

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN040325\  
 Data File : BN036819.D  
 Acq On : 03 Apr 2025 13:00  
 Operator : RC/JU  
 Sample : Q1690-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW112010

Quant Time: Apr 03 13:29:52 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN031025.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 10 16:06:28 2025  
 Response via : Initial Calibration

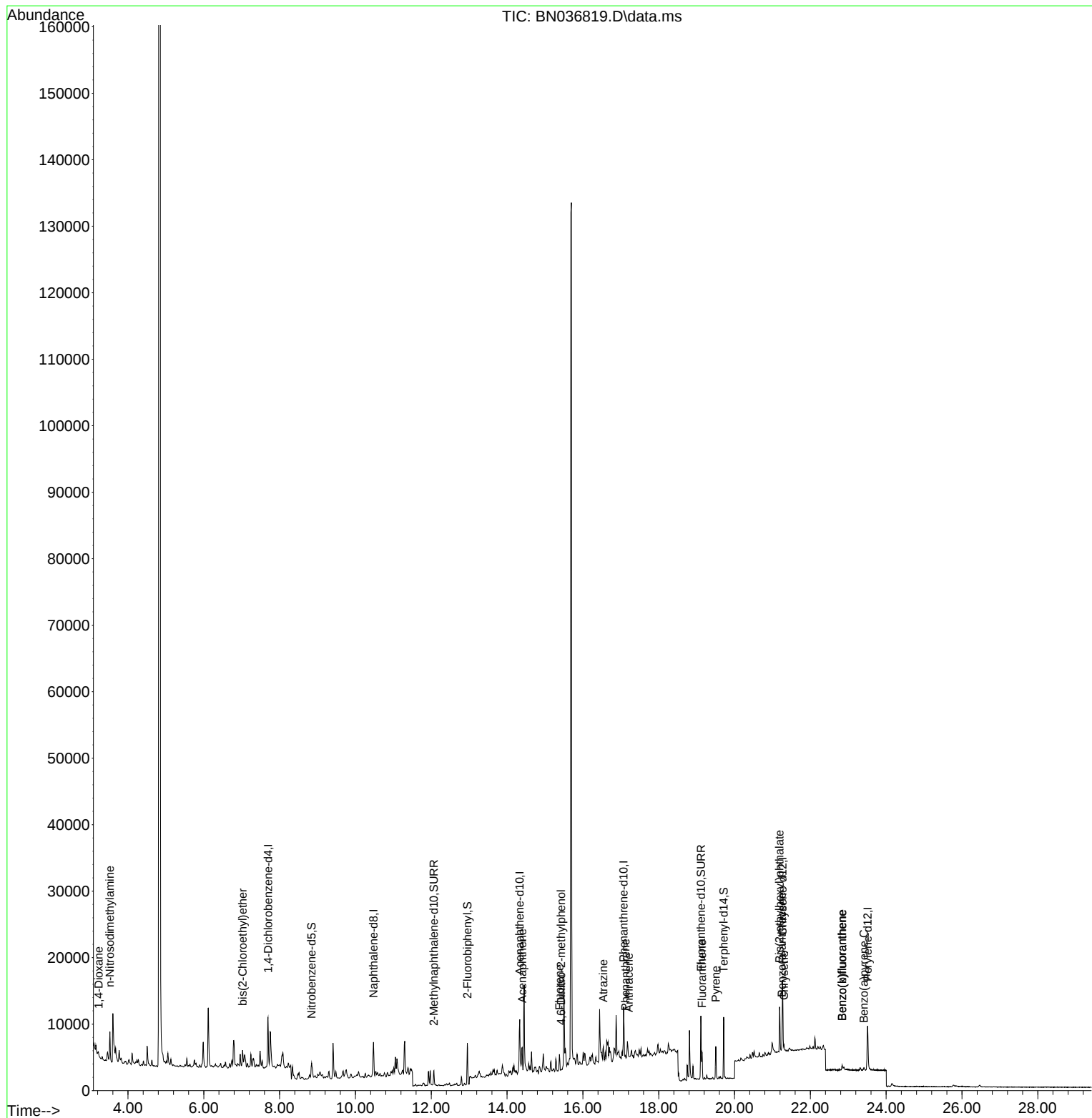
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.695  | 152  | 2445     | 0.400 | ng    | -0.03    |
| 7) Naphthalene-d8             | 10.477 | 136  | 6318     | 0.400 | ng    | -0.03    |
| 13) Acenaphthene-d10          | 14.334 | 164  | 4484     | 0.400 | ng    | -0.03    |
| 19) Phenanthrene-d10          | 17.074 | 188  | 9360     | 0.400 | ng    | #-0.04   |
| 29) Chrysene-d12              | 21.268 | 240  | 9514     | 0.400 | ng    | -0.03    |
| 35) Perylene-d12              | 23.510 | 264  | 8772     | 0.400 | ng    | #-0.04   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 23       | 0.004 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.865  | 99   | 15       | 0.002 | ng    | -0.04    |
| 8) Nitrobenzene-d5            | 8.843  | 82   | 1931     | 0.281 | ng    | -0.03    |
| 11) 2-Methylnaphthalene-d10   | 12.070 | 152  | 3100     | 0.330 | ng    | -0.04    |
| 14) 2,4,6-Tribromophenol      | 15.820 | 330  | 16       | 0.008 | ng    | -0.04    |
| 15) 2-Fluorobiphenyl          | 12.953 | 172  | 6361     | 0.244 | ng    | -0.04    |
| 27) Fluoranthene-d10          | 19.113 | 212  | 10017    | 0.418 | ng    | -0.03    |
| 31) Terphenyl-d14             | 19.712 | 244  | 8290     | 0.364 | ng    | -0.03    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.225  | 88   | 146      | 0.054 | ng    | # 1      |
| 3) n-Nitrosodimethylamine     | 3.521  | 42   | 629      | 0.115 | ng    | # 20     |
| 6) bis(2-Chloroethyl)ether    | 7.024  | 93   | 4213     | 0.579 | ng    | # 23     |
| 17) Acenaphthene              | 14.398 | 154  | 1948     | 0.141 | ng    | # 98     |
| 18) Fluorene                  | 15.382 | 166  | 1289     | 0.069 | ng    | # 96     |
| 20) 4,6-Dinitro-2-methylph... | 15.425 | 198  | 19       | 0.154 | ng    | # 1      |
| 23) Atrazine                  | 16.540 | 200  | 166      | 0.035 | ng    | # 1      |
| 25) Phenanthrene              | 17.124 | 178  | 781      | 0.028 | ng    | # 70     |
| 26) Anthracene                | 17.211 | 178  | 591      | 0.023 | ng    | # 67     |
| 28) Fluoranthene              | 19.141 | 202  | 3419     | 0.108 | ng    | # 97     |
| 30) Pyrene                    | 19.508 | 202  | 4385     | 0.094 | ng    | # 95     |
| 32) Benzo(a)anthracene        | 21.250 | 228  | 845      | 0.026 | ng    | # 45     |
| 33) Chrysene                  | 21.304 | 228  | 732      | 0.020 | ng    | # 37     |
| 34) Bis(2-ethylhexyl)phtha... | 21.187 | 149  | 6479     | 0.275 | ng    | # 90     |
| 37) Benzo(b)fluoranthene      | 22.838 | 252  | 950      | 0.030 | ng    | # 1      |
| 38) Benzo(k)fluoranthene      | 22.838 | 252  | 950      | 0.028 | ng    | # 1      |
| 39) Benzo(a)pyrene            | 23.411 | 252  | 566      | 0.021 | ng    | # 1      |

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

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Operator : RC/JU  
Sample : Q1690-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Quant Time: Apr 03 13:29:52 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN031025.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 10 16:06:28 2025  
Response via : Initial Calibration

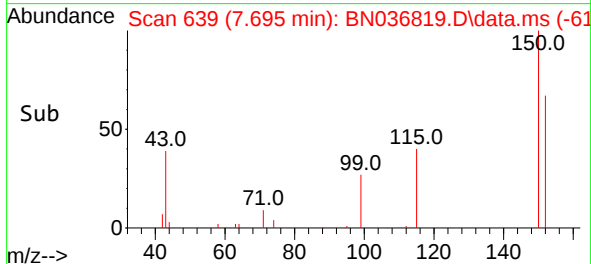
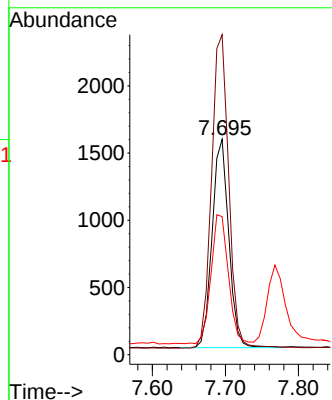
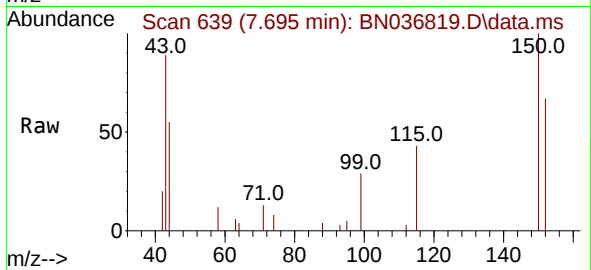




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.695 min Scan# 61  
 Delta R.T. -0.029 min  
 Lab File: BN036819.D  
 Acq: 03 Apr 2025 13:00

