

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN062219\  
 Data File : BN006511.D  
 Acq On : 23 Jun 2019 05:36  
 Operator : HP/JU  
 Sample : K3360-19  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4201

Manual Integrations  
 APPROVED

mohammad  
 6/25/2019 8:45:18 AM

Quant Time: Jun 24 09:25:46 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 17 11:13:07 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.63  | 152  | 5485     | 0.40   | ng/ul  | -0.01    |
| 2) Naphthalene-d8           | 10.41 | 136  | 21042    | 0.40   | ng/ul  | -0.02    |
| 6) Acenaphthene-d10         | 14.28 | 164  | 11977    | 0.40   | ng/ul  | -0.01    |
| 10) Phenanthrene-d10        | 17.04 | 188  | 22177m   | 0.40   | ng/ul  | -0.02    |
| 16) Chrysene-d12            | 21.25 | 240  | 12248m   | 0.40   | ng/ul  | -0.02    |
| 20) Perylene-d12            | 23.48 | 264  | 11604m   | 0.40   | ng/ul  | -0.03    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.01 | 152  | 12114    | 0.38   | ng/ul  | -0.02    |
| 14) Fluoranthene-d10        | 19.08 | 212  | 24488m   | 0.41   | ng/ul  | -0.01    |
| Target Compounds            |       |      |          |        | Qvalue |          |
| 3) Naphthalene              | 10.46 | 128  | 68740    | 1.184  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.08 | 142  | 37074    | 0.916  | ng/ul  | 100      |
| 7) Acenaphthylene           | 14.00 | 152  | 7967     | 0.120  | ng/ul# | 87       |
| 8) Acenaphthene             | 14.34 | 153  | 369538   | 8.002  | ng/ul  | 100      |
| 9) Fluorene                 | 15.34 | 166  | 504689   | 9.340  | ng/ul  | 99       |
| 12) Phenanthrene            | 17.09 | 178  | 4982622m | 69.992 | ng/ul  |          |
| 13) Anthracene              | 17.17 | 178  | 1171895m | 17.237 | ng/ul  |          |
| 15) Fluoranthene            | 19.11 | 202  | 5525805m | 70.296 | ng/ul  |          |
| 17) Pyrene                  | 19.48 | 202  | 4357254  | 67.538 | ng/ul  | 96       |
| 18) Benzo(a)anthracene      | 21.23 | 228  | 1800824m | 33.243 | ng/ul  |          |
| 19) Chrysene                | 21.29 | 228  | 1870828  | 36.788 | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.82 | 252  | 1994616m | 41.223 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.85 | 252  | 760623m  | 16.139 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.39 | 252  | 1370593m | 30.414 | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 25.71 | 276  | 880982m  | 18.061 | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 25.71 | 278  | 239195m  | 6.134  | ng/ul  |          |
| 26) Benzo(g,h,i)perylene    | 26.39 | 276  | 730469m  | 17.880 | ng/ul  |          |

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

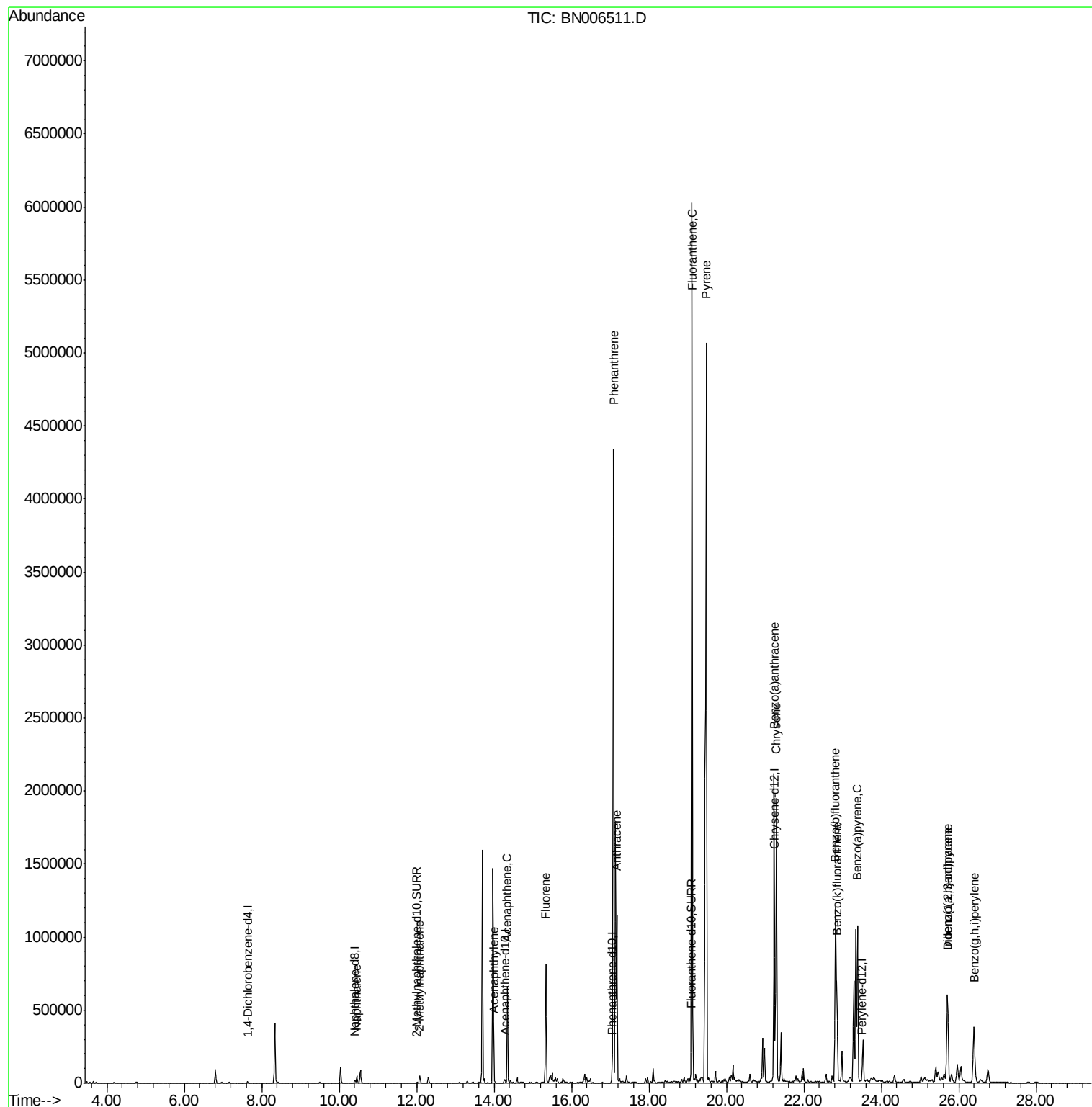
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN062219\  
Data File : BN006511.D  
Acq On : 23 Jun 2019 05:36  
Operator : HP/JU  
Sample : K3360-19  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

