

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102119\  
 Data File : BN008287.D  
 Acq On : 21 Oct 2019 17:39  
 Operator : JU  
 Sample : K5178-05DL 5X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPE8DL

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Quant Time: Oct 22 00:13:13 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 : Mon Oct 21 23:58:15 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.59  | 152  | 1835     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.35 | 136  | 8327     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.22 | 164  | 5241     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.97 | 188  | 11106    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.18 | 240  | 10827    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.35 | 264  | 9179     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.96 | 152  | 825      | 0.06   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.01 | 212  | 3024     | 0.08   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 7) Acenaphthylene           | 13.94 | 152  | 1178     | 0.047  | ng/ul# | 86       |
| 12) Phenanthrene            | 17.01 | 178  | 6792     | 0.209  | ng/ul  | 98       |
| 13) Anthracene              | 17.11 | 178  | 1875     | 0.066  | ng/ul# | 89       |
| 15) Fluoranthene            | 19.04 | 202  | 15664    | 0.365  | ng/ul  | 96       |
| 17) Pyrene                  | 19.40 | 202  | 17531    | 0.407  | ng/ul  | 97       |
| 18) Benzo(a)anthracene      | 21.16 | 228  | 9408     | 0.239  | ng/ul  | 95       |
| 19) Chrysene                | 21.21 | 228  | 9840     | 0.204  | ng/ul  | 96       |
| 21) Benzo(b)fluoranthene    | 22.71 | 252  | 11495m   | 0.385  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.74 | 252  | 3464m    | 0.102  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.26 | 252  | 7889     | 0.251  | ng/ul  | 93       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.51 | 276  | 4543     | 0.123  | ng/ul# | 57       |
| 25) Dibenzo(a,h)anthracene  | 25.51 | 278  | 1022     | 0.035  | ng/ul# | 43       |
| 26) Benzo(g,h,i)perylene    | 26.16 | 276  | 4605     | 0.136  | ng/ul# | 90       |

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

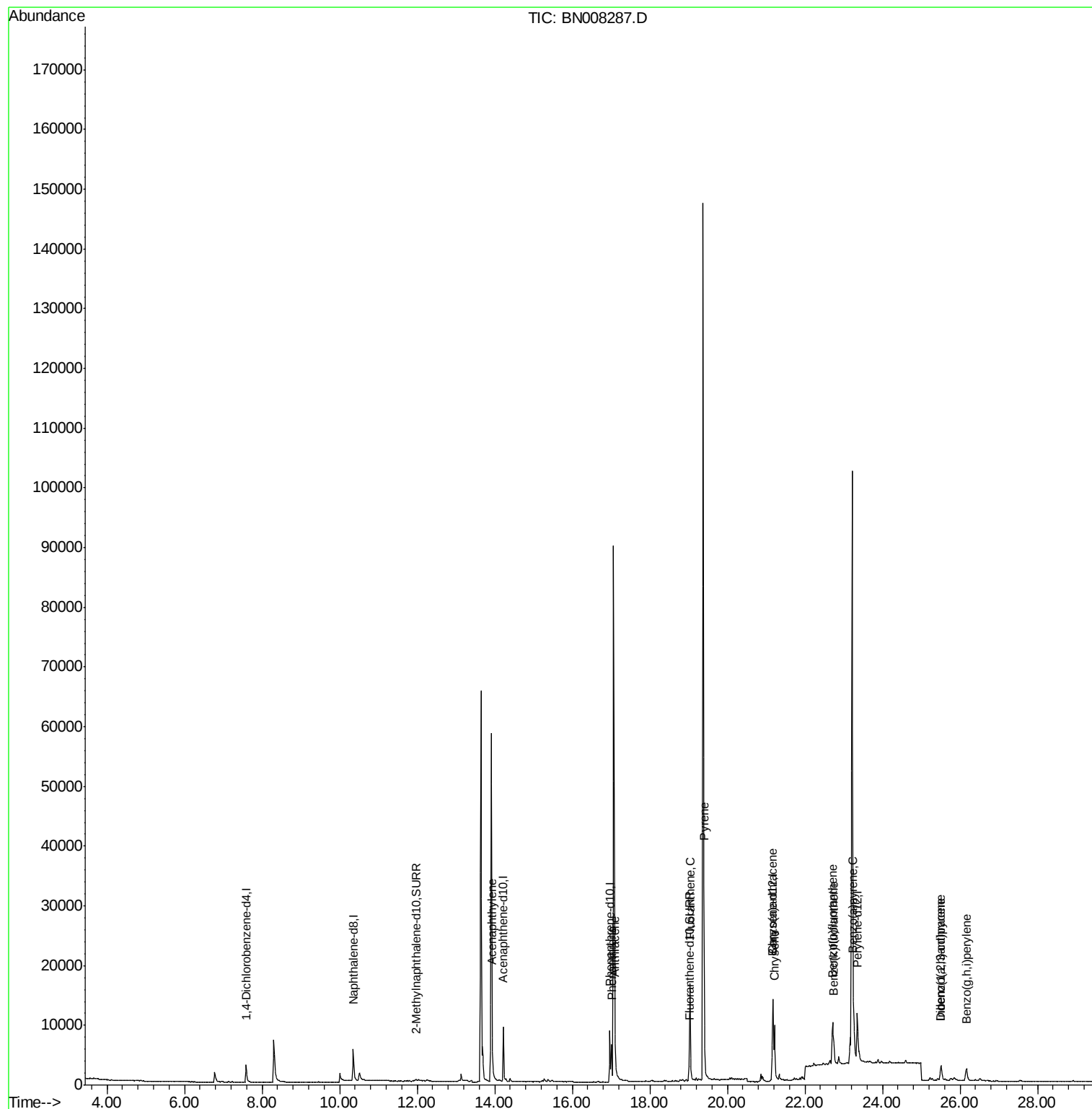
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN102119\  
Data File : BN008287.D  
Acq On : 21 Oct 2019 17:39  
Operator : JU  
Sample : K5178-05DL 5X  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

