



**MOTOROLA**

**FCC ID: AZ489FT5848**

**DECLARATION OF COMPLIANCE HAC ASSESSMENT - TELECOIL**

**iDEN Mobile Devices**  
**Audio Test Laboratory**  
**8000 West Sunrise Blvd**  
**Fort Lauderdale, FL. 33322**

**Date of Report:** February 24, 2006  
**Report Revision:** Rev. 0  
**Report ID:** FT5848\_FCC\_HAC\_Telecoil\_Rpt\_i580\_Rev\_0

**Responsible Engineer:** Chad Jackman  
**Date/s Tested:** 2/16/2006 to 2/22/2006  
**Manufacturer/Location:** Motorola – Plantation, Florida  
**Sector/Group/Div.:** iDEN Mobile Devices  
**Date submitted for test:** 16 Feb. 2006  
**DUT Description:** Clamshell style with extendable antenna  
**Signaling type:** TDMA: iDEN  
**Test TX mode(s):** 2:6 (a.k.a. 1:3), 1:6  
**Max. Power output:** 0.640W; Pulse Average; Factory tuning  
**Nominal Power:** 0.600W; Pulse Average; Factory tuning  
**TX Frequency Bands:** iDEN - 806-821 MHz, 896-901 MHz (in the U.S.)  
**Model(s) Tested:** i580 (H83XAH6RR4AN)  
**Model(s) Certified:** i580 (H83XAH6RR4AN)  
**Serial Number(s):** 364AFW00HP  
**Rule Part(s):** 20.19(b)(2)



**Approved Applicable Accessories:**

**Antenna(s):**

8575868A01 - 806-928MHz extendable ¼ wave antenna  
 Gain - 806-825MHz extended 2.15dBd, retracted -1.16 dBd; 896-902MHz extended 2.15 dBd, retracted -1.22 dBd

**Battery(ies):**

SNN5765A High Performance Li Ion, Battery Cover NNTN2332A

**Min. Axial field strength:** -3.91 dB A/m  
**Min. Radial field strength:** -11.39 dB A/m  
**Min. ABM Desired-to-Undesired signal ratio:** 28.76 dB  
**HAC Category rating:** M3 T3

Based on the information and the testing results provided herein, the undersigned certifies that when used as stated in the operating instructions supplied, said product complies with the C63.19-2005 reference standard. This report shall not be reproduced without written approval from an officially designated representative of the Motorola EME Laboratory.

The results and statements contained in this report pertain only to the device(s) evaluated.

Alfred Wieczorek, P. E  
 Motorola iDEN Mobile Devices Business

**/S/ Alfred Wieczorek**      **Approval Date:** 24 Feb. 2006

**Certification Date: 24 Feb. 2006**

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### REVISION HISTORY

Date	Revision	Comments
2/24/06	0	Initial release

### 1.0 Introduction and Overview

This report details the utilization, test setup, test equipment, and test results of Hearing Aid Compatibility (HAC) telecoil measurements required per 47 CFR 20.19(b)(2). These measurements were performed during a controlled on-network telephone call, at full rated RF power with the antenna extended, to assess compliance with the PC63.19-2001 rd 3.6 standard. The data in this report is for assessing T-coil compliance only, as a separate report was previously filed with near-field performance data for assessing RF Interference potential, establishing an M3 rating. Some relevant data extracted from that report are included in Appendix A.

Per the Table 7-1 of the standard the iDEN air interface protocol articulation weighting factor (AWF) has been assigned a value of zero.

### 2.0 Telecoil Compliance Criteria (Per PC63.19-2001 rd 3.6 section 7.3)

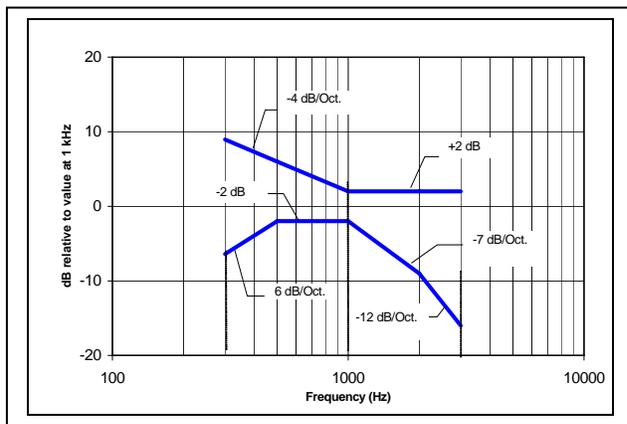
The signal quality rating shall be T3 or better per 47 CFR 20.19. Per C63.19 this rating is dependent upon the articulation weighting factor (AWF) for specific air interface protocols as listed in the following table:

**Table 1 – Signal Quality rating limits**

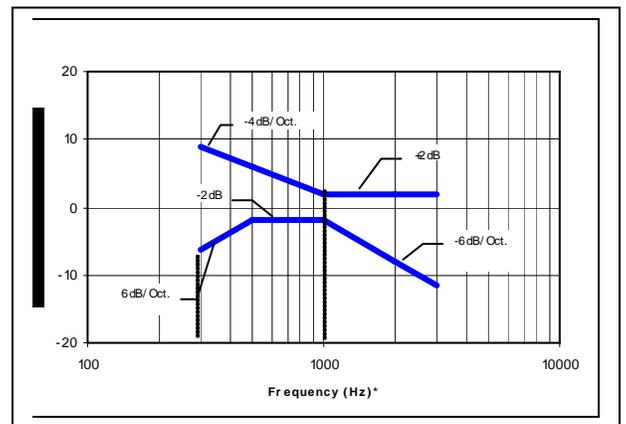
Rating	AWF = 0	AWF = 5
T4	> 10 dB	> 15 dB
T3	0 to 10 dB	5 to 15 dB

To merit this rating the axial component of the audio band magnetic (ABM) field shall be  $\geq -13$  dB A/m at 1 kHz, and the radial components of the audio band magnetic field shall be  $\geq -18$  dB A/m at 1 kHz.

