

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122122\  
 Data File : BN023306.D  
 Acq On : 21 Dec 2022 09:34  
 Operator : CG/JU  
 Sample : SST0.158  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Dec 21 11:39:30 2022  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN122122.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 21 11:38:20 2022  
 Response via : Initial Calibration

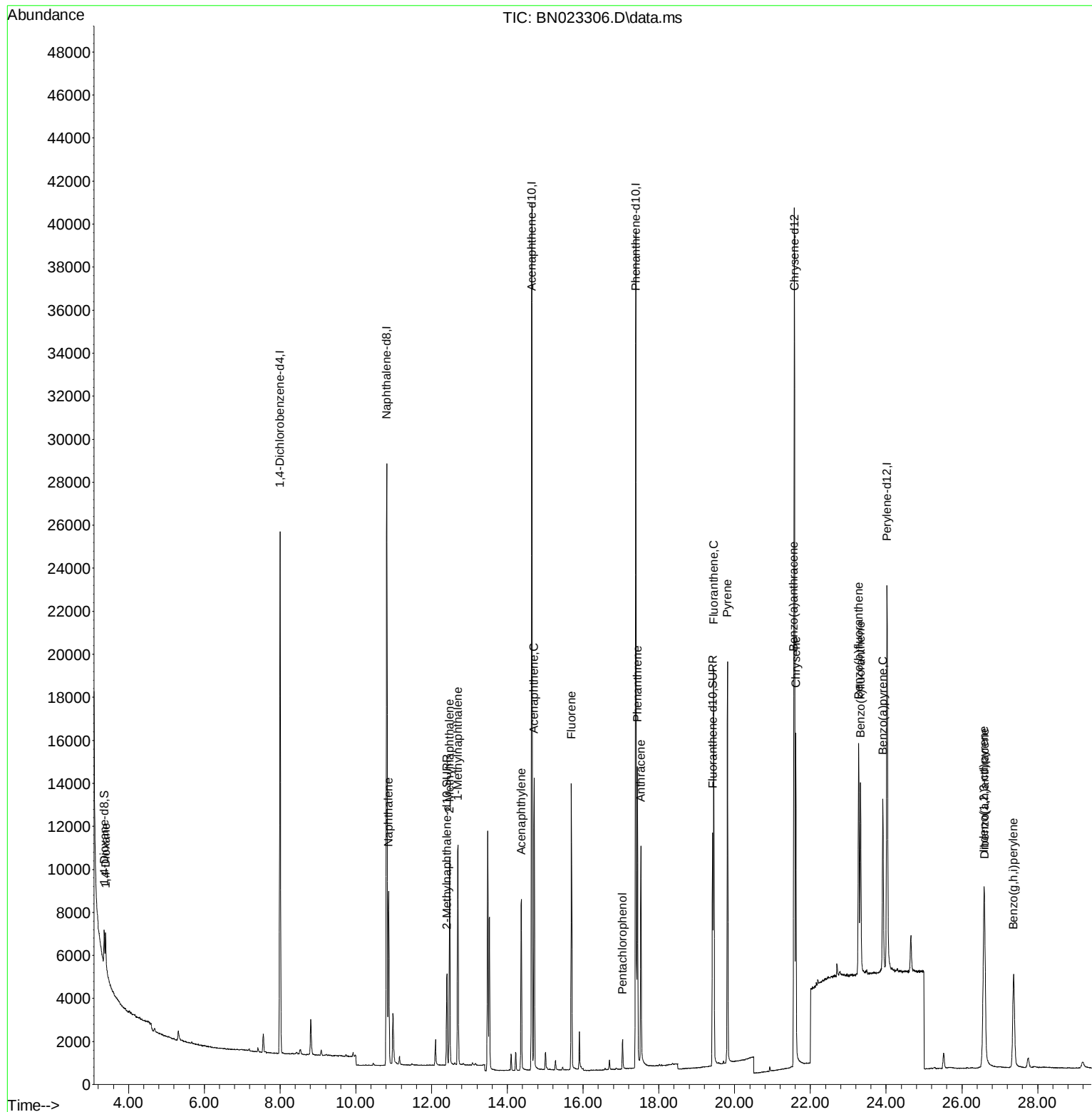
| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.998  | 152  | 12225    | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.815 | 136  | 36653    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.645 | 164  | 21040    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.390 | 188  | 44285    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.578 | 240  | 33318    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 24.025 | 264  | 25751    | 0.400 | ng/ul  | # 0.00   |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.357  | 96   | 1419     | 0.097 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.405 | 152  | 5528     | 0.099 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.420 | 212  | 11709    | 0.095 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.391  | 88   | 1851     | 0.121 | ng/ul# | 54       |
| 5) Naphthalene              | 10.865 | 128  | 10706    | 0.096 | ng/ul  | 99       |
| 7) 2-Methylnaphthalene      | 12.476 | 142  | 6716     | 0.097 | ng/ul  | 99       |
| 8) 1-Methylnaphthalene      | 12.696 | 142  | 6967     | 0.098 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.368 | 152  | 9072     | 0.087 | ng/ul  | 99       |
| 11) Acenaphthene            | 14.705 | 153  | 7677     | 0.093 | ng/ul  | 99       |
| 12) Fluorene                | 15.691 | 166  | 8473     | 0.091 | ng/ul  | 99       |
| 14) Pentachlorophenol       | 17.040 | 266  | 973      | 0.105 | ng/ul  | 99       |
| 15) Phenanthrene            | 17.432 | 178  | 14315    | 0.094 | ng/ul  | 99       |
| 16) Anthracene              | 17.525 | 178  | 11391    | 0.087 | ng/ul  | 99       |
| 19) Fluoranthene            | 19.448 | 202  | 15526    | 0.090 | ng/ul  | 99       |
| 20) Pyrene                  | 19.811 | 202  | 16028    | 0.095 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.560 | 228  | 12571    | 0.099 | ng/ul  | 99       |
| 22) Chrysene                | 21.616 | 228  | 13207    | 0.095 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 23.273 | 252  | 13139    | 0.101 | ng/ul  | 81       |
| 25) Benzo(k)fluoranthene    | 23.323 | 252  | 12180    | 0.088 | ng/ul# | 90       |
| 26) Benzo(a)pyrene          | 23.913 | 252  | 10544    | 0.106 | ng/ul# | 67       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.580 | 276  | 12698    | 0.108 | ng/ul# | 93       |
| 28) Dibenzo(a,h)anthracene  | 26.597 | 278  | 9666     | 0.103 | ng/ul  | 93       |
| 29) Benzo(g,h,i)perylene    | 27.365 | 276  | 10197    | 0.099 | ng/ul  | 95       |
| -----                       |        |      |          |       |        |          |

