



FCC HAC (T-Coil) Compliance Test Report

Product Name: cdma2000 Mobile Phone

Model: H110C

Report No.: SYBH(Z-SAR)020062013-H2

FCC ID: QISH110C

| | APPROVED (Lab Manager) | CHECKED | PREPARED |
|------|---------------------------|------------------|--------------------|
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| DATE | 2013-07-02 | 2013-07-02 | 2013-07-02 |

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※ ※ Modified History ※ ※

| REV. | DESCRIPTION | ISSUED DATE | REMARK |
|-------------|-----------------------------|--------------------|---------------|
| Rev. 1.0 | Initial Test Report Release | 2013-07-02 | Sun Shaobin |
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1 General Information

1.1 Statement of Compliance

The T-rating of Hear-Aid Compatibility (HAC) found during testing for H110C are as below Table 1. So the T-rating of H110C is T3.

| Band | T-rating |
|----------|----------|
| CDMA BC0 | T3 |
| CDMA BC1 | T3 |

Table 1: Summary of test result

Note: This portable wireless equipment has been shown to be hearing-aid compatible under the above rated category, specified in ANSI/IEEE Std.C63.19-2007 and had been tested in accordance with the specified measurement procedures, Hear-Aid Compatibility is based on the assumption that all production units will be designed electrically identical to the device tested in this report. Test results reported herein relate only to the item(s) tested and are for North American Bands only.

1.2 EUT Description

| Device Information: | | | |
|----------------------------------|---|-----------|-----------|
| DUT Name: | cdma2000 Mobile Phone | | |
| Type Identification: | H110C | | |
| MEID: | 268435462612114109 | | |
| Device Type : | portable device | | |
| Exposure Category: | uncontrolled environment / general population | | |
| Hardware Version : | HC1H110CM | | |
| Software Version : | H110CCDRB103 | | |
| Antenna Type : | Internal | | |
| Others Accessories: | Headset | | |
| Device Operating Configurations: | | | |
| Supporting Mode(s) | CDMA BC0/BC1 (Tested); | | |
| Test Modulation | QPSK | | |
| Operating Frequency Range(s) | Band | Tx (MHz) | Rx (MHz) |
| | CDMA BC0 | 824-849 | 869-894 |
| | CDMA BC1 | 1850-1910 | 1930-1990 |
| Power Class : | Tested with power control "All up" (CDMA BC0) | | |
| | Tested with power control "All up" (CDMA BC1) | | |
| Test Channels (low-mid-high) : | 1013-384-777(CDMA BC0) | | |
| | 25-600-1175(CDMA BC1) | | |

Table 2: Device information and operating configuration

1.2.1 General Description

H110C is a stylish bar-type mobile phone with a 2.4-inch QVGA TFT display. Based on Qualcomm's QSC6055 platform, the H110C provides an extra-long standby time and supports CDMA2000 800/1900 MHz band. Besides the basic voice and SMS functions, the H110C also supports applications such as alarm clock, calculator, and stopwatch.

Battery Information

| | |
|--------------------------|--|
| Battery Model: | HB4A1H(24021064) |
| Rated capacity: | 900 mAh |
| Nominal Voltage: | ≡ 3.7 V |
| Charging Voltage: | ≡ 4.2 V |
| Serials number: | 1#: UBDD417X06430580 2#: YACD522197125849 |

1.2.2 List of air interfaces/frequency bands

| Air Interface | Band(MHz) | Voice/Data | HAC tested | Concurrent HAC Tested | Reduced Power 20.19(c)(1) |
|---------------|-----------|------------|------------|-----------------------|---------------------------|
| CDMA | BC0 | Voice | Yes | Not tested* | N/A |
| CDMA | BC1 | Voice | Yes | Not tested* | N/A |

Note: *- Non concurrent mode was found to be the Worst Case mode.

1.3 Test specification(s)

| | |
|------------------|---|
| ANSI C63.19-2007 | American National Standard for Methods of Measurement of Compatibility between Wireless Communication Devices |
| KDB 285076 D01 | HAC Guidance v03r02 |

1.4 Testing laboratory

| | |
|------------------------|--|
| Test Site | Reliability Laboratory of Huawei Technologies Co., Ltd. |
| Test Location | Zone K3, Huawei Industrial Base, Bantian Industry Area, Longgang District, Shenzhen, Guangdong, China |
| Telephone | +86 755 28780808 |
| Fax | +86 755 89652518 |
| State of accreditation | The Test laboratory (area of testing) is accredited according to ISO/IEC 17025. CNAS Registration number: L0310 A2LA TESTING CERT #2174.01 |

1.5 Applicant and Manufacturer

| | |
|--------------|---|
| Company Name | HUAWEI TECHNOLOGIES CO., LTD |
| Address | Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C |

1.6 Application details

| | |
|--------------------|------------|
| Start Date of test | 2013-06-27 |
| End Date of test | 2013-06-27 |

1.7 Ambient Condition

| | |
|---------------------|-------------|
| Ambient temperature | 20°C – 24°C |
| Relative Humidity | 30% – 70% |

