

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102419\  
 Data File : BN008415.D  
 Acq On : 25 Oct 2019 07:31  
 Operator : JU  
 Sample : K5236-10  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPL9

Manual Integrations  
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mohammad  
 10/25/2019 9:28:24 PM

Quant Time: Oct 25 12:06:18 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 00:45:13 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.57  | 152  | 1658     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.33 | 136  | 8381     | 0.40  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.21 | 164  | 5400     | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.96 | 188  | 12279    | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.17 | 240  | 11116    | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.34 | 264  | 9108     | 0.40  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.93 | 152  | 2242     | 0.16  | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.00 | 212  | 7588     | 0.18  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.38 | 128  | 5998     | 0.251 | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.01 | 142  | 2285     | 0.140 | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.93 | 152  | 36806    | 1.431 | ng/ul  | 99       |
| 8) Acenaphthene             | 14.27 | 153  | 1981     | 0.099 | ng/ul  | 95       |
| 9) Fluorene                 | 15.26 | 166  | 15149    | 0.667 | ng/ul  | 99       |
| 12) Phenanthrene            | 17.00 | 178  | 252683   | 7.029 | ng/ul  | 99       |
| 13) Anthracene              | 17.09 | 178  | 46621    | 1.474 | ng/ul  | 99       |
| 15) Fluoranthene            | 19.03 | 202  | 450552   | 9.489 | ng/ul  | 99       |
| 17) Pyrene                  | 19.39 | 202  | 320799   | 7.248 | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.15 | 228  | 185200   | 4.583 | ng/ul  | 97       |
| 19) Chrysene                | 21.20 | 228  | 175131   | 3.531 | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.70 | 252  | 196637m  | 6.632 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.73 | 252  | 76144m   | 2.267 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.25 | 252  | 120500   | 3.862 | ng/ul# | 88       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.49 | 276  | 92348    | 2.513 | ng/ul# | 99       |
| 25) Dibenzo(a,h)anthracene  | 25.49 | 278  | 21936    | 0.755 | ng/ul# | 89       |
| 26) Benzo(a,h,i)perylene    | 26.14 | 276  | 102089   | 3.030 | ng/ul  | 98       |

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

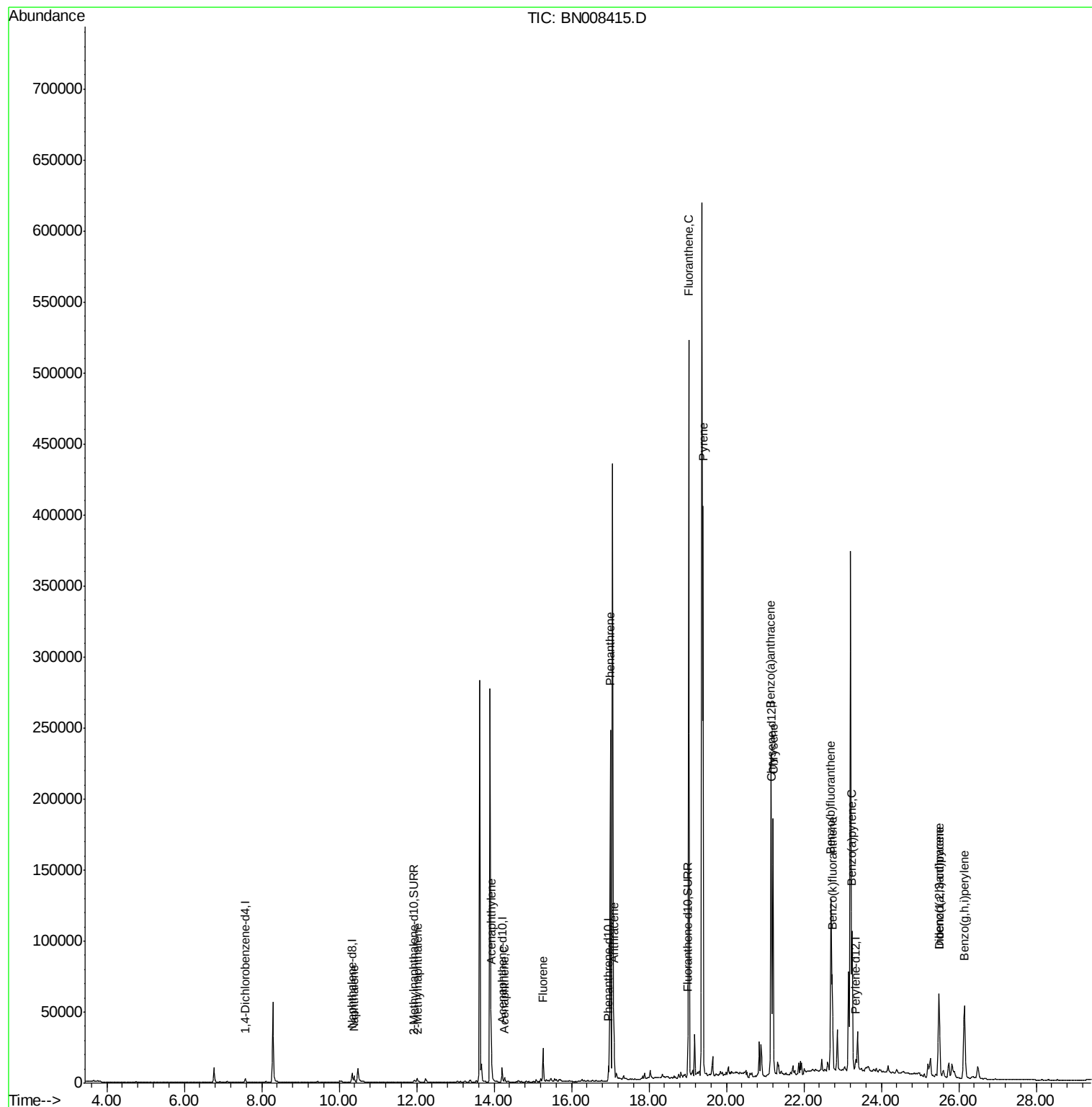
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102419\  
Data File : BN008415.D  
Acq On : 25 Oct 2019 07:31  
Operator : JU  
Sample : K5236-10  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

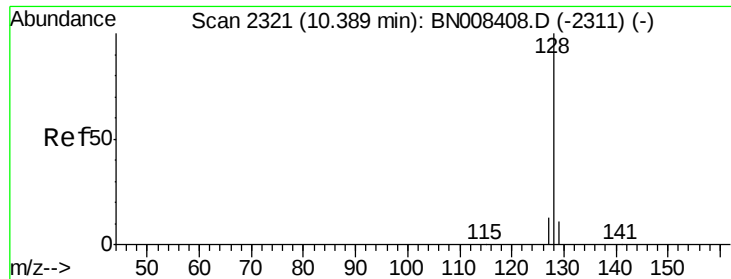
Instrument :  
BNA\_N  
ClientSampleId :  
BEPL9

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Quant Time: Oct 25 12:06:18 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 00:45:13 2019  
Response via : Initial Calibration





