

(QT Reviewed)

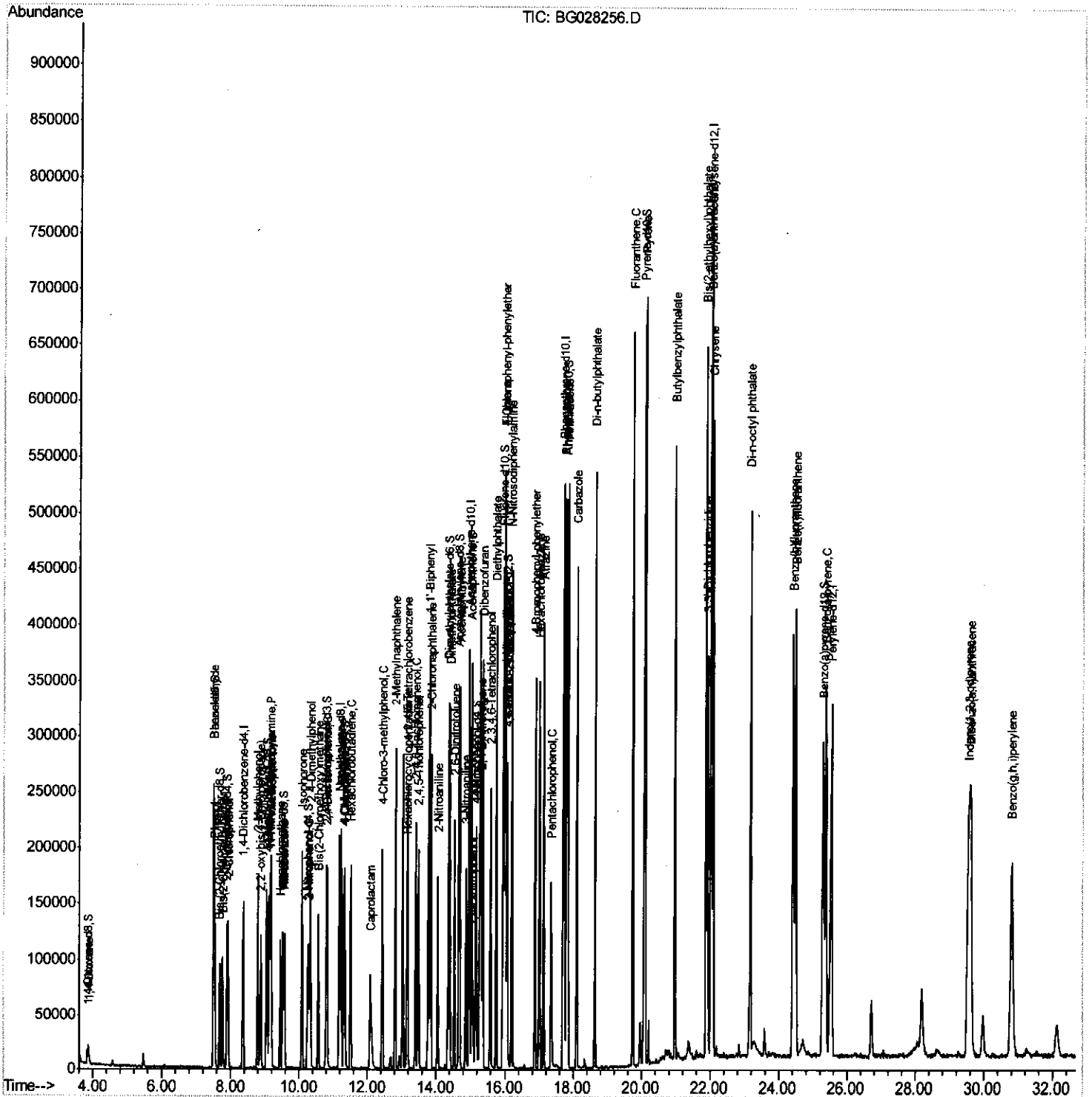
```
Data Path : Z:\HPCHEM1\BNA G\DATA\BG081017\  
Data File : BG028256.D  
Acq On    : 10 Aug 2017 13:17  
Operator  : SJ/JU  
Sample    : SSTDCCC020  
Misc      :  
ALS Vial  : 2      Sample Multiplier: 1
```

**Instrument :**  
BNA\_G  
**LabSampleId :**  
SSTD02060

## Manual Integrations

Sohil  
8/14/2017 4:02:03 PM

Quant Time: Aug 11 01:03:18 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 10 07:27:12 2017  
Response via : Initial Calibration



# Quantitation Report (Qedit)

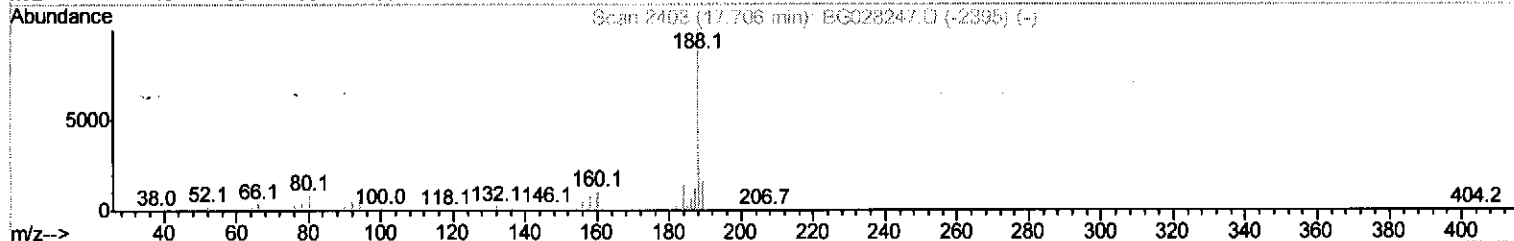
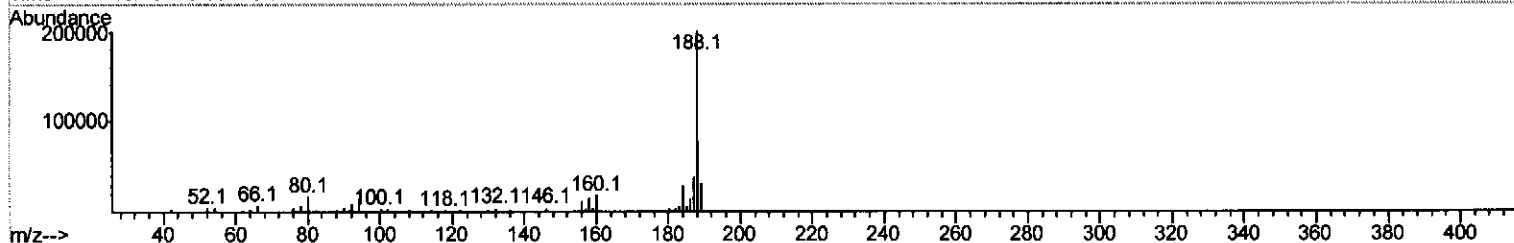
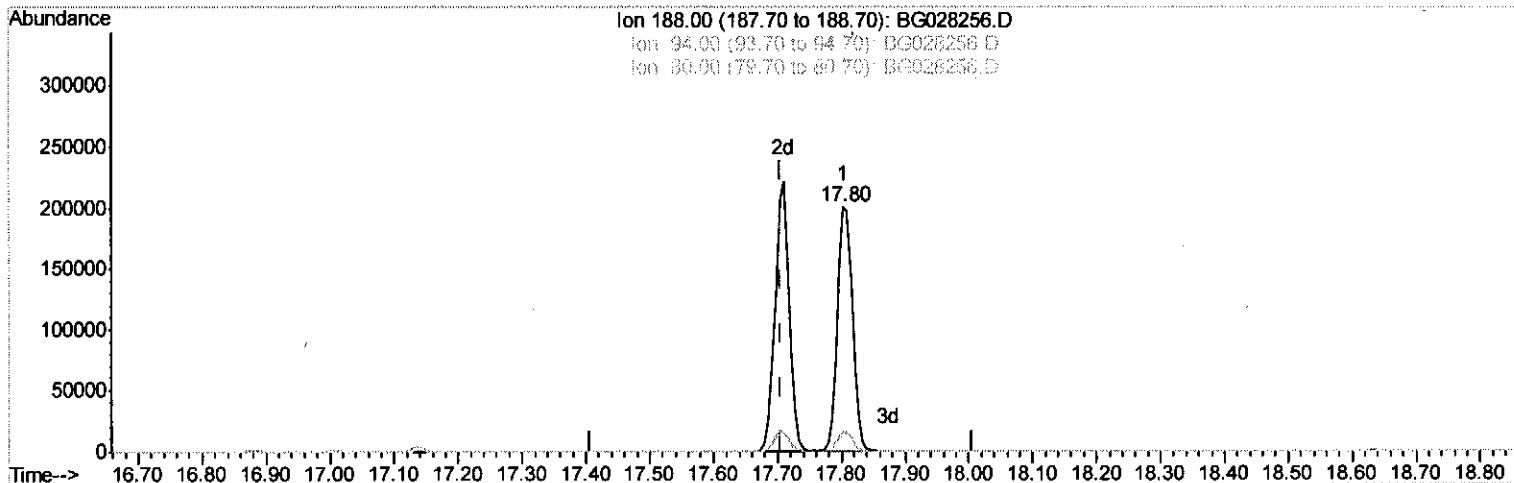
Data Path : Z:\HPCHEM1\BNA G\DATA\BG081017\  
 Data File : BG028256.D  
 Acq On : 10 Aug 2017 13:17  
 Operator : SJ/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 Lab Sample ID :  
 SSTD02060

