

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN121319\  
 Data File : BN008976.D  
 Acq On : 13 Dec 2019 20:47  
 Operator : JU  
 Sample : K6089-07DL 2X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0BQ5DL

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Quant Time: Dec 13 23:32:44 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN111519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 13 23:22:26 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.55  | 152  | 2499     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.31 | 136  | 11166    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.18 | 164  | 7294     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.92 | 188  | 16472    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.13 | 240  | 13867    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.28 | 264  | 12733    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.90 | 152  | 7566     | 0.41   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.96 | 212  | 23925    | 0.48   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.36 | 128  | 4059     | 0.121  | ng/ul  | 96       |
| 5) 2-Methylnaphthalene      | 11.98 | 142  | 3721     | 0.158  | ng/ul  | 98       |
| 7) Acenaphthylene           | 13.89 | 152  | 4006     | 0.099  | ng/ul# | 93       |
| 8) Acenaphthene             | 14.24 | 153  | 702      | 0.023  | ng/ul# | 92       |
| 9) Fluorene                 | 15.24 | 166  | 1813     | 0.052  | ng/ul# | 78       |
| 12) Phenanthrene            | 16.97 | 178  | 53234    | 0.958  | ng/ul  | 99       |
| 13) Anthracene              | 17.06 | 178  | 5729     | 0.109  | ng/ul# | 96       |
| 15) Fluoranthene            | 18.99 | 202  | 93618    | 1.372  | ng/ul  | 99       |
| 17) Pyrene                  | 19.35 | 202  | 75849    | 1.363  | ng/ul  | 100      |
| 18) Benzo(a)anthracene      | 21.12 | 228  | 32799    | 0.588  | ng/ul# | 93       |
| 19) Chrysene                | 21.17 | 228  | 49643    | 0.906  | ng/ul# | 95       |
| 21) Benzo(b)fluoranthene    | 22.64 | 252  | 46956m   | 0.894  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.68 | 252  | 14897m   | 0.286  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.19 | 252  | 26364    | 0.535  | ng/ul  | 98       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.38 | 276  | 16091    | 0.279  | ng/ul# | 92       |
| 25) Dibenzo(a,h)anthracene  | 25.39 | 278  | 4395     | 0.094  | ng/ul# | 64       |
| 26) Benzo(a,h,i)perylene    | 26.02 | 276  | 15866    | 0.329  | ng/ul  | 98       |

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

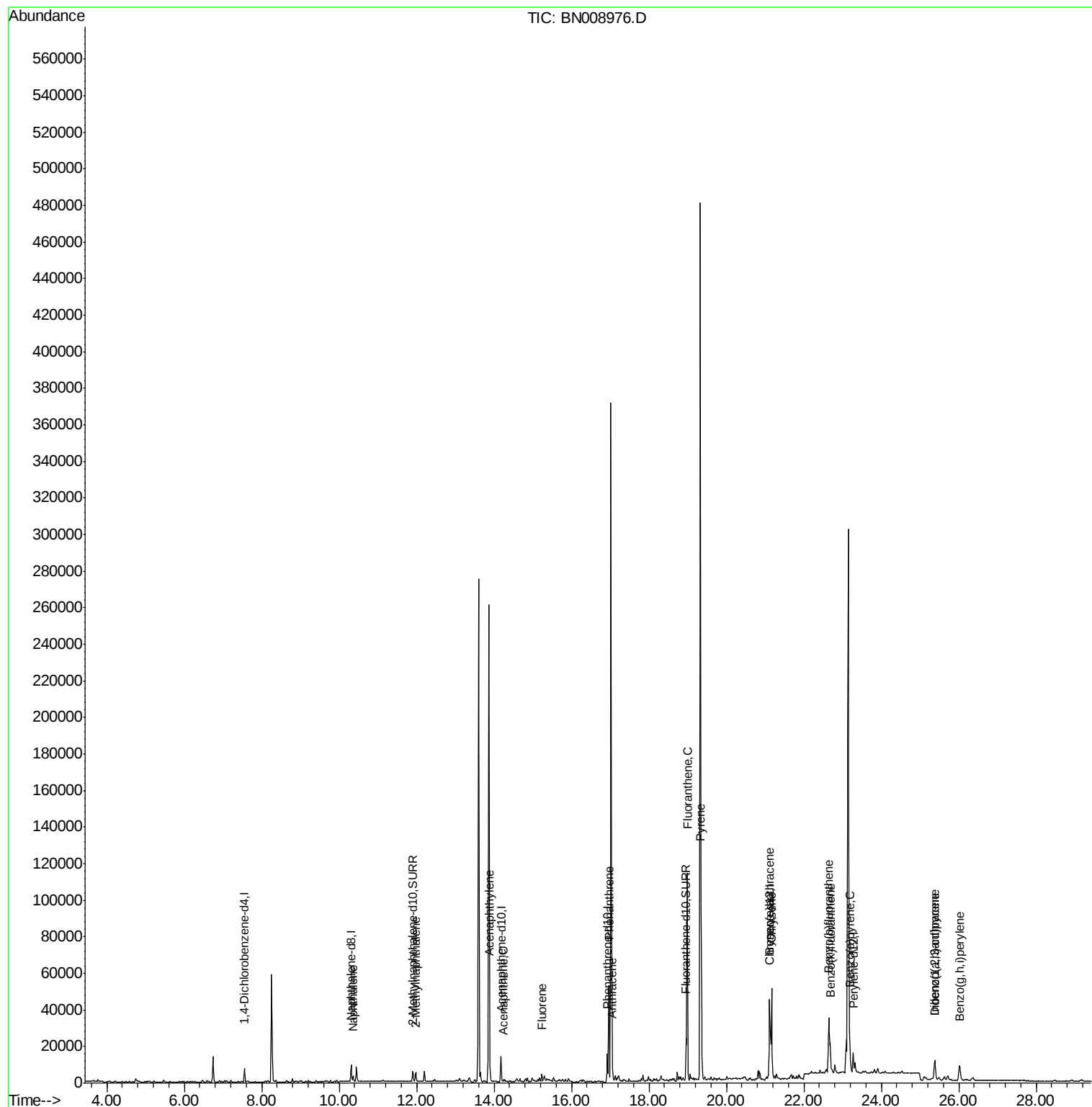
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN121319\  
Data File : BN008976.D  
Acq On : 13 Dec 2019 20:47  
Operator : JU  
Sample : K6089-07DL 2X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

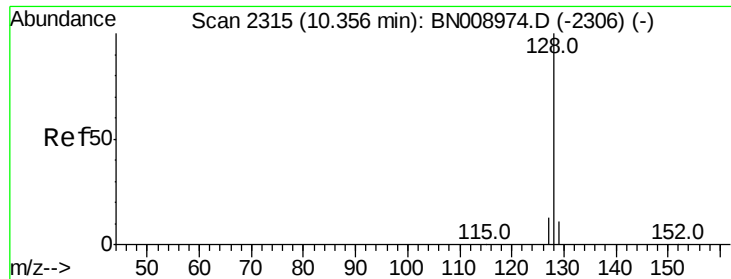
Instrument :  
BNA\_N  
ClientSampleId :  
C0BQ5DL

