

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\  
 Data File : BN008106.D  
 Acq On : 12 Oct 2019 10:34  
 Operator : JU  
 Sample : K5124-15  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 JLM91

Manual Integrations  
 APPROVED

mohammad  
 10/15/2019 7:58:24 AM

Quant Time: Oct 13 02:44:10 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  | 3531     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.39 | 136  | 16477    | 0.40  | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.26 | 164  | 11069    | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.01 | 188  | 24899m   | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.21 | 240  | 24566m   | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.41 | 264  | 18634m   | 0.40  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.00 | 152  | 10314    | 0.37  | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.05 | 212  | 31985m   | 0.37  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.44 | 128  | 6218     | 0.133 | ng/ul  | 98       |
| 5) 2-Methylnaphthalene      | 12.07 | 142  | 3066     | 0.095 | ng/ul  | 100      |
| 7) Acenaphthylene           | 13.98 | 152  | 8570     | 0.163 | ng/ul# | 94       |
| 8) Acenaphthene             | 14.32 | 153  | 1049     | 0.026 | ng/ul# | 91       |
| 9) Fluorene                 | 15.32 | 166  | 2634     | 0.057 | ng/ul# | 80       |
| 11) Pentachlorophenol       | 16.68 | 266  | 688m     | 0.114 | ng/ul  |          |
| 12) Phenanthrene            | 17.05 | 178  | 40517    | 0.556 | ng/ul  | 99       |
| 13) Anthracene              | 17.14 | 178  | 6066m    | 0.095 | ng/ul  |          |
| 15) Fluoranthene            | 19.08 | 202  | 69241m   | 0.719 | ng/ul  |          |
| 17) Pyrene                  | 19.44 | 202  | 69351    | 0.709 | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.20 | 228  | 27586m   | 0.309 | ng/ul  |          |
| 19) Chrysene                | 21.25 | 228  | 36563m   | 0.334 | ng/ul  |          |
| 21) Benzo(b)fluoranthene    | 22.76 | 252  | 37362m   | 0.616 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.79 | 252  | 10866m   | 0.158 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.32 | 252  | 25062    | 0.393 | ng/ul# | 31       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.59 | 276  | 14528    | 0.193 | ng/ul# | 91       |
| 25) Dibenzo(a,h)anthracene  | 25.59 | 278  | 4137     | 0.070 | ng/ul# | 1        |
| 26) Benzo(g,h,i)perylene    | 26.26 | 276  | 18000    | 0.261 | ng/ul# | 68       |

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

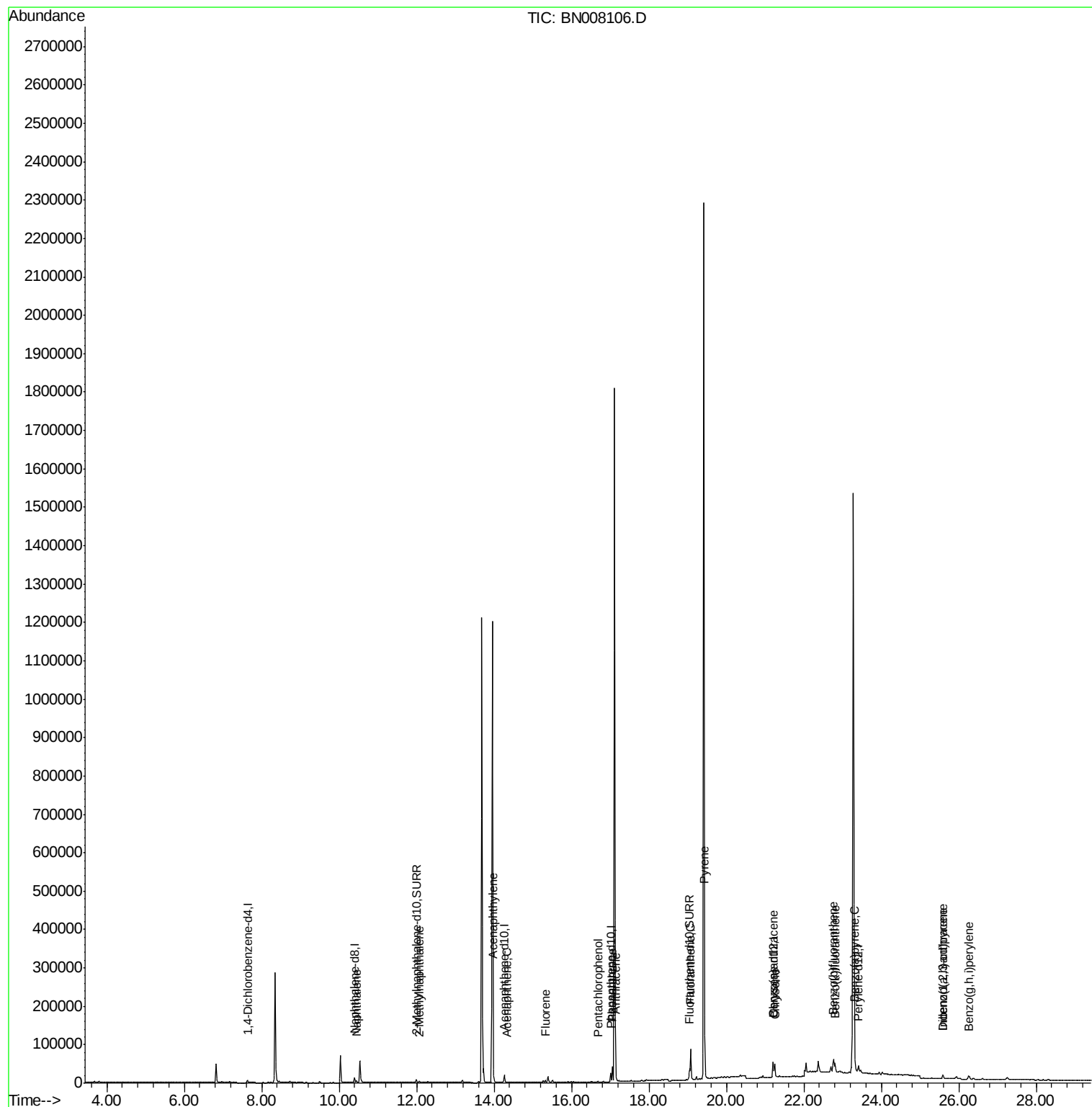
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\  
Data File : BN008106.D  
Acq On : 12 Oct 2019 10:34  
Operator : JU  
Sample : K5124-15  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

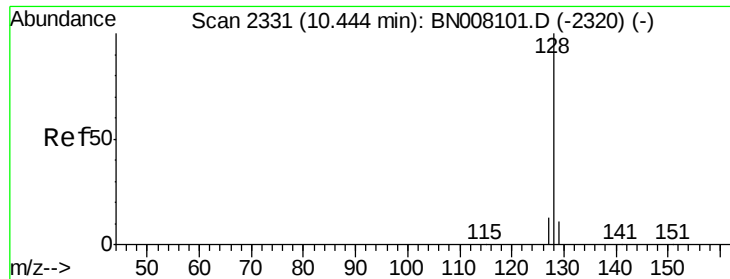
Instrument :  
BNA\_N  
ClientSampleId :  
JLM91

Manual Integrations  
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10/15/2019 7:58:24 AM

