

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082819\  
 Data File : BN007445.D  
 Acq On : 27 Aug 2019 23:05  
 Operator : HP/JU  
 Sample : K4337-15  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Aug 28 00:04:58 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN082819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 27 20:30:31 2019  
 Response via : Initial Calibration

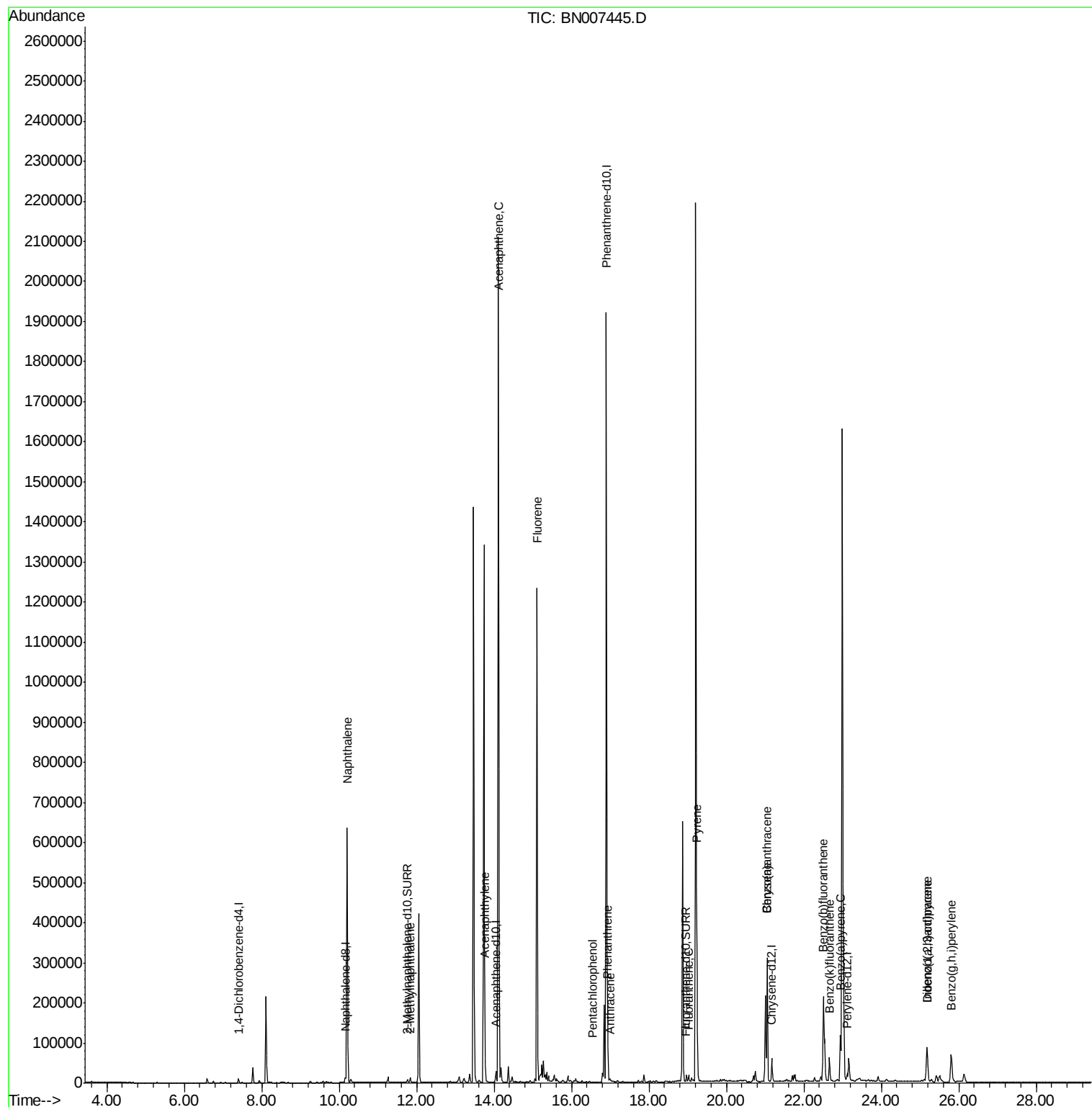
| Internal Standards          | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|---------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.40  | 152  | 5246     | 0.40    | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.15 | 136  | 21672    | 0.40    | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.05 | 164  | 12460    | 0.40    | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.90 | 188  | 2093938  | 0.40    | ng/ul  | 0.09     |
| 16) Chrysene-d12            | 21.15 | 240  | 153      | 0.40    | ng/ul  | 0.13     |
| 20) Perylene-d12            | 23.12 | 264  | 23755    | 0.40    | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |         |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.76 | 152  | 11444    | 0.34    | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.93 | 212  | 323      | 0.00    | ng/ul  | 0.09     |
| Target Compounds            |       |      |          |         | Ovalue |          |
| 3) Naphthalene              | 10.20 | 128  | 823858   | 13.462  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 11.83 | 142  | 8673     | 0.211   | ng/ul  | 100      |
| 7) Acenaphthylene           | 13.76 | 152  | 71310    | 1.029   | ng/ul  | 98       |
| 8) Acenaphthene             | 14.11 | 153  | 1218589  | 24.462  | ng/ul  | 98       |
| 9) Fluorene                 | 15.11 | 166  | 750462   | 13.922  | ng/ul  | 98       |
| 11) Pentachlorophenol       | 16.54 | 266  | 20       | 0.000   | ng/ul# | 19       |
| 12) Phenanthrene            | 16.93 | 178  | 143366   | 0.022   | ng/ul  | 99       |
| 13) Anthracene              | 16.99 | 178  | 3706     | 0.001   | ng/ul# | 1        |
| 15) Fluoranthene            | 19.02 | 202  | 14384    | 0.002   | ng/ul  | 93       |
| 17) Pyrene                  | 19.24 | 202  | 353450   | 472.227 | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.05 | 228  | 288247   | 421.356 | ng/ul  | 96       |
| 19) Chrysene                | 21.05 | 228  | 286193   | 389.646 | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.50 | 252  | 424108   | 4.087   | ng/ul  | 96       |
| 22) Benzo(k)fluoranthene    | 22.66 | 252  | 64110    | 0.591   | ng/ul  | 98       |
| 23) Benzo(a)pyrene          | 22.94 | 252  | 104989   | 1.015   | ng/ul  | 98       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.18 | 276  | 137444   | 1.187   | ng/ul# | 93       |
| 25) Dibenzo(a,h)anthracene  | 25.19 | 278  | 31961    | 0.349   | ng/ul  | 96       |
| 26) Benzo(g,h,i)perylene    | 25.80 | 276  | 134476   | 1.360   | ng/ul  | 99       |

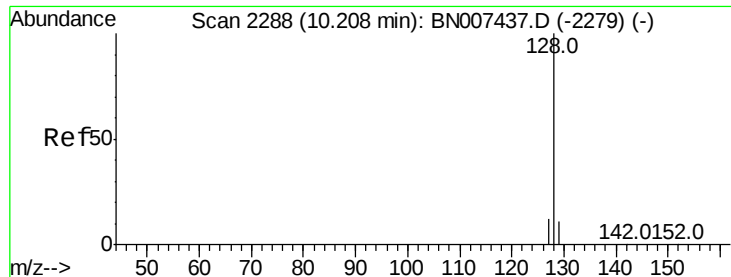
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 12 Sample Multiplier: 1