Manual Integrations  
 APPROVED

Sohil  
 8/14/2017 4:02:03 PM

Quant Time: Aug 11 00:56:15 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 10 07:27:12 2017  
 Response via : Initial Calibration



TIC: BG028256.D

(61) Phenanthrene-d10 (I)

17.803min (+0.097) 20.00ng/ul

response 316442

| Ion    | Exp% | Act% |
|--------|------|------|
| 188.00 | 100  | 100  |
| 94.00  | 8.80 | 7.89 |
| 80.00  | 9.50 | 8.22 |
| 0.00   | 0.00 | 0.00 |

## Quantitation Report (Qedit)

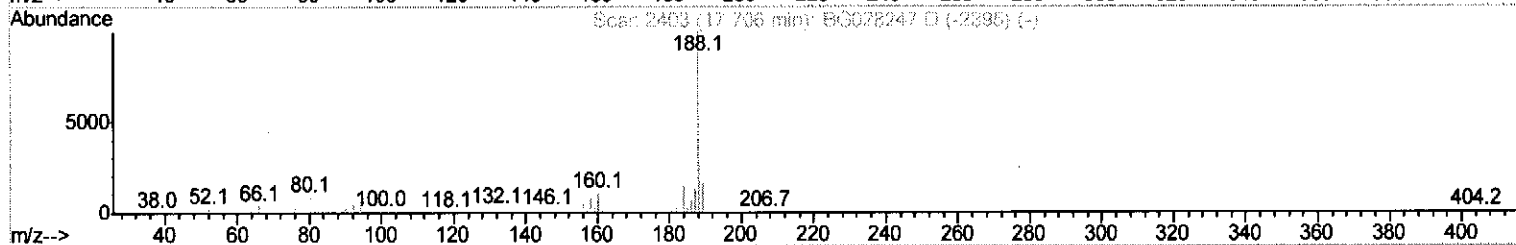
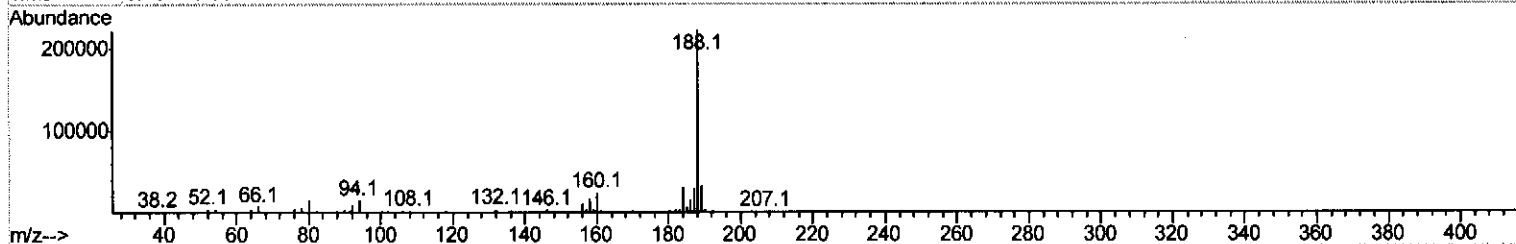
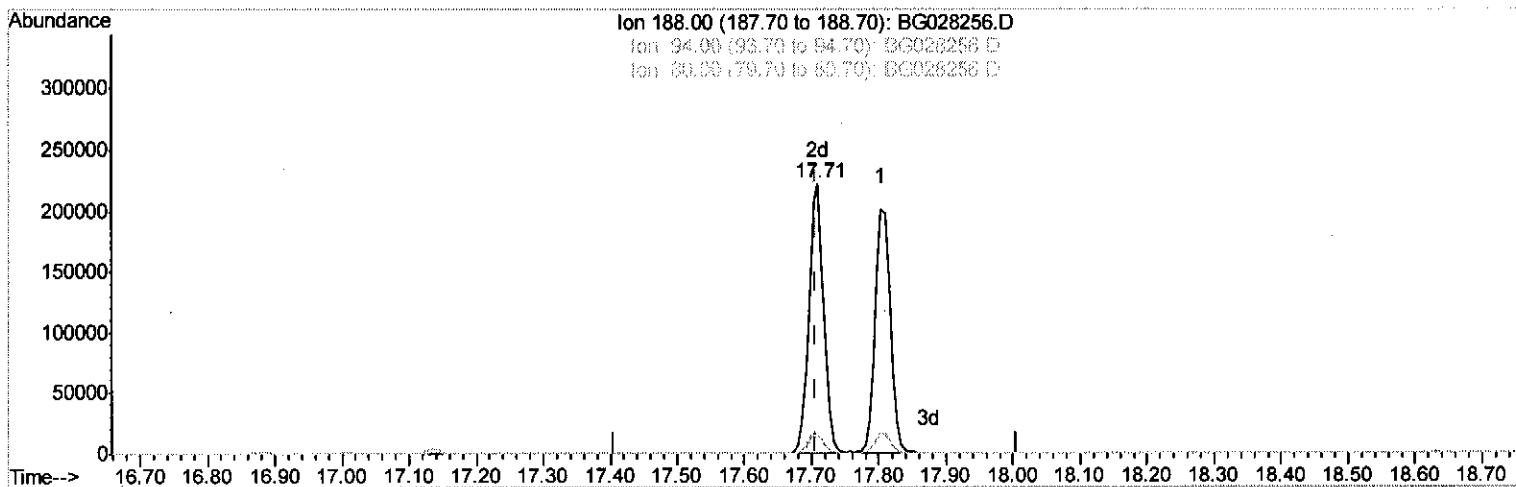
Data Path : Z:\HPCHEM1\BNA G\DATA\BG081017\  
Data File : BG028256.D  
Acq On : 10 Aug 2017 13:17  
Operator : SJ/JU  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleID :  
SSTD02060