Quant Time: Dec 13 23:32:44 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN111519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 13 23:22:26 2019  
Response via : Initial Calibration

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#3

Naphthalene

Concen: 0.121 ng/ul

RT: 10.36 min Scan# 2315

Delta R.T. 0.00 min

Lab File: BN008976.D

Acq: 13 Dec 2019 20:47

Instrument :

BNA\_N

ClientSampleId :

C0BQ5DL

Tot Ion:128 Resp: 4059

Ion Ratio Lower Upper

128 100

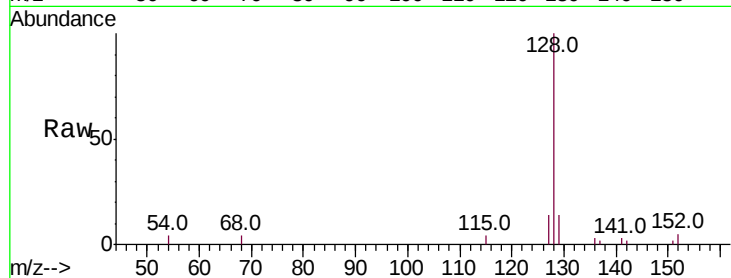
129 13.6 9.1 13.7

127 14.4 10.7 16.1

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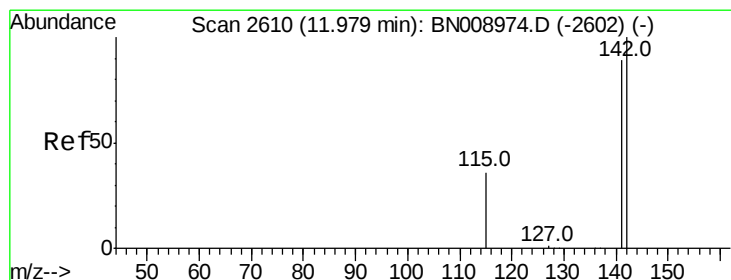
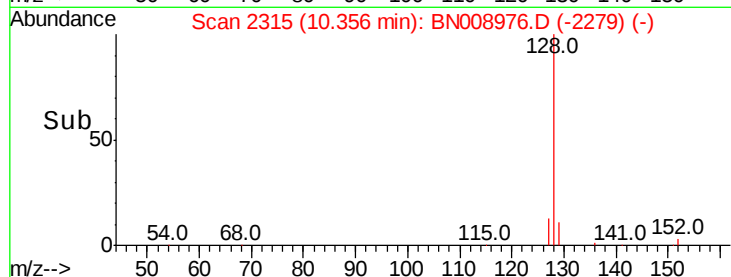
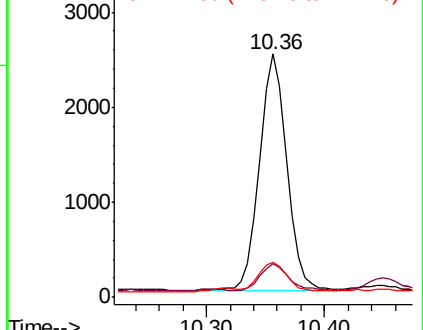
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.158 ng/ul

RT: 11.98 min Scan# 2610

Delta R.T. 0.00 min

Lab File: BN008976.D

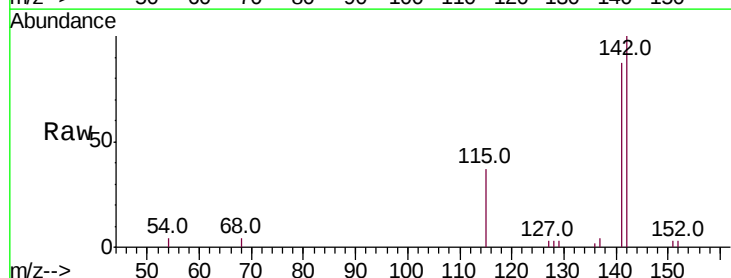
Acq: 13 Dec 2019 20:47

Tgt Ion:142 Resp: 3721

Ion Ratio Lower Upper

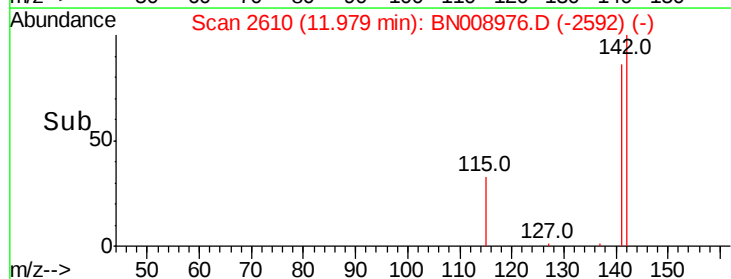
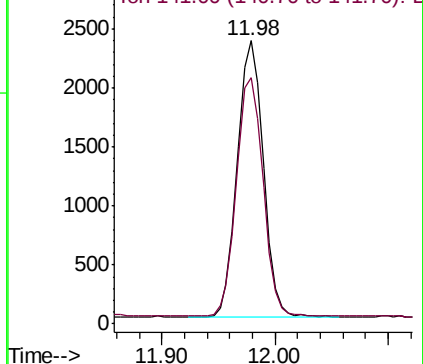
142 100

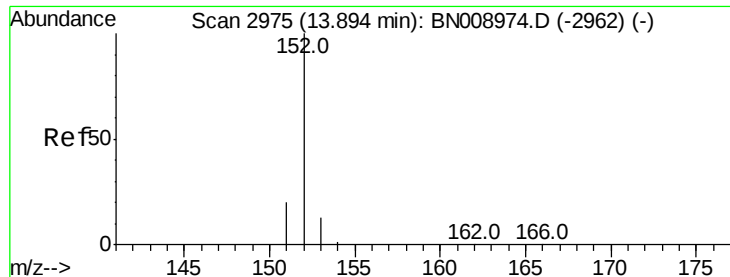
141 89.4 70.1 105.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.099 ng/ul

RT: 13.89 min Scan# 2975

Delta R.T. 0.00 min

Lab File: BN008976.D

Acq: 13 Dec 2019 20:47

Instrument :

