

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081924\  
 Data File : BN033503.D  
 Acq On : 20 Aug 2024 13:23  
 Operator : MA/JU  
 Sample : P3580-01DL 5X  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 926-K1-SD-0-0.5-081224DL

Quant Time: Aug 20 14:10:42 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 19 23:32:18 2024  
 Response via : Initial Calibration

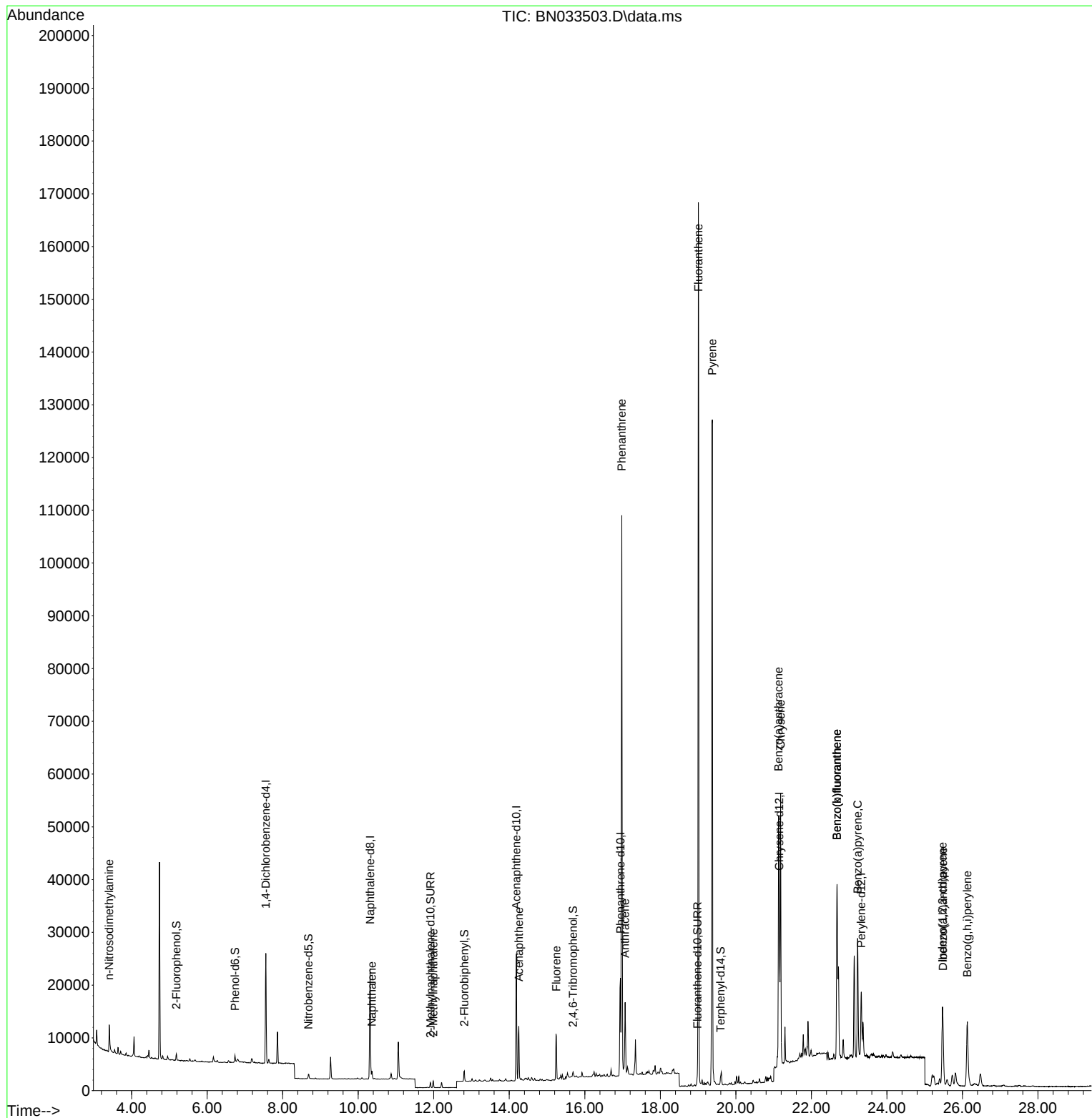
| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.552  | 152  | 9571     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.314 | 136  | 26290    | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10        | 14.189 | 164  | 13221    | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10        | 16.942 | 188  | 27566    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12            | 21.148 | 240  | 16690    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12            | 23.320 | 264  | 15739    | 0.400 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.183  | 112  | 929      | 0.031 | ng    | 0.00     |
| 5) Phenol-d6                | 6.736  | 99   | 1094     | 0.030 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.681  | 82   | 726      | 0.033 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10 | 11.911 | 152  | 1218     | 0.032 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.688 | 330  | 177      | 0.025 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.810 | 172  | 1762     | 0.033 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 18.980 | 212  | 1899     | 0.029 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.593 | 244  | 1245     | 0.033 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 3) n-Nitrosodimethylamine   | 3.407  | 42   | 1036     | 0.081 | ng    | # 1      |
| 9) Naphthalene              | 10.357 | 128  | 1999     | 0.028 | ng    | # 89     |
| 12) 2-Methylnaphthalene     | 11.987 | 142  | 919      | 0.021 | ng    | # 92     |
| 17) Acenaphthene            | 14.253 | 154  | 5143     | 0.126 | ng    | 97       |
| 18) Fluorene                | 15.247 | 166  | 6217     | 0.121 | ng    | 99       |
| 25) Phenanthrene            | 16.979 | 178  | 106097   | 1.383 | ng    | 100      |
| 26) Anthracene              | 17.066 | 178  | 15303    | 0.226 | ng    | 96       |
| 28) Fluoranthene            | 19.008 | 202  | 146296   | 1.726 | ng    | 100      |
| 30) Pyrene                  | 19.375 | 202  | 113436   | 1.523 | ng    | # 95     |
| 32) Benzo(a)anthracene      | 21.130 | 228  | 39592    | 0.656 | ng    | 99       |
| 33) Chrysene                | 21.184 | 228  | 41091    | 0.685 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene  | 25.472 | 276  | 22482    | 0.344 | ng    | 95       |
| 37) Benzo(b)fluoranthene    | 22.677 | 252  | 49617    | 0.844 | ng    | 98       |
| 38) Benzo(k)fluoranthene    | 22.677 | 252  | 49617    | 0.858 | ng    | 96       |
| 39) Benzo(a)pyrene          | 23.224 | 252  | 30409    | 0.625 | ng    | 95       |
| 40) Dibenzo(a,h)anthracene  | 25.481 | 278  | 4888     | 0.094 | ng    | # 81     |
| 41) Benzo(g,h,i)perylene    | 26.127 | 276  | 23354    | 0.418 | ng    | 98       |
| -----                       |        |      |          |       |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081924\  
Data File : BN033503.D  
Acq On : 20 Aug 2024 13:23  
Operator : MA/JU  
Sample : P3580-01DL 5X  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
926-K1-SD-0-0.5-081224DL

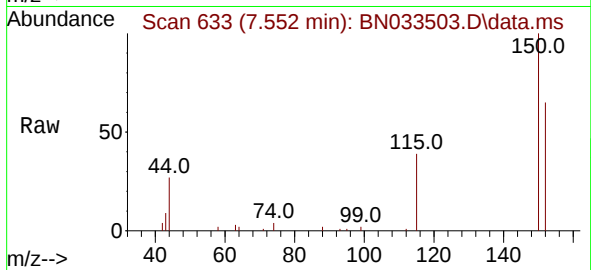
Quant Time: Aug 20 14:10:42 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081924.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 19 23:32:18 2024  
Response via : Initial Calibration



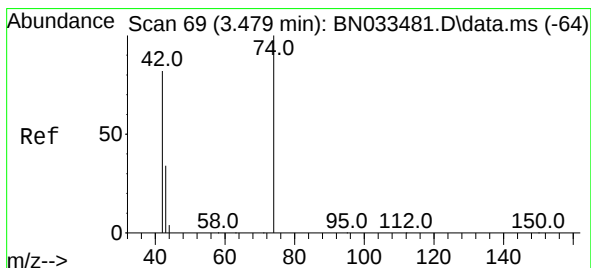
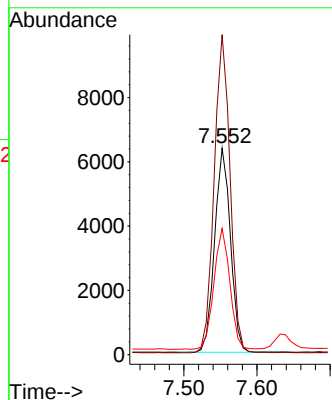
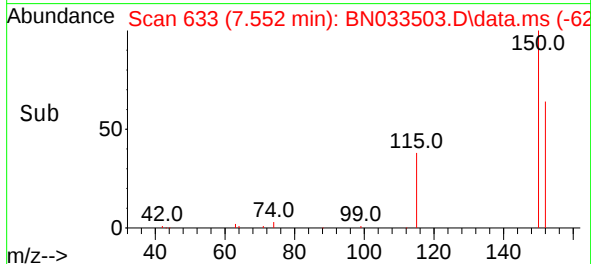


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.552 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

Instrument :  
BNA\_N  
ClientSampleId :  
926-K1-SD-0-0.5-081224DL

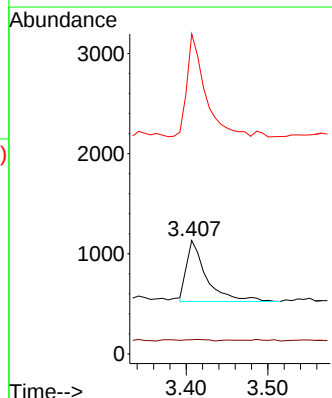
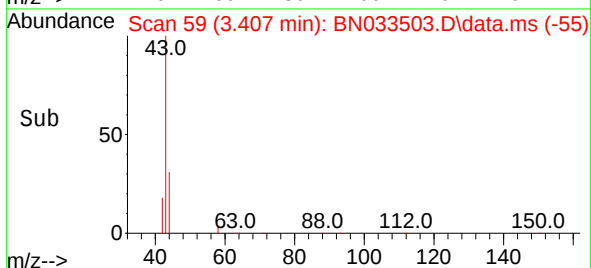
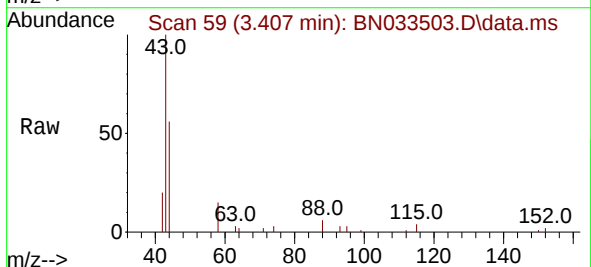


