

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\  
 Data File : BN008116.D  
 Acq On : 12 Oct 2019 17:08  
 Operator : JU  
 Sample : K5178-07  
 Misc :  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPFO

Manual Integrations  
 APPROVED

mohammad  
 10/15/2019 7:58:51 AM

Quant Time: Oct 13 03:56:26 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 : Fri Oct 11 19:05:54 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.63  | 152  | 2234     | 0.40   | ng/ul  | -0.01    |
| 2) Naphthalene-d8           | 10.39 | 136  | 11017    | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.26 | 164  | 7162     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.01 | 188  | 16512m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.21 | 240  | 17961m   | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.40 | 264  | 18322    | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.99 | 152  | 3589     | 0.19   | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 19.04 | 212  | 12158m   | 0.21   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.44 | 128  | 746      | 0.024  | ng/ul# | 72       |
| 5) 2-Methylnaphthalene      | 12.07 | 142  | 498      | 0.023  | ng/ul  | 98       |
| 7) Acenaphthylene           | 13.98 | 152  | 2190     | 0.064  | ng/ul# | 87       |
| 11) Pentachlorophenol       | 16.68 | 266  | 167m     | 0.042  | ng/ul  |          |
| 12) Phenanthrene            | 17.05 | 178  | 14378    | 0.297  | ng/ul  | 100      |
| 13) Anthracene              | 17.14 | 178  | 2864m    | 0.067  | ng/ul  |          |
| 15) Fluoranthene            | 19.07 | 202  | 48494m   | 0.760  | ng/ul  |          |
| 17) Pyrene                  | 19.44 | 202  | 44818    | 0.627  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.19 | 228  | 23111    | 0.354  | ng/ul  | 95       |
| 19) Chrysene                | 21.24 | 228  | 31091    | 0.388  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.75 | 252  | 35770m   | 0.600  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.78 | 252  | 11768m   | 0.174  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.30 | 252  | 20765    | 0.331  | ng/ul# | 92       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.57 | 276  | 12473    | 0.169  | ng/ul# | 96       |
| 25) Dibenzo(a,h)anthracene  | 25.58 | 278  | 3086     | 0.053  | ng/ul# | 32       |
| 26) Benzo(a,h,i)perylene    | 26.24 | 276  | 14137    | 0.209  | ng/ul# | 90       |

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

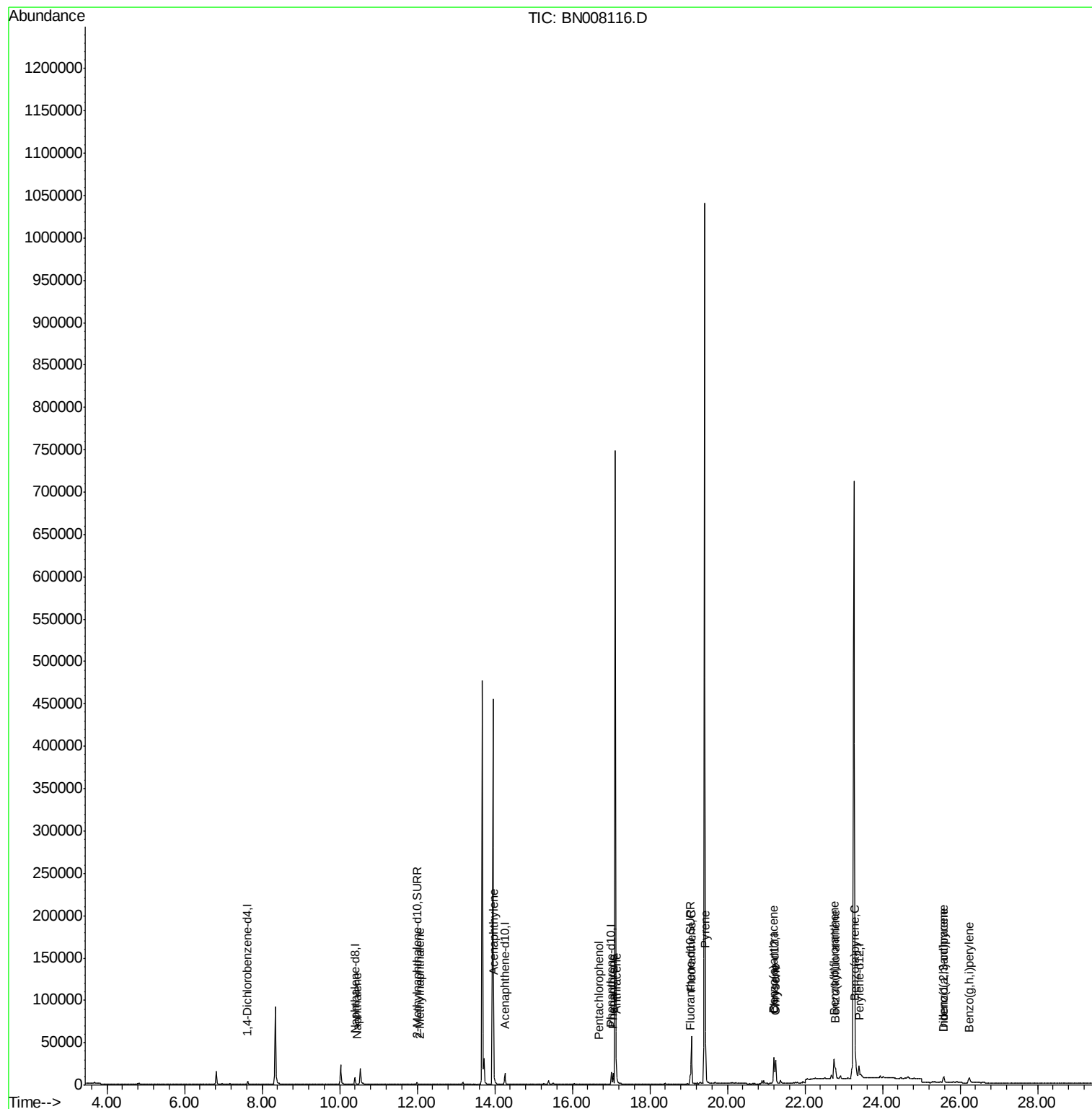
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\  
Data File : BN008116.D  
Acq On : 12 Oct 2019 17:08  
Operator : JU  
Sample : K5178-07  
Misc :  
ALS Vial : 49 Sample Multiplier: 1

