

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101419\  
 Data File : BN008183.D  
 Acq On : 15 Oct 2019 21:01  
 Operator : JU  
 Sample : K5175-11  
 Misc :  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPF8

Manual Integrations  
 APPROVED

mohammad  
 10/16/2019 4:08:24 PM

Quant Time: Oct 16 04:34:35 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 : Tue Oct 15 15:13:35 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.61  | 152  | 2324     | 0.40   | ng/ul  | -0.01    |
| 2) Naphthalene-d8           | 10.38 | 136  | 11357    | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.25 | 164  | 7210     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.00 | 188  | 16693m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.20 | 240  | 16483m   | 0.40   | ng/ul  | -0.01    |
| 20) Perylene-d12            | 23.38 | 264  | 15171m   | 0.40   | ng/ul  | -0.02    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.98 | 152  | 4591     | 0.24   | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 19.03 | 212  | 15851m   | 0.27   | ng/ul  | -0.01    |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.43 | 128  | 4801     | 0.148  | ng/ul  | 98       |
| 5) 2-Methylnaphthalene      | 12.06 | 142  | 2521     | 0.114  | ng/ul  | 98       |
| 7) Acenaphthylene           | 13.96 | 152  | 24501    | 0.713  | ng/ul  | 100      |
| 8) Acenaphthene             | 14.31 | 153  | 8053     | 0.302  | ng/ul  | 98       |
| 9) Fluorene                 | 15.30 | 166  | 11357    | 0.375  | ng/ul  | 97       |
| 11) Pentachlorophenol       | 16.66 | 266  | 110m     | 0.027  | ng/ul  |          |
| 12) Phenanthrene            | 17.04 | 178  | 267740m  | 5.478  | ng/ul  |          |
| 13) Anthracene              | 17.13 | 178  | 58682m   | 1.364  | ng/ul  |          |
| 15) Fluoranthene            | 19.06 | 202  | 795958m  | 12.331 | ng/ul  |          |
| 17) Pyrene                  | 19.43 | 202  | 792461   | 12.075 | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.18 | 228  | 509967m  | 8.510  | ng/ul  |          |
| 19) Chrysene                | 21.23 | 228  | 532973   | 7.247  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.73 | 252  | 595836m  | 12.065 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.77 | 252  | 214058m  | 3.826  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.29 | 252  | 423691   | 8.153  | ng/ul# | 83       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.54 | 276  | 231821   | 3.787  | ng/ul  | 99       |
| 25) Dibenzo(a,h)anthracene  | 25.55 | 278  | 62568    | 1.293  | ng/ul  | 98       |
| 26) Benzo(g,h,i)perylene    | 26.21 | 276  | 182681   | 3.255  | ng/ul  | 98       |

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

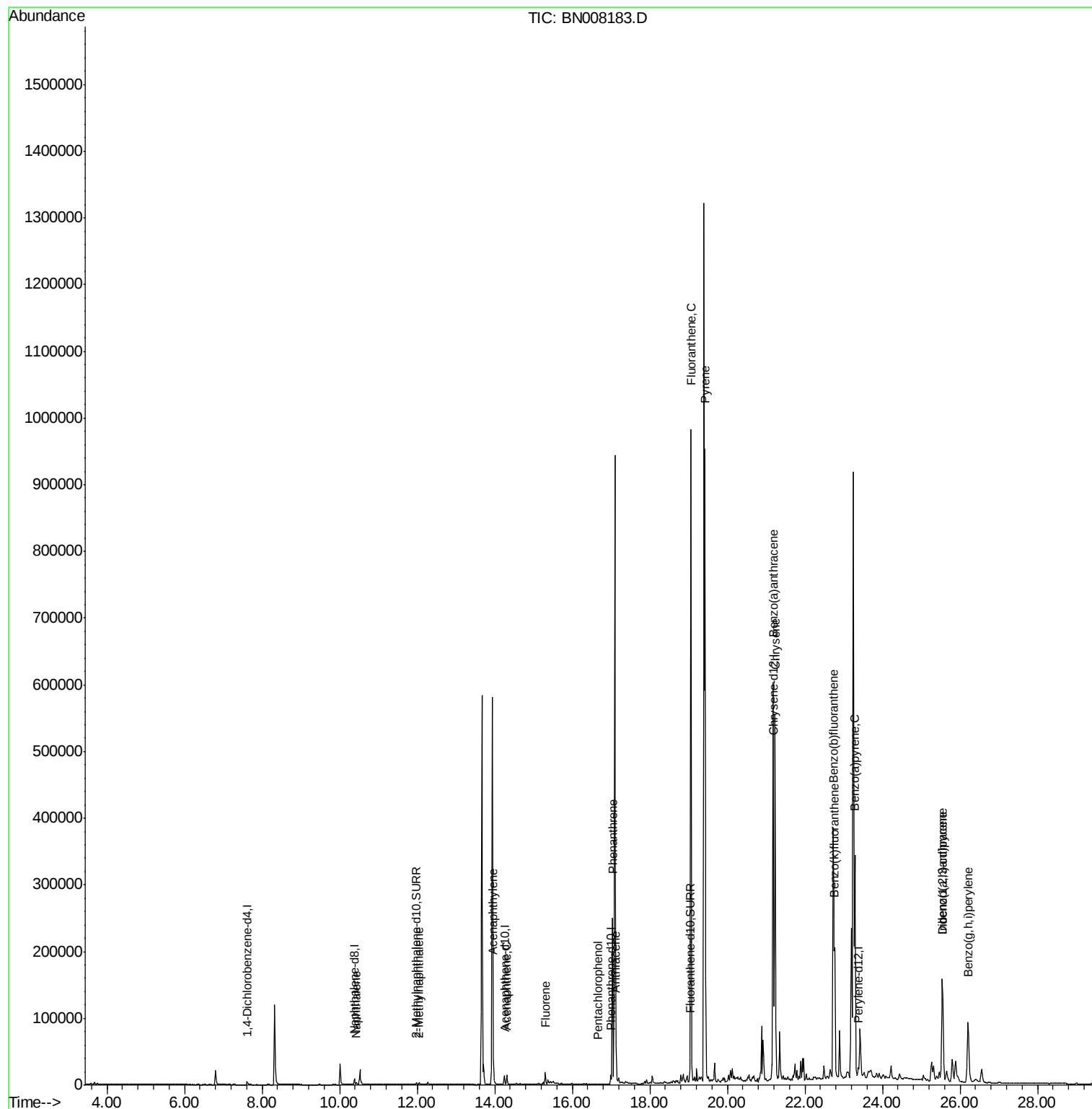
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101419\  
Data File : BN008183.D  
Acq On : 15 Oct 2019 21:01  
Operator : JU  
Sample : K5175-11  
Misc :  
ALS Vial : 50 Sample Multiplier: 1

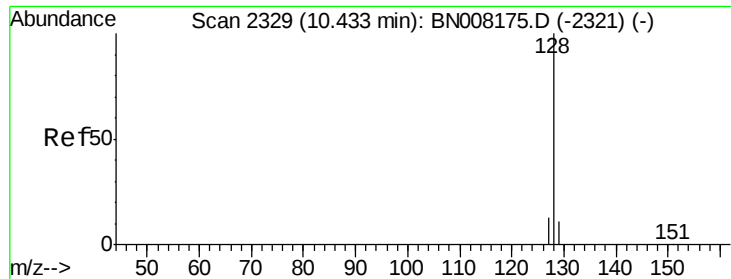
Instrument :  
BNA\_N  
ClientSampleId :  
BEPF8

