

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN102419\  
 Data File : BN008388.D  
 Acq On : 24 Oct 2019 15:25  
 Operator : JU  
 Sample : K5235-22  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPC1

Manual Integrations  
 APPROVED

mohammad  
 10/25/2019 8:05:40 AM

Quant Time: Oct 24 16:05:41 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN101019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 24 13:52:48 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.57  | 152  | 1926     | 0.40   | ng/ul  | -0.01    |
| 2) Naphthalene-d8           | 10.33 | 136  | 9528     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.21 | 164  | 5863     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.96 | 188  | 12678    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.17 | 240  | 10766    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.33 | 264  | 8828     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.94 | 152  | 2577     | 0.16   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.00 | 212  | 7593     | 0.17   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.38 | 128  | 2756     | 0.102  | ng/ul# | 94       |
| 5) 2-Methylnaphthalene      | 12.01 | 142  | 1590     | 0.085  | ng/ul  | 100      |
| 7) Acenaphthylene           | 13.93 | 152  | 8466     | 0.303  | ng/ul  | 99       |
| 8) Acenaphthene             | 14.27 | 153  | 2185     | 0.101  | ng/ul  | 98       |
| 9) Fluorene                 | 15.26 | 166  | 3243     | 0.132  | ng/ul# | 94       |
| 12) Phenanthrene            | 17.00 | 178  | 75808    | 2.042  | ng/ul  | 99       |
| 13) Anthracene              | 17.09 | 178  | 15400    | 0.471  | ng/ul  | 99       |
| 15) Fluoranthene            | 19.03 | 202  | 185758   | 3.789  | ng/ul  | 99       |
| 17) Pyrene                  | 19.39 | 202  | 187944   | 4.384  | ng/ul  | 97       |
| 18) Benzo(a)anthracene      | 21.15 | 228  | 106054   | 2.709  | ng/ul  | 98       |
| 19) Chrysene                | 21.20 | 228  | 112510   | 2.342  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.70 | 252  | 112992m  | 3.932  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.73 | 252  | 41488m   | 1.274  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.24 | 252  | 77907    | 2.576  | ng/ul# | 86       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.48 | 276  | 44474    | 1.249  | ng/ul# | 99       |
| 25) Dibenzo(a,h)anthracene  | 25.49 | 278  | 11959    | 0.425  | ng/ul# | 92       |
| 26) Benzo(g,h,i)perylene    | 26.14 | 276  | 44200    | 1.353  | ng/ul  | 98       |

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

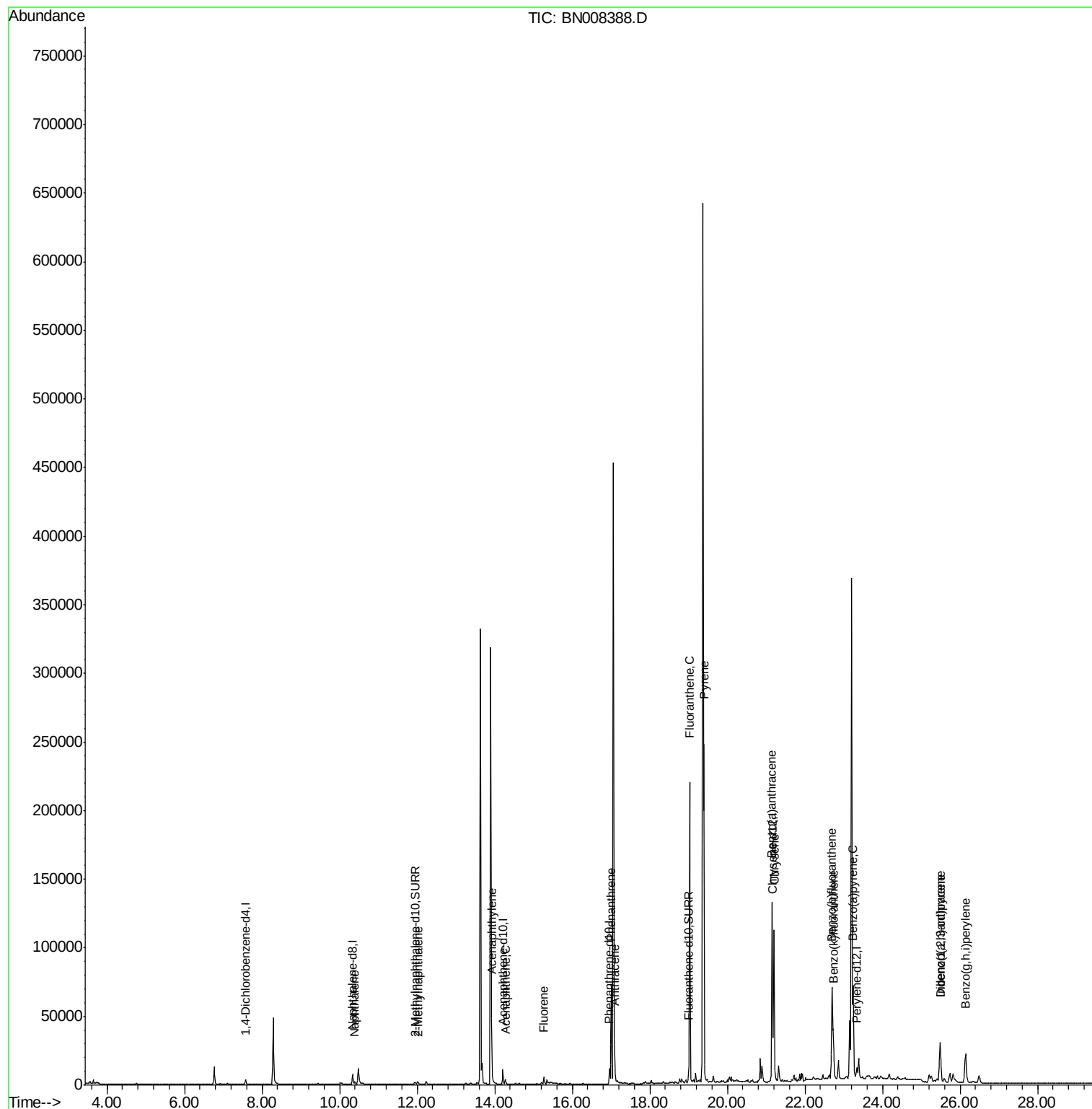
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN102419\  
Data File : BN008388.D  
Acq On : 24 Oct 2019 15:25  
Operator : JU  
Sample : K5235-22  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

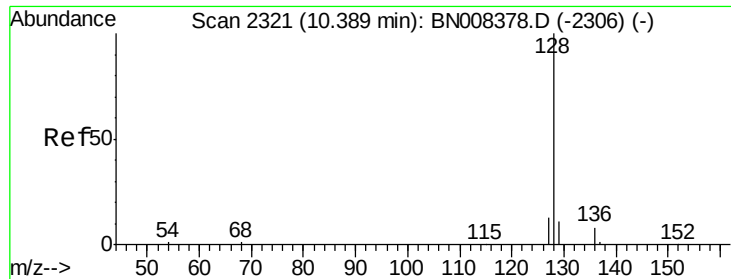
Instrument :  
BNA\_N  
ClientSampleId :  
BEPC1