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QLast Update : Tue Aug 27 20:30:31 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 13.462 ng/ul

RT: 10.20 min Scan# 2287

Delta R.T. -0.01 min

Lab File: BN007445.D

Acq: 27 Aug 2019 23:05

Instrument :

BNA\_N

ClientSampleId :

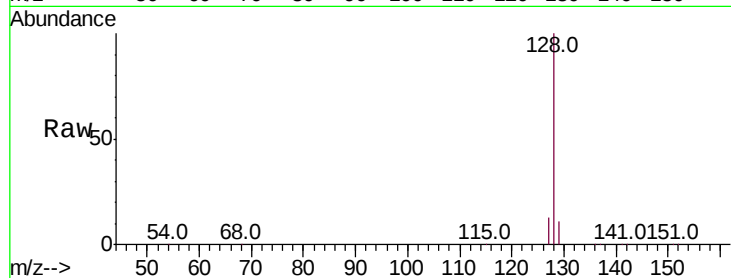
Tot Ion:128 Resp: 823858

Ion Ratio Lower Upper

128 100

129 10.9 9.2 13.8

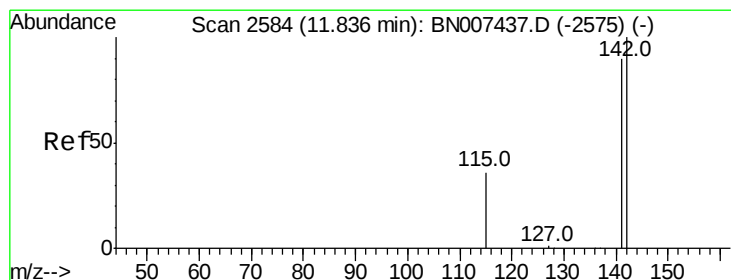
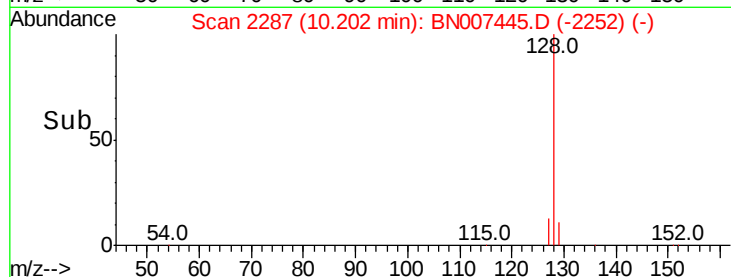
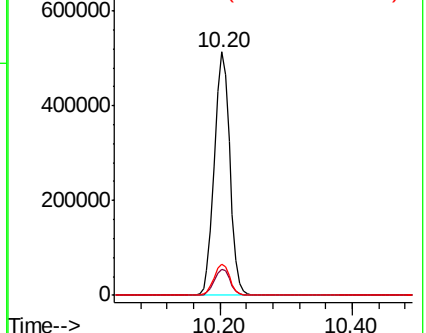
127 13.0 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.211 ng/ul

RT: 11.83 min Scan# 2583

Delta R.T. -0.01 min

Lab File: BN007445.D

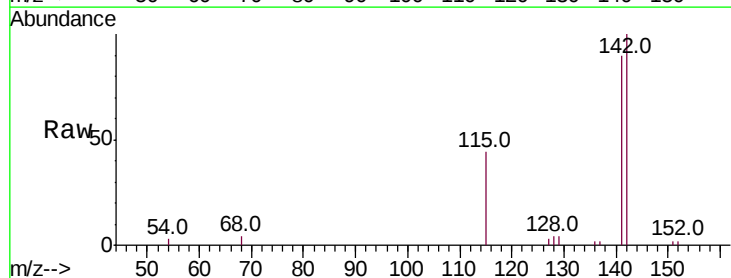
Acq: 27 Aug 2019 23:05

Tgt Ion:142 Resp: 8673

Ion Ratio Lower Upper

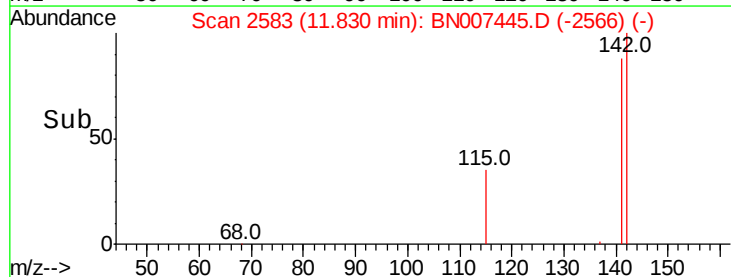
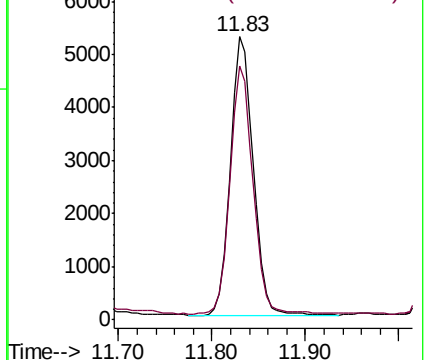
142 100

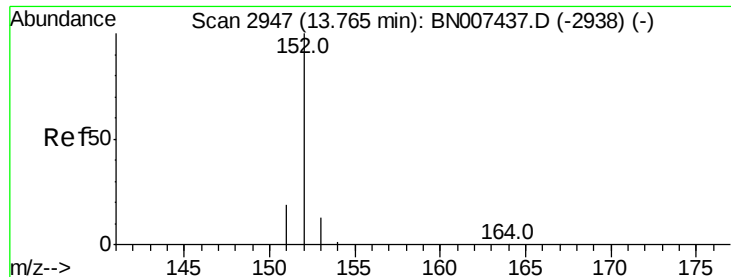
141 89.4 71.7 107.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 1.029 ng/ul

RT: 13.76 min Scan# 2947

Delta R.T. -0.00 min

Lab File: BN007445.D

Acq: 27 Aug 2019 23:05

Instrument :

BNA\_N

ClientSampleId :