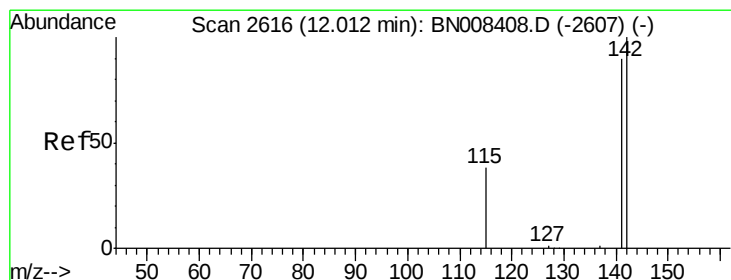
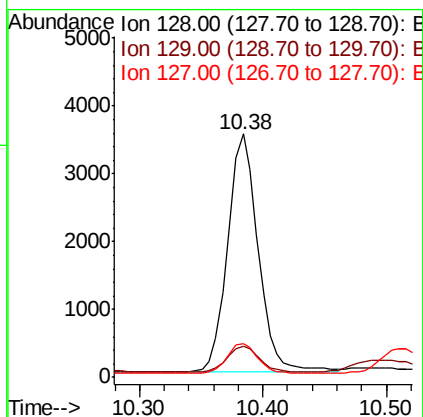
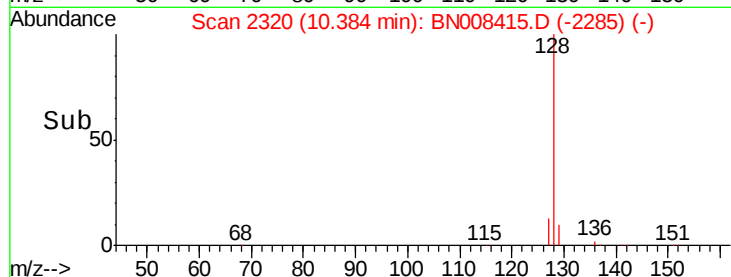
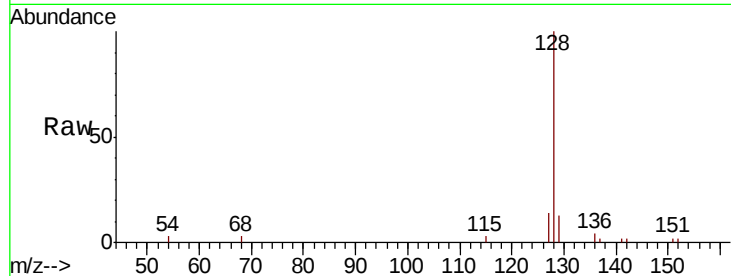
#3  
Naphthalene  
Concen: 0.251 ng/ul  
RT: 10.38 min Scan# 2320  
Delta R.T. -0.01 min  
Lab File: BN008415.D  
Acq: 25 Oct 2019 07:31

Instrument :  
BNA\_N  
ClientSampleId :  
BEPL9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 13.0  | 9.8   | 14.8  |
| 127     | 14.1  | 11.1  | 16.7  |

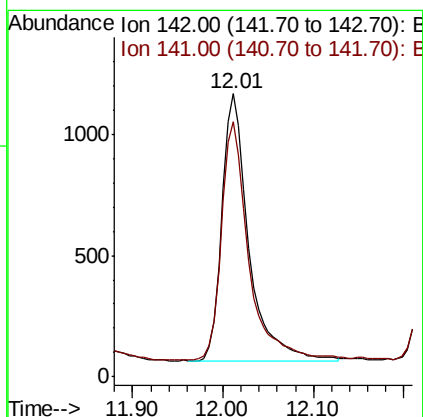
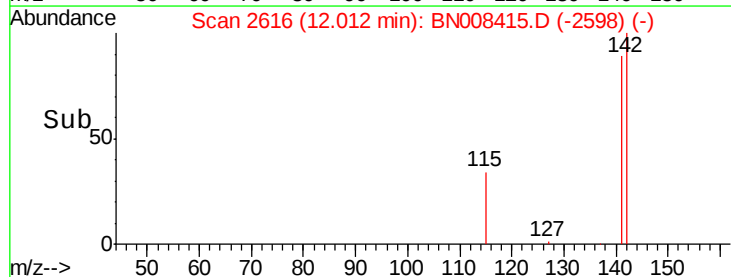
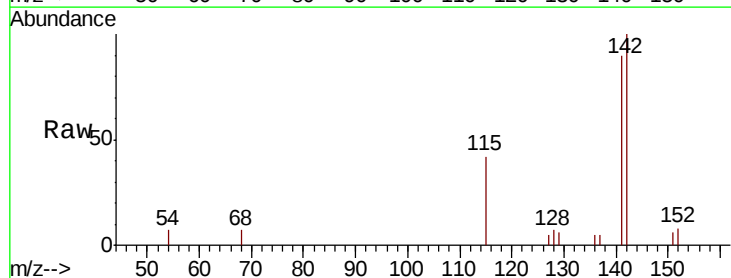
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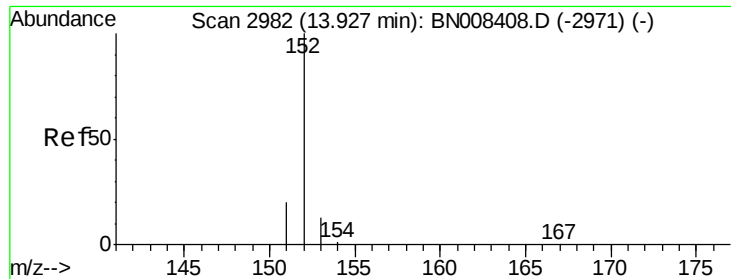
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#5  
2-Methylnaphthalene  
Concen: 0.140 ng/ul  
RT: 12.01 min Scan# 2616  
Delta R.T. 0.00 min  
Lab File: BN008415.D  
Acq: 25 Oct 2019 07:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.8  | 71.4  | 107.2 |





#7

Acenaphthylene

Concen: 1.431 ng/ul

RT: 13.93 min Scan# 2982

Delta R.T. 0.00 min

Lab File: BN008415.D

Acq: 25 Oct 2019 07:31

Instrument :

