

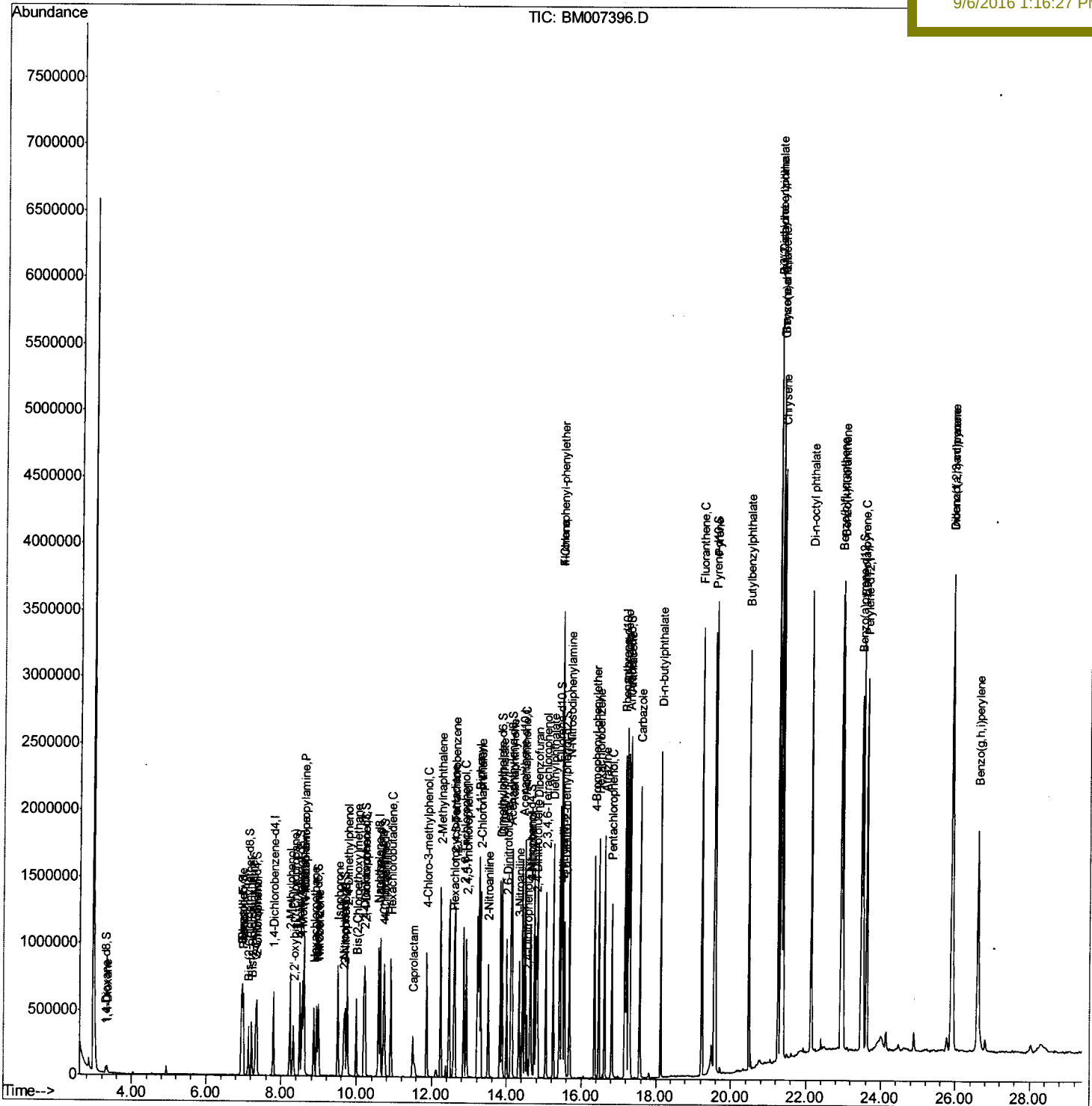
```
Data Path   : Z:\HPCHEM1\BNA_M\DATA\BM090316\  
Data File  : BM007396.D  
Acq On     : 03 Sep 2016   08:22  
Operator   : UM/SJ  
Sample     : SSTDCCC020  
Misc       :  
ALS Vial   : 2      Sample Multiplier: 1
```