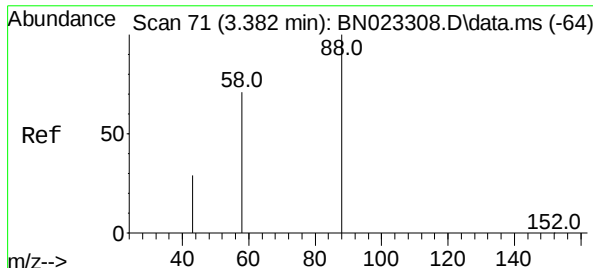
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN122122\  
Data File : BN023306.D  
Acq On : 21 Dec 2022 09:34  
Operator : CG/JU  
Sample : SST0.158  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :

Quant Time: Dec 21 11:39:30 2022  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN122122.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 21 11:38:20 2022  
Response via : Initial Calibration

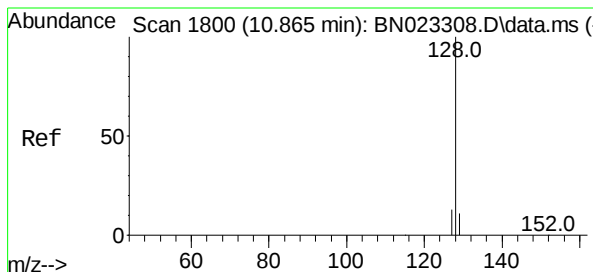
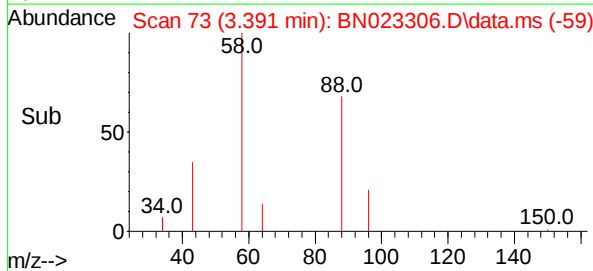
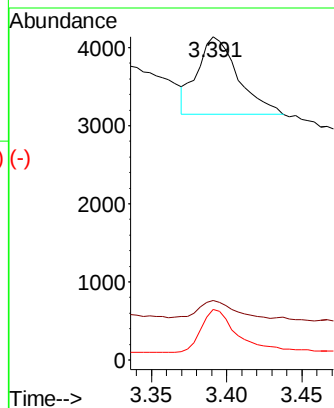
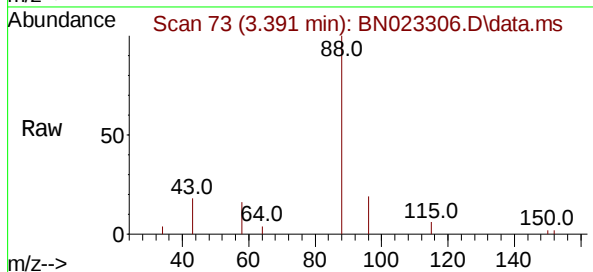




1,4-Dioxane  
 Concen: 0.121 ng/ul  
 RT: 3.391 min Scan#  
 Delta R.T. 0.009 min  
 Lab File: BN023306.D  
 Acq: 21 Dec 2022 09:34

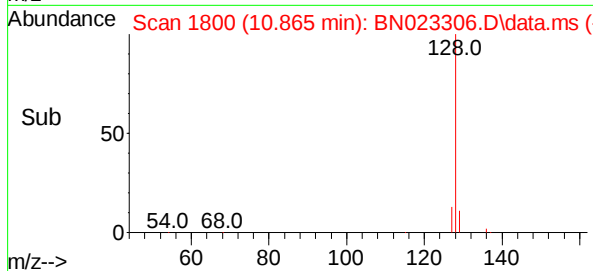
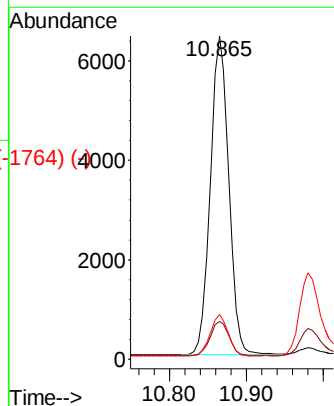
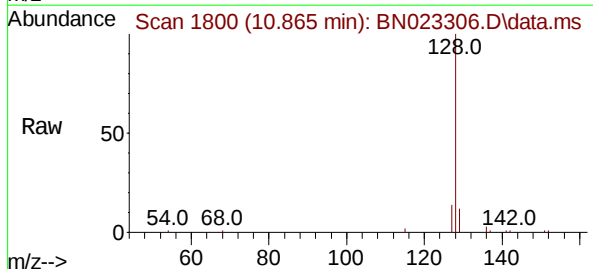
Instrument :  
 BNA\_N  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 1851  |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 18.4  | 28.4  | 42.6# |
| 58       | 15.7  | 45.6  | 68.4# |

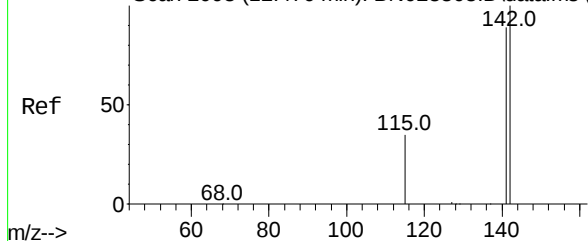


Naphthalene  
 Concen: 0.096 ng/ul  
 RT: 10.865 min Scan# 1800  
 Delta R.T. 0.000 min  
 Lab File: BN023306.D  
 Acq: 21 Dec 2022 09:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 10706 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.7  | 9.0   | 13.4  |
| 127      | 13.8  | 10.7  | 16.1  |



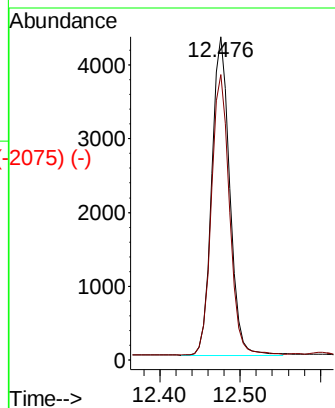
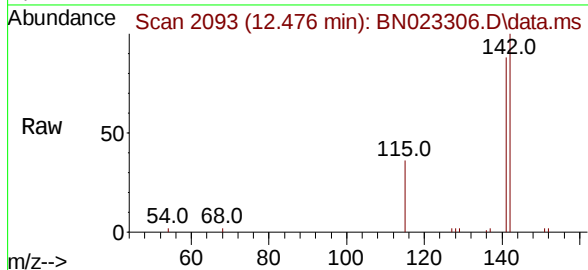
Abundance Scan 2093 (12.476 min): BN023308.D\data.ms (-2075) (-)



