

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122819\  
 Data File : BN009238.D  
 Acq On : 28 Dec 2019 21:04  
 Operator : JU  
 Sample : K6278-14  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0C67

Manual Integrations  
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 12/29/2019 5:33:06 PM

Quant Time: Dec 29 05:32:58 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN121619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Dec 29 04:38:59 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.51  | 152  | 2344     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.26 | 136  | 8542     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.14 | 164  | 4862     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.89 | 188  | 9970m    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.09 | 240  | 7523     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.21 | 264  | 7641     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.86 | 152  | 3297     | 0.22   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 18.92 | 212  | 6929     | 0.24   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.31 | 128  | 16292    | 0.629  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 11.93 | 142  | 17720    | 0.905  | ng/ul  | 100      |
| 7) Acenaphthylene           | 13.85 | 152  | 19503    | 0.764  | ng/ul  | 99       |
| 8) Acenaphthene             | 14.20 | 153  | 3077     | 0.154  | ng/ul  | 96       |
| 9) Fluorene                 | 15.19 | 166  | 5537     | 0.234  | ng/ul# | 94       |
| 12) Phenanthrene            | 16.93 | 178  | 84755    | 2.445  | ng/ul  | 100      |
| 13) Anthracene              | 17.02 | 178  | 26703    | 0.859  | ng/ul  | 99       |
| 15) Fluoranthene            | 18.95 | 202  | 210941   | 5.320  | ng/ul  | 99       |
| 17) Pyrene                  | 19.32 | 202  | 176369   | 4.595  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.07 | 228  | 102700   | 3.074  | ng/ul  | 96       |
| 19) Chrysene                | 21.12 | 228  | 99353    | 2.959  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.59 | 252  | 124475m  | 3.489  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.62 | 252  | 45292m   | 1.259  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.12 | 252  | 78146    | 2.499  | ng/ul  | 95       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.30 | 276  | 54629    | 1.604  | ng/ul# | 89       |
| 25) Dibenzo(a,h)anthracene  | 25.31 | 278  | 14491    | 0.535  | ng/ul# | 90       |
| 26) Benzo(a,h,i)perylene    | 25.94 | 276  | 52129    | 1.817  | ng/ul  | 98       |

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

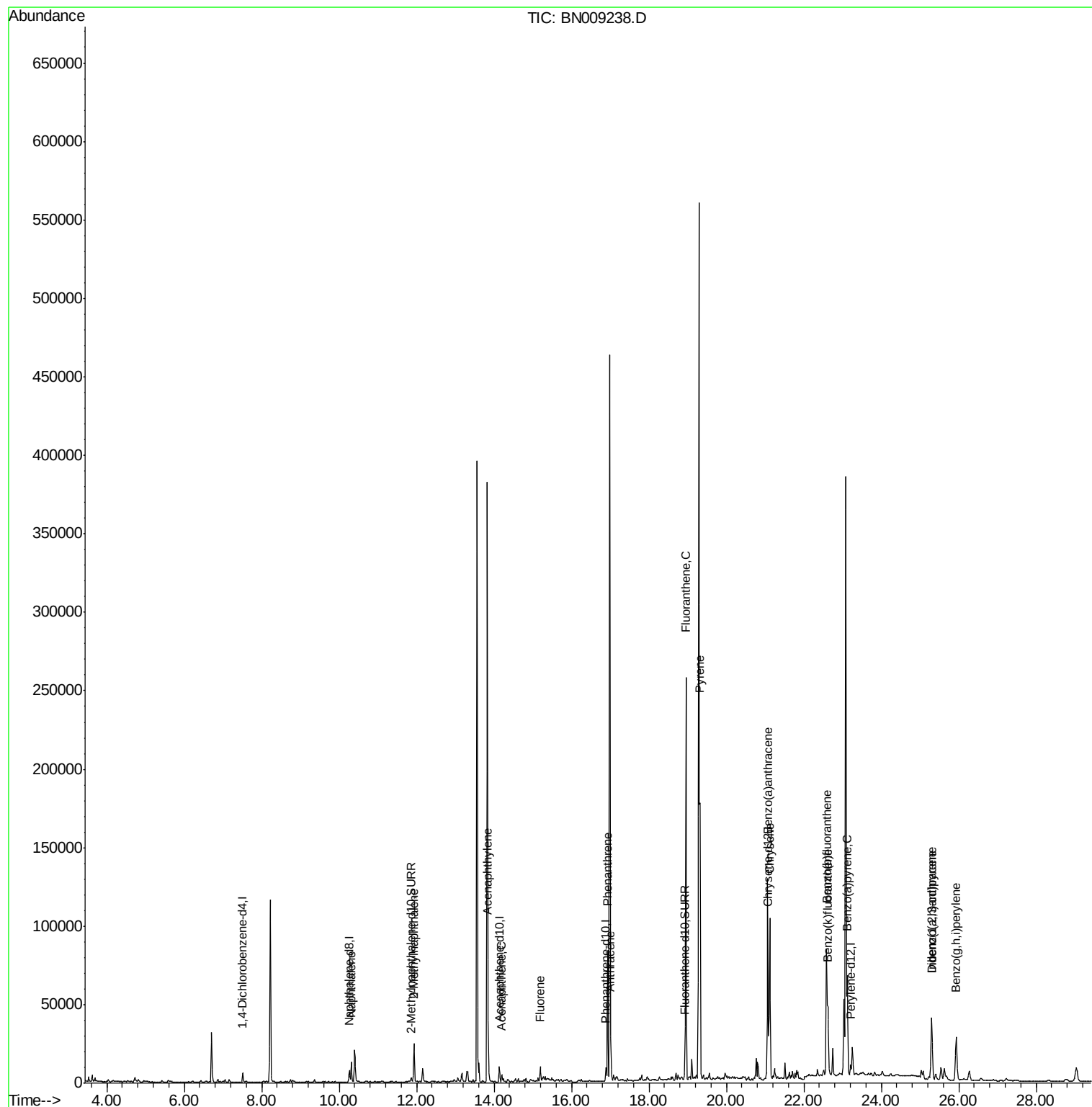
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN122819\  
Data File : BN009238.D  
Acq On : 28 Dec 2019 21:04  
Operator : JU  
Sample : K6278-14  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

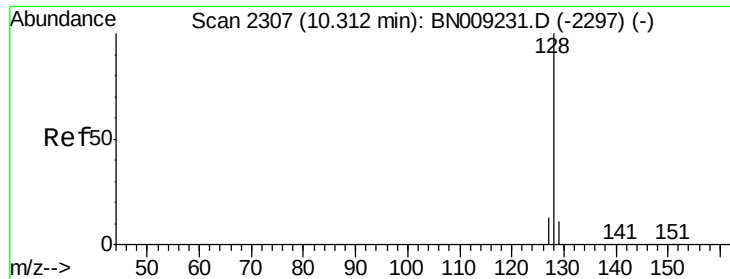
Instrument :  
BNA\_N  
ClientSampleId :  
C0C67

