

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101419\  
 Data File : BN008171.D  
 Acq On : 15 Oct 2019 13:51  
 Operator : JU  
 Sample : K5175-01  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEP83

Manual Integrations  
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Quant Time: Oct 15 16:01:43 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   | 7.62  | 152  | 2062     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.38 | 136  | 10218    | 0.40  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.25 | 164  | 6450     | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.00 | 188  | 15363m   | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.19 | 240  | 16234m   | 0.40  | ng/ul  | -0.01    |
| 20) Perylene-d12            | 23.38 | 264  | 14180m   | 0.40  | ng/ul  | -0.02    |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.98 | 152  | 3753     | 0.22  | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 19.03 | 212  | 13191m   | 0.25  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.43 | 128  | 4680     | 0.161 | ng/ul  | 97       |
| 5) 2-Methylnaphthalene      | 12.06 | 142  | 2492     | 0.125 | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.97 | 152  | 16222    | 0.528 | ng/ul  | 99       |
| 8) Acenaphthene             | 14.31 | 153  | 6412     | 0.268 | ng/ul  | 97       |
| 9) Fluorene                 | 15.31 | 166  | 8924     | 0.329 | ng/ul  | 99       |
| 12) Phenanthrene            | 17.04 | 178  | 200619m  | 4.460 | ng/ul  |          |
| 13) Anthracene              | 17.13 | 178  | 42652m   | 1.078 | ng/ul  |          |
| 15) Fluoranthene            | 19.06 | 202  | 550668m  | 9.270 | ng/ul  |          |
| 17) Pyrene                  | 19.43 | 202  | 533066   | 8.247 | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.18 | 228  | 344576m  | 5.838 | ng/ul  |          |
| 19) Chrysene                | 21.23 | 228  | 361312   | 4.988 | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.73 | 252  | 425473m  | 9.217 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.77 | 252  | 158171m  | 3.025 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.29 | 252  | 289411   | 5.958 | ng/ul# | 84       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.55 | 276  | 162313   | 2.837 | ng/ul  | 99       |
| 25) Dibenzo(a,h)anthracene  | 25.55 | 278  | 42607    | 0.942 | ng/ul  | 99       |
| 26) Benzo(a,h,i)perylene    | 26.21 | 276  | 133728   | 2.549 | ng/ul  | 99       |

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

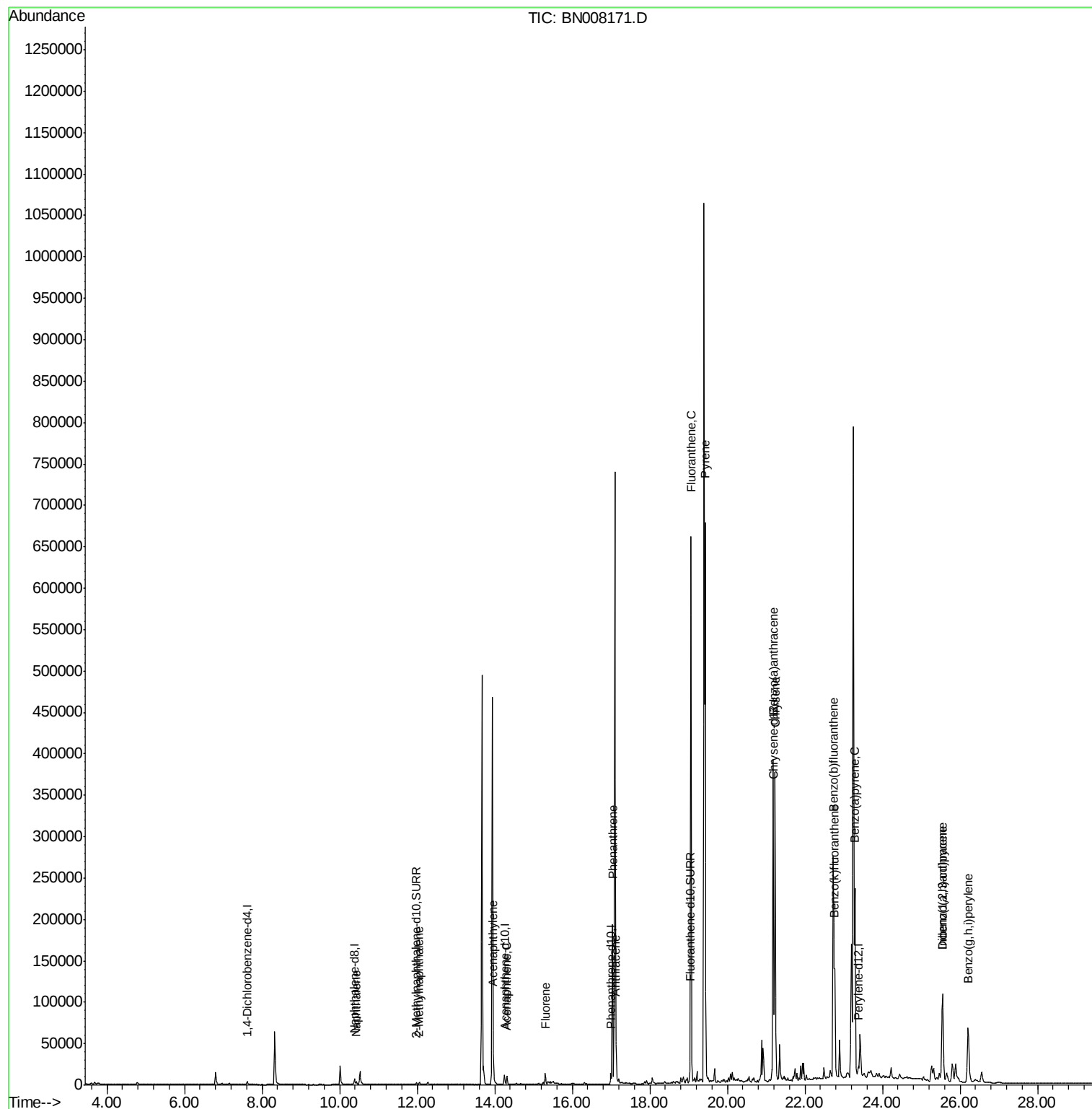
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101419\  
Data File : BN008171.D  
Acq On : 15 Oct 2019 13:51  
Operator : JU  
Sample : K5175-01  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

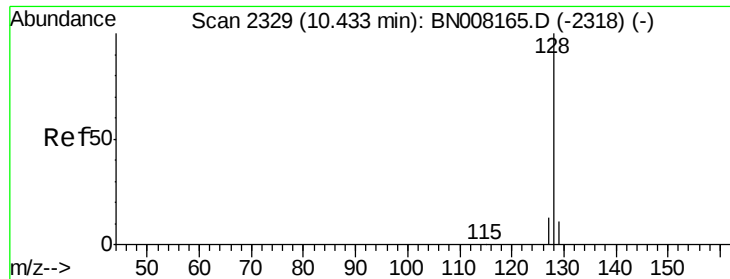
Instrument :  
BNA\_N  
ClientSampleId :  
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Quant Time: Oct 15 16:01:43 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 15 15:13:35 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.161 ng/ul

