

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037265.D  
 Acq On : 14 Jun 2025 17:00  
 Operator : RC/JU  
 Sample : Q2299-18  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 TT190D1-20250611

Quant Time: Jun 16 02:43:52 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:43:34 2025  
 Response via : Initial Calibration

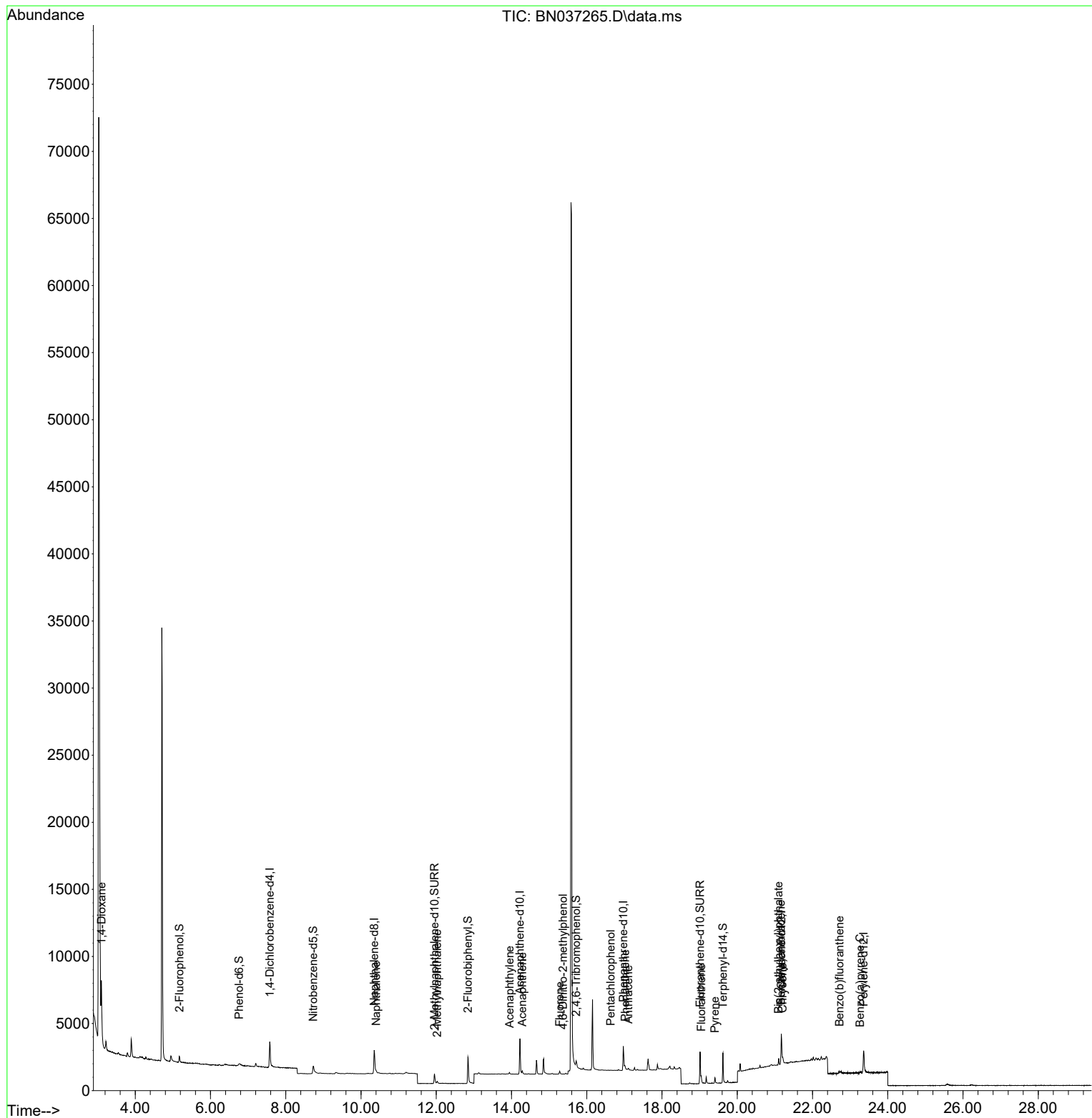
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 1132     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.351 | 136  | 2844     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1545     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.971 | 188  | 2840     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.171 | 240  | 2558     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.357 | 264  | 2398     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.177  | 112  | 341      | 0.123 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.759  | 99   | 172      | 0.059 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.728  | 82   | 798      | 0.284 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.955 | 152  | 1174     | 0.308 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.718 | 330  | 222      | 0.346 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.843 | 172  | 2041     | 0.314 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.012 | 212  | 3030     | 0.408 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.621 | 244  | 2397     | 0.415 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.104  | 88   | 2246     | 1.446 | ng    | # 89     |
| 9) Naphthalene                | 10.404 | 128  | 215      | 0.026 | ng    | # 29     |
| 12) 2-Methylnaphthalene       | 12.026 | 142  | 123      | 0.025 | ng    | # 84     |
| 16) Acenaphthylene            | 13.946 | 152  | 155      | 0.020 | ng    | 94       |
| 17) Acenaphthene              | 14.288 | 154  | 110      | 0.023 | ng    | 100      |
| 18) Fluorene                  | 15.282 | 166  | 144      | 0.023 | ng    | 94       |
| 20) 4,6-Dinitro-2-methylph... | 15.368 | 198  | 1        | 0.118 | ng    | # 8      |
| 24) Pentachlorophenol         | 16.636 | 266  | 23       | 0.022 | ng    | # 48     |
| 25) Phenanthrene              | 17.021 | 178  | 353      | 0.039 | ng    | 95       |
| 26) Anthracene                | 17.108 | 178  | 178      | 0.022 | ng    | 99       |
| 28) Fluoranthene              | 19.040 | 202  | 393      | 0.037 | ng    | # 87     |
| 30) Pyrene                    | 19.407 | 202  | 420      | 0.035 | ng    | 98       |
| 32) Benzo(a)anthracene        | 21.162 | 228  | 261      | 0.030 | ng    | # 64     |
| 33) Chrysene                  | 21.207 | 228  | 281      | 0.026 | ng    | # 71     |
| 34) Bis(2-ethylhexyl)phtha... | 21.099 | 149  | 429      | 0.067 | ng    | # 97     |
| 37) Benzo(b)fluoranthene      | 22.717 | 252  | 221      | 0.025 | ng    | # 1      |
| 39) Benzo(a)pyrene            | 23.263 | 252  | 171      | 0.022 | ng    | # 1      |
| -----                         |        |      |          |       |       |          |

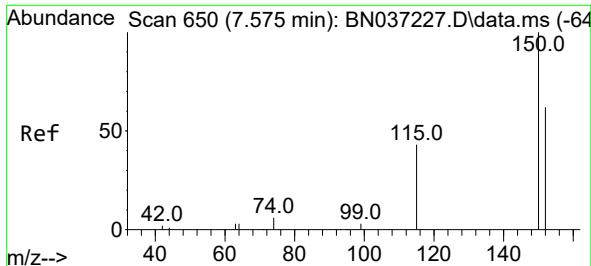
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 44 Sample Multiplier: 1

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TT190D1-20250611

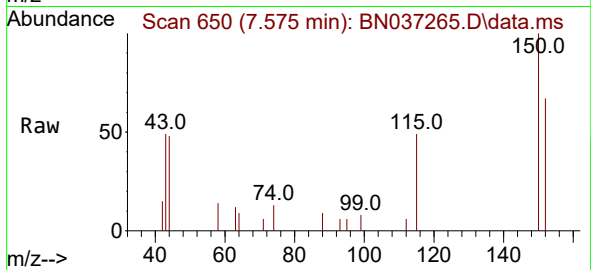
Quant Time: Jun 16 02:43:52 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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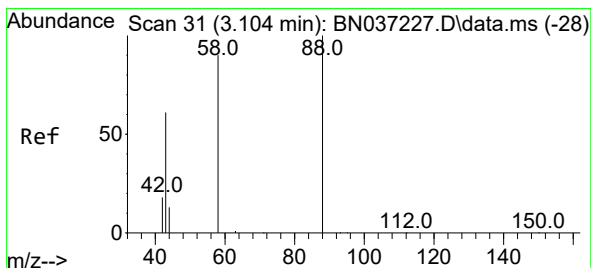
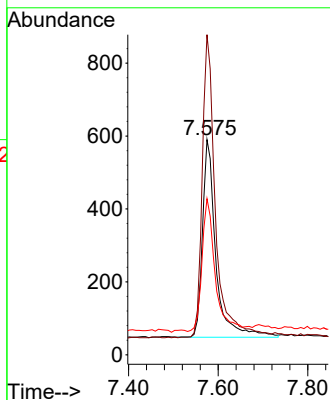
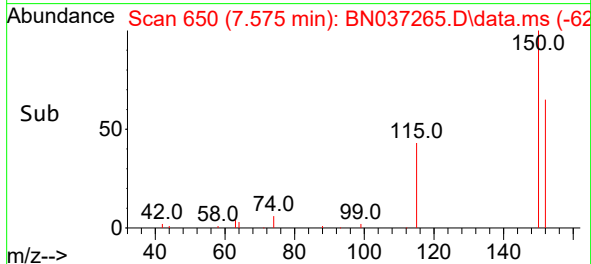


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.575 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: BN037265.D  
 Acq: 14 Jun 2025 17:00

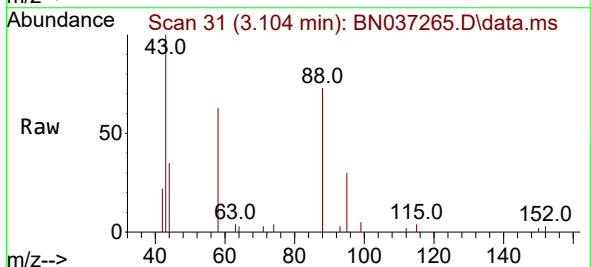
Instrument :  
 BNA\_N  
 ClientSampleId :  
 TT190D1-20250611



