

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102419\  
 Data File : BN008424.D  
 Acq On : 25 Oct 2019 13:28  
 Operator : JU  
 Sample : K5236-15DL 5X  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPM7DL

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Quant Time: Oct 25 14:06:05 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 25 13:14:06 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.57  | 152  | 1756     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.33 | 136  | 8888     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.21 | 164  | 5896     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.96 | 188  | 12670    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.17 | 240  | 10953    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.33 | 264  | 9947     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.95 | 152  | 583      | 0.04   | ng/ul  | 0.01     |
| 14) Fluoranthene-d10        | 19.00 | 212  | 2011     | 0.05   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 7) Acenaphthylene           | 13.92 | 152  | 1734     | 0.062  | ng/ul# | 89       |
| 8) Acenaphthene             | 14.27 | 153  | 855      | 0.039  | ng/ul  | 96       |
| 9) Fluorene                 | 15.26 | 166  | 1061     | 0.043  | ng/ul# | 95       |
| 12) Phenanthrene            | 17.00 | 178  | 27056    | 0.729  | ng/ul  | 99       |
| 13) Anthracene              | 17.09 | 178  | 4224     | 0.129  | ng/ul# | 95       |
| 15) Fluoranthene            | 19.02 | 202  | 86436    | 1.764  | ng/ul  | 98       |
| 17) Pyrene                  | 19.39 | 202  | 77272    | 1.772  | ng/ul  | 100      |
| 18) Benzo(a)anthracene      | 21.15 | 228  | 33341    | 0.837  | ng/ul  | 97       |
| 19) Chrysene                | 21.20 | 228  | 42668    | 0.873  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.69 | 252  | 51189m   | 1.581  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.73 | 252  | 21627m   | 0.590  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.24 | 252  | 30391    | 0.892  | ng/ul  | 93       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.48 | 276  | 22402    | 0.558  | ng/ul  | 97       |
| 25) Dibenzo(a,h)anthracene  | 25.49 | 278  | 4605     | 0.145  | ng/ul# | 77       |
| 26) Benzo(g,h,i)perylene    | 26.14 | 276  | 21915    | 0.596  | ng/ul  | 98       |

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

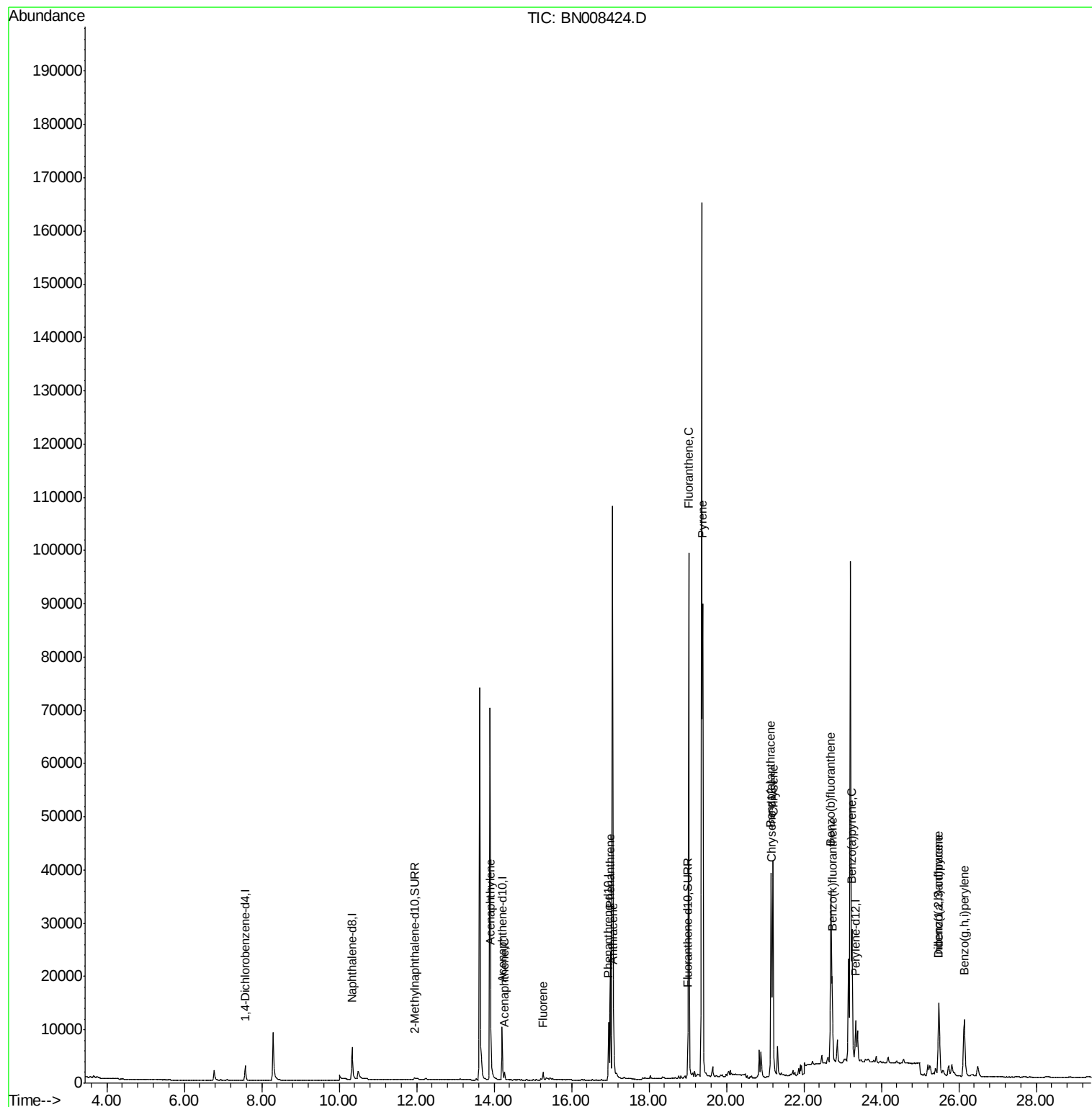
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102419\  
Data File : BN008424.D  
Acq On : 25 Oct 2019 13:28  
Operator : JU  
Sample : K5236-15DL 5X  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

