

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120619\  
 Data File : BN008869.D  
 Acq On : 06 Dec 2019 20:49  
 Operator : JU  
 Sample : K6007-02DL 10X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0BL0DL

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Quant Time: Dec 06 23:20:35 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 06 12:03:45 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.57  | 152  | 3512     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.32 | 136  | 15596    | 0.40  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.19 | 164  | 10388    | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.94 | 188  | 23034    | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.14 | 240  | 20750    | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.29 | 264  | 22417    | 0.40  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.92 | 152  | 287      | 0.01  | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.97 | 212  | 930      | 0.01  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       |        |          |
| 3) Naphthalene              | 10.37 | 128  | 1202     | 0.026 | ng/ul# | 84       |
| 7) Acenaphthylene           | 13.91 | 152  | 1569     | 0.027 | ng/ul# | 90       |
| 12) Phenanthrene            | 16.98 | 178  | 19844    | 0.255 | ng/ul  | 100      |
| 13) Anthracene              | 17.07 | 178  | 2821     | 0.038 | ng/ul# | 95       |
| 15) Fluoranthene            | 19.00 | 202  | 69577    | 0.729 | ng/ul  | 98       |
| 17) Pyrene                  | 19.37 | 202  | 59795    | 0.718 | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.12 | 228  | 25827    | 0.310 | ng/ul  | 98       |
| 19) Chrysene                | 21.17 | 228  | 33968    | 0.414 | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.65 | 252  | 49710m   | 0.538 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.69 | 252  | 17435m   | 0.190 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.20 | 252  | 30520    | 0.352 | ng/ul  | 99       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.40 | 276  | 24673    | 0.243 | ng/ul# | 92       |
| 25) Dibenzo(a,h)anthracene  | 25.41 | 278  | 5436     | 0.066 | ng/ul# | 86       |
| 26) Benzo(g,h,i)perylene    | 26.05 | 276  | 24286    | 0.286 | ng/ul  | 98       |

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

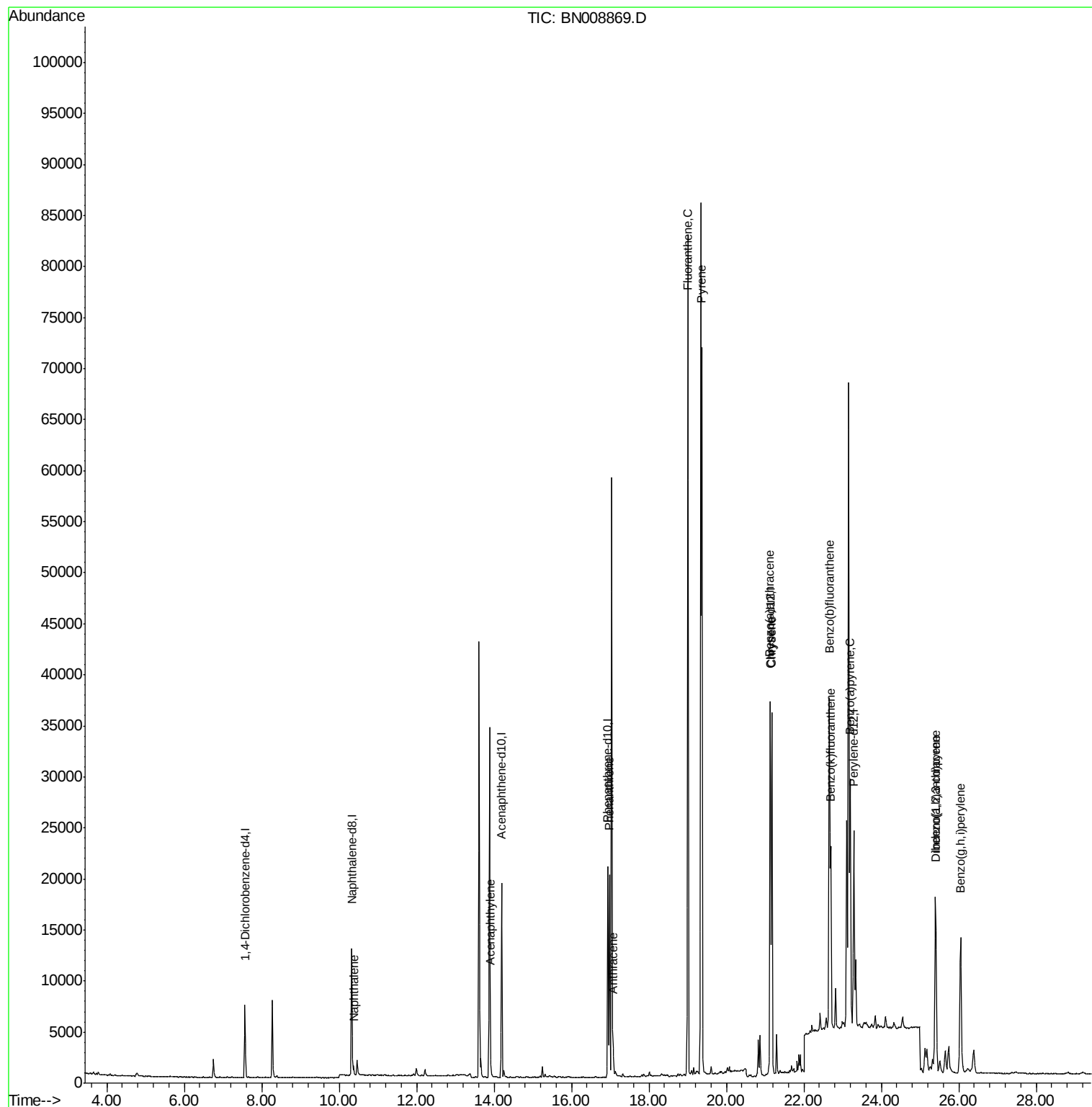
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120619\  
Data File : BN008869.D  
Acq On : 06 Dec 2019 20:49  
Operator : JU  
Sample : K6007-02DL 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

