

**Instrument :**  
BNA\_M  
**LabSampleId :**  
SSTD02065

mohammad  
11/27/2018 11:52:33 AM

[illegible]

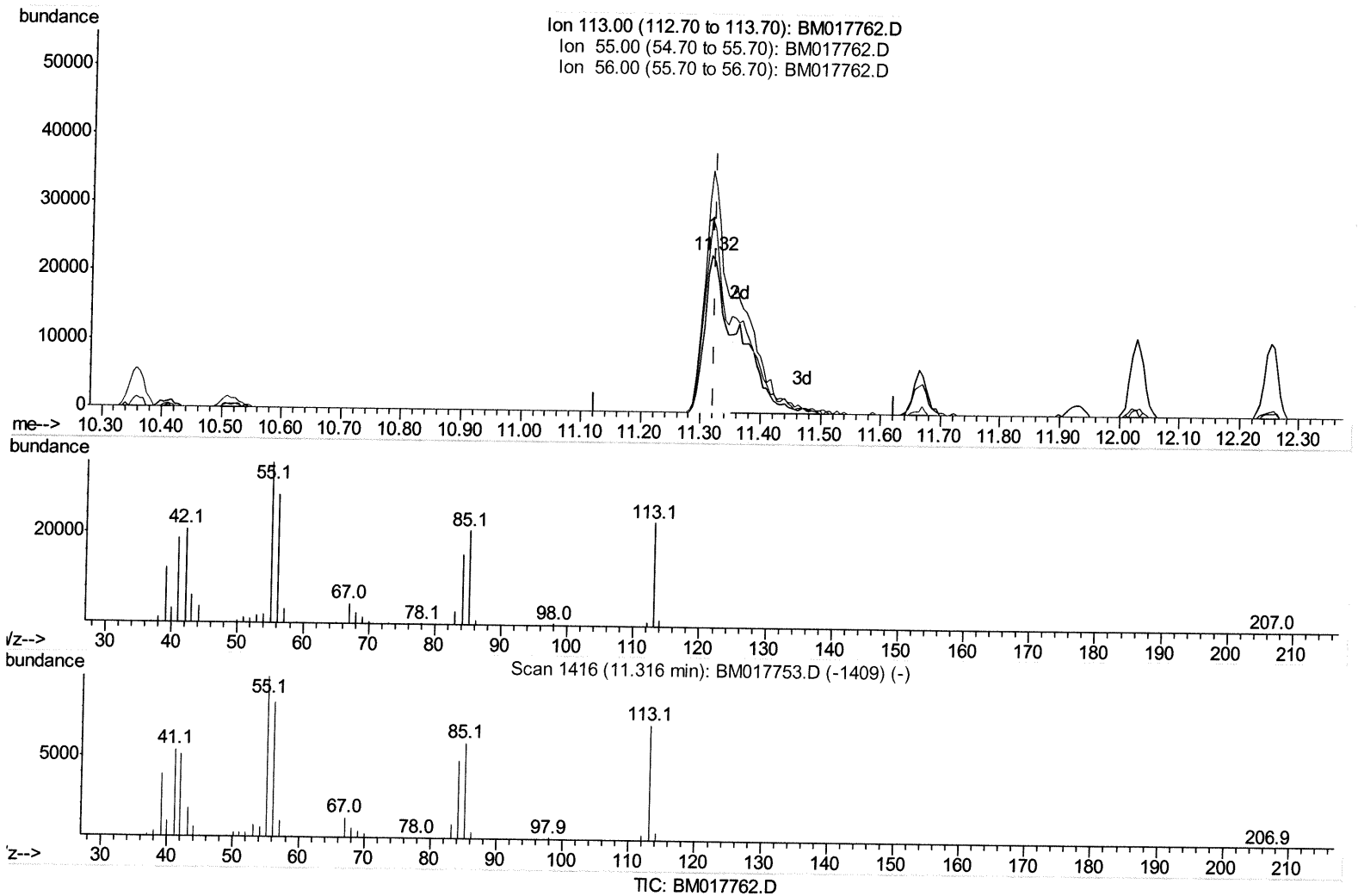
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112618\  
 Data File : BM017762.D  
 Acq On : 26 Nov 2018 10:41  
 Operator : MJ/SJ  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