2 HAC(T-Coil) Measurement System

2.1 T-Coil Measurement Set-up

These measurements are performed using the DASY5 NEO automated dosimetric assessment system. It is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland. It consists of high precision robotics system (Stäubli), robot controller, Intel Core2 computer, near-field probe, probe alignment sensor. The robot is a six-axis industrial robot performing precise movements. A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The PC consists of the HP Intel Core2 1.86 GHz computer with Windows XP system and HAC Measurement Software DASY5 NEO, A/D interface card, monitor, mouse, and keyboard. The Stäubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

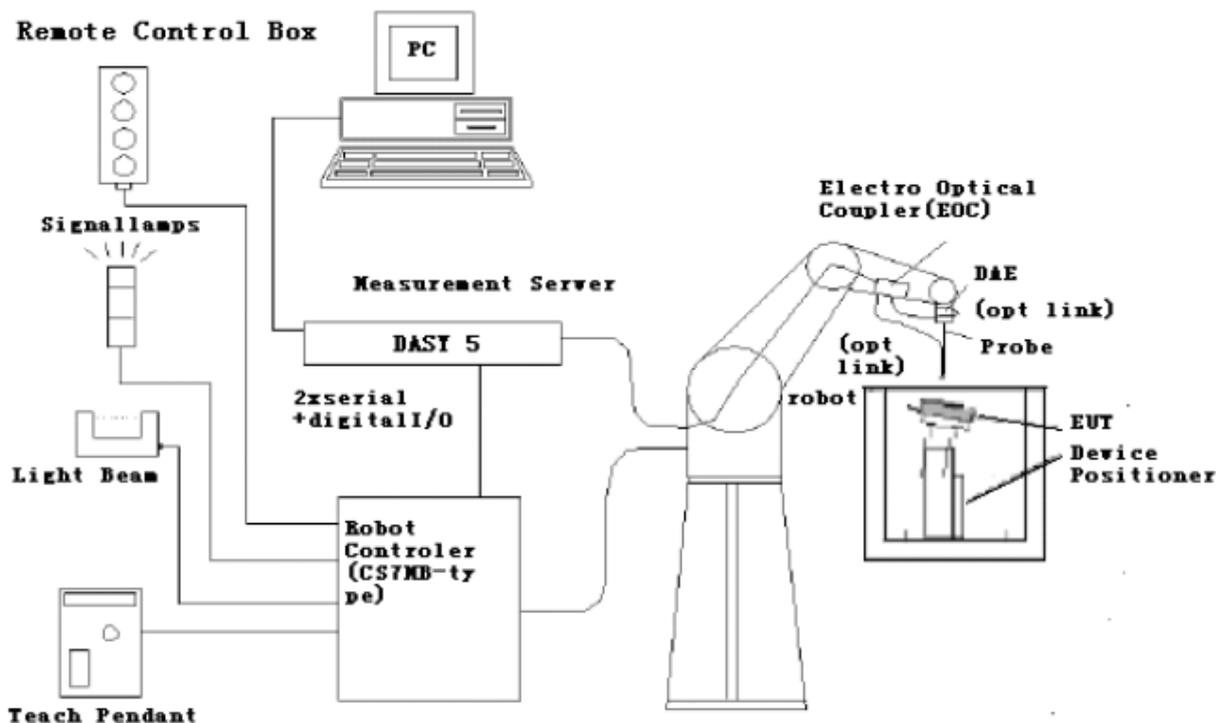


Fig. 1 HAC Test Measurement Set-up

The DAE4 consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer.