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Quant Time: Oct 24 16:05:41 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-SIM-BN101019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 24 13:52:48 2019  
Response via : Initial Calibration





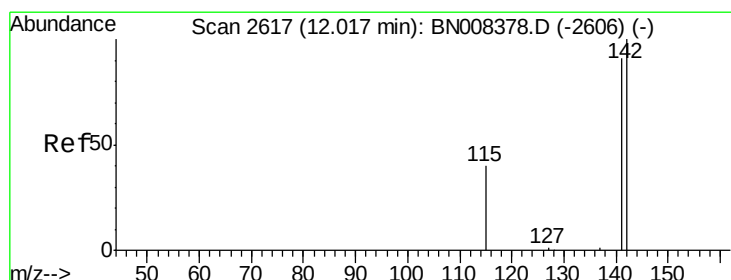
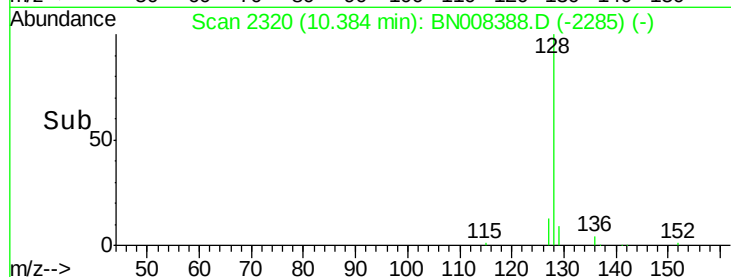
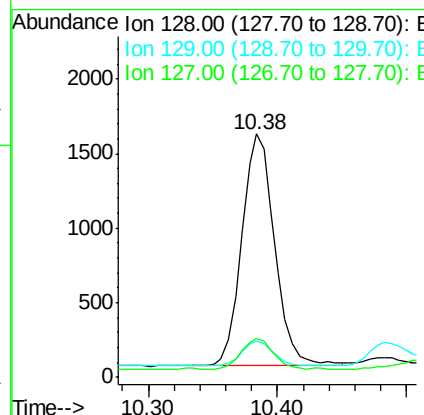
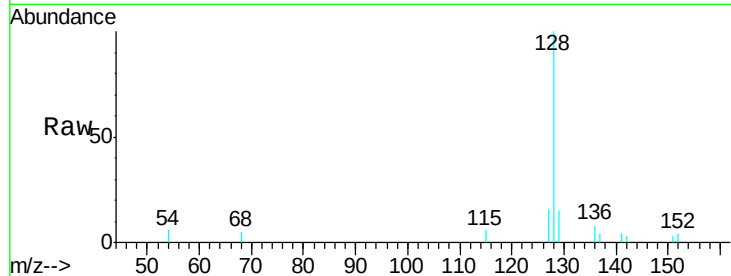
#3  
Naphthalene  
Concen: 0.102 ng/ul  
RT: 10.38 min Scan# 2320  
Delta R.T. -0.01 min  
Lab File: BN008388.D  
Acq: 24 Oct 2019 15:25

Instrument :  
BNA\_N  
ClientSampleId :  
BEPC1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 15.0  | 9.8   | 14.8# |
| 127     | 16.1  | 11.1  | 16.7  |

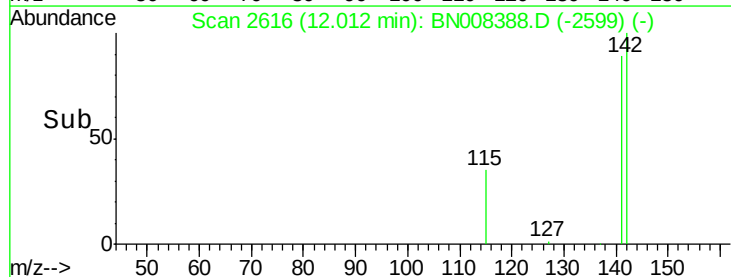
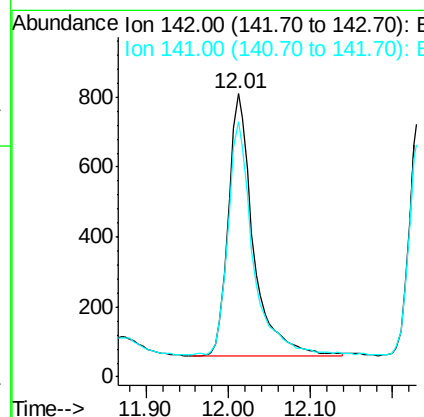
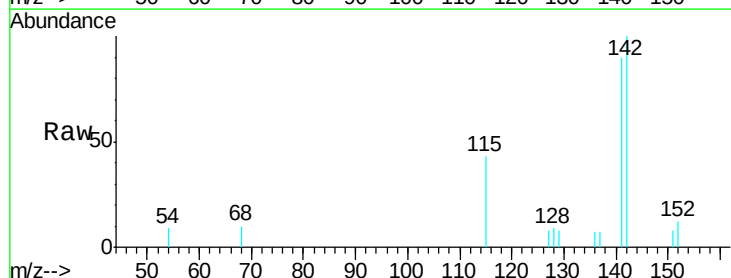
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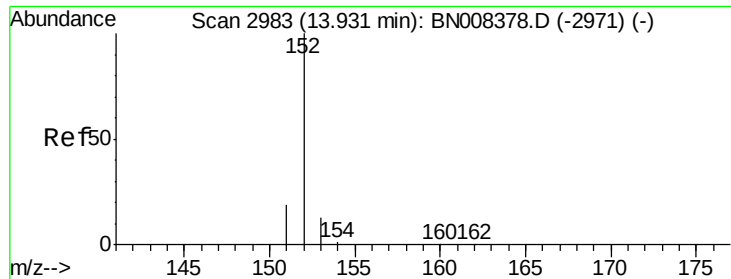
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#5  
2-Methylnaphthalene  
Concen: 0.085 ng/ul  
RT: 12.01 min Scan# 2616  
Delta R.T. -0.01 min  
Lab File: BN008388.D  
Acq: 24 Oct 2019 15:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.9  | 71.4  | 107.2 |





#7

Acenaphthylene

Concen: 0.303 ng/ul

RT: 13.93 min Scan# 2982

Delta R.T. -0.00 min

Lab File: BN008388.D

Acq: 24 Oct 2019 15:25

Instrument :