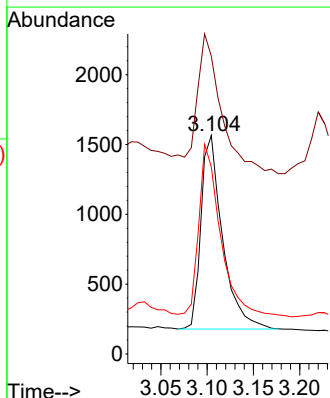
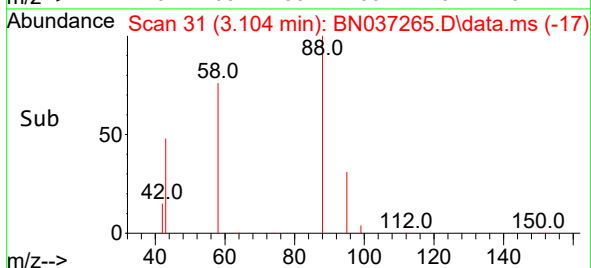
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 Ion Ratio Lower Upper  
 152 100  
 150 148.8 125.2 187.8  
 115 72.5 58.4 87.6

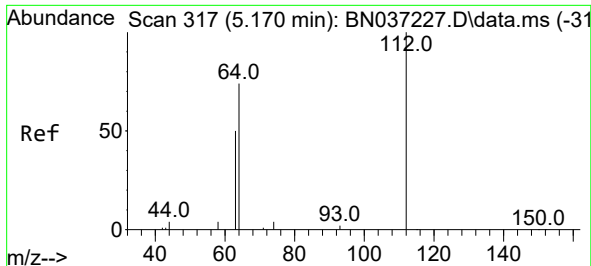


#2  
 1,4-Dioxane  
 Concen: 1.446 ng  
 RT: 3.104 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: BN037265.D  
 Acq: 14 Jun 2025 17:00



Tgt Ion: 88 Resp: 2246  
 Ion Ratio Lower Upper  
 88 100  
 43 80.4 52.6 79.0#  
 58 86.9 73.5 110.3

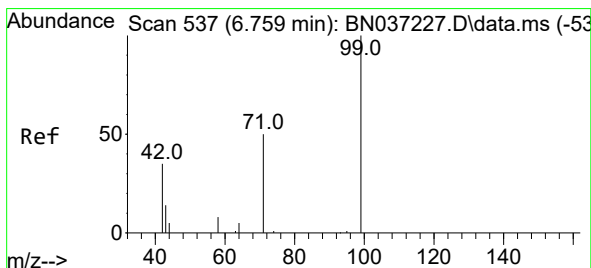
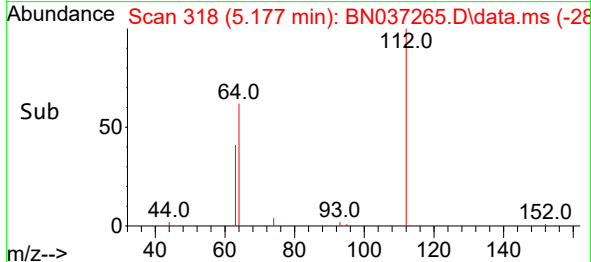
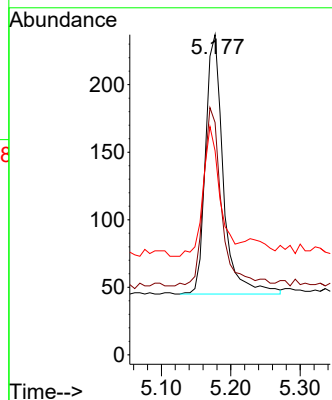
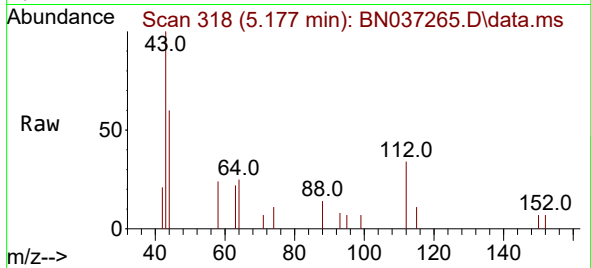




#4  
2-Fluorophenol  
Concen: 0.123 ng  
RT: 5.177 min Scan# 317  
Delta R.T. 0.007 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

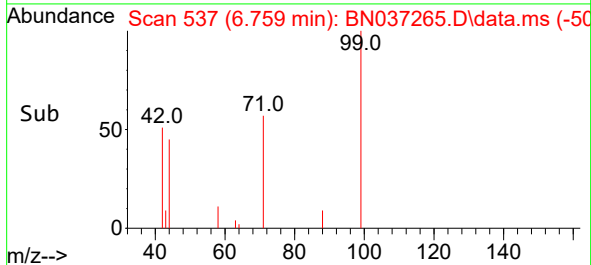
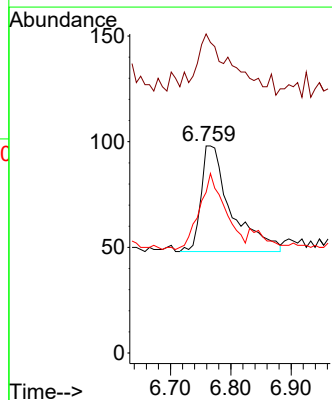
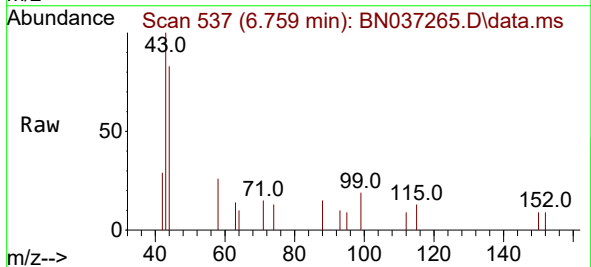
Instrument :  
BNA\_N  
ClientSampleId :  
TT190D1-20250611

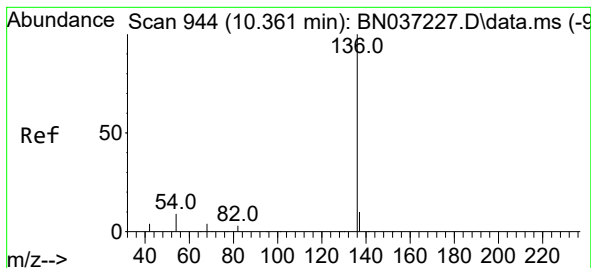
Tgt Ion:112 Resp: 341  
Ion Ratio Lower Upper  
112 100  
64 72.1 57.2 85.8  
63 48.1 39.8 59.6



#5  
Phenol-d6  
Concen: 0.059 ng  
RT: 6.759 min Scan# 537  
Delta R.T. 0.000 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

Tgt Ion: 99 Resp: 172  
Ion Ratio Lower Upper  
99 100  
42 65.7 36.2 54.4#  
71 61.6 42.4 63.6





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.351 min Scan# 944

Delta R.T. -0.010 min

Lab File: BN037265.D

Acq: 14 Jun 2025 17:00

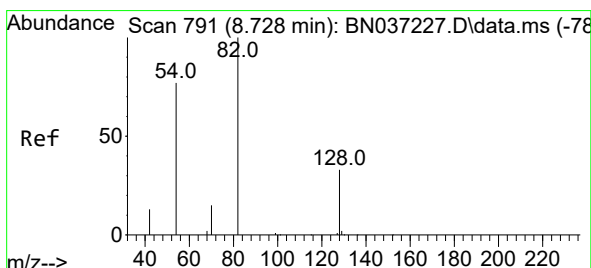
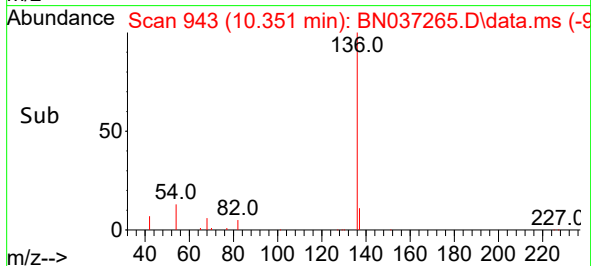
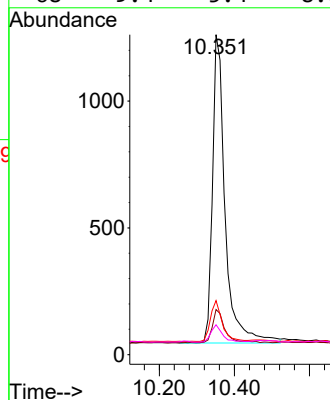
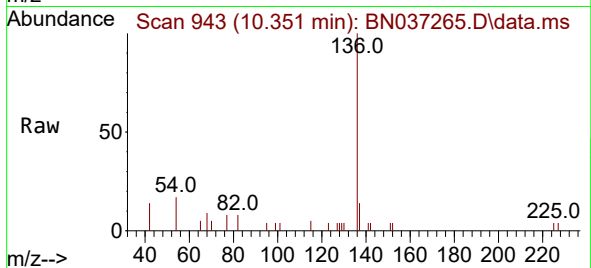
Instrument :

BNA\_N

ClientSampleId :

TT190D1-20250611

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 2844  |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 14.1  | 10.6  | 15.8  |
| 54        | 16.9  | 9.2   | 13.8# |
| 68        | 9.4   | 5.4   | 8.0#  |