BNA\_N

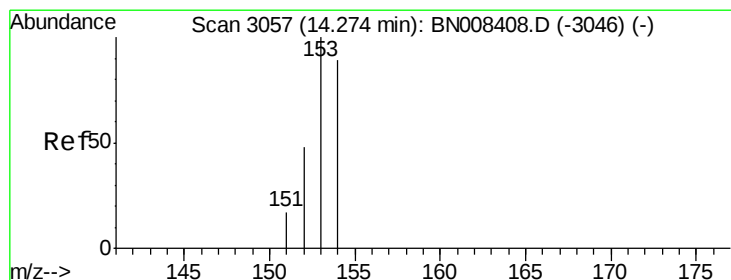
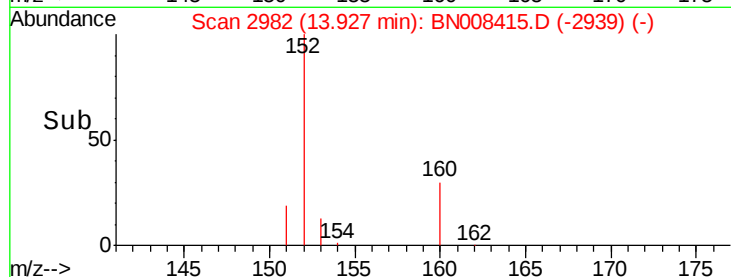
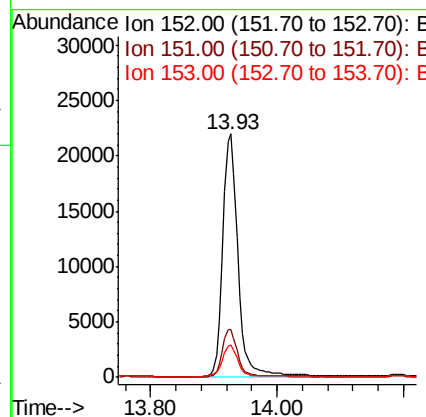
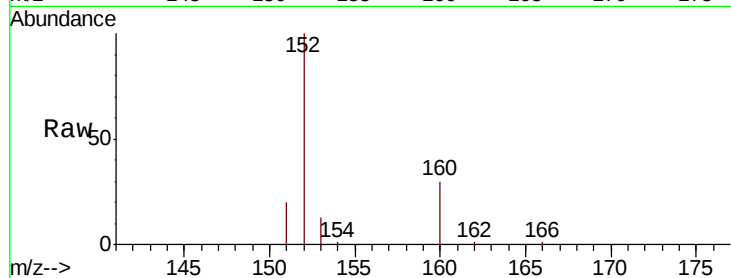
ClientSampled :

BEPL9

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 36806 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.7  | 16.2  | 24.4  |
| 153       | 13.4  | 11.0  | 16.4  |

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#8

Acenaphthene

Concen: 0.099 ng/ul

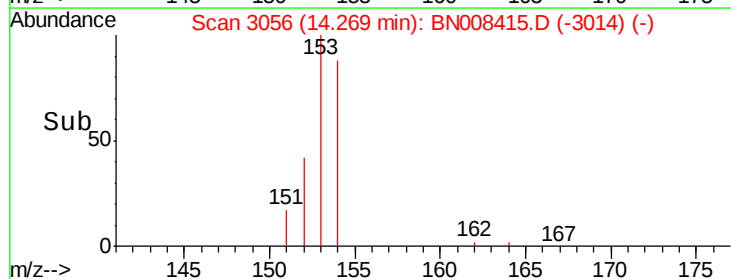
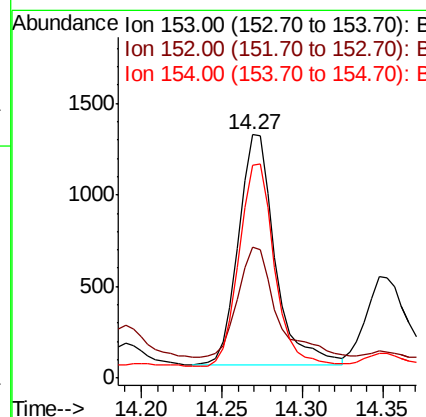
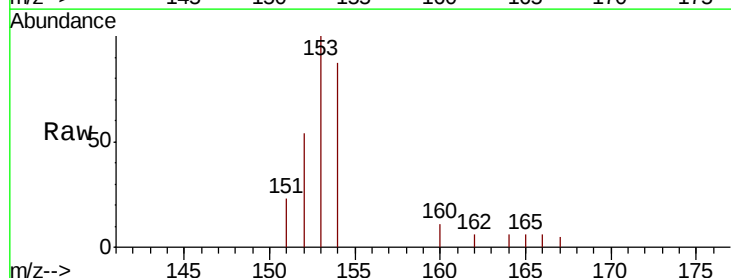
RT: 14.27 min Scan# 3056

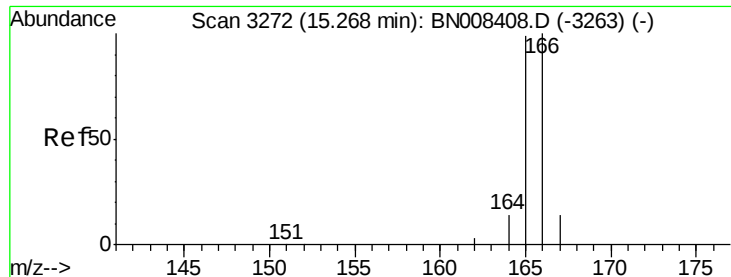
Delta R.T. -0.00 min

Lab File: BN008415.D

Acq: 25 Oct 2019 07:31

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 1981  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 53.6  | 38.2  | 57.2  |
| 154       | 87.4  | 71.8  | 107.8 |





#9

Fluorene

Concen: 0.667 ng/ul

RT: 15.26 min Scan# 3271

Delta R.T. -0.00 min

Lab File: BN008415.D

Acq: 25 Oct 2019 07:31

Instrument :

BNA\_N

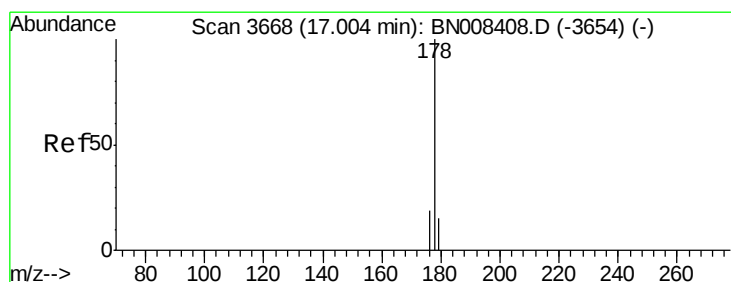
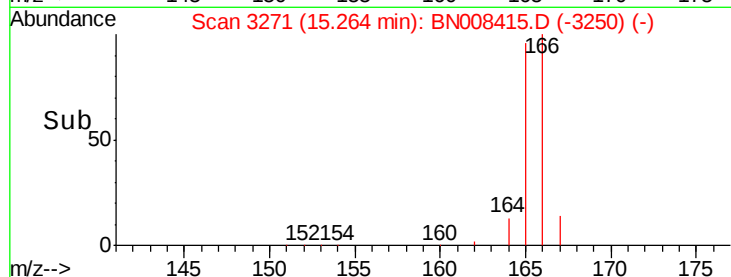
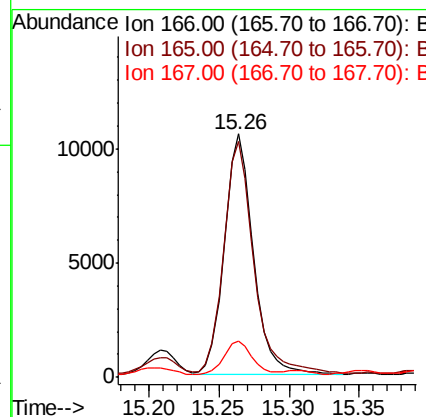
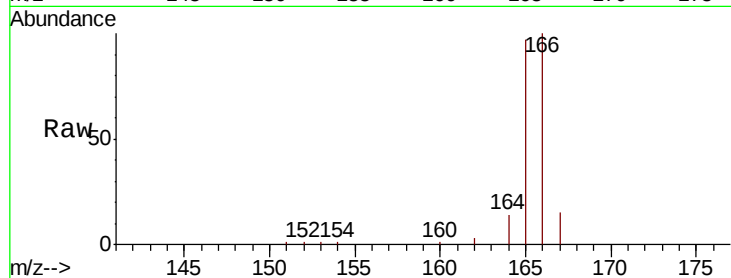
ClientSampleId :

