

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN030525\  
 Data File : BN036526.D  
 Acq On : 05 Mar 2025 16:18  
 Operator : RC/JU  
 Sample : Q1477-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP100-20250228

Quant Time: Mar 05 17:02:10 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN021025.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 05 16:08:57 2025  
 Response via : Initial Calibration

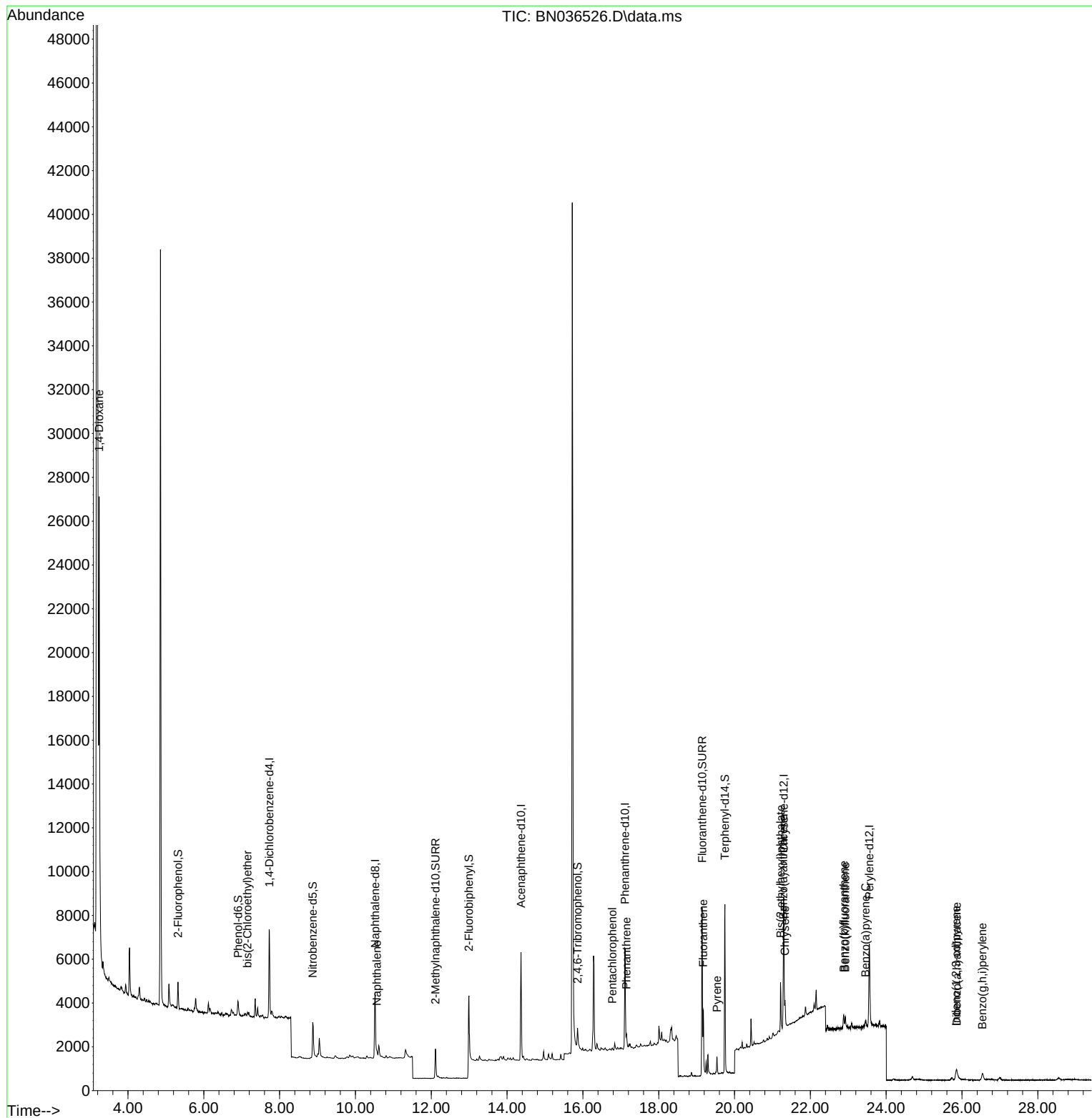
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.731  | 152  | 2030     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.519 | 136  | 4623     | 0.400 | ng    | 0.01     |
| 13) Acenaphthene-d10          | 14.366 | 164  | 2883     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.111 | 188  | 6253     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.294 | 240  | 6117     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.554 | 264  | 5519     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.319  | 112  | 863      | 0.180 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.908  | 99   | 606      | 0.108 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.875  | 82   | 1668     | 0.366 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.110 | 152  | 2244     | 0.316 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.857 | 330  | 556      | 0.389 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.993 | 172  | 5600     | 0.517 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.145 | 212  | 8827     | 0.508 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.745 | 244  | 7115     | 0.545 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.239  | 88   | 9948     | 4.479 | ng    | 97       |
| 6) bis(2-Chloroethyl)ether    | 7.153  | 93   | 148      | 0.025 | ng    | # 91     |
| 9) Naphthalene                | 10.562 | 128  | 363      | 0.027 | ng    | # 44     |
| 24) Pentachlorophenol         | 16.776 | 266  | 65       | 0.030 | ng    | # 83     |
| 25) Phenanthrene              | 17.148 | 178  | 611      | 0.034 | ng    | # 96     |
| 28) Fluoranthene              | 19.173 | 202  | 783      | 0.035 | ng    | # 1      |
| 30) Pyrene                    | 19.536 | 202  | 719      | 0.031 | ng    | 98       |
| 32) Benzo(a)anthracene        | 21.285 | 228  | 627      | 0.031 | ng    | # 80     |
| 33) Chrysene                  | 21.330 | 228  | 768      | 0.035 | ng    | # 85     |
| 34) Bis(2-ethylhexyl)phtha... | 21.214 | 149  | 2328     | 0.186 | ng    | # 96     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.846 | 276  | 782      | 0.041 | ng    | # 83     |
| 37) Benzo(b)fluoranthene      | 22.879 | 252  | 759      | 0.042 | ng    | # 15     |
| 38) Benzo(k)fluoranthene      | 22.922 | 252  | 737      | 0.039 | ng    | # 10     |
| 39) Benzo(a)pyrene            | 23.455 | 252  | 459      | 0.029 | ng    | # 1      |
| 40) Dibenzo(a,h)anthracene    | 25.864 | 278  | 594      | 0.039 | ng    | # 2      |
| 41) Benzo(g,h,i)perylene      | 26.536 | 276  | 718      | 0.042 | ng    | # 60     |
| -----                         |        |      |          |       |       |          |

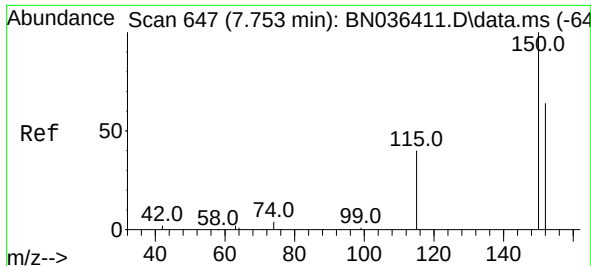
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN030525\  
Data File : BN036526.D  
Acq On : 05 Mar 2025 16:18  
Operator : RC/JU  
Sample : Q1477-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20250228

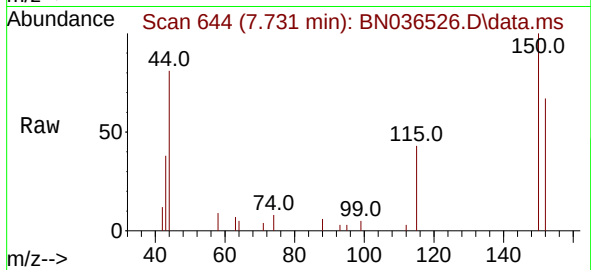
Quant Time: Mar 05 17:02:10 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN021025.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 05 16:08:57 2025  
Response via : Initial Calibration



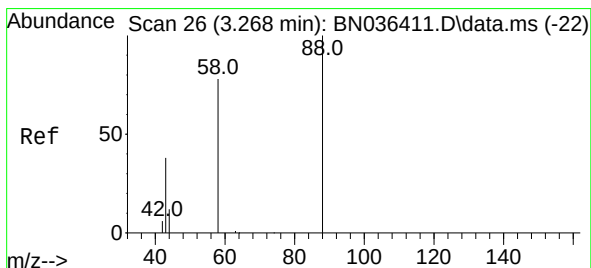
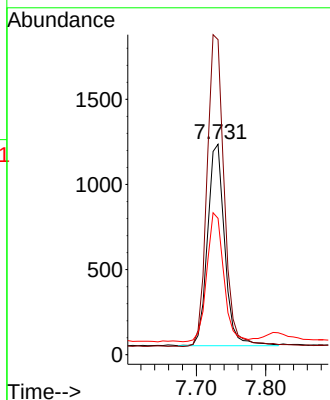
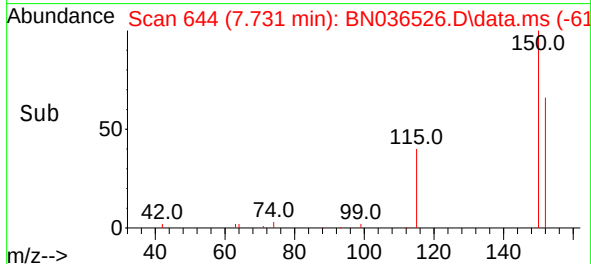


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.731 min Scan# 64  
Delta R.T. -0.001 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18

Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20250228

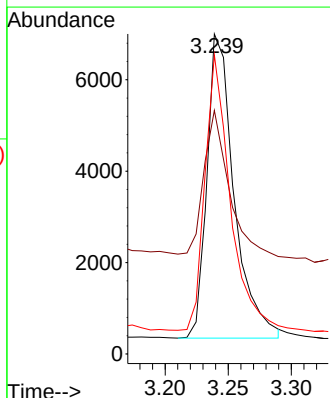
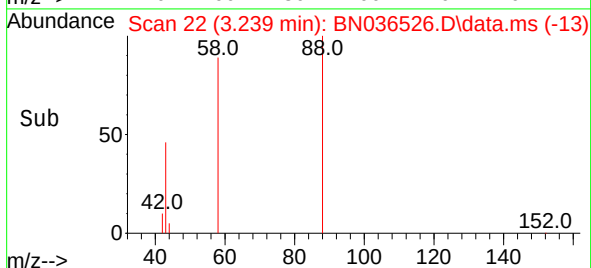
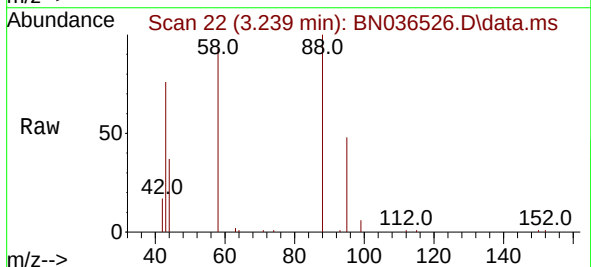


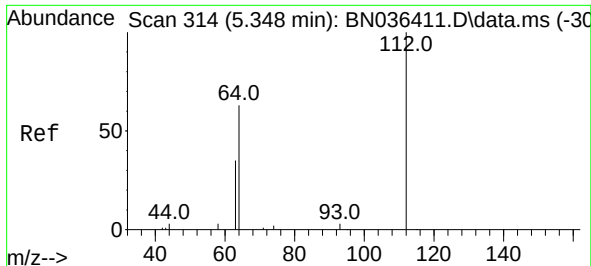
Tgt Ion:152 Resp: 2030  
Ion Ratio Lower Upper  
152 100  
150 149.8 123.7 185.5  
115 64.8 52.5 78.7



#2  
1,4-Dioxane  
Concen: 4.479 ng  
RT: 3.239 min Scan# 22  
Delta R.T. -0.008 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18

Tgt Ion: 88 Resp: 9948  
Ion Ratio Lower Upper  
88 100  
43 44.6 33.7 50.5  
58 84.0 68.9 103.3





#4

2-Fluorophenol

Concen: 0.180 ng

RT: 5.319 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN036526.D

Acq: 05 Mar 2025 16:18

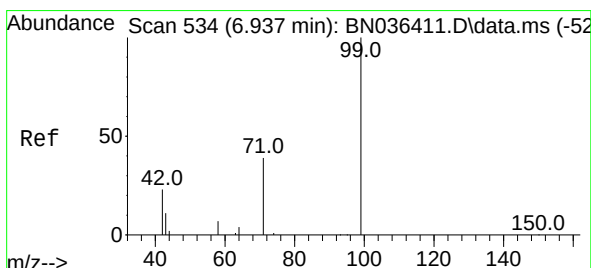
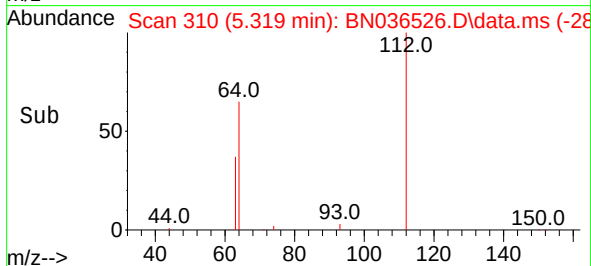
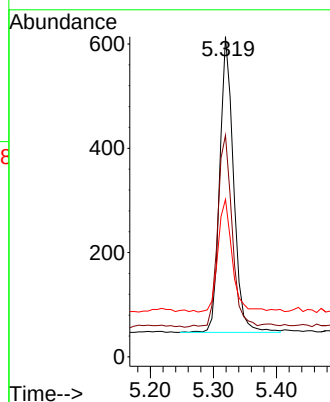
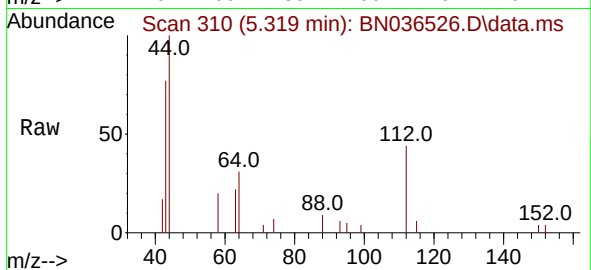
Instrument :

BNA\_N

ClientSampleId :

RW7-SP100-20250228

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 863  |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 64        | 67.8  | 53.4  | 80.0 |
| 63        | 39.7  | 30.3  | 45.5 |



#5

Phenol-d6

Concen: 0.108 ng

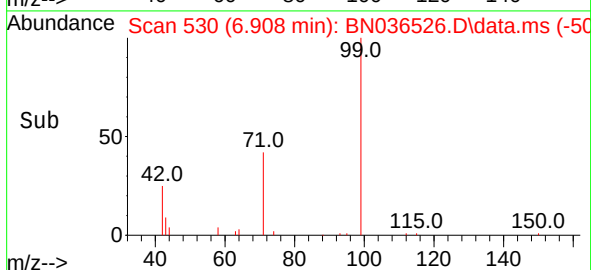
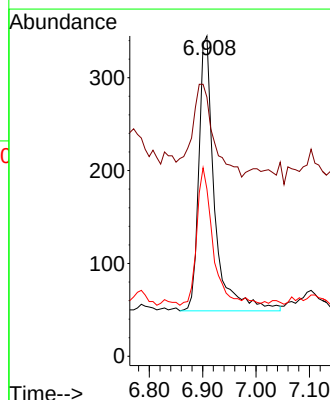
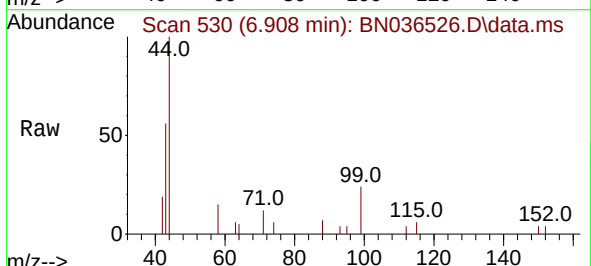
RT: 6.908 min Scan# 530

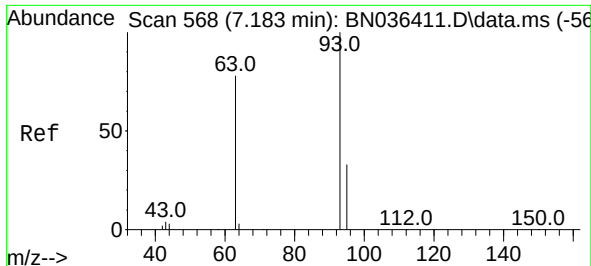
Delta R.T. 0.007 min

Lab File: BN036526.D

Acq: 05 Mar 2025 16:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 99    | Resp: | 606   |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 45.5  | 21.7  | 32.5# |
| 71        | 50.5  | 32.6  | 49.0# |

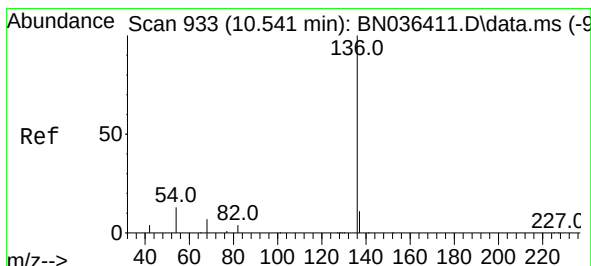
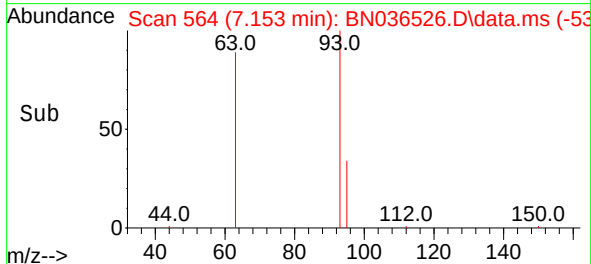
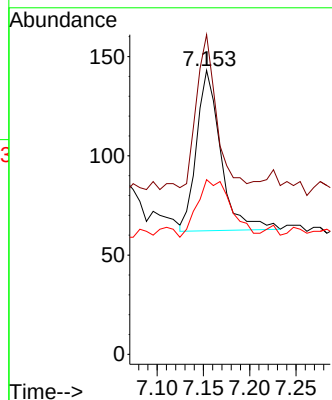
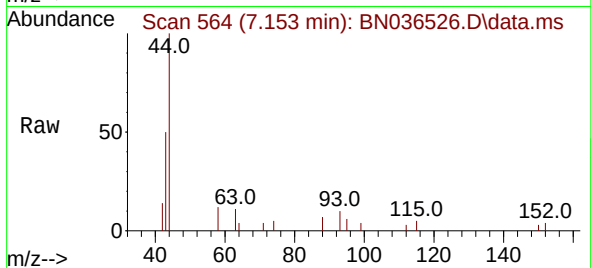




#6  
bis(2-Chloroethyl)ether  
Concen: 0.025 ng  
RT: 7.153 min Scan# 568  
Delta R.T. -0.000 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18

