

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN052324\  
 Data File : BN031641.D  
 Acq On : 23 May 2024 20:52  
 Operator : MA/JU  
 Sample : P2547-17  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BH5X4

Quant Time: May 23 22:53:42 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue May 21 23:42:49 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.693  | 152  | 394914   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.475 | 136  | 1479626  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.328 | 164  | 775956   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.075 | 188  | 1515588  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.304 | 240  | 1382827  | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.239 | 264  | 1771704  | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.205  | 96   | 34946    | 3.507  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.605  | 84   | 338768   | 12.184 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.852  | 99   | 574273   | 17.665 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.028  | 67   | 350232   | 17.963 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.222  | 132  | 475175   | 18.969 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.387  | 113  | 412161   | 16.377 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.846  | 128  | 208168   | 18.589 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.557  | 143  | 197293   | 18.450 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.093 | 165  | 387319   | 18.525 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.610 | 131  | 477089   | 15.830 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.740 | 166  | 1071035  | 21.902 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.016 | 160  | 1306179  | 21.311 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.522 | 143  | 148108   | 16.007 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.322 | 176  | 930998   | 21.969 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.440 | 200  | 76388    | 11.658 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.169 | 188  | 1478516  | 23.045 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.469 | 212  | 1679341  | 19.361 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.045 | 264  | 1861702  | 22.324 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 30) Naphthalene               | 10.522 | 128  | 227990   | 2.994  | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 12.140 | 142  | 99200    | 1.991  | ng/u1  | 96       |
| 37) 1-Methylnaphthalene       | 12.357 | 142  | 90336    | 1.831  | ng/u1  | 97       |
| 50) Acenaphthylene            | 14.051 | 152  | 257300   | 3.637  | ng/u1  | 98       |
| 52) Acenaphthene              | 14.393 | 153  | 390577   | 8.520  | ng/u1  | 94       |
| 56) Dibenzofuran              | 14.728 | 168  | 414725   | 6.777  | ng/u1  | 98       |
| 61) Fluorene                  | 15.375 | 166  | 428899   | 8.947  | ng/u1  | 98       |
| 72) Phenanthrene              | 17.116 | 178  | 7475658  | 97.193 | ng/u1  | 98       |
| 74) Anthracene                | 17.204 | 178  | 1803473  | 23.370 | ng/u1  | 98       |
| 77) Carbazole                 | 17.475 | 167  | 853890   | 12.967 | ng/u1  | 99       |
| 80) Fluoranthene              | 19.139 | 202  | 10175002 | 94.904 | ng/u1  | 99       |
| 82) Pyrene                    | 19.498 | 202  | 8989686  | 81.761 | ng/u1  | 96       |
| 83) Butylbenzylphthalate      | 20.404 | 149  | 188151   | 5.042  | ng/u1  | 99       |
| 85) Benzo(a)anthracene        | 21.286 | 228  | 5143335  | 55.311 | ng/u1  | 96       |
| 86) Bis(2-ethylhexyl)phtha... | 21.222 | 149  | 239788   | 4.693  | ng/u1  | 99       |
| 87) Chrysene                  | 21.286 | 228  | 5139531  | 59.835 | ng/u1  | 97       |
| 90) Benzo(b)fluoranthene      | 23.321 | 252  | 6758930  | 65.374 | ng/u1  | 98       |
| 91) Benzo(k)fluoranthene      | 23.374 | 252  | 2080432  | 19.740 | ng/u1  | 97       |
| 93) Benzo(a)pyrene            | 24.110 | 252  | 4902785  | 49.367 | ng/u1  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 27.557 | 276  | 3334376  | 27.974 | ng/u1  | 100      |
| 95) Dibenzo(a,h)anthracene    | 27.586 | 278  | 870729   | 8.871  | ng/u1  | 94       |
| 96) Benzo(g,h,i)perylene      | 28.580 | 276  | 3131672  | 31.801 | ng/u1  | 97       |
| -----                         |        |      |          |        |        |          |

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Acq On : 23 May 2024 20:52  
Operator : MA/JU  
Sample : P2547-17  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BH5X4

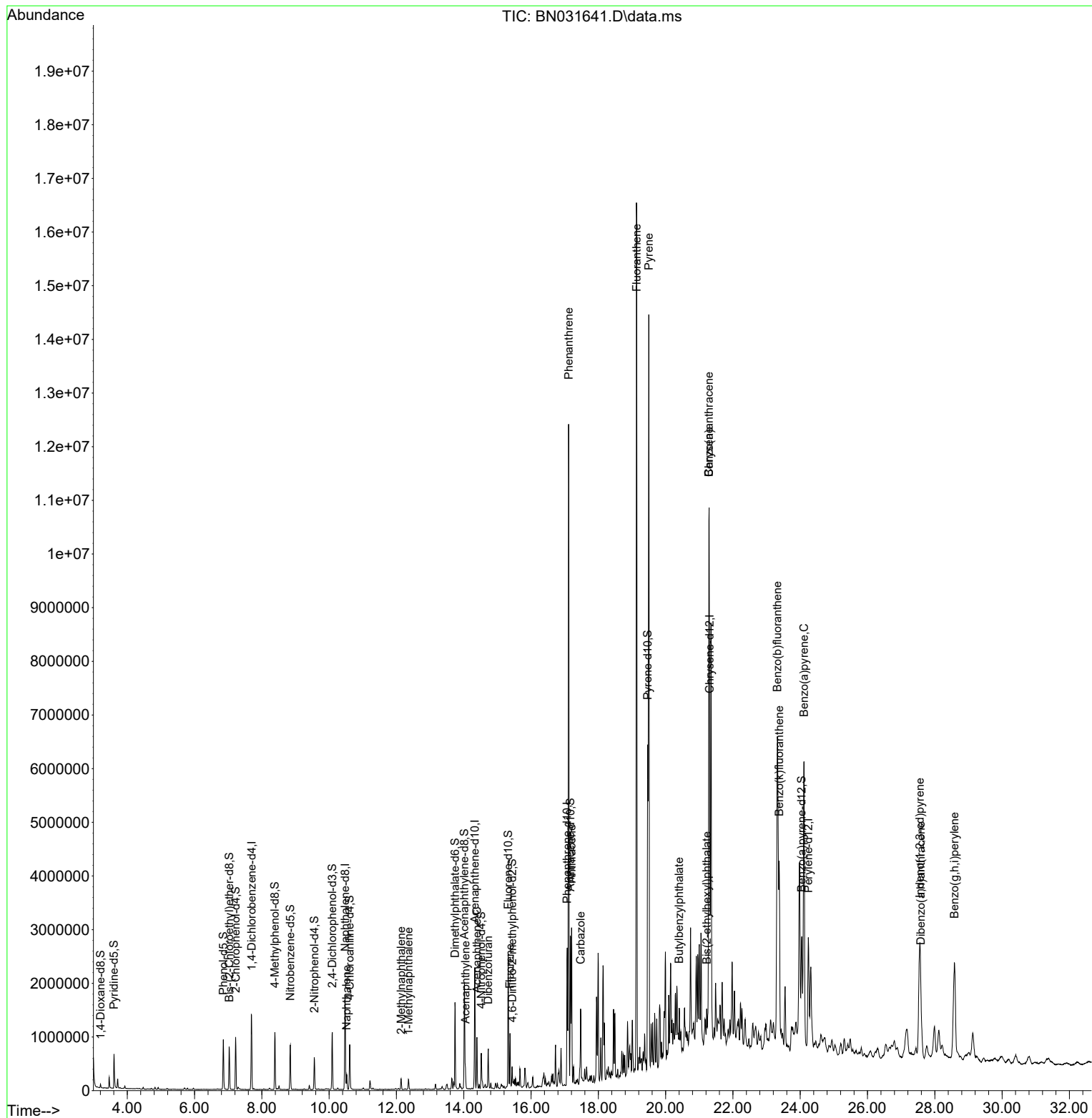
Quant Time: May 23 22:53:42 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN052124.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue May 21 23:42:49 2024  
Response via : Initial Calibration