In addition the frequency response shall lie with the limit lines evident in the following graph:



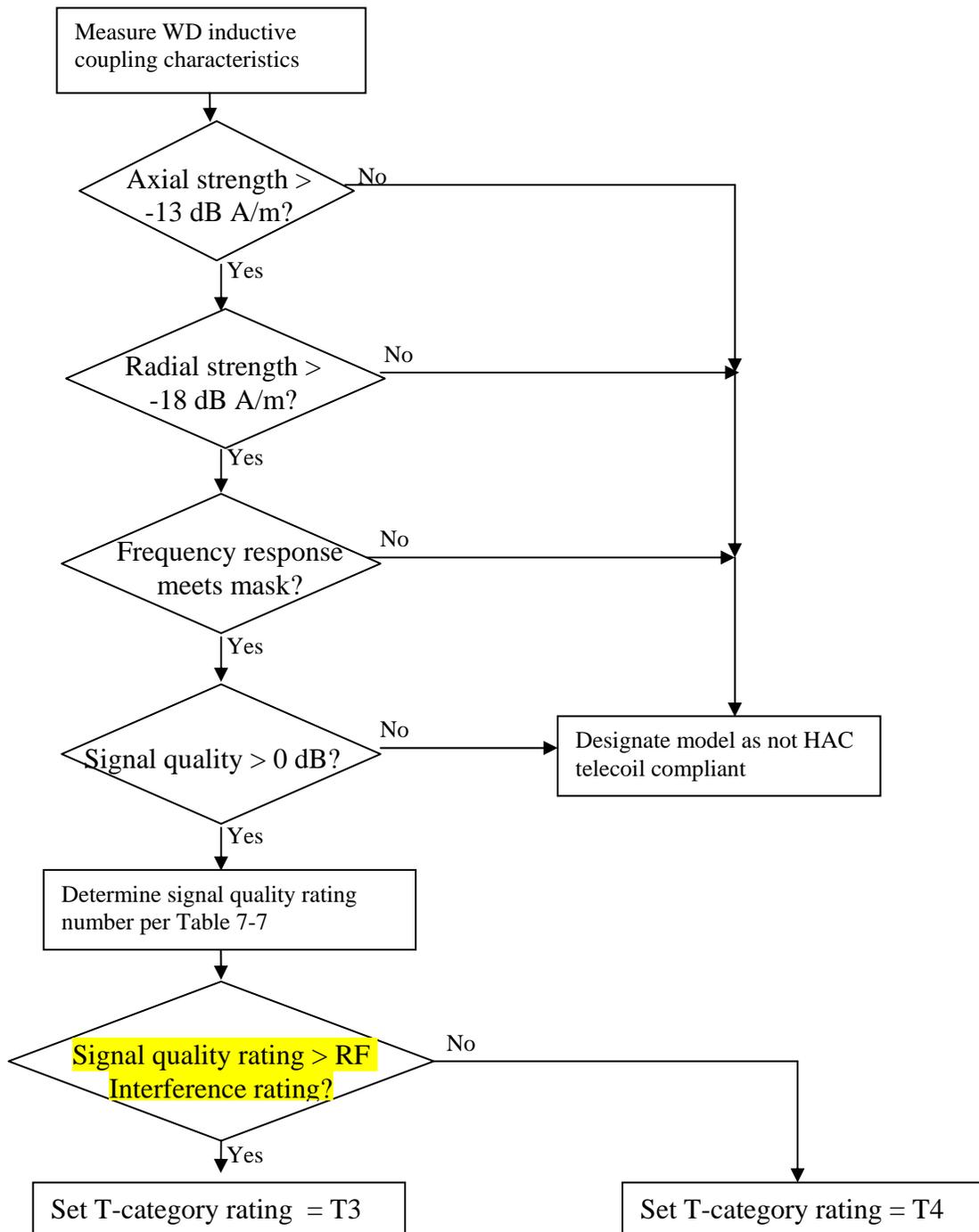
A – Mask for WDs with a field that exceeds -10 dB(A/m) at 1 kHz



B - Mask for WDs with a field t between -10 to -13 dB at 1kHz

**Figure 1 –Frequency Response (Axial only)**

The current C63.19 methodology used to determine a wireless device (WD) T-category rating is illustrated in the attached flow chart in Figure 1. This process presumes that the interference heard by a hearing aid used is dominated by the RF interference component rather than the inductively coupled noise interference component due to pulsing currents flowing in a handset. As a result a WD T-category rating value is precluded from exceeding the RF interference rating by virtue of the highlighted steps within the diagram.



**Figure 2 - WD Telecoil Category Rating Process**

(Note: RFI rating assumed to be M3 or M4 )

### 3.0 Description of Device Under Test (DUT)

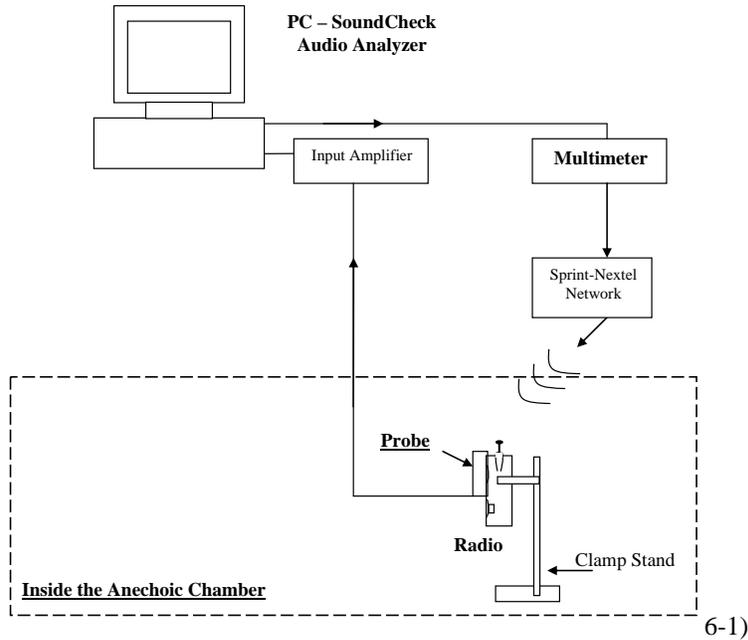
FCC ID: AZ489FT5848 is used for telephone service subject to 47 CFR 20.19 for hearing aid compatibility. The maximum output power is 0.640 watts pulse average as determined by the upper limit of the production line final test station. The DUT was tuned to be within 5% of the maximum rated power. It is capable of transmitting on any network commanded frequency in the bands of 806 to 821 MHz (within the United States) and 896 to 901 MHz. It employs a time division multiplexing (TDM) transmission technology with a duty cycle of 16.67% (1:6 multiplexing) or 33.33% (2:6 multiplexing) using 16-QAM modulation on each of four OFDM-like sub-carriers. A different Vocoder is used for each multiplexing factor as commanded by the cellular network. User controls include selecting the duration of the backlight duration and the audio frequency response characteristic.