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Manual Integrations  
 APPROVED

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Quant Time: Nov 26 14:49:49 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Nov 23 21:57:24 2018  
 Response via : Initial Calibration



(32) Caprolactam

11.316min (-0.006) 11.89ng/ul

response 55263

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100    | 100    |
| 55.00  | 138.30 | 153.41 |
| 56.00  | 110.30 | 123.59 |
| 0.00   | 0.00   | 0.00   |

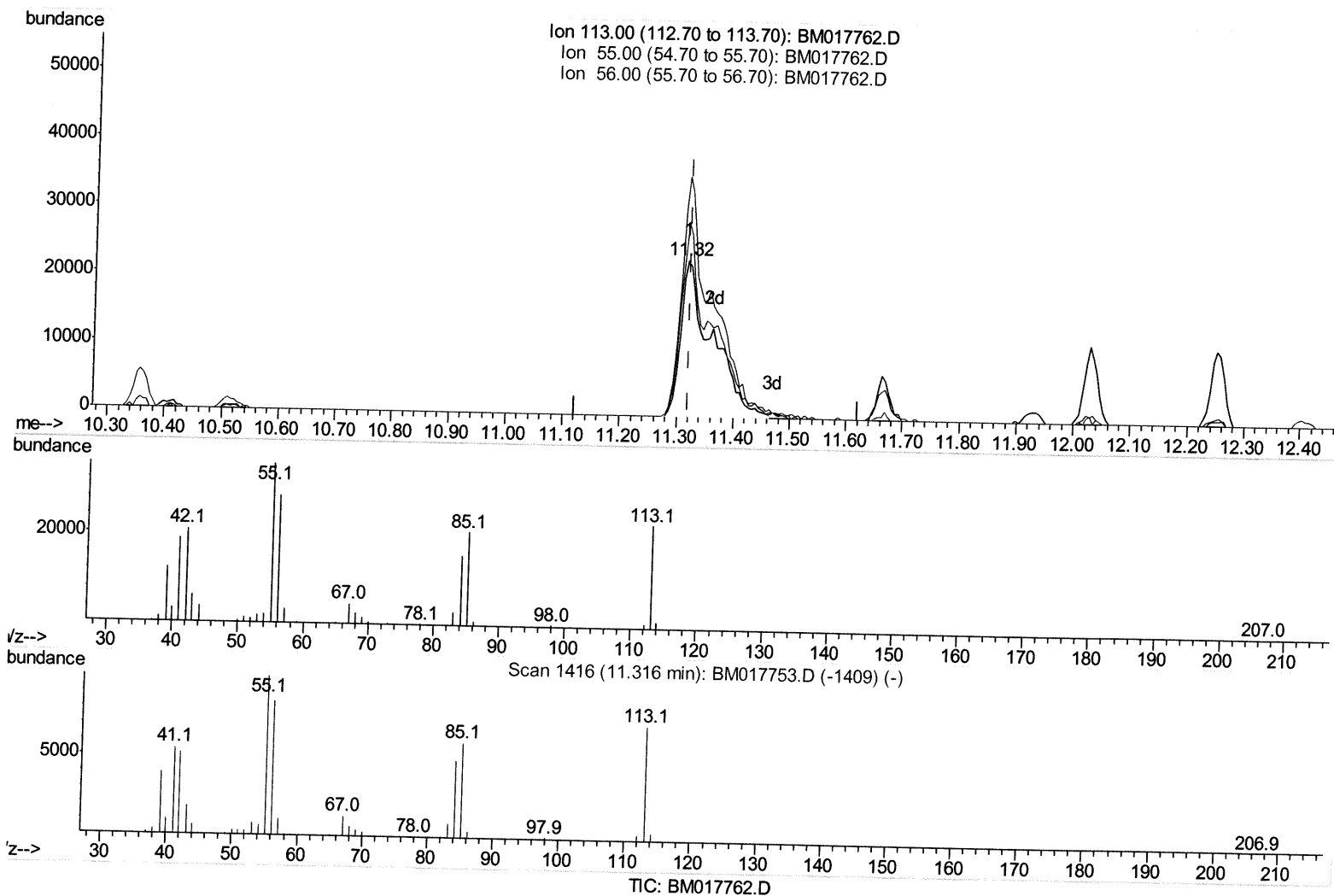
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(32) Caprolactam

