

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN080723\  
 Data File : BN026835.D  
 Acq On : 07 Aug 2023 17:44  
 Operator : MA/JU  
 Sample : 03909-02  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SP-201-20230803

Quant Time: Aug 08 00:51:13 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN080123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 02 00:35:47 2023  
 Response via : Initial Calibration

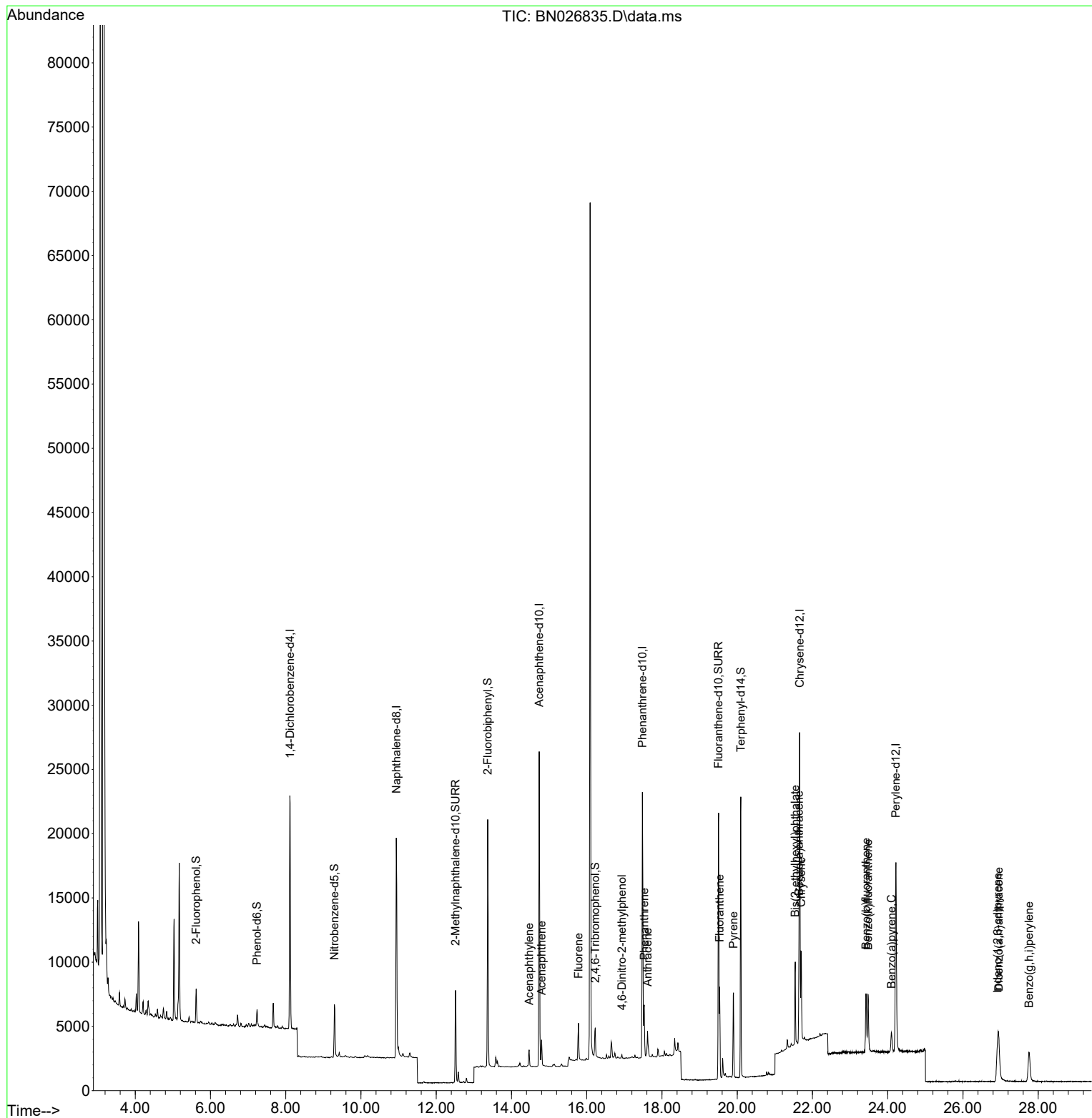
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.117  | 152  | 9222     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.938 | 136  | 24904    | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 14.737 | 164  | 13755    | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.480 | 188  | 28586    | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.659 | 240  | 22079    | 0.400 | ng    | -0.02    |
| 35) Perylene-d12              | 24.218 | 264  | 22995    | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.618  | 112  | 2120     | 0.091 | ng    | 0.00     |
| 5) Phenol-d6                  | 7.236  | 99   | 1298     | 0.043 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 9.294  | 82   | 3624     | 0.246 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 12.513 | 152  | 9478     | 0.265 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol      | 16.226 | 330  | 1481     | 0.316 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.368 | 172  | 16306    | 0.290 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.504 | 212  | 22744    | 0.331 | ng    | 0.00     |
| 31) Terphenyl-d14             | 20.094 | 244  | 21467    | 0.466 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 16) Acenaphthylene            | 14.469 | 152  | 1870     | 0.028 | ng    | 98       |
| 17) Acenaphthene              | 14.801 | 154  | 945      | 0.022 | ng    | 99       |
| 18) Fluorene                  | 15.780 | 166  | 2070     | 0.037 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 16.934 | 198  | 16       | 0.035 | ng    | # 1      |
| 25) Phenanthrene              | 17.530 | 178  | 4669     | 0.054 | ng    | 98       |
| 26) Anthracene                | 17.617 | 178  | 2308     | 0.030 | ng    | # 90     |
| 28) Fluoranthene              | 19.532 | 202  | 6168     | 0.064 | ng    | 99       |
| 30) Pyrene                    | 19.899 | 202  | 6046     | 0.063 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.641 | 228  | 5010     | 0.066 | ng    | 96       |
| 33) Chrysene                  | 21.704 | 228  | 6620     | 0.079 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.542 | 149  | 6772     | 0.270 | ng    | # 99     |
| 36) Indeno(1,2,3-cd)pyrene    | 26.922 | 276  | 7269     | 0.077 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 23.423 | 252  | 6729     | 0.074 | ng    | # 83     |
| 38) Benzo(k)fluoranthene      | 23.478 | 252  | 6639     | 0.071 | ng    | # 81     |
| 39) Benzo(a)pyrene            | 24.101 | 252  | 2614     | 0.032 | ng    | # 43     |
| 40) Dibenzo(a,h)anthracene    | 26.952 | 278  | 5575     | 0.076 | ng    | # 86     |
| 41) Benzo(g,h,i)perylene      | 27.756 | 276  | 5711     | 0.066 | ng    | # 90     |
| -----                         |        |      |          |       |       |          |

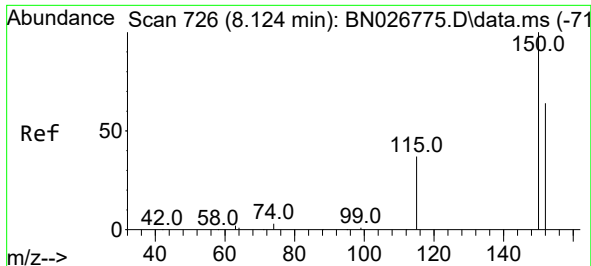
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : 03909-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_N  
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SP-201-20230803

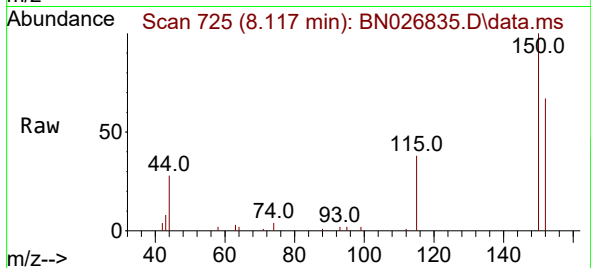
Quant Time: Aug 08 00:51:13 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN080123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 02 00:35:47 2023  
Response via : Initial Calibration



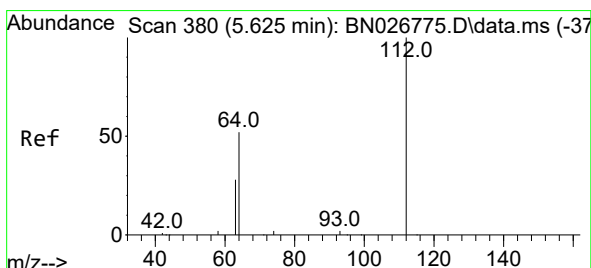
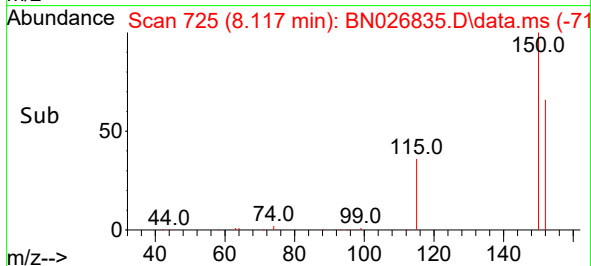
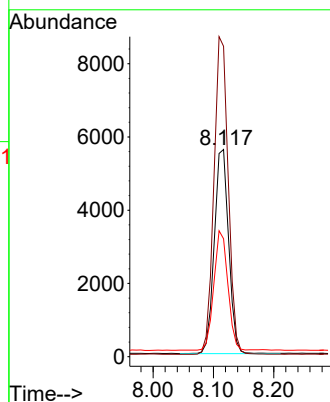


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 8.117 min Scan# 71  
Delta R.T. -0.007 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Instrument :  
BNA\_N  
ClientSampleId :  
SP-201-20230803