### 4.0 Test Equipment List

**Table 2 – List of test equipment used**

Equipment Type	Model Number	Serial Number	Calibration Due
Axial Probe	HAC – A100	0484	6-1-06
Radial Probe	HAC – R100	0484	6-1-06
Audio Analyzer software	SoundCheck 6.1	SC-421	6-1-06
Sound card – 24 bit/96k Hz	Card Deluxe	06416	6-1-06
Input amplifier	SoundConnect	PS-418	6-1-06
Telephone Magnetic Field Simulator	TMFS-1	300-01151	APREL TMFS v.1.6, Release 23 March 2005

**5.0 Descriptions of Measurement System (a variation of PC63.19-2001 rd 3.5 Figure 6-1)**



**Figure 3 – Test setup**

The laboratory utilizes the Listen SoundCheck system, which is a software package that both generates and measures audio signals via a D/A card installed in a personal computer. The P50 male audio signal so generated is applied to the DUT which is engaged in an on-network telephone call as the antenna is not removable and the antenna port connector lies between the battery and the housing. Transmission power was monitored via embedded diagnostic software that displays output power to ensure no power cutback occurred. The measurement system consists of a CCL A-100 Axial telecoil probe and an R-100 Radial telecoil probe. Section 4.0 presents relevant test equipment information. All measurement equipment used to assess Telecoil HAC compliance was calibrated.

**6.0 Measurement System Verification**

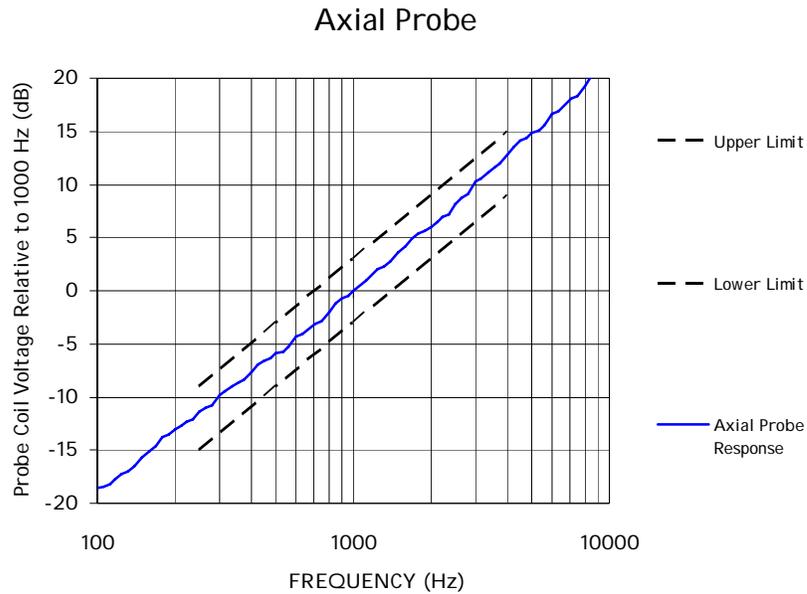
The HAC measurements were conducted with Axial and Radial telecoil probes model/serial numbers A-100/0484 and R-100/0484. A Telephone Magnetic Field Simulator (TMFS) was used for system verification following the guidelines stated in the TMFS procedures document. The photos below depict the validation setup using the TMFS.



**Figure 4 – Probe coil being calibrated with TMFS**

**6.1 System Verification Test Results**

In accordance with C63.19-2005 clause 6.2.4 the probes were calibrated on February 10th, 2006 and sensitivity and response are listed below. System verification measurement results for Axial and Radial probes are listed and compared with expected values from the TMFS in Table 3.



Note: Dashed lines indicate 6 dB / Octave slope

**Figure 5 - Axial Probe sensitivity at 1000 Hz: -58.5 dB V/(A/m)**

Radial Probe Position 1 (0 Degrees)

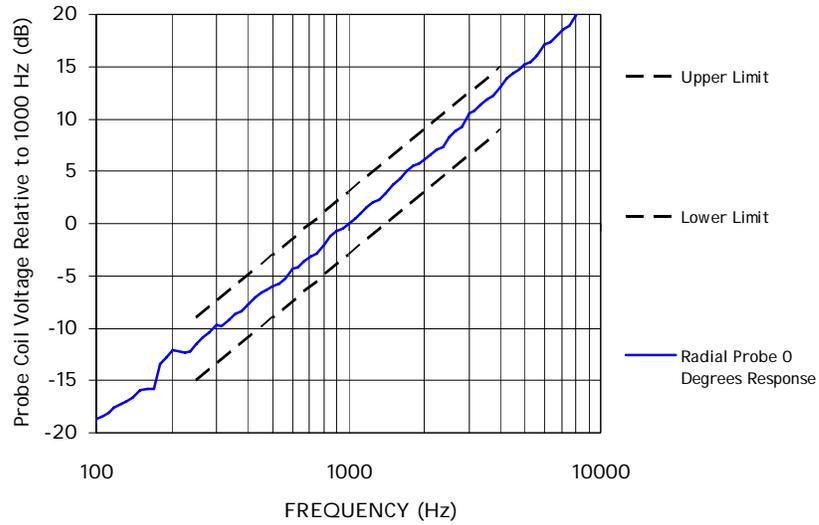


Figure 6 - Radial Probe sensitivity at 1000 Hz: -59.9 dB V/(A/m)