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Quant Time: Dec 29 05:32:58 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN121619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Dec 29 04:38:59 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.629 ng/ul

RT: 10.31 min Scan# 2307

Delta R.T. 0.00 min

Lab File: BN009238.D

Acq: 28 Dec 2019 21:04

Instrument :

BNA\_N

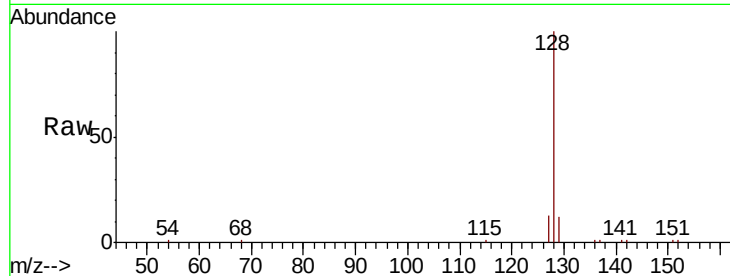
ClientSampleId :

C0C67

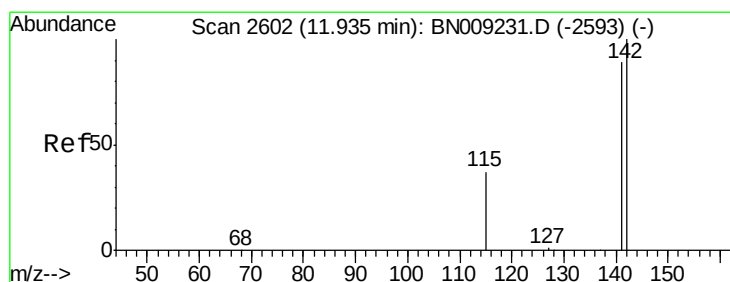
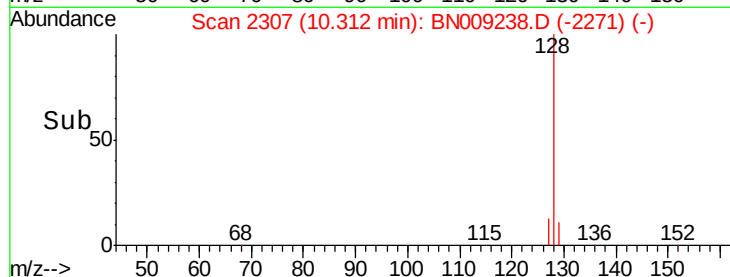
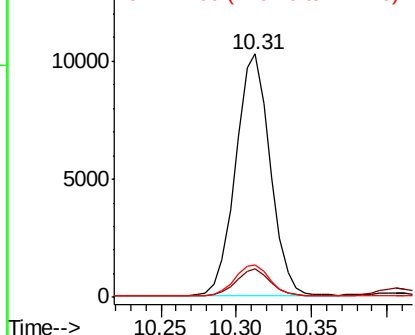
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 16292 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.6  | 9.0   | 13.4  |
| 127      | 13.5  | 10.9  | 16.3  |

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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: 0.905 ng/ul

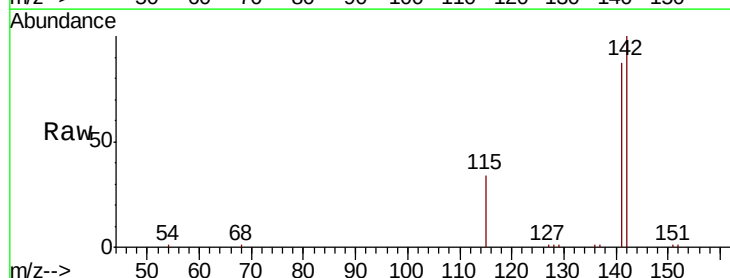
RT: 11.93 min Scan# 2602

Delta R.T. 0.00 min

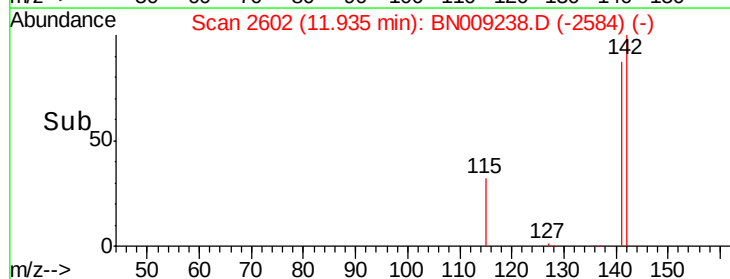
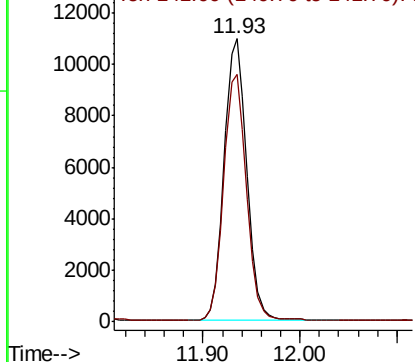
Lab File: BN009238.D

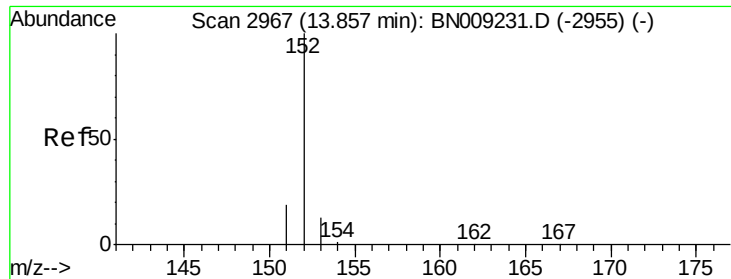
Acq: 28 Dec 2019 21:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 17720 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 87.8  | 70.2  | 105.4 |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.764 ng/ul

RT: 13.85 min Scan# 2966

Delta R.T. -0.00 min

Lab File: BN009238.D

Acq: 28 Dec 2019 21:04

Instrument :