#8

Nitrobenzene-d5

Concen: 0.284 ng

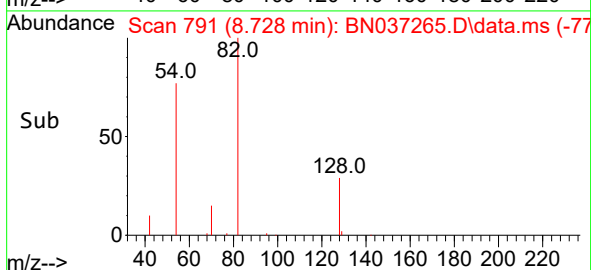
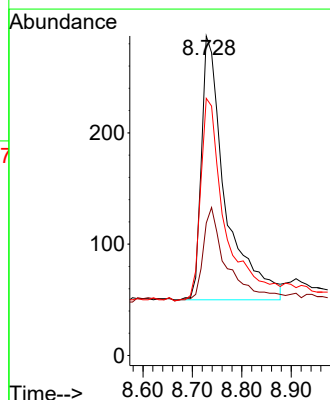
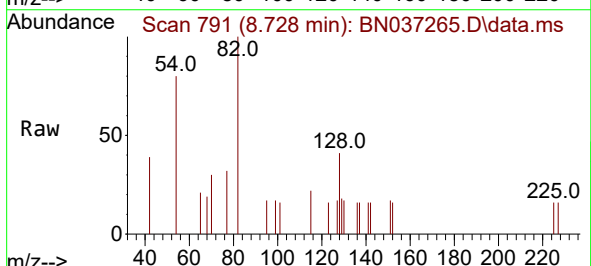
RT: 8.728 min Scan# 791

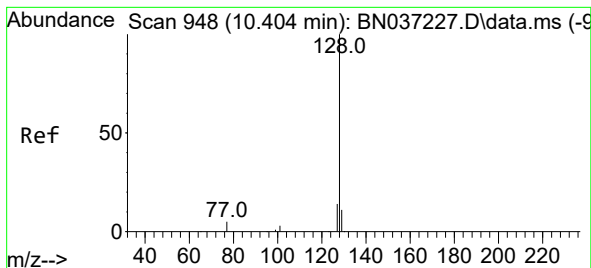
Delta R.T. 0.000 min

Lab File: BN037265.D

Acq: 14 Jun 2025 17:00

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 798  |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 41.5  | 31.2  | 46.8 |
| 54        | 80.5  | 63.3  | 94.9 |





#9

Naphthalene

Concen: 0.026 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN037265.D

Acq: 14 Jun 2025 17:00

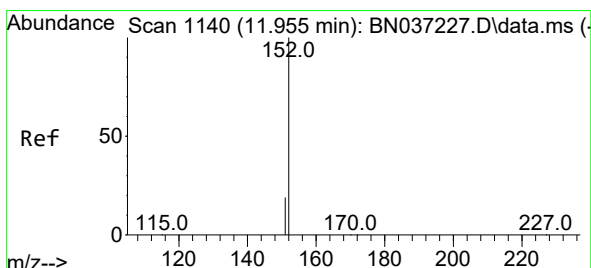
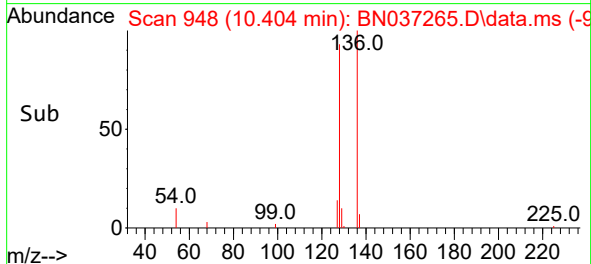
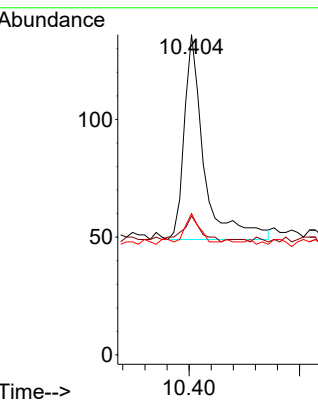
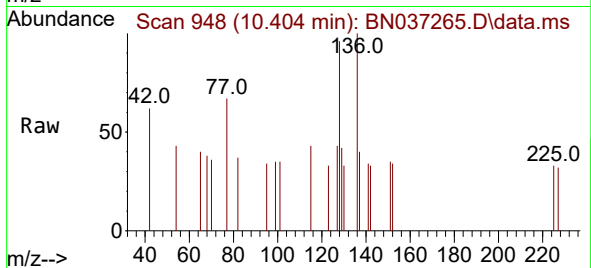
Instrument :

BNA\_N

ClientSampleId :

TT190D1-20250611

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 215   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 43.4  | 10.7  | 16.1# |
| 127      | 44.1  | 12.6  | 19.0# |



#11

2-Methylnaphthalene-d10

Concen: 0.308 ng

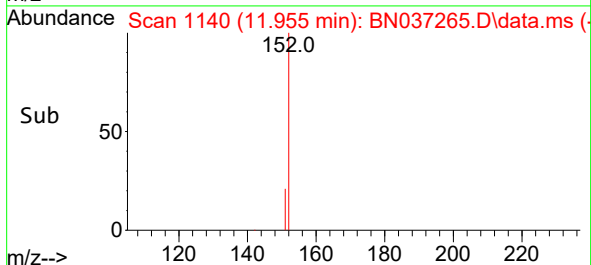
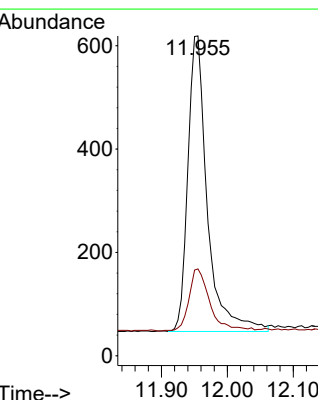
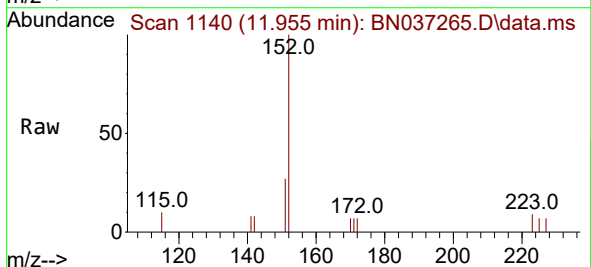
RT: 11.955 min Scan# 1140

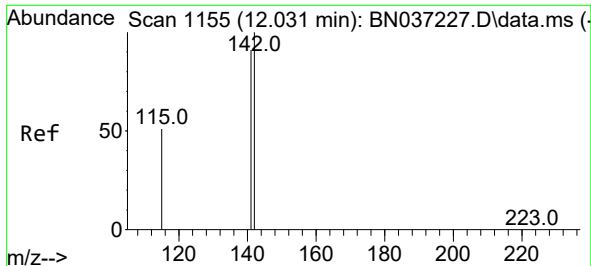
Delta R.T. 0.000 min

Lab File: BN037265.D

Acq: 14 Jun 2025 17:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 1174  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 22.6  | 17.9  | 26.9  |

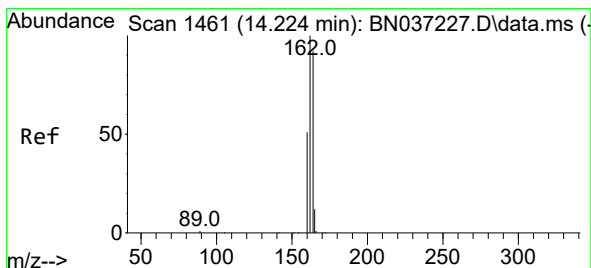
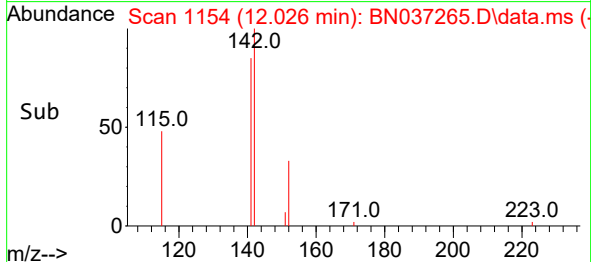
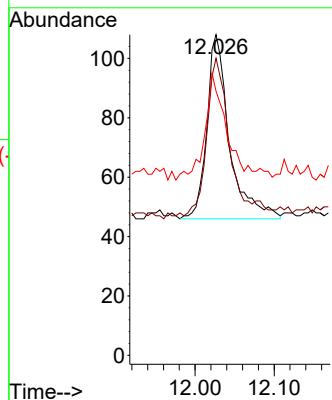
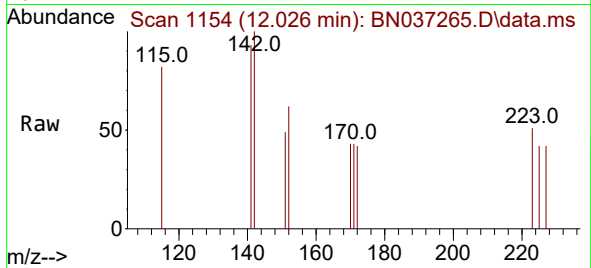




#12  
2-Methylnaphthalene  
Concen: 0.025 ng  
RT: 12.026 min Scan# 1154  
Delta R.T. -0.005 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

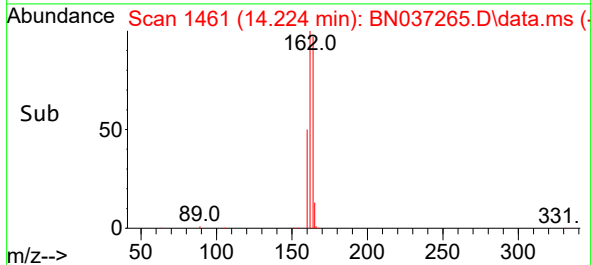
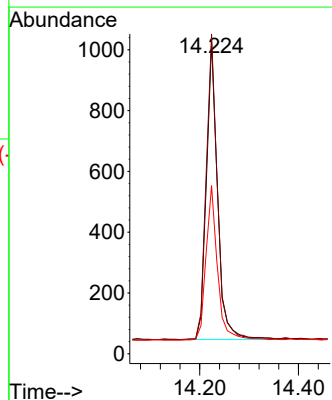
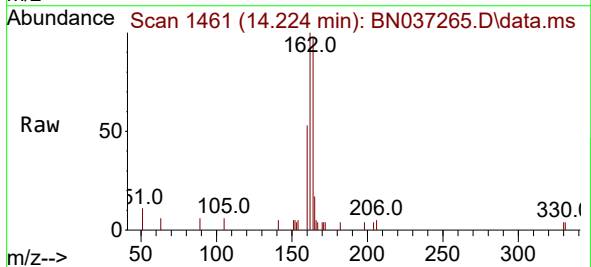
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TT190D1-20250611