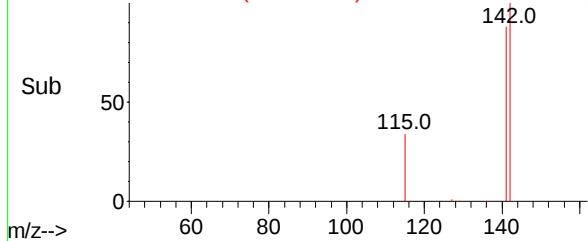
2-Methylnaphthalene  
Concen: 0.097 ng/ul  
RT: 12.476 min Scan# 2093  
Delta R.T. 0.000 min  
Lab File: BN023306.D  
Acq: 21 Dec 2022 09:34

Instrument :  
BNA\_N  
ClientSampleId :

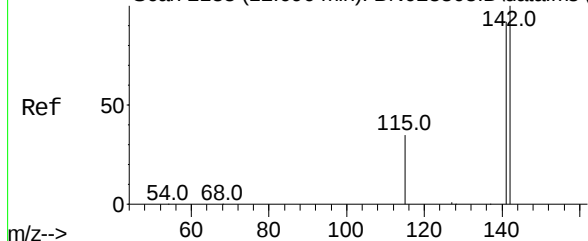
Tgt Ion:142 Resp: 6716  
Ion Ratio Lower Upper  
142 100  
141 88.6 71.4 107.2



Abundance Scan 2093 (12.476 min): BN023306.D\data.ms (-2075) (-)

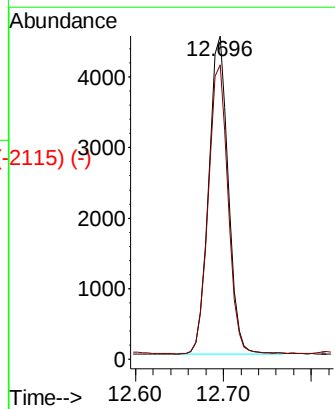
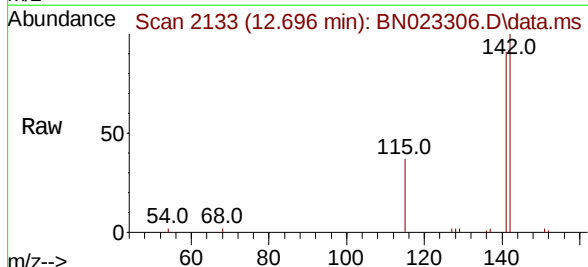


Abundance Scan 2133 (12.696 min): BN023308.D\data.ms (-2112) (-)

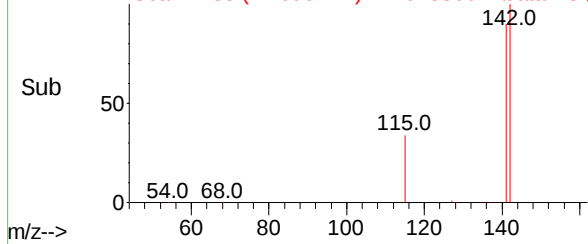


1-Methylnaphthalene  
Concen: 0.098 ng/ul  
RT: 12.696 min Scan# 2133  
Delta R.T. 0.000 min  
Lab File: BN023306.D  
Acq: 21 Dec 2022 09:34

Tgt Ion:142 Resp: 6967  
Ion Ratio Lower Upper  
142 100  
141 91.8 74.0 111.0



Abundance Scan 2133 (12.696 min): BN023306.D\data.ms (-2115) (-)



Abundance Scan 2470 (14.368 min): BN023308.D\data.ms (-2470) (-)

Acenaphthylene

Concen: 0.087 ng/ul

RT: 14.368 min Scan# 2470

Delta R.T. -0.001 min

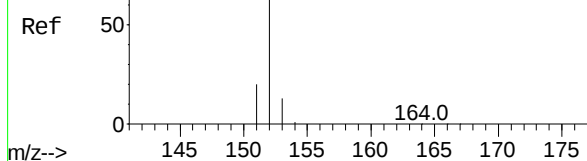
Lab File: BN023306.D

Acq: 21 Dec 2022 09:34

Instrument :

BNA\_N

ClientSampleId :



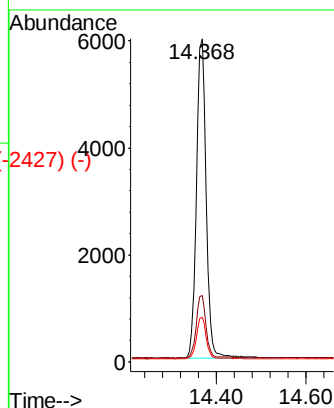
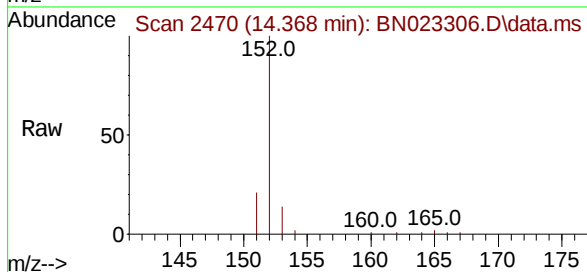
Tgt Ion:152 Resp: 9072

Ion Ratio Lower Upper

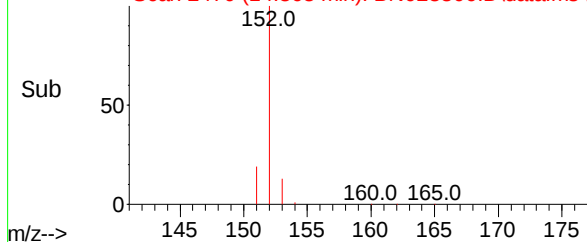
152 100

151 20.6 16.1 24.1

153 13.8 10.9 16.3



Abundance Scan 2470 (14.368 min): BN023306.D\data.ms (-2427) (-)



Abundance Scan 2543 (14.706 min): BN023308.D\data.ms (-2543) (-)

Acenaphthene

Concen: 0.093 ng/ul

RT: 14.705 min Scan# 2543

Delta R.T. -0.001 min

Lab File: BN023306.D

Acq: 21 Dec 2022 09:34

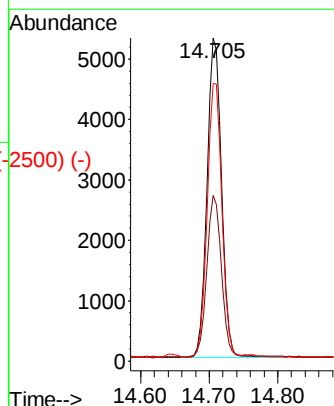
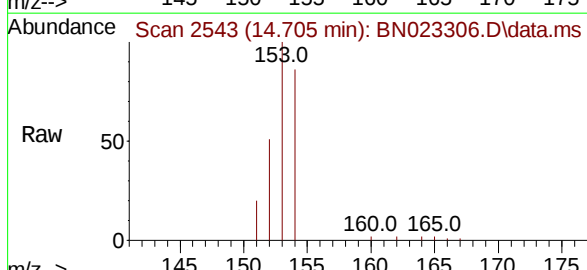
Tgt Ion:153 Resp: 7677