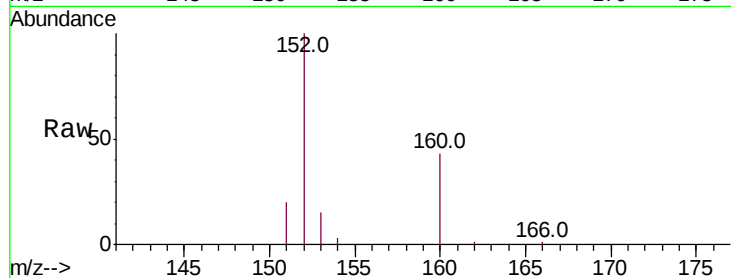
Tot Ion:152 Resp: 71310

Ion Ratio Lower Upper

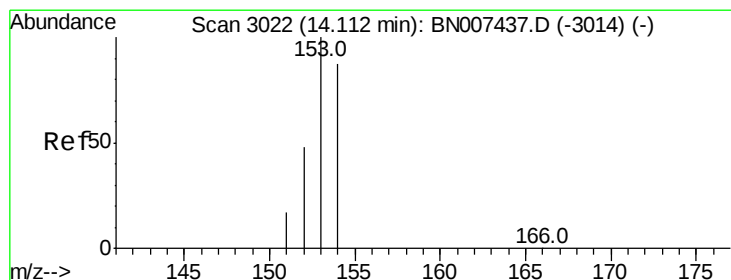
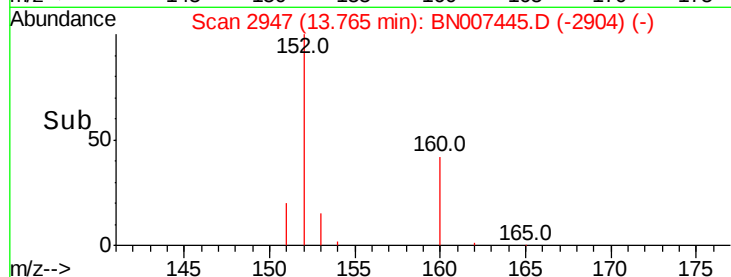
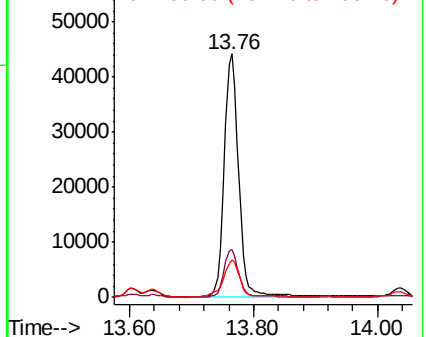
152 100

151 19.9 15.8 23.6

153 15.4 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#8

Acenaphthene

Concen: 24.462 ng/ul

RT: 14.11 min Scan# 3022

Delta R.T. -0.00 min

Lab File: BN007445.D

Acq: 27 Aug 2019 23:05

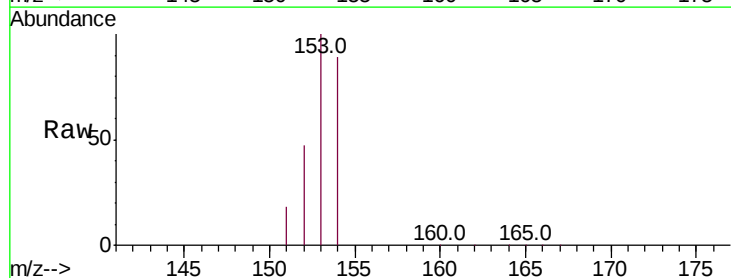
Tgt Ion:153 Resp: 1218589

Ion Ratio Lower Upper

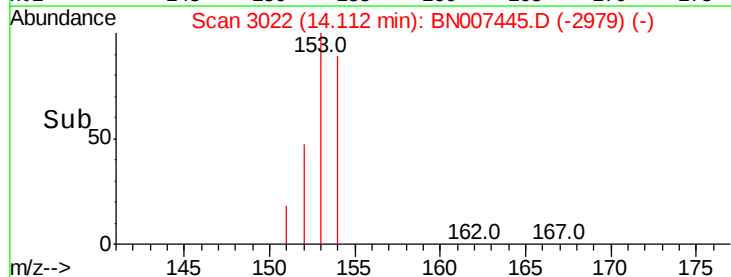
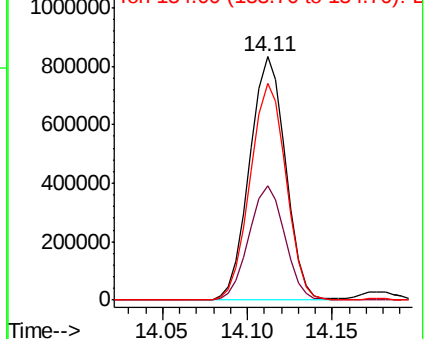
153 100

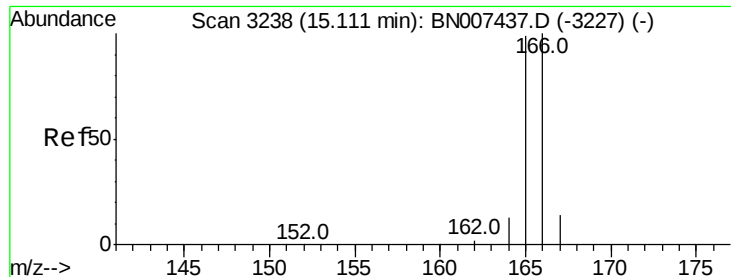
152 46.9 39.1 58.7

154 88.8 69.4 104.2



Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 13.922 ng/ul

RT: 15.11 min Scan# 3237

Delta R.T. -0.00 min

Lab File: BN007445.D

Acq: 27 Aug 2019 23:05

Instrument :

BNA\_N

ClientSampleId :

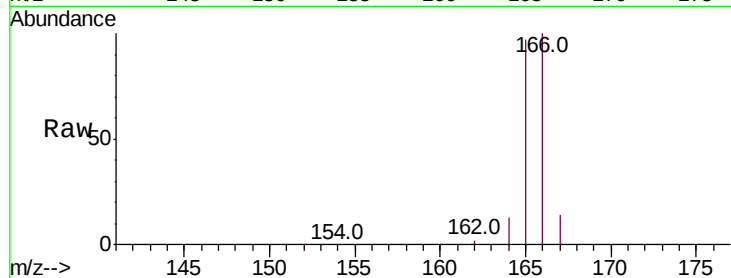
Tot Ion:166 Resp: 750462

Ion Ratio Lower Upper

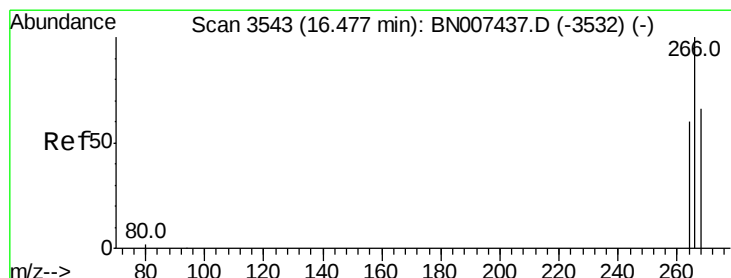
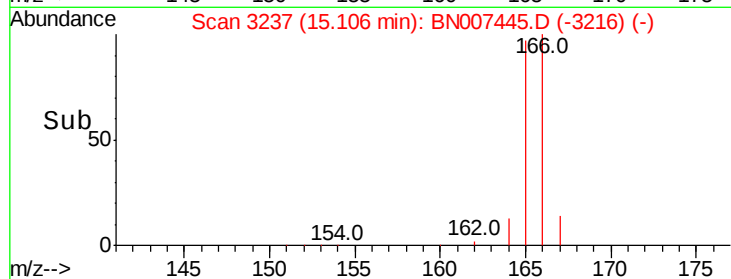
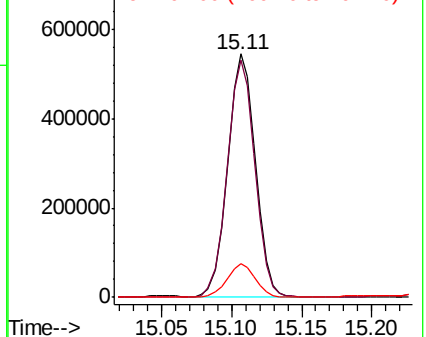
166 100