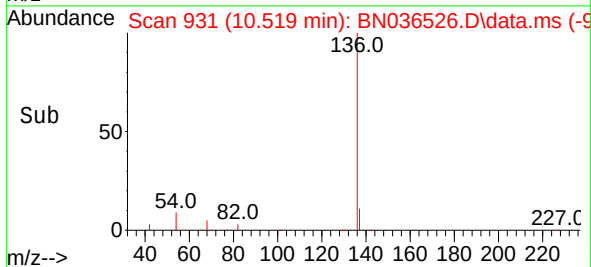
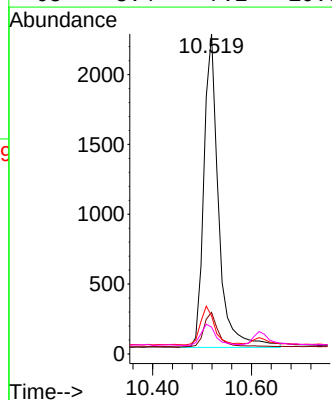
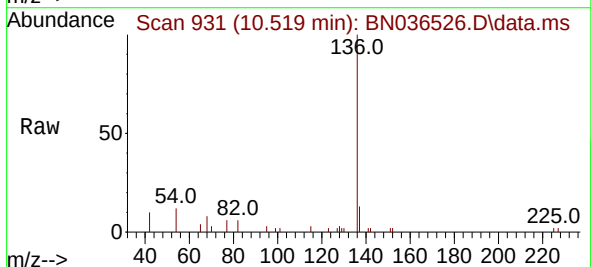
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20250228

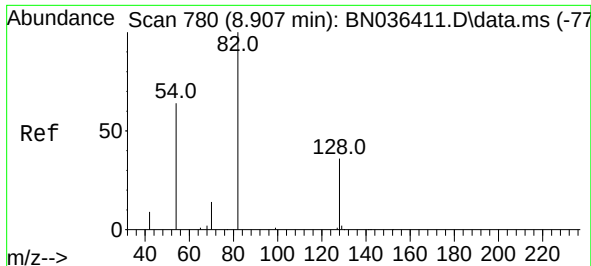
Tgt Ion: 93 Resp: 148  
Ion Ratio Lower Upper  
93 100  
63 82.4 66.3 99.5  
95 50.0 26.2 39.4#



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.519 min Scan# 931  
Delta R.T. 0.010 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18

Tgt Ion: 136 Resp: 4623  
Ion Ratio Lower Upper  
136 100  
137 13.0 10.1 15.1  
54 11.9 11.8 17.6  
68 8.4 7.2 10.8

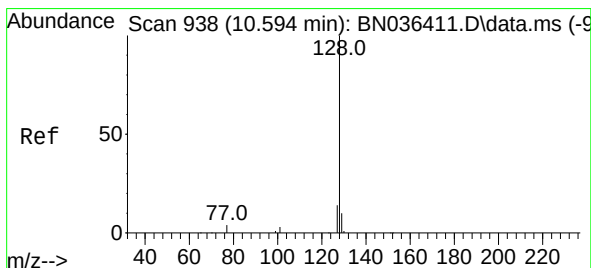
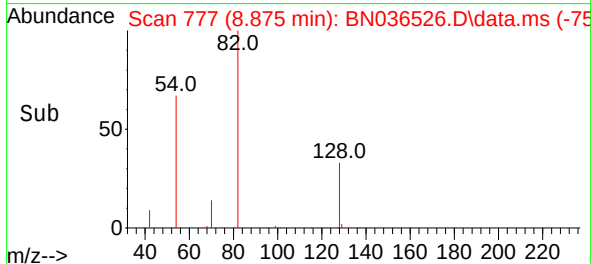
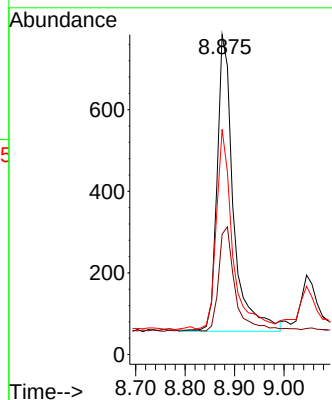
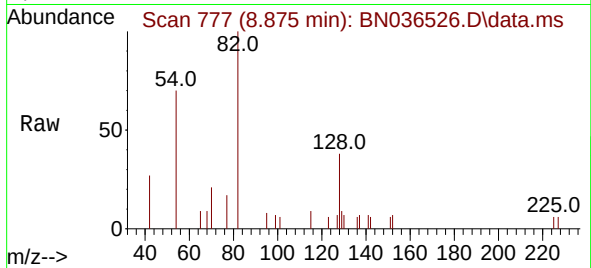




#8  
Nitrobenzene-d5  
Concen: 0.366 ng  
RT: 8.875 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18

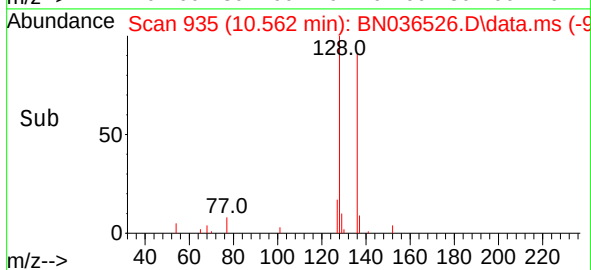
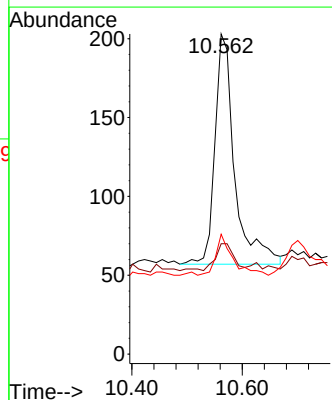
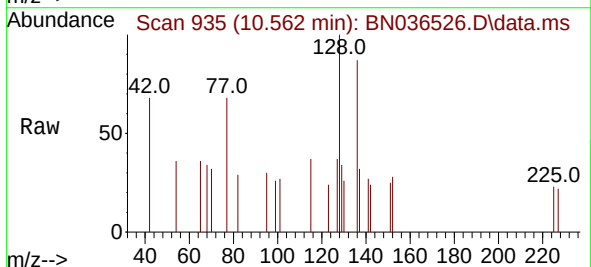
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20250228

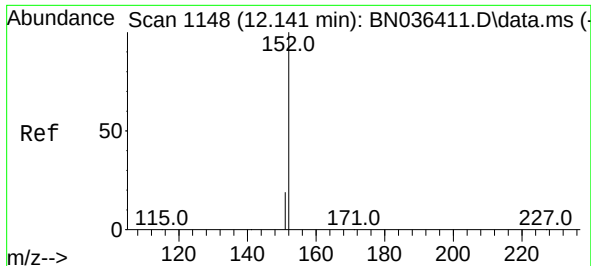
Tgt Ion: 82 Resp: 1668  
Ion Ratio Lower Upper  
82 100  
128 37.6 31.9 47.9  
54 70.4 53.1 79.7



#9  
Naphthalene  
Concen: 0.027 ng  
RT: 10.562 min Scan# 935  
Delta R.T. -0.000 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18

Tgt Ion: 128 Resp: 363  
Ion Ratio Lower Upper  
128 100  
129 34.5 9.6 14.4#  
127 37.4 12.0 18.0#





#11

2-Methylnaphthalene-d10

Concen: 0.316 ng

RT: 12.110 min Scan# 1142

Delta R.T. 0.005 min

Lab File: BN036526.D

Acq: 05 Mar 2025 16:18

Instrument :

BNA\_N

ClientSampleId :

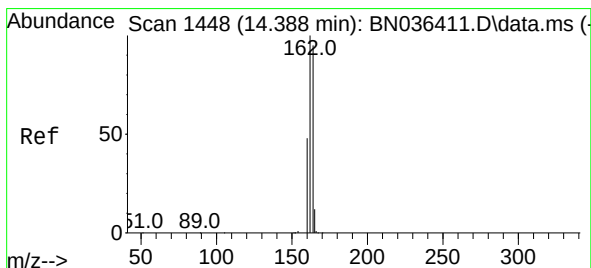
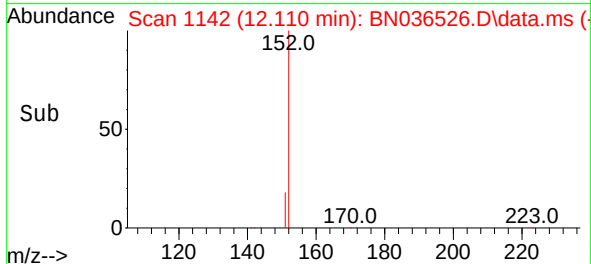
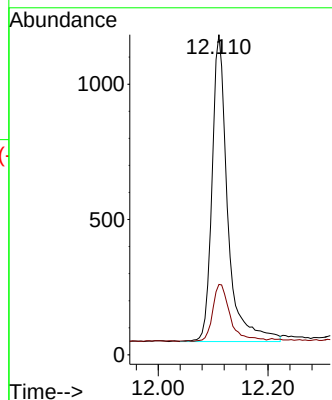
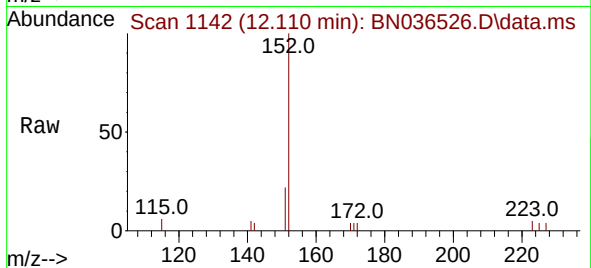
RW7-SP100-20250228