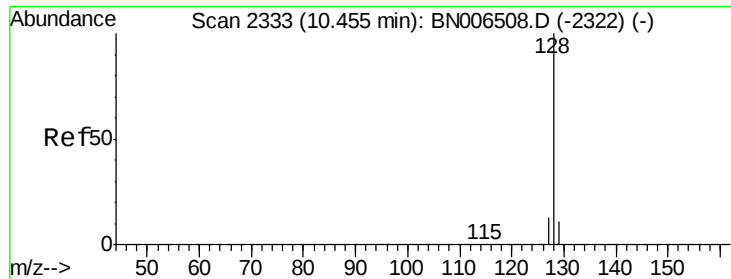
Instrument :  
BNA\_N  
ClientSampleId :  
A4201

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Quant Time: Jun 24 09:25:46 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN053019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 17 11:13:07 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 1.184 ng/ul

RT: 10.46 min Scan# 2333

Delta R.T. -0.02 min

Lab File: BN006511.D

Acq: 23 Jun 2019 05:36

Instrument :

BNA\_N

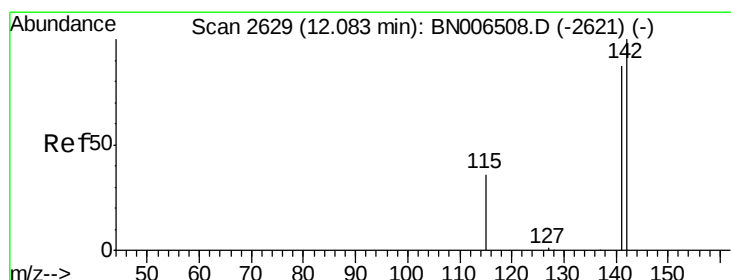
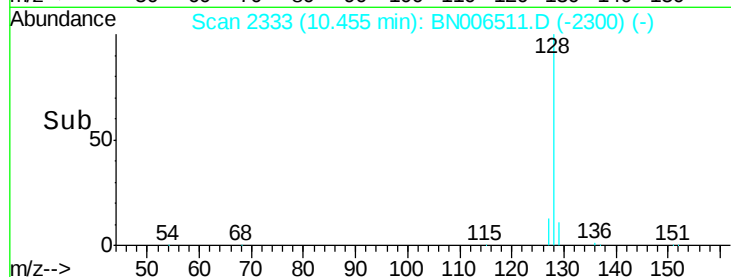
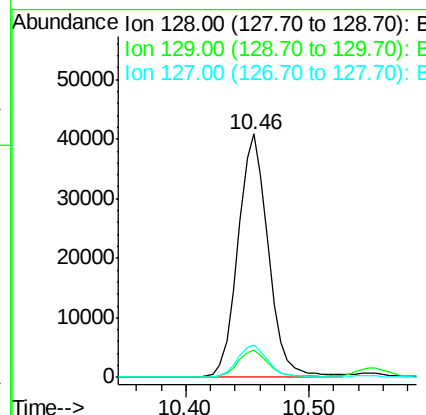
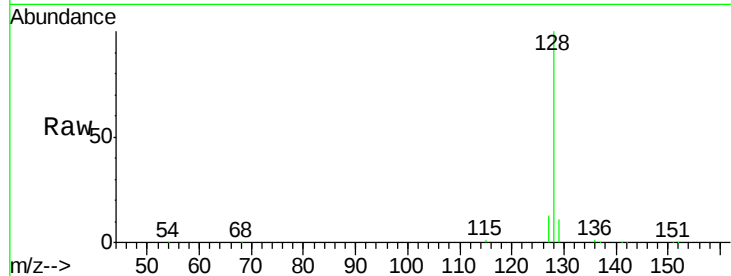
ClientSampled :

A4201

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 68740 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.1  | 9.3   | 13.9  |
| 127       | 13.1  | 10.7  | 16.1  |

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#5

2-Methylnaphthalene

Concen: 0.916 ng/ul

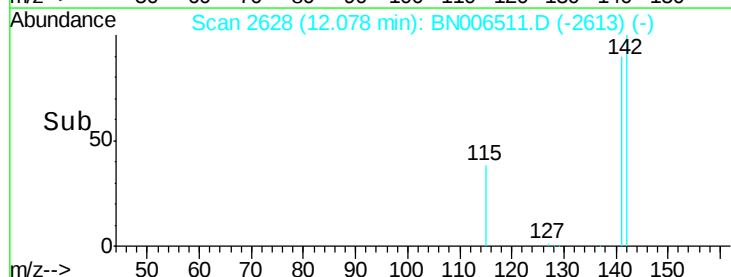
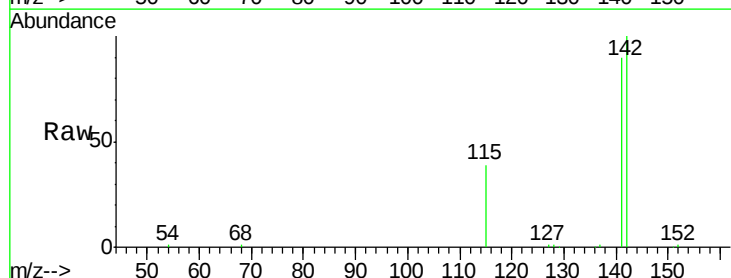
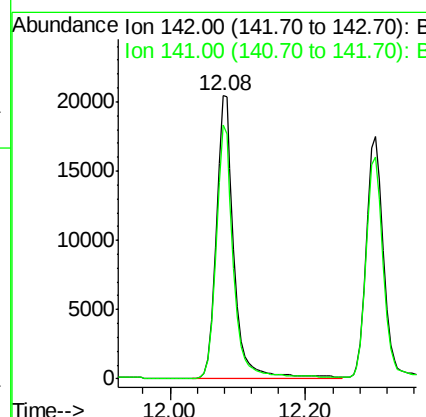
RT: 12.08 min Scan# 2628

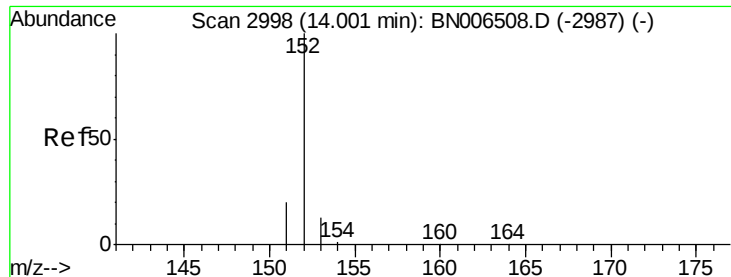
Delta R.T. -0.02 min

Lab File: BN006511.D

Acq: 23 Jun 2019 05:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 37074 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 88.3  | 70.3  | 105.5 |





#7

Acenaphthylene

Concen: 0.120 ng/ul

RT: 14.00 min Scan# 2998

Delta R.T. -0.01 min

Lab File: BN006511.D

Acq: 23 Jun 2019 05:36

Instrument :