165 97.3 79.6 119.4

167 13.7 11.7 17.5



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E



#11

Pentachlorophenol

Concen: 0.000 ng/ul

RT: 16.54 min Scan# 3558

Delta R.T. 0.06 min

Lab File: BN007445.D

Acq: 27 Aug 2019 23:05

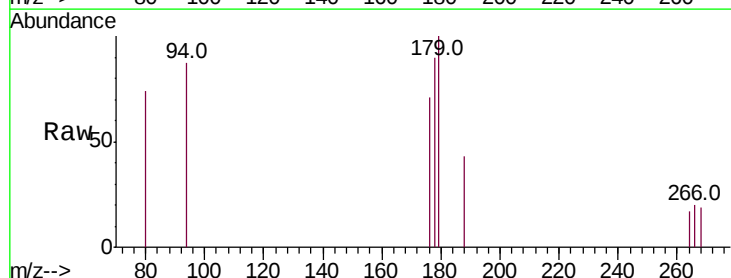
Tgt Ion:266 Resp: 20

Ion Ratio Lower Upper

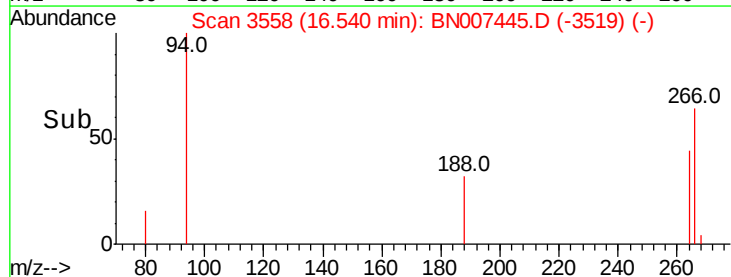
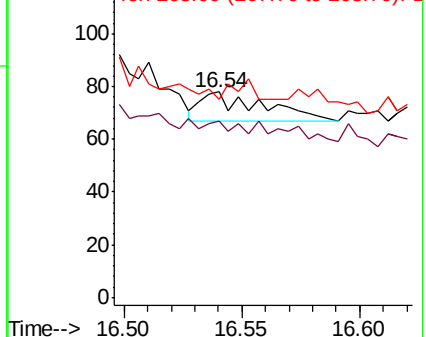
266 100

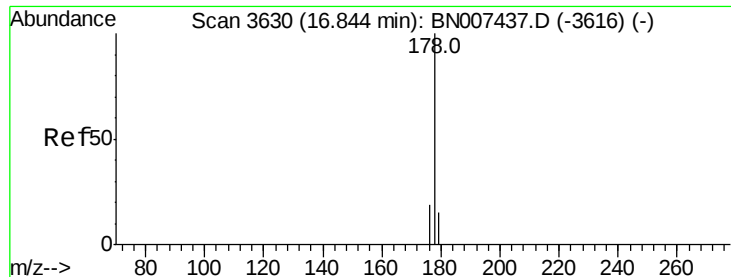
264 0.0 49.0 73.6#

268 0.0 50.2 75.2#



Abundance Ion 266.00 (265.70 to 266.70): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 0.022 ng/ul

RT: 16.93 min Scan# 3651

Delta R.T. 0.09 min

Lab File: BN007445.D

Acq: 27 Aug 2019 23:05

Instrument :

BNA\_N

ClientSampleId :

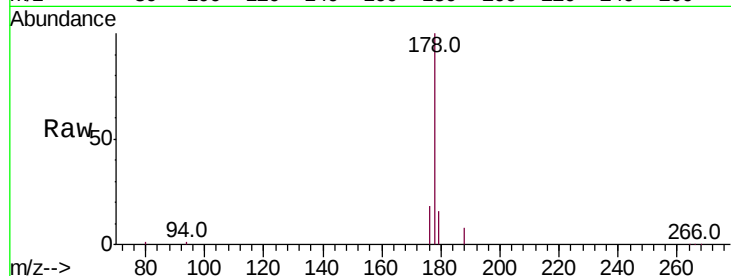
Tot Ion:178 Resp: 143366

Ion Ratio Lower Upper

178 100

179 15.9 12.8 19.2

176 18.2 15.2 22.8



Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

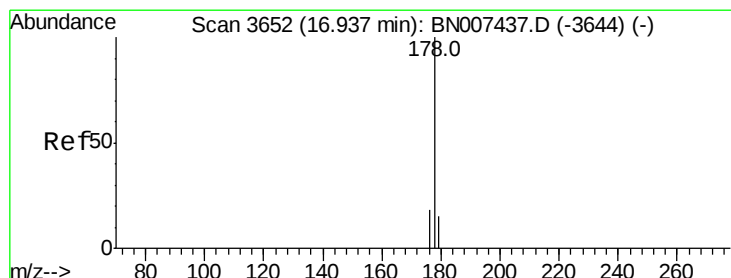
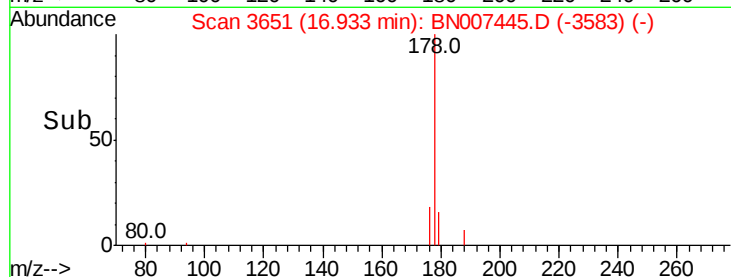
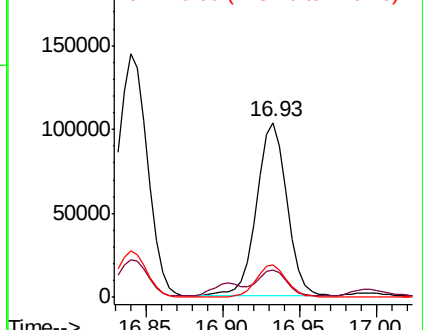
200000

150000

100000

50000

0



#13

Anthracene

Concen: 0.001 ng/ul

RT: 16.99 min Scan# 3665

Delta R.T. 0.05 min

Lab File: BN007445.D

Acq: 27 Aug 2019 23:05

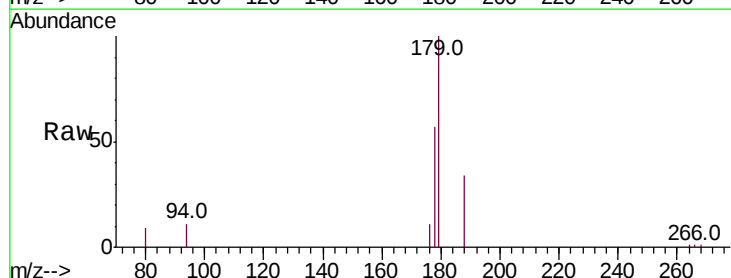
Tgt Ion:178 Resp: 3706

Ion Ratio Lower Upper

178 100

179 175.1 12.8 19.2#

176 19.0 14.6 21.8



Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

120000

100000

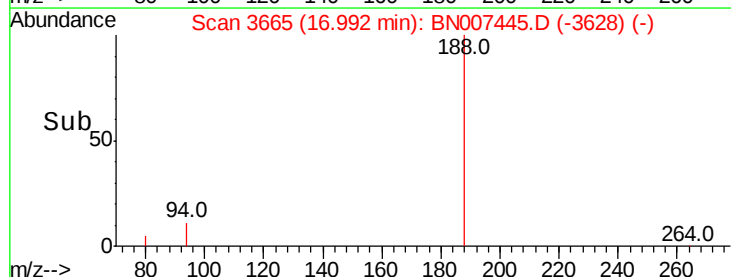
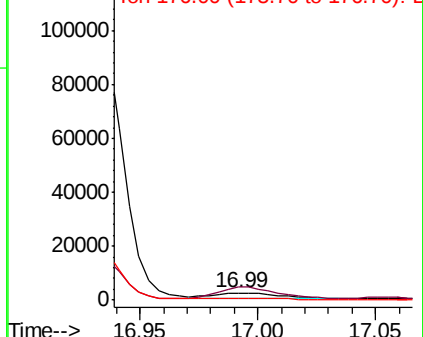
80000