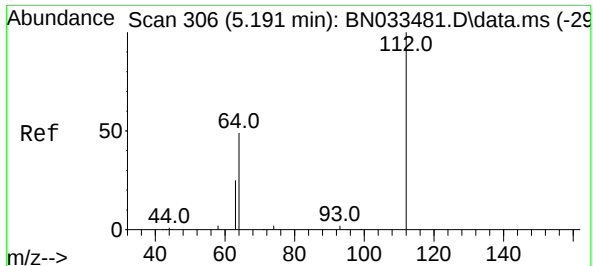
Tgt Ion:152 Resp: 9571  
Ion Ratio Lower Upper  
152 100  
150 154.9 122.2 183.2  
115 61.1 47.2 70.8



#3  
n-Nitrosodimethylamine  
Concen: 0.081 ng  
RT: 3.407 min Scan# 59  
Delta R.T. -0.072 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

Tgt Ion: 42 Resp: 1036  
Ion Ratio Lower Upper  
42 100  
74 2.5 100.2 150.2#  
44 147.8 5.3 7.9#

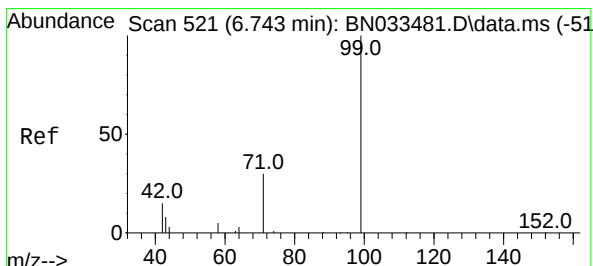
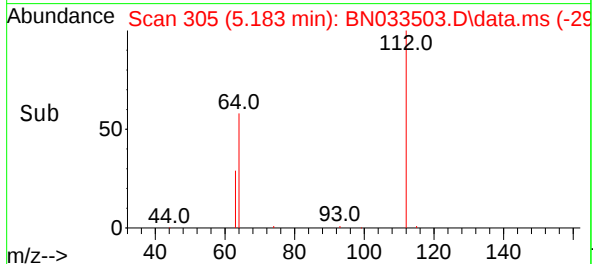
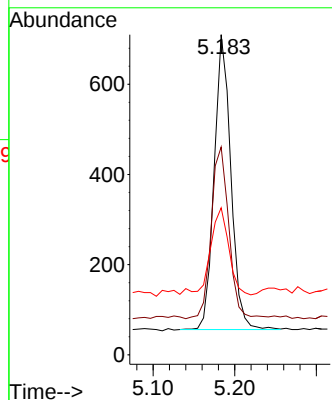
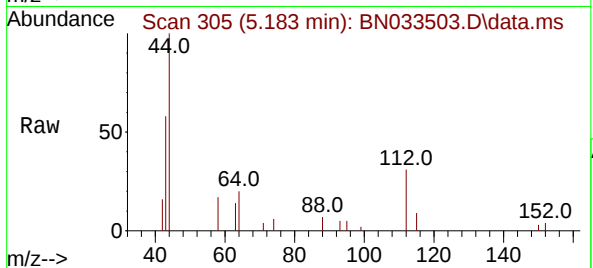




#4  
2-Fluorophenol  
Concen: 0.031 ng  
RT: 5.183 min Scan# 306  
Delta R.T. -0.007 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

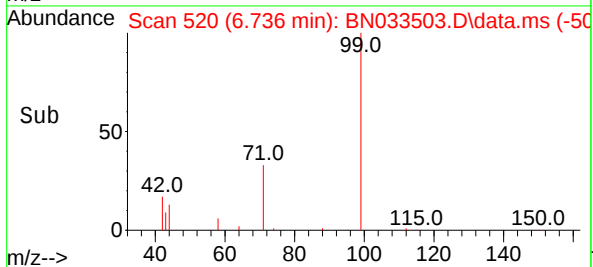
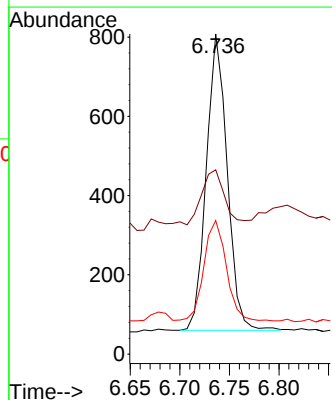
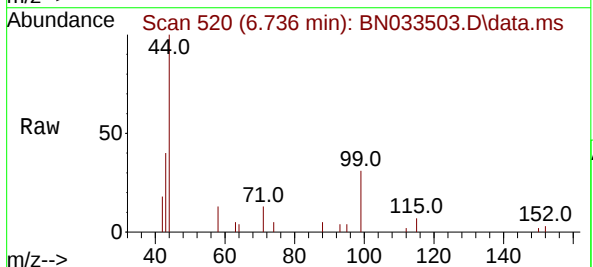
Instrument :  
BNA\_N  
ClientSampleId :  
926-K1-SD-0-0.5-081224DL

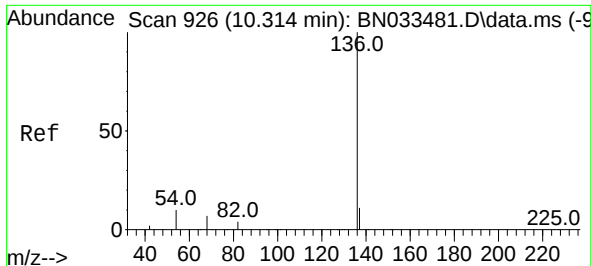
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 929   |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 61.7  | 47.1  | 70.7  |
| 63       | 32.4  | 24.9  | 37.3  |



#5  
Phenol-d6  
Concen: 0.030 ng  
RT: 6.736 min Scan# 520  
Delta R.T. -0.007 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1094  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 20.8  | 16.6  | 24.8  |
| 71       | 36.1  | 26.2  | 39.4  |

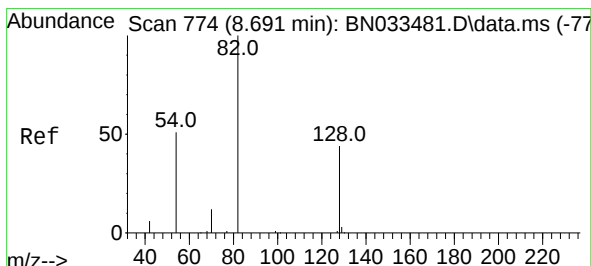
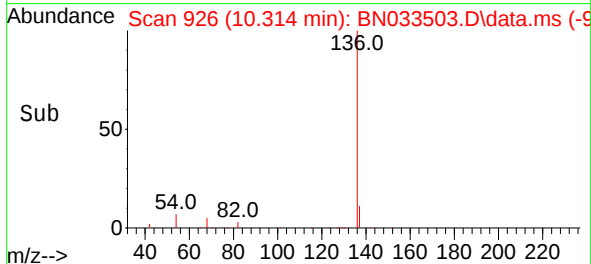
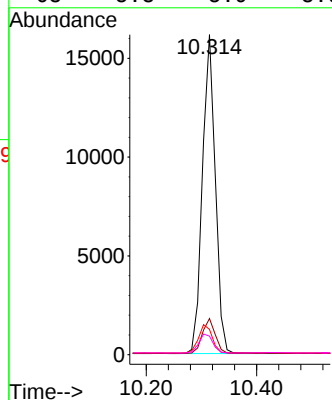
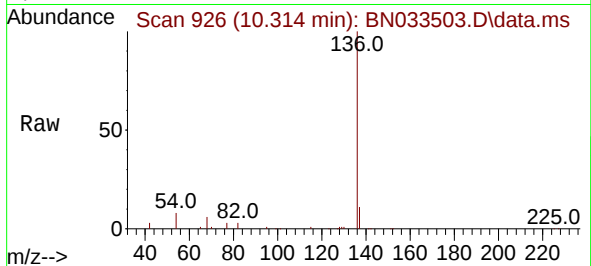




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.314 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

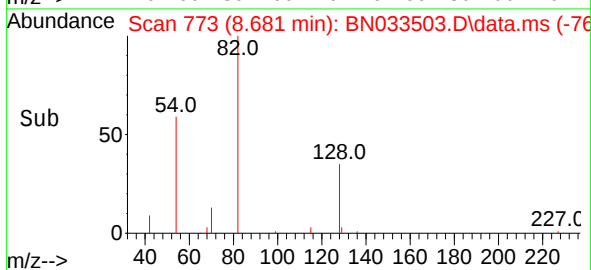
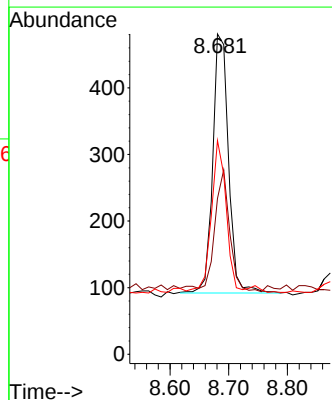
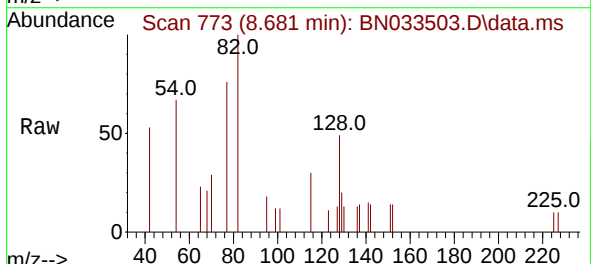
Instrument :  
BNA\_N  
ClientSampleId :  
926-K1-SD-0-0.5-081224DL