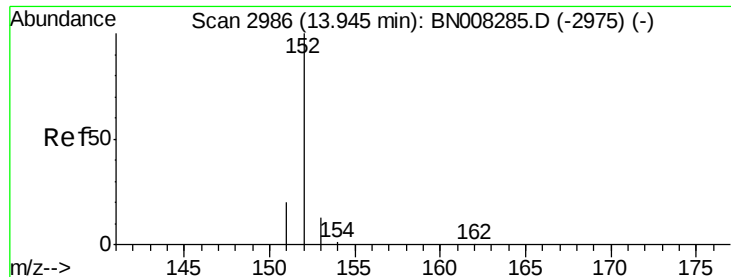
Instrument :  
BNA\_N  
ClientSampleId :  
BEPE8DL

Quant Time: Oct 22 00:13:13 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 : Mon Oct 21 23:58:15 2019  
Response via : Initial Calibration

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#7

Acenaphthylene

Concen: 0.047 ng/ul

RT: 13.94 min Scan# 2985

Delta R.T. -0.00 min

Lab File: BN008287.D

Acq: 21 Oct 2019 17:39

Instrument :

BNA\_N

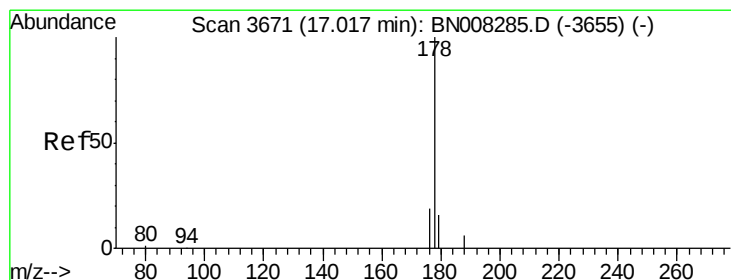
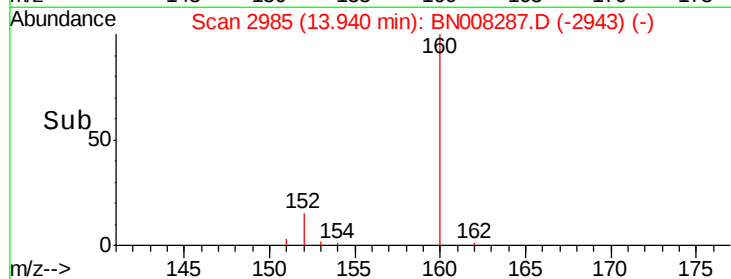
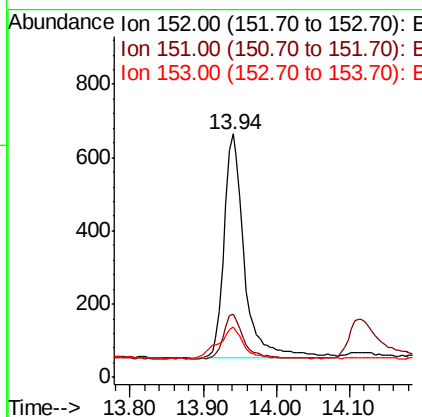
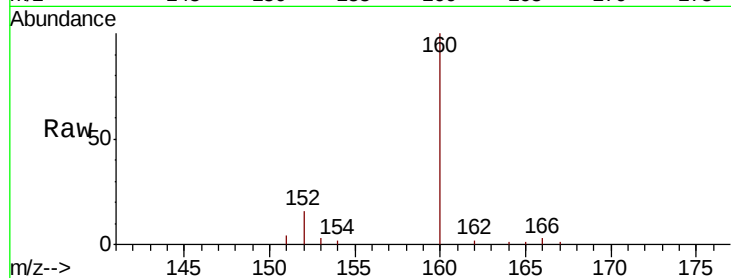
ClientSampleId :

BEPE8DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 1178  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 25.9  | 16.2  | 24.4# |
| 153       | 20.9  | 11.0  | 16.4# |

