

## 1.1 Radiated Emissions OATS

Name of EUT: 8500 Cordless Telephone  
Serial Number:  
Temperature: 22°C  
Product Class: B  
Test Specification: CFR 47, Part 15  
File Number: 98083

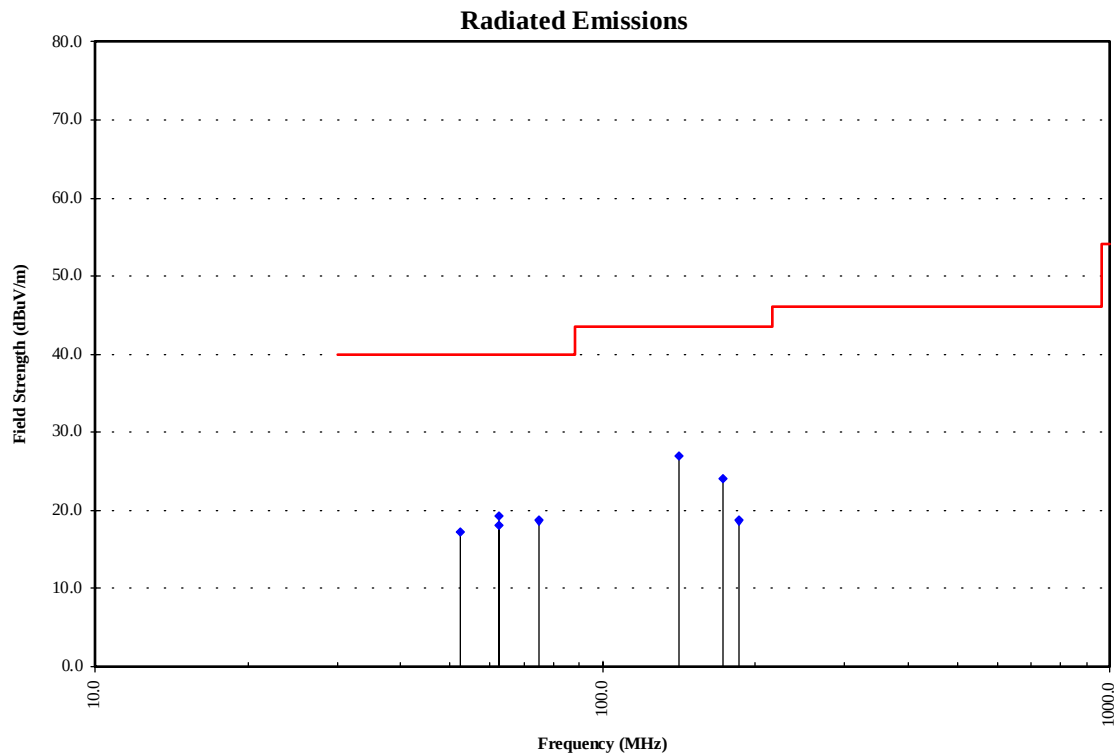
Date of Test: Sept. 11, 1998  
Relative Humidity: 55%  
Test Facility: Open Area Test Site  
Measurement Distance: 3 Meters  
Test Engineer: T. Donnelly

| Freq.<br>(MHz) | EUT<br>Azimuth<br>(Degrees) | Antenna<br>Height<br>(cm) | Antenna<br>Polarity<br>(H/V) | Meter<br>Reading<br>(dBuV) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Ambient<br>Level<br>(dBuV/m) | Field<br>Intensity<br>(dBuV/m) | Spec Limit<br>(dBuV/m) | Margin<br>(dB) |
|----------------|-----------------------------|---------------------------|------------------------------|----------------------------|-----------------------|-----------------------------|------------------------------|--------------------------------|------------------------|----------------|
| 52.50          | 129.0                       | 202                       | V                            | 5.0                        | 1.8                   | 10.4                        | 0*                           | 17.3                           | 40.0                   | 22.7           |
| 62.62          | 360.0                       | 143                       | H                            | 8.1                        | 2.0                   | 9.1                         | 0*                           | 19.2                           | 40.0                   | 20.8           |
| 62.62          | 216.6                       | 131                       | V                            | 7.0                        | 2.0                   | 9.1                         | 0*                           | 18.1                           | 40.0                   | 21.9           |
| 75.01          | 60.0                        | 305                       | V                            | 8.6                        | 2.2                   | 8.0                         | 0*                           | 18.7                           | 40.0                   | 21.3           |
| 141.01         | 360.0                       | 135                       | H                            | 11.2                       | 2.9                   | 12.8                        | 0*                           | 26.9                           | 43.5                   | 16.6           |
| 173.02         | 0.0                         | 100                       | H                            | 8.6                        | 3.2                   | 12.3                        | 0*                           | 24.1                           | 43.5                   | 19.4           |
| 185.02         | 358.2                       | 166                       | H                            | 2.7                        | 3.3                   | 12.8                        | 0*                           | 18.7                           | 43.5                   | 24.8           |