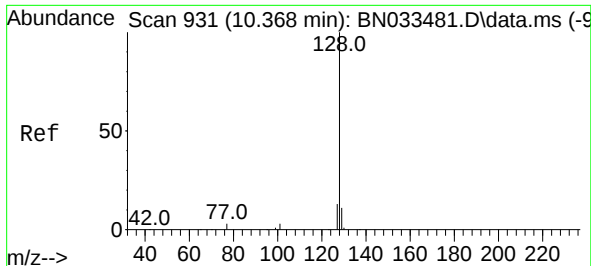
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 26290 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.3  | 9.0   | 13.6  |
| 54        | 7.9   | 8.3   | 12.5# |
| 68        | 5.8   | 5.9   | 8.9#  |



#8  
Nitrobenzene-d5  
Concen: 0.033 ng  
RT: 8.681 min Scan# 773  
Delta R.T. -0.011 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 726   |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 48.6  | 36.0  | 54.0  |
| 54        | 66.7  | 42.0  | 63.0# |

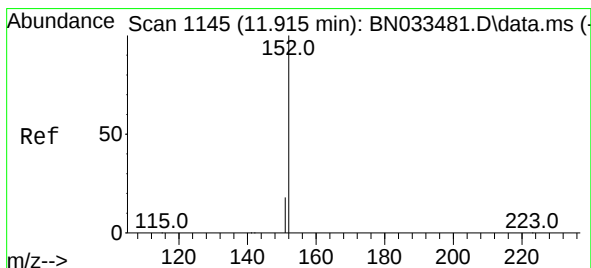
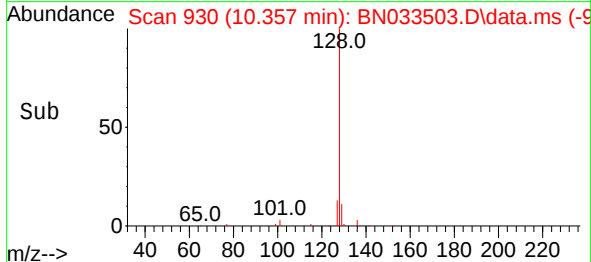
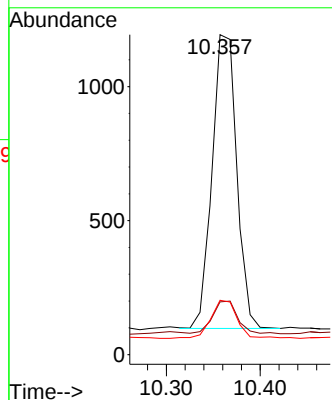
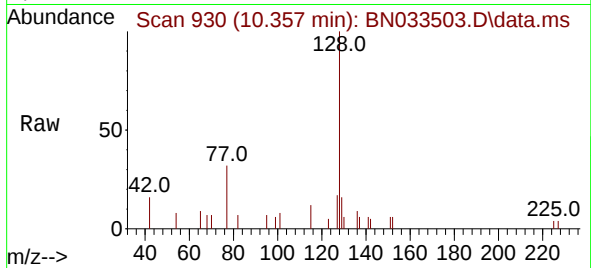




#9  
Naphthalene  
Concen: 0.028 ng  
RT: 10.357 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

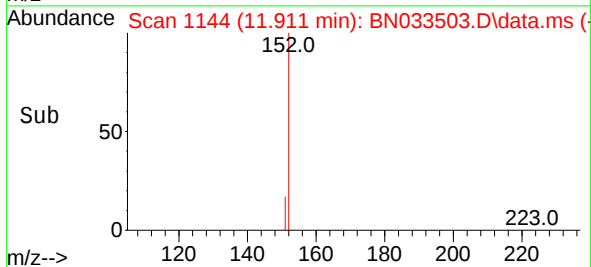
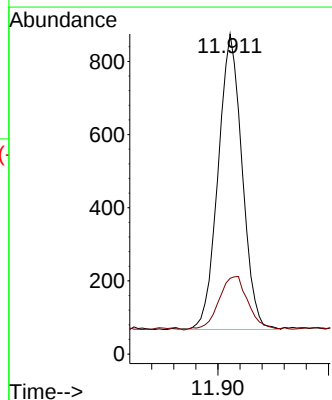
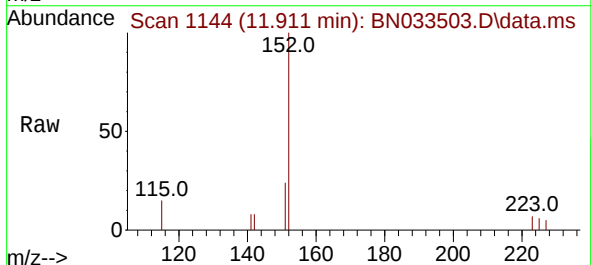
Instrument :  
BNA\_N  
ClientSampleId :  
926-K1-SD-0-0.5-081224DL

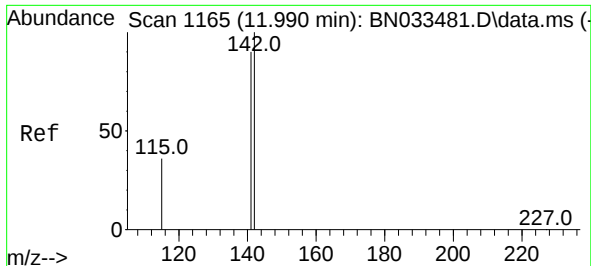
Tgt Ion:128 Resp: 1999  
Ion Ratio Lower Upper  
128 100  
129 16.5 9.1 13.7#  
127 17.0 10.7 16.1#



#11  
2-Methylnaphthalene-d10  
Concen: 0.032 ng  
RT: 11.911 min Scan# 1144  
Delta R.T. -0.004 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

Tgt Ion:152 Resp: 1218  
Ion Ratio Lower Upper  
152 100  
151 22.3 16.6 25.0





#12

2-Methylnaphthalene

Concen: 0.021 ng

RT: 11.987 min Scan# 1164

Delta R.T. -0.004 min

Lab File: BN033503.D

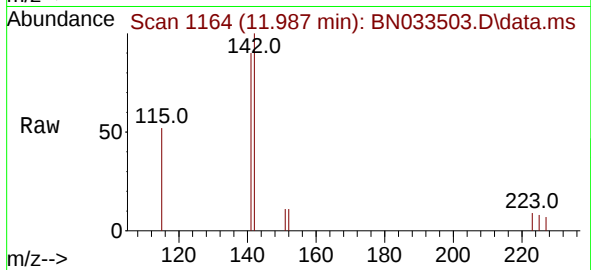
Acq: 20 Aug 2024 13:23

Instrument :

BNA\_N

ClientSampleId :

926-K1-SD-0-0.5-081224DL



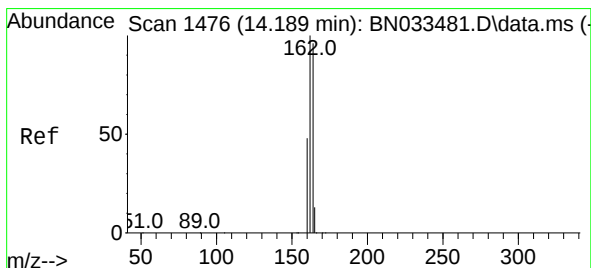
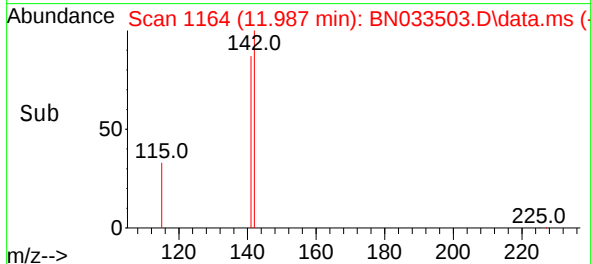
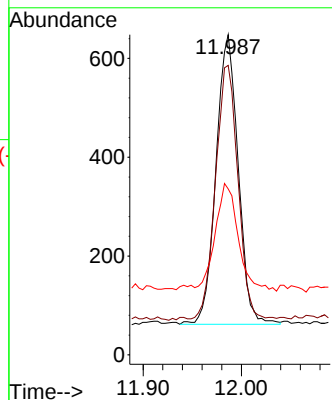
Tgt Ion:142 Resp: 919

Ion Ratio Lower Upper

142 100

141 90.4 71.7 107.5

115 51.9 29.4 44.2#



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.189 min Scan# 1476

Delta R.T. 0.000 min

Lab File: BN033503.D

Acq: 20 Aug 2024 13:23

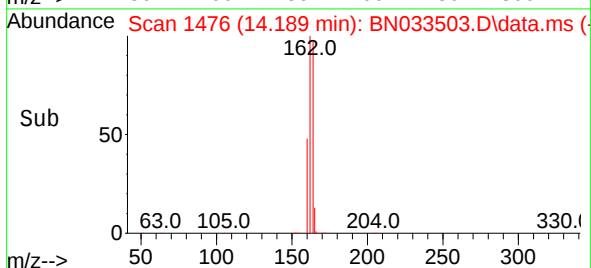
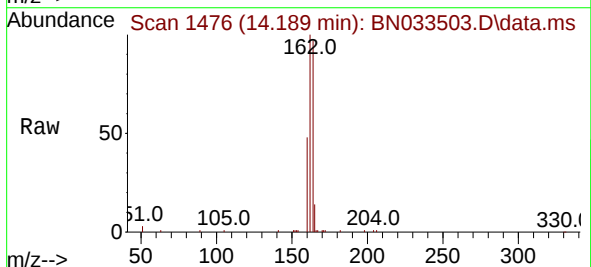
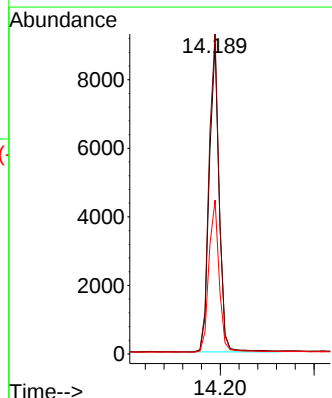
Tgt Ion:164 Resp: 13221