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Quant Time: Oct 16 04:34:35 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 : Tue Oct 15 15:13:35 2019  
Response via : Initial Calibration





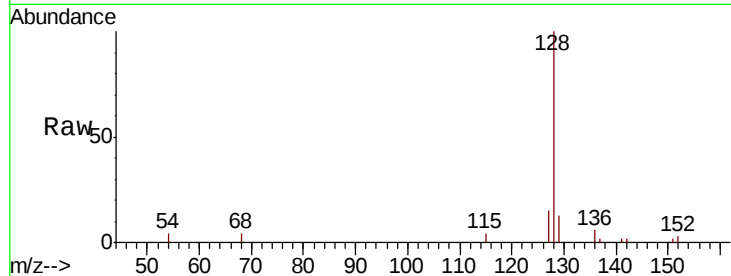
#3  
Naphthalene  
Concen: 0.148 ng/ul  
RT: 10.43 min Scan# 2328  
Delta R.T. -0.01 min  
Lab File: BN008183.D  
Acq: 15 Oct 2019 21:01

Instrument :  
BNA\_N  
ClientSampleId :  
BEPF8

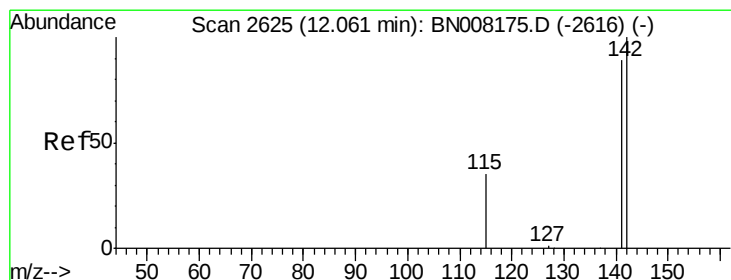
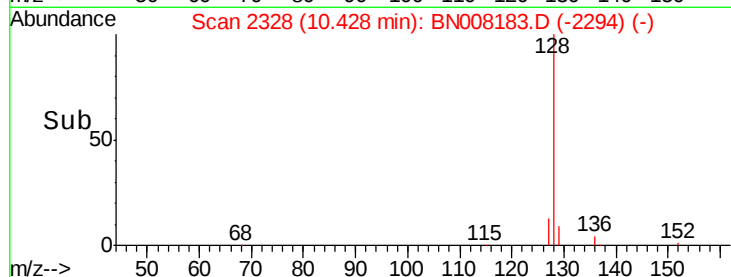
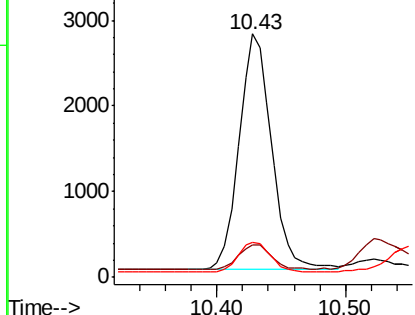
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 13.2  | 9.8   | 14.8  |
| 127     | 14.6  | 11.1  | 16.7  |

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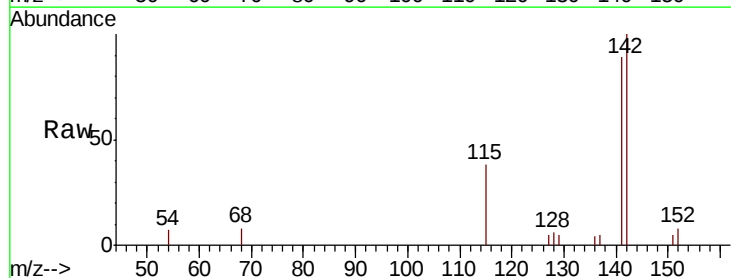


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

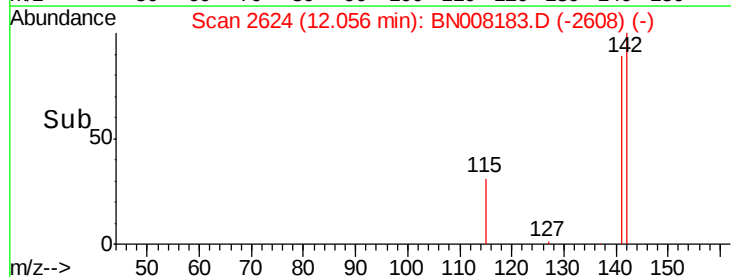
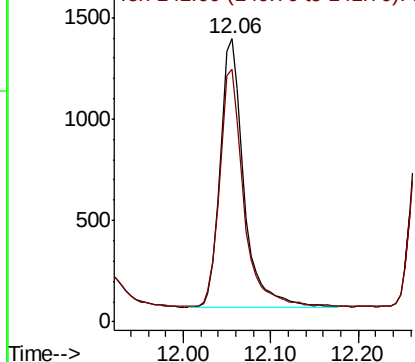


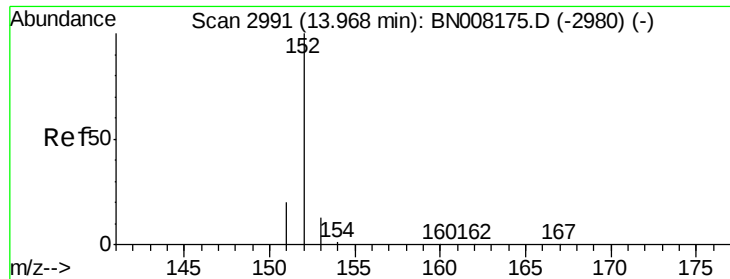
#5  
2-Methylnaphthalene  
Concen: 0.114 ng/ul  
RT: 12.06 min Scan# 2624  
Delta R.T. -0.01 min  
Lab File: BN008183.D  
Acq: 15 Oct 2019 21:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.8  | 71.4  | 107.2 |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.713 ng/ul

RT: 13.96 min Scan# 2990

Delta R.T. -0.01 min

Lab File: BN008183.D

Acq: 15 Oct 2019 21:01

Instrument :

BNA\_N

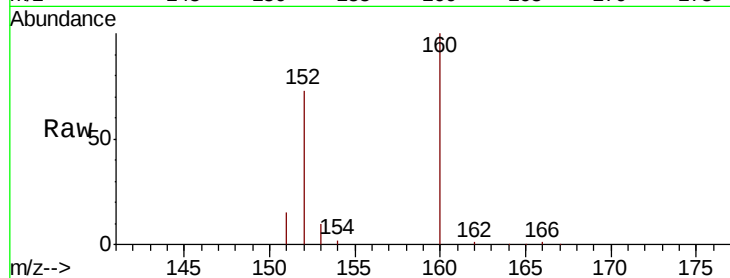
ClientSampled :

BEPF8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 24501 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.2  | 16.2  | 24.4  |
| 153       | 13.8  | 11.0  | 16.4  |