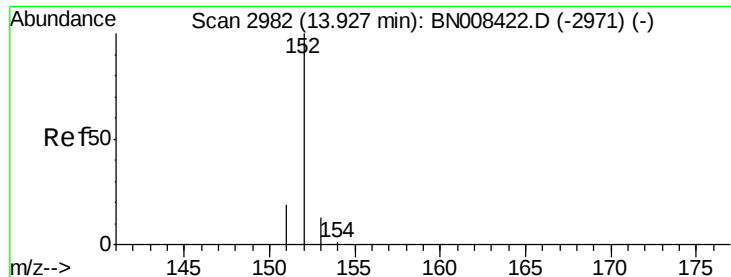
Instrument :  
BNA\_N  
ClientSampleId :  
BEPM7DL

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Quant Time: Oct 25 14:06:05 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 25 13:14:06 2019  
Response via : Initial Calibration





#7

Acenaphthylene

Concen: 0.062 ng/ul

RT: 13.92 min Scan# 2981

Delta R.T. -0.00 min

Lab File: BN008424.D

Acq: 25 Oct 2019 13:28

Instrument :

BNA\_N

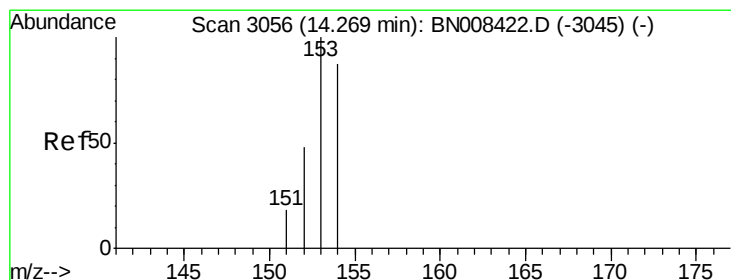
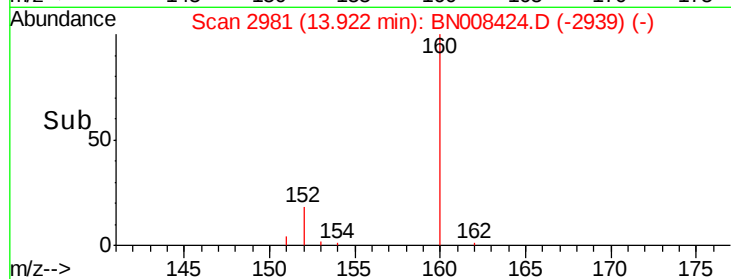
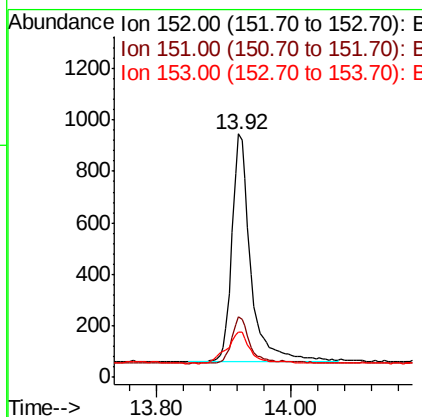
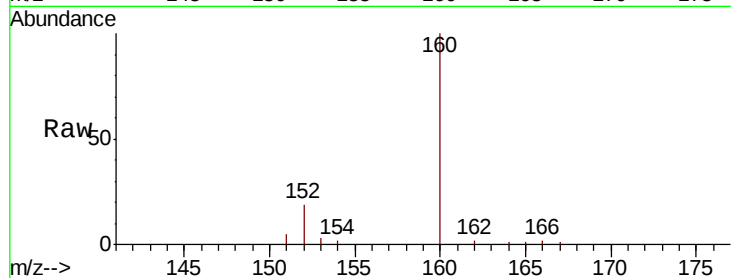
ClientSampleId :

BEPMDL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 1734  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 24.9  | 16.2  | 24.4# |
| 153       | 18.4  | 11.0  | 16.4# |

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#8

Acenaphthene

Concen: 0.039 ng/ul

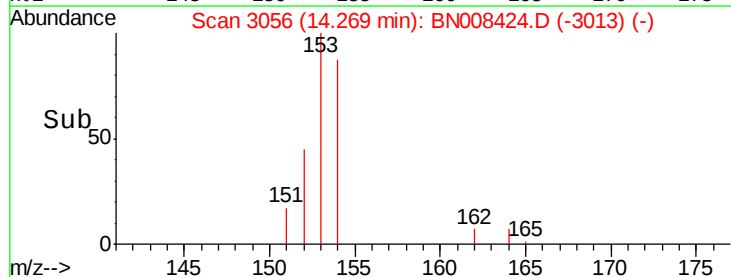
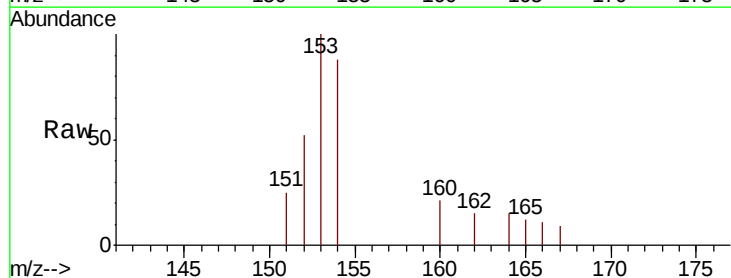
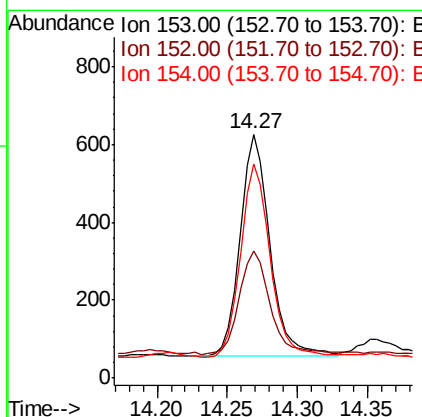
RT: 14.27 min Scan# 3056