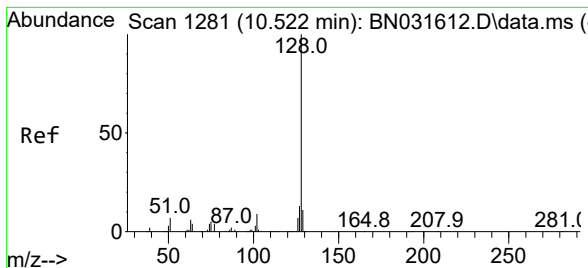
| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

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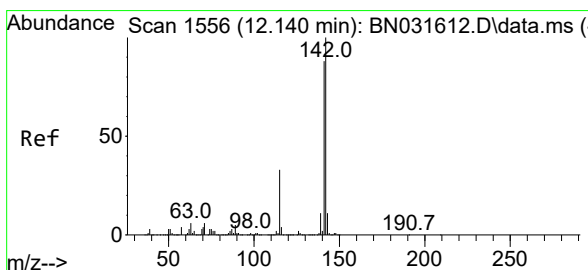
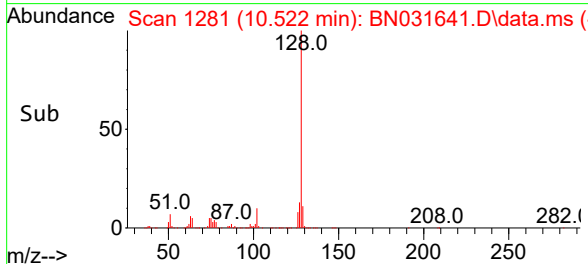
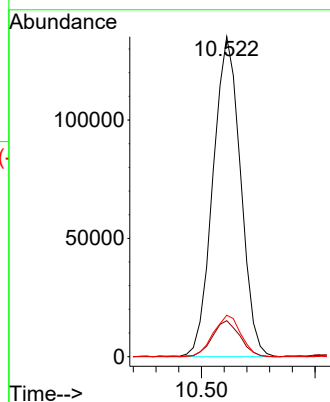
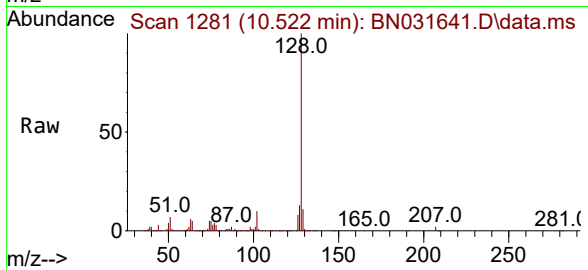




#30  
Naphthalene  
Concen: 2.994 ng/ul  
RT: 10.522 min Scan# 1281  
Delta R.T. -0.006 min  
Lab File: BN031641.D  
Acq: 23 May 2024 20:52

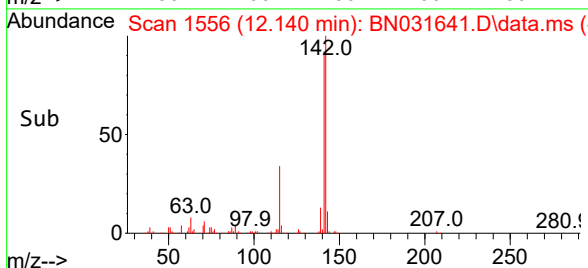
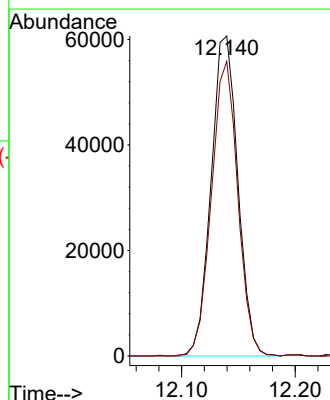
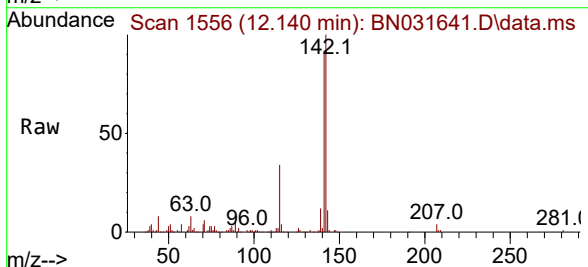
Instrument :  
BNA\_N  
ClientSampleId :  
BH5X4

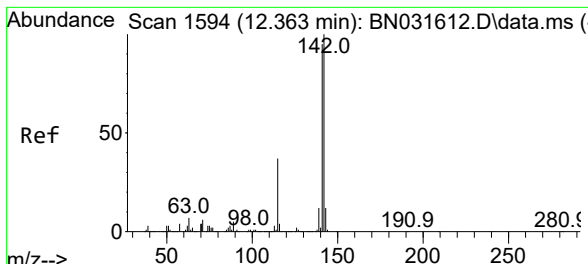
Tgt Ion:128 Resp: 227990  
Ion Ratio Lower Upper  
128 100  
129 11.2 8.8 13.2  
127 12.9 10.2 15.2



#36  
2-Methylnaphthalene  
Concen: 1.991 ng/ul  
RT: 12.140 min Scan# 1556  
Delta R.T. 0.000 min  
Lab File: BN031641.D  
Acq: 23 May 2024 20:52

Tgt Ion:142 Resp: 99200  
Ion Ratio Lower Upper  
142 100  
141 92.1 70.5 105.7

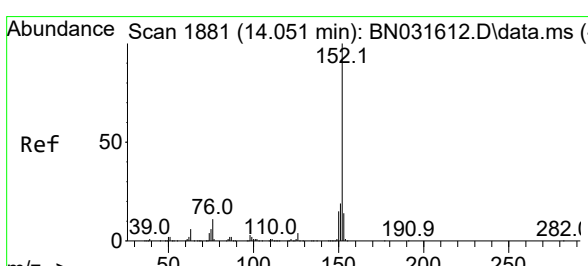
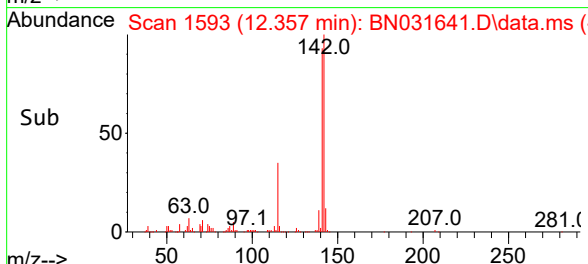
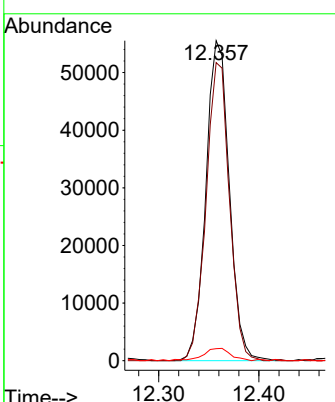
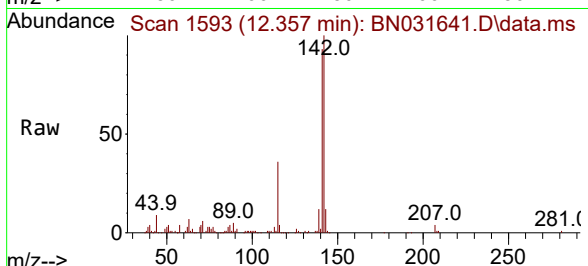