Quant Time: Oct 13 02:44:10 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: 0.133 ng/ul

RT: 10.44 min Scan# 2331

Delta R.T. -0.01 min

Lab File: BN008106.D

Acq: 12 Oct 2019 10:34

Instrument :

BNA\_N

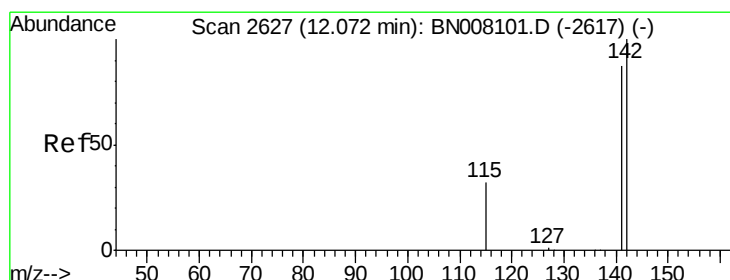
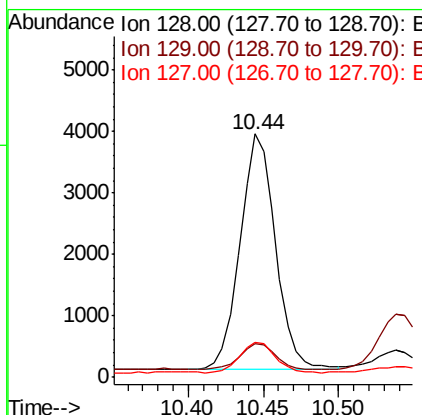
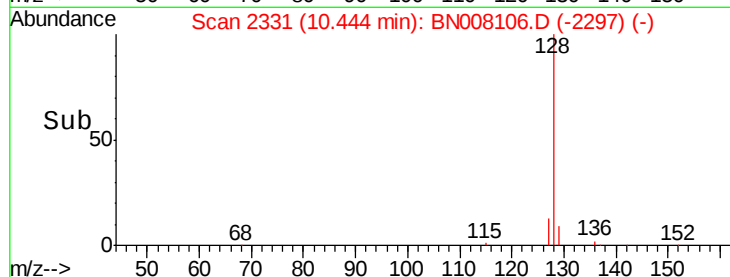
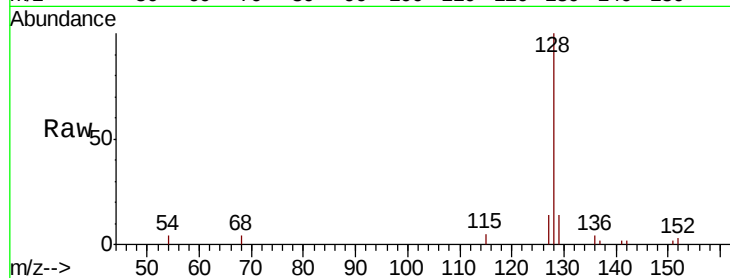
ClientSampleId :

JLM91

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:128 | Resp: | 6218      |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 129         | 13.6  | 9.8 14.8  |
| 127         | 14.5  | 11.1 16.7 |

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#5

2-Methylnaphthalene

Concen: 0.095 ng/ul

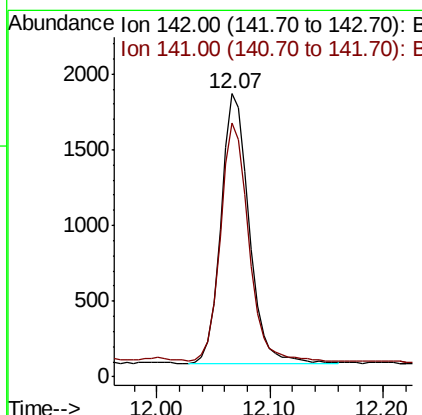
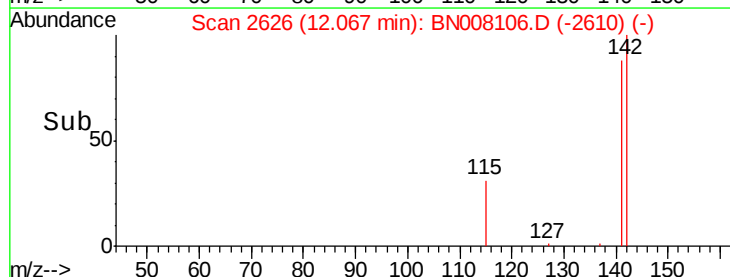
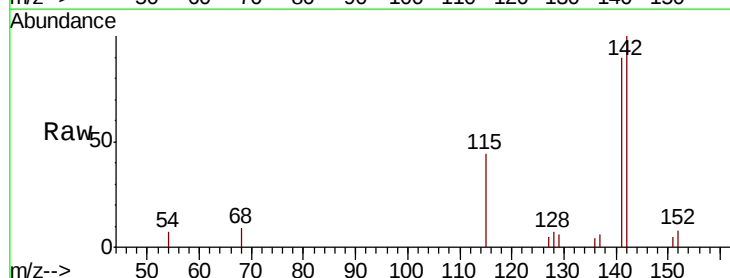
RT: 12.07 min Scan# 2626

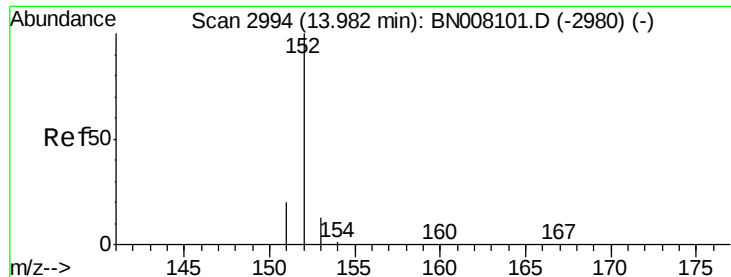
Delta R.T. -0.01 min

Lab File: BN008106.D

Acq: 12 Oct 2019 10:34

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:142 | Resp: | 3066       |
| Ion Ratio   | Lower | Upper      |
| 142         | 100   |            |
| 141         | 88.8  | 71.4 107.2 |





#7

Acenaphthylene

Concen: 0.163 ng/ul

RT: 13.98 min Scan# 2994

Delta R.T. -0.00 min

Lab File: BN008106.D

Acq: 12 Oct 2019 10:34

Instrument :