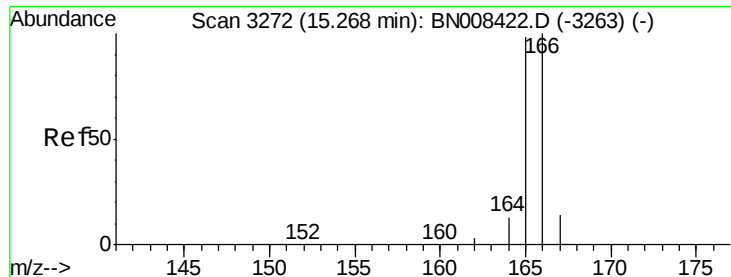
Delta R.T. -0.00 min

Lab File: BN008424.D

Acq: 25 Oct 2019 13:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 855   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 52.1  | 38.2  | 57.2  |
| 154       | 87.7  | 71.8  | 107.8 |





#9

Fluorene

Concen: 0.043 ng/ul

RT: 15.26 min Scan# 3271

Delta R.T. -0.00 min

Lab File: BN008424.D

Acq: 25 Oct 2019 13:28

Instrument :

BNA\_N

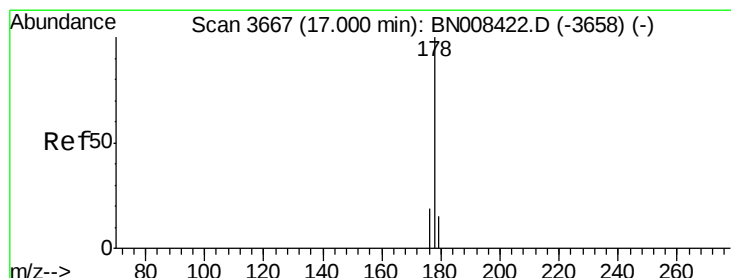
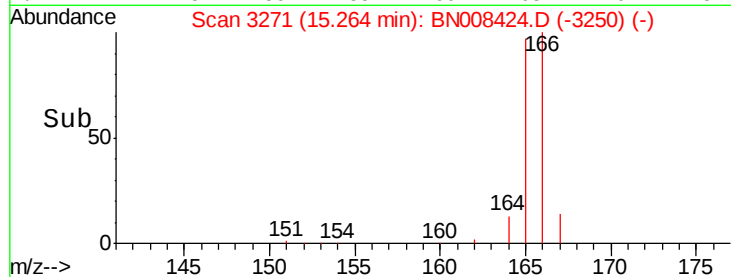
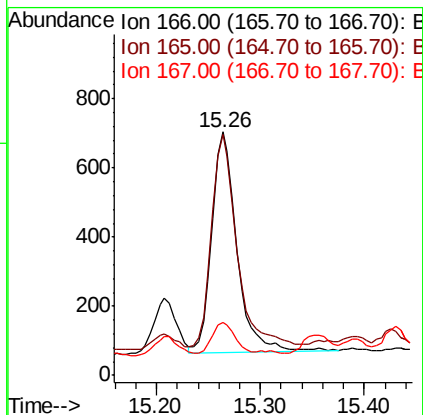
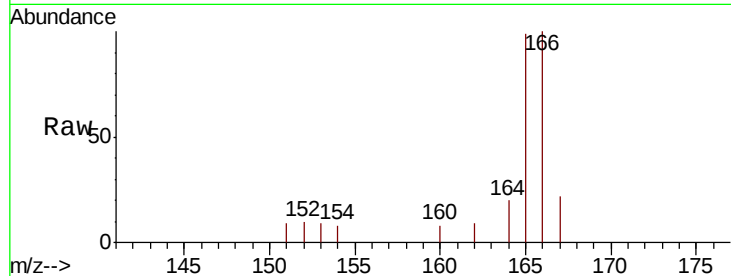
ClientSampleId :

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|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 166   | Resp: | 1061  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 98.9  | 76.6  | 115.0 |
| 167      | 21.9  | 11.7  | 17.5# |

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#12

Phenanthrene

Concen: 0.729 ng/ul

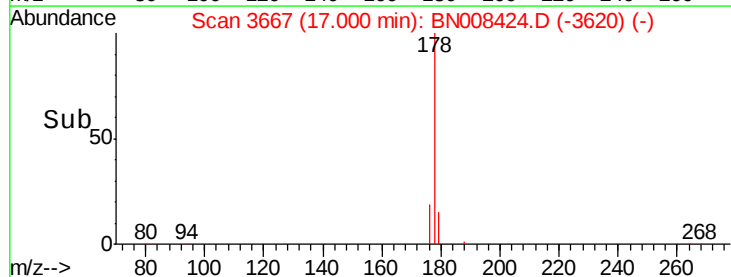
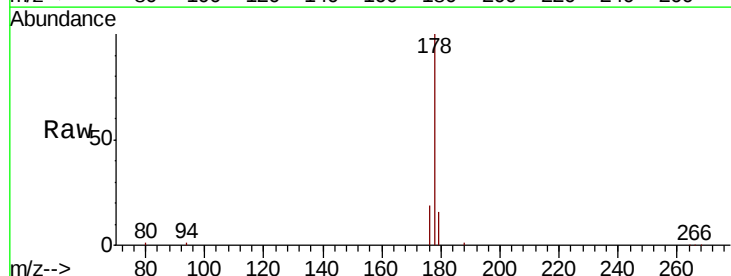
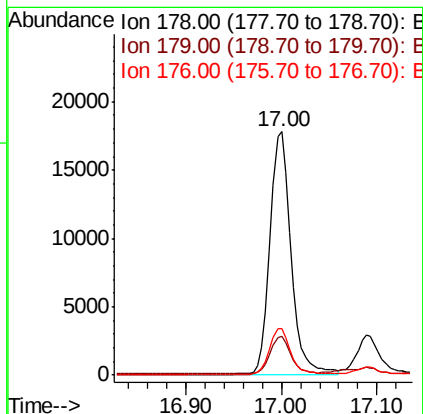
RT: 17.00 min Scan# 3667