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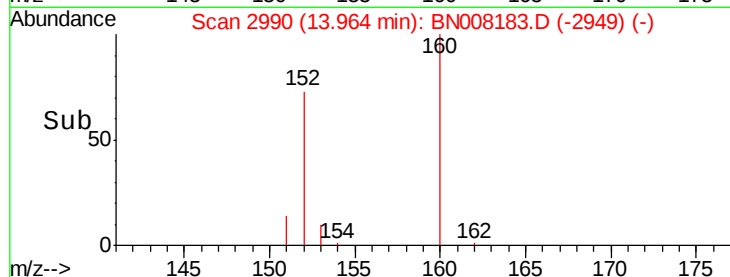
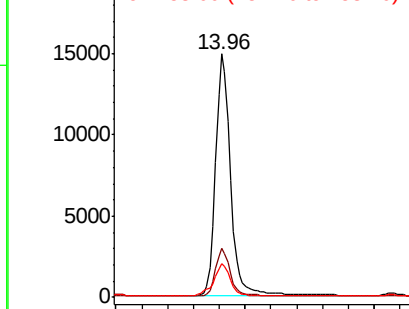


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#8

Acenaphthene

Concen: 0.302 ng/ul

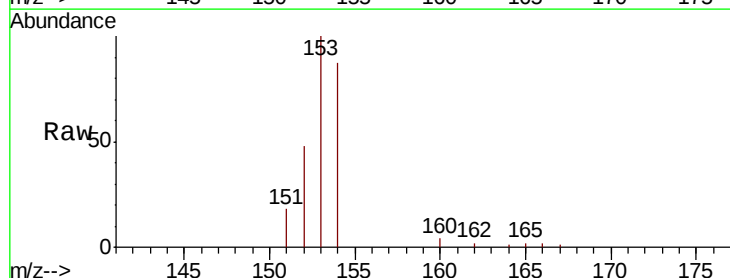
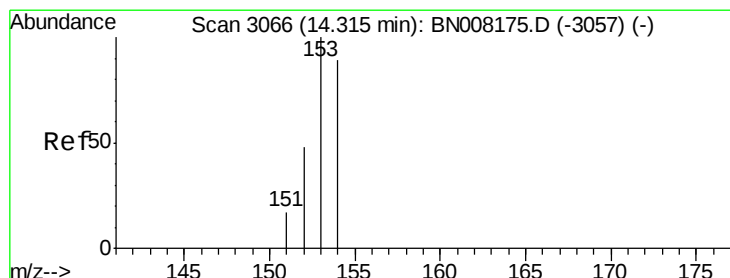
RT: 14.31 min Scan# 3065

Delta R.T. -0.01 min

Lab File: BN008183.D

Acq: 15 Oct 2019 21:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 8053  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 48.3  | 38.2  | 57.2  |
| 154       | 87.2  | 71.8  | 107.8 |

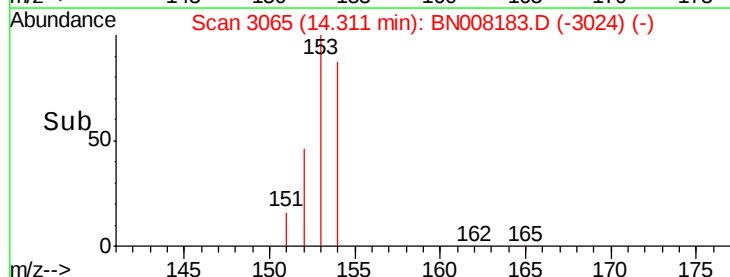
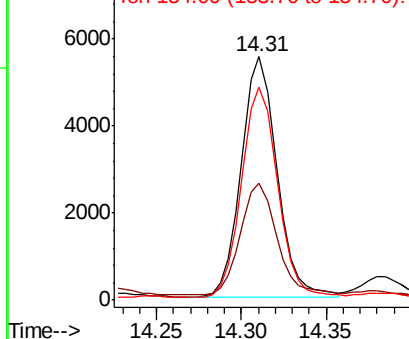


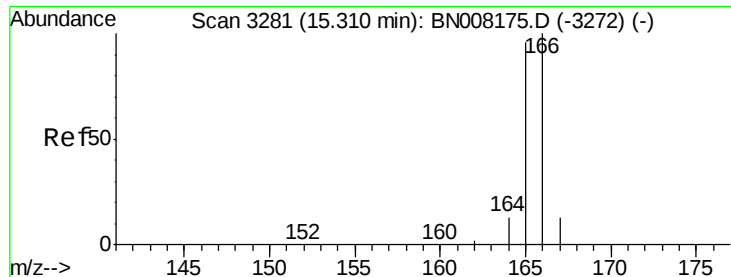
Abundance

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.375 ng/ul

RT: 15.30 min Scan# 3279

Delta R.T. -0.01 min

Lab File: BN008183.D

Acq: 15 Oct 2019 21:01

Instrument :

BNA\_N

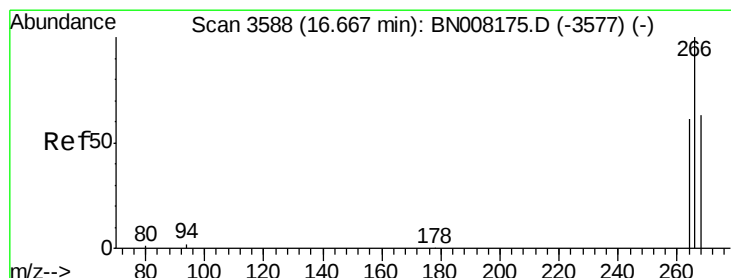
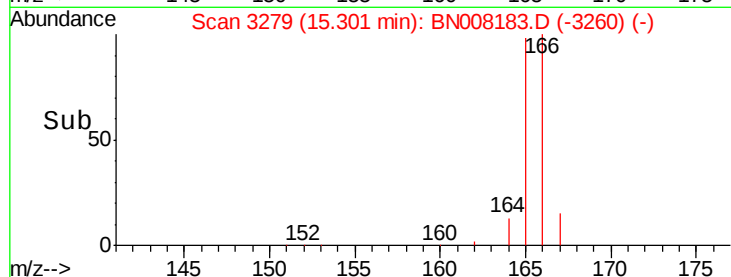
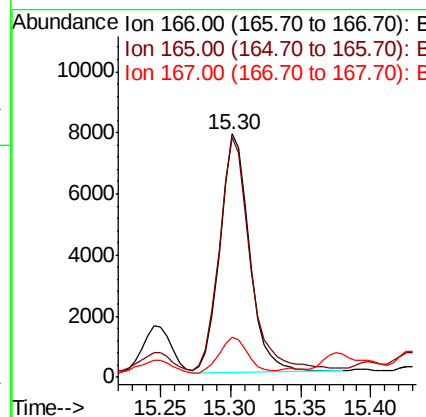
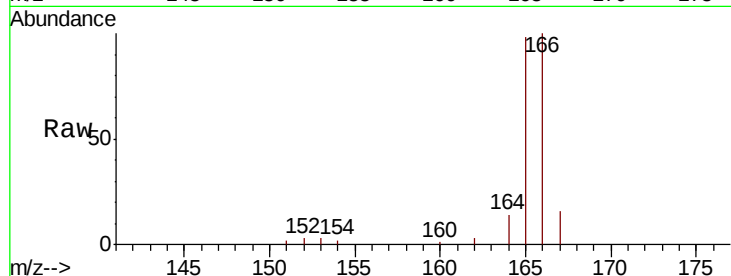
ClientSampleId :

