



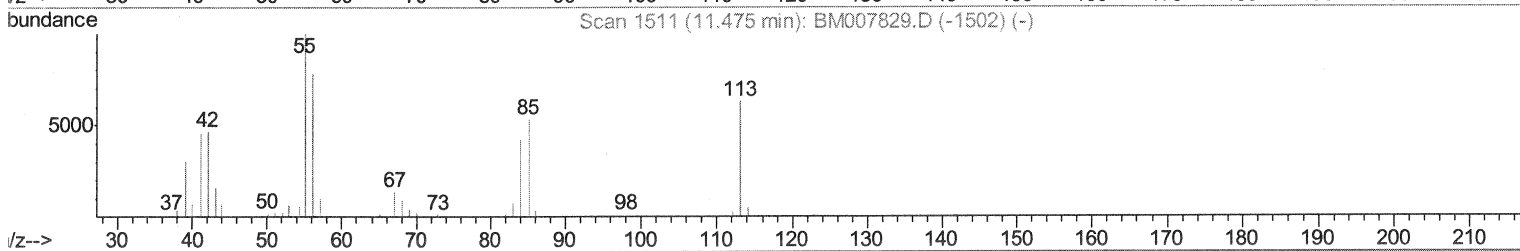
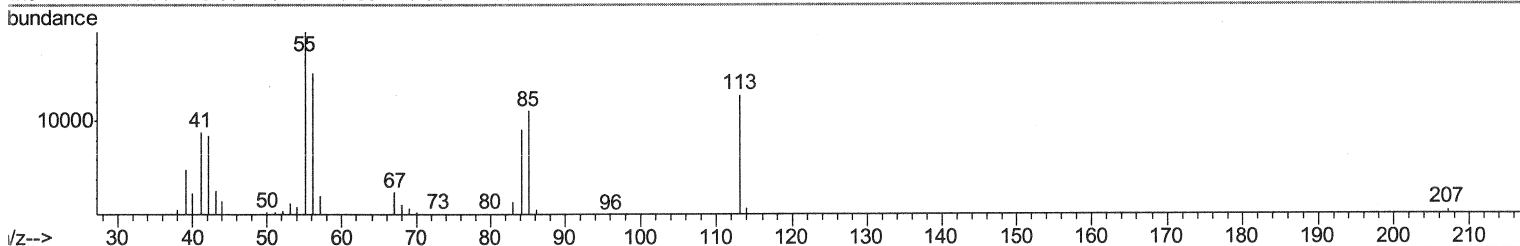
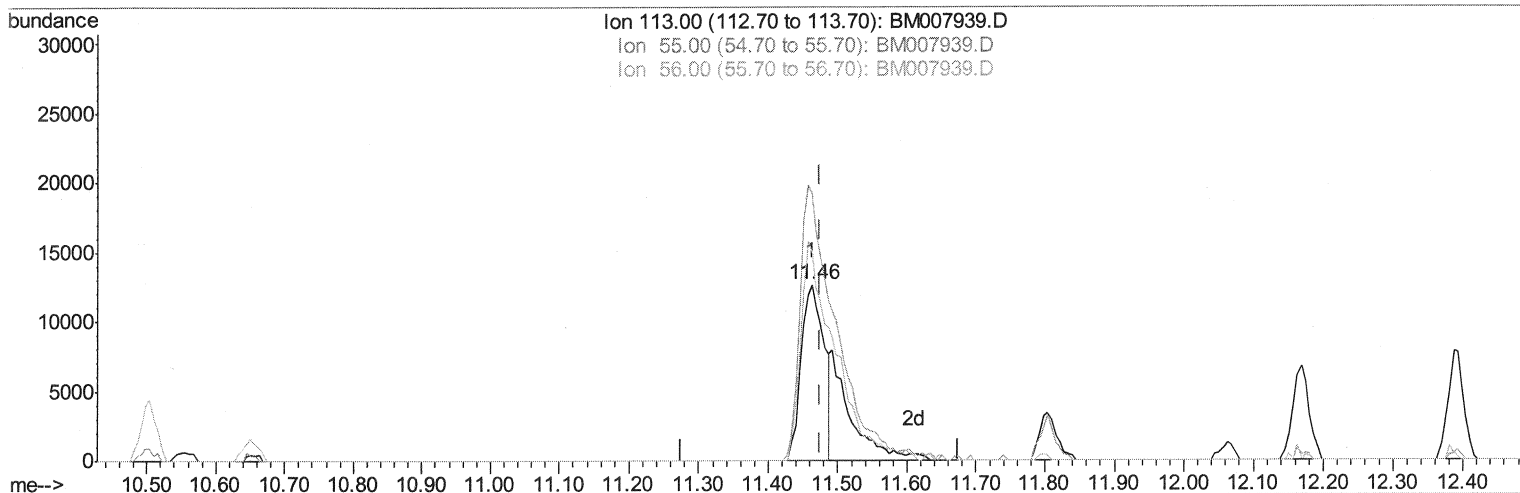
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM111716\  
 Data File : BM007939.D  
 Acq On : 17 Nov 2016 14:59  
 Operator : UM/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 LabSampleId :  
 SSTD02034