BNA\_N

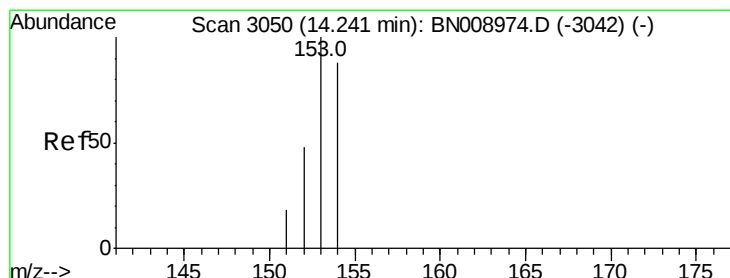
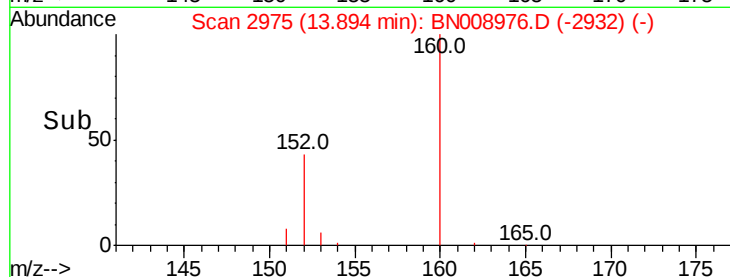
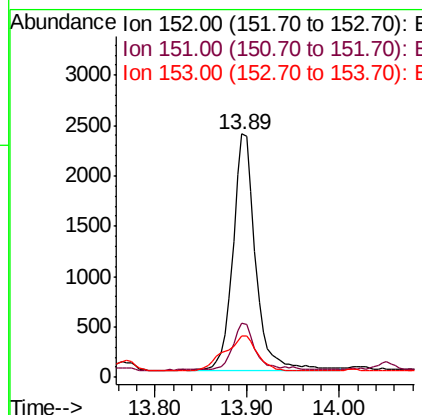
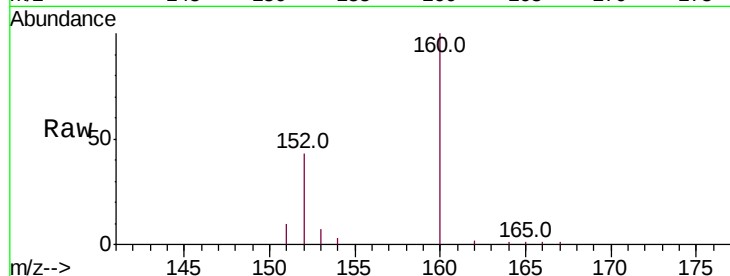
ClientSampleId :

C0BQ5DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 4006  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 22.1  | 15.8  | 23.6  |
| 153       | 17.0  | 10.6  | 15.8# |

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#8

Acenaphthene

Concen: 0.023 ng/ul

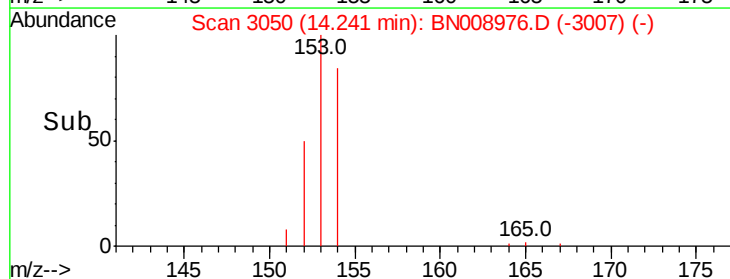
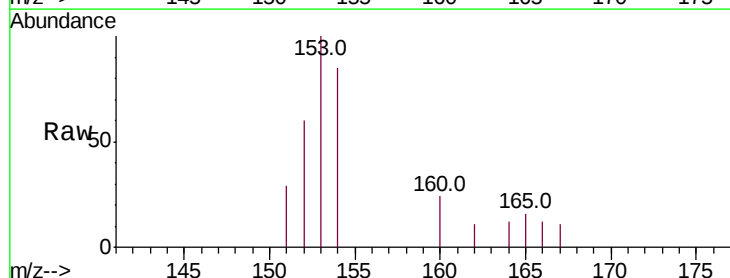
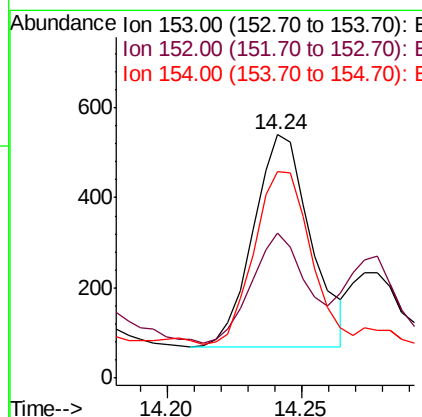
RT: 14.24 min Scan# 3050

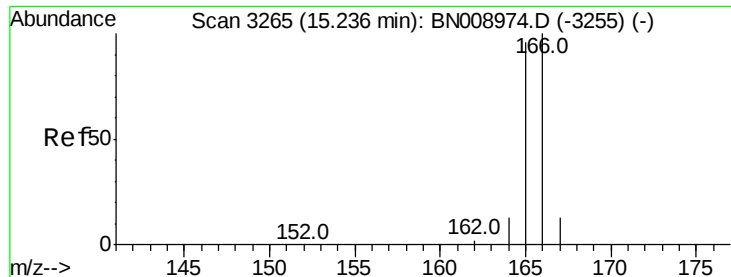
Delta R.T. 0.00 min

Lab File: BN008976.D

Acq: 13 Dec 2019 20:47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 702   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 59.8  | 38.6  | 58.0# |
| 154       | 85.0  | 70.6  | 105.8 |





#9

Fluorene

Concen: 0.052 ng/ul

RT: 15.24 min Scan# 3265

Delta R.T. 0.00 min

Lab File: BN008976.D

Acq: 13 Dec 2019 20:47

Instrument :

BNA\_N

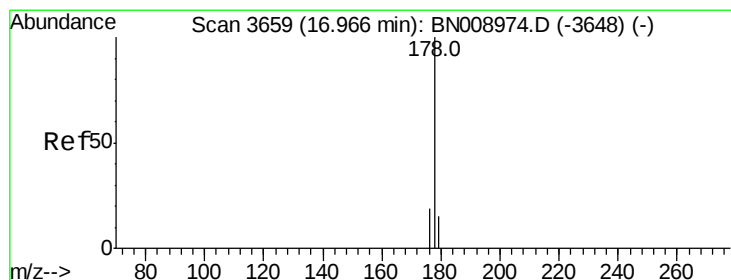
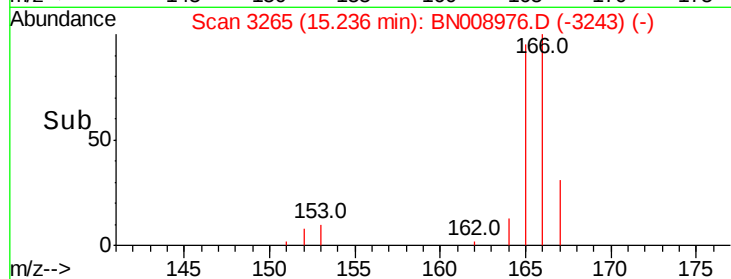
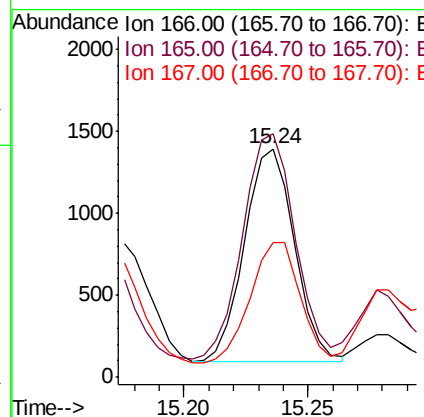
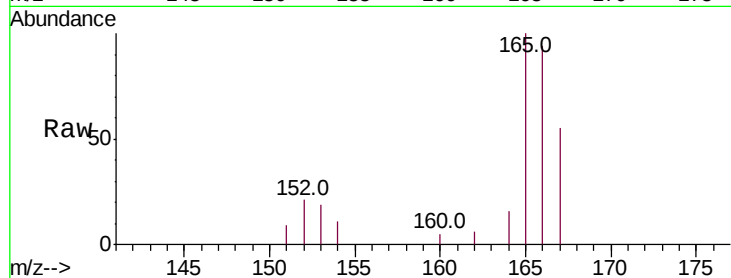
ClientSampleId :