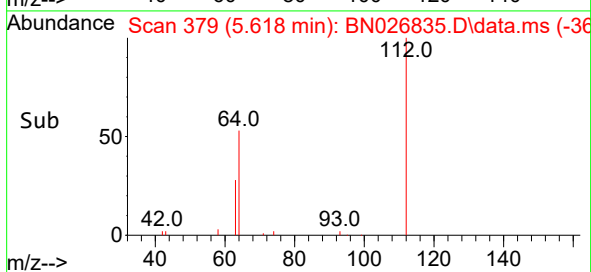
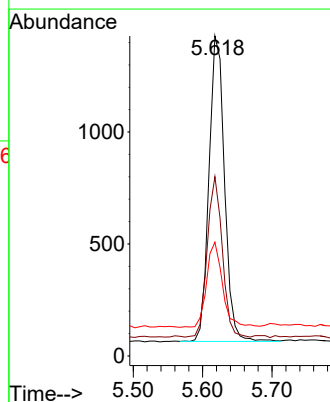
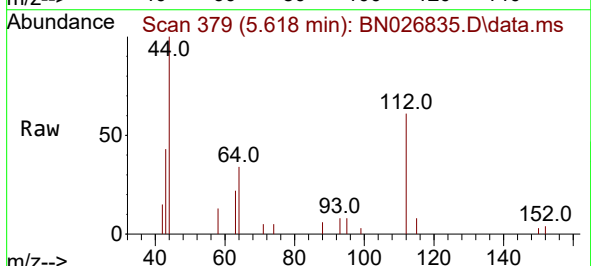


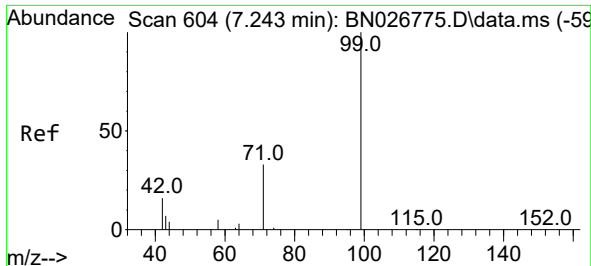
Tgt Ion:152 Resp: 9222  
Ion Ratio Lower Upper  
152 100  
150 149.8 123.8 185.8  
115 56.9 48.0 72.0



#4  
2-Fluorophenol  
Concen: 0.091 ng  
RT: 5.618 min Scan# 379  
Delta R.T. -0.007 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Tgt Ion:112 Resp: 2120  
Ion Ratio Lower Upper  
112 100  
64 50.9 42.2 63.2  
63 28.5 22.7 34.1

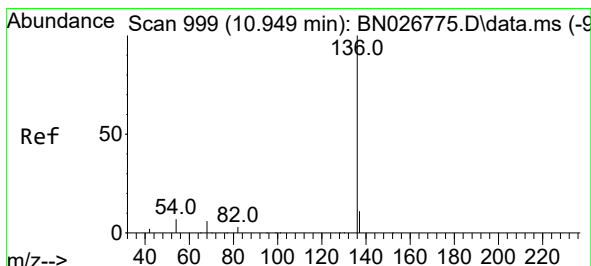
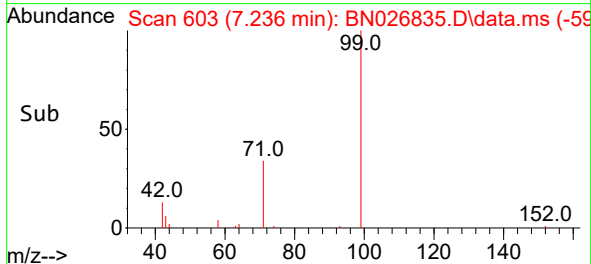
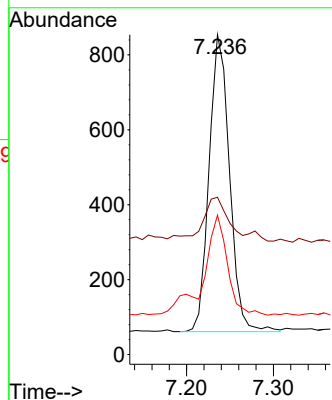
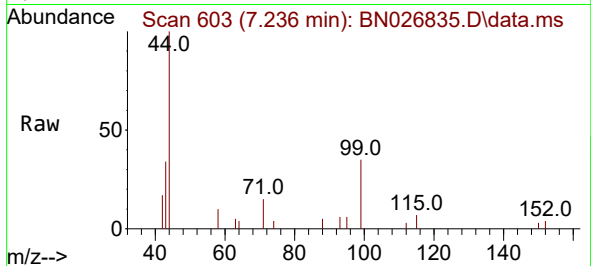




#5  
Phenol-d6  
Concen: 0.043 ng  
RT: 7.236 min Scan# 604  
Delta R.T. -0.007 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

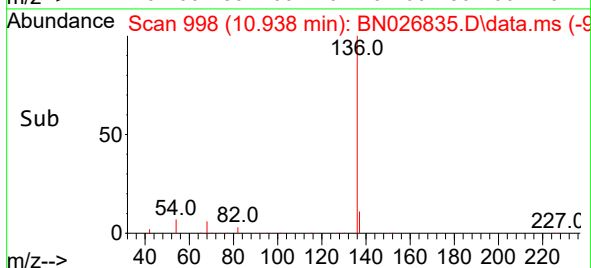
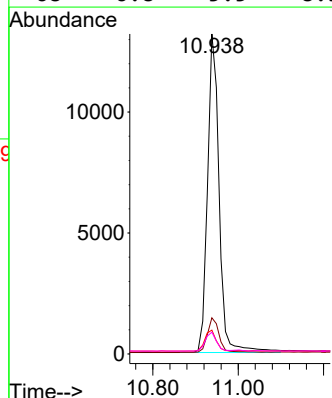
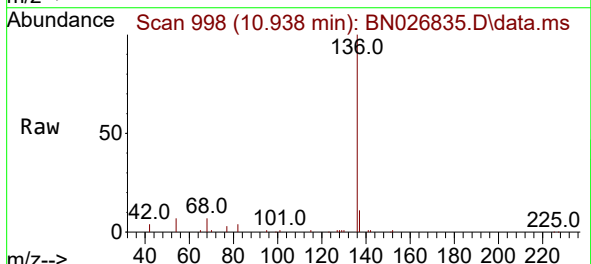
Instrument :  
BNA\_N  
ClientSampleId :  
SP-201-20230803

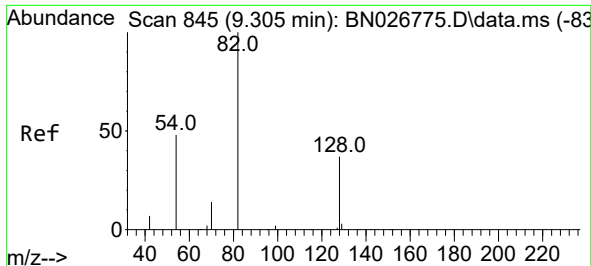
Tgt Ion: 99 Resp: 1298  
Ion Ratio Lower Upper  
99 100  
42 20.4 14.6 22.0  
71 39.8 26.6 40.0



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.938 min Scan# 998  
Delta R.T. -0.011 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Tgt Ion: 136 Resp: 24904  
Ion Ratio Lower Upper  
136 100  
137 11.3 9.0 13.4  
54 7.4 6.2 9.2  
68 6.8 5.5 8.3

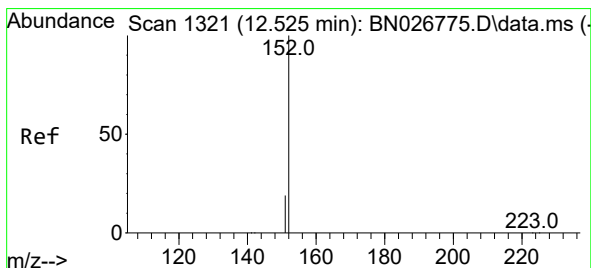
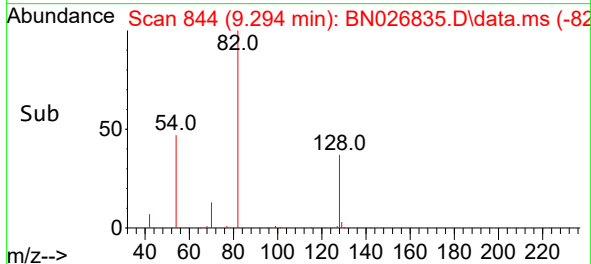
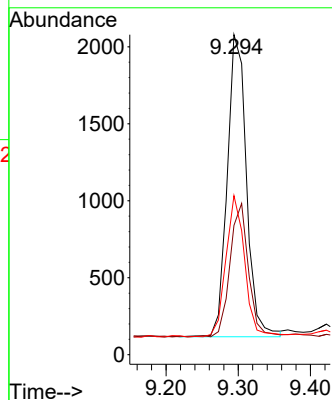
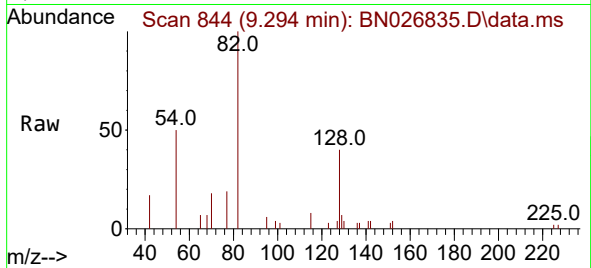




#8  
Nitrobenzene-d5  
Concen: 0.246 ng  
RT: 9.294 min Scan# 845  
Delta R.T. -0.011 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