Manual Integrations  
 APPROVED

umangi  
 11/18/2016 5:23:22 PM

Quant Time: Nov 18 01:09:33 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\Methods\SOM02.2-EPA-BM102016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Nov 16 07:16:11 2016  
 Response via : Initial Calibration



TIC: BM007939.D

(32) Caprolactam

11.463min (-0.012) 11.42ng/ul

response 28797

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100    | 100    |
| 55.00  | 152.40 | 152.23 |
| 56.00  | 121.70 | 118.21 |
| 0.00   | 0.00   | 0.00   |

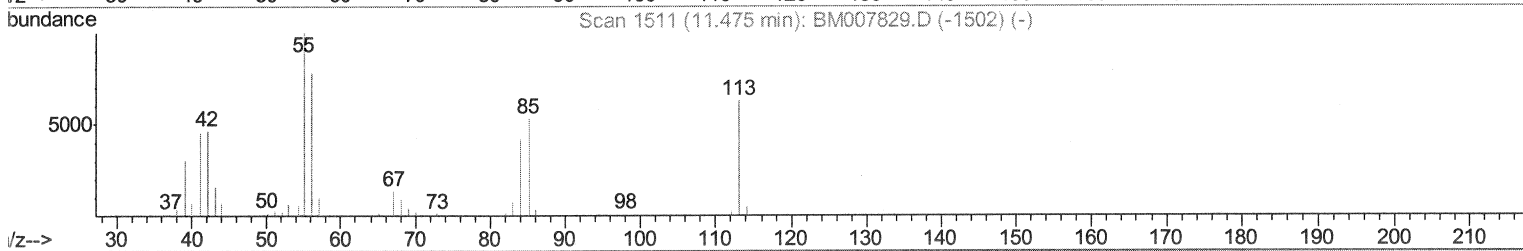
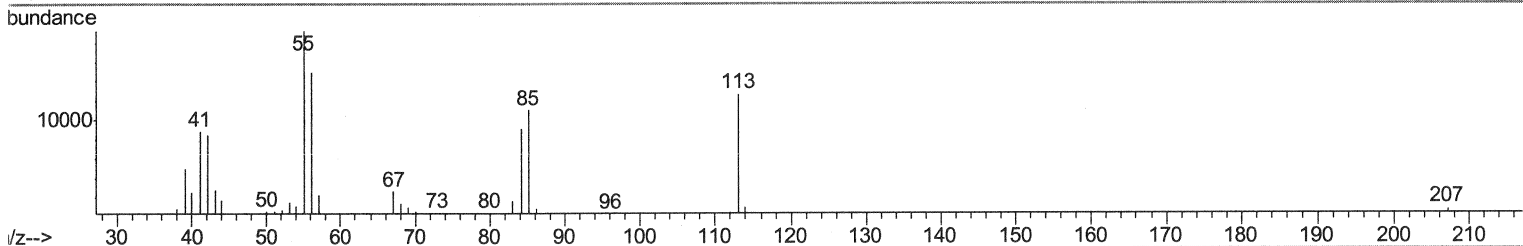
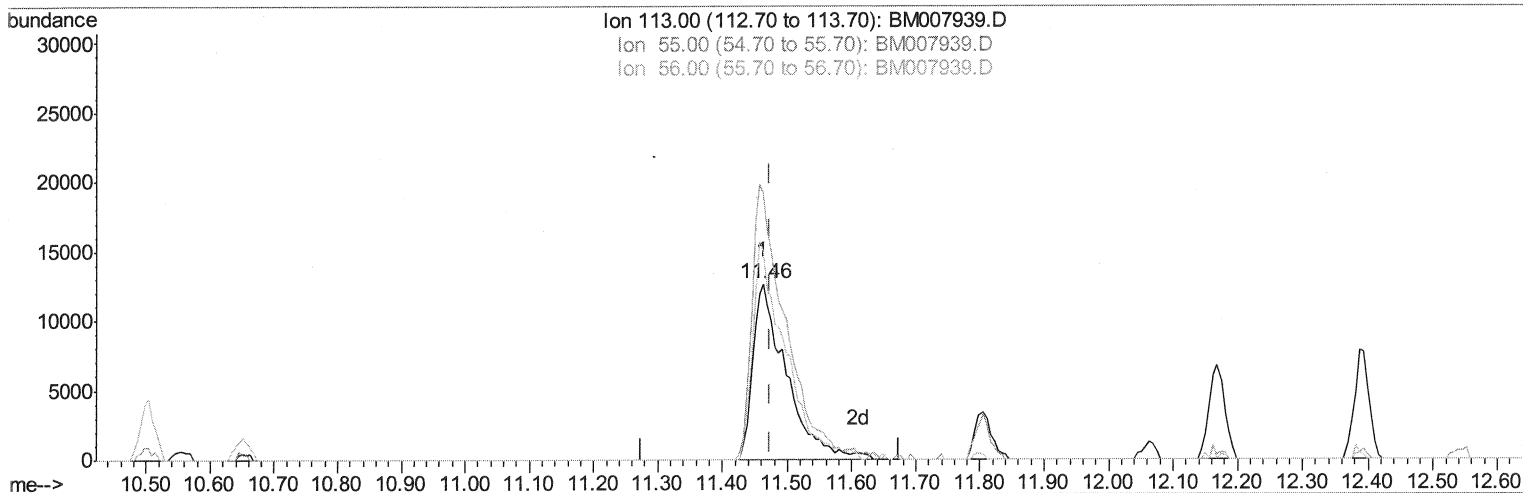
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TIC: BM007939.D

