

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN121919\  
 Data File : BN009060.D  
 Acq On : 20 Dec 2019 09:44  
 Operator : JU  
 Sample : K6171-16  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0BZ2

Manual Integrations  
 APPROVED

Sohil  
 12/20/2019 4:30:10 PM

Quant Time: Dec 20 11:15:36 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN121619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 19 15:54:16 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.54  | 152  | 3730     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.29 | 136  | 14581    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.17 | 164  | 7970     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.92 | 188  | 16309    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.12 | 240  | 9152     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.26 | 264  | 8065     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.89 | 152  | 3827     | 0.15   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.95 | 212  | 8551     | 0.18   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.34 | 128  | 1662     | 0.038  | ng/ul# | 87       |
| 5) 2-Methylnaphthalene      | 11.96 | 142  | 1001     | 0.030  | ng/ul  | 97       |
| 7) Acenaphthylene           | 13.88 | 152  | 8212     | 0.196  | ng/ul  | 98       |
| 8) Acenaphthene             | 14.23 | 153  | 3378     | 0.103  | ng/ul  | 99       |
| 9) Fluorene                 | 15.22 | 166  | 13289    | 0.342  | ng/ul  | 99       |
| 12) Phenanthrene            | 16.95 | 178  | 193617   | 3.414  | ng/ul  | 99       |
| 13) Anthracene              | 17.05 | 178  | 38203    | 0.751  | ng/ul  | 99       |
| 15) Fluoranthene            | 18.98 | 202  | 360043   | 5.551  | ng/ul  | 99       |
| 17) Pyrene                  | 19.34 | 202  | 266295   | 5.703  | ng/ul  | 100      |
| 18) Benzo(a)anthracene      | 21.10 | 228  | 101443   | 2.496  | ng/ul  | 98       |
| 19) Chrysene                | 21.15 | 228  | 89856    | 2.200  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.63 | 252  | 105464m  | 2.801  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.66 | 252  | 36731m   | 0.967  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.16 | 252  | 69950    | 2.120  | ng/ul  | 96       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.36 | 276  | 47243    | 1.314  | ng/ul# | 91       |
| 25) Dibenzo(a,h)anthracene  | 25.36 | 278  | 10562    | 0.369  | ng/ul# | 88       |
| 26) Benzo(a,h,i)perylene    | 25.99 | 276  | 45102    | 1.490  | ng/ul  | 99       |

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

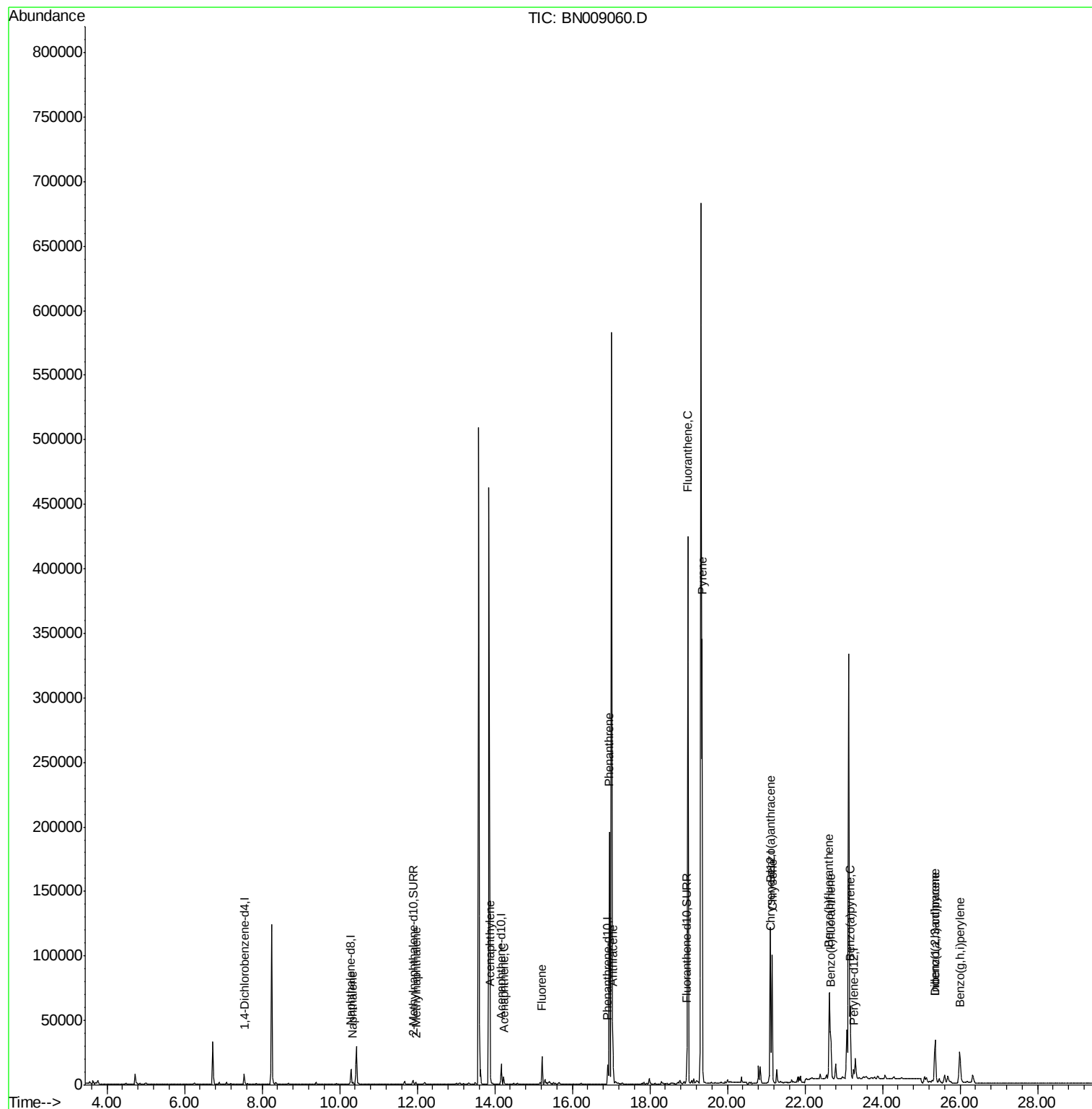
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN121919\  
Data File : BN009060.D  
Acq On : 20 Dec 2019 09:44  
Operator : JU  
Sample : K6171-16  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

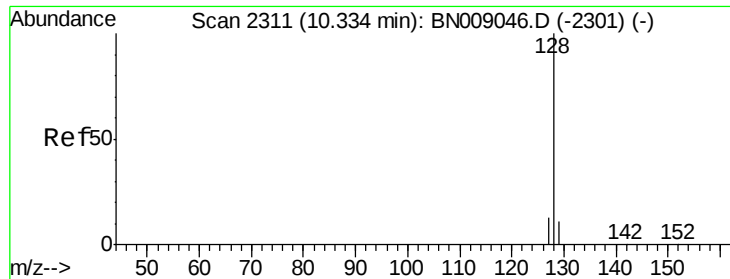
Instrument :  
BNA\_N  
ClientSampleId :  
C0BZ2

