

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN110719\  
 Data File : BN008502.D  
 Acq On : 08 Nov 2019 11:05  
 Operator : JU  
 Sample : K5699-03MSD  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 F2J00MSD

Manual Integrations  
 APPROVED

mohammad  
 11/11/2019 8:08:46 AM

Quant Time: Nov 08 11:47:06 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN110519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 08 06:44:20 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.55  | 152  | 2109     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.31 | 136  | 9028     | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.19 | 164  | 5465     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.94 | 188  | 11688    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.15 | 240  | 10677    | 0.40   | ng/ul  | -0.01    |
| 20) Perylene-d12            | 23.31 | 264  | 9762     | 0.40   | ng/ul  | -0.02    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.91 | 152  | 3665     | 0.26   | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 18.98 | 212  | 12513    | 0.36   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.36 | 128  | 71433    | 2.780  | ng/ul  | 97       |
| 5) 2-Methylnaphthalene      | 11.98 | 142  | 5630     | 0.329  | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.90 | 152  | 4267     | 0.168  | ng/ul  | 98       |
| 8) Acenaphthene             | 14.25 | 153  | 11347    | 0.550  | ng/ul  | 98       |
| 9) Fluorene                 | 15.24 | 166  | 3670     | 0.163  | ng/ul  | 98       |
| 11) Pentachlorophenol       | 16.60 | 266  | 885      | 0.348  | ng/ul  | 99       |
| 12) Phenanthrene            | 16.98 | 178  | 6286     | 0.177  | ng/ul  | 97       |
| 13) Anthracene              | 17.07 | 178  | 13016    | 0.418  | ng/ul  | 98       |
| 15) Fluoranthene            | 19.00 | 202  | 35776    | 0.878  | ng/ul  | 98       |
| 17) Pyrene                  | 19.37 | 202  | 63969    | 1.227  | ng/ul  | 97       |
| 18) Benzo(a)anthracene      | 21.13 | 228  | 20849    | 0.561  | ng/ul  | 98       |
| 19) Chrysene                | 21.18 | 228  | 16815    | 0.355  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.67 | 252  | 50190m   | 1.380  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.71 | 252  | 14362m   | 0.347  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.22 | 252  | 19196    | 0.524  | ng/ul# | 84       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.45 | 276  | 11400    | 0.274  | ng/ul# | 94       |
| 25) Dibenzo(a,h)anthracene  | 25.45 | 278  | 2867     | 0.087  | ng/ul# | 85       |
| 26) Benzo(g,h,i)perylene    | 26.10 | 276  | 9509     | 0.255  | ng/ul  | 99       |

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

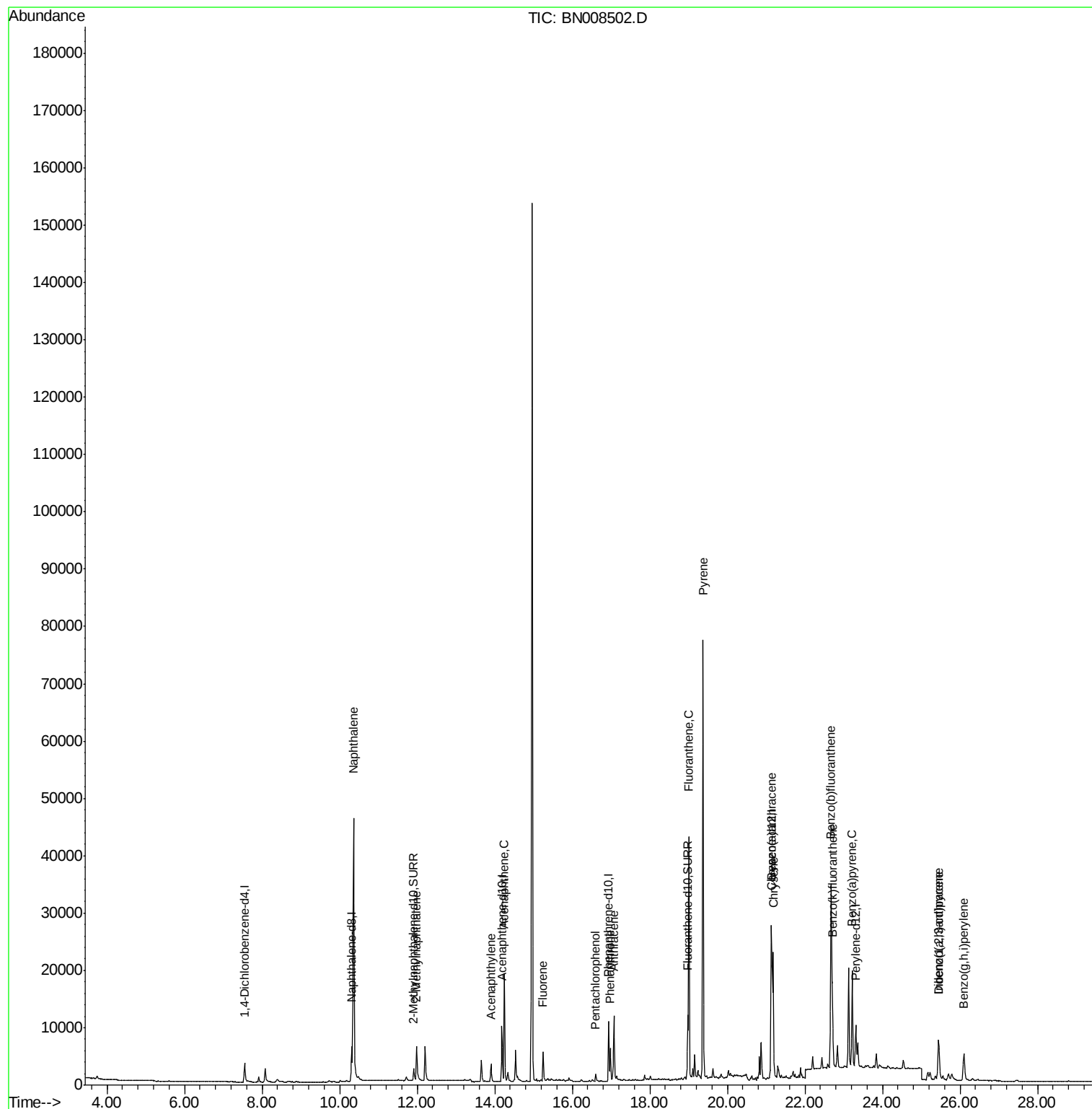
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN110719\  
Data File : BN008502.D  
Acq On : 08 Nov 2019 11:05  
Operator : JU  
Sample : K5699-03MSD  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

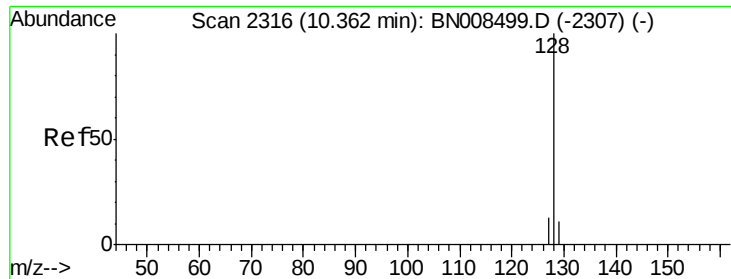
Instrument :  
BNA\_N  
ClientSampleId :  
F2J00MSD