BEPF8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 11357 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 98.5  | 76.6  | 115.0 |
| 167       | 16.3  | 11.7  | 17.5  |

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#11

Pentachlorophenol

Concen: 0.027 ng/ul m

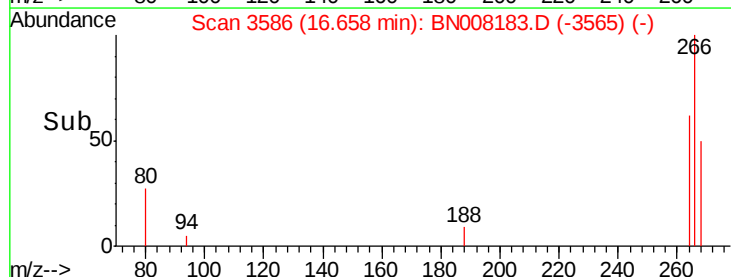
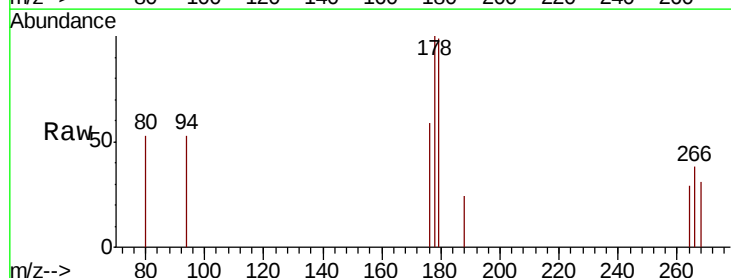
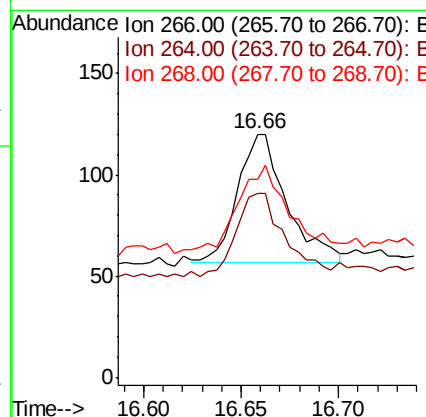
RT: 16.66 min Scan# 3586

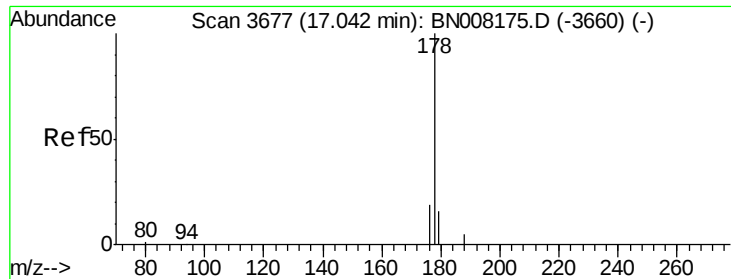
Delta R.T. -0.01 min

Lab File: BN008183.D

Acq: 15 Oct 2019 21:01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 110   |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 1.8   | 50.1  | 75.1# |
| 268       | 2.7   | 51.9  | 77.9# |





#12

Phenanthrene

Concen: 5.478 ng/ul m

RT: 17.04 min Scan# 3676

Delta R.T. -0.01 min

Lab File: BN008183.D

Acq: 15 Oct 2019 21:01

Instrument :

BNA\_N

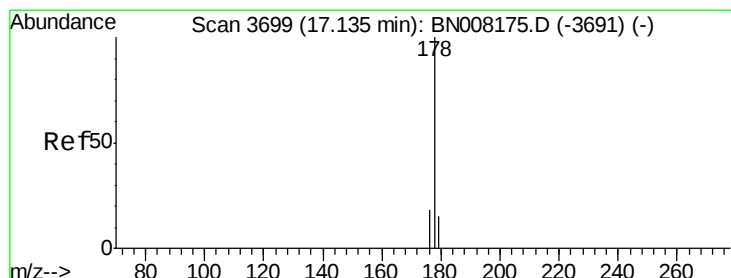
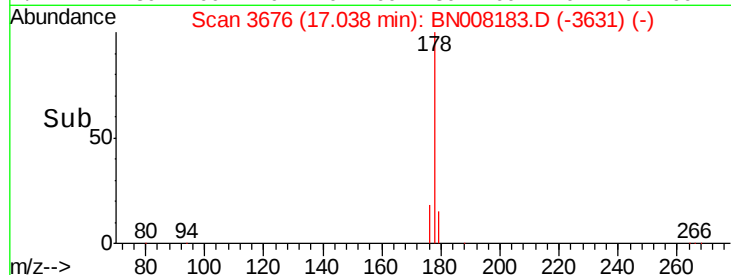
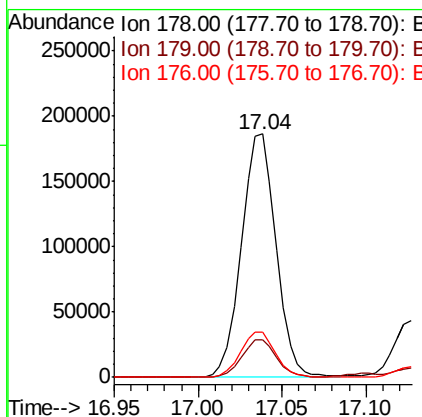
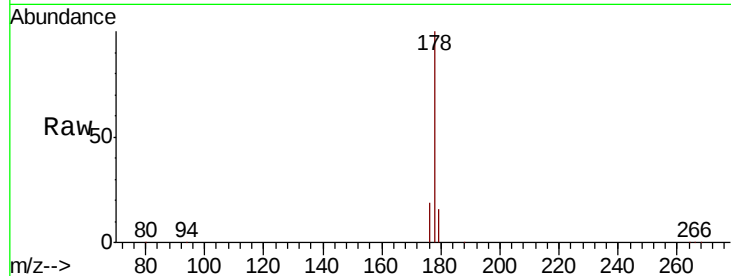
ClientSampled :

BEPF8

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 267740    |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 15.5  | 12.8 19.2 |
| 176         | 18.6  | 15.4 23.2 |

Manual Integrations  
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#13

Anthracene

Concen: 1.364 ng/ul m

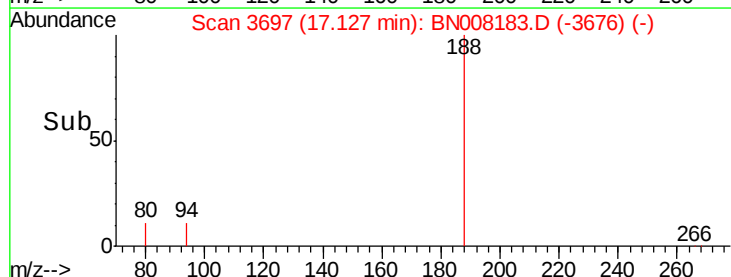
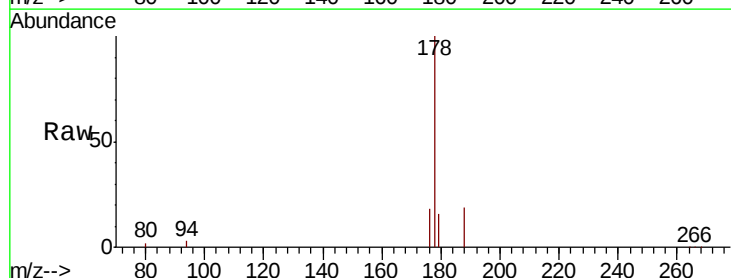
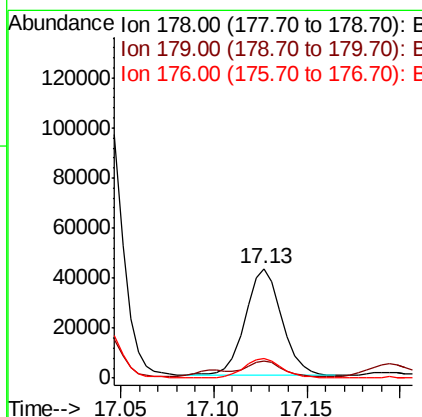
RT: 17.13 min Scan# 3697