C0BQ5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 106.7 | 77.7  | 116.5 |
| 167     | 59.0  | 11.1  | 16.7# |

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#12

Phenanthrene

Concen: 0.958 ng/ul

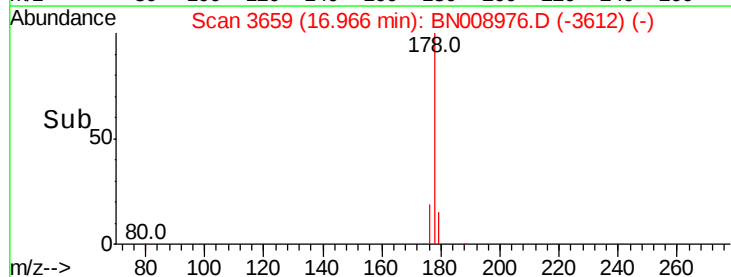
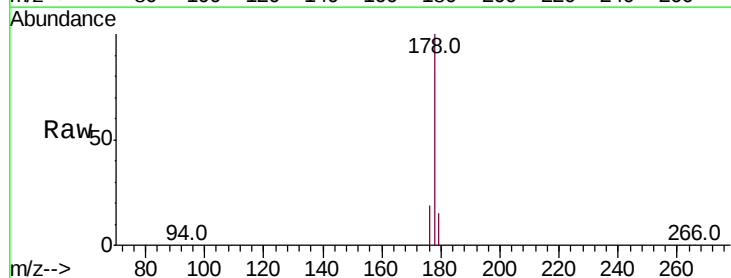
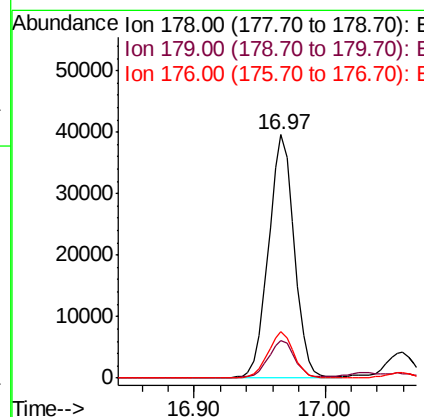
RT: 16.97 min Scan# 3659

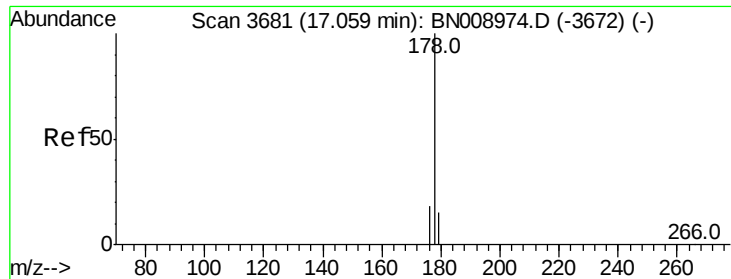
Delta R.T. 0.00 min

Lab File: BN008976.D

Acq: 13 Dec 2019 20:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.4  | 12.6  | 18.8  |
| 176     | 18.9  | 15.3  | 22.9  |





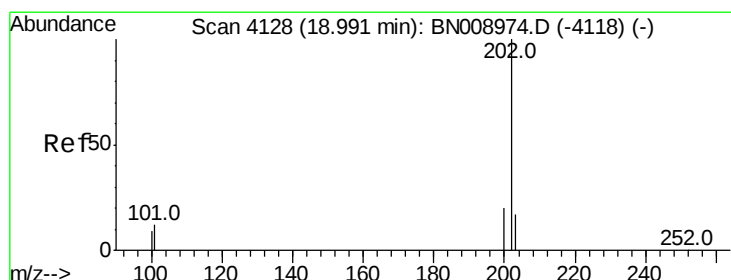
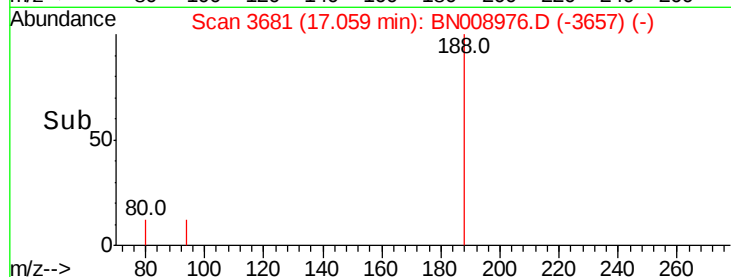
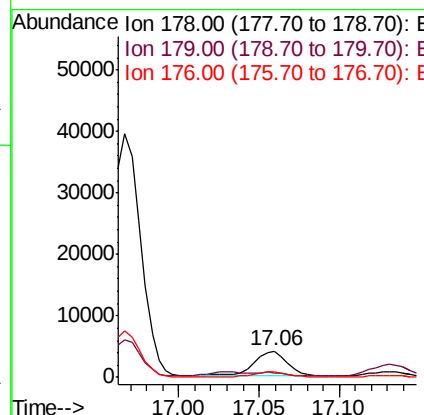
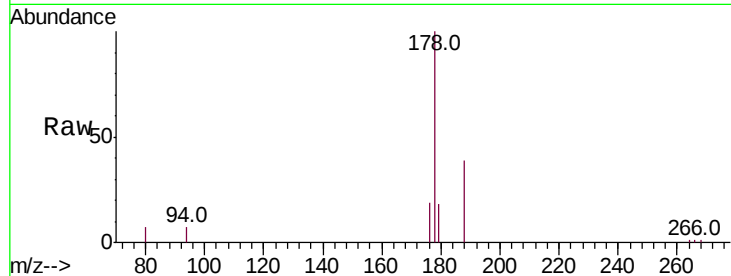
#13  
 Anthracene  
 Concen: 0.109 ng/ul  
 RT: 17.06 min Scan# 3681  
 Delta R.T. 0.00 min  
 Lab File: BN008976.D  
 Acq: 13 Dec 2019 20:47