Radial Probe Position 2 (90 Degrees)

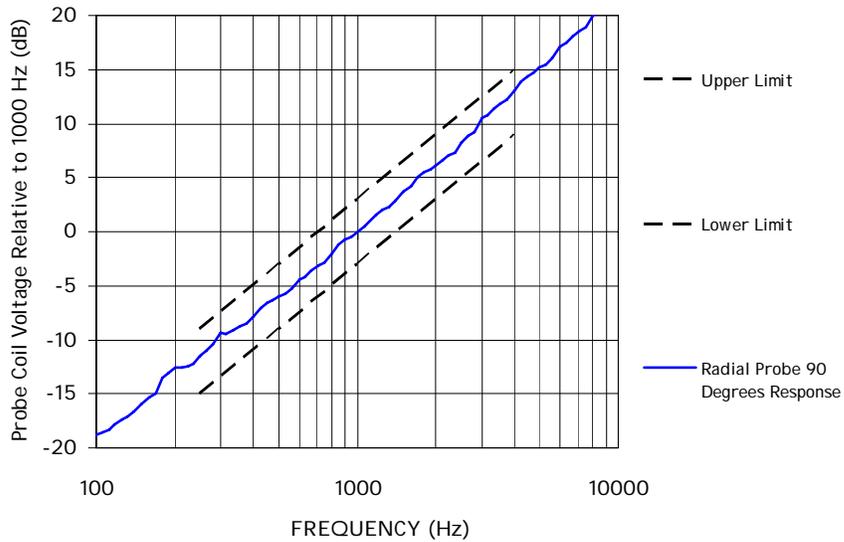


Figure 7 - Radial Probe sensitivity at 1000 Hz: -59.9 dB V/(A/m)

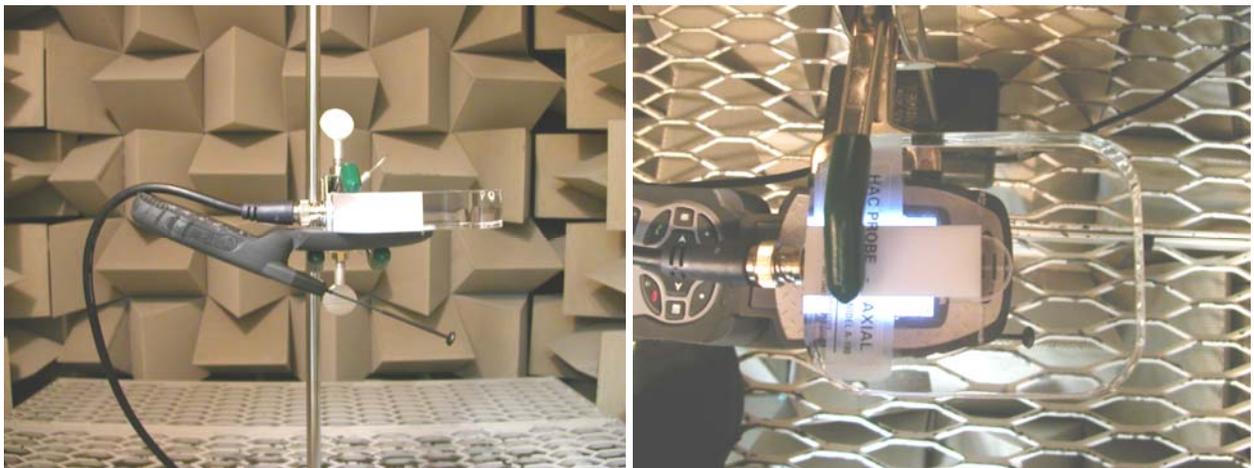
**Table 3 - Probe Sensitivity**

Orientation	Input Signal	Target Magnetic Field	Measured Magnetic field	Deviation
Axial	1kHz, 0.5V	-20.0 dB A/m	-20.66 dB A/m	0.66 dB
Radial 1	1kHz, 0.5V	-27.5 dB A/m	-28.08 dB A/m	0.58 dB
Radial 2	1kHz, 0.5V	-27.5 dB A/m	-27.90 dB A/m	0.40 dB

**7.0 DUT Setup and Test Procedure**

The test setup was like that specified in C63.19-2005 section 6.3.2 and Figure 6-1. Axial and radial measurements were performed at locations in accordance with C63.19 Annex A.3, and are illustrated in the test setup photograph. The coordinates for these locations, relative to the acoustic output center, are given in Table 2. The test flow and procedure was per C63.19 Figure 6-3 and section 6.3.1 was followed in order to demonstrate compliance. The test results were obtained with:

- The antenna extended,
- The DUT user interface configured for telecoil operation,
- The display and keypad lighting off as would normally be the case when used for a call.
- The probe manually positioned for maximum coupling, then secured



**Figure 8 – Test holder**



**Figure 9 – Measurement Locations**

**Table 4 – Measurement location coordinates**

Location	X coordinate (mm)	Y coordinate (mm)	Subgrid Number (See Appendix A)
Axial	0	0	5
Radial 1	-8	0	5
Radial 2	0	6.6	5

Note: X is offset to the right from the center of the acoustic output and Y is the vertical offset (see Figure A-5 in C63.19-2001 rd 3,6).