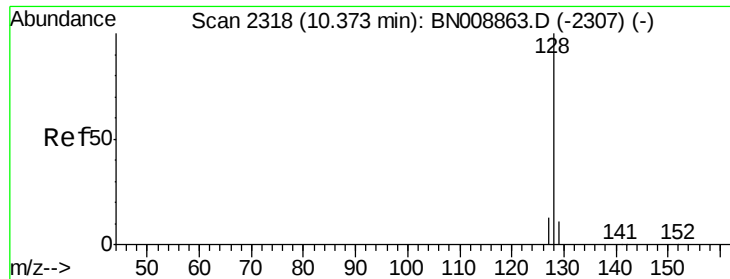
Instrument :  
BNA\_N  
ClientSampleId :  
C0BL0DL

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Quant Time: Dec 06 23:20:35 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN11519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 06 12:03:45 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.026 ng/ul

RT: 10.37 min Scan# 2318

Delta R.T. -0.00 min

Lab File: BN008869.D

Acq: 06 Dec 2019 20:49

Instrument :

BNA\_N

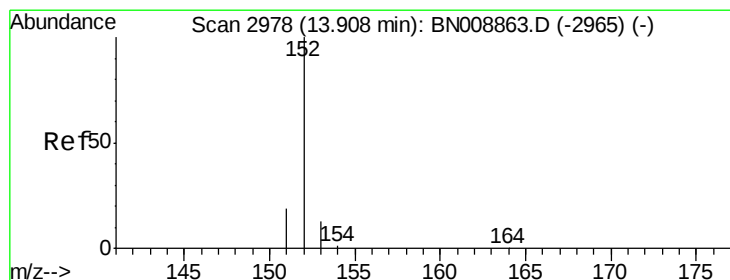
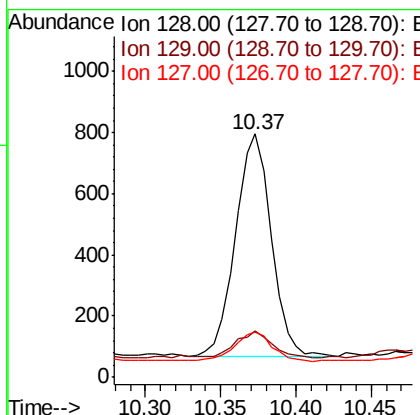
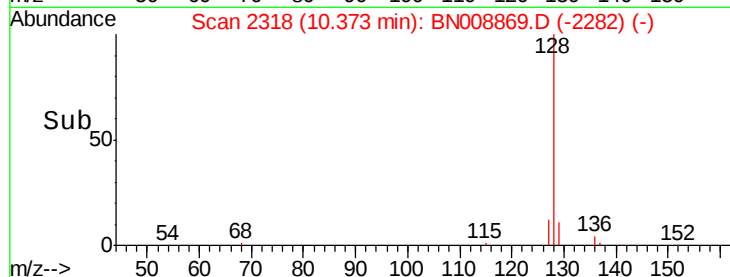
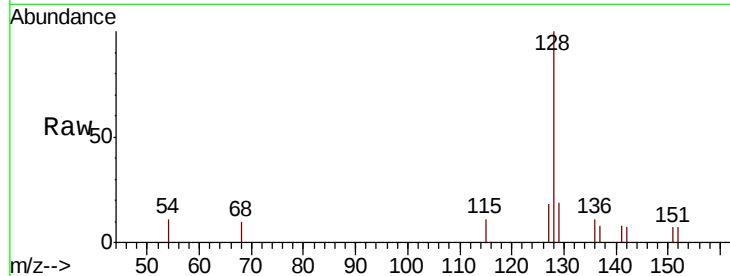
ClientSampleId :

C0BL0DL

|             |       |            |
|-------------|-------|------------|
| Tot Ion:128 | Resp: | 1202       |
| Ion Ratio   | Lower | Upper      |
| 128         | 100   |            |
| 129         | 19.1  | 9.1 13.7#  |
| 127         | 18.5  | 10.7 16.1# |

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#7

Acenaphthylene

Concen: 0.027 ng/ul

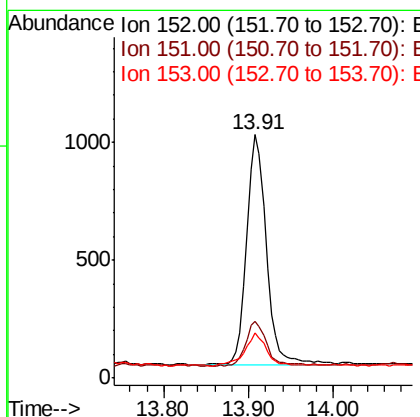
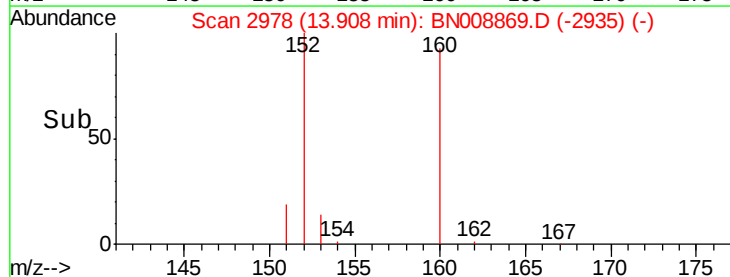
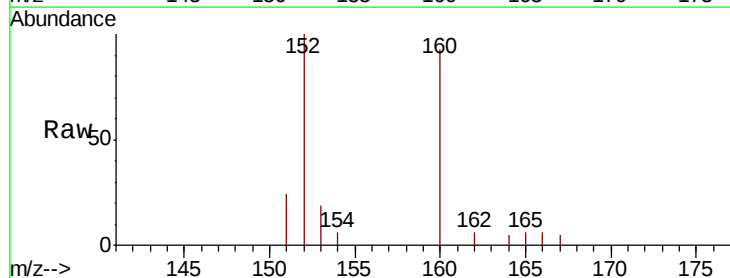
RT: 13.91 min Scan# 2978

