

**Instrument :**  
BNA\_M  
**LabSampleId :**  
SSTD02052

sohil  
12/15/2016 5:37:36 PM

[illegible]

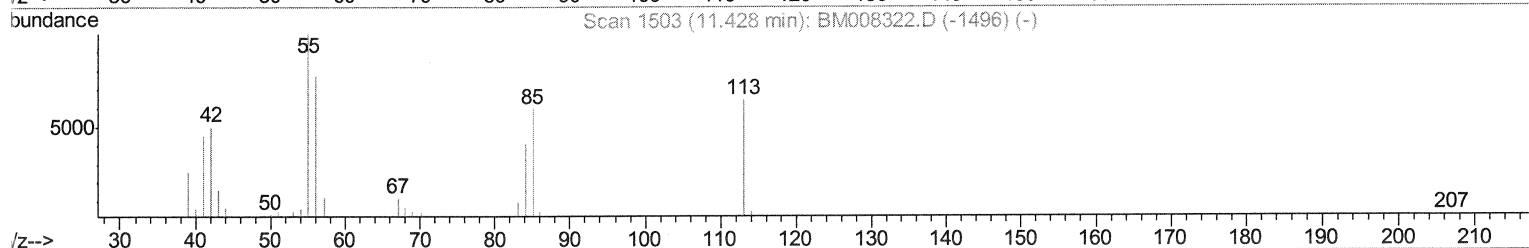
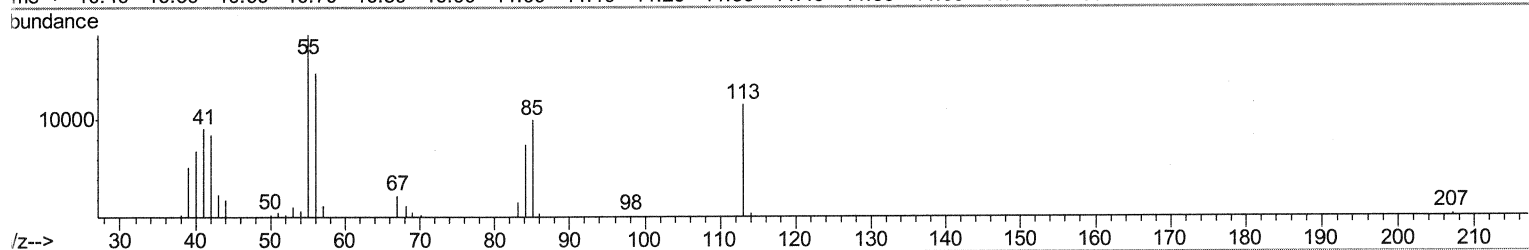
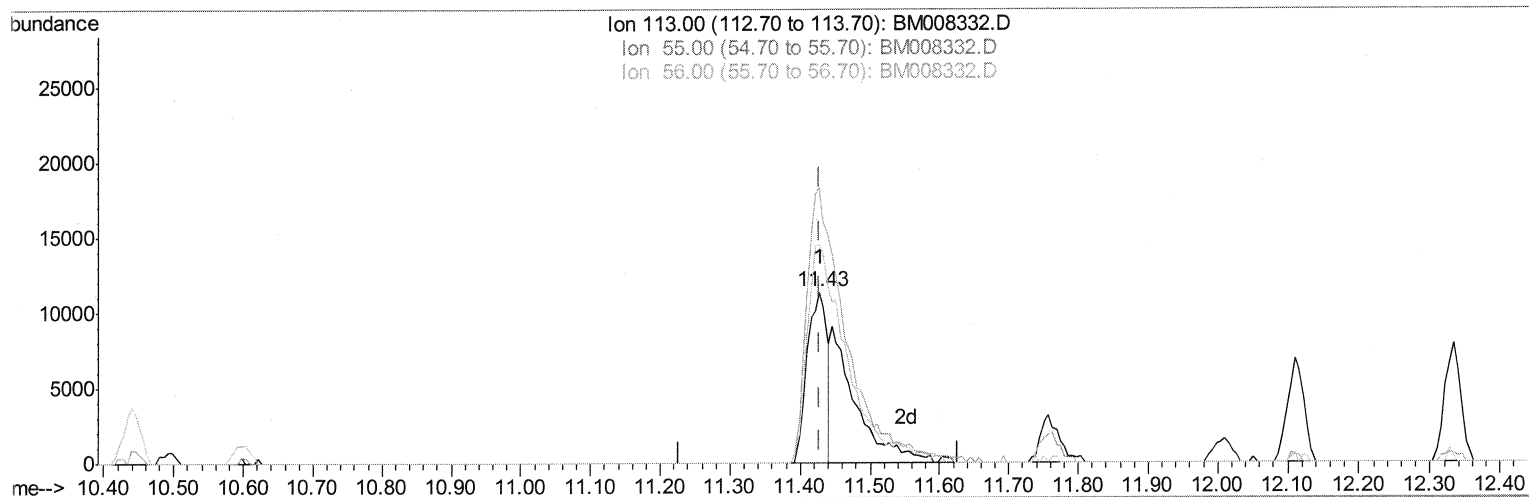
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121416\  
Data File : BM008332.D  
Acq On : 15 Dec 2016 05:13  
Operator : UM/SJ  
Sample : SSTDCCC020EC  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
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LabSampleId :  
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Manual Integrations  
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Quant Time: Dec 15 05:51:39 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 15 02:56:44 2016  
Response via : Initial Calibration