11.316min (-0.006) 19.18ng/ul m

response 89106

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100    | 100    |
| 55.00  | 138.30 | 153.41 |
| 56.00  | 110.30 | 123.59 |
| 0.00   | 0.00   | 0.00   |

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| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.59  | 152  | 190819   | 20.00 | nq/ul | 0.00     |
| 18) Naphthalene-d8        | 10.36 | 136  | 887863   | 20.00 | nq/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.24 | 164  | 559250   | 20.00 | nq/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.99 | 188  | 1335593  | 20.00 | nq/ul | 0.00     |
| 77) Chrysene-d12          | 21.20 | 240  | 1549779  | 20.00 | nq/ul | 0.00     |
| 85) Perylene-d12          | 23.38 | 264  | 1533255  | 20.00 | ng/ul | 0.00     |

#### System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.18  | 96  | 33243   | 7.97  | nq/uL | 0.00  |
| 5) Phenol-d5                   | 6.78  | 99  | 336798  | 19.33 | nq/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.94  | 67  | 210530  | 20.03 | nq/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 278575  | 20.43 | nq/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.30  | 113 | 285647  | 20.06 | nq/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.75  | 128 | 134078  | 19.66 | nq/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.46  | 143 | 155520  | 19.90 | nq/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.99  | 165 | 300981  | 20.23 | nq/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.51 | 131 | 267902  | 20.99 | nq/ul | -0.01 |
| 43) Dimethylphthalate-d6       | 13.66 | 166 | 947755  | 19.53 | nq/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.93 | 160 | 1172770 | 19.97 | nq/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.46 | 143 | 152625  | 17.30 | nq/ul | 0.00  |
| 57) Fluorene-d10               | 15.24 | 176 | 820339  | 19.58 | nq/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.37 | 200 | 173966  | 18.22 | nq/ul | 0.00  |
| 70) Anthracene-d10             | 17.09 | 188 | 1312786 | 19.74 | nq/ul | 0.00  |
| 78) Pyrene-d10                 | 19.40 | 212 | 1476686 | 19.69 | nq/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.24 | 264 | 1635126 | 19.66 | ng/ul | 0.00  |