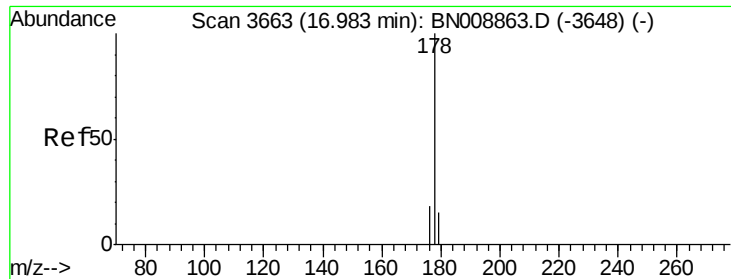
Delta R.T. -0.00 min

Lab File: BN008869.D

Acq: 06 Dec 2019 20:49

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:152 | Resp: | 1569       |
| Ion Ratio   | Lower | Upper      |
| 152         | 100   |            |
| 151         | 23.5  | 15.8 23.6  |
| 153         | 18.6  | 10.6 15.8# |





#12

Phenanthrene

Concen: 0.255 ng/ul

RT: 16.98 min Scan# 3662

Delta R.T. -0.00 min

Lab File: BN008869.D

Acq: 06 Dec 2019 20:49

Instrument :

BNA\_N

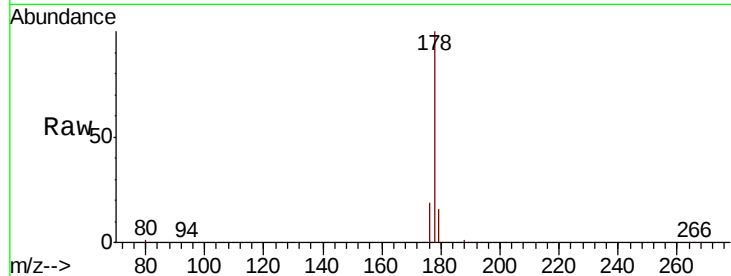
ClientSampleId :

C0BL0DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 19844 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.6  | 12.6  | 18.8  |
| 176       | 18.9  | 15.3  | 22.9  |

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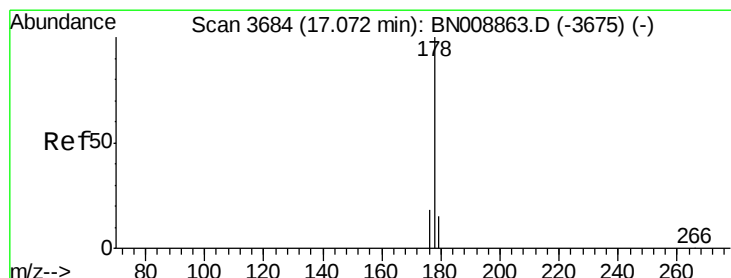
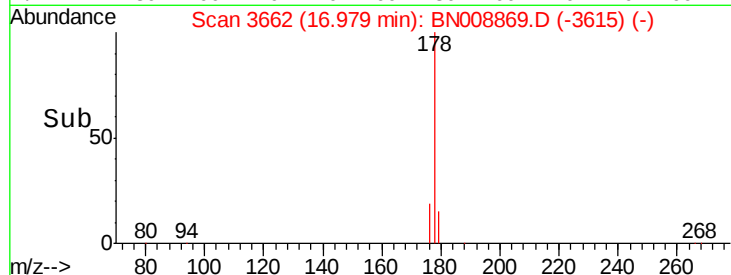
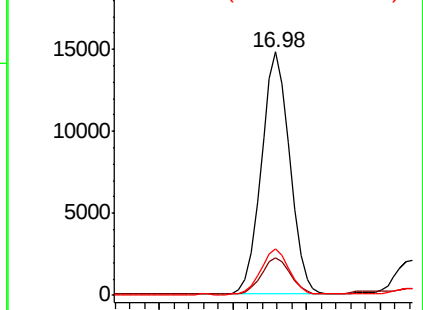
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#13

Anthracene

Concen: 0.038 ng/ul

RT: 17.07 min Scan# 3684

Delta R.T. -0.00 min

Lab File: BN008869.D

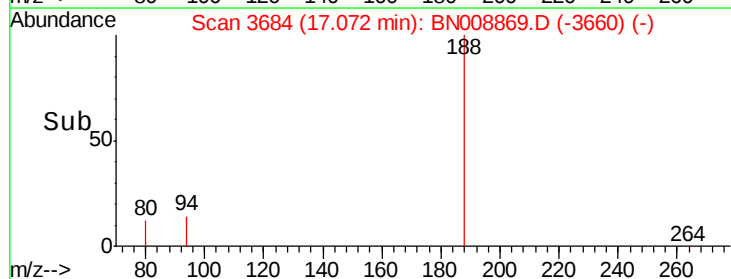
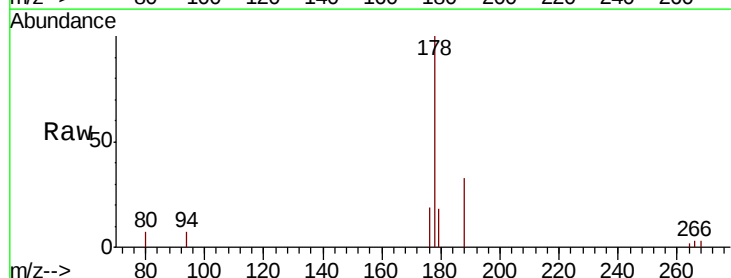
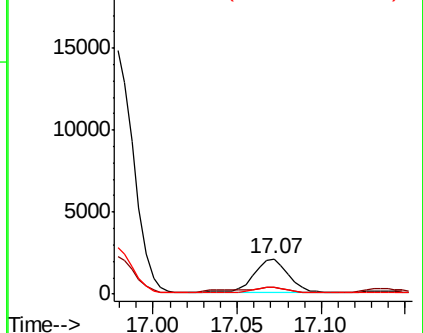
Acq: 06 Dec 2019 20:49