TIC: BM008332.D

(32) Caprolactam

11.427min (-0.000) 8.75ng/ul

response 22079

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100    | 100    |
| 55.00  | 157.60 | 161.27 |
| 56.00  | 114.10 | 127.39 |
| 0.00   | 0.00   | 0.00   |

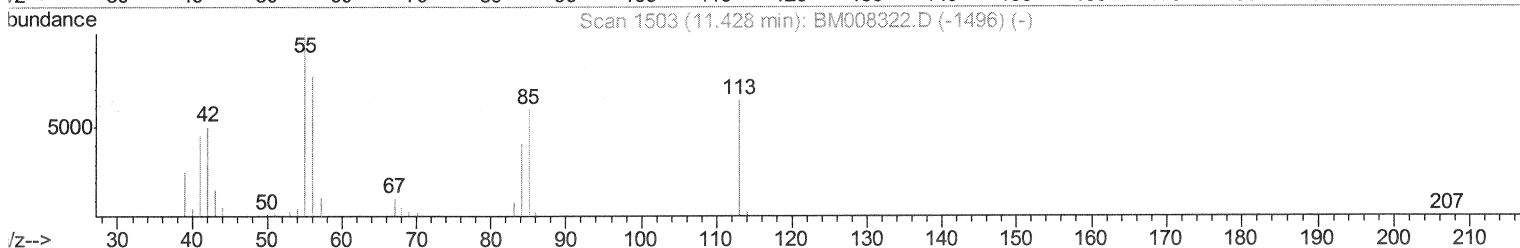
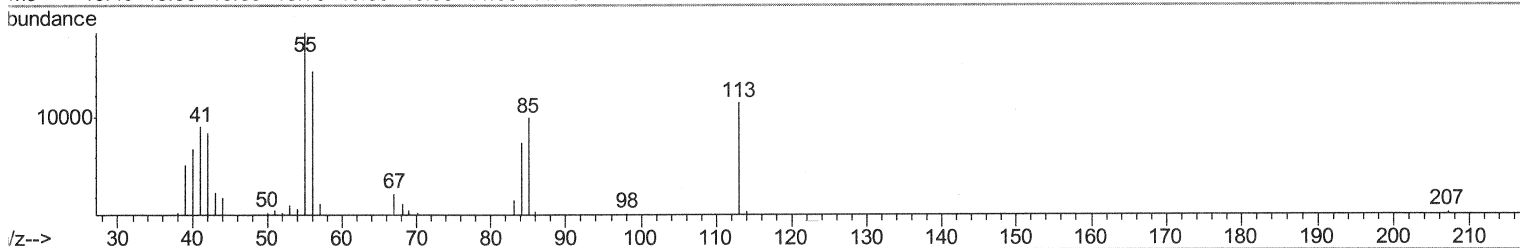
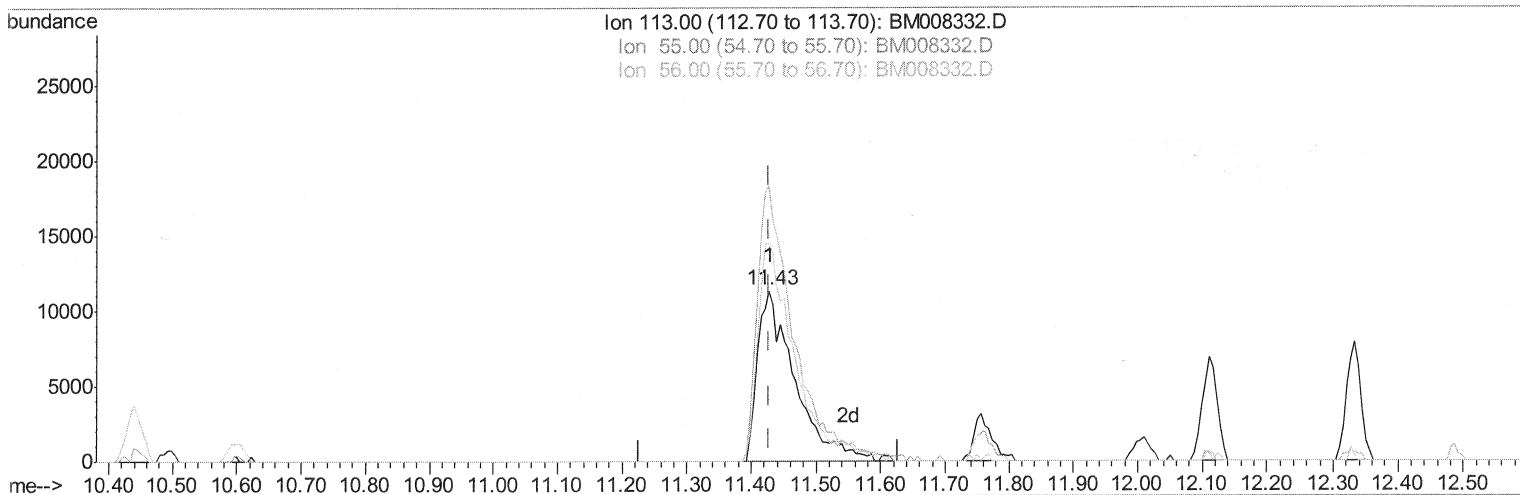
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TIC: BM008332.D

(32) Caprolactam

11.427min (-0.000) 17.91ng/ul m

51 12/15/16

response 45178

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100    | 100    |
| 55.00  | 157.60 | 161.27 |
| 56.00  | 114.10 | 127.39 |
| 0.00   | 0.00   | 0.00   |

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Manual Integrations  
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 12/15/2016 5:37:36 PM

