

Report No.: SEWM2302000025RG03

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HAC (T-Coil) Test Report

Application No.: SEWM2302000025RG

Applicant: SKY PHONE LLC

Manufacturer: SKY PHONE LLC

Product Name: SMART PHONE

Model No.(EUT): Elite P55Max

Trade Mark: SKY DEVICES

FCC ID: 2ABOSSKYELITEP55MX

Standards: ANSI C63.19-2011 CFR 47 FCC Part 20

Date of Receipt: 2023-02-09

Date of Test: 2023-02-16 to 2023-02-23

Date of Issue: 2023-02-28

Test conclusion: PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Panta Sun

Wireless Laboratory Manager

Panta Sun



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REVISION HISTORY

Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2023-02-28		Original		



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TEST SUMMARY

Frequency Band	T-rating			
GSM 850	T3			
PCS 1900	T3			
WCDMA Band II	Т3			
WCDMA Band IV	T3			
WCDMA Band V	T3			
LTE Band 2	ТЗ			
LTE Band 4	T3			
LTE Band 5	T3			
LTE Band 12	ТЗ			
LTE Band 17	T3			
LTE Band 66	T3			
WLAN2.4GHz	NA			
HAC Rate Category: T3				

Reviewed by

Well Wei

Prepared by

Nick VIII

Nick Hu



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1 General Information

1.1 Introduction

The purpose of this standard is to establish categories for hearing aids and for WD (wireless communications devices) that can indicate to health care practitioners and hearing aid users which hearing aids are compatible with which WD, and to provide tests that can be used to assess the electromagnetic characteristics of hearing aids and WD and assign them to these categories. The various parameters required, in order to demonstrate compatibility and accessibility are measured. The design of the standard is such that when a hearing aid and WD achieve one of the categories specified, as measured by the methodology of this standard, the indicated performance is realized.

In order to provide for the usability of a hearing aid with a WD, several factors must be coordinated:

- a) Radio frequency (RF) measurements of the near-field electric and magnetic fields emitted by a WD to categorize these emissions for correlation with the RF immunity of a hearing aid.
- b) Magnetic field measurements of a WD emitted via the audio transducer associated with the T-coil mode of the hearing aid, for assessment of hearing aid performance.
- c) Measurements with the hearing aid and a simulation of the categorized WD T-coil emissions to assess the hearing aid RF immunity in the T-coil mode.

The WD radio frequency (RF) and audio band emissions are measured.

Hence, the following are measurements made for the WD:

- a) RF E-Field emissions
- b) T-coil mode, magnetic signal strength in the audio band
- c) T-coil mode, magnetic signal and noise articulation index
- d) T-coil mode, magnetic signal frequency response through the audio band

Corresponding to the WD measurements, the hearing aid is measured for:

- a) RF immunity in microphone mode
- b) RF immunity in T-coil mode

1.2 Details of Client

Applicant:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL33139
Manufacturer:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL33139

1.3 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test Engineer:	Leon Liu



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1.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

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1.5 General Description of EUT