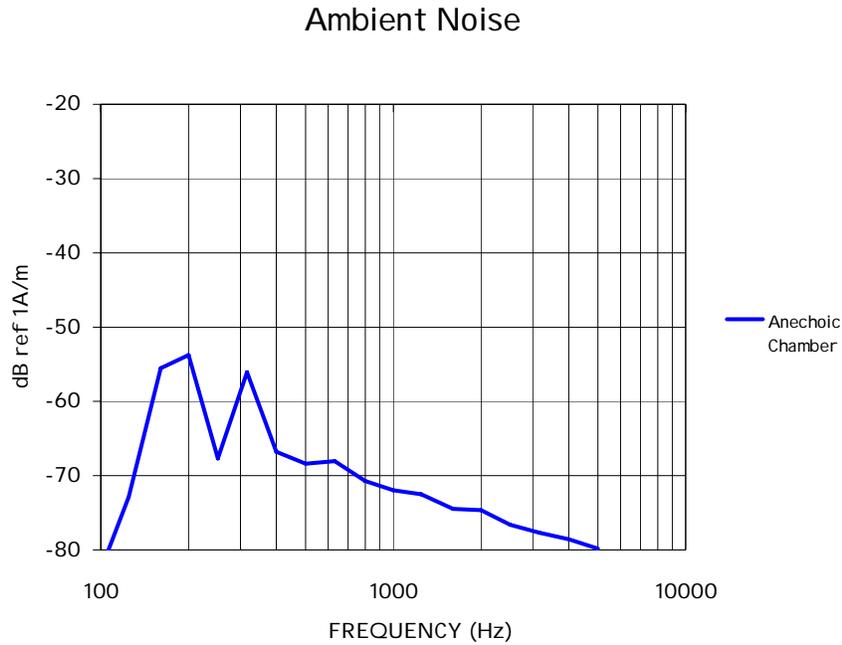
**8.0 Environmental Test Conditions**

The table below presents the range and average environmental conditions during the HAC tests reported herein:

**Table 5 – Environmental Conditions**

	Target	Measured
<b>Ambient Temperature</b>	23 °C +/- 5 °C	Within Guidelines
<b>Relative Humidity</b>	0 - 80 %	Within Guidelines

The Audio Laboratory’s ambient and test system noise levels were determined and found satisfactory as specified in PC63.19-2001-rd3.6 section 6.2.1. The following graph shows the results obtained using a 1/3rd octave resolution bandwidth filter.



**Figure 9 – Ambient Magnetic frequency distribution**

**9.0 Test Results Summary**

The telecoil desired signal strength results per C63.19-2001 rd 3.6 section 6.3.4.2 are independent of the frequency used for transmission. However, the power amplifier current and consequent induced interference noise signals are expected to vary between the frequency bands due to antenna matching and amplifier efficiency variations affecting battery currents. As a result the desired signal results are reported herein at the center of the 800 MHz band only. However, signal quality results depend on the undesired signal strengths measured per C63.19-2001 rd 3.6 Section 6.3.4.3, so undesired signal results follow for both bands. The Desired-to-Undesired ABM signal strength ratio is taken to be the difference between the lowest signal strength measured and the greatest band-dependent interference level measured. All measurements were made with backlighting off.