BNA\_N

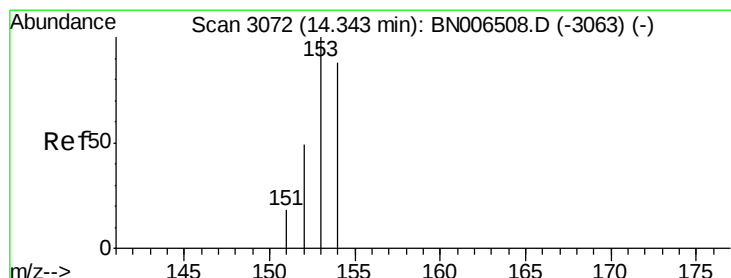
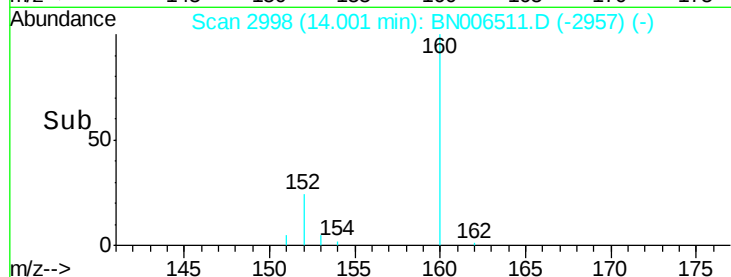
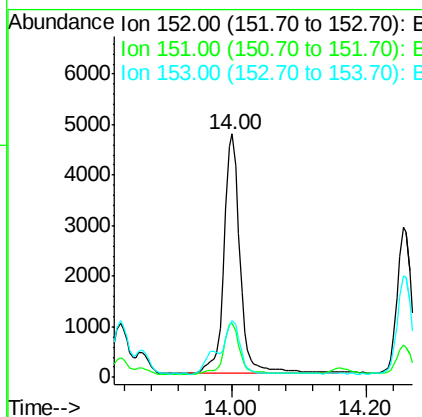
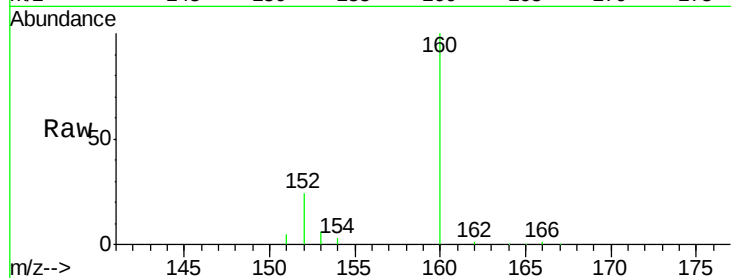
ClientSampleId :

A4201

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 7967 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 22.2  | 15.8  | 23.8 |
| 153       | 23.3  | 10.8  | 16.2 |

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#8

Acenaphthene

Concen: 8.002 ng/ul

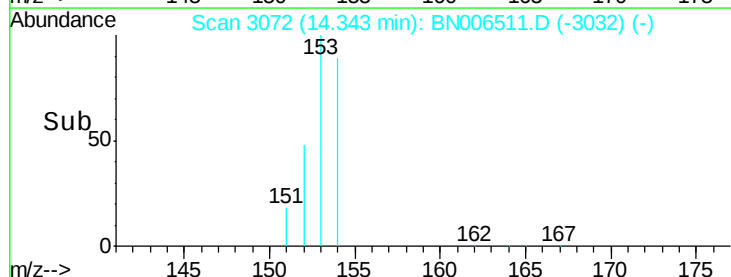
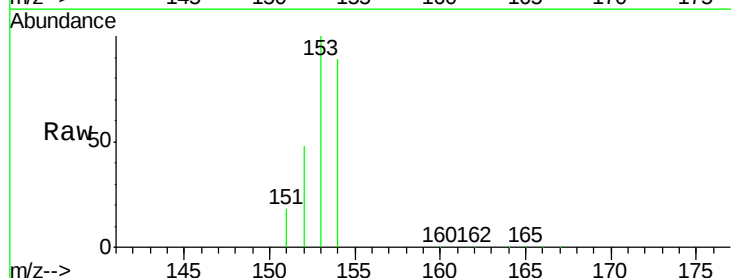
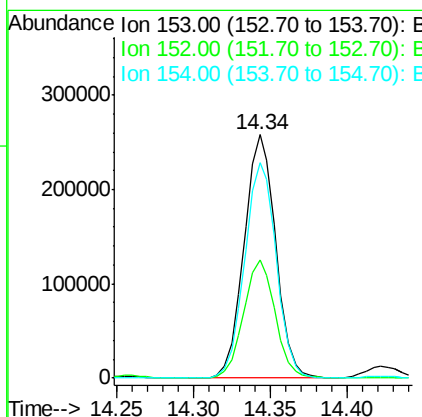
RT: 14.34 min Scan# 3072

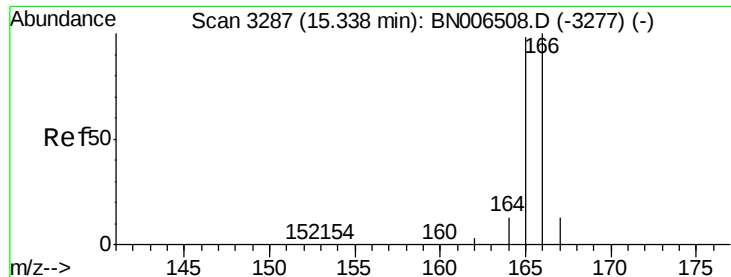
Delta R.T. -0.01 min

Lab File: BN006511.D

Acq: 23 Jun 2019 05:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 369538 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 48.5  | 39.1  | 58.7   |
| 154       | 88.7  | 71.1  | 106.7  |





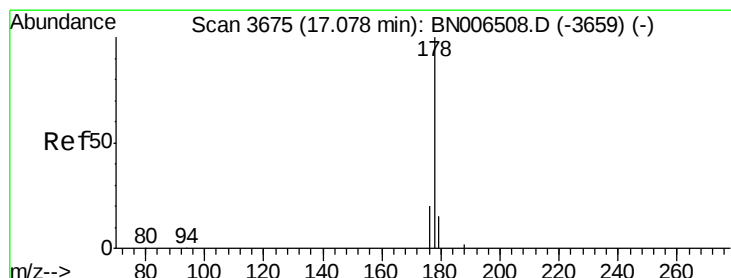
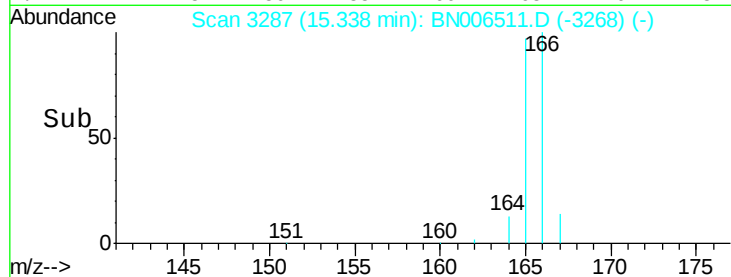
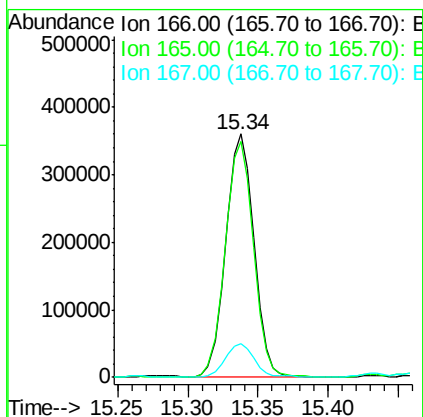
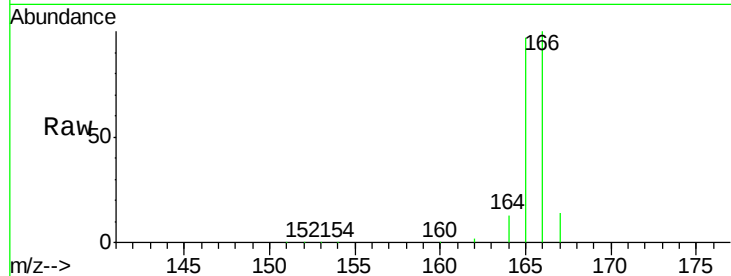
#9  
**Fluorene**  
 Concen: 9.340 ng/ul  
 RT: 15.34 min Scan# 3287  
 Delta R.T. -0.01 min  
 Lab File: BN006511.D  
 Acq: 23 Jun 2019 05:36