Manual Integrations  
APPROVED

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11/11/2019 8:08:46 AM

Quant Time: Nov 08 11:47:06 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN110519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 08 06:44:20 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 2.780 ng/ul

RT: 10.36 min Scan# 2315

Delta R.T. -0.01 min

Lab File: BN008502.D

Acq: 08 Nov 2019 11:05

Instrument :

BNA\_N

ClientSampleId :

F2J00MSD

Tot Ion:128 Resp: 71433

Ion Ratio Lower Upper

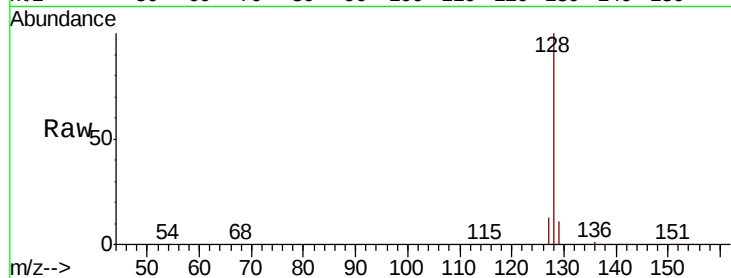
128 100

129 11.1 10.0 15.0

127 13.2 11.6 17.4

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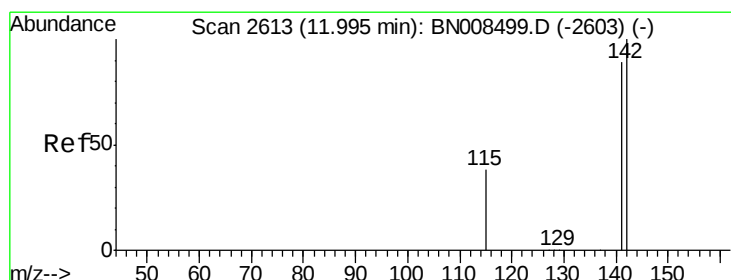
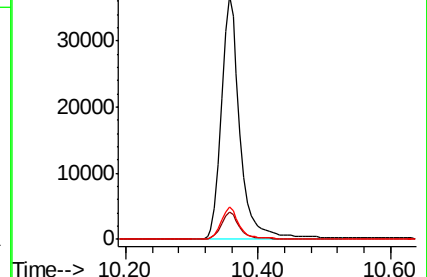
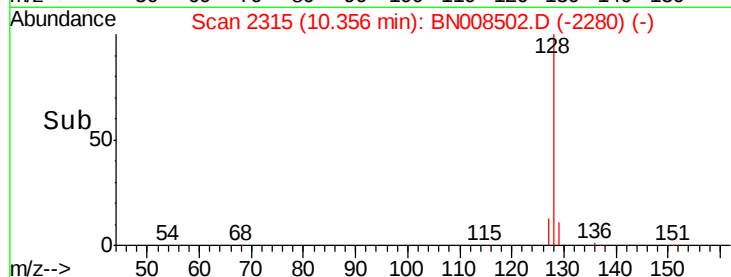
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.329 ng/ul

RT: 11.98 min Scan# 2611

Delta R.T. -0.01 min

Lab File: BN008502.D

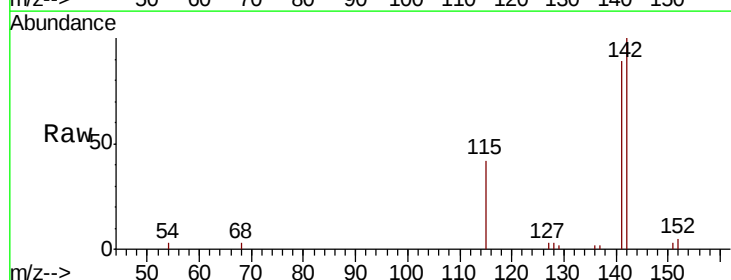
Acq: 08 Nov 2019 11:05

Tgt Ion:142 Resp: 5630

Ion Ratio Lower Upper

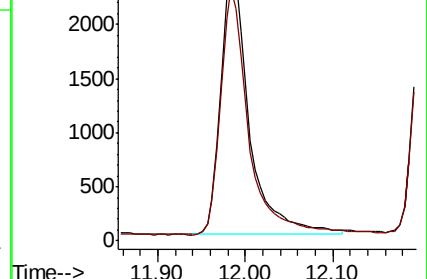
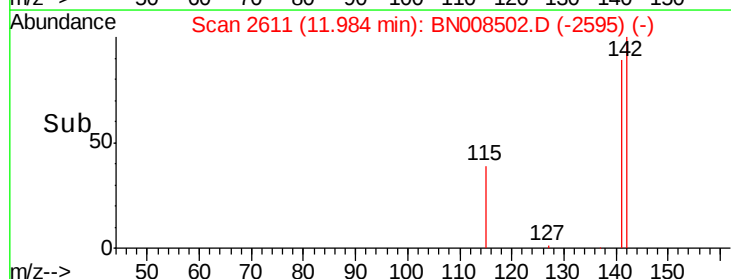
142 100

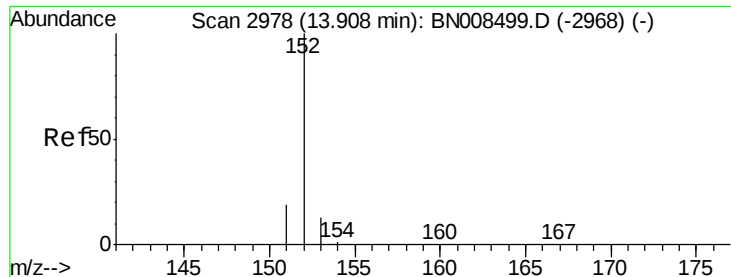
141 90.1 72.8 109.2



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.168 ng/ul

RT: 13.90 min Scan# 2977

Delta R.T. -0.00 min

Lab File: BN008502.D

Acq: 08 Nov 2019 11:05

Instrument :