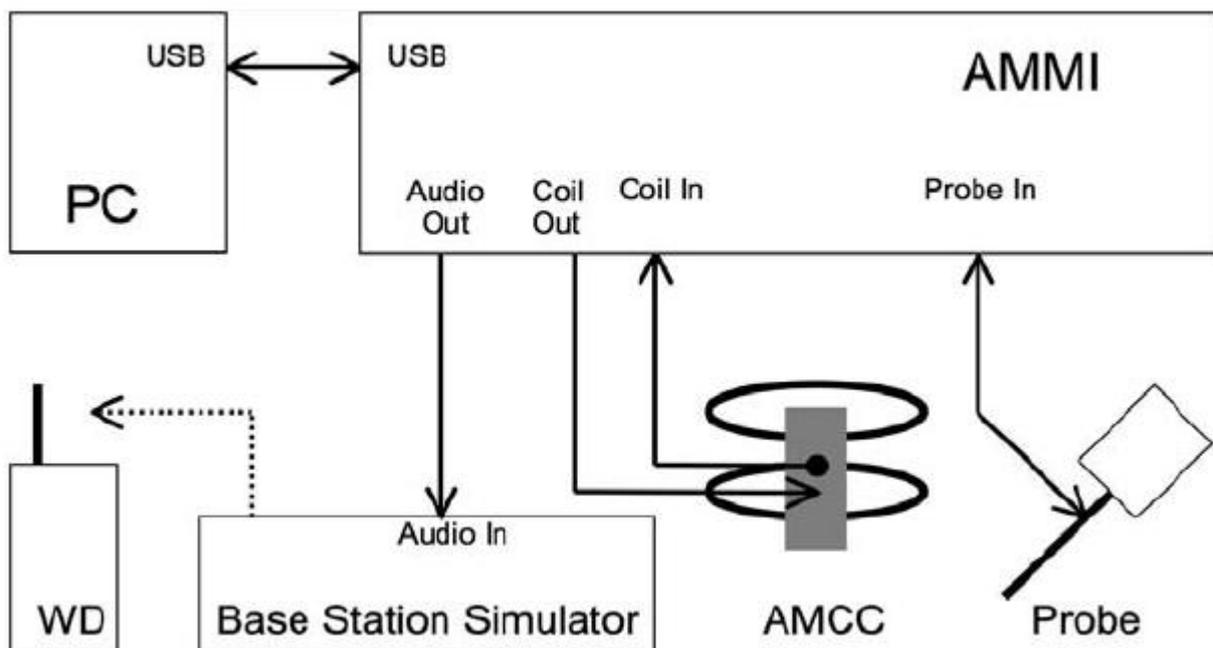
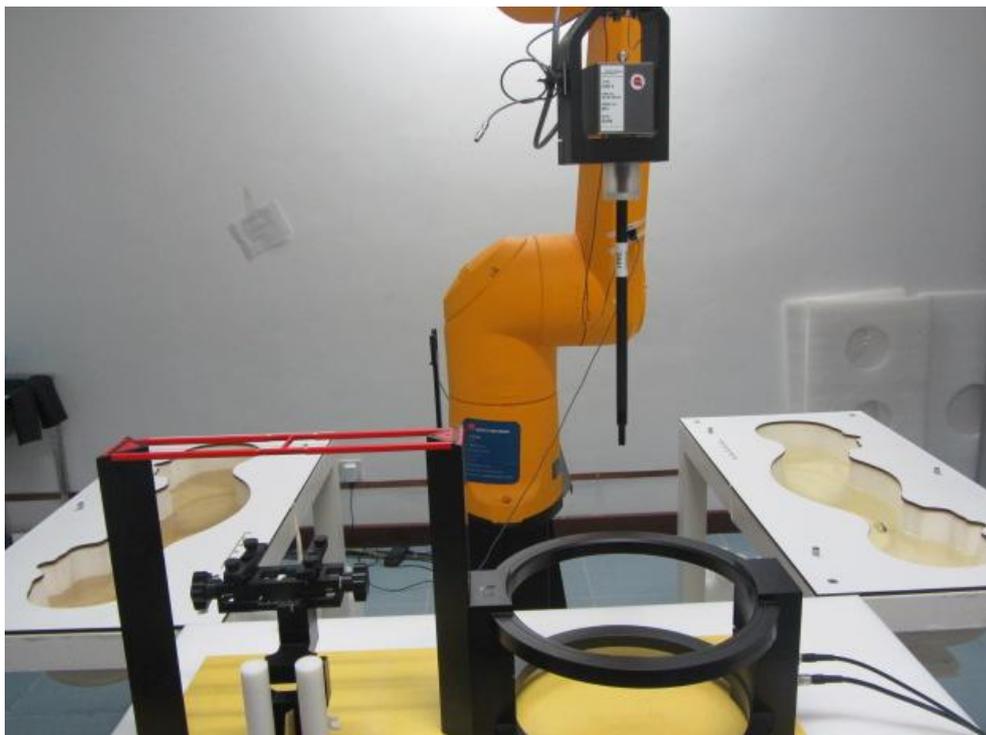


Fig. 2 T-Coil setup with HAC Test Arch and AMCC

2.2 Probe description

AM1D probe Description

The AM1D probe is an active probe with a single sensor. It is fully RF-shielded and has a rounded tip 6mm in diameter incorporating a pickup coil with its center offset 3mm from the tip and the sides. The symmetric signal preamplifier in the probe is fed via the shielded symmetric output cable from the AMMI with a 48V "phantom" voltage supply. The 7-pin connector on the back in the axis of the probe does not carry any signals. It is mounted to the DAE for the correct orientation of the sensor. If the probe axis is tilted 54.7 degree from the vertical, the sensor is approximately vertical when the signal connector is at the underside of the probe (cable hanging downwards).

| | | |
|----------------------|---|---|
| Frequency | 0.1~20kHz (RF sensitivity < -100dB, fully RF shielded) |  |
| Sensitivity | < -50dB A/m @ 1kHz | |
| Dynamic range | 2 V/m to > 1000 V/m; Linearity: ± 0.2 dB | |
| Pre-amplifier | 40dB, symmetric | |
| Dimensions | Tip diameter/length: 6/290mm, sensor according to ANSI-C63.19 | |

2.3 AMCC

The Audio Magnetic Calibration coil is a Helmholtz Coil designed for calibration of the AM1D probe. The two horizontal coils generate a homogeneous magnetic field in the z direction. The DC input resistance is adjusted by a series resistor to approximately 50Ohm, and a shunt resistor of 10Ohm permits monitoring the current with a scale of 1:10.

