

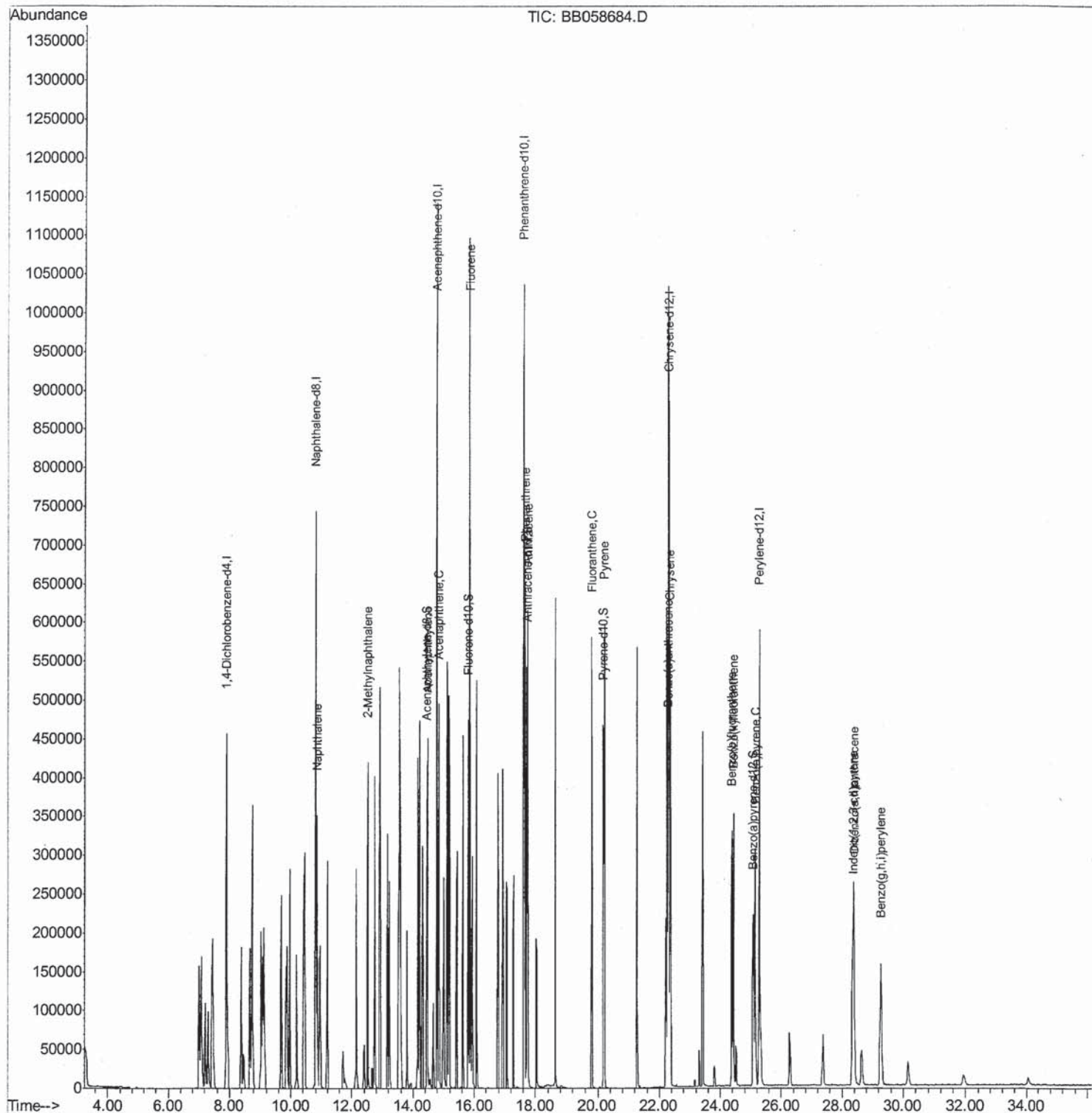
Data Path : Z:\HPCHEM1\BNA B\DATA\BB030317\  
Data File : BB058684.D  
Acq On : 3 Mar 2017 13:13  
Operator : UM/SJ  
Sample : SSTD01077  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_B  
ClientSampleId :  
SSTD01077