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4201

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 96.7  | 76.4  | 114.6 |
| 167     | 13.9  | 11.0  | 16.6  |

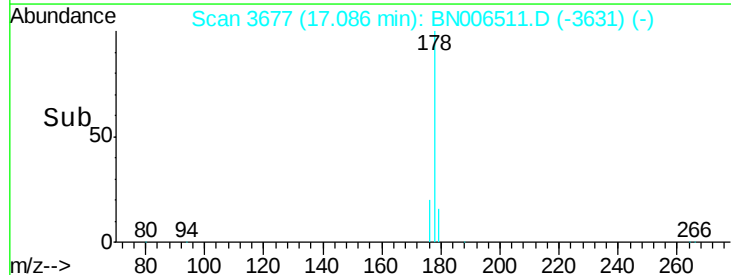
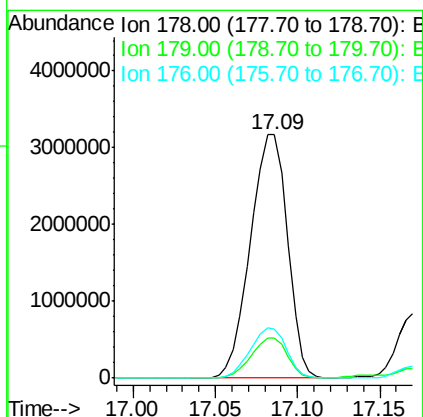
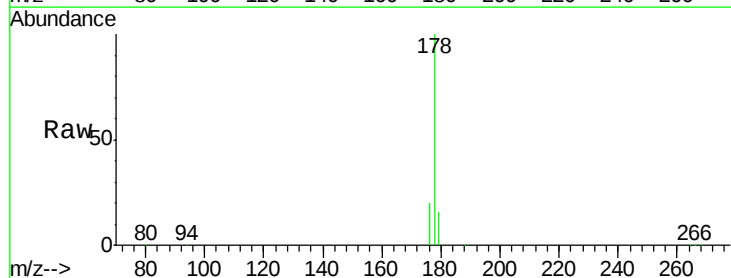
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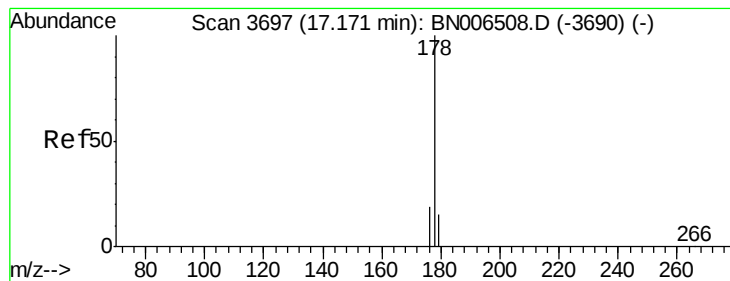
mohammad  
 6/25/2019 8:45:18 AM



#12  
**Phenanthrene**  
 Concen: 69.992 ng/ul m  
 RT: 17.09 min Scan# 3677  
 Delta R.T. -0.00 min  
 Lab File: BN006511.D  
 Acq: 23 Jun 2019 05:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.4  | 12.3  | 18.5  |
| 176     | 20.3  | 15.3  | 22.9  |





#13

Anthracene

Concen: 17.237 ng/ul m

RT: 17.17 min Scan# 3697

Delta R.T. -0.02 min

Lab File: BN006511.D

Acq: 23 Jun 2019 05:36

Instrument :

BNA\_N

ClientSampleId :

A4201

Tgt Ion:178 Resp: 1171895

Ion Ratio Lower Upper

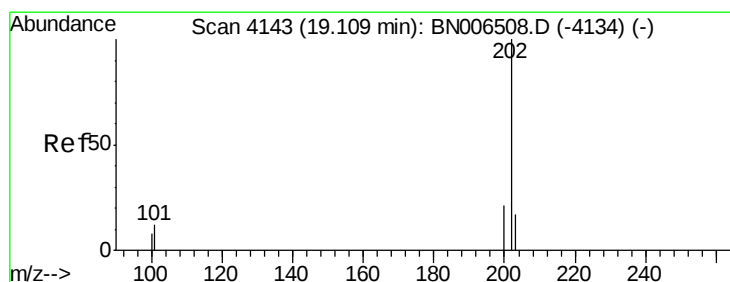
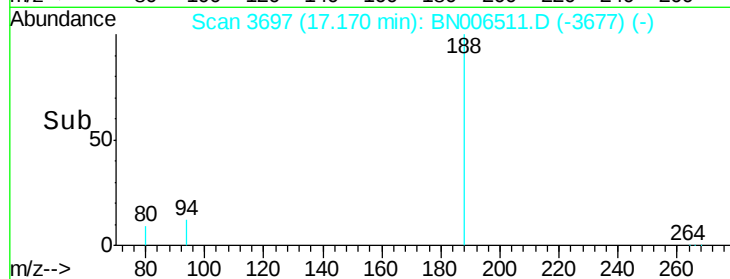
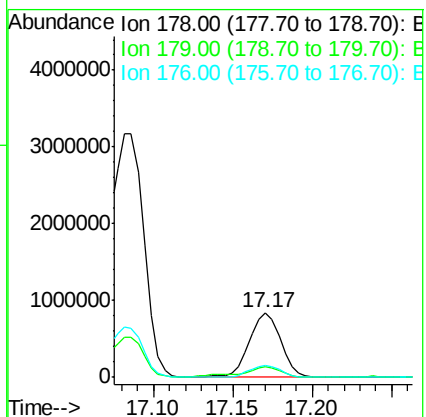
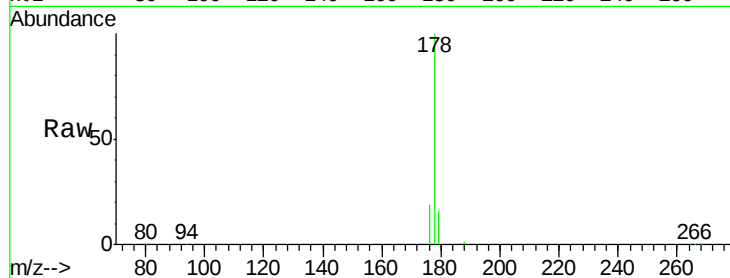
178 100