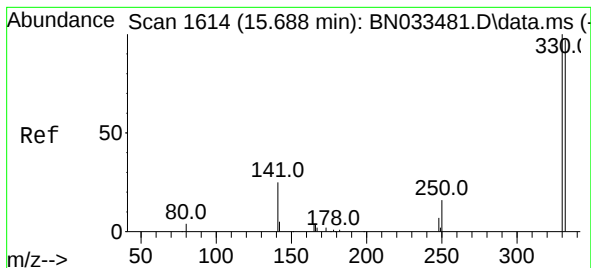
Ion Ratio Lower Upper

164 100

162 103.3 83.5 125.3

160 49.7 40.2 60.4

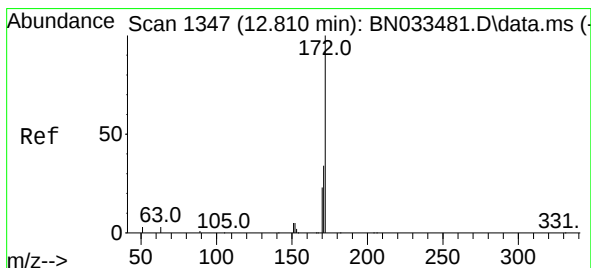
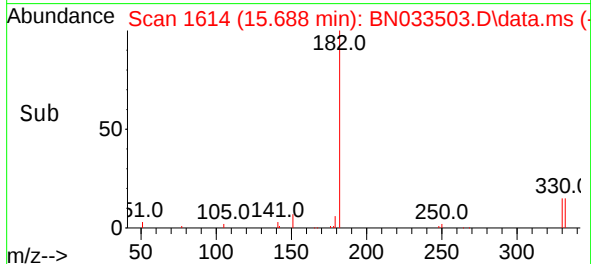
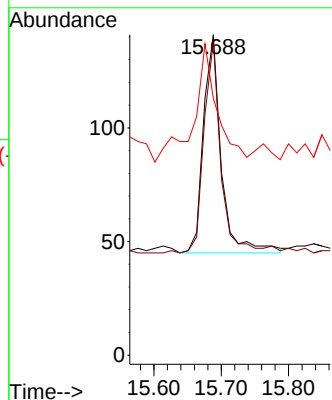
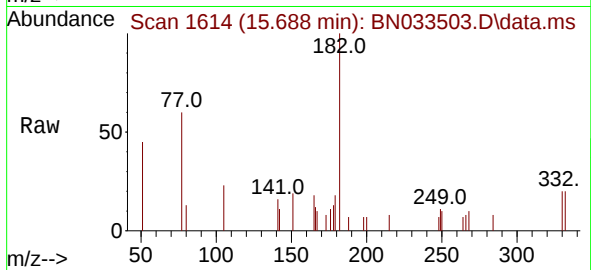




#14  
2,4,6-Tribromophenol  
Concen: 0.025 ng  
RT: 15.688 min Scan# 1614  
Delta R.T. 0.000 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

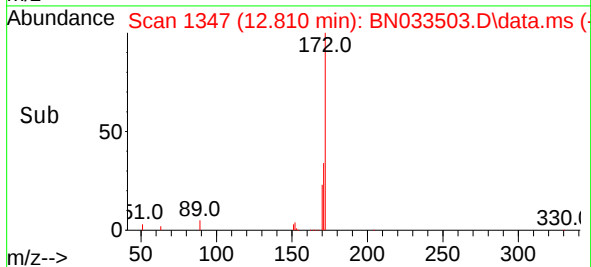
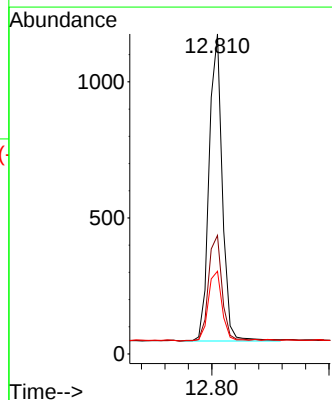
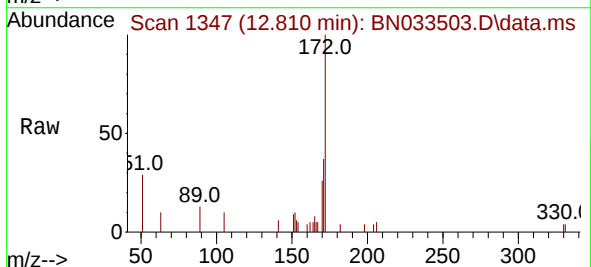
Instrument :  
BNA\_N  
ClientSampleId :  
926-K1-SD-0-0.5-081224DL

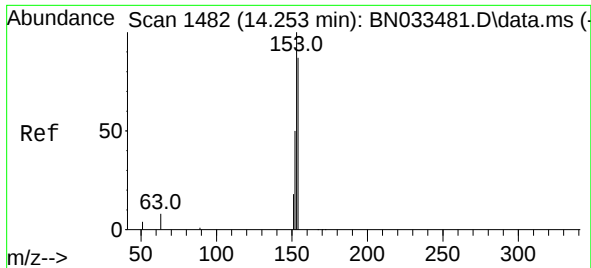
Tgt Ion:330 Resp: 177  
Ion Ratio Lower Upper  
330 100  
332 90.4 77.5 116.3  
141 59.9 33.9 50.9#



#15  
2-Fluorobiphenyl  
Concen: 0.033 ng  
RT: 12.810 min Scan# 1347  
Delta R.T. 0.000 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

Tgt Ion:172 Resp: 1762  
Ion Ratio Lower Upper  
172 100  
171 37.1 27.7 41.5  
170 25.9 18.3 27.5

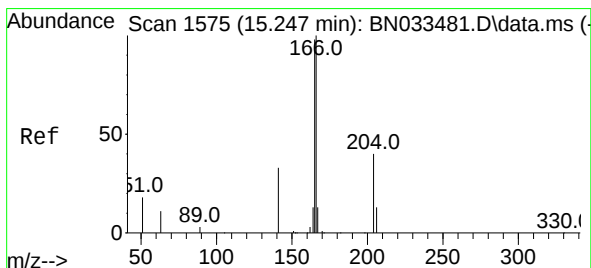
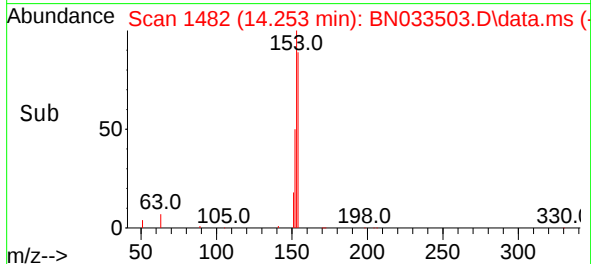
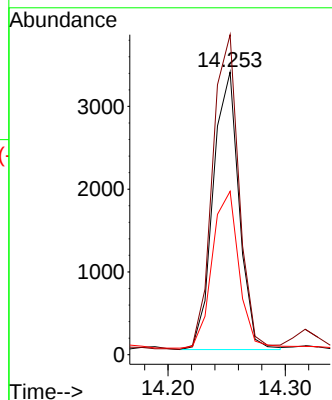
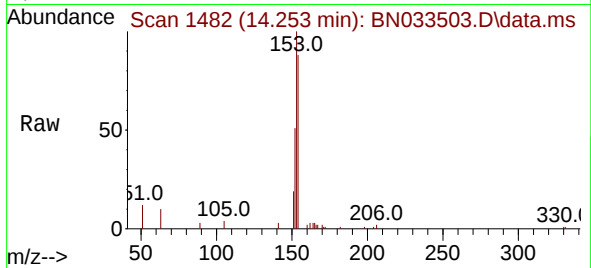




#17  
Acenaphthene  
Concen: 0.126 ng  
RT: 14.253 min Scan# 1482  
Delta R.T. 0.000 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

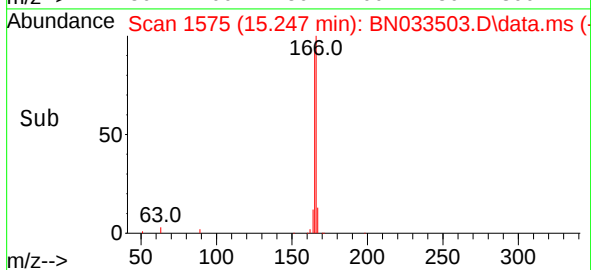
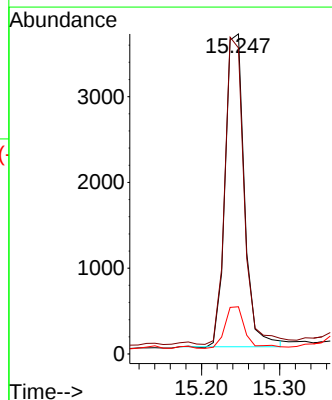
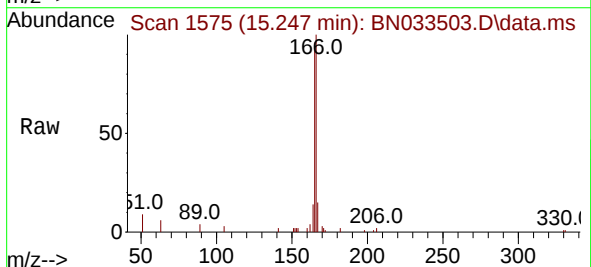
Instrument :  
BNA\_N  
ClientSampleId :  
926-K1-SD-0-0.5-081224DL

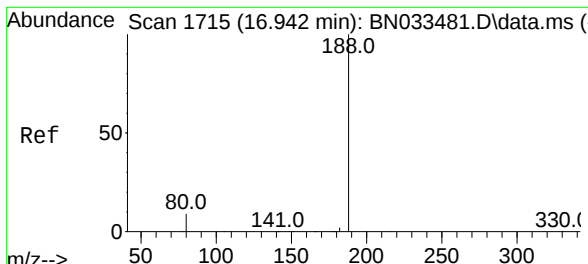
Tgt Ion:154 Resp: 5143  
Ion Ratio Lower Upper  
154 100  
153 115.2 89.0 133.6  
152 58.4 45.2 67.8