BEPL9

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 15149 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 96.9  | 76.6  | 115.0 |
| 167       | 14.8  | 11.7  | 17.5  |

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#12

Phenanthrene

Concen: 7.029 ng/ul

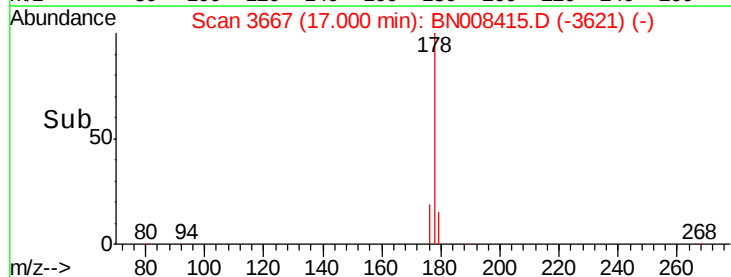
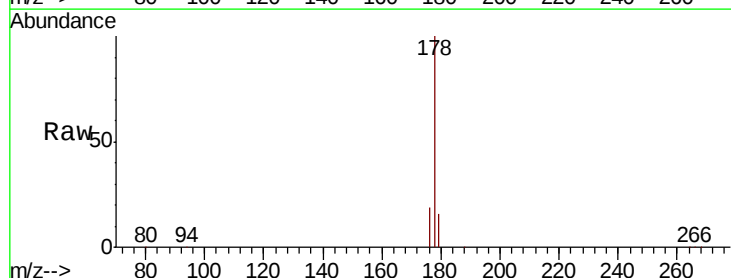
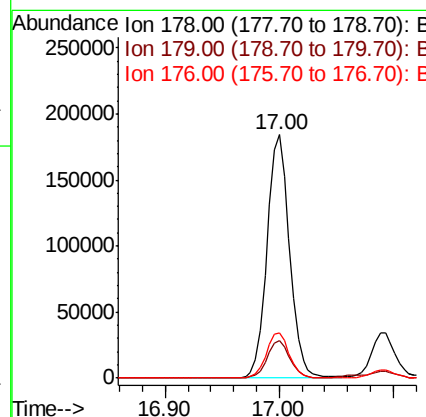
RT: 17.00 min Scan# 3667

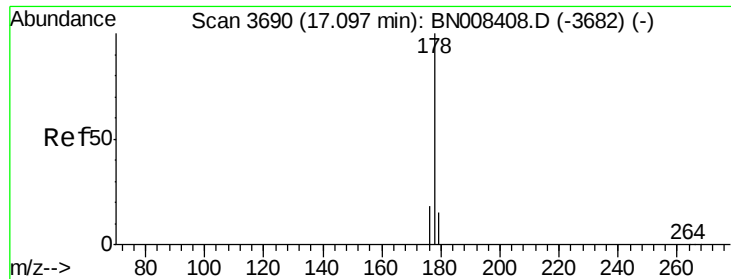
Delta R.T. -0.00 min

Lab File: BN008415.D

Acq: 25 Oct 2019 07:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 252683 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.5  | 12.8  | 19.2   |
| 176       | 18.6  | 15.4  | 23.2   |





#13

Anthracene

Concen: 1.474 ng/ul

RT: 17.09 min Scan# 3688

Delta R.T. -0.01 min

Lab File: BN008415.D

Acq: 25 Oct 2019 07:31

Instrument :

BNA\_N

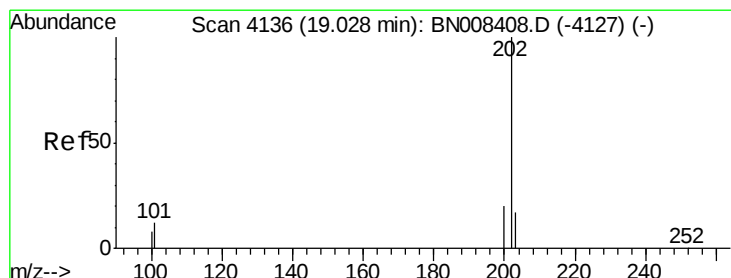
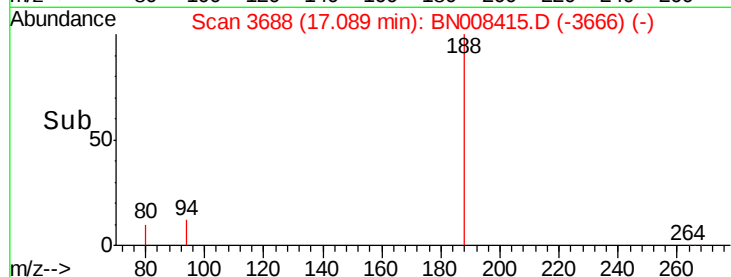
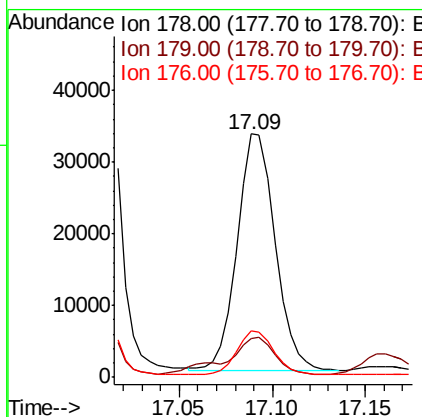
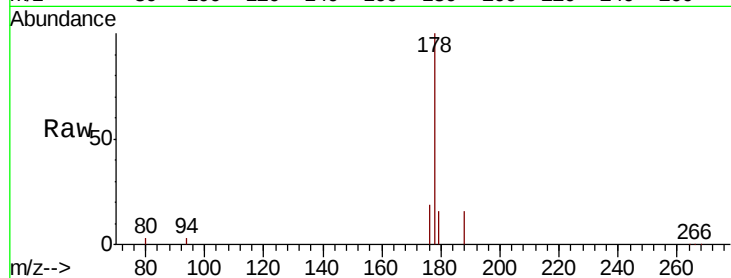
ClientSampleId :