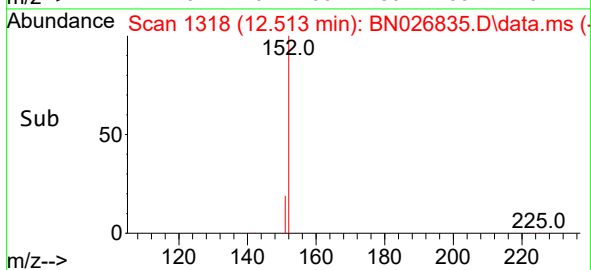
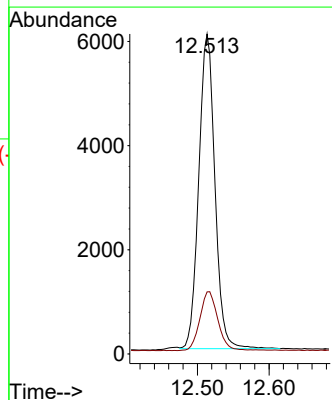
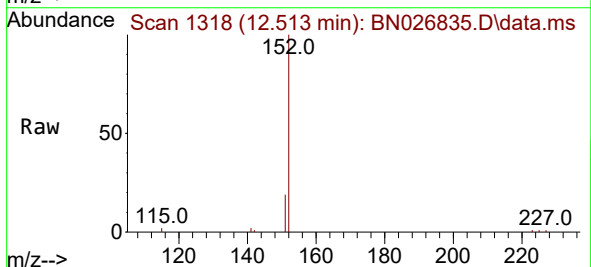
Instrument :  
BNA\_N  
ClientSampleId :  
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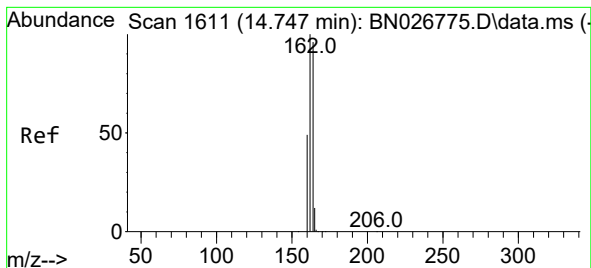
Tgt Ion: 82 Resp: 3624  
Ion Ratio Lower Upper  
82 100  
128 40.4 30.5 45.7  
54 49.7 39.4 59.2



#11  
2-Methylnaphthalene-d10  
Concen: 0.265 ng  
RT: 12.513 min Scan# 1318  
Delta R.T. -0.011 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Tgt Ion: 152 Resp: 9478  
Ion Ratio Lower Upper  
152 100  
151 21.1 16.5 24.7





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.737 min Scan# 1610

Delta R.T. -0.011 min

Lab File: BN026835.D

Acq: 07 Aug 2023 17:44

Instrument :

BNA\_N

ClientSampleId :

SP-201-20230803

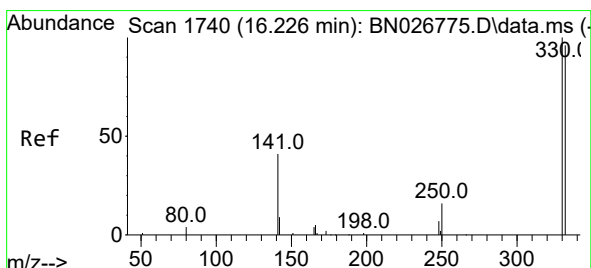
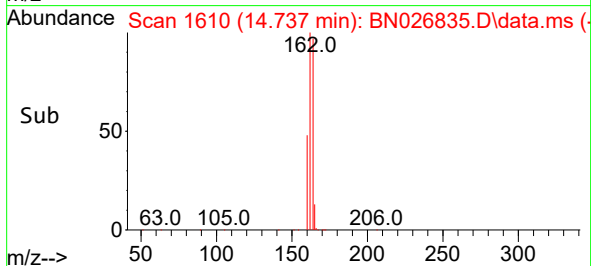
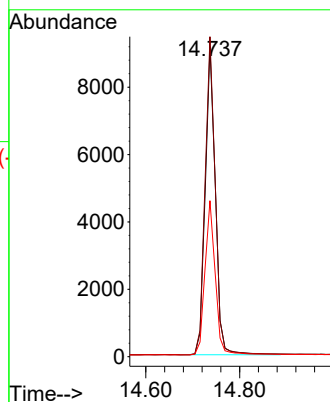
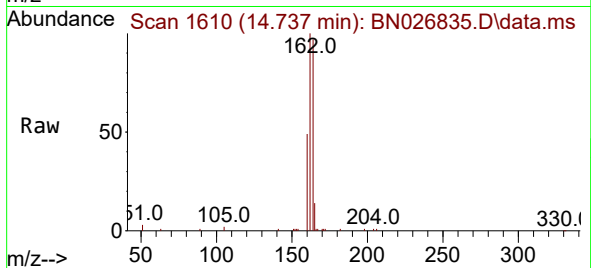
Tgt Ion:164 Resp: 13755

Ion Ratio Lower Upper

164 100

162 103.1 83.0 124.6

160 50.3 40.8 61.2



#14

2,4,6-Tribromophenol

Concen: 0.316 ng

RT: 16.226 min Scan# 1740

Delta R.T. 0.000 min

Lab File: BN026835.D

Acq: 07 Aug 2023 17:44

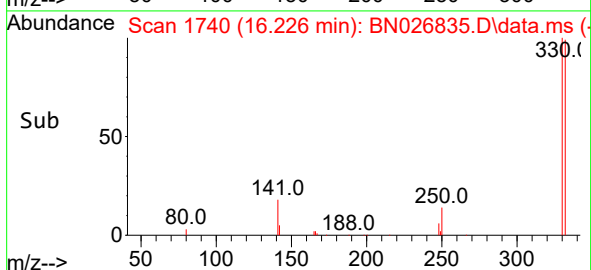
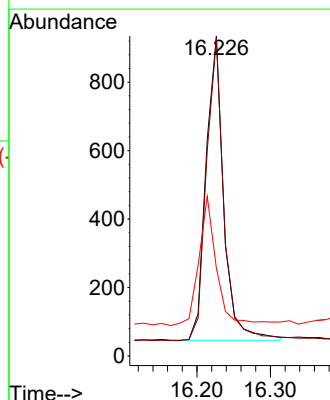
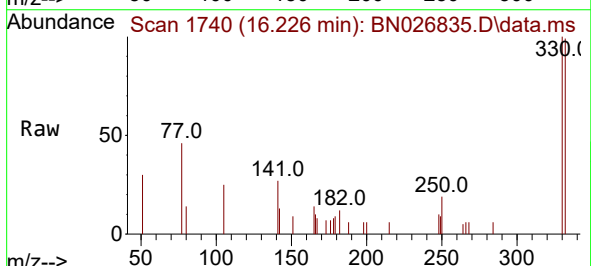
Tgt Ion:330 Resp: 1481

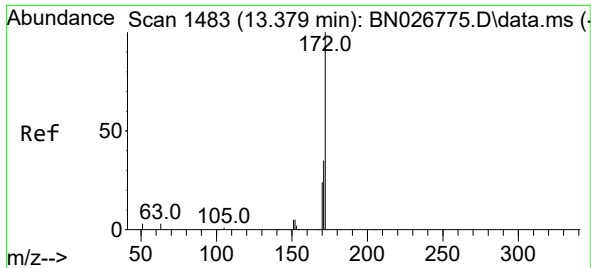
Ion Ratio Lower Upper

330 100

332 98.0 77.8 116.6

141 42.8 34.8 52.2

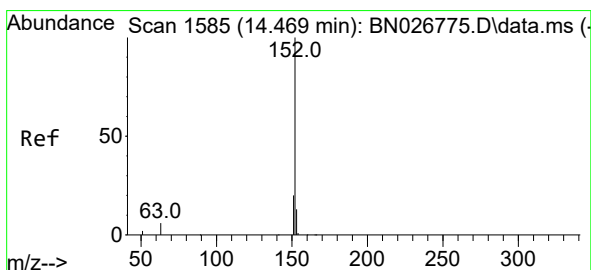
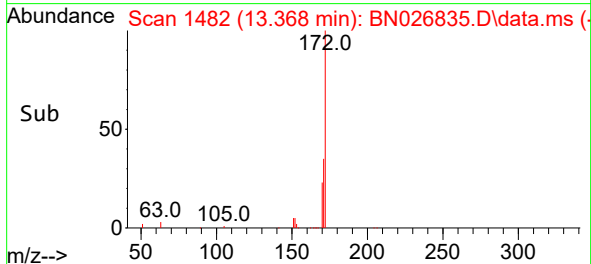
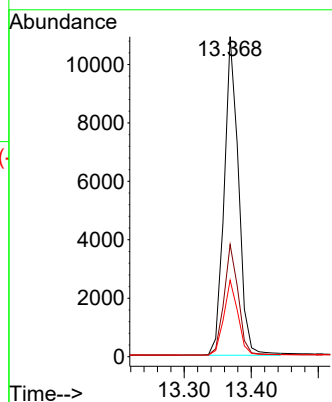
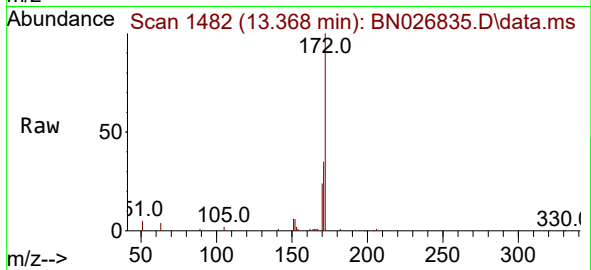




#15  
2-Fluorobiphenyl  
Concen: 0.290 ng  
RT: 13.368 min Scan# 1482  
Delta R.T. -0.011 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

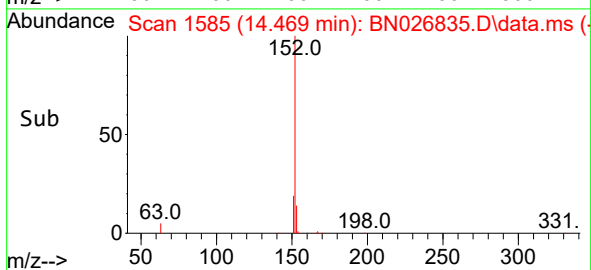
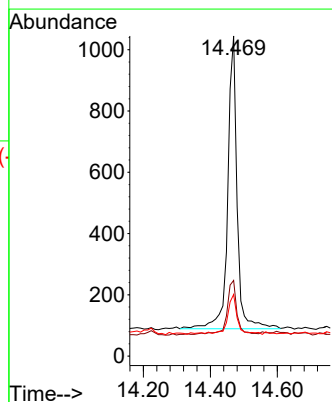
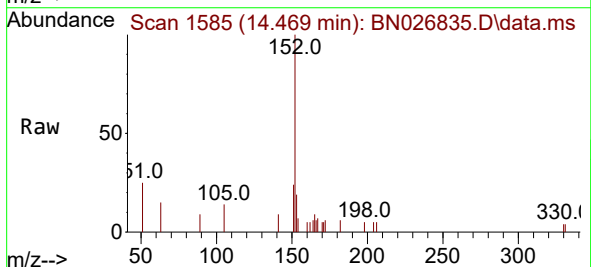
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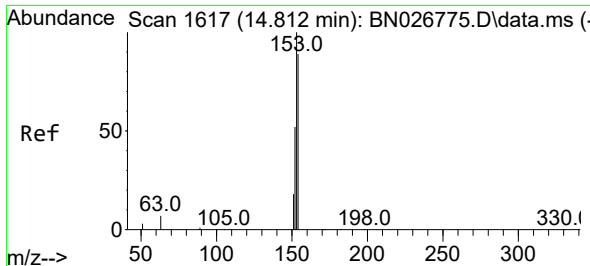
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Ion Ratio Lower Upper  
172 100  
171 35.0 28.0 42.0  
170 23.9 19.2 28.8