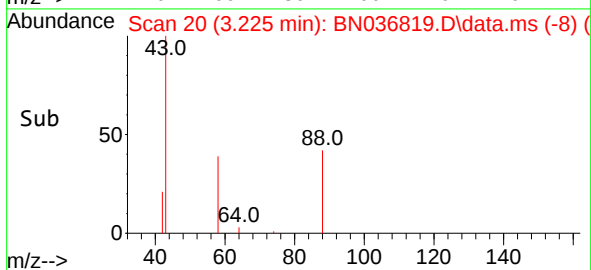
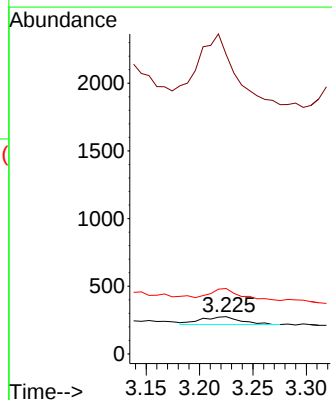
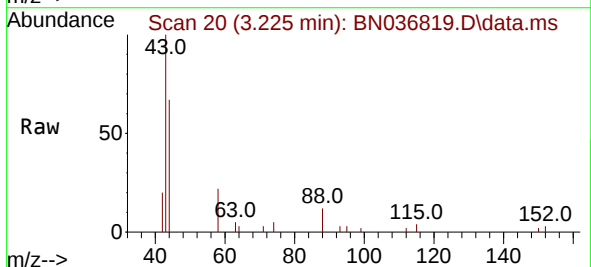
Instrument :  
 BNA\_N  
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 MW112010

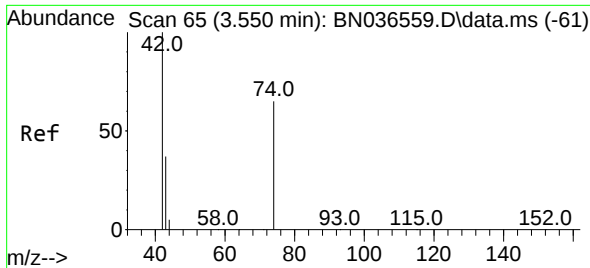
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|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 2445  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 150      | 148.6 | 123.7 | 185.5 |
| 115      | 64.2  | 54.3  | 81.5  |



#2  
 1,4-Dioxane  
 Concen: 0.054 ng  
 RT: 3.225 min Scan# 20  
 Delta R.T. -0.014 min  
 Lab File: BN036819.D  
 Acq: 03 Apr 2025 13:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 88    | Resp: | 146    |
| Ion      | Ratio | Lower | Upper  |
| 88       | 100   |       |        |
| 43       | 967.1 | 37.8  | 56.8#  |
| 58       | 119.9 | 67.4  | 101.2# |

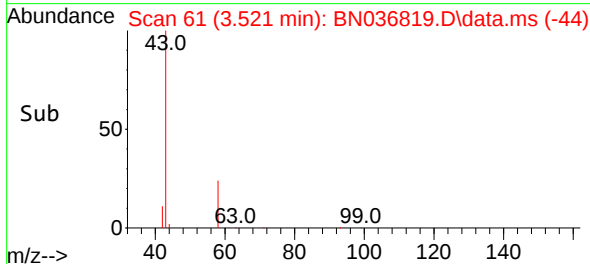
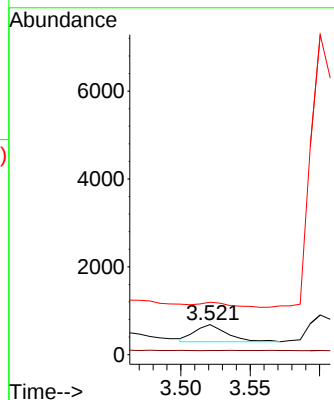
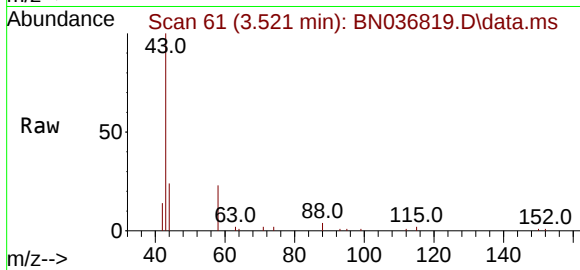




#3  
 n-Nitrosodimethylamine  
 Concen: 0.115 ng  
 RT: 3.521 min Scan# 61  
 Delta R.T. -0.029 min  
 Lab File: BN036819.D  
 Acq: 03 Apr 2025 13:00

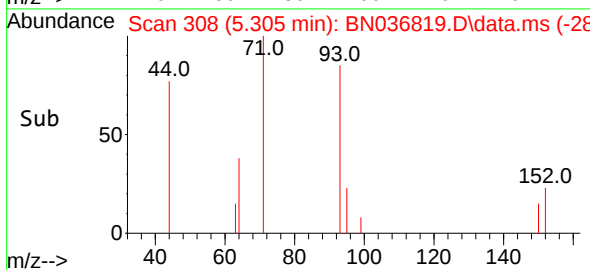
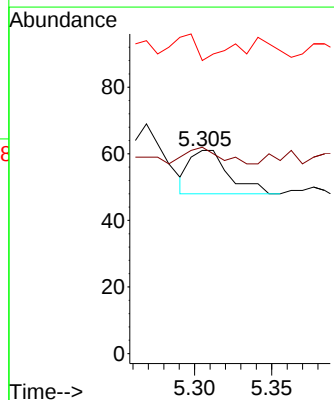
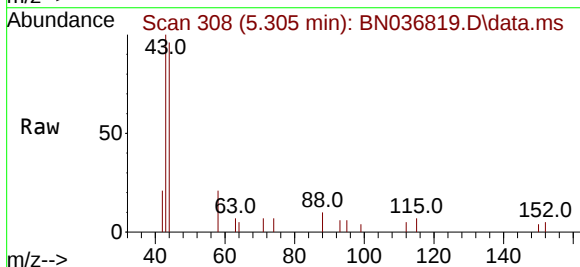
Instrument :  
 BNA\_N  
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Tgt Ion: 42 Resp: 629  
 Ion Ratio Lower Upper  
 42 100  
 74 1.7 60.6 90.8#  
 44 0.0 6.3 9.5#



#4  
 2-Fluorophenol  
 Concen: 0.004 ng  
 RT: 5.305 min Scan# 308  
 Delta R.T. -0.007 min  
 Lab File: BN036819.D  
 Acq: 03 Apr 2025 13:00

Tgt Ion: 112 Resp: 23  
 Ion Ratio Lower Upper  
 112 100  
 64 39.1 53.1 79.7#  
 63 39.1 31.8 47.8

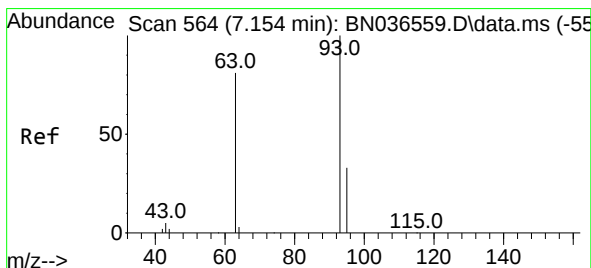
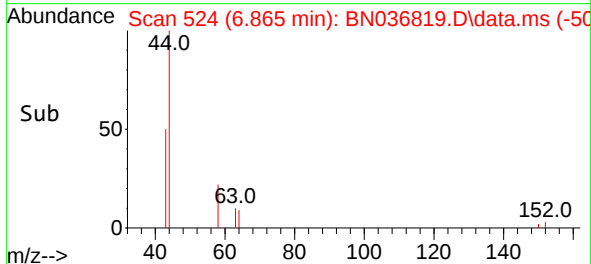
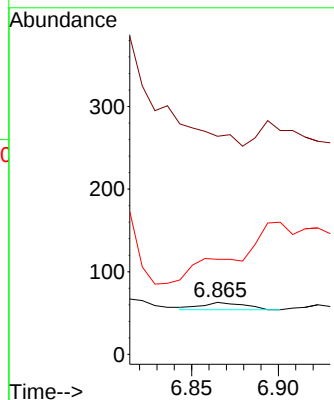
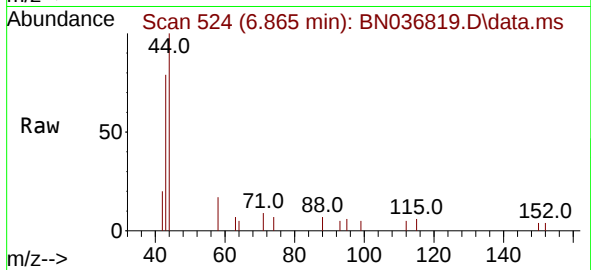




#5  
Phenol-d6  
Concen: 0.002 ng  
RT: 6.865 min Scan# 51  
Delta R.T. -0.036 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

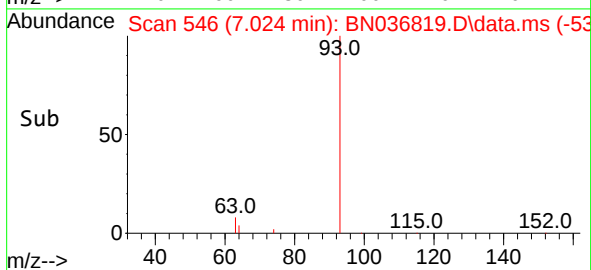
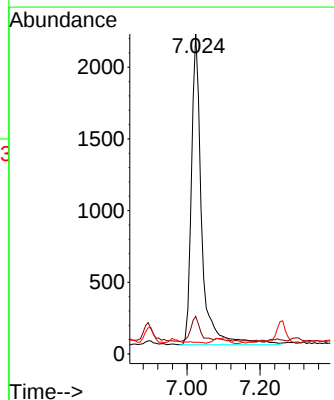
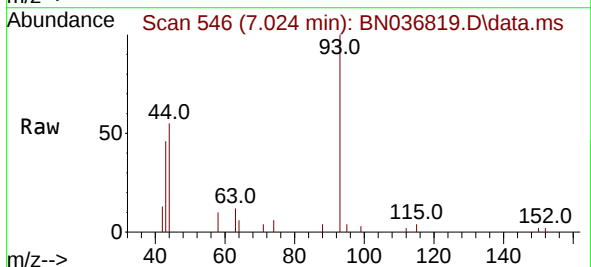
Instrument :  
BNA\_N  
ClientSampleId :  
MW112010