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Quant Time: Dec 20 11:15:36 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN121619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 19 15:54:16 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.038 ng/ul

RT: 10.34 min Scan# 2312

Delta R.T. -0.01 min

Lab File: BN009060.D

Acq: 20 Dec 2019 09:44

Instrument :

BNA\_N

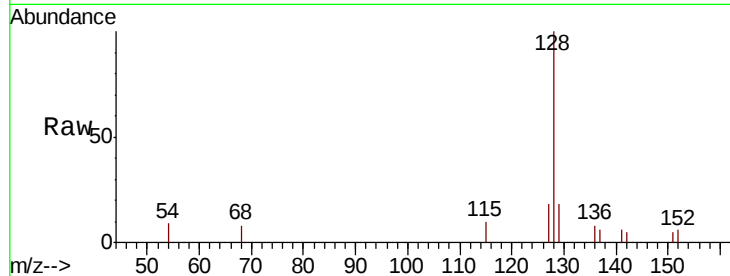
ClientSampled :

C0BZ2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 1662  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 17.6  | 9.0   | 13.4# |
| 127       | 17.7  | 10.9  | 16.3# |

Manual Integrations  
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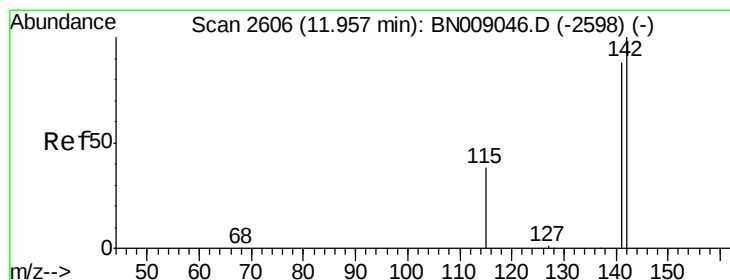
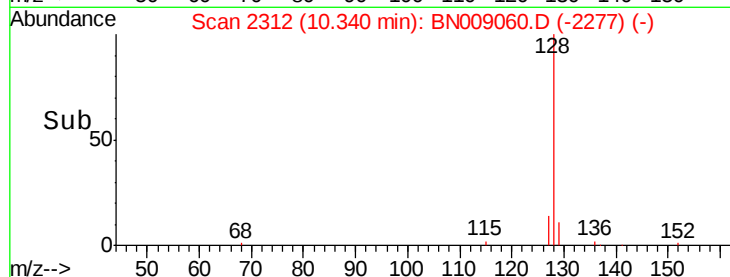
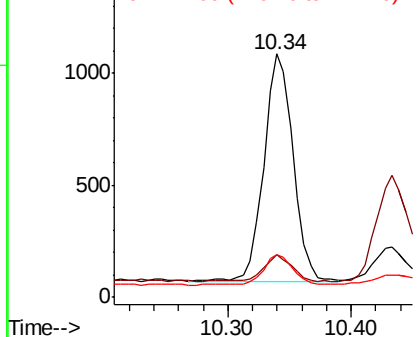
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.030 ng/ul

RT: 11.96 min Scan# 2607

Delta R.T. -0.01 min

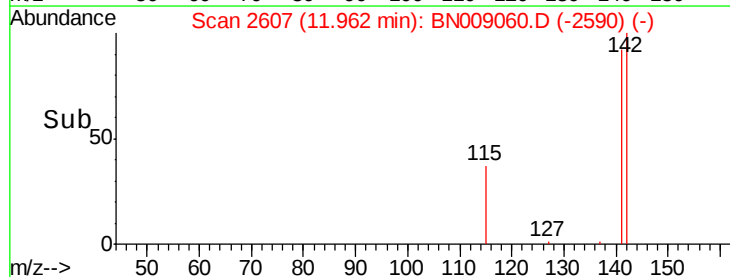
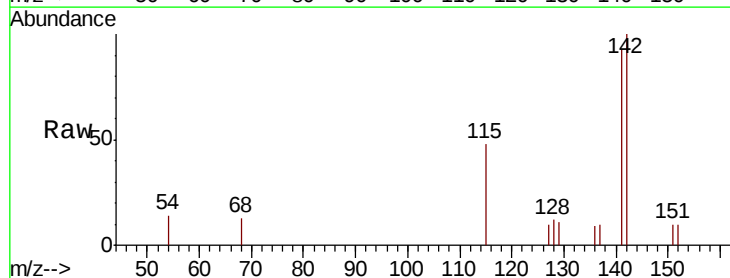
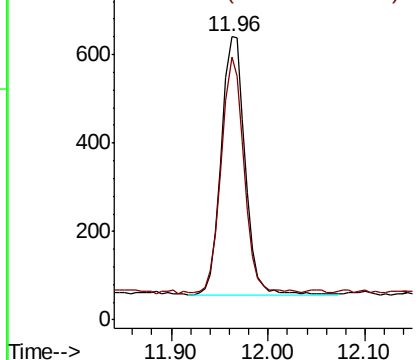
Lab File: BN009060.D

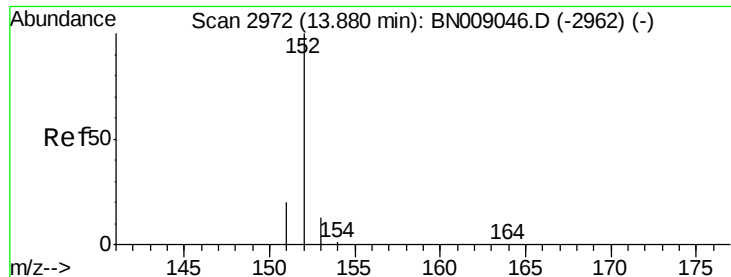
Acq: 20 Dec 2019 09:44

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 1001  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 85.4  | 70.2  | 105.4 |

Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.196 ng/ul

RT: 13.88 min Scan# 2973

Delta R.T. -0.00 min

Lab File: BN009060.D

Acq: 20 Dec 2019 09:44

Instrument :