BNA\_N

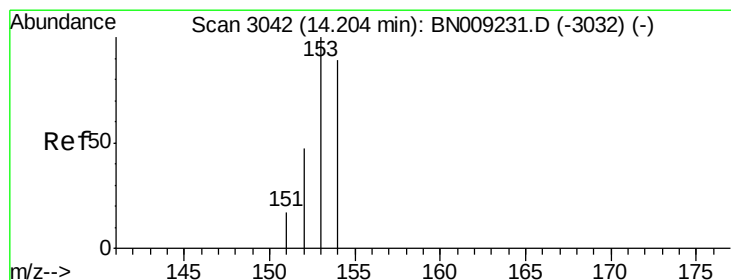
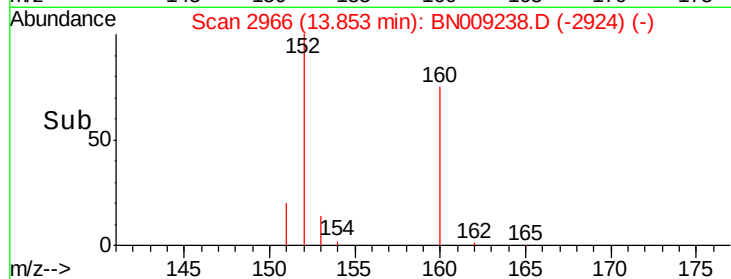
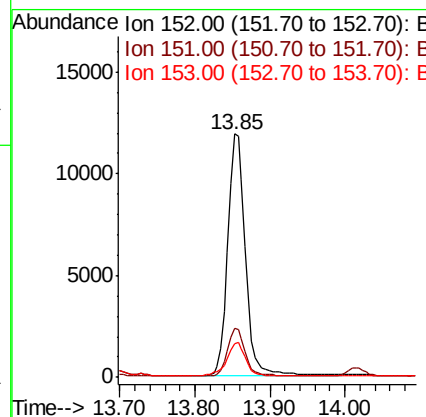
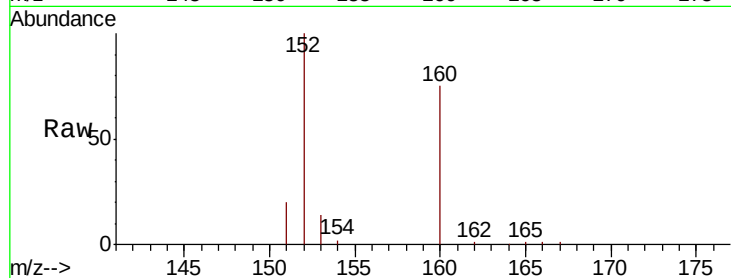
ClientSampleId :

C0C67

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 19503 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.1  | 15.7  | 23.5  |
| 153       | 14.0  | 10.8  | 16.2  |

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#8

Acenaphthene

Concen: 0.154 ng/ul

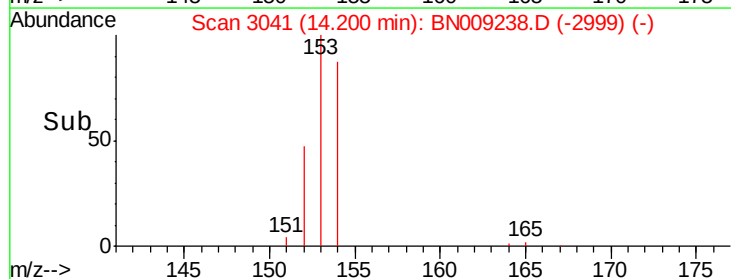
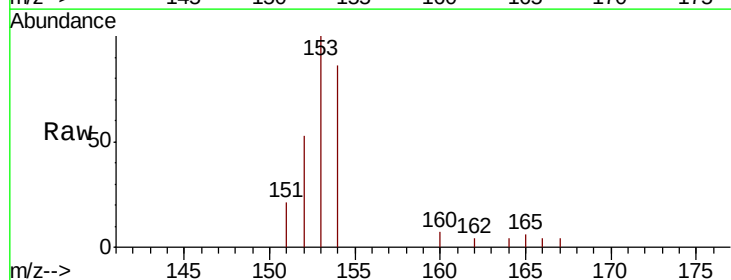
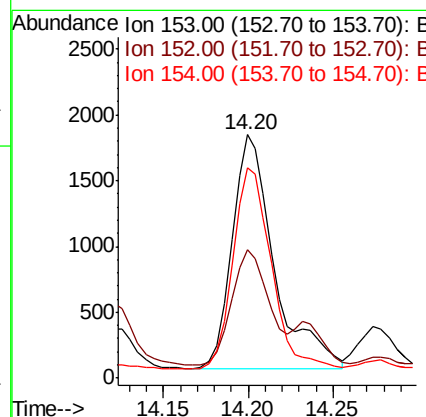
RT: 14.20 min Scan# 3041

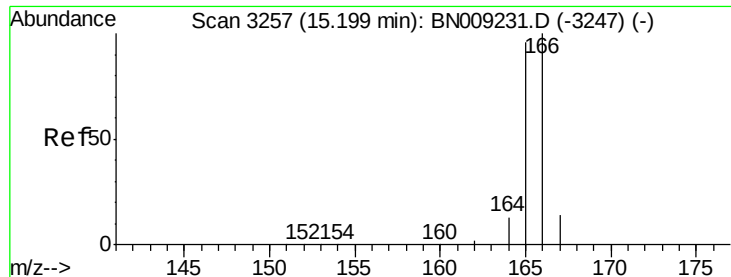
Delta R.T. -0.00 min

Lab File: BN009238.D

Acq: 28 Dec 2019 21:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 3077  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 52.9  | 39.5  | 59.3  |
| 154       | 86.5  | 71.3  | 106.9 |





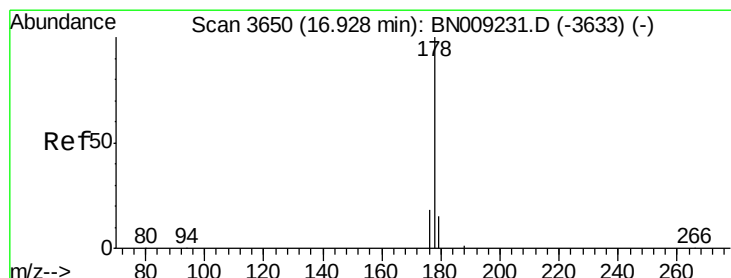
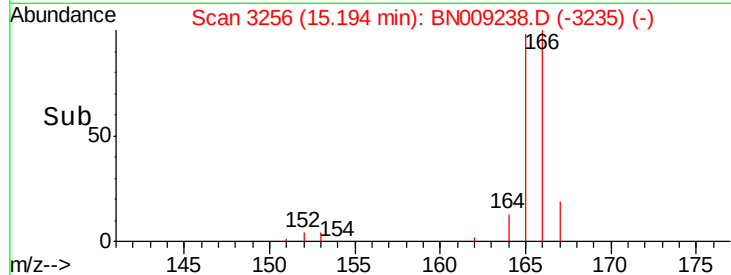
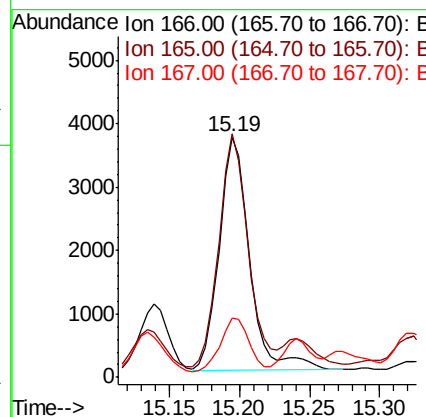
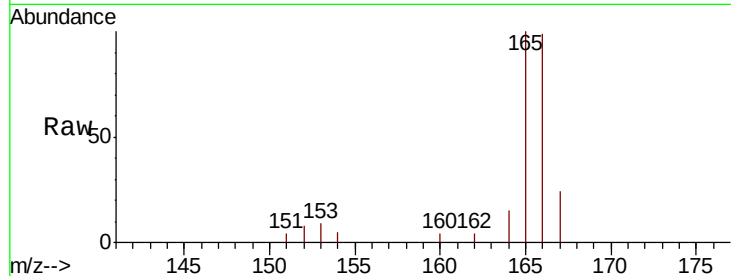
#9  
Fluorene  
Concen: 0.234 ng/ul  
RT: 15.19 min Scan# 3256  
Delta R.T. -0.00 min  
Lab File: BN009238.D  
Acq: 28 Dec 2019 21:04