BNA\_N

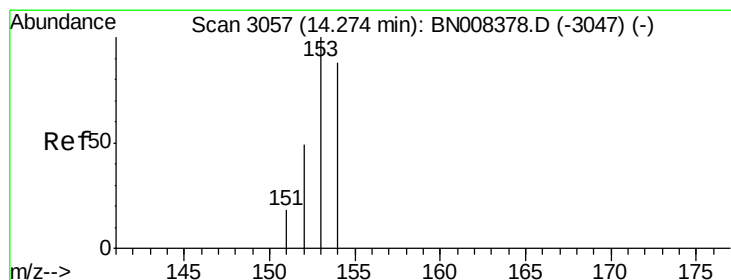
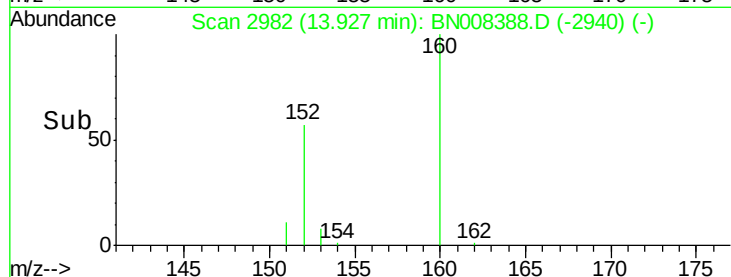
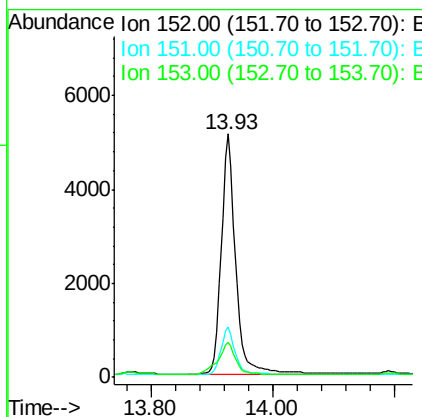
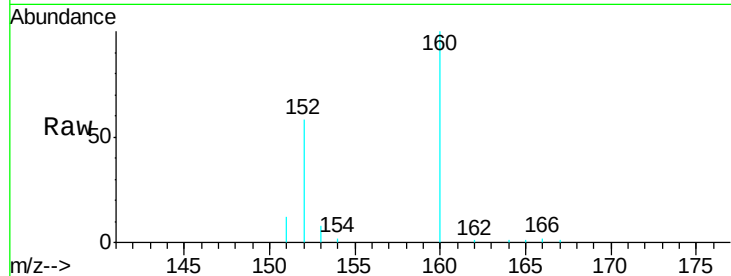
ClientSampleId :

BEPC1

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 8466 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.6  | 16.2  | 24.4 |
| 153       | 14.5  | 11.0  | 16.4 |

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#8

Acenaphthene

Concen: 0.101 ng/ul

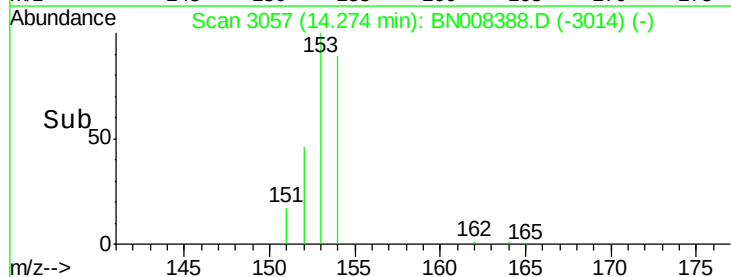
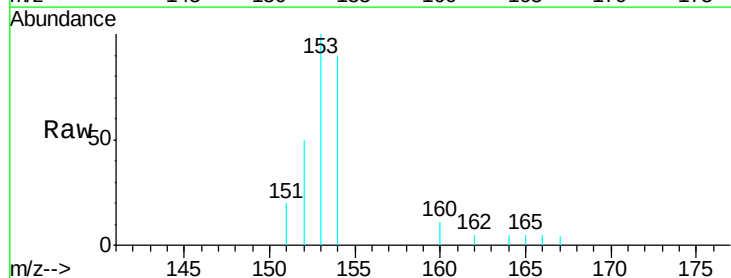
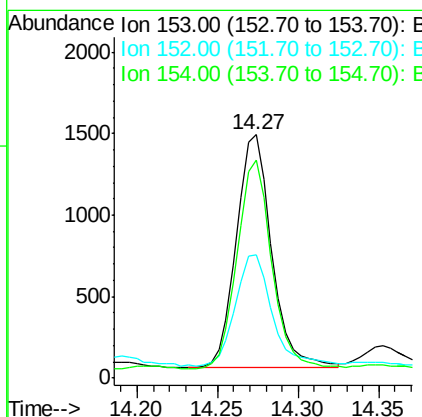
RT: 14.27 min Scan# 3057

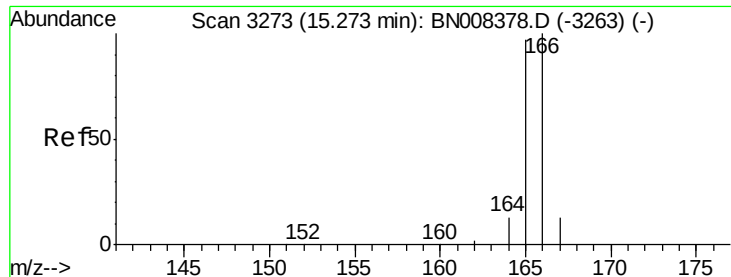
Delta R.T. 0.00 min

Lab File: BN008388.D

Acq: 24 Oct 2019 15:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 2185  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 50.4  | 38.2  | 57.2  |
| 154       | 89.6  | 71.8  | 107.8 |





#9

Fluorene

Concen: 0.132 ng/ul

RT: 15.26 min Scan# 3271

Delta R.T. -0.01 min

Lab File: BN008388.D

Acq: 24 Oct 2019 15:25

Instrument :

BNA\_N

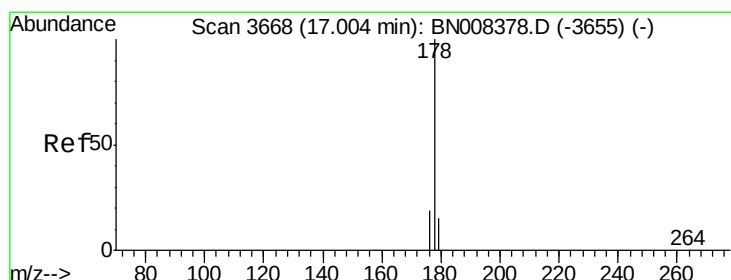
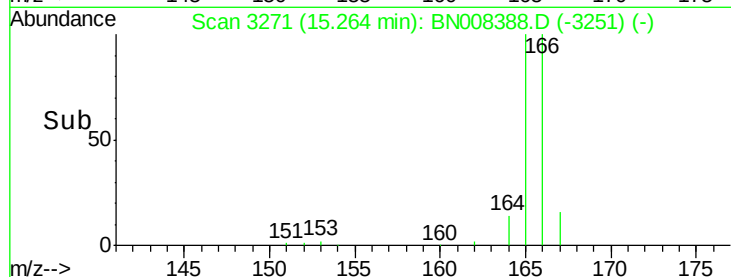
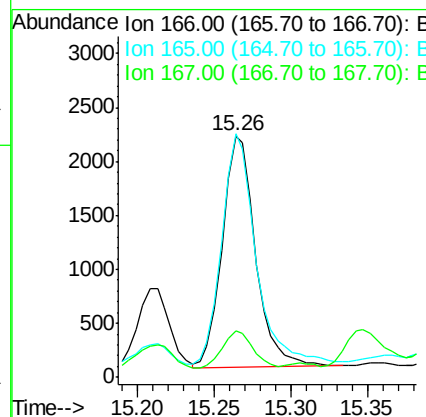
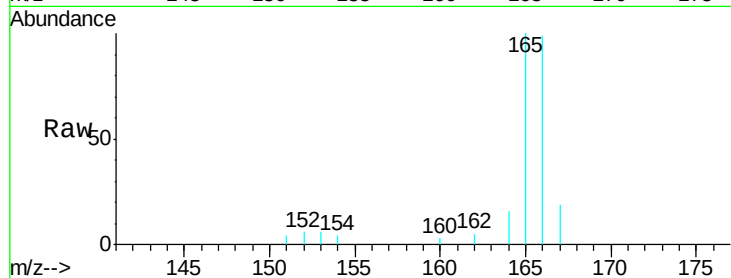
ClientSampleId :