BNA\_N

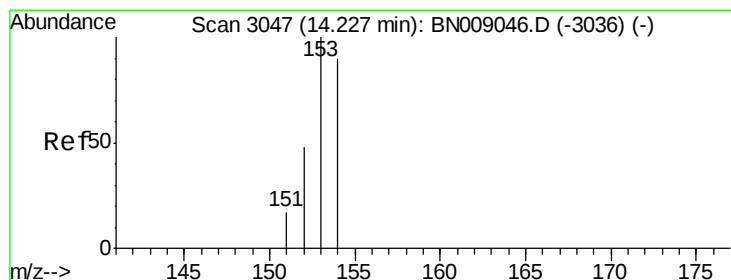
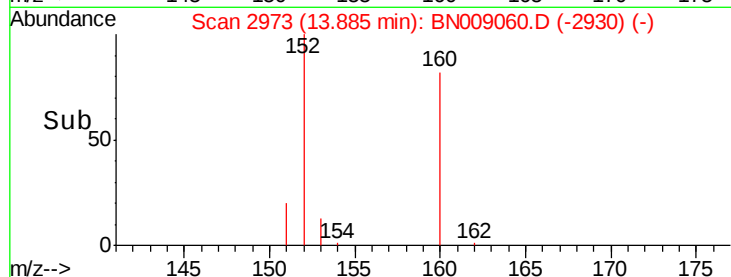
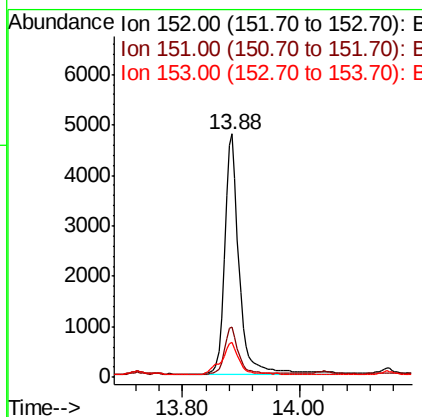
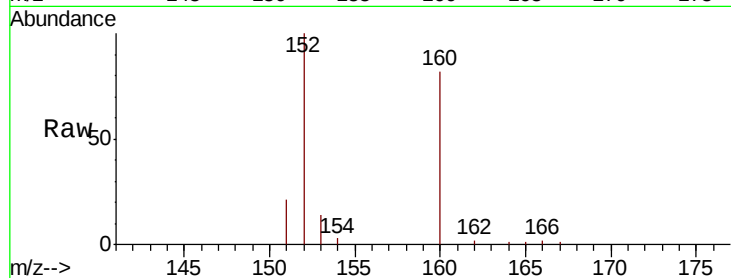
ClientSampleId :

C0BZ2

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 152   | Resp: | 8212 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.7  | 15.7  | 23.5 |
| 153       | 14.4  | 10.8  | 16.2 |

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#8

Acenaphthene

Concen: 0.103 ng/ul

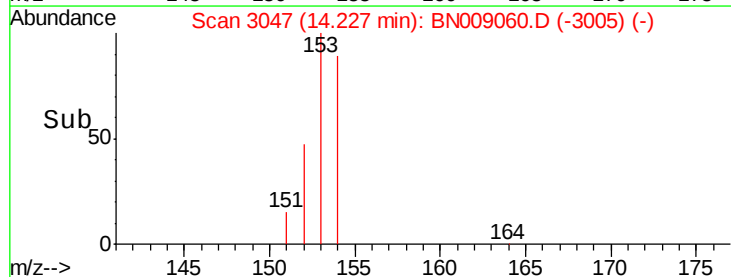
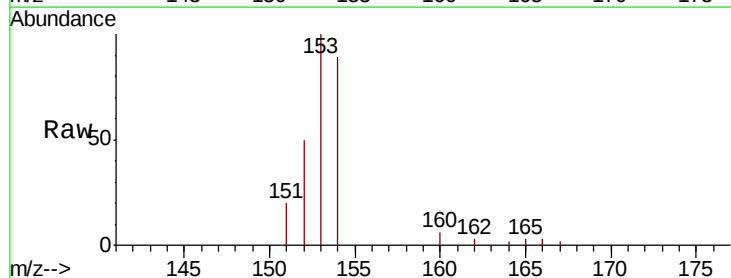
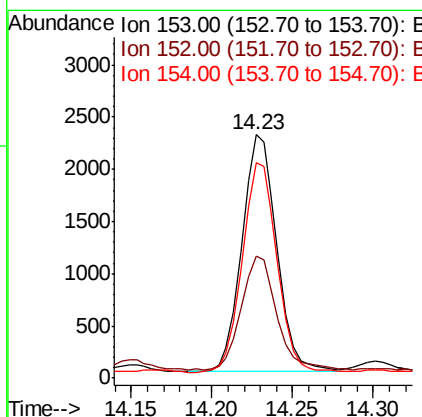
RT: 14.23 min Scan# 3047

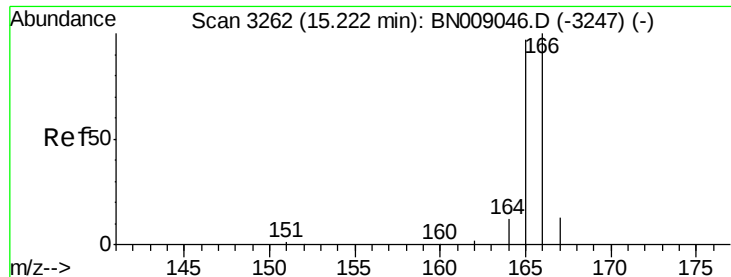
Delta R.T. -0.00 min

Lab File: BN009060.D

Acq: 20 Dec 2019 09:44

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 3378  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 49.9  | 39.5  | 59.3  |
| 154       | 88.7  | 71.3  | 106.9 |





#9

Fluorene

Concen: 0.342 ng/ul

RT: 15.22 min Scan# 3262

Delta R.T. -0.00 min

Lab File: BN009060.D

Acq: 20 Dec 2019 09:44

Instrument :

BNA\_N

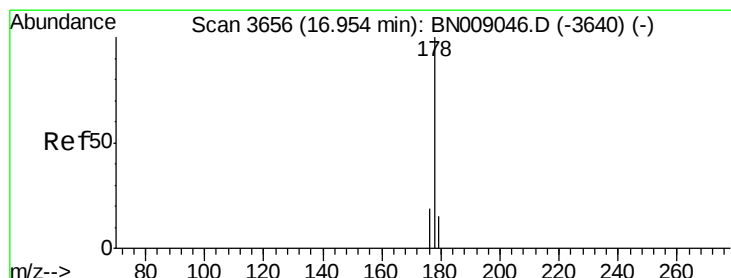
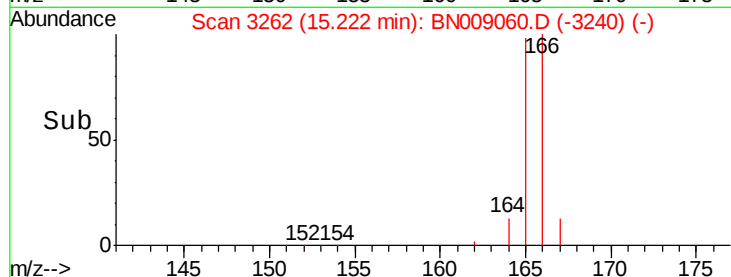
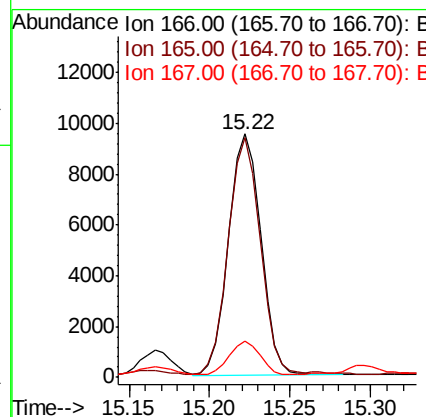
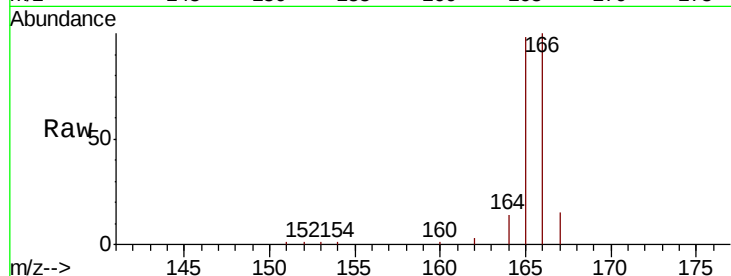
ClientSampleId :

