

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN060925\  
 Data File : BN037213.D  
 Acq On : 10 Jun 2025 09:49  
 Operator : RC/JU  
 Sample : Q2234-07DL 2X  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW-19B-72-060425DL

Quant Time: Jun 10 10:51:19 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 04 01:52:03 2025  
 Response via : Initial Calibration

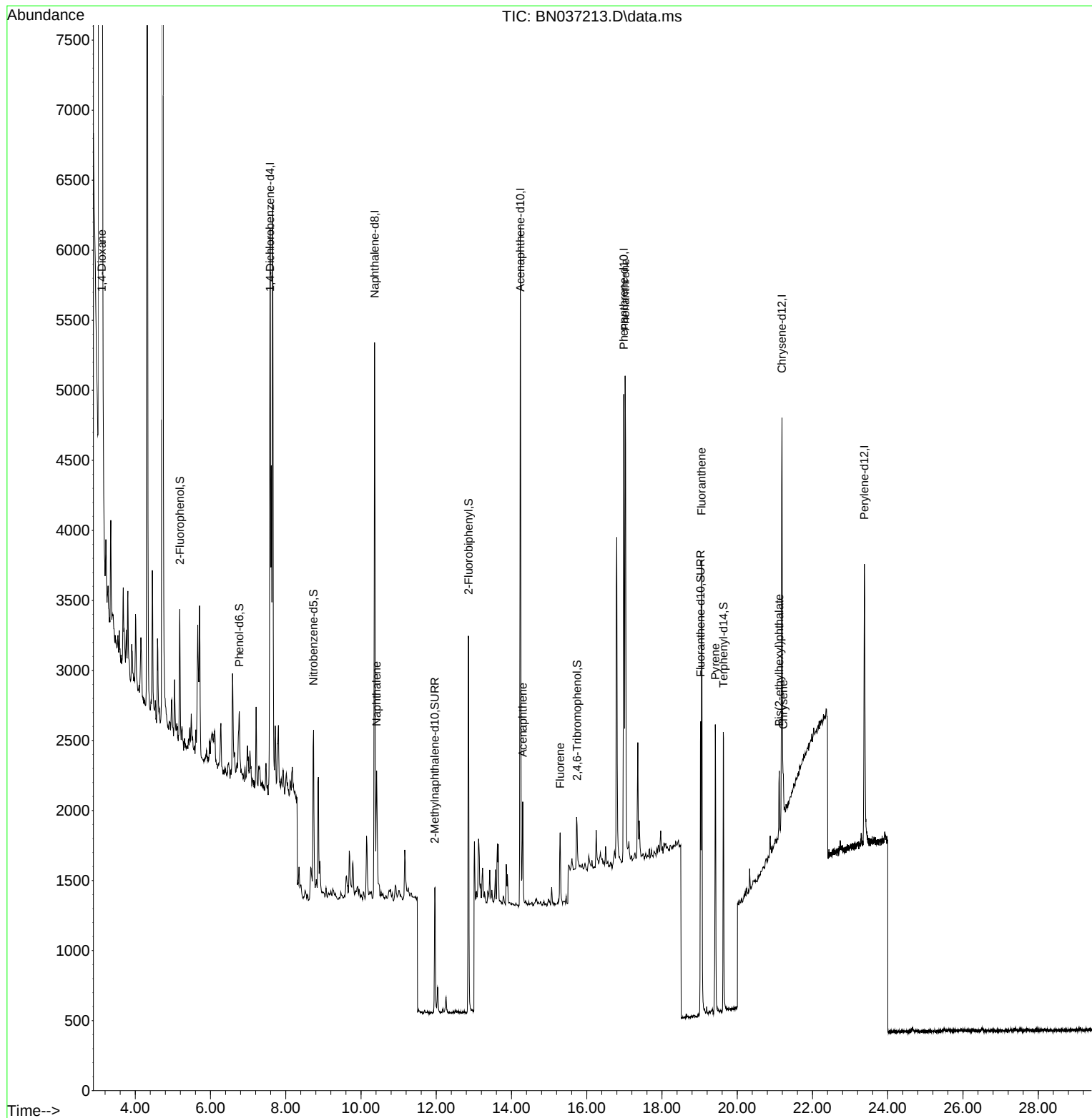
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.582  | 152  | 1883     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.362 | 136  | 4807     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 14.235 | 164  | 2597     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.984 | 188  | 4389     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.189 | 240  | 2810     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.380 | 264  | 2751     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.184  | 112  | 530      | 0.114 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.766  | 99   | 394      | 0.070 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 1062     | 0.209 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.961 | 152  | 1359     | 0.203 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 15.743 | 330  | 218      | 0.208 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.858 | 172  | 2439     | 0.220 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.026 | 212  | 2415     | 0.217 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.630 | 244  | 2038     | 0.308 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.112  | 88   | 7647     | 3.047 | ng    | 98       |
| 9) Naphthalene                | 10.415 | 128  | 829      | 0.060 | ng    | # 83     |
| 17) Acenaphthene              | 14.299 | 154  | 316      | 0.038 | ng    | 98       |
| 18) Fluorene                  | 15.293 | 166  | 334      | 0.031 | ng    | # 91     |
| 25) Phenanthrene              | 17.021 | 178  | 3983     | 0.280 | ng    | 99       |
| 28) Fluoranthene              | 19.054 | 202  | 2915     | 0.186 | ng    | 99       |
| 30) Pyrene                    | 19.416 | 202  | 1996     | 0.146 | ng    | # 94     |
| 33) Chrysene                  | 21.225 | 228  | 295      | 0.026 | ng    | # 64     |
| 34) Bis(2-ethylhexyl)phtha... | 21.117 | 149  | 620      | 0.097 | ng    | # 88     |
| -----                         |        |      |          |       |       |          |

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

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ALS Vial : 31 Sample Multiplier: 1

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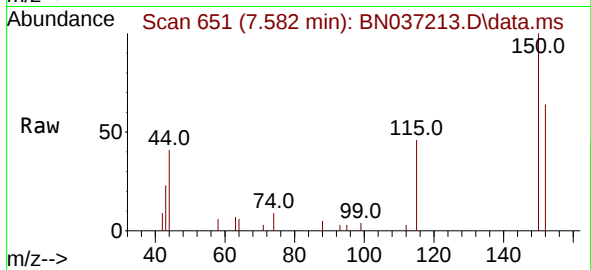
Quant Time: Jun 10 10:51:19 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN060325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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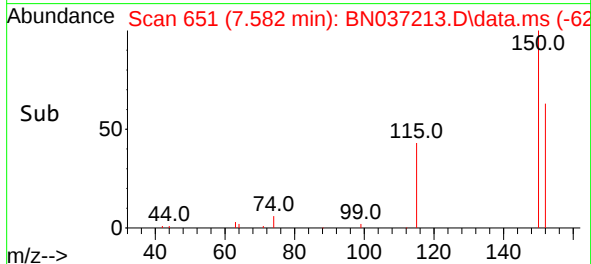
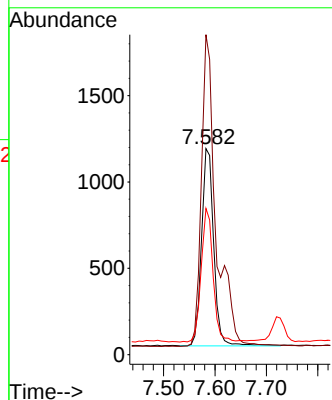
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.582 min Scan# 61  
 Delta R.T. -0.008 min  
 Lab File: BN037213.D  
 Acq: 10 Jun 2025 09:49