(32) Caprolactam

11.463min (-0.012) 17.90ng/ul m

SJ 11/23/16

response 45121

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100    | 100    |
| 55.00  | 152.40 | 152.23 |
| 56.00  | 121.70 | 118.21 |
| 0.00   | 0.00   | 0.00   |

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Quant Time: Nov 18 01:19:15 2016  
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 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Nov 16 07:16:11 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 157437   | 20.00 | ng/ul | -0.01    |
| 18) Naphthalene-d8        | 10.50 | 136  | 600623   | 20.00 | ng/ul | -0.01    |
| 35) Acenaphthene-d10      | 14.36 | 164  | 381714   | 20.00 | ng/ul | -0.01    |
| 61) Phenanthrene-d10      | 17.11 | 188  | 764300   | 20.00 | ng/ul | -0.01    |
| 75) Chrysene-d12          | 21.30 | 240  | 1010268  | 20.00 | ng/ul | -0.01    |
| 83) Perylene-d12          | 23.54 | 264  | 1030545  | 20.00 | ng/ul | -0.02    |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.28  | 96  | 29157  | 7.99  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.90  | 99  | 237718 | 19.34 | ng/ul | -0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.07  | 67  | 144302 | 19.87 | ng/ul | -0.01 |
| 9) 2-Chlorophenol-d4           | 7.26  | 132 | 187292 | 19.89 | ng/ul | -0.01 |
| 13) 4-Methylphenol-d8          | 8.43  | 113 | 178410 | 18.70 | ng/ul | -0.01 |
| 19) Nitrobenzene-d5            | 8.89  | 128 | 88955  | 20.39 | ng/ul | -0.01 |
| 22) 2-Nitrophenol-d4           | 9.60  | 143 | 93813  | 20.06 | ng/ul | -0.01 |
| 26) 2,4-Dichlorophenol-d3      | 10.13 | 165 | 179891 | 19.70 | ng/ul | -0.01 |
| 29) 4-Chloroaniline-d4         | 10.65 | 131 | 218455 | 20.86 | ng/ul | -0.01 |
| 43) Dimethylphthalate-d6       | 13.77 | 166 | 514059 | 19.60 | ng/ul | -0.01 |
| 46) Acenaphthylene-d8          | 14.05 | 160 | 627613 | 19.91 | ng/ul | -0.01 |
| 51) 4-Nitrophenol-d4           | 14.59 | 143 | 70072  | 16.71 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.36 | 176 | 457458 | 19.97 | ng/ul | -0.01 |
| 62) 4,6-Dinitro-2-methylphenol | 15.50 | 200 | 76764  | 16.87 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.21 | 188 | 701720 | 20.20 | ng/ul | -0.01 |
| 76) Pyrene-d10                 | 19.50 | 212 | 814474 | 19.53 | ng/ul | -0.01 |
| 87) Benzo(a)pyrene-d12         | 23.40 | 264 | 909181 | 19.99 | ng/ul | -0.01 |

