

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101420\  
 Data File : BN012208.D  
 Acq On : 14 Oct 2020 23:19  
 Operator : CG/JU  
 Sample : L4166-08DL 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AC9DL

Manual Integrations  
 APPROVED

mohammad  
 10/15/2020 8:21:11 AM

Quant Time: Oct 15 01:23:40 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101420.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 15 00:46:15 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 1561     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.39 | 136  | 6214     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.26 | 164  | 3545     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.01 | 188  | 7364     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.21 | 240  | 6418     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.39 | 264  | 6740     | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.00 | 152  | 305      | 0.03   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.05 | 212  | 684      | 0.03   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.44 | 128  | 1607     | 0.090  | ng/ul# | 93       |
| 7) Acenaphthylene           | 13.98 | 152  | 448      | 0.029  | ng/ul# | 68       |
| 8) Acenaphthene             | 14.32 | 153  | 7859     | 0.605  | ng/ul  | 99       |
| 9) Fluorene                 | 15.31 | 166  | 2918     | 0.202  | ng/ul  | 99       |
| 12) Phenanthrene            | 17.05 | 178  | 5748     | 0.245  | ng/ul  | 99       |
| 13) Anthracene              | 17.14 | 178  | 6093     | 0.303  | ng/ul  | 100      |
| 15) Fluoranthene            | 19.07 | 202  | 31209    | 1.137  | ng/ul  | 98       |
| 17) Pyrene                  | 19.44 | 202  | 22984    | 0.794  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.19 | 228  | 6487     | 0.273  | ng/ul  | 96       |
| 19) Chrysene                | 21.24 | 228  | 9966     | 0.344  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.74 | 252  | 7136m    | 0.262  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.78 | 252  | 2623m    | 0.087  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.30 | 252  | 4099     | 0.155  | ng/ul# | 81       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.58 | 276  | 2065     | 0.061  | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.58 | 278  | 585      | 0.021  | ng/ul# | 1        |
| 26) Benzo(a,h,i)perylene    | 26.24 | 276  | 1943     | 0.062  | ng/ul# | 82       |

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

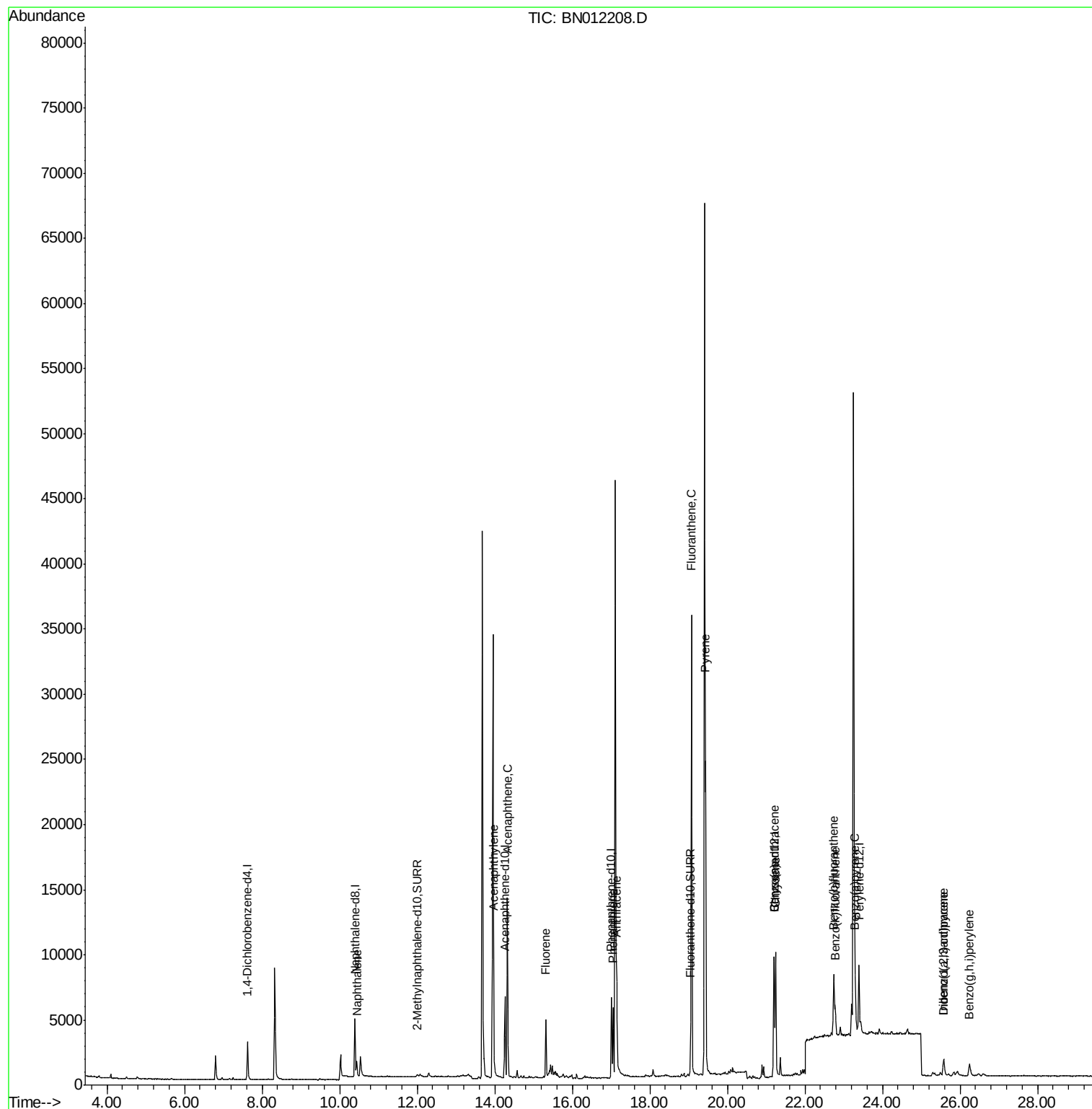
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101420\  
Data File : BN012208.D  
Acq On : 14 Oct 2020 23:19  
Operator : CG/JU  
Sample : L4166-08DL 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

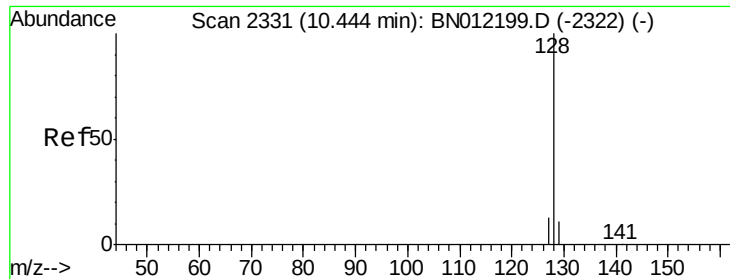
Instrument :  
BNA\_N  
ClientSampleId :  
C0AC9DL