Manual Integrations  
APPROVED

Sohil  
8/14/2017 4:02:03 PM

Quant Time: Aug 11 00:56:15 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 10 07:27:12 2017  
Response via : Initial Calibration



TIC: BG028256.D

(61) Phenanthrene-d10 (I)

17.709min (+0.003) 20.00ng/ul m

response 333905

| Ion    | Exp% | Act%  |
|--------|------|-------|
| 188.00 | 100  | 100   |
| 94.00  | 8.80 | 6.82# |
| 80.00  | 9.50 | 6.76# |
| 0.00   | 0.00 | 0.00  |

## Quantitation Report (Qedit)

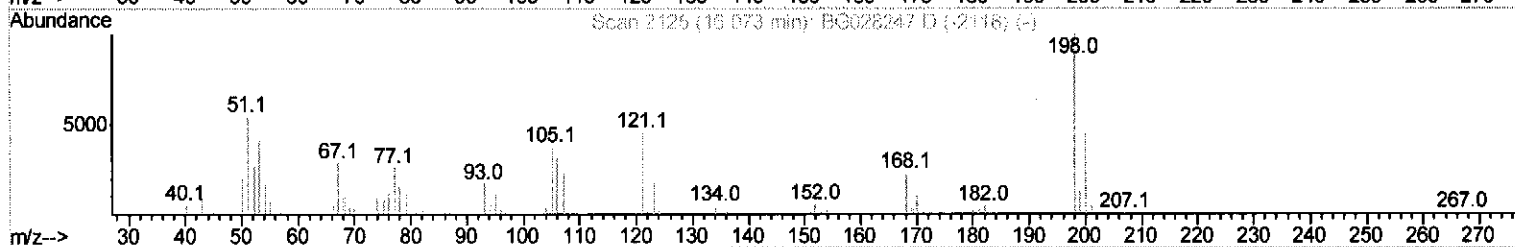
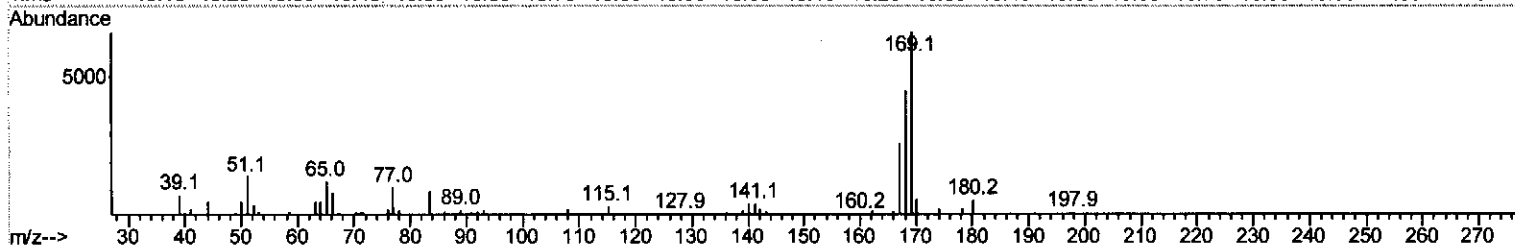
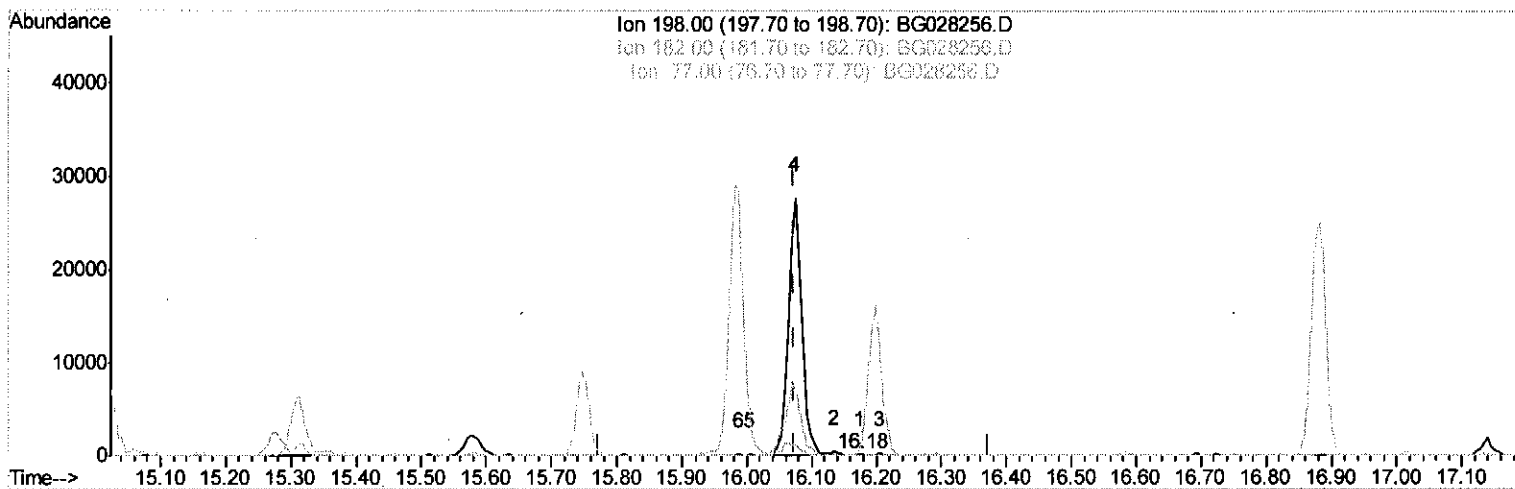
Data Path : Z:\HPCHEM1\BNA G\DATA\BG081017\  
Data File : BG028256.D  
Acq On : 10 Aug 2017 13:17  
Operator : SJ/JU  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleID :  
SSTD02060

Manual Integrations  
APPROVED

Sohil  
8/14/2017 4:02:03 PM

Quant Time: Aug 11 00:58:49 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 10 07:27:12 2017  
Response via : Initial Calibration



TIC: BG028256.D

(63) 4,6-Dinitro-2-methylphenol

16.176min (+0.103) 0.06ng/ul

response 132

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 198.00 | 100   | 100     |
| 182.00 | 6.10  | 0.00#   |
| 77.00  | 28.00 | 539.50# |
| 0.00   | 0.00  | 0.00    |