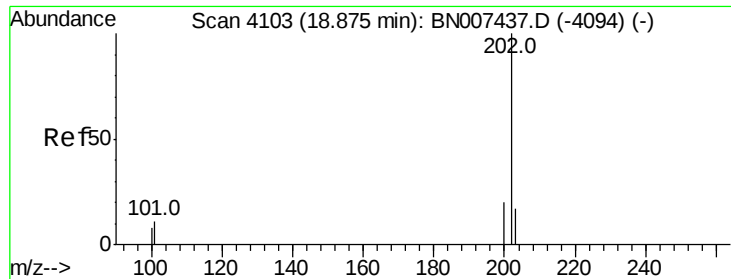
60000

40000

20000

0





#15

Fluoranthene

Concen: 0.002 ng/ul

RT: 19.02 min Scan# 4135

Delta R.T. 0.15 min

Lab File: BN007445.D

Acq: 27 Aug 2019 23:05

Instrument :

BNA\_N

ClientSampleId :

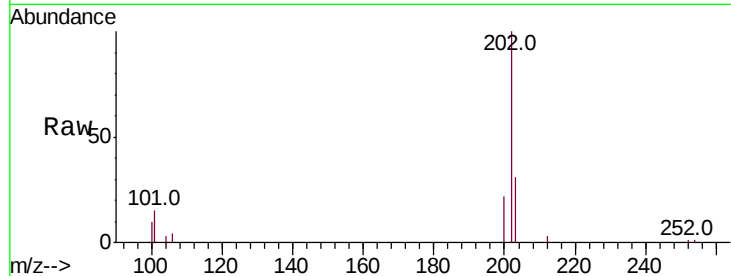
Tot Ion:202 Resp: 14384

Ion Ratio Lower Upper

202 100

101 14.8 0.0 31.3

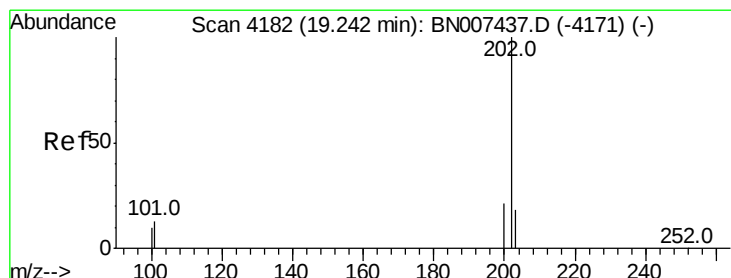
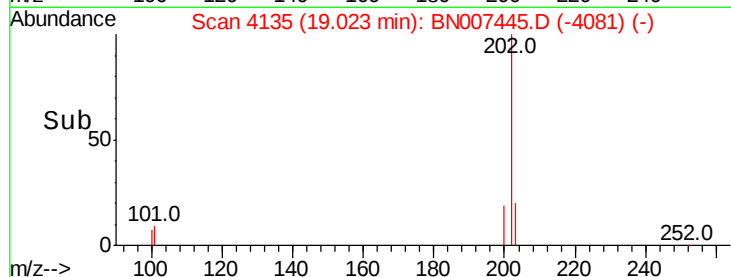
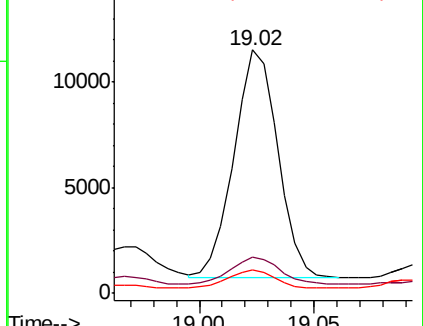
100 9.8 0.0 28.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#17

Pyrene

Concen: 472.227 ng/ul

RT: 19.24 min Scan# 4181

Delta R.T. -0.00 min

Lab File: BN007445.D

Acq: 27 Aug 2019 23:05

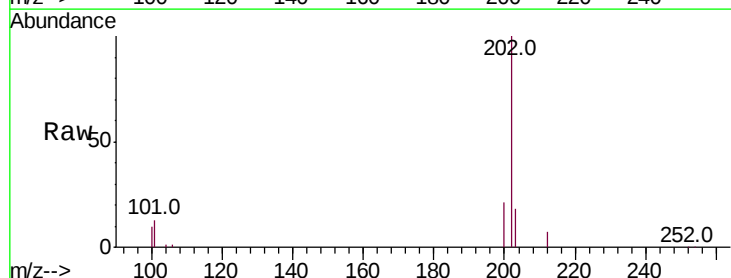
Tgt Ion:202 Resp: 353450

Ion Ratio Lower Upper

202 100

101 12.7 10.7 16.1

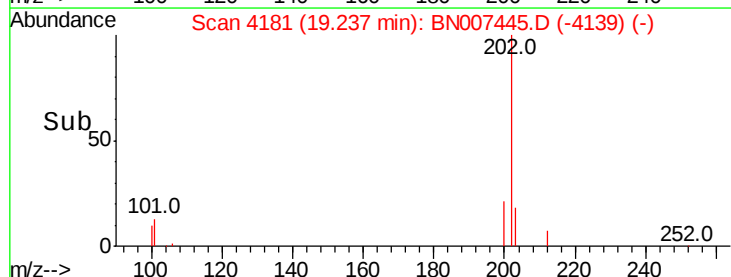
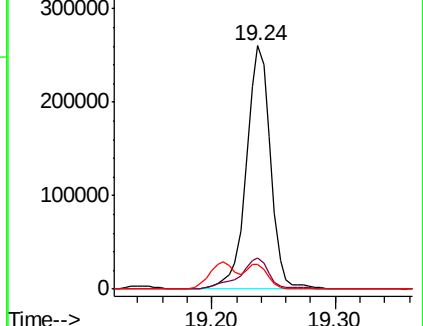
100 10.2 8.6 12.8