BEPL9

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 46621 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.0  | 13.0  | 19.6  |
| 176       | 19.0  | 15.0  | 22.6  |

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#15

Fluoranthene

Concen: 9.489 ng/ul

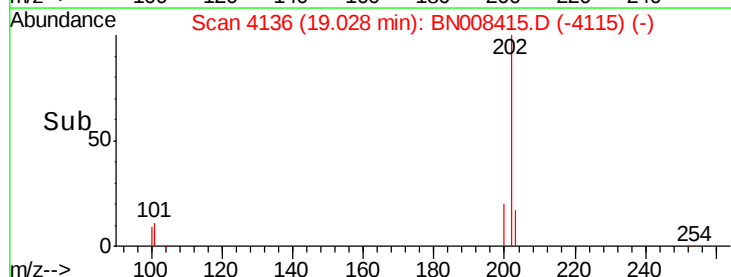
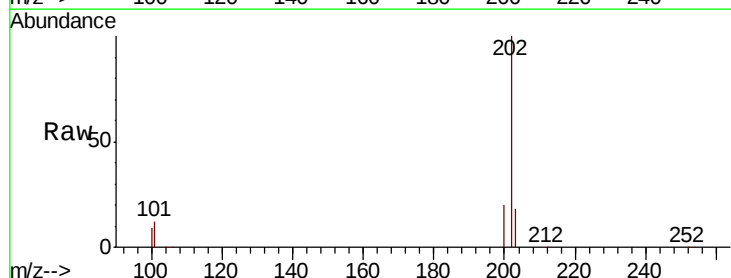
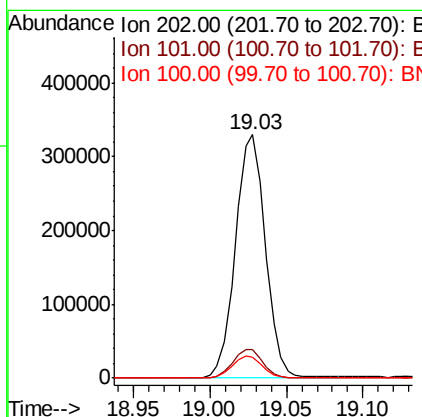
RT: 19.03 min Scan# 4136

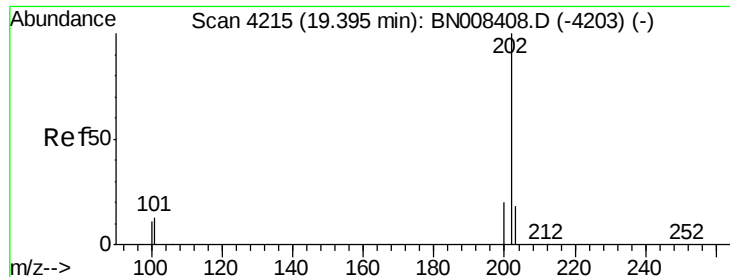
Delta R.T. -0.00 min

Lab File: BN008415.D

Acq: 25 Oct 2019 07:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 450552 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.5  | 0.0   | 31.2   |
| 100       | 8.6   | 0.0   | 28.5   |





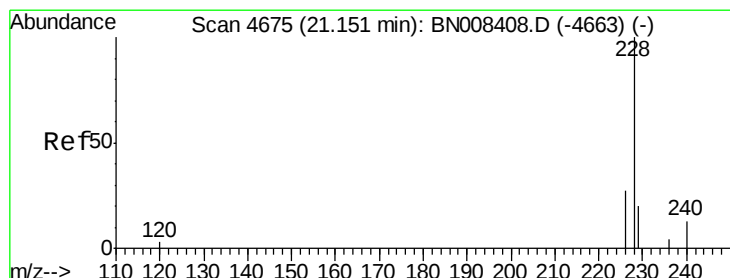
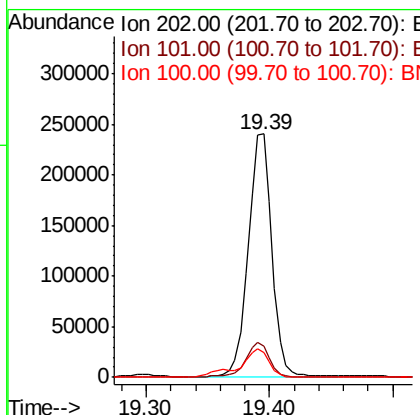
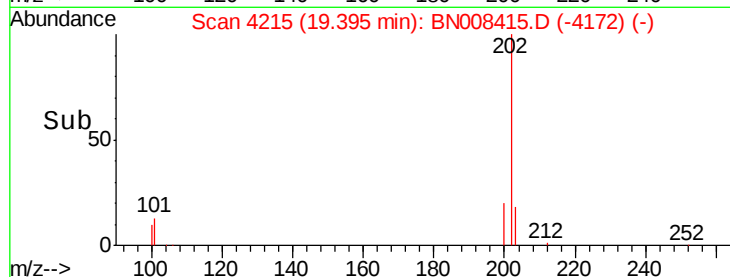
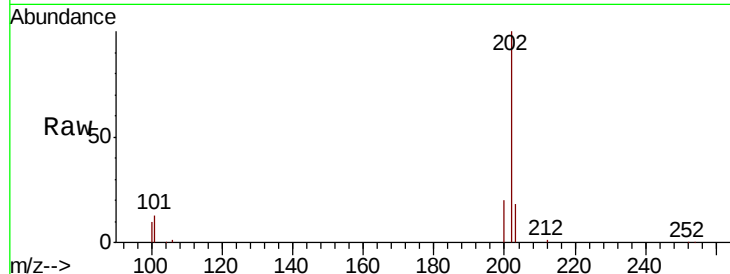
#17  
Pvrene  
Concen: 7.248 ng/ul  
RT: 19.39 min Scan# 4215  
Delta R.T. 0.00 min  
Lab File: BN008415.D  
Acq: 25 Oct 2019 07:31

Instrument :  
BNA\_N  
ClientSampleId :  
BEPL9

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.7  | 10.9       | 16.3  |
| 100     | 10.2  | 8.7        | 13.1  |