Manual Integrations  
APPROVED

mohammad  
3/6/2017 3:16:20 PM

Quant Time: Mar 03 15:37:29 2017  
Quant Method : Z:\HPCHEM1\BNA B\METHOD\SOM-EPA-BB030317-PAH.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Mar 03 14:56:52 2017  
Response via : Initial Calibration



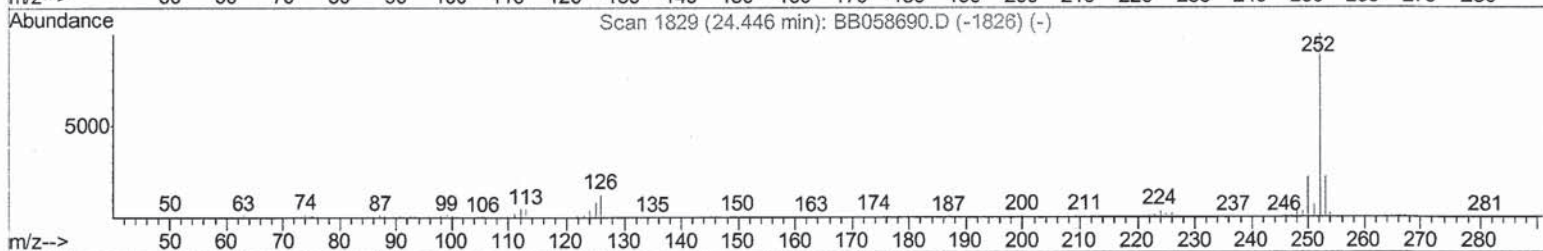
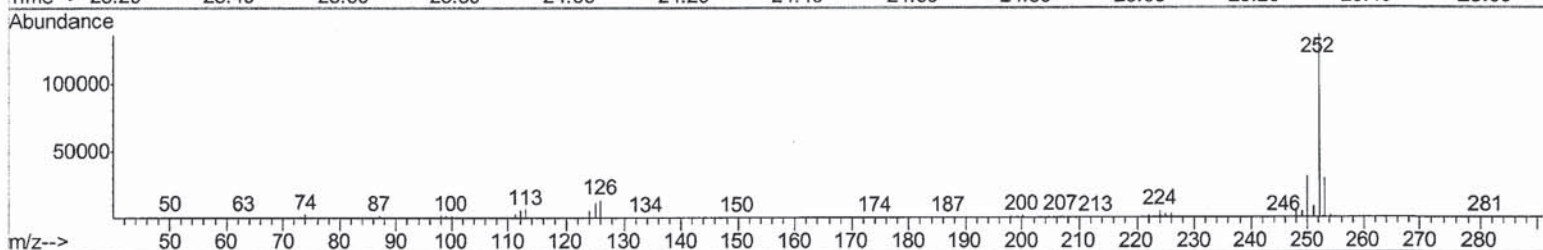
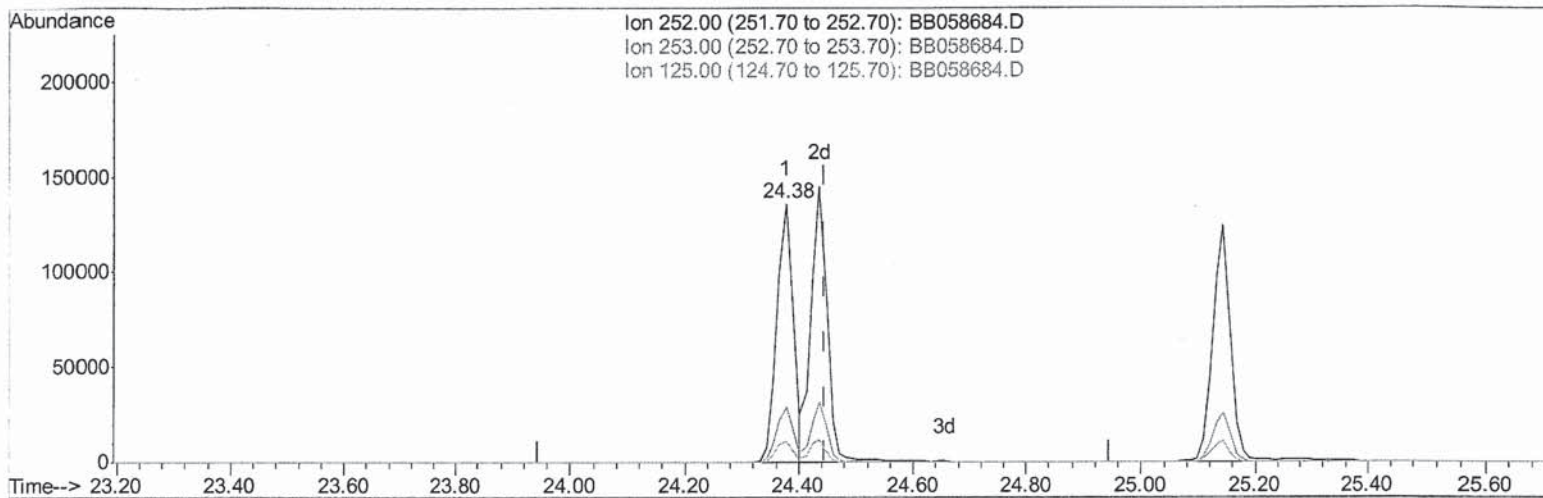
Data Path : Z:\HPCHEM1\BNA\_B\Data\BB030317\  
Data File : BB058684.D  
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Manual Integrations  
APPROVED