BEPC1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.0 | 76.6  | 115.0 |
| 167     | 19.1  | 11.7  | 17.5  |

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#12

Phenanthrene

Concen: 2.042 ng/ul

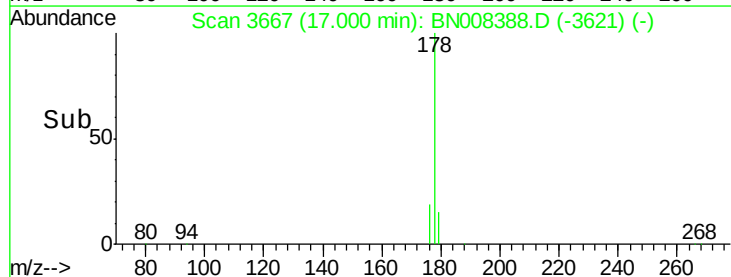
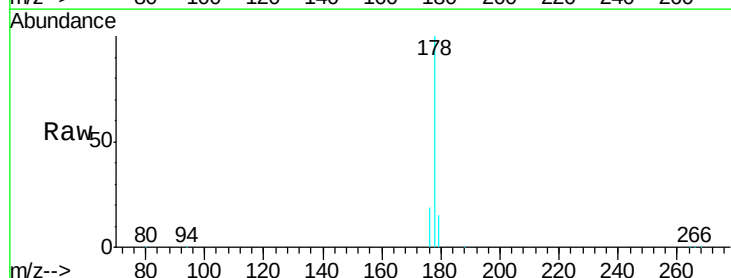
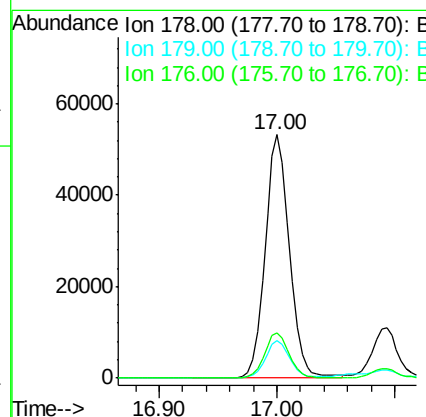
RT: 17.00 min Scan# 3667

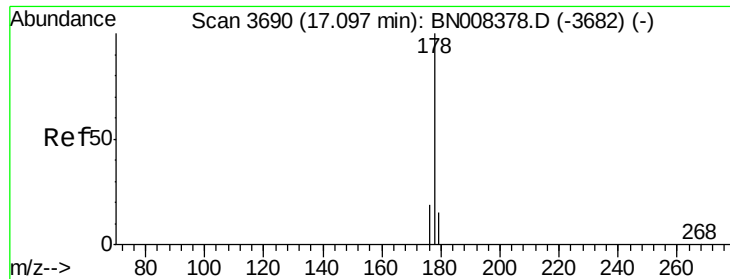
Delta R.T. -0.00 min

Lab File: BN008388.D

Acq: 24 Oct 2019 15:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.5  | 12.8  | 19.2  |
| 176     | 18.7  | 15.4  | 23.2  |





#13

Anthracene

Concen: 0.471 ng/ul

RT: 17.09 min Scan# 3689

Delta R.T. -0.00 min

Lab File: BN008388.D

Acq: 24 Oct 2019 15:25

Instrument :

BNA\_N

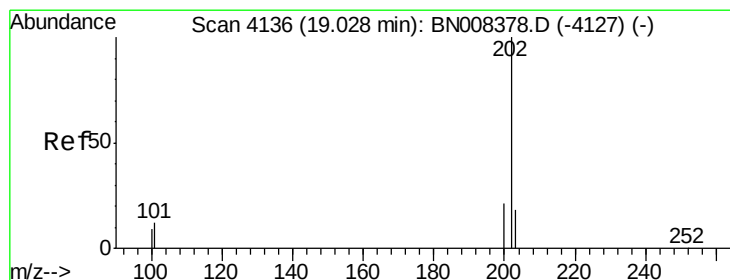
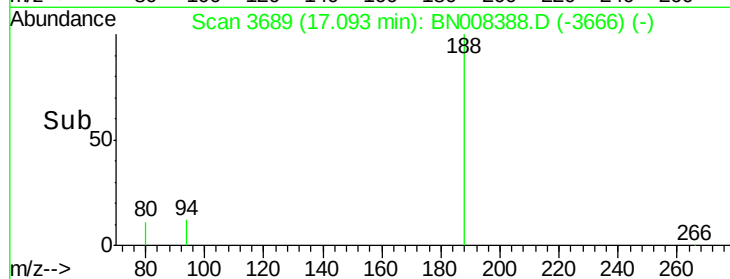
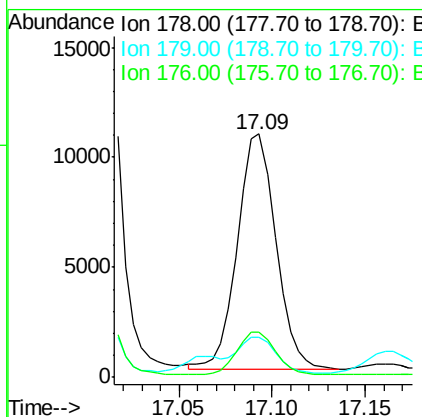
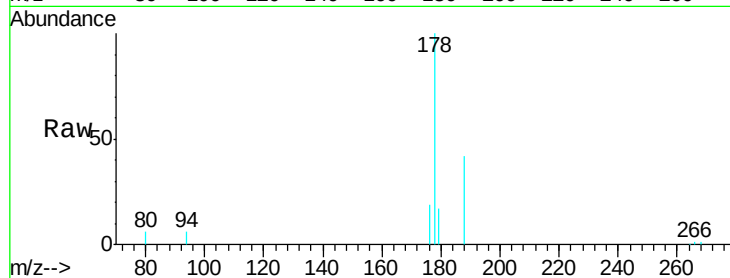
ClientSampled :