BNA\_N

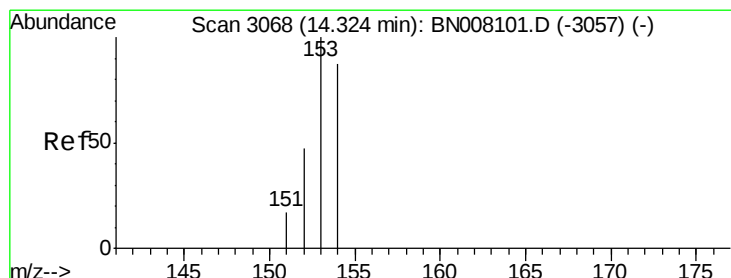
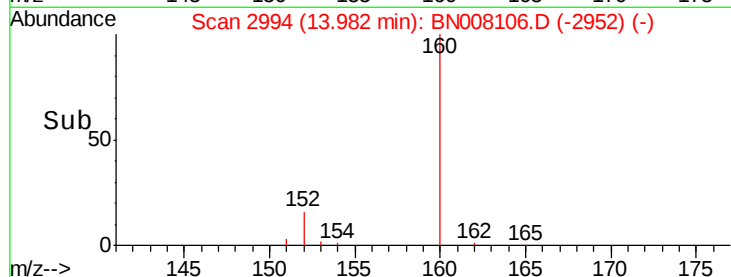
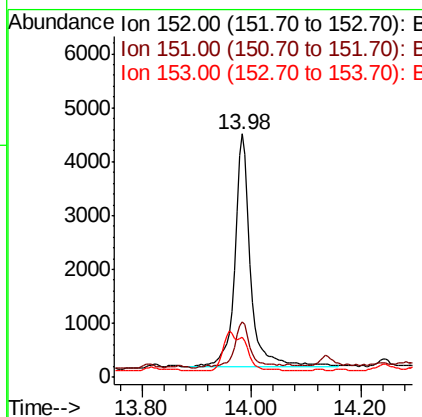
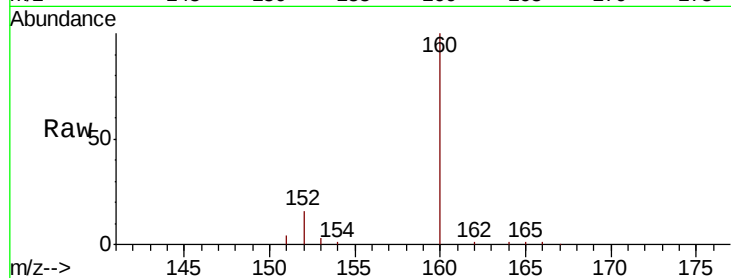
ClientSampleId :

JLM91

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 8570  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 22.8  | 16.2  | 24.4  |
| 153       | 16.5  | 11.0  | 16.4# |

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#8

Acenaphthene

Concen: 0.026 ng/ul

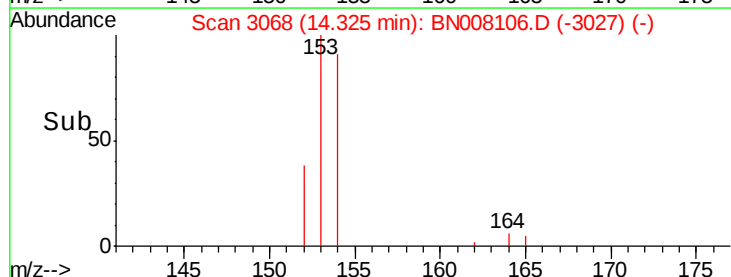
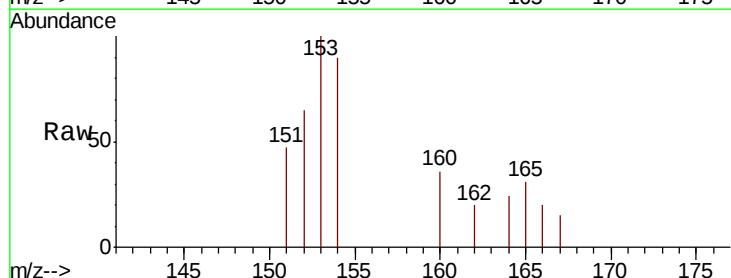
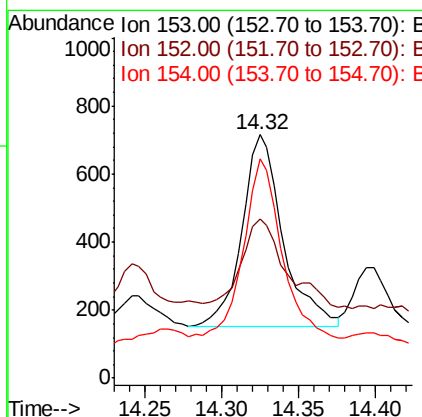
RT: 14.32 min Scan# 3068

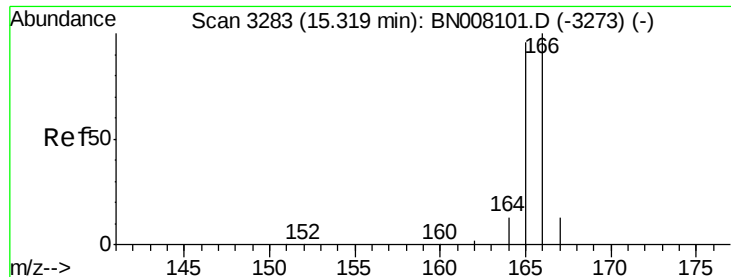
Delta R.T. -0.01 min

Lab File: BN008106.D

Acq: 12 Oct 2019 10:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 1049  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 65.4  | 38.2  | 57.2# |
| 154       | 89.8  | 71.8  | 107.8 |





#9

Fluorene

Concen: 0.057 ng/ul

RT: 15.32 min Scan# 3283

Delta R.T. -0.00 min

Lab File: BN008106.D

Acq: 12 Oct 2019 10:34

Instrument :

BNA\_N

ClientSampleId :

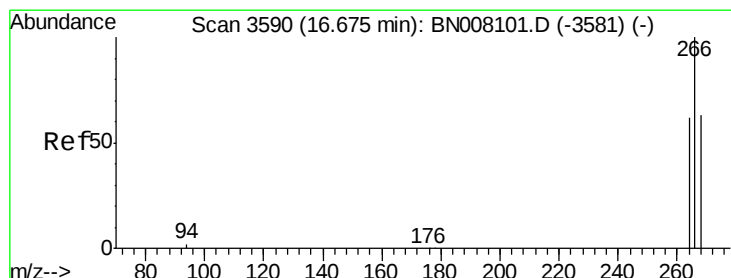
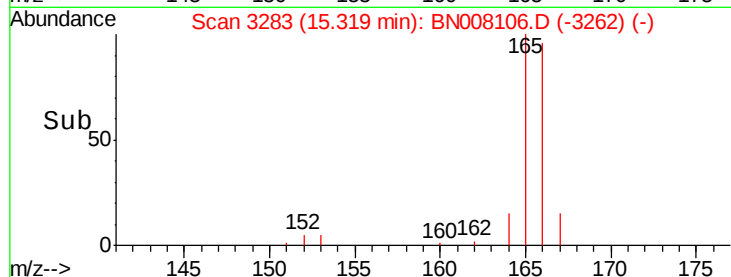
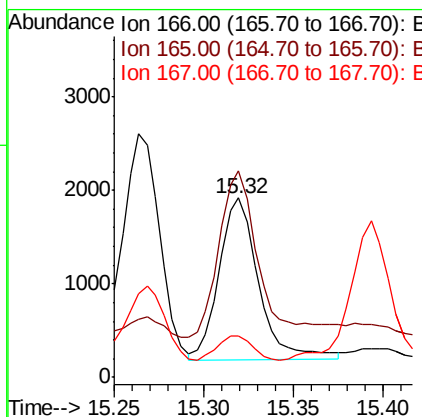
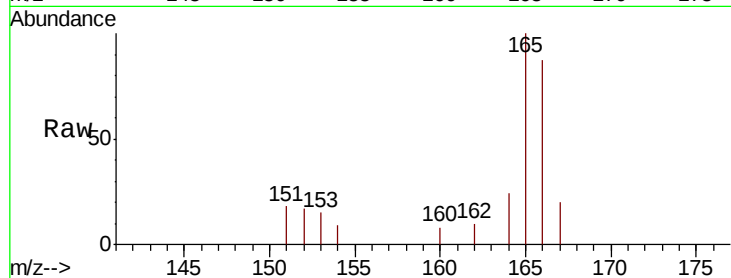
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Tot Ion:166 Resp: 2634