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Quant Time: Oct 15 01:23:40 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101420.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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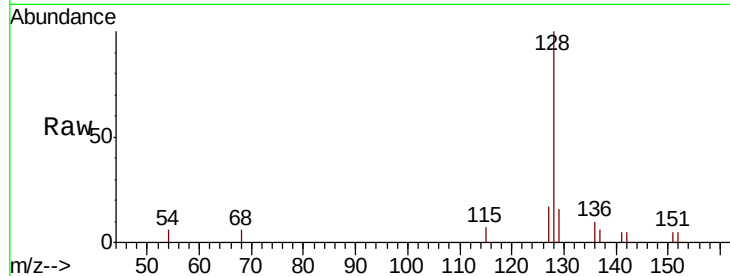
#3  
Naphthalene  
Concen: 0.090 ng/ul  
RT: 10.44 min Scan# 2331  
Delta R.T. -0.00 min  
Lab File: BN012208.D  
Acq: 14 Oct 2020 23:19

Instrument :  
BNA\_N  
ClientSampled :  
C0AC9DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 16.1  | 10.3  | 15.5# |
| 127     | 17.1  | 11.9  | 17.9  |

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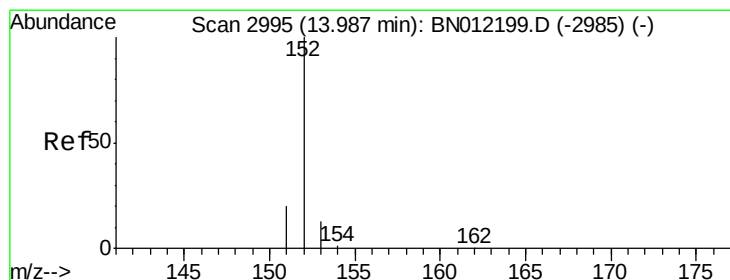
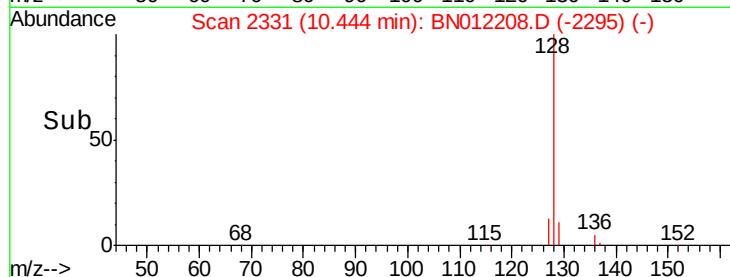
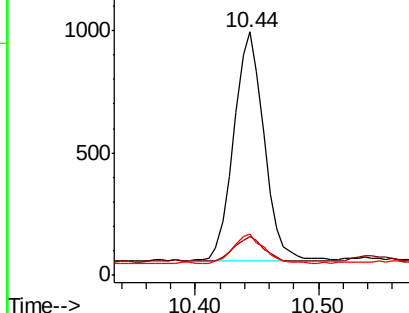


Abundance

Ion 128.00 (127.70 to 128.70): E

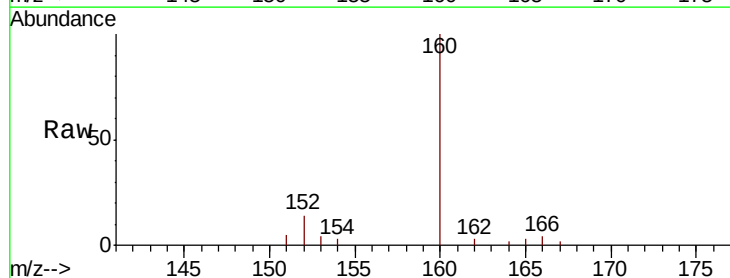
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#7  
Acenaphthylene  
Concen: 0.029 ng/ul  
RT: 13.98 min Scan# 2993  
Delta R.T. -0.01 min  
Lab File: BN012208.D  
Acq: 14 Oct 2020 23:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 34.0  | 16.7  | 25.1# |
| 153     | 30.4  | 11.8  | 17.8# |

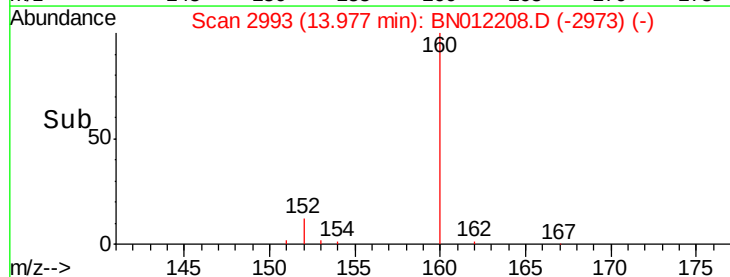
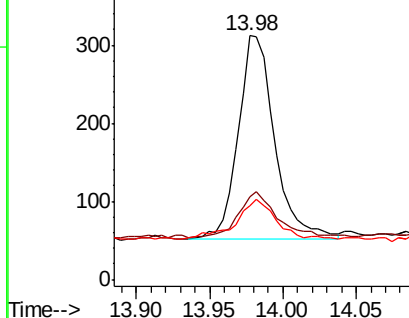


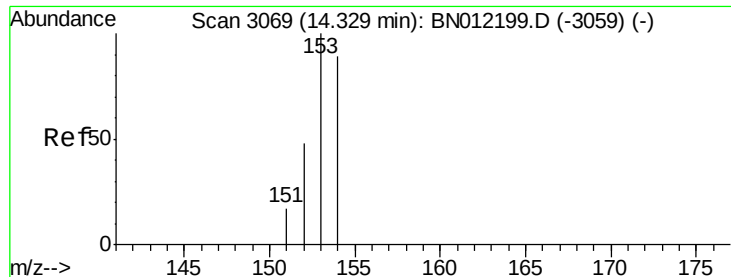
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#8

Acenaphthene

Concen: 0.605 ng/ul

RT: 14.32 min Scan# 3068

Delta R.T. -0.00 min

Lab File: BN012208.D

Acq: 14 Oct 2020 23:19

Instrument :