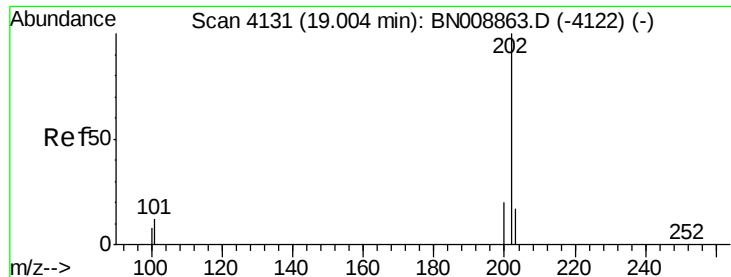
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 2821  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 18.5  | 12.2  | 18.4# |
| 176       | 19.5  | 14.7  | 22.1  |

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#15

Fluoranthene

Concen: 0.729 ng/ul

RT: 19.00 min Scan# 4130

Delta R.T. -0.00 min

Lab File: BN008869.D

Acq: 06 Dec 2019 20:49

Instrument :

BNA\_N

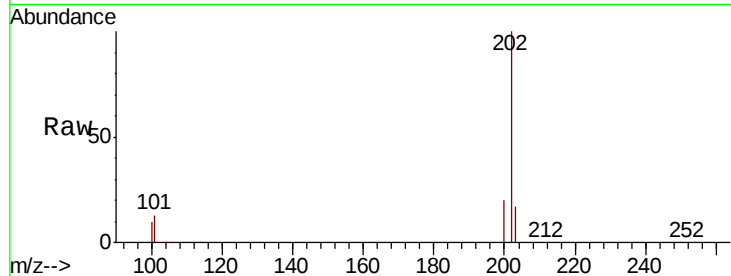
ClientSampleId :

C0BL0DL

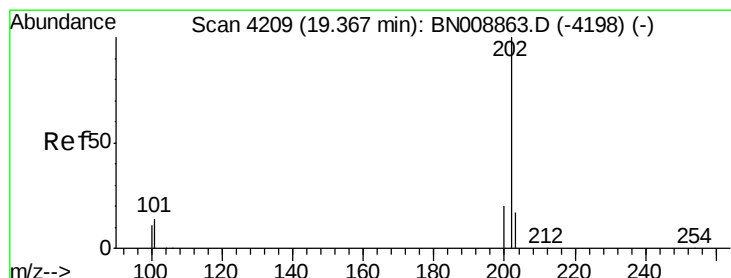
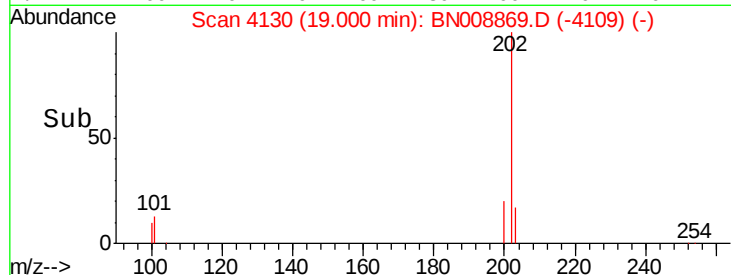
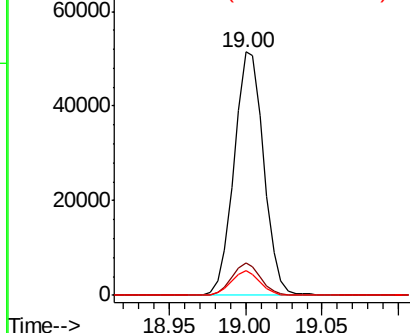
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 69577 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 13.1  | 0.0   | 32.4  |
| 100       | 10.1  | 0.0   | 29.2  |

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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



#17

Pyrene

Concen: 0.718 ng/ul

RT: 19.37 min Scan# 4209

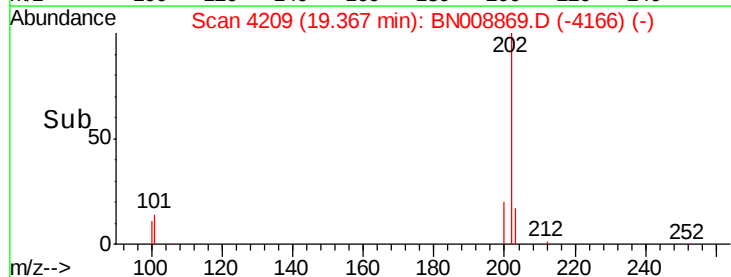
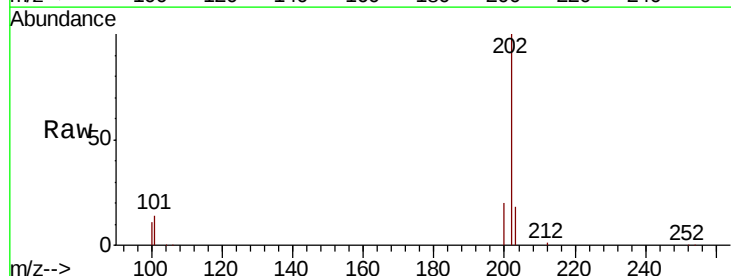
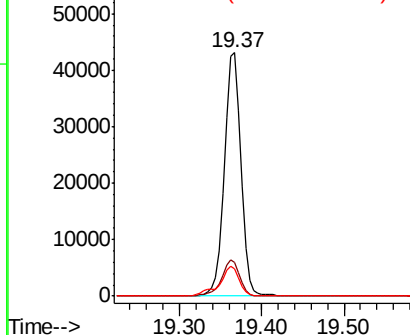
Delta R.T. -0.00 min