Quant Time: Dec 15 06:02:02 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-2016\SOM02.2-EPA-BM121416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 15 02:56:44 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 133328   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.44 | 136  | 543761   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.31 | 164  | 358915   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.06 | 188  | 644616   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.26 | 240  | 727839   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.50 | 264  | 711486   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.23  | 96  | 23091  | 8.15  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.86  | 99  | 214999 | 20.79 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.02  | 67  | 130310 | 21.92 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.20  | 132 | 168868 | 21.70 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.38  | 113 | 170486 | 21.28 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.83  | 128 | 84518  | 21.51 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.55  | 143 | 94024  | 21.59 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.08 | 165 | 174126 | 21.82 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.60 | 131 | 205469 | 22.46 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.73 | 166 | 493474 | 20.68 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.00 | 160 | 610936 | 21.67 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.56 | 143 | 54572  | 15.53 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.31 | 176 | 429993 | 20.73 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.46 | 200 | 68495  | 17.85 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.16 | 188 | 611560 | 21.78 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.46 | 212 | 652778 | 23.22 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.35 | 264 | 657200 | 22.00 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |       | Qvalue    |
|--------------------------------|-------|-----|--------|-------|-----------|
| 2) 1,4-Dioxane                 | 3.27  | 88  | 26873  | 8.11  | ng/uL 98  |
| 4) Benzaldehyde                | 6.83  | 77  | 160033 | 23.38 | ng/ul 91  |
| 6) Phenol                      | 6.88  | 94  | 222863 | 20.75 | ng/ul 99  |
| 8) Bis(2-Chloroethyl)ether     | 7.10  | 93  | 170686 | 21.29 | ng/ul 97  |
| 10) 2-Chlorophenol             | 7.24  | 128 | 169664 | 21.59 | ng/ul 99  |
| 11) 2-Methylphenol             | 8.12  | 108 | 167681 | 21.33 | ng/ul 95  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.20  | 45  | 202740 | 22.24 | ng/ul 97  |
| 14) Acetophenone               | 8.49  | 105 | 281055 | 21.46 | ng/ul 99  |
| 15) N-Nitroso-di-n-propylamine | 8.47  | 70  | 150135 | 22.31 | ng/ul 98  |
| 16) 4-Methylphenol             | 8.45  | 108 | 180798 | 21.21 | ng/ul 98  |
| 17) Hexachloroethane           | 8.72  | 117 | 77472  | 21.61 | ng/ul 98  |
| 20) Nitrobenzene               | 8.87  | 77  | 216130 | 21.33 | ng/ul 98  |
| 21) Isophorone                 | 9.39  | 82  | 396131 | 21.75 | ng/ul 100 |
| 23) 2-Nitrophenol              | 9.57  | 139 | 97793  | 21.96 | ng/ul 98  |
| 24) 2,4-Dimethylphenol         | 9.63  | 107 | 217072 | 21.82 | ng/ul 95  |
| 25) Bis(2-Chloroethoxy)methane | 9.87  | 93  | 231428 | 22.37 | ng/ul 99  |
| 27) 2,4-Dichlorophenol         | 10.10 | 162 | 172740 | 21.48 | ng/ul 97  |
| 28) Naphthalene                | 10.49 | 128 | 553826 | 21.52 | ng/ul 99  |
| 30) 4-Chloroaniline            | 10.62 | 127 | 207039 | 22.46 | ng/ul 98  |
| 31) Hexachlorobutadiene        | 10.76 | 225 | 140592 | 21.51 | ng/ul 96  |
| 32) Caprolactam                | 11.43 | 113 | 45178m | 17.91 | ng/ul     |
| 33) 4-Chloro-3-methylphenol    | 11.76 | 107 | 184146 | 21.16 | ng/ul 99  |
| 34) 2-Methylnaphthalene        | 12.11 | 142 | 398666 | 21.43 | ng/ul 99  |