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW-19B-72-060425DL



Tgt Ion:152 Resp: 1883

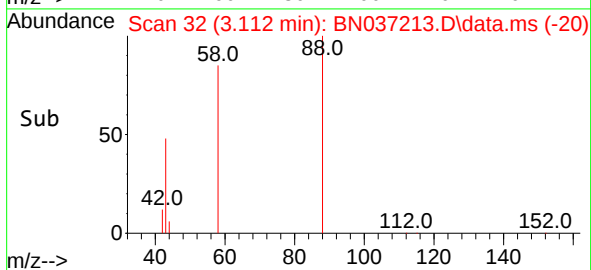
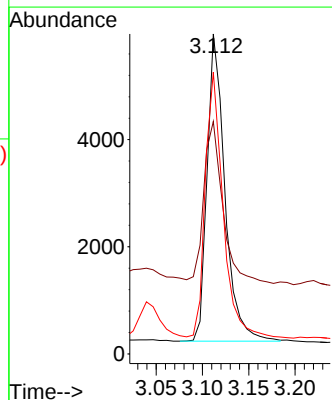
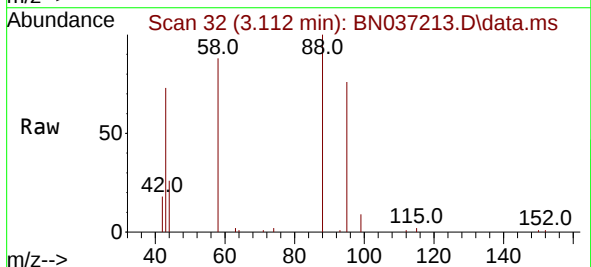
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 155.3 | 123.2 | 184.8 |
| 115 | 71.0  | 56.6  | 85.0  |

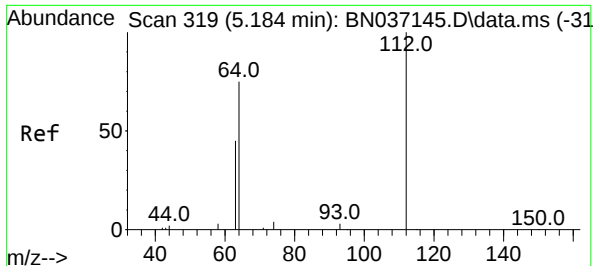


#2  
 1,4-Dioxane  
 Concen: 3.047 ng  
 RT: 3.112 min Scan# 32  
 Delta R.T. -0.014 min  
 Lab File: BN037213.D  
 Acq: 10 Jun 2025 09:49

Tgt Ion: 88 Resp: 7647

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 55.1  | 43.5  | 65.3  |
| 58  | 86.8  | 67.7  | 101.5 |

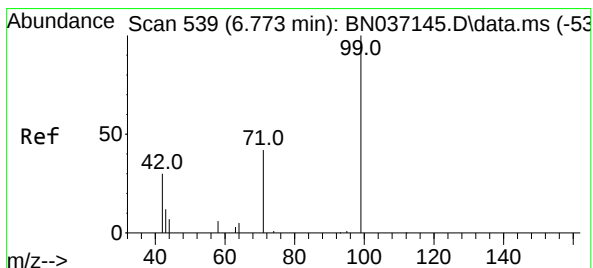
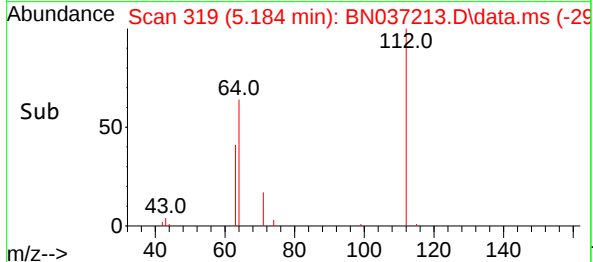
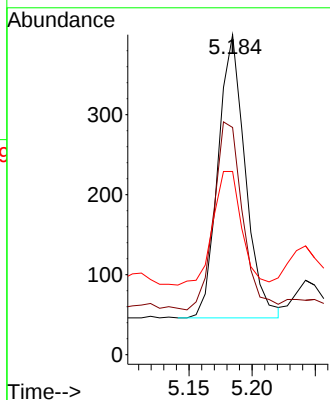
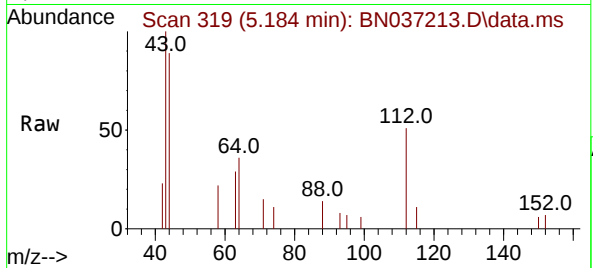




#4  
2-Fluorophenol  
Concen: 0.114 ng  
RT: 5.184 min Scan# 319  
Delta R.T. -0.000 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

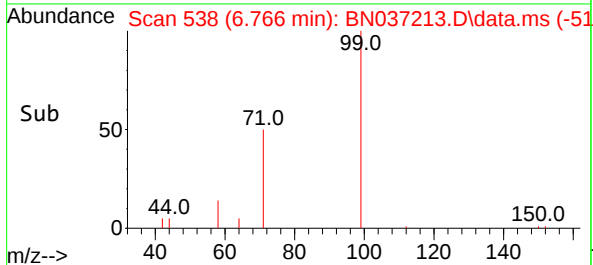
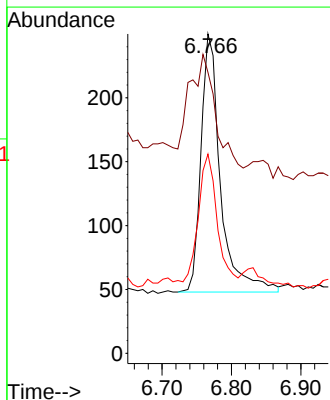
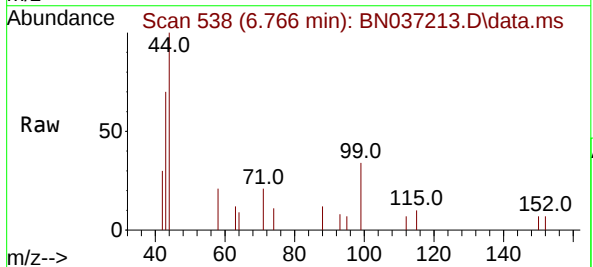
Instrument :  
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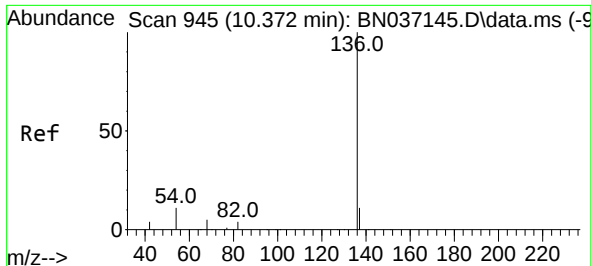
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 530   |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 69.8  | 56.3  | 84.5  |
| 63       | 42.8  | 36.2  | 54.4  |