mohammad  
3/6/2017 3:16:20 PM

Quant Time: Mar 06 06:26:22 2017  
Quant Method : Z:\HPCHEM1\BNA\_B\METHOD\SOM-EPA-BB030317-PAH.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Mar 04 01:12:42 2017  
Response via : Initial Calibration



TIC: BB058684.D

(23) Benzo(k)fluoranthene

24.378min (-0.068) 9.65ng/ul

response 272018

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 22.50 | 21.49 |
| 125.00 | 10.10 | 8.45  |
| 0.00   | 0.00  | 0.00  |

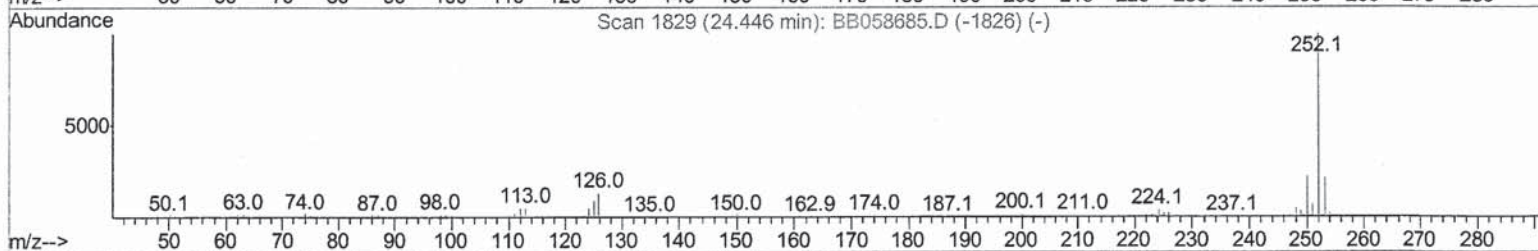
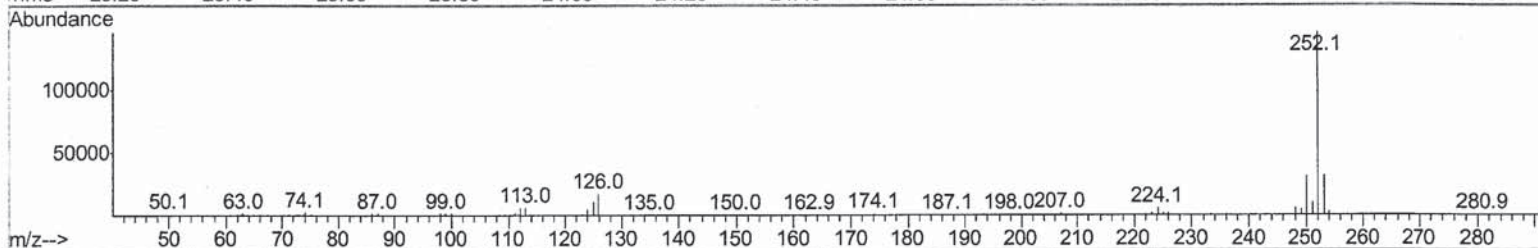