C0BZ2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 13289 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 98.3  | 78.2  | 117.4 |
| 167       | 14.6  | 11.0  | 16.6  |

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#12

Phenanthrene

Concen: 3.414 ng/ul

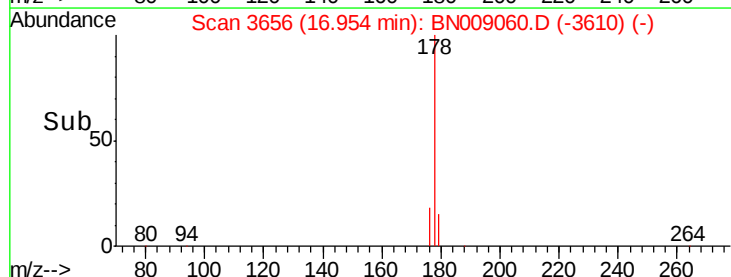
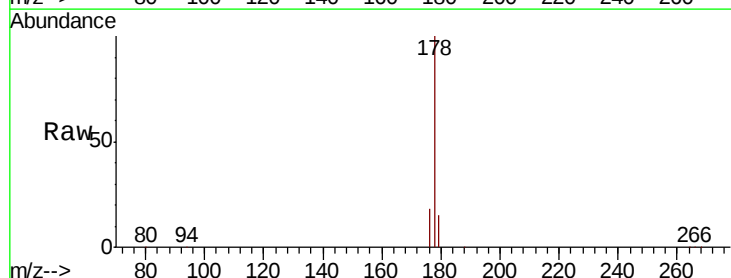
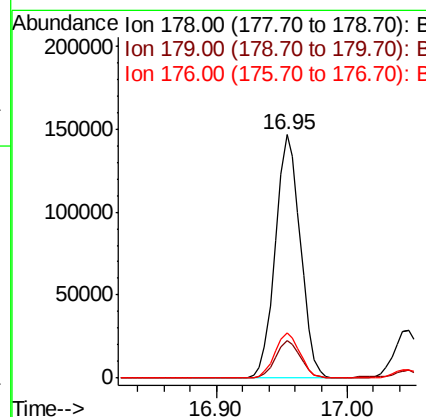
RT: 16.95 min Scan# 3656

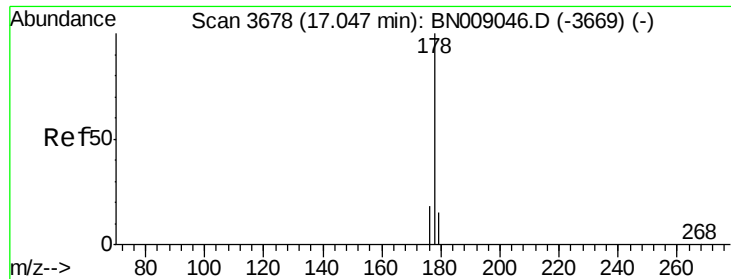
Delta R.T. -0.00 min

Lab File: BN009060.D

Acq: 20 Dec 2019 09:44

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 193617 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.2  | 12.3  | 18.5   |
| 176       | 18.5  | 15.1  | 22.7   |





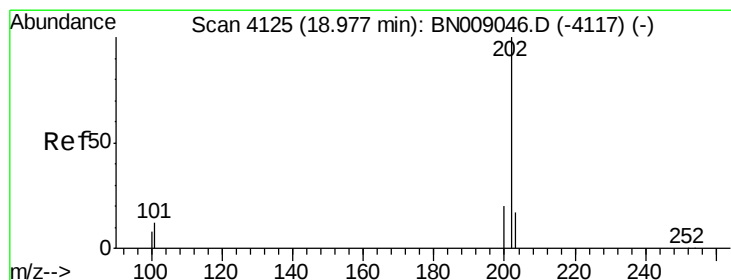
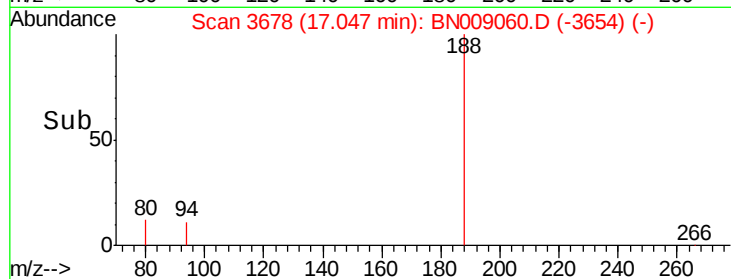
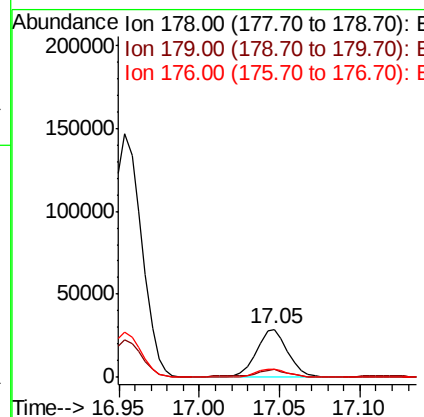
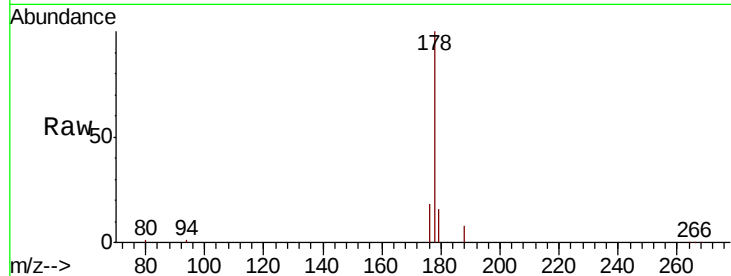
#13  
 Anthracene  
 Concen: 0.751 ng/ul  
 RT: 17.05 min Scan# 3678  
 Delta R.T. -0.00 min  
 Lab File: BN009060.D  
 Acq: 20 Dec 2019 09:44