Quant Time: Sep 05 01:42:59 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM082316.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Sep 03 01:45:38 2016  
Response via : Initial Calibration

**Instrument :**  
BNA\_M  
**LabSampleId :**  
SSTD02042

## Manual Integrations APPROVED

sohil  
9/6/2016 1:16:27 PM



# Quantitation Report (Qedit)

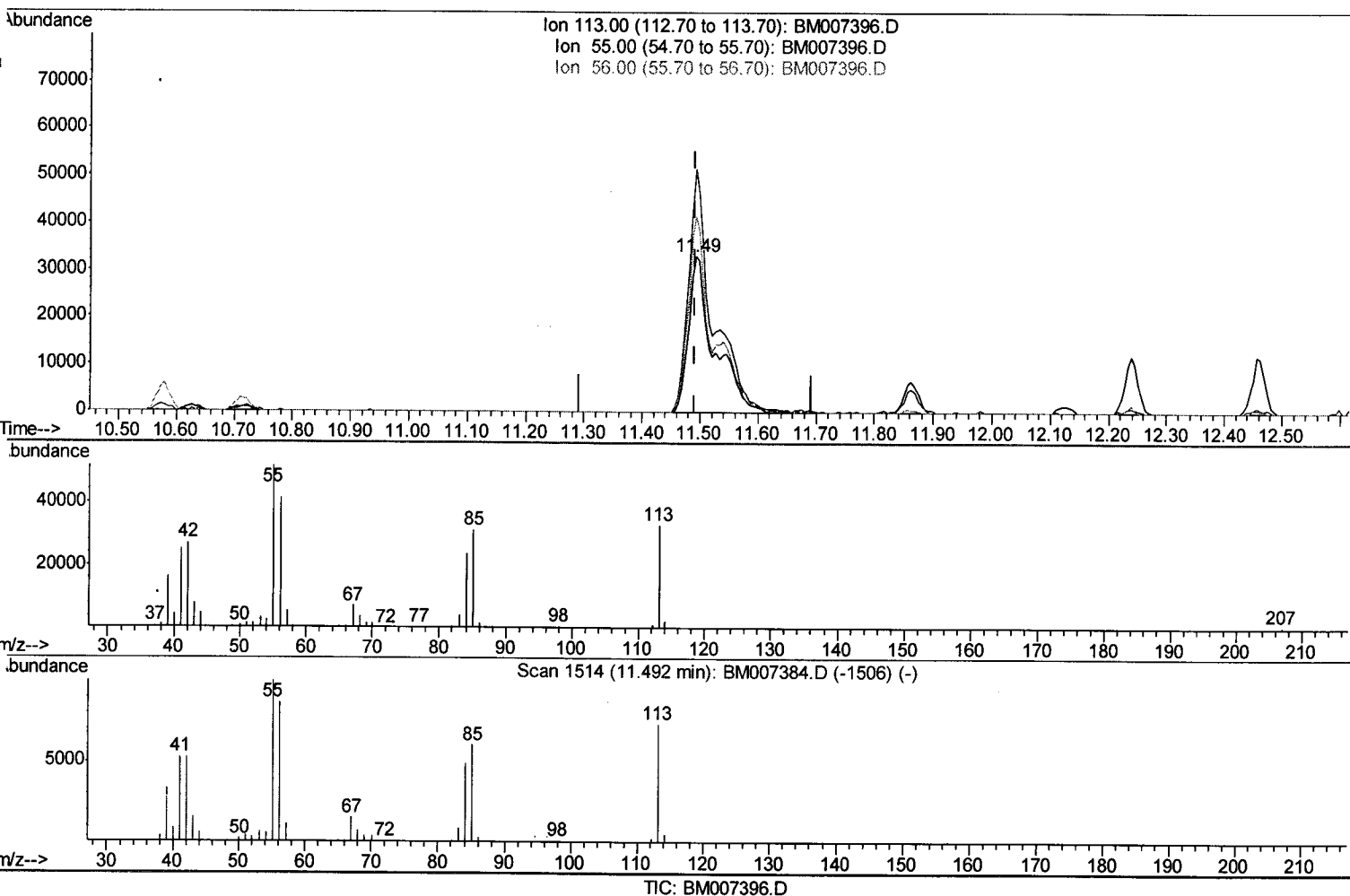
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM090316\  
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Manual Integrations  
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Quant Time: Sep 05 01:21:14 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM082316.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Sep 03 01:45:38 2016  
 Response via : Initial Calibration