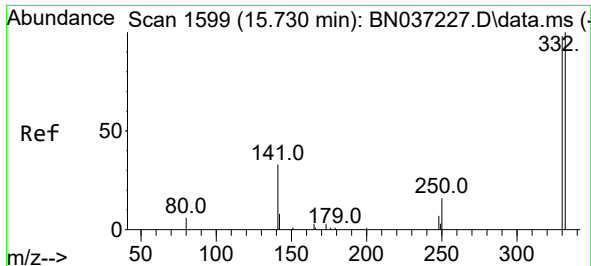
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Ion Ratio Lower Upper  
142 100  
141 92.6 73.0 109.6  
115 82.4 43.3 64.9#



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.224 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

Tgt Ion:164 Resp: 1545  
Ion Ratio Lower Upper  
164 100  
162 102.4 86.7 130.1  
160 53.8 45.8 68.6

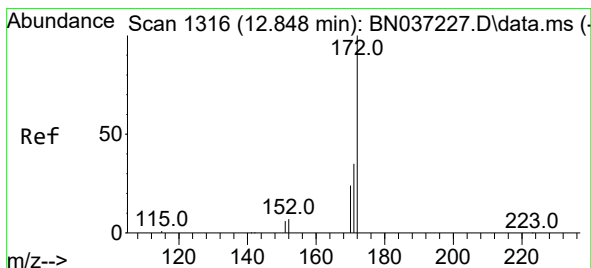
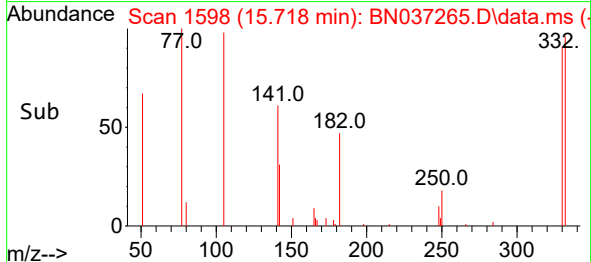
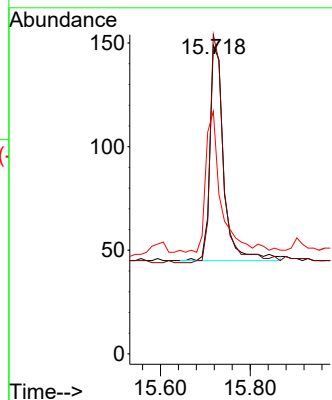
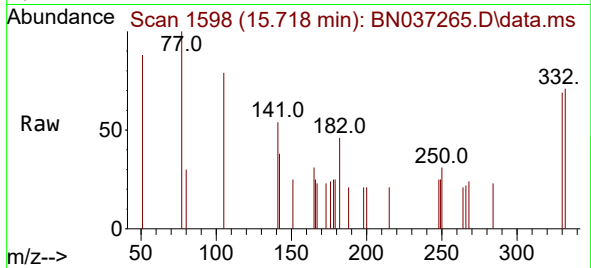




#14  
2,4,6-Tribromophenol  
Concen: 0.346 ng  
RT: 15.718 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

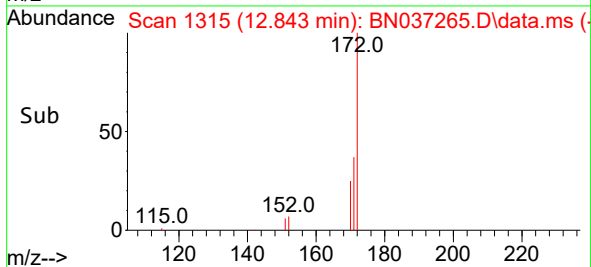
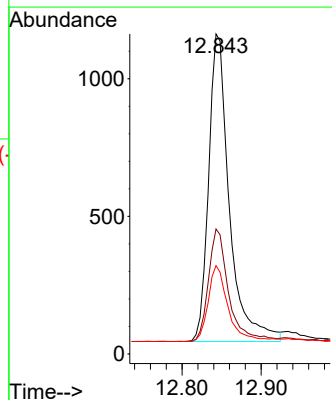
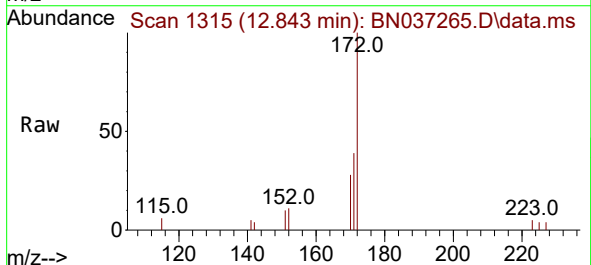
Instrument :  
BNA\_N  
ClientSampleId :  
TT190D1-20250611

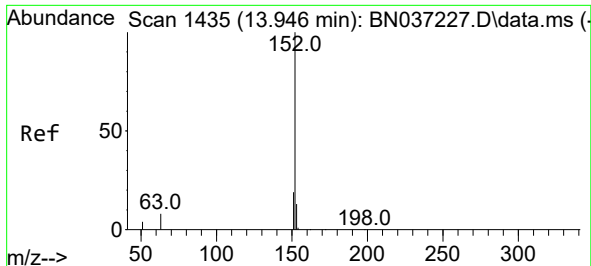
Tgt Ion:330 Resp: 222  
Ion Ratio Lower Upper  
330 100  
332 101.8 74.9 112.3  
141 69.4 45.1 67.7#



#15  
2-Fluorobiphenyl  
Concen: 0.314 ng  
RT: 12.843 min Scan# 1315  
Delta R.T. -0.005 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

Tgt Ion:172 Resp: 2041  
Ion Ratio Lower Upper  
172 100  
171 39.0 29.8 44.8  
170 27.6 21.1 31.7

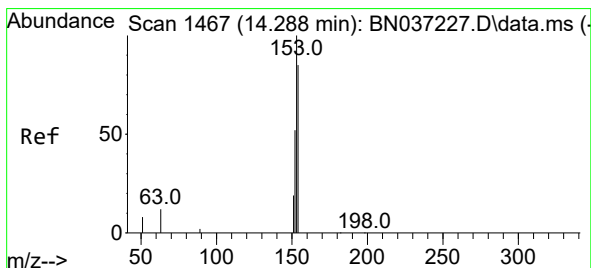
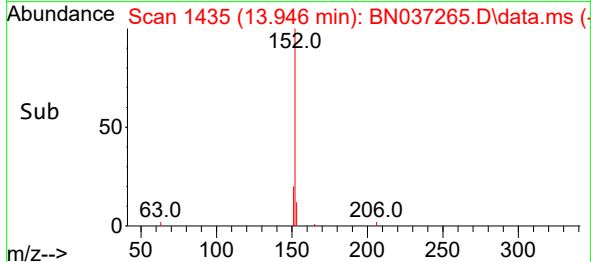
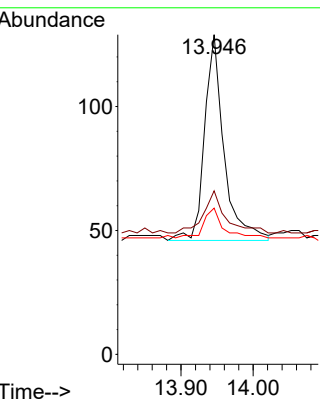
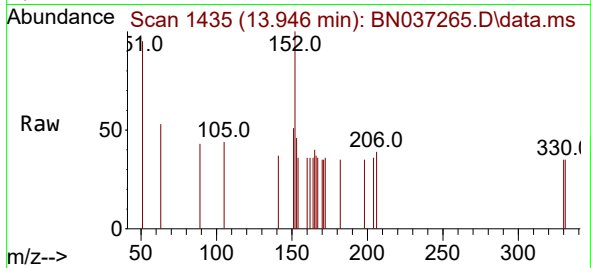




#16  
Acenaphthylene  
Concen: 0.020 ng  
RT: 13.946 min Scan# 1435  
Delta R.T. 0.000 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

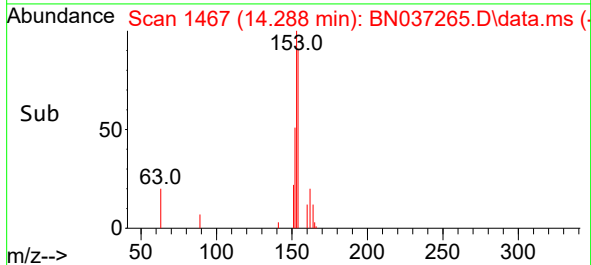
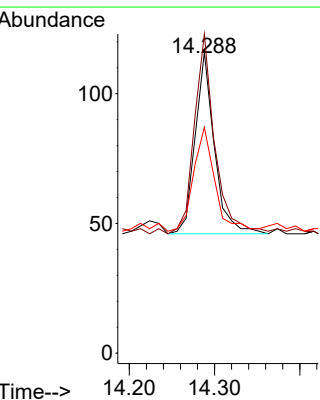
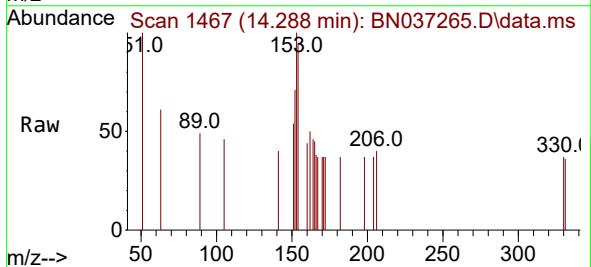
Instrument :  
BNA\_N  
ClientSampleId :  
TT190D1-20250611

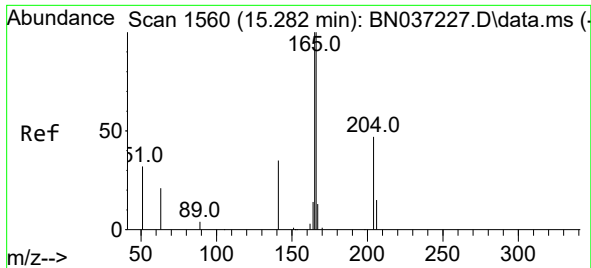
Tgt Ion:152 Resp: 155  
Ion Ratio Lower Upper  
152 100  
151 23.2 15.7 23.5  
153 14.8 10.7 16.1