179 15.7 12.2 18.4

176 19.0 15.1 22.7

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#15

Fluoranthene

Concen: 70.296 ng/ul m

RT: 19.11 min Scan# 4144

Delta R.T. -0.00 min

Lab File: BN006511.D

Acq: 23 Jun 2019 05:36

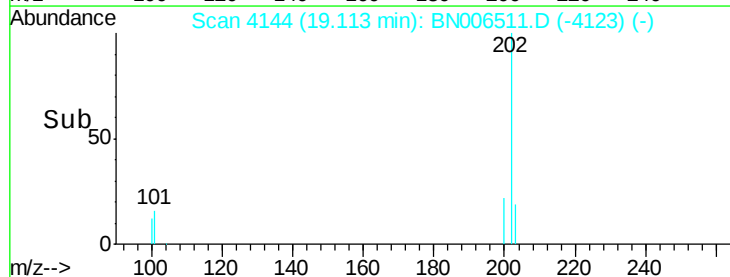
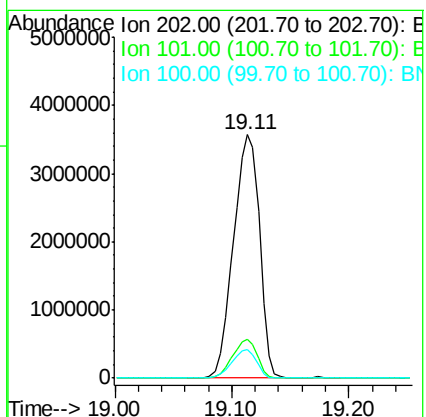
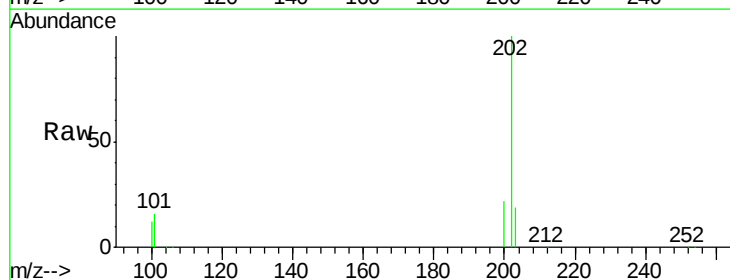
Tgt Ion:202 Resp: 5525805

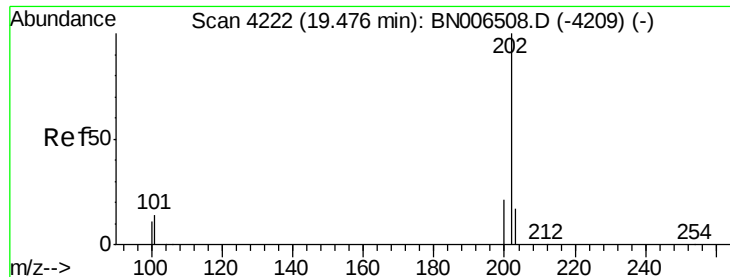
Ion Ratio Lower Upper

202 100

101 15.7 0.0 32.1

100 11.6 0.0 28.7





#17

Pyrene

Concen: 67.538 ng/ul

RT: 19.48 min Scan# 4223

Delta R.T. -0.00 min

Lab File: BN006511.D

Acq: 23 Jun 2019 05:36

Instrument :

BNA\_N

ClientSampleId :

A4201

Tgt Ion:202 Resp: 4357254

Ion Ratio Lower Upper

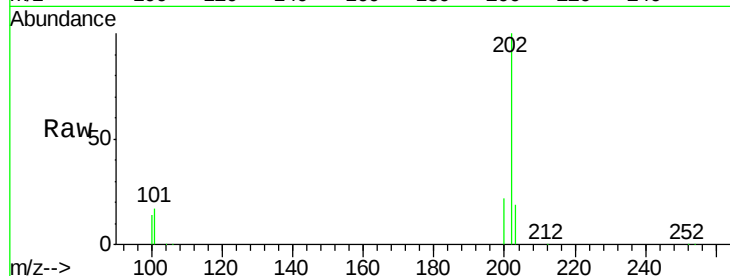
202 100

101 17.3 12.2 18.2

100 13.6 9.8 14.6

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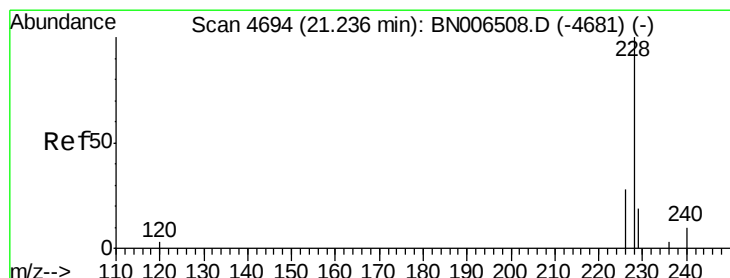
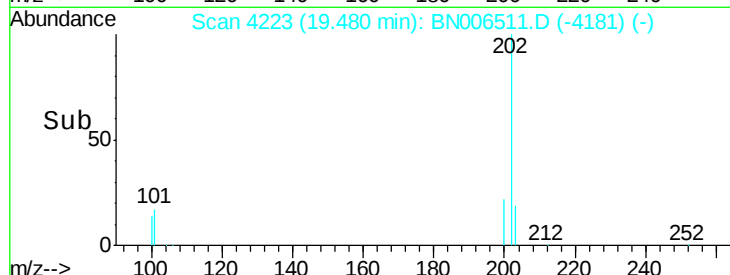
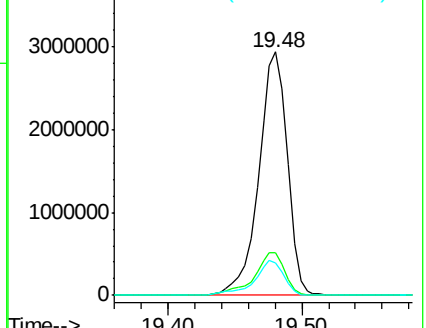
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#18