(32) Caprolactam

11.492min (-0.000) 18.85ng/ul m

response 101472

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100    | 100    |
| 55.00  | 152.40 | 155.87 |
| 56.00  | 121.70 | 125.58 |
| 0.00   | 0.00   | 0.00   |

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 09/07/16

# Quantitation Report (Qedit)

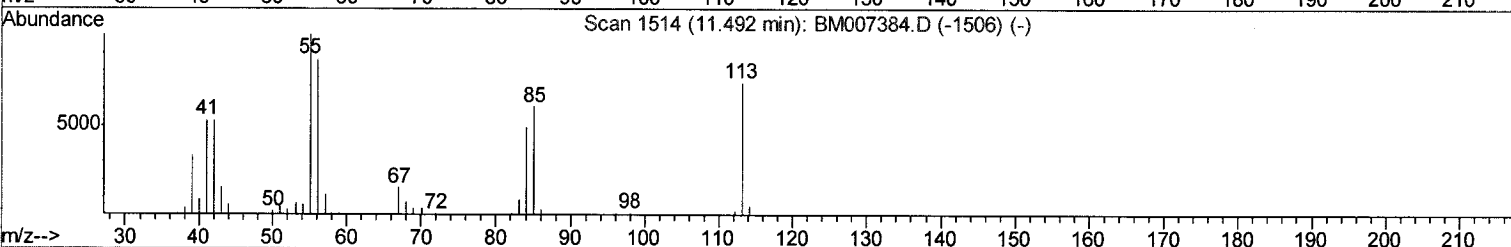
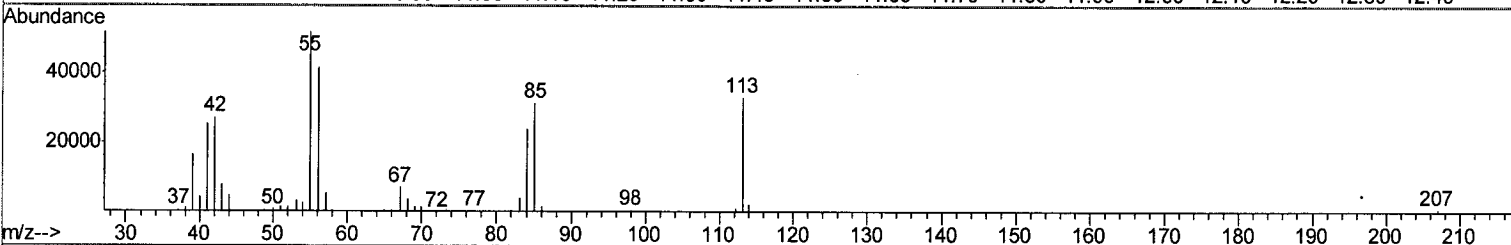