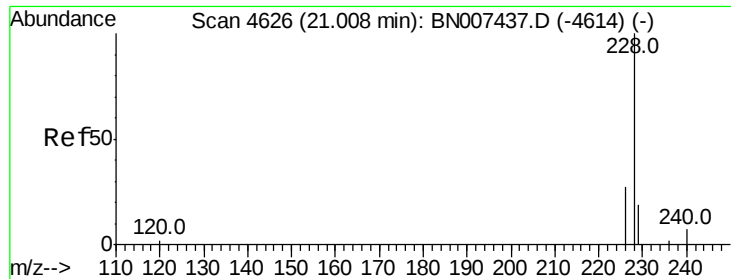


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

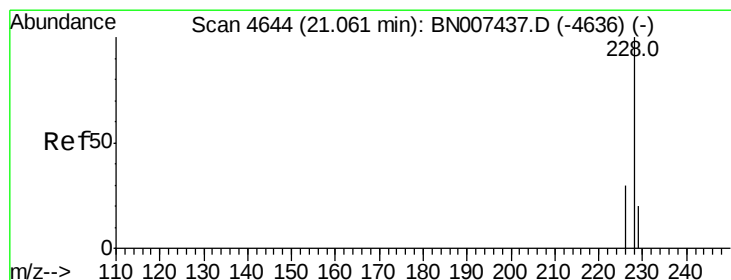
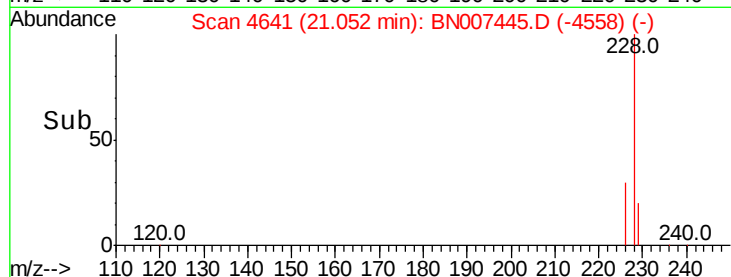
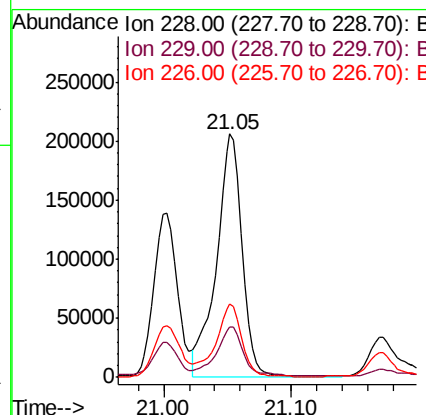
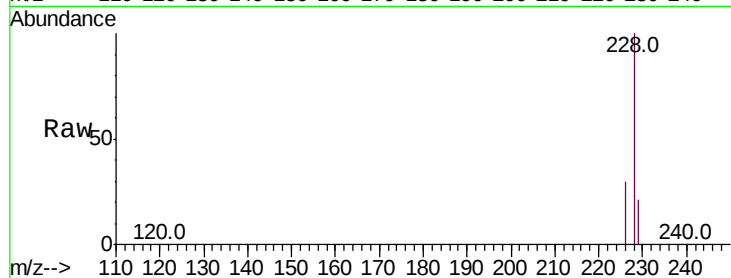




#18  
Benzo(a)anthracene  
Concen: 421.356 ng/ul  
RT: 21.05 min Scan# 4641  
Delta R.T. 0.04 min  
Lab File: BN007445.D  
Acq: 27 Aug 2019 23:05

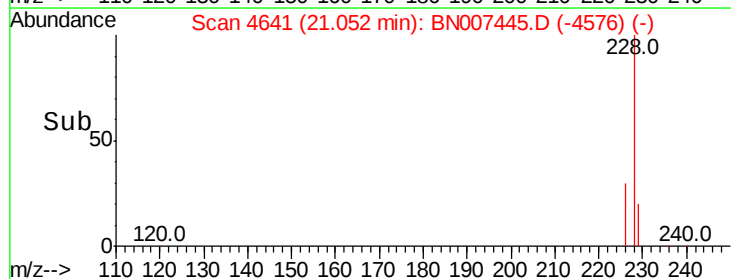
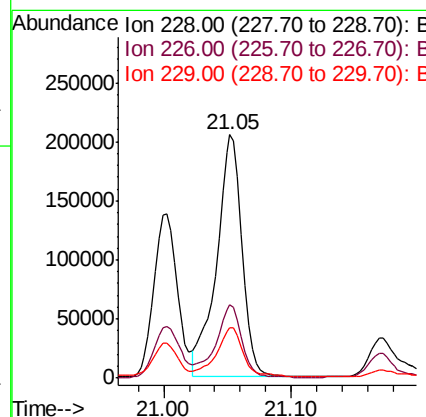
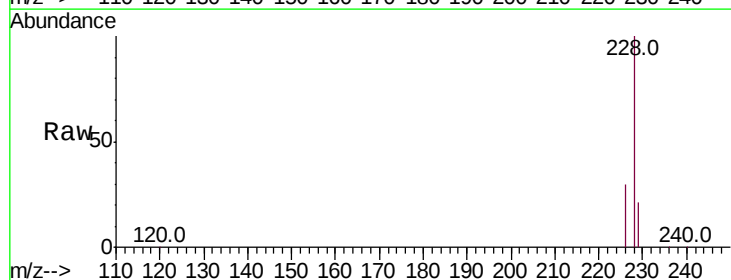
Instrument :  
BNA\_N  
ClientSampleId :

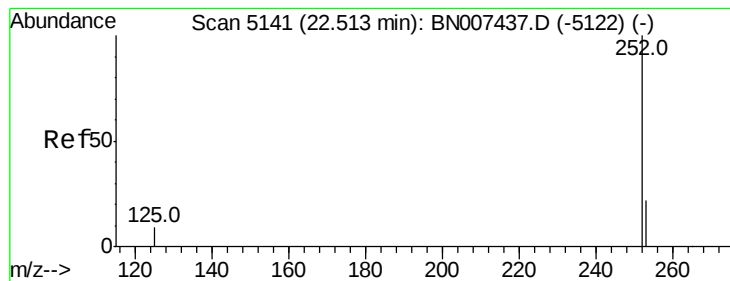
Tot Ion:228 Resp: 288247  
Ion Ratio Lower Upper  
228 100  
229 20.7 15.4 23.2  
226 30.1 22.0 33.0



#19  
Chrysene  
Concen: 389.646 ng/ul  
RT: 21.05 min Scan# 4641  
Delta R.T. -0.01 min  
Lab File: BN007445.D  
Acq: 27 Aug 2019 23:05

Tgt Ion:228 Resp: 286193  
Ion Ratio Lower Upper  
228 100  
226 30.1 24.1 36.1  
229 20.7 16.1 24.1





#21

Benzo(b)fluoranthene

Concen: 4.087 ng/ul

RT: 22.50 min Scan# 5137

Delta R.T. -0.01 min

Lab File: BN007445.D

Acq: 27 Aug 2019 23:05

Instrument :

BNA\_N

ClientSampleId :