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#12

Phenanthrene

Concen: 0.209 ng/ul

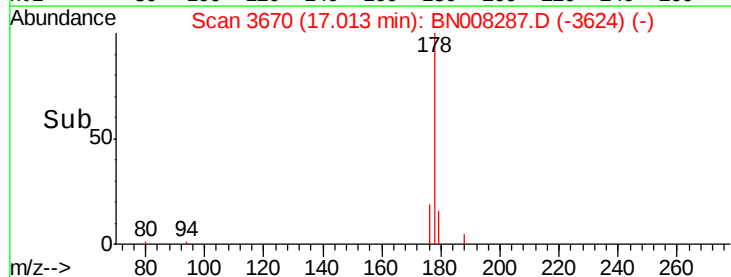
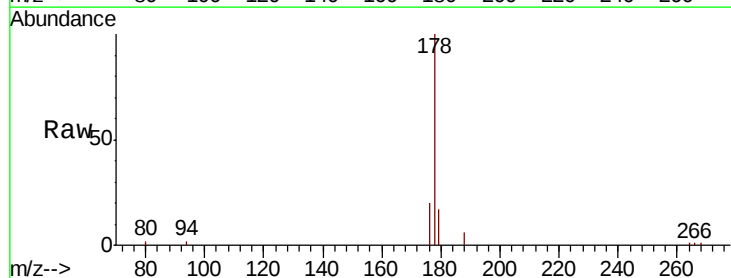
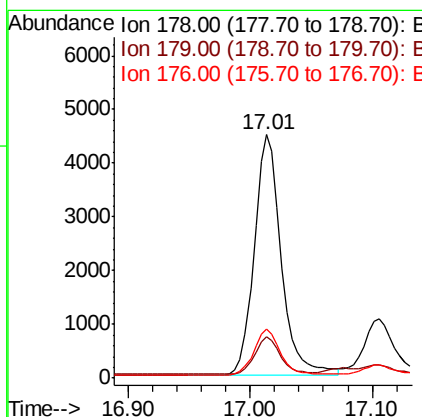
RT: 17.01 min Scan# 3670

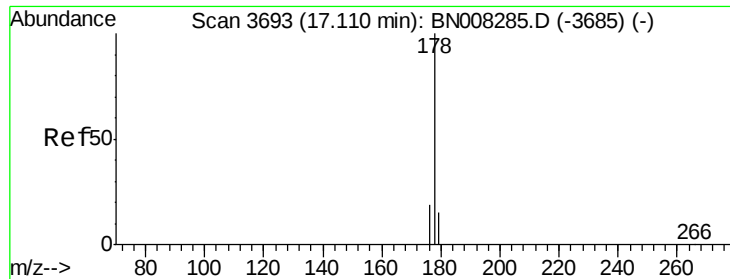
Delta R.T. -0.00 min

Lab File: BN008287.D

Acq: 21 Oct 2019 17:39

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 6792 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 16.8  | 12.8  | 19.2 |
| 176       | 19.9  | 15.4  | 23.2 |





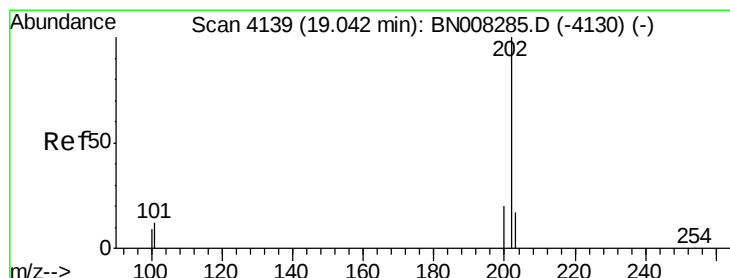
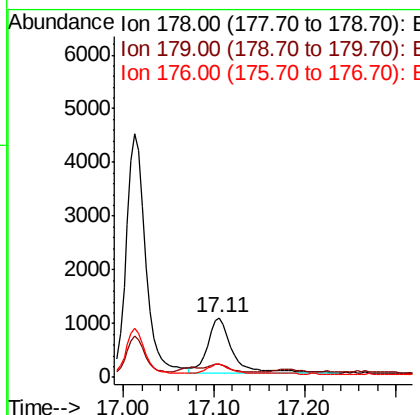
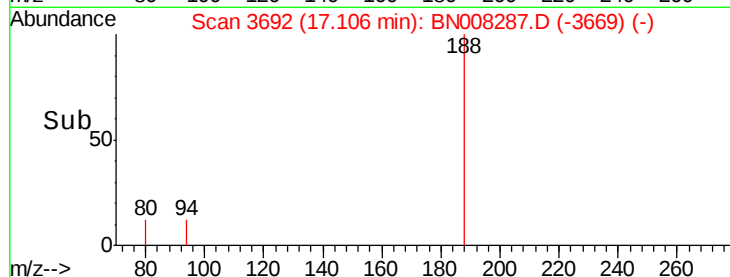
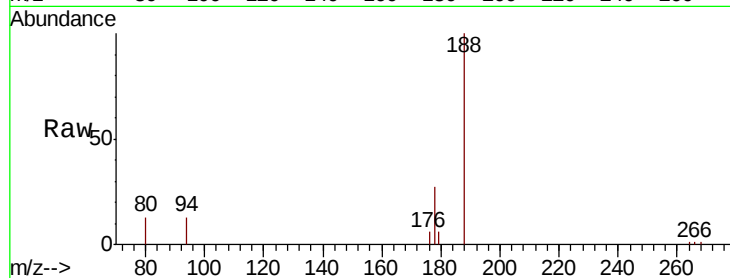
#13  
 Anthracene  
 Concen: 0.066 ng/ul  
 RT: 17.11 min Scan# 3692  
 Delta R.T. -0.00 min  
 Lab File: BN008287.D  
 Acq: 21 Oct 2019 17:39

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPE8DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 22.2  | 13.0  | 19.6# |
| 176     | 22.7  | 15.0  | 22.6# |