Port description:

| Signal | Connector | Resistance |
|--------------|-----------|---|
| Coil In | BNC | Typically 50Ohm |
| Coil Monitor | BNO | 100Ohm $\pm 1\%$ (100mV corresponding to 1 A/m) |

Specification:

| | |
|-------------------|--|
| Dimensions | 370 x 370 x 196 mm, according to ANSI-C63.19 |
|-------------------|--|

2.4 AMMI



Figure 3 AMMI front panel

The Audio Magnetic Measuring Instrument (AMMI) is a desktop 19-inch unit containing a sampling unit, a waveform generator for test and calibration signals, and a USB interface.

| | |
|-------------------------------|---|
| Sampling rate | 48 kHz / 24 bit |
| Dynamic range | 85 dB |
| Test signal generation | User selectable and predefined (vis PC) |
| Calibration | Auto-calibration / full system calibration using AMCC with monitor output |
| Dimensions | 482 x 65 x 270 mm |

2.5 Test Arch Phantom & Phone Positioner

The Test Arch phantom should be positioned horizontally on a stable surface. Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot. It enables easy and well defined positioning of the phone and validation dipoles as well as simple teaching of the robot (Dimensions: 370 x 370 x 370 mm).

The Phone Positioner supports accurate and reliable positioning of any phone with effect on near field $< \pm 0.5$ dB.

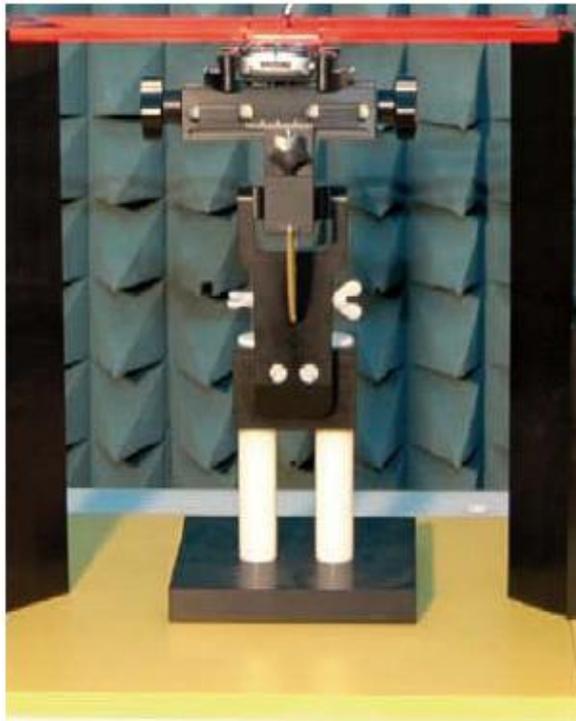


Fig. 4 HAC Phantom & Device Holder

2.6 Test Equipment List

This table gives a complete overview of the HAC measurement equipment
Devices used during the test described are marked

| No. | Manufacturer | Device | Type | Serial number | Date of last calibration | Valid period |
|-------------------------------------|--------------|--------------------------------------|--------|---------------|--------------------------|--------------|
| <input checked="" type="checkbox"/> | SPEAG | Audio Magnetic Field Probe | AM1DV2 | 3067 | 2013-01-10 | Three years |
| <input checked="" type="checkbox"/> | SPEAG | Audio Magnetic Calibration Coil | AMCC | 1053 | NCR | NCR |
| <input checked="" type="checkbox"/> | SPEAG | Audio Magnetic Measuring Instrument | AMMI | 1065 | NCR | NCR |
| <input checked="" type="checkbox"/> | SPEAG | HAC Test Arch | N/A | 1102 | NCR | NCR |
| <input checked="" type="checkbox"/> | SPEAG | Data acquisition electronics | DAE4 | 1305 | 2013-01-08 | One year |
| <input checked="" type="checkbox"/> | SPEAG | Telephone Magnetic Field Simulator | TMFS | 1030 | 2012-11-21 | Two years |
| <input checked="" type="checkbox"/> | SPEAG | Software | DASY5 | N/A | N/A | N/A |
| <input checked="" type="checkbox"/> | R & S | Universal Radio Communication Tester | CMU200 | 111379 | 2012-08-13 | One year |