Instrument :  
 BNA\_N  
 ClientSampled :  
 C0BZ2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.6  | 12.5  | 18.7  |
| 176     | 18.1  | 14.9  | 22.3  |

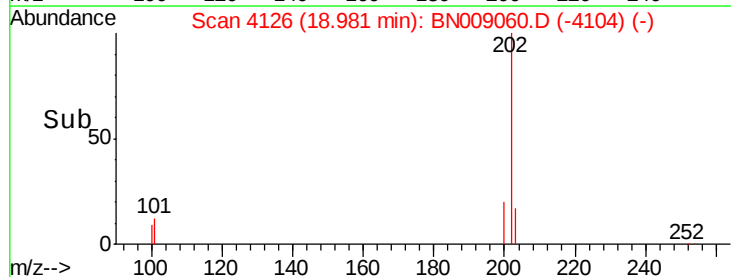
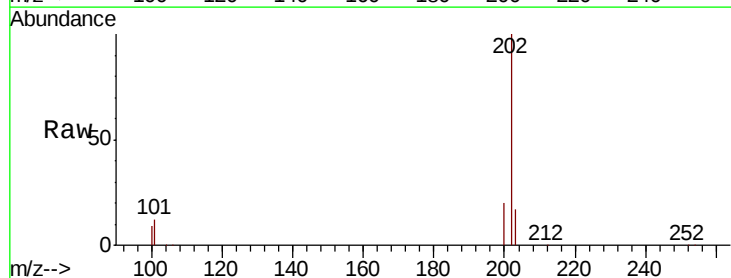
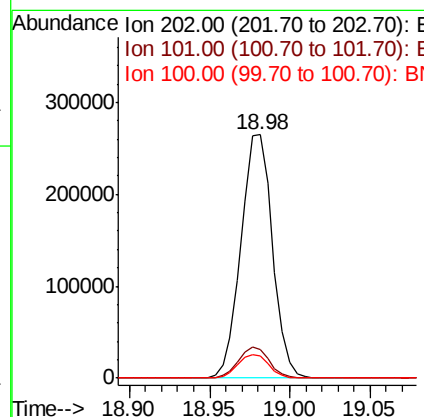
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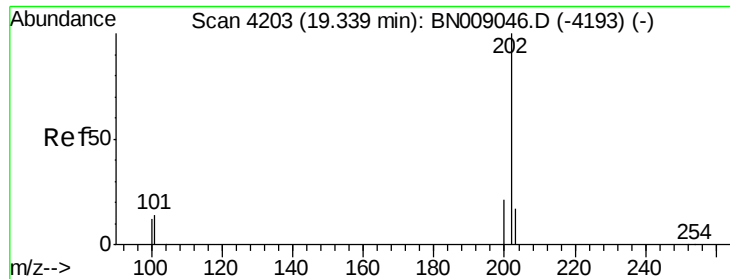
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 12/20/2019 4:30:10 PM



#15  
 Fluoranthene  
 Concen: 5.551 ng/ul  
 RT: 18.98 min Scan# 4126  
 Delta R.T. -0.00 min  
 Lab File: BN009060.D  
 Acq: 20 Dec 2019 09:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.9  | 0.0   | 31.5  |
| 100     | 8.9   | 0.0   | 28.9  |





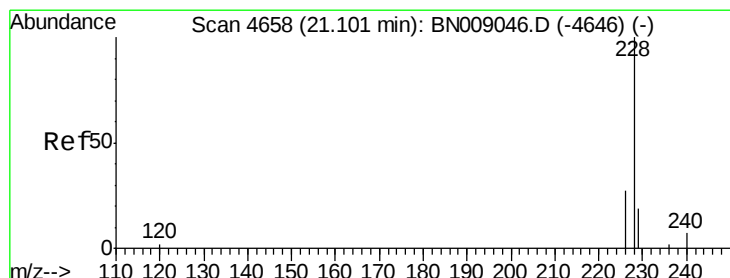
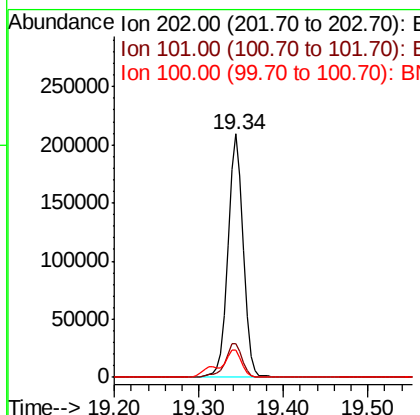
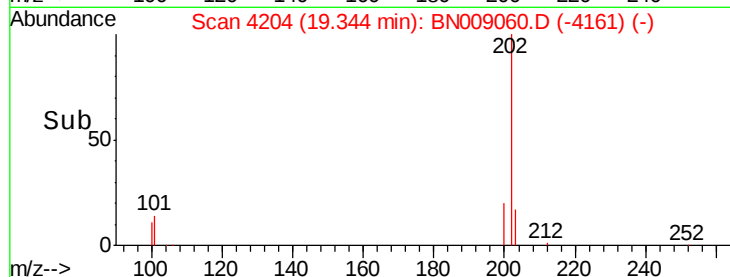
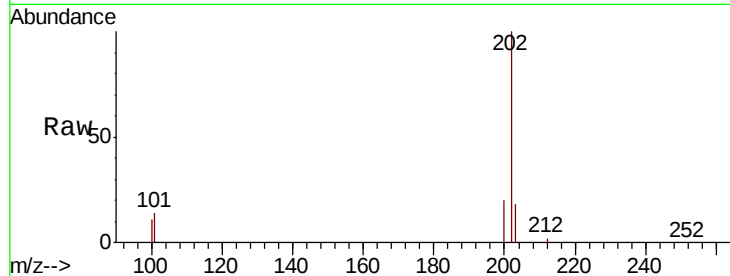
#17  
Pvrene  
Concen: 5.703 ng/ul  
RT: 19.34 min Scan# 4204  
Delta R.T. -0.00 min  
Lab File: BN009060.D  
Acq: 20 Dec 2019 09:44

Instrument :  
BNA\_N  
ClientSampleId :  
C0BZ2

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 13.8  | 10.9       | 16.3       |
| 100     | 11.1  | 9.0        | 13.6       |