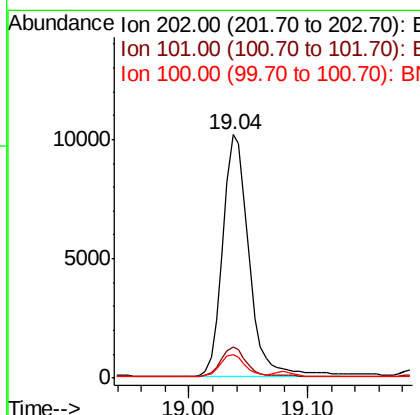
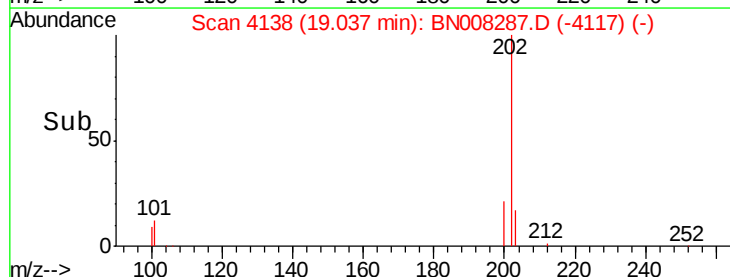
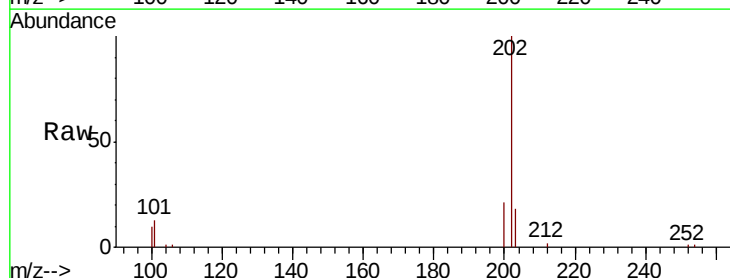
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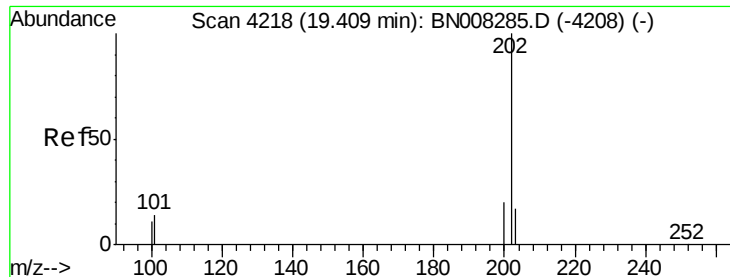
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#15  
 Fluoranthene  
 Concen: 0.365 ng/ul  
 RT: 19.04 min Scan# 4138  
 Delta R.T. -0.00 min  
 Lab File: BN008287.D  
 Acq: 21 Oct 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.6  | 0.0   | 31.2  |
| 100     | 9.7   | 0.0   | 28.5  |





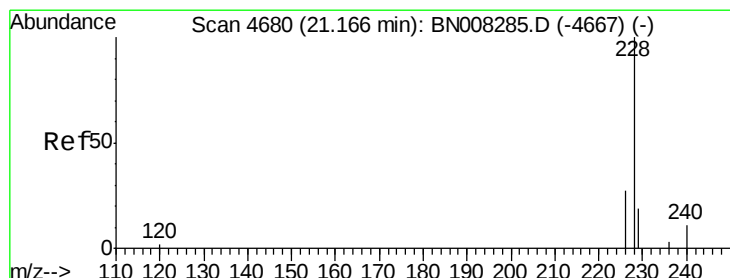
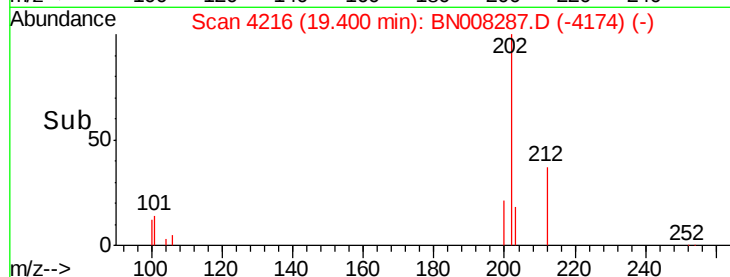
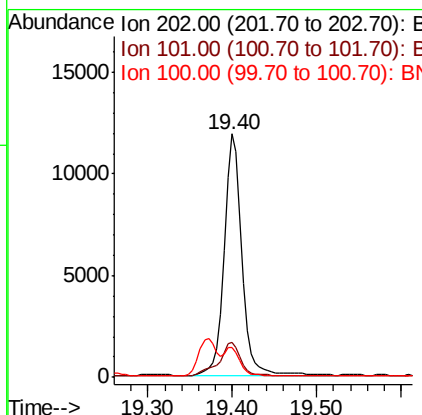
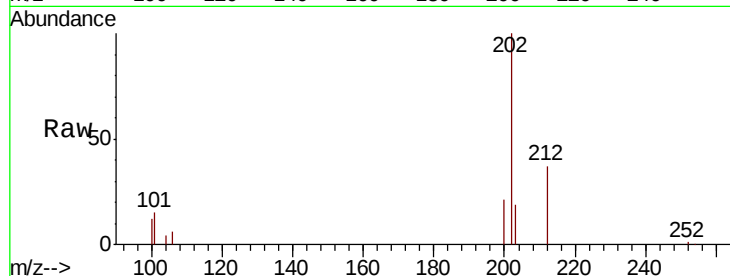
#17  
Pvrene  
Concen: 0.407 ng/ul  
RT: 19.40 min Scan# 4216  
Delta R.T. -0.00 min  
Lab File: BN008287.D  
Acq: 21 Oct 2019 17:39