#16  
Acenaphthylene  
Concen: 0.028 ng  
RT: 14.469 min Scan# 1585  
Delta R.T. 0.000 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Tgt Ion:152 Resp: 1870  
Ion Ratio Lower Upper  
152 100  
151 19.1 15.7 23.5  
153 14.0 10.5 15.7

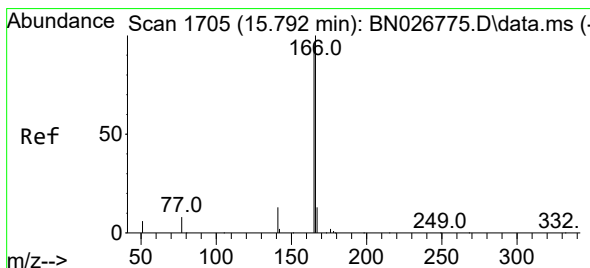
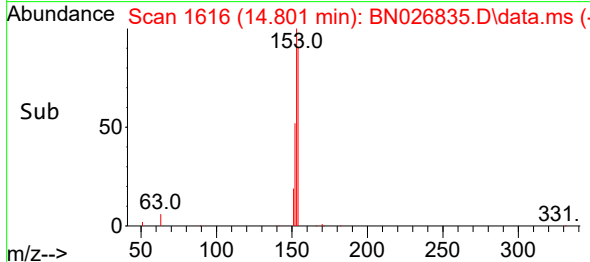
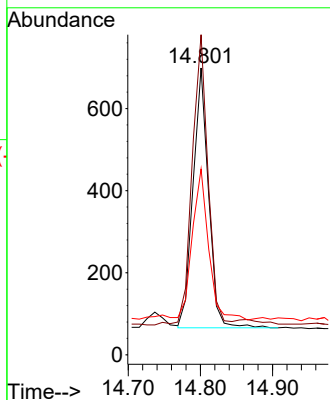
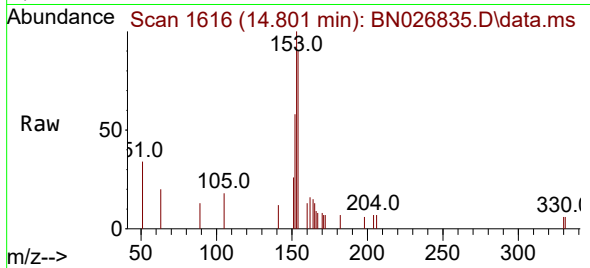




#17  
Acenaphthene  
Concen: 0.022 ng  
RT: 14.801 min Scan# 1616  
Delta R.T. -0.011 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

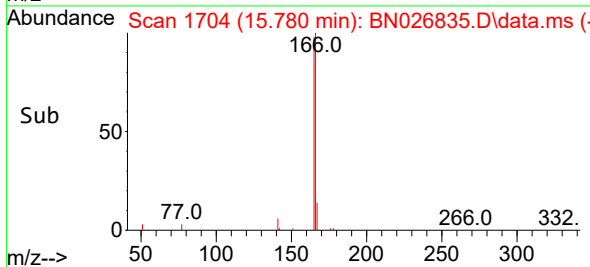
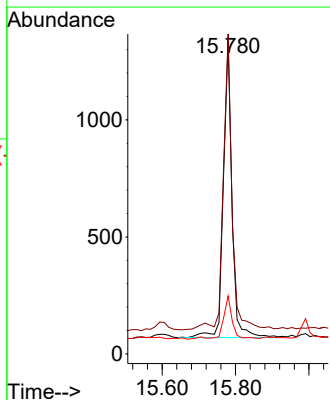
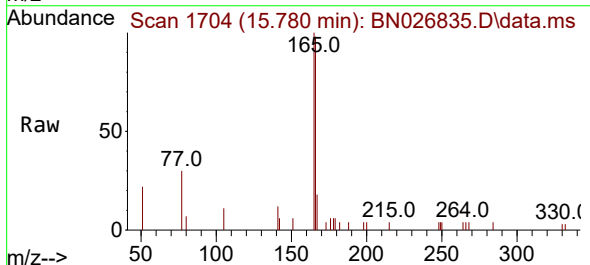
Instrument :  
BNA\_N  
ClientSampleId :  
SP-201-20230803

Tgt Ion:154 Resp: 945  
Ion Ratio Lower Upper  
154 100  
153 113.8 90.0 135.0  
152 60.3 48.6 73.0

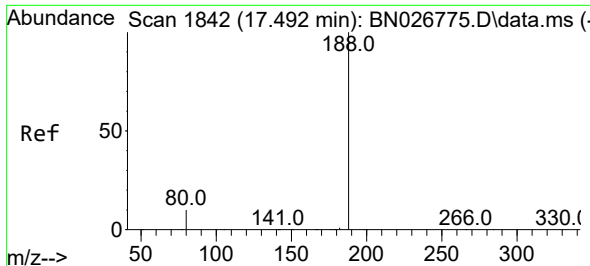


#18  
Fluorene  
Concen: 0.037 ng  
RT: 15.780 min Scan# 1704  
Delta R.T. -0.012 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Tgt Ion:166 Resp: 2070  
Ion Ratio Lower Upper  
166 100  
165 101.5 79.0 118.6  
167 13.5 10.9 16.3



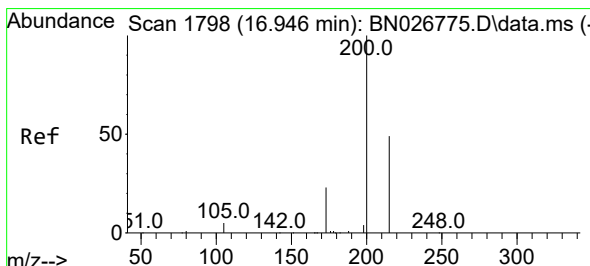
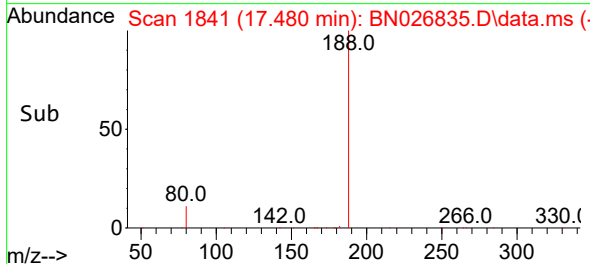
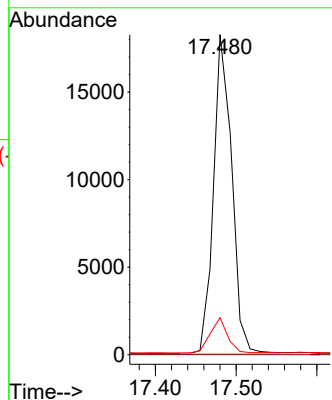
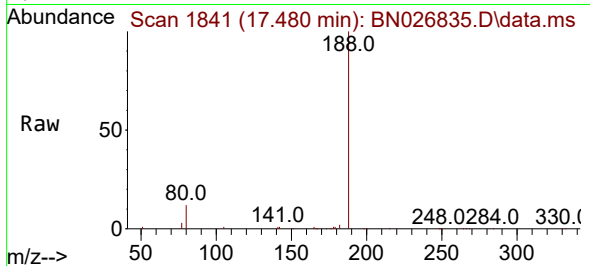




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.480 min Scan# 1842  
Delta R.T. -0.012 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

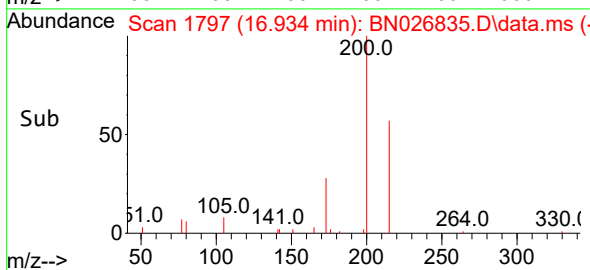
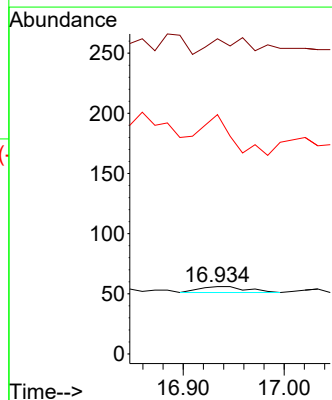
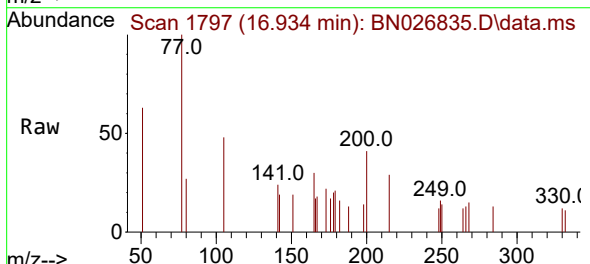
Instrument :  
BNA\_N  
ClientSampleId :  
SP-201-20230803