Instrument :  
BNA\_N  
ClientSampleId :  
C0C67

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.3 | 78.2  | 117.4 |
| 167     | 24.8  | 11.0  | 16.6  |

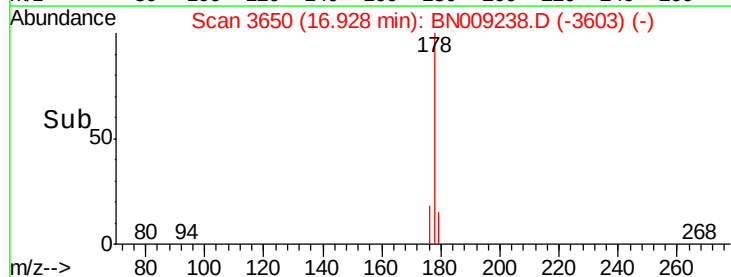
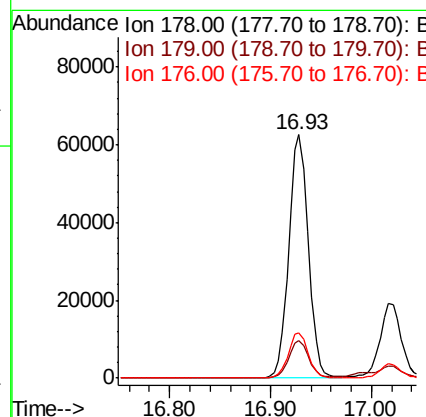
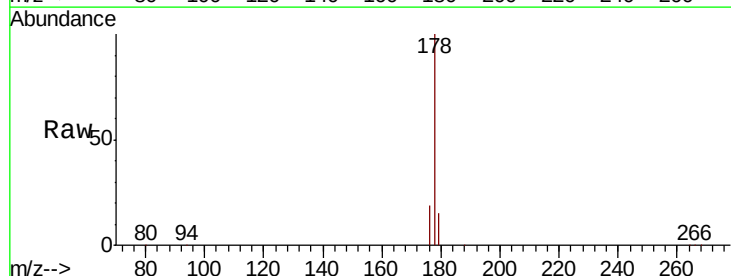
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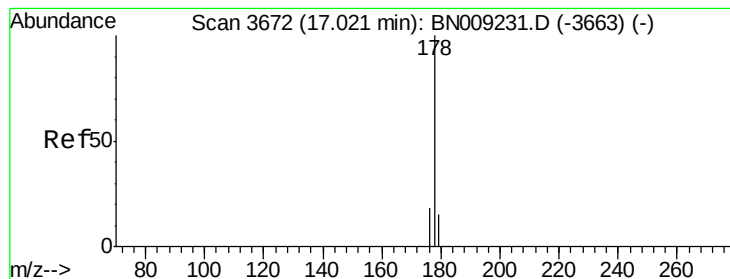
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#12  
Phenanthrene  
Concen: 2.445 ng/ul  
RT: 16.93 min Scan# 3650  
Delta R.T. 0.00 min  
Lab File: BN009238.D  
Acq: 28 Dec 2019 21:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.5  | 12.3  | 18.5  |
| 176     | 18.6  | 15.1  | 22.7  |





#13

Anthracene

Concen: 0.859 ng/ul

RT: 17.02 min Scan# 3671

Delta R.T. -0.00 min

Lab File: BN009238.D

Acq: 28 Dec 2019 21:04

Instrument :

BNA\_N

ClientSampleId :

C0C67

Tot Ion:178 Resp: 26703

Ion Ratio Lower Upper

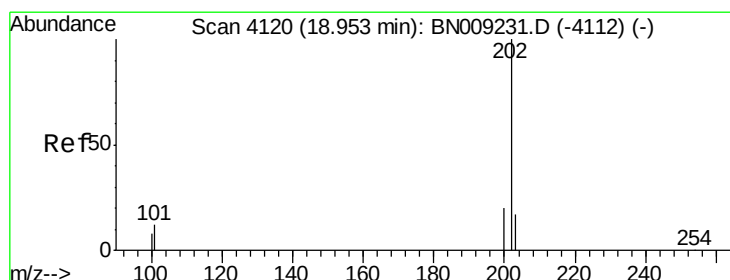
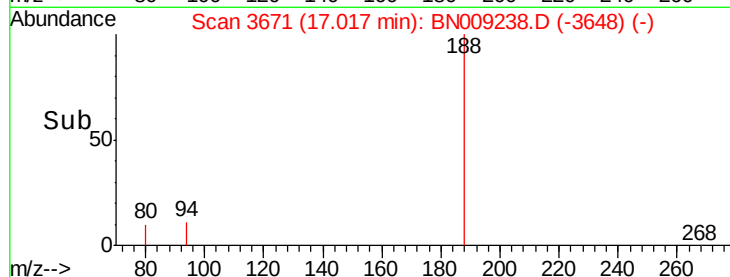
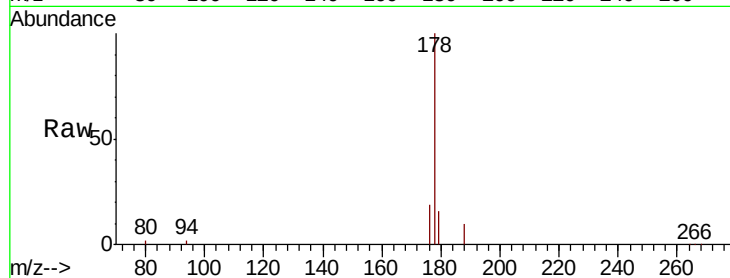
178 100