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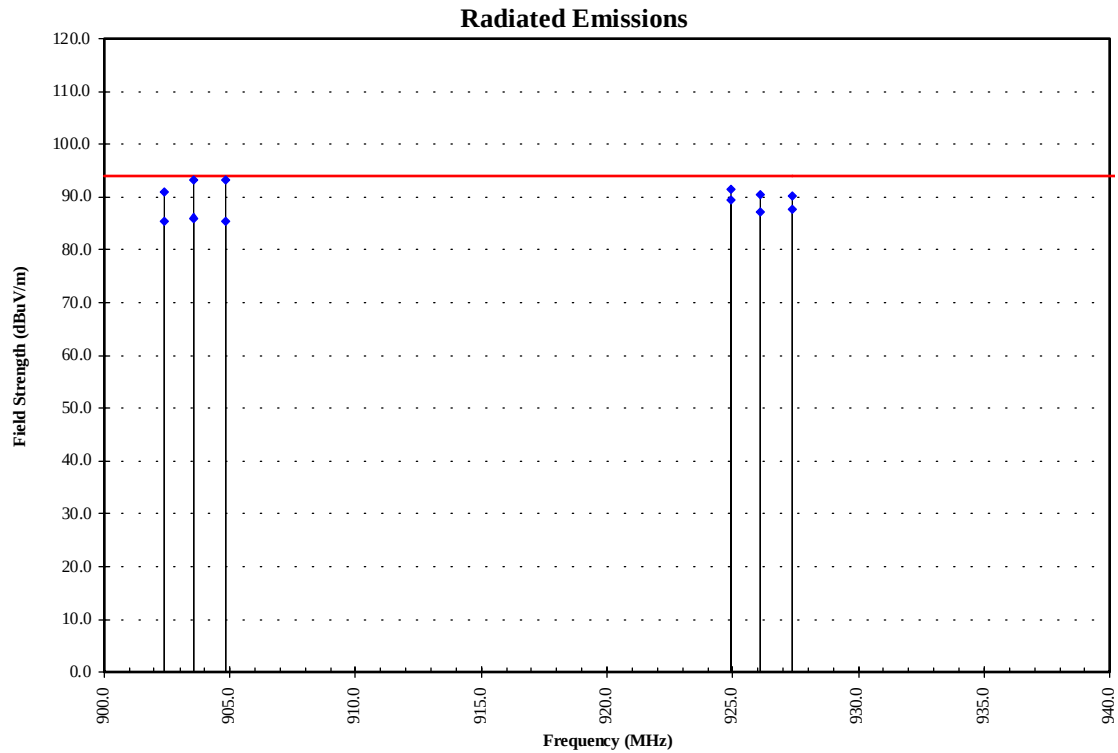
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Relative Humidity: 55%  
Test Facility: Open Area Test Site  
Measurement Distance: 3 Meters  
Test Engineer: T. Donnelly