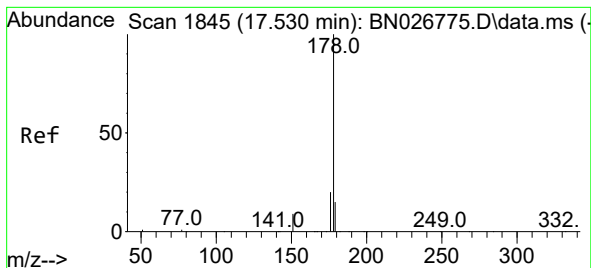
Tgt Ion:188 Resp: 28586  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 11.6 8.0 12.0



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.035 ng  
RT: 16.934 min Scan# 1797  
Delta R.T. -0.012 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Tgt Ion:198 Resp: 16  
Ion Ratio Lower Upper  
198 100  
51 467.9 150.5 225.7#  
105 355.4 165.0 247.6#





#25

Phenanthrene

Concen: 0.054 ng

RT: 17.530 min Scan# 1845

Delta R.T. 0.000 min

Lab File: BN026835.D

Acq: 07 Aug 2023 17:44

Instrument :

BNA\_N

ClientSampleId :

SP-201-20230803

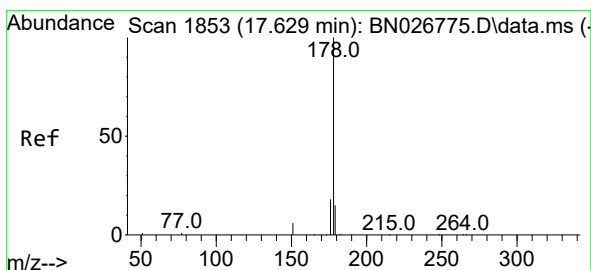
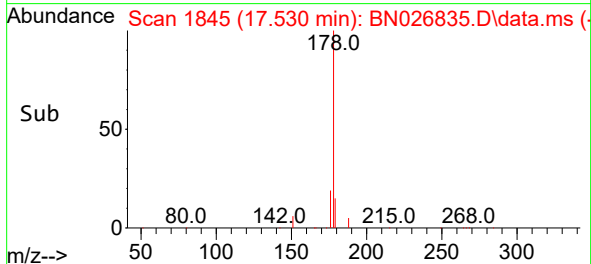
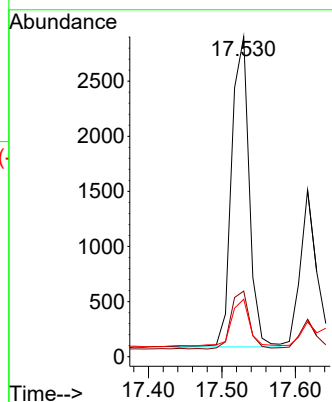
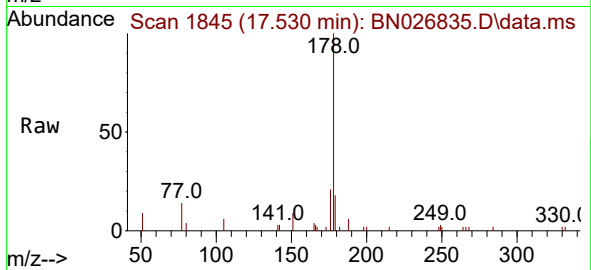
Tgt Ion:178 Resp: 4669

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

179 16.8 12.2 18.2



#26

Anthracene

Concen: 0.030 ng

RT: 17.617 min Scan# 1852

Delta R.T. -0.012 min

Lab File: BN026835.D

Acq: 07 Aug 2023 17:44

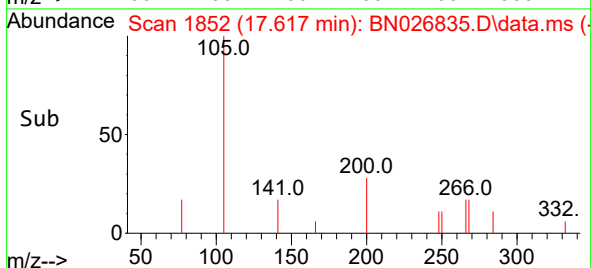
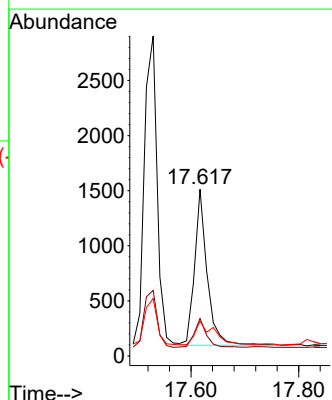
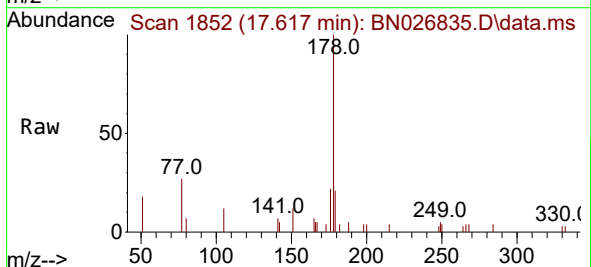
Tgt Ion:178 Resp: 2308

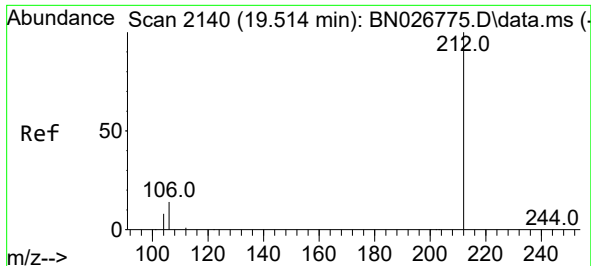
Ion Ratio Lower Upper

178 100

176 17.3 14.9 22.3

179 22.7 12.2 18.2#

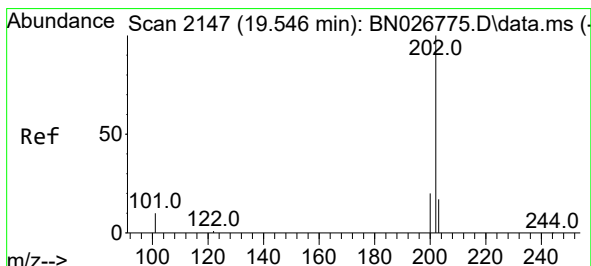
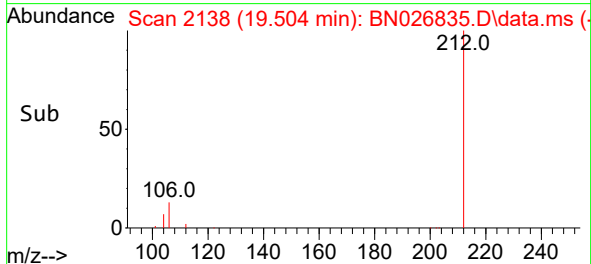
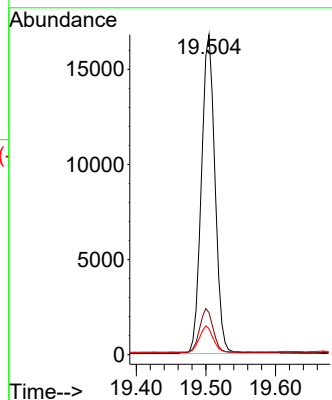
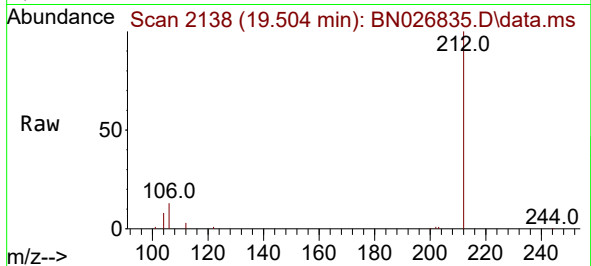




#27  
Fluoranthene-d10  
Concen: 0.331 ng  
RT: 19.504 min Scan# 2138  
Delta R.T. -0.009 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

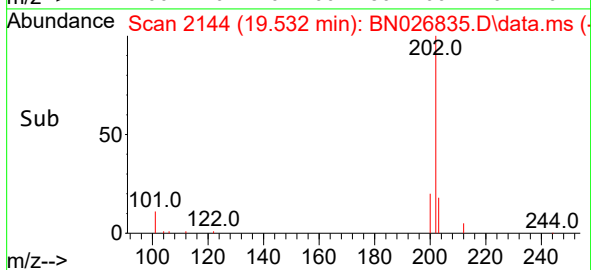
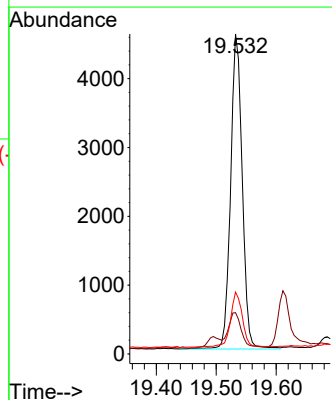
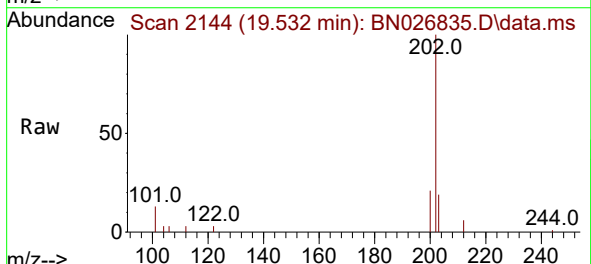
Instrument :  
BNA\_N  
ClientSampleId :  
SP-201-20230803

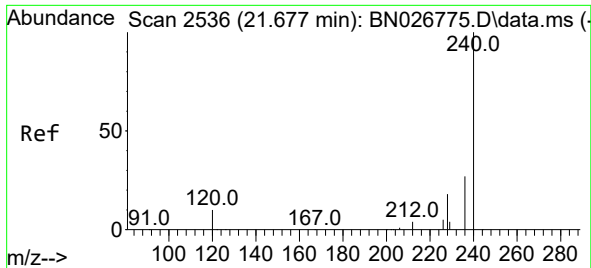
Tgt Ion:212 Resp: 22744  
Ion Ratio Lower Upper  
212 100  
106 13.9 11.7 17.5  
104 8.2 6.4 9.6