RT: 10.43 min Scan# 2329

Delta R.T. -0.01 min

Lab File: BN008171.D

Acq: 15 Oct 2019 13:51

Instrument :

BNA\_N

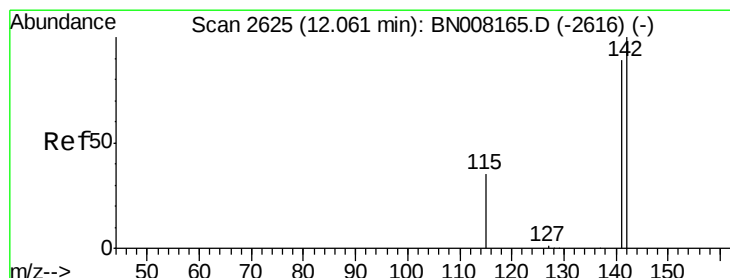
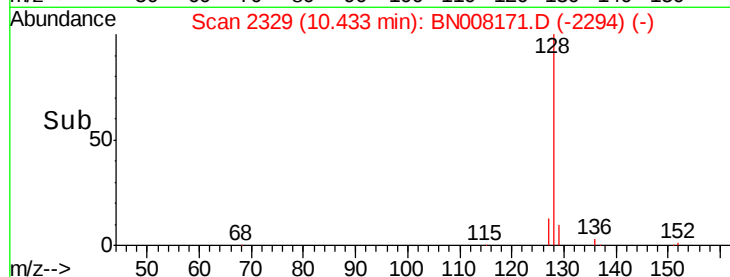
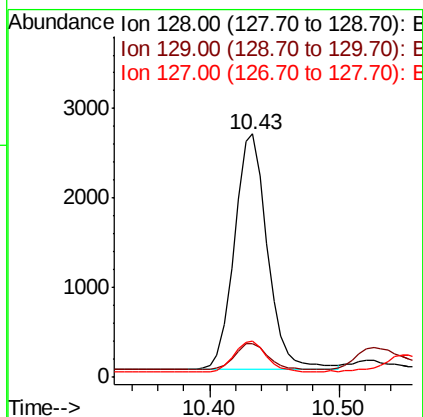
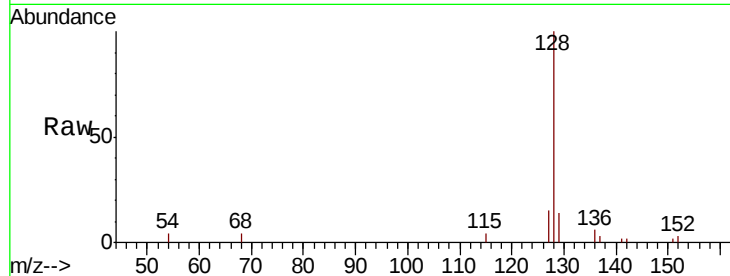
ClientSampleId :

BEP83

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 128   | Resp: | 4680 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 13.8  | 9.8   | 14.8 |
| 127       | 14.7  | 11.1  | 16.7 |

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#5

2-Methylnaphthalene

Concen: 0.125 ng/ul

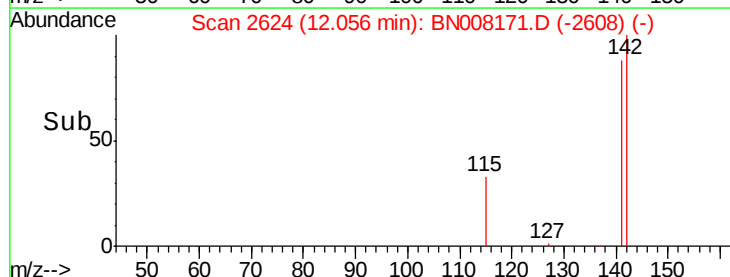
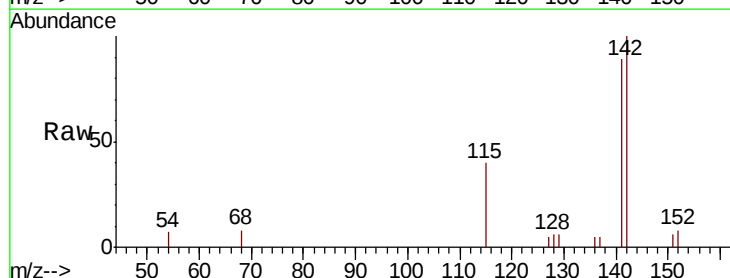
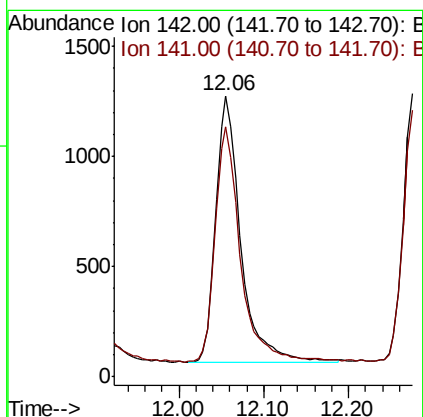
RT: 12.06 min Scan# 2624

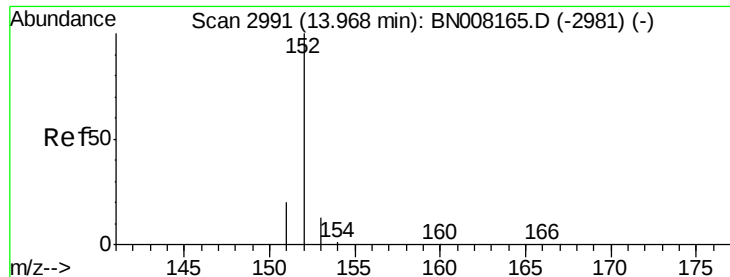
Delta R.T. -0.01 min

Lab File: BN008171.D

Acq: 15 Oct 2019 13:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 2492  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 88.4  | 71.4  | 107.2 |





#7

Acenaphthylene

Concen: 0.528 ng/ul

RT: 13.97 min Scan# 2991

Delta R.T. -0.00 min

Lab File: BN008171.D

Acq: 15 Oct 2019 13:51

Instrument :