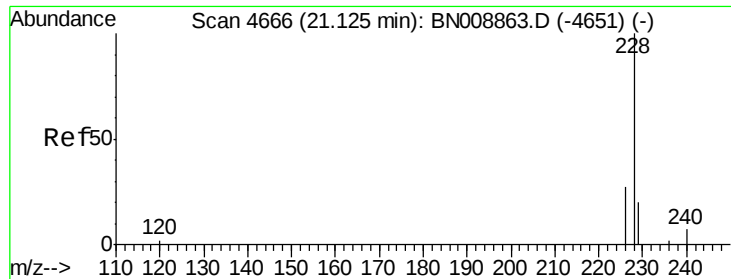
Lab File: BN008869.D

Acq: 06 Dec 2019 20:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 59795 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 14.1  | 12.2  | 18.4  |
| 100       | 11.2  | 9.5   | 14.3  |

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





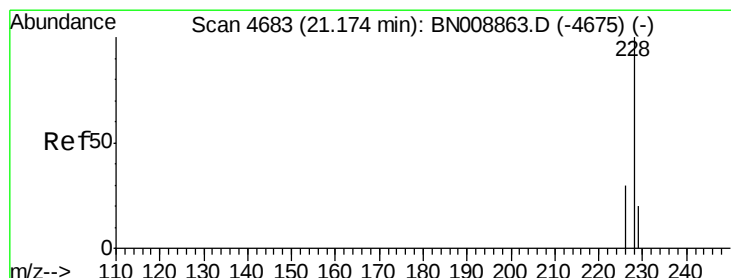
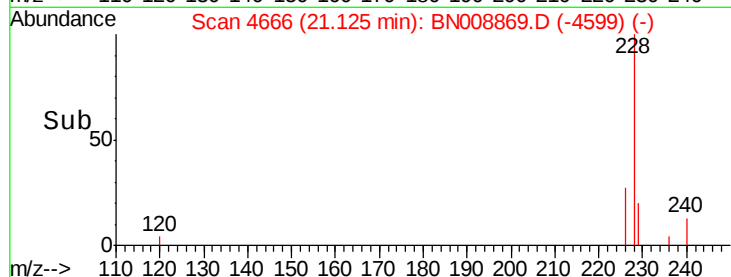
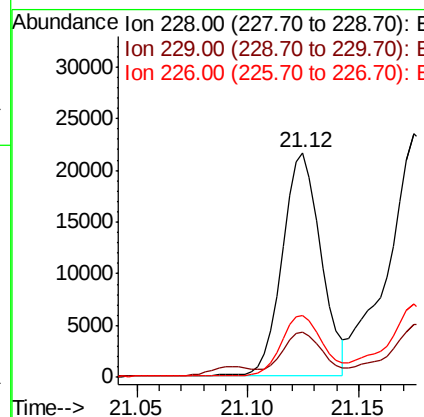
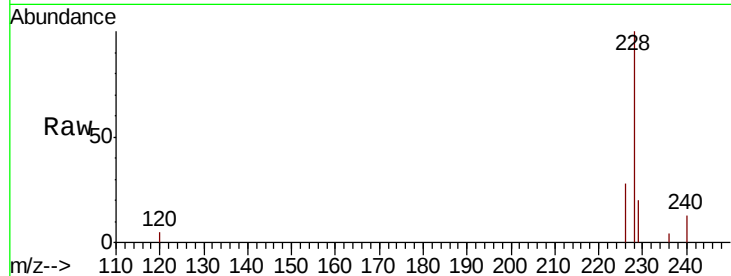
#18  
Benzo(a)anthracene  
Concen: 0.310 ng/ul  
RT: 21.12 min Scan# 4666  
Delta R.T. -0.00 min  
Lab File: BN008869.D  
Acq: 06 Dec 2019 20:49

Instrument :  
BNA\_N  
ClientSampleId :  
C0BL0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.3  | 15.7  | 23.5  |
| 226     | 27.6  | 21.5  | 32.3  |