#37  
 1-Methylnaphthalene  
 Concen: 1.831 ng/ul  
 RT: 12.357 min Scan# 1593  
 Delta R.T. -0.006 min  
 Lab File: BN031641.D  
 Acq: 23 May 2024 20:52

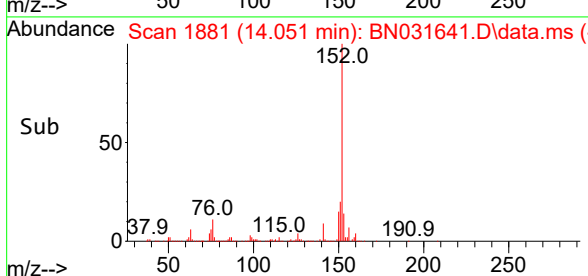
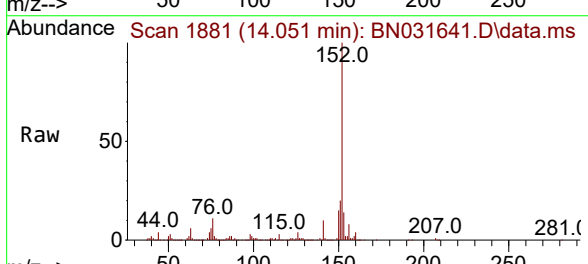
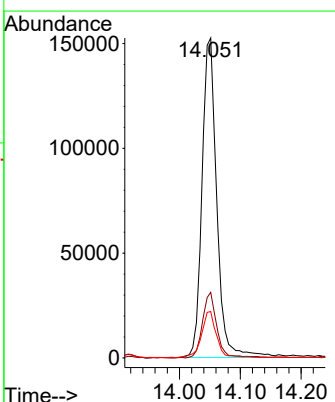
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BH5X4

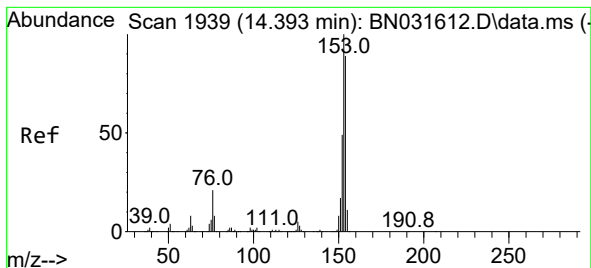
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 90336 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 93.1  | 77.0  | 115.6 |
| 116       | 3.7   | 3.0   | 4.6   |



#50  
 Acenaphthylene  
 Concen: 3.637 ng/ul  
 RT: 14.051 min Scan# 1881  
 Delta R.T. 0.000 min  
 Lab File: BN031641.D  
 Acq: 23 May 2024 20:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 257300 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.5  | 15.6  | 23.4   |
| 153       | 14.5  | 10.8  | 16.2   |





#52

Acenaphthene

Concen: 8.520 ng/ul

RT: 14.393 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN031641.D

Acq: 23 May 2024 20:52

Instrument :

BNA\_N

ClientSampleId :

BH5X4

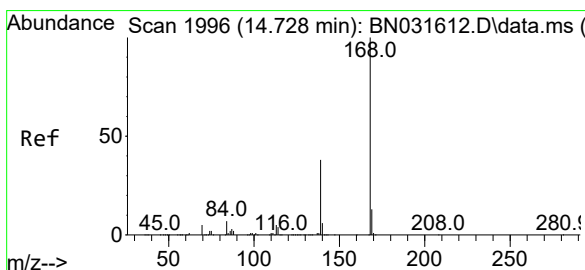
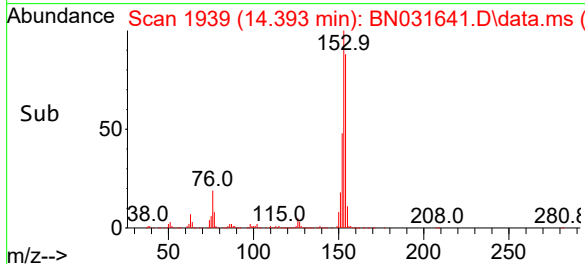
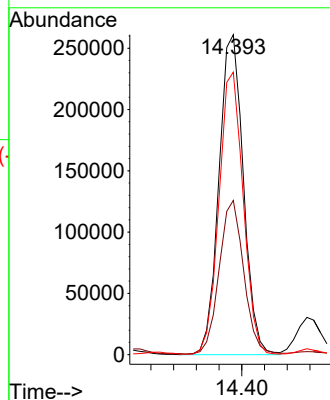
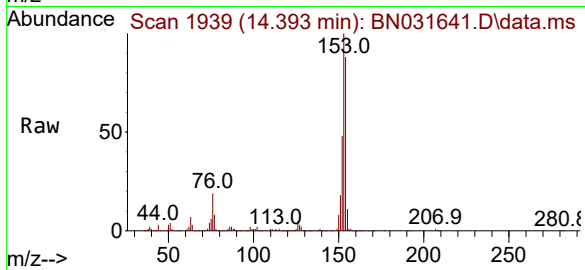
Tgt Ion:153 Resp: 390577

Ion Ratio Lower Upper

153 100

152 48.2 40.5 60.7

154 88.3 76.6 114.8



#56

Dibenzofuran

Concen: 6.777 ng/ul

RT: 14.728 min Scan# 1996

Delta R.T. 0.000 min

Lab File: BN031641.D

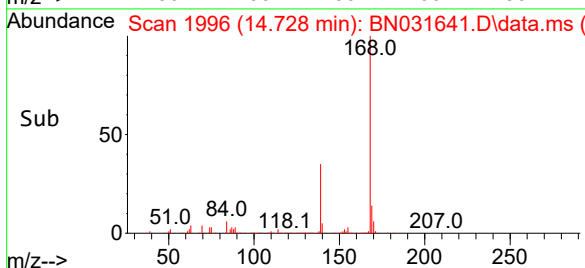
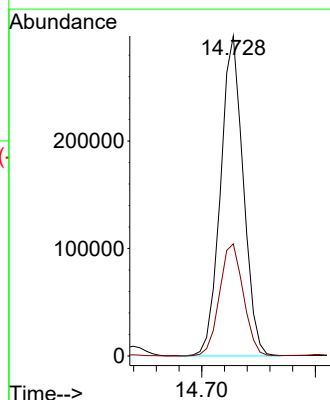
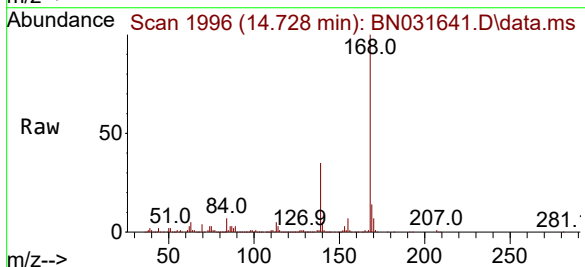
Acq: 23 May 2024 20:52