Tgt Ion:152 Resp: 2244

Ion Ratio Lower Upper

152 100

151 20.6 16.6 25.0



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.366 min Scan# 1446

Delta R.T. -0.000 min

Lab File: BN036526.D

Acq: 05 Mar 2025 16:18

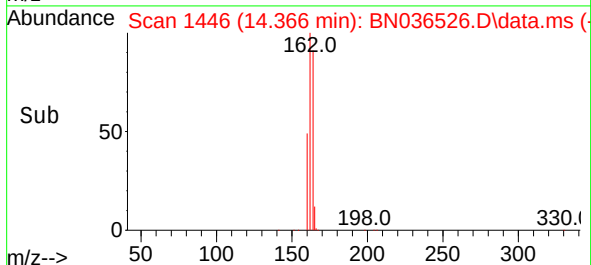
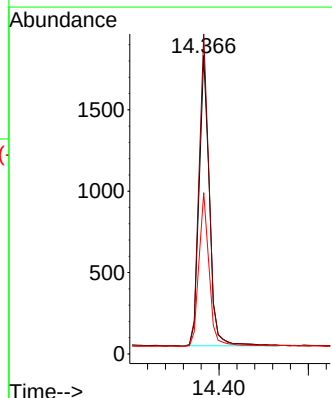
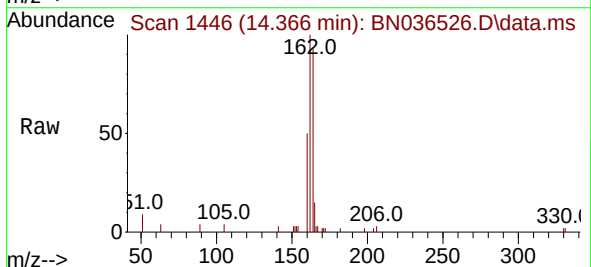
Tgt Ion:164 Resp: 2883

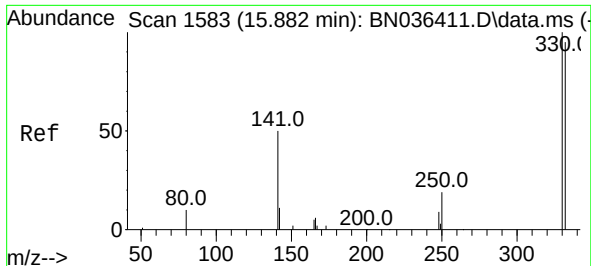
Ion Ratio Lower Upper

164 100

162 107.3 84.1 126.1

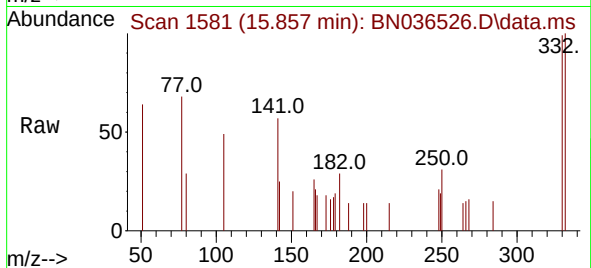
160 54.1 41.4 62.0



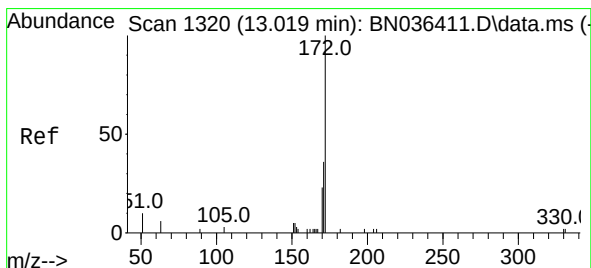
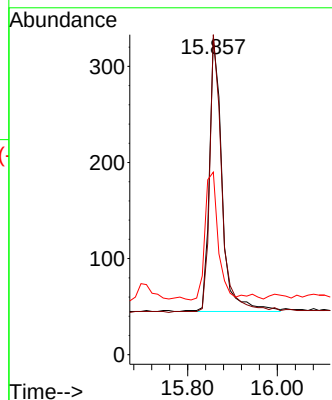
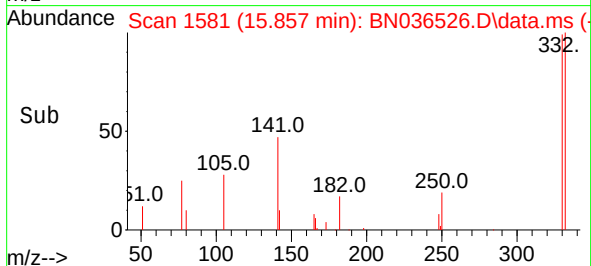


#14  
2,4,6-Tribromophenol  
Concen: 0.389 ng  
RT: 15.857 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18

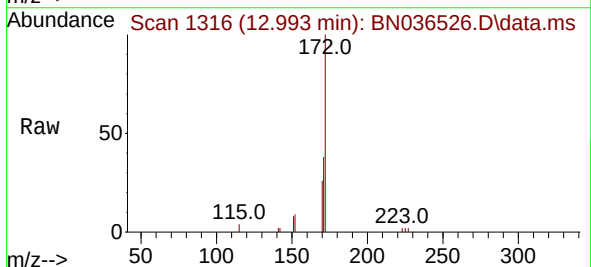
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20250228



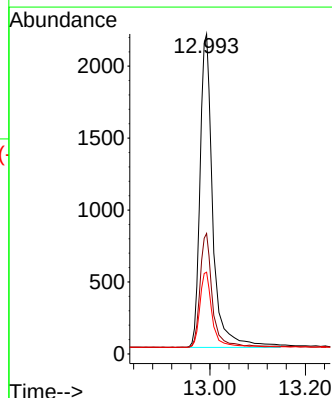
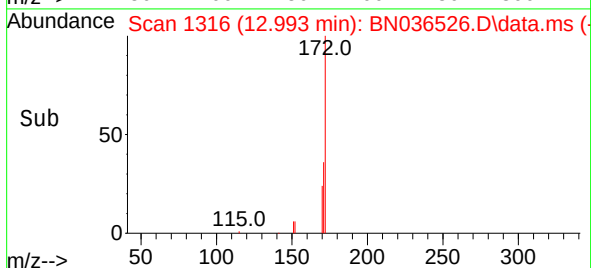
Tgt Ion:330 Resp: 556  
Ion Ratio Lower Upper  
330 100  
332 96.2 76.6 114.8  
141 48.6 37.8 56.8



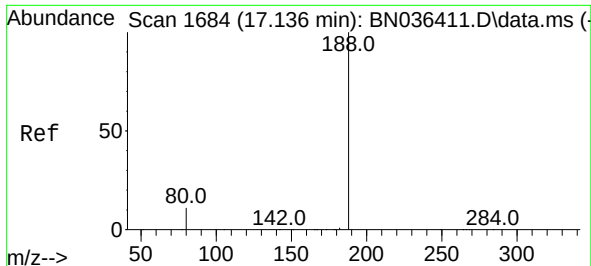
#15  
2-Fluorobiphenyl  
Concen: 0.517 ng  
RT: 12.993 min Scan# 1316  
Delta R.T. 0.005 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18



Tgt Ion:172 Resp: 5600  
Ion Ratio Lower Upper  
172 100  
171 37.6 29.6 44.4  
170 25.5 19.8 29.6







#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.111 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036526.D

Acq: 05 Mar 2025 16:18

Instrument :

BNA\_N

ClientSampleId :

RW7-SP100-20250228

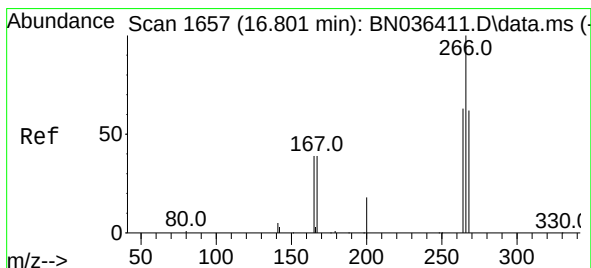
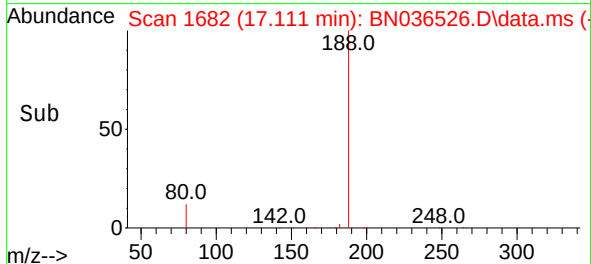
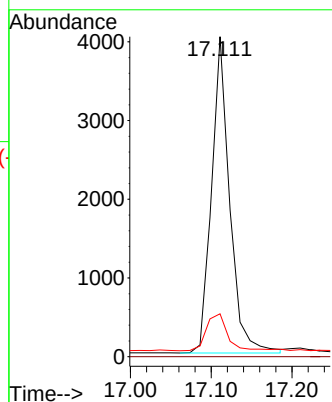
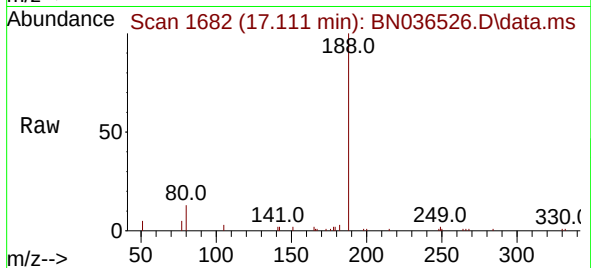
Tgt Ion:188 Resp: 6253