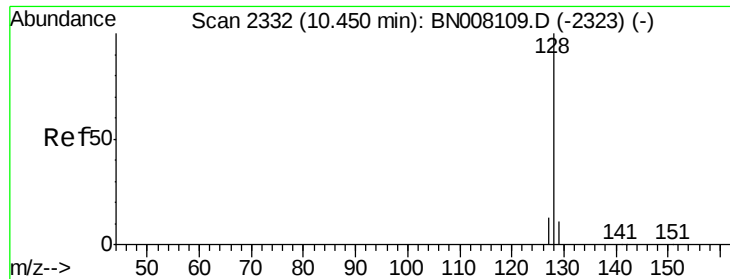
Instrument :  
BNA\_N  
ClientSampleId :  
BEPF0

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Quant Time: Oct 13 03:56:26 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 : Fri Oct 11 19:05:54 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.024 ng/ul

RT: 10.44 min Scan# 2331

Delta R.T. -0.01 min

Lab File: BN008116.D

Acq: 12 Oct 2019 17:08

Instrument :

BNA\_N

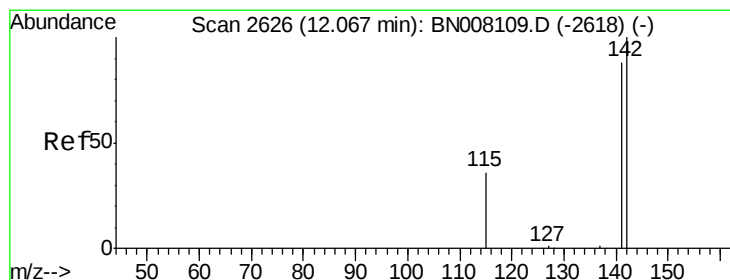
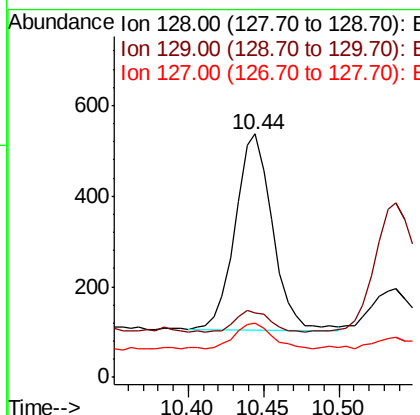
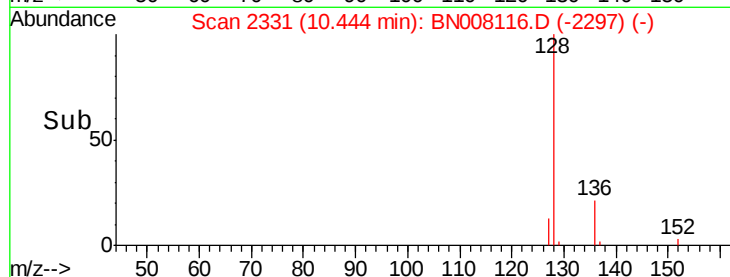
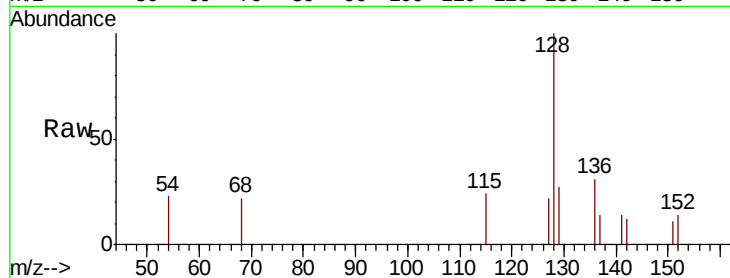
ClientSampleId :

BEPFO

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 746   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 26.6  | 9.8   | 14.8# |
| 127      | 22.2  | 11.1  | 16.7# |

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#5

2-Methylnaphthalene

Concen: 0.023 ng/ul

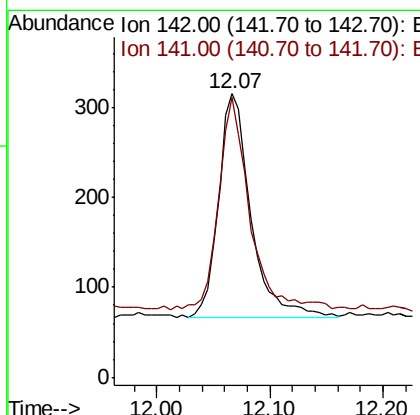
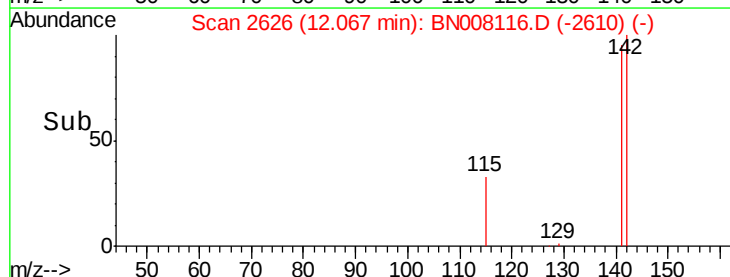
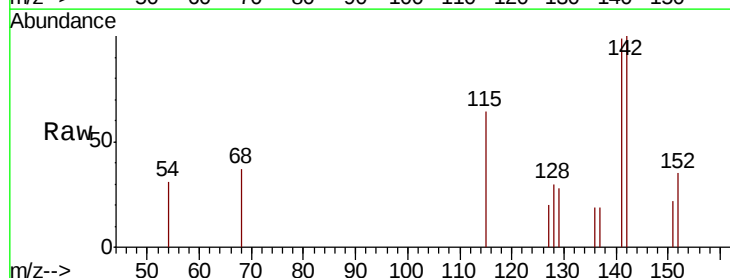
RT: 12.07 min Scan# 2626

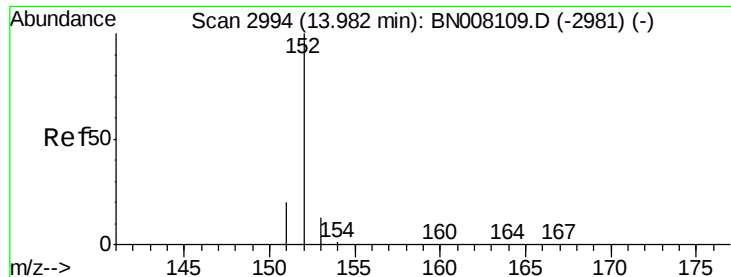
Delta R.T. -0.01 min

Lab File: BN008116.D

Acq: 12 Oct 2019 17:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 498   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 91.4  | 71.4  | 107.2 |