BNA\_N

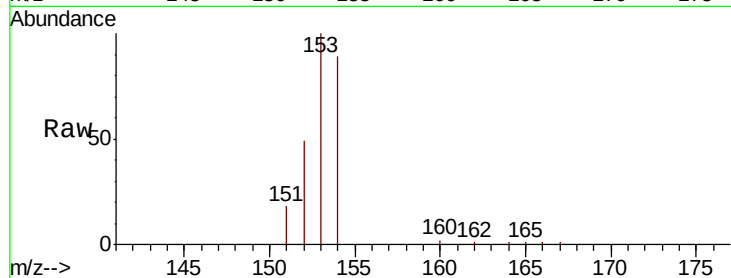
ClientSampleId :

C0AC9DL

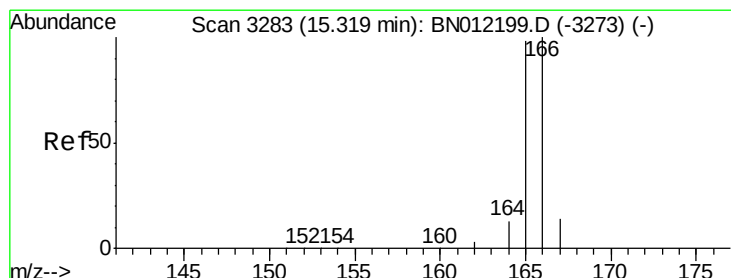
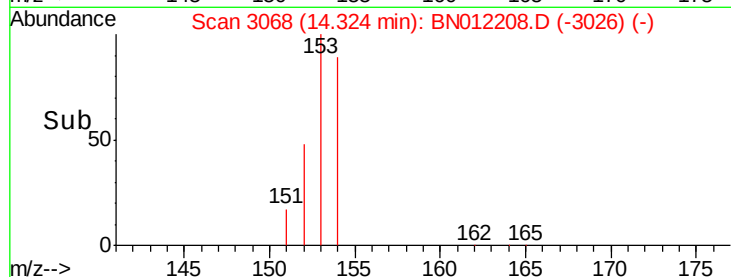
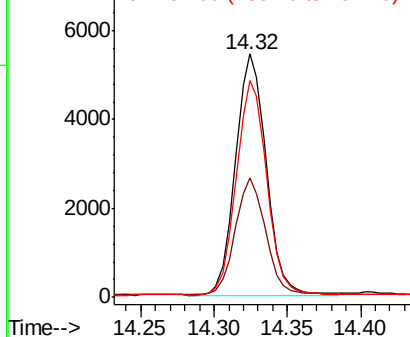
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 153   | Resp: | 7859  |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 49.0  | 38.2  | 57.2  |
| 154      | 89.0  | 71.1  | 106.7 |

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Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E



#9

Fluorene

Concen: 0.202 ng/ul

RT: 15.31 min Scan# 3282

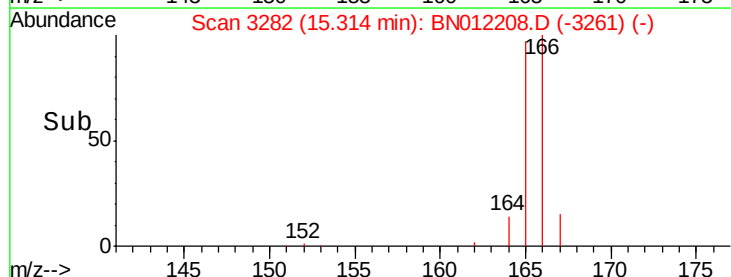
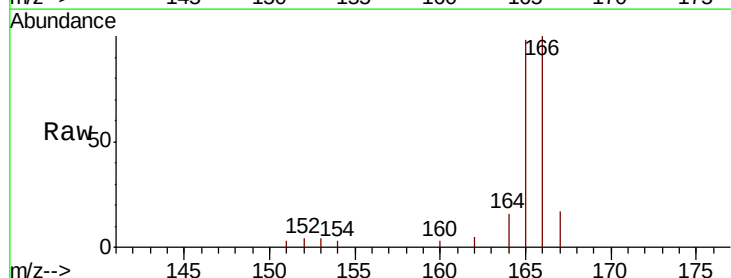
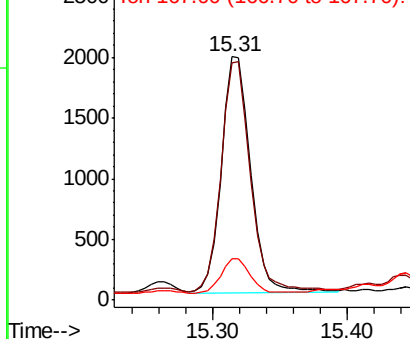
Delta R.T. -0.00 min

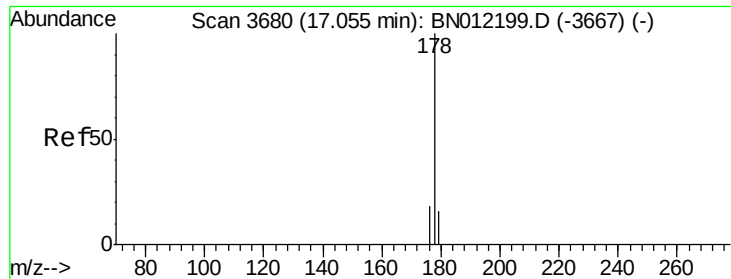
Lab File: BN012208.D

Acq: 14 Oct 2020 23:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 2918  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 97.6  | 78.6  | 118.0 |
| 167      | 17.1  | 11.9  | 17.9  |

Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





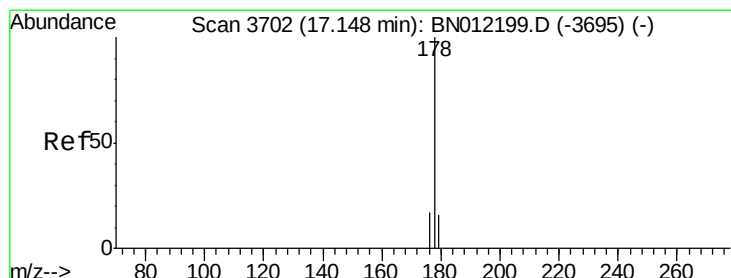
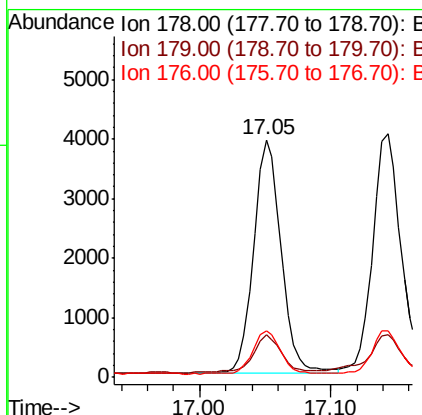
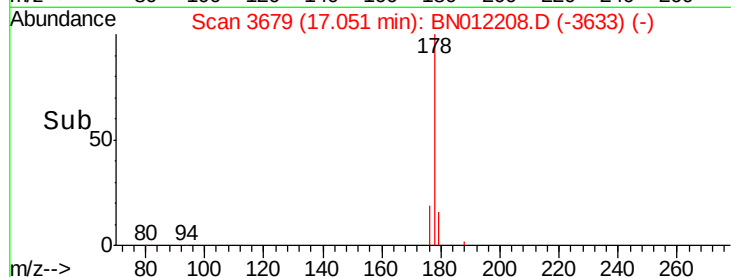
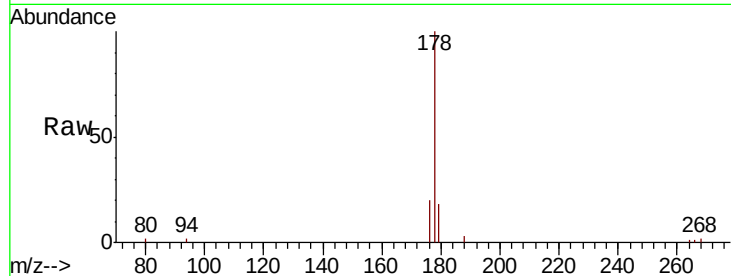
#12  
Phenanthrene  
Concen: 0.245 ng/ul  
RT: 17.05 min Scan# 3679  
Delta R.T. -0.00 min  
Lab File: BN012208.D  
Acq: 14 Oct 2020 23:19

Instrument :  
BNA\_N  
ClientSampleID :  
C0AC9DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.8  | 13.4  | 20.2  |
| 176     | 19.8  | 15.7  | 23.5  |

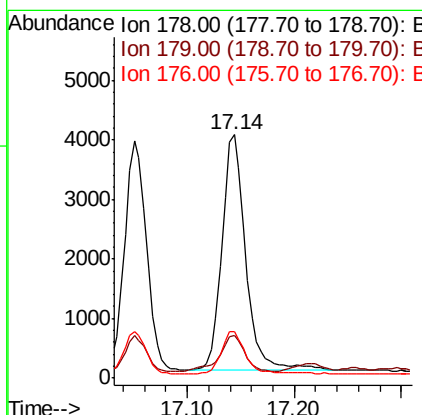
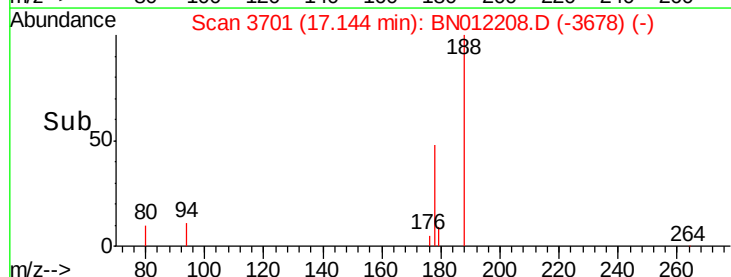
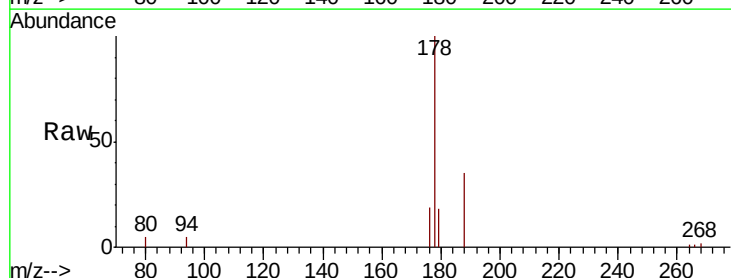
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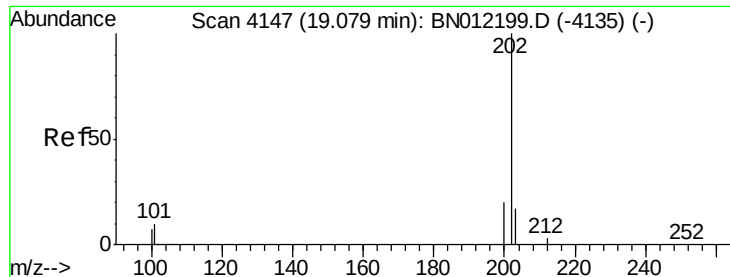
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#13  
Anthracene  
Concen: 0.303 ng/ul  
RT: 17.14 min Scan# 3701  
Delta R.T. -0.00 min  
Lab File: BN012208.D  
Acq: 14 Oct 2020 23:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.6  | 13.9  | 20.9  |
| 176     | 19.1  | 15.4  | 23.0  |





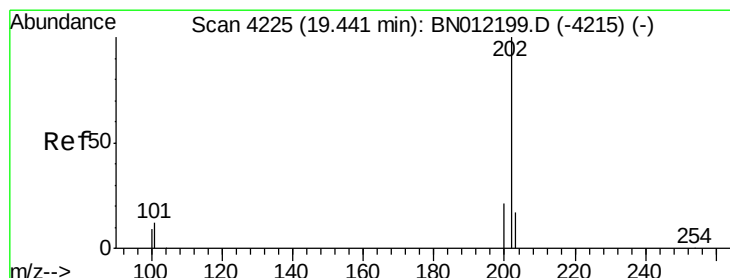
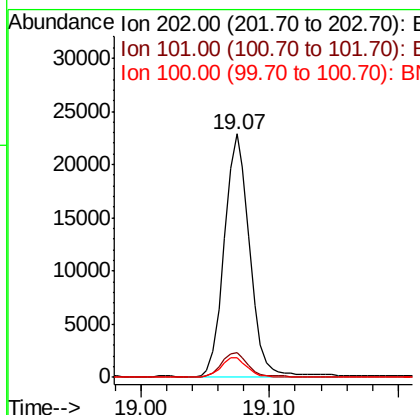
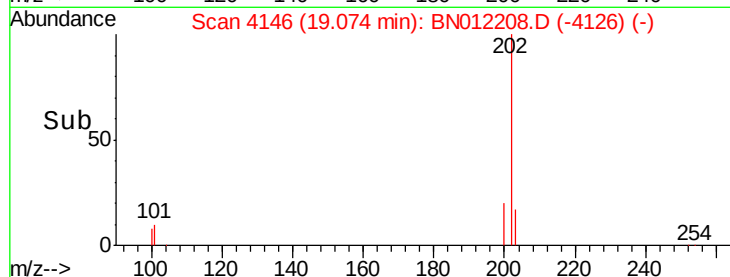
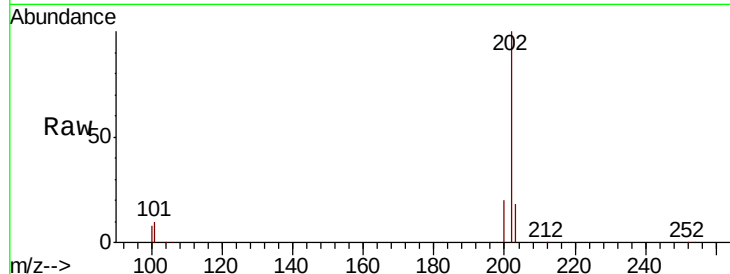
#15  
Fluoranthene  
Concen: 1.137 ng/ul  
RT: 19.07 min Scan# 4146  
Delta R.T. -0.00 min  
Lab File: BN012208.D  
Acq: 14 Oct 2020 23:19