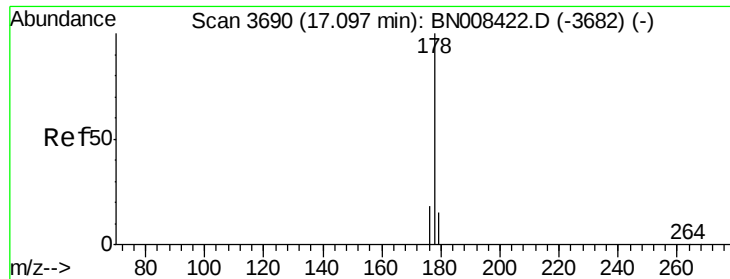
Delta R.T. -0.00 min

Lab File: BN008424.D

Acq: 25 Oct 2019 13:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 27056 |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 15.8  | 12.8  | 19.2  |
| 176      | 18.8  | 15.4  | 23.2  |





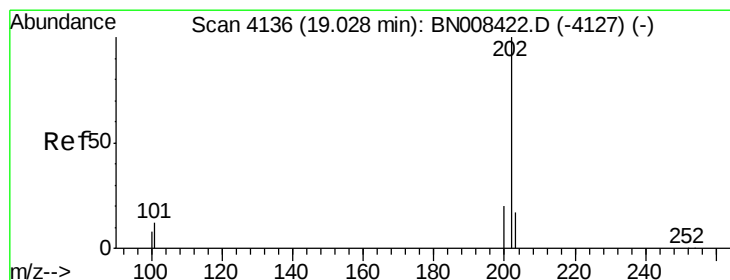
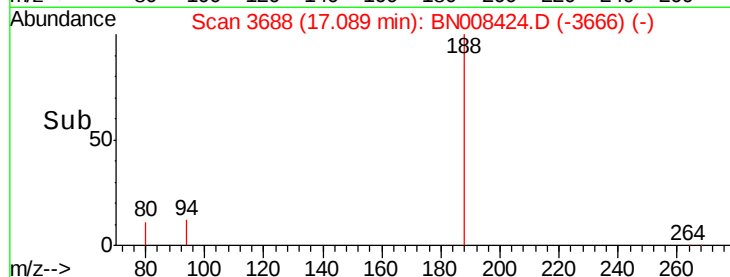
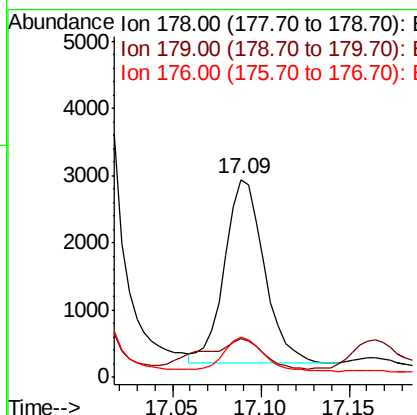
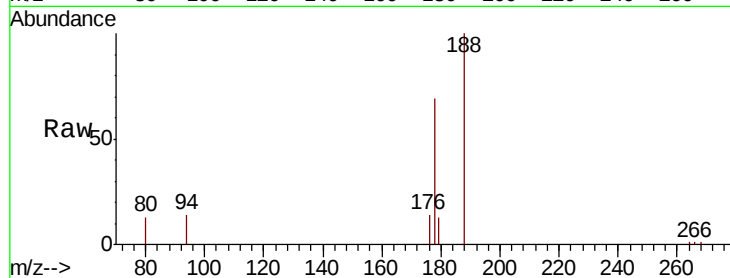
#13  
 Anthracene  
 Concen: 0.129 ng/ul  
 RT: 17.09 min Scan# 3688  
 Delta R.T. -0.01 min  
 Lab File: BN008424.D  
 Acq: 25 Oct 2019 13:28

Instrument :  
 BNA\_N  
 ClientSampleID :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 19.6  | 13.0  | 19.6# |
| 176     | 20.2  | 15.0  | 22.6  |

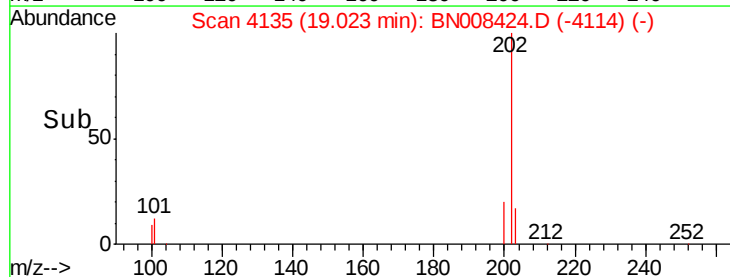
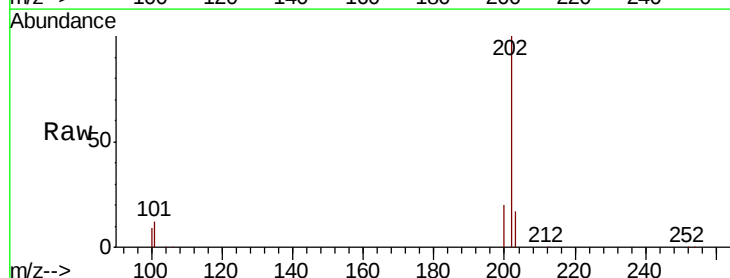
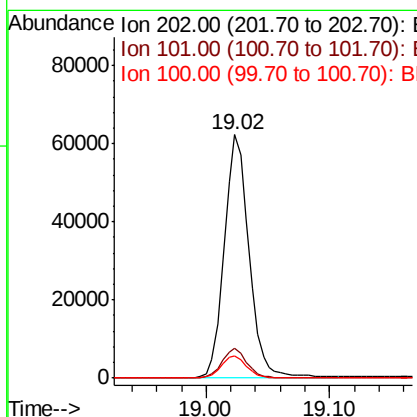
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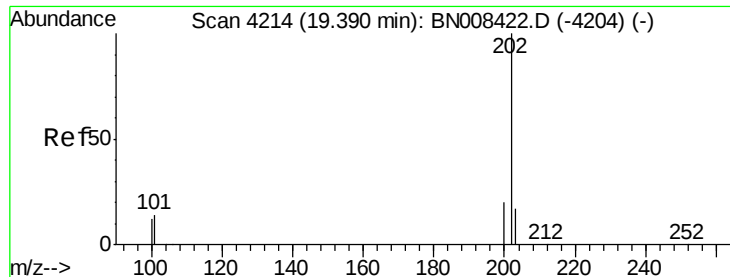
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#15  
 Fluoranthene  
 Concen: 1.764 ng/ul  
 RT: 19.02 min Scan# 4135  
 Delta R.T. -0.00 min  
 Lab File: BN008424.D  
 Acq: 25 Oct 2019 13:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.2  | 0.0   | 31.2  |
| 100     | 9.2   | 0.0   | 28.5  |