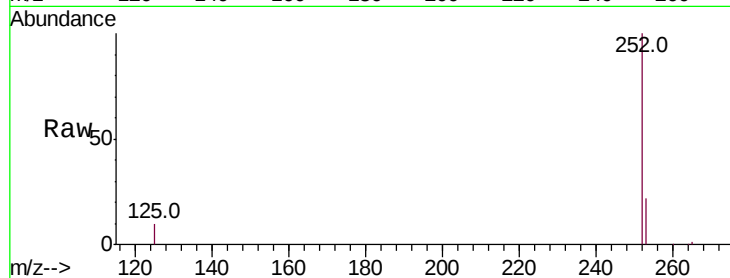
Tot Ion:252 Resp: 424108

Ion Ratio Lower Upper

252 100

253 22.5 0.0 47.0

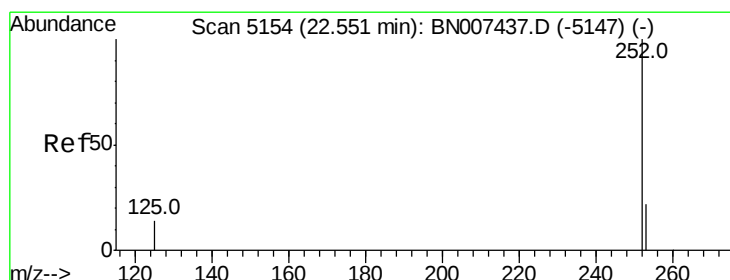
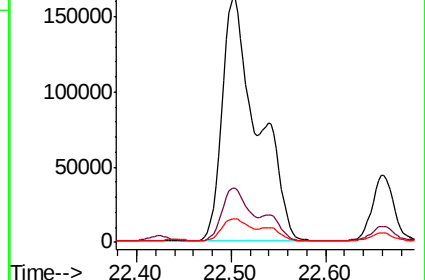
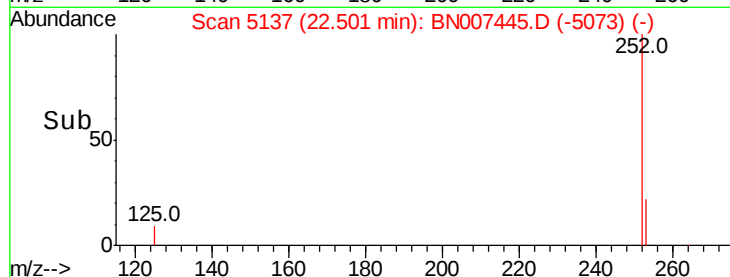
125 9.9 0.0 24.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#22

Benzo(k)fluoranthene

Concen: 0.591 ng/ul

RT: 22.66 min Scan# 5192

Delta R.T. 0.11 min

Lab File: BN007445.D

Acq: 27 Aug 2019 23:05

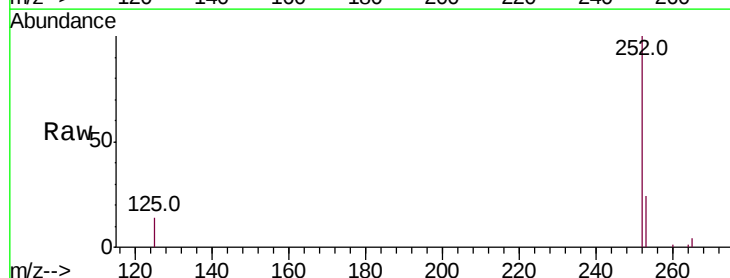
Tgt Ion:252 Resp: 64110

Ion Ratio Lower Upper

252 100

253 24.2 18.7 28.1

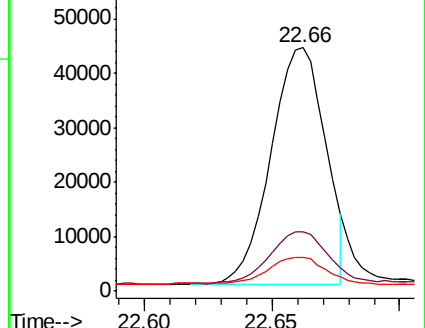
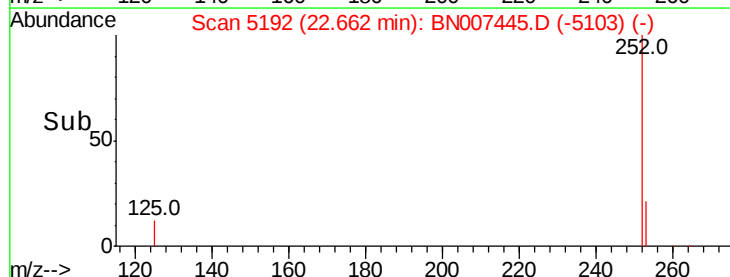
125 14.0 12.4 18.6

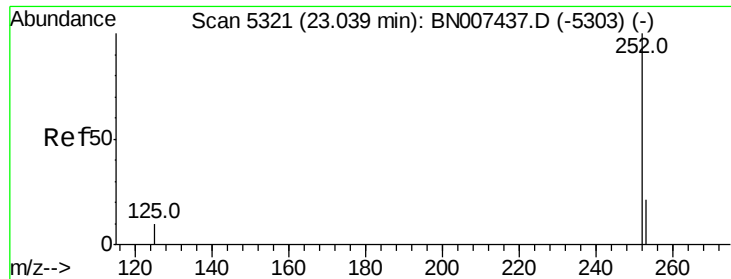


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 1.015 ng/ul

RT: 22.94 min Scan# 5288

Delta R.T. -0.10 min

Lab File: BN007445.D

Acq: 27 Aug 2019 23:05

Instrument :

BNA\_N

ClientSampled :

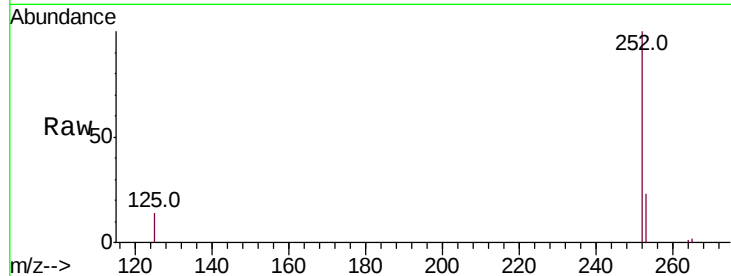
Tot Ion:252 Resp: 104989

Ion Ratio Lower Upper

252 100

253 22.6 19.0 28.6

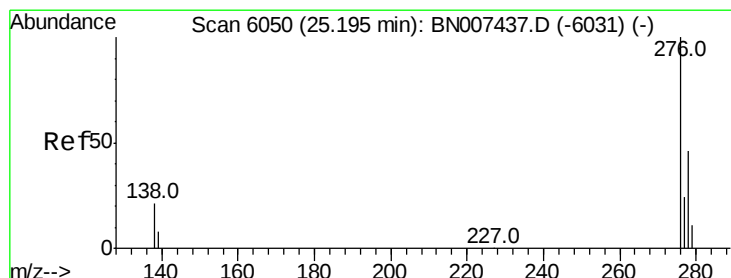
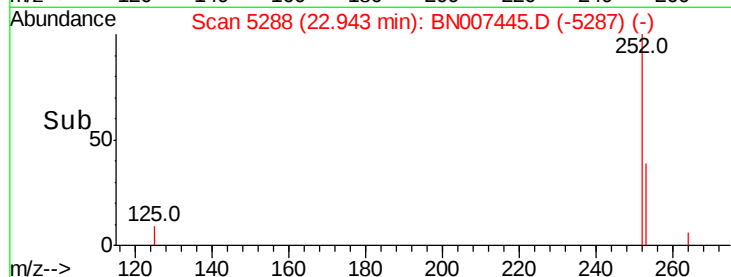
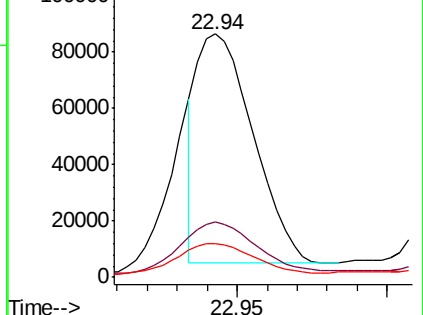
125 13.9 11.2 16.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 1.187 ng/ul