BNA\_N

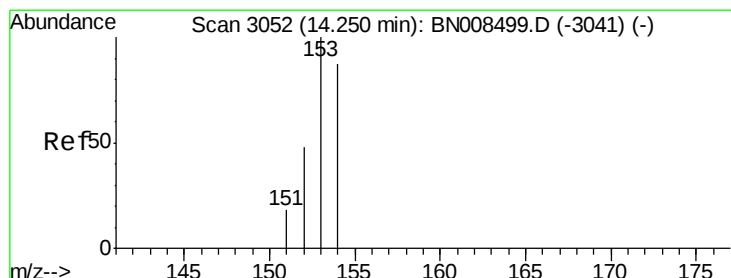
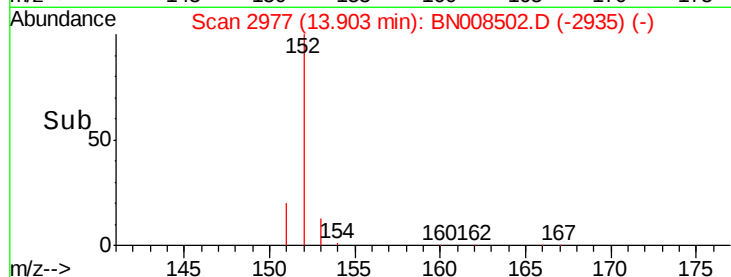
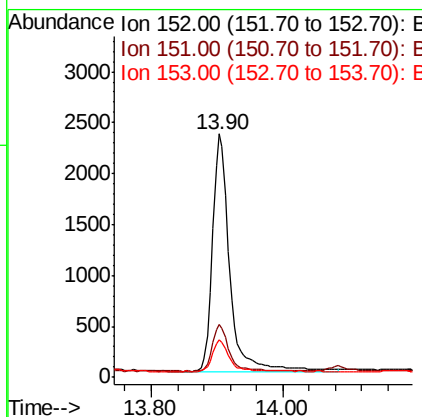
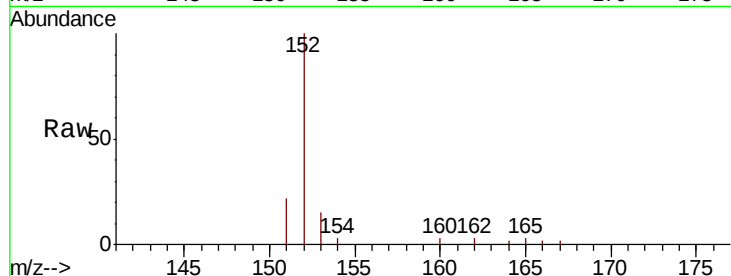
ClientSampleId :

F2J00MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 4267  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 21.7  | 16.7  | 25.1  |
| 153      | 15.4  | 11.4  | 17.2  |

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#8

Acenaphthene

Concen: 0.550 ng/ul

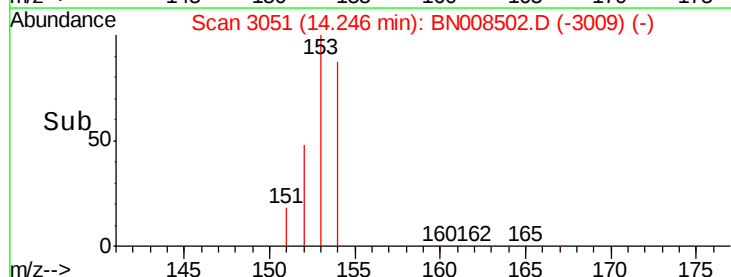
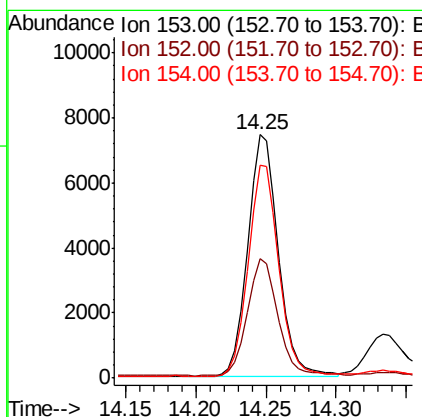
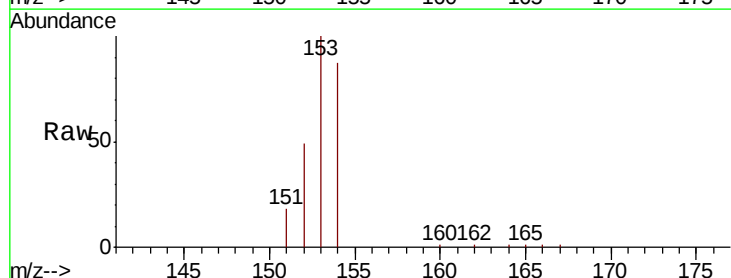
RT: 14.25 min Scan# 3051

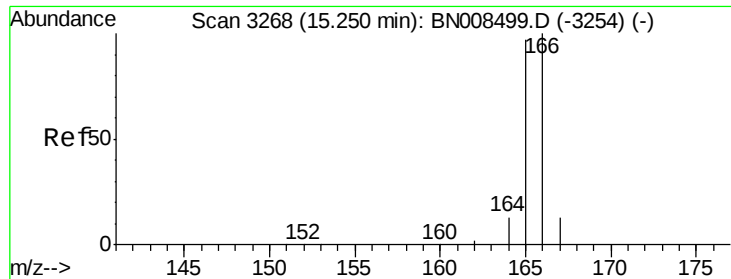
Delta R.T. -0.00 min

Lab File: BN008502.D

Acq: 08 Nov 2019 11:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 153   | Resp: | 11347 |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 48.9  | 39.8  | 59.8  |
| 154      | 87.4  | 71.6  | 107.4 |





#9

Fluorene

Concen: 0.163 ng/ul

RT: 15.24 min Scan# 3267

Delta R.T. -0.01 min

Lab File: BN008502.D

Acq: 08 Nov 2019 11:05

Instrument :

BNA\_N

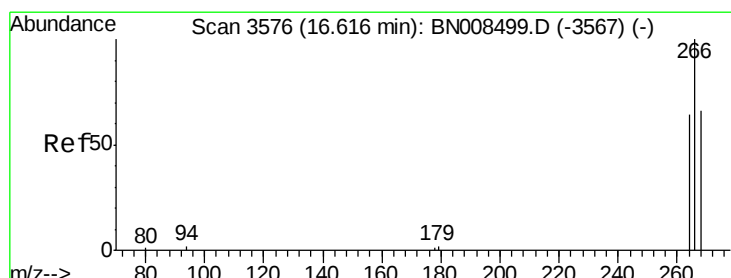
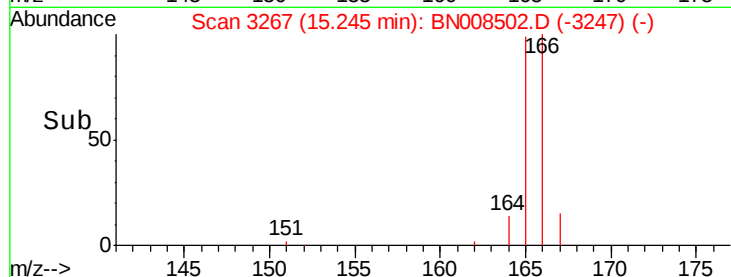
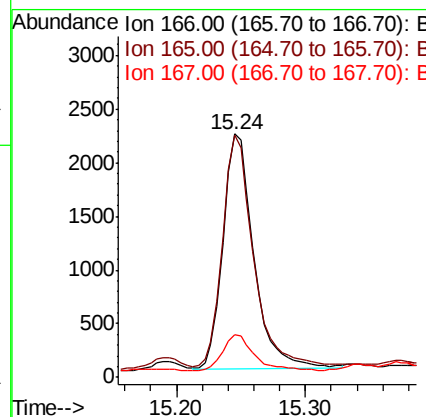
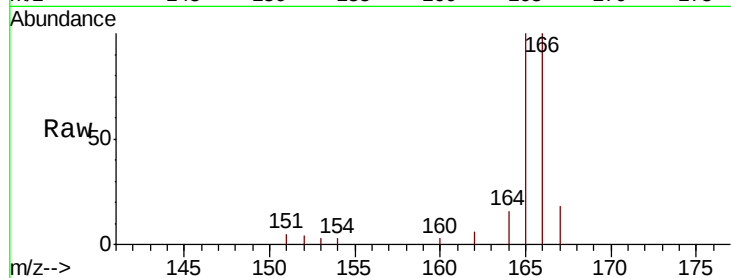
ClientSampleId :

