

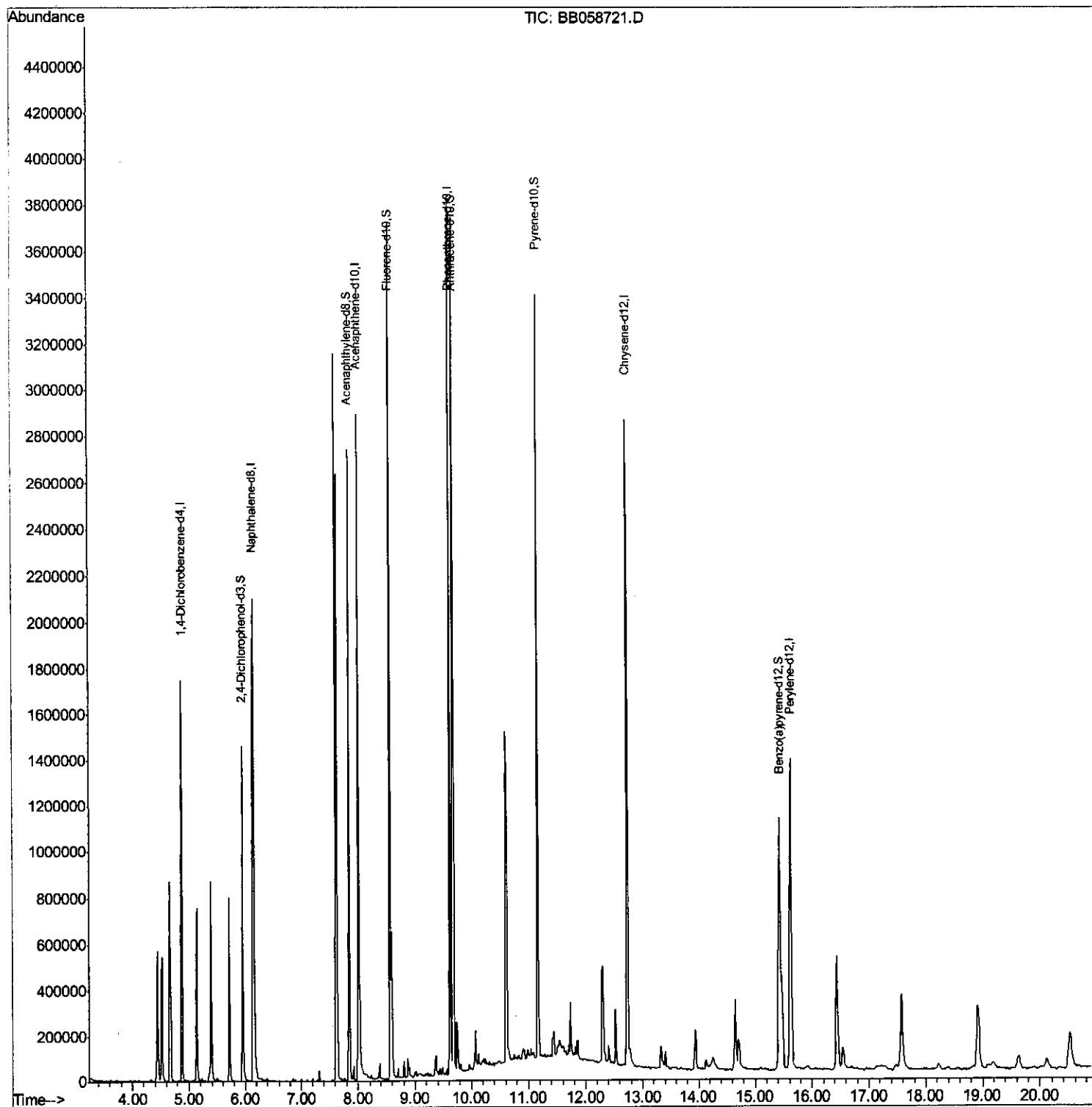
Data Path : Z:\HPCHEM1\BNA B\DATA\BB030917\  
Data File : BB058721.D  
Acq On : 9 Mar 2017 20:08  
Operator : UM/SJ  
Sample : I2107-15  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_B  
ClientSampleId :  
COAL0

Manual Integrations  
APPROVED

mohammad  
3/15/2017 5:09:07 PM

Quant Time: Mar 15 15:48:31 2017  
Quant Method : Z:\HPCHEM1\BNA B\METHOD\SOM-EPA-BB030917-PAH.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Mar 15 14:21:30 2017  
Response via : Initial Calibration