BNA\_N

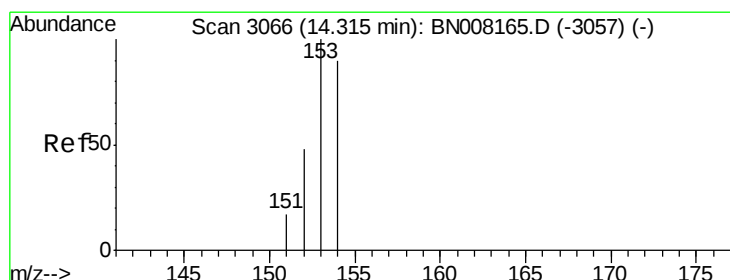
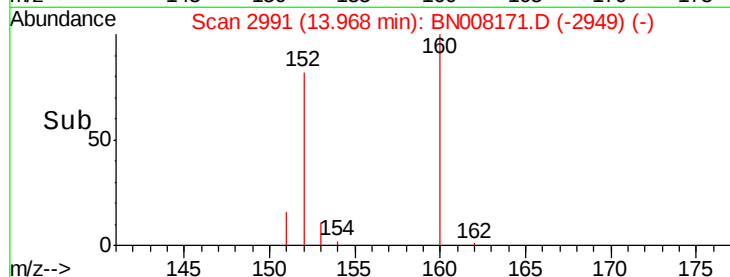
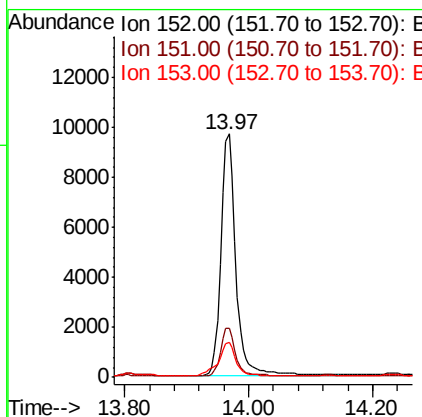
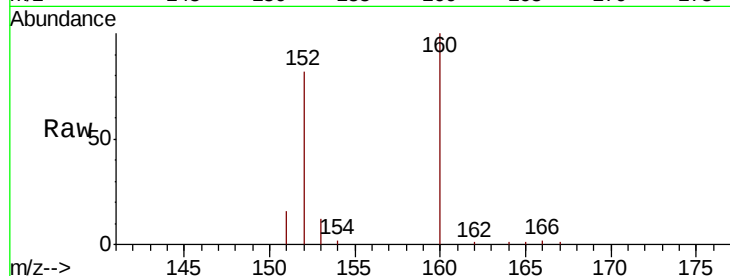
ClientSampled :

BEP83

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 16222 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.1  | 16.2  | 24.4  |
| 153       | 14.2  | 11.0  | 16.4  |

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#8

Acenaphthene

Concen: 0.268 ng/ul

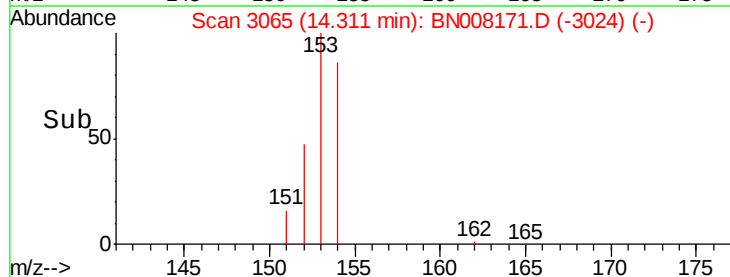
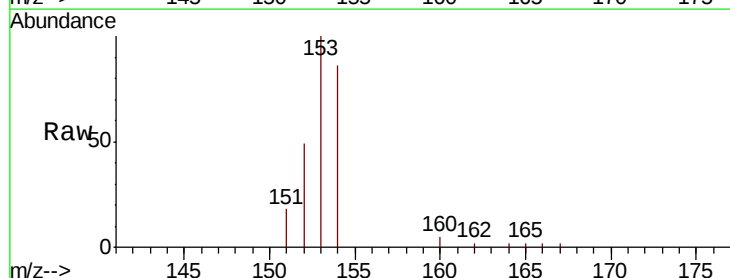
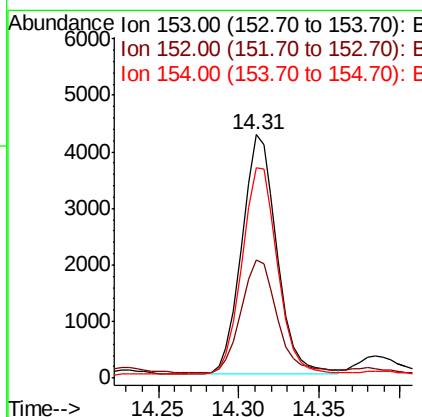
RT: 14.31 min Scan# 3065

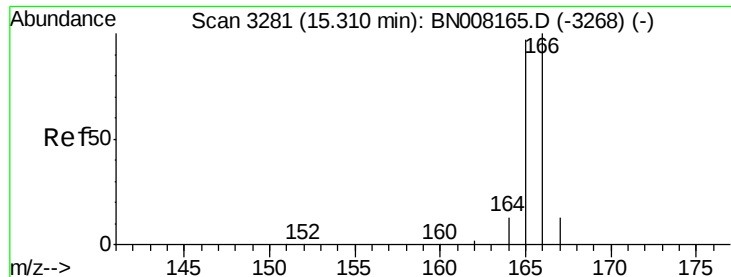
Delta R.T. -0.01 min

Lab File: BN008171.D

Acq: 15 Oct 2019 13:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 6412  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 48.7  | 38.2  | 57.2  |
| 154       | 86.2  | 71.8  | 107.8 |





#9

Fluorene

Concen: 0.329 ng/ul

RT: 15.31 min Scan# 3280

Delta R.T. -0.01 min

Lab File: BN008171.D

Acq: 15 Oct 2019 13:51

Instrument :

BNA\_N

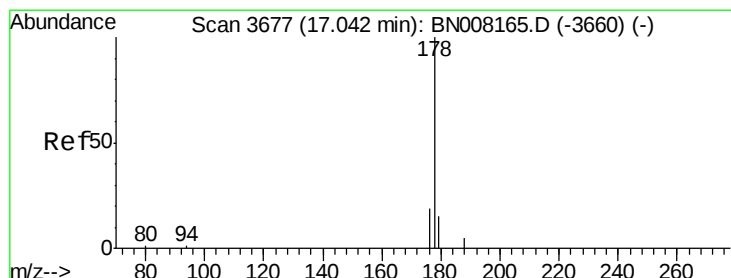
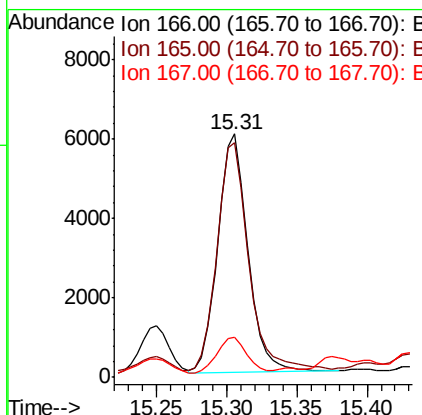
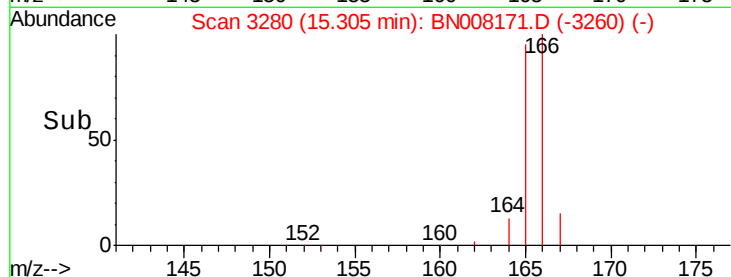
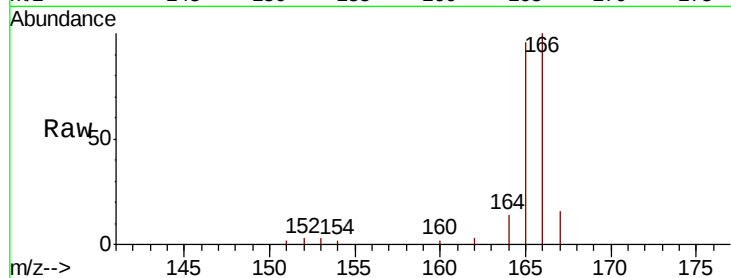
ClientSampleId :