#7

Acenaphthylene

Concen: 0.064 ng/ul

RT: 13.98 min Scan# 2993

Delta R.T. -0.01 min

Lab File: BN008116.D

Acq: 12 Oct 2019 17:08

Instrument :

BNA\_N

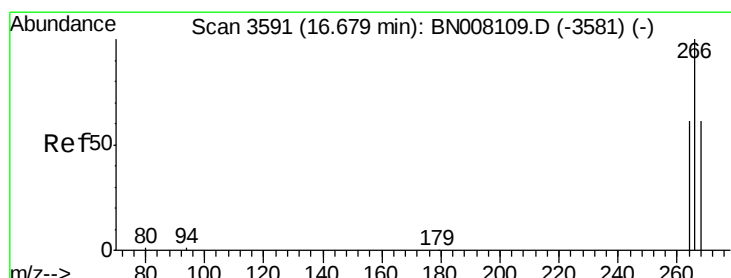
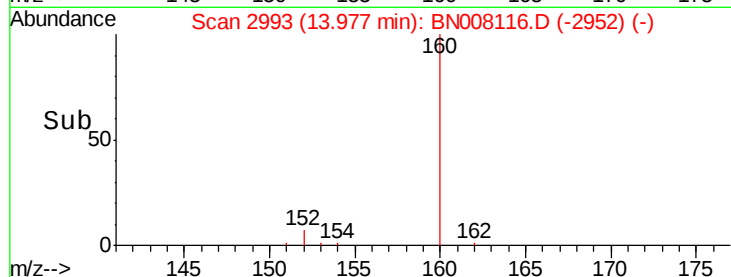
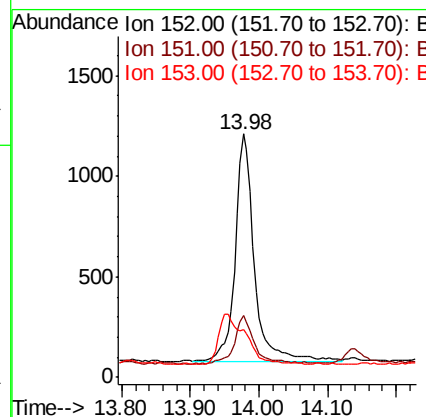
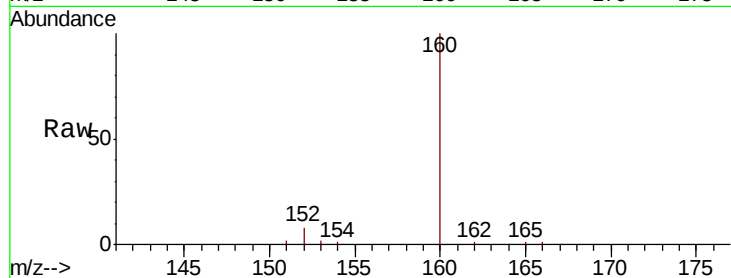
ClientSampleId :

BEPFO

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 2190  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 25.7  | 16.2  | 24.4# |
| 153       | 19.9  | 11.0  | 16.4# |

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#11

Pentachlorophenol

Concen: 0.042 ng/ul m

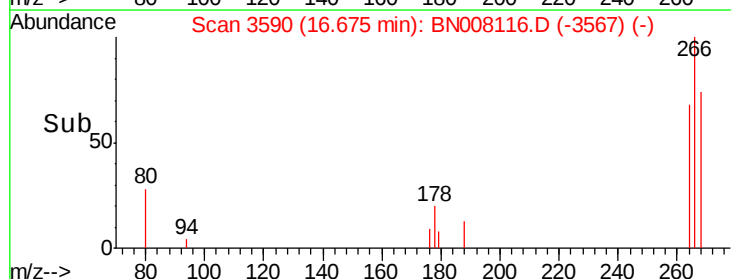
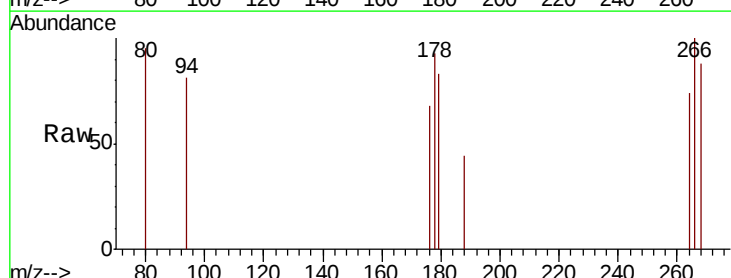
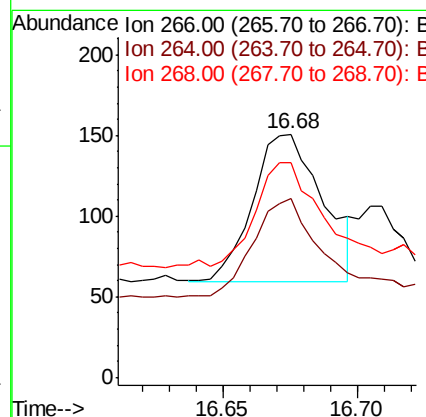
RT: 16.68 min Scan# 3590

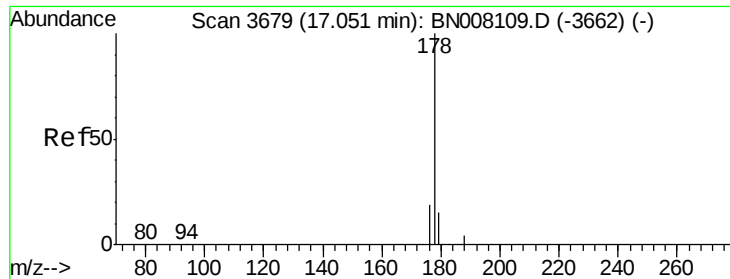
Delta R.T. -0.00 min

Lab File: BN008116.D

Acq: 12 Oct 2019 17:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 167   |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 0.0   | 50.1  | 75.1# |
| 268       | 2.4   | 51.9  | 77.9# |





#12

Phenanthrene

Concen: 0.297 ng/ul

RT: 17.05 min Scan# 3678

Delta R.T. -0.01 min

Lab File: BN008116.D

Acq: 12 Oct 2019 17:08

Instrument :