Tgt Ion: 99 Resp: 15  
Ion Ratio Lower Upper  
99 100  
42 0.0 26.5 39.7#  
71 0.0 34.1 51.1#



#6  
bis(2-Chloroethyl)ether  
Concen: 0.579 ng  
RT: 7.024 min Scan# 546  
Delta R.T. -0.130 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

Tgt Ion: 93 Resp: 4213  
Ion Ratio Lower Upper  
93 100  
63 7.6 67.7 101.5#  
95 0.0 25.6 38.4#

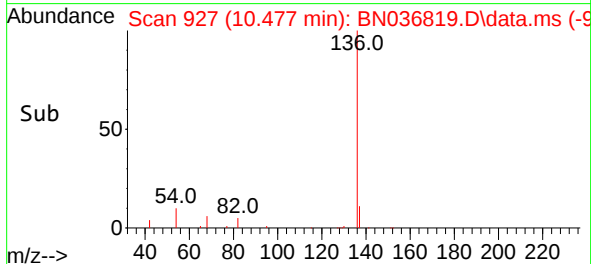
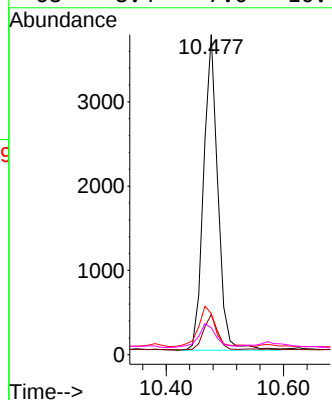
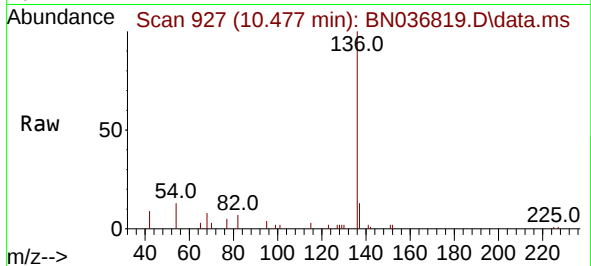




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.477 min Scan# 91  
Delta R.T. -0.032 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

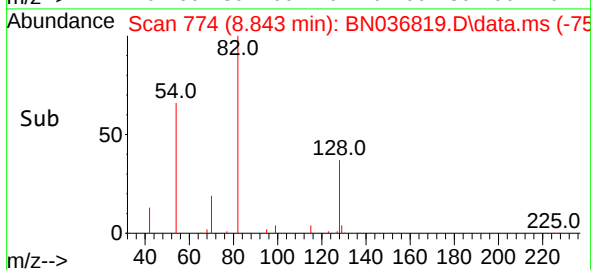
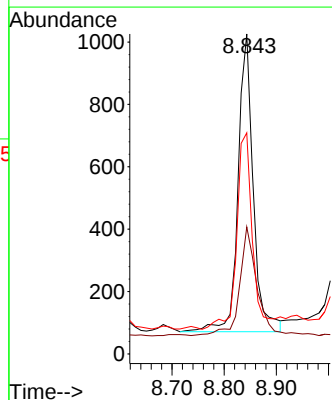
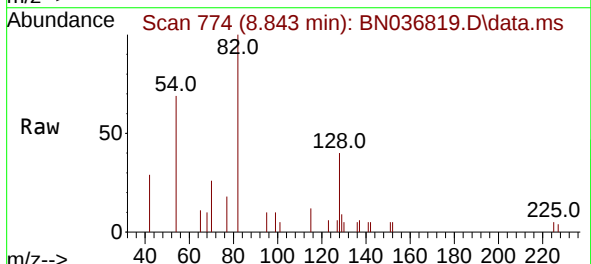
Instrument :  
BNA\_N  
ClientSampleId :  
MW112010

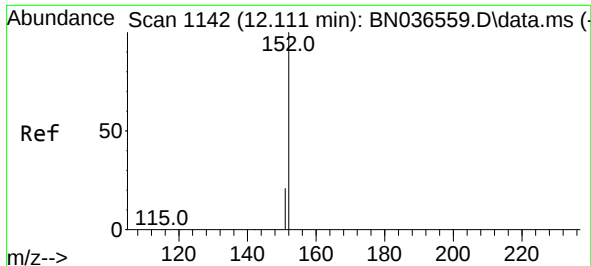
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|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 6318  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.6  | 10.3  | 15.5  |
| 54       | 12.8  | 11.5  | 17.3  |
| 68       | 8.4   | 7.0   | 10.4  |



#8  
Nitrobenzene-d5  
Concen: 0.281 ng  
RT: 8.843 min Scan# 774  
Delta R.T. -0.032 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1931  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 39.7  | 30.6  | 45.8  |
| 54       | 69.1  | 52.2  | 78.4  |

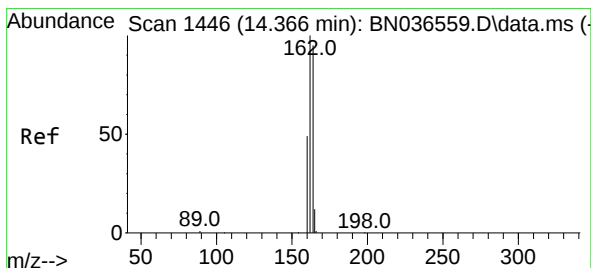
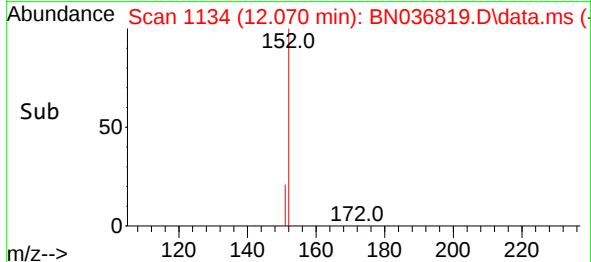
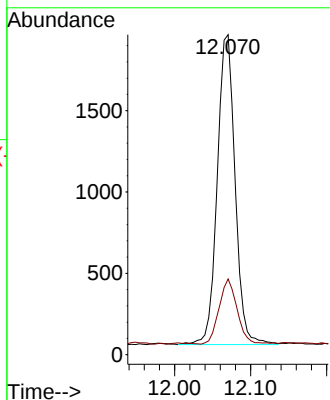
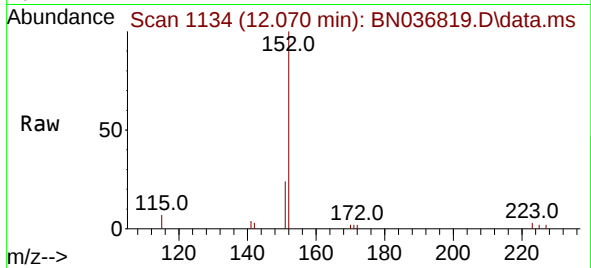




#11  
2-Methylnaphthalene-d10  
Concen: 0.330 ng  
RT: 12.070 min Scan# 1142  
Delta R.T. -0.040 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

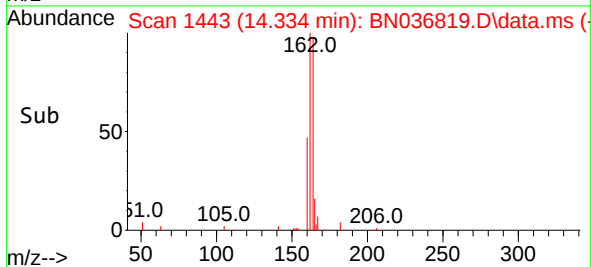
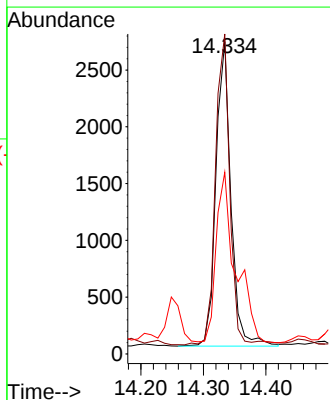
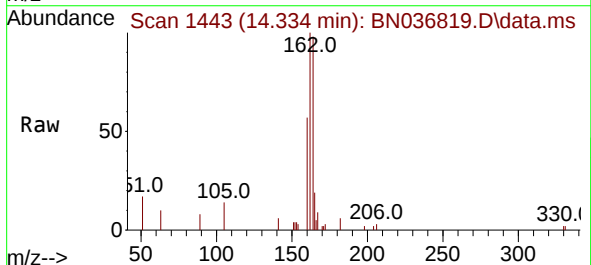
Instrument :  
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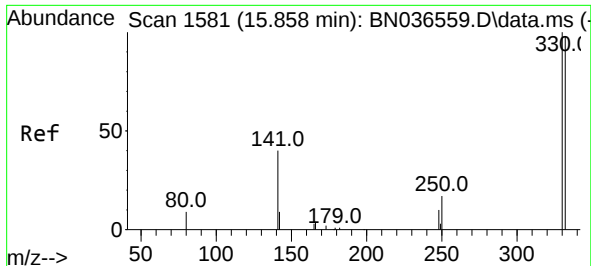
Tgt Ion:152 Resp: 3100  
Ion Ratio Lower Upper  
152 100  
151 21.3 17.0 25.6



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.334 min Scan# 1443  
Delta R.T. -0.032 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

Tgt Ion:164 Resp: 4484  
Ion Ratio Lower Upper  
164 100  
162 102.4 84.2 126.2  
160 58.1 42.2 63.2