Ion Ratio Lower Upper

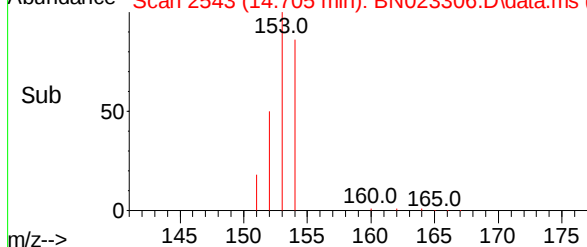
153 100

152 51.4 41.0 61.4

154 85.8 69.5 104.3



Abundance Scan 2543 (14.705 min): BN023306.D\data.ms (-2500) (-)



Abundance Scan 2756 (15.692 min): BN023308.D\data.ms (-2732) (-)

Fluorene

Concen: 0.091 ng/ul

RT: 15.691 min Scan# 3069

Delta R.T. -0.001 min

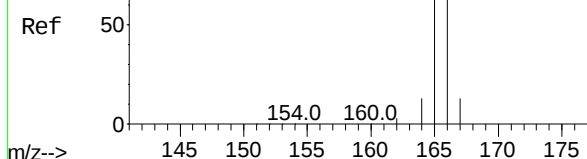
Lab File: BN023306.D

Acq: 21 Dec 2022 09:34

Instrument :

BNA\_N

ClientSampleId :



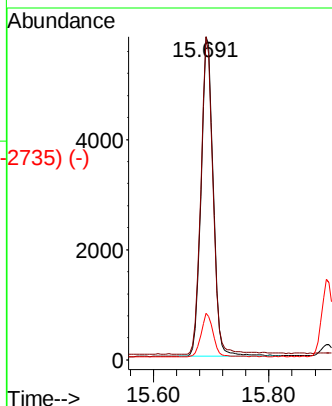
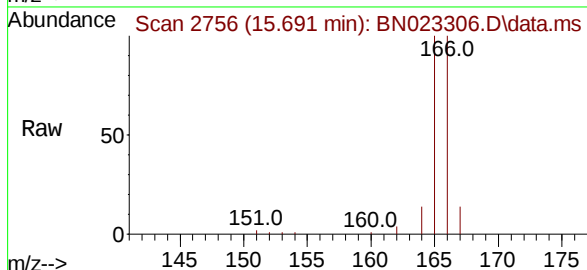
Tgt Ion:166 Resp: 8473

Ion Ratio Lower Upper

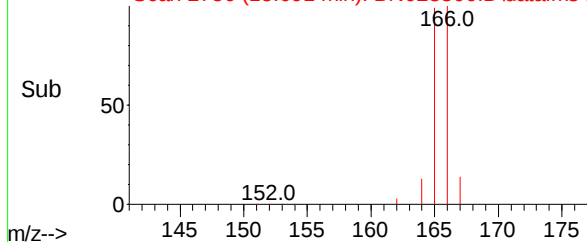
166 100

165 100.0 79.1 118.7

167 14.5 11.0 16.4



Abundance Scan 2756 (15.691 min): BN023306.D\data.ms (-2735) (-)



Abundance Scan 3069 (17.041 min): BN023308.D\data.ms (-3039) (-)

Pentachlorophenol

Concen: 0.105 ng/ul

RT: 17.040 min Scan# 3069

Delta R.T. -0.001 min

Lab File: BN023306.D

Acq: 21 Dec 2022 09:34

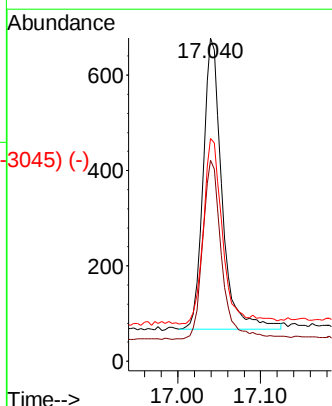
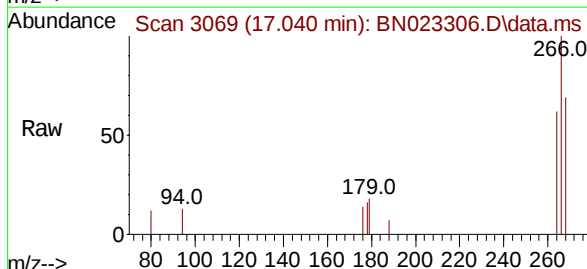
Tgt Ion:266 Resp: 973

Ion Ratio Lower Upper

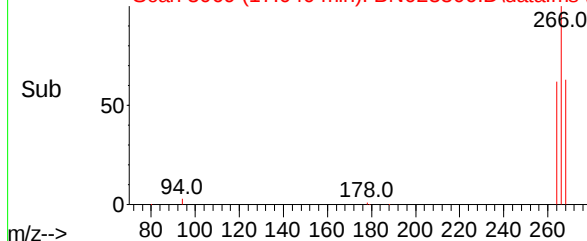
266 100

264 61.9 49.8 74.6

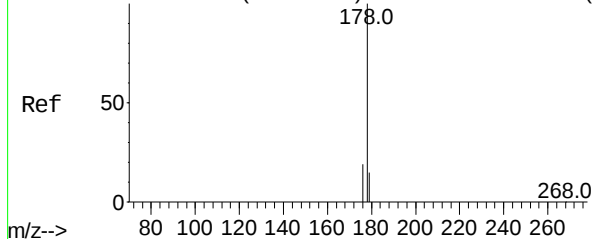
268 65.7 51.4 77.0



Abundance Scan 3069 (17.040 min): BN023306.D\data.ms (-3045) (-)



Abundance Scan 3162 (17.433 min): BN023308.D\data.ms (-3115) (-)



Phenanthrene

Concen: 0.094 ng/ul

RT: 17.432 min Scan#

Delta R.T. -0.001 min

Lab File: BN023306.D

Acq: 21 Dec 2022 09:34

Instrument :

BNA\_N

ClientSampleId :

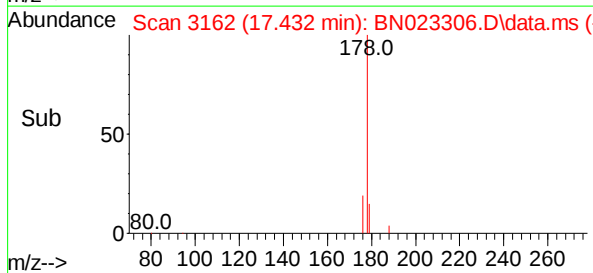
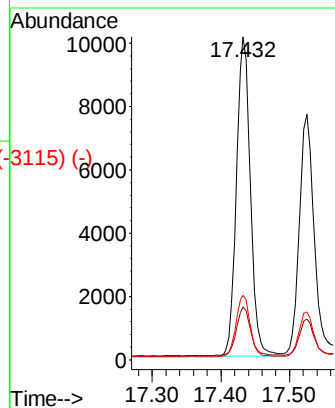
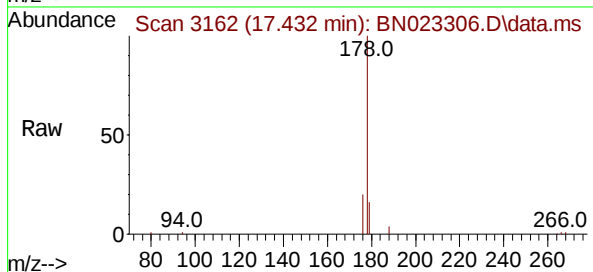
Tgt Ion:178 Resp: 14315