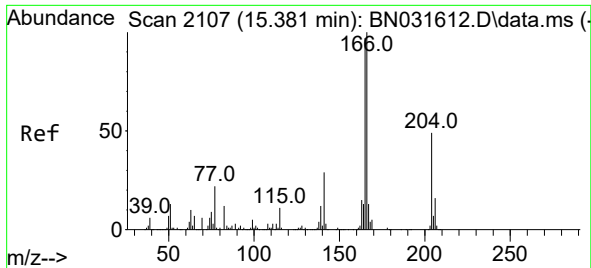
Tgt Ion:168 Resp: 414725

Ion Ratio Lower Upper

168 100

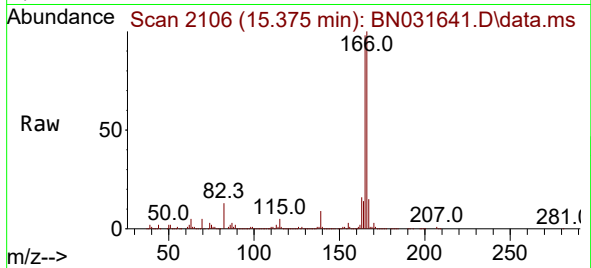
139 35.0 29.2 43.8



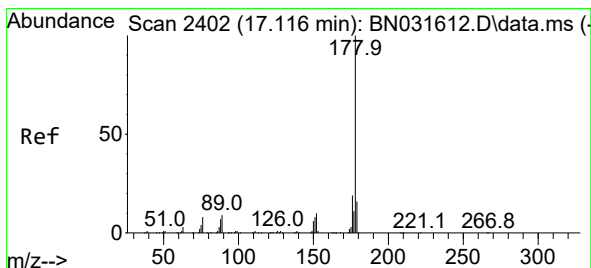
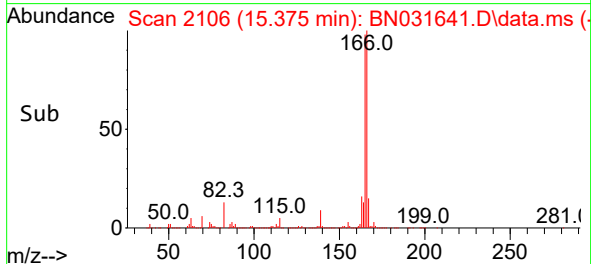
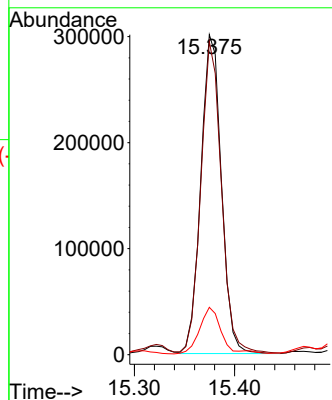


#61  
Fluorene  
Concen: 8.947 ng/ul  
RT: 15.375 min Scan# 2106  
Delta R.T. -0.006 min  
Lab File: BN031641.D  
Acq: 23 May 2024 20:52

Instrument :  
BNA\_N  
ClientSampleId :  
BH5X4

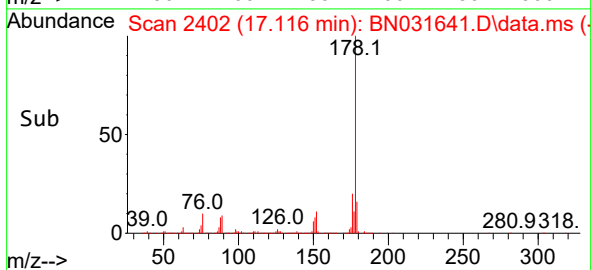
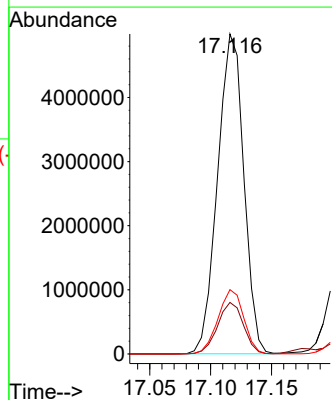
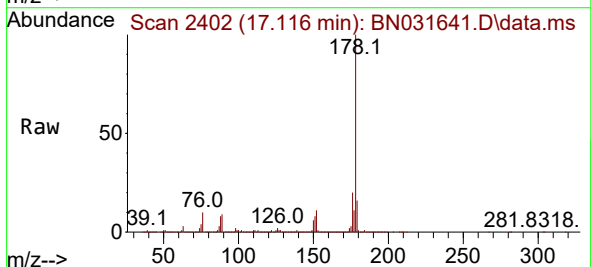


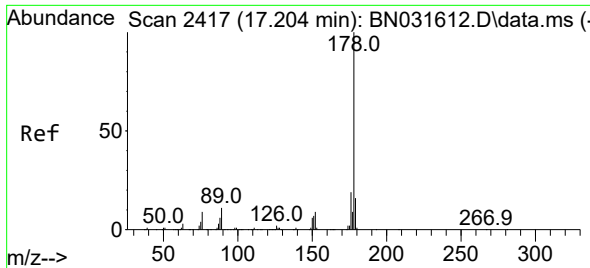
Tgt Ion:166 Resp: 428899  
Ion Ratio Lower Upper  
166 100  
165 97.9 77.0 115.6  
167 14.8 10.9 16.3



#72  
Phenanthrene  
Concen: 97.193 ng/ul  
RT: 17.116 min Scan# 2402  
Delta R.T. 0.000 min  
Lab File: BN031641.D  
Acq: 23 May 2024 20:52

Tgt Ion:178 Resp: 7475658  
Ion Ratio Lower Upper  
178 100  
179 16.1 12.6 18.8  
176 20.1 15.2 22.8

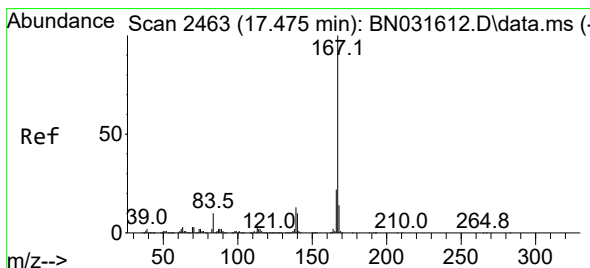
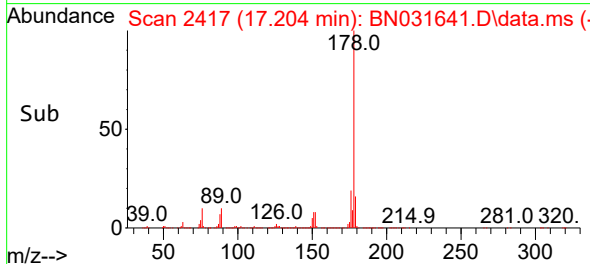
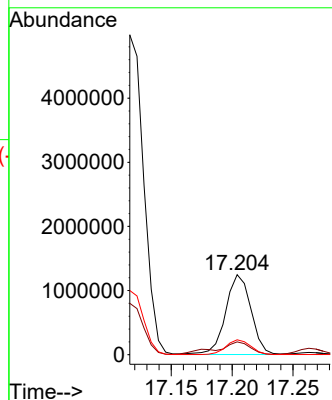
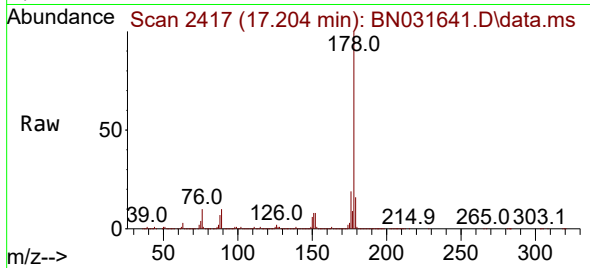




#74  
 Anthracene  
 Concen: 23.370 ng/ul  
 RT: 17.204 min Scan# 2417  
 Delta R.T. 0.000 min  
 Lab File: BN031641.D  
 Acq: 23 May 2024 20:52

