

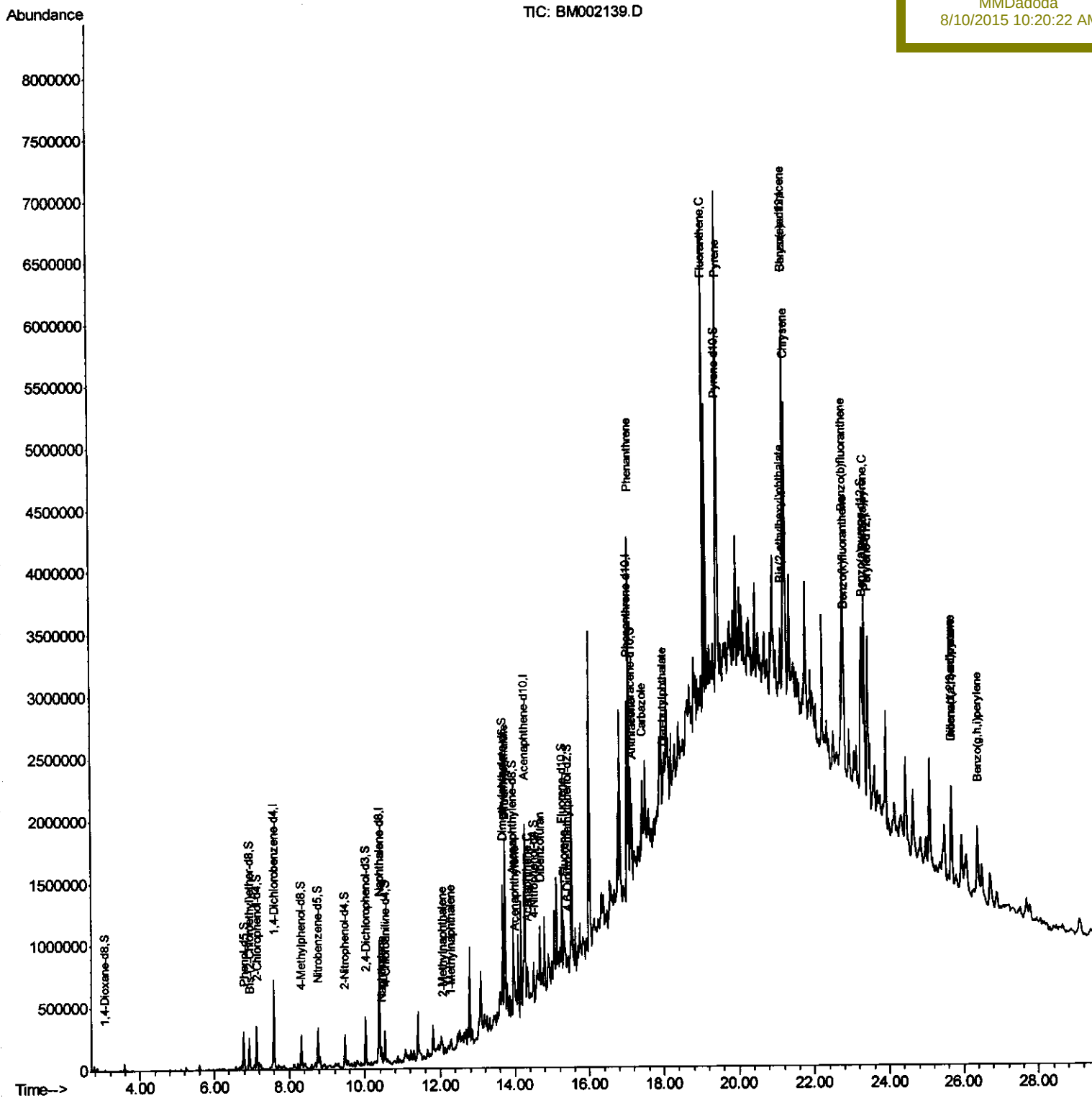
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM073015\  
Data File : BM002139.D  
Acq On : 30 Jul 2015 16:42  
Operator : TP/UM  
Sample : G3048-07RE  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 31 02:55:16 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM072715.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Jul 31 01:27:14 2015  
Response via : Initial Calibration