#28  
Fluoranthene  
Concen: 0.064 ng  
RT: 19.532 min Scan# 2144  
Delta R.T. -0.014 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Tgt Ion:202 Resp: 6168  
Ion Ratio Lower Upper  
202 100  
101 11.5 9.2 13.8  
203 17.9 13.7 20.5

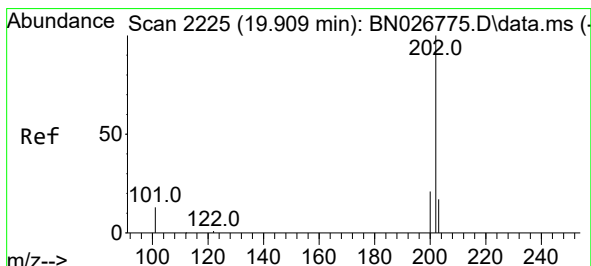
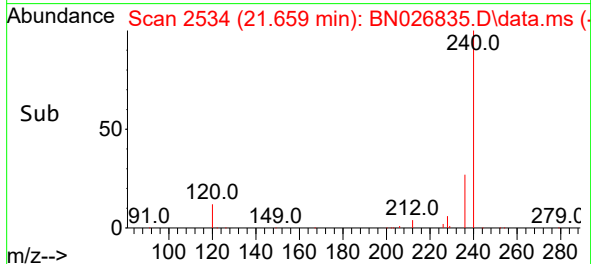
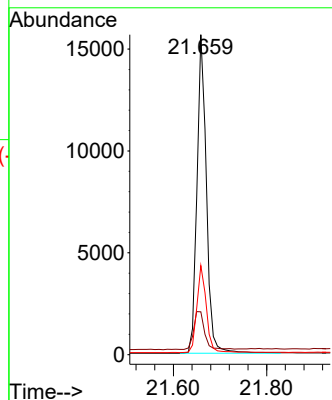
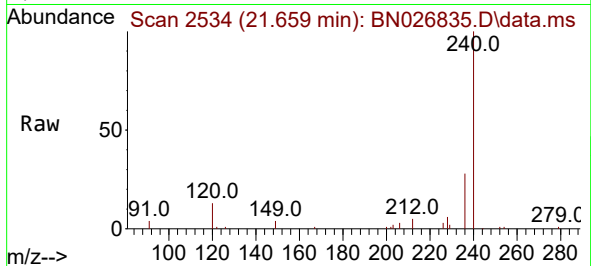




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.659 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

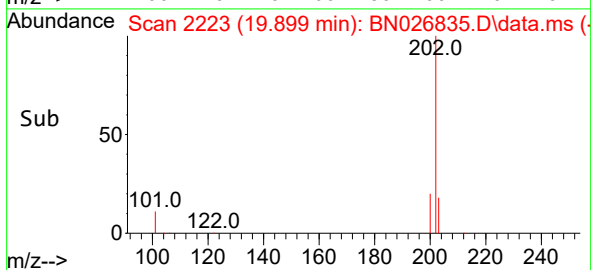
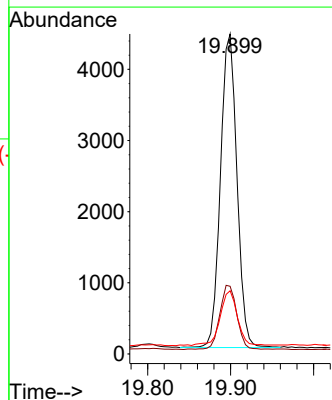
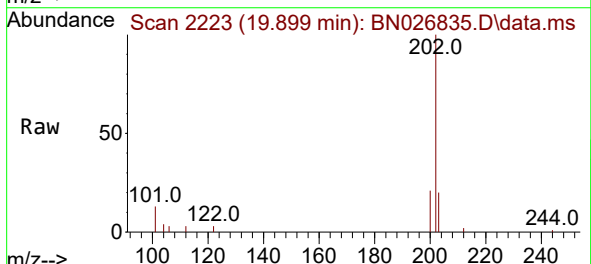
Instrument :  
BNA\_N  
ClientSampleId :  
SP-201-20230803

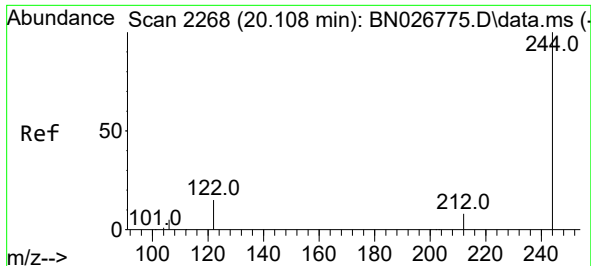
Tgt Ion:240 Resp: 22079  
Ion Ratio Lower Upper  
240 100  
120 13.4 9.2 13.8  
236 27.9 21.9 32.9



#30  
Pyrene  
Concen: 0.063 ng  
RT: 19.899 min Scan# 2223  
Delta R.T. -0.009 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Tgt Ion:202 Resp: 6046  
Ion Ratio Lower Upper  
202 100  
200 21.1 16.8 25.2  
203 18.5 14.2 21.2

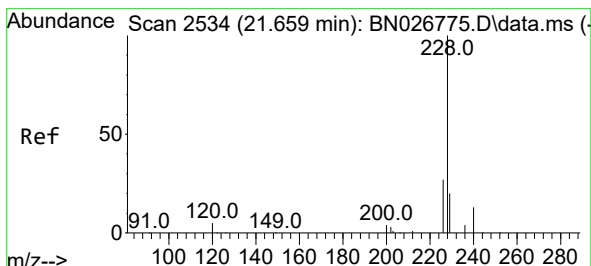
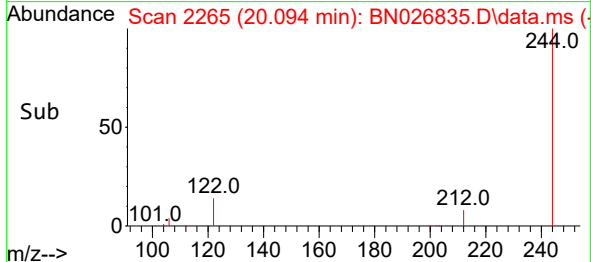
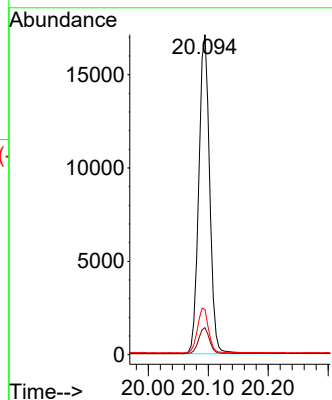
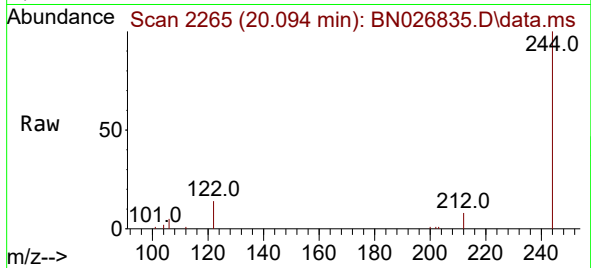




#31  
 Terphenyl-d14  
 Concen: 0.466 ng  
 RT: 20.094 min Scan# 21467  
 Delta R.T. -0.014 min  
 Lab File: BN026835.D  
 Acq: 07 Aug 2023 17:44

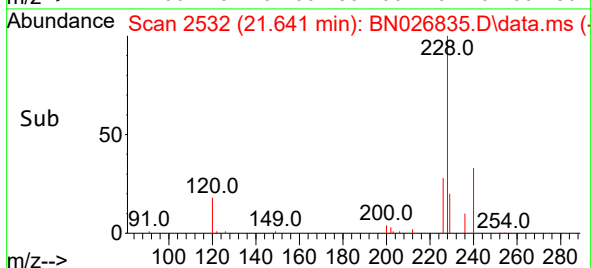
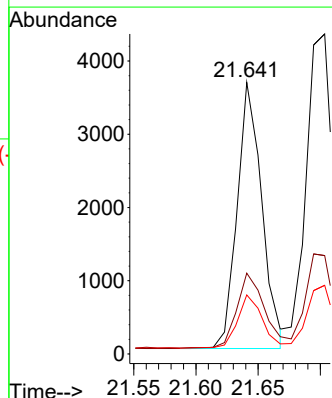
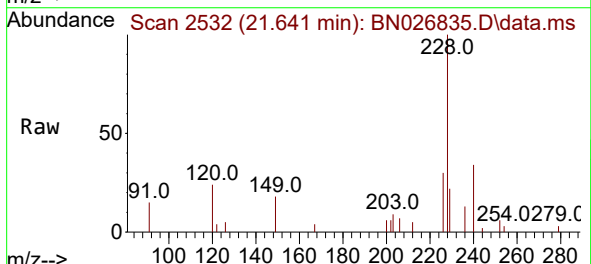
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SP-201-20230803

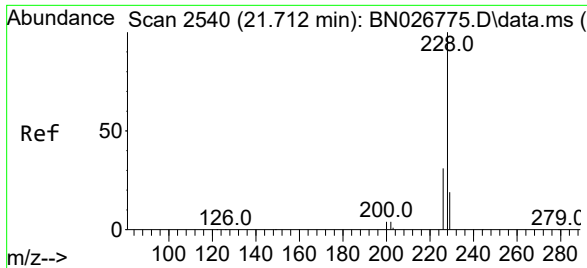
Tgt Ion:244 Resp: 21467  
 Ion Ratio Lower Upper  
 244 100  
 212 8.4 7.0 10.4  
 122 14.2 12.3 18.5



#32  
 Benzo(a)anthracene  
 Concen: 0.066 ng  
 RT: 21.641 min Scan# 2532  
 Delta R.T. -0.018 min  
 Lab File: BN026835.D  
 Acq: 07 Aug 2023 17:44

Tgt Ion:228 Resp: 5010  
 Ion Ratio Lower Upper  
 228 100  
 226 29.8 21.9 32.9  
 229 21.7 15.8 23.8