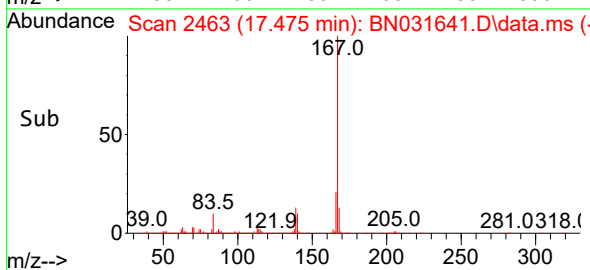
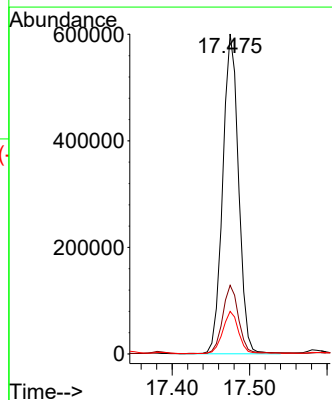
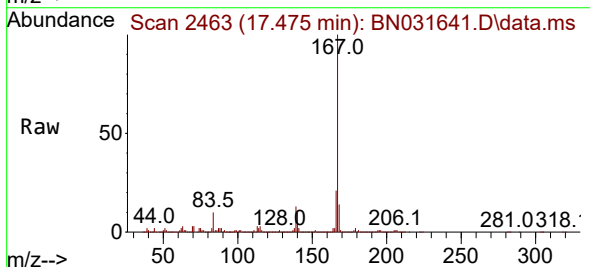
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BH5X4

Tgt Ion:178 Resp: 1803473  
 Ion Ratio Lower Upper  
 178 100  
 179 15.9 11.9 17.9  
 176 18.7 15.4 23.2

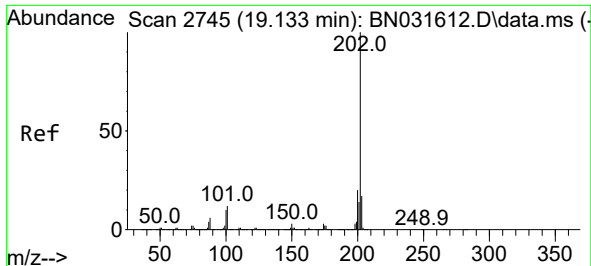


#77  
 Carbazole  
 Concen: 12.967 ng/ul  
 RT: 17.475 min Scan# 2463  
 Delta R.T. 0.000 min  
 Lab File: BN031641.D  
 Acq: 23 May 2024 20:52

Tgt Ion:167 Resp: 853890  
 Ion Ratio Lower Upper  
 167 100  
 166 21.5 16.7 25.1  
 139 13.3 10.5 15.7



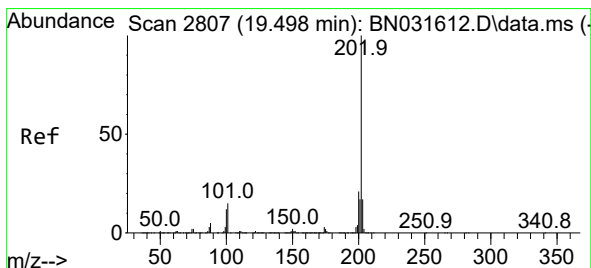
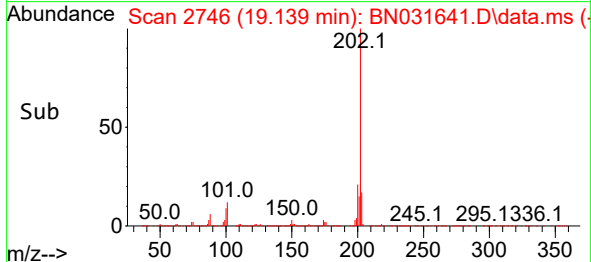
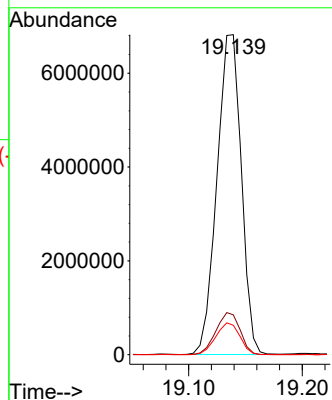
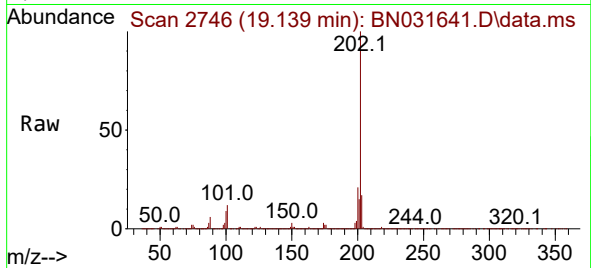




#80  
Fluoranthene  
Concen: 94.904 ng/uI  
RT: 19.139 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: BN031641.D  
Acq: 23 May 2024 20:52

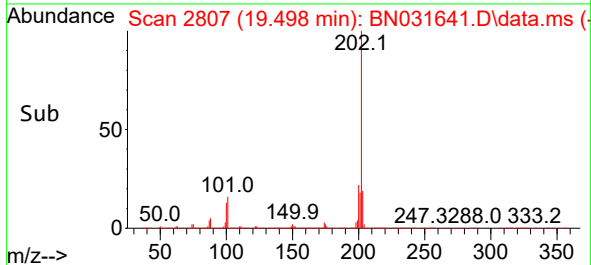
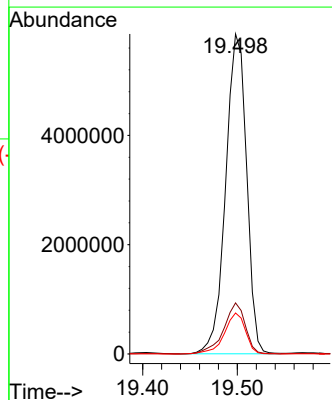
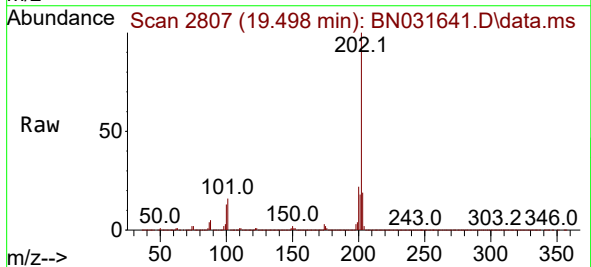
Instrument :  
BNA\_N  
ClientSampleId :  
BH5X4

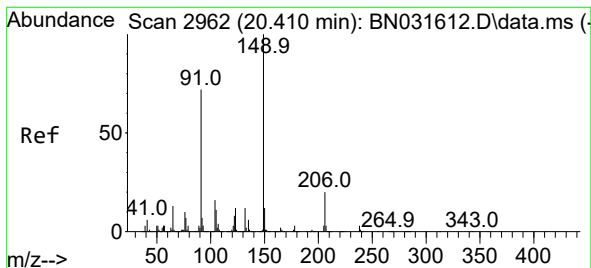
Tgt Ion:202 Resp:10175002  
Ion Ratio Lower Upper  
202 100  
101 12.5 10.1 15.1  
100 9.2 8.0 12.0



#82  
Pyrene  
Concen: 81.761 ng/uI  
RT: 19.498 min Scan# 2807  
Delta R.T. 0.000 min  
Lab File: BN031641.D  
Acq: 23 May 2024 20:52

Tgt Ion:202 Resp: 8989686  
Ion Ratio Lower Upper  
202 100  
101 15.9 11.4 17.2  
100 12.8 9.3 13.9