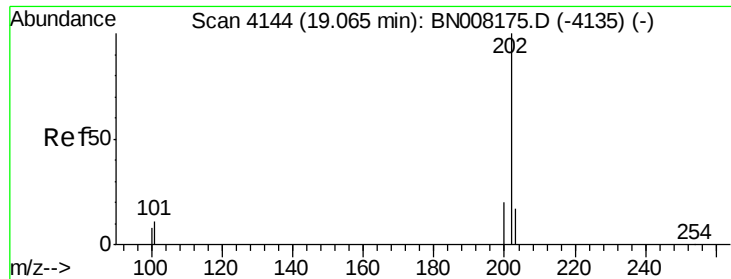
Delta R.T. -0.01 min

Lab File: BN008183.D

Acq: 15 Oct 2019 21:01

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 58682     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 16.1  | 13.0 19.6 |
| 176         | 18.3  | 15.0 22.6 |





#15

Fluoranthene

Concen: 12.331 ng/ul m

RT: 19.06 min Scan# 4143

Delta R.T. -0.01 min

Lab File: BN008183.D

Acq: 15 Oct 2019 21:01

Instrument :

BNA\_N

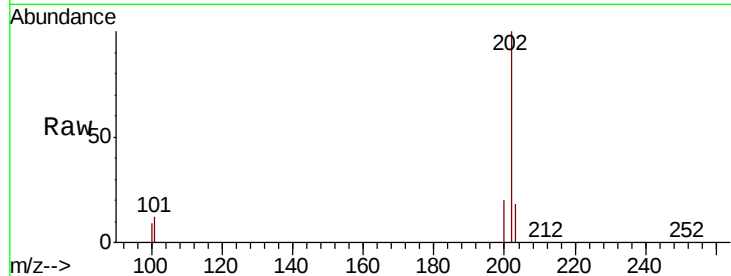
ClientSampleId :

BEPF8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 795958 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.6  | 0.0   | 31.2   |
| 100       | 8.7   | 0.0   | 28.5   |

Manual Integrations  
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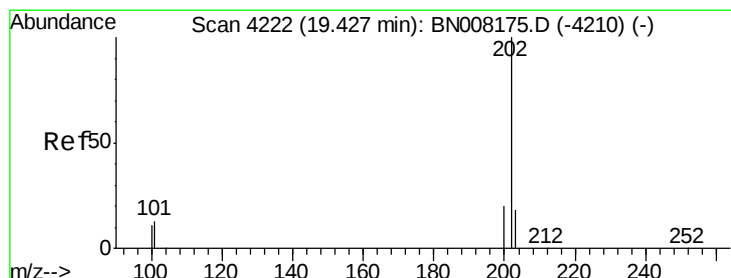
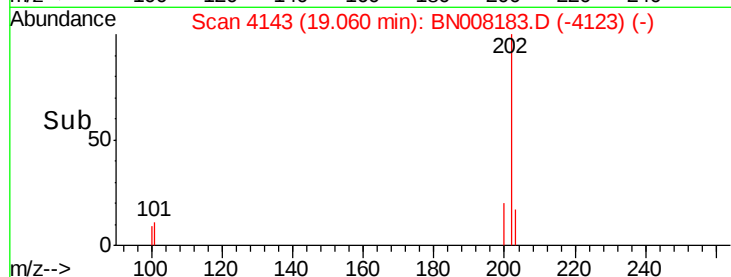
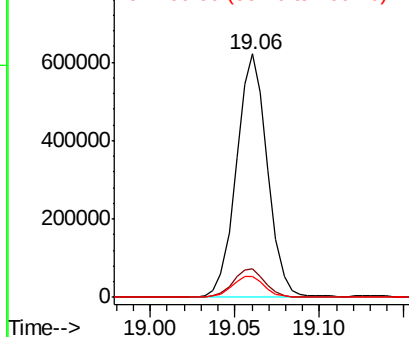


Abundance

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: 12.075 ng/ul

RT: 19.43 min Scan# 4222

Delta R.T. -0.00 min

Lab File: BN008183.D

Acq: 15 Oct 2019 21:01

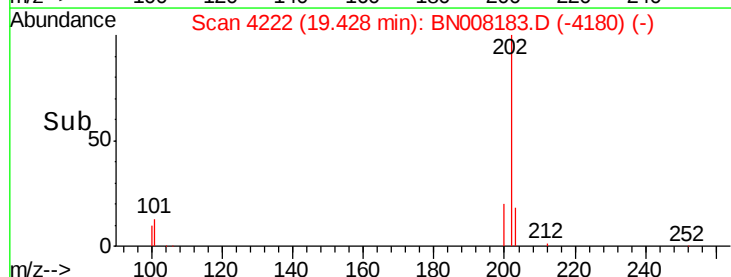
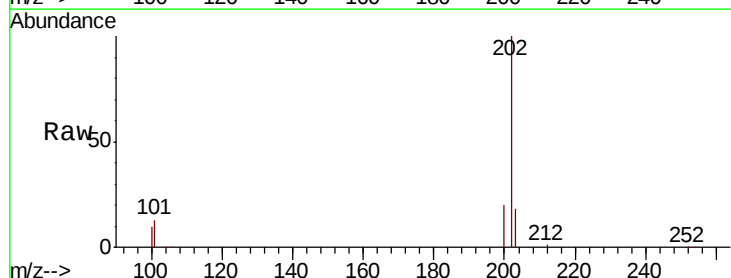
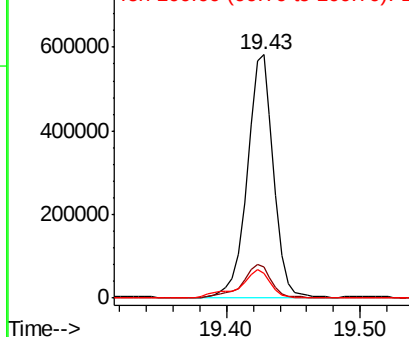
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 792461 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 13.0  | 10.9  | 16.3   |
| 100       | 10.4  | 8.7   | 13.1   |