BEP83

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 166     | 100  |       |       |       |
| 165     | 96.2 | 76.6  | 115.0 |       |
| 167     | 16.5 | 11.7  | 17.5  |       |

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#12

Phenanthrene

Concen: 4.460 ng/ul m

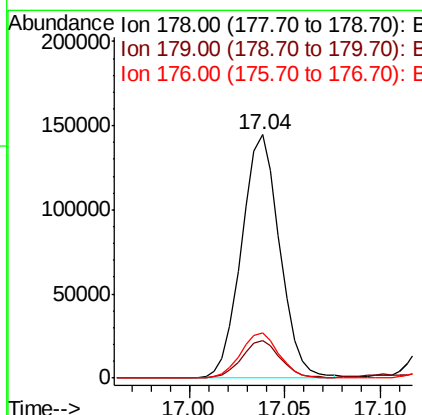
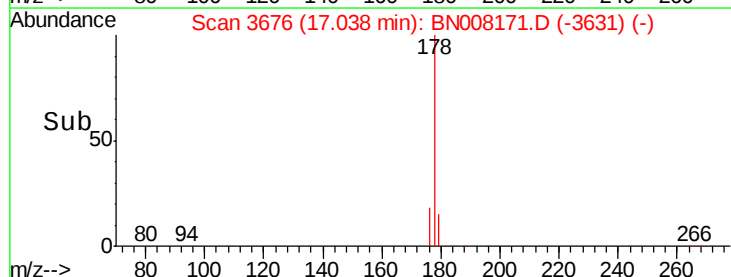
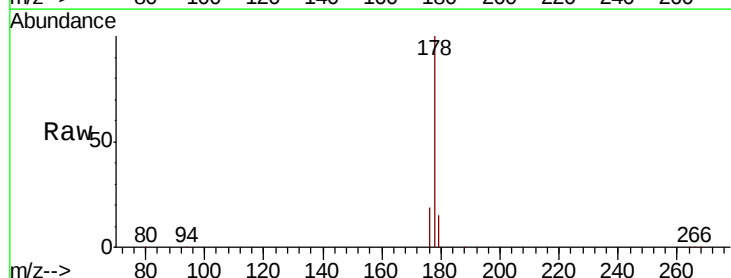
RT: 17.04 min Scan# 3676

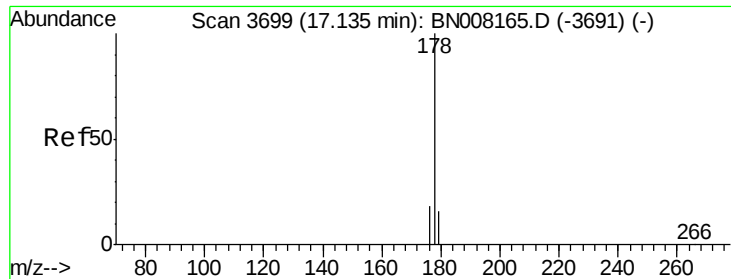
Delta R.T. -0.01 min

Lab File: BN008171.D

Acq: 15 Oct 2019 13:51

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 178     | 100  |       |       |       |
| 179     | 15.4 | 12.8  | 19.2  |       |
| 176     | 18.5 | 15.4  | 23.2  |       |





#13

Anthracene

Concen: 1.078 ng/ul m

RT: 17.13 min Scan# 3698

Delta R.T. -0.01 min

Lab File: BN008171.D

Acq: 15 Oct 2019 13:51

Instrument :

BNA\_N

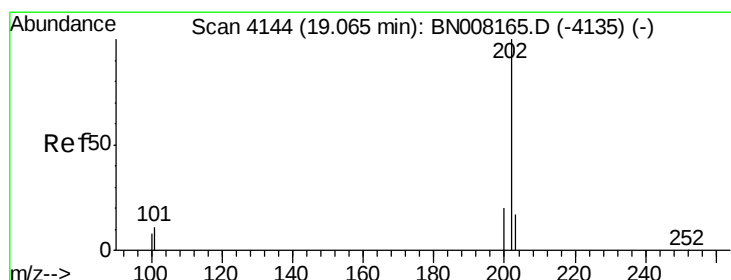
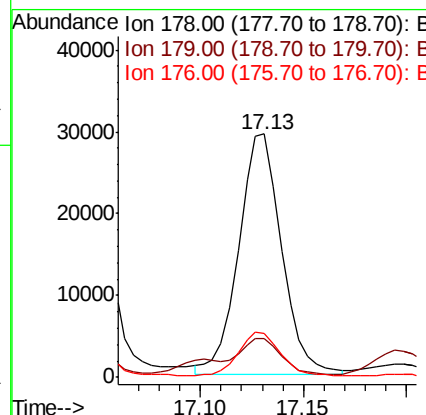
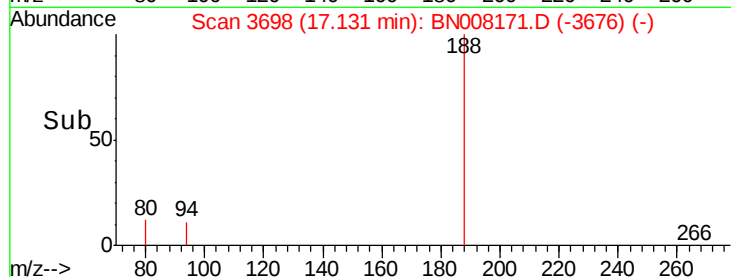
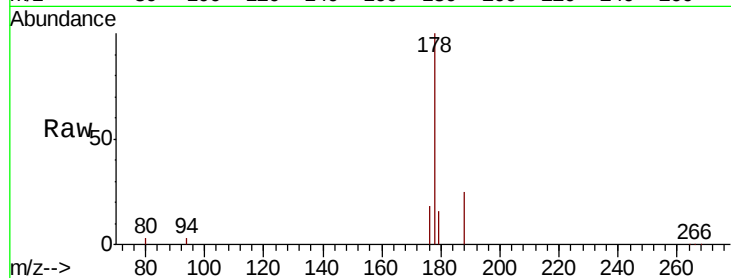
ClientSampleId :

BEP83

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 42652 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.0  | 13.0  | 19.6  |
| 176       | 18.0  | 15.0  | 22.6  |