Ion Ratio Lower Upper

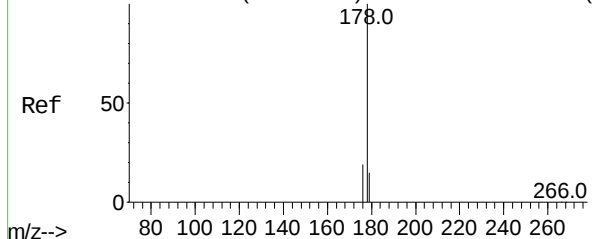
178 100

179 16.4 12.5 18.7

176 20.1 15.7 23.5



Abundance Scan 3184 (17.526 min): BN023308.D\data.ms (-3115) (-)



Anthracene

Concen: 0.087 ng/ul

RT: 17.525 min Scan# 3184

Delta R.T. -0.001 min

Lab File: BN023306.D

Acq: 21 Dec 2022 09:34

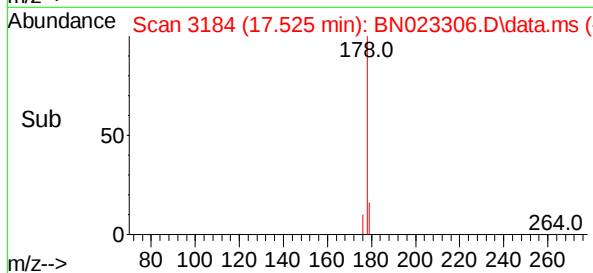
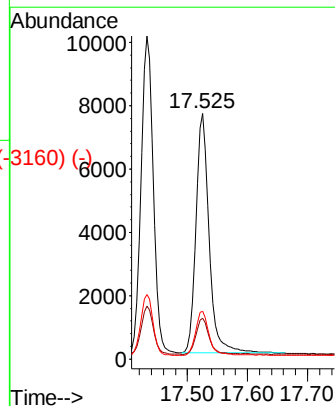
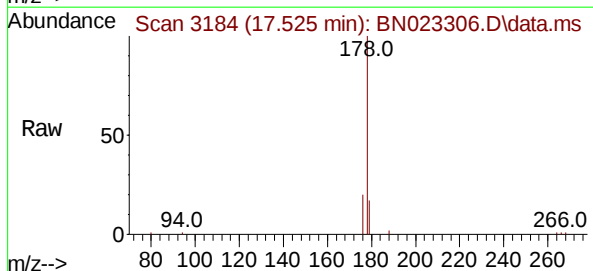
Tgt Ion:178 Resp: 11391

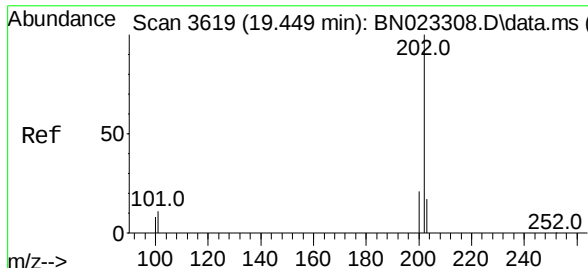
Ion Ratio Lower Upper

178 100

179 16.6 12.6 18.8

176 19.6 15.4 23.0

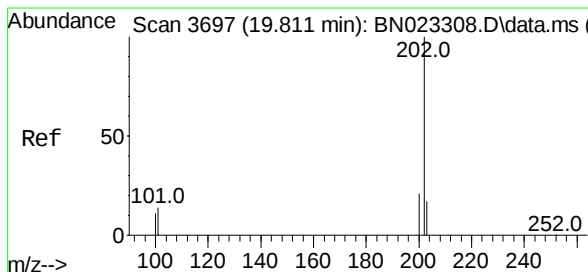
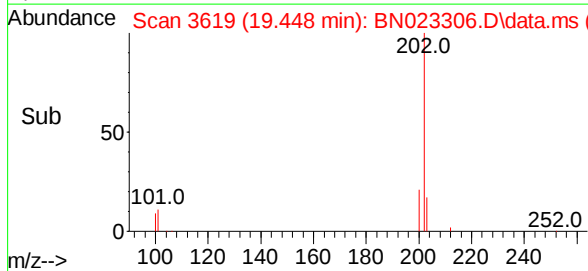
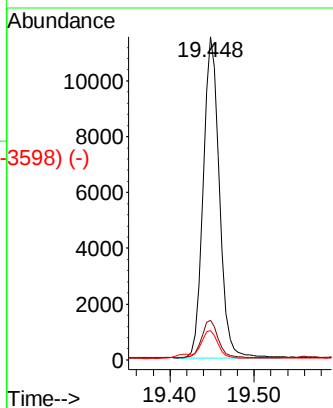
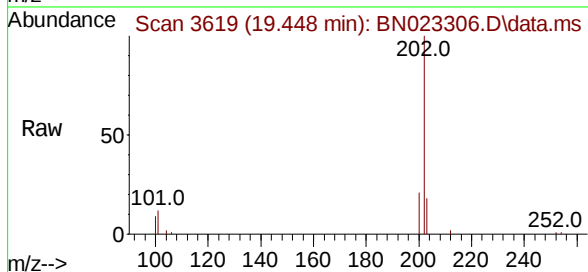




Scan 3619 (19.449 min): BN023308.D\data.ms (-3619) (-)  
 Fluoranthene  
 Concen: 0.090 ng/ul  
 RT: 19.448 min Scan# 3619  
 Delta R.T. -0.001 min  
 Lab File: BN023306.D  
 Acq: 21 Dec 2022 09:34