9.1 Axial frequency response plot data comparison:

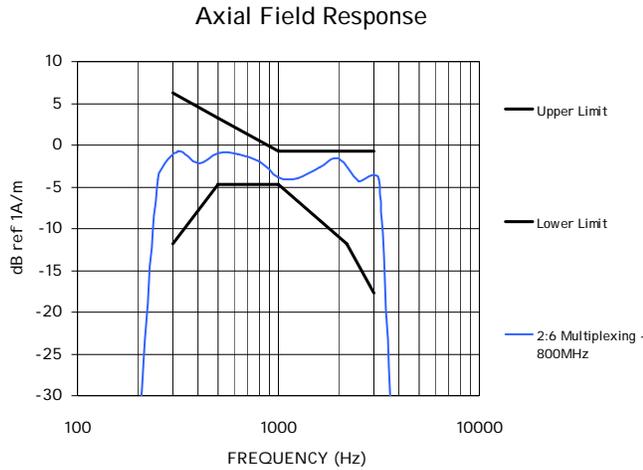


Figure 10A – 800MHz Measured Frequency response

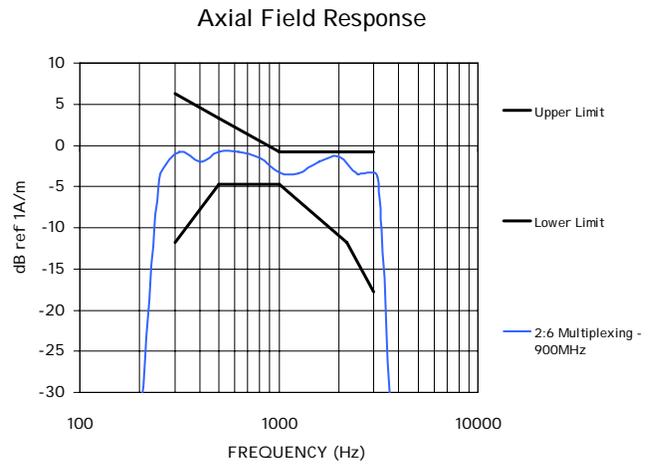


Figure 10B – 900MHz Measured Frequency response

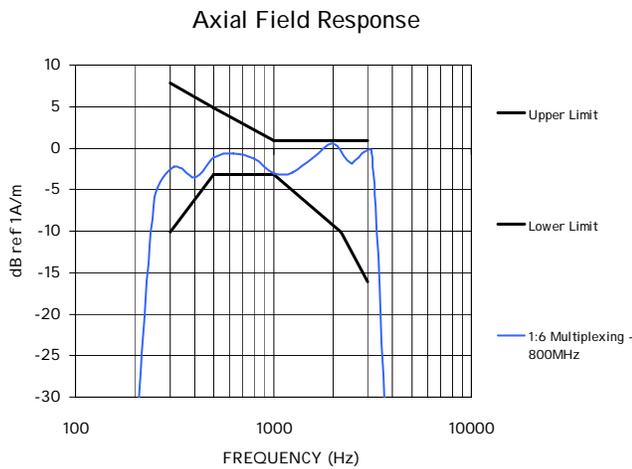


Figure 10C – 800MHz Measured Frequency response

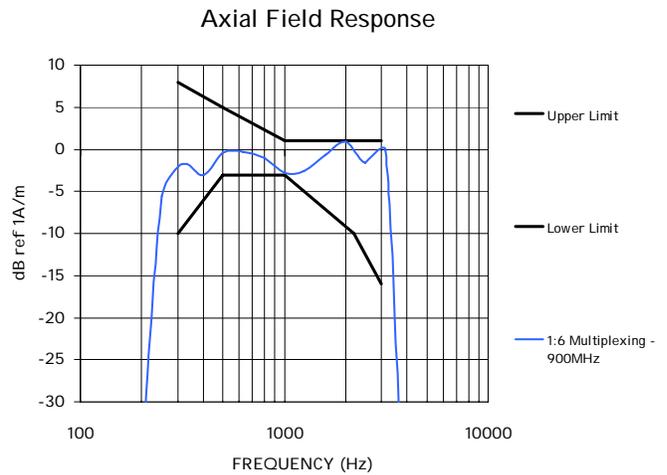


Figure 10D – 900MHz Measured Frequency response

The frequency responses above were measured with the DUT configured to optimize hearing aid inductive coupling frequency response, a setting selected by the user via the keypad.

**These plots demonstrate that this model complies with the C63.19 limits given in Section 2 and thus met the requirements of 47 CFR 20.19.**

9.2 800 MHz Band Audio band magnetic (ABM) signal strength measured at 817.3875 MHz

Measurement Orientation with 2:6 multiplexing	Desired signal ABM1 (dB A/m)	Undesired Signal ABM2 (dB A/m)
Axial	<u>-3.91</u>	-37.73
Radial 1	-10.58	-39.66
Radial 2	-10.90	-58.71

Measurement Orientation with 1:6 multiplexing	Desired signal ABM1 (dB A/m)	Undesired Signal ABM2 (dB A/m)
Axial	-3.04	-40.94
Radial 1	-9.90	-38.66
Radial 2	-10.41	-51.81

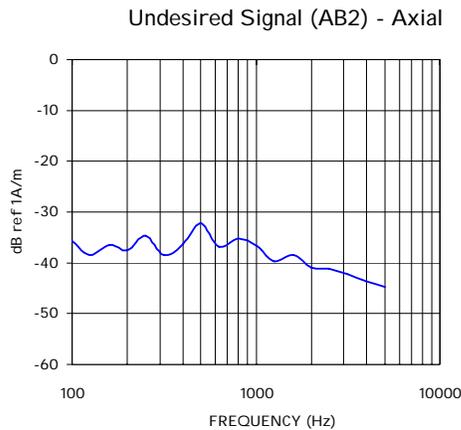


Figure 11A – 800MHz Undesired Signal (2:6)

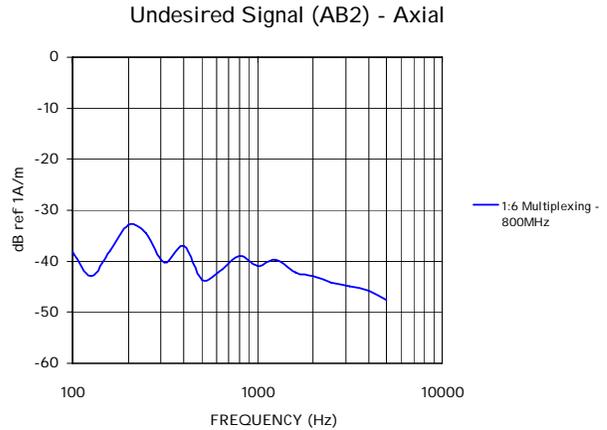


Figure 11B – 800MHz Undesired Signal (1:6)

Considering that the user has no choice of multiplexing ratio (i.e. it is determined by the infrastructure) the highlighted ABM1 axial and radial values are the minimum values that all users might experience. The ABM2 values reported are the greatest values measured for the two battery types listed on page 1 of this report.

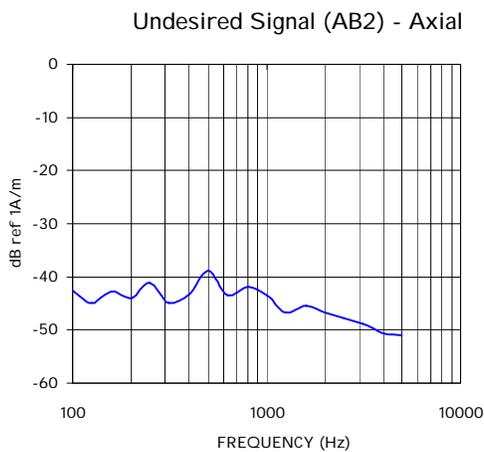
**9.3 800 MHz Band Desired to Undesired ABM Signal Ratio**

Measurement Orientation	ABM Ratio (dB)	ABM Ratio (dB)
	2:6 Multiplexing	1:6 Multiplexing
Axial	33.82	37.90
Radial 1	29.08	<u>28.76</u>
Radial 2	47.81	41.40

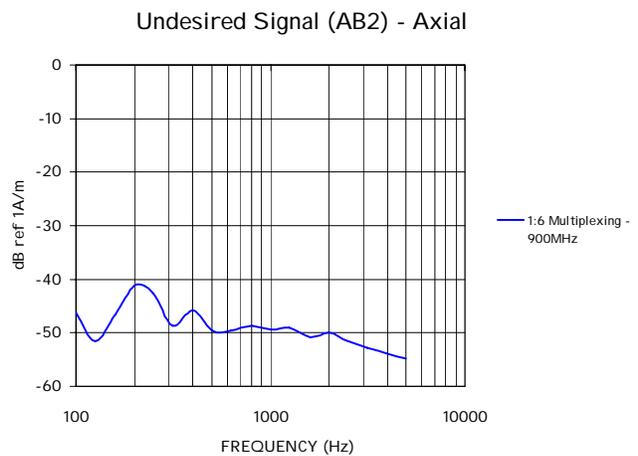
**9.4 900 MHz Band Audio band magnetic (ABM) signal strength measured at 900.0687 MHz**