BNA\_N

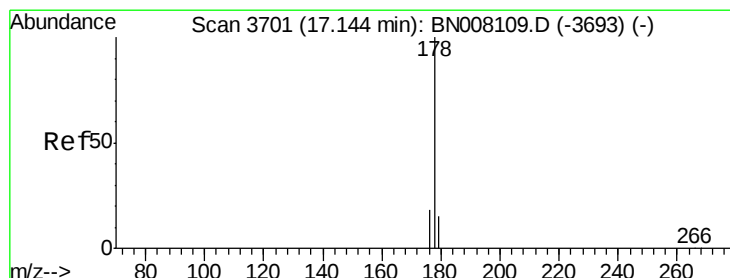
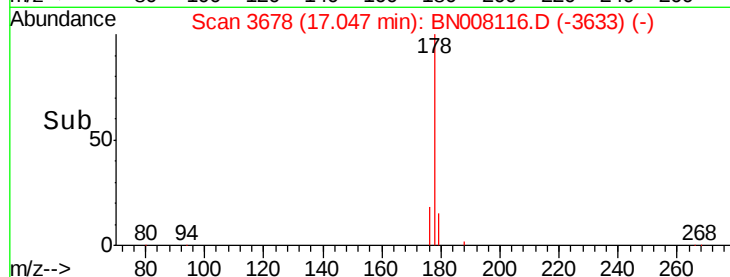
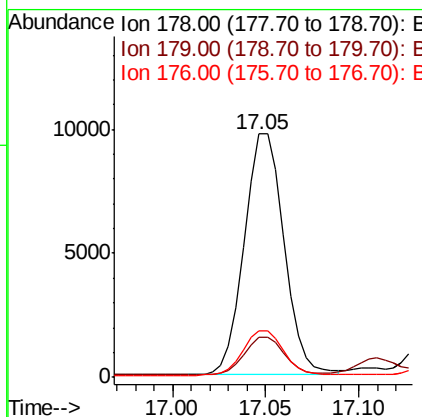
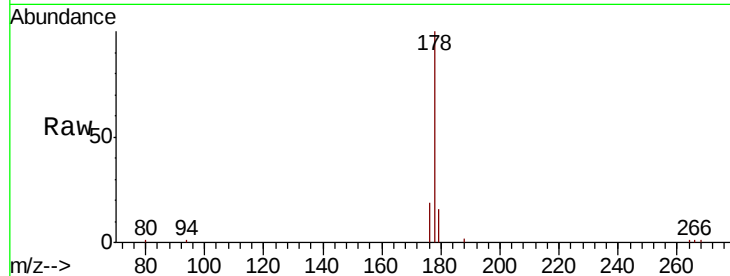
ClientSampleId :

BEPF0

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 14378     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 16.2  | 12.8 19.2 |
| 176         | 19.2  | 15.4 23.2 |

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#13

Anthracene

Concen: 0.067 ng/ul m

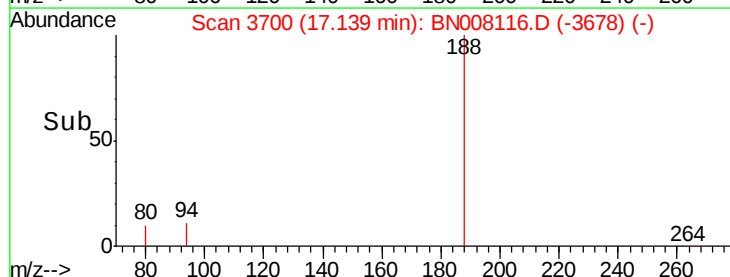
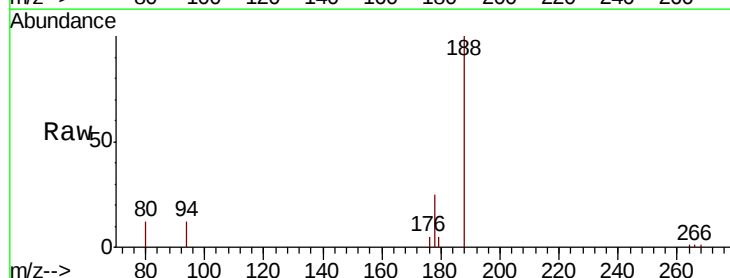
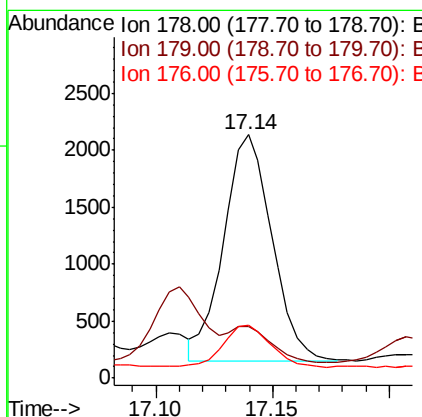
RT: 17.14 min Scan# 3700

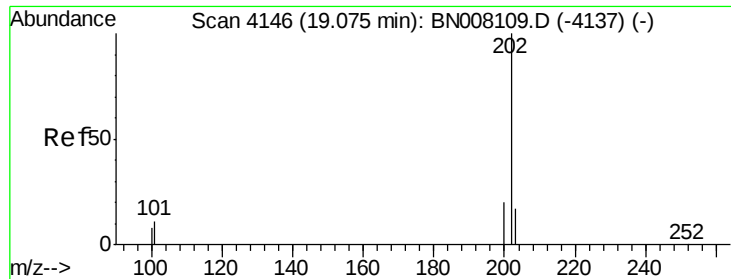
Delta R.T. -0.01 min

Lab File: BN008116.D

Acq: 12 Oct 2019 17:08

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:178 | Resp: | 2864       |
| Ion Ratio   | Lower | Upper      |
| 178         | 100   |            |
| 179         | 21.0  | 13.0 19.6# |
| 176         | 21.6  | 15.0 22.6  |





#15

Fluoranthene

Concen: 0.760 ng/ul m

RT: 19.07 min Scan# 4146

Delta R.T. -0.00 min

Lab File: BN008116.D

Acq: 12 Oct 2019 17:08

Instrument :

BNA\_N

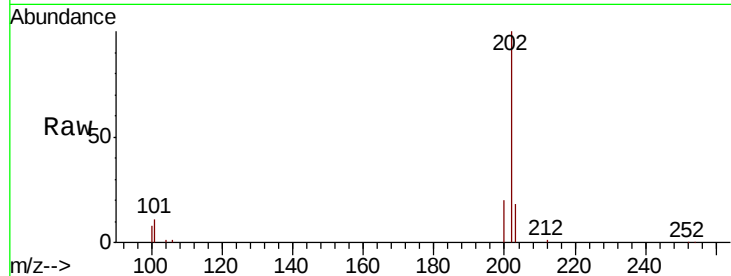
ClientSampleId :

BEPF0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 48494 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.7  | 0.0   | 31.2  |
| 100       | 8.0   | 0.0   | 28.5  |