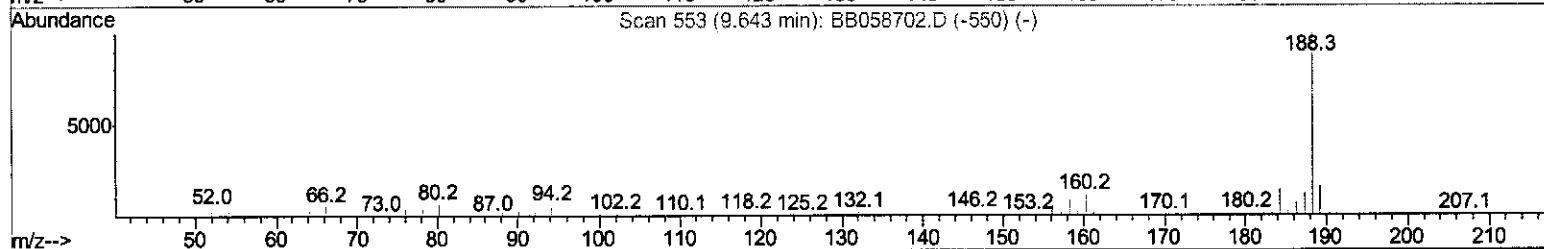
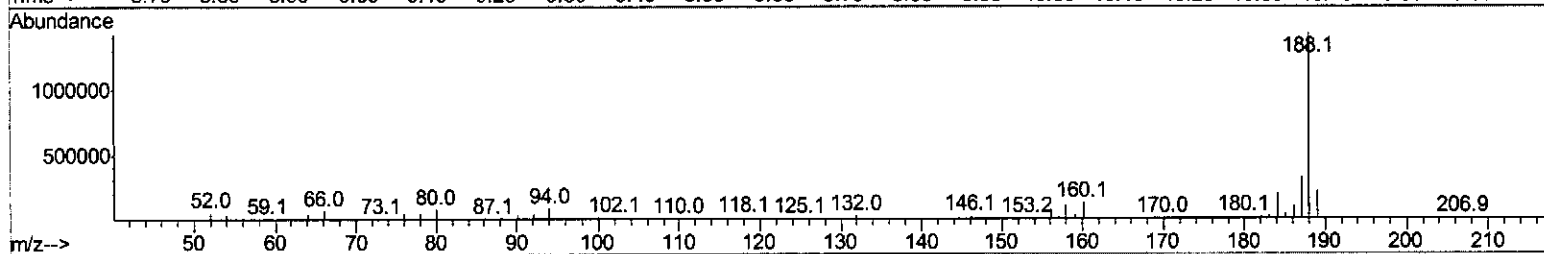
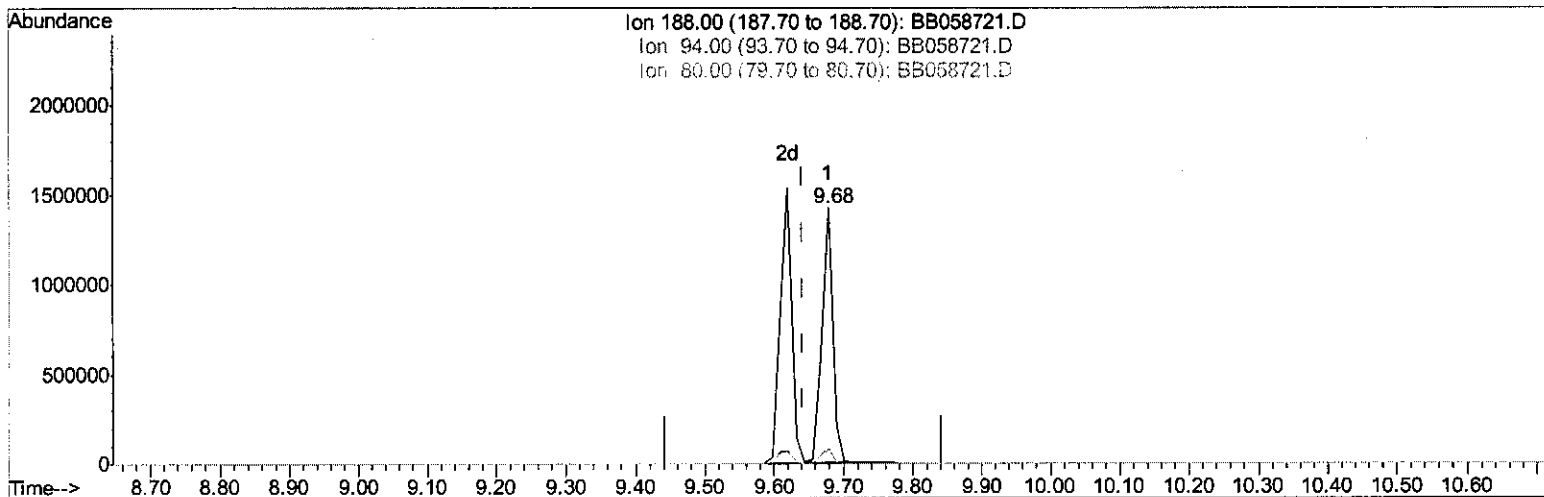
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Manual Integrations  
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mohammad  
3/15/2017 5:09:07 PM