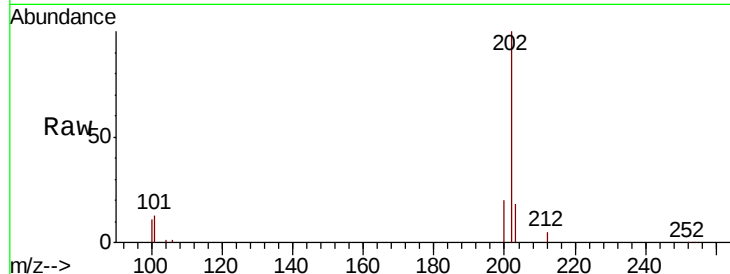
#17  
Pvrene  
Concen: 1.772 ng/ul  
RT: 19.39 min Scan# 4214  
Delta R.T. -0.00 min  
Lab File: BN008424.D  
Acq: 25 Oct 2019 13:28

Instrument :  
BNA\_N  
ClientSampleId :  
BEPMDL

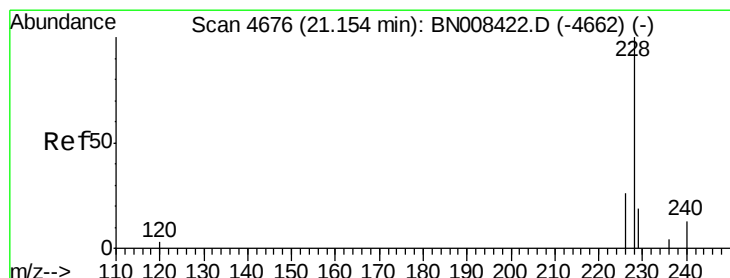
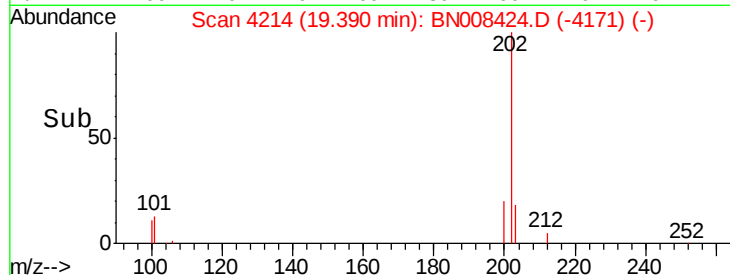
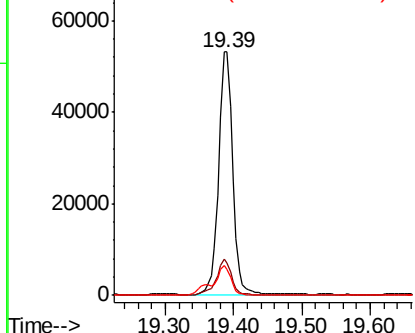
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.4  | 10.9  | 16.3  |
| 100     | 10.9  | 8.7   | 13.1  |

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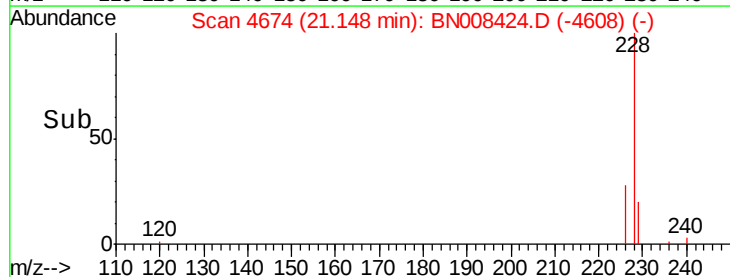
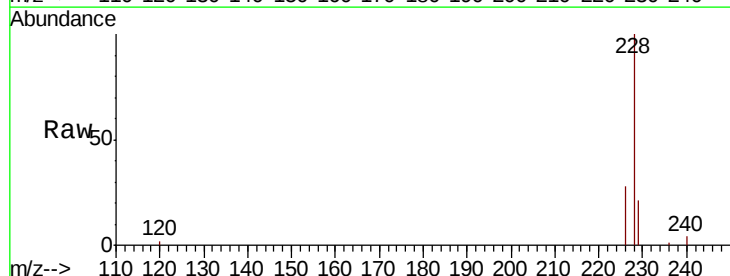
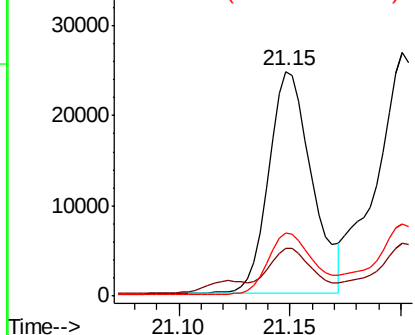
Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

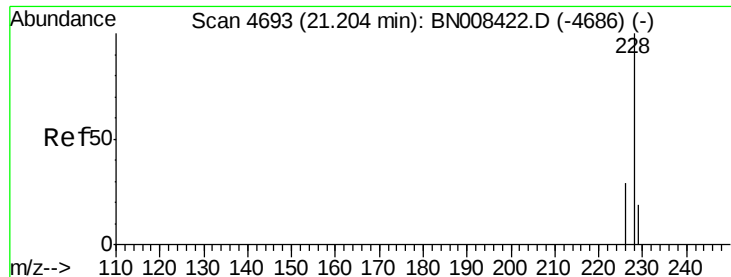


#18  
Benzo(a)anthracene  
Concen: 0.837 ng/ul  
RT: 21.15 min Scan# 4674  
Delta R.T. -0.01 min  
Lab File: BN008424.D  
Acq: 25 Oct 2019 13:28

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

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





#19

Chrysene

Concen: 0.873 ng/ul

RT: 21.20 min Scan# 4692

Delta R.T. -0.00 min

Lab File: BN008424.D

Acq: 25 Oct 2019 13:28

Instrument :