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 114.9 | 76.6  | 115.0 |
| 167 | 23.1  | 11.7  | 17.5# |

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#11

Pentachlorophenol

Concen: 0.114 ng/ul m

RT: 16.68 min Scan# 3590

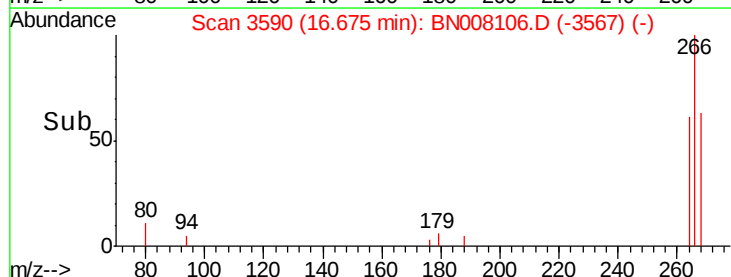
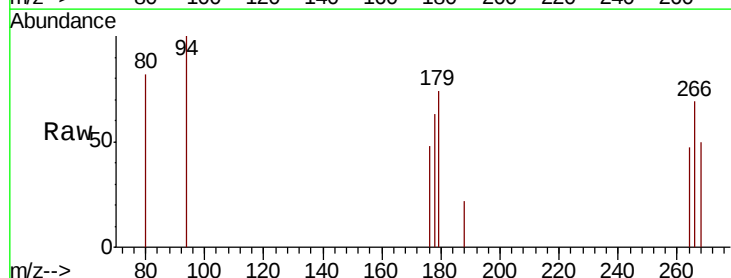
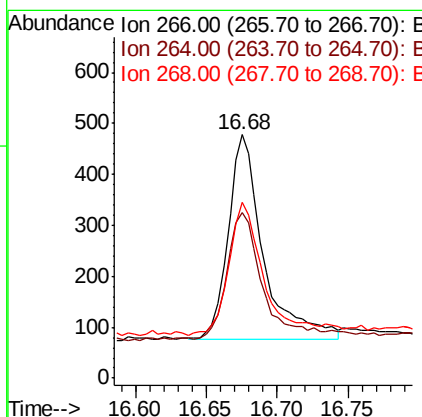
Delta R.T. -0.00 min

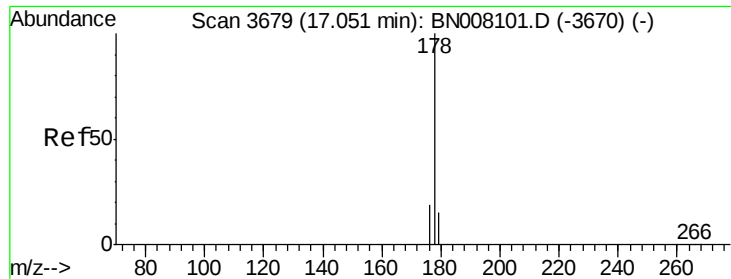
Lab File: BN008106.D

Acq: 12 Oct 2019 10:34

Tgt Ion:266 Resp: 688

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 266 | 100   |       |       |
| 264 | 0.0   | 50.1  | 75.1# |
| 268 | 0.0   | 51.9  | 77.9# |





#12

Phenanthrene

Concen: 0.556 ng/ul

RT: 17.05 min Scan# 3679

Delta R.T. -0.00 min

Lab File: BN008106.D

Acq: 12 Oct 2019 10:34

Instrument :

BNA\_N

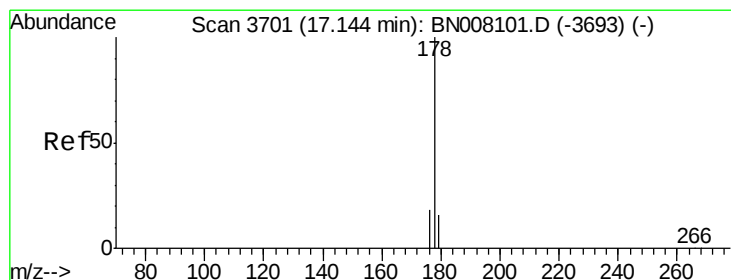
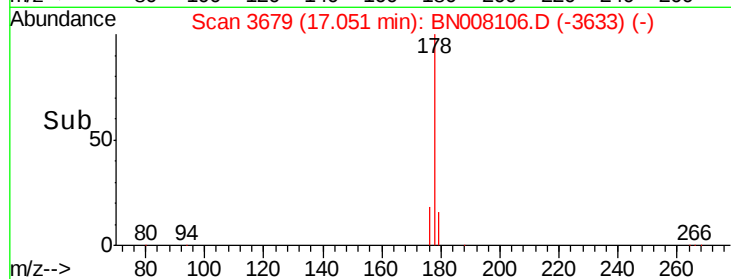
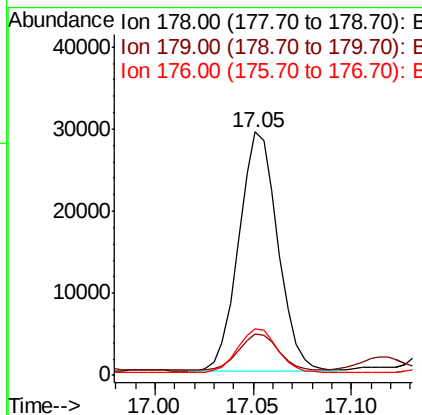
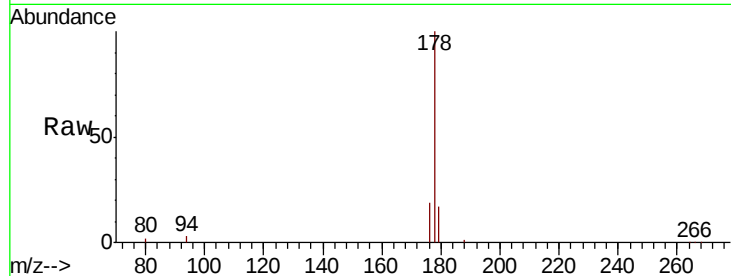
ClientSampleId :

JLM91

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 40517 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 17.2  | 12.8  | 19.2  |
| 176       | 19.2  | 15.4  | 23.2  |