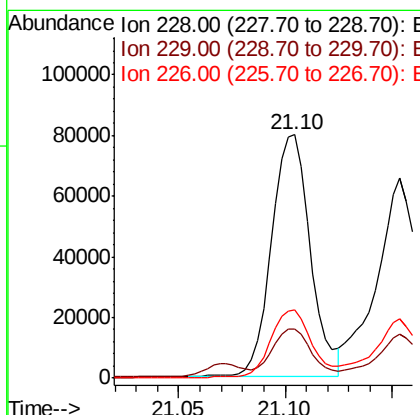
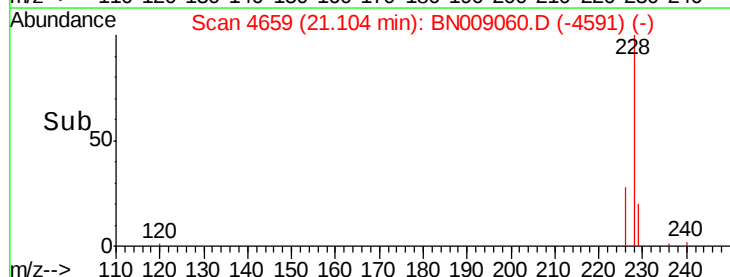
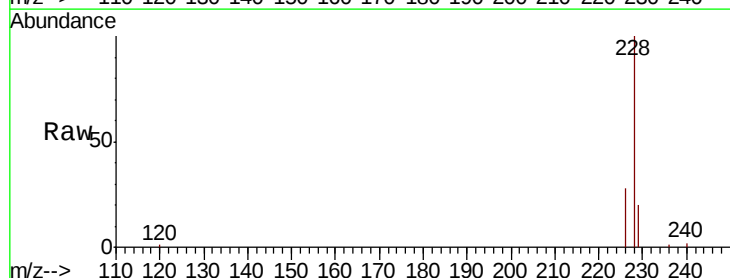
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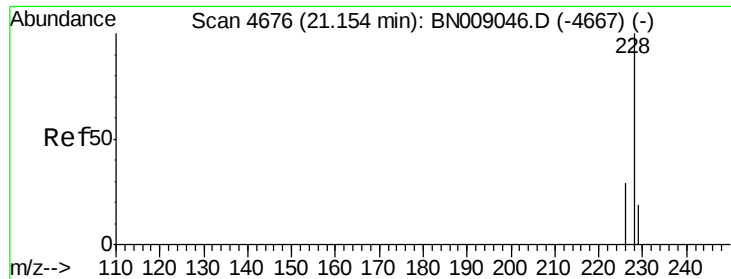
Sohil  
12/20/2019 4:30:10 PM



#18  
Benzo(a)anthracene  
Concen: 2.496 ng/ul  
RT: 21.10 min Scan# 4659  
Delta R.T. -0.00 min  
Lab File: BN009060.D  
Acq: 20 Dec 2019 09:44

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 20.3  | 15.5       | 23.3       |
| 226     | 27.8  | 21.7       | 32.5       |





#19

Chrysene

Concen: 2.200 ng/ul

RT: 21.15 min Scan# 4676

Delta R.T. -0.00 min

Lab File: BN009060.D

Acq: 20 Dec 2019 09:44

Instrument :

BNA\_N

ClientSampleId :

C0BZ2

Tot Ion:228 Resp: 89856

Ion Ratio Lower Upper

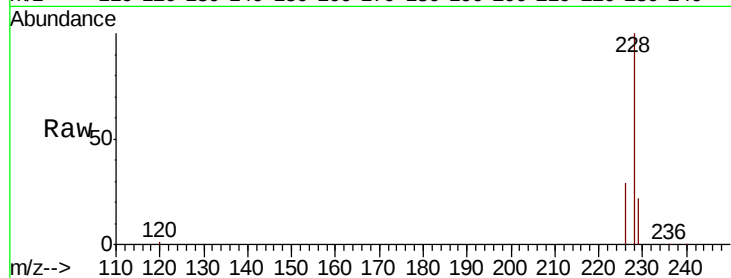
228 100

226 29.4 23.7 35.5

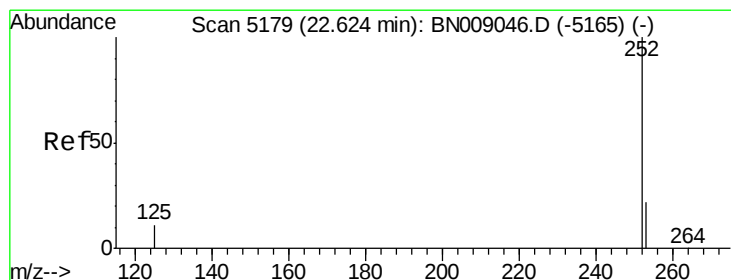
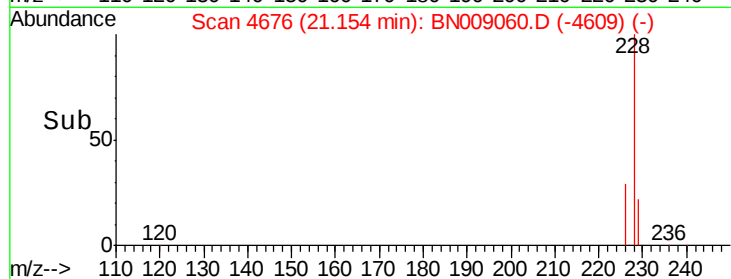
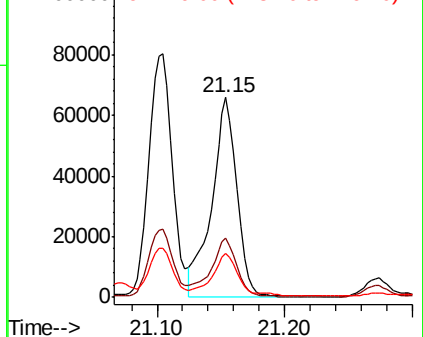
229 22.2 15.4 23.0

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Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



#21

Benzo(b)fluoranthene

Concen: 2.801 ng/ul m

RT: 22.63 min Scan# 5180

Delta R.T. -0.00 min

Lab File: BN009060.D

Acq: 20 Dec 2019 09:44

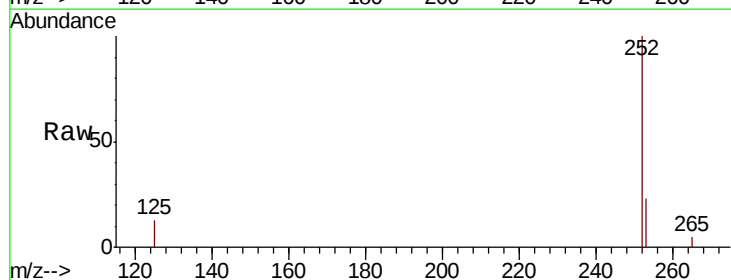
Tgt Ion:252 Resp: 105464

Ion Ratio Lower Upper

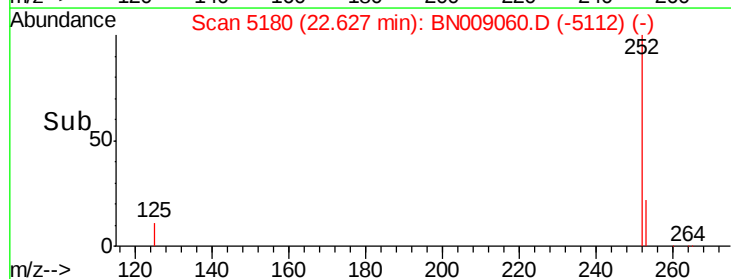
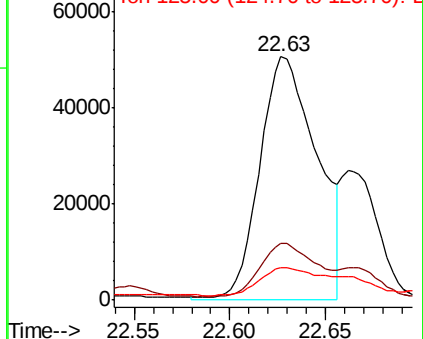
252 100