BEPC1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 15400 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.7  | 13.0  | 19.6  |
| 176       | 18.5  | 15.0  | 22.6  |

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#15

Fluoranthene

Concen: 3.789 ng/ul

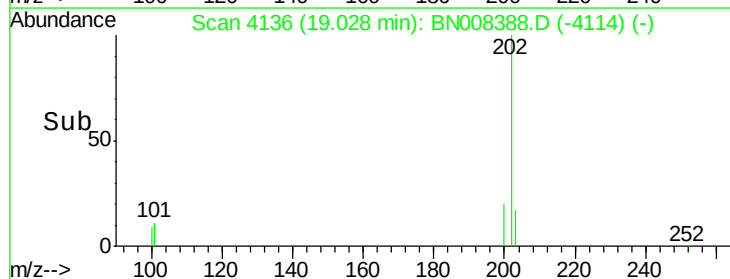
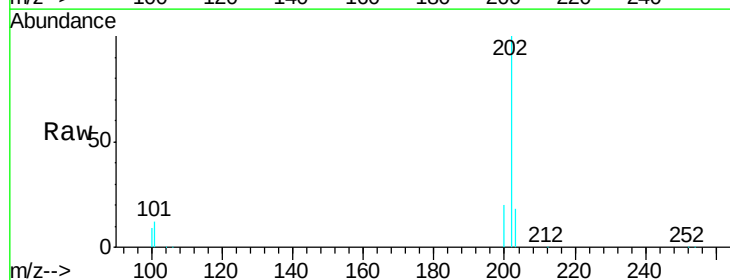
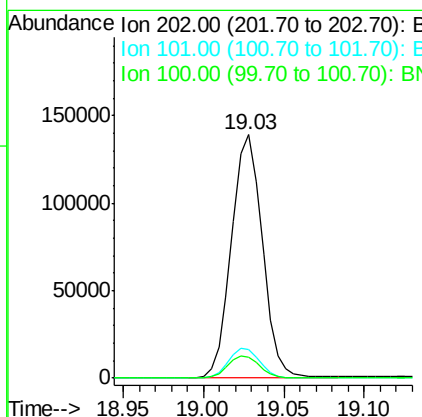
RT: 19.03 min Scan# 4136

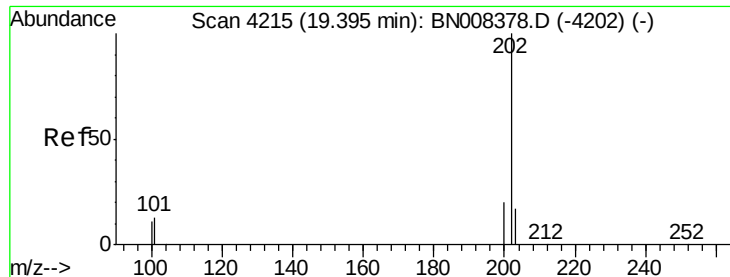
Delta R.T. 0.00 min

Lab File: BN008388.D

Acq: 24 Oct 2019 15:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 185758 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.8  | 0.0   | 31.2   |
| 100       | 8.8   | 0.0   | 28.5   |





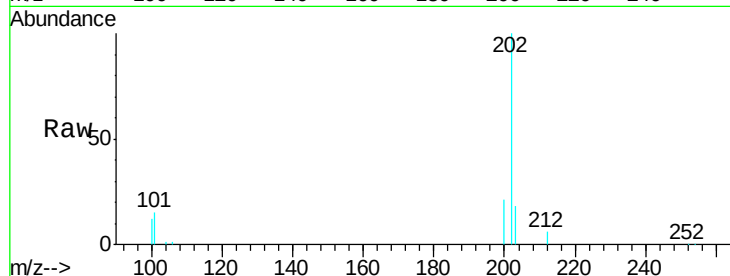
#17  
Pyrene  
Concen: 4.384 ng/ul  
RT: 19.39 min Scan# 4214  
Delta R.T. -0.00 min  
Lab File: BN008388.D  
Acq: 24 Oct 2019 15:25

Instrument :  
BNA\_N  
ClientSampleId :  
BEPC1

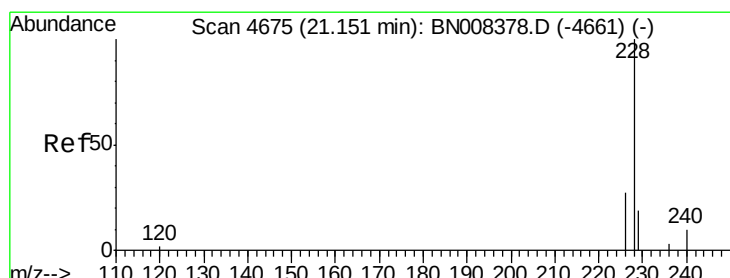
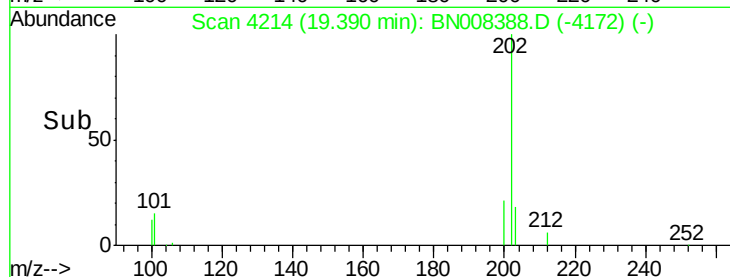
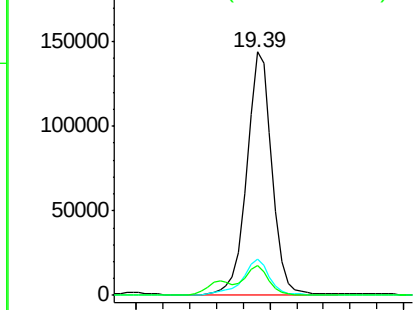
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 14.7  | 10.9       | 16.3       |
| 100     | 12.2  | 8.7        | 13.1       |

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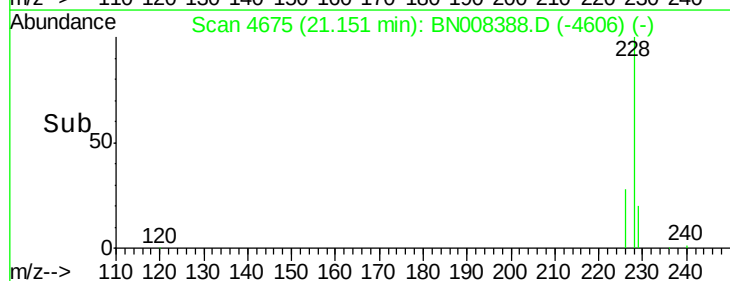
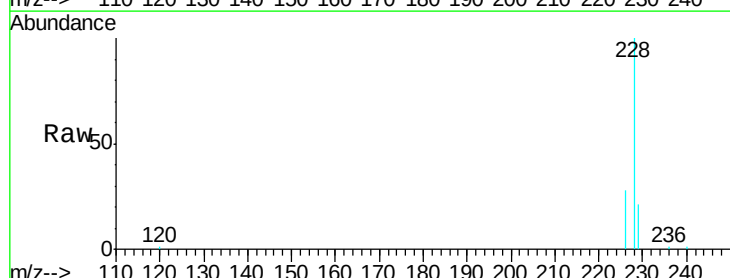
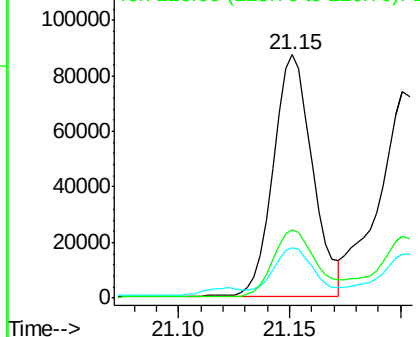
Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