BNA\_N

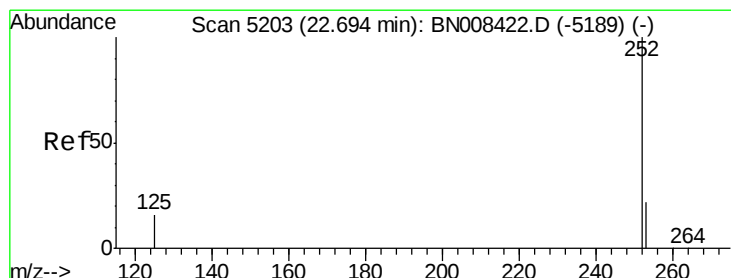
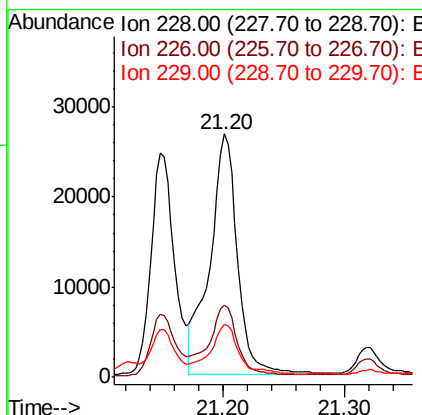
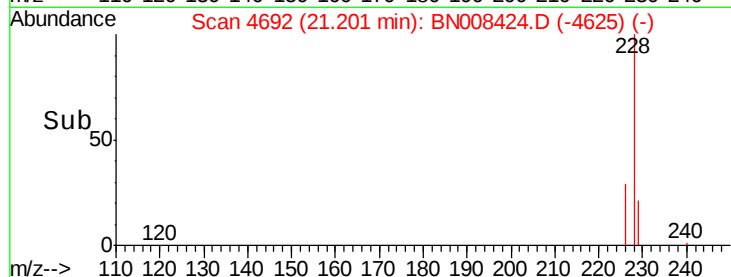
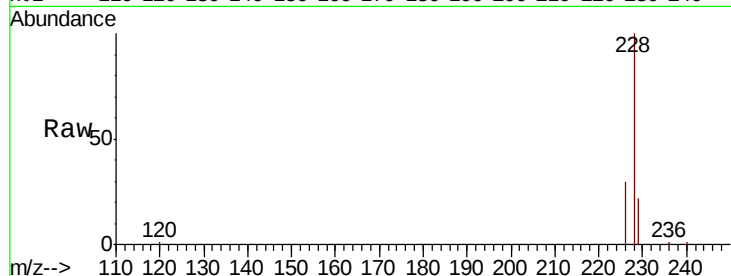
ClientSampleID :

BEPM7DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 42668 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.8  | 24.1  | 36.1  |
| 229       | 21.7  | 16.2  | 24.2  |

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#21

Benzo(b)fluoranthene

Concen: 1.581 ng/ul m

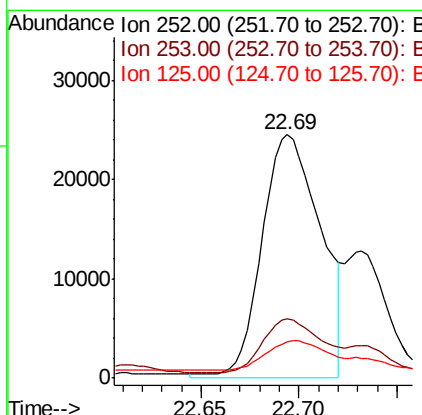
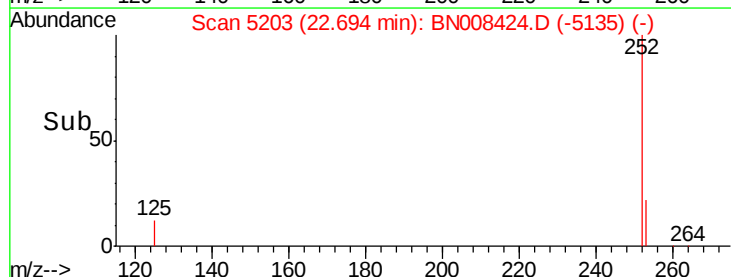
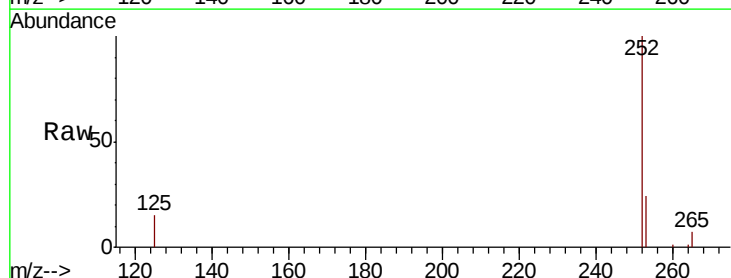
RT: 22.69 min Scan# 5203

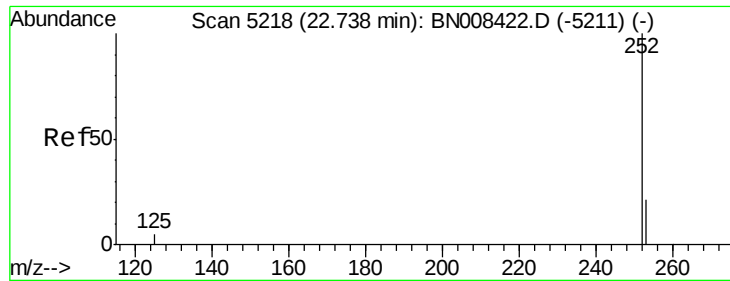
Delta R.T. -0.00 min

Lab File: BN008424.D

Acq: 25 Oct 2019 13:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 51189 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.2  | 0.0   | 53.4  |
| 125       | 14.8  | 0.0   | 32.4  |





#22

Benzo(k)fluoranthene

Concen: 0.590 ng/ul m

RT: 22.73 min Scan# 5216

Delta R.T. -0.01 min

Lab File: BN008424.D

Acq: 25 Oct 2019 13:28

Instrument :