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0BQ5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 18.5  | 12.2  | 18.4# |
| 176     | 19.0  | 14.7  | 22.1  |

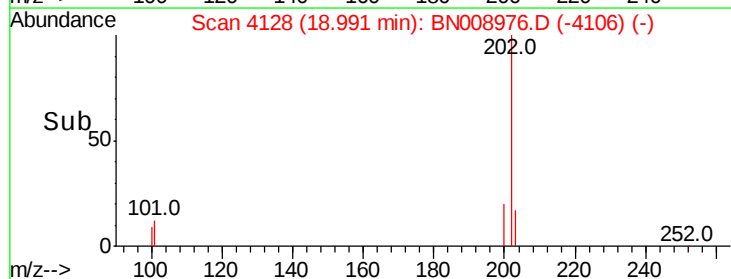
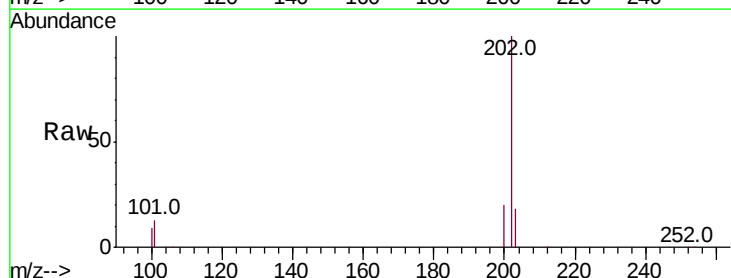
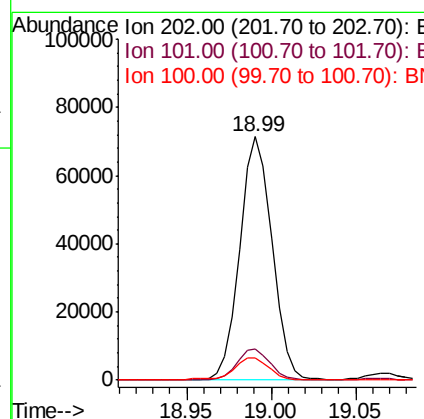
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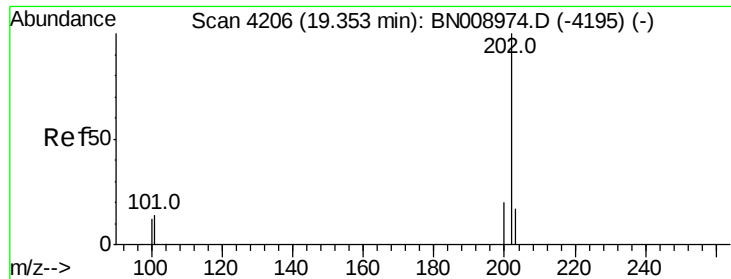
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#15  
 Fluoranthene  
 Concen: 1.372 ng/ul  
 RT: 18.99 min Scan# 4128  
 Delta R.T. 0.00 min  
 Lab File: BN008976.D  
 Acq: 13 Dec 2019 20:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.8  | 0.0   | 32.4  |
| 100     | 9.2   | 0.0   | 29.2  |





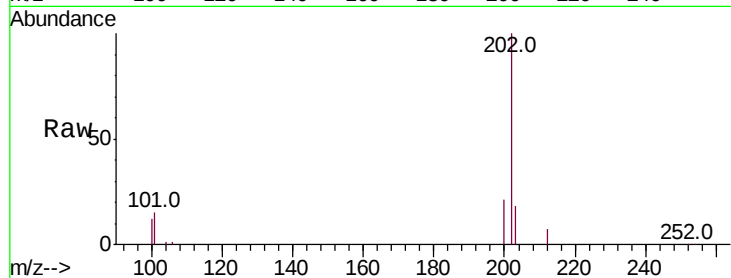
#17  
Pvrene  
Concen: 1.363 ng/ul  
RT: 19.35 min Scan# 4206  
Delta R.T. 0.00 min  
Lab File: BN008976.D  
Acq: 13 Dec 2019 20:47

Instrument :  
BNA\_N  
ClientSampleId :  
C0BQ5DL

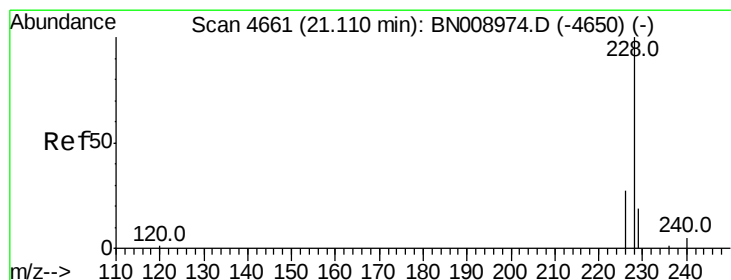
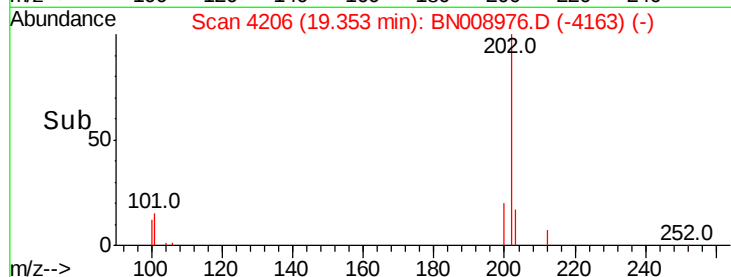
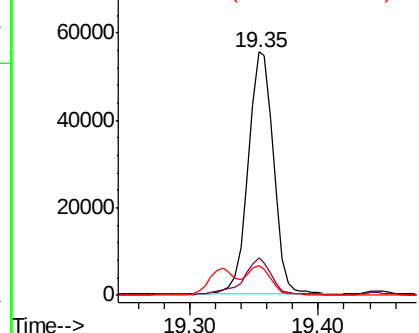
| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 75849 |       |       |
| 101     | 15.3  |       | 12.2  | 18.4  |
| 100     | 12.2  |       | 9.5   | 14.3  |