#17  
Acenaphthene  
Concen: 0.023 ng  
RT: 14.288 min Scan# 1467  
Delta R.T. 0.000 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

Tgt Ion:154 Resp: 110  
Ion Ratio Lower Upper  
154 100  
153 118.2 94.6 141.8  
152 62.7 49.6 74.4

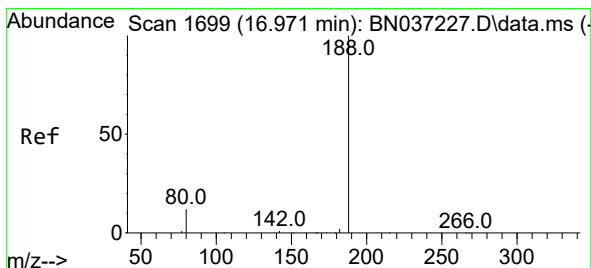
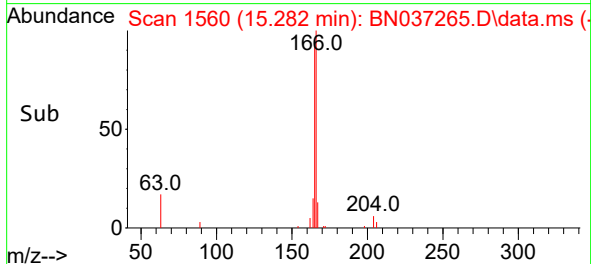
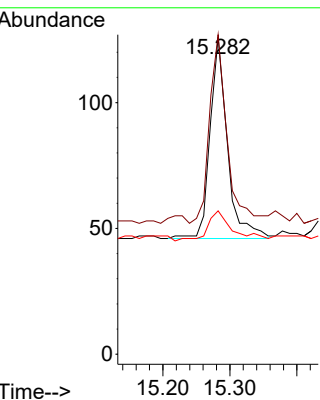
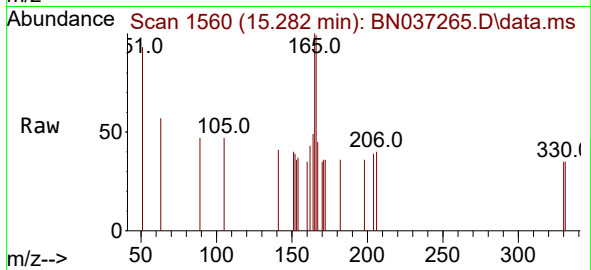




#18  
Fluorene  
Concen: 0.023 ng  
RT: 15.282 min Scan# 1560  
Delta R.T. 0.000 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

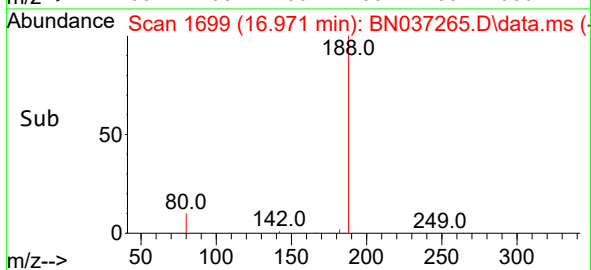
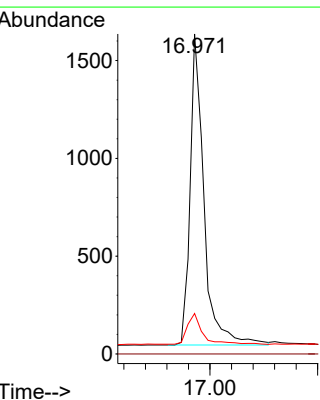
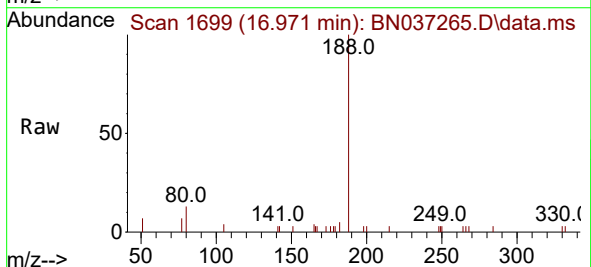
Instrument :  
BNA\_N  
ClientSampleId :  
TT190D1-20250611

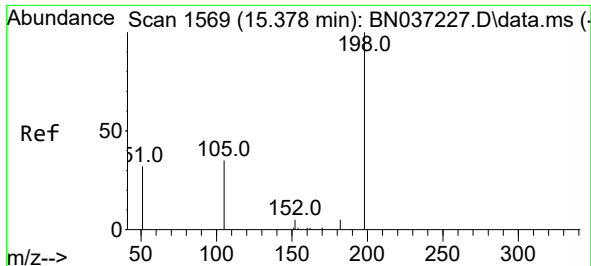
Tgt Ion:166 Resp: 144  
Ion Ratio Lower Upper  
166 100  
165 93.8 79.8 119.6  
167 16.0 10.8 16.2



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.971 min Scan# 1699  
Delta R.T. 0.000 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

Tgt Ion:188 Resp: 2840  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 12.7 12.2 18.4

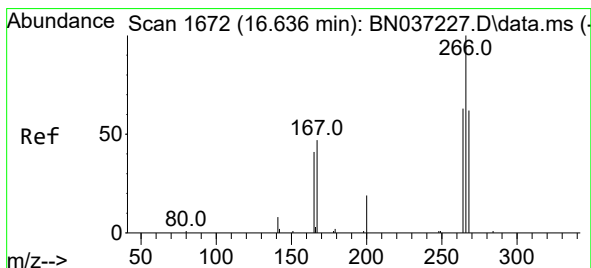
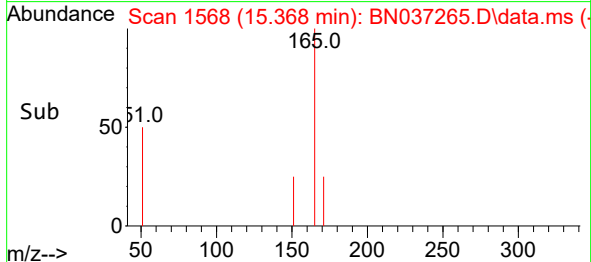
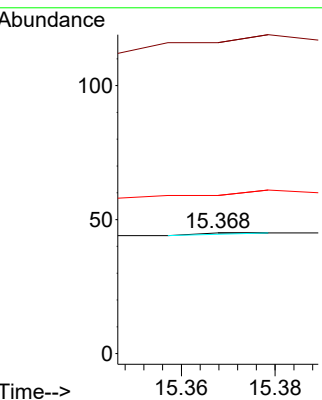
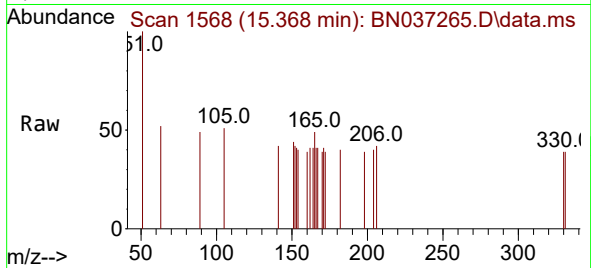




#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.118 ng  
RT: 15.368 min Scan# 1568  
Delta R.T. -0.010 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

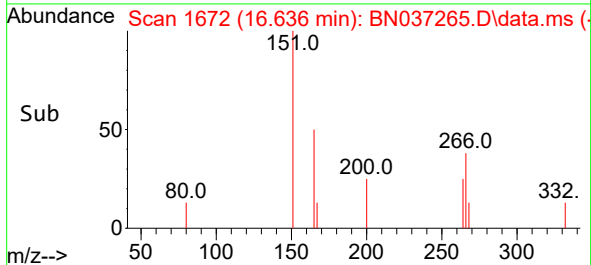
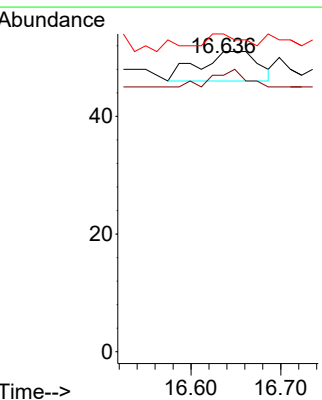
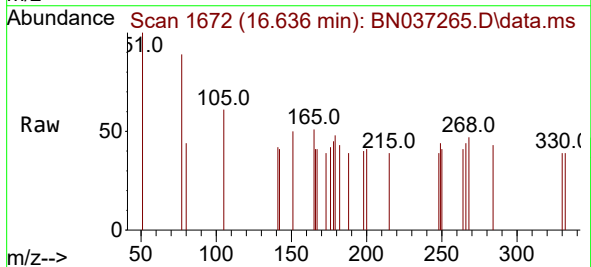
Instrument :  
BNA\_N  
ClientSampleId :  
TT190D1-20250611

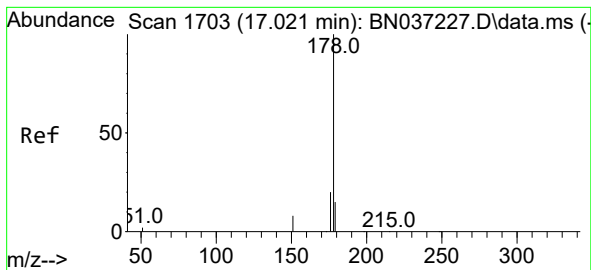
Tgt Ion:198 Resp: 1  
Ion Ratio Lower Upper  
198 100  
51 257.8 111.2 166.8#  
105 131.1 54.0 81.0#



#24  
Pentachlorophenol  
Concen: 0.022 ng  
RT: 16.636 min Scan# 1672  
Delta R.T. 0.000 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