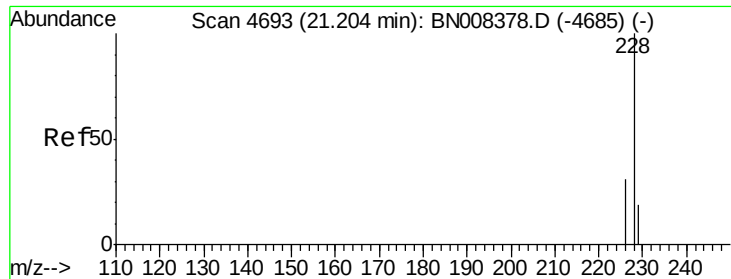


#18  
Benzo(a)anthracene  
Concen: 2.709 ng/ul  
RT: 21.15 min Scan# 4675  
Delta R.T. 0.00 min  
Lab File: BN008388.D  
Acq: 24 Oct 2019 15:25

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 20.8  | 16.2       | 24.2       |
| 226     | 28.3  | 21.4       | 32.0       |

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: 2.342 ng/ul

RT: 21.20 min Scan# 4692

Delta R.T. -0.00 min

Lab File: BN008388.D

Acq: 24 Oct 2019 15:25

Instrument :

BNA\_N

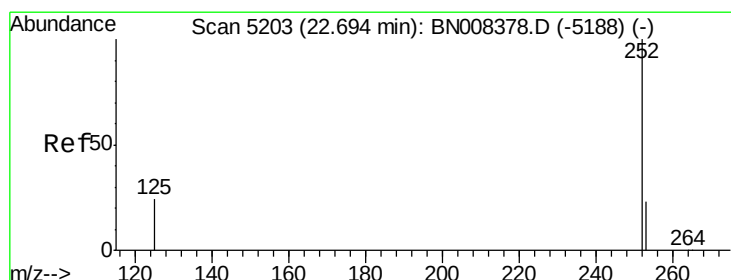
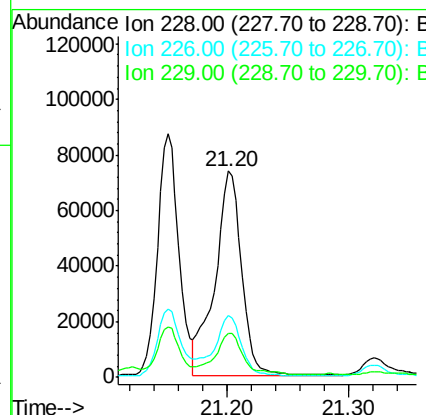
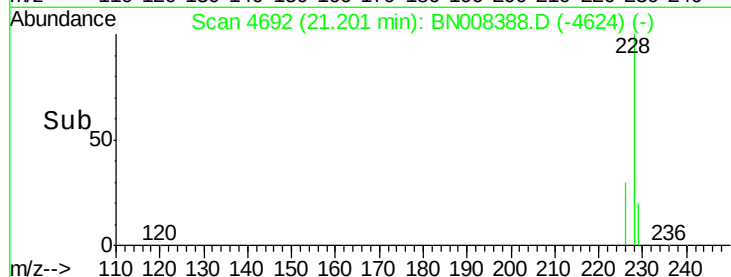
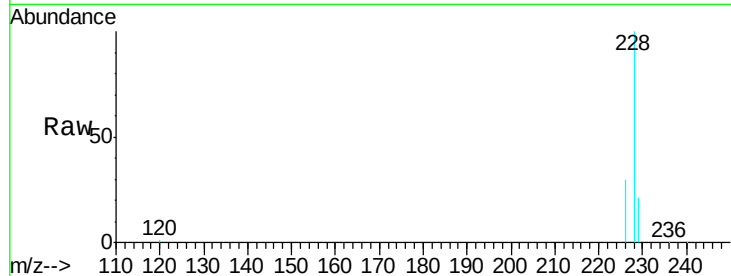
ClientSampleId :

BEPC1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 112510 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.2  | 24.1  | 36.1   |
| 229       | 21.4  | 16.2  | 24.2   |

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#21

Benzo(b)fluoranthene

Concen: 3.932 ng/ul m

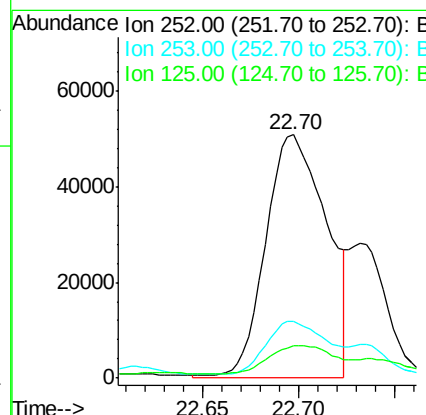
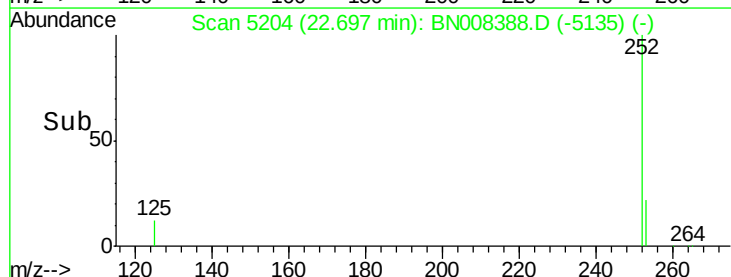
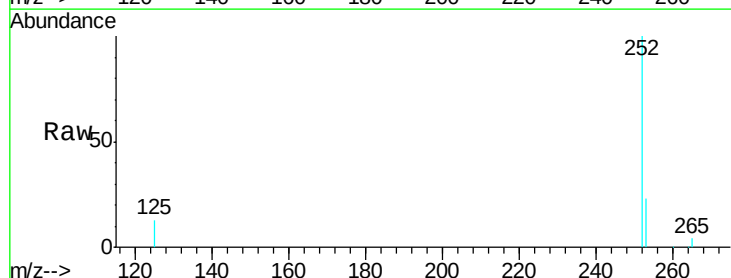
RT: 22.70 min Scan# 5204