Instrument :  
BNA\_N  
ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.6  | 10.9  | 16.3  |
| 100     | 12.4  | 8.7   | 13.1  |

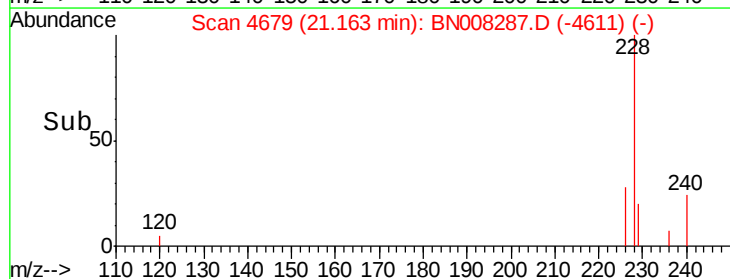
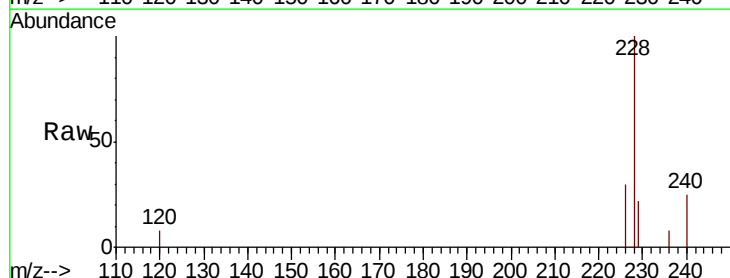
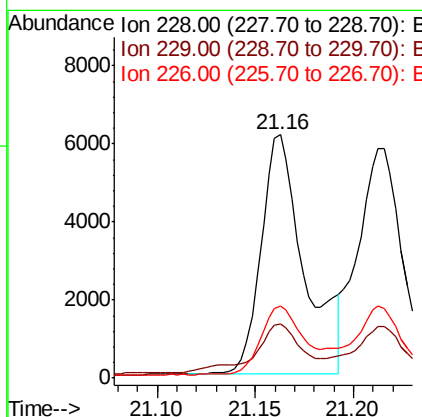
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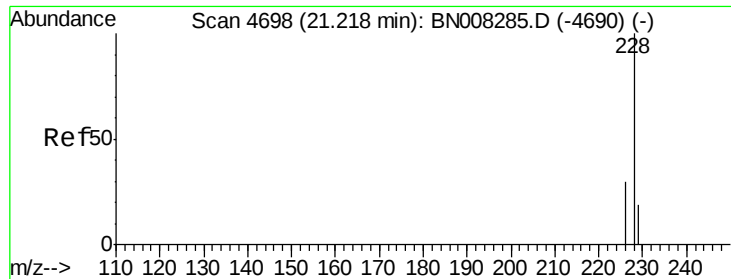
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#18  
Benzo(a)anthracene  
Concen: 0.239 ng/ul  
RT: 21.16 min Scan# 4679  
Delta R.T. -0.00 min  
Lab File: BN008287.D  
Acq: 21 Oct 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.3  | 16.2  | 24.2  |
| 226     | 29.7  | 21.4  | 32.0  |





#19

Chrysene

Concen: 0.204 ng/ul

RT: 21.21 min Scan# 4696

Delta R.T. -0.00 min

Lab File: BN008287.D

Acq: 21 Oct 2019 17:39

Instrument :

BNA\_N

ClientSampleId :

BEPE8DL

Tot Ion:228 Resp: 9840

Ion Ratio Lower Upper

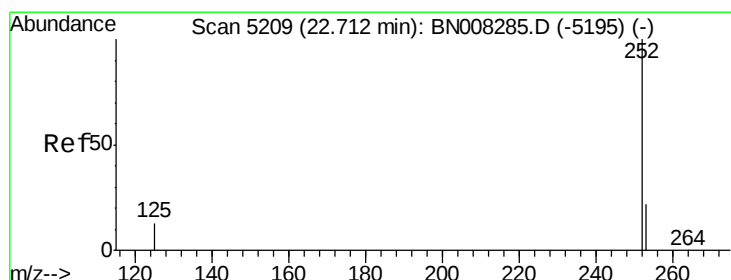
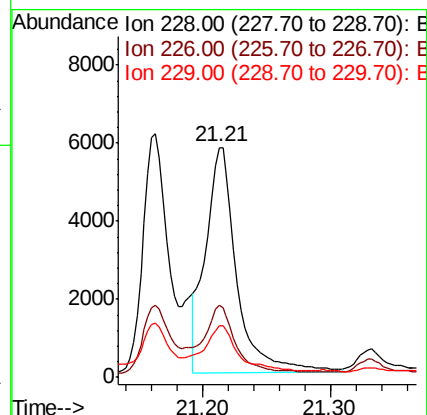
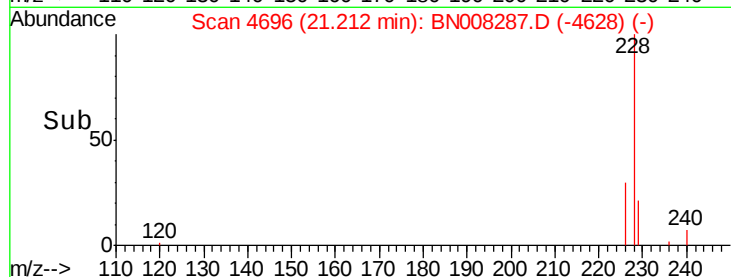
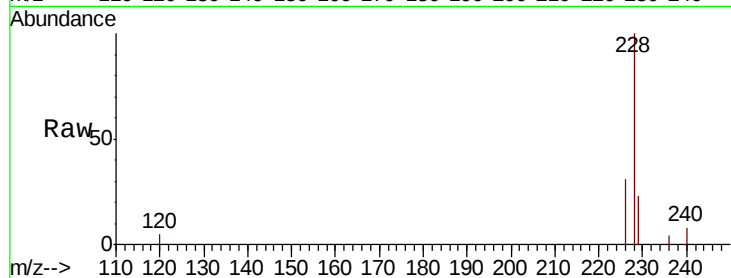
228 100