F2J00MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 3670  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.6  | 78.2  | 117.2 |
| 167       | 17.6  | 12.1  | 18.1  |

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#11

Pentachlorophenol

Concen: 0.348 ng/ul

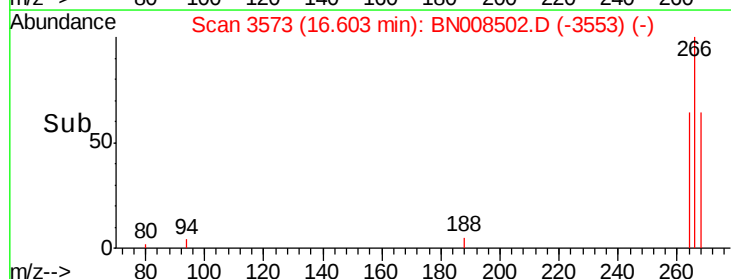
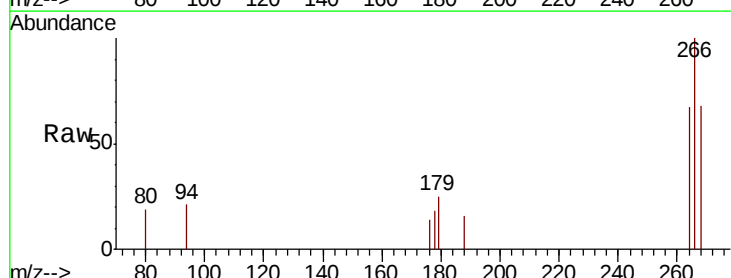
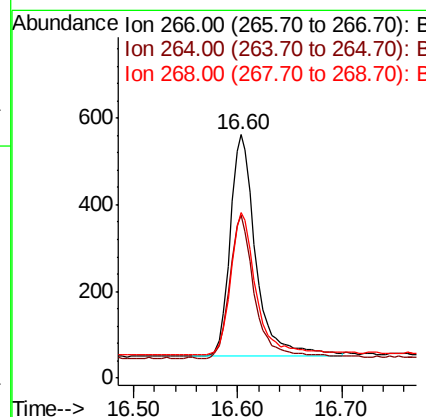
RT: 16.60 min Scan# 3573

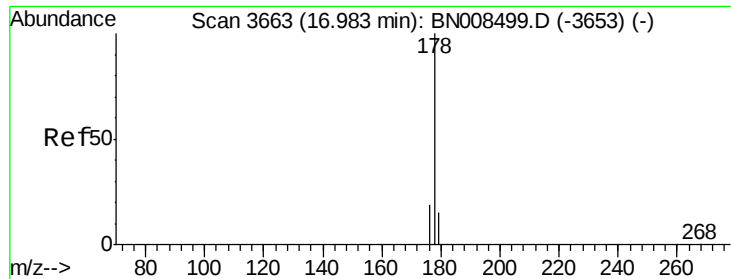
Delta R.T. -0.02 min

Lab File: BN008502.D

Acq: 08 Nov 2019 11:05

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 885  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 63.5  | 49.8  | 74.8 |
| 268       | 64.5  | 51.0  | 76.6 |





#12

Phenanthrene

Concen: 0.177 ng/ul

RT: 16.98 min Scan# 3662

Delta R.T. -0.01 min

Lab File: BN008502.D

Acq: 08 Nov 2019 11:05

Instrument :

BNA\_N

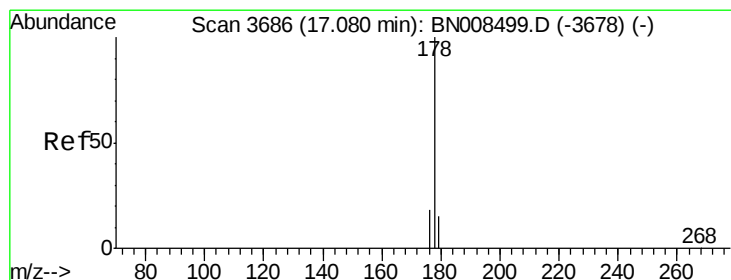
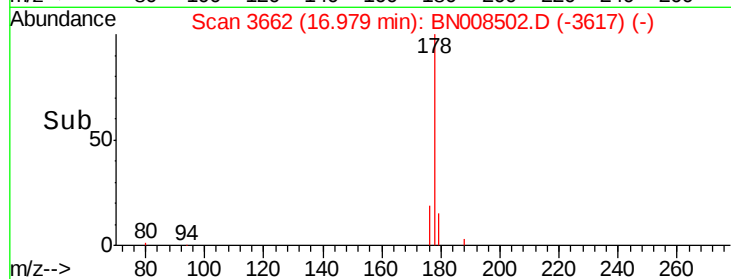
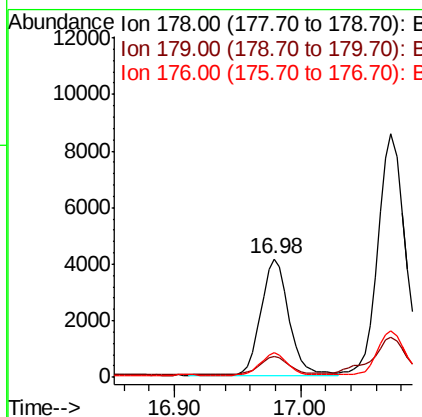
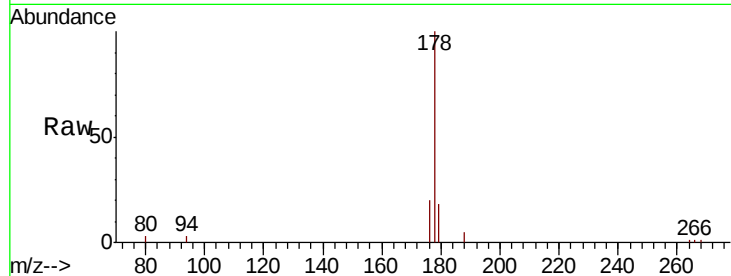
ClientSampleId :

F2J00MSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 178   | Resp: | 6286 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 18.0  | 13.2  | 19.8 |
| 176       | 20.4  | 15.6  | 23.4 |

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#13

Anthracene

Concen: 0.418 ng/ul

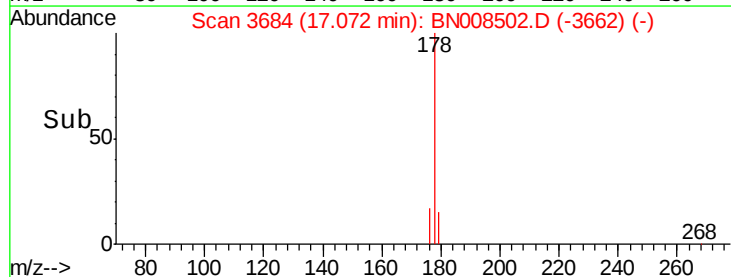
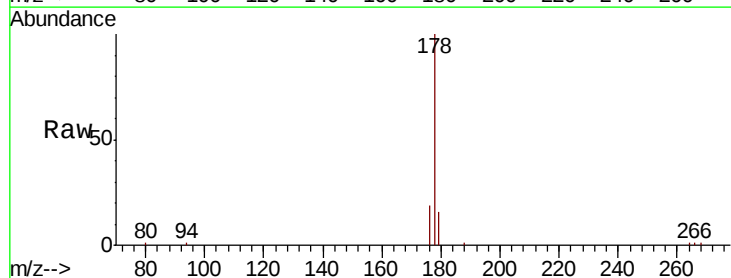
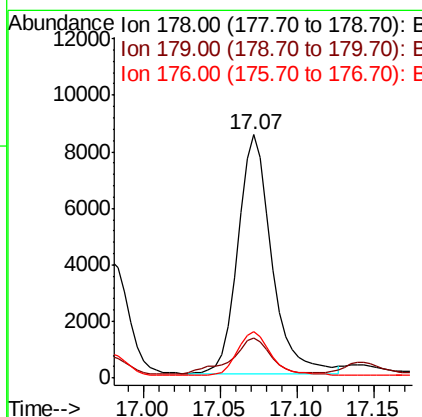
RT: 17.07 min Scan# 3684