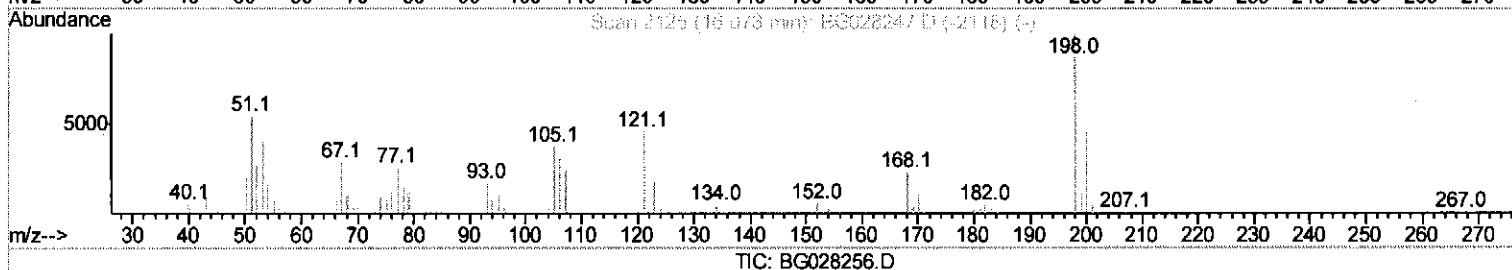
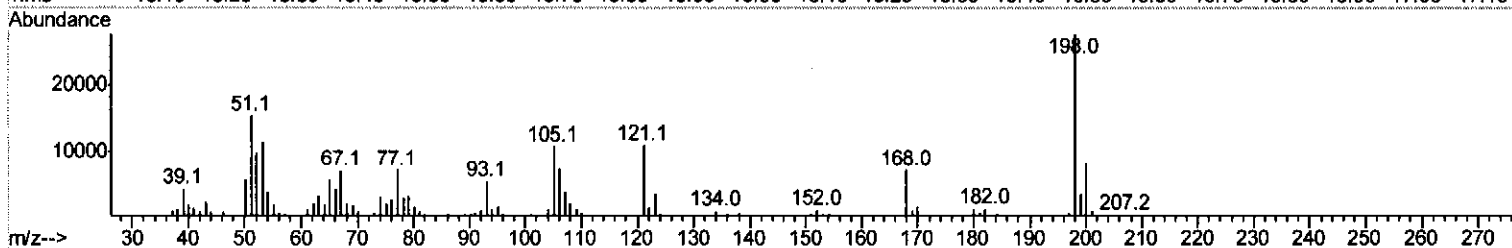
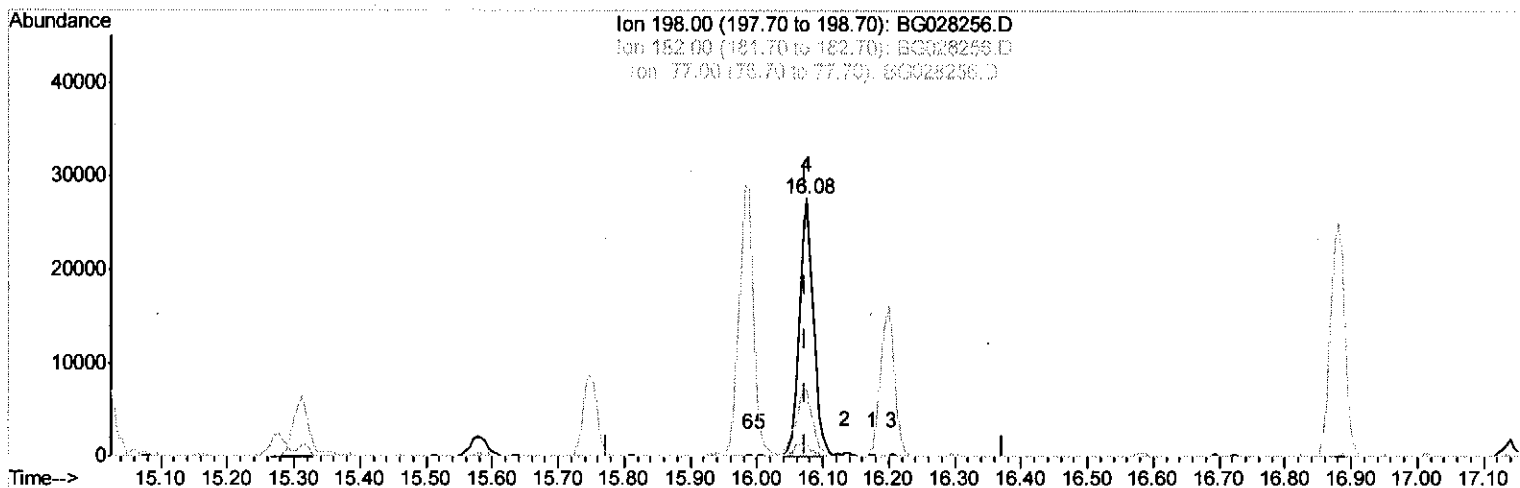
Data Path : Z:\HPCHEM1\BNA G\DATA\BG081017\  
Data File : BG028256.D  
Acq On : 10 Aug 2017 13:17  
Operator : SJ/JU  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleID :  
SSTD02060

Manual Integrations  
APPROVED

Sohil  
8/14/2017 4:02:03 PM

Quant Time: Aug 11 00:58:49 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 10 07:27:12 2017  
Response via : Initial Calibration



TIC: BG028256.D

(63) 4,6-Dinitro-2-methylphenol

16.076min (+0.003) 18.70ng/ul m

response 41130

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 198.00 | 100   | 100   |
| 182.00 | 6.10  | 4.27# |
| 77.00  | 28.00 | 25.63 |
| 0.00   | 0.00  | 0.00  |

## Quantitation Report (Qedit)

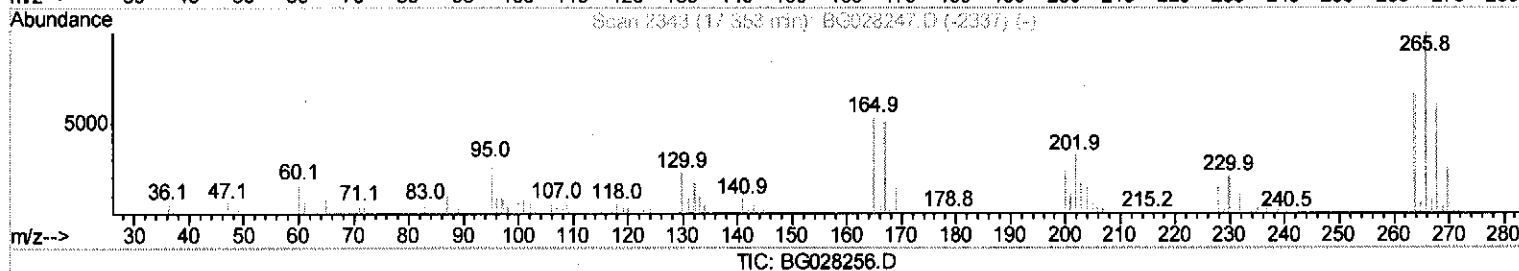
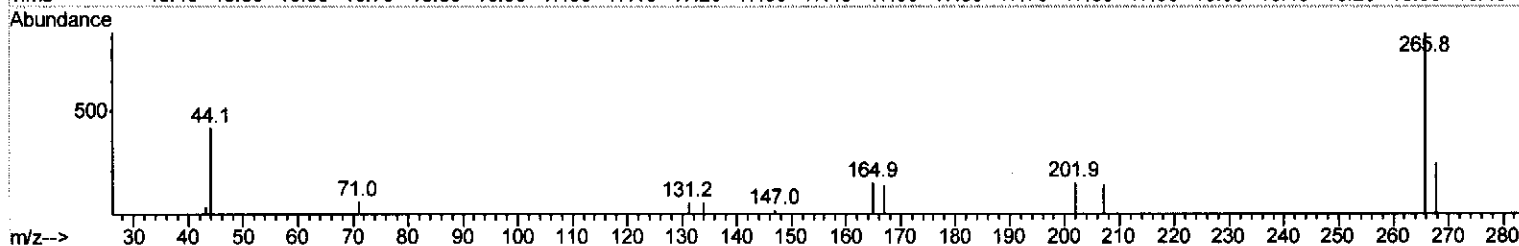
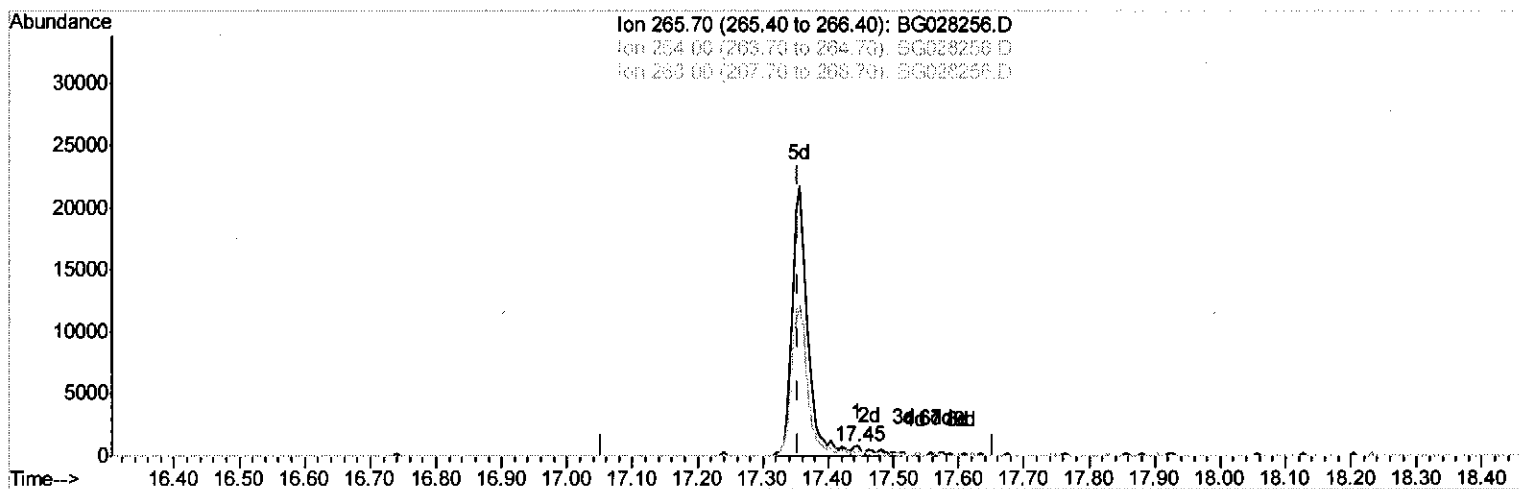
Data Path : Z:\HPCHEM1\BNA G\DATA\BG081017\  
Data File : BG028256.D  
Acq On : 10 Aug 2017 13:17  
Operator : SJ/JU  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleId :  
SSTD02060