#5  
Phenol-d6  
Concen: 0.070 ng  
RT: 6.766 min Scan# 538  
Delta R.T. -0.007 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 394   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 58.4  | 31.3  | 46.9# |
| 71       | 48.7  | 38.2  | 57.2  |

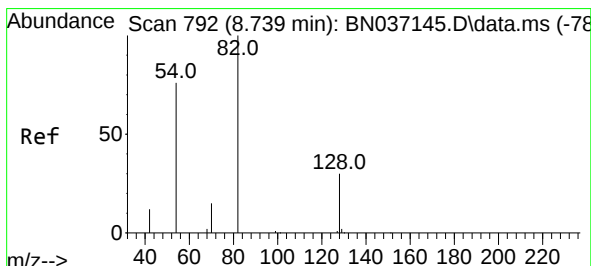
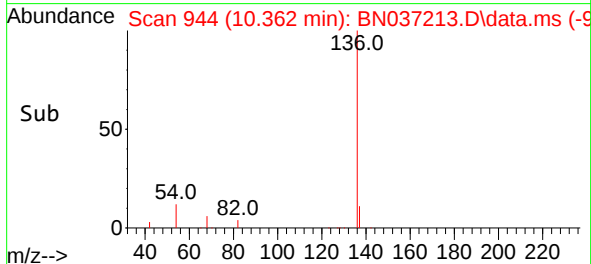
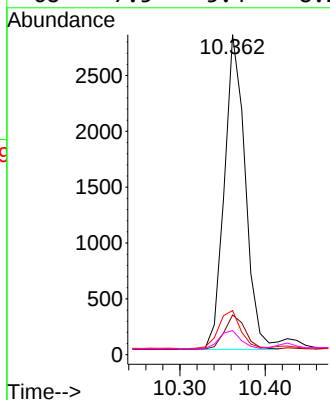
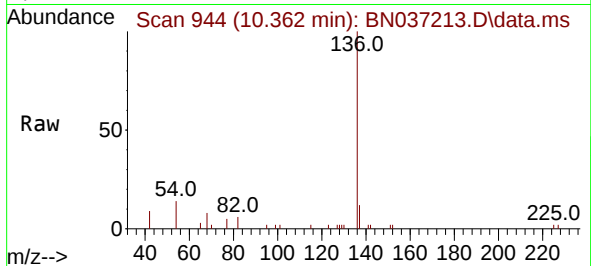




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.362 min Scan# 945  
Delta R.T. -0.011 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

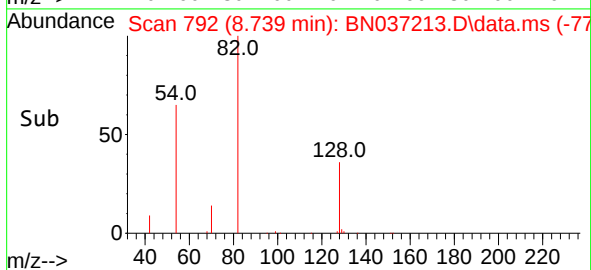
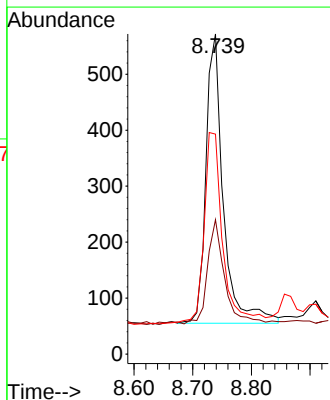
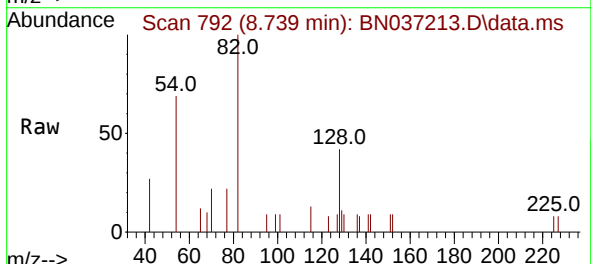
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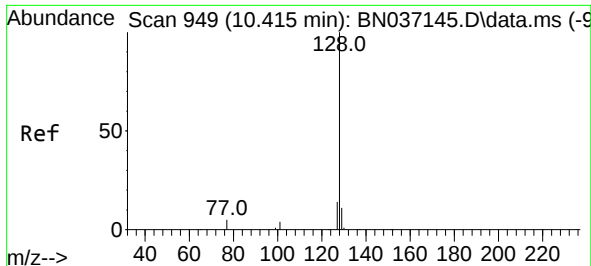
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4807  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 9.7   | 14.5  |
| 54       | 13.8  | 9.7   | 14.5  |
| 68       | 7.5   | 5.4   | 8.2   |



#8  
Nitrobenzene-d5  
Concen: 0.209 ng  
RT: 8.739 min Scan# 792  
Delta R.T. -0.000 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1062  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.0  | 26.9  | 40.3# |
| 54       | 68.7  | 61.4  | 92.2  |

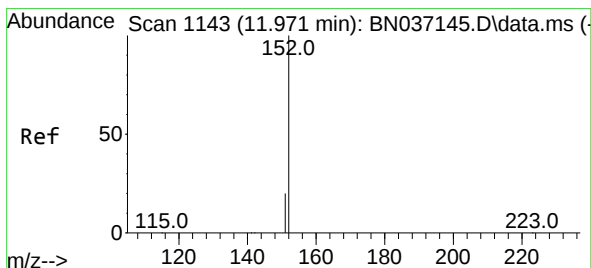
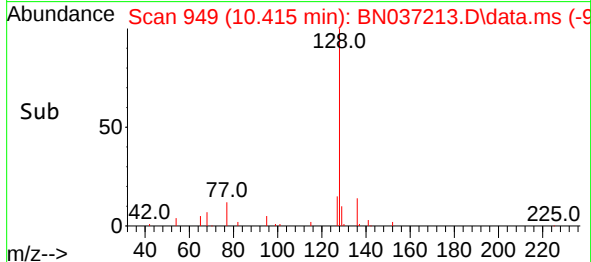
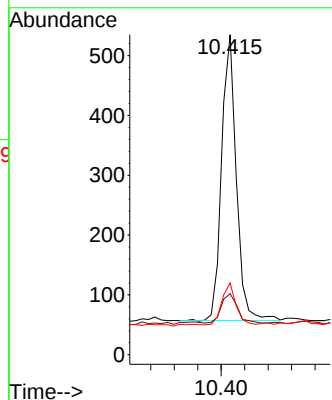
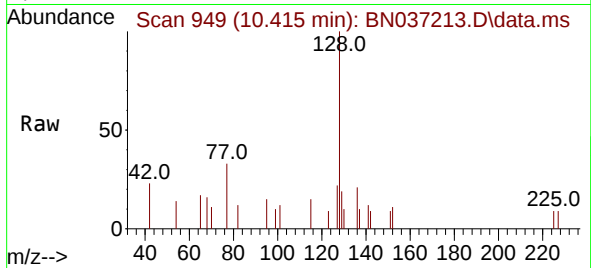




#9  
Naphthalene  
Concen: 0.060 ng  
RT: 10.415 min Scan# 949  
Delta R.T. 0.000 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