179 16.2 12.5 18.7

176 18.5 14.9 22.3

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#15

Fluoranthene

Concen: 5.320 ng/ul

RT: 18.95 min Scan# 4120

Delta R.T. 0.00 min

Lab File: BN009238.D

Acq: 28 Dec 2019 21:04

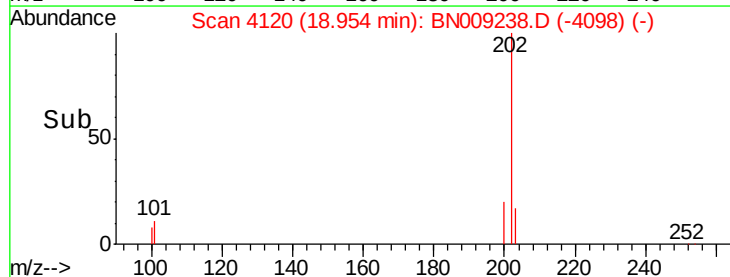
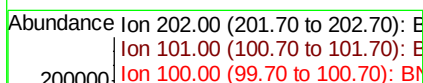
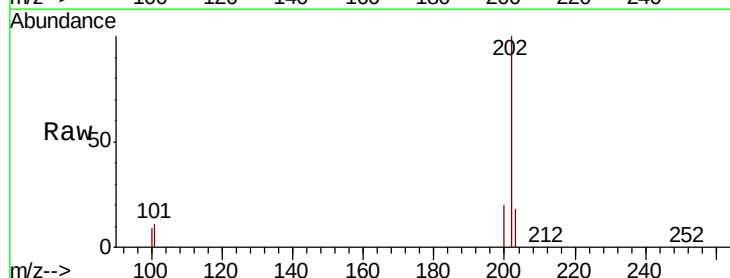
Tgt Ion:202 Resp: 210941

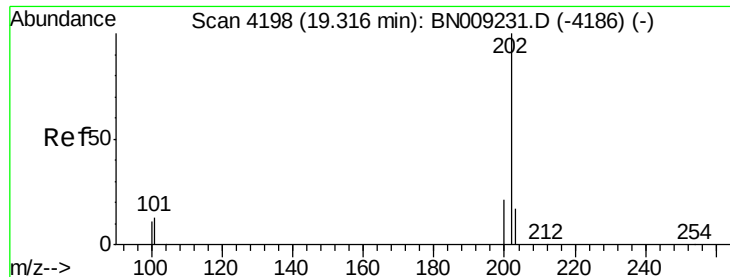
Ion Ratio Lower Upper

202 100

101 11.5 0.0 31.5

100 8.5 0.0 28.9





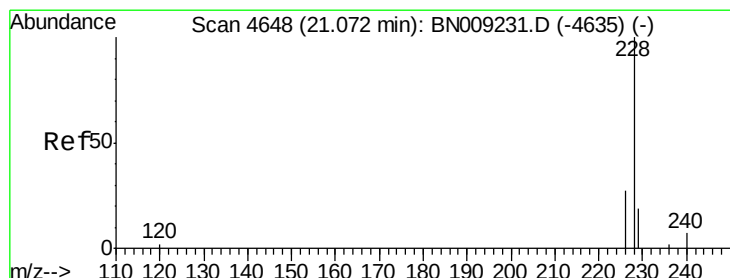
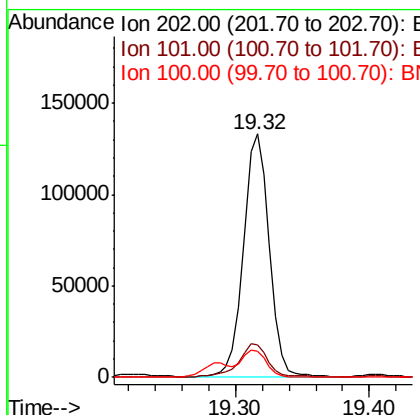
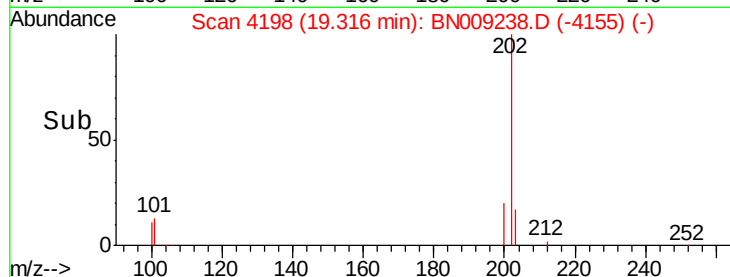
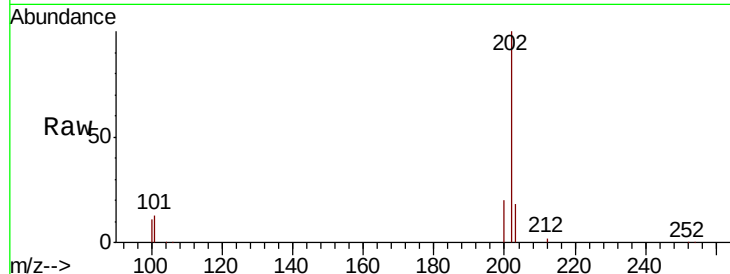
#17  
Pvrene  
Concen: 4.595 ng/ul  
RT: 19.32 min Scan# 4198  
Delta R.T. 0.00 min  
Lab File: BN009238.D  
Acq: 28 Dec 2019 21:04

Instrument :  
BNA\_N  
ClientSampleId :  
C0C67

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 13.5  | 10.9       | 16.3  |
| 100     | 10.9  | 9.0        | 13.6  |