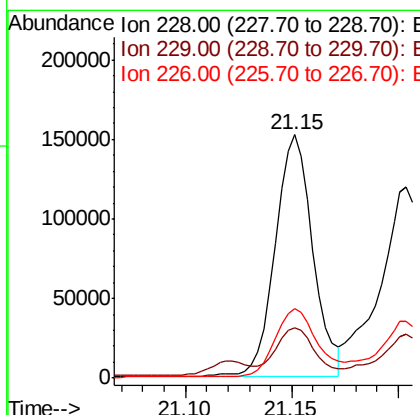
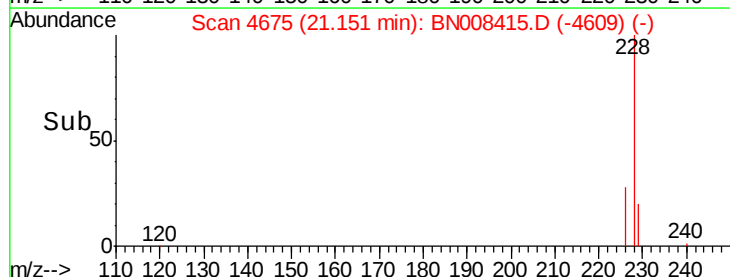
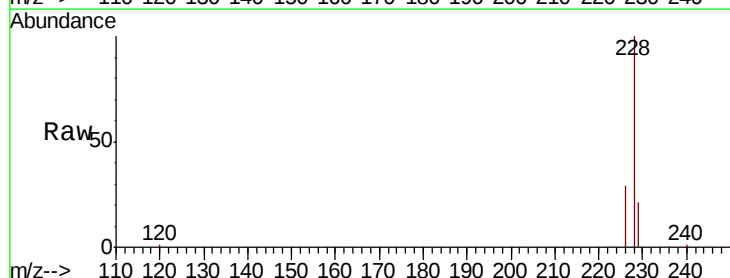
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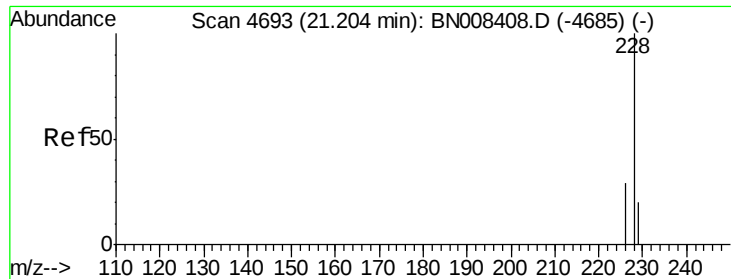
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#18  
Benzo(a)anthracene  
Concen: 4.583 ng/ul  
RT: 21.15 min Scan# 4675  
Delta R.T. -0.01 min  
Lab File: BN008415.D  
Acq: 25 Oct 2019 07:31

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 20.8  | 16.2       | 24.2  |
| 226     | 28.7  | 21.4       | 32.0  |





#19

Chrysene

Concen: 3.531 ng/ul

RT: 21.20 min Scan# 4693

Delta R.T. -0.00 min

Lab File: BN008415.D

Acq: 25 Oct 2019 07:31

Instrument :

BNA\_N

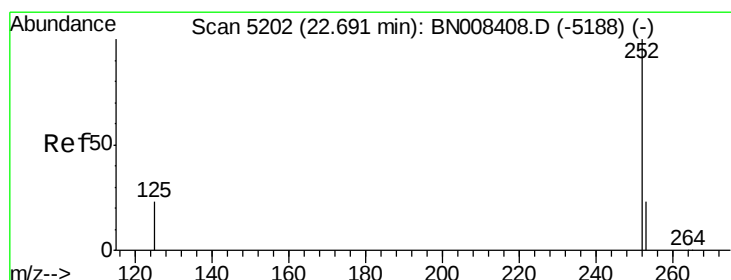
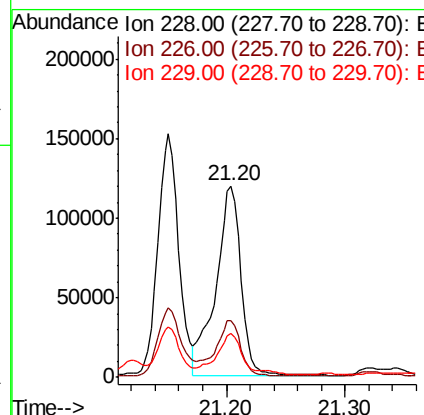
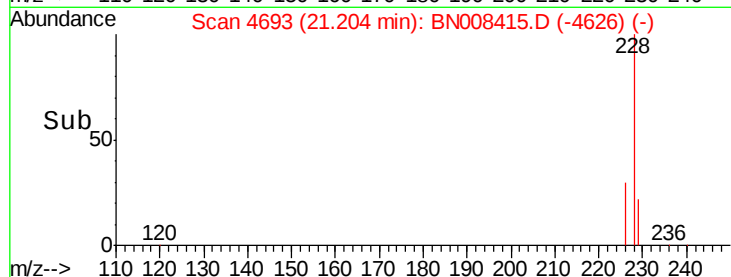
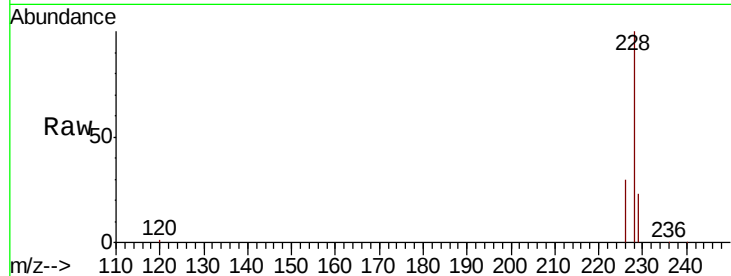
ClientSampled :

BEPL9

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 175131 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.8  | 24.1  | 36.1   |
| 229       | 22.9  | 16.2  | 24.2   |

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#21

Benzo(b)fluoranthene

Concen: 6.632 ng/ul m

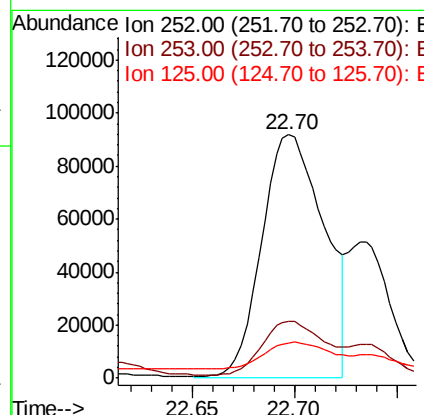
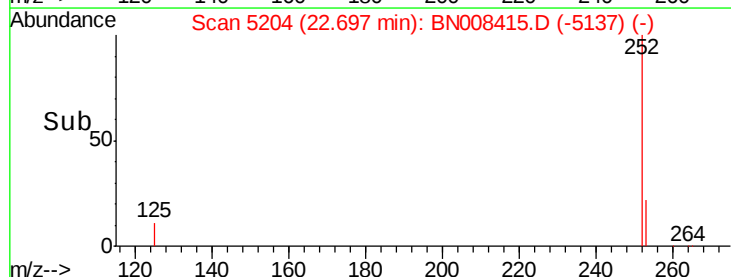
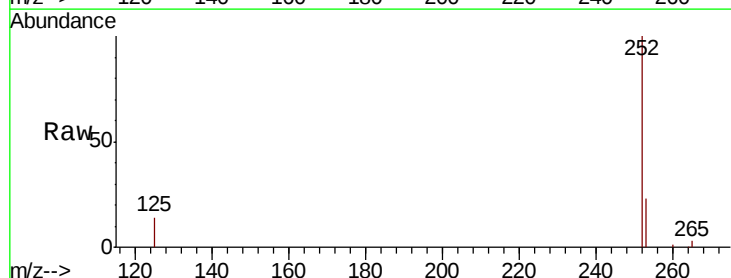
RT: 22.70 min Scan# 5204