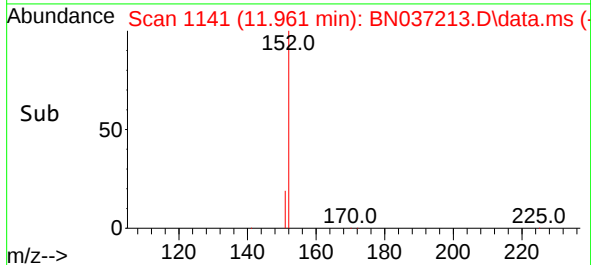
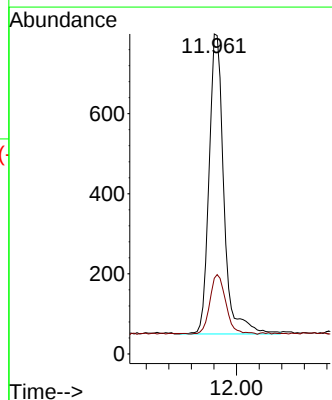
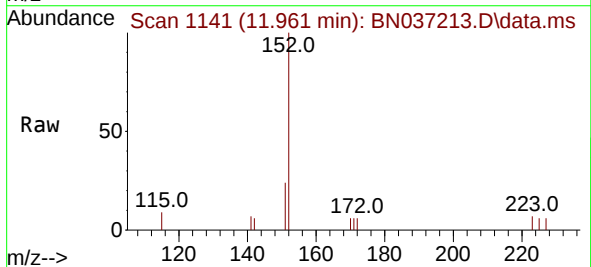
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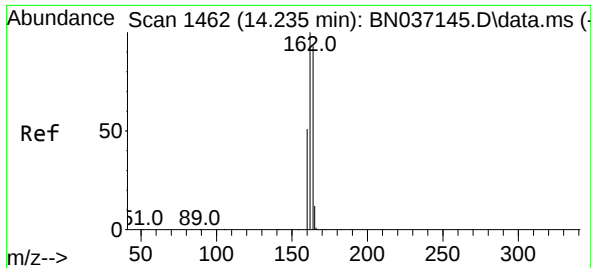
Tgt Ion:128 Resp: 829  
Ion Ratio Lower Upper  
128 100  
129 19.1 9.8 14.8#  
127 22.4 12.3 18.5#



#11  
2-Methylnaphthalene-d10  
Concen: 0.203 ng  
RT: 11.961 min Scan# 1141  
Delta R.T. -0.010 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

Tgt Ion:152 Resp: 1359  
Ion Ratio Lower Upper  
152 100  
151 21.7 17.1 25.7

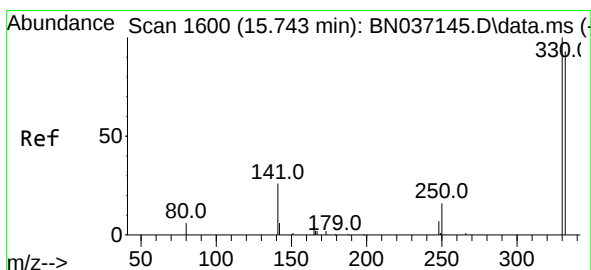
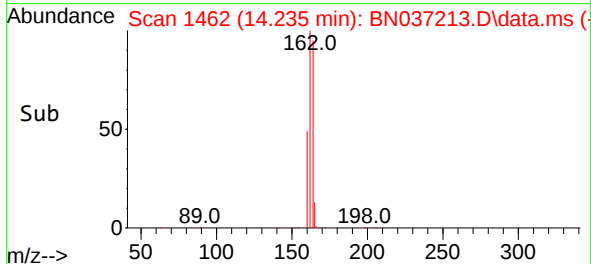
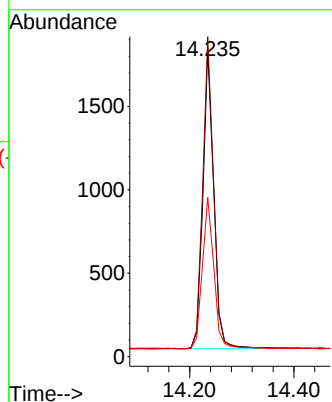
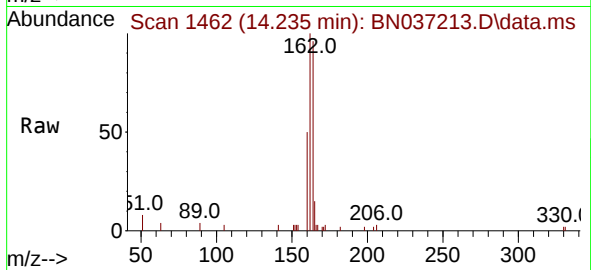




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.235 min Scan# 1462  
Delta R.T. -0.000 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

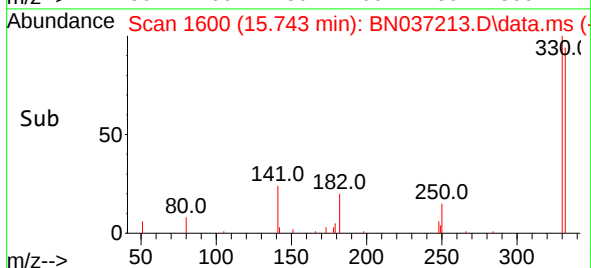
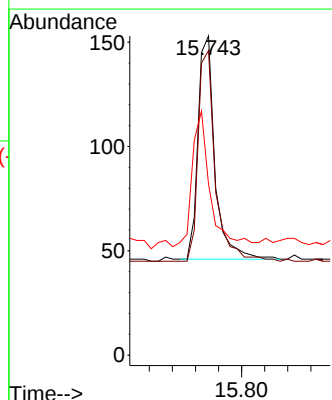
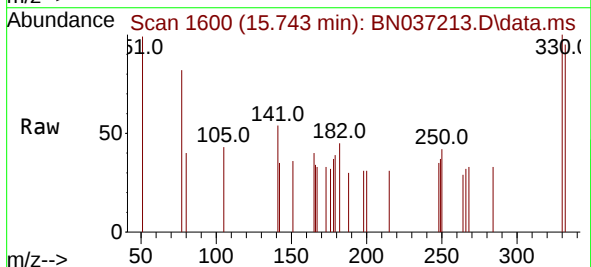
Instrument :  
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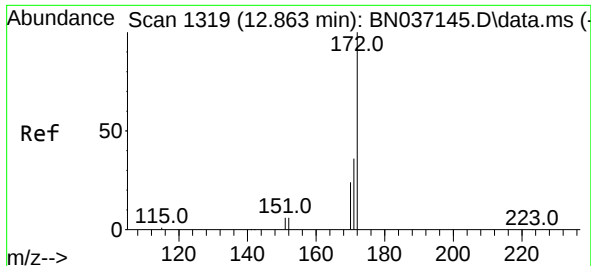
Tgt Ion:164 Resp: 2597  
Ion Ratio Lower Upper  
164 100  
162 104.4 85.5 128.3  
160 51.9 44.6 67.0



#14  
2,4,6-Tribromophenol  
Concen: 0.208 ng  
RT: 15.743 min Scan# 1600  
Delta R.T. -0.000 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

Tgt Ion:330 Resp: 218  
Ion Ratio Lower Upper  
330 100  
332 95.9 77.1 115.7  
141 63.8 46.4 69.6