Instrument :  
BNA\_N  
ClientSampleId :  
C0AC9DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 31209 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.4  | 0.0   | 31.0  |
| 100       | 7.8   | 0.0   | 28.7  |

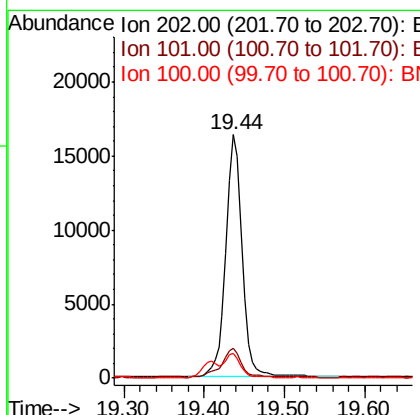
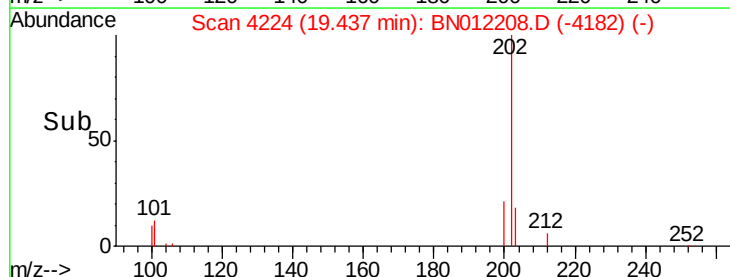
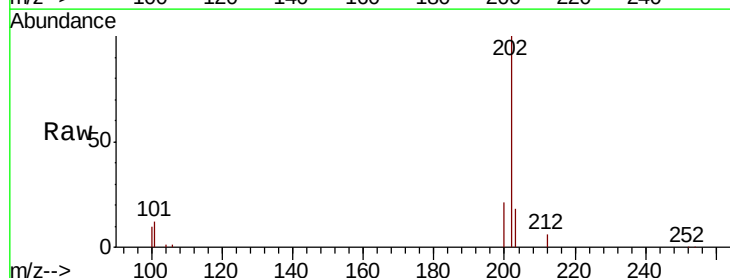
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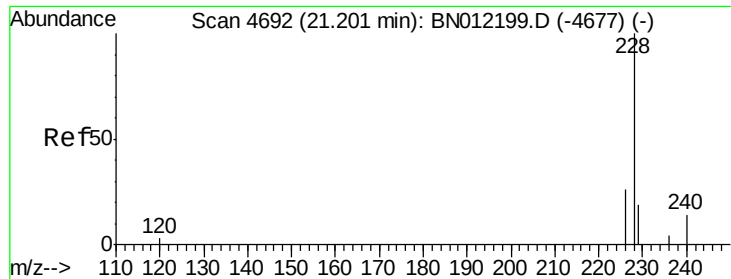
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#17  
Pyrene  
Concen: 0.794 ng/ul  
RT: 19.44 min Scan# 4224  
Delta R.T. -0.00 min  
Lab File: BN012208.D  
Acq: 14 Oct 2020 23:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 22984 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.3  | 9.9   | 14.9  |
| 100       | 10.4  | 8.0   | 12.0  |





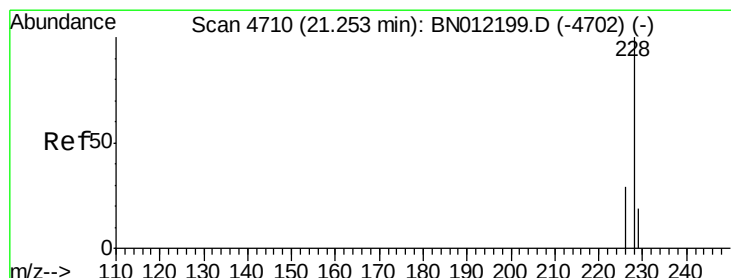
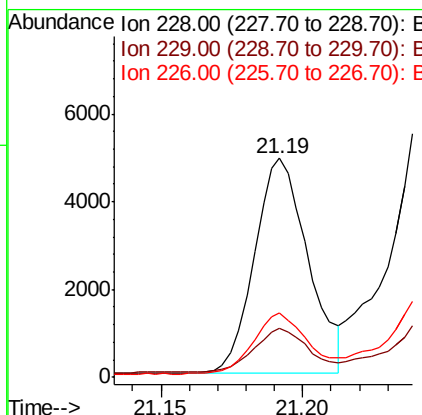
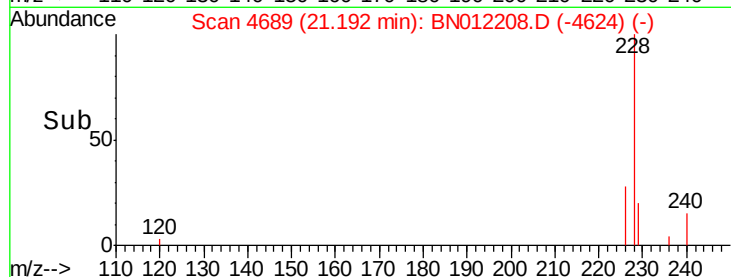
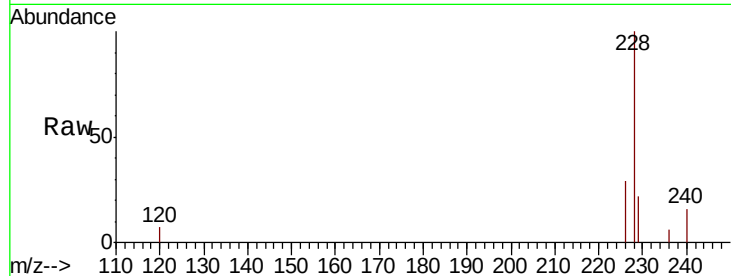
#18  
Benzo(a)anthracene  
Concen: 0.273 ng/ul  
RT: 21.19 min Scan# 4689  
Delta R.T. -0.01 min  
Lab File: BN012208.D  
Acq: 14 Oct 2020 23:19