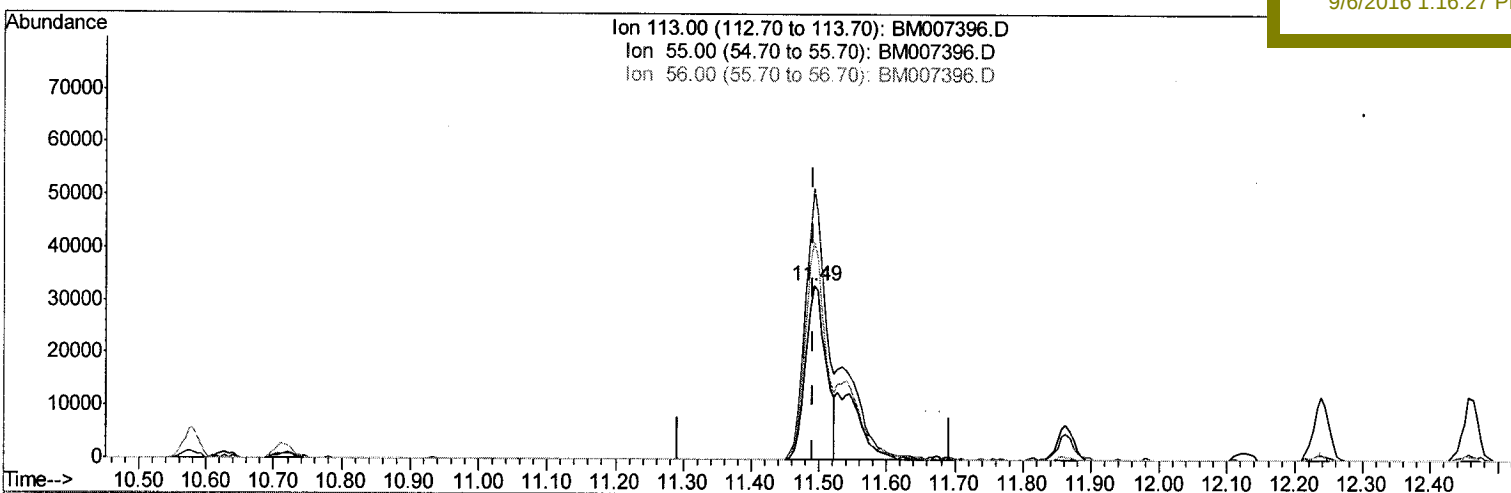
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM090316\  
 Data File : BM007396.D  
 Acq On : 03 Sep 2016 08:22  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 05 01:21:14 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM082316.M  
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 QLast Update : Sat Sep 03 01:45:38 2016  
 Response via : Initial Calibration