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#15

Fluoranthene

Concen: 9.270 ng/ul m

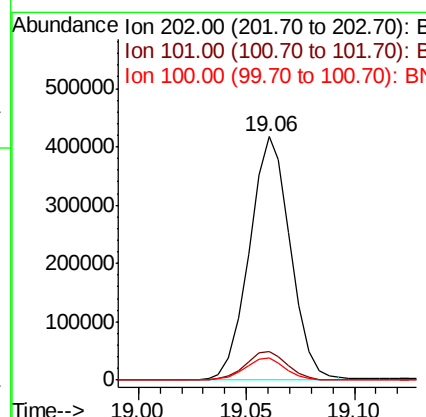
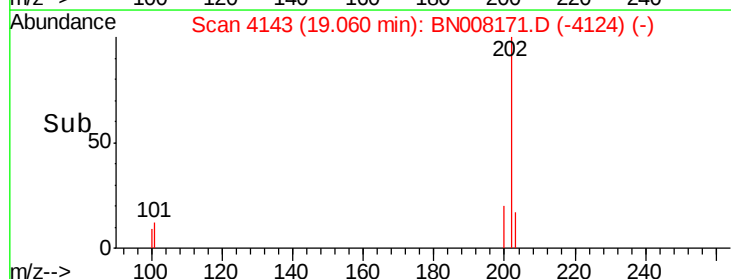
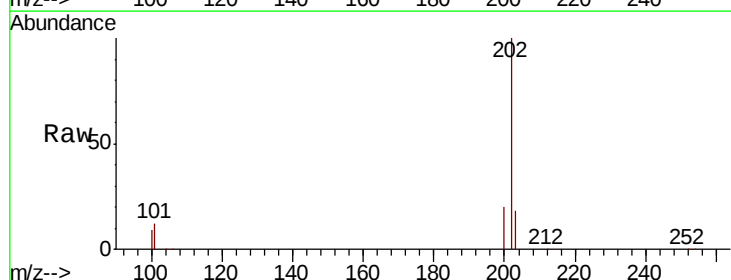
RT: 19.06 min Scan# 4143

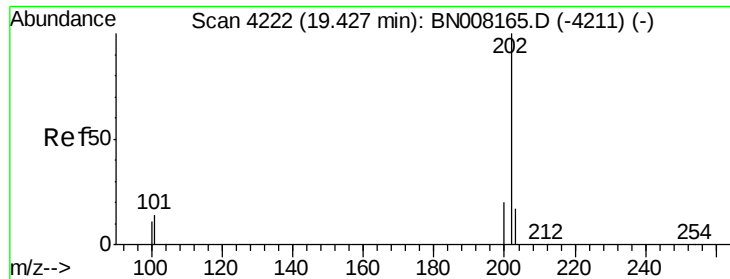
Delta R.T. -0.01 min

Lab File: BN008171.D

Acq: 15 Oct 2019 13:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 550668 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.8  | 0.0   | 31.2   |
| 100       | 9.0   | 0.0   | 28.5   |





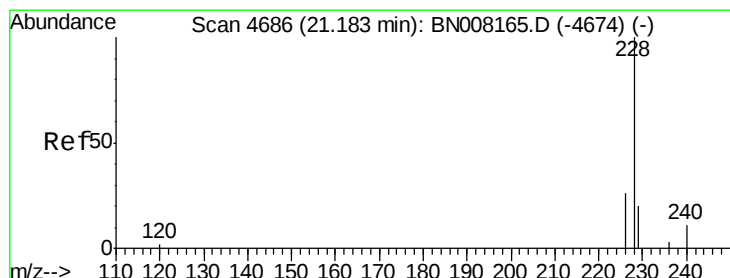
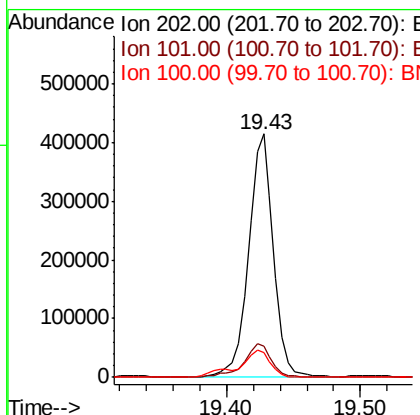
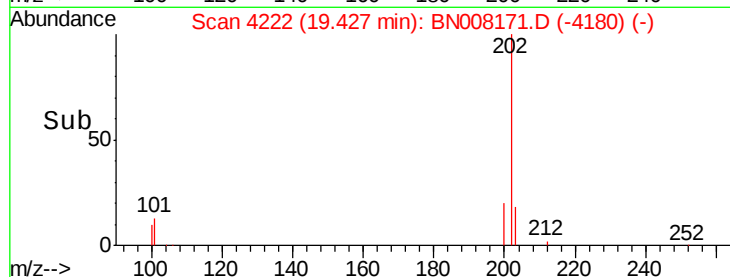
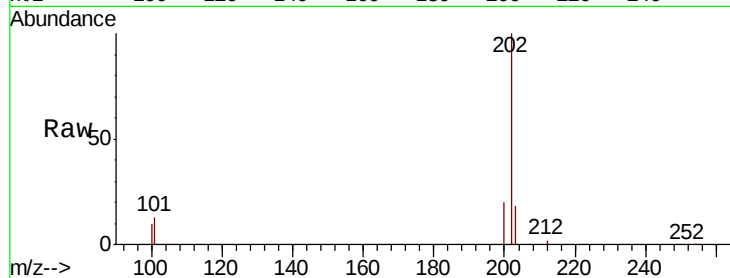
#17  
Pvrene  
Concen: 8.247 ng/ul  
RT: 19.43 min Scan# 4222  
Delta R.T. -0.00 min  
Lab File: BN008171.D  
Acq: 15 Oct 2019 13:51

Instrument :  
BNA\_N  
ClientSampled :  
BEP83

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

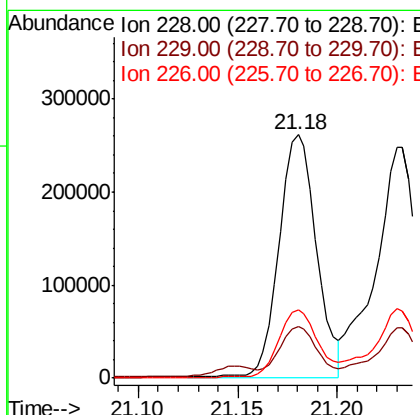
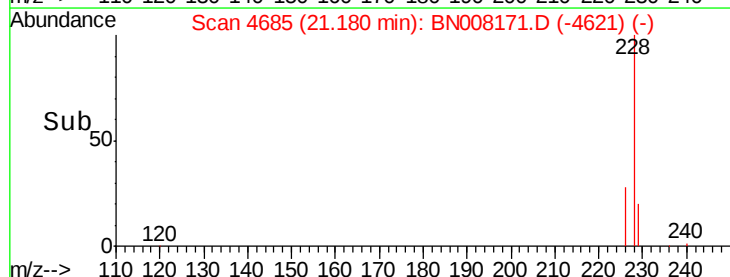
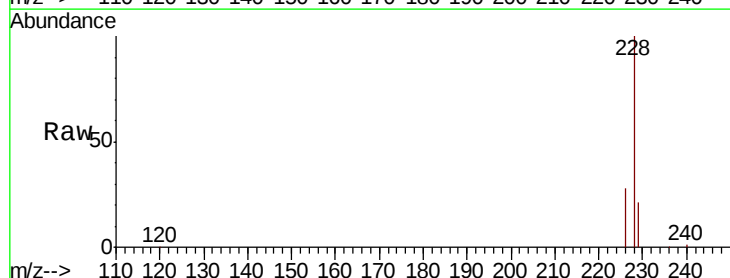
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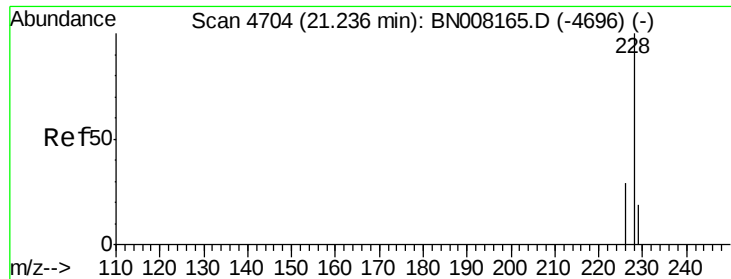
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10/16/2019 4:07:50 PM