Benzo(a)anthracene

Concen: 33.243 ng/ul m

RT: 21.23 min Scan# 4693

Delta R.T. -0.02 min

Lab File: BN006511.D

Acq: 23 Jun 2019 05:36

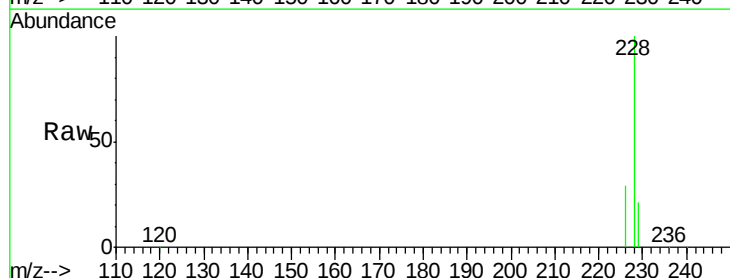
Tgt Ion:228 Resp: 1800824

Ion Ratio Lower Upper

228 100

229 20.6 16.5 24.7

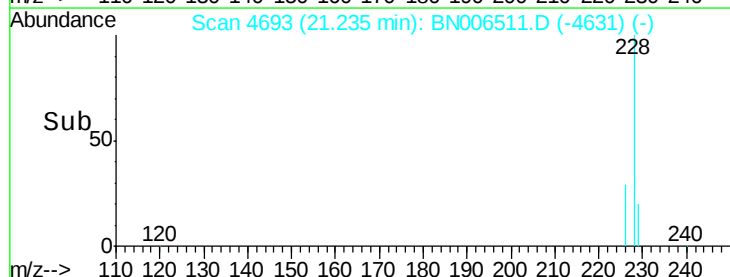
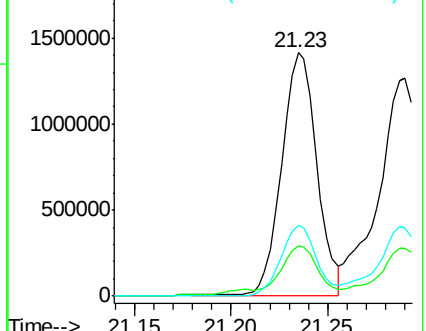
226 29.1 22.8 34.2

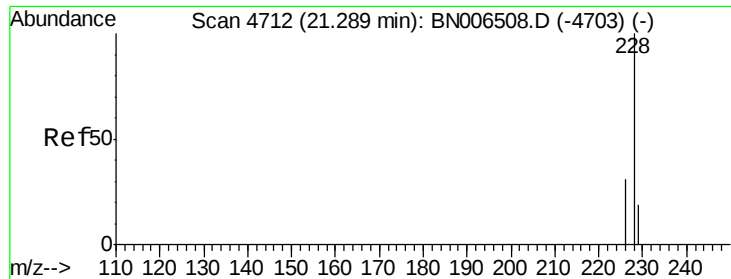


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 36.788 ng/ul

RT: 21.29 min Scan# 4712

Delta R.T. -0.02 min

Lab File: BN006511.D

Acq: 23 Jun 2019 05:36

Instrument :

BNA\_N

ClientSampleId :

A4201

Tgt Ion:228 Resp: 1870828

Ion Ratio Lower Upper

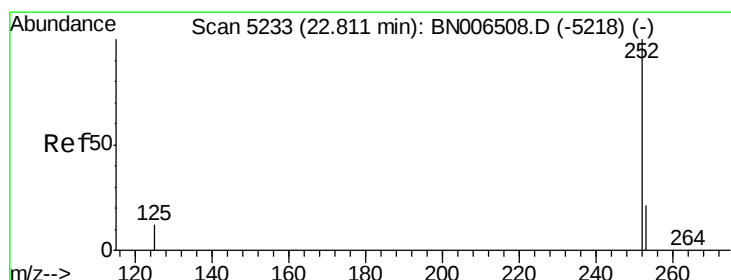
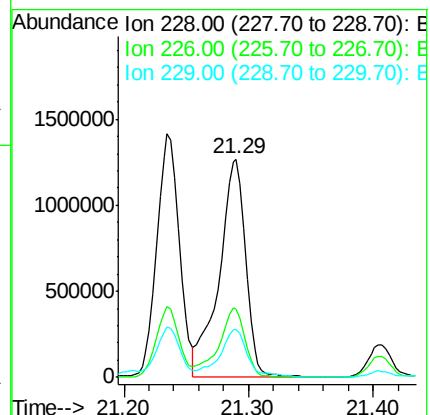
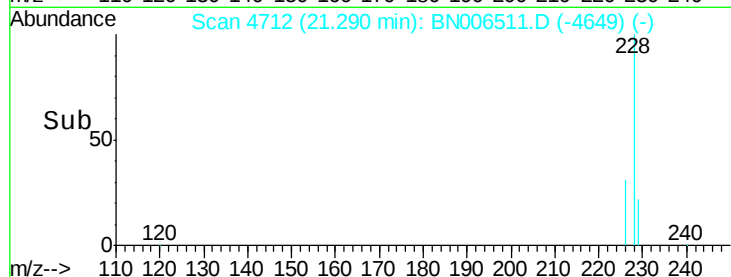
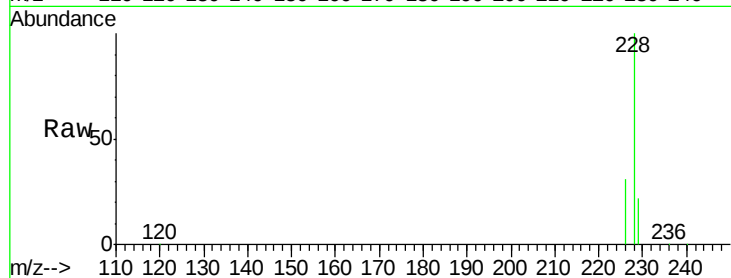
228 100

226 31.4 25.0 37.6

229 22.1 16.3 24.5

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#21

Benzo(b)fluoranthene

Concen: 41.223 ng/ul m

RT: 22.82 min Scan# 5234

Delta R.T. -0.02 min

Lab File: BN006511.D

Acq: 23 Jun 2019 05:36

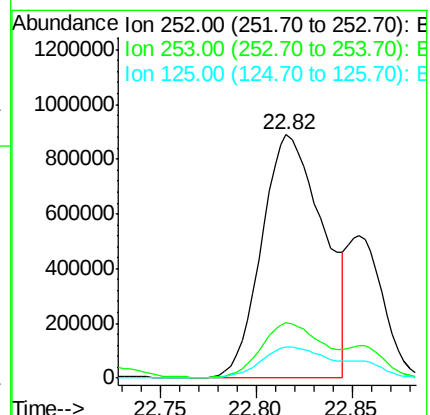
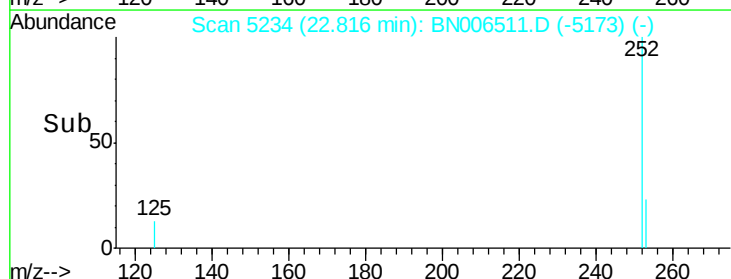
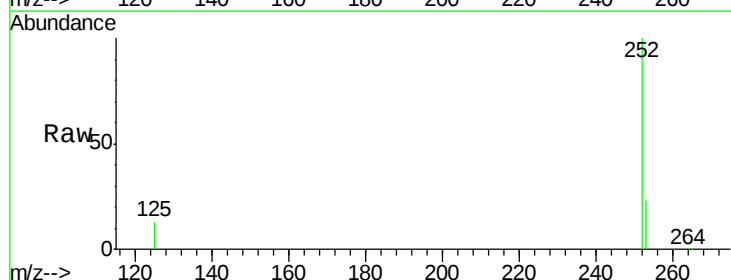
Tgt Ion:252 Resp: 1994616