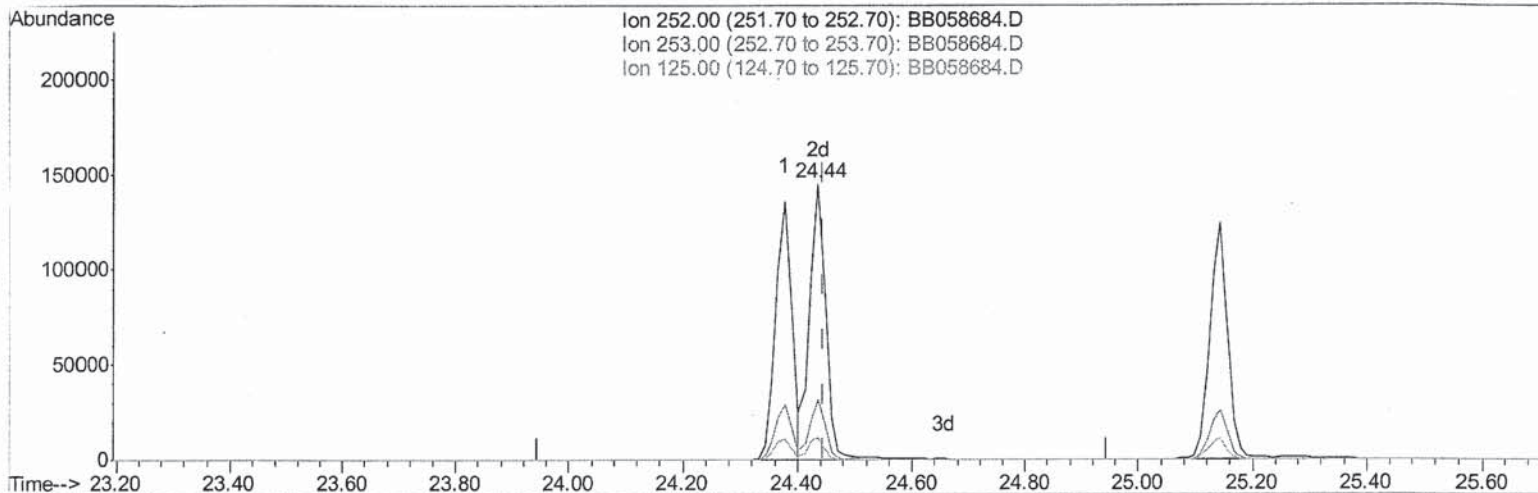
Data Path : Z:\HPCHEM1\BNA B\DATA\BB030317\  
Data File : BB058684.D  
Acq On : 3 Mar 2017 13:13  
Operator : UM/SJ  
Sample : SSTD01077  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_B  
ClientSampleId :  
SSTD01077

Manual Integrations  
APPROVED

mohammad  
3/6/2017 3:16:20 PM

Quant Time: Mar 03 15:37:29 2017  
Quant Method : Z:\HPCHEM1\BNA B\METHOD\SOM-EPA-BB030317-PAH.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Mar 03 14:56:52 2017  
Response via : Initial Calibration