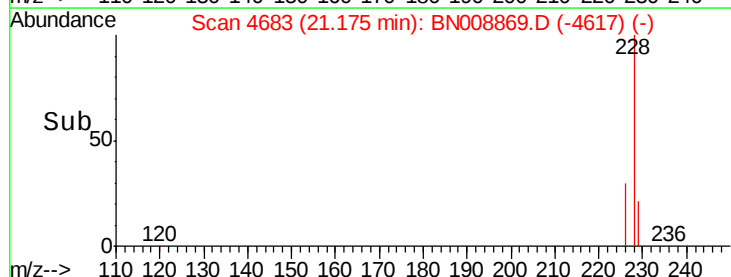
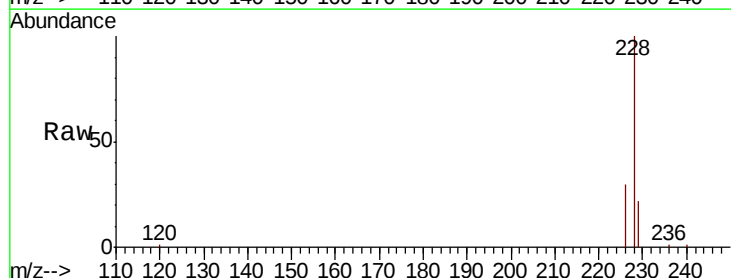
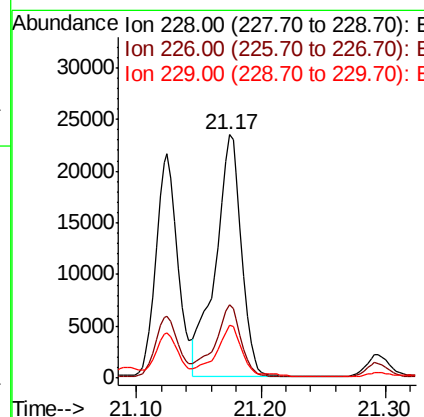
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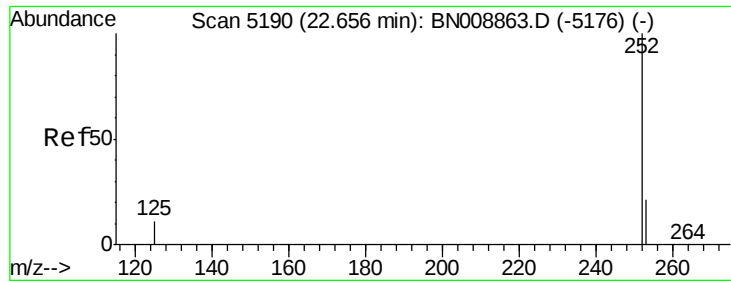
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#19  
Chrysene  
Concen: 0.414 ng/ul  
RT: 21.17 min Scan# 4683  
Delta R.T. -0.01 min  
Lab File: BN008869.D  
Acq: 06 Dec 2019 20:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.3  | 23.8  | 35.6  |
| 229     | 21.8  | 15.6  | 23.4  |





#21

Benzo(b)fluoranthene

Concen: 0.538 ng/ul m

RT: 22.65 min Scan# 5189

Delta R.T. -0.01 min

Lab File: BN008869.D

Acq: 06 Dec 2019 20:49

Instrument :

BNA\_N

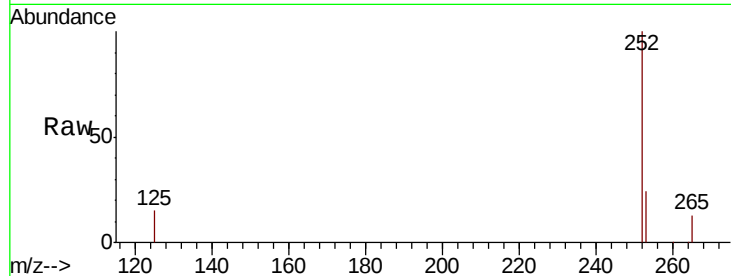
ClientSampleId :

C0BL0DL

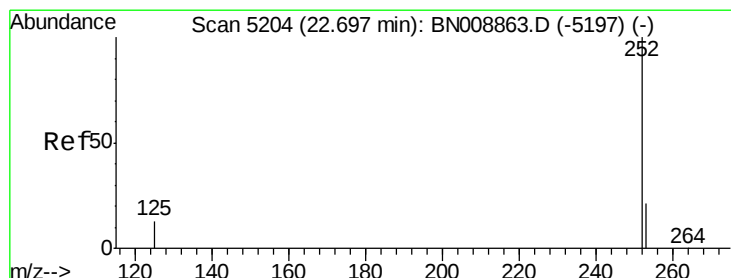
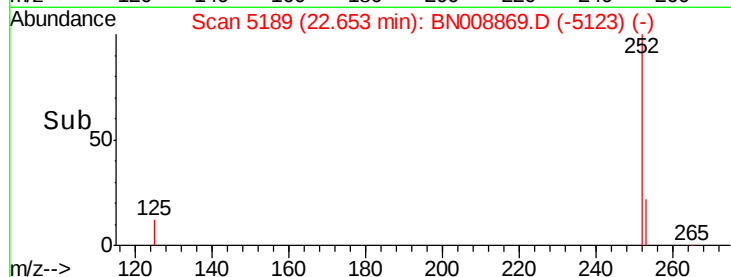
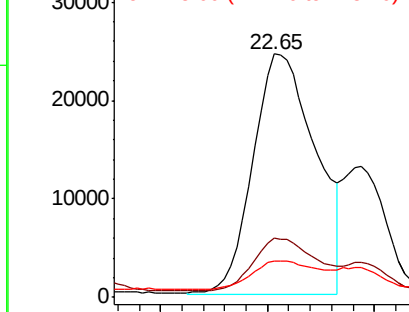
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 49710 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.2  | 0.0   | 48.6  |
| 125       | 14.8  | 0.0   | 31.6  |

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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#22