Measurement Orientation with 2:6 multiplexing	Desired signal ABM1 (dB A/m)	Undesired Signal ABM2 (dB A/m)
Axial	-3.32	-44.38
Radial 1	<u>-11.39</u>	-43.71
Radial 2	-10.92	-60.95

Measurement Orientation with 1:6 multiplexing	Desired signal ABM1 (dB A/m)	Undesired Signal ABM2 (dB A/m)
Axial	-2.85	-49.06
Radial 1	-10.43	-51.85
Radial 2	-10.05	-60.68



**Figure 12A – 900MHz Undesired Signal (2:6)**



**Figure 12B – 900MHz Undesired Signal (1:6)**

The ABM2 value reported was the highest value measured for the two battery types listed.

**9.5 900 MHz Band Desired to Undesired ABM Signal Ratio**

Measurement Orientation	ABM Ratio (dB)	
	2:6 Multiplexing	1:6 Multiplexing
Axial	41.06	46.21
Radial 1	32.32	<u>41.42</u>
Radial 2	50.03	50.63

**9.6 Minimum ABM1 Signal Strength Summary**

Given that users cannot select either the frequency band or the multiplexing ratio then the minimum signal strength all users will experience is evident by comparing the highlighted values in sections 9.2 and 9.4. Those values are:

- Minimum axial: -3.91 dB A/m
- Minimum radial: -11.39 dB A/m (at location radial 1)

**Comparing the summaries in sections 9.6 and 9.7 with the C63.19 limits in Section 2 then per the flow chart in Figure 2 it is evident that this model complies with the signal strength requirements mandated by FCC 47 CFR section 20.19.**

**9.7 Minimum Desired to Undesired Signal Ratio Summary**

Given that users cannot select either the frequency band or the multiplexing ratio then the minimum signal strength all users will experience is evident by comparing the highlighted values in sections 9.3 and 9.5. The result is:

Minimum Desired to Undesired Signal: 28.76 dB (in the 800 MHz band)

Comparing the measured desired to undesired signal ratio values listed in the tables of sections 9.3 and 9.5 with Table 1 in section 2 a rating of M3 T3 may be justified based solely on audio band magnetic (ABM) measurements. Considering the RF interference potential this rating can be justified as long as the RF field strength warrants a rating of M3 at the specific locations where the telecoil measurements were made.

**10.0 Category Rating Determination**

Table 4 in section 7 lists the coordinates of the telecoil measurement locations and the RF interference measurement subgrids where the telecoil measurements were made. For both the axial and the radial desired to undesired signal ratios these lie in sub-grid 5 of the 50-mm grids shown in Annex A which were extracted from Figures 19 and 23 of the report of RF signal strength measurements dated September 21, 2005 previously filed for HAC compliance with an M3 rating. In each of these 16.67-mm square sub-grids a numerical value is listed respectively corresponding to the maximum 800 MHz band RF E-field and H-field strength values measured in those subgrids, not all of which were included in determining the M-category rating.

The maximum values from the six included subgrids were then listed in Table 3, which was extracted from that report, and placed into Annex A.1 of this report. Specifically the values listed in that table were those associated with subgrids 5. These were then compared with the criteria in section 2 therein to determine the M4 rating for this wireless device when measured with the grid centered at the center of the acoustic output (which is coincident with the axial location). The RF signal strengths at the telecoil measurement locations did not exceed those in the grids used to determine the M-category rating.

Since per Figure 2 the numerical value of the M rating is less than the numerical value of the M3 rating then the T3 value is determined solely by the RF signal strength measurements, and M3 T3 becomes the correct HAC rating for this model.

### 11.0 Uncertainty budget

**Table 7 - List of Uncertainties**

<b><u>Contributor</u></b>	<b>Data (dB)</b>	<b>Data type</b>	<b>Probability distribution</b>	<b>Divisor</b>	<b>Std. uncertainty (dB)</b>
RF reflections	+/- 0.8	Specification	rectangular	1.73	+/- 1.39
Acoustic noise	+/- 0.8	Specification	rectangular	1.73	+/- 1.39
Probe coil sensitivity	+/- 0.5	Specification	rectangular	1.73	+/- 0.87
Reference signal level	+/- 0.25	Specification	rectangular	1.73	+/- 0.43
Positioning accuracy	+/- 0.5	Standard deviation	Normal	1.00	+/- 0.50
Cable loss	+/- 1	Uncertainty	Normal	2.00	+/- 2.00
Frequency analyzer	+/- 0.3	Specification	rectangular	1.73	+/- 0.52
System repeatability	+/- 0.4	Standard deviation	Normal	1.00	+/- 0.40
Repeatability of the WD	+/- 0.3	Standard deviation	Normal	1.00	+/- 0.30
Combined standard uncertainty			Normal	1	0.83
Expanded uncertainty (coverage factor = 2) U			Normal (K=2)	2	1.65



## 12.0 Declaration of Compliance

Motorola, Inc. hereby declares that based on the data herein this model complies with the requirements of 47 CFR 20.19(b)(2) with a rating of M3 T3 based on PC63.19-2001 rd 3.6

**ANNEX A (Previously Filed RF Data)**

RF Signal Strength Data were previously submitted to the FCC for this model (Report *FCC\_HAC\_rpt\_i580\_Rev O\_060215\_SR3014*, dated 2/15/2006), which resulted in an updated grant with an M4 rating, per 47 CFR 20.19(b)(1). The summary data and scans are excerpted here from Section 9 of that report.