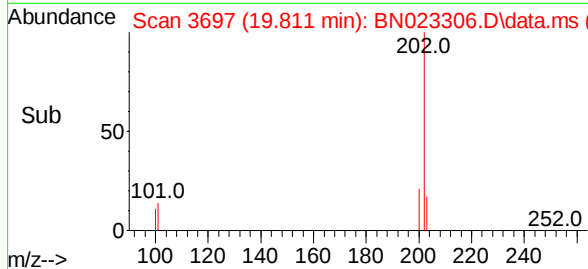
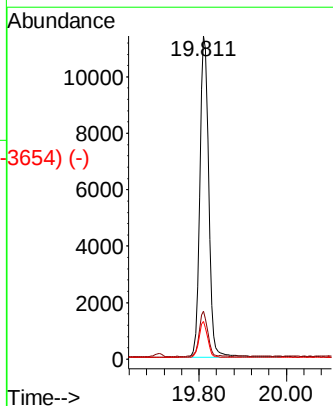
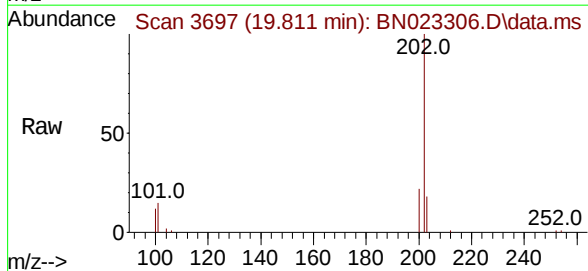
Instrument :  
 BNA\_N  
 ClientSampleId :

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 15526 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.2  | 9.4   | 14.2  |
| 100       | 9.0   | 7.0   | 10.6  |

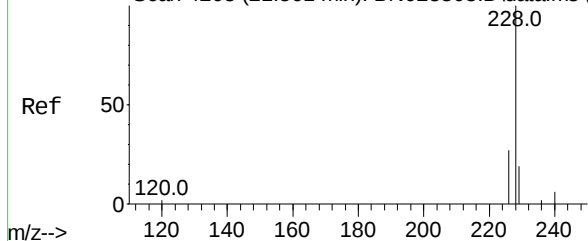


Scan 3697 (19.811 min): BN023308.D\data.ms (-3629) (-)  
 Pyrene  
 Concen: 0.095 ng/ul  
 RT: 19.811 min Scan# 3697  
 Delta R.T. -0.001 min  
 Lab File: BN023306.D  
 Acq: 21 Dec 2022 09:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 16028 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 14.9  | 11.3  | 16.9  |
| 100       | 11.6  | 9.0   | 13.4  |

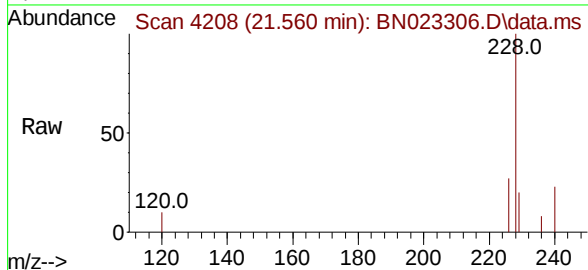


Abundance Scan 4208 (21.561 min): BN023308.D\data.ms (-4122) (-)

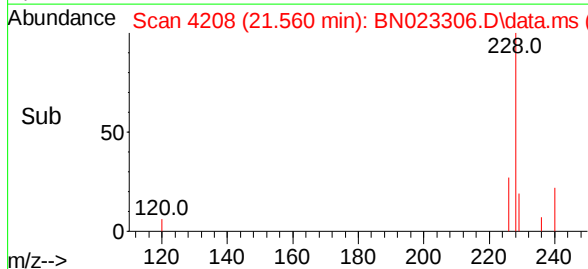
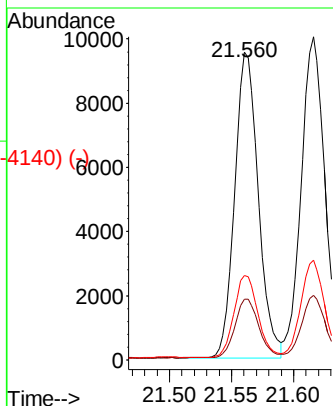


Benzo(a)anthracene  
Concen: 0.099 ng/u1  
RT: 21.560 min Scan# 4122  
Delta R.T. -0.001 min  
Lab File: BN023306.D  
Acq: 21 Dec 2022 09:34

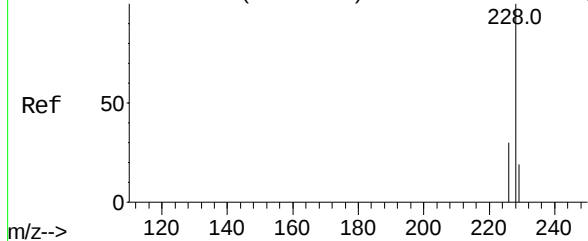
Instrument :  
BNA\_N  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 12571 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 229      | 19.8  | 15.6  | 23.4  |
| 226      | 27.4  | 22.2  | 33.2  |

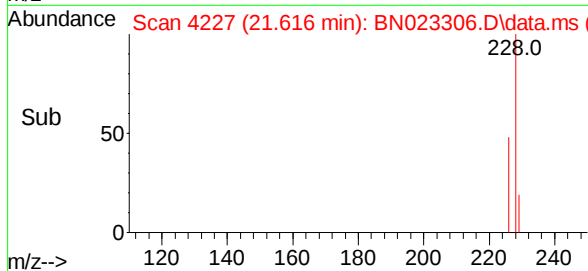
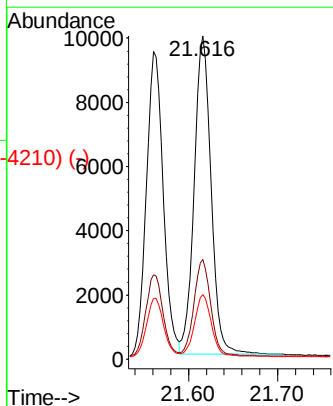
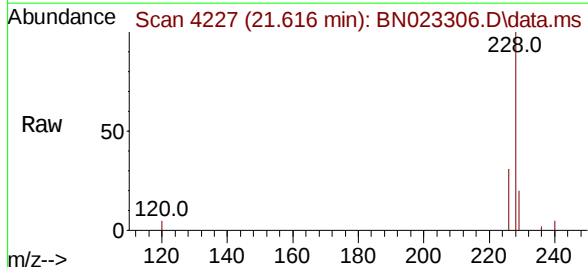


Abundance Scan 4227 (21.617 min): BN023308.D\data.ms (-4122) (-)



Chrysene  
Concen: 0.095 ng/u1  
RT: 21.616 min Scan# 4227  
Delta R.T. -0.001 min  
Lab File: BN023306.D  
Acq: 21 Dec 2022 09:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 13207 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 30.8  | 24.3  | 36.5  |
| 229      | 19.9  | 15.8  | 23.6  |



Abundance Scan 4794 (23.274 min): BN023308.D\data.ms (-4724) (-)

Benzo(b)fluoranthene

Concen: 0.101 ng/u1

RT: 23.273 min Scan# 4794

Delta R.T. -0.001 min

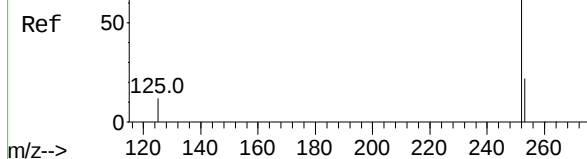
Lab File: BN023306.D

Acq: 21 Dec 2022 09:34

Instrument :