#83

Butylbenzylphthalate

Concen: 5.042 ng/ul

RT: 20.404 min Scan# 2961

Delta R.T. -0.006 min

Lab File: BN031641.D

Acq: 23 May 2024 20:52

Instrument :

BNA\_N

ClientSampleId :

BH5X4

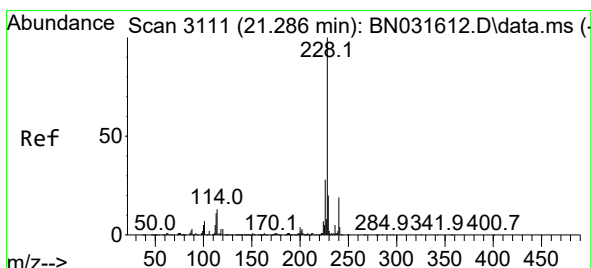
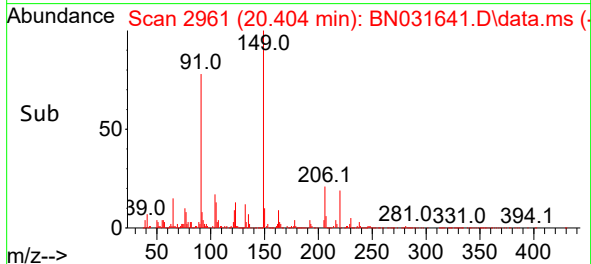
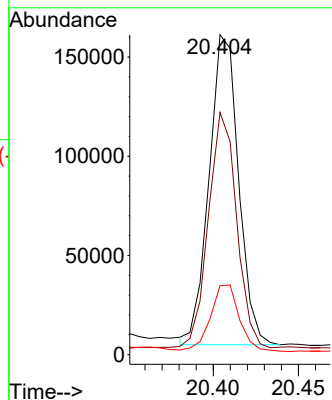
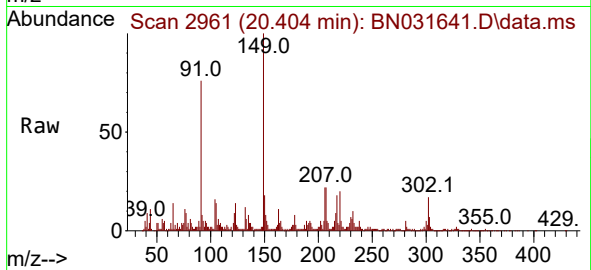
Tgt Ion:149 Resp: 188151

Ion Ratio Lower Upper

149 100

91 75.7 60.8 91.2

206 21.6 15.8 23.8



#85

Benzo(a)anthracene

Concen: 55.311 ng/ul

RT: 21.286 min Scan# 3111

Delta R.T. 0.000 min

Lab File: BN031641.D

Acq: 23 May 2024 20:52

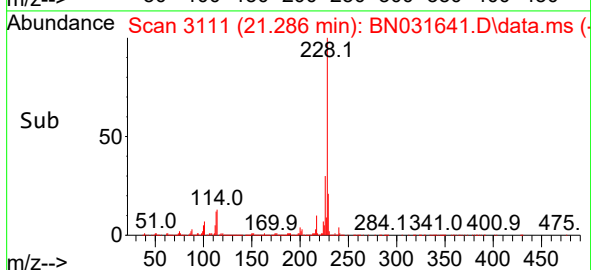
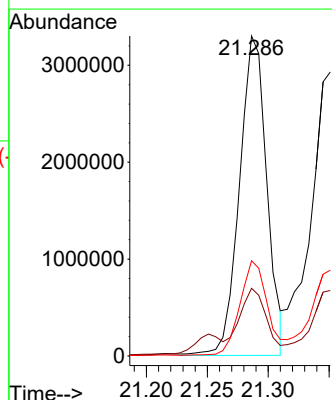
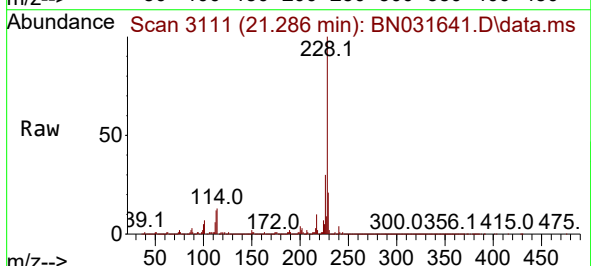
Tgt Ion:228 Resp: 5143335

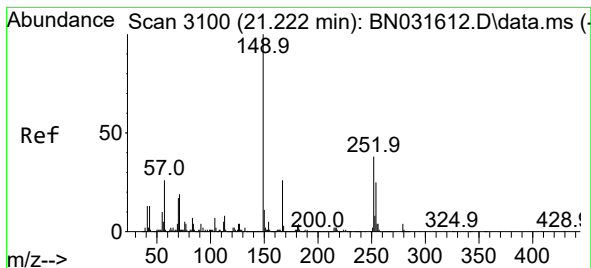
Ion Ratio Lower Upper

228 100

229 21.1 15.7 23.5

226 29.8 21.9 32.9



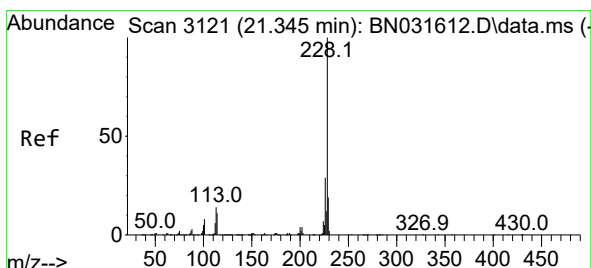
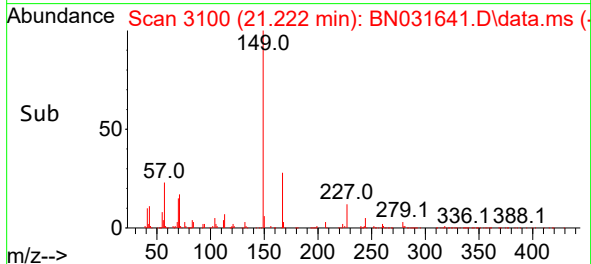
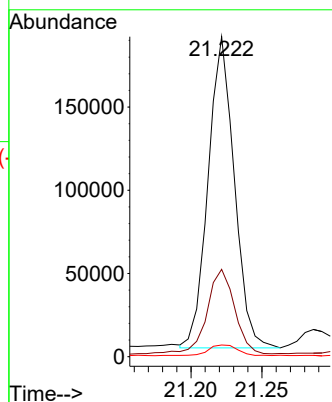
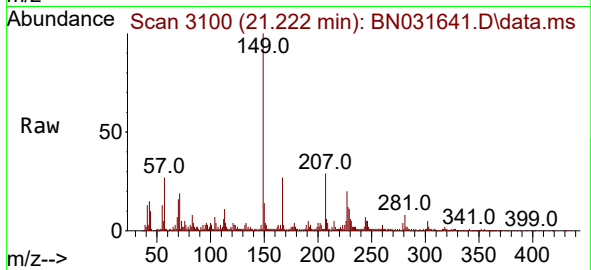


#86  
 Bis(2-ethylhexyl)phthalate  
 Concen: 4.693 ng/ul  
 RT: 21.222 min Scan# 3100  
 Delta R.T. 0.000 min  
 Lab File: BN031641.D  
 Acq: 23 May 2024 20:52