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#13

Anthracene

Concen: 0.095 ng/ul m

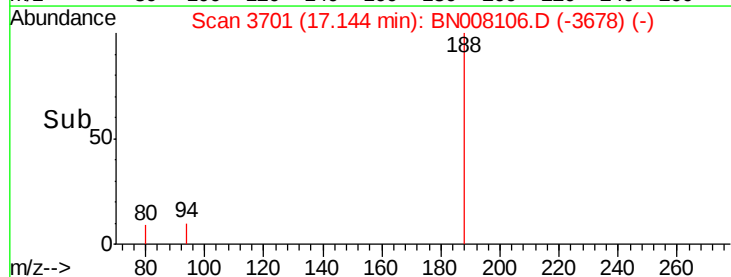
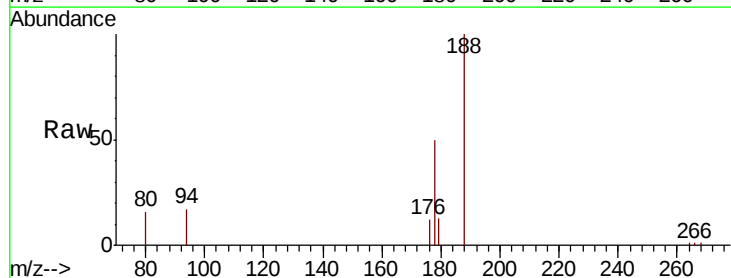
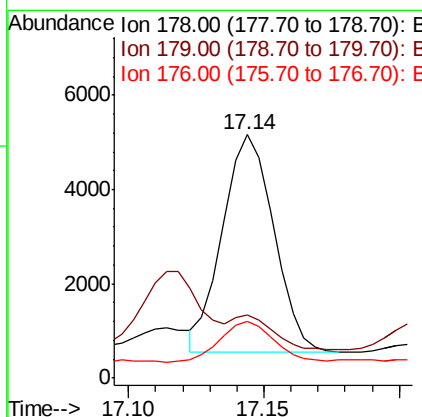
RT: 17.14 min Scan# 3701

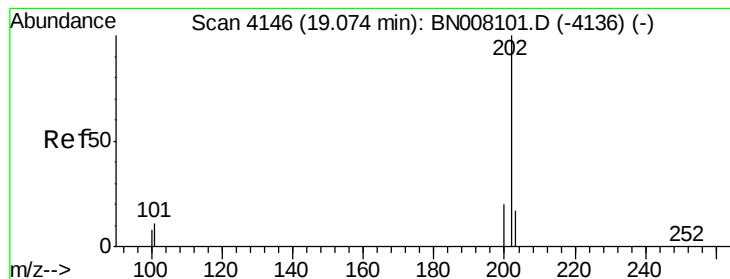
Delta R.T. -0.00 min

Lab File: BN008106.D

Acq: 12 Oct 2019 10:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 6066  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 25.8  | 13.0  | 19.6# |
| 176       | 23.4  | 15.0  | 22.6# |





#15

Fluoranthene

Concen: 0.719 ng/ul m

RT: 19.08 min Scan# 4147

Delta R.T. 0.00 min

Lab File: BN008106.D

Acq: 12 Oct 2019 10:34

Instrument :

BNA\_N

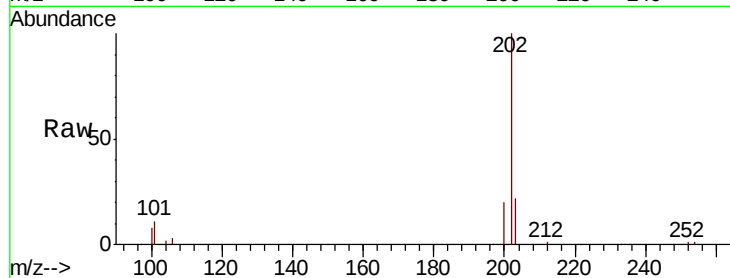
ClientSampleId :

JLM91

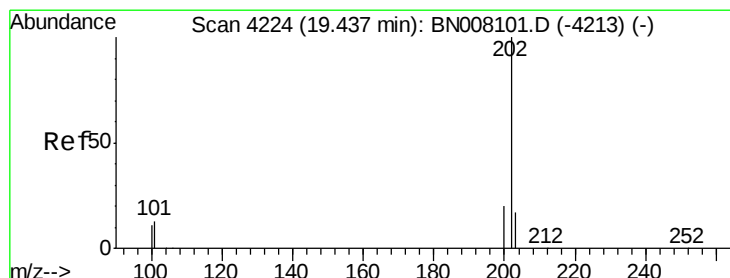
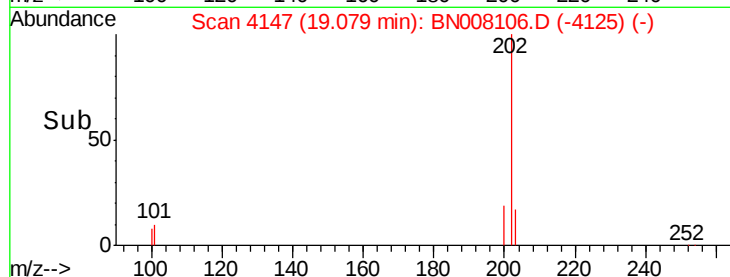
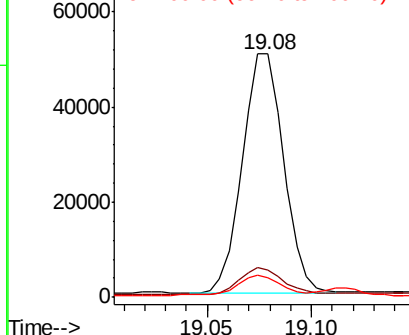
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 69241 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.4  | 0.0   | 31.2  |
| 100       | 8.2   | 0.0   | 28.5  |

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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: 0.709 ng/ul

RT: 19.44 min Scan# 4225

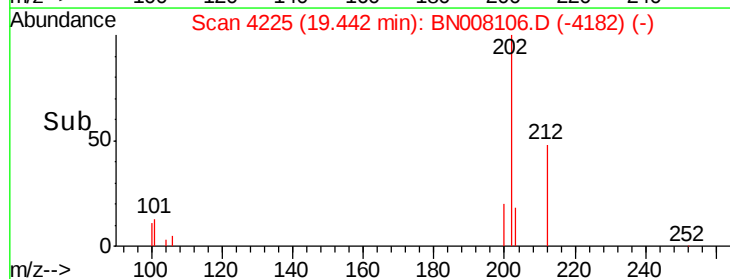
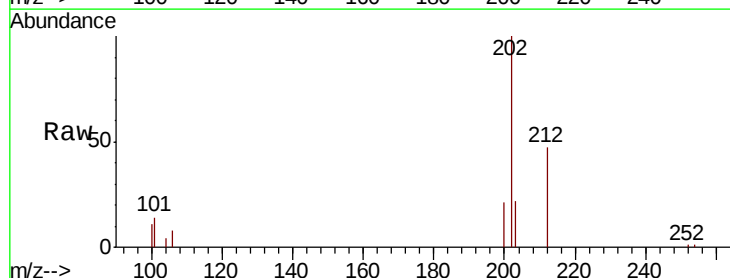
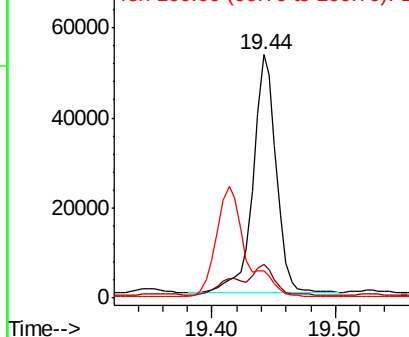
Delta R.T. 0.00 min