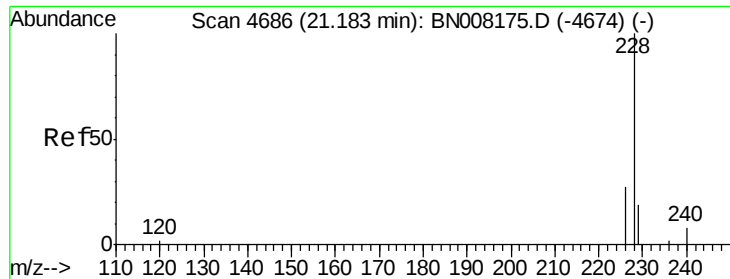
Abundance

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





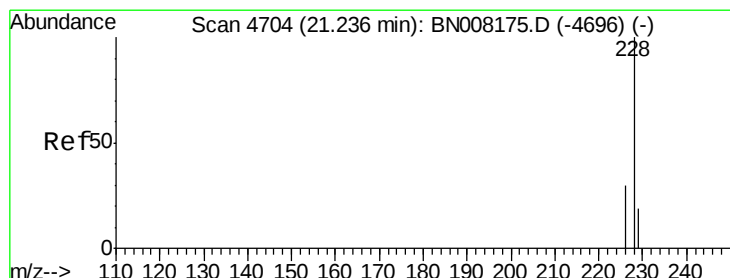
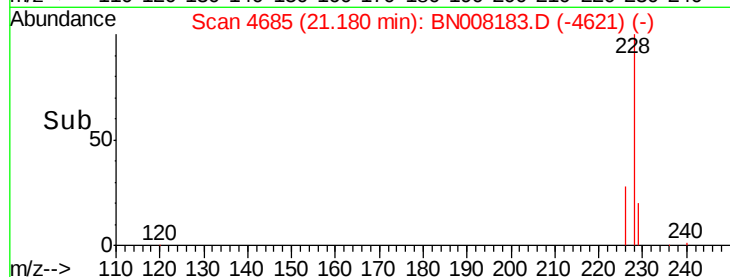
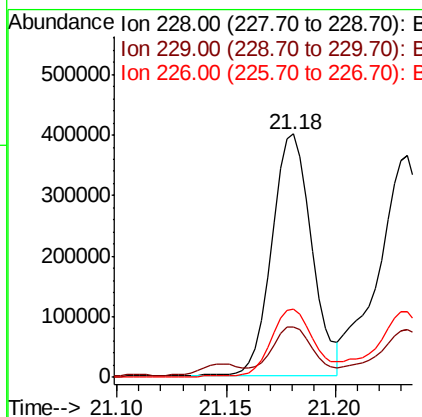
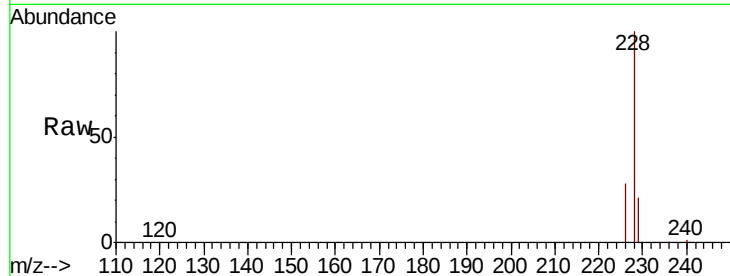
#18  
Benzo(a)anthracene  
Concen: 8.510 ng/ul m  
RT: 21.18 min Scan# 4685  
Delta R.T. -0.01 min  
Lab File: BN008183.D  
Acq: 15 Oct 2019 21:01

Instrument :  
BNA\_N  
ClientSampleId :  
BEPF8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.8  | 16.2  | 24.2  |
| 226     | 28.2  | 21.4  | 32.0  |

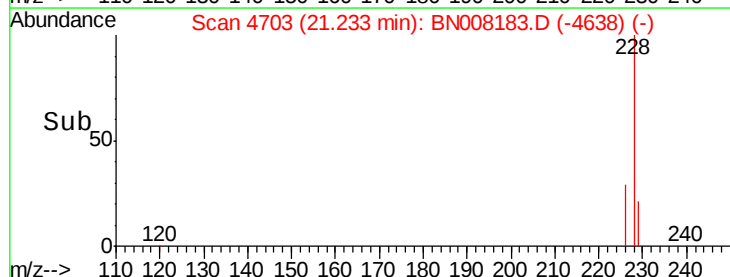
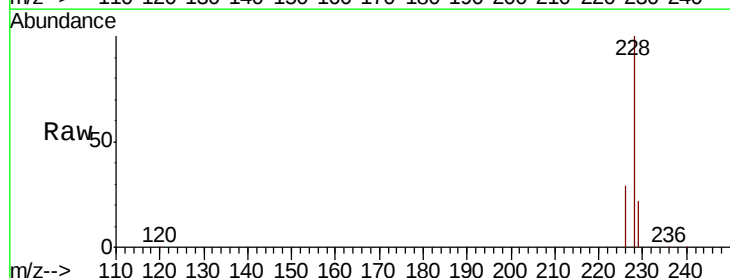
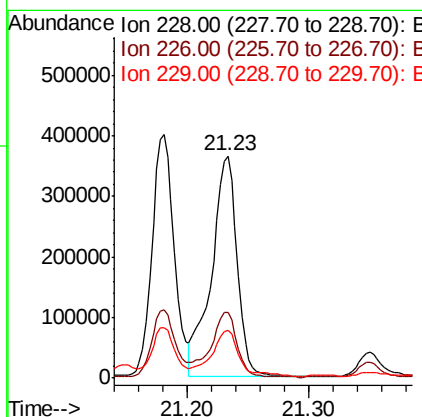
Manual Integrations  
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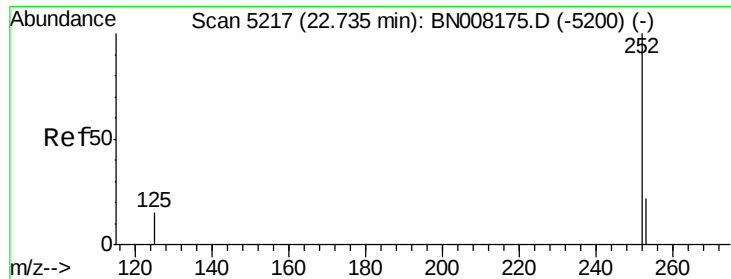
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#19  
Chrysene  
Concen: 7.247 ng/ul  
RT: 21.23 min Scan# 4703  
Delta R.T. -0.01 min  
Lab File: BN008183.D  
Acq: 15 Oct 2019 21:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.5  | 24.1  | 36.1  |
| 229     | 21.7  | 16.2  | 24.2  |