Device Type:	portable device						
Exposure Category:	uncontrolled environment / general population						
Product Name:	SMART PHONE						
Model No.(EUT):	Elite P55Max						
Trade Mark:	SKY DEVICES						
FCC ID:	2ABOSSKYELITEP55MX						
Product Phase:	Identical Prototype						
SN:	XMOX552211011030						
Hardware Version:	9186TO MMI V01						
Software Version:	Elite P55Max SkyDevice	s V04 20211225 user					
Antenna Type:	Integrated						
Device Operating Configuration							
Modulation Mode:	GSM: GMSK, 8PSK; WCI LTE: QPSK,16QAM,64QA	DMA: QPSK, HSPA+(16QAM); M GFSK, π/4DQPSK,8DPSK					
Device Class:	В						
GPRS Multi-slots Class:	12	EGPRS Multi-slots Class:	12				
HSDPA UE Category:	24	HSUPA UE Category	7				
DC-HSDPA UE Category:	24						
	4,tested with power level 5						
Power Class:	1,tested with power level (
Power Class.		3, tested with power control "all up" (WCDMA Bands)					
3, tested with power control Max Power(LTE Band)							
	Band	Tx (MHz)	Rx (MHz)				
	GSM 850	824 - 849	869 - 894				
	PCS 1900	1850 - 1910	1930 - 1990				
	WCDMA Band II	1850 -1910	1930 - 1990				
	WCDMA Band IV	1710 -1755	2110 - 2155				
	WCDMA Band V	824 - 849	869 - 894				
Frequency Bands:	LTE Band 2	1850 - 1910	1930 - 1990				
requeriey Barias.	LTE Band 4	1710 - 1755	2110 - 2155				
	LTE Band 5	824 - 849	869 - 894				
	LTE Band 12	699 - 716	729 - 746				
	LTE band 17	704 - 716	734 - 746				
	LTE band 66	1710 - 1780	2110 - 2180				
	Bluetooth	2402~2480	2402~2480				
	Wi-Fi 2.4G	2412~2462	2412~2462				
RF Cable:	⊠ Provide	ed by the aplicant 🔲 Provided by the	e laboratory				
Battery Information:	Rechargeable Li-ion Batte 3.8V/2000mAh	Rechargeable Li-ion Battery					
Remark:	This test report (Report No.: ZEWM2302000025RG03 issued on 2023-02-28) is based on the original test report (Report No.: ZEWM230200025RG01 issued on 2023-02-23). Review this report and the original report. This report only uses software to shield LTE Band 41/Band 71 according to the customer's difference statement. There for in this report all items do not need to retest and all test data in this report are based on the previous report with report number ZEWM230200025RG01 issued on 2023-02-23.						



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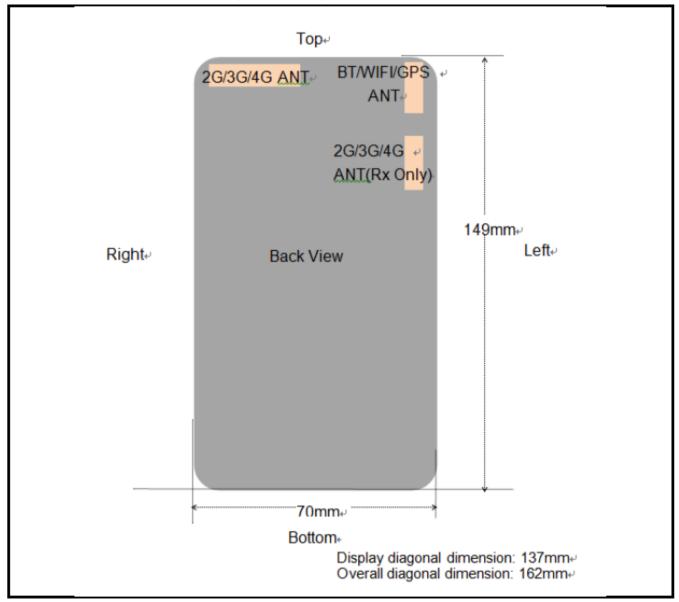
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1.5.1 DUT Antenna Locations(Front view)





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1.5.2 List of air interfaces/frequency bands

Air Interface	Band (MHz)	Туре	ANSI C63.19 Tested	Simultaneous Transmitter	Name of Voice Service	Power Reduction
	850	VO	Yes		NA	NA
GSM	1900	VO	168	BT, Wi-Fi	INA	NA
GSIVI	850 EDGE	VD	Yes		NIA	NA
	1900 EDGE	VD	Yes		NA	NA
	Band II					NA
MCDMA	Band IV	VO	Yes	BT, Wi-Fi	NA	NA
WCDMA	Band V					NA
	HSPA	DT	No	BT, Wi-Fi	NA	NA
	Band 2				NA	NA
	Band 4			BT, Wi-Fi		NA
	Band 5					NA
LTE (FDD)	Band 12	VD	Yes			NA
(1 00)	Band 25					NA
	Band 26					NA
	Band 66					NA
Wi-Fi	2450	DT	No	WWAN	NA	NA
BT	2450	DT	No	WWAN	NA	NA