BNA\_N

ClientSampleId :



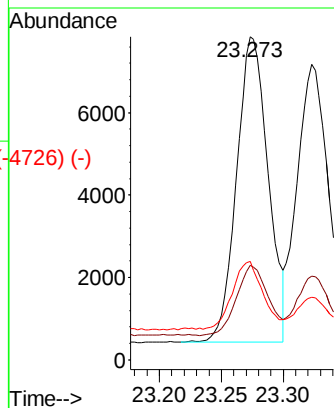
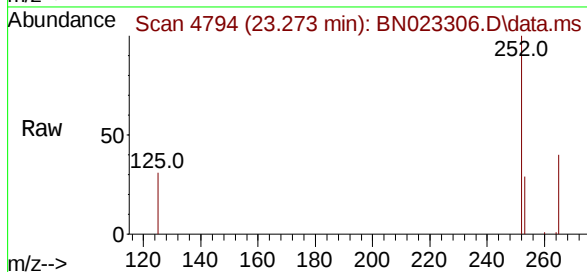
Tgt Ion:252 Resp: 13139

Ion Ratio Lower Upper

252 100

253 29.2 0.0 49.2

125 30.5 0.0 31.8



Abundance Scan 4794 (23.273 min): BN023306.D\data.ms (-4726) (-)

Benzo(k)fluoranthene

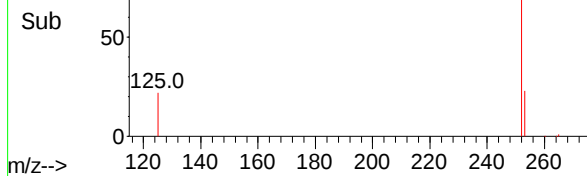
Concen: 0.088 ng/u1

RT: 23.323 min Scan# 4811

Delta R.T. -0.001 min

Lab File: BN023306.D

Acq: 21 Dec 2022 09:34



Tgt Ion:252 Resp: 12180

Ion Ratio Lower Upper

252 100

253 28.4 19.8 29.6

125 21.2 12.6 18.8#

Abundance Scan 4811 (23.324 min): BN023308.D\data.ms (-4825) (-)

Benzo(k)fluoranthene

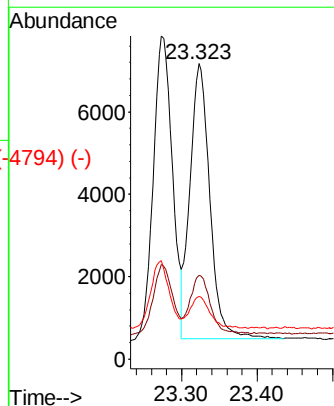
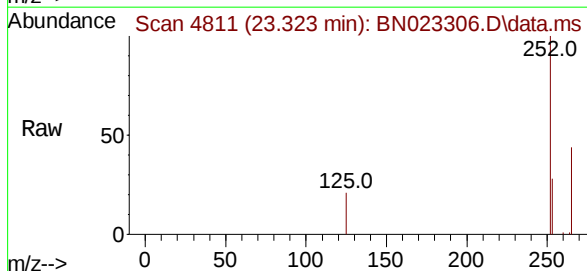
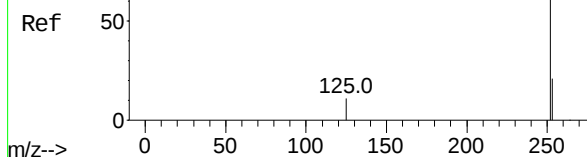
Concen: 0.088 ng/u1

RT: 23.323 min Scan# 4811

Delta R.T. -0.001 min

Lab File: BN023306.D

Acq: 21 Dec 2022 09:34



Abundance Scan 4811 (23.323 min): BN023306.D\data.ms (-4794) (-)

Benzo(k)fluoranthene

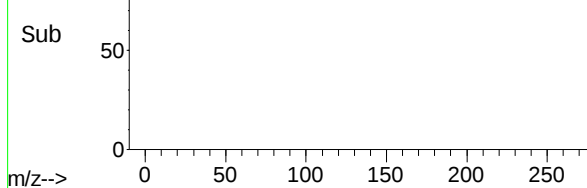
Concen: 0.088 ng/u1

RT: 23.323 min Scan# 4811

Delta R.T. -0.001 min

Lab File: BN023306.D

Acq: 21 Dec 2022 09:34



Abundance Scan 5013 (23.914 min): BN023308.D\data.ms (-4925) (-)

Benzo(a)pyrene

Concen: 0.106 ng/u1

RT: 23.913 min Scan# 4925

Delta R.T. -0.001 min

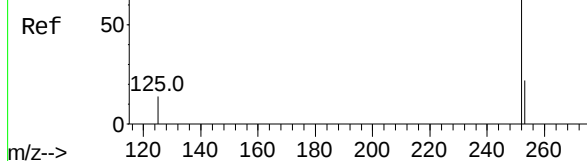
Lab File: BN023306.D

Acq: 21 Dec 2022 09:34

Instrument :

BNA\_N

ClientSampleId :



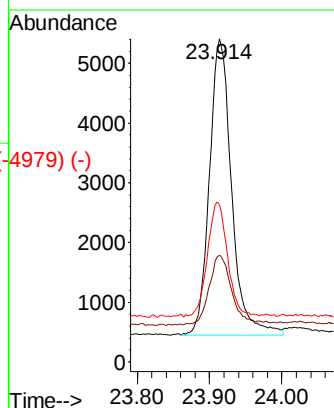
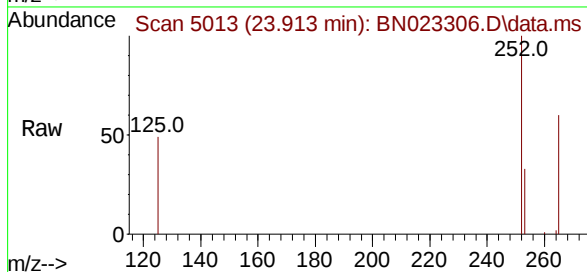
Tgt Ion:252 Resp: 10544

Ion Ratio Lower Upper

252 100

253 33.0 21.4 32.2#

125 48.8 16.2 24.4#



Abundance Scan 5013 (23.913 min): BN023306.D\data.ms (-4979) (-)

Benzo(a)pyrene

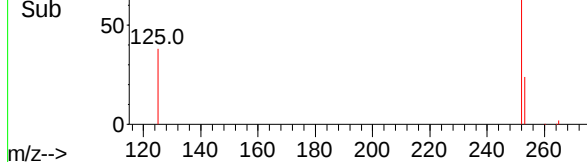
Concen: 0.106 ng/u1

RT: 23.913 min Scan# 4979

Delta R.T. -0.001 min

Lab File: BN023306.D

Acq: 21 Dec 2022 09:34



Abundance Scan 5855 (26.578 min): BN023308.D\data.ms (-5625) (-)