#33

Chrysene

Concen: 0.079 ng

RT: 21.704 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN026835.D

Acq: 07 Aug 2023 17:44

Instrument :

BNA\_N

ClientSampleId :

SP-201-20230803

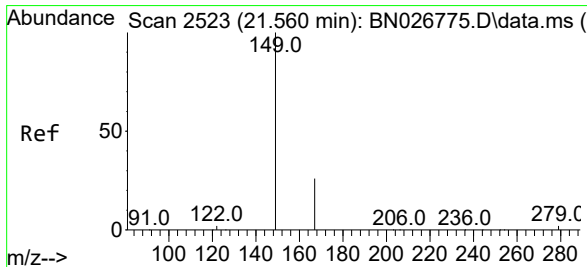
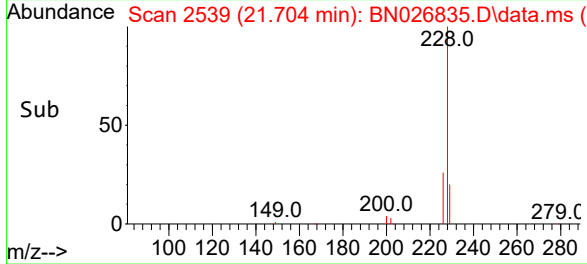
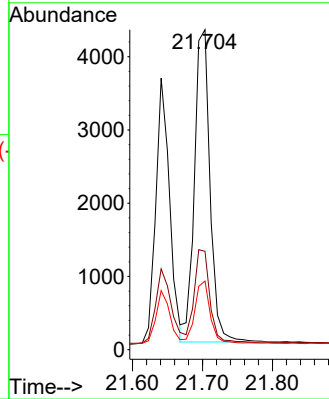
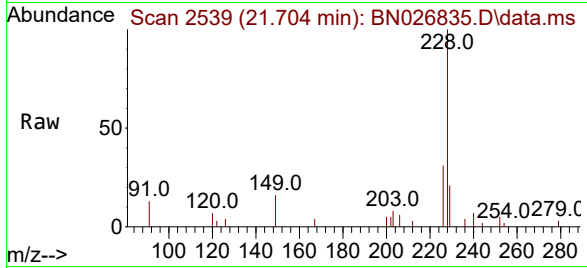
Tgt Ion:228 Resp: 6620

Ion Ratio Lower Upper

228 100

226 30.7 24.6 36.8

229 21.5 15.4 23.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.270 ng

RT: 21.542 min Scan# 2521

Delta R.T. -0.018 min

Lab File: BN026835.D

Acq: 07 Aug 2023 17:44

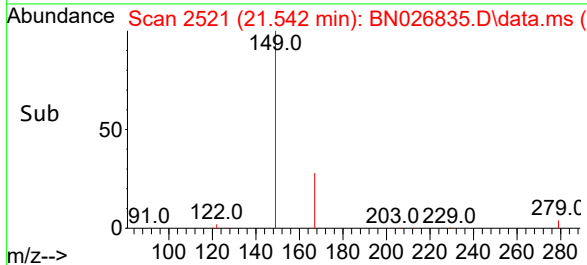
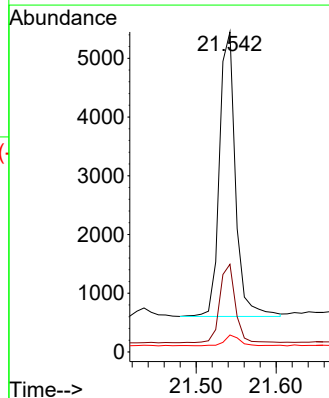
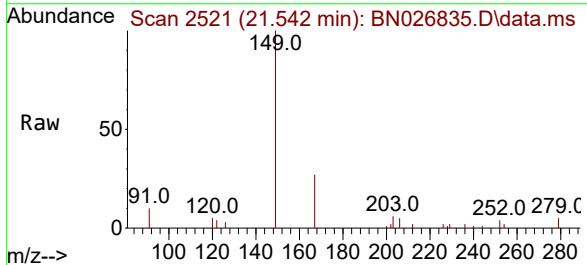
Tgt Ion:149 Resp: 6772

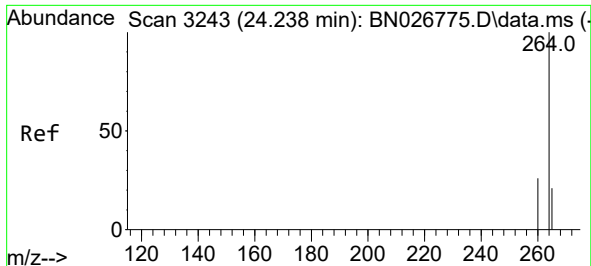
Ion Ratio Lower Upper

149 100

167 26.7 20.8 31.2

279 3.7 2.4 3.6#



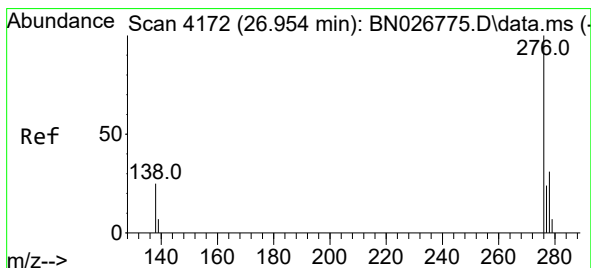
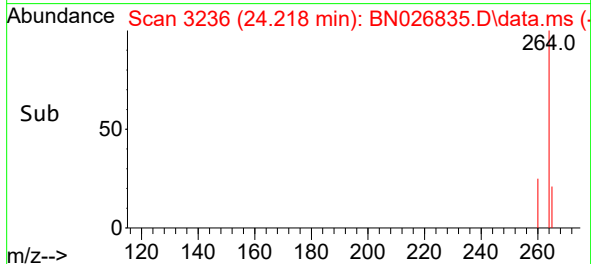
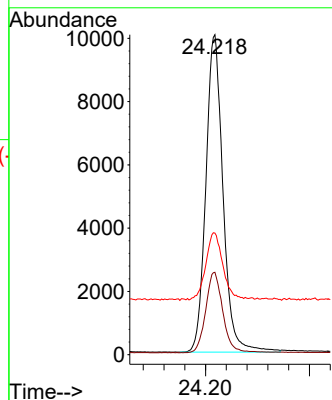
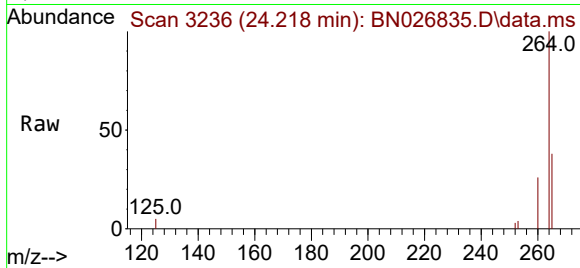


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 24.218 min Scan# 31  
Delta R.T. -0.020 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Instrument :  
BNA\_N  
ClientSampleId :  
SP-201-20230803

Tgt Ion:264 Resp: 22995  

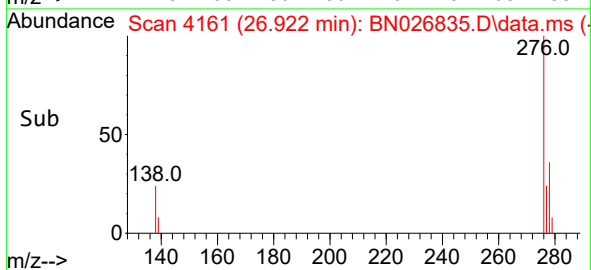
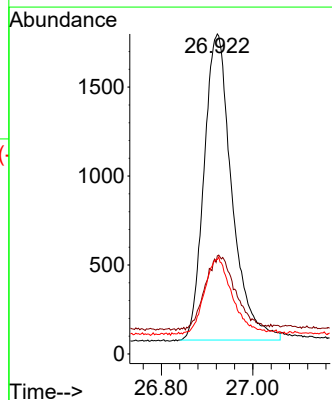
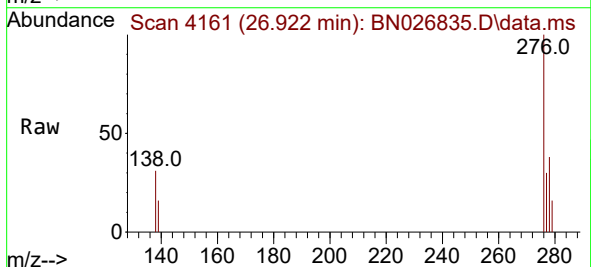
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 25.8  | 21.0  | 31.6  |
| 265 | 38.0  | 22.6  | 33.8  |

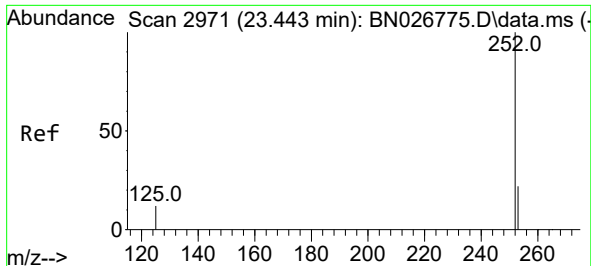


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.077 ng  
RT: 26.922 min Scan# 4161  
Delta R.T. -0.032 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Tgt Ion:276 Resp: 7269  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 26.6  | 22.8  | 34.2  |
| 277 | 24.8  | 19.9  | 29.9  |