VO: Legacy Cellular Voice Service from Table 7.1 in 7.4.2.1 of ANSI C63.19-2011

DT: Digital Transport (no voice)

VD: IP Voice Service over Digital Transport

For protocols not listed in Table 7.1 of ANSI C63.19-2011 or the ANSI C63.19-2011 VoLTE interpretation,

the average speech level of -20 dBm0 should be used.



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1.6 Test Specification

Identity	Document Title
CFR 47 FCC Part 20	§20.19 Hearing aid-compatible mobile handsets.
	American National Standard for Methods of Measurement of Compatibility between Wireless Communication Devices
KDB 285076 D01	HAC Guidance v05r01
KDB 285076 D02	T-Coil testing v03

2 Calibration certificate

Temperature	Min. = 18°C, Max. = 25 °C
Relative humidity	Min. = 30%, Max. = 70%

Table 1: The Ambient Conditions





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3 HAC (T-Coil) Measurement System

3.1 Measurement System Diagram for SPEAG Robotic

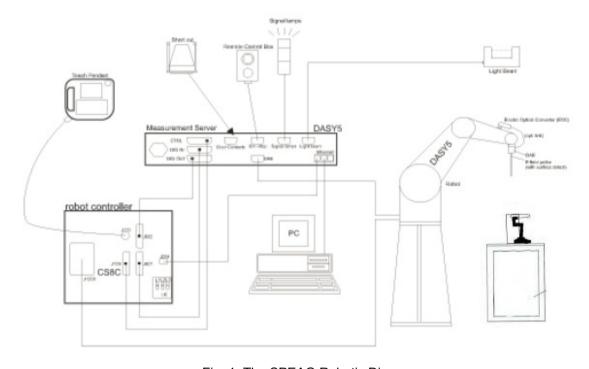


Fig. 1. The SPEAG Robotic Diagram

The DASY5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- An Audio Magnetic probe.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- · DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The Test Arch SAM phantom
- The device holder for handheld SMART PHONEs.
- Validation dipole kits allowing to validate the proper functioning of the system.



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3.2 T-Coil Measurement Set-up for GSM/UMTS/LTE

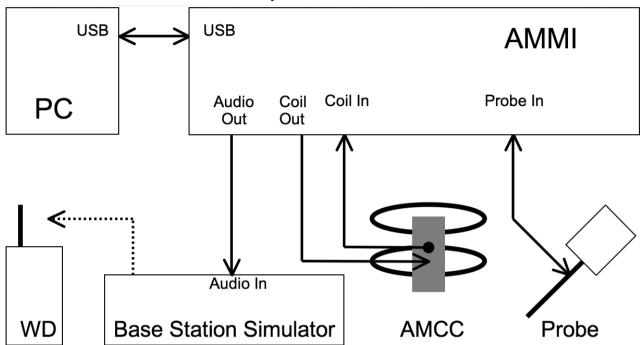


Fig. 2. T-coil signal measurement test setup

The sequence of the measurement is T-Coil testing procedure over a wireless communication device:

- 1. Confirm Geometry & signal check. Probe phantom alignment and check of accuracy.
- 2. Background noise measurement in the area of the WD.
- 3. Perform 50x50mm area scan with narrow band signal to determine ABM1, ABM2 and SNR for axial and radial orientation positions.
- 4. For Axial position, perform optimal SNR point measurement with a broadband signal determine Frequency Response
- 5. Define the all applicable input audio level according to ANSI C63.19-2011 and KDB 285076 D02v03.

Note.