BNA\_N

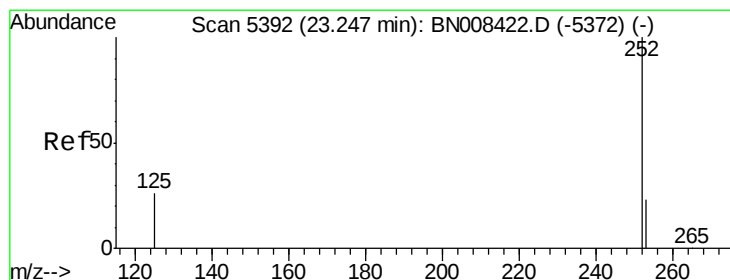
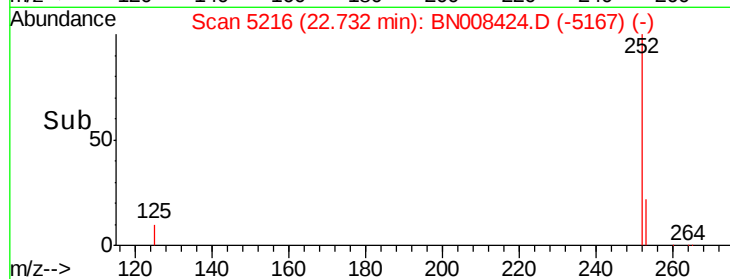
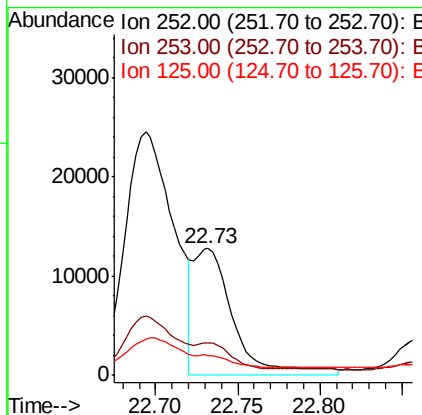
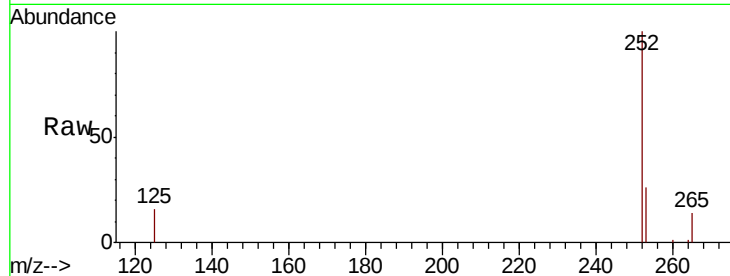
ClientSampleId :

BEPMDL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 21627 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.9  | 21.3  | 31.9  |
| 125       | 15.7  | 12.3  | 18.5  |

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#23

Benzo(a)pyrene

Concen: 0.892 ng/ul

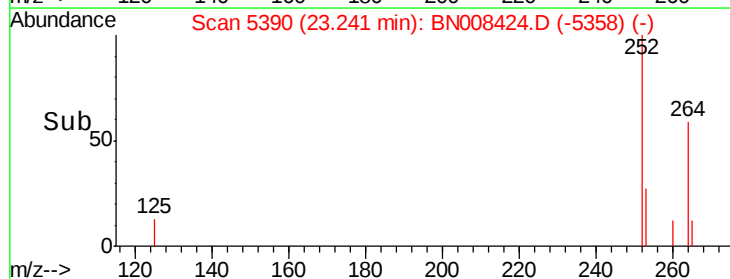
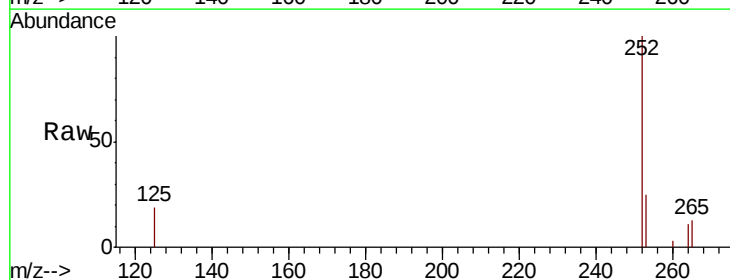
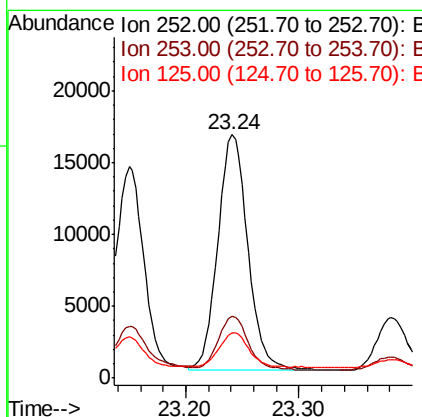
RT: 23.24 min Scan# 5390

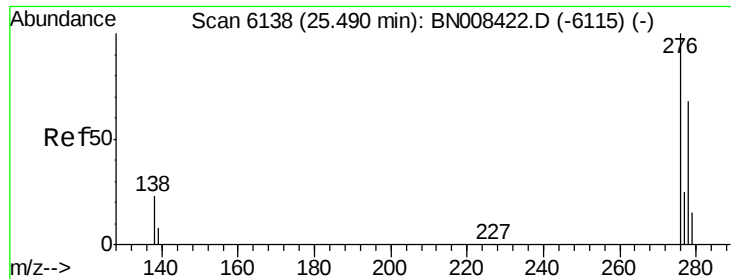
Delta R.T. -0.01 min

Lab File: BN008424.D

Acq: 25 Oct 2019 13:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 30391 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.3  | 22.8  | 34.2  |
| 125       | 18.7  | 18.4  | 27.6  |