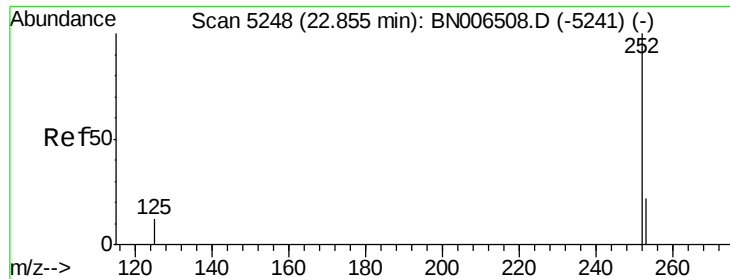
Ion Ratio Lower Upper

252 100

253 22.7 0.0 51.4

125 12.8 0.0 41.0





#22

Benzo(k)fluoranthene

Concen: 16.139 ng/ul m

RT: 22.85 min Scan# 5247

Delta R.T. -0.03 min

Lab File: BN006511.D

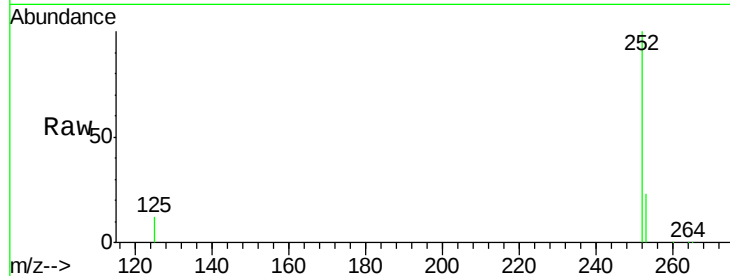
Acq: 23 Jun 2019 05:36

Instrument :

BNA\_N

ClientSampleId :

A4201



Tgt Ion: 252 Resp: 760623

Ion Ratio Lower Upper

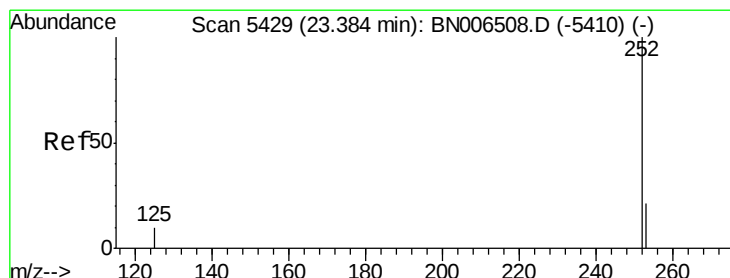
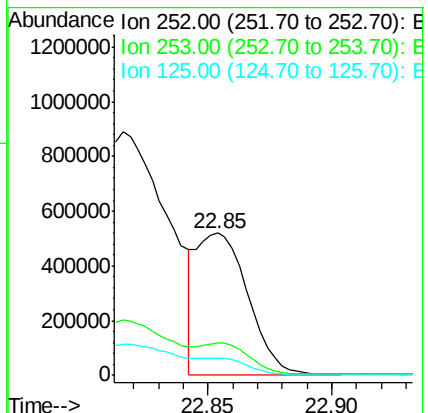
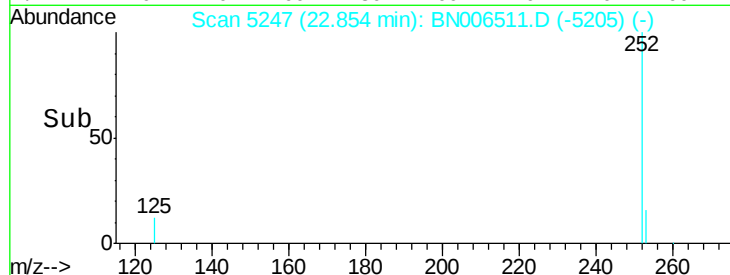
252 100

253 23.0 20.3 30.5

125 12.4 14.3 21.5#

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#23

Benzo(a)pyrene

Concen: 30.414 ng/ul m

RT: 23.39 min Scan# 5429

Delta R.T. -0.02 min

Lab File: BN006511.D

Acq: 23 Jun 2019 05:36

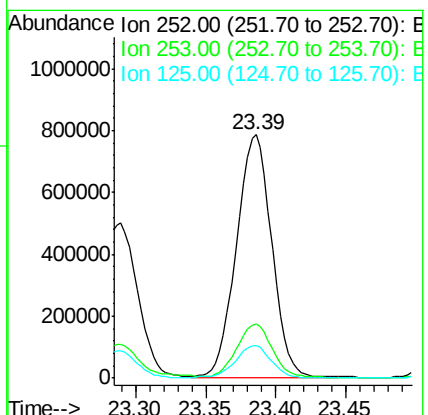
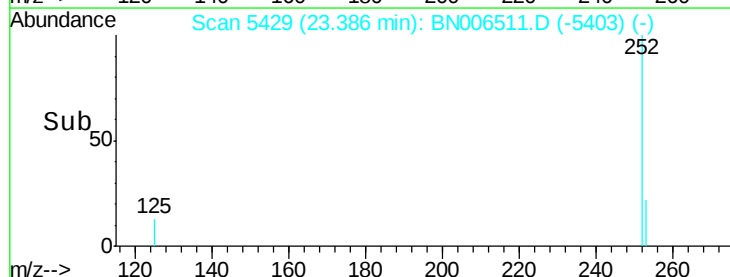
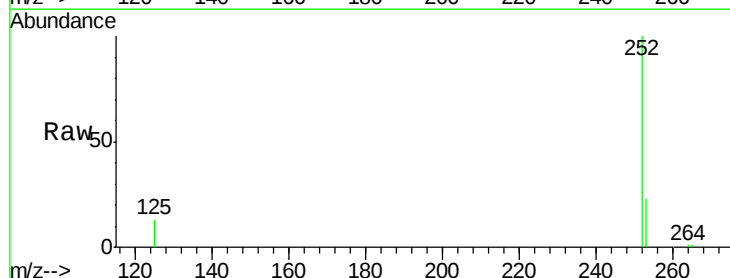
Tgt Ion: 252 Resp: 1370593