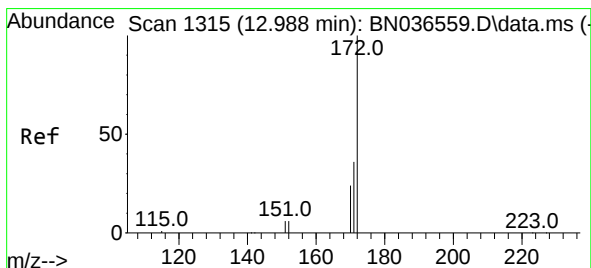
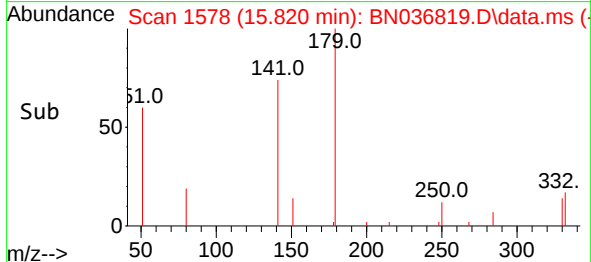
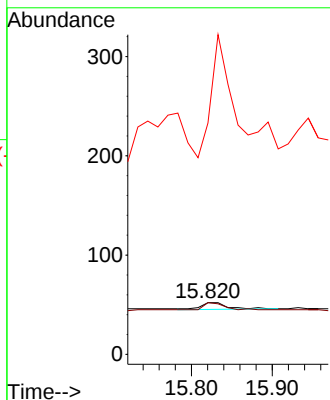
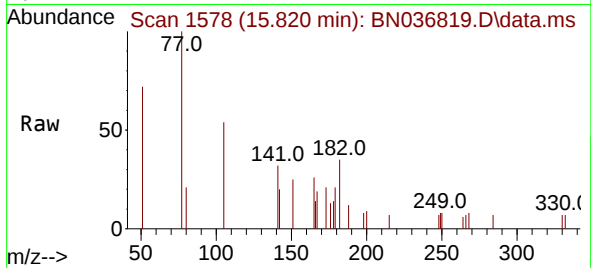




#14  
2,4,6-Tribromophenol  
Concen: 0.008 ng  
RT: 15.820 min Scan# 11  
Delta R.T. -0.037 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

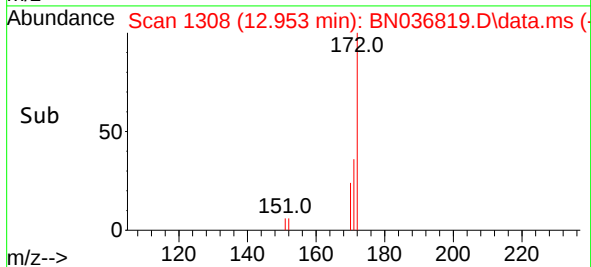
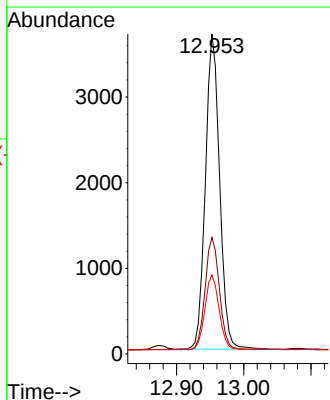
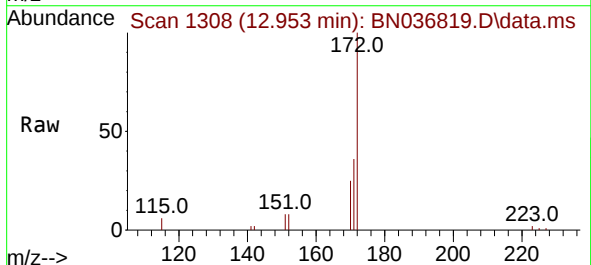
Instrument :  
BNA\_N  
ClientSampleId :  
MW112010

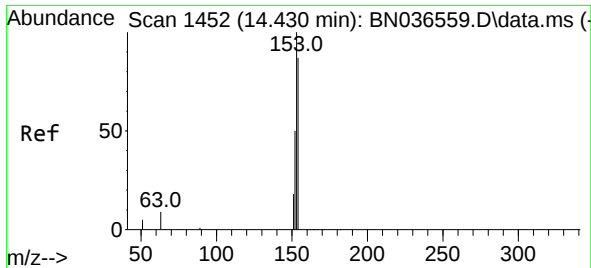
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Ion Ratio Lower Upper  
330 100  
332 75.0 75.2 112.8#  
141 1675.0 43.4 65.2#



#15  
2-Fluorobiphenyl  
Concen: 0.244 ng  
RT: 12.953 min Scan# 1308  
Delta R.T. -0.035 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

Tgt Ion:172 Resp: 6361  
Ion Ratio Lower Upper  
172 100  
171 36.4 29.5 44.3  
170 24.7 20.2 30.4

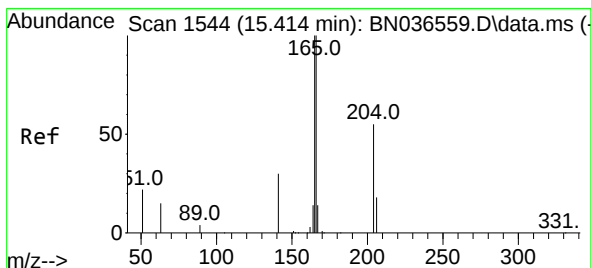
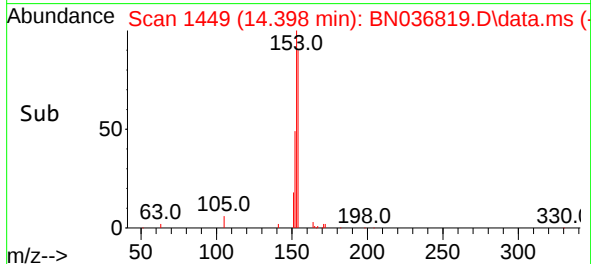
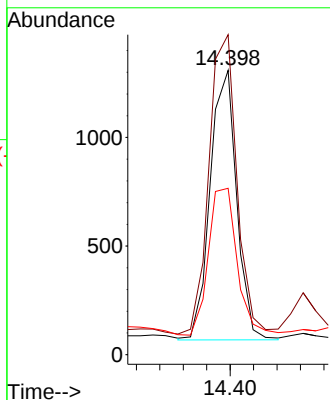
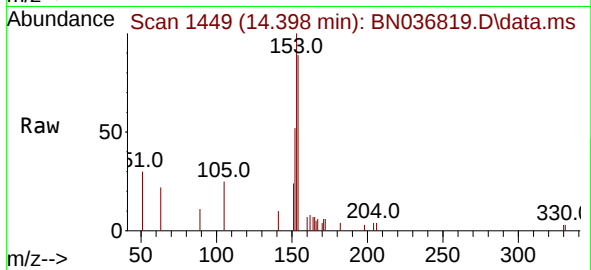




#17  
Acenaphthene  
Concen: 0.141 ng  
RT: 14.398 min Scan# 1449  
Delta R.T. -0.032 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

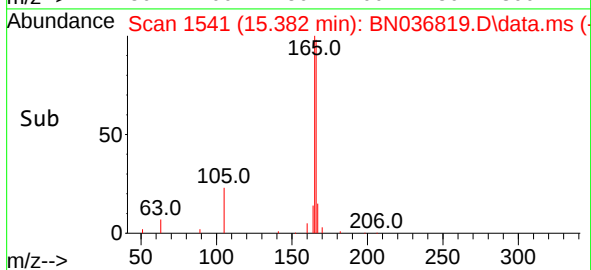
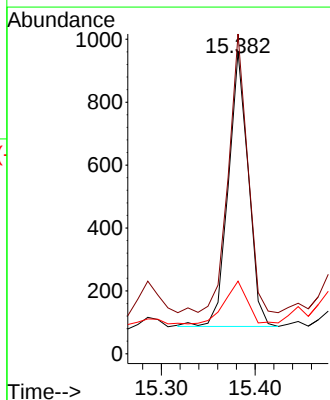
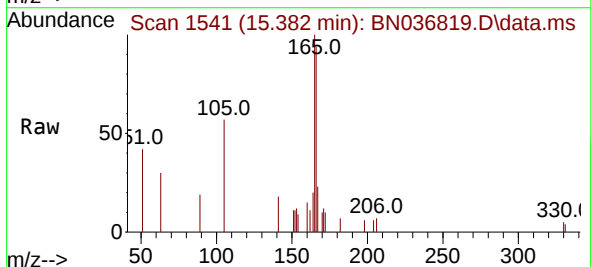
Instrument :  
BNA\_N  
ClientSampleId :  
MW112010

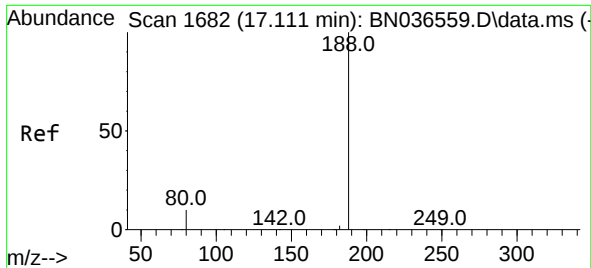
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|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 1948  |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 116.1 | 94.1  | 141.1 |
| 152       | 58.7  | 49.8  | 74.6  |



#18  
Fluorene  
Concen: 0.069 ng  
RT: 15.382 min Scan# 1541  
Delta R.T. -0.032 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 1289  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 97.3  | 79.8  | 119.8 |
| 167       | 17.8  | 10.6  | 15.8  |