Instrument :  
BNA\_N  
ClientSampleId :  
C0AC9DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.3  | 15.8  | 23.8  |
| 226     | 29.3  | 22.6  | 33.8  |

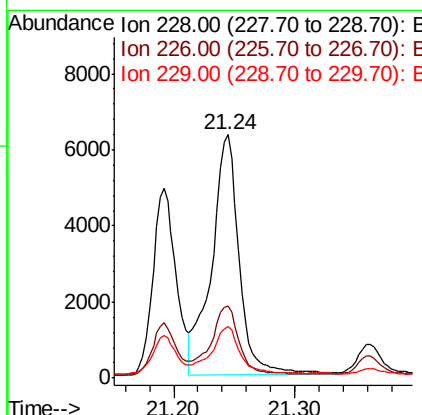
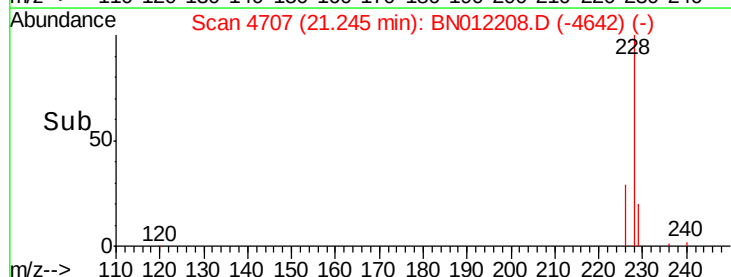
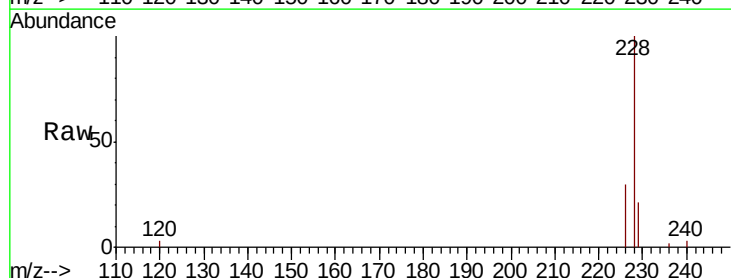
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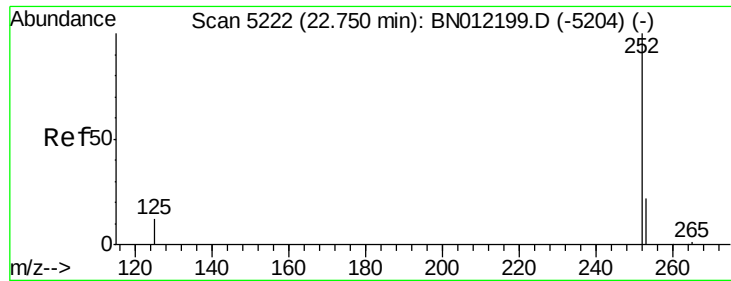
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#19  
Chrysene  
Concen: 0.344 ng/ul  
RT: 21.24 min Scan# 4707  
Delta R.T. -0.01 min  
Lab File: BN012208.D  
Acq: 14 Oct 2020 23:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.6  | 24.6  | 37.0  |
| 229     | 21.3  | 17.0  | 25.6  |





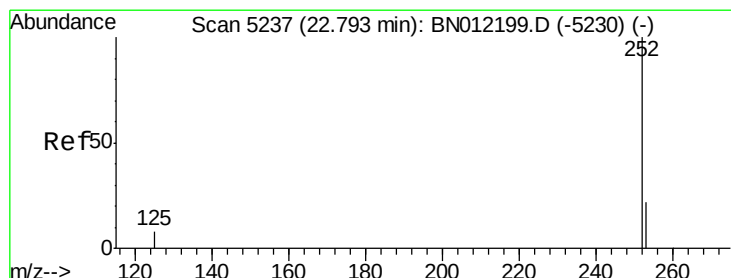
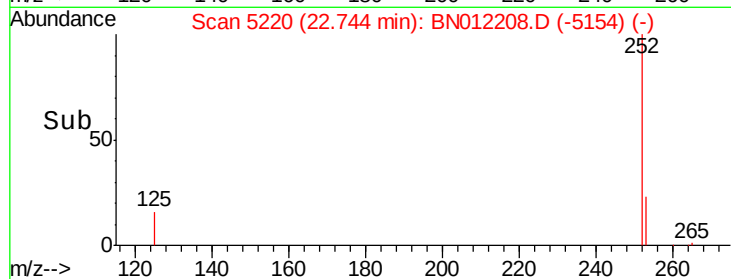
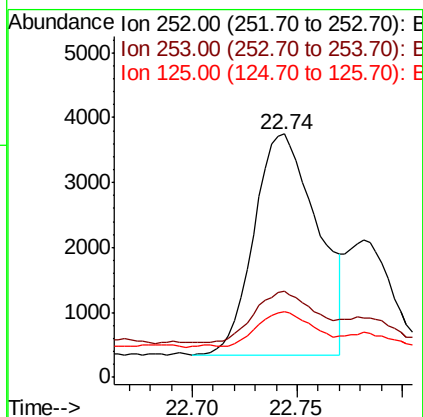
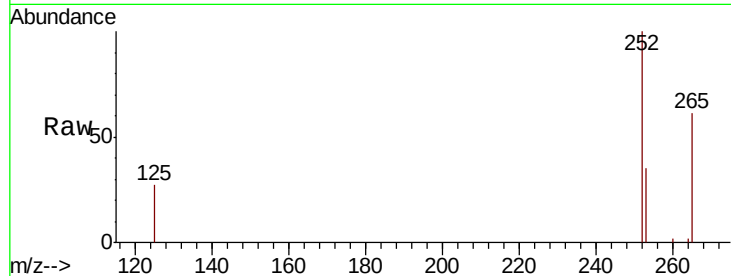
#21  
Benzo(b)fluoranthene  
Concen: 0.262 ng/ul m  
RT: 22.74 min Scan# 5220  
Delta R.T. -0.01 min  
Lab File: BN012208.D  
Acq: 14 Oct 2020 23:19