**Instrument :**  
 BNA\_M  
**LabSampleId :**  
 SSTD02042

**Manual Integrations**  
**APPROVED**

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 9/6/2016 1:16:27 PM



TIC: BM007396.D

(32) Caprolactam

11.492min (-0.000) 12.88ng/ul

response 69366

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100    | 100    |
| 55.00  | 152.40 | 155.87 |
| 56.00  | 121.70 | 125.58 |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM090316\  
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 Acq On : 03 Sep 2016 08:22  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
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 9/6/2016 1:16:27 PM

Quant Time: Sep 05 01:42:59 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM082316.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Sep 03 01:45:38 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.79  | 152  | 167932   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.58 | 136  | 788397   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.43 | 164  | 540921   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.17 | 188  | 1416580  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.35 | 240  | 1929224  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.62 | 264  | 2084250  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.30  | 96  | 26873   | 8.18  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.96  | 99  | 304804  | 19.21 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.13  | 67  | 162859  | 19.54 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.33  | 132 | 232007  | 19.79 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.50  | 113 | 266771  | 19.28 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.95  | 128 | 120021  | 20.74 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.67  | 143 | 140647  | 20.81 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.20 | 165 | 274770  | 20.42 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.72 | 131 | 349214  | 20.80 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.83 | 166 | 934863  | 20.03 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.12 | 160 | 1116410 | 20.64 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.63 | 143 | 168406  | 19.12 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.42 | 176 | 820833  | 20.34 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.54 | 200 | 168133  | 18.88 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.27 | 188 | 1374931 | 20.78 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.56 | 212 | 1719322 | 21.31 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.47 | 264 | 1995096 | 20.78 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |       |        | Qvalue |
|--------------------------------|-------|-----|---------|-------|--------|--------|
| 2) 1,4-Dioxane                 | 3.34  | 88  | 29579   | 8.07  | ng/uL# | 90     |
| 4) Benzaldehyde                | 6.94  | 77  | 190499  | 21.08 | ng/ul  | 99     |
| 6) Phenol                      | 6.99  | 94  | 317039  | 19.27 | ng/ul  | 95     |
| 8) Bis(2-Chloroethyl)ether     | 7.22  | 93  | 225431  | 19.67 | ng/ul  | 99     |
| 10) 2-Chlorophenol             | 7.36  | 128 | 240817  | 20.06 | ng/ul  | 100    |
| 11) 2-Methylphenol             | 8.23  | 108 | 249469  | 19.40 | ng/ul  | 96     |
| 12) 2,2'-oxybis(1-Chloropropan | 8.33  | 45  | 245078  | 19.00 | ng/ul  | 97     |
| 14) Acetophenone               | 8.61  | 105 | 412183  | 19.43 | ng/ul  | 98     |
| 15) N-Nitroso-di-n-propylamine | 8.59  | 70  | 214846  | 19.05 | ng/ul  | 98     |
| 16) 4-Methylphenol             | 8.56  | 108 | 273916  | 18.98 | ng/ul  | 95     |
| 17) Hexachloroethane           | 8.87  | 117 | 95487   | 20.45 | ng/ul  | 96     |
| 20) Nitrobenzene               | 8.99  | 77  | 301444  | 20.28 | ng/ul  | 98     |
| 21) Isophorone                 | 9.51  | 82  | 594364  | 19.62 | ng/ul  | 99     |
| 23) 2-Nitrophenol              | 9.70  | 139 | 154240  | 20.99 | ng/ul  | 97     |
| 24) 2,4-Dimethylphenol         | 9.76  | 107 | 332808  | 20.53 | ng/ul  | 99     |
| 25) Bis(2-Chloroethoxy)methane | 9.99  | 93  | 336938  | 19.74 | ng/ul  | 99     |
| 27) 2,4-Dichlorophenol         | 10.23 | 162 | 273224  | 20.44 | ng/ul  | 97     |
| 28) Naphthalene                | 10.63 | 128 | 799844  | 20.40 | ng/ul  | 100    |
| 30) 4-Chloroaniline            | 10.74 | 127 | 359126  | 20.78 | ng/ul  | 97     |
| 31) Hexachlorobutadiene        | 10.91 | 225 | 188114  | 20.83 | ng/ul  | 99     |
| 32) Caprolactam                | 11.49 | 113 | 101472m | 18.85 | ng/ul  | 96     |
| 33) 4-Chloro-3-methylphenol    | 11.86 | 107 | 327567  | 19.80 | ng/ul  | 96     |
| 34) 2-Methylnaphthalene        | 12.24 | 142 | 643387  | 20.05 | ng/ul  | 100    |