Delta R.T. 0.00 min

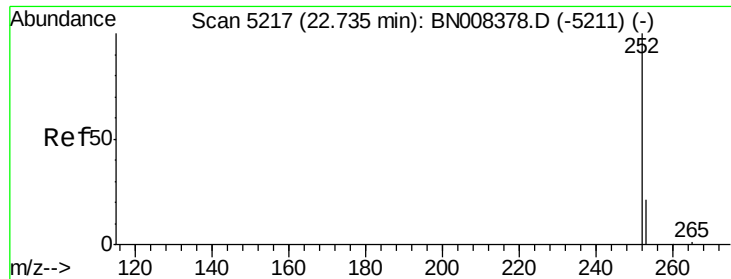
Lab File: BN008388.D

Acq: 24 Oct 2019 15:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 112992 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.2  | 0.0   | 53.4   |
| 125       | 13.2  | 0.0   | 32.4   |







#22

Benzo(k)fluoranthene

Concen: 1.274 ng/ul m

RT: 22.73 min Scan# 5216

Delta R.T. -0.00 min

Lab File: BN008388.D

Acq: 24 Oct 2019 15:25

Instrument :

BNA\_N

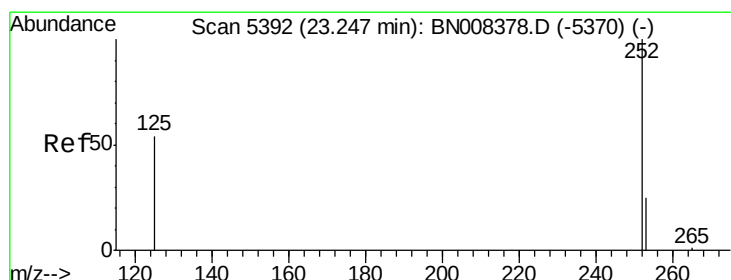
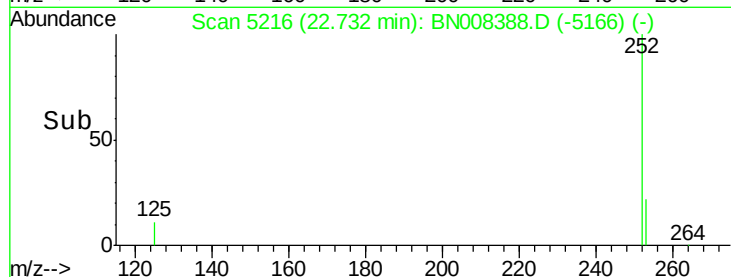
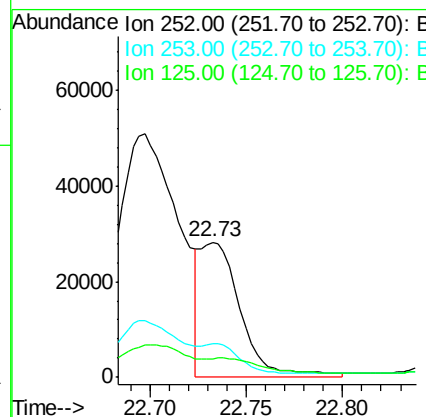
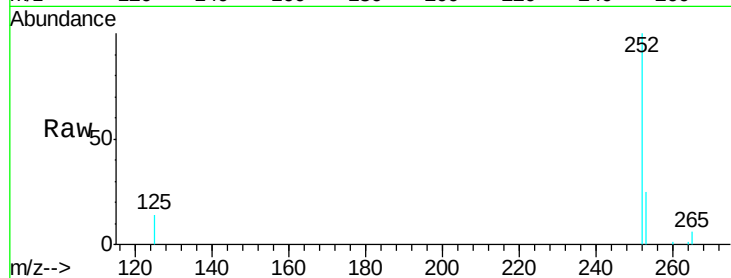
ClientSampled :

BEPC1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 41488 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.7  | 21.3  | 31.9  |
| 125       | 13.8  | 12.3  | 18.5  |

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#23

Benzo(a)pyrene

Concen: 2.576 ng/ul

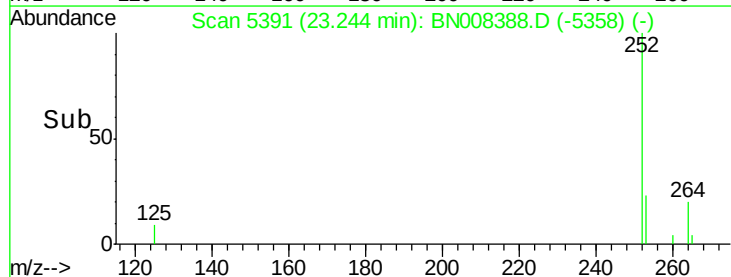
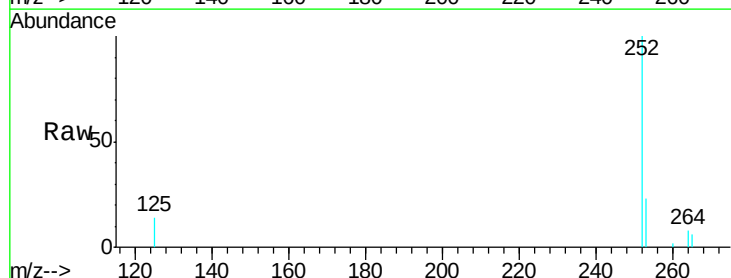
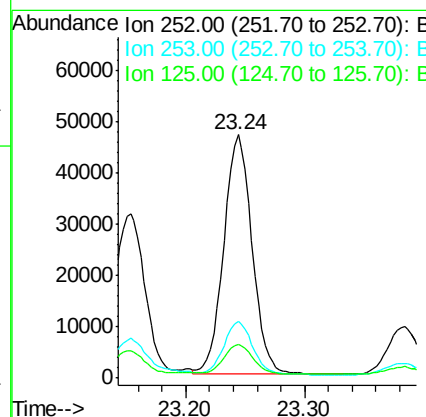
RT: 23.24 min Scan# 5391

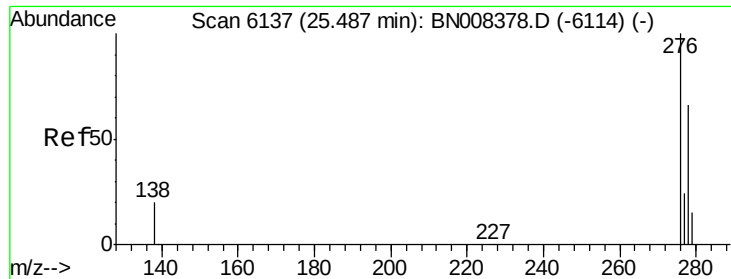
Delta R.T. -0.00 min

Lab File: BN008388.D

Acq: 24 Oct 2019 15:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 77907 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.3  | 22.8  | 34.2  |
| 125       | 13.9  | 18.4  | 27.6# |