#18  
Benzo(a)anthracene  
Concen: 5.838 ng/ul m  
RT: 21.18 min Scan# 4685  
Delta R.T. -0.01 min  
Lab File: BN008171.D  
Acq: 15 Oct 2019 13:51

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 21.0  | 16.2       | 24.2  |
| 226     | 27.9  | 21.4       | 32.0  |





#19

Chrysene

Concen: 4.988 ng/ul

RT: 21.23 min Scan# 4702

Delta R.T. -0.01 min

Lab File: BN008171.D

Acq: 15 Oct 2019 13:51

Instrument :

BNA\_N

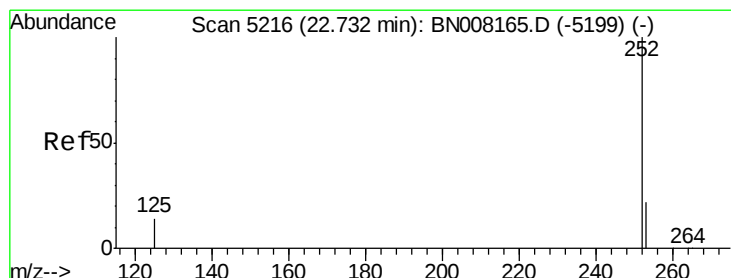
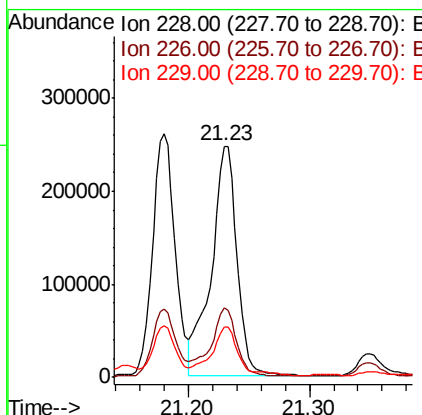
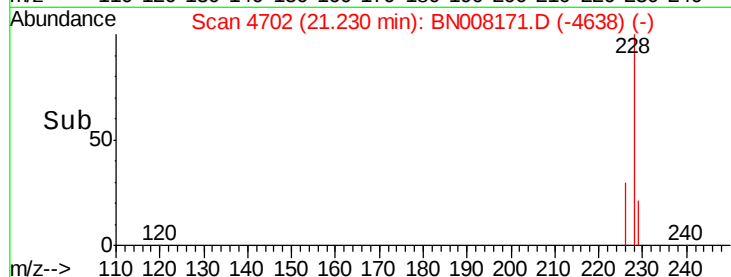
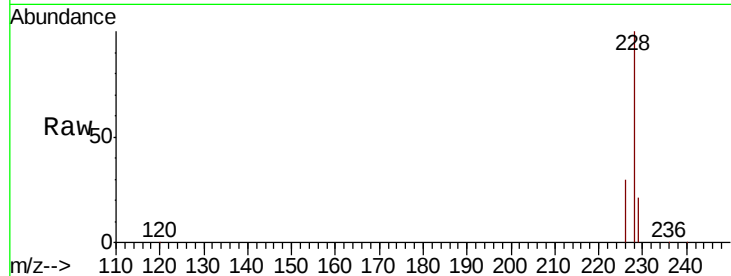
ClientSampleId :

BEP83

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 361312 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.9  | 24.1  | 36.1   |
| 229       | 21.5  | 16.2  | 24.2   |

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#21

Benzo(b)fluoranthene

Concen: 9.217 ng/ul m

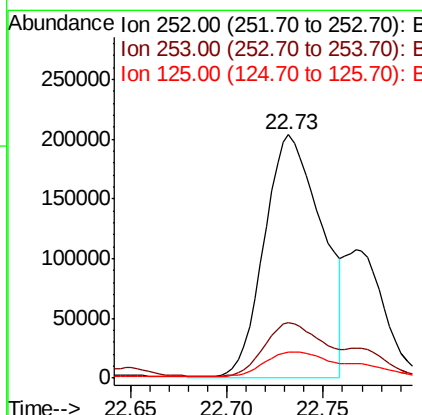
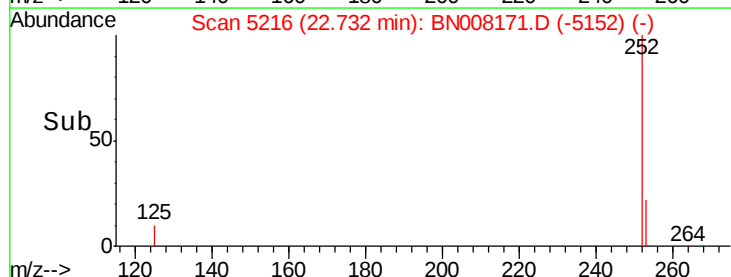
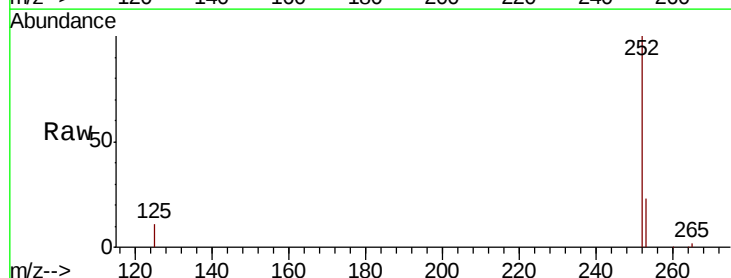
RT: 22.73 min Scan# 5216

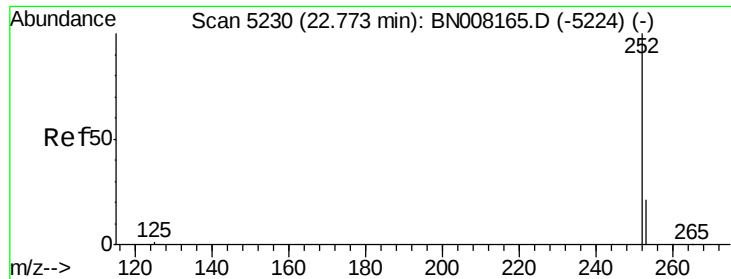
Delta R.T. -0.01 min

Lab File: BN008171.D

Acq: 15 Oct 2019 13:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 425473 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.9  | 0.0   | 53.4   |
| 125       | 10.8  | 0.0   | 32.4   |