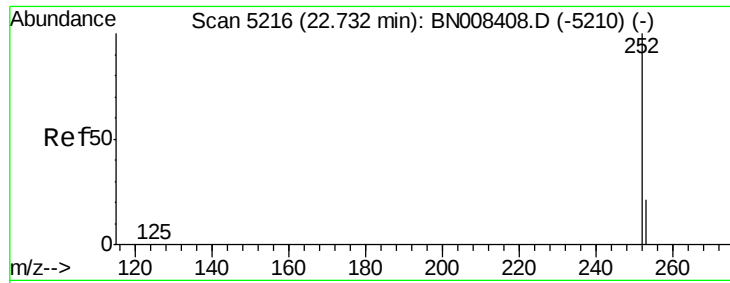
Delta R.T. -0.00 min

Lab File: BN008415.D

Acq: 25 Oct 2019 07:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 196637 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.4  | 0.0   | 53.4   |
| 125       | 14.4  | 0.0   | 32.4   |





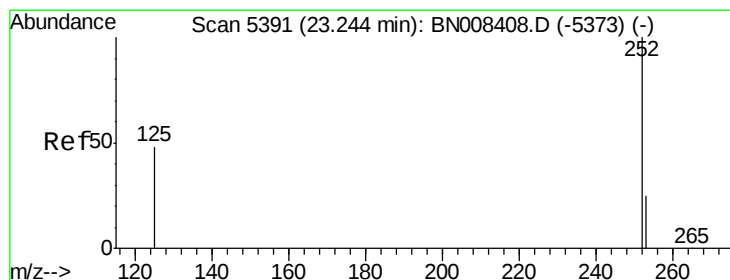
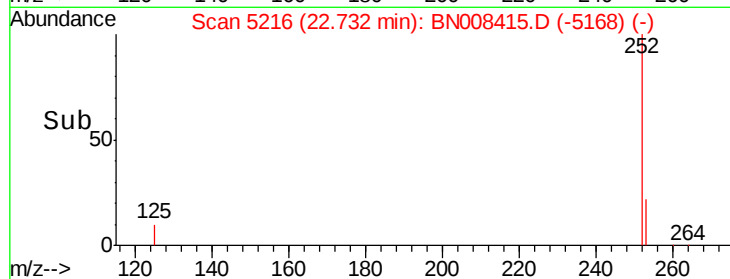
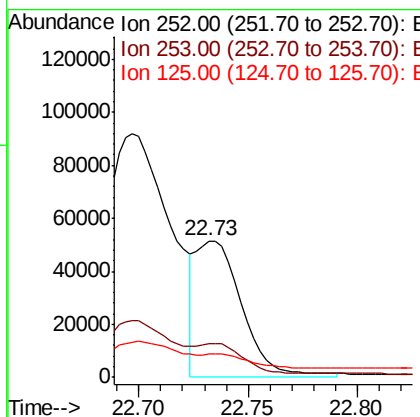
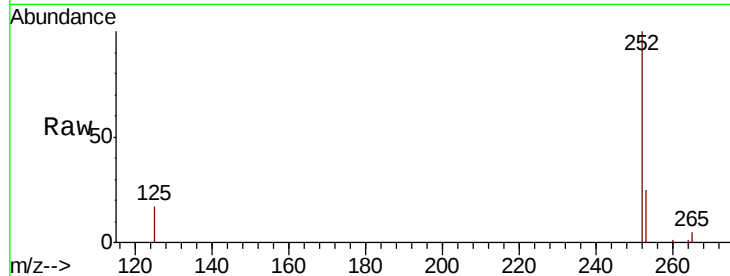
#22  
Benzo(k)fluoranthene  
Concen: 2.267 ng/ul m  
RT: 22.73 min Scan# 5216  
Delta R.T. -0.01 min  
Lab File: BN008415.D  
Acq: 25 Oct 2019 07:31

Instrument :  
BNA\_N  
ClientSampled :  
BEPL9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 21.3  | 31.9  |
| 125     | 17.0  | 12.3  | 18.5  |

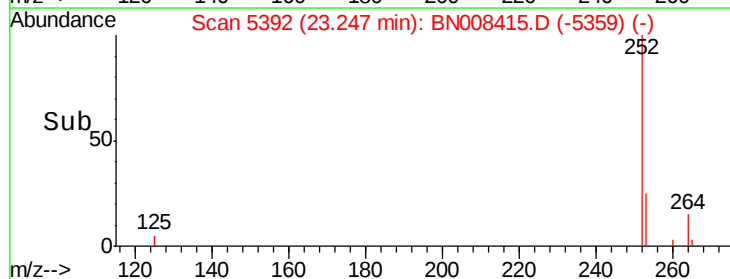
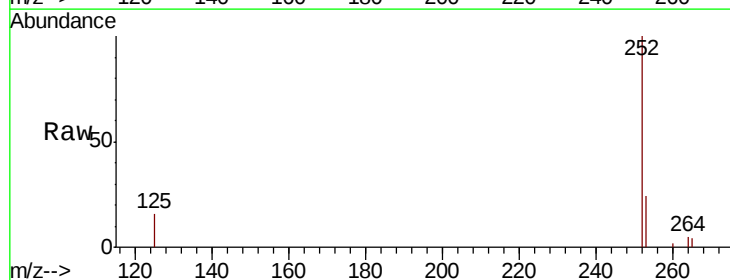
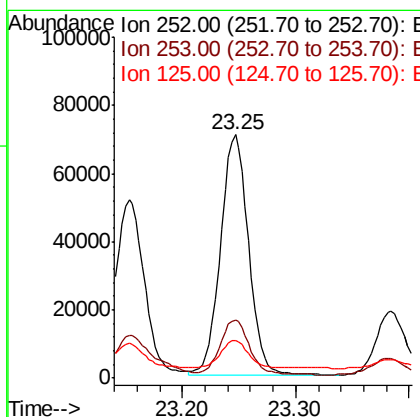
Manual Integrations  
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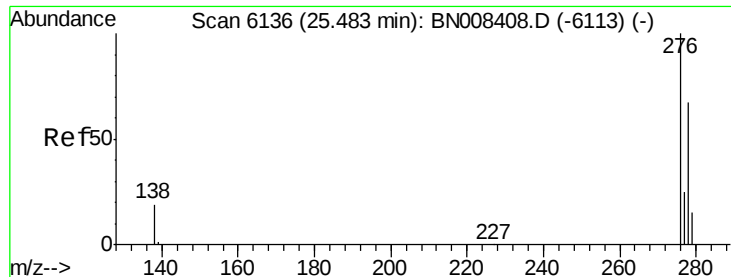
mohammad  
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#23  
Benzo(a)pyrene  
Concen: 3.862 ng/ul  
RT: 23.25 min Scan# 5392  
Delta R.T. -0.00 min  
Lab File: BN008415.D  
Acq: 25 Oct 2019 07:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 22.8  | 34.2  |
| 125     | 15.5  | 18.4  | 27.6# |