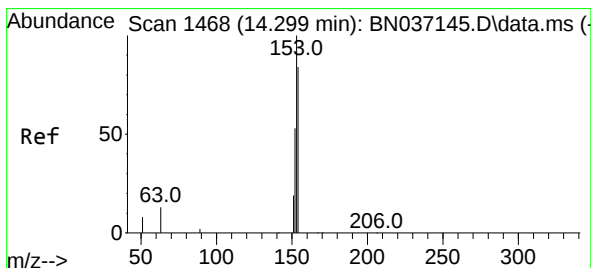
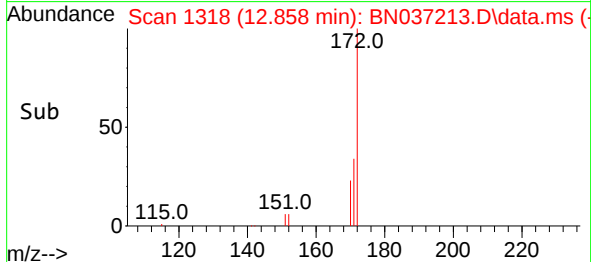
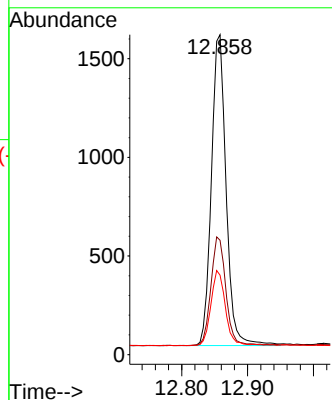
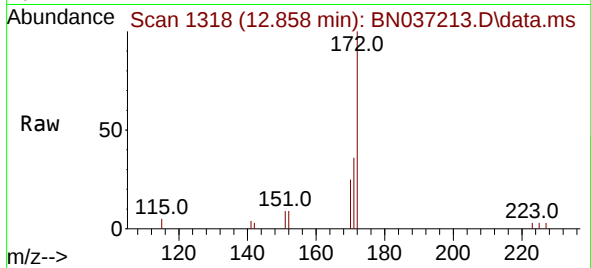




#15  
2-Fluorobiphenyl  
Concen: 0.220 ng  
RT: 12.858 min Scan# 1318  
Delta R.T. -0.005 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

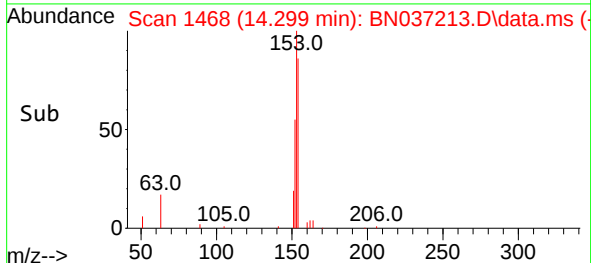
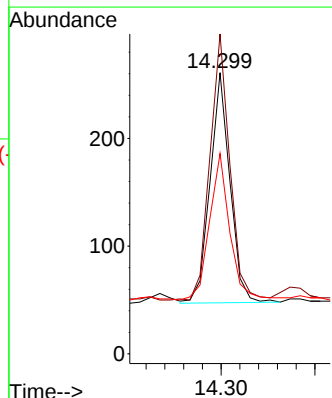
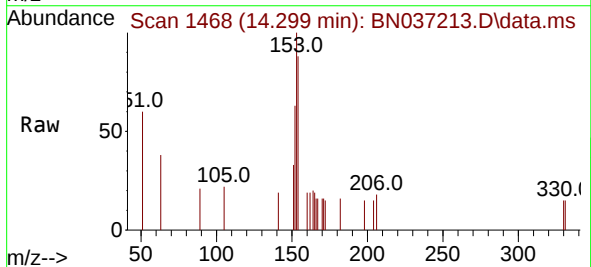
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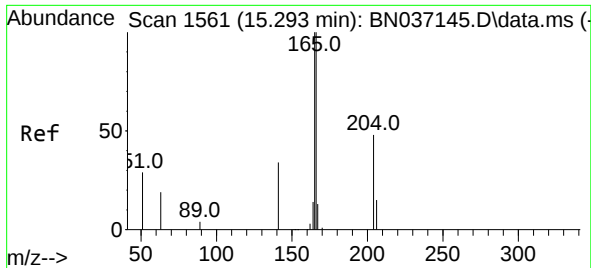
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|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 2439  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 35.8  | 29.6  | 44.4  |
| 170      | 24.8  | 20.3  | 30.5  |



#17  
Acenaphthene  
Concen: 0.038 ng  
RT: 14.299 min Scan# 1468  
Delta R.T. -0.000 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 154   | Resp: | 316   |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 115.2 | 93.8  | 140.8 |
| 152      | 65.2  | 50.5  | 75.7  |

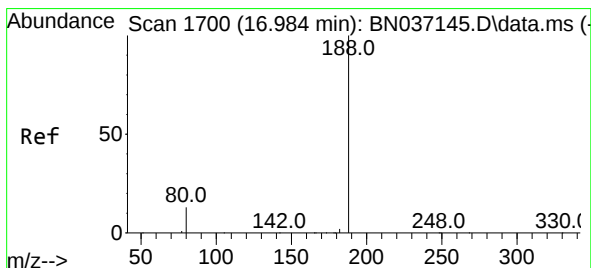
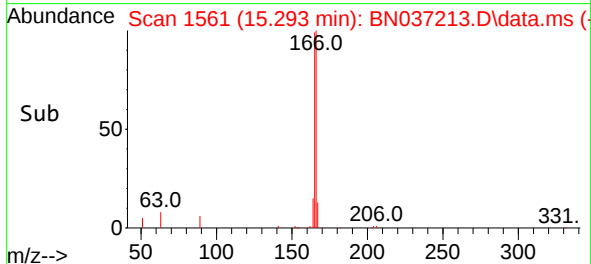
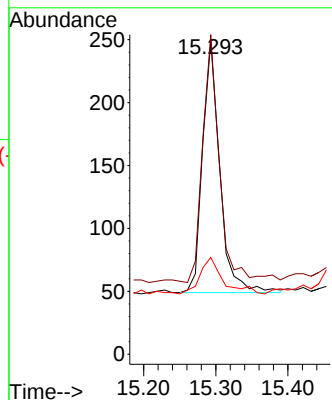
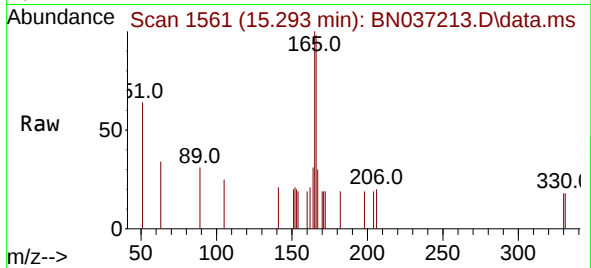




#18  
Fluorene  
Concen: 0.031 ng  
RT: 15.293 min Scan# 1561  
Delta R.T. -0.000 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