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BH5X4

Tgt Ion:149 Resp: 239788  

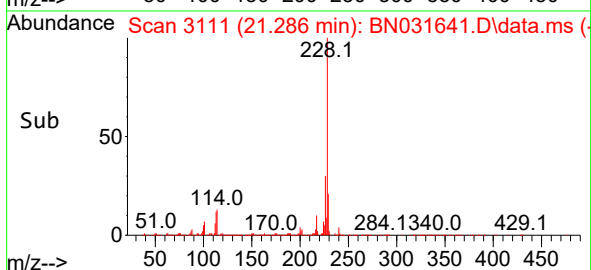
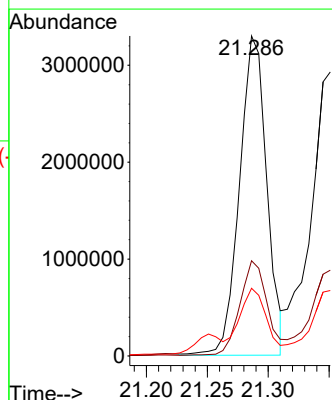
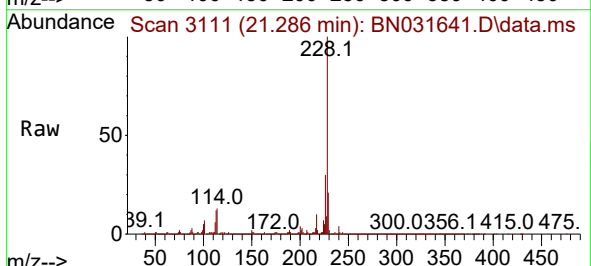
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 27.3  | 21.6  | 32.4  |
| 279 | 3.7   | 2.8   | 4.2   |

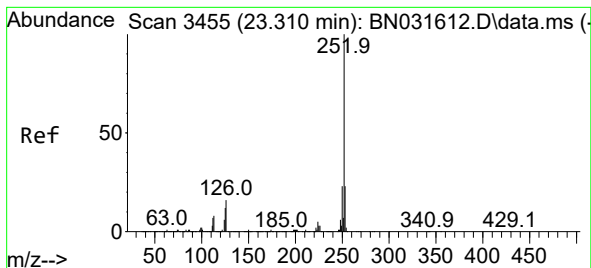


#87  
 Chrysene  
 Concen: 59.835 ng/ul  
 RT: 21.286 min Scan# 3111  
 Delta R.T. -0.059 min  
 Lab File: BN031641.D  
 Acq: 23 May 2024 20:52

Tgt Ion:228 Resp: 5139531  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.8  | 22.9  | 34.3  |
| 229 | 21.1  | 15.2  | 22.8  |





#90

Benzo(b)fluoranthene

Concen: 65.374 ng/ul

RT: 23.321 min Scan# 3455

Delta R.T. 0.012 min

Lab File: BN031641.D

Acq: 23 May 2024 20:52

Instrument :

BNA\_N

ClientSampleId :

BH5X4

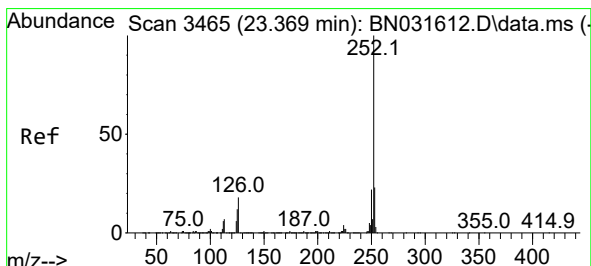
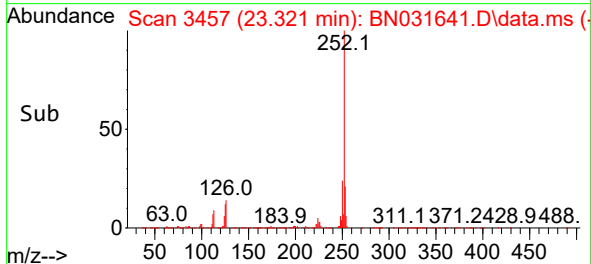
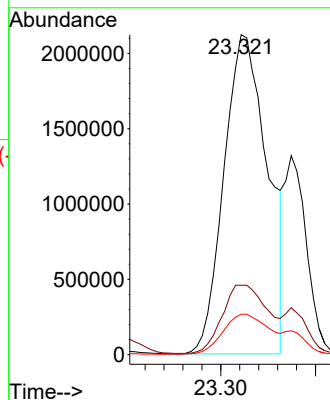
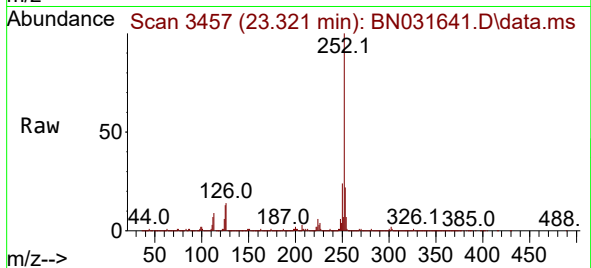
Tgt Ion:252 Resp: 6758930

Ion Ratio Lower Upper

252 100

253 21.7 16.8 25.2

125 12.7 9.3 13.9



#91

Benzo(k)fluoranthene

Concen: 19.740 ng/ul

RT: 23.374 min Scan# 3466

Delta R.T. 0.006 min

Lab File: BN031641.D

Acq: 23 May 2024 20:52

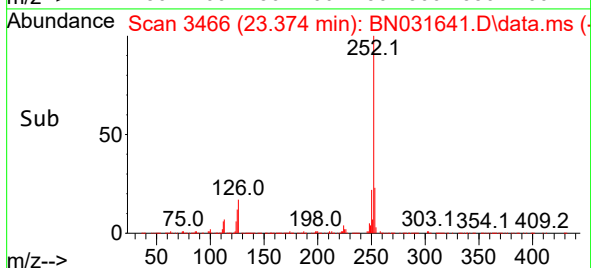
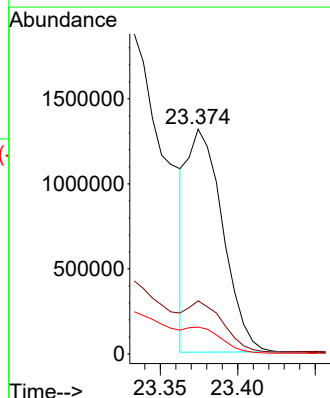
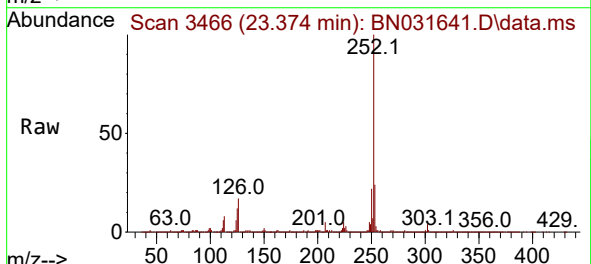
Tgt Ion:252 Resp: 2080432

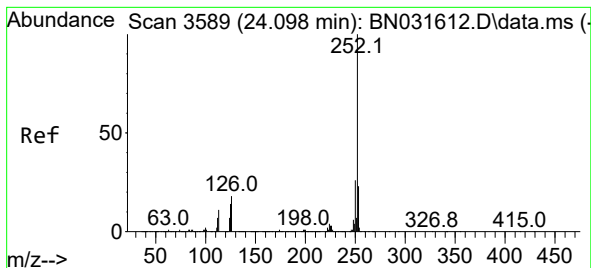
Ion Ratio Lower Upper

252 100

253 23.6 17.4 26.0

125 12.0 9.3 13.9





#93

Benzo(a)pyrene

Concen: 49.367 ng/ul

RT: 24.110 min Scan# 3

Delta R.T. 0.006 min

Lab File: BN031641.D

Acq: 23 May 2024 20:52

Instrument :

BNA\_N

ClientSampleId :