226 31.5 24.1 36.1

229 22.6 16.2 24.2

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#21

Benzo(b)fluoranthene

Concen: 0.385 ng/ul m

RT: 22.71 min Scan# 5209

Delta R.T. 0.00 min

Lab File: BN008287.D

Acq: 21 Oct 2019 17:39

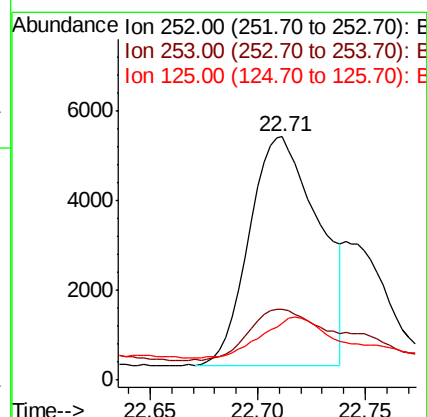
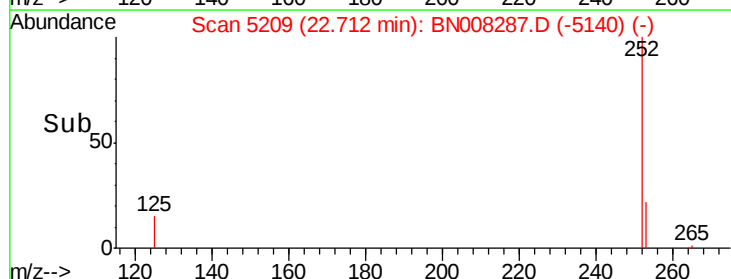
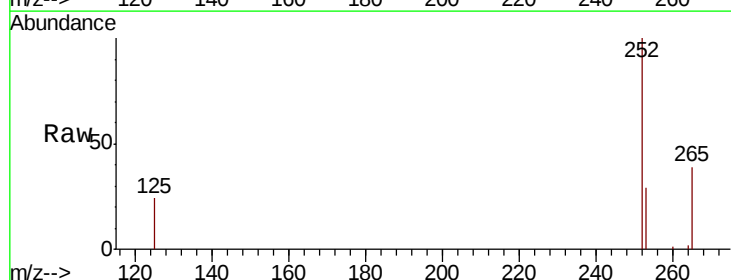
Tgt Ion:252 Resp: 11495

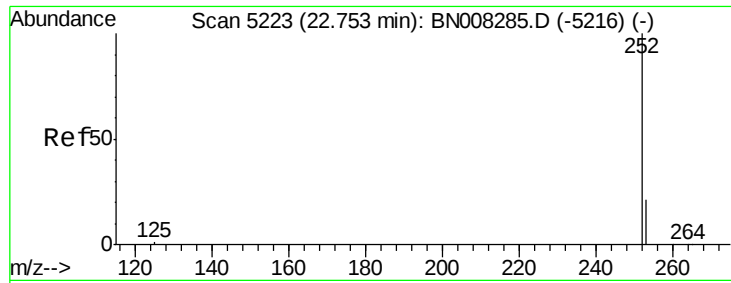
Ion Ratio Lower Upper

252 100

253 29.1 0.0 53.4

125 23.5 0.0 32.4





#22

Benzo(k)fluoranthene

Concen: 0.102 ng/ul m

RT: 22.74 min Scan# 5219

Delta R.T. -0.01 min

Lab File: BN008287.D

Acq: 21 Oct 2019 17:39

Instrument :

BNA\_N

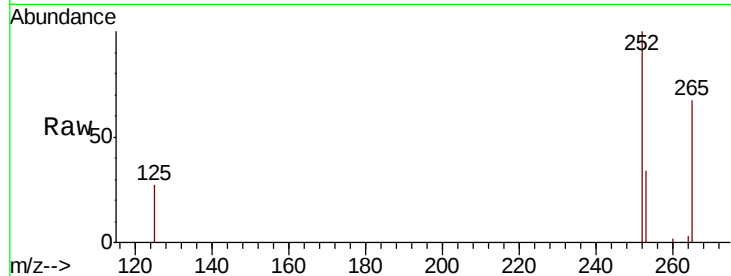
ClientSampleId :