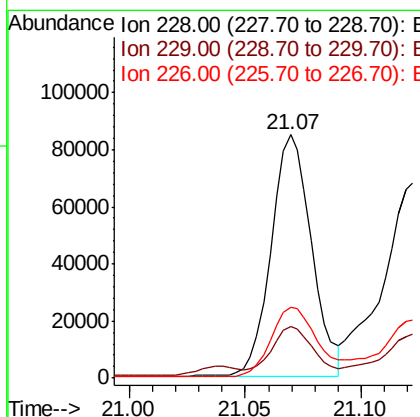
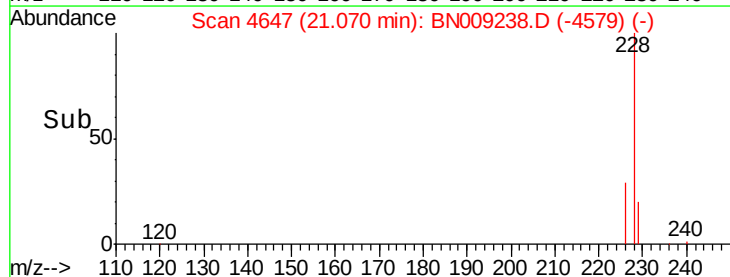
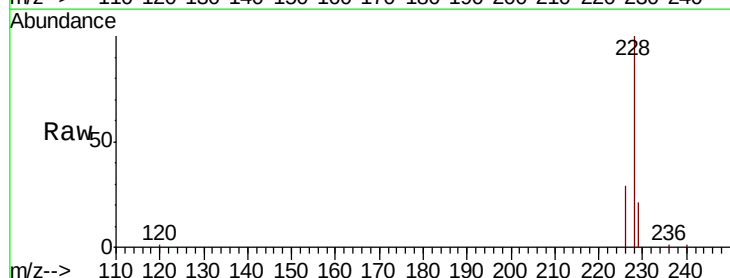
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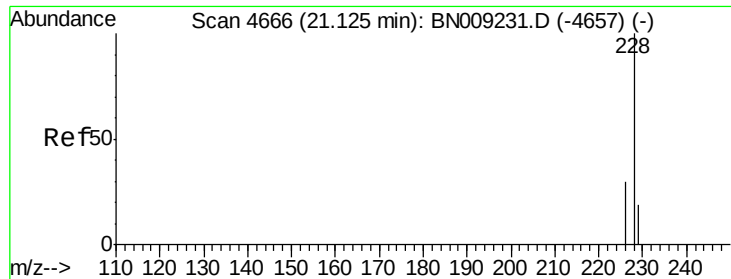
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#18  
Benzo(a)anthracene  
Concen: 3.074 ng/ul  
RT: 21.07 min Scan# 4647  
Delta R.T. -0.00 min  
Lab File: BN009238.D  
Acq: 28 Dec 2019 21:04

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 21.0  | 15.5       | 23.3  |
| 226     | 29.3  | 21.7       | 32.5  |





#19

Chrysene

Concen: 2.959 ng/ul

RT: 21.12 min Scan# 4665

Delta R.T. -0.00 min

Lab File: BN009238.D

Acq: 28 Dec 2019 21:04

Instrument :

BNA\_N

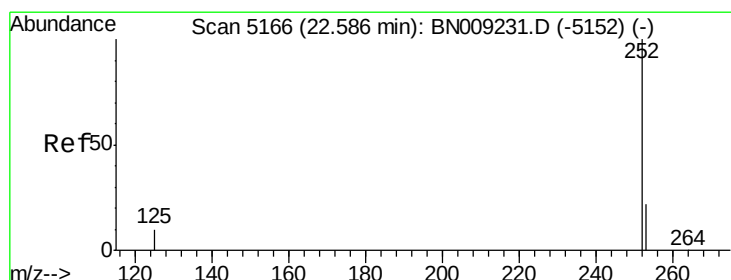
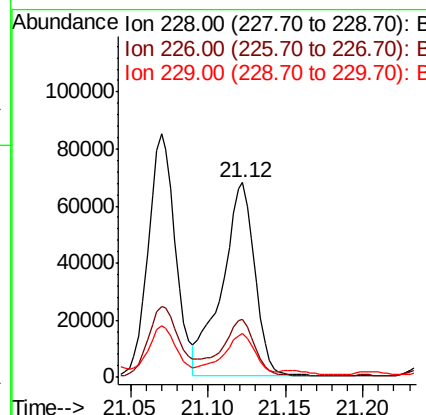
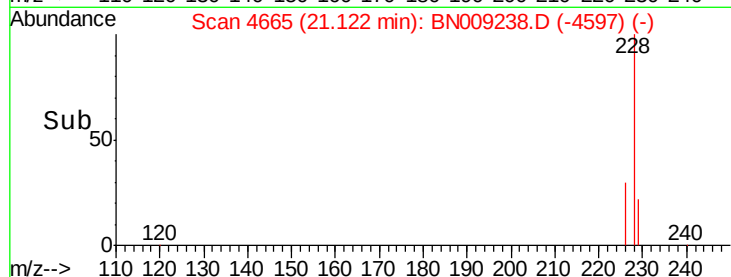
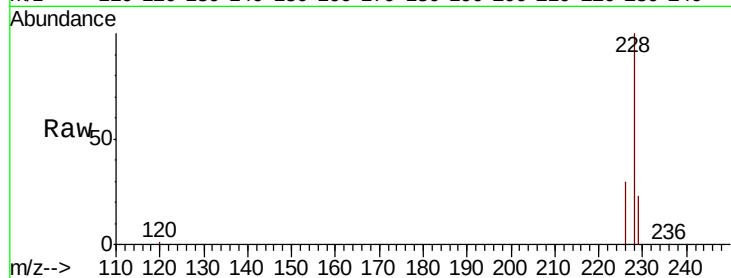
ClientSampleId :

C0C67

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 99353 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.9  | 23.7  | 35.5  |
| 229       | 22.8  | 15.4  | 23.0  |

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#21

Benzo(b)fluoranthene

Concen: 3.489 ng/ul m

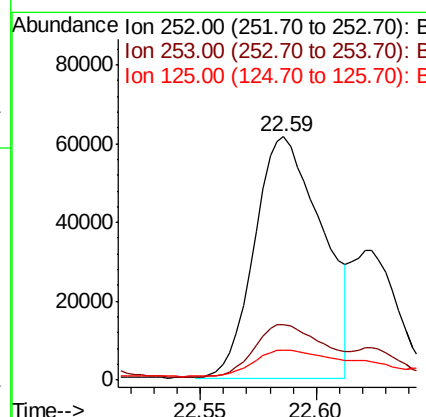
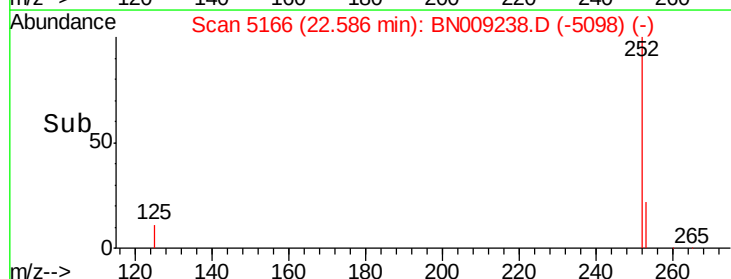
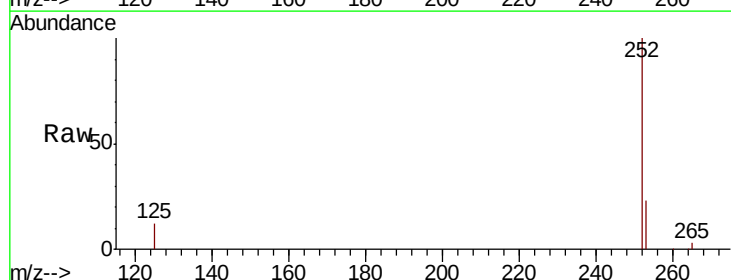
RT: 22.59 min Scan# 5166