#18  
Fluorene  
Concen: 0.121 ng  
RT: 15.247 min Scan# 1575  
Delta R.T. 0.000 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

Tgt Ion:166 Resp: 6217  
Ion Ratio Lower Upper  
166 100  
165 97.3 78.2 117.4  
167 14.1 10.6 16.0

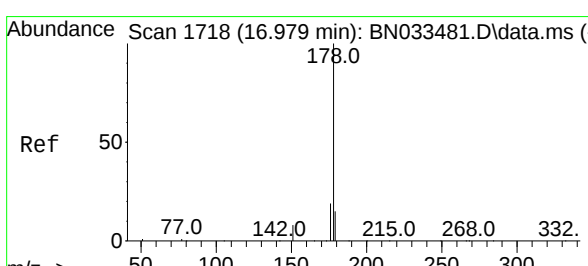
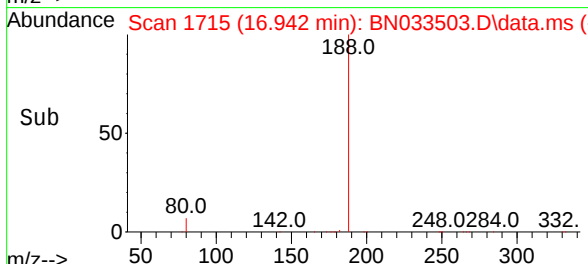
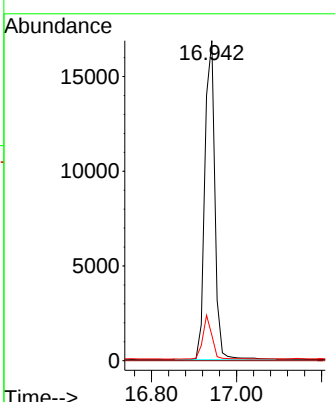
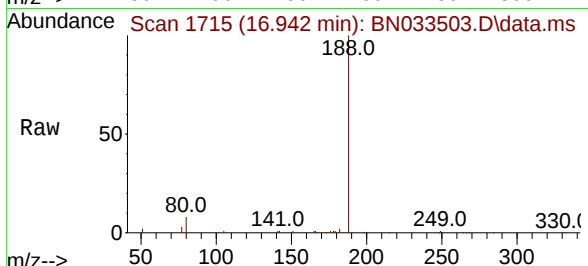




#19  
 Phenanthrene-d10  
 Concen: 0.400 ng  
 RT: 16.942 min Scan# 1715  
 Delta R.T. 0.000 min  
 Lab File: BN033503.D  
 Acq: 20 Aug 2024 13:23

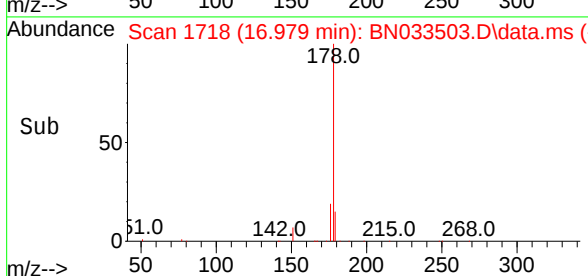
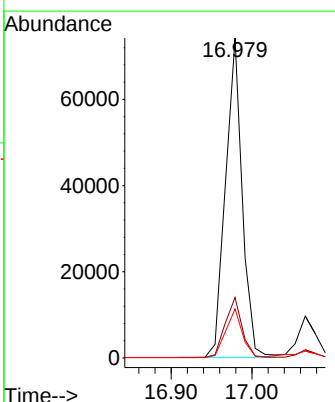
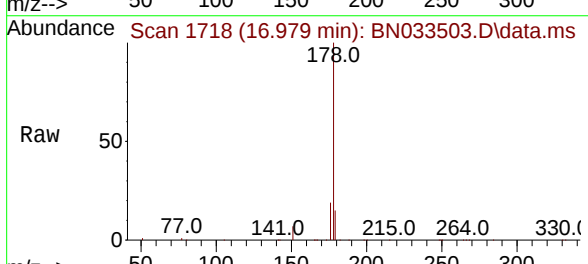
**Instrument :**  
 BNA\_N  
**ClientSampleId :**  
 926-K1-SD-0-0.5-081224DL

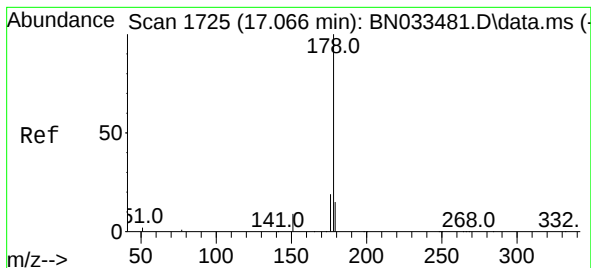
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 188   | Resp: | 27566 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 8.0   | 7.8   | 11.8  |



#25  
 Phenanthrene  
 Concen: 1.383 ng  
 RT: 16.979 min Scan# 1718  
 Delta R.T. 0.000 min  
 Lab File: BN033503.D  
 Acq: 20 Aug 2024 13:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 106097 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.1  | 15.3  | 22.9   |
| 179       | 15.1  | 12.3  | 18.5   |





#26

Anthracene

Concen: 0.226 ng

RT: 17.066 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN033503.D

Acq: 20 Aug 2024 13:23

Instrument :

BNA\_N

ClientSampleId :

926-K1-SD-0-0.5-081224DL

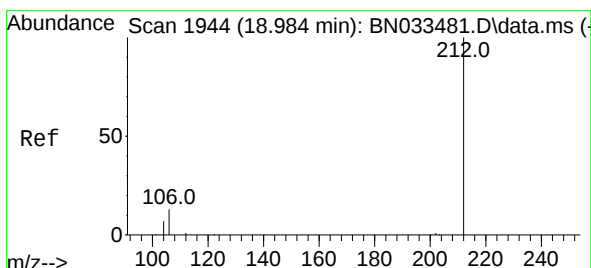
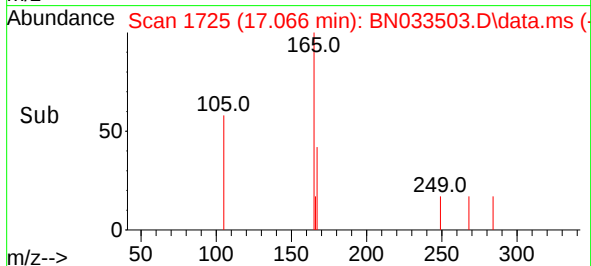
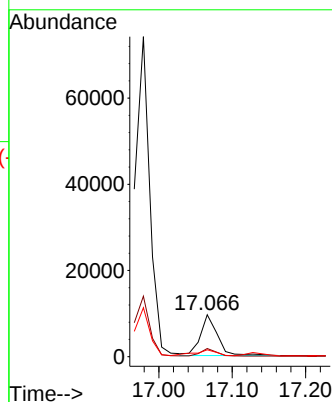
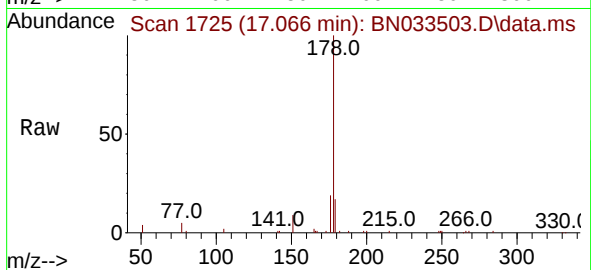
Tgt Ion:178 Resp: 15303

Ion Ratio Lower Upper

178 100

176 18.0 15.0 22.6

179 18.0 12.4 18.6



#27

Fluoranthene-d10

Concen: 0.029 ng

RT: 18.980 min Scan# 1943

Delta R.T. -0.005 min

Lab File: BN033503.D

Acq: 20 Aug 2024 13:23

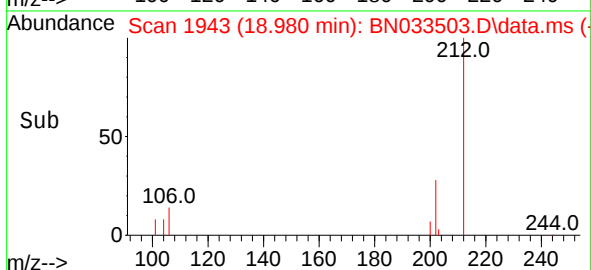
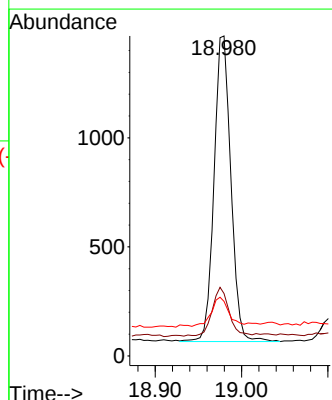
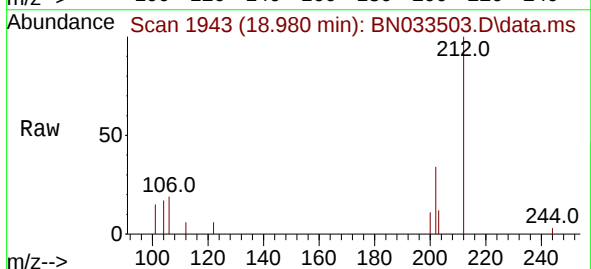
Tgt Ion:212 Resp: 1899