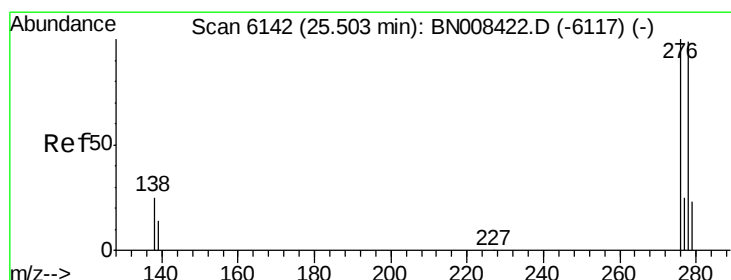
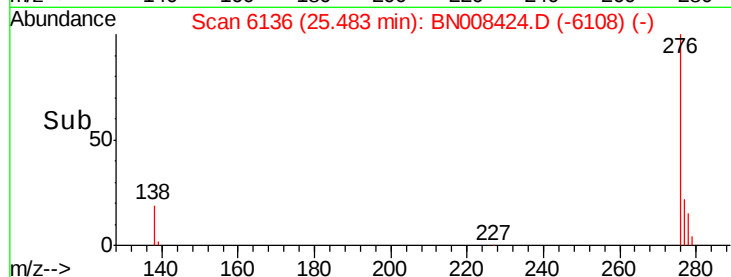
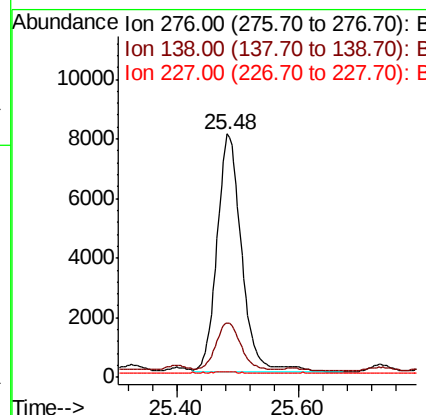
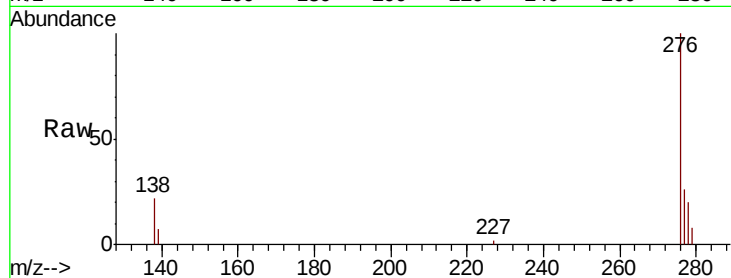
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.558 ng/ul  
 RT: 25.48 min Scan# 6136  
 Delta R.T. -0.01 min  
 Lab File: BN008424.D  
 Acq: 25 Oct 2019 13:28

Instrument :  
 BNA\_N  
 ClientSampleID :  
 BEPM7DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.5  | 16.1  | 24.1  |
| 227     | 0.2   | 0.2   | 0.2   |

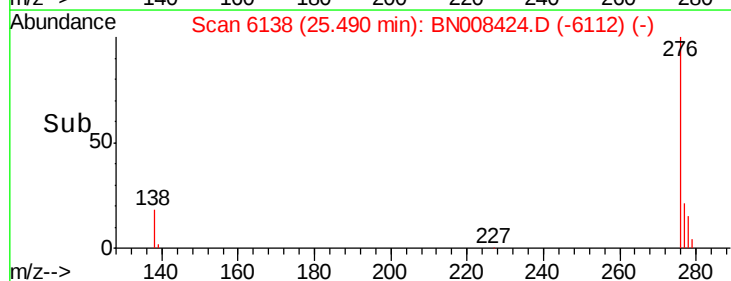
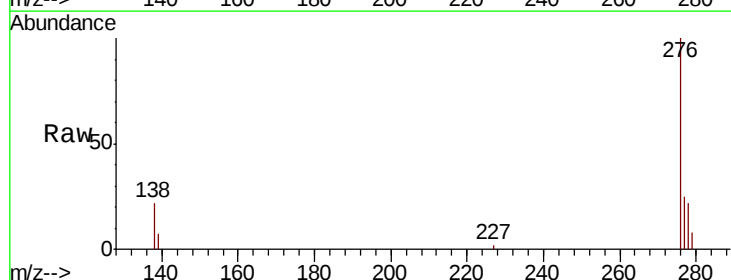
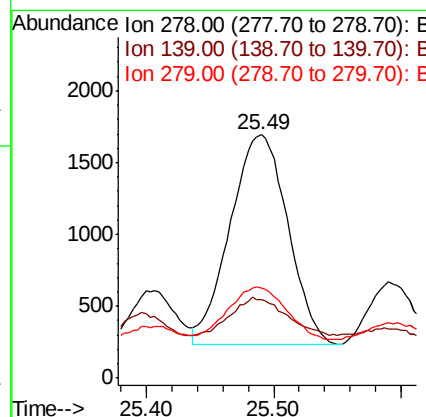
Manual Integrations  
 APPROVED

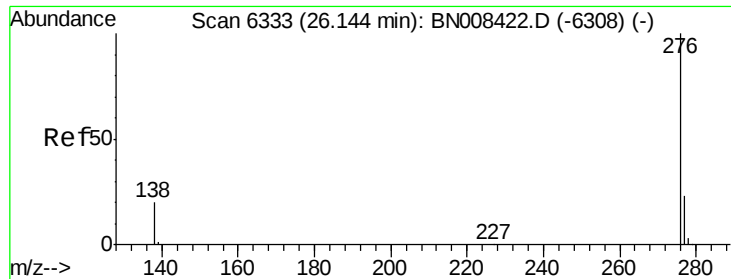
mohammad  
 10/25/2019 9:28:56 PM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.145 ng/ul  
 RT: 25.49 min Scan# 6138  
 Delta R.T. -0.01 min  
 Lab File: BN008424.D  
 Acq: 25 Oct 2019 13:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 32.3  | 15.0  | 22.6# |
| 279     | 37.2  | 22.4  | 33.6# |





#26  
Benzo(a,h,i)perylene  
Concen: 0.596 ng/ul  
RT: 26.14 min Scan# 6332  
Delta R.T. -0.00 min  
Lab File: BN008424.D  
Acq: 25 Oct 2019 13:28

Instrument :  
BNA\_N  
ClientSampleId :  
BEPM7DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.1  | 17.0  | 25.4  |
| 277     | 25.6  | 20.4  | 30.6  |

Manual Integrations  
APPROVED

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10/25/2019 9:28:56 PM