**Instrument :**  
BNA\_M  
**ClientSampleId :**  
C01X0RE

## Manual Integrations

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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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

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| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.60  | 152  | 196348   | 20.00 | ng/ul | 0.01     |
| 18) Naphthalene-d8        | 10.39 | 136  | 797058   | 20.00 | ng/ul | 0.01     |
| 36) Acenaphthene-d10      | 14.27 | 164  | 429314   | 20.00 | ng/ul | 0.02     |
| 62) Phenanthrene-d10      | 17.02 | 188  | 850884   | 20.00 | ng/ul | 0.02     |
| 78) Chrysene-d12          | 21.23 | 240  | 988736   | 20.00 | ng/ul | 0.03     |
| 86) Perylene-d12          | 23.45 | 264  | 975150   | 20.00 | ng/ul | 0.05     |

#### System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.06  | 96  | 7059   | 1.86  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.79  | 99  | 176935 | 12.61 | ng/ul | 0.02 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.93  | 67  | 107870 | 13.90 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 158997 | 13.36 | ng/ul | 0.01 |
| 13) 4-Methylphenol-d8          | 8.32  | 113 | 103700 | 9.29  | ng/ul | 0.02 |
| 19) Nitrobenzene-d5            | 8.76  | 128 | 78501  | 13.86 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.47  | 143 | 84014  | 13.34 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.02 | 165 | 148796 | 12.27 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.53 | 131 | 52752  | 3.96  | ng/ul | 0.01 |
| 44) Dimethylphthalate-d6       | 13.68 | 166 | 430643 | 13.69 | ng/ul | 0.01 |
| 47) Acenaphthylene-d8          | 13.96 | 160 | 495704 | 12.61 | ng/ul | 0.01 |
| 52) 4-Nitrophenol-d4           | 14.50 | 143 | 30490  | 5.81  | ng/ul | 0.02 |
| 58) Fluorene-d10               | 15.27 | 176 | 340756 | 12.32 | ng/ul | 0.02 |
| 63) 4,6-Dinitro-2-methylphenol | 15.42 | 200 | 9025   | 1.73  | ng/ul | 0.03 |
| 71) Anthracene-d10             | 17.12 | 188 | 476460 | 12.54 | ng/ul | 0.02 |
| 79) Pyrene-d10                 | 19.43 | 212 | 525523 | 12.63 | ng/ul | 0.03 |
| 90) Benzo(a)pyrene-d12         | 23.31 | 264 | 536071 | 11.34 | ng/ul | 0.05 |