Benzo(k)fluoranthene

Concen: 0.190 ng/ul m

RT: 22.69 min Scan# 5203

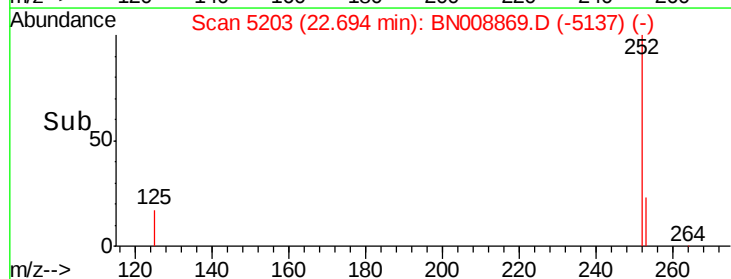
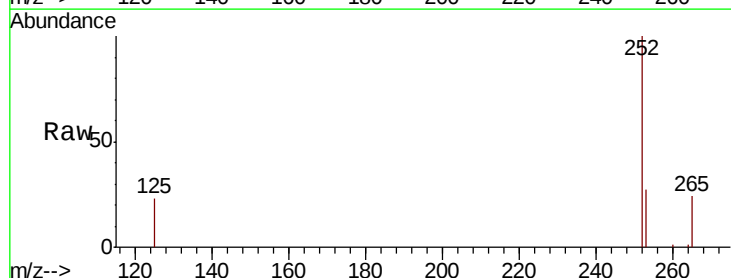
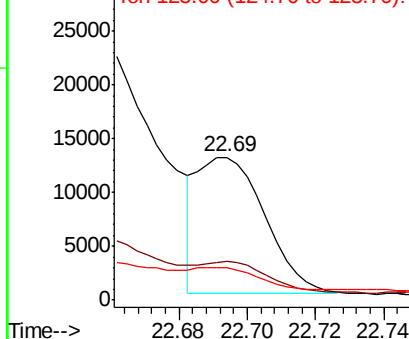
Delta R.T. -0.01 min

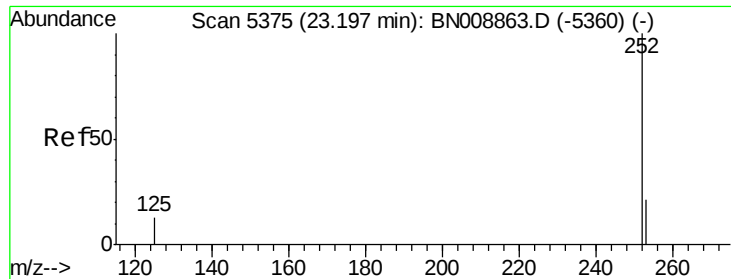
Lab File: BN008869.D

Acq: 06 Dec 2019 20:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 17435 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.9  | 19.6  | 29.4  |
| 125       | 22.6  | 13.8  | 20.6# |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.352 ng/ul

RT: 23.20 min Scan# 5375

Delta R.T. -0.00 min

Lab File: BN008869.D

Acq: 06 Dec 2019 20:49

Instrument :

BNA\_N

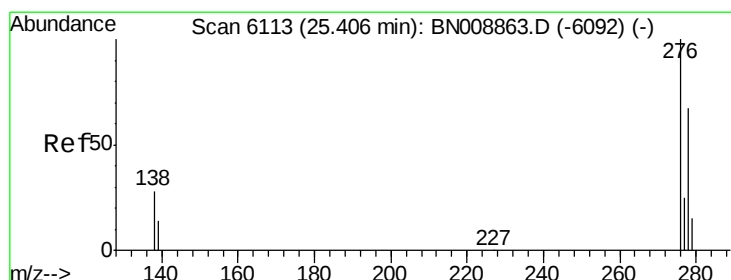
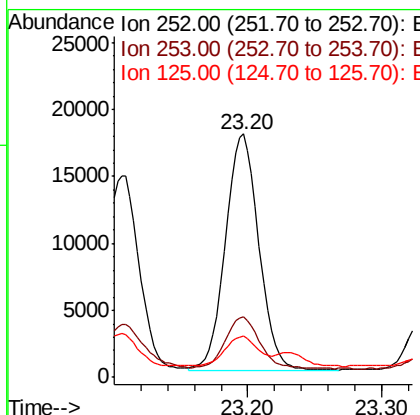
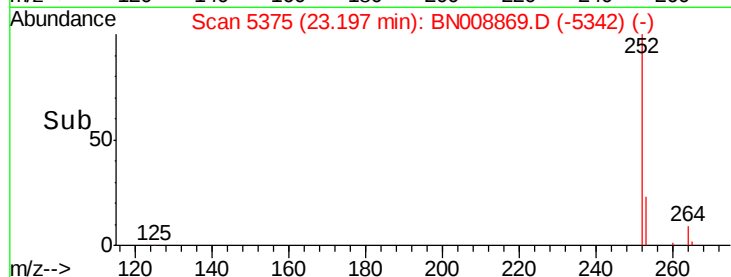
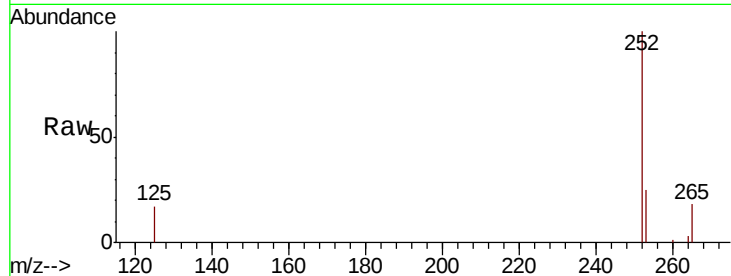
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 30520 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.9  | 19.9  | 29.9  |
| 125       | 16.9  | 14.6  | 22.0  |