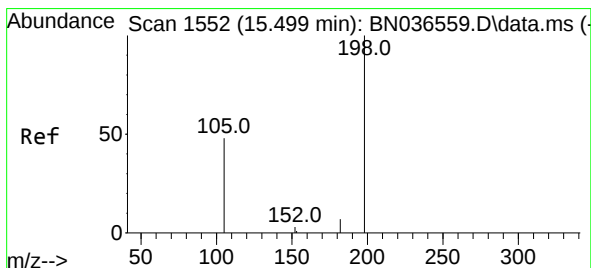
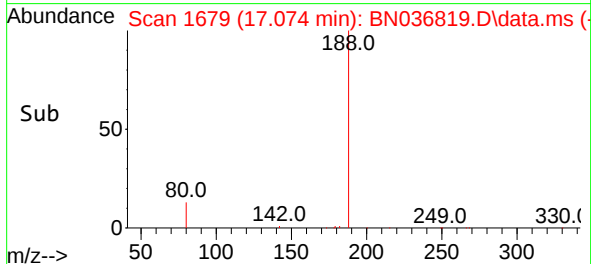
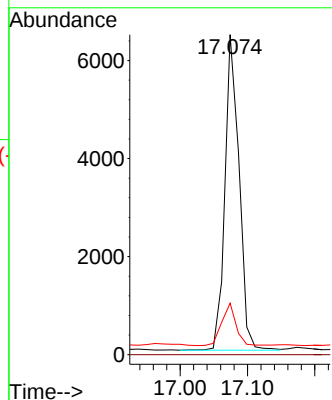
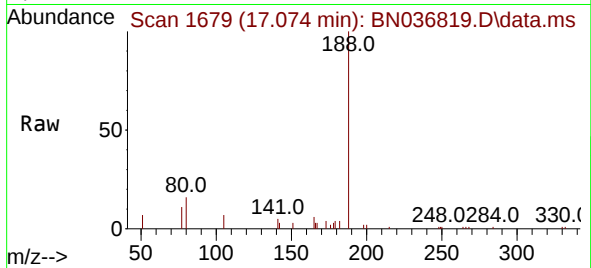




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.074 min Scan# 1  
Delta R.T. -0.037 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

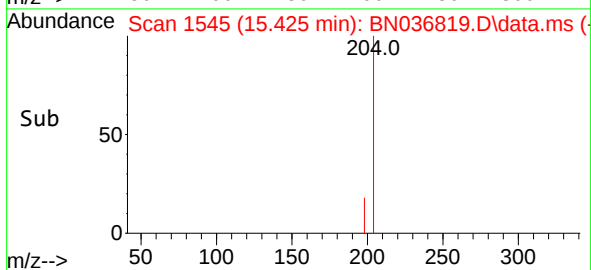
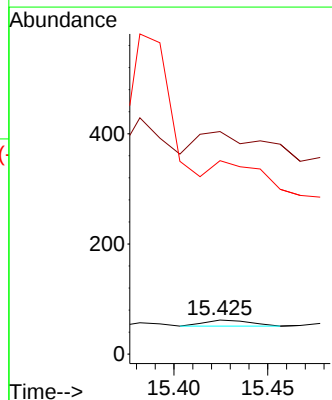
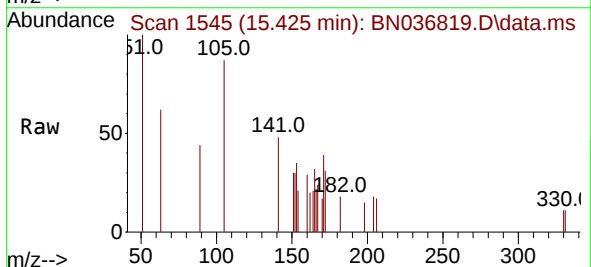
Instrument :  
BNA\_N  
ClientSampleId :  
MW112010

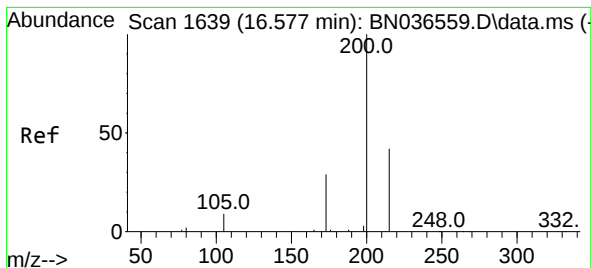
Tgt Ion:188 Resp: 9360  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 16.1 8.8 13.2#



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.154 ng  
RT: 15.425 min Scan# 1545  
Delta R.T. -0.074 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

Tgt Ion:198 Resp: 19  
Ion Ratio Lower Upper  
198 100  
51 651.6 107.9 161.9#  
105 566.1 56.2 84.2#





#23

Atrazine

Concen: 0.035 ng

RT: 16.540 min Scan# 1636

Delta R.T. -0.037 min

Lab File: BN036819.D

Acq: 03 Apr 2025 13:00

Instrument :

BNA\_N

ClientSampleId :

MW112010

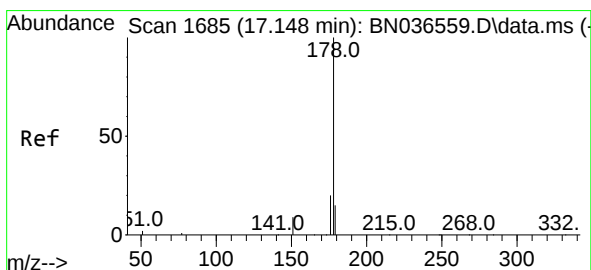
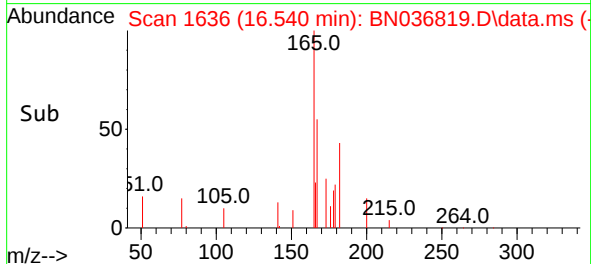
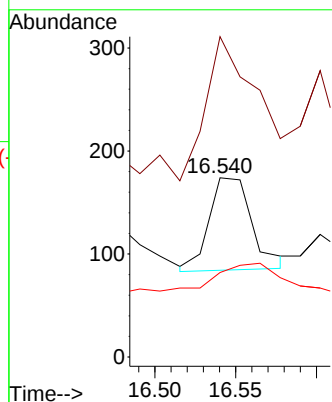
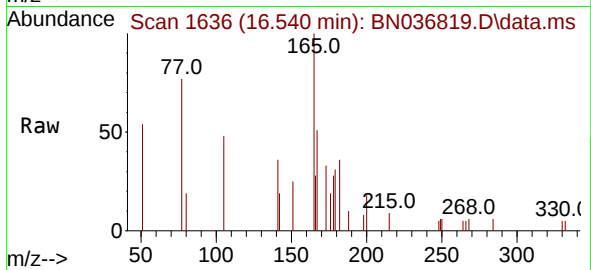
Tgt Ion:200 Resp: 166

Ion Ratio Lower Upper

200 100

173 178.7 27.3 40.9#

215 47.1 36.8 55.2



#25

Phenanthrene

Concen: 0.028 ng

RT: 17.124 min Scan# 1683

Delta R.T. -0.025 min

Lab File: BN036819.D

Acq: 03 Apr 2025 13:00

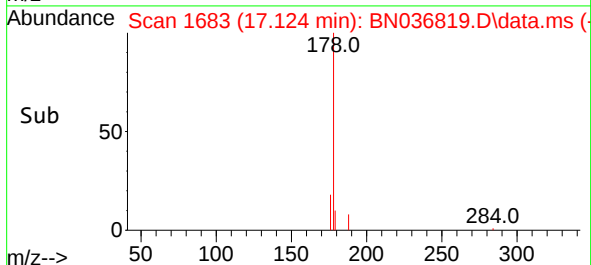
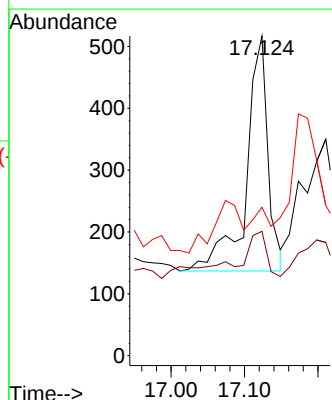
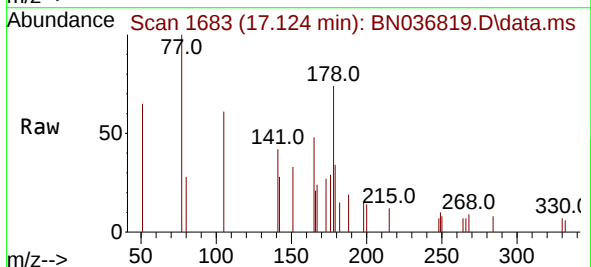
Tgt Ion:178 Resp: 781

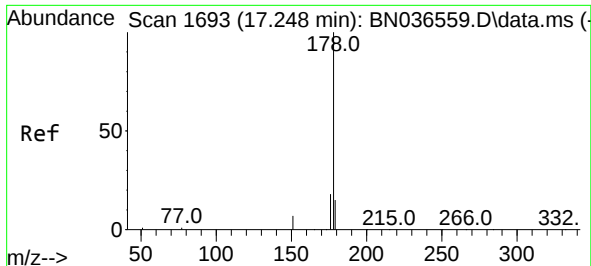
Ion Ratio Lower Upper

178 100

176 31.6 15.9 23.9#

179 0.0 12.2 18.4#

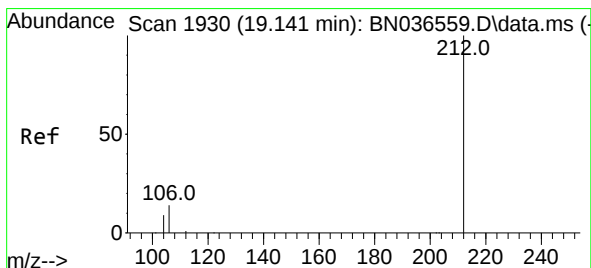
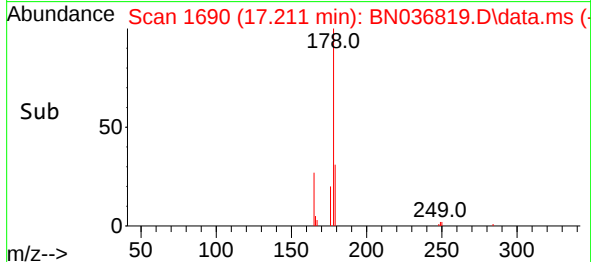
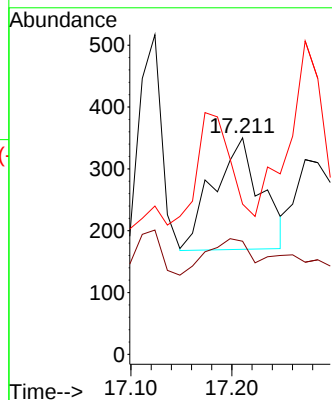
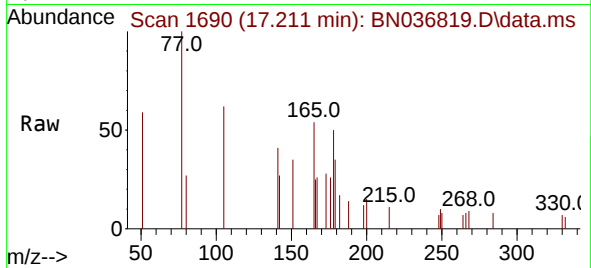