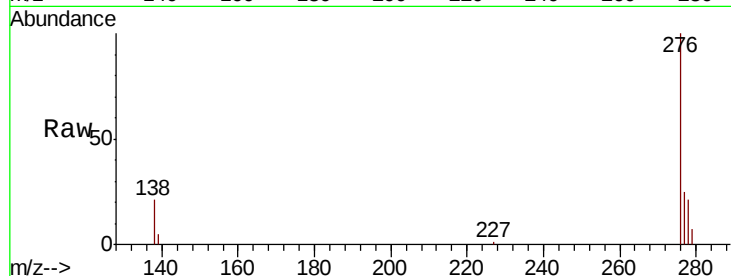
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 2.513 ng/ul  
RT: 25.49 min Scan# 6137  
Delta R.T. -0.01 min  
Lab File: BN008415.D  
Acq: 25 Oct 2019 07:31

Instrument :  
BNA\_N  
ClientSampled :  
BEPL9

| 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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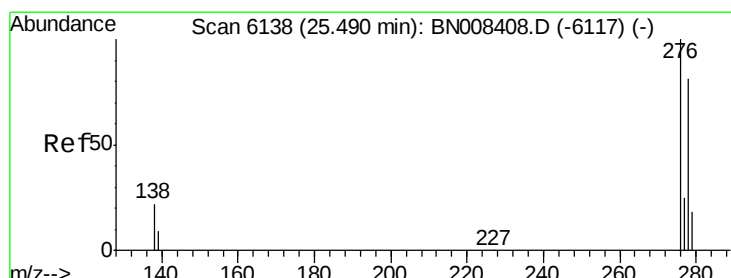
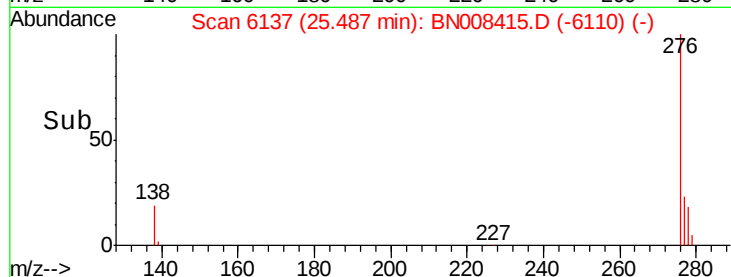
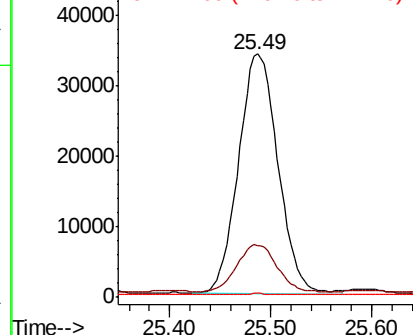


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E



#25  
Dibenzo(a,h)anthracene  
Concen: 0.755 ng/ul  
RT: 25.49 min Scan# 6139  
Delta R.T. -0.01 min  
Lab File: BN008415.D  
Acq: 25 Oct 2019 07:31

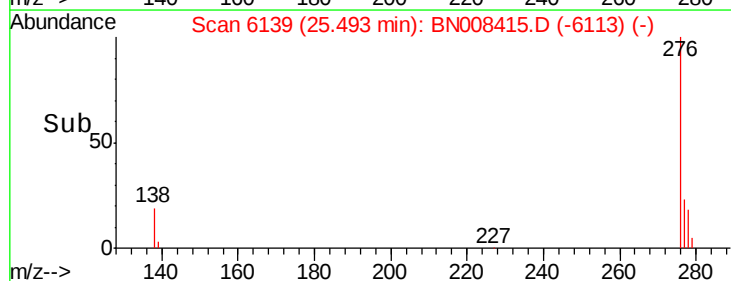
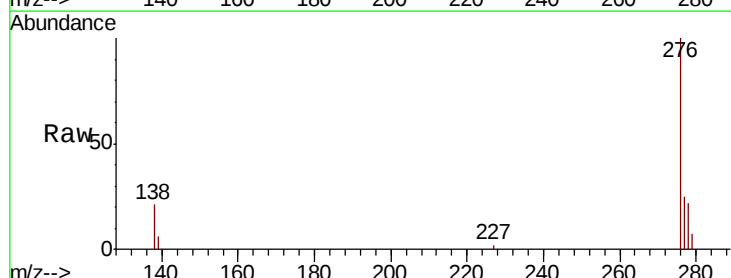
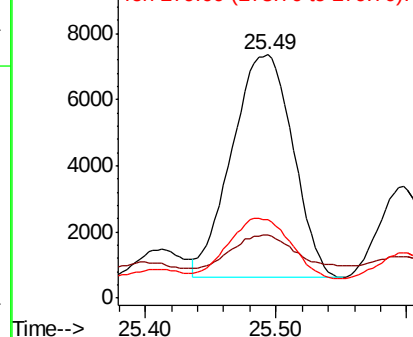
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 26.0  | 15.0  | 22.6  |
| 279     | 32.0  | 22.4  | 33.6  |

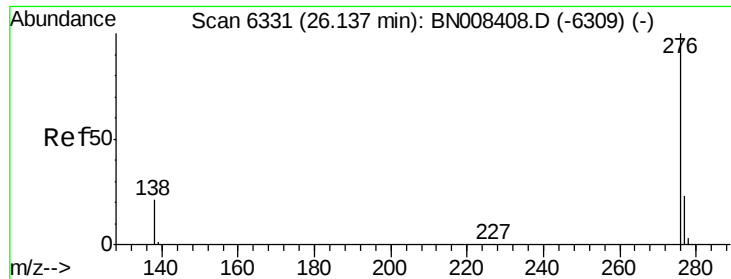
Abundance

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





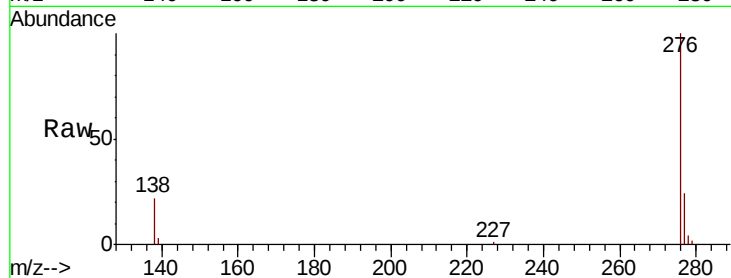
#26  
Benzo(a,h,i)perylene  
Concen: 3.030 ng/ul  
RT: 26.14 min Scan# 6333  
Delta R.T. -0.00 min  
Lab File: BN008415.D  
Acq: 25 Oct 2019 07:31

Instrument :  
BNA\_N  
ClientSampleId :  
BEPL9

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 21.7  | 17.0       | 25.4  |
| 277     | 24.4  | 20.4       | 30.6  |

Manual Integrations  
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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