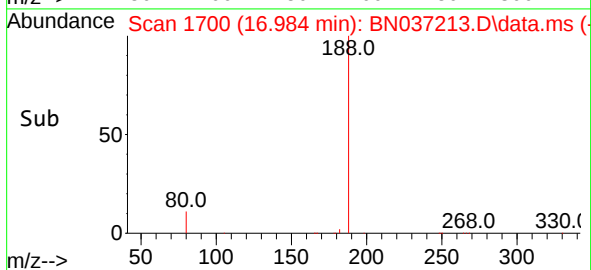
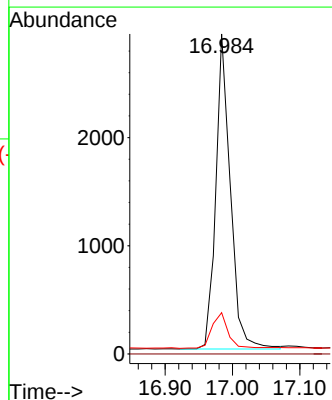
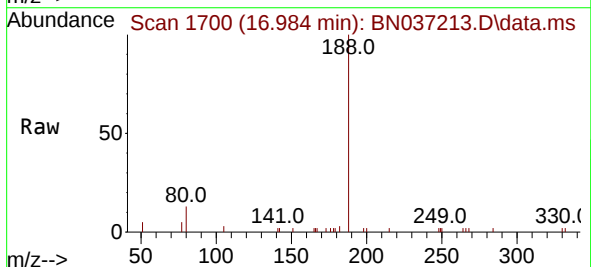
Instrument :  
BNA\_N  
ClientSampleId :  
MW-19B-72-060425DL

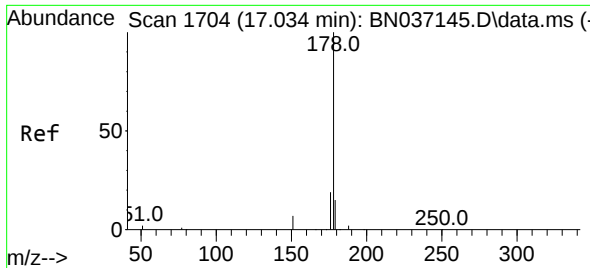
Tgt Ion:166 Resp: 334  
Ion Ratio Lower Upper  
166 100  
165 92.5 81.1 121.7  
167 18.9 10.8 16.2#



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.984 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

Tgt Ion:188 Resp: 4389  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 12.9 11.3 16.9

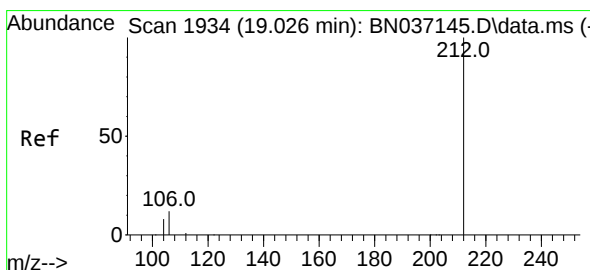
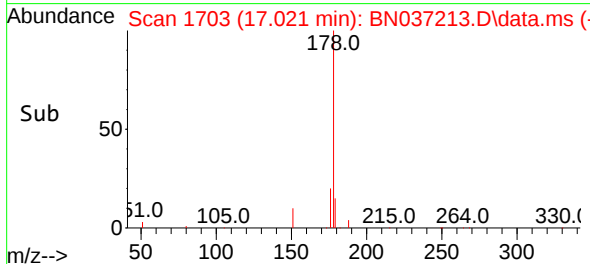
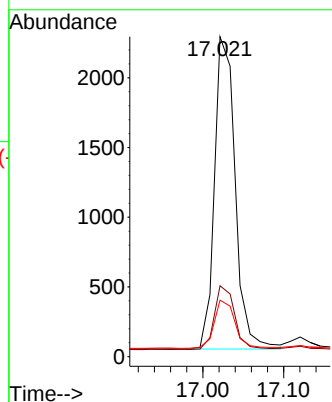
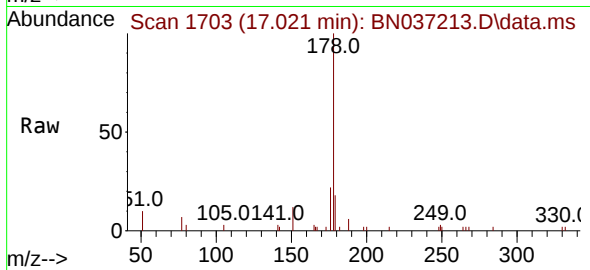




#25  
Phenanthrene  
Concen: 0.280 ng  
RT: 17.021 min Scan# 1703  
Delta R.T. -0.012 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

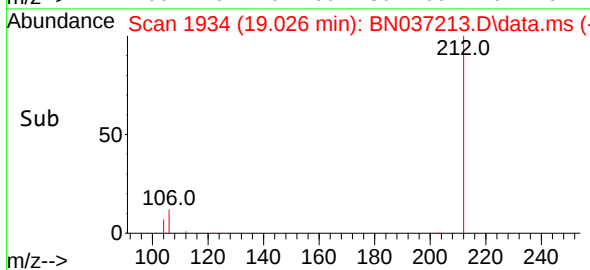
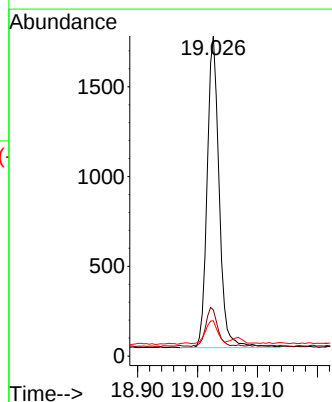
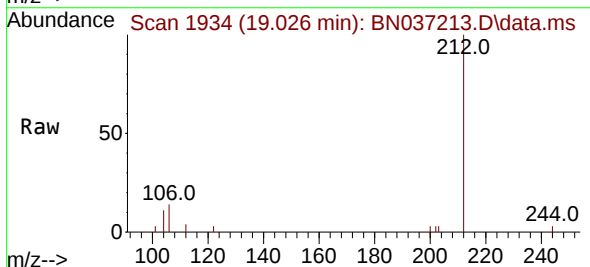
Instrument :  
BNA\_N  
ClientSampleId :  
MW-19B-72-060425DL

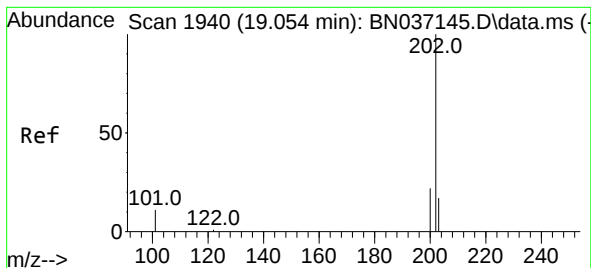
Tgt Ion:178 Resp: 3983  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.7 23.5  
179 15.6 12.3 18.5



#27  
Fluoranthene-d10  
Concen: 0.217 ng  
RT: 19.026 min Scan# 1934  
Delta R.T. -0.000 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

Tgt Ion:212 Resp: 2415  
Ion Ratio Lower Upper  
212 100  
106 12.3 10.6 15.8  
104 7.5 6.6 9.8





#28

Fluoranthene

Concen: 0.186 ng

RT: 19.054 min Scan# 1940

Delta R.T. 0.000 min

Lab File: BN037213.D

Acq: 10 Jun 2025 09:49

Instrument :

BNA\_N

ClientSampleId :