BEPE8DL

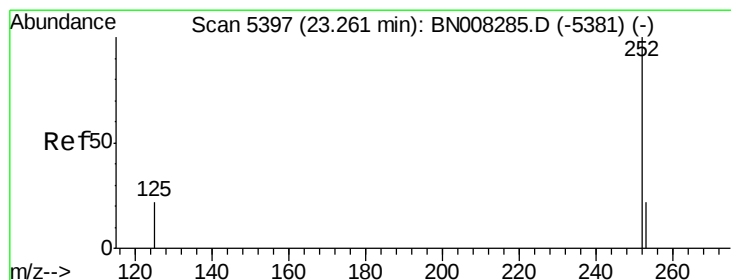
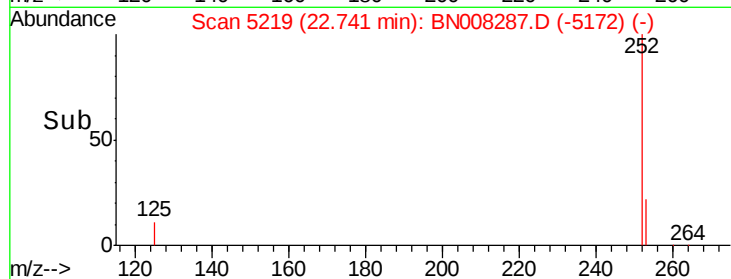
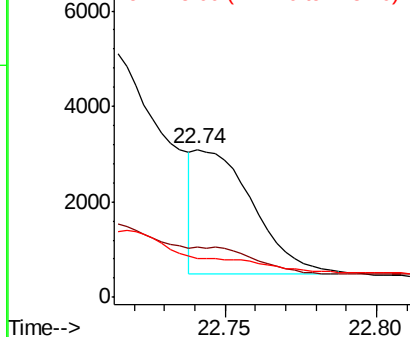
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 3464  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 34.3  | 21.3  | 31.9# |
| 125       | 26.6  | 12.3  | 18.5# |

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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: 0.251 ng/ul

RT: 23.26 min Scan# 5395

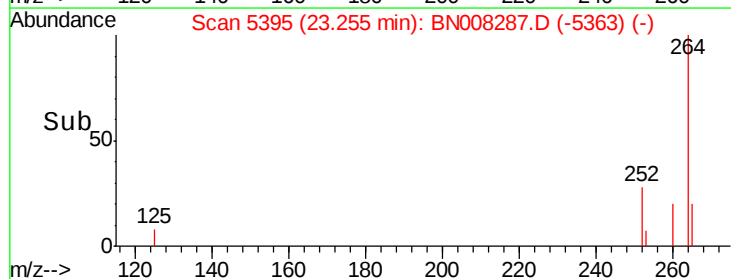
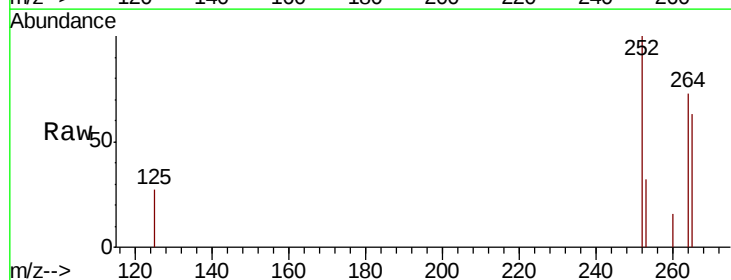
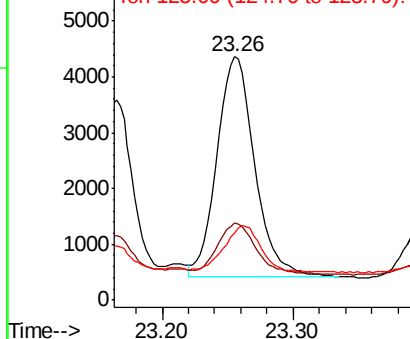
Delta R.T. -0.01 min

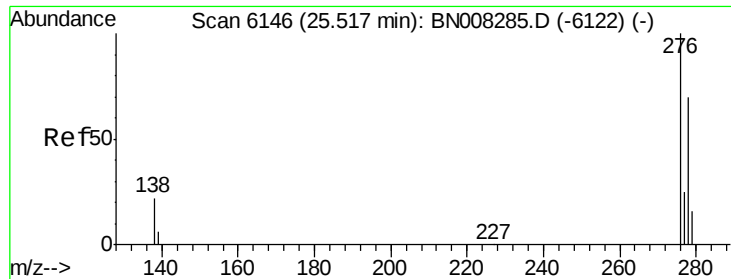
Lab File: BN008287.D

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|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 7889 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 31.5  | 22.8  | 34.2 |
| 125       | 27.5  | 18.4  | 27.6 |

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





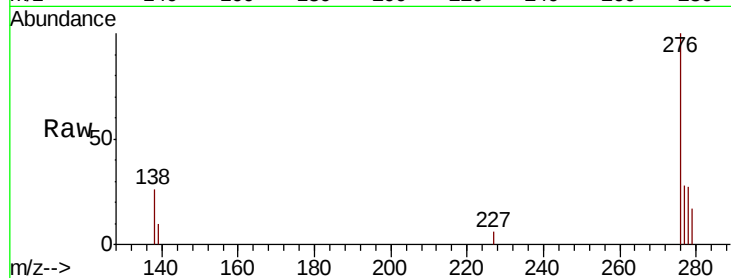
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.123 ng/ul  
RT: 25.51 min Scan# 6144  
Delta R.T. 0.00 min  
Lab File: BN008287.D  
Acq: 21 Oct 2019 17:39