#24

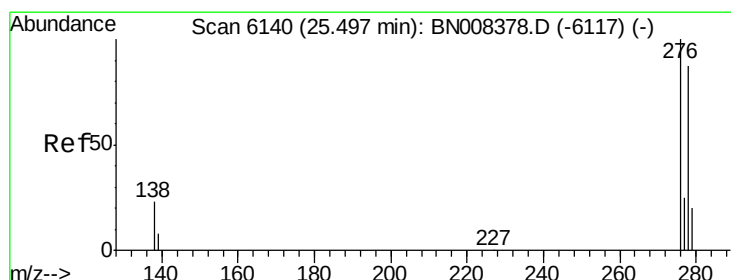
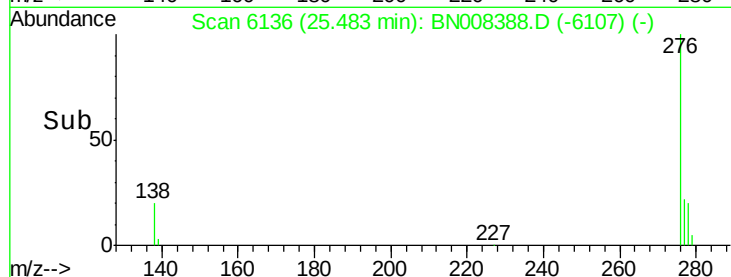
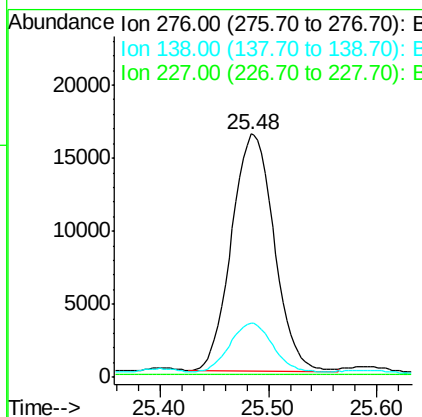
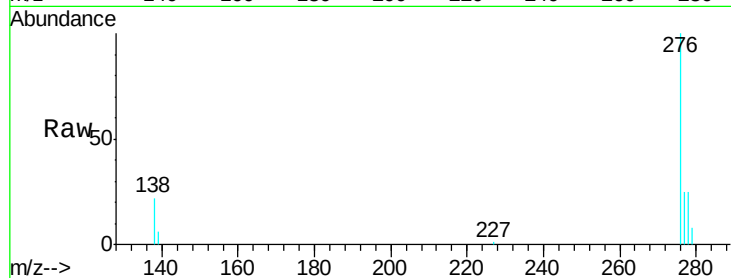
Indeno(1,2,3-cd)pyrene  
Concen: 1.249 ng/ul  
RT: 25.48 min Scan# 6136  
Delta R.T. -0.00 min  
Lab File: BN008388.D  
Acq: 24 Oct 2019 15:25

Instrument :  
BNA\_N  
ClientSampleId :  
BEPC1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.7  | 16.1  | 24.1  |
| 227     | 0.1   | 0.2   | 0.2   |

Manual Integrations  
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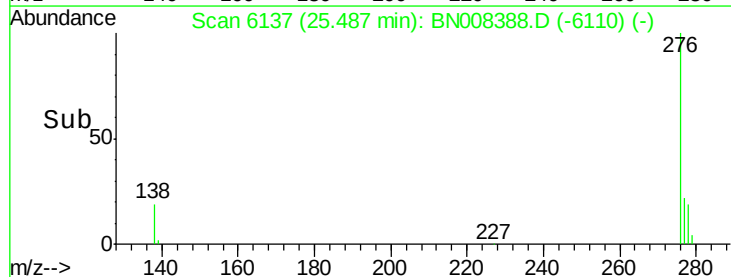
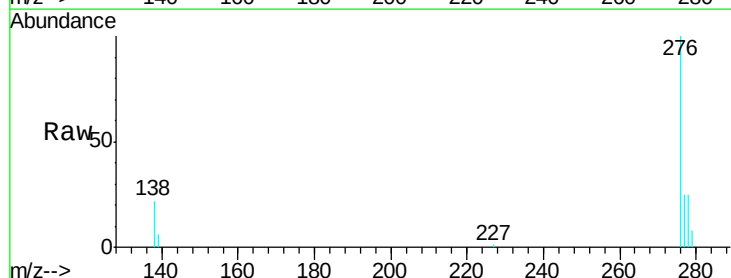
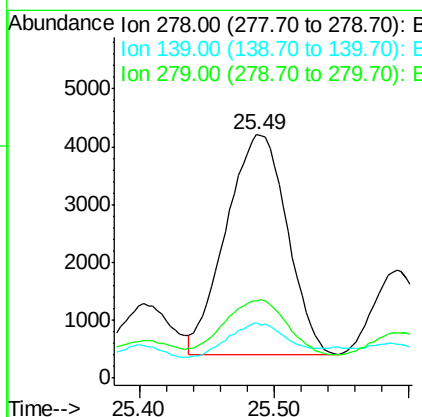
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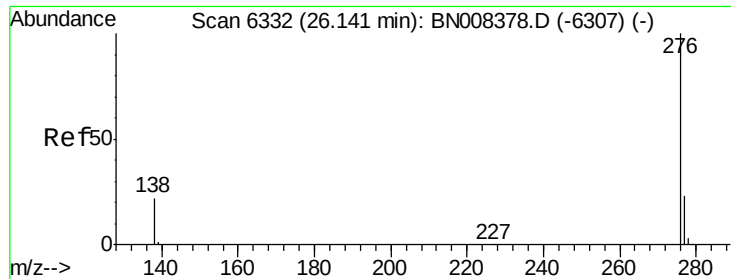


#25

Dibenzo(a,h)anthracene  
Concen: 0.425 ng/ul  
RT: 25.49 min Scan# 6137  
Delta R.T. -0.01 min  
Lab File: BN008388.D  
Acq: 24 Oct 2019 15:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 22.6  | 15.0  | 22.6  |
| 279     | 31.7  | 22.4  | 33.6  |





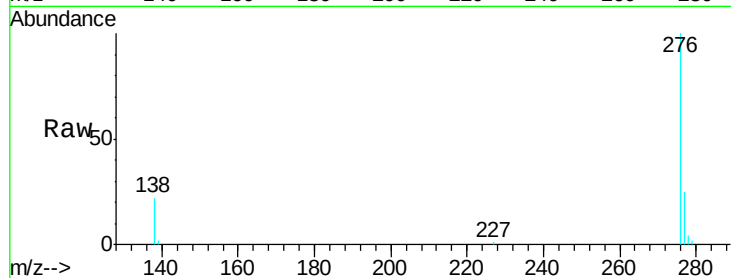
#26  
Benzo(g,h,i)perylene  
Concen: 1.353 ng/ul  
RT: 26.14 min Scan# 6332  
Delta R.T. 0.00 min  
Lab File: BN008388.D  
Acq: 24 Oct 2019 15:25

Instrument :  
BNA\_N  
ClientSampleId :  
BEPC1

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.3  | 17.0  | 25.4  |
| 277     | 24.6  | 20.4  | 30.6  |

Manual Integrations  
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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