BH5X4

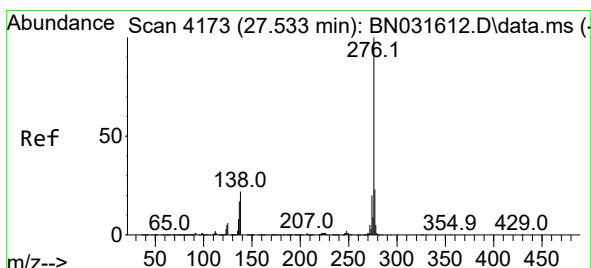
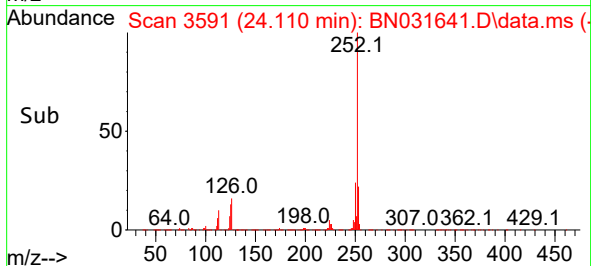
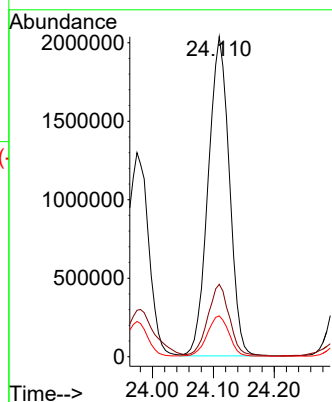
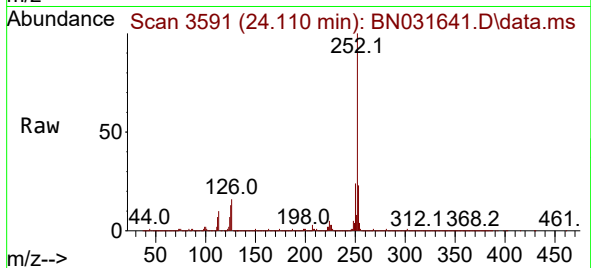
Tgt Ion:252 Resp: 4902785

Ion Ratio Lower Upper

252 100

253 22.6 16.6 24.8

125 12.8 9.8 14.8



#94

Indeno(1,2,3-cd)pyrene

Concen: 27.974 ng/ul

RT: 27.557 min Scan# 4177

Delta R.T. 0.024 min

Lab File: BN031641.D

Acq: 23 May 2024 20:52

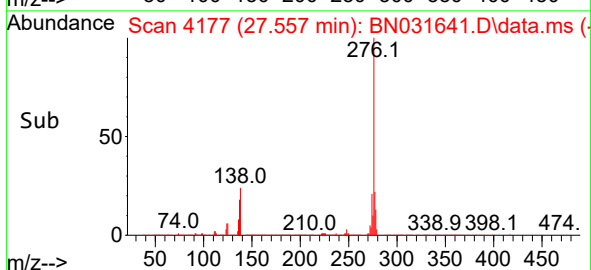
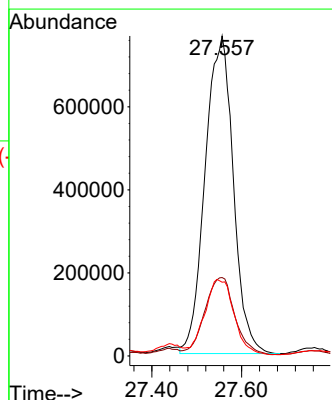
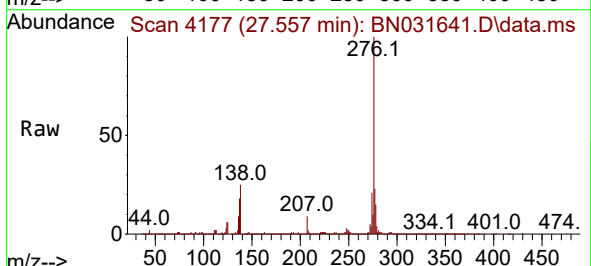
Tgt Ion:276 Resp: 3334376

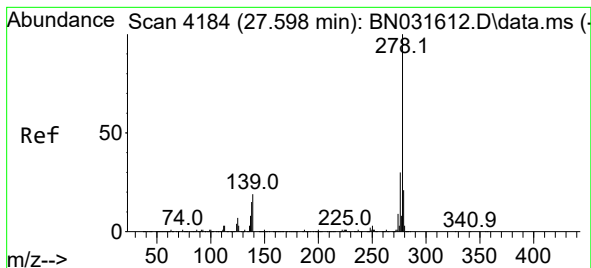
Ion Ratio Lower Upper

276 100

138 24.5 19.8 29.6

277 23.0 18.2 27.4





#95

Dibenzo(a,h)anthracene

Concen: 8.871 ng/ul

RT: 27.586 min Scan# 4184

Delta R.T. -0.006 min

Lab File: BN031641.D

Acq: 23 May 2024 20:52

Instrument :

BNA\_N

ClientSampleId :

BH5X4

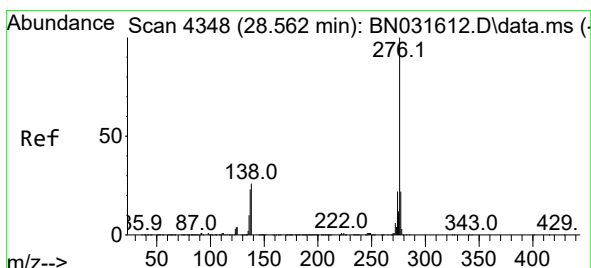
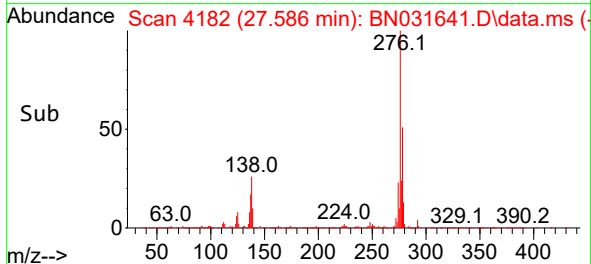
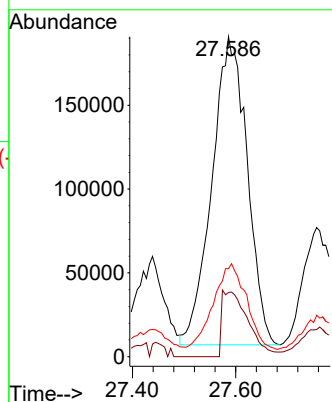
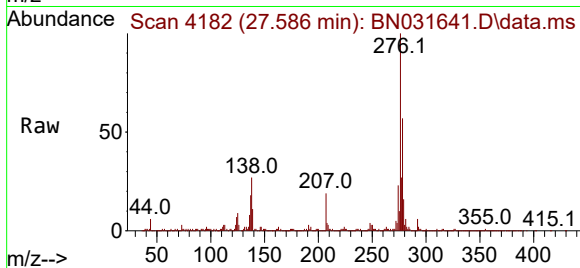
Tgt Ion:278 Resp: 870729

Ion Ratio Lower Upper

278 100

139 20.1 15.2 22.8

279 27.5 18.4 27.6



#96

Benzo(g,h,i)perylene

Concen: 31.801 ng/ul

RT: 28.580 min Scan# 4351

Delta R.T. 0.024 min

Lab File: BN031641.D

Acq: 23 May 2024 20:52

Tgt Ion:276 Resp: 3131672

Ion Ratio Lower Upper

276 100

138 25.4 19.5 29.3

277 24.0 17.6 26.4