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 09/07/16

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 LabSampleId :  
 SSTD02042

Manual Integrations  
 APPROVED

sohil  
 9/6/2016 1:16:27 PM

Quant Time: Sep 05 01:42:59 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM082316.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Sep 03 01:45:38 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.61 | 216  | 384657   | 21.36 | ng/ul  | 99       |
| 37) Hexachlorocyclopentadiene  | 12.59 | 237  | 190191   | 17.50 | ng/ul  | 100      |
| 38) 2,4,6-Trichlorophenol      | 12.85 | 196  | 263072   | 20.65 | ng/ul  | 99       |
| 39) 2,4,5-Trichlorophenol      | 12.92 | 196  | 278598   | 20.98 | ng/ul  | 95       |
| 40) 1,1'-Biphenyl              | 13.26 | 154  | 874106   | 20.84 | ng/ul  | 98       |
| 41) 2-Chloronaphthalene        | 13.30 | 162  | 683647   | 20.78 | ng/ul  | 99       |
| 42) 2-Nitroaniline             | 13.50 | 65   | 226327   | 21.07 | ng/ul  | 97       |
| 44) Dimethylphthalate          | 13.88 | 163  | 920562   | 19.80 | ng/ul  | 98       |
| 45) 2,6-Dinitrotoluene         | 14.00 | 165  | 195175   | 20.54 | ng/ul  | 92       |
| 47) Acenaphthylene             | 14.14 | 152  | 1153975  | 20.73 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.33 | 138  | 204111   | 21.05 | ng/ul  | 97       |
| 49) Acenaphthene               | 14.49 | 153  | 740574   | 20.45 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.54 | 184  | 109888   | 17.06 | ng/ul# | 86       |
| 52) 4-Nitrophenol              | 14.64 | 109  | 187022   | 19.96 | ng/ul  | 83       |
| 53) Dibenzofuran               | 14.82 | 168  | 1110943  | 20.50 | ng/ul  | 96       |
| 54) 2,4-Dinitrotoluene         | 14.79 | 165  | 297344   | 20.42 | ng/ul  | 99       |
| 55) 2,3,4,6-Tetrachlorophenol  | 15.05 | 232  | 276384   | 20.28 | ng/ul  | 96       |
| 56) Diethylphthalate           | 15.24 | 149  | 953522   | 19.67 | ng/ul  | 99       |
| 58) Fluorene                   | 15.47 | 166  | 923697   | 20.69 | ng/ul  | 98       |
| 59) 4-Chlorophenyl-phenylether | 15.47 | 204  | 475308   | 20.37 | ng/ul  | 97       |
| 60) 4-Nitroaniline             | 15.50 | 138  | 227938   | 20.71 | ng/ul  | 93       |
| 63) 4,6-Dinitro-2-methylphenol | 15.56 | 198  | 182470   | 19.19 | ng/ul  | 100      |
| 64) N-Nitrosodiphenylamine     | 15.69 | 169  | 818785   | 20.70 | ng/ul  | 100      |
| 65) 4-Bromophenyl-phenylether  | 16.36 | 248  | 330249   | 20.65 | ng/ul  | 97       |
| 66) Hexachlorobenzene          | 16.47 | 284  | 361432   | 20.18 | ng/ul  | 94       |
| 67) Atrazine                   | 16.63 | 200  | 344152   | 20.61 | ng/ul  | 99       |
| 68) Pentachlorophenol          | 16.82 | 266  | 232899   | 20.15 | ng/ul  | 99       |
| 69) Phenanthrene               | 17.21 | 178  | 1574243  | 20.70 | ng/ul  | 99       |
| 71) Anthracene                 | 17.30 | 178  | 1630884  | 20.77 | ng/ul  | 100      |
| 72) Carbazole                  | 17.57 | 167  | 1452719  | 21.29 | ng/ul  | 99       |
| 73) Di-n-butylphthalate        | 18.13 | 149  | 1739967  | 20.27 | ng/ul  | 99       |
| 74) Fluoranthene               | 19.23 | 202  | 2119245  | 22.21 | ng/ul  | 97       |
| 77) Pyrene                     | 19.59 | 202  | 2190243  | 21.16 | ng/ul  | 96       |
| 78) Butylbenzylphthalate       | 20.49 | 149  | 905255   | 21.02 | ng/ul  | 99       |
| 79) 3,3'-Dichlorobenzidine     | 21.27 | 252  | 829309   | 21.65 | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.33 | 228  | 2376301  | 20.89 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.26 | 149  | 1276472  | 20.44 | ng/ul  | 100      |
| 82) Chrysene                   | 21.39 | 228  | 2169411  | 21.06 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.14 | 149  | 2356320  | 22.70 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 22.94 | 252  | 2516146  | 20.42 | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 22.98 | 252  | 2513578  | 22.07 | ng/ul  | 99       |
| 88) Benzo(a)pyrene             | 23.52 | 252  | 2461082  | 20.87 | ng/ul  | 98       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.91 | 276  | 2715427  | 18.76 | ng/ul  | 99       |
| 90) Dibenzo(a,h)anthracene     | 25.92 | 278  | 2277296  | 18.92 | ng/ul  | 99       |
| 91) Benzo(g,h,i)perylene       | 26.61 | 276  | 2216221  | 18.04 | ng/ul  | 98       |

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