#22

Benzo(k)fluoranthene

Concen: 3.025 ng/ul m

RT: 22.77 min Scan# 5228

Delta R.T. -0.02 min

Lab File: BN008171.D

Acq: 15 Oct 2019 13:51

Instrument :

BNA\_N

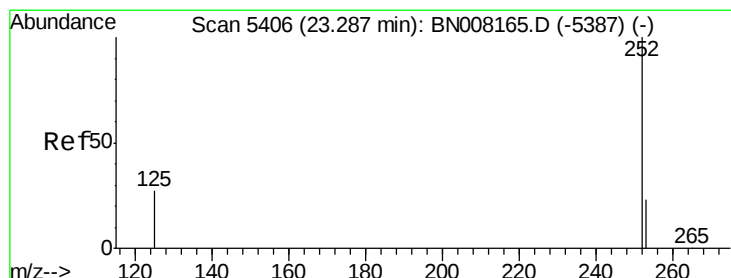
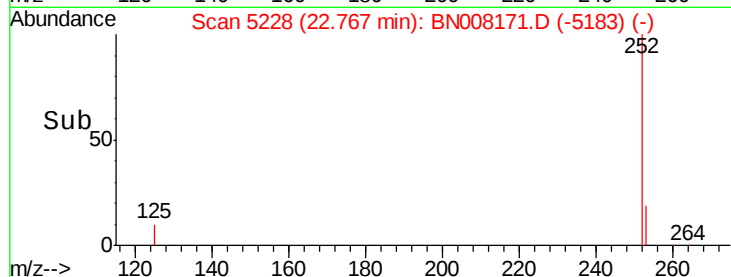
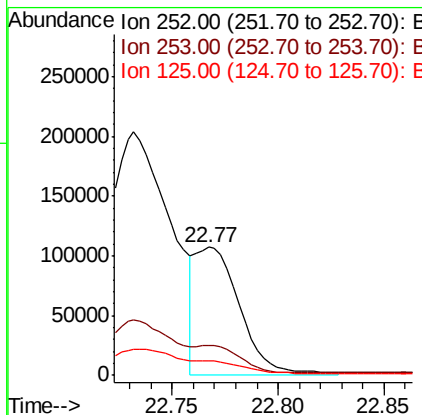
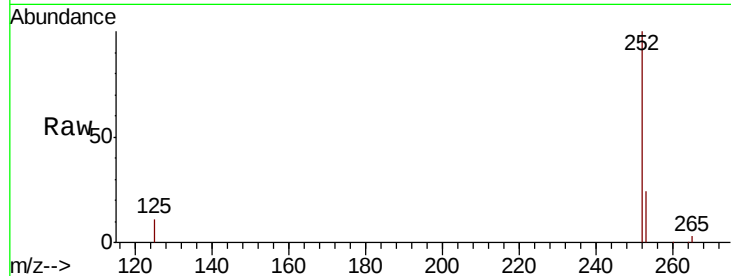
ClientSampleId :

BEP83

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 252     | 100  |       | 158171 |       |       |
| 253     | 23.7 | 21.3  | 31.9   |       |       |
| 125     | 11.1 | 12.3  | 18.5#  |       |       |

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#23

Benzo(a)pyrene

Concen: 5.958 ng/ul

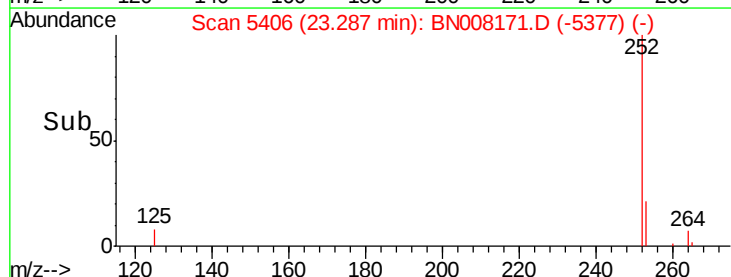
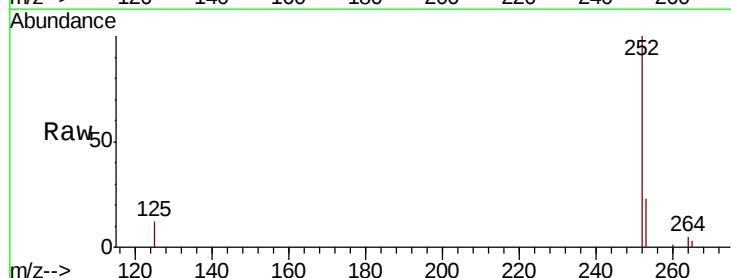
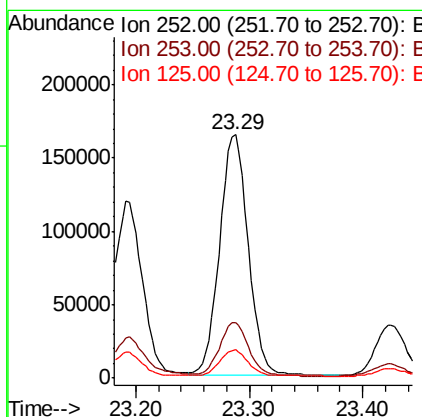
RT: 23.29 min Scan# 5406

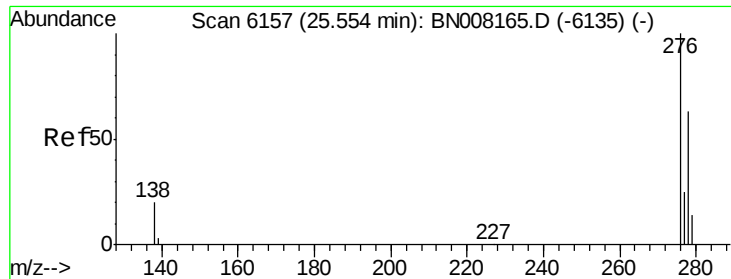
Delta R.T. -0.01 min

Lab File: BN008171.D

Acq: 15 Oct 2019 13:51

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 252     | 100  |       | 289411 |       |       |
| 253     | 23.0 | 22.8  | 34.2   |       |       |
| 125     | 11.6 | 18.4  | 27.6#  |       |       |