2.7 Measurement Uncertainty Evaluation

| Error Description | Uncertainty Value | Probability Distribution | Divisor | ci ABM1 | ci ABM2 | Standard Uncertainty ABM1 | Standard Uncertainty ABM2 |
|---------------------------------------|-------------------|--------------------------|---------|---------|---------|---------------------------|---------------------------|
| Probe Sensitivity | | | | | | | |
| Reference Level | ±3.0% | N | 1 | 1 | 1 | ±3.0% | ±3.0% |
| AMCC Geometry | ±0.4% | R | √3 | 1 | 1 | ± 0.2% | ± 0.2% |
| AMCC Current | ±1.0% | R | √3 | 1 | 1 | ± 0.6% | ± 0.6% |
| Probe Positioning during Calibr. | ± 0.1% | R | √3 | 1 | 1 | ± 0.1% | ± 0.1% |
| Noise Contribution | ± 0.7% | R | √3 | 0.0143 | 1 | ± 0.0% | ± 0.4% |
| Frequency Slope | ± 5.9% | R | √3 | 0.1 | 1 | ± 0.3% | ± 3.5% |
| Probe System | | | | | | | |
| Repeatability / Drift | ± 1.0% | R | √3 | 1 | 1 | ± 0.6% | ± 0.6% |
| Linearity / Dynamic Range | ± 0.6% | R | √3 | 1 | 1 | ± 0.4% | ± 0.4% |
| Acoustic Noise | ± 1.0% | R | √3 | 0.1 | 1 | ± 0.1% | ± 0.6% |
| Probe Angle | ± 2.3% | R | √3 | 1 | 1 | ±1.4% | ± 1.4% |
| Spectral Processing | ± 0.9% | R | √3 | 1 | 1 | ±0.5% | ± 0.5% |
| Integration Time | ± 0.6% | N | 1 | 1 | 5 | ±0.6% | ± 3.0% |
| Field Disturbation | ± 0.2% | R | √3 | 0 | 1 | ±0.1% | ± 0.1% |
| Test Signal | | | | | | | |
| Ref. Signal Spectral Response | ± 0.6% | R | √3 | 1 | 1 | ±0.1% | ± 0.4% |
| Positioning | | | | | | | |
| Probe Positioning | ± 1.9% | R | √3 | 1 | 1 | ±1.1% | ± 1.1% |
| Phantom Thickness | ± 0.9% | R | √3 | 1 | 1 | ±0.5% | ± 0.5% |
| DUT Positioning | ± 1.9% | R | √3 | 1 | 1 | ±1.1% | ± 1.1% |
| External Contributions | | | | | | | |
| RF Interference | ± 0.0% | R | √3 | 1 | 0.3 | ±0.0% | ± 0.0% |
| Test Signal Variation | ± 2.0% | R | √3 | 1 | 1 | ±1.2% | ± 1.2% |
| Combined Uncertainty | | | | | | | |
| Combined Std. Uncertainty (ABM Field) | | | | | | ±4.1% | ±6.1% |
| Expanded Std. Uncertainty | | | | | | ±8.1% | ±12.3% |

Table 3: Measurement uncertainties for T-Coil

3 HAC(T-Coil) Measurement

3.1 T-Coil measurement points and reference plane

Figure 5 illustrates the three standard probe orientations. Position 1 is the axial orientation of the probe coil; orientation 2 and orientation 3 are radial orientations. The space between the measurement positions is not fixed. It is recommended that a scan of the WD be done for each probe coil orientation and that the maximum level recorded be used as the reading for that orientation of the probe coil.

- 1) The reference plane is the planar area that contains the highest point in the area of the phone that normally rests against the user's ear. It is parallel to the centerline of the receiver area of the phone and is defined by the points of the receiver-end of the WD handset, which, in normal handset use, rest against the ear.
- 2) The measurement plane is parallel to, and 10 mm in front of, the reference plane.
- 3) The reference axis is normal to the reference plane and passes through the center of the receiver speaker section (or the center of the hole array); or may be centered on a secondary inductive source. The actual location of the measurement point shall be noted in the test report as the measurement reference point.
- 4) The measurement points may be located where the axial and radial field intensity measurements are optimum with regard to the requirements. However, the measurement points should be near the acoustic output of the WD and shall be located in the same half of the phone as the WD receiver. In a WD handset with a centered receiver and a circularly symmetrical magnetic field, the measurement axis and the reference axis would coincide.
- 5) The relative spacing of each measurement orientation is not fixed. The axial and two radial orientations should be chosen to select the optimal position.
- 6) The measurement point for the axial position is located 10 mm from the reference plane on the measurement axis. The actual location of the measurement point shall be noted in test reports and designated as the measurement reference point.

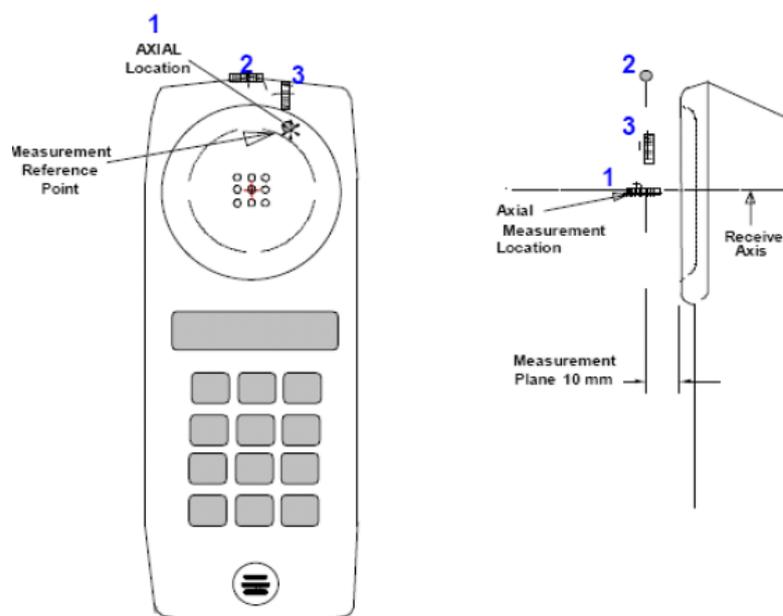


Figure 5 Axis and planes for WD audio frequency magnetic field measurements

3.2 T-Coil Measurement Procedure

The following illustrate a typical test scan over a wireless communications device:

- 1) Geometry and signal check: system probe alignment, proper operation of the field probe, probe measurement system, other instrumentation, and the positioning system was confirmed. A surface calibration was performed before each setup change to ensure repeatable spacing and proper maintenance of the measurement plane using the test Arch.
- 2) Set the reference drive level of signal voice defined in C63.19 per 6.3.2.1.
- 3) The ambient and test system background noise (dB A/m) was measured as well as ABM2 over the full measurement. The maximum noise level must be at least 10dB below the limit of C63.19 per 7.3.2.
- 4) The DUT was positioned in its intended test position, acoustic output point of the device perpendicular to the field probe.
- 5) The DUT operation for maximum rated RF output power was configured and connected by using of coaxial cable connection to the base station simulator at the test channel and other normal operating parameters as intended for the test. The battery was ensured to be fully charged before each test. The center sub-grid was centered over the center of the acoustic output (also audio band magnetic output, if applicable). The DUT audio output was positioned tangent (as physically possible) to the measurement plane.
- 6) The DUT's RF emission field was eliminated from T-coil results by using a well RF-shielding of the probe, AM1D, and by using of coaxial cable connection to a Base Station Simulator. One test channel was pre-measurement to avoid this possibility.
- 7) Determined the optimal measurement locations for the DUT by following the three steps, coarse resolution scan, fine resolution scans, and point measurement, as described in C63.19 per 6.3.4.4. At each measurement locations, samples in the measurement window duration were evaluated to get ABM1 and the signal spectrum. The noise measurement was performed after the scan with the signal, the same happened, just with the voice signal switched off. The ABM2 was calculated from this second scan.
- 8) All results resulting from a measurement point in a T-Coil job were calculated from the signal samples during this window interval. ABM values were averaged over the sequence of there samples.
- 9) At an optimal point measurement, the SNR (ABM1/ABM2) was calculated for axial,radial transverse and radial longitudinal orientation, and the frequency response was measured in axial axis.
- 10) Corrected for the frequency response after the DUT measurement since the DASY5 system had known the spectrum of the input signal by using a reference job.
- 11) In SEMCAD postprocessing, the spectral points are in addition scaled with the high-pass (half-band) and the A-weighting, bandwidth compensated factor (BWC) and those results are final as shown in this report.

3.3 T-Coil Performance Requirements

In order to be rated for T-Coil use, a WD shall meet the requirements for signal level and signal quality contained in this part.

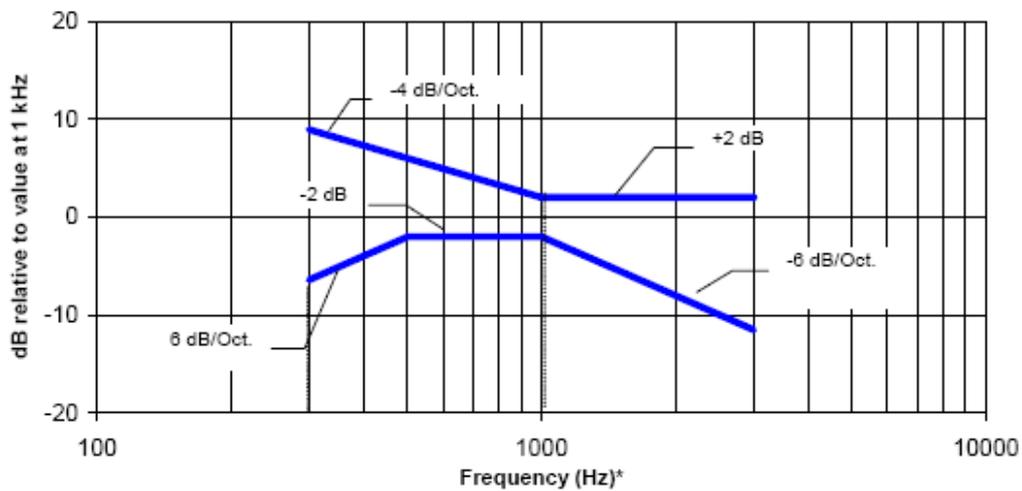
1) T-Coil coupling field intensity

When measured as specified in ANSI C63.19, the T-Coil signal shall be ≥ -18 dB (A/m) at 1 kHz, in a 1/3 octave band filter for all orientations.