| Target Compounds               |       |     |         |       |        | Qvalue |
|--------------------------------|-------|-----|---------|-------|--------|--------|
| 28) Naphthalene                | 10.44 | 128 | 100273  | 2.65  | ng/ul  | 98     |
| 34) 2-Methylnaphthalene        | 12.06 | 142 | 54173   | 1.97  | ng/ul  | 100    |
| 35) 1-Methylnaphthalene        | 12.29 | 142 | 42447   | 1.60  | ng/ul# | 96     |
| 45) Dimethylphthalate          | 13.73 | 163 | 192728  | 6.14  | ng/ul  | 100    |
| 48) Acenaphthylene             | 13.99 | 152 | 82244   | 2.03  | ng/ul# | 86     |
| 50) Acenaphthene               | 14.33 | 153 | 83124   | 3.13  | ng/ul  | 98     |
| 54) Dibenzofuran               | 14.67 | 168 | 73653   | 1.93  | ng/ul# | 86     |
| 59) Fluorene                   | 15.32 | 166 | 135197  | 4.29  | ng/ul# | 94     |
| 70) Phenanthrene               | 17.07 | 178 | 1688613 | 38.31 | ng/ul  | 99     |
| 72) Anthracene                 | 17.16 | 178 | 379039  | 8.41  | ng/ul  | 98     |
| 75) Carbazole                  | 17.43 | 167 | 97938   | 2.54  | ng/ul# | 80     |
| 76) Di-n-butylphthalate        | 17.99 | 149 | 102252  | 2.23  | ng/ul# | 88     |
| 77) Fluoranthene               | 19.10 | 202 | 2397411 | 47.11 | ng/ul  | 99     |
| 80) Pyrene                     | 19.47 | 202 | 2392513 | 44.47 | ng/ul  | 98     |
| 83) Benzo(a)anthracene         | 21.22 | 228 | 1272495 | 23.22 | ng/ul  | 96     |
| 84) Bis(2-ethylhexyl)phthalate | 21.13 | 149 | 67791   | 2.15  | ng/ul# | 79     |
| 85) Chrysene                   | 21.27 | 228 | 1237053 | 24.12 | ng/ul  | 96     |
| 88) Benzo(b)fluoranthene       | 22.79 | 252 | 1548109 | 28.25 | ng/ul# | 94     |
| 89) Benzo(k)fluoranthene       | 22.82 | 252 | 420979m | 7.96  | ng/ul  |        |
| 91) Benzo(a)pyrene             | 23.36 | 252 | 1092919 | 20.66 | ng/ul# | 96     |
| 92) Indeno(1,2,3-cd)pyrene     | 25.69 | 276 | 725653  | 11.91 | ng/ul  | 96     |
| 93) Dibenzo(a,h)anthracene     | 25.68 | 278 | 211635  | 4.06  | ng/ul# | 87     |
| 94) Benzo(g,h,i)perylene       | 26.38 | 276 | 670164  | 13.12 | ng/ul  | 96     |