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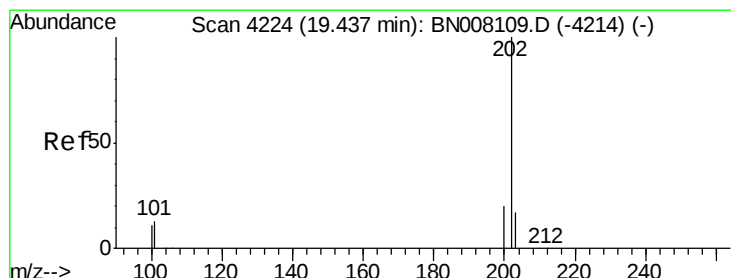
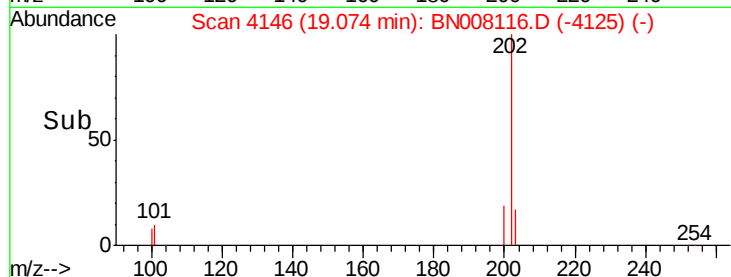
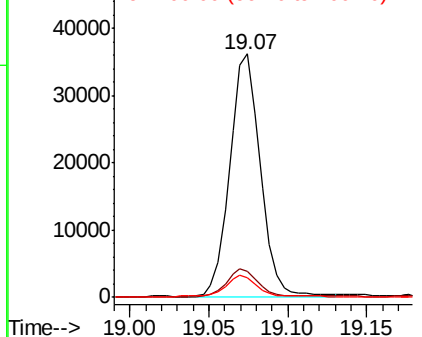


Abundance

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



#17

Pyrene

Concen: 0.627 ng/ul

RT: 19.44 min Scan# 4224

Delta R.T. -0.00 min

Lab File: BN008116.D

Acq: 12 Oct 2019 17:08

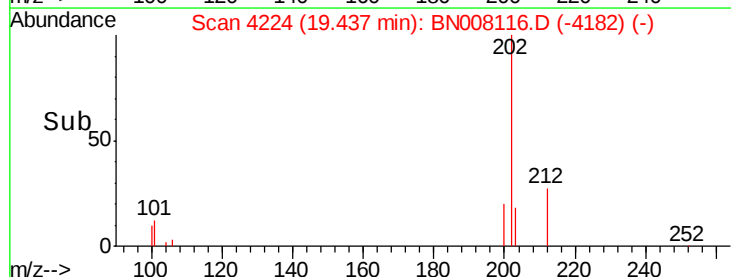
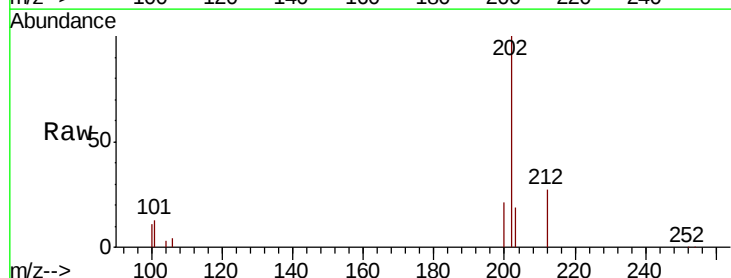
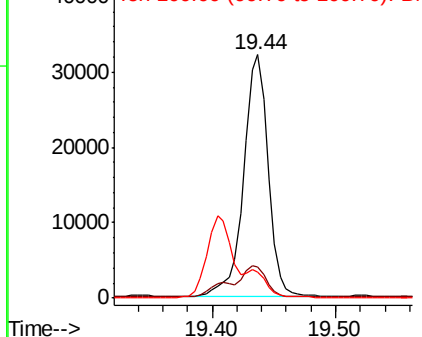
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 44818 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.7  | 10.9  | 16.3  |
| 100       | 10.6  | 8.7   | 13.1  |

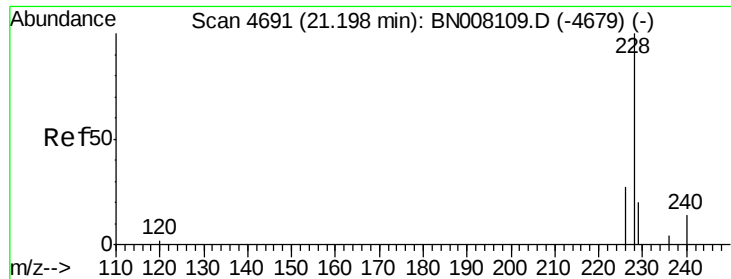
Abundance

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





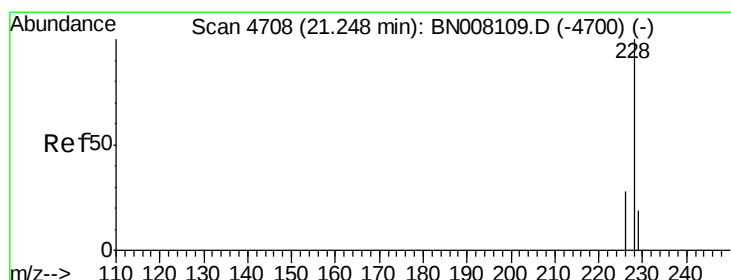
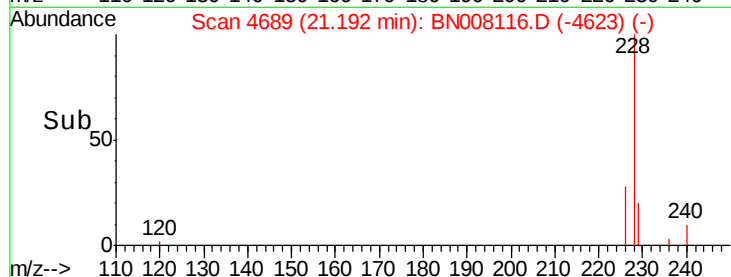
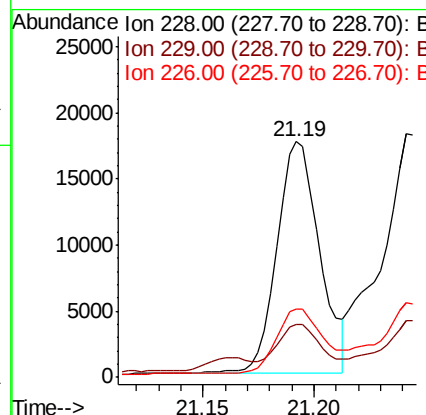
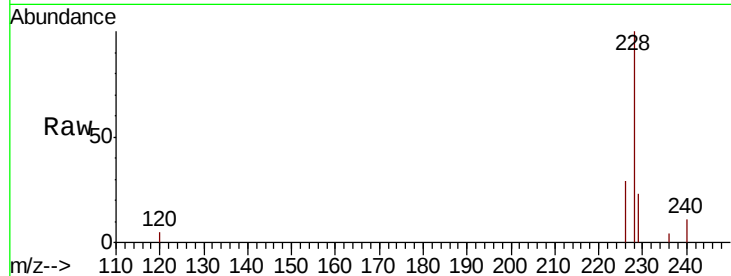
#18  
Benzo(a)anthracene  
Concen: 0.354 ng/ul  
RT: 21.19 min Scan# 4689  
Delta R.T. -0.01 min  
Lab File: BN008116.D  
Acq: 12 Oct 2019 17:08