TIC: BB058684.D

(23) Benzo(k)fluoranthene

24.436min (-0.010) 10.01ng/ul m *SJ 3/8/17*

response 276966

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 22.50 | 22.02 |
| 125.00 | 10.10 | 7.98# |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\HPCHEM1\BNA B\DATA\BB030317\  
 Data File : BB058684.D  
 Acq On : 3 Mar 2017 13:13  
 Operator : UM/SJ  
 Sample : SSTD01077  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_B  
 ClientSampleId :  
 SSTD01077

Manual Integrations  
 APPROVED

mohammad  
 3/6/2017 3:16:20 PM

Quant Time: Mar 03 15:37:29 2017  
 Quant Method : Z:\HPCHEM1\BNA B\METHOD\SOM-EPA-BB030317-PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 03 14:56:52 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.90  | 152  | 169469   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.80 | 136  | 574902   | 20.00 | ng/ul | 0.00     |
| 5) Acenaphthene-d10       | 14.78 | 164  | 394380   | 20.00 | ng/ul | 0.00     |
| 11) Phenanthrene-d10      | 17.62 | 188  | 647270   | 20.00 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 22.32 | 240  | 545200   | 20.00 | ng/ul | 0.00     |
| 21) Perylene-d12          | 25.28 | 264  | 531350   | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                        |       |     |        |      |       |       |
|------------------------|-------|-----|--------|------|-------|-------|
| 6) Acenaphthylene-d8   | 14.46 | 160 | 306720 | 9.36 | ng/ul | 0.00  |
| 9) Fluorene-d10        | 15.80 | 176 | 208124 | 8.38 | ng/ul | -0.01 |
| 13) Anthracene-d10     | 17.73 | 188 | 282298 | 9.02 | ng/ul | 0.00  |
| 17) Pyrene-d10         | 20.18 | 212 | 265895 | 9.88 | ng/ul | -0.01 |
| 24) Benzo(a)pyrene-d12 | 25.07 | 264 | 217595 | 9.24 | ng/ul | -0.02 |

## Target Compounds

|                            |       |     |          |             | Ovalue |
|----------------------------|-------|-----|----------|-------------|--------|
| 3) Naphthalene             | 10.85 | 128 | 256546   | 8.46 ng/ul  | 100    |
| 4) 2-Methylnaphthalene     | 12.52 | 142 | 189615   | 9.11 ng/ul  | 95     |
| 7) Acenaphthylene          | 14.48 | 152 | 289041   | 9.27 ng/ul  | 98     |
| 8) Acenaphthene            | 14.84 | 153 | 194734   | 9.04 ng/ul  | 91     |
| 10) Fluorene               | 15.86 | 166 | 250580   | 9.50 ng/ul  | 88     |
| 12) Phenanthrene           | 17.67 | 178 | 352679   | 9.67 ng/ul  | 98     |
| 14) Anthracene             | 17.76 | 178 | 350963   | 9.25 ng/ul  | 98     |
| 15) Fluoranthene           | 19.81 | 202 | 345668   | 9.52 ng/ul# | 88     |
| 18) Pyrene                 | 20.21 | 202 | 351152   | 9.98 ng/ul# | 88     |
| 19) Benzo(a)anthracene     | 22.29 | 228 | 295736   | 9.92 ng/ul  | 98     |
| 20) Chrysene               | 22.36 | 228 | 266162   | 9.53 ng/ul  | 97     |
| 22) Benzo(b)fluoranthene   | 24.38 | 252 | 272018   | 8.72 ng/ul  | 97     |
| 23) Benzo(k)fluoranthene   | 24.44 | 252 | 276966m) | 10.01 ng/ul | 97     |
| 25) Benzo(a)pyrene         | 25.14 | 252 | 264463   | 9.16 ng/ul  | 98     |
| 26) Indeno(1,2,3-cd)pyrene | 28.35 | 276 | 306088   | 9.27 ng/ul# | 95     |
| 27) Dibenzo(a,h)anthracene | 28.38 | 278 | 260045   | 9.31 ng/ul  | 96     |
| 28) Benzo(a,h,i)perylene   | 29.27 | 276 | 259880   | 9.40 ng/ul  | 98     |

SJ 3/8/17

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