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#24

Indeno(1,2,3-cd)pyrene

Concen: 0.243 ng/ul

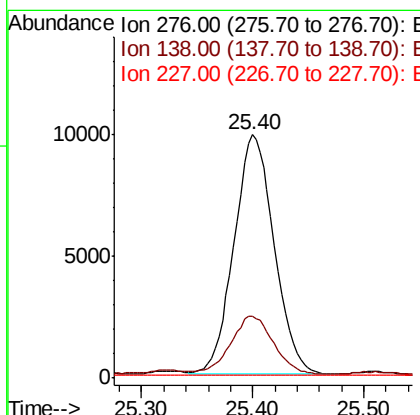
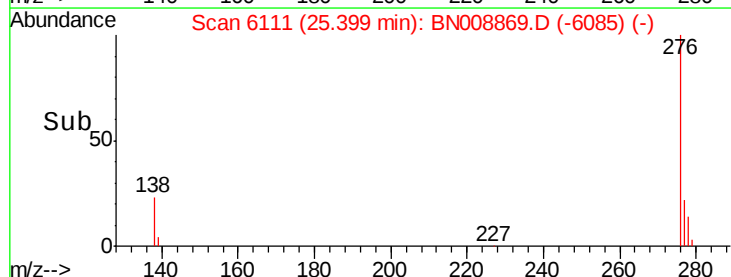
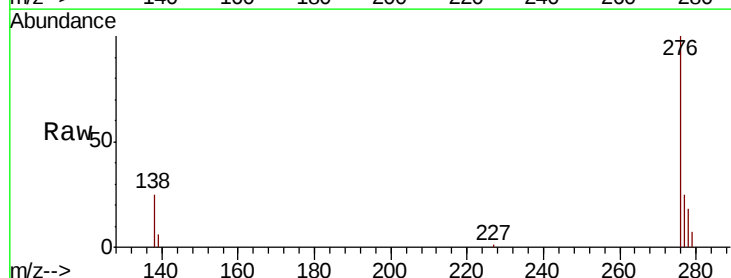
RT: 25.40 min Scan# 6111

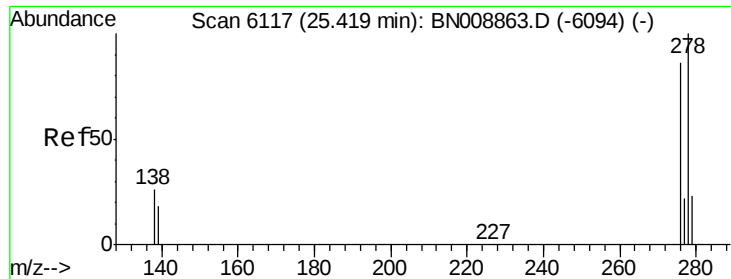
Delta R.T. -0.01 min

Lab File: BN008869.D

Acq: 06 Dec 2019 20:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 24673 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 25.5  | 23.8  | 35.6  |
| 227       | 0.3   | 0.2   | 0.2#  |





#25

Dibenzo(a,h)anthracene

Concen: 0.066 ng/ul

RT: 25.41 min Scan# 6115

Delta R.T. -0.01 min

Lab File: BN008869.D

Acq: 06 Dec 2019 20:49

Instrument :

BNA\_N

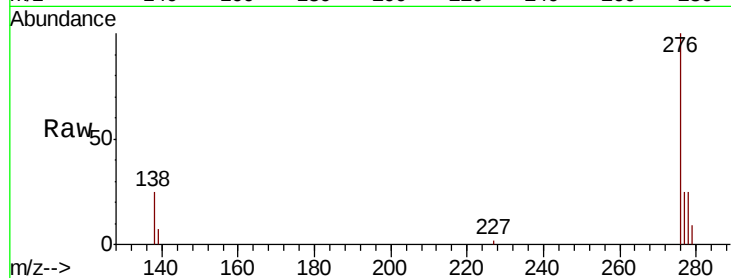
ClientSampled :

C0BL0DL

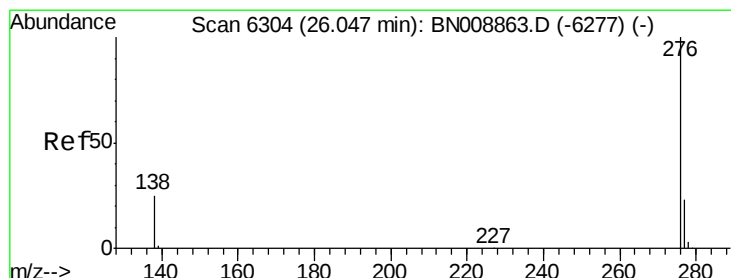
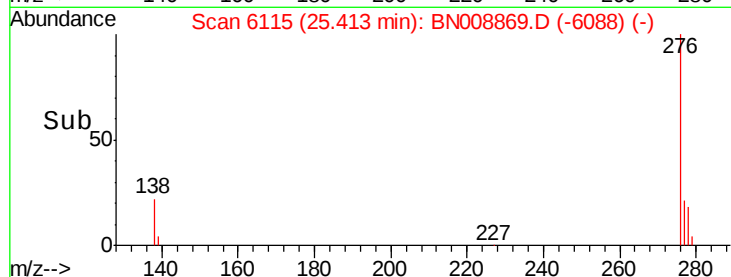
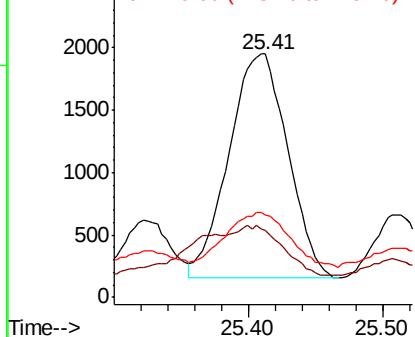
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 278   | Resp: | 5436  |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 27.3  | 17.4  | 26.0# |
| 279       | 33.7  | 20.5  | 30.7# |

Manual Integrations  
APPROVED

mohammad  
12/9/2019 3:07:55 PM



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: 0.286 ng/ul

RT: 26.05 min Scan# 6304

Delta R.T. -0.01 min

Lab File: BN008869.D

Acq: 06 Dec 2019 20:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 24286 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 26.2  | 21.9  | 32.9  |
| 277       | 25.3  | 19.9  | 29.9  |

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