Delta R.T. 0.00 min

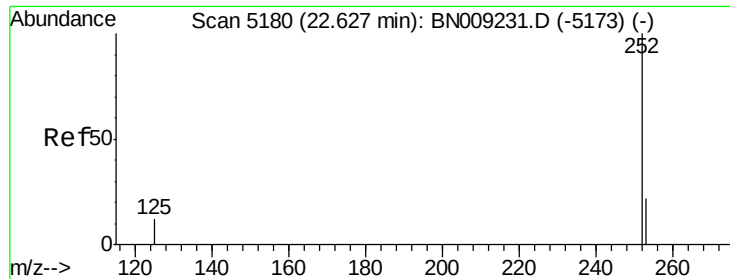
Lab File: BN009238.D

Acq: 28 Dec 2019 21:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 124475 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 0.0   | 48.2   |
| 125       | 12.2  | 0.0   | 30.0   |







#22

Benzo(k)fluoranthene

Concen: 1.259 ng/ul m

RT: 22.62 min Scan# 5179

Delta R.T. -0.00 min

Lab File: BN009238.D

Acq: 28 Dec 2019 21:04

Instrument :

BNA\_N

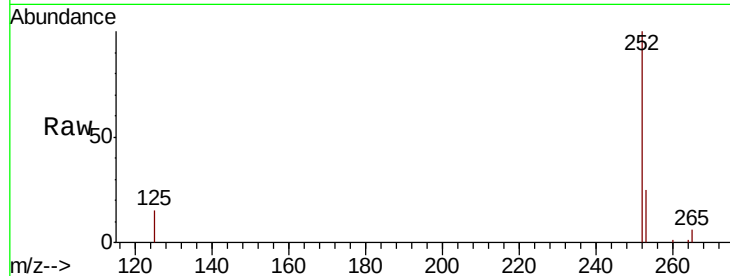
ClientSampleId :

C0C67

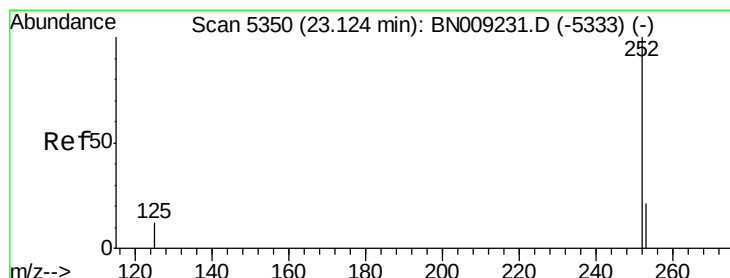
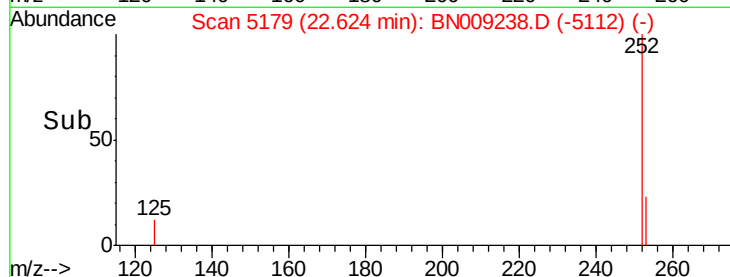
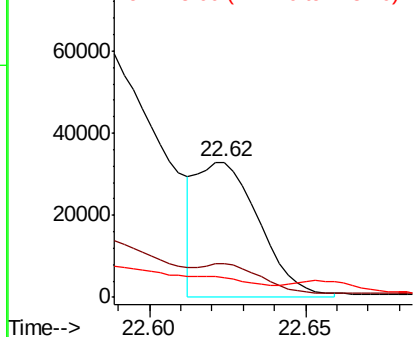
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 45292 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.8  | 19.4  | 29.0  |
| 125       | 14.6  | 12.4  | 18.6  |

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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



#23

Benzo(a)pyrene

Concen: 2.499 ng/ul

RT: 23.12 min Scan# 5349

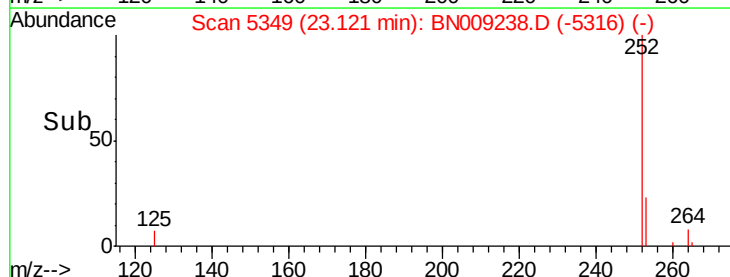
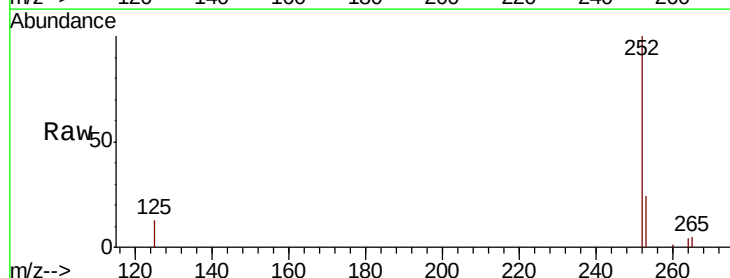
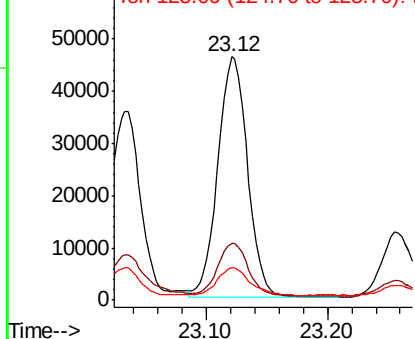
Delta R.T. -0.00 min