MW-19B-72-060425DL

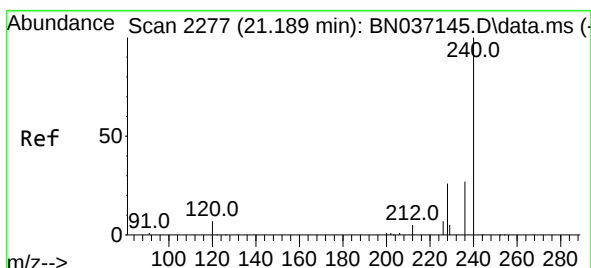
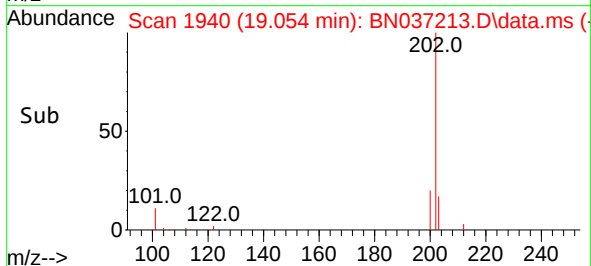
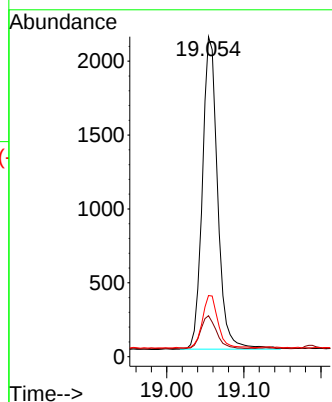
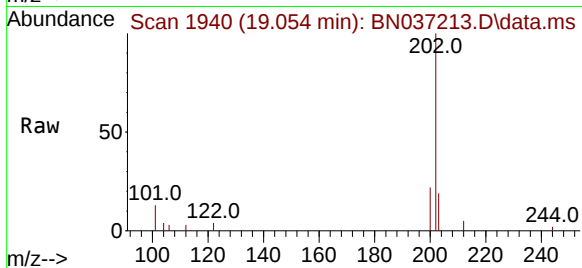
Tgt Ion:202 Resp: 2915

Ion Ratio Lower Upper

202 100

101 10.9 8.7 13.1

203 17.3 13.5 20.3



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.189 min Scan# 2277

Delta R.T. -0.000 min

Lab File: BN037213.D

Acq: 10 Jun 2025 09:49

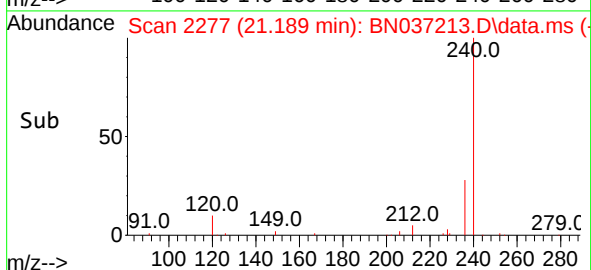
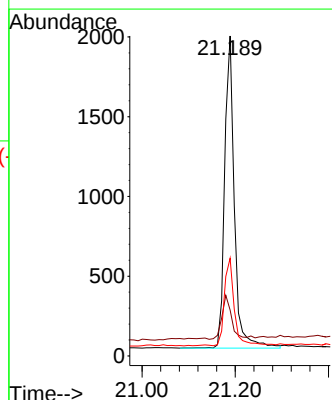
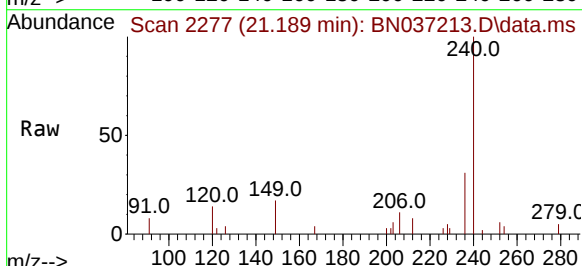
Tgt Ion:240 Resp: 2810

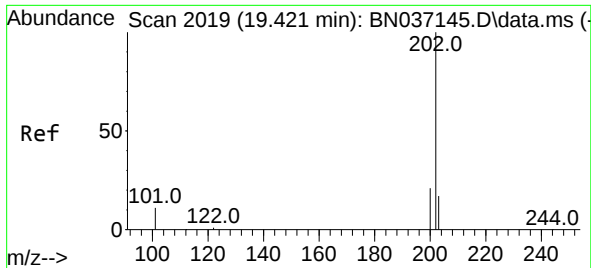
Ion Ratio Lower Upper

240 100

120 14.4 9.0 13.4#

236 30.6 23.0 34.4

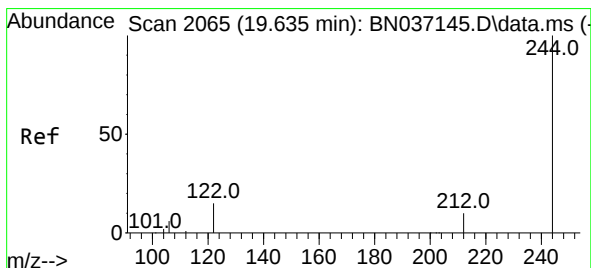
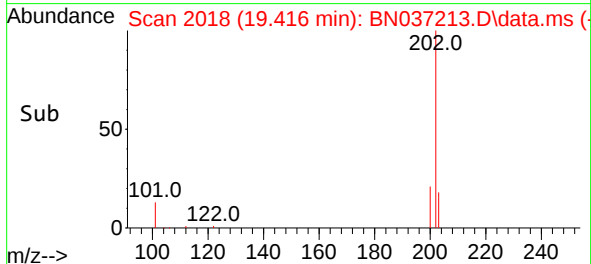
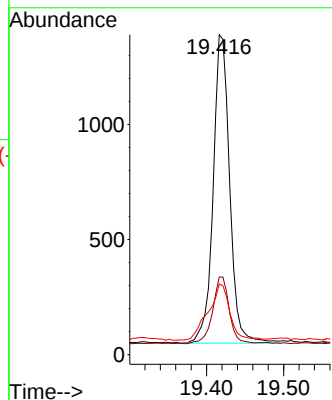
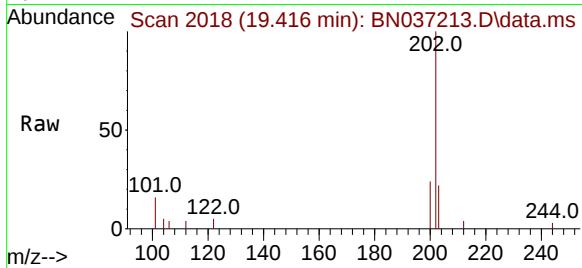




#30  
 Pyrene  
 Concen: 0.146 ng  
 RT: 19.416 min Scan# 2019  
 Delta R.T. -0.005 min  
 Lab File: BN037213.D  
 Acq: 10 Jun 2025 09:49

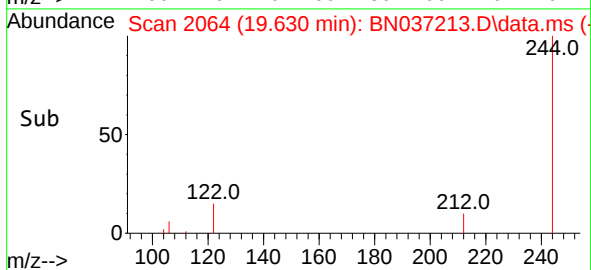
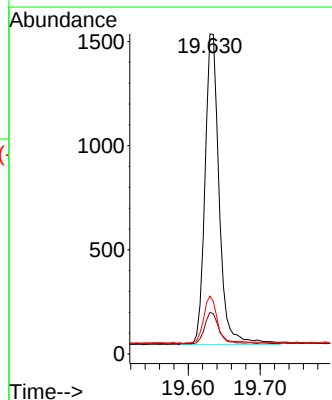
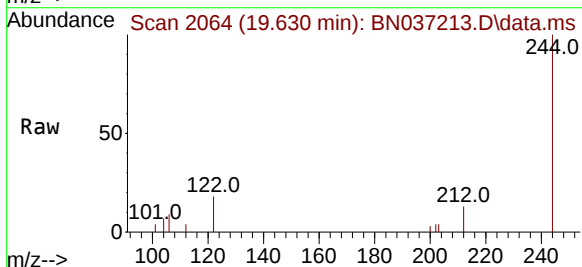
Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW-19B-72-060425DL