#26  
 Anthracene  
 Concen: 0.023 ng  
 RT: 17.211 min Scan# 1690  
 Delta R.T. -0.037 min  
 Lab File: BN036819.D  
 Acq: 03 Apr 2025 13:00

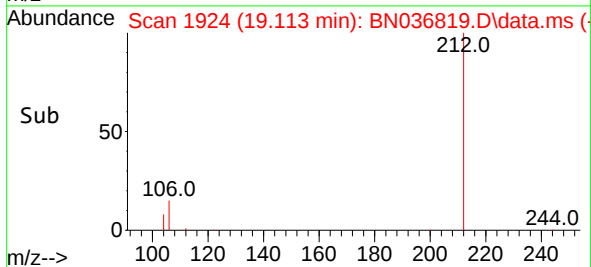
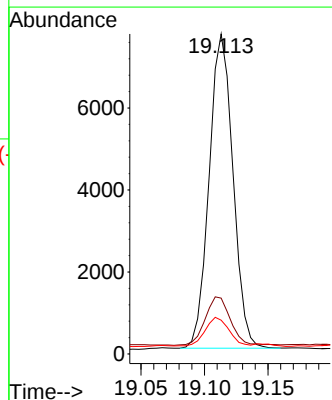
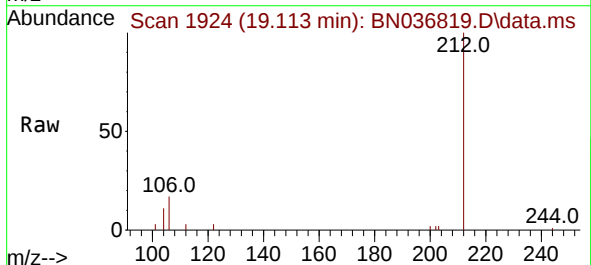
Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW112010

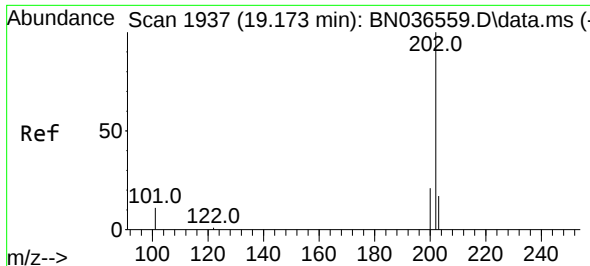
Tgt Ion:178 Resp: 591  
 Ion Ratio Lower Upper  
 178 100  
 176 33.0 15.4 23.2#  
 179 0.0 12.6 18.8#



#27  
 Fluoranthene-d10  
 Concen: 0.418 ng  
 RT: 19.113 min Scan# 1924  
 Delta R.T. -0.028 min  
 Lab File: BN036819.D  
 Acq: 03 Apr 2025 13:00

Tgt Ion:212 Resp: 10017  
 Ion Ratio Lower Upper  
 212 100  
 106 16.2 11.8 17.6  
 104 9.3 7.3 10.9

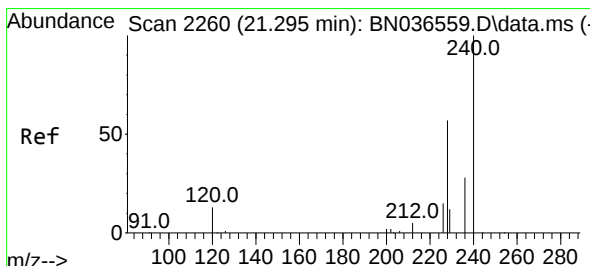
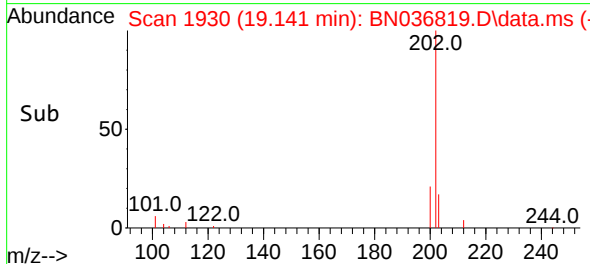
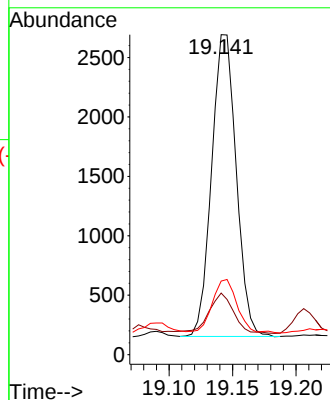
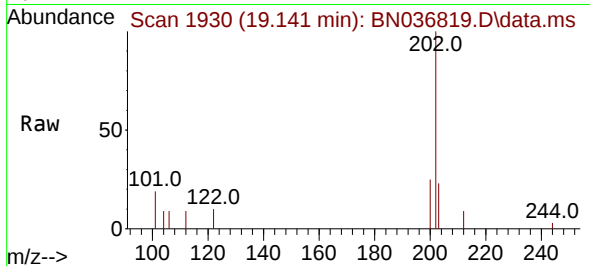




#28  
Fluoranthene  
Concen: 0.108 ng  
RT: 19.141 min Scan# 1930  
Delta R.T. -0.032 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

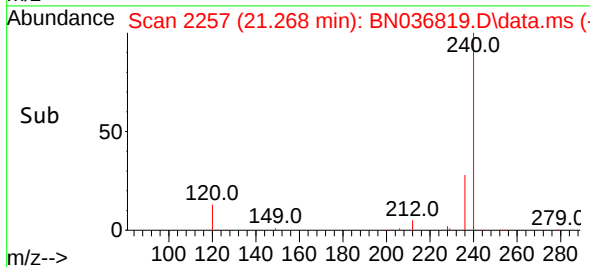
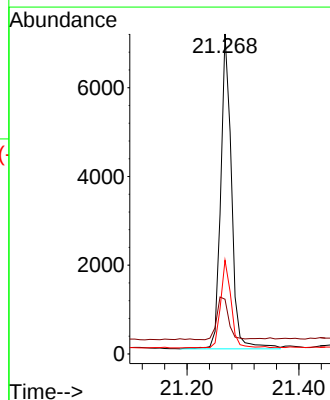
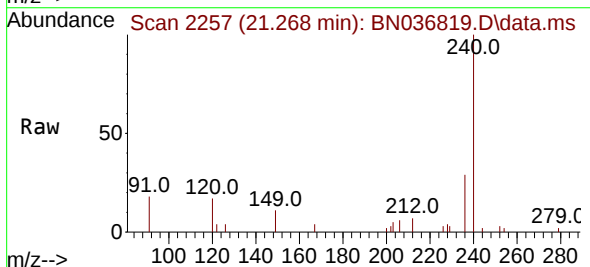
Instrument :  
BNA\_N  
ClientSampleId :  
MW112010

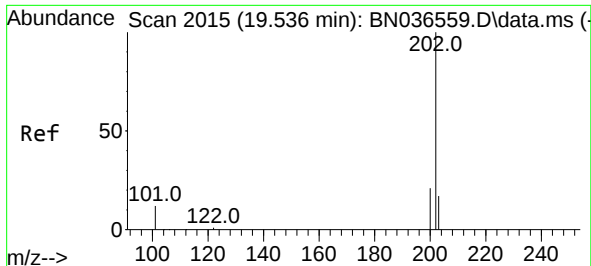
Tgt Ion:202 Resp: 3419  
Ion Ratio Lower Upper  
202 100  
101 13.5 9.4 14.0  
203 17.9 13.5 20.3



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.268 min Scan# 2257  
Delta R.T. -0.027 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

Tgt Ion:240 Resp: 9514  
Ion Ratio Lower Upper  
240 100  
120 17.1 14.6 22.0  
236 29.3 24.1 36.1