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.4 9.8 14.6



#24

Pentachlorophenol

Concen: 0.030 ng

RT: 16.776 min Scan# 1655

Delta R.T. 0.012 min

Lab File: BN036526.D

Acq: 05 Mar 2025 16:18

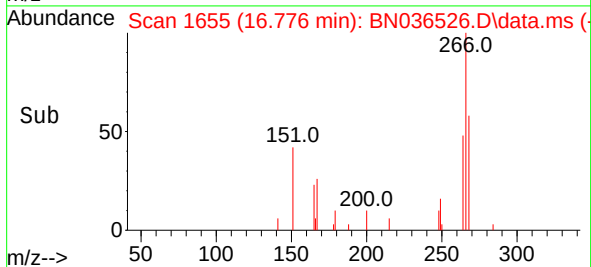
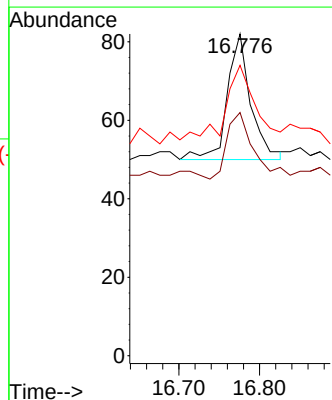
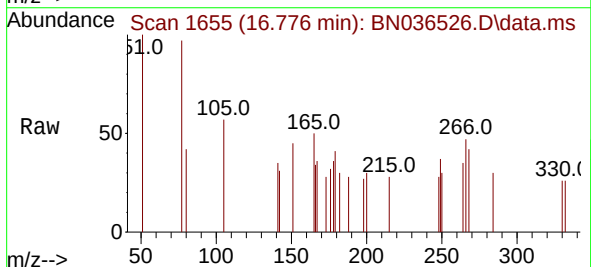
Tgt Ion:266 Resp: 65

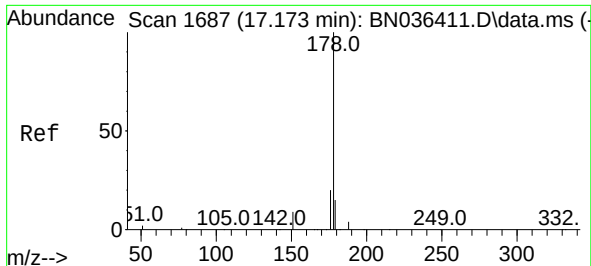
Ion Ratio Lower Upper

266 100

264 60.0 50.6 76.0

268 87.7 51.9 77.9#

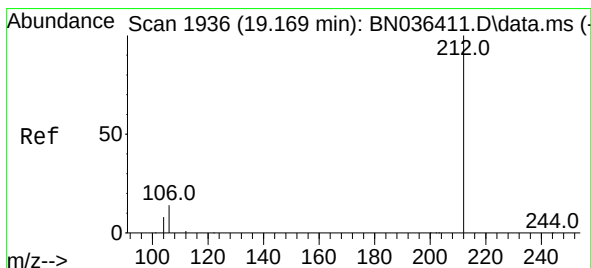
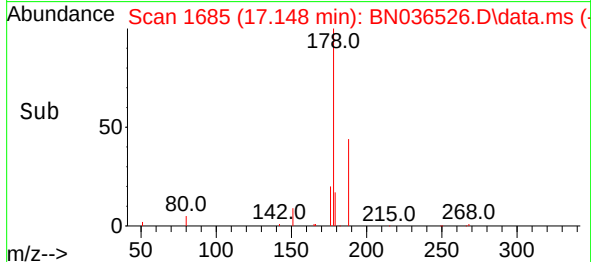
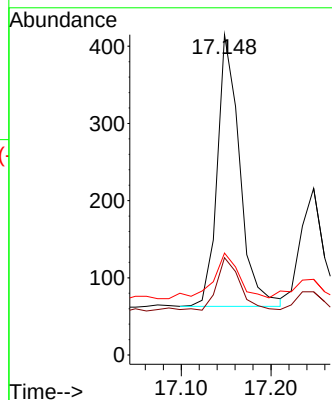
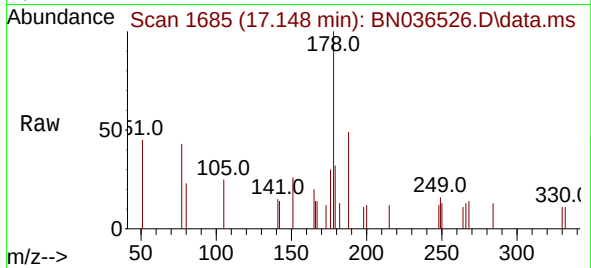




#25  
Phenanthrene  
Concen: 0.034 ng  
RT: 17.148 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18

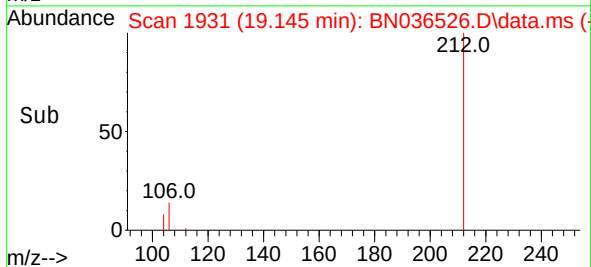
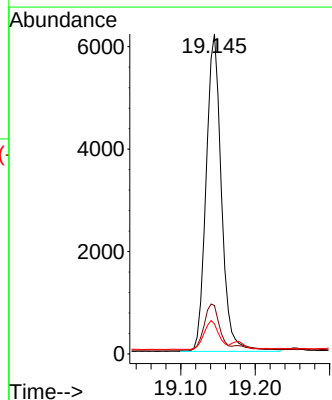
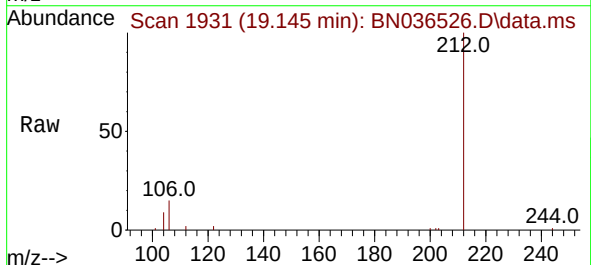
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20250228

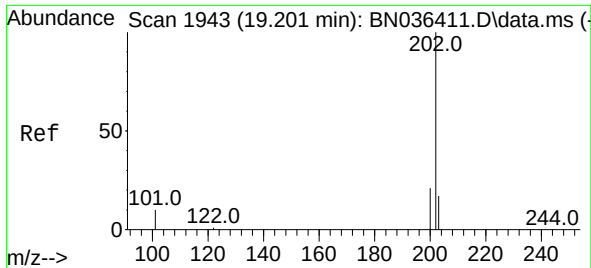
Tgt Ion:178 Resp: 611  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.7 23.5  
179 19.3 12.4 18.6#



#27  
Fluoranthene-d10  
Concen: 0.508 ng  
RT: 19.145 min Scan# 1931  
Delta R.T. 0.004 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18

Tgt Ion:212 Resp: 8827  
Ion Ratio Lower Upper  
212 100  
106 14.7 11.5 17.3  
104 8.8 7.1 10.7

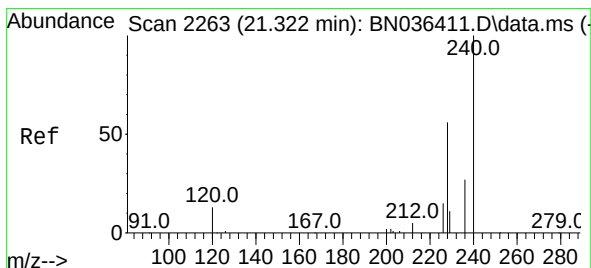
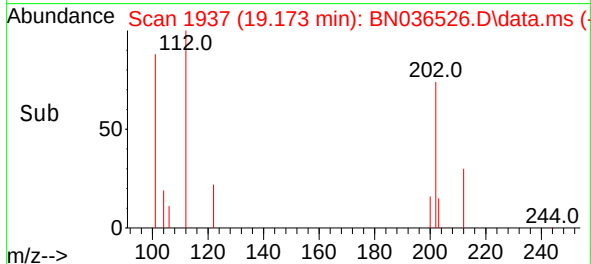
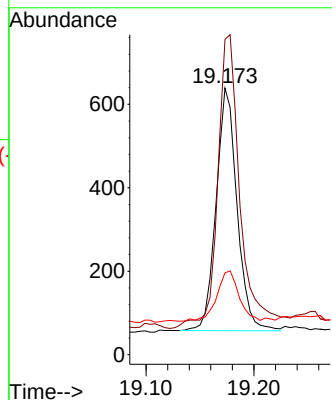
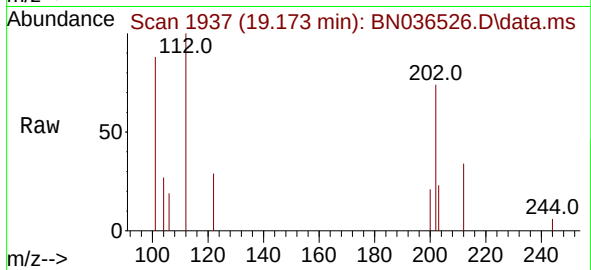




#28  
Fluoranthene  
Concen: 0.035 ng  
RT: 19.173 min Scan# 1937  
Delta R.T. -0.000 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18