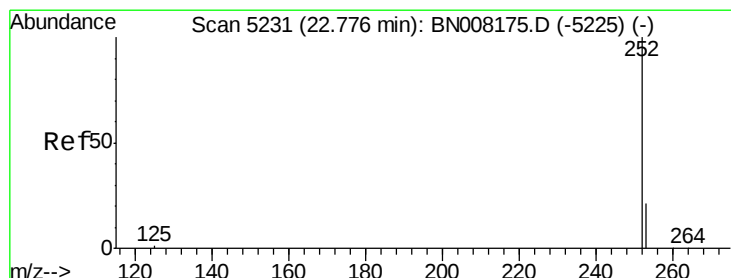
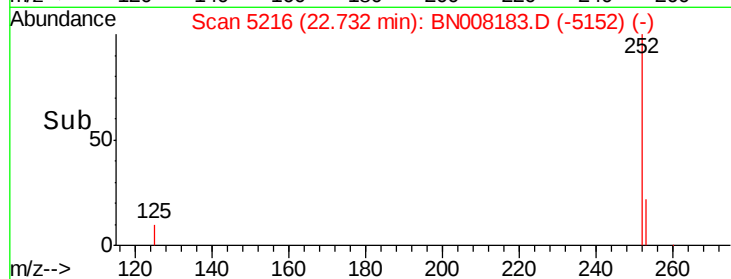
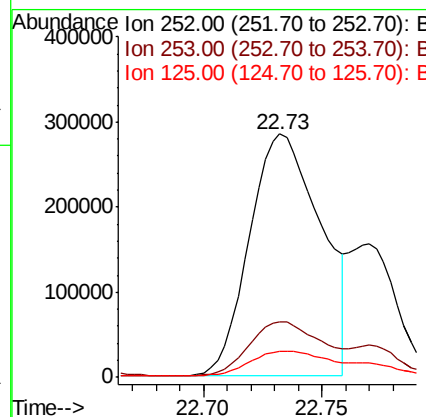
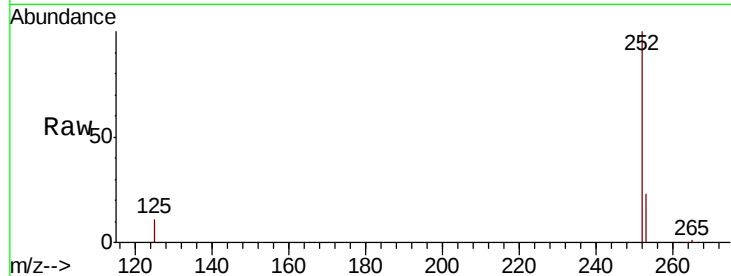
#21  
Benzo(b)fluoranthene  
Concen: 12.065 ng/ul m  
RT: 22.73 min Scan# 5216  
Delta R.T. -0.01 min  
Lab File: BN008183.D  
Acq: 15 Oct 2019 21:01

Instrument :  
BNA\_N  
ClientSampleId :  
BEPF8

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 22.8  | 0.0        | 53.4  |
| 125     | 10.7  | 0.0        | 32.4  |

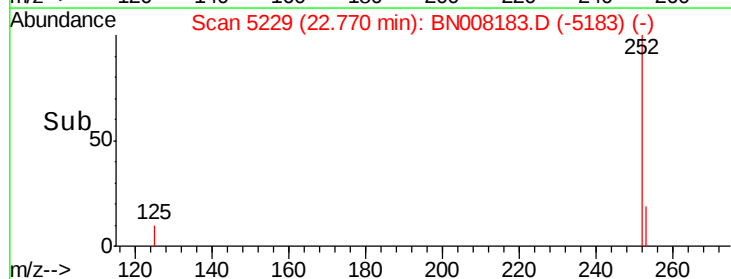
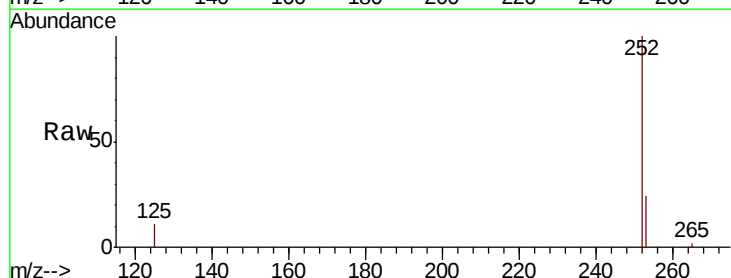
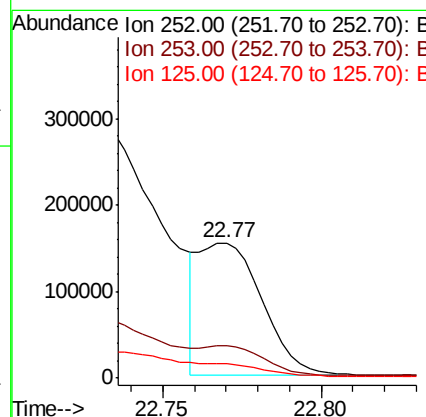
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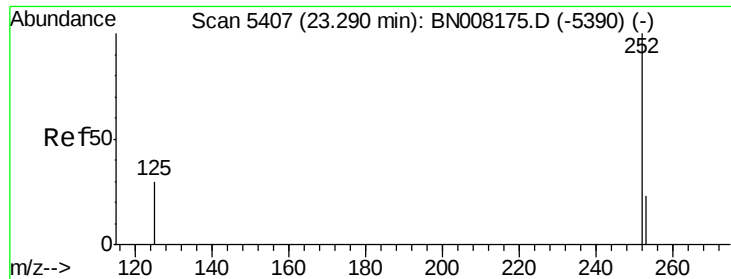
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#22  
Benzo(k)fluoranthene  
Concen: 3.826 ng/ul m  
RT: 22.77 min Scan# 5229  
Delta R.T. -0.01 min  
Lab File: BN008183.D  
Acq: 15 Oct 2019 21:01

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 23.9  | 21.3       | 31.9  |
| 125     | 10.7  | 12.3       | 18.5# |





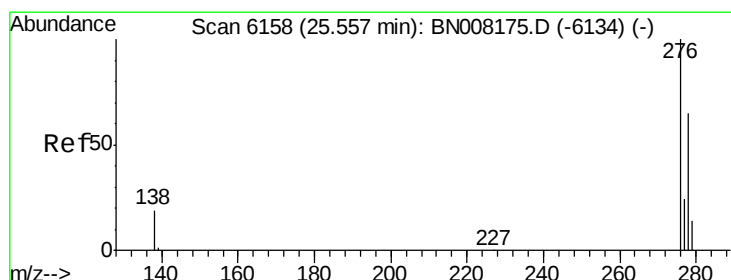
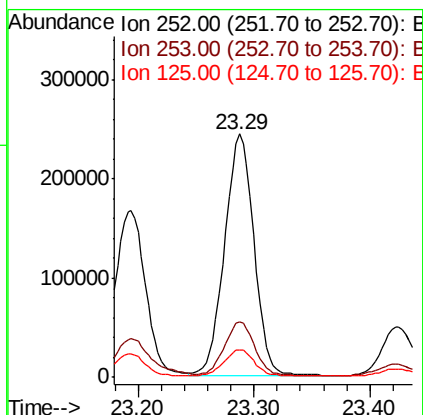
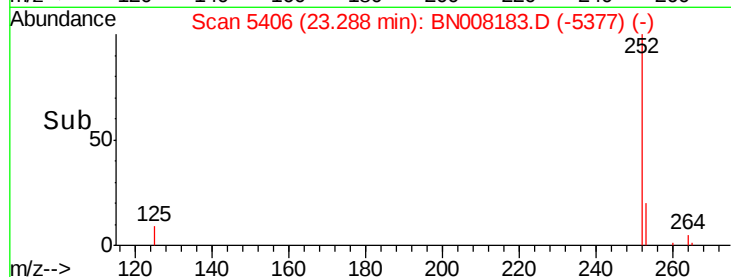
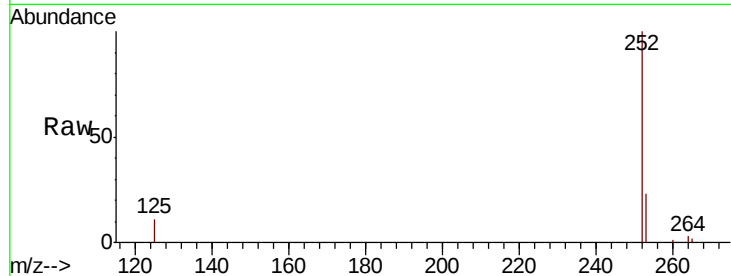
#23  
Benzo(a)pyrene  
Concen: 8.153 ng/ul  
RT: 23.29 min Scan# 5406  
Delta R.T. -0.01 min  
Lab File: BN008183.D  
Acq: 15 Oct 2019 21:01