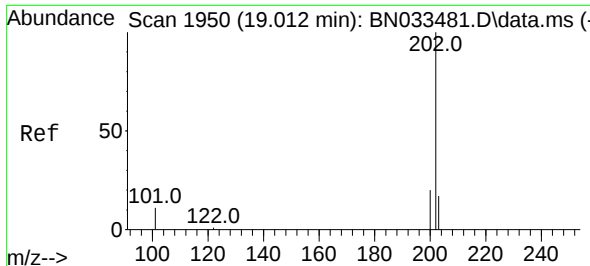
Ion Ratio Lower Upper

212 100

106 16.0 12.3 18.5

104 9.7 7.0 10.4

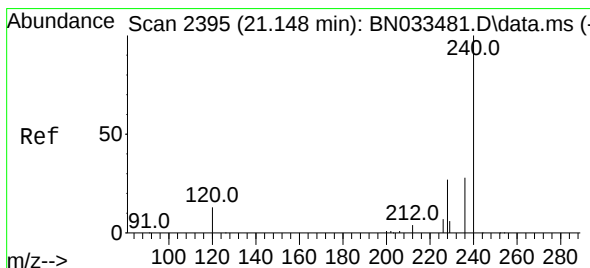
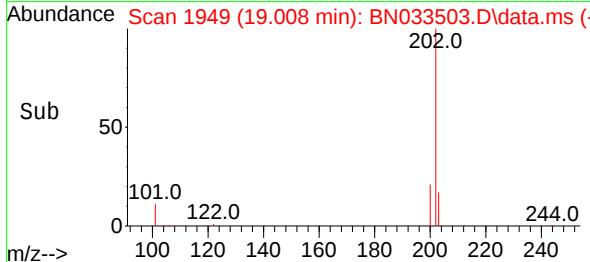
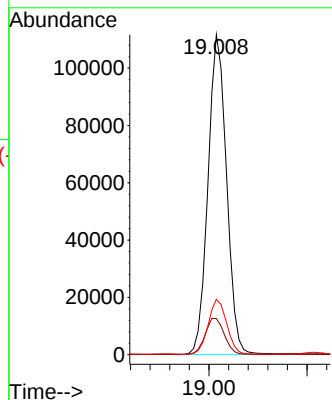
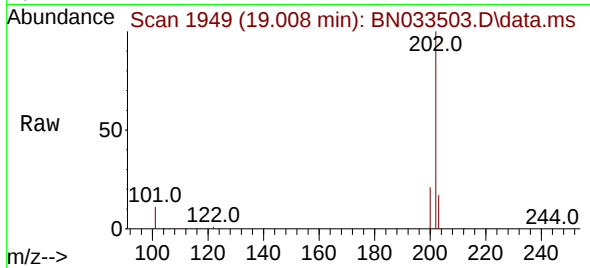




#28  
Fluoranthene  
Concen: 1.726 ng  
RT: 19.008 min Scan# 1949  
Delta R.T. -0.005 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

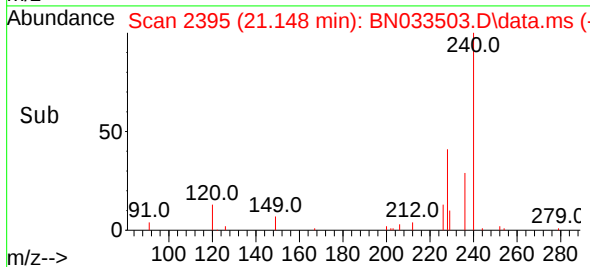
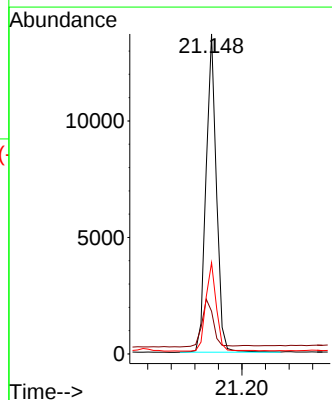
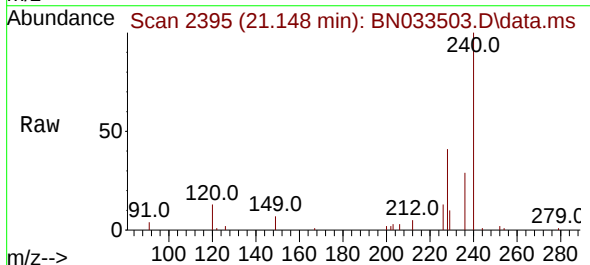
Instrument :  
BNA\_N  
ClientSampleId :  
926-K1-SD-0-0.5-081224DL

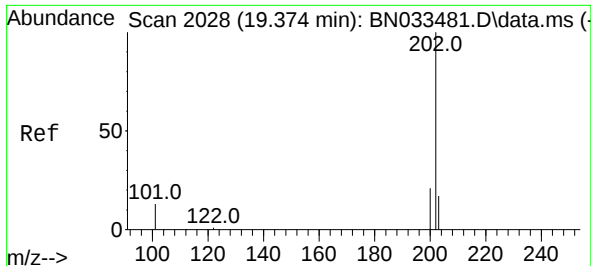
Tgt Ion:202 Resp: 146296  
Ion Ratio Lower Upper  
202 100  
101 11.7 9.5 14.3  
203 17.2 13.8 20.6



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.148 min Scan# 2395  
Delta R.T. 0.000 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

Tgt Ion:240 Resp: 16690  
Ion Ratio Lower Upper  
240 100  
120 13.4 12.4 18.6  
236 28.5 23.0 34.6

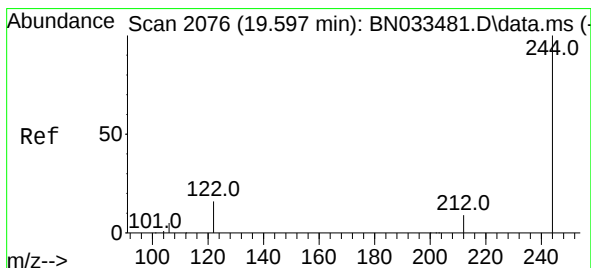
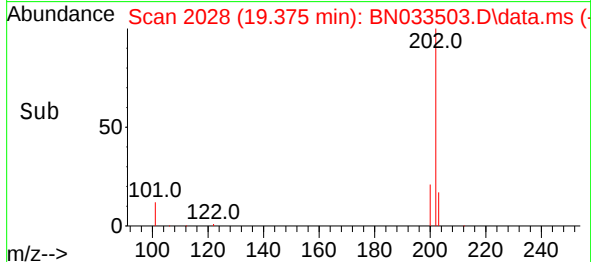
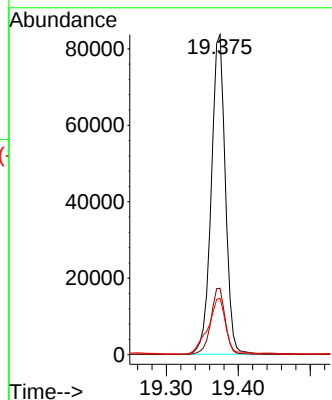
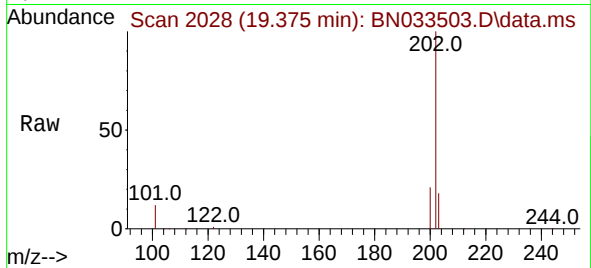




#30  
Pyrene  
Concen: 1.523 ng  
RT: 19.375 min Scan# 2028  
Delta R.T. 0.000 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

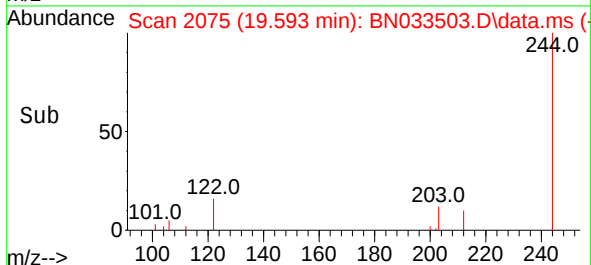
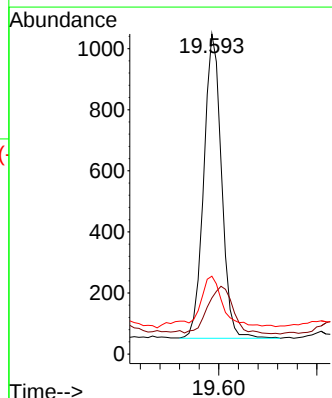
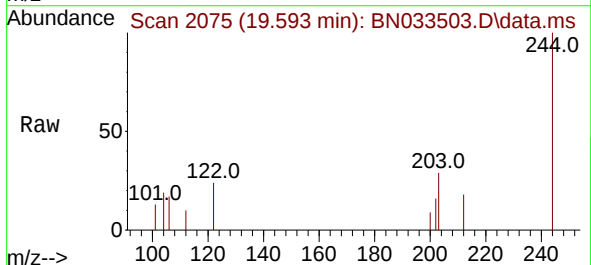
Instrument :  
BNA\_N  
ClientSampleId :  
926-K1-SD-0-0.5-081224DL

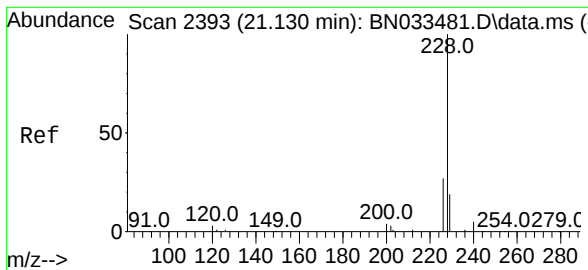
Tgt Ion:202 Resp: 113436  
Ion Ratio Lower Upper  
202 100  
200 21.0 16.6 24.8  
203 21.9 14.2 21.4#



#31  
Terphenyl-d14  
Concen: 0.033 ng  
RT: 19.593 min Scan# 2075  
Delta R.T. -0.005 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

Tgt Ion:244 Resp: 1245  
Ion Ratio Lower Upper  
244 100  
212 17.6 7.8 11.6#  
122 24.3 13.3 19.9#





#32

Benzo(a)anthracene

Concen: 0.656 ng

RT: 21.130 min Scan# 2393

Delta R.T. 0.000 min

Lab File: BN033503.D

Acq: 20 Aug 2024 13:23

Instrument :

BNA\_N

ClientSampleId :