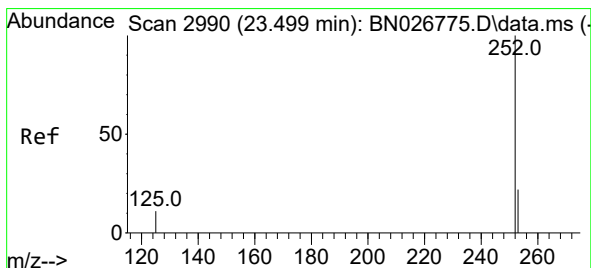
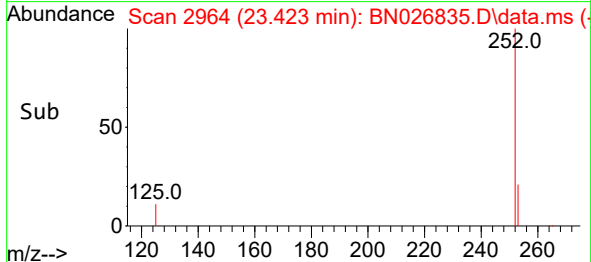
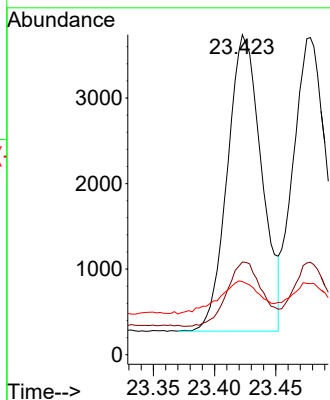
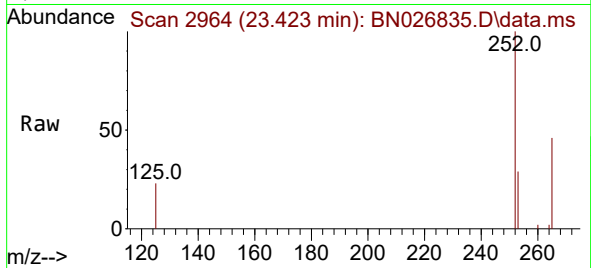




#37  
Benzo(b)fluoranthene  
Concen: 0.074 ng  
RT: 23.423 min Scan# 2971  
Delta R.T. -0.020 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

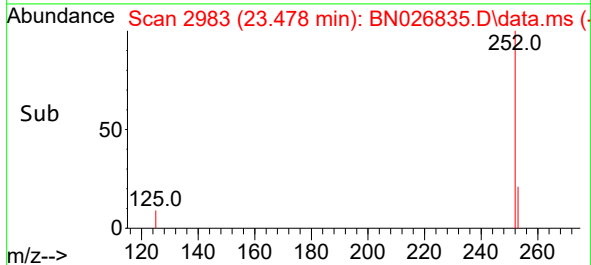
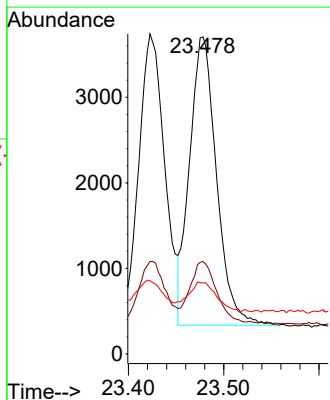
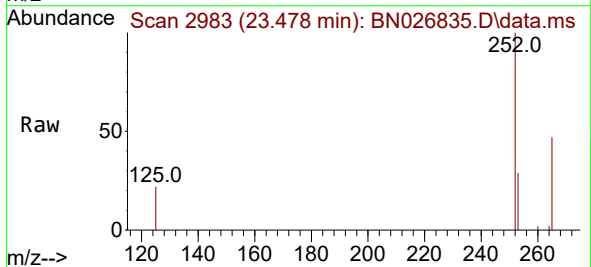
Instrument :  
BNA\_N  
ClientSampleId :  
SP-201-20230803

Tgt Ion:252 Resp: 6729  
Ion Ratio Lower Upper  
252 100  
253 29.0 17.8 26.8#  
125 22.8 10.8 16.2#

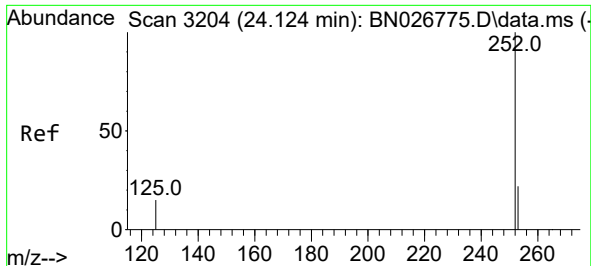


#38  
Benzo(k)fluoranthene  
Concen: 0.071 ng  
RT: 23.478 min Scan# 2983  
Delta R.T. -0.020 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Tgt Ion:252 Resp: 6639  
Ion Ratio Lower Upper  
252 100  
253 29.2 18.0 27.0#  
125 22.4 9.4 14.2#

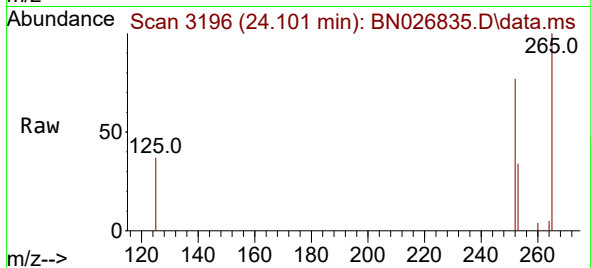




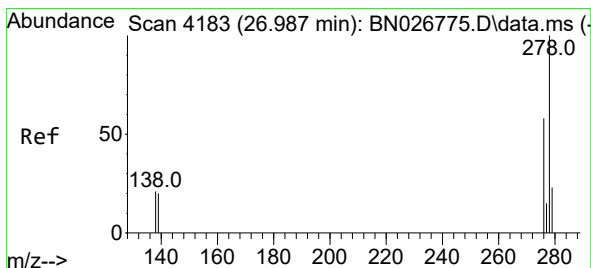
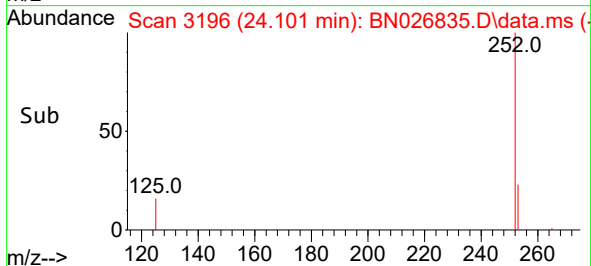
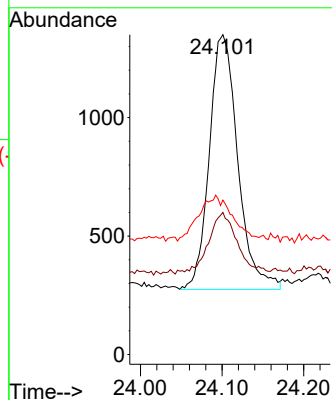


#39  
Benzo(a)pyrene  
Concen: 0.032 ng  
RT: 24.101 min Scan# 3196  
Delta R.T. -0.023 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Instrument :  
BNA\_N  
ClientSampleId :  
SP-201-20230803

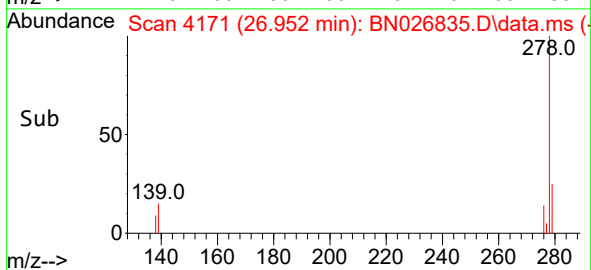
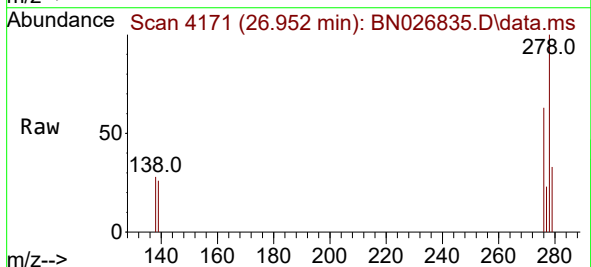
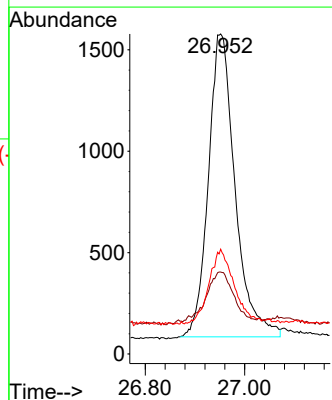


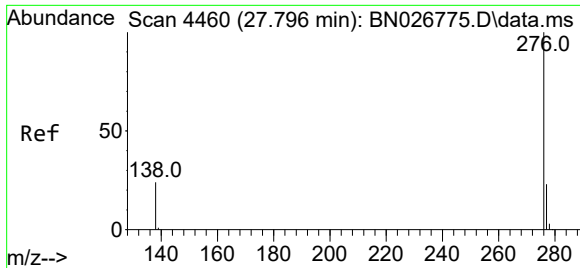
Tgt Ion:252 Resp: 2614  
Ion Ratio Lower Upper  
252 100  
253 44.4 18.5 27.7#  
125 48.3 12.7 19.1#



#40  
Dibenzo(a,h)anthracene  
Concen: 0.076 ng  
RT: 26.952 min Scan# 4171  
Delta R.T. -0.035 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

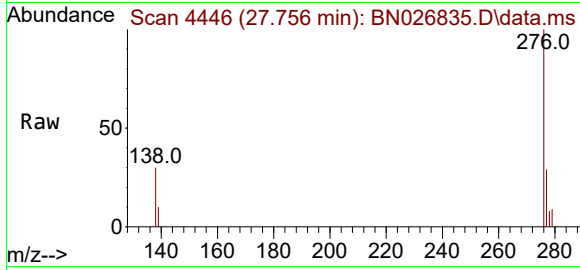
Tgt Ion:278 Resp: 5575  
Ion Ratio Lower Upper  
278 100  
139 25.6 16.8 25.2#  
279 32.8 19.5 29.3#





#41  
Benzo(g,h,i)perylene  
Concen: 0.066 ng  
RT: 27.756 min Scan# 44  
Delta R.T. -0.041 min  
Lab File: BN026835.D  
Acq: 07 Aug 2023 17:44

Instrument :  
BNA\_N  
ClientSampleId :  
SP-201-20230803



Tgt Ion:276 Resp: 5711  
Ion Ratio Lower Upper  
276 100  
277 29.0 19.1 28.7#  
138 29.9 19.8 29.6#