**A.1 RF Test Results Summary (from Section 9).**

**iDEN 800MHz Band**

Freq. (MHz)	Battery	Conducted Po (W)	E/H Field	Measured Field (V/m or A/m)	Appendix B Data (pg)	Excluded Cells	M-Rating
813.5125	SNN5744A	0.638	E	69.9	23	2, 3, 6	M-3
813.5125	SNN5765A	0.640	E	67.0	25	2, 3, 6	M-3
806.0125	SNN5744A	0.630	E	65.3	26	2, 3, 6	M-3
824.9875	SNN5744A	0.643	E	67.7	27	2, 3, 6	M-3
813.5125	SNN5744A	0.646	H	0.139	28	1, 2, 3	M-4
813.5125	SNN5765A	0.641	H	0.135	29	1, 2, 3	M-4
806.0125	SNN5744A	0.633	H	0.146	30	1, 2, 3	M-4
824.9875	SNN5744A	0.635	H	0.136	32	1, 2, 3	M-4

**iDEN 900MHz Band**

Freq. (MHz)	Battery	Conducted Po (W)	E/H Field	Measured Field (V/m or A/m)	Appendix B Data (pg)	Excluded Cells	M-Rating
898.5187	SNN5744A	0.627	E	46.8	33	1, 2, 3	M-4
898.5187	SNN5765A	0.628	E	47.6	34	1, 2, 3	M-4
896.0187	SNN5765A	0.636	E	46.6	35	1, 2, 3	M-4
900.9812	SNN5765A	0.621	E	47.3	36	1, 2, 3	M-4
898.5187	SNN5744A	0.631	H	0.105	37	1, 2, 3	M-4
898.5187	SNN5765A	0.623	H	0.107	38	1, 2, 3	M-4
896.0187	SNN5765A	0.632	H	0.110	39	1, 2, 3	M-4
900.9812	SNN5765A	0.630	H	0.105	40	1, 2, 3	M-4

## A.2 RF Test Probe E-Field Scan Data (from Appendix A).

**Motorola GEMS EME Laboratory**  
 GEMS-3; DUT: i580 H83XAH6RR4AN-Date/Time: 2/7/2006 9:28:18 PM

Run#: MeC-i580 Radio 813 E-field 060207-05  
 Model# / Serial#: H83XAH6RR4AN / 364AGA0361  
 TX Freq. / Start Power: 813.5125 (MHz) / 0.710 Watts  
 Antenna: 8575868A01  
 Battery# / Battery Cover#: SNN5744A / NTN2344NEXA

Comments:

Probe: ER3DV6 - SN2350, Calibrated: 7/7/2005, ConvF(1, 1, 1)  
 Duty Cycle: 1:3, Medium: Air, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>  
 Electronics: DAE3 Sn363, Calibrated: 5/24/2005

**813.5125 w/SNN5744A Battery/Hearing Aid Compatibility Test (101x101x1): Measurement**

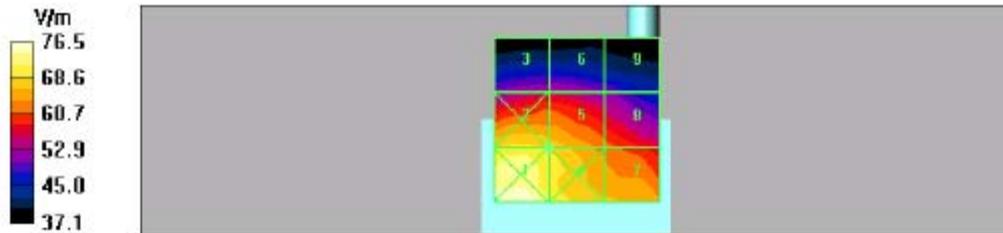
grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 68.1 V/m  
 Probe Modulation Factor = 1.75  
 Reference Value = 35.85 V/m; Power Drift = 0.0704 dB

Hearing Aid Near-Field Category: **M3 (AWF 0 dB)**

**E-Field V/m**  
(Time averaged)

Grid 3 <b>76.5</b>	Grid 6 <b>69.8</b>	Grid 9 <b>53.8</b>
Grid 2 <b>72.6</b>	Grid 5 <b>68.1</b>	Grid 8 <b>53.9</b>
Grid 1 <b>67.1</b>	Grid 4 <b>69.9</b>	Grid 7 <b>50.7</b>

Excluded sub grids  
 Max remaining grid



### A.3 RF Test Probe H-Field Scan Data (from Appendix A).

**Motorola GEMS EME Laboratory**  
 GEMS-3; DUT: i580 H83XAH6RR4AN-Date/Time: 2/9/2006 4:34:30 PM

Run#: MeC-i580 Radio 806 H-field 060209-03  
 Model# / Serial#: H83XAH6RR4AN / 364AGA0361  
 TX Freq. / Start Power: 806.0125 (MHz) / 0.724 Watts  
 Antenna: 8575868A01  
 Battery# / Battery Cover#: SNN5744A / NTN2344NEXA

Comments:

Probe: H3DV6 - SN6166, Calibrated: 7/7/2005,  
 Duty Cycle: 1:3, Medium: Air, Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
 Electronics: DAE3 Sn363, Calibrated: 5/24/2005

**806.0125 w/SNN5744A Battery/Hearing Aid Compatibility Test (101x101x1): Measurement**  
 grid: dx=5mm, dy=5mm  
 Maximum value of peak Total field = 0.146 A/m  
 Probe Modulation Factor = 1.75  
 Reference Value = 0.073 A/m; Power Drift = -0.039 dB  
 Hearing Aid Near-Field Category: M4 (AWF 0 dB)

**H-Field A/m**  
**(Time averaged)**

Grid 3 <b>0.172</b>	Grid 6 <b>0.145</b>	Grid 9 <b>0.119</b>
Grid 2 <b>0.166</b>	Grid 5 <b>0.142</b>	Grid 8 <b>0.120</b>
Grid 1 <b>0.182</b>	Grid 4 <b>0.146</b>	Grid 7 <b>0.118</b>

Excluded sub grids  
 Max remaining grid