Instrument :  
BNA\_N  
ClientSampleId :  
C0AC9DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 35.4  | 0.0   | 61.6  |
| 125     | 27.0  | 0.0   | 36.8  |

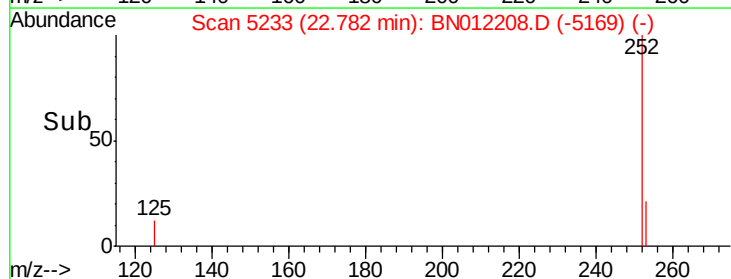
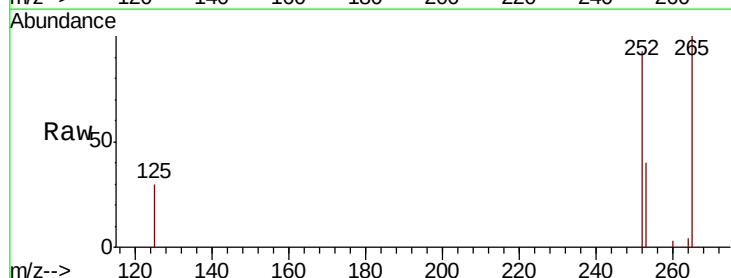
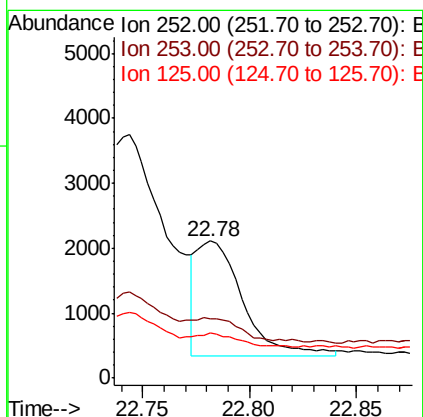
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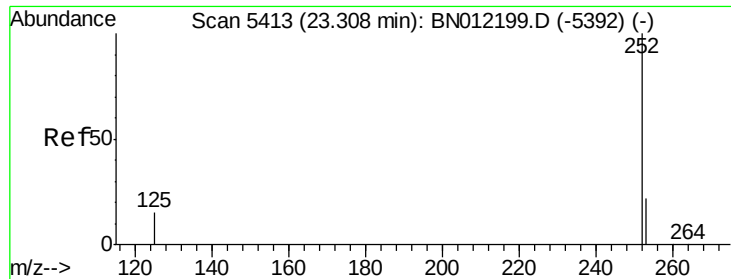


#22  
Benzo(k)fluoranthene  
Concen: 0.087 ng/ul m  
RT: 22.78 min Scan# 5233  
Delta R.T. -0.01 min  
Lab File: BN012208.D  
Acq: 14 Oct 2020 23:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 43.1  | 24.4  | 36.6# |
| 125     | 32.8  | 12.9  | 19.3# |







#23

Benzo(a)pyrene

Concen: 0.155 ng/ul

RT: 23.30 min Scan# 5410

Delta R.T. -0.01 min

Lab File: BN012208.D

Acq: 14 Oct 2020 23:19

Instrument :

BNA\_N

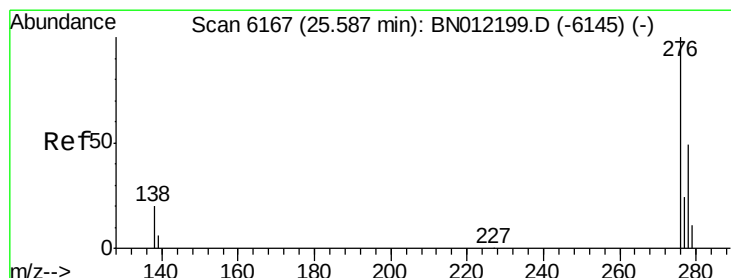
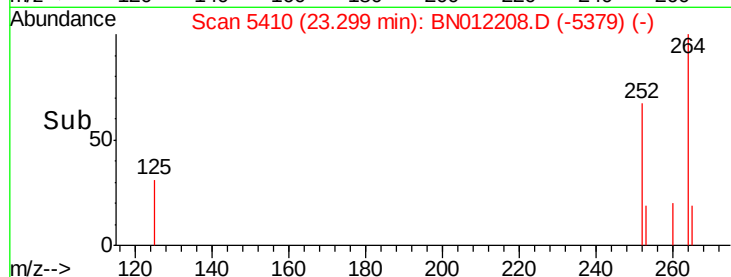
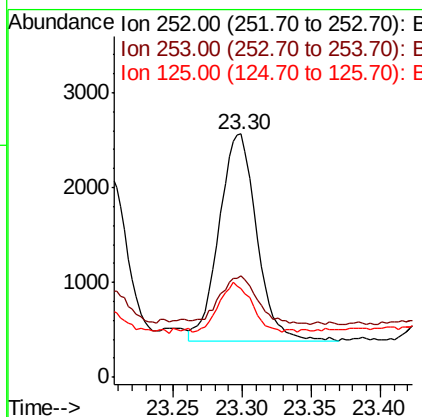
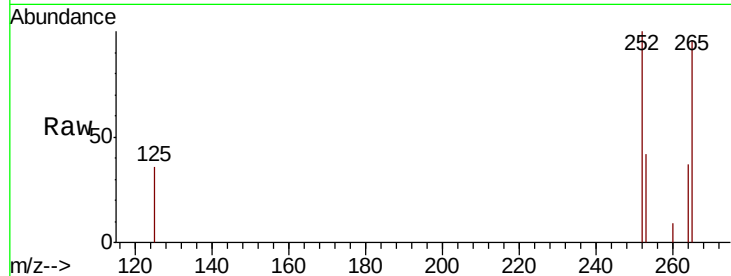
ClientSampleId :

C0AC9DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 4099  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 41.5  | 27.0  | 40.4# |
| 125       | 36.4  | 18.8  | 28.2# |