| Freq.<br>(MHz) | EUT<br>Azimuth<br>(Degrees) | Antenna<br>Height<br>(cm) | Antenna<br>Polarity<br>(H/V) | Meter<br>Reading<br>(dBuV) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Ambient<br>Level<br>(dBuV/m) | Field<br>Intensity<br>(dBuV/m) | Spec Limit<br>(dBuV/m) | Margin<br>(dB) |
|----------------|-----------------------------|---------------------------|------------------------------|----------------------------|-----------------------|-----------------------------|------------------------------|--------------------------------|------------------------|----------------|
| 902.40         | 162.6                       | 194                       | H                            | 52.6                       | 6.5                   | 26.3                        | 0*                           | 85.4                           | 94.0                   | 8.6            |
| 902.40         | 231.6                       | 100                       | V                            | 58.1                       | 6.5                   | 26.3                        | 0*                           | 90.9                           | 94.0                   | 3.1            |
| 903.55         | 93.0                        | 100                       | V                            | 60.5                       | 6.6                   | 26.3                        | 0*                           | 93.3                           | 94.0                   | 0.7            |
| 903.55         | 177.6                       | 100                       | H                            | 53.3                       | 6.6                   | 26.3                        | 0*                           | 86.1                           | 94.0                   | 7.9            |
| 904.83         | 180.0                       | 100                       | H                            | 52.5                       | 6.6                   | 26.3                        | 0*                           | 85.4                           | 94.0                   | 8.6            |
| 904.83         | 342.6                       | 100                       | V                            | 60.3                       | 6.6                   | 26.3                        | 0*                           | 93.2                           | 94.0                   | 0.8            |
| 924.93         | 315.0                       | 179                       | V                            | 58.0                       | 6.7                   | 26.7                        | 0*                           | 91.4                           | 94.0                   | 2.6            |
| 924.93         | 58.8                        | 158                       | H                            | 56.2                       | 6.7                   | 26.7                        | 0*                           | 89.6                           | 94.0                   | 4.4            |
| 926.08         | 332.4                       | 100                       | V                            | 57.1                       | 6.7                   | 26.7                        | 0*                           | 90.5                           | 94.0                   | 3.5            |
| 926.08         | 57.0                        | 100                       | H                            | 53.8                       | 6.7                   | 26.7                        | 0*                           | 87.2                           | 94.0                   | 6.8            |
| 927.36         | 66.6                        | 161                       | H                            | 54.2                       | 6.7                   | 26.8                        | 0*                           | 87.6                           | 94.0                   | 6.4            |
| 927.36         | 339.0                       | 100                       | V                            | 56.7                       | 6.7                   | 26.8                        | 0*                           | 90.1                           | 94.0                   | 3.9            |