Manual Integrations  
APPROVED

Sohil  
8/14/2017 4:02:03 PM

Quant Time: Aug 11 00:58:49 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 10 07:27:12 2017  
Response via : Initial Calibration



(68) Pentachlorophenol (C)

17.445min (+0.092) 0.39ng/ul

response 753

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 265.70 | 100   | 100    |
| 264.00 | 58.90 | 0.00#  |
| 268.00 | 70.30 | 42.15# |
| 0.00   | 0.00  | 0.00   |

## Quantitation Report (Qedit)

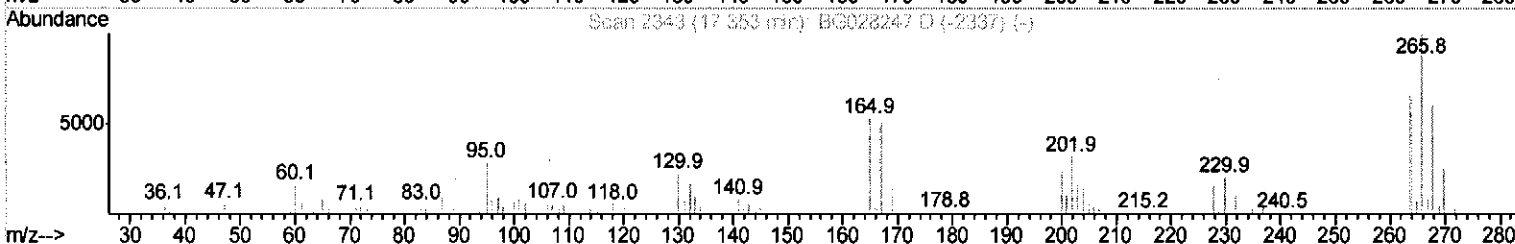
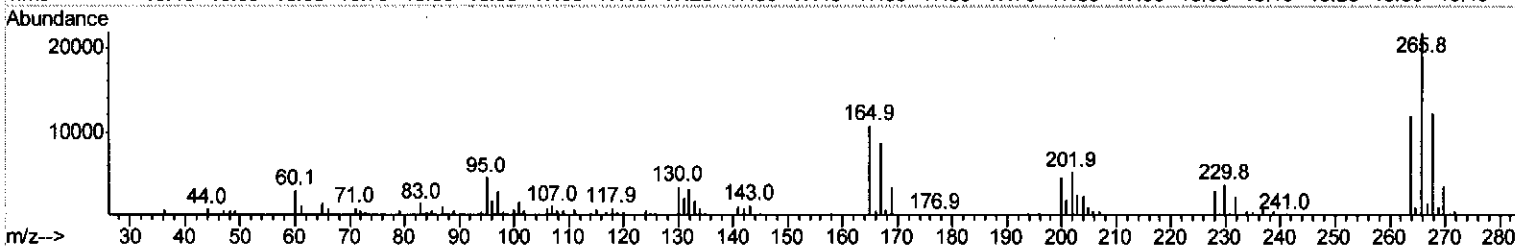
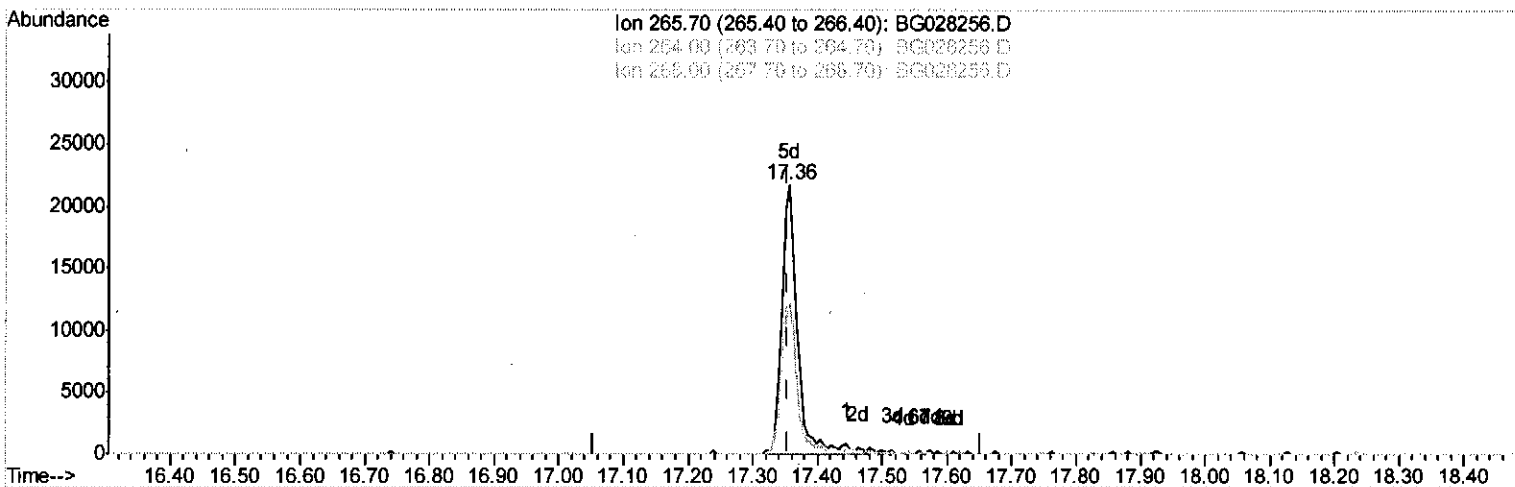
Data Path : Z:\HPCHEM1\BNA G\DATA\BG081017\  
Data File : BG028256.D  
Acq On : 10 Aug 2017 13:17  
Operator : SJ/JU  
Sample : SSTDCCC020  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_G  
LabSampleID :  
SSTD02060