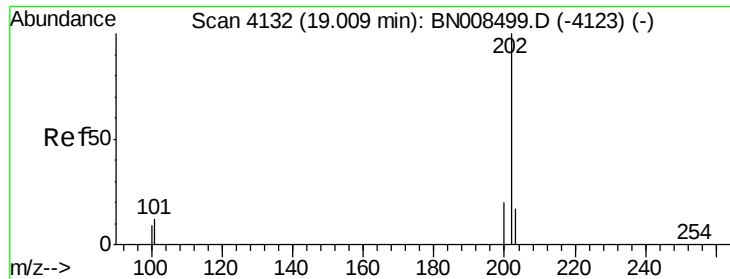
Delta R.T. -0.01 min

Lab File: BN008502.D

Acq: 08 Nov 2019 11:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 13016 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.4  | 13.7  | 20.5  |
| 176       | 18.8  | 15.7  | 23.5  |





#15

Fluoranthene

Concen: 0.878 ng/ul

RT: 19.00 min Scan# 4131

Delta R.T. -0.01 min

Lab File: BN008502.D

Acq: 08 Nov 2019 11:05

Instrument :

BNA\_N

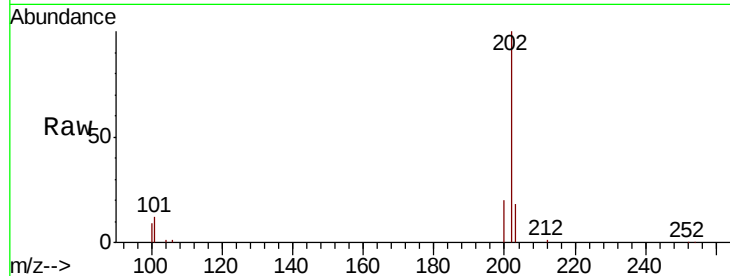
ClientSampleId :

F2J00MSD

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 35776 |       |       |
| 101     | 12.4  | 0.0   | 33.0  |       |
| 100     | 9.5   | 0.0   | 30.2  |       |

Manual Integrations  
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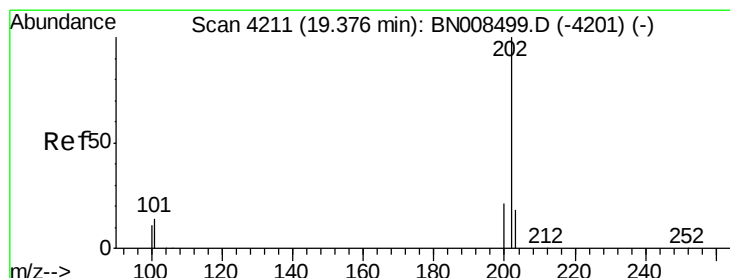
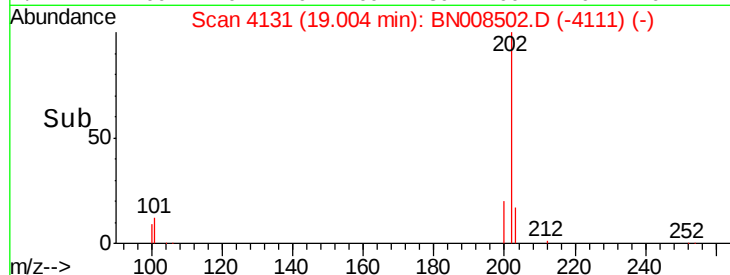
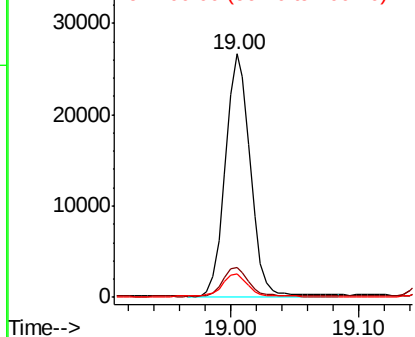
mohammad  
11/11/2019 8:08:46 AM



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: 1.227 ng/ul

RT: 19.37 min Scan# 4210

Delta R.T. -0.01 min

Lab File: BN008502.D

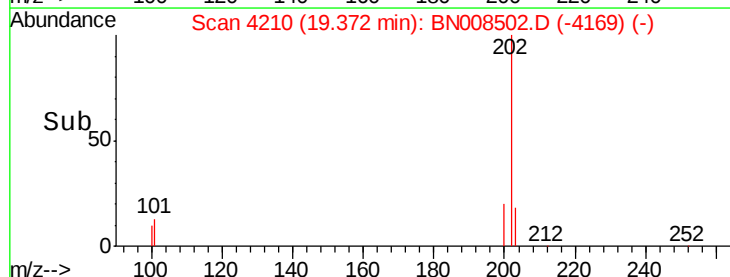
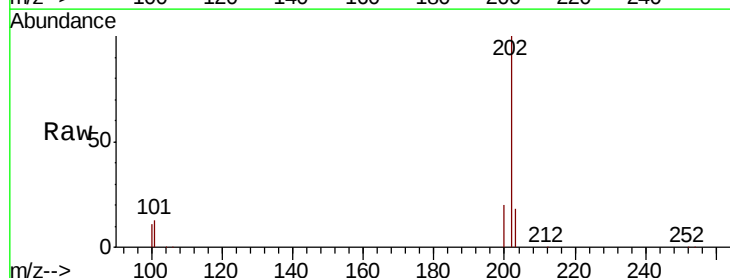
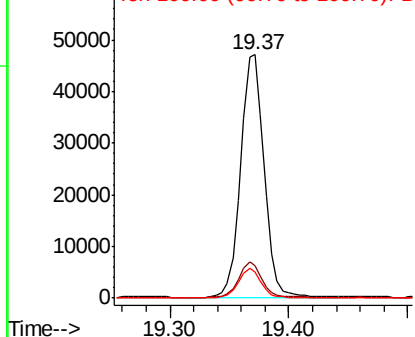
Acq: 08 Nov 2019 11:05