RT: 25.18 min Scan# 6045

Delta R.T. -0.02 min

Lab File: BN007445.D

Acq: 27 Aug 2019 23:05

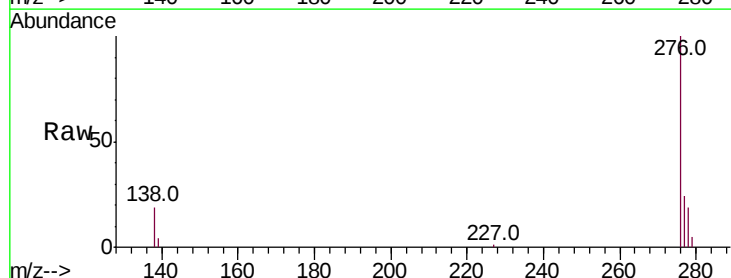
Tgt Ion:276 Resp: 137444

Ion Ratio Lower Upper

276 100

138 21.2 19.7 29.5

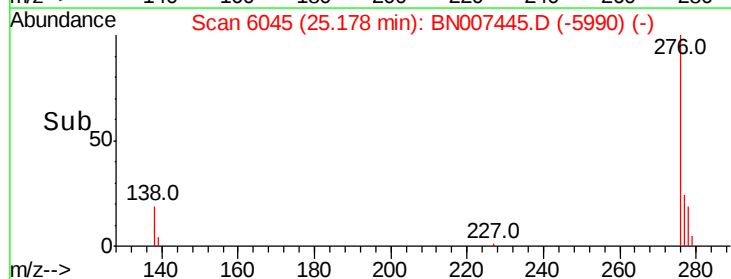
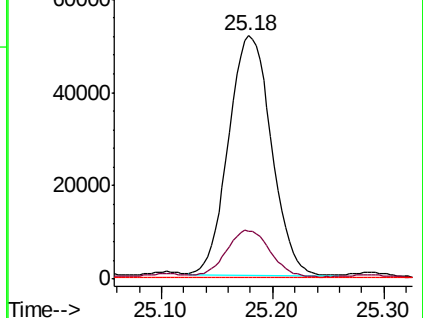
227 5.0 0.1 0.1#

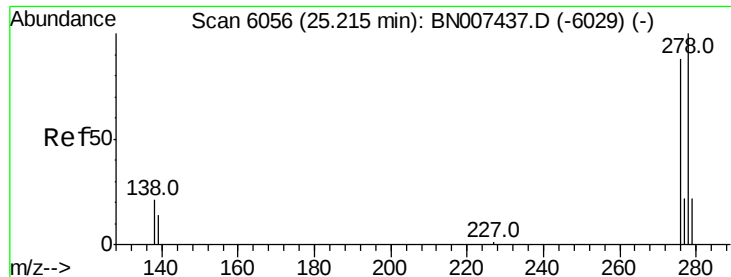


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E



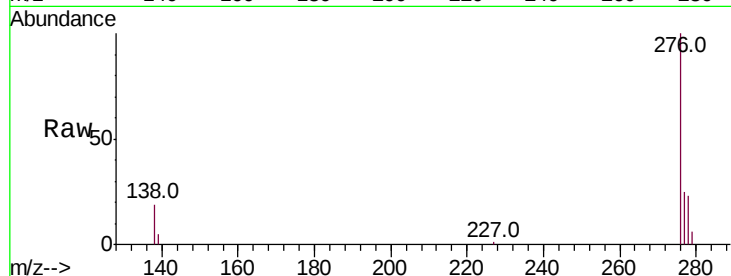


#25  
Dibenzo(a,h)anthracene  
Concen: 0.349 ng/ul  
RT: 25.19 min Scan# 6048  
Delta R.T. -0.03 min  
Lab File: BN007445.D  
Acq: 27 Aug 2019 23:05

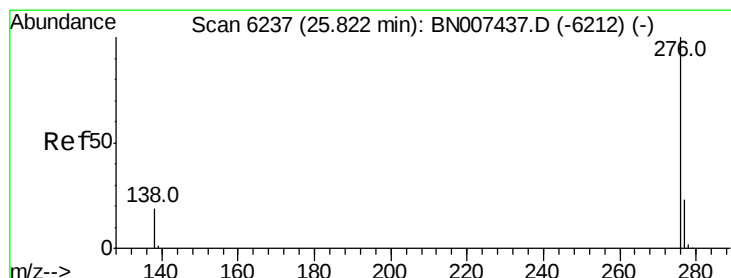
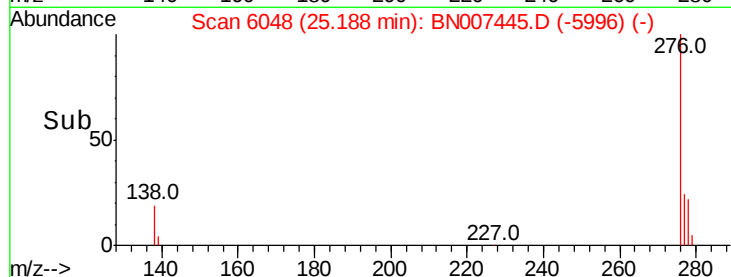
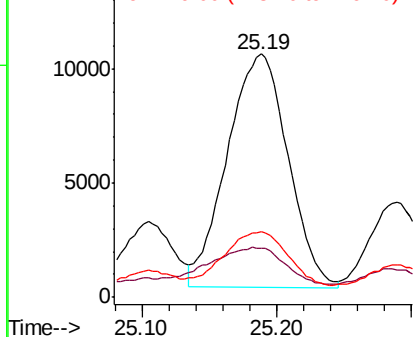
Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:278 Resp: 31961  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 20.2  | 14.6  | 21.8  |
| 279 | 27.0  | 19.8  | 29.8  |



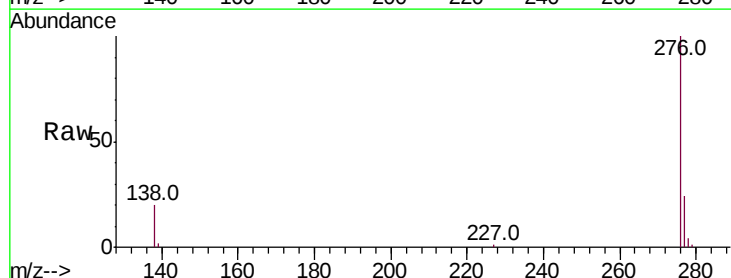
Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E



#26  
Benzo(g,h,i)perylene  
Concen: 1.360 ng/ul  
RT: 25.80 min Scan# 6231  
Delta R.T. -0.02 min  
Lab File: BN007445.D  
Acq: 27 Aug 2019 23:05

Tgt Ion:276 Resp: 134476  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 20.4  | 17.1  | 25.7  |
| 277 | 24.0  | 19.4  | 29.0  |



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