Manual Integrations  
APPROVED

Sohil  
8/14/2017 4:02:03 PM

Quant Time: Aug 11 00:58:49 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 10 07:27:12 2017  
Response via : Initial Calibration



TIC: BG028256.D

(68) Pentachlorophenol (C)

17.357min (+0.003) 19.72ng/ul m

response 38160

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 265.70 | 100   | 100    |
| 264.00 | 58.90 | 54.45  |
| 268.00 | 70.30 | 55.85# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

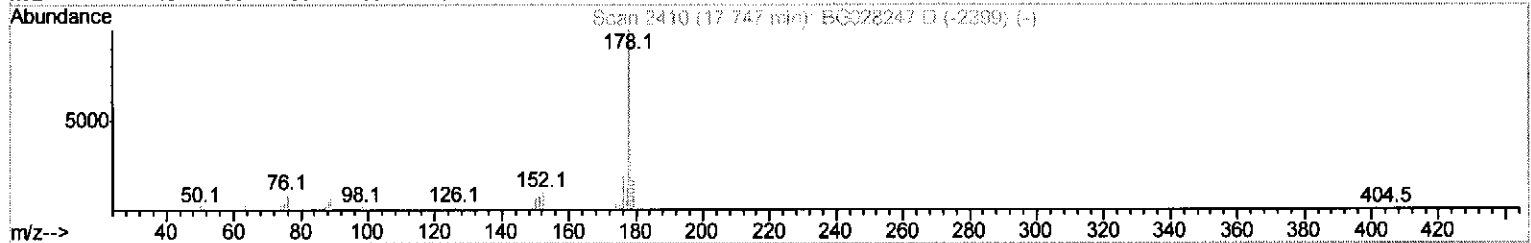
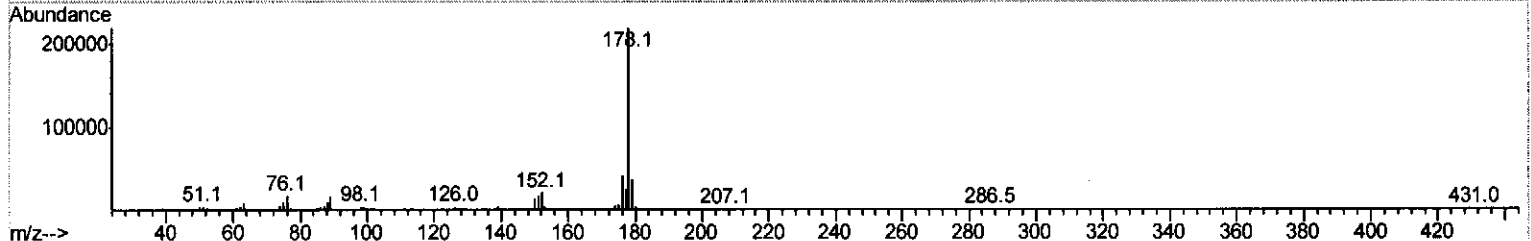
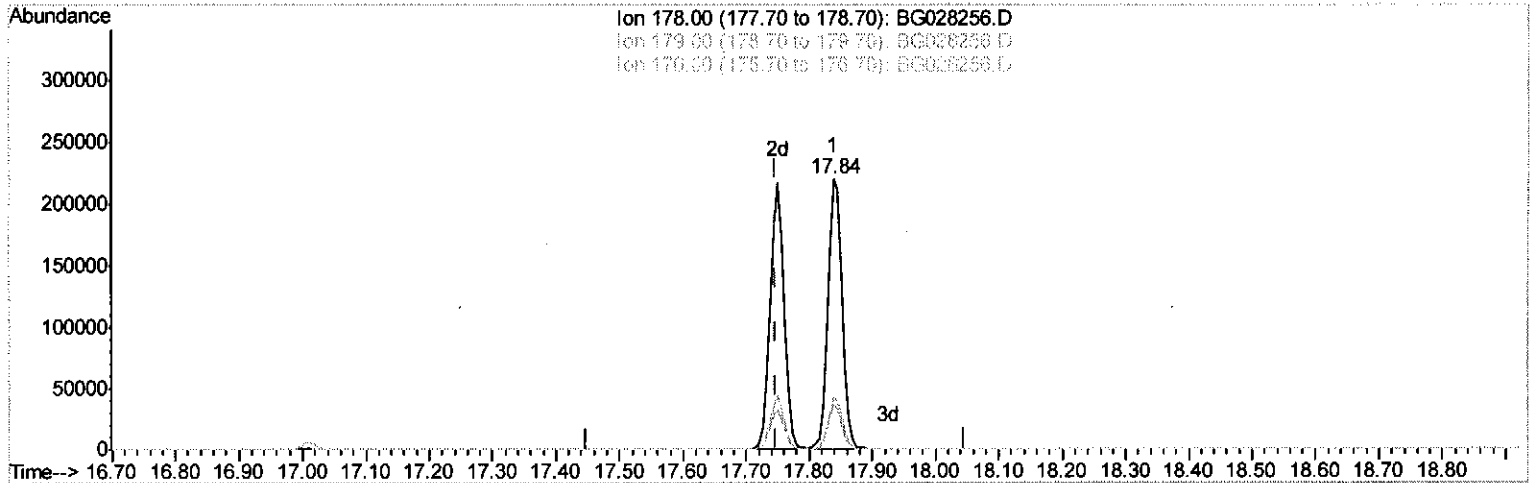
Data Path : Z:\HPCHEM1\BNA G\DATA\BG081017\  
 Data File : BG028256.D  
 Acq On : 10 Aug 2017 13:17  
 Operator : SJ/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTD02060

Manual Integrations  
 APPROVED

Sohil  
 8/14/2017 4:02:03 PM

Quant Time: Aug 11 00:58:49 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 10 07:27:12 2017  
 Response via : Initial Calibration



TIC: BG028256.D

(69) Phenanthrene  
 17.839min (+0.092) 20.55ng/ul  
 response 345300

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 178.00 | 100   | 100   |
| 179.00 | 15.50 | 16.38 |
| 176.00 | 20.60 | 19.56 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