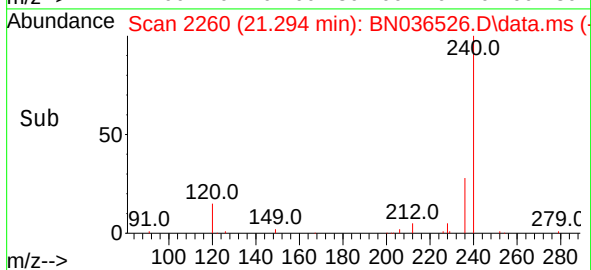
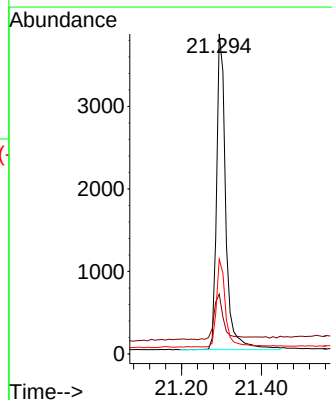
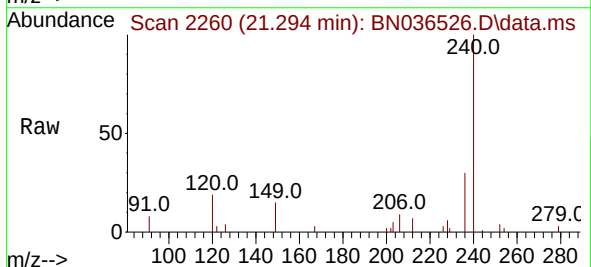
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20250228

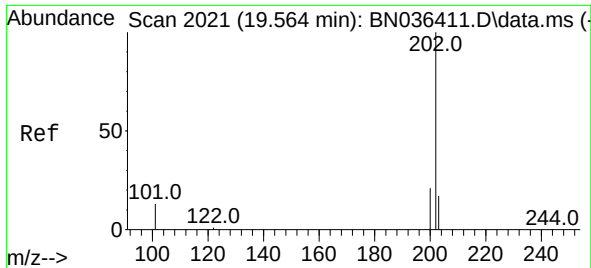
Tgt Ion:202 Resp: 783  
Ion Ratio Lower Upper  
202 100  
101 131.2 9.2 13.8#  
203 22.1 13.4 20.0#



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.294 min Scan# 2260  
Delta R.T. -0.000 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18

Tgt Ion:240 Resp: 6117  
Ion Ratio Lower Upper  
240 100  
120 18.7 13.3 19.9  
236 29.6 23.0 34.6

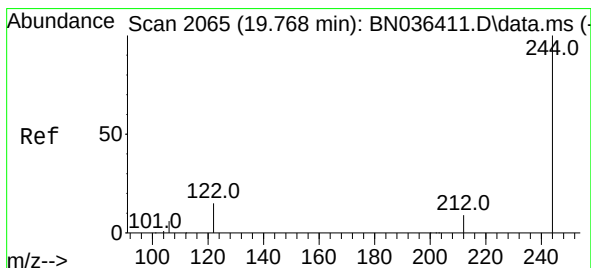
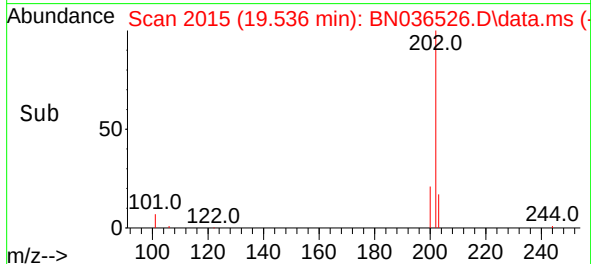
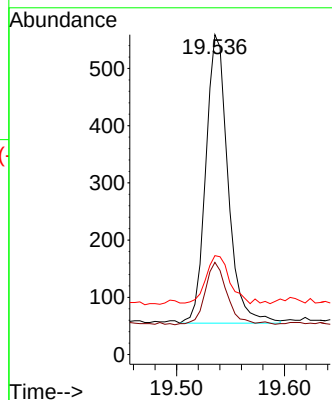
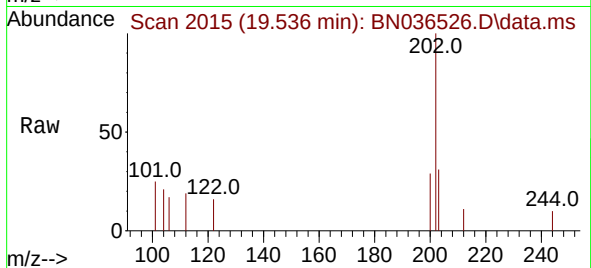




#30  
Pyrene  
Concen: 0.031 ng  
RT: 19.536 min Scan# 2015  
Delta R.T. -0.000 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18

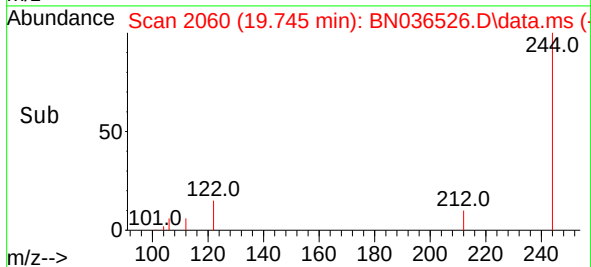
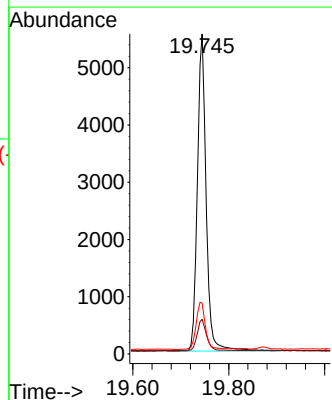
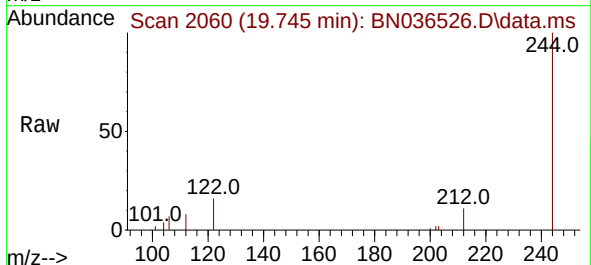
Instrument :  
BNA\_N  
ClientSampleId :  
RW7-SP100-20250228

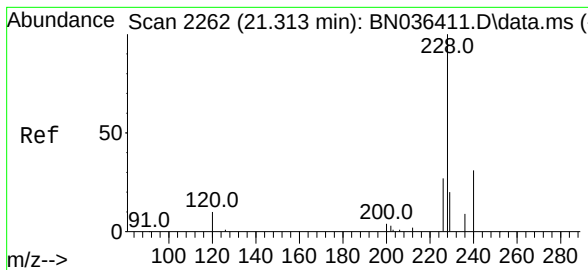
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 719  |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 21.8  | 16.9  | 25.3 |
| 203       | 18.2  | 13.9  | 20.9 |



#31  
Terphenyl-d14  
Concen: 0.545 ng  
RT: 19.745 min Scan# 2060  
Delta R.T. -0.000 min  
Lab File: BN036526.D  
Acq: 05 Mar 2025 16:18

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 244   | Resp: | 7115 |
| Ion Ratio | Lower | Upper |      |
| 244       | 100   |       |      |
| 212       | 10.8  | 8.1   | 12.1 |
| 122       | 15.9  | 12.8  | 19.2 |





#32

Benzo(a)anthracene

Concen: 0.031 ng

RT: 21.285 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036526.D

Acq: 05 Mar 2025 16:18

Instrument :

BNA\_N

ClientSampleId :

RW7-SP100-20250228

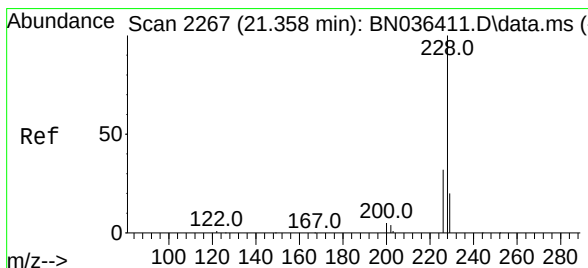
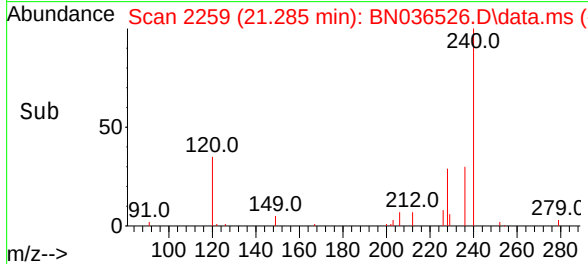
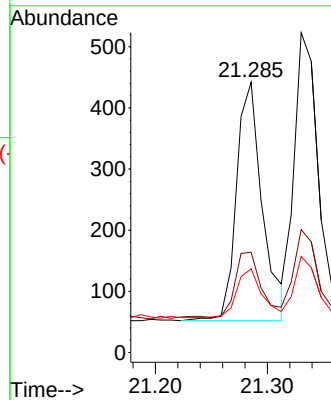
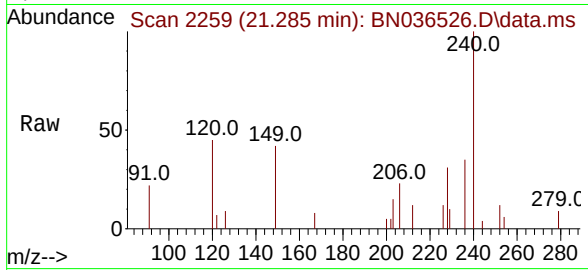
Tgt Ion:228 Resp: 627