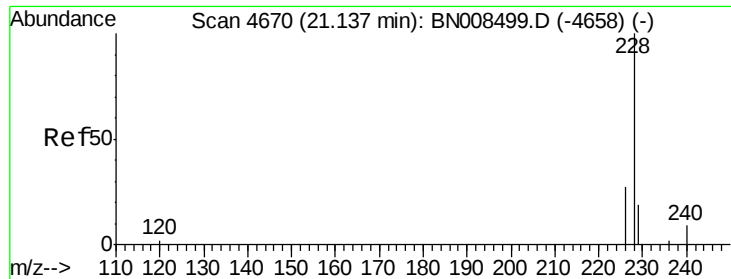
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 63969 |       |       |
| 101     | 13.3  | 11.6  | 17.4  |       |
| 100     | 10.7  | 9.4   | 14.0  |       |

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





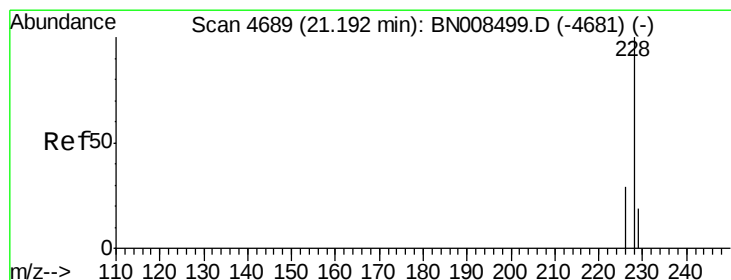
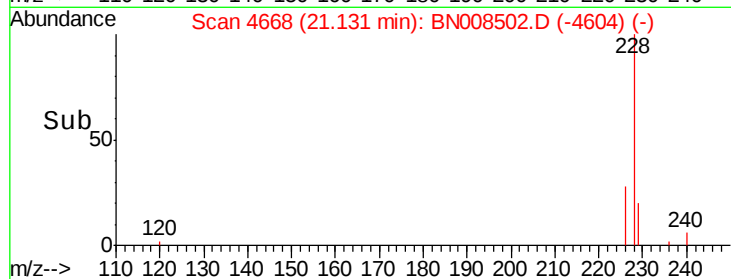
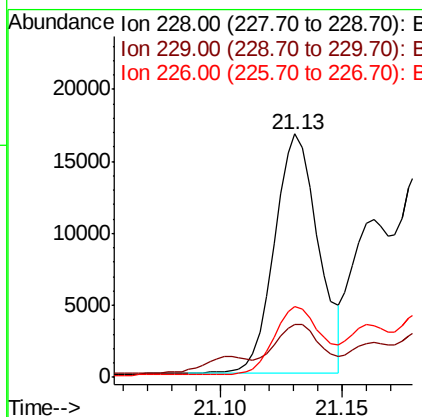
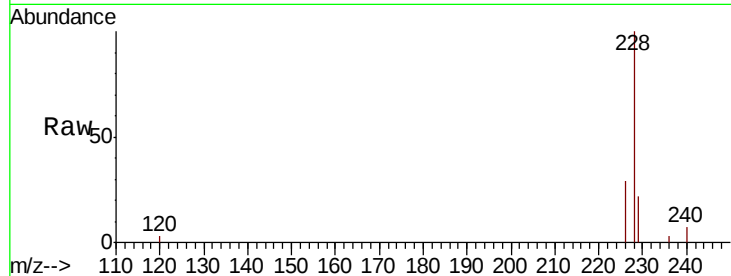
#18  
Benzo(a)anthracene  
Concen: 0.561 ng/ul  
RT: 21.13 min Scan# 4668  
Delta R.T. -0.01 min  
Lab File: BN008502.D  
Acq: 08 Nov 2019 11:05

Instrument :  
BNA\_N  
ClientSampleId :  
F2J00MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.0  | 16.6  | 24.8  |
| 226     | 29.3  | 22.8  | 34.2  |

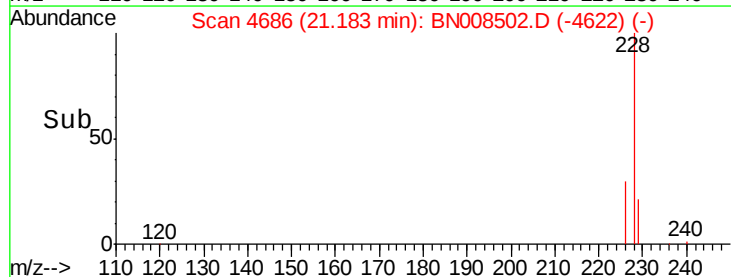
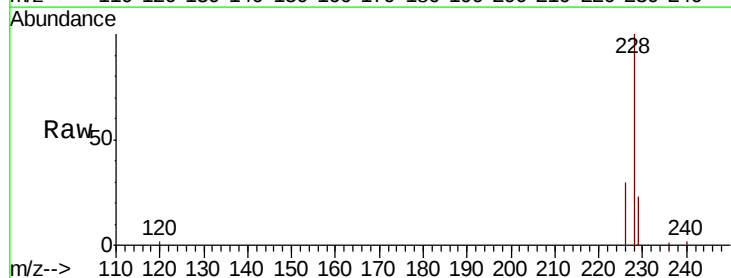
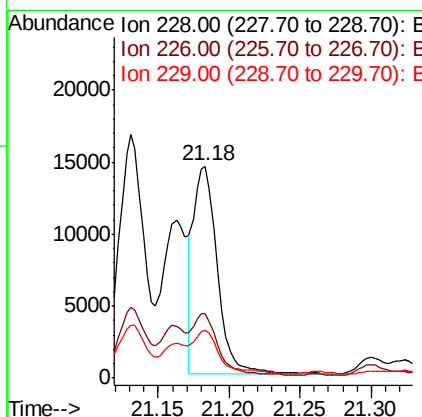
Manual Integrations  
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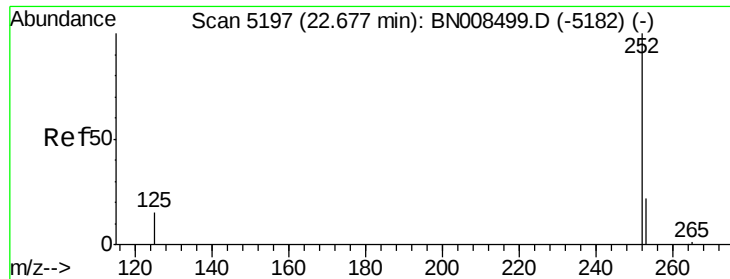
mohammad  
11/11/2019 8:08:46 AM



#19  
Chrysene  
Concen: 0.355 ng/ul  
RT: 21.18 min Scan# 4686  
Delta R.T. -0.01 min  
Lab File: BN008502.D  
Acq: 08 Nov 2019 11:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.4  | 24.9  | 37.3  |
| 229     | 22.6  | 16.6  | 25.0  |