Tgt Ion:266 Resp: 23  
Ion Ratio Lower Upper  
266 100  
264 47.8 49.2 73.8#  
268 0.0 53.4 80.2#





#25

Phenanthrene

Concen: 0.039 ng

RT: 17.021 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN037265.D

Acq: 14 Jun 2025 17:00

Instrument :

BNA\_N

ClientSampleId :

TT190D1-20250611

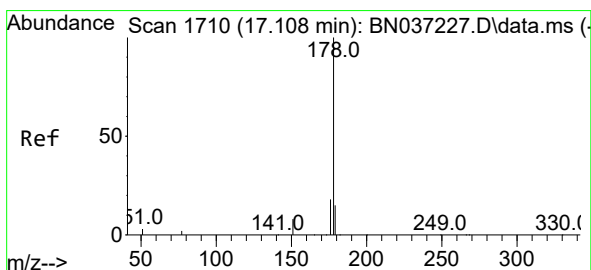
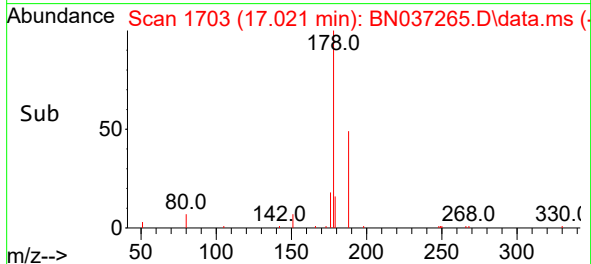
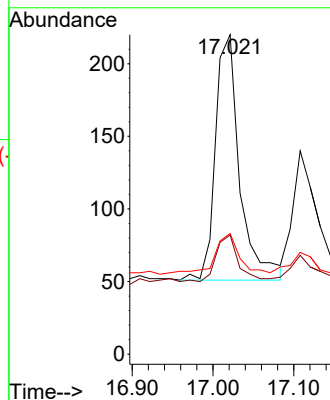
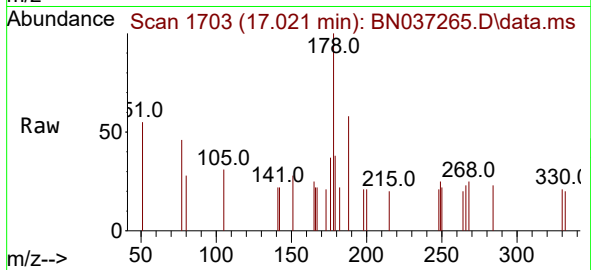
Tgt Ion:178 Resp: 353

Ion Ratio Lower Upper

178 100

176 17.0 16.3 24.5

179 17.0 12.6 18.8



#26

Anthracene

Concen: 0.022 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037265.D

Acq: 14 Jun 2025 17:00

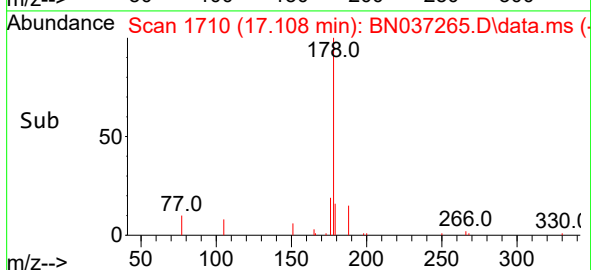
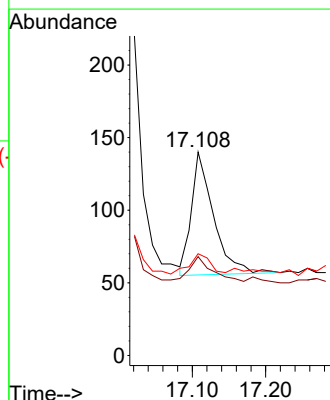
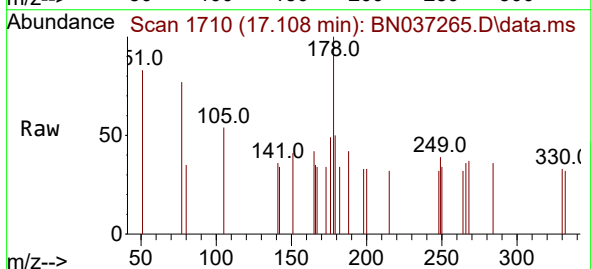
Tgt Ion:178 Resp: 178

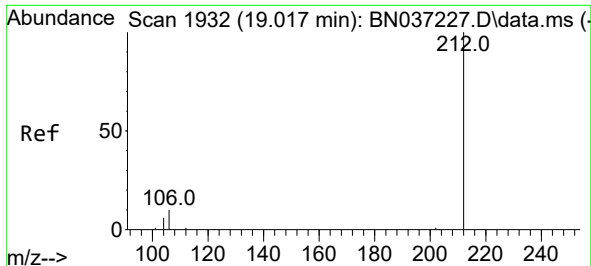
Ion Ratio Lower Upper

178 100

176 19.7 15.1 22.7

179 15.7 12.4 18.6

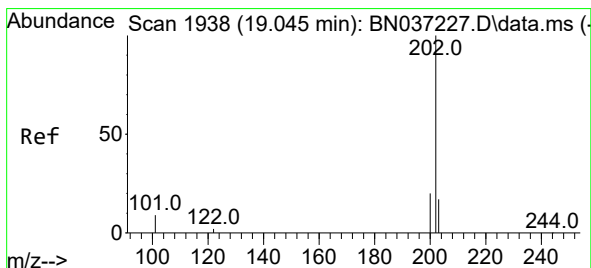
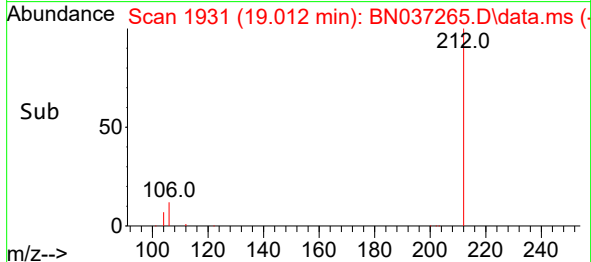
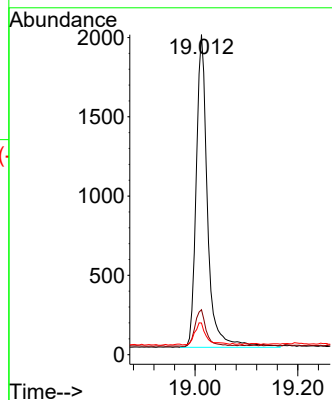
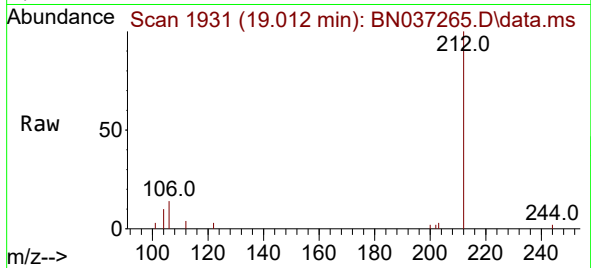




#27  
Fluoranthene-d10  
Concen: 0.408 ng  
RT: 19.012 min Scan# 1932  
Delta R.T. -0.004 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

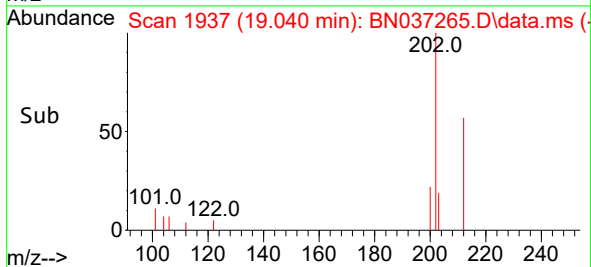
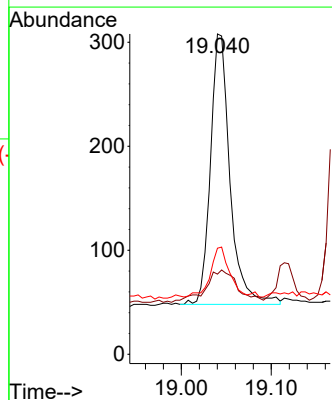
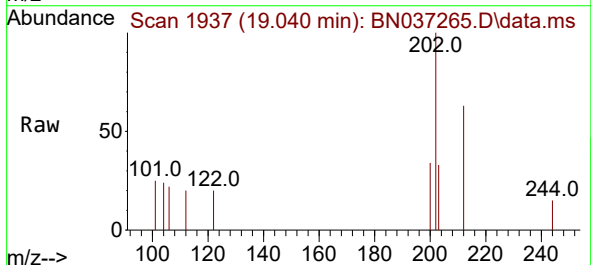
Instrument :  
BNA\_N  
ClientSampleId :  
TT190D1-20250611

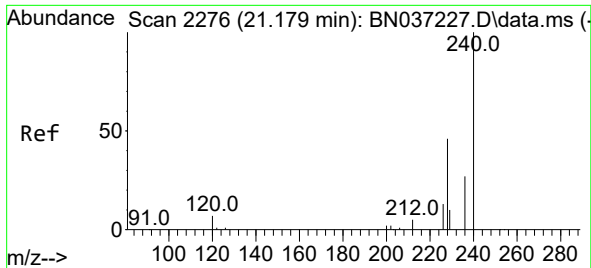
Tgt Ion:212 Resp: 3030  
Ion Ratio Lower Upper  
212 100  
106 11.9 9.3 13.9  
104 7.2 5.7 8.5



#28  
Fluoranthene  
Concen: 0.037 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.004 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

Tgt Ion:202 Resp: 393  
Ion Ratio Lower Upper  
202 100  
101 19.3 7.1 10.7#  
203 18.3 13.0 19.6