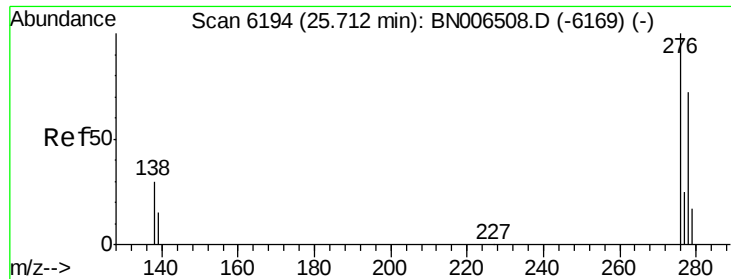
Ion Ratio Lower Upper

252 100

253 22.5 21.1 31.7

125 13.4 20.3 30.5#





#24

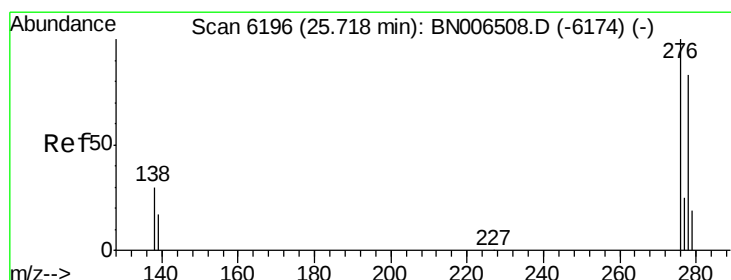
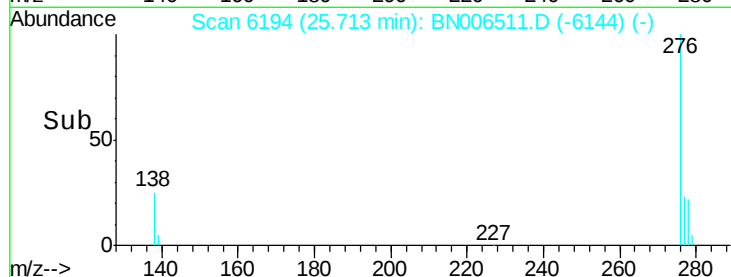
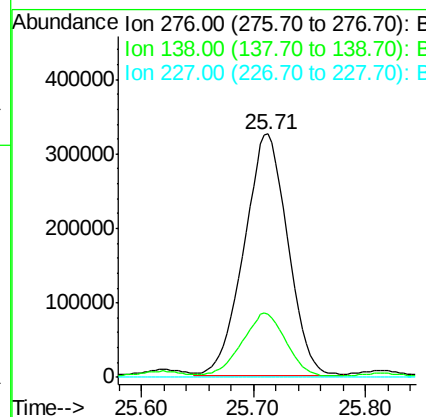
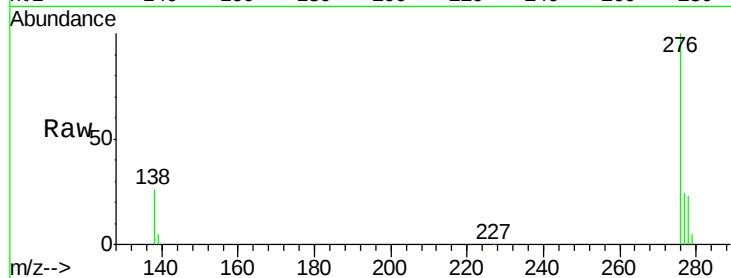
Indeno(1,2,3-cd)pyrene  
Concen: 18.061 ng/ul m  
RT: 25.71 min Scan# 6194  
Delta R.T. -0.03 min  
Lab File: BN006511.D  
Acq: 23 Jun 2019 05:36

Instrument :  
BNA\_N  
ClientSampleId :  
A4201

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 3.1   | 25.6       | 38.4#      |
| 227     | 0.1   | 0.3        | 0.5#       |

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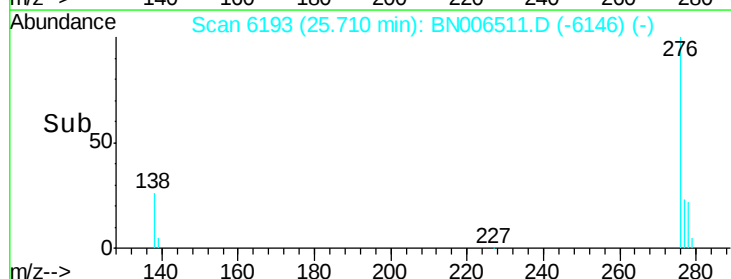
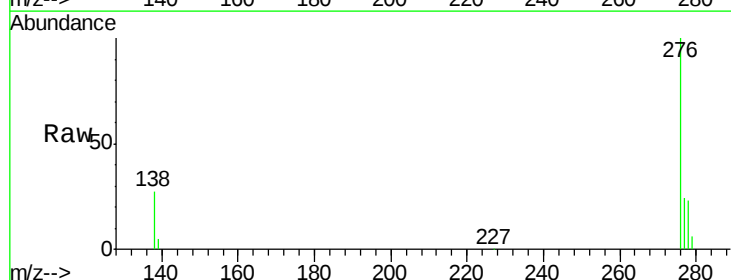
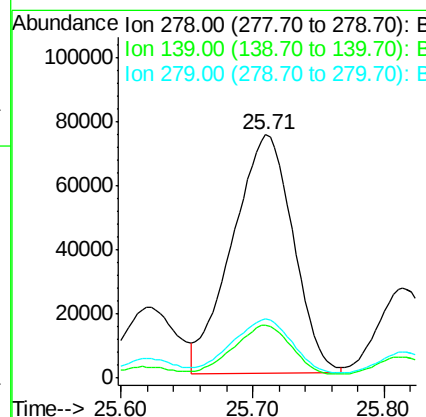
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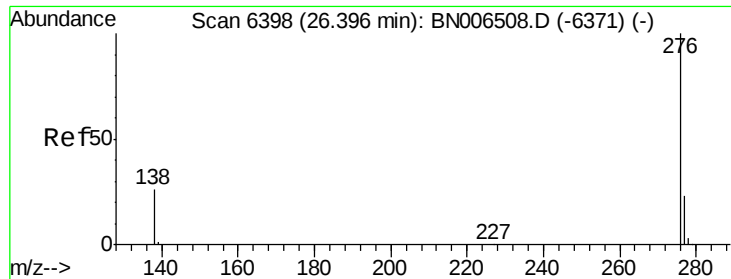


#25

Dibenzo(a,h)anthracene  
Concen: 6.134 ng/ul m  
RT: 25.71 min Scan# 6193  
Delta R.T. -0.04 min  
Lab File: BN006511.D  
Acq: 23 Jun 2019 05:36

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 278     | 100   |            |            |
| 139     | 22.0  | 21.2       | 31.8       |
| 279     | 24.1  | 22.6       | 33.8       |





#26  
 Benzo(g,h,i)perylene  
 Concen: 17.880 ng/ul m  
 RT: 26.39 min Scan# 6397  
 Delta R.T. -0.04 min  
 Lab File: BN006511.D  
 Acq: 23 Jun 2019 05:36

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A4201

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 730469 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 26.5  | 24.2  | 36.4   |
| 277       | 24.1  | 21.5  | 32.3   |

Manual Integrations  
 APPROVED

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