## Target Compounds

|                                |       |     |        |       |       | Qvalue |
|--------------------------------|-------|-----|--------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.31  | 88  | 31634  | 7.88  | ng/uL | 98     |
| 4) Benzaldehyde                | 6.89  | 77  | 172862 | 22.34 | ng/ul | 97     |
| 6) Phenol                      | 6.93  | 94  | 246146 | 19.60 | ng/ul | 99     |
| 8) Bis(2-Chloroethyl)ether     | 7.16  | 93  | 190304 | 19.69 | ng/ul | 99     |
| 10) 2-Chlorophenol             | 7.30  | 128 | 191809 | 19.95 | ng/ul | 98     |
| 11) 2-Methylphenol             | 8.17  | 108 | 174644 | 19.05 | ng/ul | 100    |
| 12) 2,2'-oxybis(1-Chloropropan | 8.26  | 45  | 218547 | 20.29 | ng/ul | 99     |
| 14) Acetophenone               | 8.55  | 105 | 291527 | 19.36 | ng/ul | 99     |
| 15) N-Nitroso-di-n-propylamine | 8.53  | 70  | 149396 | 19.91 | ng/ul | 95     |
| 16) 4-Methylphenol             | 8.50  | 108 | 188868 | 19.18 | ng/ul | 98     |
| 17) Hexachloroethane           | 8.79  | 117 | 86499  | 20.41 | ng/ul | 94     |
| 20) Nitrobenzene               | 8.93  | 77  | 228498 | 20.38 | ng/ul | 96     |
| 21) Isophorone                 | 9.45  | 82  | 393058 | 20.34 | ng/ul | 99     |
| 23) 2-Nitrophenol              | 9.63  | 139 | 95019  | 19.65 | ng/ul | 97     |
| 24) 2,4-Dimethylphenol         | 9.69  | 107 | 215940 | 19.66 | ng/ul | 98     |
| 25) Bis(2-Chloroethoxy)methane | 9.92  | 93  | 232963 | 19.83 | ng/ul | 98     |
| 27) 2,4-Dichlorophenol         | 10.16 | 162 | 175018 | 19.56 | ng/ul | 98     |
| 28) Naphthalene                | 10.55 | 128 | 586830 | 19.92 | ng/ul | 100    |
| 30) 4-Chloroaniline            | 10.67 | 127 | 220576 | 20.84 | ng/ul | 96     |
| 31) Hexachlorobutadiene        | 10.83 | 225 | 144954 | 19.96 | ng/ul | 98     |
| 32) Caprolactam                | 11.46 | 113 | 45121m | 17.90 | ng/ul |        |
| 33) 4-Chloro-3-methylphenol    | 11.80 | 107 | 188341 | 19.98 | ng/ul | 93     |
| 34) 2-Methylnaphthalene        | 12.17 | 142 | 413865 | 19.82 | ng/ul | 99     |