Instrument :  
BNA\_N  
ClientSampleId :  
BEPE8DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 0.0   | 16.1  | 24.1# |
| 227     | 0.1   | 0.2   | 0.2#  |

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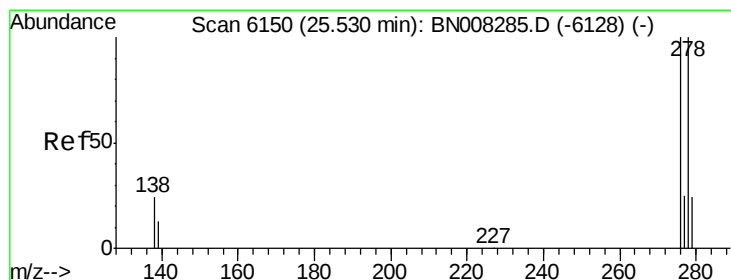
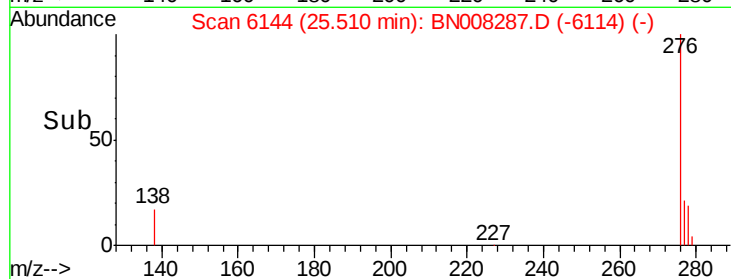
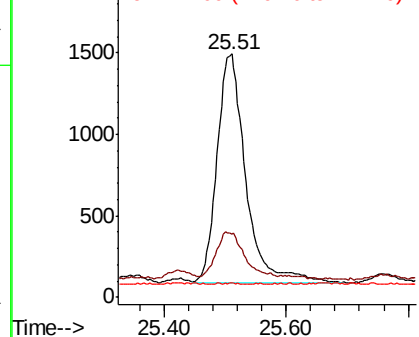


Abundance

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: 0.035 ng/ul  
RT: 25.51 min Scan# 6144  
Delta R.T. -0.01 min  
Lab File: BN008287.D  
Acq: 21 Oct 2019 17:39

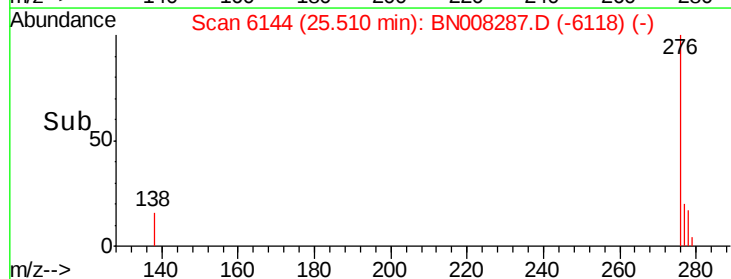
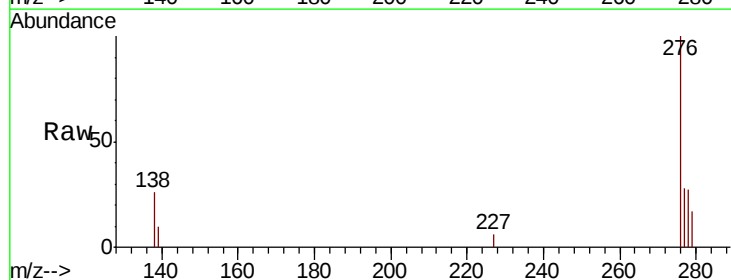
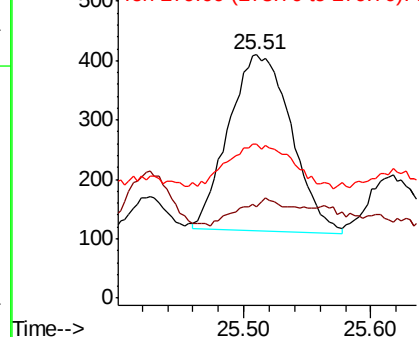
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 37.8  | 15.0  | 22.6# |
| 279     | 63.2  | 22.4  | 33.6# |

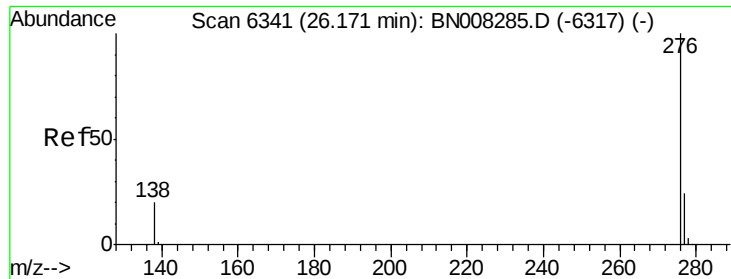
Abundance

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: 0.136 ng/ul  
 RT: 26.16 min Scan# 6339  
 Delta R.T. -0.00 min  
 Lab File: BN008287.D  
 Acq: 21 Oct 2019 17:39

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BEPE8DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.6  | 17.0  | 25.4# |
| 277     | 28.8  | 20.4  | 30.6  |

Manual Integrations  
 APPROVED

mohammad  
 10/22/2019 3:27:28 PM