Instrument :  
BNA\_N  
ClientSampleId :  
BEPF0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.6  | 16.2  | 24.2  |
| 226     | 29.1  | 21.4  | 32.0  |

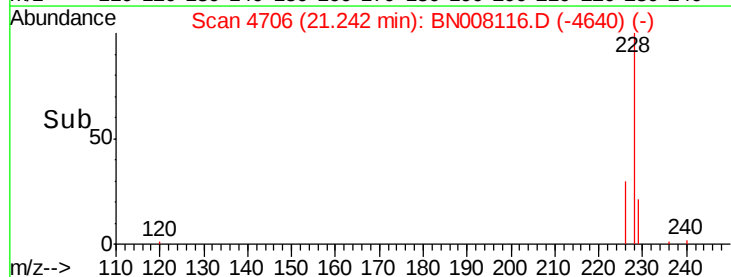
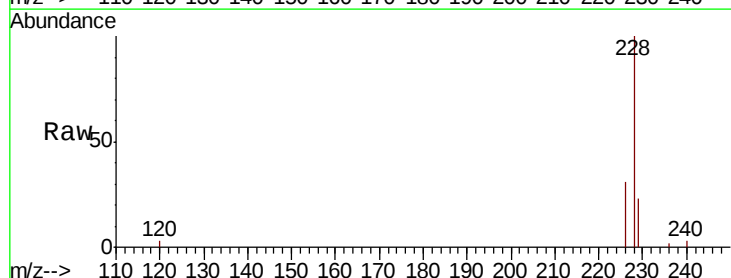
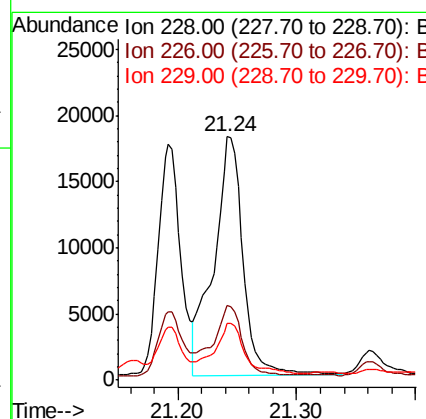
Manual Integrations  
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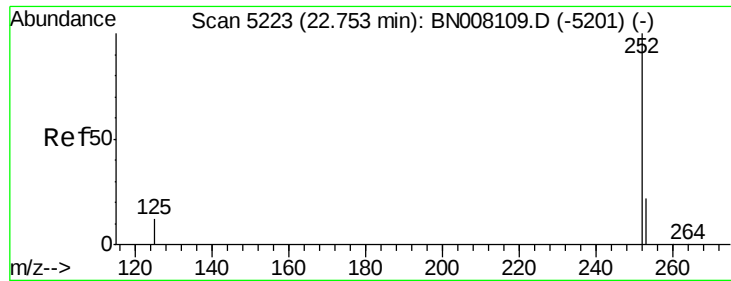
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#19  
Chrysene  
Concen: 0.388 ng/ul  
RT: 21.24 min Scan# 4706  
Delta R.T. -0.01 min  
Lab File: BN008116.D  
Acq: 12 Oct 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.8  | 24.1  | 36.1  |
| 229     | 23.1  | 16.2  | 24.2  |





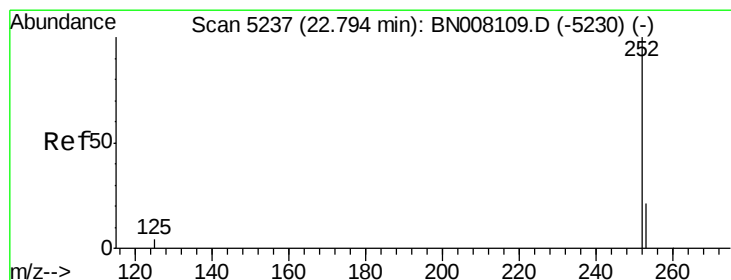
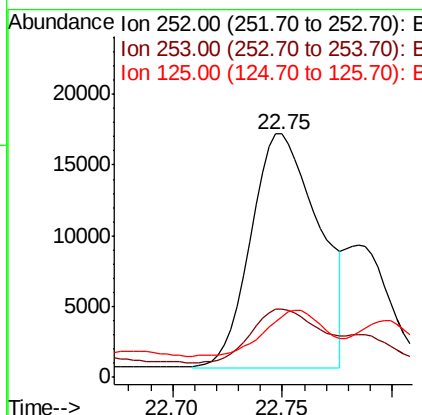
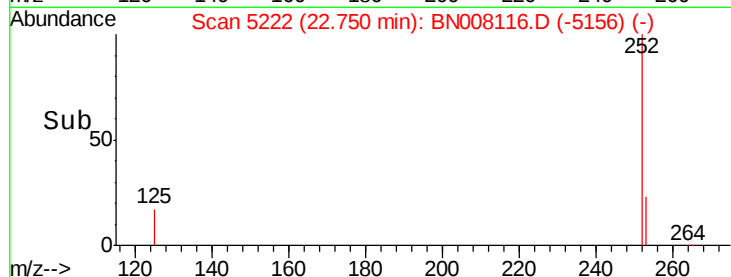
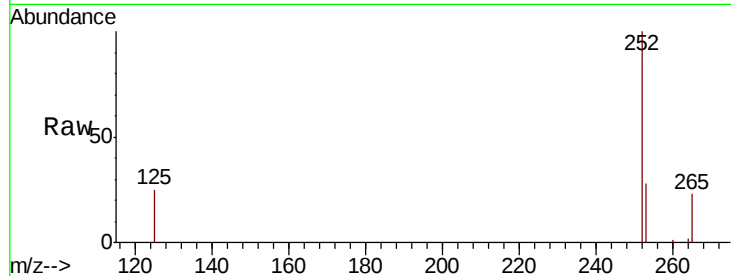
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Benzo(b)fluoranthene  
Concen: 0.600 ng/ul m  
RT: 22.75 min Scan# 5222  
Delta R.T. -0.01 min  
Lab File: BN008116.D  
Acq: 12 Oct 2019 17:08