Ion Ratio Lower Upper

228 100

226 37.1 22.2 33.2#

229 31.0 16.5 24.7#



#33

Chrysene

Concen: 0.035 ng

RT: 21.330 min Scan# 2264

Delta R.T. -0.000 min

Lab File: BN036526.D

Acq: 05 Mar 2025 16:18

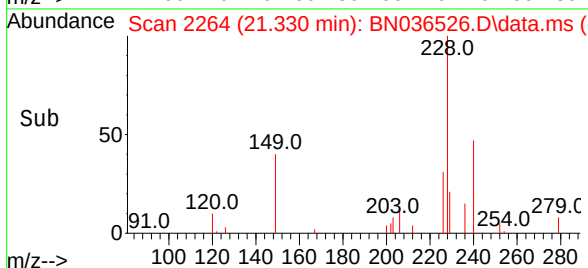
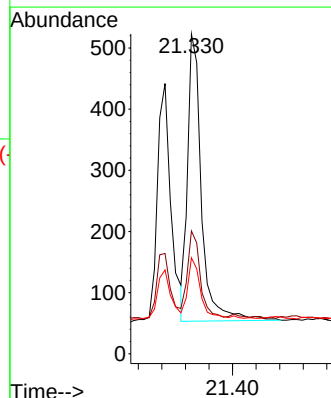
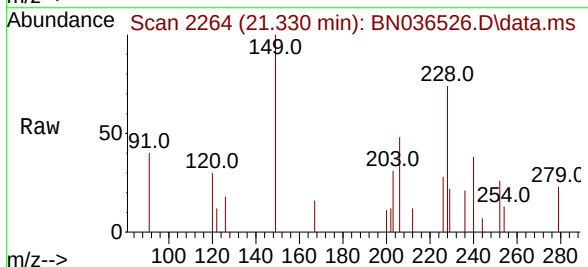
Tgt Ion:228 Resp: 768

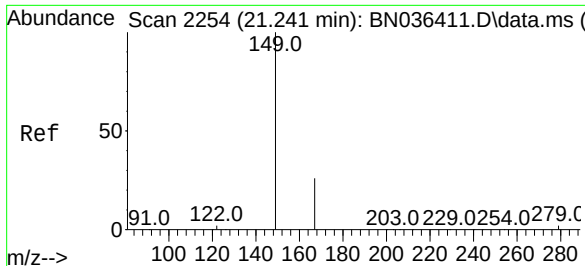
Ion Ratio Lower Upper

228 100

226 38.4 25.5 38.3#

229 30.0 16.4 24.6#

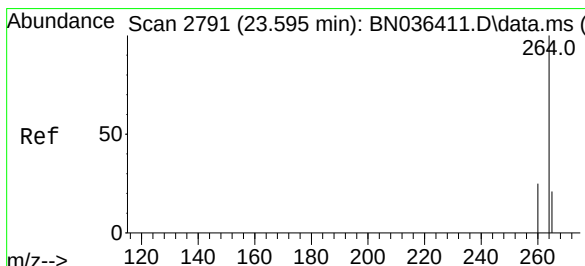
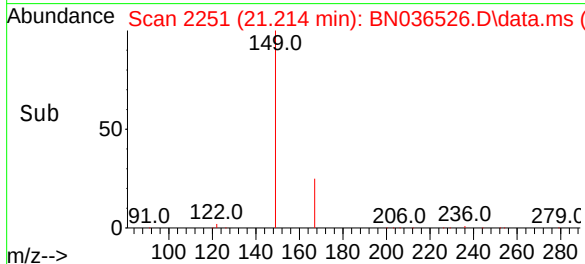
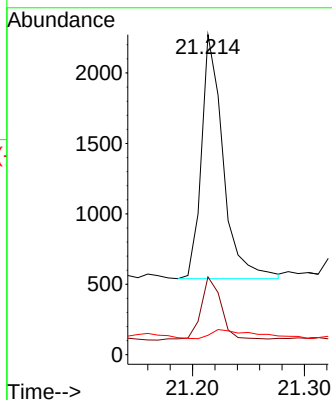
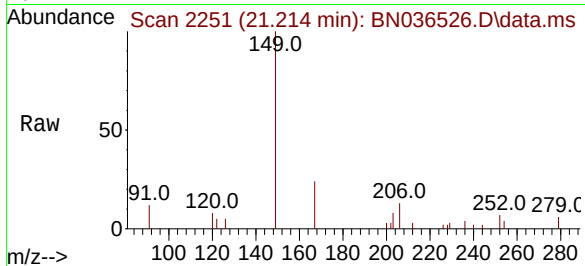




#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.186 ng  
 RT: 21.214 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: BN036526.D  
 Acq: 05 Mar 2025 16:18

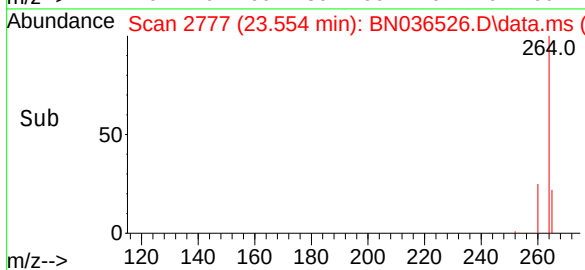
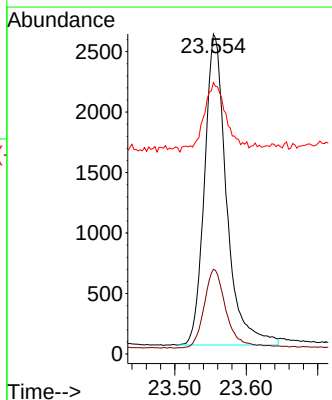
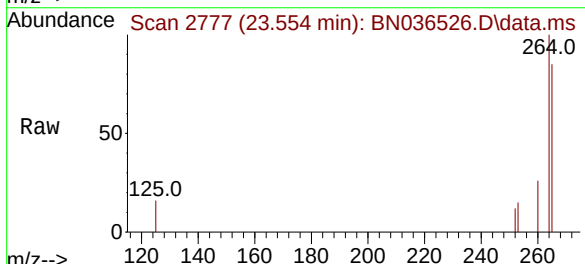
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP100-20250228

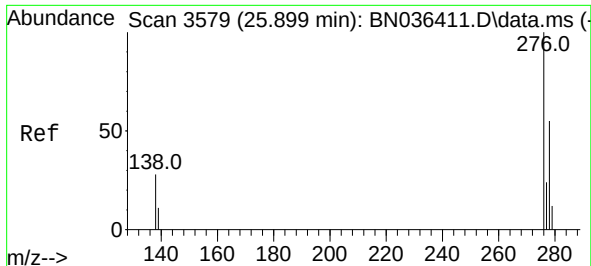
Tgt Ion:149 Resp: 2328  
 Ion Ratio Lower Upper  
 149 100  
 167 24.7 21.2 31.8  
 279 7.0 2.7 4.1#



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.554 min Scan# 2777  
 Delta R.T. 0.003 min  
 Lab File: BN036526.D  
 Acq: 05 Mar 2025 16:18

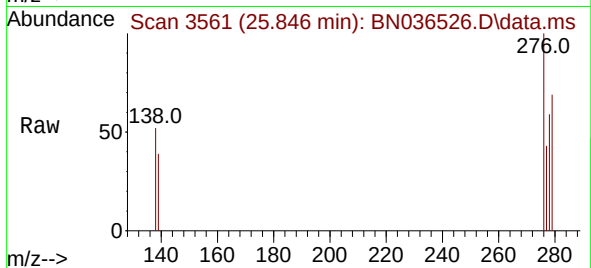
Tgt Ion:264 Resp: 5519  
 Ion Ratio Lower Upper  
 264 100  
 260 26.5 20.9 31.3  
 265 84.8 60.7 91.1



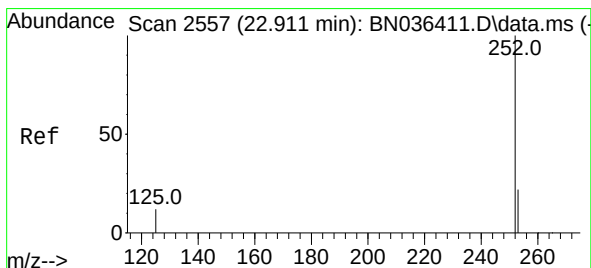
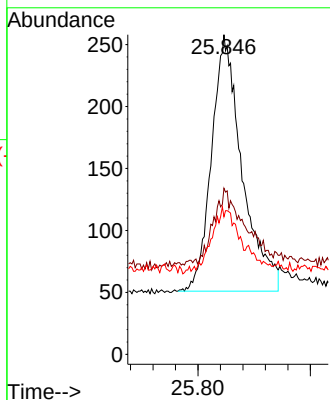
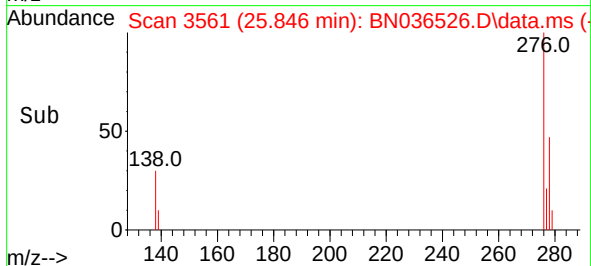


#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.041 ng  
 RT: 25.846 min Scan# 3561  
 Delta R.T. 0.008 min  
 Lab File: BN036526.D  
 Acq: 05 Mar 2025 16:18

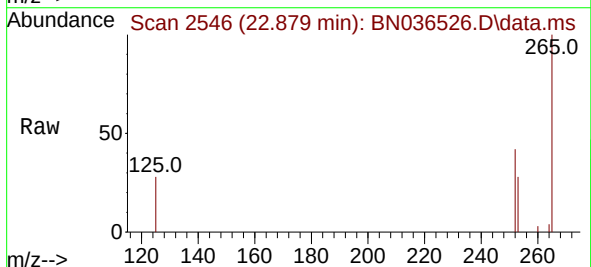
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RW7-SP100-20250228