926-K1-SD-0-0.5-081224DL

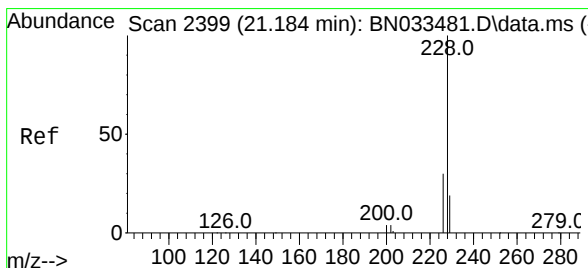
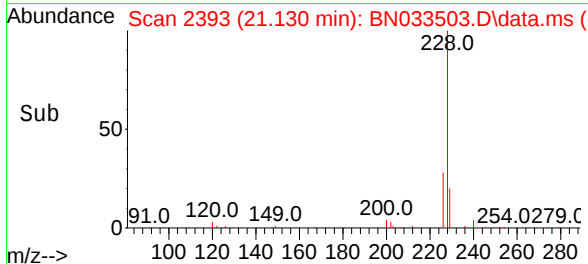
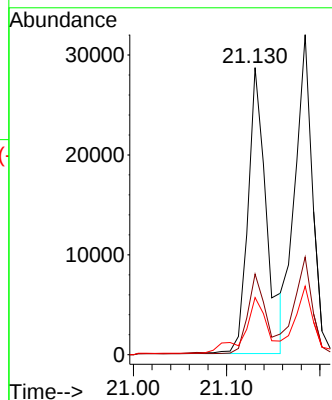
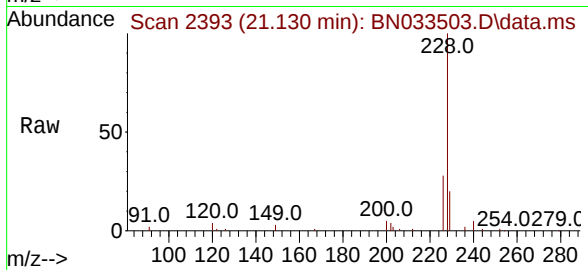
Tgt Ion:228 Resp: 39592

Ion Ratio Lower Upper

228 100

226 28.1 21.8 32.6

229 19.9 15.8 23.6



#33

Chrysene

Concen: 0.685 ng

RT: 21.184 min Scan# 2399

Delta R.T. 0.000 min

Lab File: BN033503.D

Acq: 20 Aug 2024 13:23

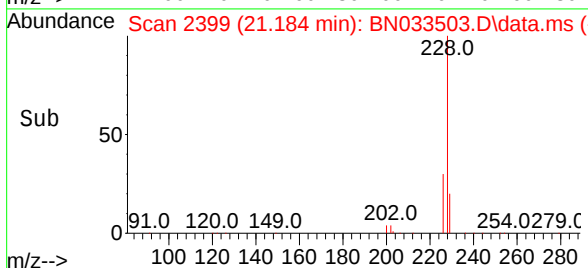
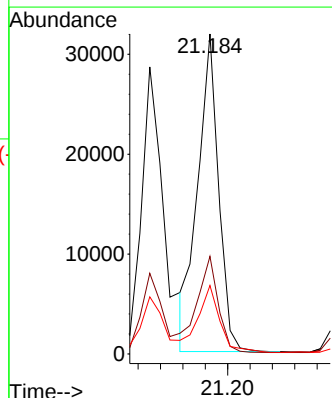
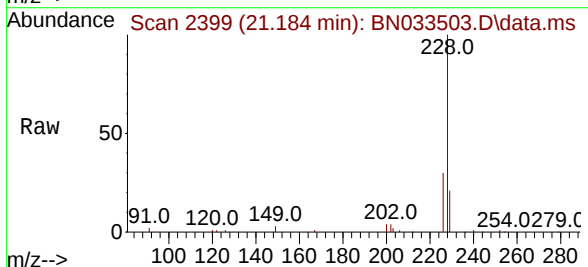
Tgt Ion:228 Resp: 41091

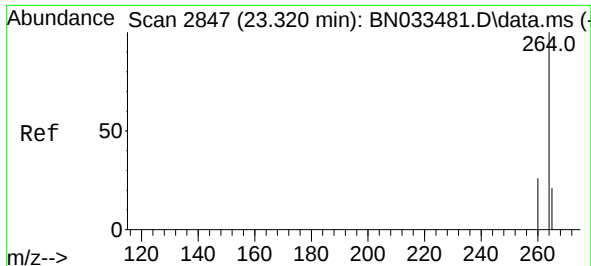
Ion Ratio Lower Upper

228 100

226 30.5 23.8 35.8

229 21.4 15.6 23.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.320 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033503.D

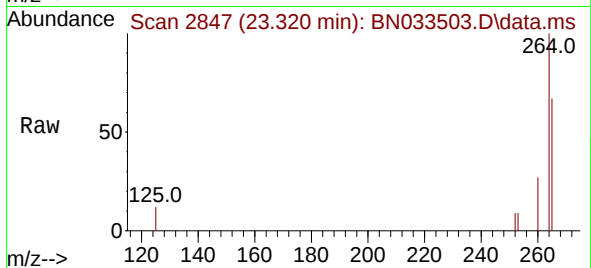
Acq: 20 Aug 2024 13:23

Instrument :

BNA\_N

ClientSampleId :

926-K1-SD-0-0.5-081224DL



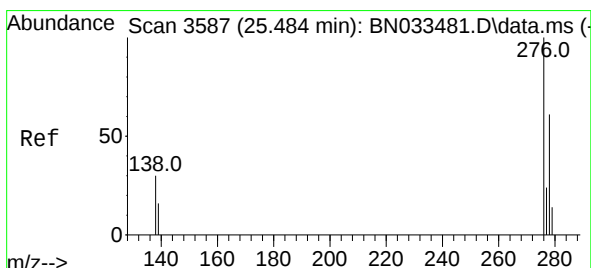
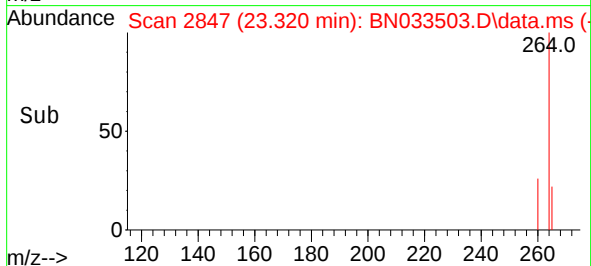
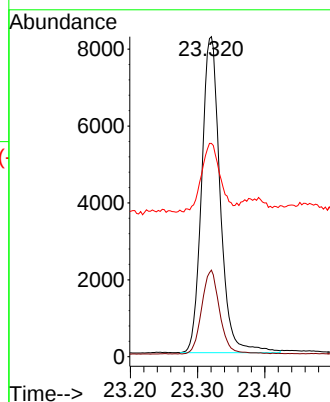
Tgt Ion:264 Resp: 15739

Ion Ratio Lower Upper

264 100

260 27.1 20.8 31.2

265 66.6 52.2 78.2



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.344 ng

RT: 25.472 min Scan# 3583

Delta R.T. -0.012 min

Lab File: BN033503.D

Acq: 20 Aug 2024 13:23

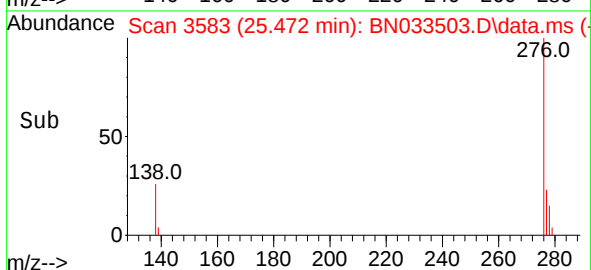
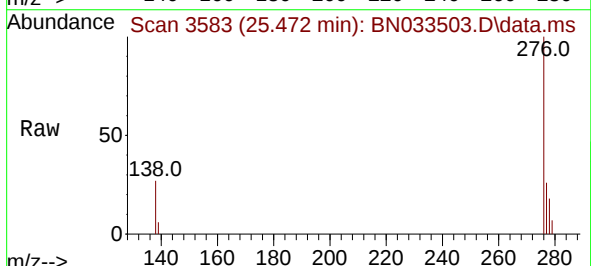
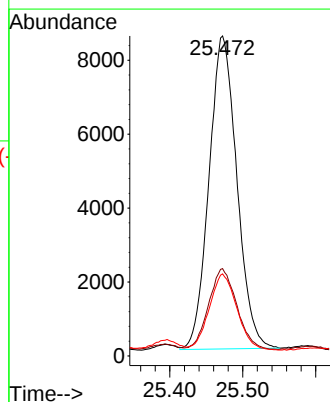
Tgt Ion:276 Resp: 22482

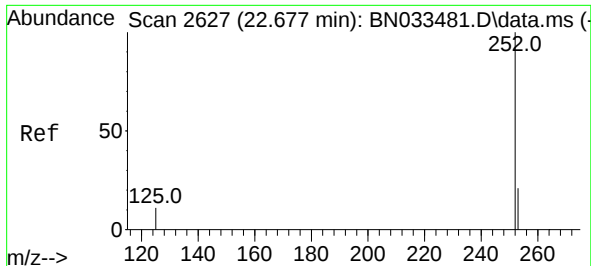
Ion Ratio Lower Upper

276 100

138 25.9 24.4 36.6

277 24.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.844 ng

RT: 22.677 min Scan# 2627

Delta R.T. 0.000 min

Lab File: BN033503.D

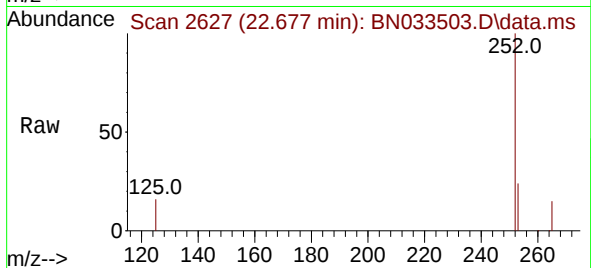
Acq: 20 Aug 2024 13:23

Instrument :

BNA\_N

ClientSampleId :