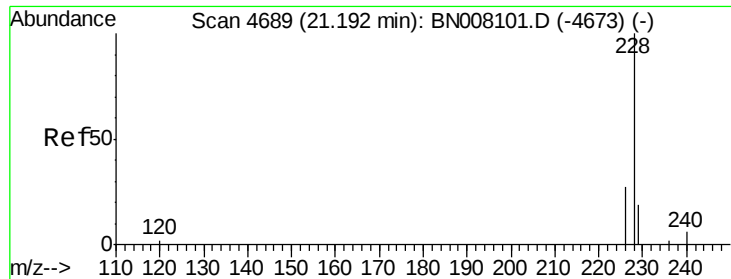
Lab File: BN008106.D

Acq: 12 Oct 2019 10:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 69351 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 13.7  | 10.9  | 16.3  |
| 100       | 11.2  | 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





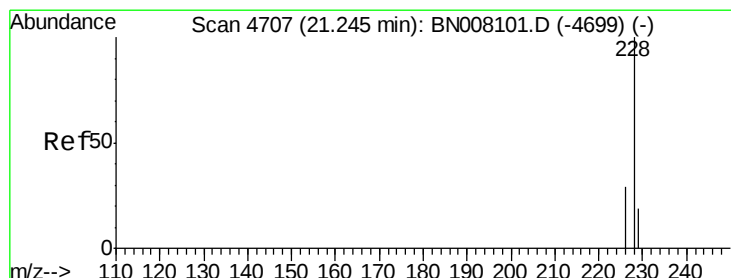
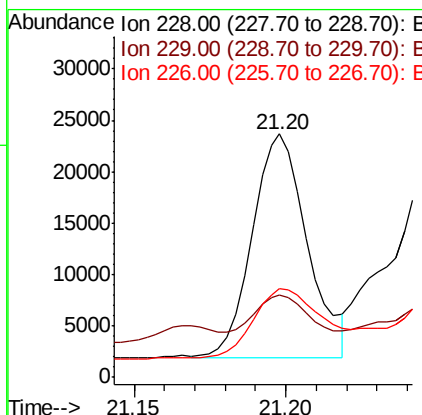
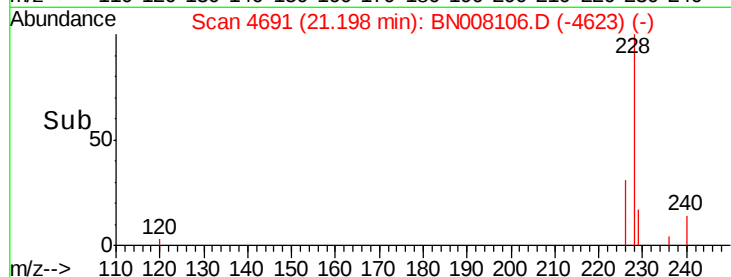
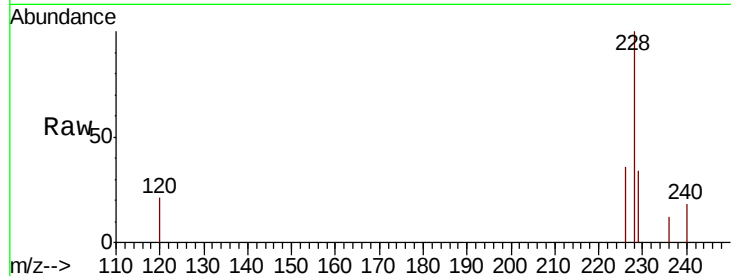
#18  
Benzo(a)anthracene  
Concen: 0.309 ng/ul m  
RT: 21.20 min Scan# 4691  
Delta R.T. -0.00 min  
Lab File: BN008106.D  
Acq: 12 Oct 2019 10:34

Instrument :  
BNA\_N  
ClientSampleId :  
JLM91

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 33.9  | 16.2  | 24.2# |
| 226     | 36.5  | 21.4  | 32.0# |

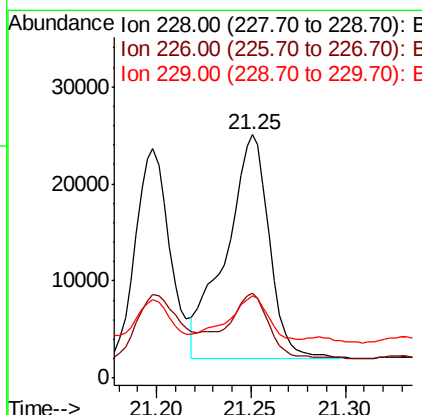
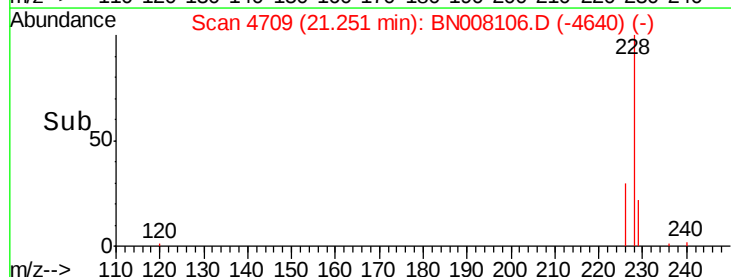
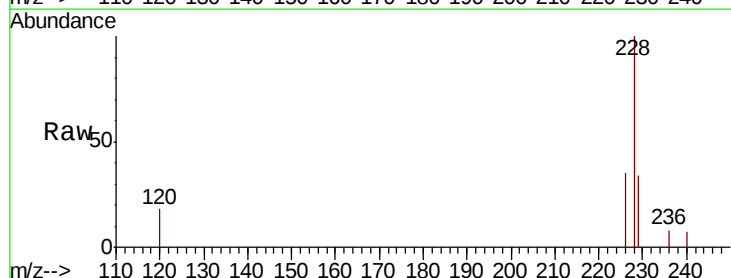
Manual Integrations  
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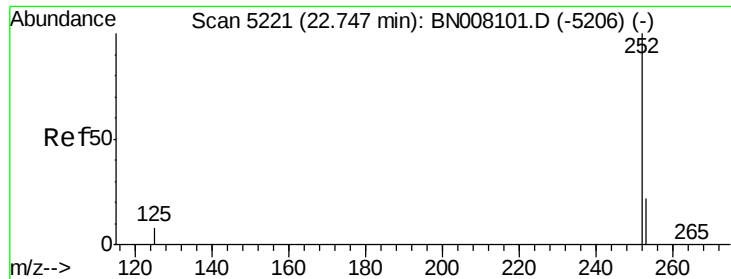
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#19  
Chrysene  
Concen: 0.334 ng/ul m  
RT: 21.25 min Scan# 4709  
Delta R.T. 0.00 min  
Lab File: BN008106.D  
Acq: 12 Oct 2019 10:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 35.1  | 24.1  | 36.1  |
| 229     | 33.6  | 16.2  | 24.2# |