Instrument :  
BNA\_N  
ClientSampleId :  
BEPF0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.1  | 0.0   | 53.4  |
| 125     | 24.8  | 0.0   | 32.4  |

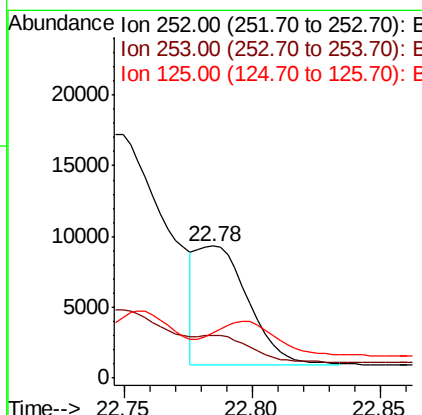
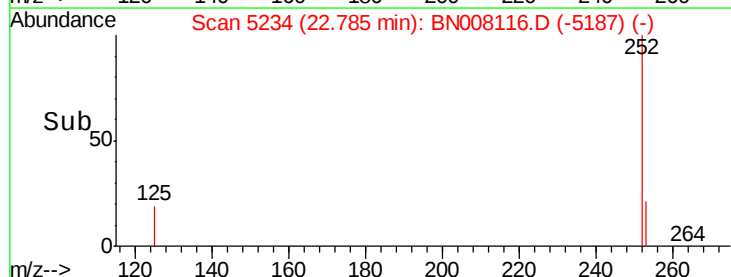
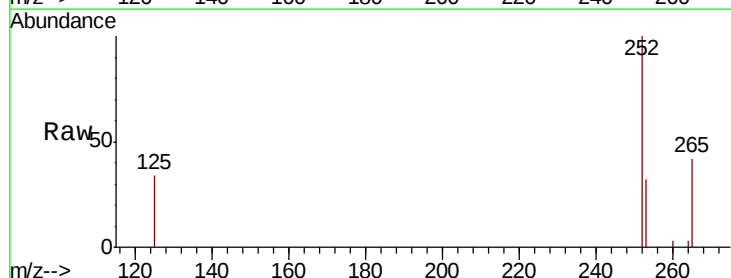
Manual Integrations  
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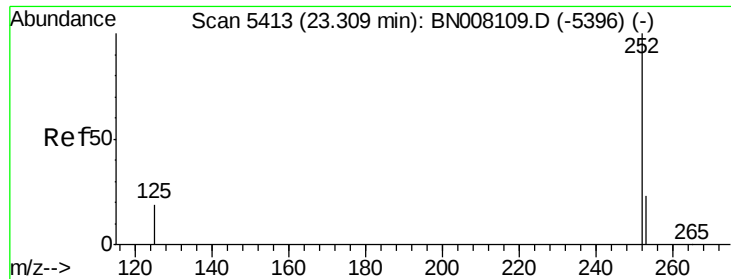
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10/15/2019 7:58:51 AM



#22  
Benzo(k)fluoranthene  
Concen: 0.174 ng/ul m  
RT: 22.78 min Scan# 5234  
Delta R.T. -0.01 min  
Lab File: BN008116.D  
Acq: 12 Oct 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 32.2  | 21.3  | 31.9# |
| 125     | 33.9  | 12.3  | 18.5# |





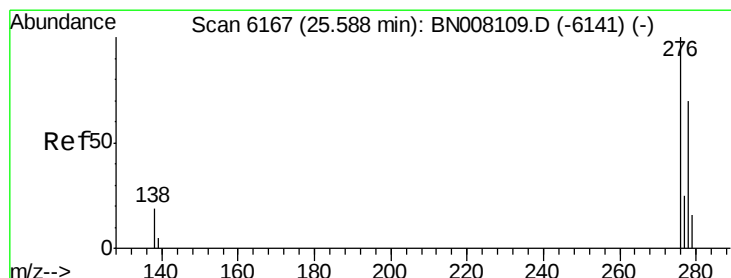
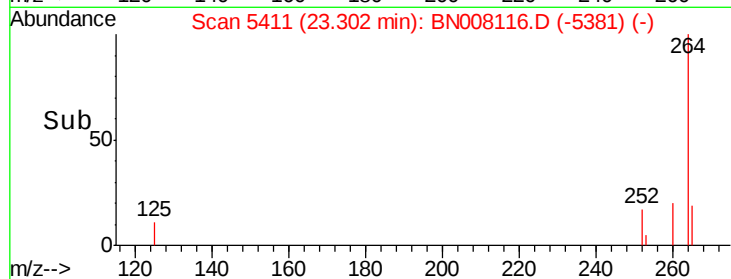
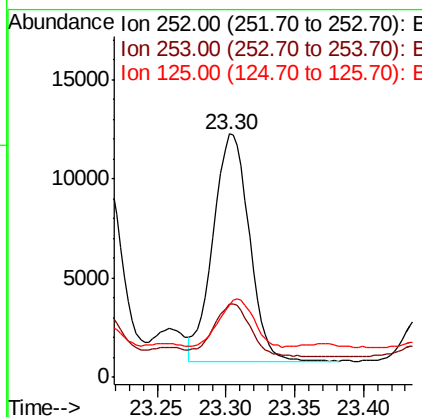
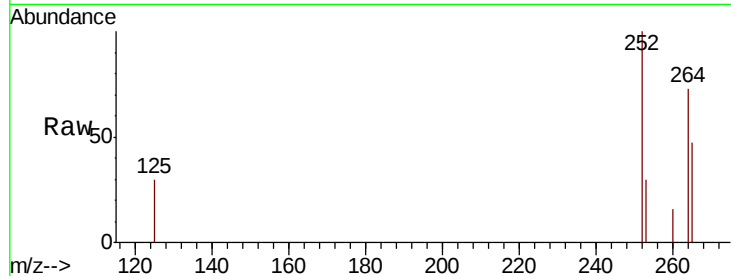
#23  
Benzo(a)pyrene  
Concen: 0.331 ng/u1  
RT: 23.30 min Scan# 5411  
Delta R.T. -0.01 min  
Lab File: BN008116.D  
Acq: 12 Oct 2019 17:08