926-K1-SD-0-0.5-081224DL



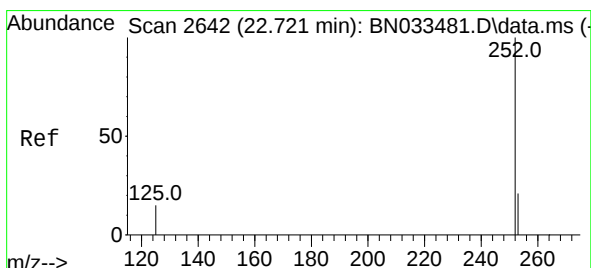
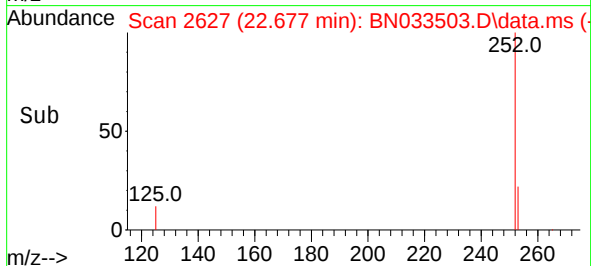
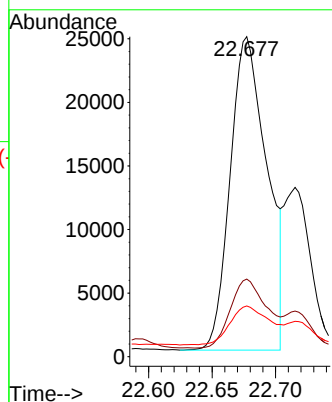
Tgt Ion:252 Resp: 49617

Ion Ratio Lower Upper

252 100

253 24.2 19.8 29.8

125 15.9 13.9 20.9



#38

Benzo(k)fluoranthene

Concen: 0.858 ng

RT: 22.677 min Scan# 2627

Delta R.T. -0.044 min

Lab File: BN033503.D

Acq: 20 Aug 2024 13:23

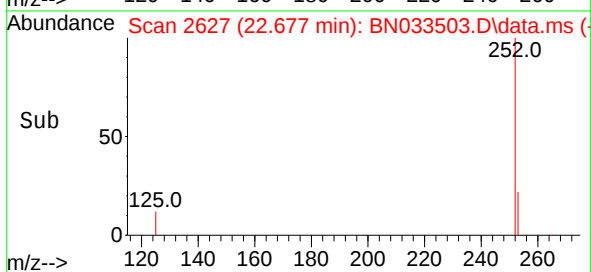
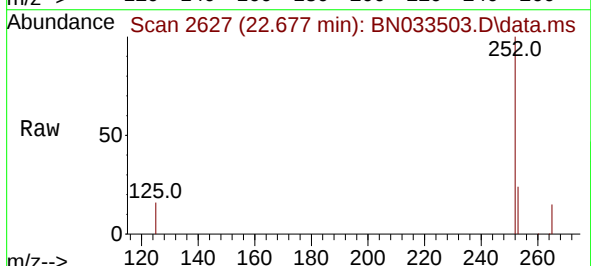
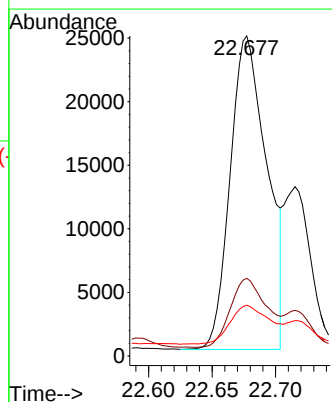
Tgt Ion:252 Resp: 49617

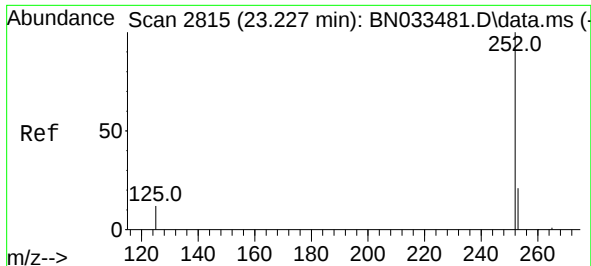
Ion Ratio Lower Upper

252 100

253 24.2 19.8 29.8

125 15.9 15.8 23.8





#39

Benzo(a)pyrene

Concen: 0.625 ng

RT: 23.224 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN033503.D

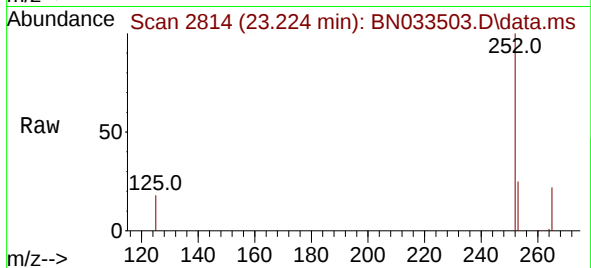
Acq: 20 Aug 2024 13:23

Instrument :

BNA\_N

ClientSampleId :

926-K1-SD-0-0.5-081224DL



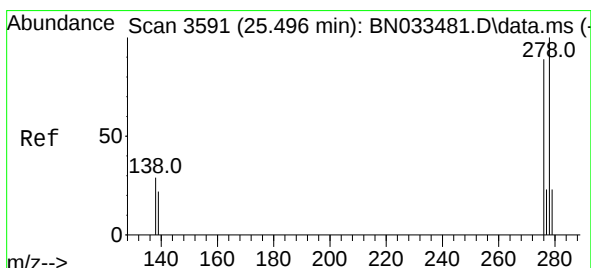
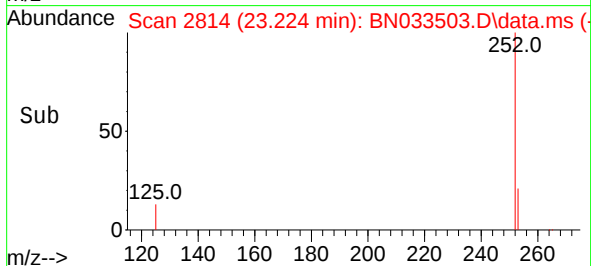
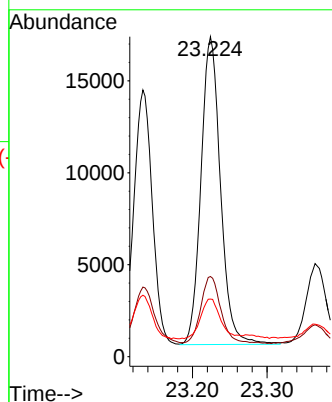
Tgt Ion:252 Resp: 30409

Ion Ratio Lower Upper

252 100

253 25.1 21.5 32.3

125 18.0 17.0 25.4



#40

Dibenzo(a,h)anthracene

Concen: 0.094 ng

RT: 25.481 min Scan# 3586

Delta R.T. -0.015 min

Lab File: BN033503.D

Acq: 20 Aug 2024 13:23

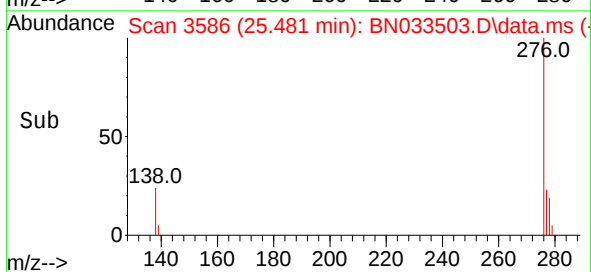
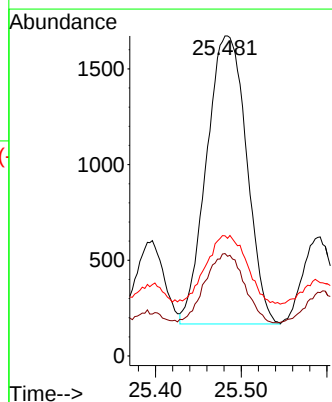
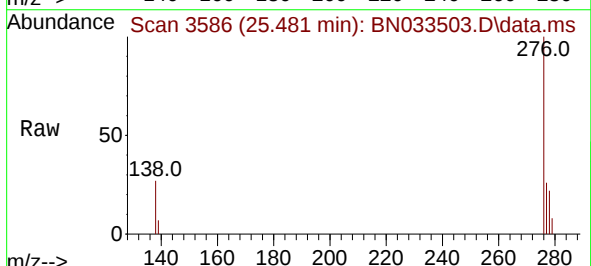
Tgt Ion:278 Resp: 4888

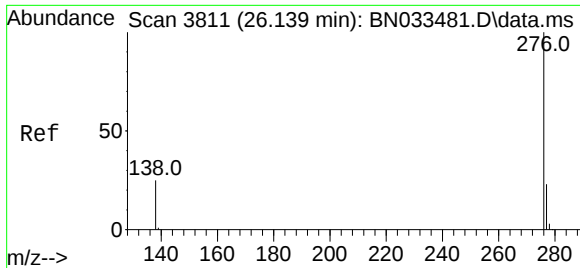
Ion Ratio Lower Upper

278 100

139 32.0 19.1 28.7#

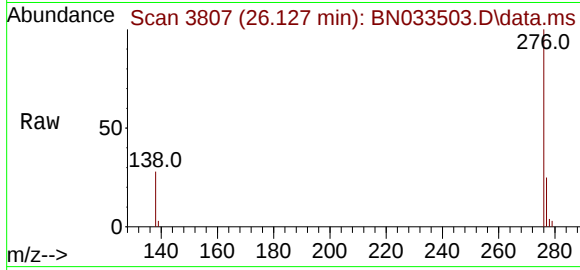
279 37.6 21.0 31.4#





#41  
Benzo(g,h,i)perylene  
Concen: 0.418 ng  
RT: 26.127 min Scan# 3811  
Delta R.T. -0.012 min  
Lab File: BN033503.D  
Acq: 20 Aug 2024 13:23

Instrument :  
BNA\_N  
ClientSampleId :  
926-K1-SD-0-0.5-081224DL



Tgt Ion:276 Resp: 23354  
Ion Ratio Lower Upper  
276 100  
277 25.3 19.7 29.5  
138 28.2 21.8 32.6