Instrument :  
BNA\_N  
ClientSampleId :  
BEPF8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 22.8  | 34.2  |
| 125     | 11.4  | 18.4  | 27.6# |

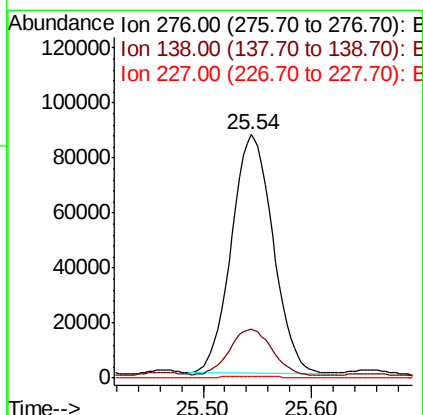
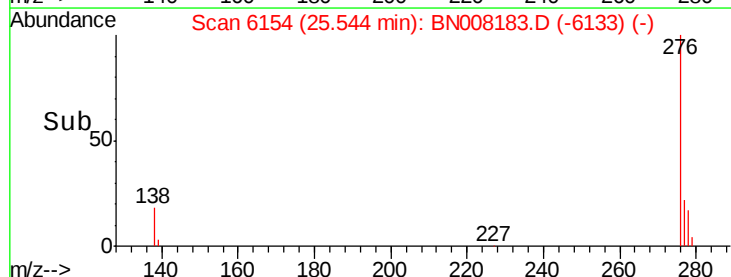
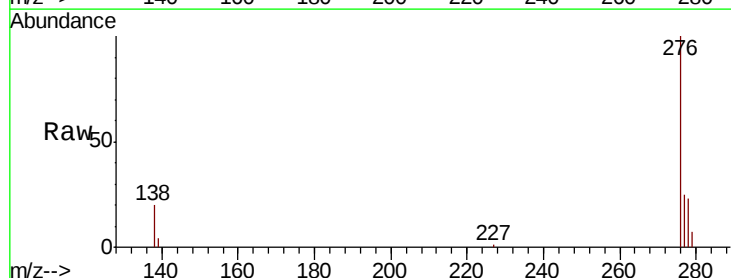
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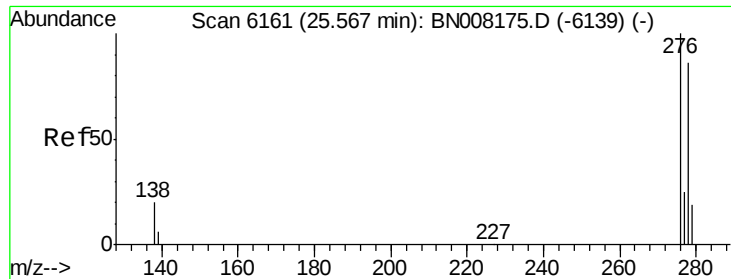
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#24  
Indeno(1,2,3-cd)pyrene  
Concen: 3.787 ng/ul  
RT: 25.54 min Scan# 6154  
Delta R.T. -0.03 min  
Lab File: BN008183.D  
Acq: 15 Oct 2019 21:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.7  | 16.1  | 24.1  |
| 227     | 0.2   | 0.2   | 0.2   |





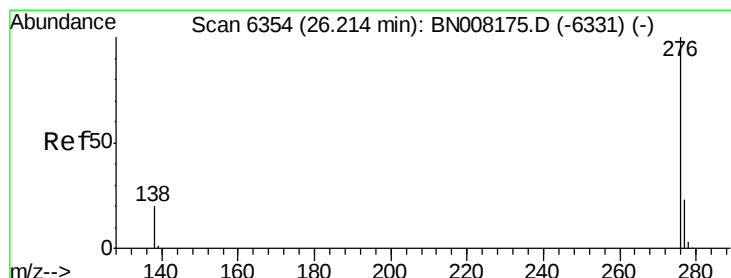
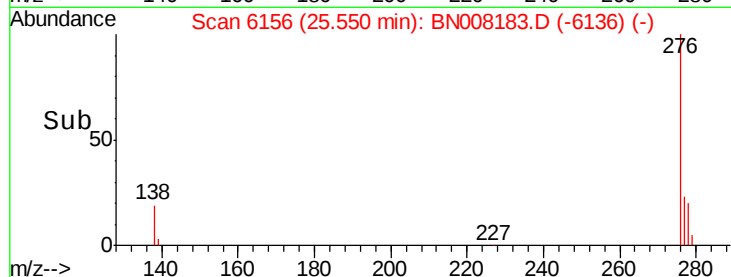
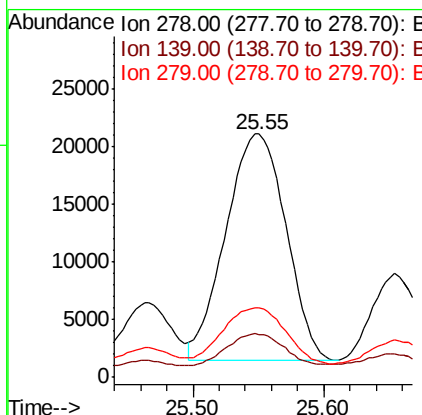
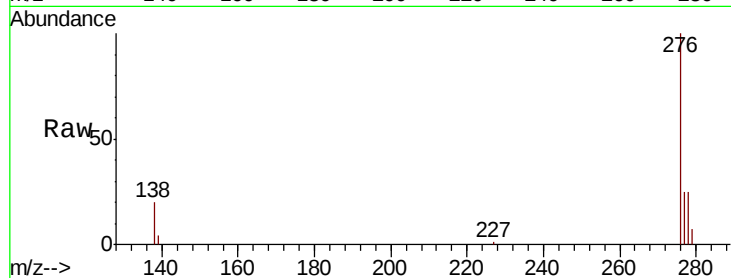
#25  
Dibenzo(a,h)anthracene  
Concen: 1.293 ng/uL  
RT: 25.55 min Scan# 6156  
Delta R.T. -0.03 min  
Lab File: BN008183.D  
Acq: 15 Oct 2019 21:01

Instrument :  
BNA\_N  
ClientSampled :  
BEPF8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.7  | 15.0  | 22.6  |
| 279     | 28.6  | 22.4  | 33.6  |

Manual Integrations  
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#26  
Benzo(g,h,i)perylene  
Concen: 3.255 ng/uL  
RT: 26.21 min Scan# 6352  
Delta R.T. -0.02 min  
Lab File: BN008183.D  
Acq: 15 Oct 2019 21:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.7  | 17.0  | 25.4  |
| 277     | 24.5  | 20.4  | 30.6  |