#### Target Compounds

|                                |       |     |        |        | Ovalue |     |
|--------------------------------|-------|-----|--------|--------|--------|-----|
| 2) 1,4-Dioxane                 | 3.22  | 88  | 33937  | 7.629  | nq/uL  | 97  |
| 4) Benzaldehyde                | 6.76  | 77  | 65607  | 20.189 | nq/ul  | 97  |
| 6) Phenol                      | 6.80  | 94  | 339426 | 19.512 | nq/ul  | 98  |
| 8) Bis(2-Chloroethyl)ether     | 7.03  | 93  | 260174 | 19.577 | nq/ul  | 97  |
| 10) 2-Chlorophenol             | 7.16  | 128 | 274062 | 20.116 | nq/ul  | 96  |
| 11) 2-Methylphenol             | 8.04  | 108 | 257186 | 19.378 | nq/ul  | 97  |
| 12) 2,2'-oxybis(1-Chloropropan | 8.12  | 45  | 304430 | 19.416 | nq/ul  | 98  |
| 14) Acetophenone               | 8.42  | 105 | 442650 | 19.944 | nq/ul  | 100 |
| 15) N-Nitroso-di-n-propylamine | 8.40  | 70  | 234562 | 20.263 | nq/ul  | 99  |
| 16) 4-Methylphenol             | 8.36  | 108 | 282344 | 19.686 | nq/ul  | 99  |
| 17) Hexachloroethane           | 8.65  | 117 | 109814 | 19.881 | nq/ul  | 98  |
| 20) Nitrobenzene               | 8.79  | 77  | 339247 | 19.819 | nq/ul  | 98  |
| 21) Isophorone                 | 9.31  | 82  | 638511 | 20.052 | nq/ul  | 100 |
| 23) 2-Nitrophenol              | 9.49  | 139 | 164856 | 20.272 | nq/ul  | 95  |
| 24) 2,4-Dimethylphenol         | 9.55  | 107 | 343683 | 20.231 | nq/ul  | 99  |
| 25) Bis(2-Chloroethoxy)methane | 9.79  | 93  | 387452 | 19.884 | nq/ul  | 100 |
| 27) 2,4-Dichlorophenol         | 10.02 | 162 | 280617 | 19.979 | nq/ul  | 99  |
| 28) Naphthalene                | 10.41 | 128 | 916254 | 19.807 | nq/ul  | 100 |
| 30) 4-Chloroaniline            | 10.53 | 127 | 271745 | 20.865 | nq/ul  | 97  |
| 31) Hexachlorobutadiene        | 10.69 | 225 | 184192 | 19.746 | nq/ul  | 99  |
| 32) Caprolactam                | 11.32 | 113 | 89106m | 19.175 | nq/ul  | 99  |
| 33) 4-Chloro-3-methylphenol    | 11.66 | 107 | 319991 | 20.060 | nq/ul  | 99  |
| 34) 2-Methylnaphthalene        | 12.03 | 142 | 691849 | 20.034 | ng/ul  | 97  |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 36) 1,2,4,5-Tetrachlorobenzene | 12.40 | 216  | 367289   | 19.683 | nq/ul  | 99       |
| 37) Hexachlorocyclopentadiene  | 12.37 | 237  | 209370   | 17.398 | nq/ul  | 99       |
| 38) 2,4,6-Trichlorophenol      | 12.66 | 196  | 236725   | 19.519 | nq/ul  | 97       |
| 39) 2,4,5-Trichlorophenol      | 12.73 | 196  | 246792   | 19.027 | nq/ul  | 99       |
| 40) 1,1'-Biphenyl              | 13.06 | 154  | 897666   | 19.499 | nq/ul  | 99       |
| 41) 2-Chloronaphthalene        | 13.10 | 162  | 706624   | 19.622 | nq/ul  | 100      |
| 42) 2-Nitroaniline             | 13.33 | 65   | 214008   | 20.407 | nq/ul  | 99       |
| 44) Dimethylphthalate          | 13.70 | 163  | 927081   | 19.720 | nq/ul  | 100      |
| 45) 2,6-Dinitrotoluene         | 13.83 | 165  | 186813   | 20.223 | nq/ul  | 99       |
| 47) Acenaphthylene             | 13.96 | 152  | 1092994  | 19.928 | nq/ul  | 99       |
| 48) 3-Nitroaniline             | 14.16 | 138  | 171281   | 19.436 | nq/ul  | 97       |
| 49) Acenaphthene               | 14.30 | 153  | 776738   | 19.651 | nq/ul  | 99       |