S.T.P  
 08/05/15

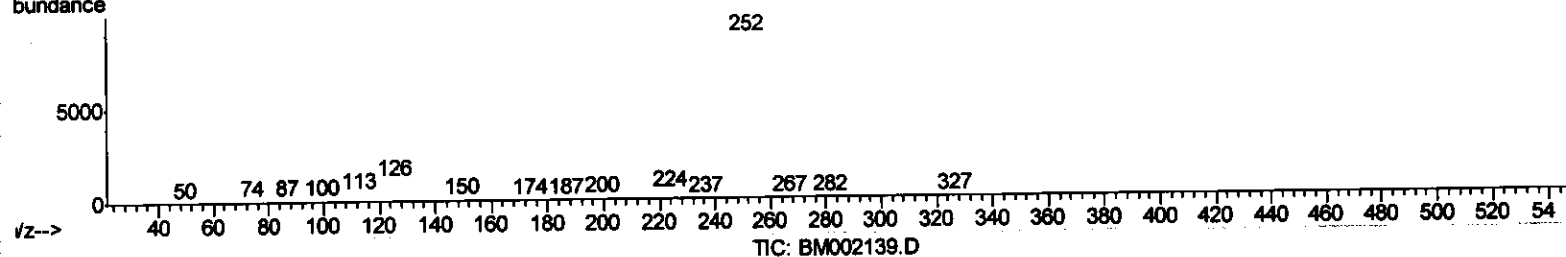
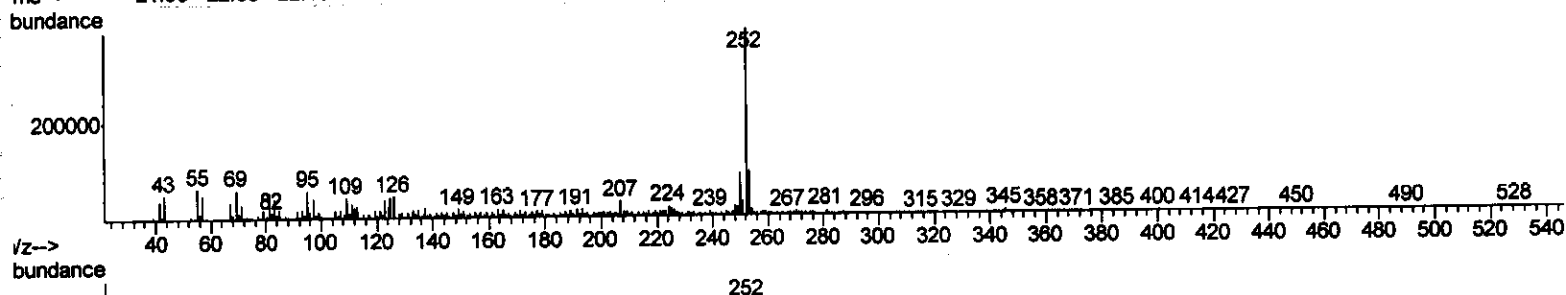
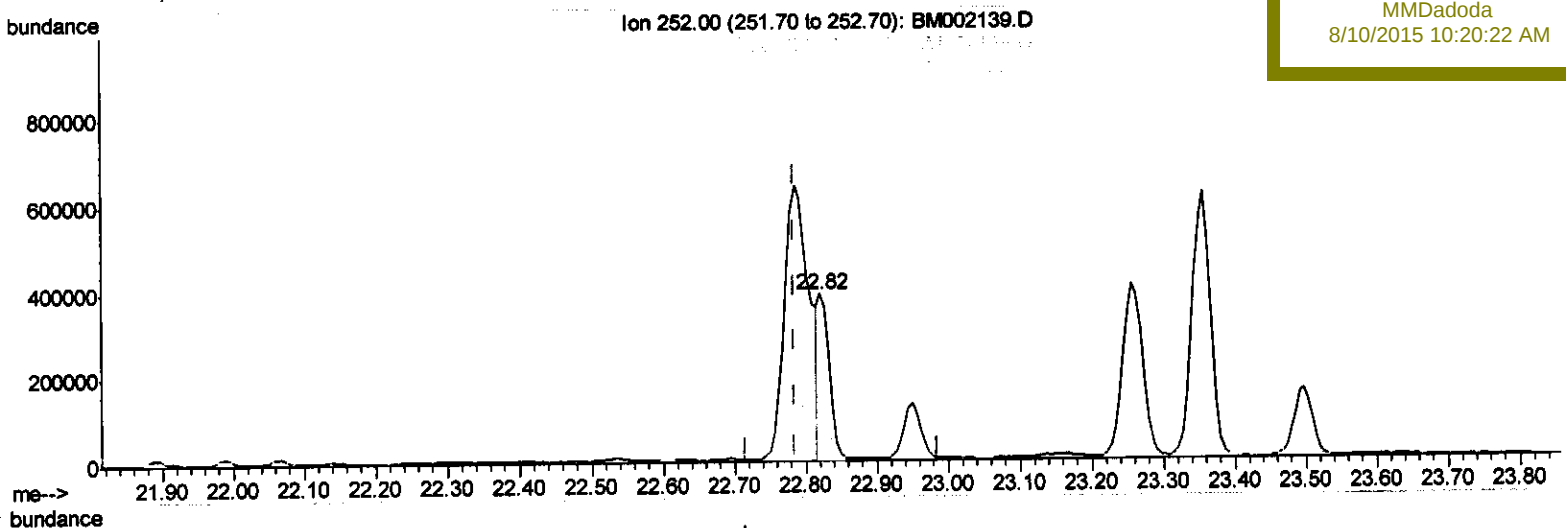
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(89) Benzo(k)fluoranthene  
 22.821min (+0.035) 7.96ng/ul m  
 response 420979

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 21.70 | 23.97  |
| 125.00 | 7.80  | 11.35# |
| 0.00   | 0.00  | 0.00   |