2) Frequency response

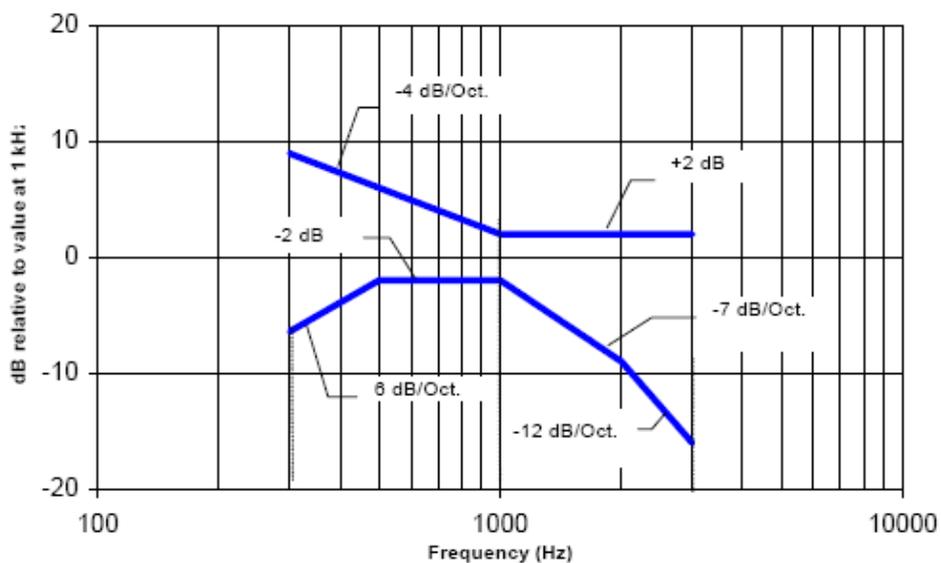
The frequency response of the axial component of the magnetic field, measured in 1/3 octave bands, shall follow the response curve specified in this sub-clause, over the frequency range 300 Hz to 3000 Hz. Figure 6 and Figure 7 provide the boundaries for the specified frequency.

These response curves are for true field strength measurements of the T-Coil signal. Thus the 6 dB/octave probe response has been corrected from the raw readings.



NOTE—Frequency response is between 300 Hz and 3000 Hz.

Figure 6—Magnetic field frequency response for WDs with a field ≤ -15 dB (A/m) at 1 kHz



NOTE—Frequency response is between 300 Hz and 3000 Hz.

Figure 7 —Magnetic field frequency response for WDs with a field that exceeds -15 dB(A/m) at 1 kHz

3) Signal quality

This part provides the signal quality requirement for the intended T-Coil signal from a WD. Only the RF immunity of the hearing aid is measured in T-Coil mode. It is assumed that a hearing aid can have no immunity to an interference signal in the audio band, which is the intended reception band for this mode. So, the only criteria that can be measured is the RF immunity in T-Coil mode. This is measured using the same procedure as for the audio coupling mode and at the same levels.

The worst signal quality of the three T-Coil signal measurements shall be used to determine the T-Coil mode category per Table 4

| Category | Telephone parameters WD signal quality [(signal + noise) – to – noise ratio in decibels] |
|-----------------|---|
| Category T1 | 0 dB to 10 dB |
| Category T2 | 10 dB to 20 dB |
| Category T3 | 20 dB to 30 dB |
| Category T4 | > 30 dB |

Table 4: **T-Coil signal quality categories**

4 HAC(T-Coil) Test Configuration

4.1 General Description

The phone was tested in all normal configurations for the ear use. The EUT is mounted in the device holder equivalent as for classic dosimeter measurements. The acoustic output of the EUT shall coincide with the center point of the area formed by the dielectric wire and the middle bar of the arch's top frame. The EUT shall be moved vertically upwards until it touches the frame. The fine adjustment is possible by sliding the complete. The EUT holder is on the yellow base plate of the Test Arch phantom. These test configurations are tested at the middle frequency channels of each applicable operating mode; for example, GSM, WCDMA(UMTS),CDMA and TDMA.

4.2 CDMA Test Configuration

HAC tests for CDMA BC0 and BC1, a communication link is set up with a base station by air link. We established the radio link through call processing. The Absolute Radio Frequency Channel Number(ARFCN) are allocated to 384 respectively in the case of CDMA BC0,allocated to 600 respectively in the case of CDMA BC1. T-Coil configurations is measured in RC1 with the EUT configured to transmit using Speech Service Option SO3, at the same time the EUT shall be operated at its maximum RF output power setting.

5 HAC(T-Coil) Measurement Results

| Band | Test channel /Frequency | Test Result | | | | T-Rating | Frequency Response |
|---------------------------------------|-------------------------|-------------------|-----------------------------------|-------------------------------|----------|----------|--------------------|
| | | Probe Orientation | Measurement Position (x mm, y mm) | ABM1 _{≥-18} (dB A/m) | SNR (dB) | | |
| Test Result of T-Coil with Battery 1# | | | | | | | |
| CDMA BC0 | 384/836.52 | Radial1(x) | (-8.3,0) | 7.03 | 30.71 | T4 | / |
| | | Radial2(y) | (-4.2,-4.2) | 3.07 | 34.11 | T4 | / |
| | | Z(Axial) | (4.2,0) | 5.20 | 27.47 | T3 | PASS |
| CDMA BC1 | 600/1880 | Radial1(x) | (-12.5,4.2) | 2.79 | 28.69 | T3 | / |
| | | Radial2(y) | (0, -8.3) | 6.51 | 30.36 | T4 | / |
| | | Z(Axial) | (0,0) | 9.44 | 29.82 | T3 | PASS |
| Test Result of T-Coil with Battery 2# | | | | | | | |
| CDMA BC0 | 384/836.52 | Radial1(x) | (-12.5, 8.3) | -1.16 | 32.82 | T4 | / |
| | | Radial2(y) | (0, -8.3) | 5.45 | 34.32 | T4 | / |
| | | Z(Axial) | (0, -4.2) | 7.28 | 29.11 | T3 | PASS |
| CDMA BC1 | 600/1880 | Radial1(x) | (-8.3, 0) | 5.54 | 27.69 | T3 | / |
| | | Radial2(y) | (8.3, -4.2) | -3.10 | 33.68 | T4 | / |
| | | Z(Axial) | (0, 0) | 9.30 | 28.75 | T3 | PASS |