Indeno(1,2,3-cd)pyrene

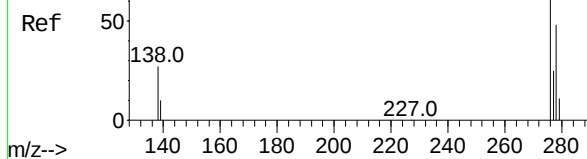
Concen: 0.108 ng/u1

RT: 26.580 min Scan# 5855

Delta R.T. 0.003 min

Lab File: BN023306.D

Acq: 21 Dec 2022 09:34



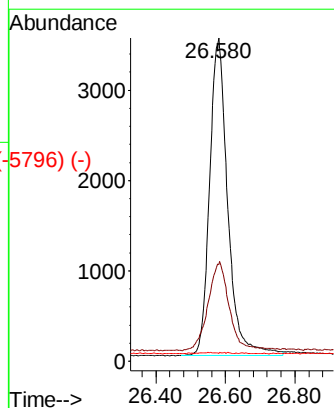
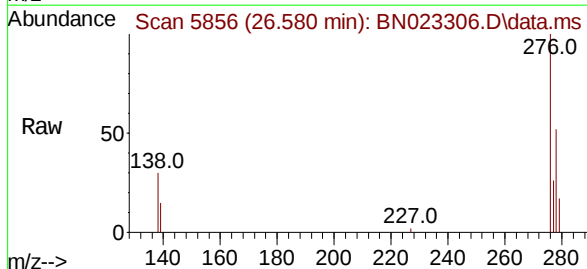
Tgt Ion:276 Resp: 12698

Ion Ratio Lower Upper

276 100

138 32.9 23.4 35.2

227 0.1 0.0 0.0#



Abundance Scan 5856 (26.580 min): BN023306.D\data.ms (-5796) (-)

Indeno(1,2,3-cd)pyrene

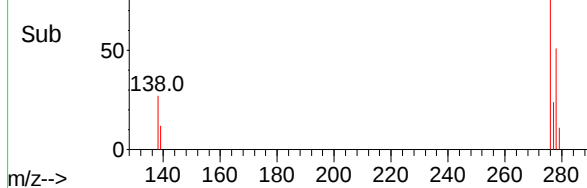
Concen: 0.108 ng/u1

RT: 26.580 min Scan# 5856

Delta R.T. 0.003 min

Lab File: BN023306.D

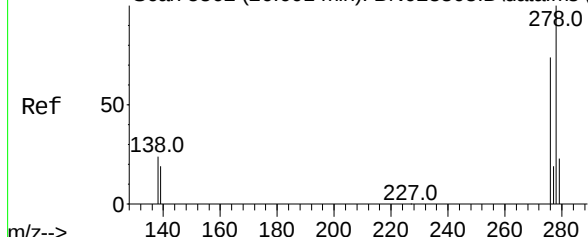
Acq: 21 Dec 2022 09:34



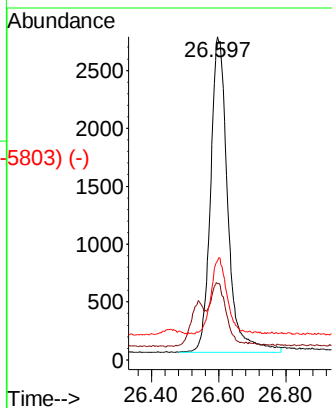
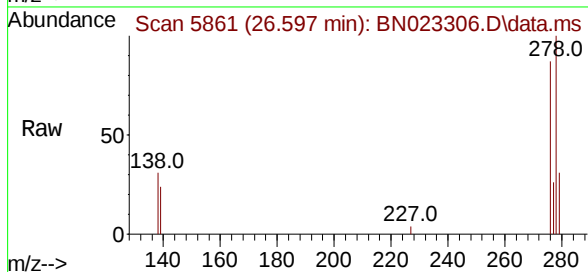
Abundance Scan 5862 (26.601 min): BN023308.D\data.ms (-5828) (-)

Dibenzo(a,h)anthracene  
Concen: 0.103 ng/u1  
RT: 26.597 min Scan# 4  
Delta R.T. -0.004 min  
Lab File: BN023306.D  
Acq: 21 Dec 2022 09:34

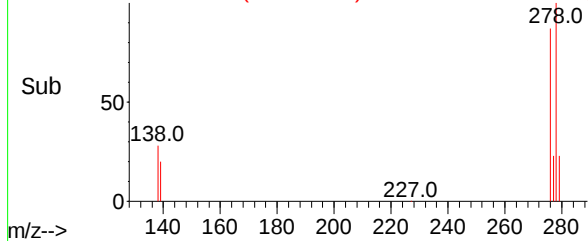
Instrument :  
BNA\_N  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 278   | Resp: | 9666  |
| Ion      | Ratio | Lower | Upper |
| 278      | 100   |       |       |
| 139      | 23.6  | 16.6  | 24.8  |
| 279      | 30.7  | 21.3  | 31.9  |



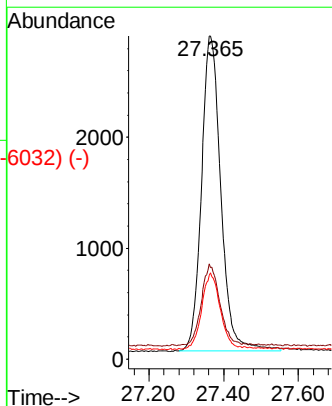
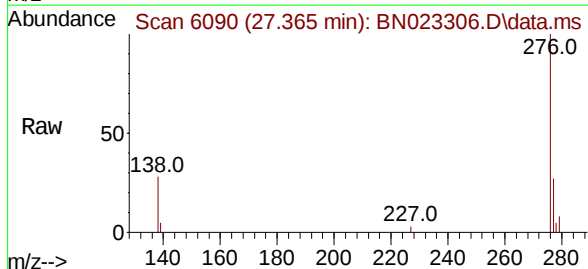
Abundance Scan 5861 (26.597 min): BN023306.D\data.ms (-5803) (-)



Abundance Scan 6091 (27.369 min): BN023308.D\data.ms (-6029) (-)

Benzo(g,h,i)perylene  
Concen: 0.099 ng/u1  
RT: 27.365 min Scan# 6090  
Delta R.T. -0.004 min  
Lab File: BN023306.D  
Acq: 21 Dec 2022 09:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 10197 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 28.2  | 20.3  | 30.5  |
| 277      | 26.7  | 19.7  | 29.5  |



Abundance Scan 6090 (27.365 min): BN023306.D\data.ms (-6032) (-)