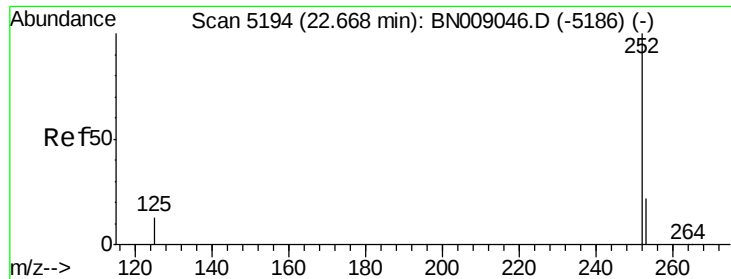
253 23.4 0.0 48.2

125 13.3 0.0 30.0



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





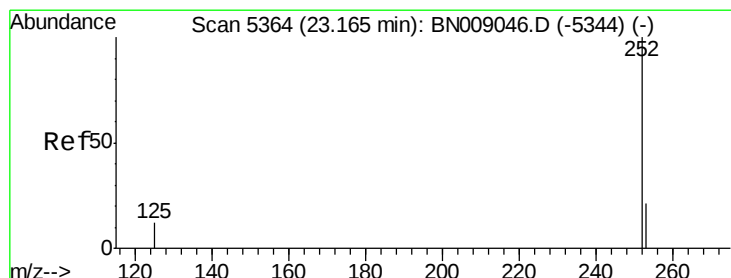
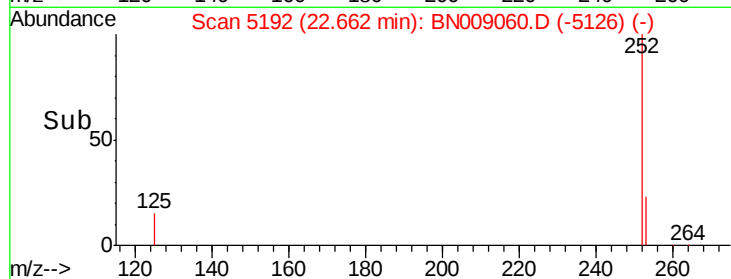
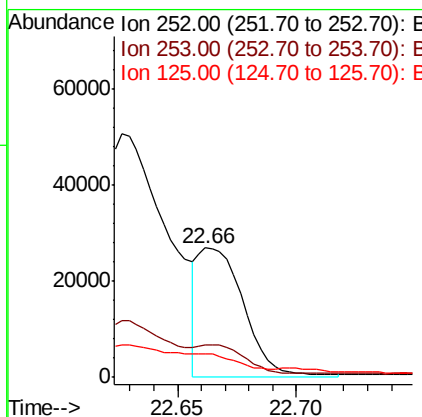
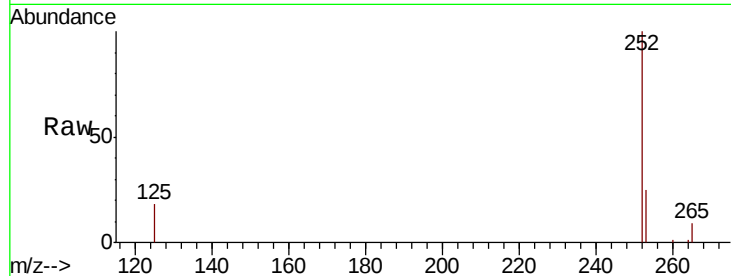
#22  
Benzo(k)fluoranthene  
Concen: 0.967 ng/ul m  
RT: 22.66 min Scan# 5192  
Delta R.T. -0.01 min  
Lab File: BN009060.D  
Acq: 20 Dec 2019 09:44

Instrument :  
BNA\_N  
ClientSampleId :  
C0BZ2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 19.4  | 29.0  |
| 125     | 18.3  | 12.4  | 18.6  |

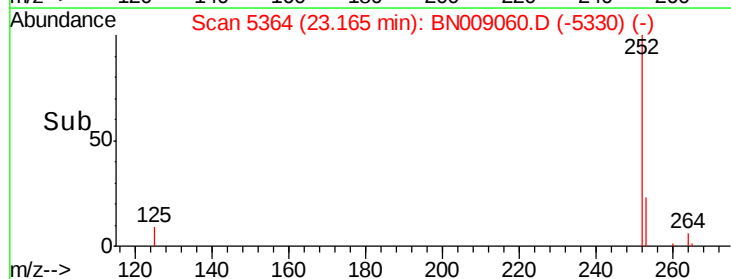
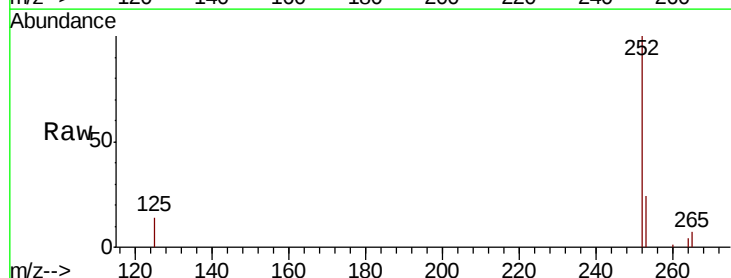
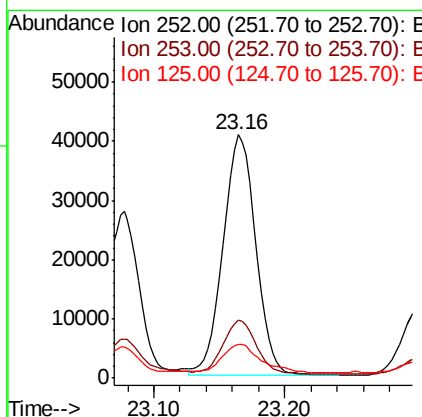
Manual Integrations  
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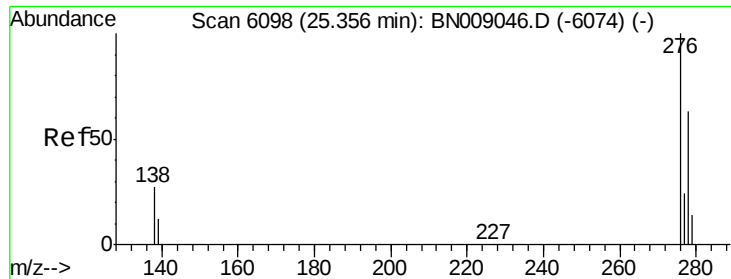
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#23  
Benzo(a)pyrene  
Concen: 2.120 ng/ul  
RT: 23.16 min Scan# 5364  
Delta R.T. -0.00 min  
Lab File: BN009060.D  
Acq: 20 Dec 2019 09:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 20.2  | 30.4  |
| 125     | 14.1  | 13.2  | 19.8  |