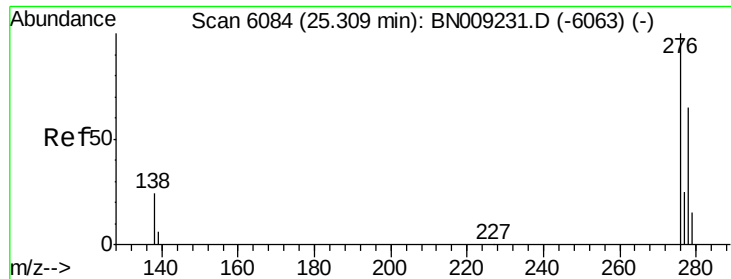
Lab File: BN009238.D

Acq: 28 Dec 2019 21:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 78146 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.5  | 20.2  | 30.4  |
| 125       | 13.3  | 13.2  | 19.8  |

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





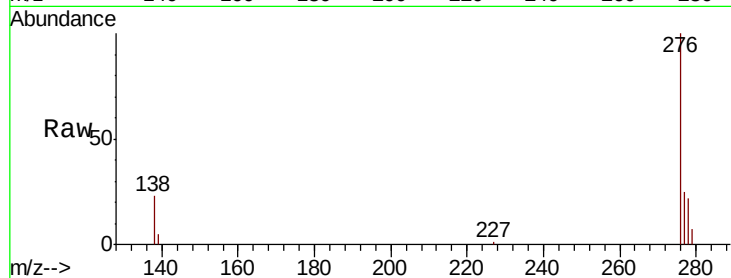
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 1.604 ng/ul  
RT: 25.30 min Scan# 6081  
Delta R.T. -0.01 min  
Lab File: BN009238.D  
Acq: 28 Dec 2019 21:04

Instrument :  
BNA\_N  
ClientSampleId :  
C0C67

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.1  | 22.4  | 33.6# |
| 227     | 0.4   | 0.2   | 0.4#  |

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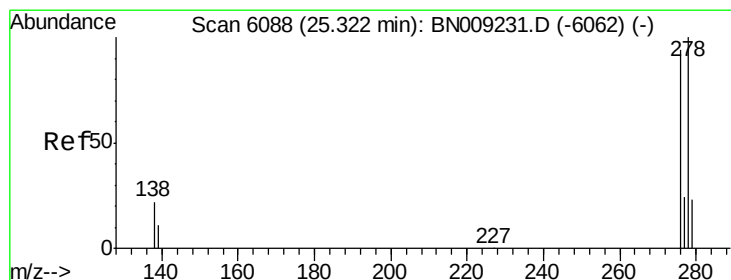
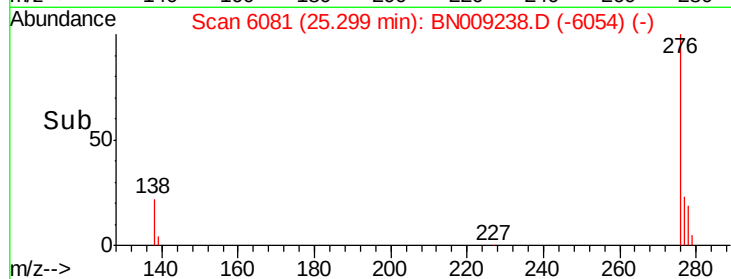
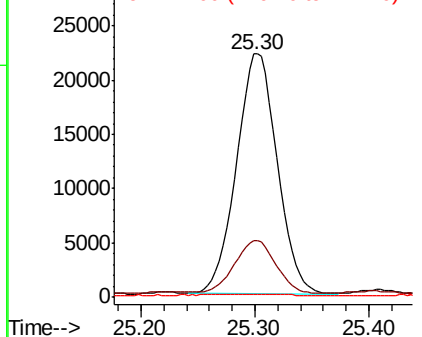


Abundance

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: 0.535 ng/ul  
RT: 25.31 min Scan# 6083  
Delta R.T. -0.02 min  
Lab File: BN009238.D  
Acq: 28 Dec 2019 21:04

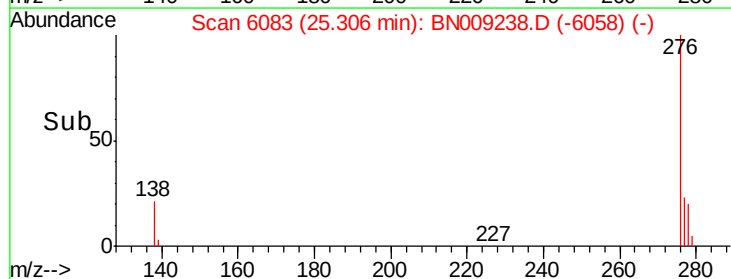
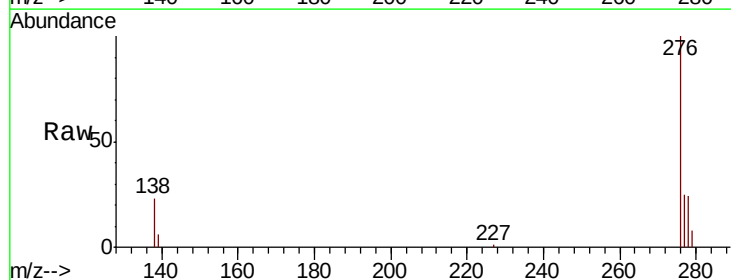
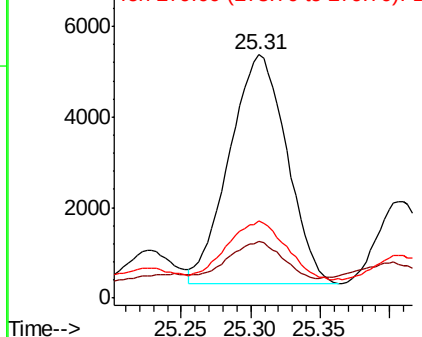
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 23.1  | 16.2  | 24.2  |
| 279     | 31.6  | 20.3  | 30.5# |

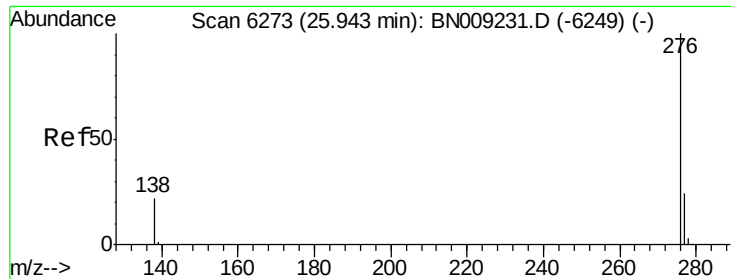
Abundance

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: 1.817 ng/ul  
RT: 25.94 min Scan# 6271  
Delta R.T. -0.01 min  
Lab File: BN009238.D  
Acq: 28 Dec 2019 21:04

Instrument :  
BNA\_N  
ClientSampleId :  
C0C67

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.9  | 20.6  | 30.8  |
| 277     | 24.3  | 19.6  | 29.4  |

Manual Integrations  
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