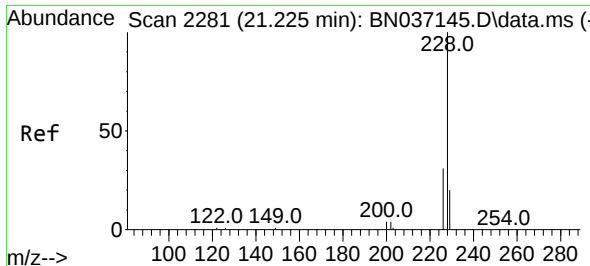
Tgt Ion:202 Resp: 1996  
 Ion Ratio Lower Upper  
 202 100  
 200 21.5 17.0 25.6  
 203 23.7 14.2 21.4#



#31  
 Terphenyl-d14  
 Concen: 0.308 ng  
 RT: 19.630 min Scan# 2064  
 Delta R.T. -0.005 min  
 Lab File: BN037213.D  
 Acq: 10 Jun 2025 09:49

Tgt Ion:244 Resp: 2038  
 Ion Ratio Lower Upper  
 244 100  
 212 13.0 10.0 15.0  
 122 18.0 13.2 19.8

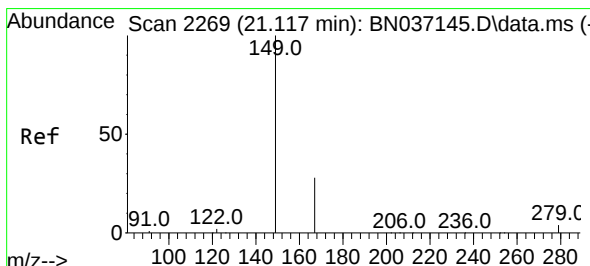
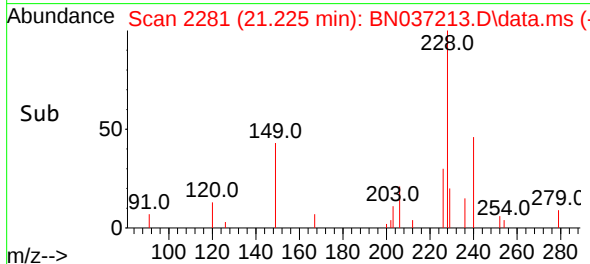
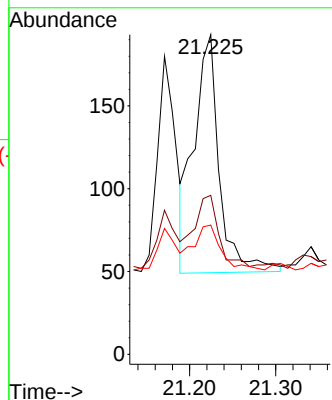
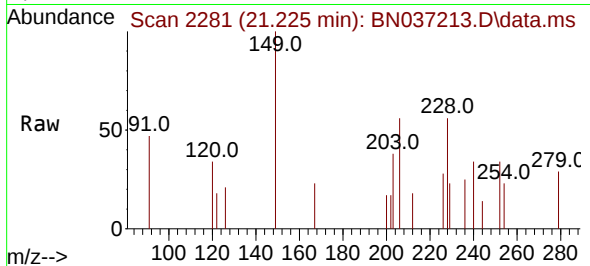




#33  
Chrysene  
Concen: 0.026 ng  
RT: 21.225 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

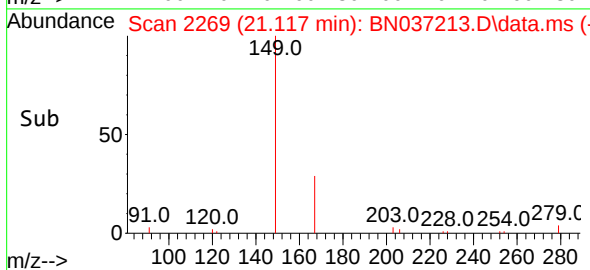
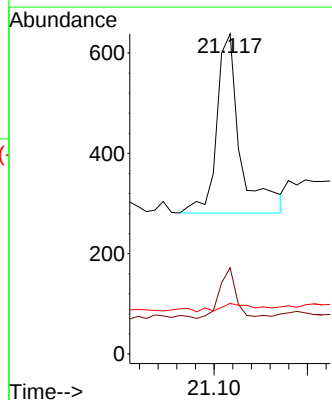
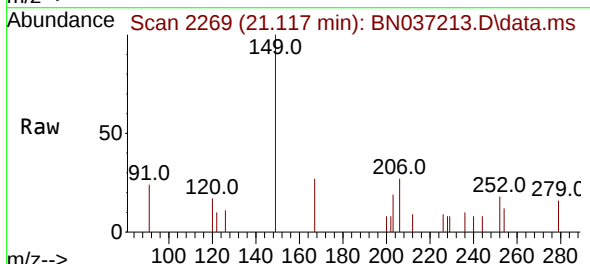
Instrument :  
BNA\_N  
ClientSampleId :  
MW-19B-72-060425DL

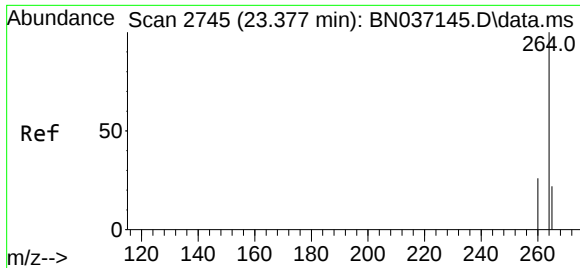
Tgt Ion:228 Resp: 295  
Ion Ratio Lower Upper  
228 100  
226 49.7 25.2 37.8#  
229 40.4 16.8 25.2#



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.097 ng  
RT: 21.117 min Scan# 2269  
Delta R.T. -0.000 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

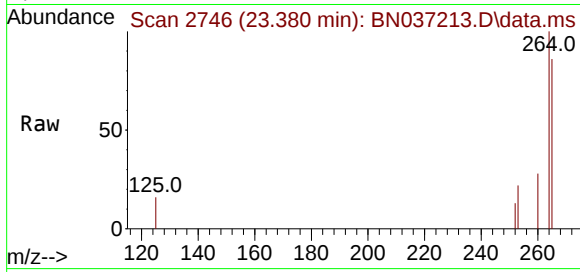
Tgt Ion:149 Resp: 620  
Ion Ratio Lower Upper  
149 100  
167 20.0 21.0 31.4#  
279 7.6 2.9 4.3#





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.380 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BN037213.D  
Acq: 10 Jun 2025 09:49

Instrument :  
BNA\_N  
ClientSampleId :  
MW-19B-72-060425DL



Tgt Ion:264 Resp: 2751  
Ion Ratio Lower Upper  
264 100  
260 28.4 22.1 33.1  
265 85.6 55.8 83.8#