SJ 12/15/16

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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.49 | 216  | 246943   | 21.98 | ng/ul  | 98       |
| 37) Hexachlorocyclopentadiene  | 12.45 | 237  | 81819    | 18.03 | ng/ul  | 96       |
| 38) 2,4,6-Trichlorophenol      | 12.74 | 196  | 138758   | 21.75 | ng/ul  | 98       |
| 39) 2,4,5-Trichlorophenol      | 12.83 | 196  | 144613   | 20.78 | ng/ul  | 98       |
| 40) 1,1'-Biphenyl              | 13.13 | 154  | 525747   | 21.96 | ng/ul  | 98       |
| 41) 2-Chloronaphthalene        | 13.17 | 162  | 401480   | 21.87 | ng/ul  | 96       |
| 42) 2-Nitroaniline             | 13.41 | 65   | 113042   | 20.82 | ng/ul  | 95       |
| 44) Dimethylphthalate          | 13.77 | 163  | 491649   | 21.03 | ng/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 13.91 | 165  | 93753    | 20.58 | ng/ul  | 98       |
| 47) Acenaphthylene             | 14.03 | 152  | 625154   | 21.79 | ng/ul  | 99       |
| 48) 3-Nitroaniline             | 14.25 | 138  | 83703    | 18.44 | ng/ul  | 93       |
| 49) Acenaphthene               | 14.37 | 153  | 420886   | 21.34 | ng/ul  | 98       |
| 50) 2,4-Dinitrophenol          | 14.48 | 184  | 36617    | 13.86 | ng/ul  | 96       |
| 52) 4-Nitrophenol              | 14.57 | 109  | 50084    | 14.85 | ng/ul  | 97       |
| 53) Dibenzofuran               | 14.71 | 168  | 606317   | 21.09 | ng/ul  | 100      |
| 54) 2,4-Dinitrotoluene         | 14.72 | 165  | 134544   | 19.72 | ng/ul# | 94       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.95 | 232  | 130903   | 20.37 | ng/ul  | 95       |
| 56) Diethylphthalate           | 15.14 | 149  | 471156   | 20.25 | ng/ul  | 99       |
| 58) Fluorene                   | 15.36 | 166  | 490846   | 20.79 | ng/ul  | 97       |
| 59) 4-Chlorophenyl-phenylether | 15.36 | 204  | 268093   | 21.36 | ng/ul  | 99       |
| 60) 4-Nitroaniline             | 15.42 | 138  | 78670    | 18.01 | ng/ul  | 96       |
| 63) 4,6-Dinitro-2-methylphenol | 15.48 | 198  | 71189    | 18.10 | ng/ul  | 98       |
| 64) N-Nitrosodiphenylamine     | 15.58 | 169  | 409631   | 23.35 | ng/ul  | 98       |
| 65) 4-Bromophenyl-phenylether  | 16.25 | 248  | 166641   | 23.55 | ng/ul  | 97       |
| 66) Hexachlorobenzene          | 16.37 | 284  | 181153   | 22.59 | ng/ul  | 98       |
| 67) Atrazine                   | 16.54 | 200  | 148293   | 20.62 | ng/ul  | 99       |
| 68) Pentachlorophenol          | 16.73 | 266  | 77812    | 17.94 | ng/ul  | 97       |
| 69) Phenanthrene               | 17.10 | 178  | 723916   | 21.91 | ng/ul  | 99       |
| 71) Anthracene                 | 17.20 | 178  | 739837   | 22.06 | ng/ul  | 100      |
| 72) Carbazole                  | 17.48 | 167  | 583821   | 19.77 | ng/ul  | 98       |
| 73) Di-n-butylphthalate        | 18.03 | 149  | 694253   | 21.02 | ng/ul  | 100      |
| 74) Fluoranthene               | 19.13 | 202  | 791439   | 19.51 | ng/ul  | 99       |
| 77) Pyrene                     | 19.50 | 202  | 819030   | 22.92 | ng/ul  | 99       |
| 78) Butylbenzylphthalate       | 20.40 | 149  | 288620   | 22.52 | ng/ul  | 97       |
| 79) 3,3'-Dichlorobenzidine     | 21.19 | 252  | 265515   | 20.82 | ng/ul  | 99       |
| 80) Benzo(a)anthracene         | 21.24 | 228  | 815414   | 21.68 | ng/ul  | 99       |
| 81) Bis(2-ethylhexyl)phthalate | 21.17 | 149  | 413881   | 22.05 | ng/ul  | 100      |
| 82) Chrysene                   | 21.30 | 228  | 784002   | 21.67 | ng/ul  | 100      |
| 84) Di-n-octyl phthalate       | 22.04 | 149  | 723135   | 21.18 | ng/ul  | 100      |
| 85) Benzo(b)fluoranthene       | 22.83 | 252  | 821128   | 21.38 | ng/ul  | 100      |
| 86) Benzo(k)fluoranthene       | 22.87 | 252  | 824694   | 22.44 | ng/ul  | 100      |
| 88) Benzo(a)pyrene             | 23.40 | 252  | 810006   | 21.89 | ng/ul  | 99       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.73 | 276  | 992324   | 22.09 | ng/ul  | 98       |
| 90) Dibenzo(a,h)anthracene     | 25.74 | 278  | 834940   | 22.13 | ng/ul  | 99       |
| 91) Benzo(g,h,i)perylene       | 26.42 | 276  | 830065   | 22.09 | ng/ul  | 99       |

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