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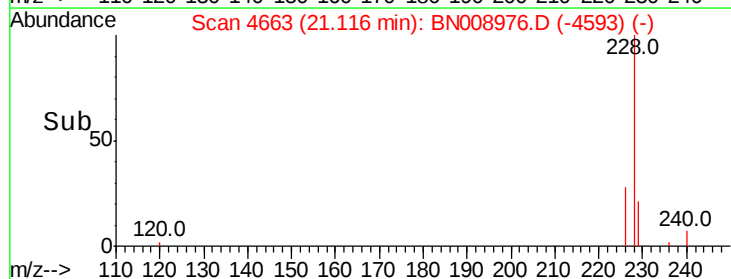
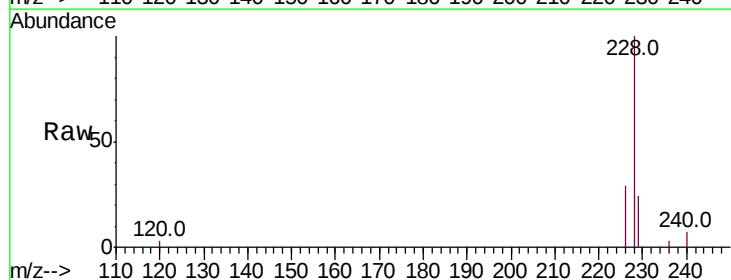
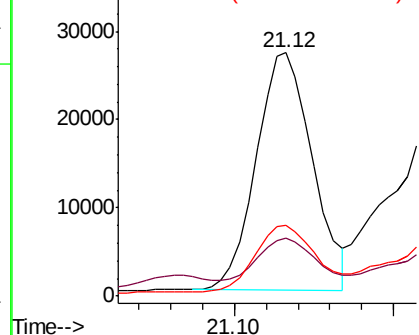
Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

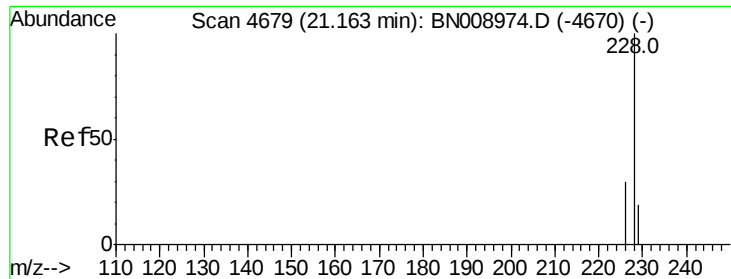


#18  
Benzo(a)anthracene  
Concen: 0.588 ng/ul  
RT: 21.12 min Scan# 4663  
Delta R.T. 0.01 min  
Lab File: BN008976.D  
Acq: 13 Dec 2019 20:47

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 32799 |       |       |
| 229     | 23.8  |       | 15.7  | 23.5# |
| 226     | 29.3  |       | 21.5  | 32.3  |

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: 0.906 ng/ul

RT: 21.17 min Scan# 4681

Delta R.T. 0.01 min

Lab File: BN008976.D

Acq: 13 Dec 2019 20:47

Instrument :

BNA\_N

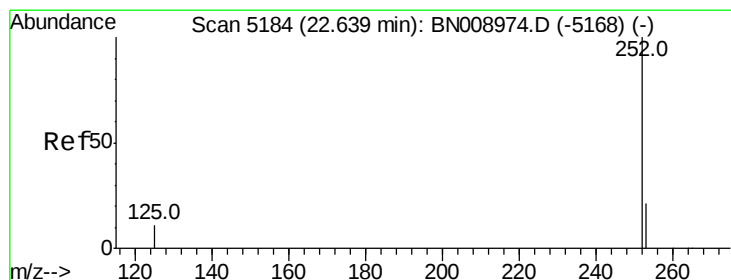
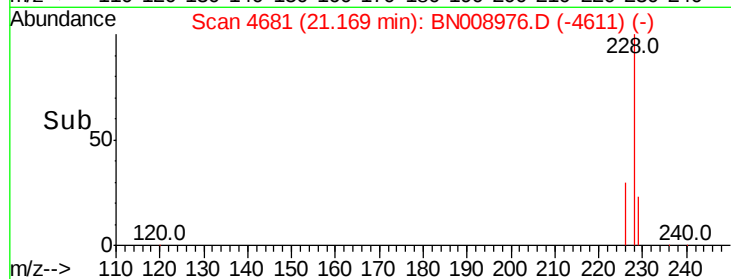
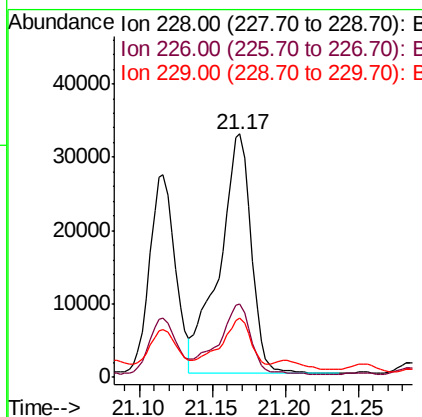
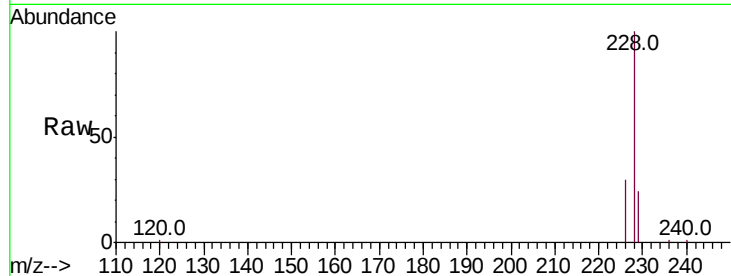
ClientSampleId :

C0BQ5DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 49643 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.2  | 23.8  | 35.6  |
| 229       | 24.2  | 15.6  | 23.4  |

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#21

Benzo(b)fluoranthene

Concen: 0.894 ng/ul m

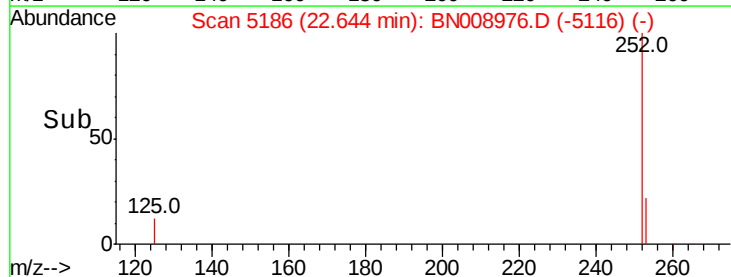
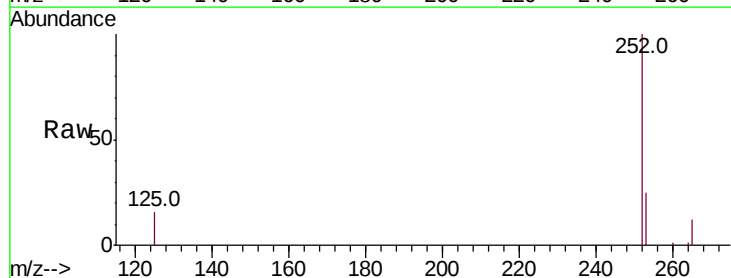
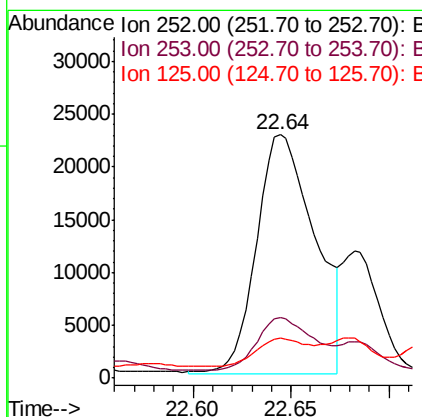
RT: 22.64 min Scan# 5186