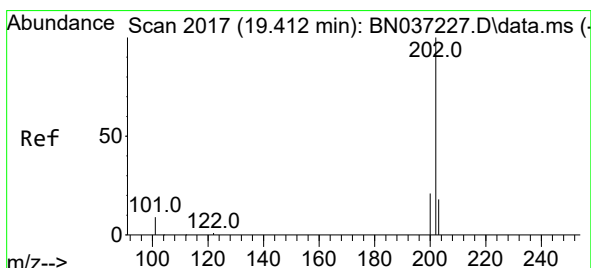
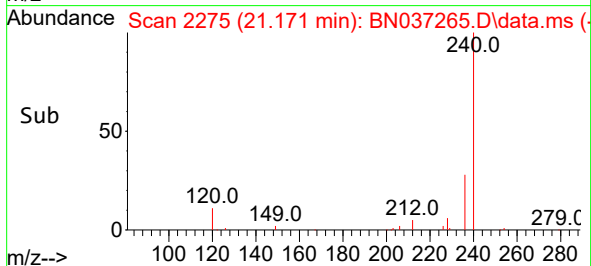
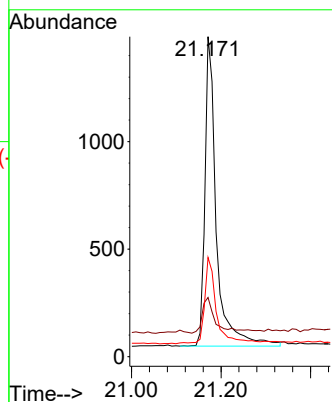
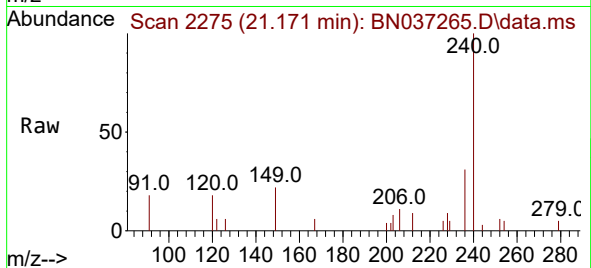




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.171 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

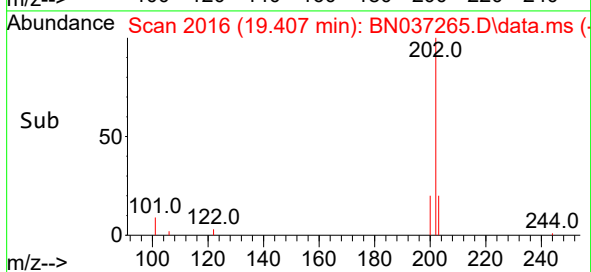
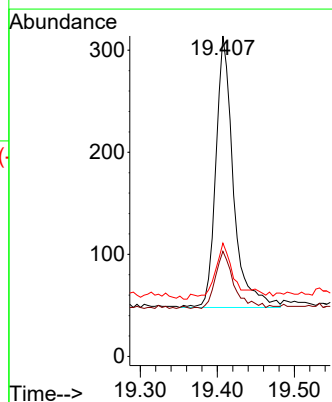
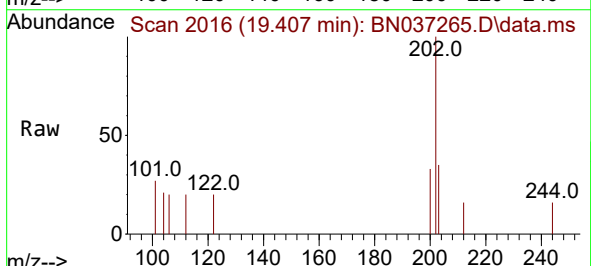
Instrument :  
BNA\_N  
ClientSampleId :  
TT190D1-20250611

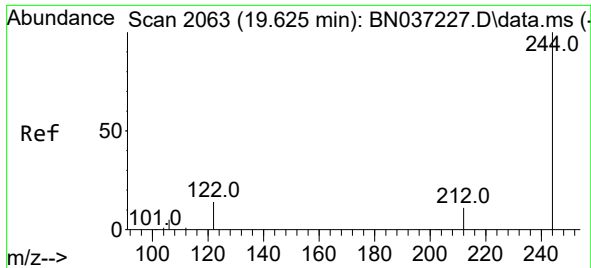
Tgt Ion:240 Resp: 2558  
Ion Ratio Lower Upper  
240 100  
120 18.5 11.3 16.9#  
236 31.0 24.4 36.6



#30  
Pyrene  
Concen: 0.035 ng  
RT: 19.407 min Scan# 2016  
Delta R.T. -0.004 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

Tgt Ion:202 Resp: 420  
Ion Ratio Lower Upper  
202 100  
200 22.4 17.2 25.8  
203 17.4 14.3 21.5

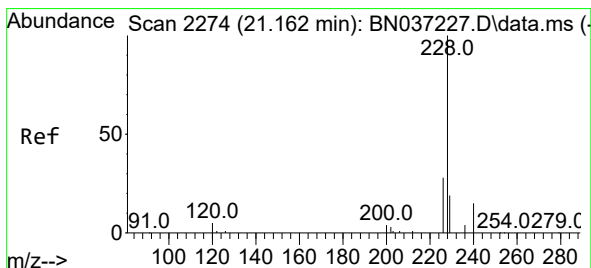
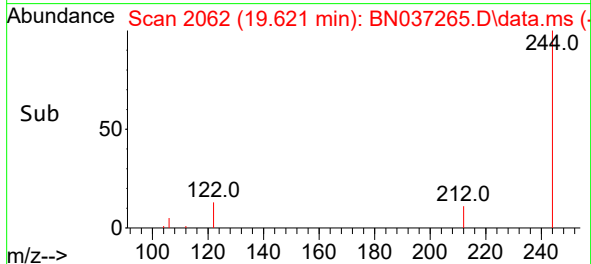
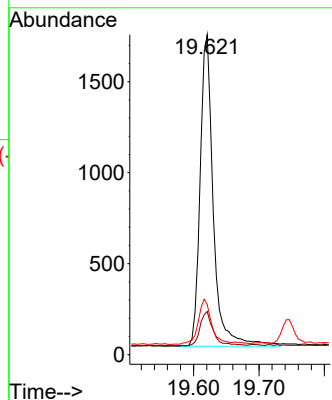
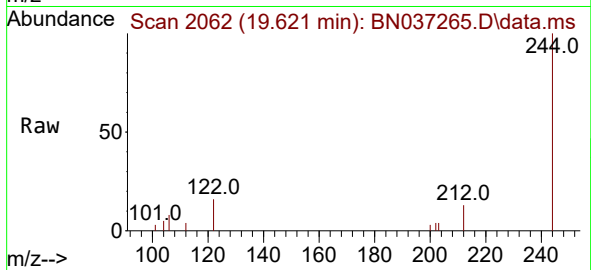




#31  
 Terphenyl-d14  
 Concen: 0.415 ng  
 RT: 19.621 min Scan# 2063  
 Delta R.T. -0.004 min  
 Lab File: BN037265.D  
 Acq: 14 Jun 2025 17:00

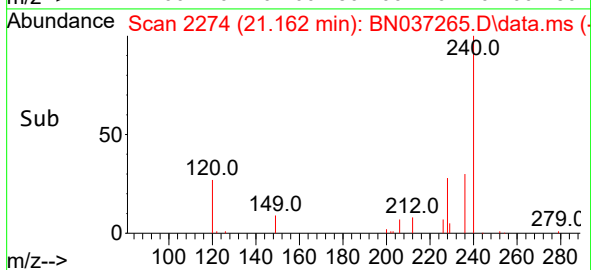
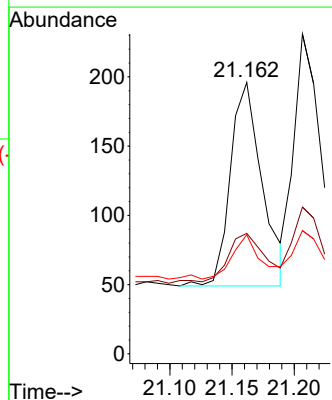
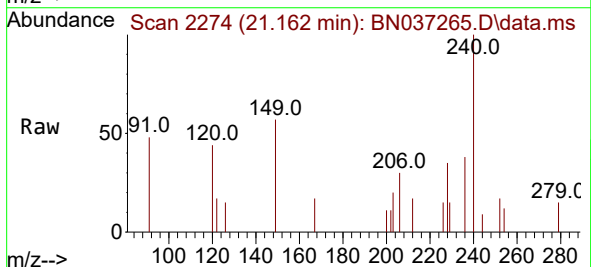
Instrument :  
 BNA\_N  
 ClientSampleId :  
 TT190D1-20250611

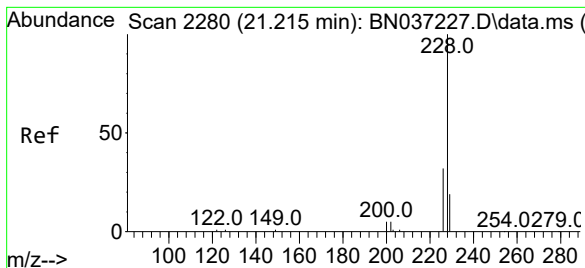
Tgt Ion:244 Resp: 2397  
 Ion Ratio Lower Upper  
 244 100  
 212 13.5 12.2 18.2  
 122 15.6 14.3 21.5



#32  
 Benzo(a)anthracene  
 Concen: 0.030 ng  
 RT: 21.162 min Scan# 2274  
 Delta R.T. 0.000 min  
 Lab File: BN037265.D  
 Acq: 14 Jun 2025 17:00

Tgt Ion:228 Resp: 261  
 Ion Ratio Lower Upper  
 228 100  
 226 44.4 23.8 35.8#  
 229 43.9 17.0 25.4#





#33

Chrysene

Concen: 0.026 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037265.D

Acq: 14 Jun 2025 17:00

Instrument :

BNA\_N

ClientSampleId :