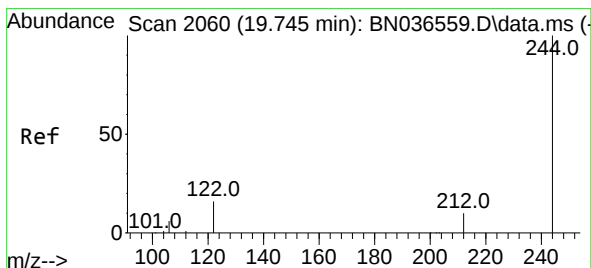
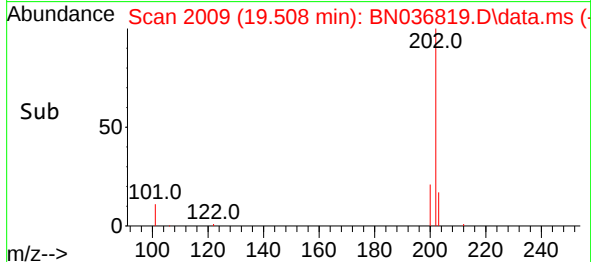
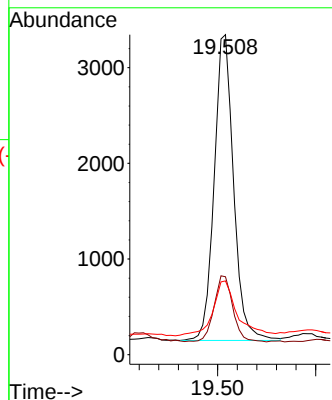
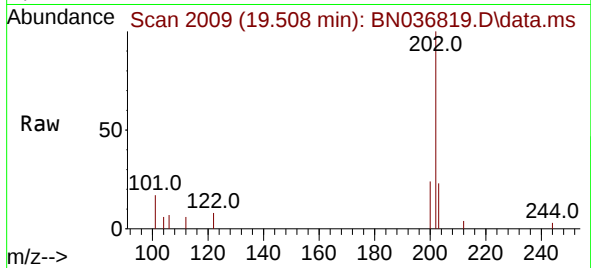




#30  
 Pyrene  
 Concen: 0.094 ng  
 RT: 19.508 min Scan# 20  
 Delta R.T. -0.028 min  
 Lab File: BN036819.D  
 Acq: 03 Apr 2025 13:00

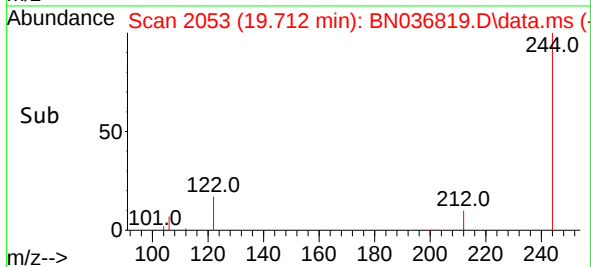
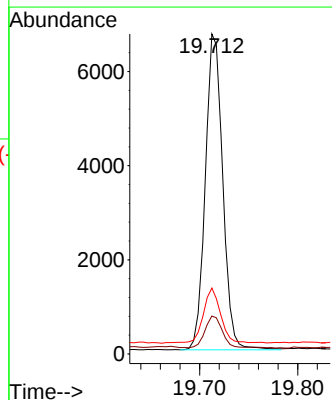
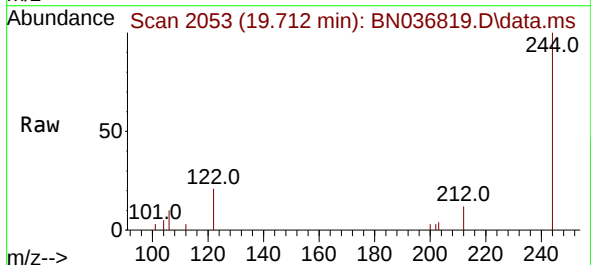
Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW112010

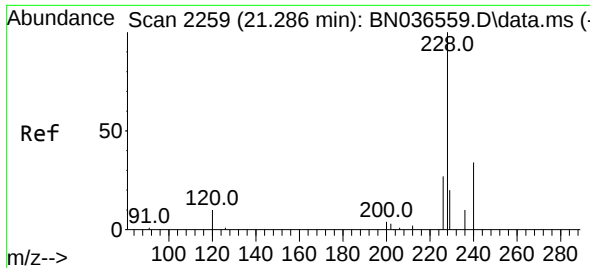
Tgt Ion:202 Resp: 4385  
 Ion Ratio Lower Upper  
 202 100  
 200 20.9 17.1 25.7  
 203 22.2 14.1 21.1#



#31  
 Terphenyl-d14  
 Concen: 0.364 ng  
 RT: 19.712 min Scan# 2053  
 Delta R.T. -0.032 min  
 Lab File: BN036819.D  
 Acq: 03 Apr 2025 13:00

Tgt Ion:244 Resp: 8290  
 Ion Ratio Lower Upper  
 244 100  
 212 11.9 9.6 14.4  
 122 20.6 13.9 20.9

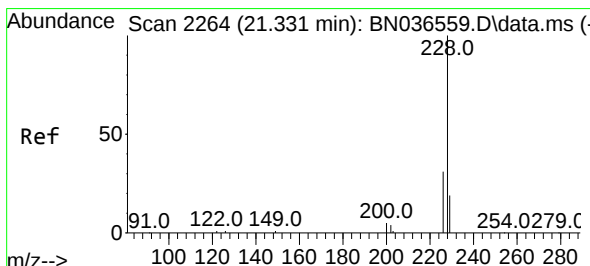
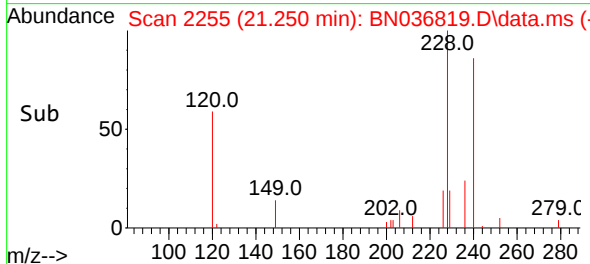
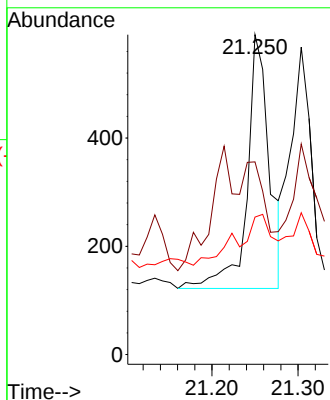
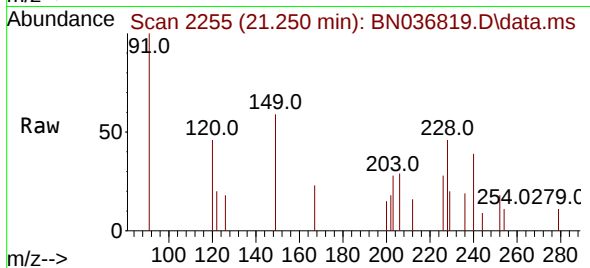




#32  
Benzo(a)anthracene  
Concen: 0.026 ng  
RT: 21.250 min Scan# 211  
Delta R.T. -0.036 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

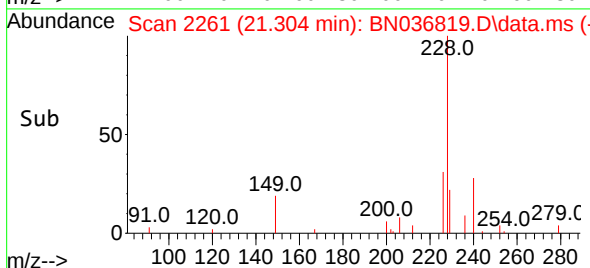
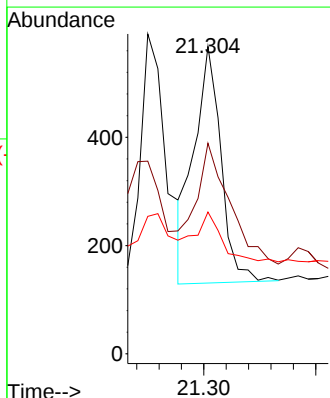
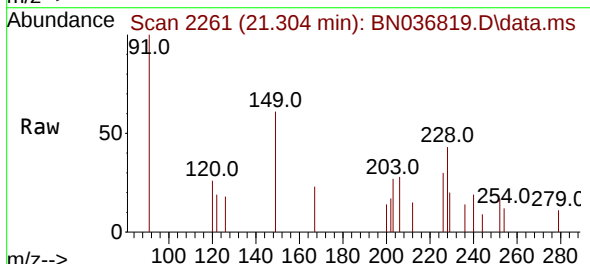
Instrument :  
BNA\_N  
ClientSampleId :  
MW112010

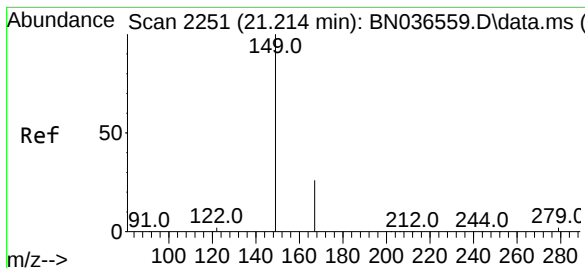
Tgt Ion:228 Resp: 845  
Ion Ratio Lower Upper  
228 100  
226 60.2 22.5 33.7#  
229 43.0 16.6 25.0#



#33  
Chrysene  
Concen: 0.020 ng  
RT: 21.304 min Scan# 2261  
Delta R.T. -0.027 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

Tgt Ion:228 Resp: 732  
Ion Ratio Lower Upper  
228 100  
226 68.5 25.3 37.9#  
229 46.1 15.8 23.8#