T.P  
 08/05/2015

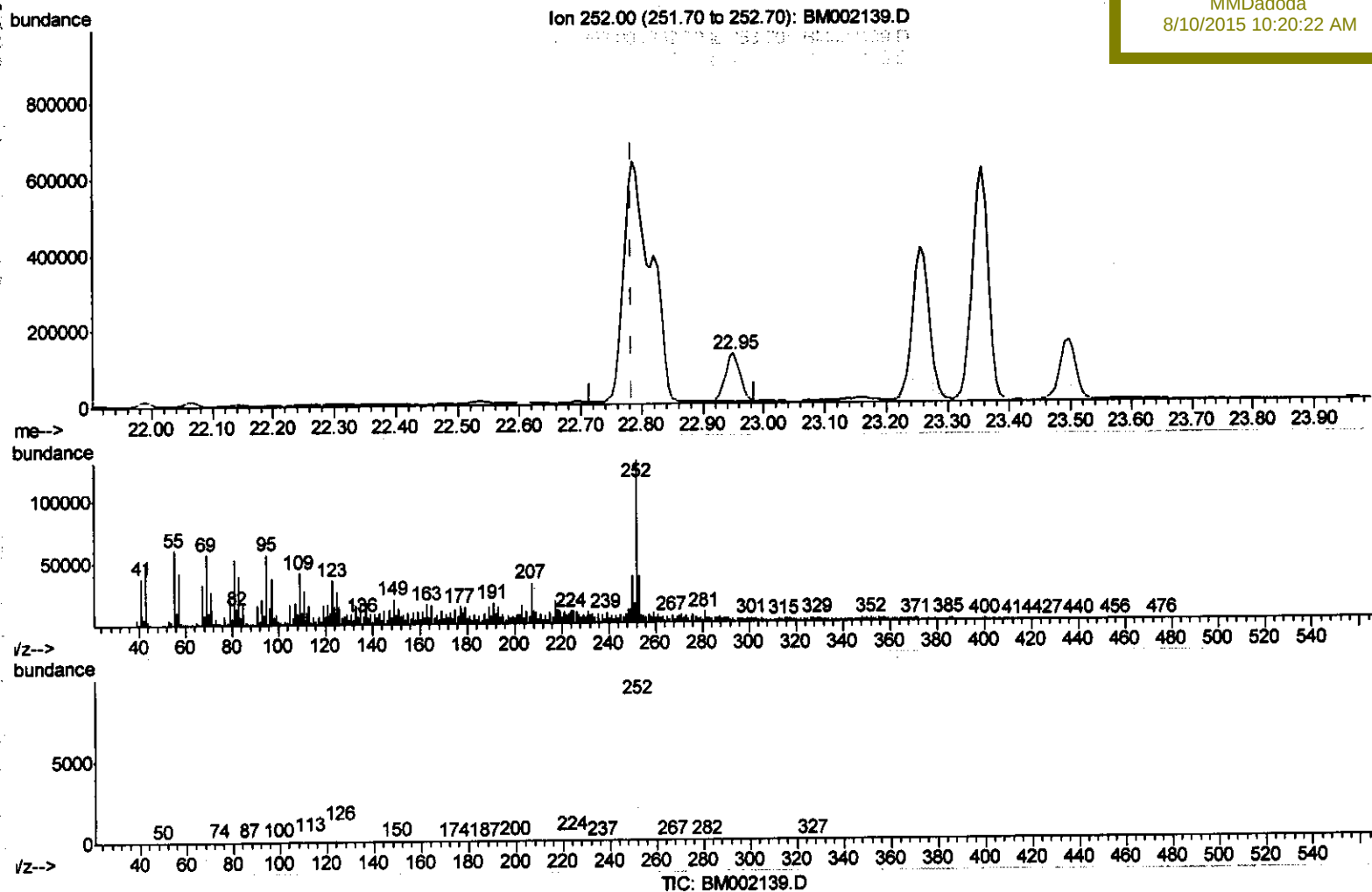
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(89) Benzo(k)fluoranthene

22.950min (+0.165) 3.97ng/ul

response 209701

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 21.70 | 29.19# |
| 125.00 | 7.80  | 20.20# |
| 0.00   | 0.00  | 0.00   |