| 50) 2,4-Dinitrophenol          | 14.37 | 184  | 101701   | 16.238 | nq/ul  | 95       |
| 52) 4-Nitrophenol              | 14.48 | 109  | 137925   | 19.007 | nq/ul  | 98       |
| 53) Dibenzofuran               | 14.64 | 168  | 1099928  | 19.665 | nq/ul  | 99       |
| 54) 2,4-Dinitrotoluene         | 14.63 | 165  | 283378   | 20.260 | nq/ul# | 95       |
| 55) 2,3,4,6-Tetrachlorophenol  | 14.87 | 232  | 238710   | 19.960 | nq/ul# | 98       |
| 56) Diethylphthalate           | 15.08 | 149  | 963081   | 19.886 | nq/ul  | 100      |
| 58) Fluorene                   | 15.29 | 166  | 928881   | 19.914 | nq/ul  | 99       |
| 59) 4-Chlorophenyl-phenylether | 15.29 | 204  | 472191   | 19.708 | nq/ul  | 100      |
| 60) 4-Nitroaniline             | 15.33 | 138  | 174771   | 17.839 | nq/ul  | 98       |
| 63) 4,6-Dinitro-2-methylphenol | 15.39 | 198  | 184193   | 18.719 | nq/ul  | 99       |
| 64) N-Nitrosodiphenylamine     | 15.51 | 169  | 807178   | 19.630 | nq/ul  | 97       |
| 65) 4-Bromophenyl-phenylether  | 16.19 | 248  | 294816   | 19.317 | nq/ul  | 93       |
| 66) Hexachlorobenzene          | 16.29 | 284  | 330328   | 19.472 | nq/ul  | 96       |
| 67) Atrazine                   | 16.47 | 200  | 290457   | 19.043 | nq/ul  | 98       |
| 68) Pentachlorophenol          | 16.65 | 266  | 191242   | 18.121 | nq/ul  | 97       |
| 69) Phenanthrene               | 17.03 | 178  | 1497398  | 19.605 | nq/ul  | 99       |
| 71) Anthracene                 | 17.13 | 178  | 1540507  | 19.722 | nq/ul  | 99       |
| 72) 1,2,3,4-Tetrachlorobenzene | 13.02 | 216  | 361951   | 19.123 | nq/uL  | 99       |
| 73) Pentachlorobenzene         | 14.56 | 250  | 374579   | 19.349 | nq/uL  | 98       |
| 74) Carbazole                  | 17.40 | 167  | 1337324  | 19.430 | nq/ul  | 99       |
| 75) Di-n-butylphthalate        | 17.97 | 149  | 1677878  | 19.290 | nq/ul  | 100      |
| 76) Fluoranthene               | 19.06 | 202  | 1777632  | 19.787 | nq/ul  | 98       |
| 79) Pyrene                     | 19.43 | 202  | 1855144  | 19.719 | nq/ul  | 100      |
| 80) Butylbenzylphthalate       | 20.34 | 149  | 800839   | 19.908 | nq/ul  | 97       |
| 81) 3,3'-Dichlorobenzidine     | 21.12 | 252  | 604886   | 18.960 | nq/ul  | 99       |
| 82) Benzo(a)anthracene         | 21.18 | 228  | 1901445  | 19.781 | nq/ul  | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 21.12 | 149  | 1203066  | 20.196 | nq/ul  | 99       |
| 84) Chrysene                   | 21.23 | 228  | 1799555  | 20.017 | nq/ul  | 99       |
| 86) Di-n-octyl phthalate       | 21.99 | 149  | 2036867  | 18.967 | nq/ul  | 100      |
| 87) Benzo(b)fluoranthene       | 22.73 | 252  | 1862461  | 19.542 | nq/ul  | 100      |
| 88) Benzo(k)fluoranthene       | 22.77 | 252  | 1820355  | 19.653 | nq/ul  | 99       |
| 90) Benzo(a)pyrene             | 23.29 | 252  | 1771951  | 19.606 | nq/ul  | 99       |
| 91) Indeno(1,2,3-cd)pyrene     | 25.56 | 276  | 1836220  | 19.174 | nq/ul  | 100      |
| 92) Dibenzo(a,h)anthracene     | 25.57 | 278  | 1529120  | 18.912 | nq/ul  | 99       |
| 93) Benzo(g,h,i)perylene       | 26.22 | 276  | 1499261  | 19.371 | nq/ul  | 98       |

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