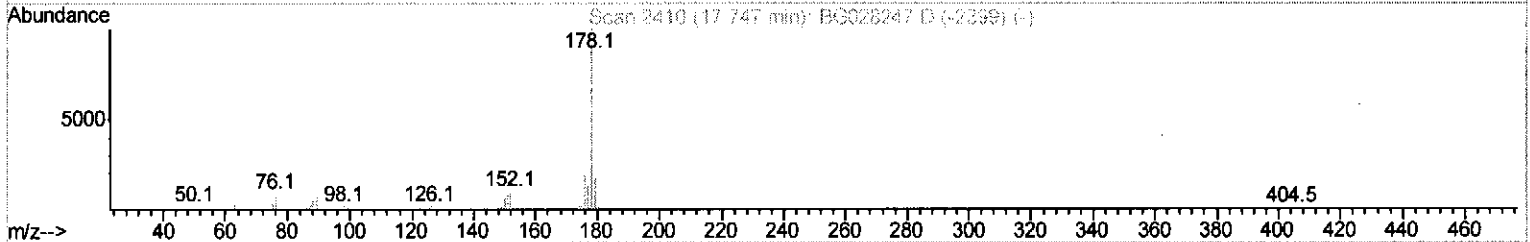
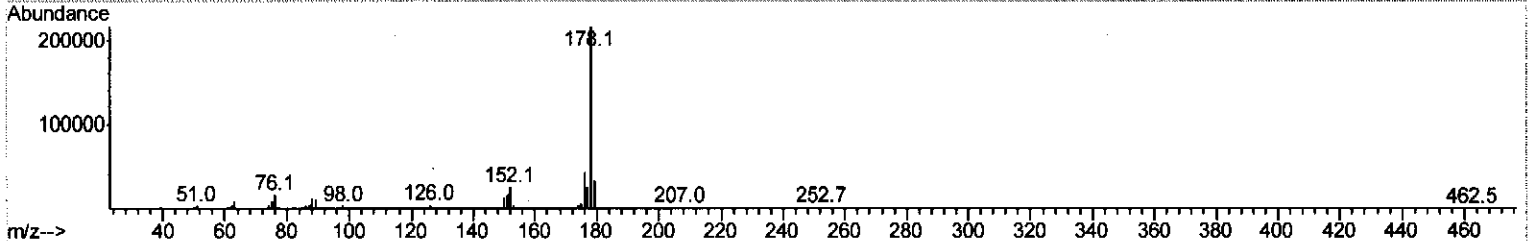
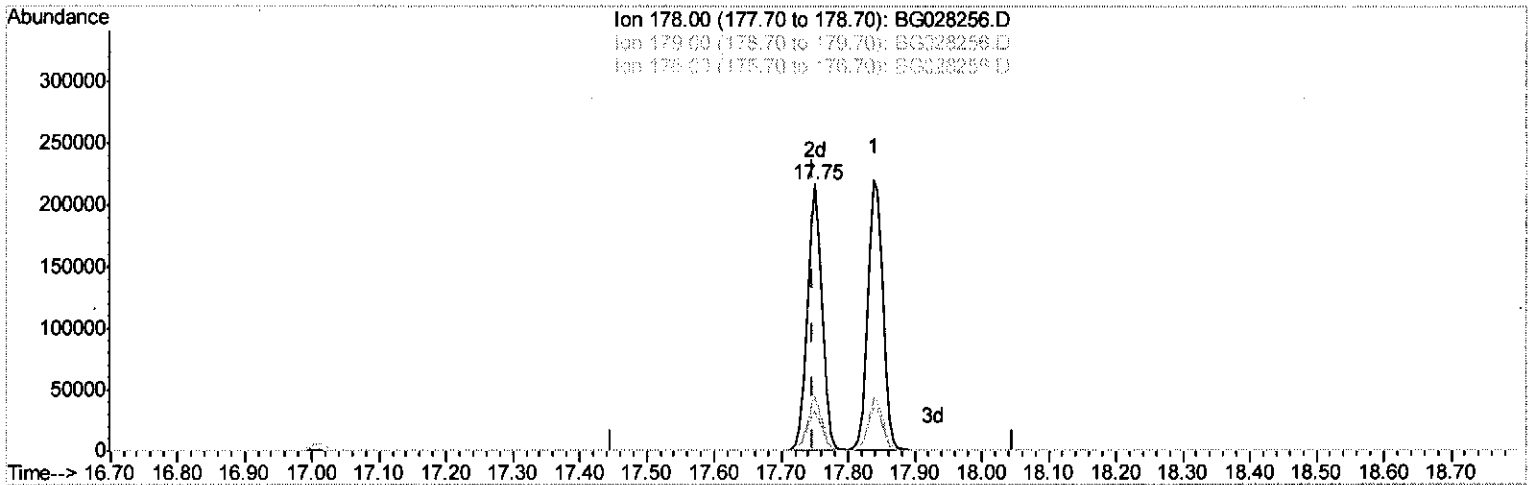
Data Path : Z:\HPCHEM1\BNA G\DATA\BG081017\  
 Data File : BG028256.D  
 Acq On : 10 Aug 2017 13:17  
 Operator : SJ/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampleId :  
 SSTD02060

Manual Integrations  
 APPROVED

Sohil  
 8/14/2017 4:02:03 PM

Quant Time: Aug 11 00:58:49 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 10 07:27:12 2017  
 Response via : Initial Calibration



TIC: BG028256.D

(69) Phenanthrene

17.751min (+0.003) 19.64ng/ul m

response 330045

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 178.00 | 100   | 100   |
| 179.00 | 15.50 | 14.88 |
| 176.00 | 20.60 | 20.09 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081017\  
 Data File : BG08256.D  
 Acq On : 10 Aug 2017 13:17  
 Operator : SJ/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampled :  
 SSTD02060

Manual Integrations  
 APPROVED

Sohil  
 8/14/2017 4:02:03 PM

Quant Time: Aug 11 01:03:18 2017

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M

Quant Title : SVOA CALIBRATION

QLast Update : Thu Aug 10 07:27:12 2017

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.36  | 152  | 40434    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.17 | 136  | 174652   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.96 | 164  | 124676   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.71 | 188  | 333905m  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 22.04 | 240  | 392244   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.54 | 264  | 374071   | 20.00 | ng/ul | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.84  | 96  | 6925   | 7.98  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.50  | 99  | 76547  | 17.24 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.67  | 67  | 50220  | 17.86 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.89  | 132 | 56520  | 20.17 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.04  | 113 | 61818  | 16.66 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.52  | 128 | 28440  | 20.82 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.25 | 143 | 32537  | 21.73 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.79 | 165 | 63549  | 20.51 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.30 | 131 | 75916  | 22.01 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.35 | 166 | 214725 | 19.36 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.65 | 160 | 249975 | 19.99 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.14 | 143 | 33545  | 19.03 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.95 | 176 | 192459 | 19.35 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.06 | 200 | 40416  | 18.63 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.80 | 188 | 316442 | 19.76 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 20.08 | 212 | 366876 | 18.24 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.29 | 264 | 342721 | 19.57 | ng/ul | 0.00 |