Manual Integrations  
APPROVED

mohammad  
10/15/2020 8:21:11 AM



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.061 ng/ul

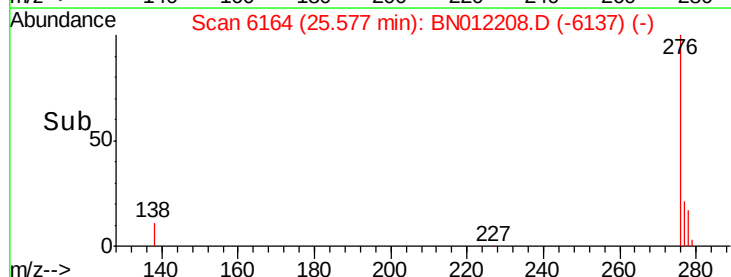
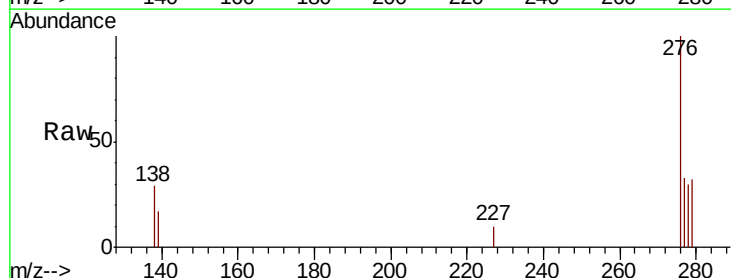
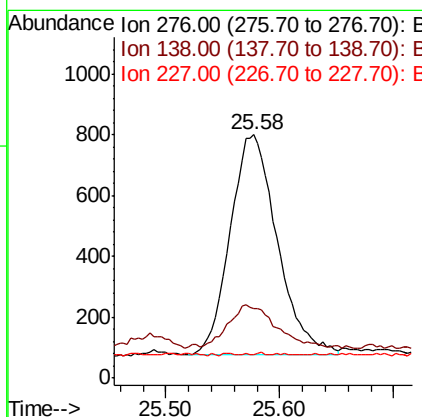
RT: 25.58 min Scan# 6164

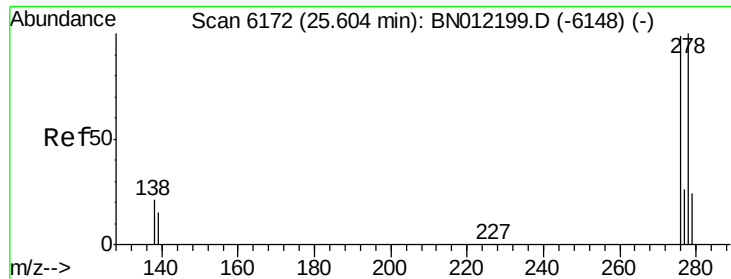
Delta R.T. -0.01 min

Lab File: BN012208.D

Acq: 14 Oct 2020 23:19

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 276   | Resp: | 2065 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 19.3  | 0.0   | 0.0# |
| 227       | 0.2   | 0.0   | 0.0# |





#25

Dibenzo(a,h)anthracene

Concen: 0.021 ng/ul

RT: 25.58 min Scan# 6165

Delta R.T. -0.02 min

Lab File: BN012208.D

Acq: 14 Oct 2020 23:19

Instrument :

BNA\_N

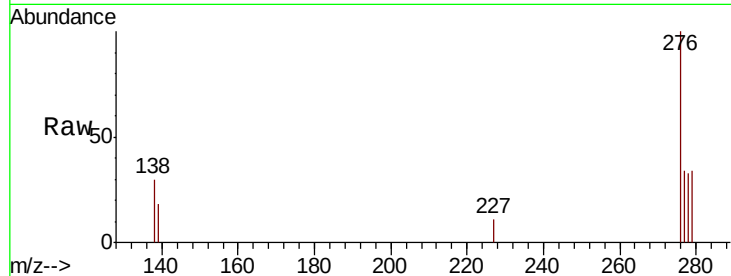
ClientSampleId :

C0AC9DL

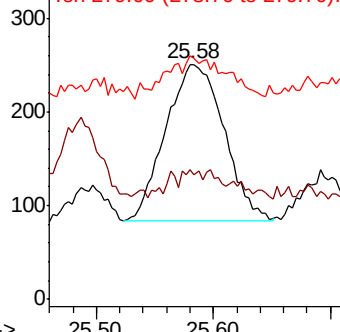
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 278   | Resp: | 585   |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 55.4  | 15.7  | 23.5# |
| 279       | 103.6 | 26.0  | 39.0# |

Manual Integrations  
APPROVED

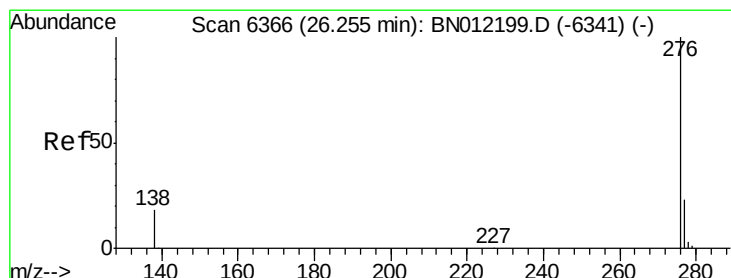
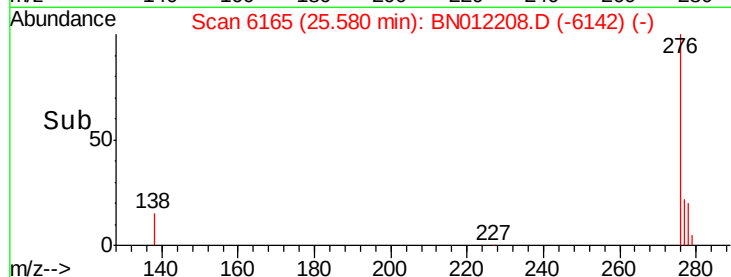
mohammad  
10/15/2020 8:21:11 AM



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



Time-->



#26

Benzo(g,h,i)perylene

Concen: 0.062 ng/ul

RT: 26.24 min Scan# 6363

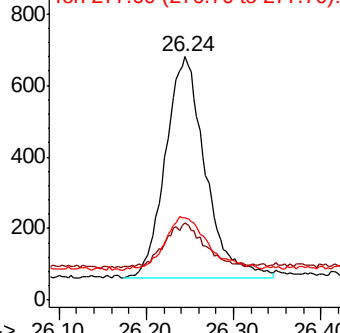
Delta R.T. -0.01 min

Lab File: BN012208.D

Acq: 14 Oct 2020 23:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 1943  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 31.8  | 17.1  | 25.7# |
| 277       | 34.0  | 21.1  | 31.7# |

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



Time-->