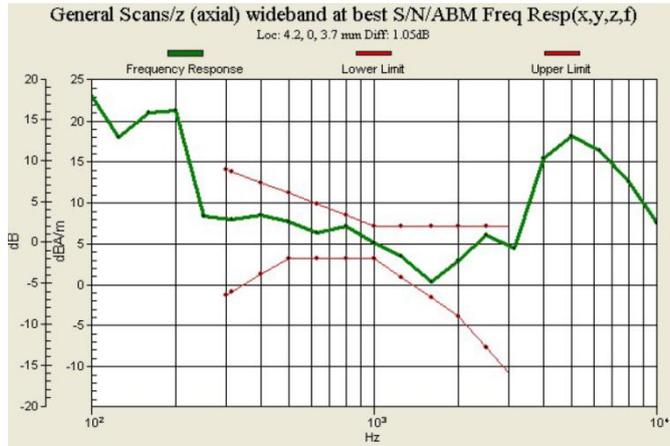
Table 5: Test Result of T-Coil

Note:

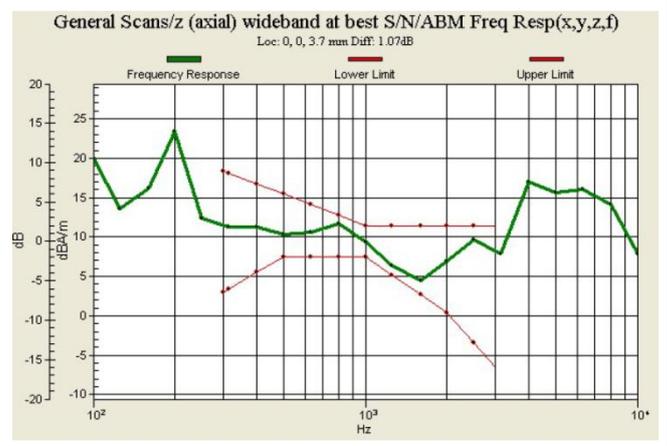
- 1) There is no special HAC mode software on this DUT.
- 2) The volume is adjusted to the maximum level and the backlight turned off during the test.

Frequency response plots with battery 1#

CDMA BC0/384CH

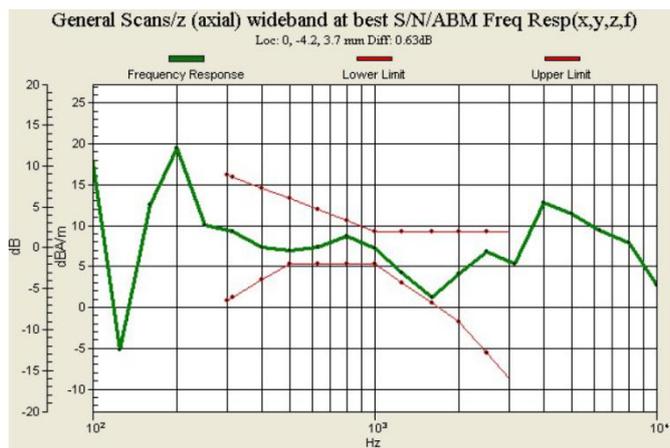


CDMA BC1/600CH



Frequency response plots with battery 2#

CDMA BC0/384CH



CDMA BC1/600CH

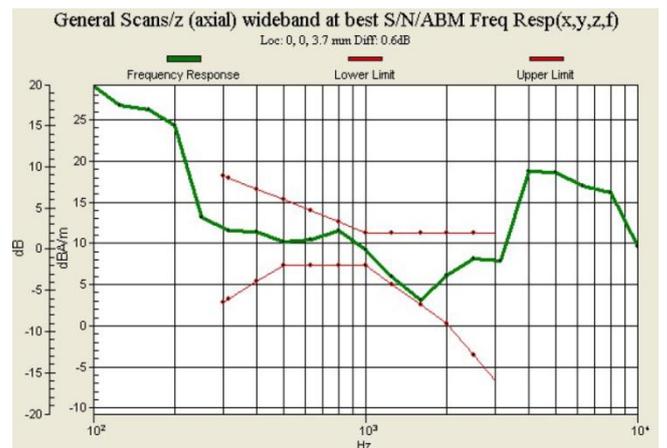


Table 6: Frequency response plots of T-Coil

Appendix A. T-Coil Measurement Plots

(Please See Appendix A.)

Appendix B. Calibration Certificate

(Please See Appendix B.)

Appendix C. Photo documentation

(Please See Appendix C.)

*****End Of Report Body*****