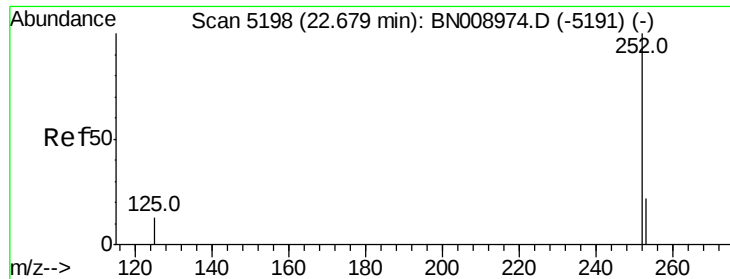
Delta R.T. 0.01 min

Lab File: BN008976.D

Acq: 13 Dec 2019 20:47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 46956 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.7  | 0.0   | 48.6  |
| 125       | 16.3  | 0.0   | 31.6  |





#22

Benzo(k)fluoranthene

Concen: 0.286 ng/ul m

RT: 22.68 min Scan# 5199

Delta R.T. 0.00 min

Lab File: BN008976.D

Acq: 13 Dec 2019 20:47

Instrument :

BNA\_N

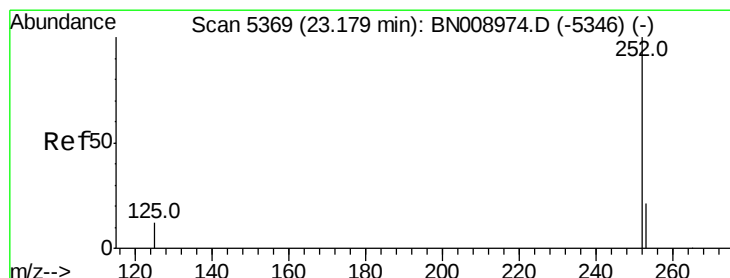
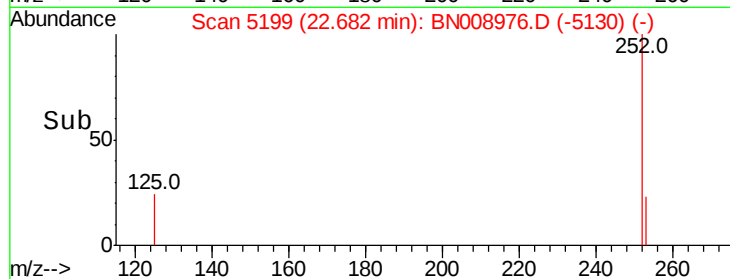
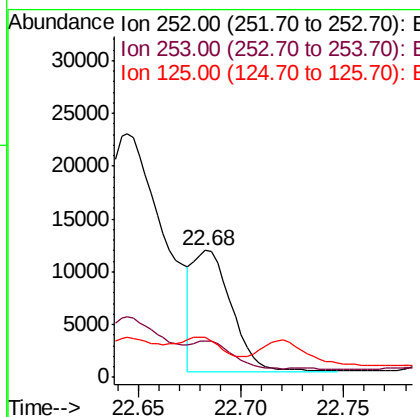
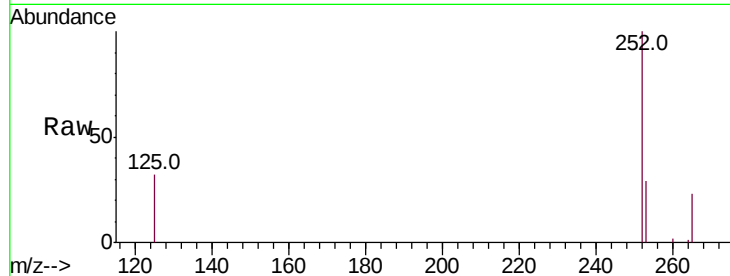
ClientSampleId :

C0BQ5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.8  | 19.6  | 29.4  |
| 125     | 31.6  | 13.8  | 20.6  |

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#23

Benzo(a)pyrene

Concen: 0.535 ng/ul

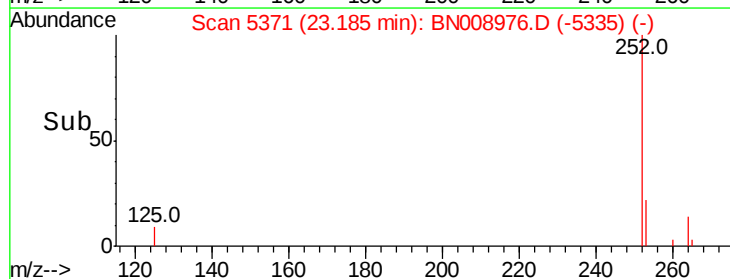
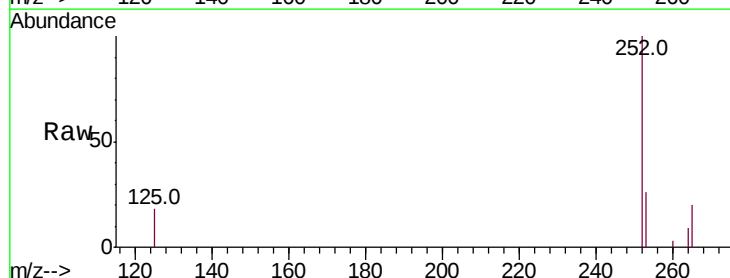
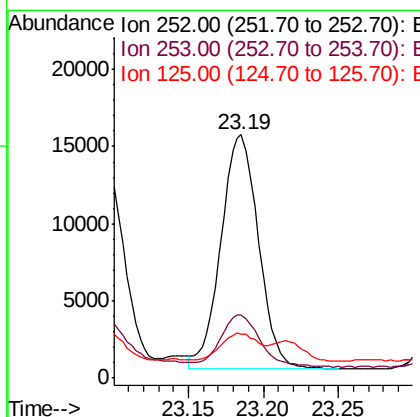
RT: 23.19 min Scan# 5371

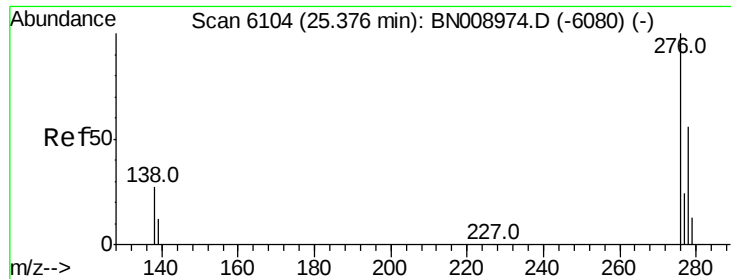
Delta R.T. 0.01 min

Lab File: BN008976.D

Acq: 13 Dec 2019 20:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.2  | 19.9  | 29.9  |
| 125     | 18.2  | 14.6  | 22.0  |