Quant Time: Mar 15 15:47:29 2017  
Quant Method : Z:\HPCHEM1\BNA B\METHOD\SOM-EPA-BB030917-PAH.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Mar 15 14:21:30 2017  
Response via : Initial Calibration



TIC: BB058721.D

(12) Phenanthrene-d10 (I)

9.678min (+0.036) 20.00ng/ui

response 1532341

| Ion    | Exp% | Act% |
|--------|------|------|
| 188.00 | 100  | 100  |
| 94.00  | 5.70 | 6.08 |
| 80.00  | 6.50 | 5.30 |
| 0.00   | 0.00 | 0.00 |

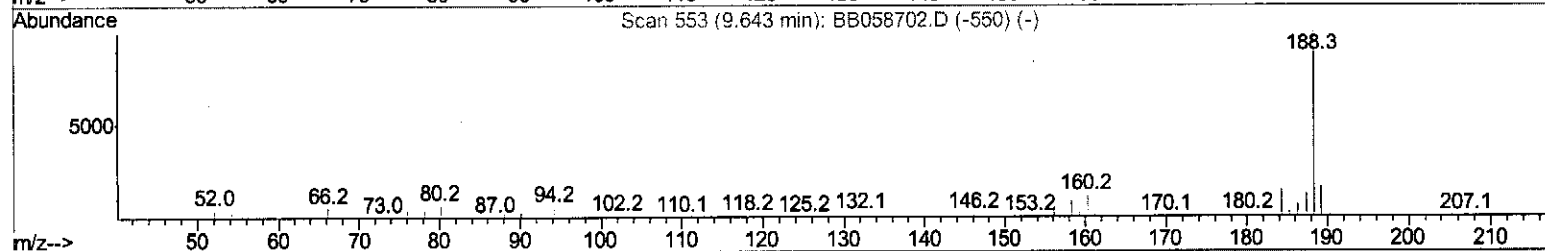
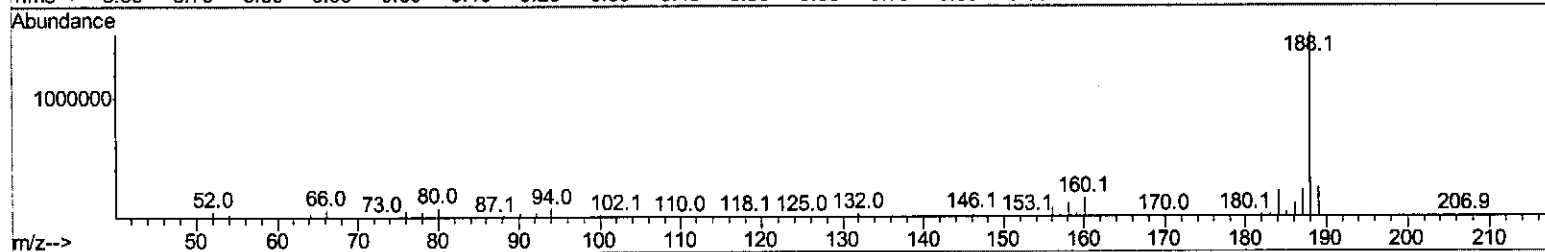
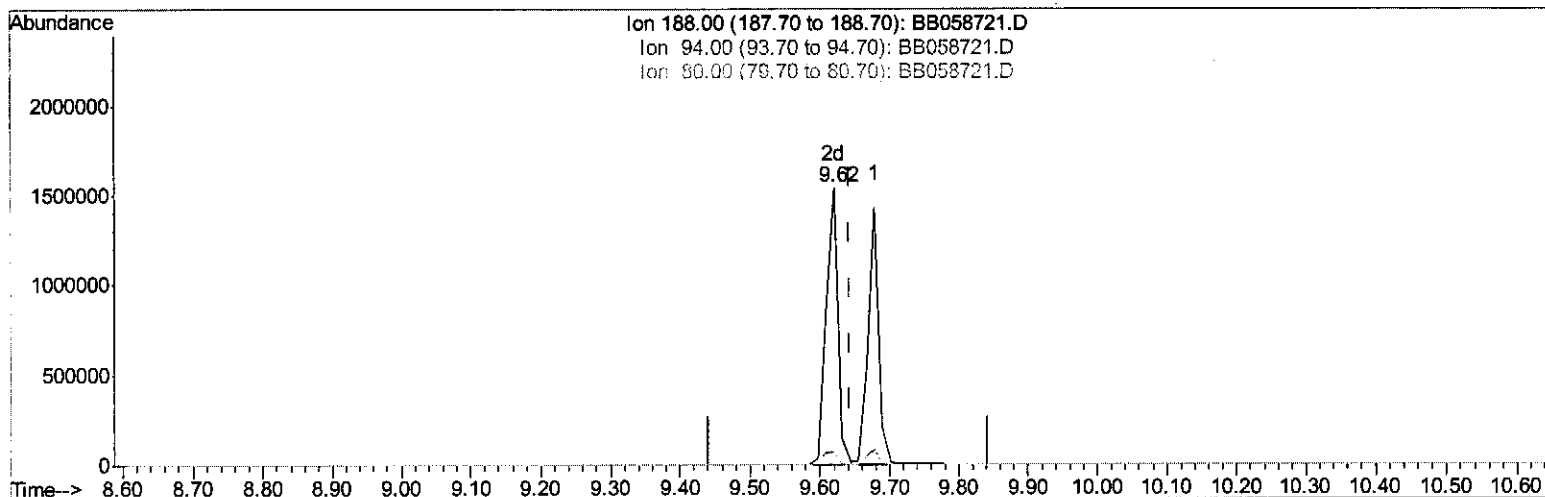
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Sample : I2107-15  
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Instrument :  
BNA\_B  
ClientSampleId :  
COAL0