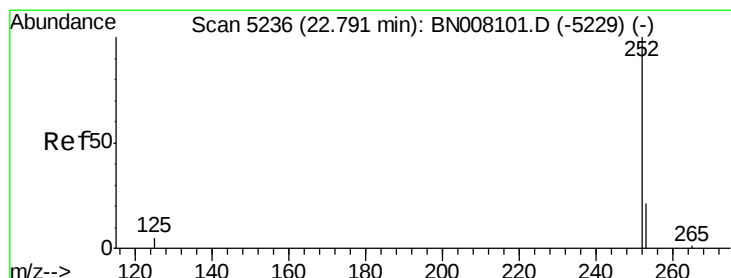
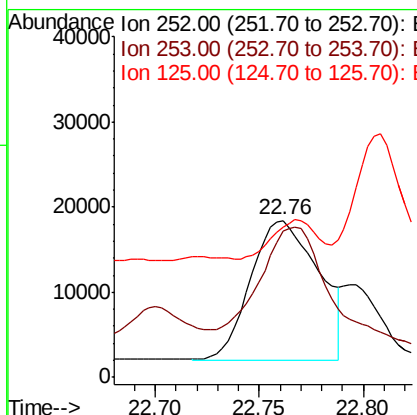
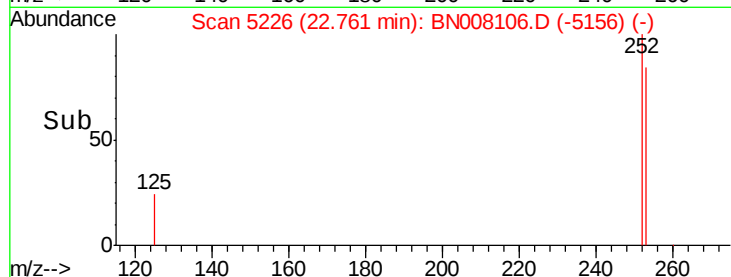
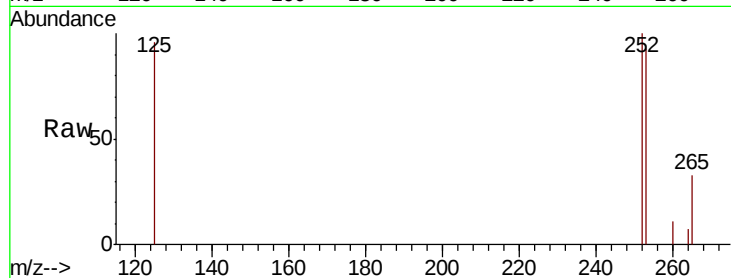
#21  
Benzo(b)fluoranthene  
Concen: 0.616 ng/ul m  
RT: 22.76 min Scan# 5226  
Delta R.T. 0.01 min  
Lab File: BN008106.D  
Acq: 12 Oct 2019 10:34

Instrument :  
BNA\_N  
ClientSampleId :  
JLM91

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 93.0  | 0.0        | 53.4# |
| 125     | 95.6  | 0.0        | 32.4# |

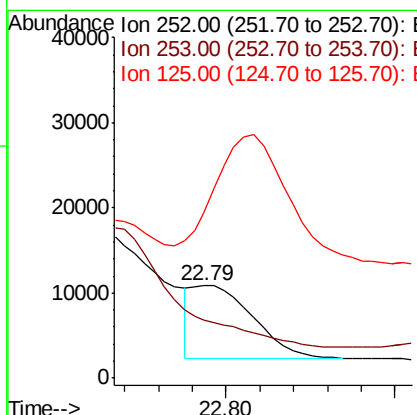
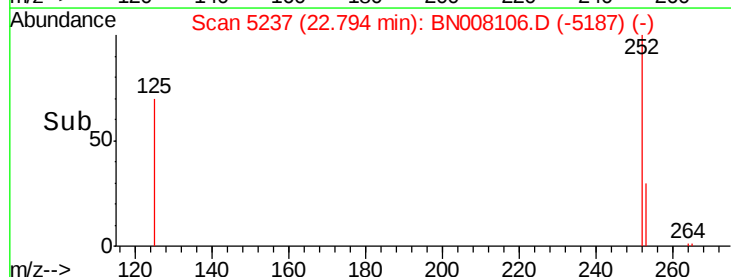
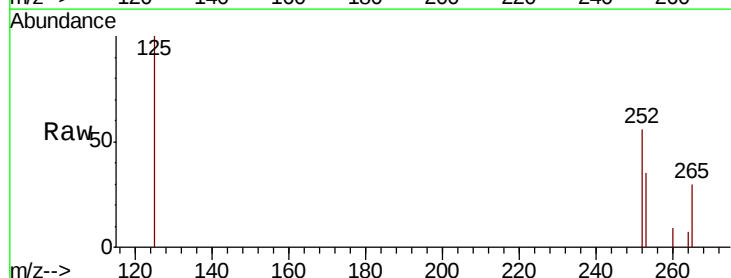
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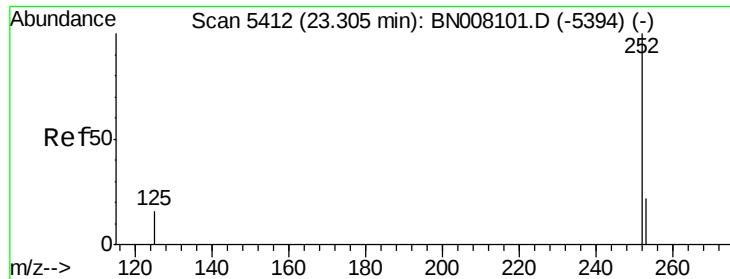
mohammad  
10/15/2019 7:58:24 AM



#22  
Benzo(k)fluoranthene  
Concen: 0.158 ng/ul m  
RT: 22.79 min Scan# 5237  
Delta R.T. -0.00 min  
Lab File: BN008106.D  
Acq: 12 Oct 2019 10:34

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 62.6  | 21.3       | 31.9# |
| 125     | 179.7 | 12.3       | 18.5# |





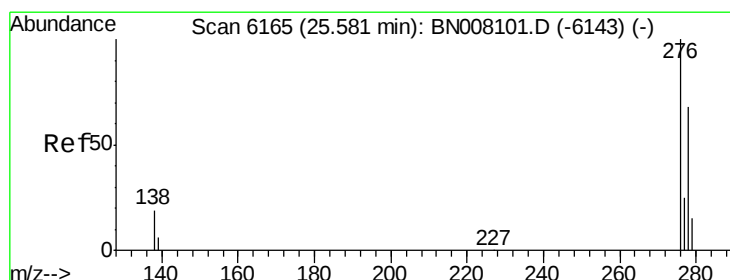
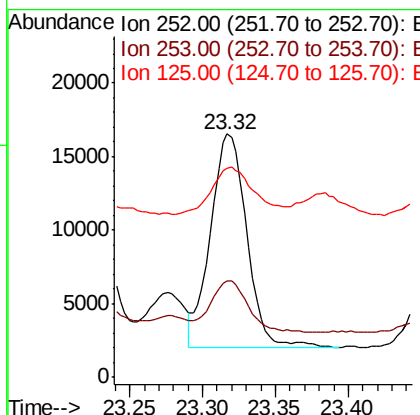
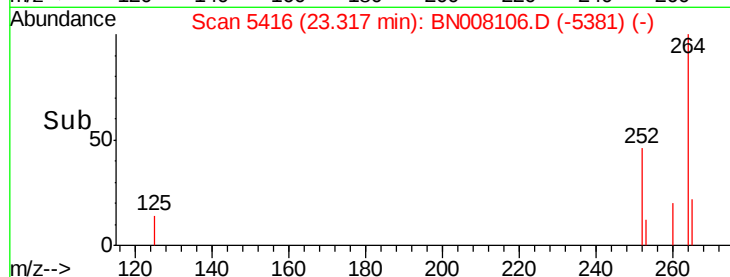
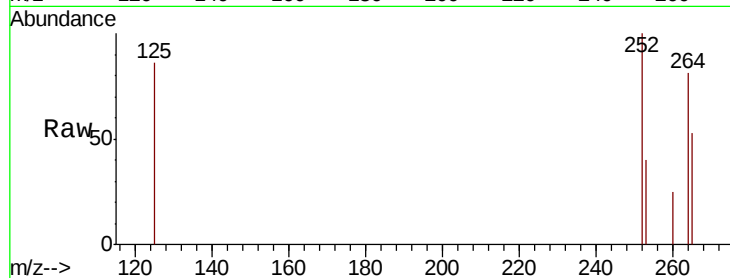
#23  
Benzo(a)pyrene  
Concen: 0.393 ng/ul  
RT: 23.32 min Scan# 5416  
Delta R.T. 0.00 min  
Lab File: BN008106.D  
Acq: 12 Oct 2019 10:34