#### Target Compounds

|                                |       |     |        |        | Ovalue |    |
|--------------------------------|-------|-----|--------|--------|--------|----|
| 2) 1,4-Dioxane                 | 3.87  | 88  | 8833   | 9.686  | ng/uL# | 85 |
| 4) Benzaldehyde                | 7.49  | 77  | 49763  | 19.391 | ng/ul  | 95 |
| 6) Phenol                      | 7.53  | 94  | 76402  | 17.312 | ng/ul  | 94 |
| 8) Bis(2-Chloroethyl)ether     | 7.76  | 93  | 56212  | 18.698 | ng/ul  | 97 |
| 10) 2-Chlorophenol             | 7.92  | 128 | 53451  | 19.579 | ng/ul  | 91 |
| 11) 2-Methylphenol             | 8.78  | 108 | 54185  | 17.394 | ng/ul  | 91 |
| 12) 2,2'-oxybis(1-Chloropropan | 8.87  | 45  | 119842 | 16.422 | ng/ul  | 95 |
| 14) Acetophenone               | 9.17  | 105 | 91444  | 17.276 | ng/ul  | 96 |
| 15) N-Nitroso-di-n-propylamine | 9.15  | 70  | 51294  | 17.050 | ng/ul# | 88 |
| 16) 4-Methylphenol             | 9.11  | 108 | 59555  | 16.931 | ng/ul  | 83 |
| 17) Hexachloroethane           | 9.44  | 117 | 22047  | 19.489 | ng/ul  | 86 |
| 20) Nitrobenzene               | 9.56  | 77  | 76453  | 19.338 | ng/ul  | 99 |
| 21) Isophorone                 | 10.08 | 82  | 144751 | 19.272 | ng/ul  | 97 |
| 23) 2-Nitrophenol              | 10.28 | 139 | 31581  | 20.891 | ng/ul  | 91 |
| 24) 2,4-Dimethylphenol         | 10.32 | 107 | 75187  | 20.011 | ng/ul  | 95 |
| 25) Bis(2-Chloroethoxy)methane | 10.55 | 93  | 78412  | 19.166 | ng/ul  | 92 |
| 27) 2,4-Dichlorophenol         | 10.81 | 162 | 58056  | 20.585 | ng/ul  | 95 |
| 28) Naphthalene                | 11.22 | 128 | 174098 | 20.127 | ng/ul  | 99 |
| 30) 4-Chloroaniline            | 11.33 | 127 | 70000  | 20.940 | ng/ul  | 92 |
| 31) Hexachlorobutadiene        | 11.49 | 225 | 45281  | 21.751 | ng/ul  | 93 |
| 32) Caprolactam                | 12.07 | 113 | 22469  | 19.159 | ng/ul# | 69 |
| 33) 4-Chloro-3-methylphenol    | 12.42 | 107 | 71935  | 19.983 | ng/ul  | 95 |
| 34) 2-Methylnaphthalene        | 12.80 | 142 | 136094 | 19.588 | ng/ul  | 91 |

Data Path : Z:\HPCHEM1\BNA G\DATA\BG081017\  
 Data File : BG028256.D  
 Acq On : 10 Aug 2017 13:17  
 Operator : SJ/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 LabSampled :  
 SSTD02060

Manual Integrations  
 APPROVED

Sohil  
 8/14/2017 4:02:03 PM

Quant Time: Aug 11 01:03:18 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 10 07:27:12 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min)      |
|--------------------------------|-------|------|----------|--------|--------|---------------|
| 36) 1,2,4,5-Tetrachlorobenzene | 13.16 | 216  | 82491    | 20.527 | ng/ul  | 90            |
| 37) Hexachlorocyclopentadiene  | 13.14 | 237  | 40507    | 18.267 | ng/ul  | 96            |
| 38) 2,4,6-Trichlorophenol      | 13.40 | 196  | 57680    | 23.029 | ng/ul  | 99            |
| 39) 2,4,5-Trichlorophenol      | 13.47 | 196  | 59818    | 21.911 | ng/ul  | 92            |
| 40) 1,1'-Biphenyl              | 13.79 | 154  | 178265   | 19.577 | ng/ul  | 98            |
| 41) 2-Chloronaphthalene        | 13.84 | 162  | 143441   | 19.934 | ng/ul  | 98            |
| 42) 2-Nitroaniline             | 14.04 | 65   | 59019    | 19.562 | ng/ul  | 95            |
| 44) Dimethylphthalate          | 14.40 | 163  | 197799   | 19.373 | ng/ul  | 98            |
| 45) 2,6-Dinitrotoluene         | 14.52 | 165  | 42892    | 20.346 | ng/ul  | 95            |
| 47) Acenaphthylene             | 14.68 | 152  | 235631   | 19.721 | ng/ul  | 98            |
| 48) 3-Nitroaniline             | 14.87 | 138  | 38385    | 20.221 | ng/ul# | 89            |
| 49) Acenaphthene               | 15.02 | 153  | 158577   | 19.671 | ng/ul  | 97            |
| 50) 2,4-Dinitrophenol          | 15.07 | 184  | 22249    | 18.732 | ng/ul  | 89            |
| 52) 4-Nitrophenol              | 15.17 | 109  | 34533    | 18.903 | ng/ul  | 95            |
| 53) Dibenzofuran               | 15.35 | 168  | 234347   | 19.938 | ng/ul  | 95            |
| 54) 2,4-Dinitrotoluene         | 15.31 | 165  | 67227    | 21.043 | ng/ul  | 90            |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.58 | 232  | 56456    | 22.204 | ng/ul# | 97            |
| 56) Diethylphthalate           | 15.75 | 149  | 225768   | 18.849 | ng/ul  | 99            |
| 58) Fluorene                   | 16.00 | 166  | 200786   | 19.295 | ng/ul  | 98            |
| 59) 4-Chlorophenyl-phenylether | 15.99 | 204  | 110722   | 19.832 | ng/ul# | 83            |
| 60) 4-Nitroaniline             | 16.02 | 138  | 43333    | 19.241 | ng/ul  | 85            |
| 63) 4,6-Dinitro-2-methylphenol | 16.08 | 198  | 41127m   | 18.699 | ng/ul  | > JLU 8/14/17 |
| 64) N-Nitrosodiphenylamine     | 16.20 | 169  | 174950   | 19.916 | ng/ul  | 99            |
| 65) 4-Bromophenyl-phenylether  | 16.88 | 248  | 75471    | 21.030 | ng/ul  | 93            |
| 66) Hexachlorobenzene          | 17.01 | 284  | 77916    | 20.394 | ng/ul  | 95            |
| 67) Atrazine                   | 17.14 | 200  | 75596    | 19.738 | ng/ul  | 100           |
| 68) Pentachlorophenol          | 17.36 | 266  | 38160m   | 19.720 | ng/ul  | 100           |
| 69) Phenanthrene               | 17.75 | 178  | 330045m  | 19.641 | ng/ul  | } JLU 8/14/17 |
| 71) Anthracene                 | 17.84 | 178  | 345300   | 20.106 | ng/ul  | 99            |
| 72) Carbazole                  | 18.11 | 167  | 294793   | 19.737 | ng/ul  | 100           |
| 73) Di-n-butylphthalate        | 18.64 | 149  | 372600   | 20.039 | ng/ul# | 97            |
| 74) Fluoranthene               | 19.75 | 202  | 414311   | 20.288 | ng/ul  | 100           |
| 77) Pvrene                     | 20.11 | 202  | 438992   | 18.759 | ng/ul  | 97            |
| 78) Butylbenzylphthalate       | 20.98 | 149  | 172299   | 19.653 | ng/ul  | 95            |
| 79) 3,3'-Dichlorobenzidine     | 21.92 | 252  | 149989   | 19.820 | ng/ul# | 92            |
| 80) Benzo(a)anthracene         | 22.02 | 228  | 444585   | 19.617 | ng/ul  | 98            |
| 81) Bis(2-ethylhexyl)phthalate | 21.88 | 149  | 244653   | 19.622 | ng/ul  | 97            |
| 82) Chrysene                   | 22.09 | 228  | 402830   | 19.736 | ng/ul  | 99            |
| 84) Di-n-octyl phthalate       | 23.18 | 149  | 420799   | 18.771 | ng/ul  | 100           |
| 85) Benzo(b)fluoranthene       | 24.42 | 252  | 440463   | 19.677 | ng/ul# | 99            |
| 86) Benzo(k)fluoranthene       | 24.49 | 252  | 429697   | 19.652 | ng/ul# | 96            |
| 88) Benzo(a)pyrene             | 25.37 | 252  | 428867   | 19.787 | ng/ul  | 98            |
| 89) Indeno(1,2,3-cd)pyrene     | 29.55 | 276  | 503835   | 19.851 | ng/ul  | 97            |
| 90) Dibenzo(a,h)anthracene     | 29.62 | 278  | 420845   | 19.783 | ng/ul  | 95            |
| 91) Benzo(a,h,i)perylene       | 30.82 | 276  | 413303   | 19.794 | ng/ul  | 93            |

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