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| Freq.<br>(MHz)      | EUT<br>Azimuth<br>(Degrees) | Antenna<br>Height<br>(cm) | Antenna<br>Polarity<br>(H/V) | Meter<br>Reading<br>(dBuV) | Cable<br>Loss<br>(dB) | Antenna<br>Factor<br>(dB/m) | Ambient<br>Level<br>(dBuV/m) | Field<br>Intensity<br>(dBuV/m) | Spec Limit<br>(dBuV/m) | Margin<br>(dB) |
|---------------------|-----------------------------|---------------------------|------------------------------|----------------------------|-----------------------|-----------------------------|------------------------------|--------------------------------|------------------------|----------------|
| Channel 1, Handset  |                             |                           |                              |                            |                       |                             |                              |                                |                        |                |
| 1808.0              | 33.0                        | 156.0                     | V                            | 11.0                       | 0.0                   | 27.0                        | 0*                           | 38.0                           | 54                     | 16.0           |
| 1808.0              | 316.0                       | 268.0                     | H                            | 8.0                        | 0.0                   | 27.0                        | 0*                           | 35.0                           | 54                     | 19.0           |
| 2714.0              | 329.0                       | 268.0                     | H                            | 14.0                       | 0.0                   | 29.0                        | 0*                           | 43.0                           | 54                     | 11.0           |
| 2714.0              | 153.0                       | 324.0                     | V                            | 10.0                       | 0.0                   | 29.0                        | 0*                           | 39.0                           | 54                     | 15.0           |
| 3621.0              | 166.0                       | 126.0                     | H                            | 7.0                        | 0.0                   | 31.3                        | 0*                           | 38.3                           | 54                     | 15.7           |
| Channel 1, Base     |                             |                           |                              |                            |                       |                             |                              |                                |                        |                |
| 1850.0              | 12.0                        | 149.0                     | V                            | 11.0                       | 0.0                   | 27.2                        | 0*                           | 38.2                           | 54.0                   | 15.8           |
| 2775.0              | 164.0                       | 126.0                     | V                            | 14.0                       | 0.0                   | 29.2                        | 0*                           | 43.2                           | 54.0                   | 10.8           |
| 2775.0              | 344.0                       | 302.0                     | H                            | 11.0                       | 0.0                   | 29.2                        | 0*                           | 40.2                           | 54.0                   | 13.8           |
| Channel 10, Handset |                             |                           |                              |                            |                       |                             |                              |                                |                        |                |
| 1890.0              | 148.0                       | 149.0                     | H                            | 15.0                       | 0.0                   | 27.4                        | 0*                           | 42.4                           | 54.0                   | 11.6           |
| 1890.0              | 106.0                       | 122.0                     | V                            | 22.0                       | 0.0                   | 27.4                        | 0*                           | 49.4                           | 54.0                   | 4.6            |
| 2711.0              | 358.0                       | 141.0                     | V                            | 23.0                       | 0.0                   | 29.0                        | 0*                           | 52.0                           | 54.0                   | 2.0            |
| 2711.0              | 224.0                       | 149.0                     | H                            | 19.0                       | 0.0                   | 29.0                        | 0*                           | 48.0                           | 54.0                   | 6.0            |
| Channel 10, Base    |                             |                           |                              |                            |                       |                             |                              |                                |                        |                |
| 1854.0              | 333.0                       | 152.0                     | V                            | 10.0                       | 0.0                   | 27.2                        | 0*                           | 37.2                           | 54.0                   | 16.8           |
| 2711.0              | 3.0                         | 282.0                     | V                            | 18.0                       | 0.0                   | 29.0                        | 0*                           | 47.0                           | 54.0                   | 7.0            |
| 2711.0              | 145.0                       | 100.0                     | H                            | 20.0                       | 0.0                   | 29.0                        | 0*                           | 49.0                           | 54.0                   | 5.0            |
| 3709.0              | 98.0                        | 152.0                     | V                            | 15.0                       | 0.0                   | 31.8                        | 0*                           | 46.8                           | 54.0                   | 7.2            |
| 4631.0              | 26.0                        | 100.0                     | V                            | 15.0                       | 0.0                   | 32.2                        | 0*                           | 47.2                           | 54.0                   | 6.8            |
| Channel 20, Handset |                             |                           |                              |                            |                       |                             |                              |                                |                        |                |
| 1806.0              | 356.0                       | 152.0                     | H                            | 12.0                       | 0.0                   | 27.0                        | 0*                           | 39.0                           | 54.0                   | 15.0           |
| 1806.0              | 108.0                       | 156.0                     | V                            | 22.0                       | 0.0                   | 27.0                        | 0*                           | 49.0                           | 54.0                   | 5.0            |
| 2710.0              | 0.0                         | 202.0                     | V                            | 23.0                       | 0.0                   | 29.0                        | 0*                           | 52.0                           | 54.0                   | 2.0            |
| 2710.0              | 189.0                       | 133.0                     | H                            | 19.0                       | 0.0                   | 29.0                        | 0*                           | 48.0                           | 54.0                   | 6.0            |
| Channel 20, Base    |                             |                           |                              |                            |                       |                             |                              |                                |                        |                |
| 1856.0              | 99.0                        | 227.0                     | H                            | 10.0                       | 0.0                   | 27.2                        | 0*                           | 37.2                           | 54.0                   | 16.8           |
| 1856.0              | 239.0                       | 180.0                     | V                            | 13.0                       | 0.0                   | 27.2                        | 0*                           | 40.2                           | 54.0                   | 13.8           |
| 2716.0              | 323.0                       | 269.0                     | V                            | 13.0                       | 0.0                   | 29.0                        | 0*                           | 42.0                           | 54.0                   | 12.0           |
| 2716.0              | 359.0                       | 268.0                     | H                            | 12.0                       | 0.0                   | 29.0                        | 0*                           | 41.0                           | 54.0                   | 13.0           |
| 3713.0              | 7.0                         | 100.0                     | H                            | 11.0                       | 0.0                   | 31.8                        | 0*                           | 42.8                           | 54.0                   | 11.2           |
| 3713.0              | 92.0                        | 148.0                     | V                            | 16.0                       | 0.0                   | 31.8                        | 0*                           | 47.8                           | 54.0                   | 6.2            |
| 4637.0              | 102.0                       | 137.0                     | V                            | 15.0                       | 0.0                   | 32.2                        | 0*                           | 47.2                           | 54.0                   | 6.8            |

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## 1.4 Equipment Calibration Information

The Following list shows the calibration data of the equipment used for the tests.

| Manufacturer       | Model Number       | Serial Number | Description                    | Last Calibrated<br>mm/dd/yy | Cal Cycle<br>Month |
|--------------------|--------------------|---------------|--------------------------------|-----------------------------|--------------------|
| Eaton              | 96002              | 2436          | Biconical<br>Antenna           | 8/31/98                     | 12                 |
| Electro-Metrics    | EM-<br>2135/EMC-60 | 44174         | Test Receiver                  | 5/13/98                     | 12                 |
| EMCO               | 3146               | 9509-4165     | Log-Periodic<br>Antenna        | 7/16/98                     | 12                 |
| EMCO               | 3115               | 9006-3460     | Double Ridged<br>Horn 1-18 Ghz | 5/27/98                     | 12                 |
| Rohde &<br>Schwarz | EPM                | 883613/014    | Panorama<br>Monitor            | N/A                         | N/A                |
| Rohde &<br>Schwarz | ESVP               | 879529/047    | Test Receiver                  | 9/30/97                     | 12                 |

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