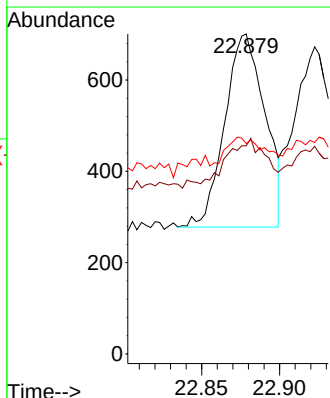
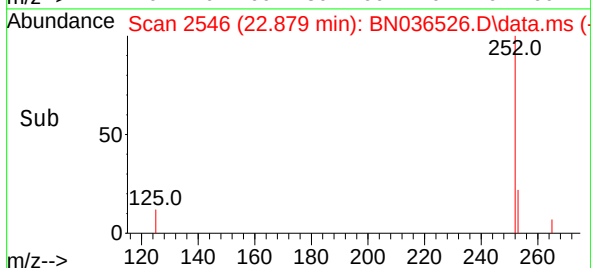
Tgt Ion:276 Resp: 782  
 Ion Ratio Lower Upper  
 276 100  
 138 29.5 22.2 33.2  
 277 9.1 19.8 29.6#

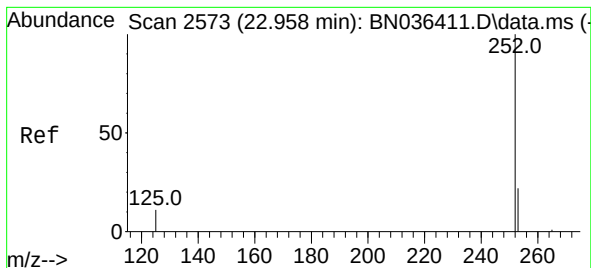


#37  
 Benzo(b)fluoranthene  
 Concen: 0.042 ng  
 RT: 22.879 min Scan# 2546  
 Delta R.T. 0.005 min  
 Lab File: BN036526.D  
 Acq: 05 Mar 2025 16:18



Tgt Ion:252 Resp: 759  
 Ion Ratio Lower Upper  
 252 100  
 253 65.0 21.9 32.9#  
 125 65.8 15.0 22.6#





#38

Benzo(k)fluoranthene

Concen: 0.039 ng

RT: 22.922 min Scan# 2

Delta R.T. 0.005 min

Lab File: BN036526.D

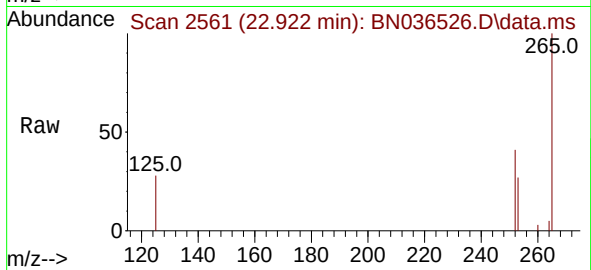
Acq: 05 Mar 2025 16:18

Instrument :

BNA\_N

ClientSampleId :

RW7-SP100-20250228



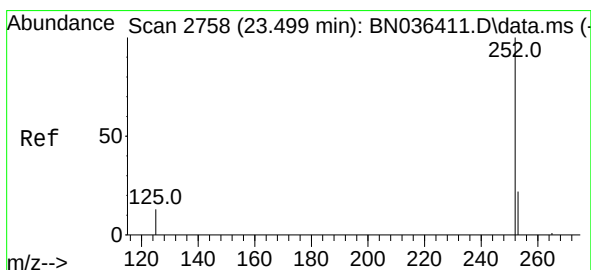
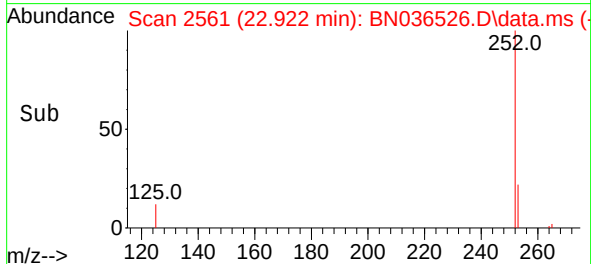
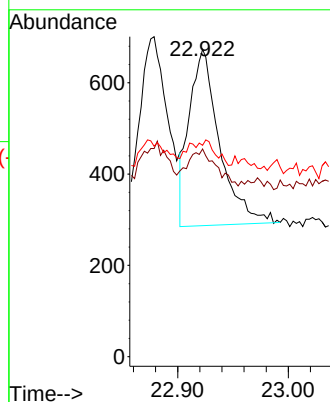
Tgt Ion:252 Resp: 737

Ion Ratio Lower Upper

252 100

253 67.6 22.2 33.4#

125 68.8 15.0 22.4#



#39

Benzo(a)pyrene

Concen: 0.029 ng

RT: 23.455 min Scan# 2743

Delta R.T. -0.000 min

Lab File: BN036526.D

Acq: 05 Mar 2025 16:18

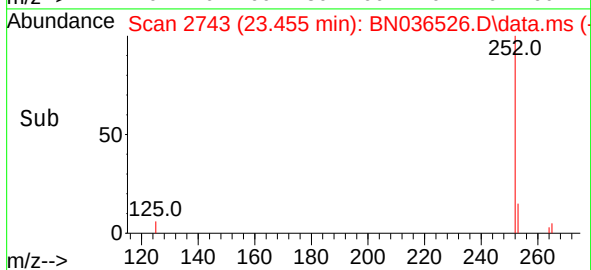
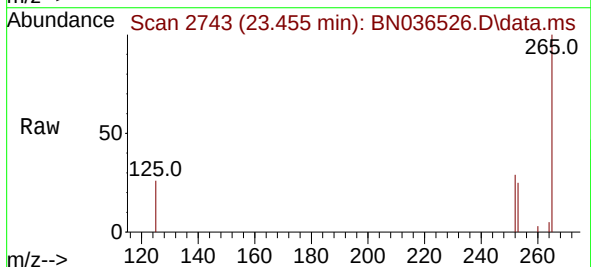
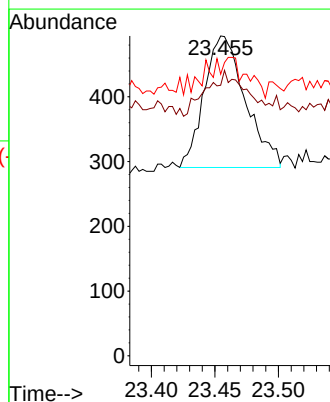
Tgt Ion:252 Resp: 459

Ion Ratio Lower Upper

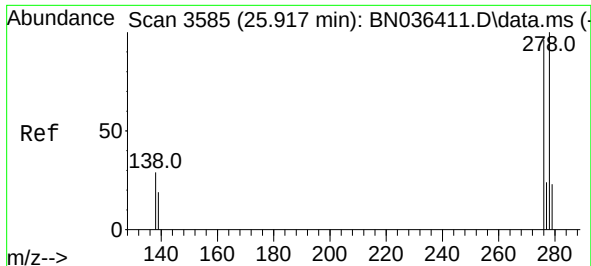
252 100

253 84.6 24.4 36.6#

125 88.1 18.2 27.2#







#40

Dibenzo(a,h)anthracene

Concen: 0.039 ng

RT: 25.864 min Scan# 31

Delta R.T. 0.011 min

Lab File: BN036526.D

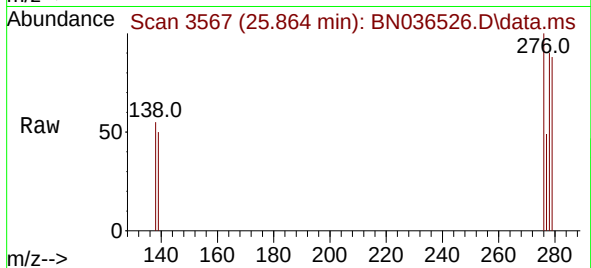
Acq: 05 Mar 2025 16:18

Instrument :

BNA\_N

ClientSampleId :

RW7-SP100-20250228



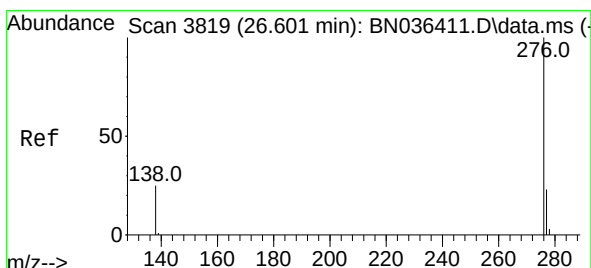
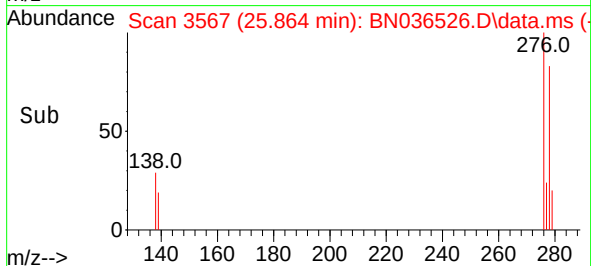
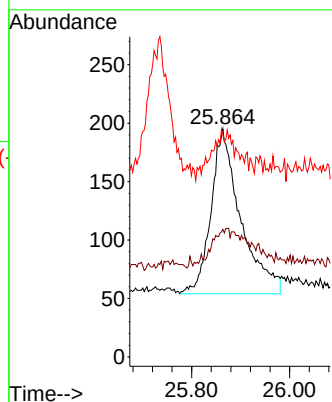
Tgt Ion:278 Resp: 594

Ion Ratio Lower Upper

278 100

139 55.9 18.5 27.7#

279 97.4 24.8 37.2#



#41

Benzo(g,h,i)perylene

Concen: 0.042 ng

RT: 26.536 min Scan# 3797

Delta R.T. 0.008 min

Lab File: BN036526.D

Acq: 05 Mar 2025 16:18

Tgt Ion:276 Resp: 718

Ion Ratio Lower Upper

276 100

277 45.5 20.7 31.1#

138 48.8 21.8 32.6#