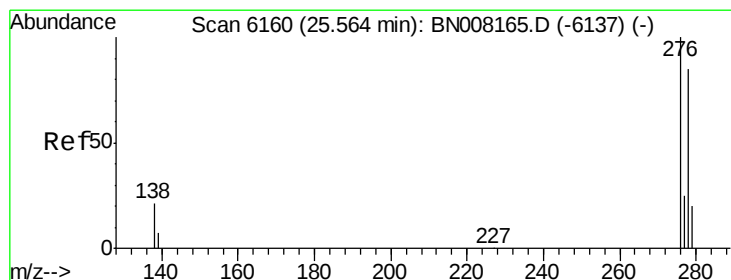
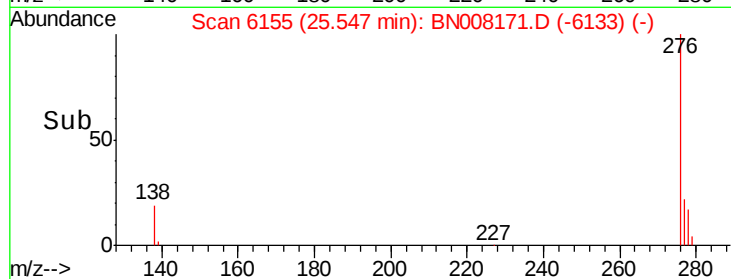
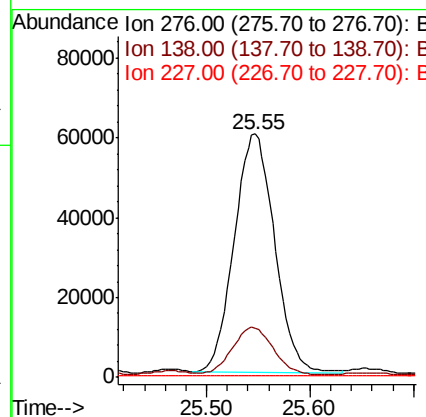
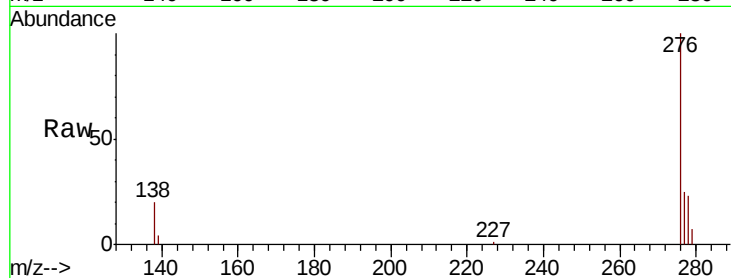
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 2.837 ng/ul  
RT: 25.55 min Scan# 6155  
Delta R.T. -0.03 min  
Lab File: BN008171.D  
Acq: 15 Oct 2019 13:51

Instrument :  
BNA\_N  
ClientSampleId :  
BEP83

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

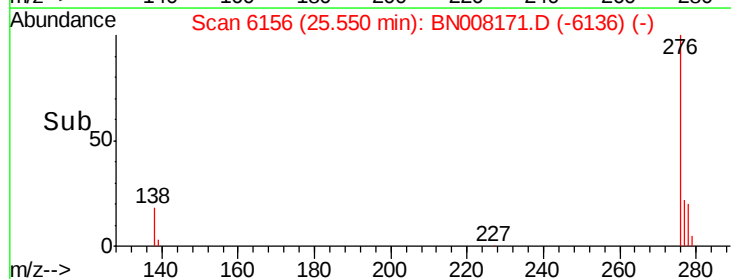
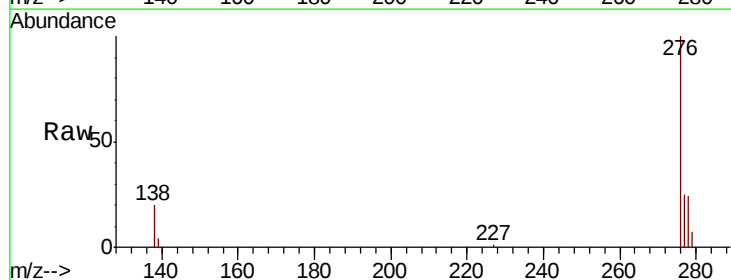
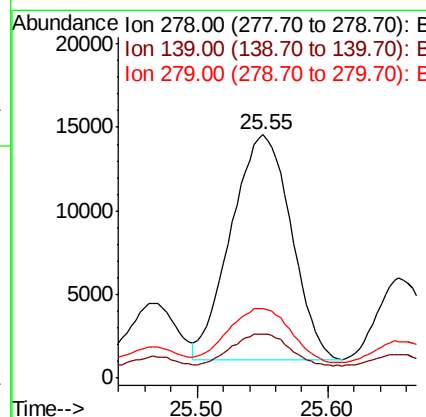
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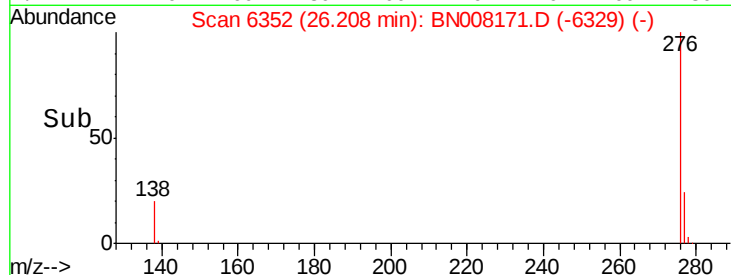
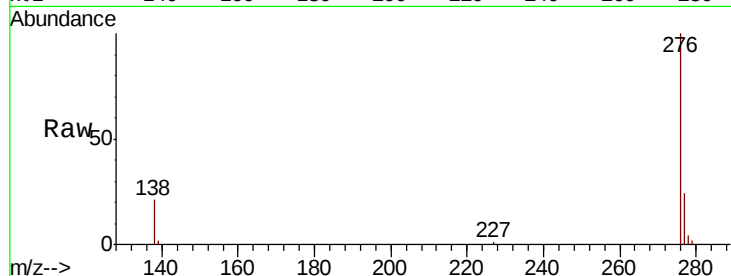
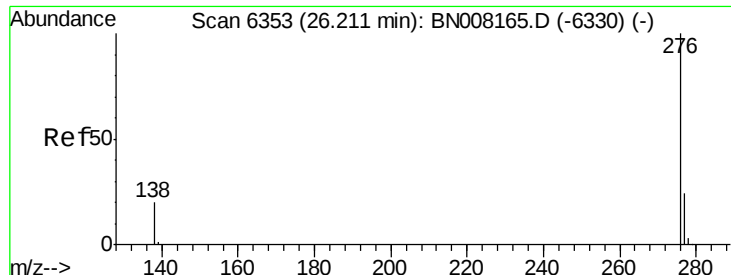
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#25  
Dibenzo(a,h)anthracene  
Concen: 0.942 ng/ul  
RT: 25.55 min Scan# 6156  
Delta R.T. -0.03 min  
Lab File: BN008171.D  
Acq: 15 Oct 2019 13:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.2  | 15.0  | 22.6  |
| 279     | 28.7  | 22.4  | 33.6  |





#26  
 Benzo(a,h,i)perylene  
 Concen: 2.549 ng/ul  
 RT: 26.21 min Scan# 6352  
 Delta R.T. -0.02 min  
 Lab File: BN008171.D  
 Acq: 15 Oct 2019 13:51

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEP83

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.9  | 17.0  | 25.4  |
| 277     | 24.4  | 20.4  | 30.6  |

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