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.55 | 216  | 244997   | 19.77 | ng/ul  | 97       |
| 37) Hexachlorocyclopentadiene  | 12.52 | 237  | 95789    | 13.12 | ng/ul  | 98       |
| 38) 2,4,6-Trichlorophenol      | 12.79 | 196  | 136858   | 19.67 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 12.87 | 196  | 148392   | 19.50 | ng/ul  | 95       |
| 40) 1,1'-Biphenyl              | 13.19 | 154  | 537247   | 19.87 | ng/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.23 | 162  | 414479   | 20.03 | ng/ul  | 98       |
| 42) 2-Nitroaniline             | 13.45 | 65   | 113234   | 20.37 | ng/ul  | 95       |
| 44) Dimethylphthalate          | 13.82 | 163  | 497668   | 19.60 | ng/ul  | 99       |
| 45) 2,6-Dinitrotoluene         | 13.95 | 165  | 96318    | 19.95 | ng/ul  | 93       |
| 47) Acenaphthylene             | 14.08 | 152  | 649059   | 20.29 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.29 | 138  | 96849    | 20.14 | ng/ul  | 98       |
| 49) Acenaphthene               | 14.42 | 153  | 437009   | 19.81 | ng/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.51 | 184  | 39313    | 13.51 | ng/ul# | 85       |
| 52) 4-Nitrophenol              | 14.60 | 109  | 66450    | 16.27 | ng/ul  | 93       |
| 53) Dibenzofuran               | 14.76 | 168  | 632813   | 20.00 | ng/ul  | 98       |
| 54) 2,4-Dinitrotoluene         | 14.74 | 165  | 143021   | 20.52 | ng/ul  | 89       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.99 | 232  | 133652   | 19.70 | ng/ul# | 95       |
| 56) Diethylphthalate           | 15.19 | 149  | 498381   | 19.72 | ng/ul  | 99       |
| 58) Fluorene                   | 15.41 | 166  | 508696   | 20.10 | ng/ul  | 100      |
| 59) 4-Chlorophenyl-phenylether | 15.40 | 204  | 271092   | 20.15 | ng/ul  | 96       |
| 60) 4-Nitroaniline             | 15.45 | 138  | 91519    | 18.69 | ng/ul  | 98       |
| 63) 4,6-Dinitro-2-methylphenol | 15.51 | 198  | 80190    | 17.15 | ng/ul# | 99       |
| 64) N-Nitrosodiphenylamine     | 15.62 | 169  | 439152   | 19.99 | ng/ul  | 99       |
| 65) 4-Bromophenyl-phenylether  | 16.30 | 248  | 172391   | 19.68 | ng/ul  | 99       |
| 66) Hexachlorobenzene          | 16.42 | 284  | 191491   | 19.77 | ng/ul  | 99       |
| 67) Atrazine                   | 16.58 | 200  | 160029   | 18.79 | ng/ul  | 98       |
| 68) Pentachlorophenol          | 16.77 | 266  | 94192    | 17.24 | ng/ul  | 99       |
| 69) Phenanthrene               | 17.15 | 178  | 816749   | 19.96 | ng/ul  | 99       |
| 71) Anthracene                 | 17.24 | 178  | 839829   | 20.19 | ng/ul  | 99       |
| 72) Carbazole                  | 17.52 | 167  | 720876   | 19.92 | ng/ul  | 100      |
| 73) Di-n-butylphthalate        | 18.07 | 149  | 800050   | 19.77 | ng/ul  | 99       |
| 74) Fluoranthene               | 19.17 | 202  | 969557   | 20.17 | ng/ul  | 99       |
| 77) Pyrene                     | 19.53 | 202  | 1024293  | 19.56 | ng/ul  | 99       |
| 78) Butylbenzylphthalate       | 20.43 | 149  | 363733   | 19.19 | ng/ul  | 97       |
| 79) 3,3'-Dichlorobenzidine     | 21.22 | 252  | 356239   | 19.68 | ng/ul  | 100      |
| 80) Benzo(a)anthracene         | 21.29 | 228  | 1078842  | 19.81 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.21 | 149  | 538933   | 19.27 | ng/ul  | 99       |
| 82) Chrysene                   | 21.34 | 228  | 1039976  | 19.92 | ng/ul  | 99       |
| 84) Di-n-octyl phthalate       | 22.09 | 149  | 947409   | 17.84 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 22.87 | 252  | 1127319  | 19.16 | ng/ul  | 99       |
| 86) Benzo(k)fluoranthene       | 22.92 | 252  | 1117632  | 20.35 | ng/ul  | 100      |
| 88) Benzo(a)pyrene             | 23.45 | 252  | 1126049  | 20.13 | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.80 | 276  | 1351162  | 20.14 | ng/ul  | 99       |
| 90) Dibenzo(a,h)anthracene     | 25.81 | 278  | 1134239  | 20.06 | ng/ul  | 99       |
| 91) Benzo(g,h,i)perylene       | 26.50 | 276  | 1123577  | 19.98 | ng/ul  | 98       |

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