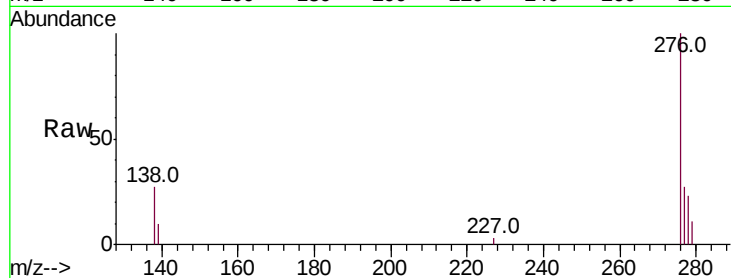
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.279 ng/ul  
 RT: 25.38 min Scan# 6105  
 Delta R.T. 0.00 min  
 Lab File: BN008976.D  
 Acq: 13 Dec 2019 20:47

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0BQ5DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.2  | 23.8  | 35.6  |
| 227     | 0.0   | 0.2   | 0.2   |

Manual Integrations  
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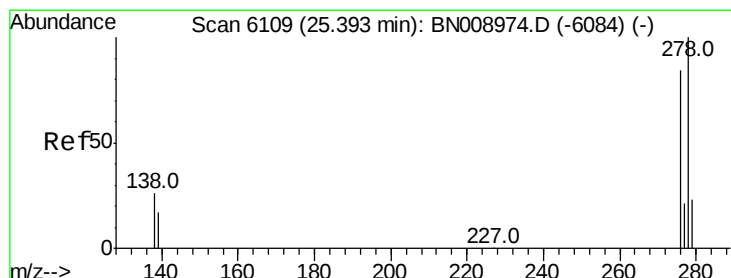
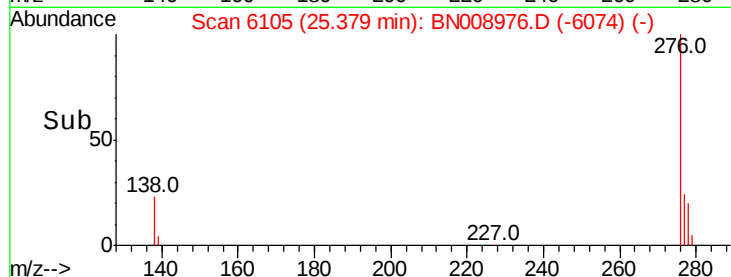
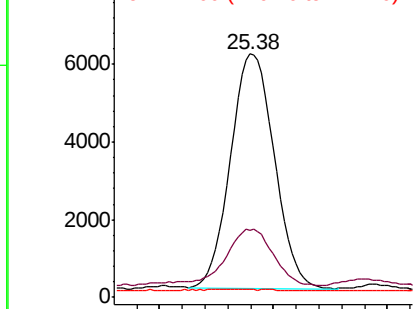


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.094 ng/ul  
 RT: 25.39 min Scan# 6108  
 Delta R.T. -0.00 min  
 Lab File: BN008976.D  
 Acq: 13 Dec 2019 20:47

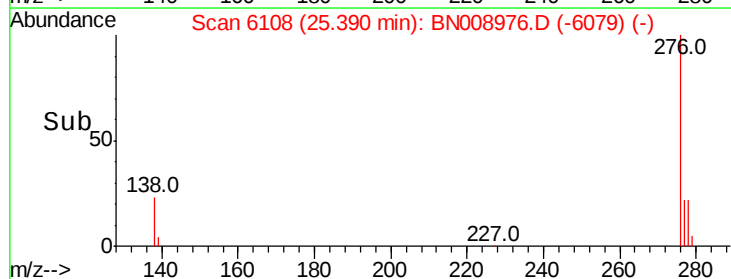
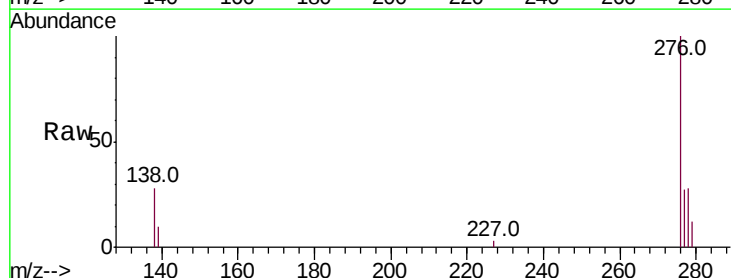
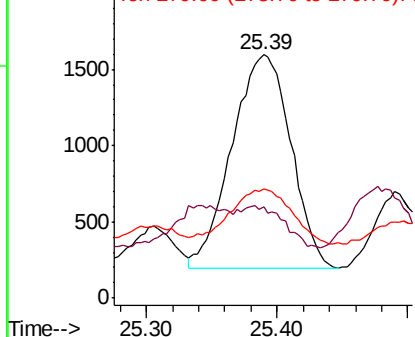
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 37.6  | 17.4  | 26.0  |
| 279     | 44.7  | 20.5  | 30.7  |

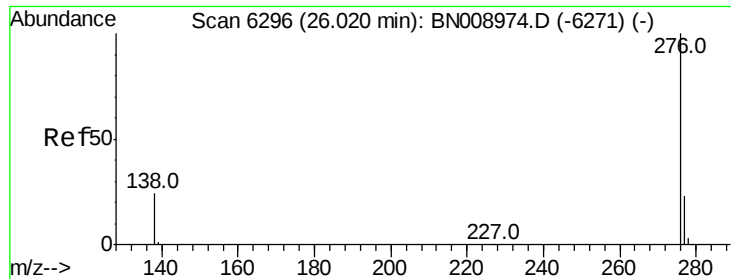
Abundance

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: 0.329 ng/ul

RT: 26.02 min Scan# 6296

Delta R.T. 0.00 min

Lab File: BN008976.D

Acq: 13 Dec 2019 20:47

Instrument :

BNA\_N

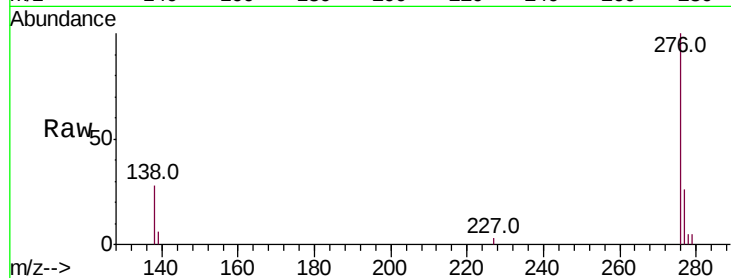
ClientSampleId :

C0BQ5DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 15866 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 28.4  | 21.9  | 32.9  |
| 277       | 26.3  | 19.9  | 29.9  |

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