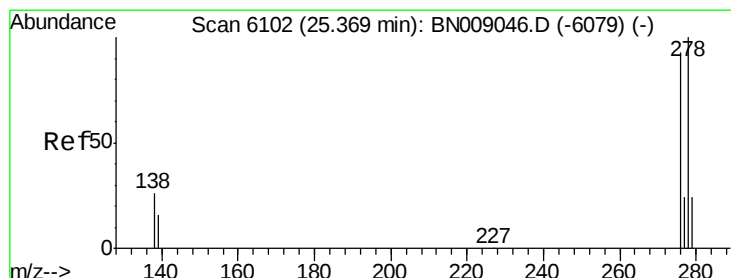
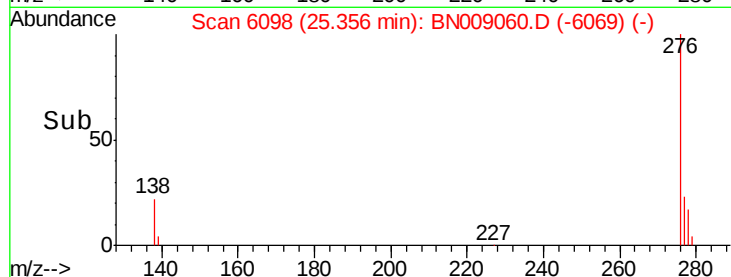
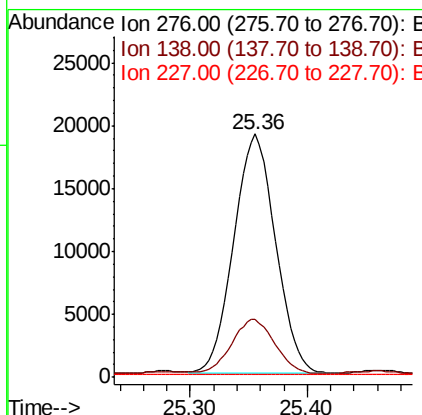
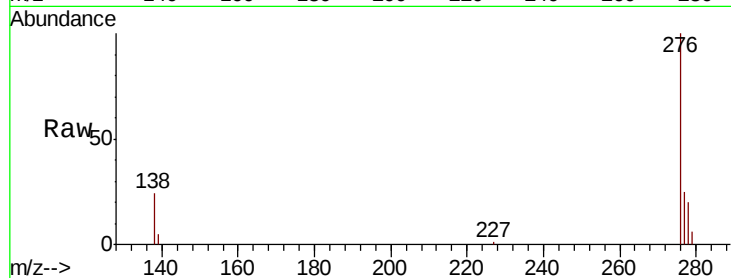
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.314 ng/ul  
 RT: 25.36 min Scan# 6098  
 Delta R.T. -0.00 min  
 Lab File: BN009060.D  
 Acq: 20 Dec 2019 09:44

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0BZ2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.0  | 22.4  | 33.6  |
| 227     | 0.1   | 0.2   | 0.4   |

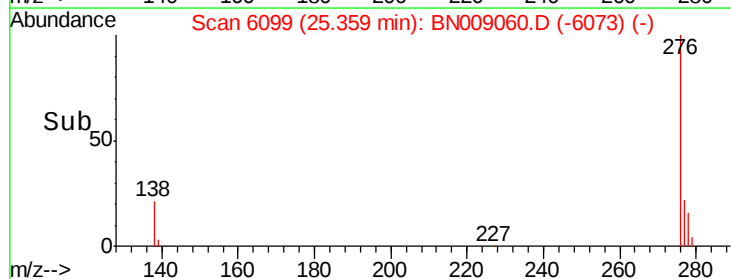
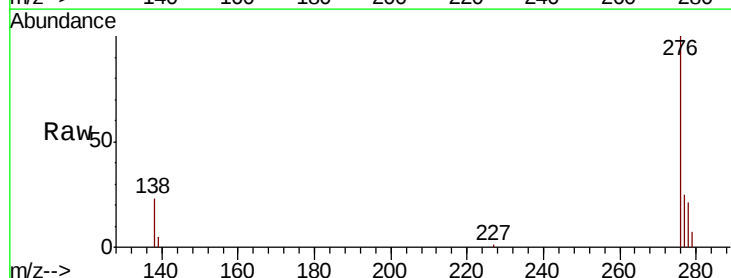
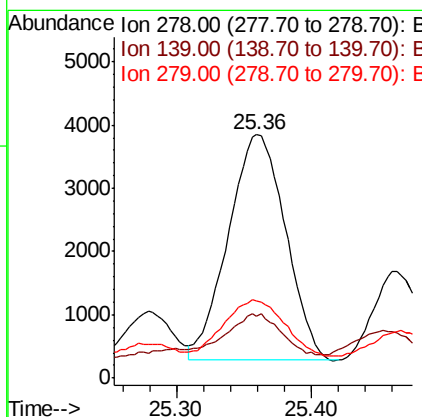
Manual Integrations  
 APPROVED

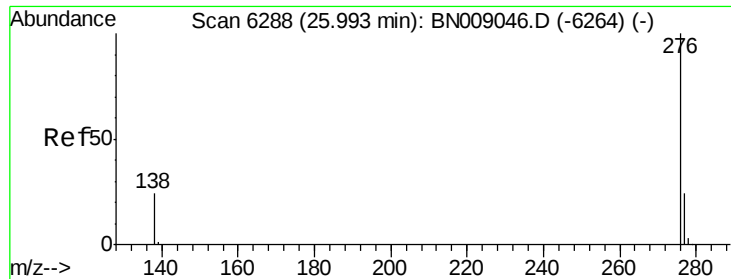
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 12/20/2019 4:30:10 PM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.369 ng/ul  
 RT: 25.36 min Scan# 6099  
 Delta R.T. -0.01 min  
 Lab File: BN009060.D  
 Acq: 20 Dec 2019 09:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 25.6  | 16.2  | 24.2  |
| 279     | 31.7  | 20.3  | 30.5  |





#26  
Benzo(a,h,i)perylene  
Concen: 1.490 ng/ul  
RT: 25.99 min Scan# 6288  
Delta R.T. -0.00 min  
Lab File: BN009060.D  
Acq: 20 Dec 2019 09:44

Instrument :  
BNA\_N  
ClientSampleId :  
C0BZ2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.7  | 20.6  | 30.8  |
| 277     | 24.3  | 19.6  | 29.4  |

Manual Integrations  
APPROVED

Sohil  
12/20/2019 4:30:10 PM