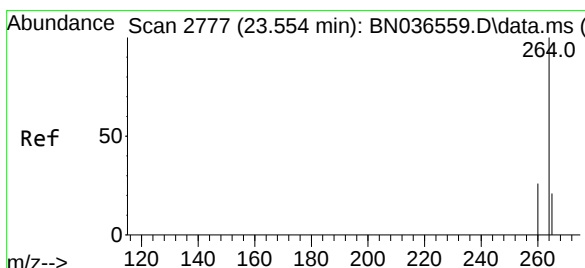
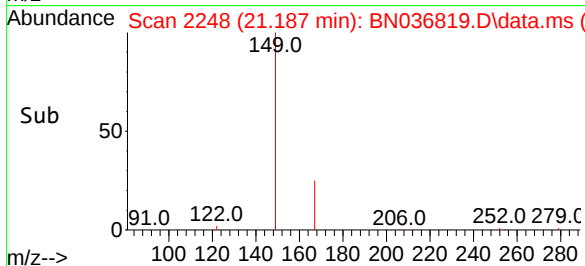
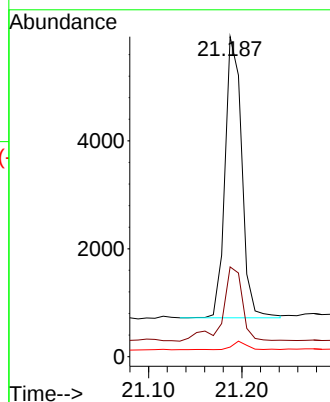
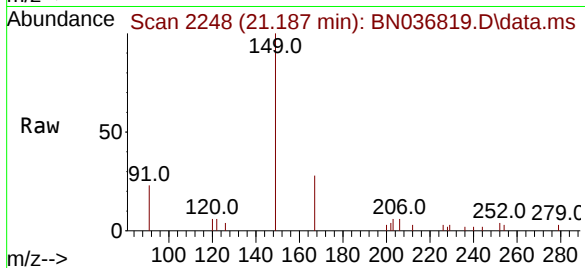




#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.275 ng  
 RT: 21.187 min Scan# 2118  
 Delta R.T. -0.027 min  
 Lab File: BN036819.D  
 Acq: 03 Apr 2025 13:00

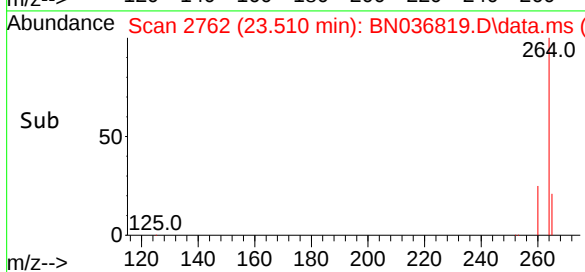
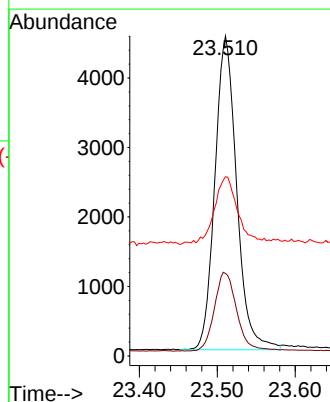
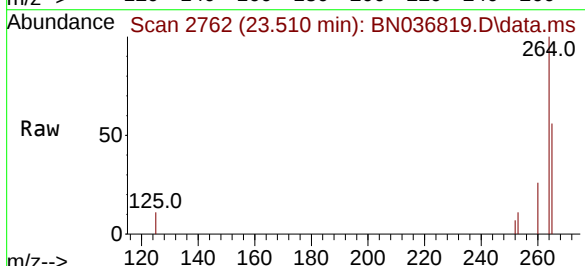
Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW112010

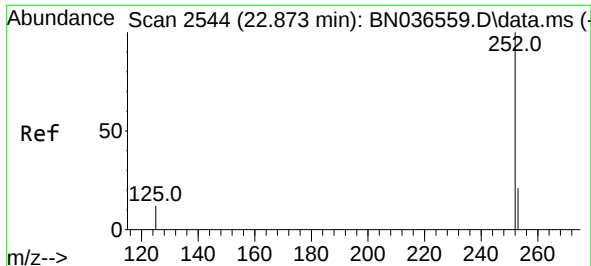
Tgt Ion:149 Resp: 6479  
 Ion Ratio Lower Upper  
 149 100  
 167 31.6 20.7 31.1#  
 279 2.5 3.6 5.4#



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.510 min Scan# 2762  
 Delta R.T. -0.044 min  
 Lab File: BN036819.D  
 Acq: 03 Apr 2025 13:00

Tgt Ion:264 Resp: 8772  
 Ion Ratio Lower Upper  
 264 100  
 260 25.8 22.6 33.8  
 265 56.0 88.1 132.1#

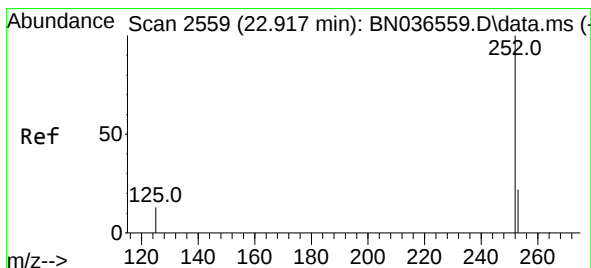
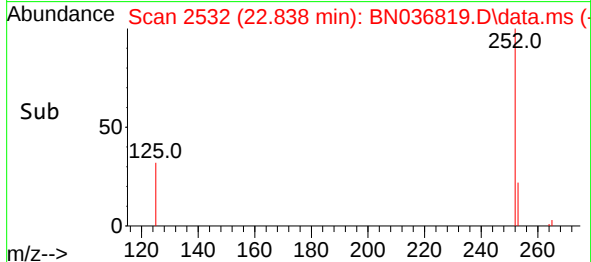
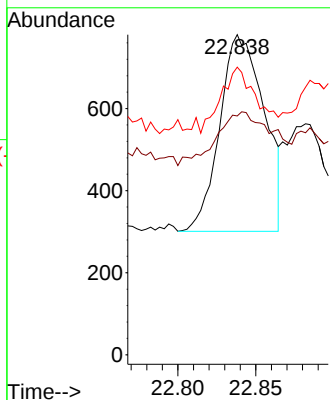
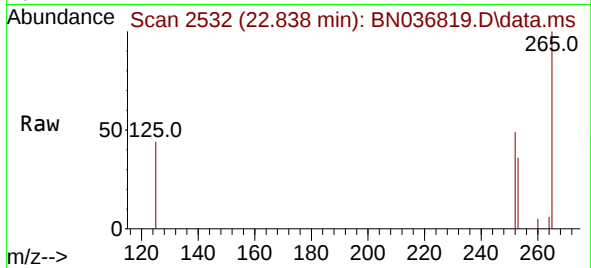




#37  
Benzo(b)fluoranthene  
Concen: 0.030 ng  
RT: 22.838 min Scan# 2532  
Delta R.T. -0.035 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

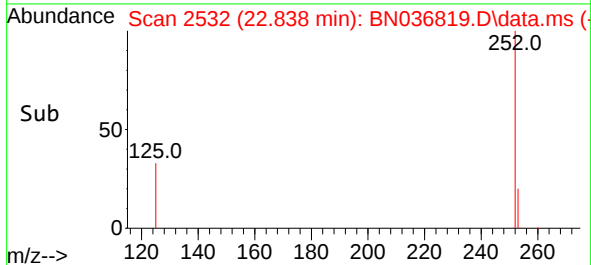
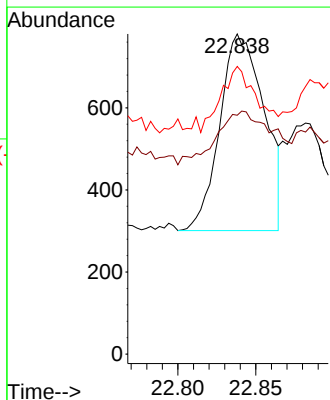
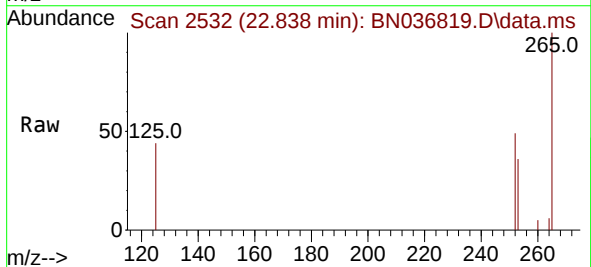
Instrument :  
BNA\_N  
ClientSampleId :  
MW112010

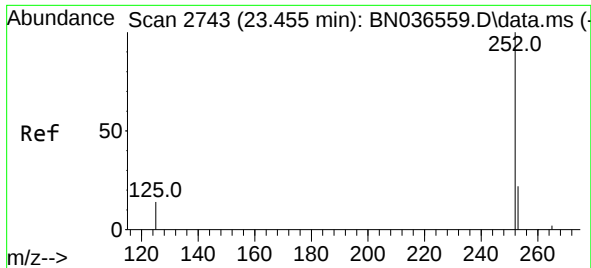
Tgt Ion:252 Resp: 950  
Ion Ratio Lower Upper  
252 100  
253 74.6 23.9 35.9#  
125 89.9 17.4 26.2#



#38  
Benzo(k)fluoranthene  
Concen: 0.028 ng  
RT: 22.838 min Scan# 2532  
Delta R.T. -0.079 min  
Lab File: BN036819.D  
Acq: 03 Apr 2025 13:00

Tgt Ion:252 Resp: 950  
Ion Ratio Lower Upper  
252 100  
253 74.6 24.6 36.8#  
125 89.9 17.8 26.8#





#39

Benzo(a)pyrene

Concen: 0.021 ng

RT: 23.411 min Scan# 21

Delta R.T. -0.044 min

Lab File: BN036819.D

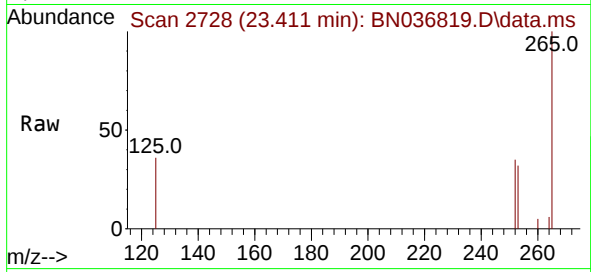
Acq: 03 Apr 2025 13:00

Instrument :

BNA\_N

ClientSampleId :

MW112010



Tgt Ion:252 Resp: 566

Ion Ratio Lower Upper

252 100

253 90.8 27.8 41.8#

125 100.9 22.7 34.1#