Instrument :  
BNA\_N  
ClientSampleId :  
BEPF0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.3  | 22.8  | 34.2  |
| 125     | 29.7  | 18.4  | 27.6# |

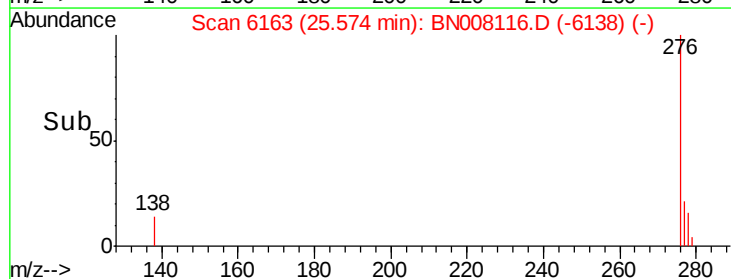
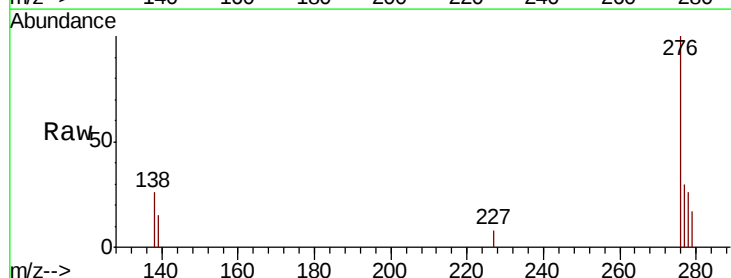
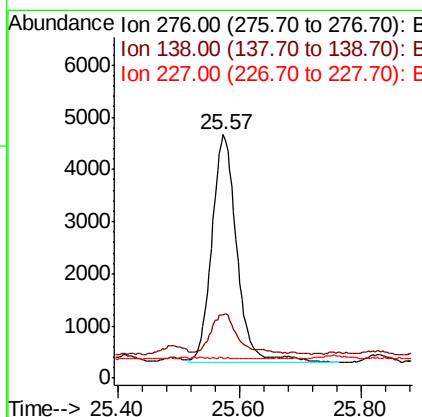
Manual Integrations  
APPROVED

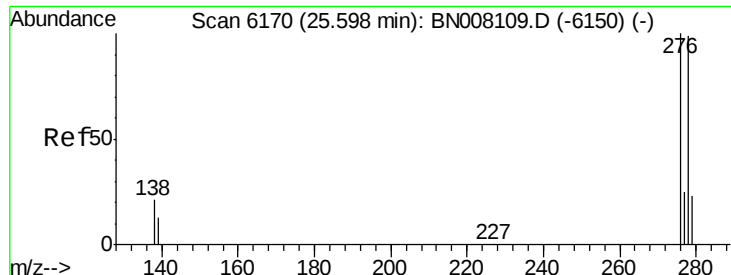
mohammad  
10/15/2019 7:58:51 AM



#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.169 ng/u1  
RT: 25.57 min Scan# 6163  
Delta R.T. -0.02 min  
Lab File: BN008116.D  
Acq: 12 Oct 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.3  | 16.1  | 24.1  |
| 227     | 0.1   | 0.2   | 0.2#  |





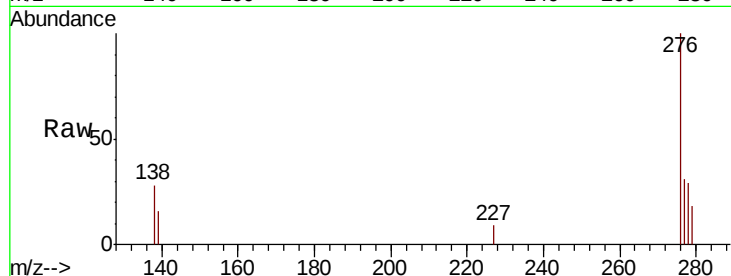
#25  
Dibenzo(a,h)anthracene  
Concen: 0.053 ng/u1  
RT: 25.58 min Scan# 6165  
Delta R.T. -0.02 min  
Lab File: BN008116.D  
Acq: 12 Oct 2019 17:08

Instrument :  
BNA\_N  
ClientSampleId :  
BEPF0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 53.5  | 15.0  | 22.6# |
| 279     | 60.5  | 22.4  | 33.6# |

Manual Integrations  
APPROVED

mohammad  
10/15/2019 7:58:51 AM

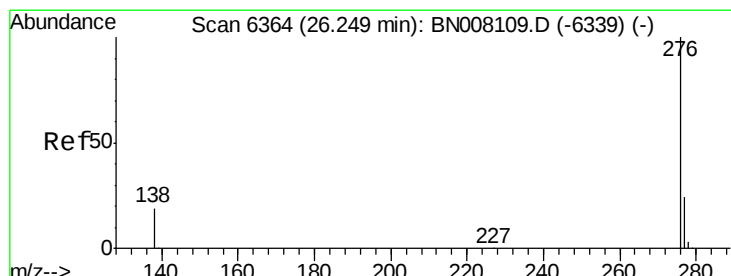
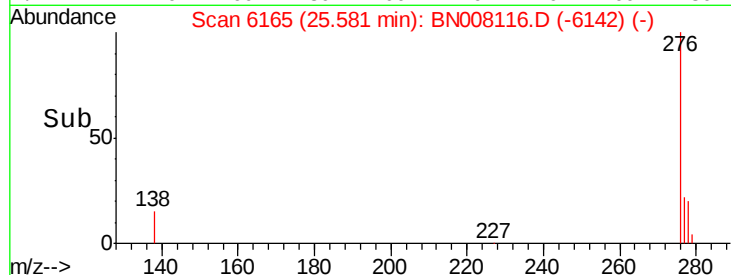
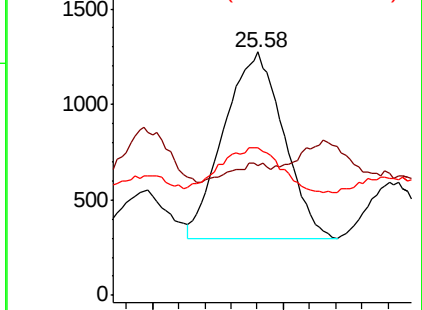


Abundance

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: 0.209 ng/u1  
RT: 26.24 min Scan# 6361  
Delta R.T. -0.01 min  
Lab File: BN008116.D  
Acq: 12 Oct 2019 17:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.2  | 17.0  | 25.4# |
| 277     | 29.1  | 20.4  | 30.6  |

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