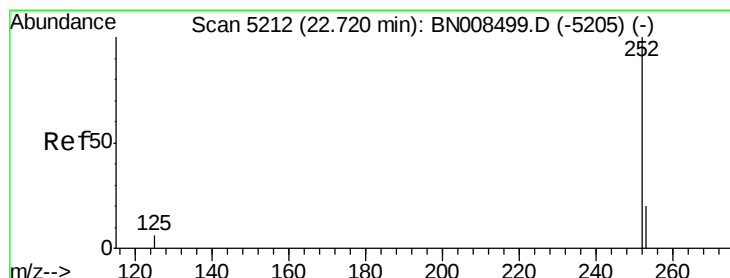
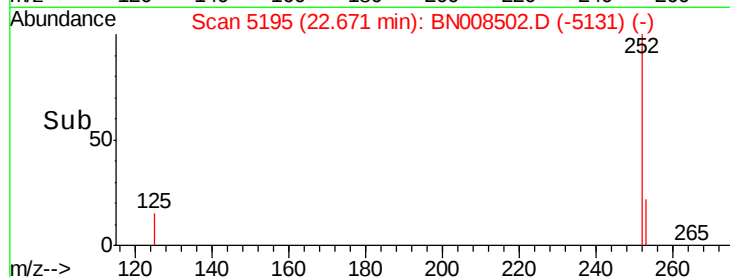
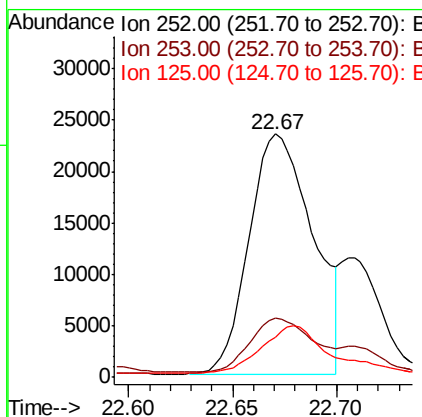
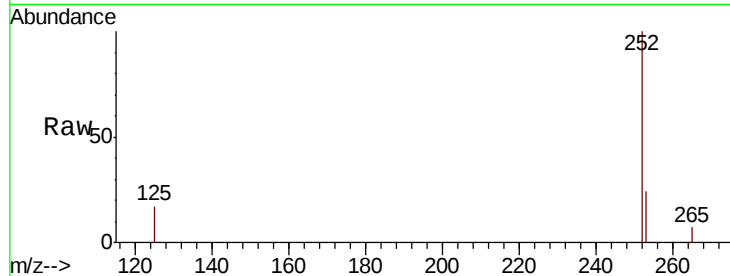
#21  
Benzo(b)fluoranthene  
Concen: 1.380 ng/ul m  
RT: 22.67 min Scan# 5195  
Delta R.T. -0.01 min  
Lab File: BN008502.D  
Acq: 08 Nov 2019 11:05

Instrument :  
BNA\_N  
ClientSampleId :  
F2J00MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.2  | 0.0   | 58.4  |
| 125     | 16.6  | 0.0   | 58.6  |

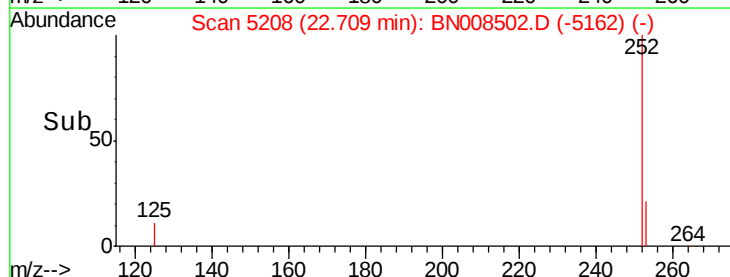
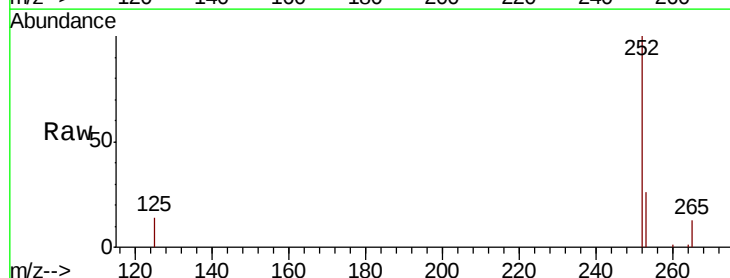
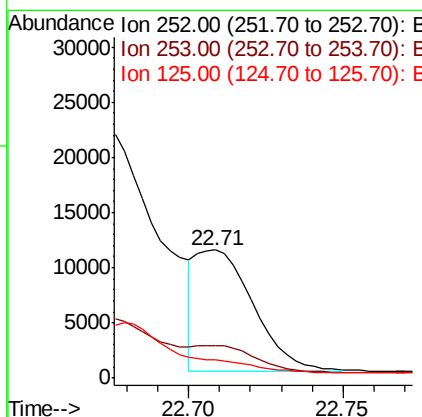
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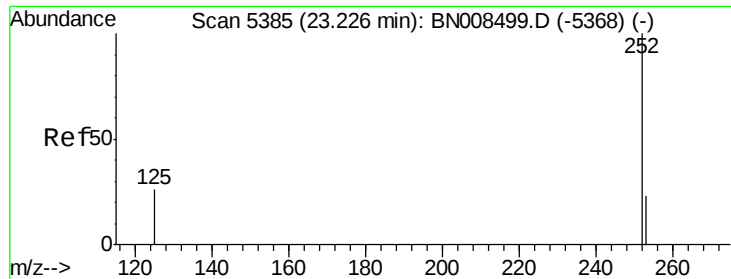
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#22  
Benzo(k)fluoranthene  
Concen: 0.347 ng/ul m  
RT: 22.71 min Scan# 5208  
Delta R.T. -0.01 min  
Lab File: BN008502.D  
Acq: 08 Nov 2019 11:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 22.6  | 34.0  |
| 125     | 14.3  | 14.7  | 22.1  |





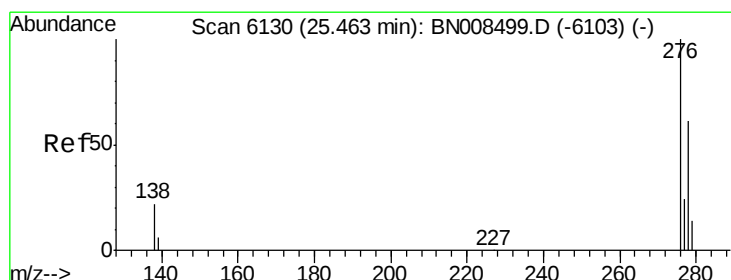
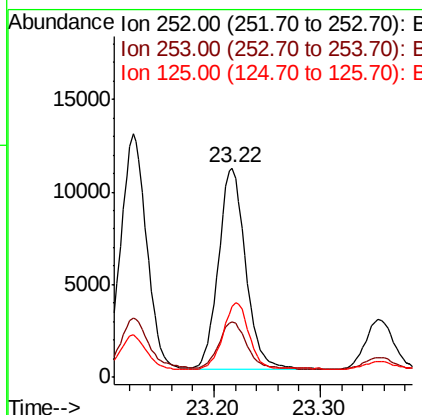
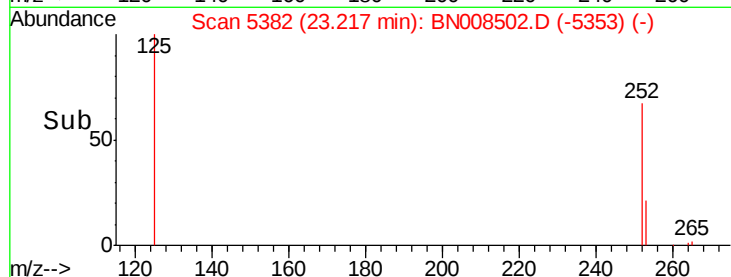
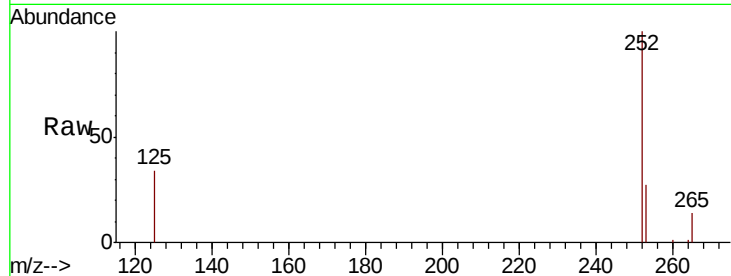
#23  
Benzo(a)pyrene  
Concen: 0.524 ng/ul  
RT: 23.22 min Scan# 5382  
Delta R.T. -0.01 min  
Lab File: BN008502.D  
Acq: 08 Nov 2019 11:05