Instrument :  
BNA\_N  
ClientSampleId :  
JLM91

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 39.7  | 22.8  | 34.2# |
| 125     | 85.7  | 18.4  | 27.6# |

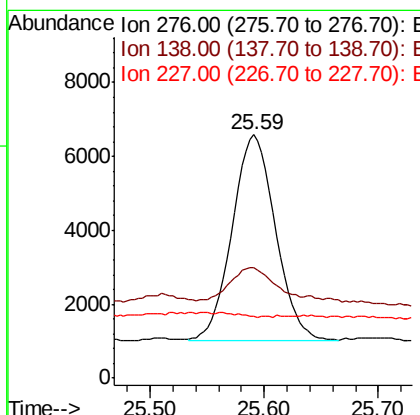
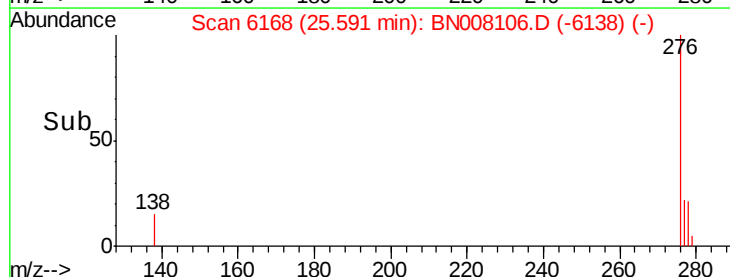
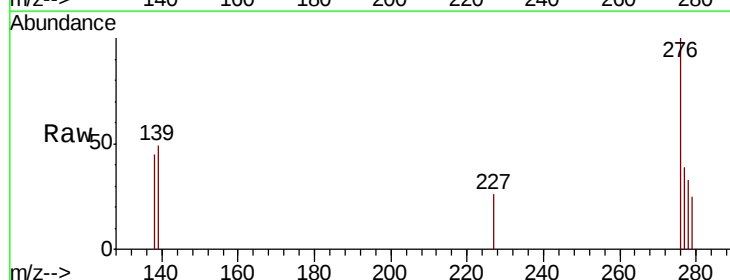
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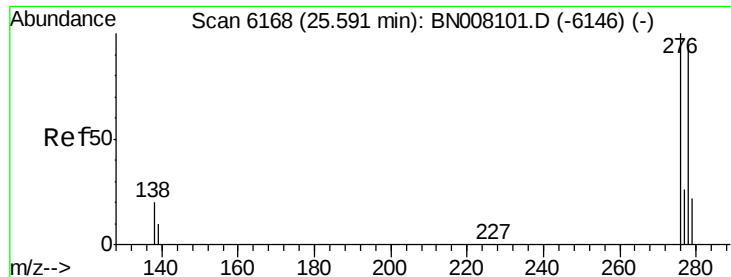
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10/15/2019 7:58:24 AM



#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.193 ng/ul  
RT: 25.59 min Scan# 6168  
Delta R.T. 0.00 min  
Lab File: BN008106.D  
Acq: 12 Oct 2019 10:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.2  | 16.1  | 24.1# |
| 227     | 0.2   | 0.2   | 0.2#  |





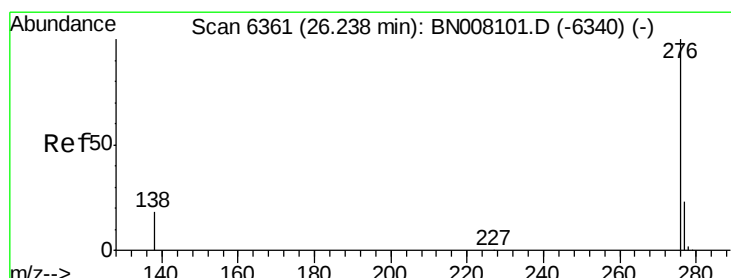
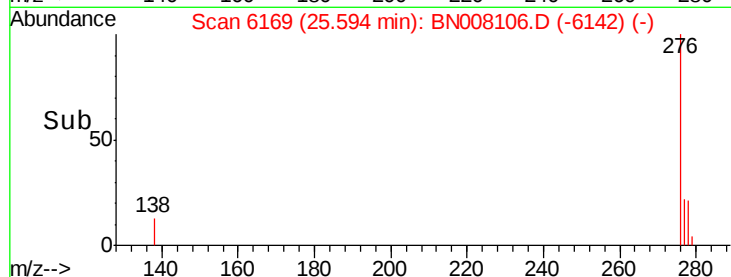
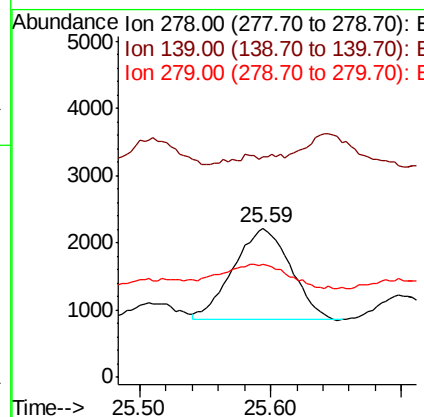
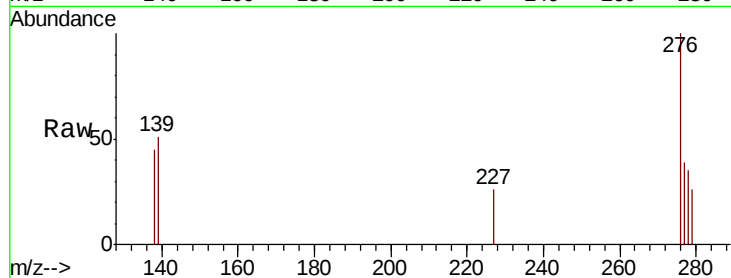
#25  
Dibenzo(a,h)anthracene  
Concen: 0.070 ng/ul  
RT: 25.59 min Scan# 6169  
Delta R.T. -0.01 min  
Lab File: BN008106.D  
Acq: 12 Oct 2019 10:34

Instrument :  
BNA\_N  
ClientSampleId :  
JLM91

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 147.7 | 15.0  | 22.6# |
| 279     | 75.7  | 22.4  | 33.6# |

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#26  
Benzo(g,h,i)perylene  
Concen: 0.261 ng/ul  
RT: 26.26 min Scan# 6367  
Delta R.T. 0.01 min  
Lab File: BN008106.D  
Acq: 12 Oct 2019 10:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 42.4  | 17.0  | 25.4# |
| 277     | 36.5  | 20.4  | 30.6# |