Manual Integrations  
APPROVED

mohammad  
3/15/2017 5:09:07 PM

Quant Time: Mar 15 15:47:29 2017  
Quant Method : Z:\HPCHEM1\BNA B\METHOD\SOM-EPA-BB030917-PAH.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Mar 15 14:21:30 2017  
Response via : Initial Calibration



TIC: BB058721.D

(12) Phenanthrene-d10 (I)

9.620min (-0.022) 20.00ng/ul m

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response 1789055

| Ion    | Exp% | Act%  |
|--------|------|-------|
| 188.00 | 100  | 100   |
| 94.00  | 5.70 | 4.68  |
| 80.00  | 6.50 | 4.91# |
| 0.00   | 0.00 | 0.00  |

Data Path : Z:\HPCHEM1\BNA B\DATA\BB030917\  
 Data File : BB058721.D  
 Acq On : 9 Mar 2017 20:08  
 Operator : UM/SJ  
 Sample : I2107-15  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_B  
 ClientSampleId :  
 COAL0

Manual Integrations  
 APPROVED

mohammad  
 3/15/2017 5:09:07 PM

Quant Time: Mar 15 15:48:31 2017  
 Quant Method : Z:\HPCHEM1\BNA B\METHOD\SOM-EPA-BB030917-PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Mar 15 14:21:30 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 4.87  | 152  | 339529   | 20.00 | ng/ul | -0.02    |
| 2) Naphthalene-d8         | 6.15  | 136  | 1243696  | 20.00 | ng/ul | -0.02    |
| 6) Acenaphthene-d10       | 8.01  | 164  | 858261   | 20.00 | ng/ul | -0.03    |
| 12) Phenanthrene-d10      | 9.62  | 188  | 1789055m | 20.00 | ng/ul | -0.02    |
| 18) Chrysene-d12          | 12.73 | 240  | 1677588  | 20.00 | ng/ul | -0.05    |
| 23) Perylene-d12          | 15.63 | 264  | 1309782  | 20.00 | ng/ul | -0.06    |

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| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 3) 2,4-Dichlorophenol-d3    | 5.95  | 165  | 345235   | 14.57 | ng/uL | -0.03    |
| 7) Acenaphthylene-d8        | 7.84  | 160  | 1382745  | 20.68 | ng/ul | -0.03    |
| 10) Fluorene-d10            | 8.56  | 176  | 1054942  | 19.41 | ng/ul | -0.02    |
| 15) Anthracene-d10          | 9.68  | 188  | 1532341  | 19.25 | ng/ul | -0.02    |
| 19) Pyrene-d10              | 11.16 | 212  | 1550119  | 20.32 | ng/ul | -0.03    |
| 26) Benzo(a)pyrene-d12      | 15.43 | 264  | 1057663  | 18.05 | ng/ul | -0.06    |

| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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