Instrument :  
BNA\_N  
ClientSampleId :  
F2J00MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.7  | 27.2  | 40.8# |
| 125     | 33.7  | 37.0  | 55.6# |

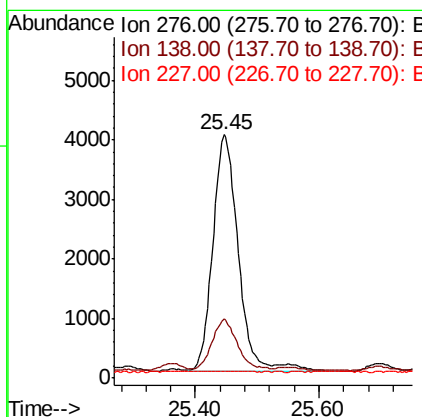
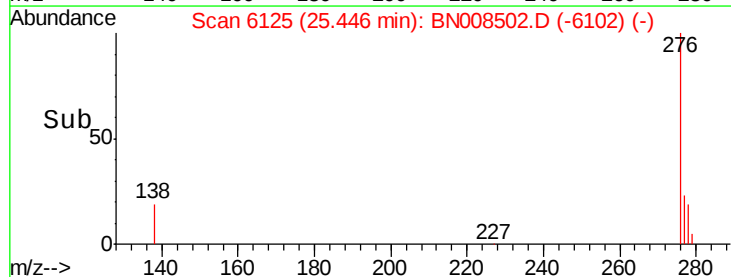
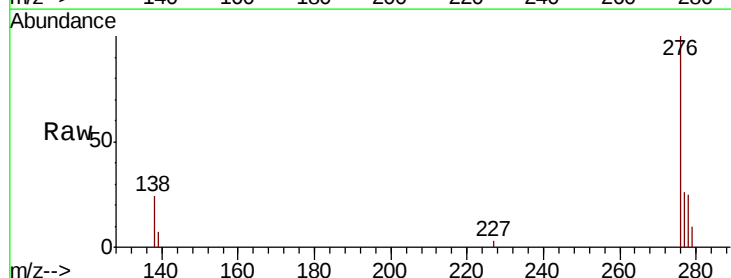
Manual Integrations  
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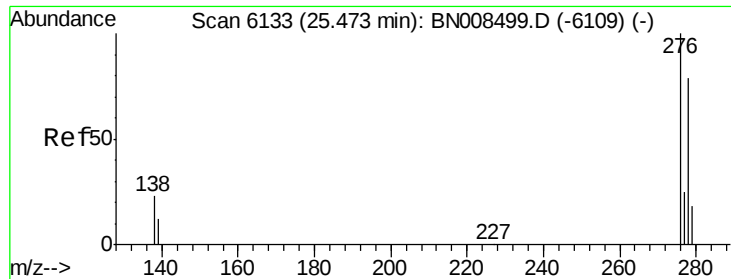
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#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.274 ng/ul  
RT: 25.45 min Scan# 6125  
Delta R.T. -0.02 min  
Lab File: BN008502.D  
Acq: 08 Nov 2019 11:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.2  | 18.3  | 27.5  |
| 227     | 0.1   | 0.0   | 0.0#  |





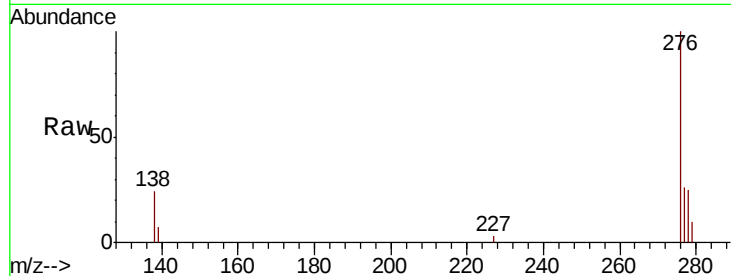
#25  
Dibenzo(a,h)anthracene  
Concen: 0.087 ng/ul  
RT: 25.45 min Scan# 6126  
Delta R.T. -0.03 min  
Lab File: BN008502.D  
Acq: 08 Nov 2019 11:05

Instrument :  
BNA\_N  
ClientSampleId :  
F2J00MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 28.8  | 17.6  | 26.4# |
| 279     | 40.4  | 25.1  | 37.7# |

Manual Integrations  
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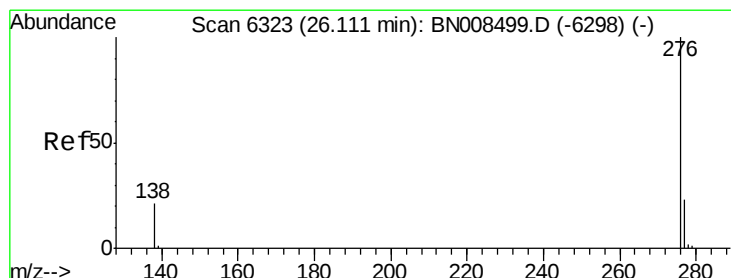
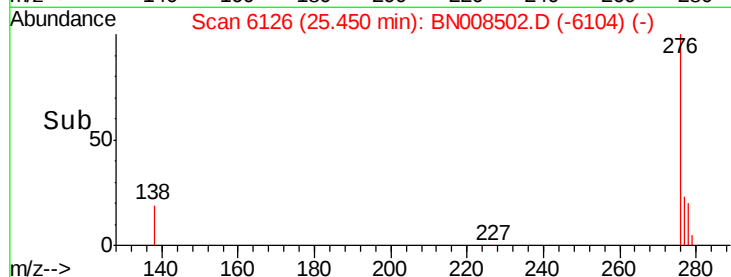
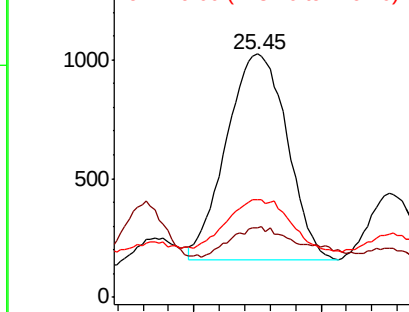


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#26  
Benzo(g,h,i)perylene  
Concen: 0.255 ng/ul  
RT: 26.10 min Scan# 6320  
Delta R.T. -0.02 min  
Lab File: BN008502.D  
Acq: 08 Nov 2019 11:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 24.4  | 20.1  | 30.1  |
| 277     | 25.4  | 20.6  | 31.0  |

Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