TT190D1-20250611

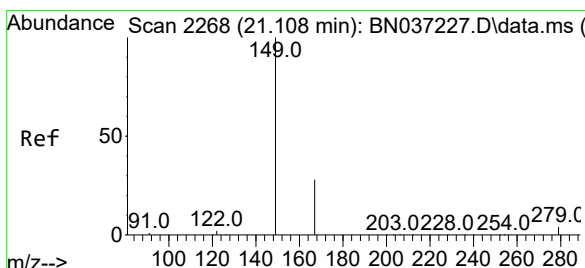
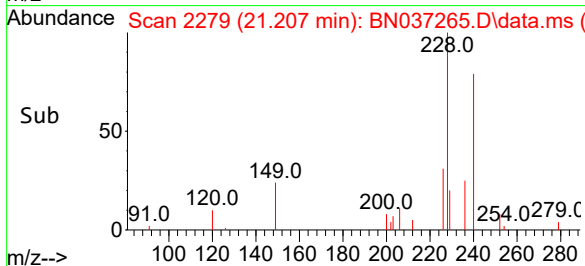
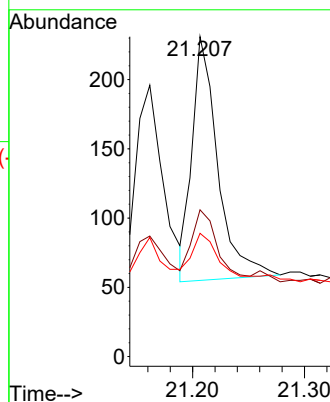
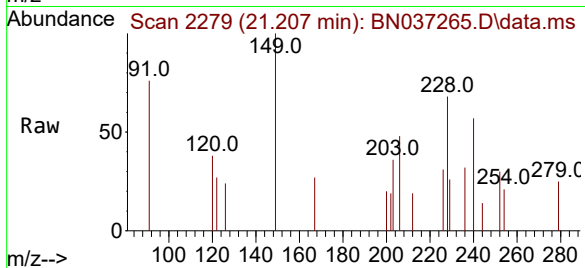
Tgt Ion:228 Resp: 281

Ion Ratio Lower Upper

228 100

226 45.9 25.8 38.6#

229 38.5 17.0 25.4#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.067 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037265.D

Acq: 14 Jun 2025 17:00

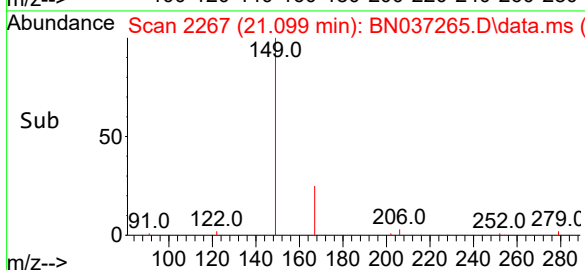
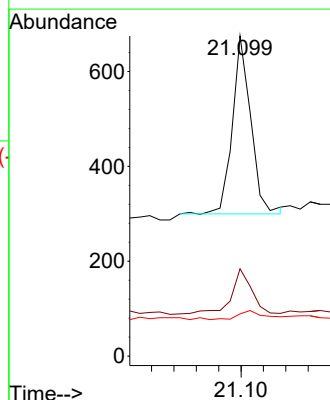
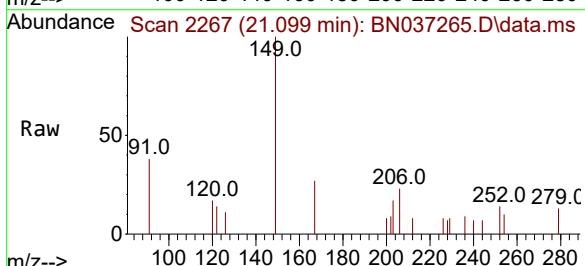
Tgt Ion:149 Resp: 429

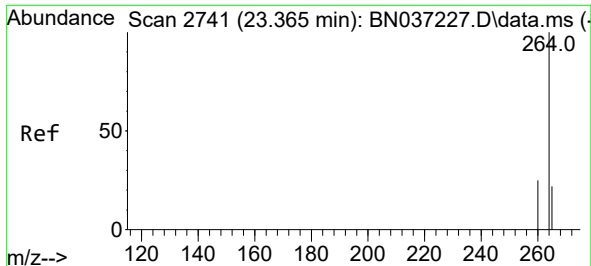
Ion Ratio Lower Upper

149 100

167 27.5 21.3 31.9

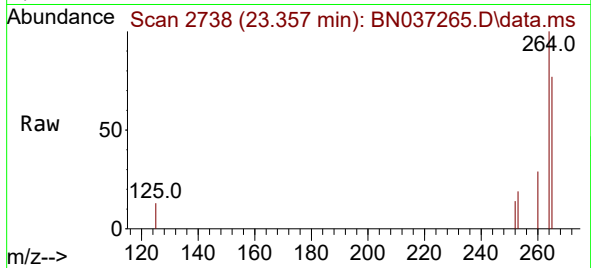
279 7.0 3.3 4.9#



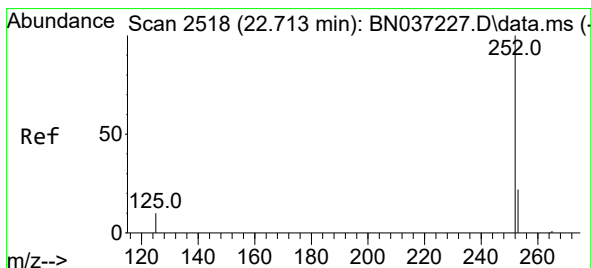
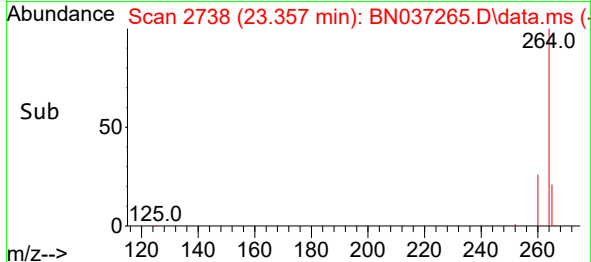
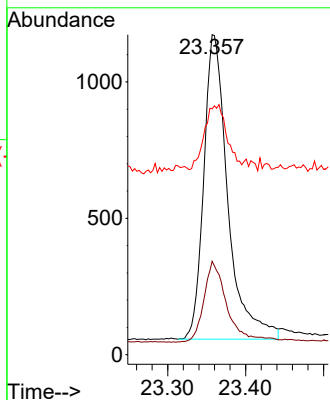


#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.357 min Scan# 21  
 Delta R.T. -0.009 min  
 Lab File: BN037265.D  
 Acq: 14 Jun 2025 17:00

Instrument :  
 BNA\_N  
 ClientSampleId :  
 TT190D1-20250611

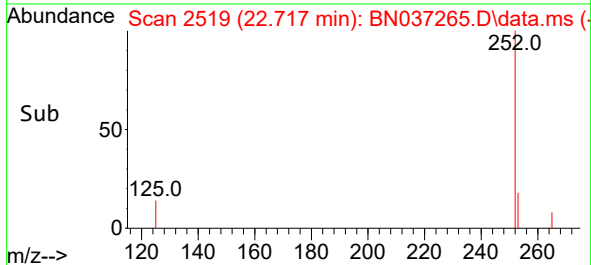
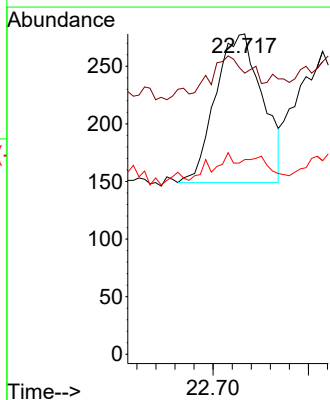
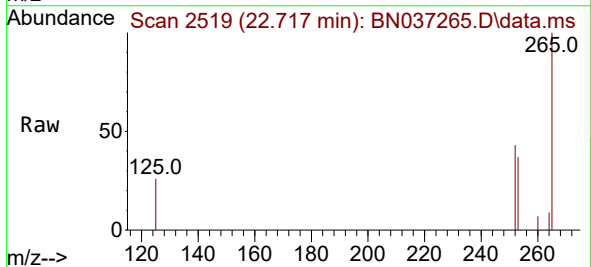


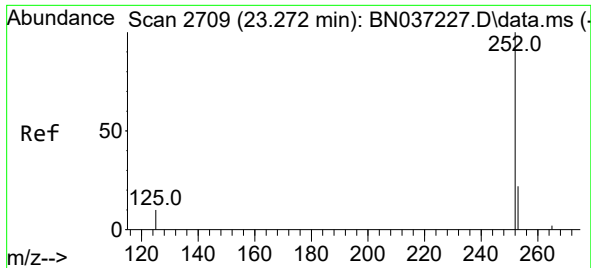
Tgt Ion:264 Resp: 2398  
 Ion Ratio Lower Upper  
 264 100  
 260 29.2 22.8 34.2  
 265 76.8 66.4 99.6



#37  
 Benzo(b)fluoranthene  
 Concen: 0.025 ng  
 RT: 22.717 min Scan# 2519  
 Delta R.T. 0.003 min  
 Lab File: BN037265.D  
 Acq: 14 Jun 2025 17:00

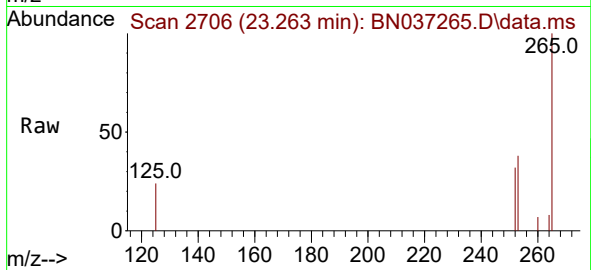
Tgt Ion:252 Resp: 221  
 Ion Ratio Lower Upper  
 252 100  
 253 87.8 24.9 37.3#  
 125 60.8 12.9 19.3#





#39  
Benzo(a)pyrene  
Concen: 0.022 ng  
RT: 23.263 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037265.D  
Acq: 14 Jun 2025 17:00

Instrument :  
BNA\_N  
ClientSampleId :  
TT190D1-20250611



Tgt Ion:252 Resp: 171  
Ion Ratio Lower Upper  
252 100  
253 119.5 29.4 44.2#  
125 74.4 16.2 24.2#