- #. The EUT do not use the special HAC SW.
- #. Setting the maximum volume for EUT during the measurement.
- #. For the measurement, it don't use the "post-test measurement processing of results".
- #. Per KDB 285076 D01v05, handsets that that have the ability to support concurrent connections using simultaneous transmissions shall be independently tested for each air interface/band given in ANSI C63.19-2011. At the present time ANSI C63.19 does not provide simultaneous transmission test procedures.
- # Define the all applicable inpot audio level as below according to c63 and KDB 285076 D02v03:

GSM input Level: -16dB UMTS input Level: -16dB VoLTE input Level: -16dB

For GSM/UMTS test setup and input level, the correct input level definition is via a communication tester CMW500 "Decoder Cal" and "Codec Cal" with audio option B52 and B85 to set the correct audiao input levels.

CMW500 is able to output 1 kHz audio signal equivalent to 3.14dBm0 at "Decoder Cal". configuration, the signal reference is used to adjust the AMMI gain setting to reach-16Bm0 for GSM/UMTS/VoLTE. CMW500 input is calibrated and the relation between the analog input voltage and the internal level in dBm0 can be determined



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Voice over Long-Term Evolution (VoLTE) is a standard for high-speed wireless communication for SMART PHONEs and data terminals-including IoT devices and wearables. It is based on the IP Multimedia Subsystem (IMS)network, with specific profiles for control and media planes of voice service on LTE defined by GSMA in PRD IR.92This approach results in the voice service (control and media planes) being delivered as data flows within the LTE data bearer. This means that there is no dependency on the legacy circuit-switched voice network to be maintained

The test setup used for VoLTE over IMS is via the callbox of CMW500 for T-coil measurement, the data application unit of the CMW500 was used to simulate the IP multimedia subsystem server. The CMW500 can be manually configured to ensure and control the speech input level result is -16dBm0 for VoLTE when the device during the IMS connection.

#An investigation was perfromed to determine worst case codec, bit rate and air interface configuration refer to section 7.2



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3.2.1 Define the input level for GSM/UMTS/LTE

1. The Required gain factor for the specific signal shall typically be multiplied by this factor to achieve approx.the same level as for the 1kHz sine signal

2. The below calculation formula is an example and showing how to determine the input level for the device

The predefined signal types have the following differences / factors compared to the 1kHz sine signal:

Signal [file name]	Duration [s]	Peak-to- RMS [dB]	RMS [dB]	Required gain factor *)	Gain setting
1kHz sine		3.0	0.0	1.00	
48k_1.025kHz_10s.wav	10	3.0	0.0	1.00	
48k_1kHz_3.15kHz_10s.wav	10	6.0	-3.0	1.42	
48k_315Hz_1kHz_10s.wav	10	6.0	-2.9	1.40	
48k_csek_8k_441_white_10s.wav	10	13.8	-10.5	3.34	
48k_multisine_50-5000_10s.wav	10	11.1	-7.9	2.49	
48k_voice_1kHz_1s.wav	1	16.2	-12.7	4.33	
48k_voice_300-3000_2s.wav	2	21.6	-18.6	8.48	

(*) The gain for the specific signal shall typically be multiplied by this factor to acheive approx. the same level as for the 1kHz sine signal.

Insert the gain applicable for your setup in the last column of the table.

Input Level for GSM/UMTS/VoLTE

Gain Value	dBm0	Full scal Voltage	dB	AMMI audio out dBv (RMS)	AMCC Coil Out (dBv (RMS)		
	3.14	1.5		0.51			
100	5.87		40	3.24	3.39		
8.06	-16		18.13		-18.48		
Signal Type	Duration (s)	Peak to RMS (dB)	RMS (dB)	Gain Factor	Gain Setting		
1kHz sine	-	3	0	1	8.06		
48k_voice_1kHz	1	16.2	-12.7	4.33	34.92		
48k_voice_300-3000	2	21.6	-18.6	8.48	68.39		



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3.3 System Calibration

For correct and calibrated measurement of the voltages and ABM field, DASY will perform a calibration job as below.

In phase 1, the audio output is switched off, and a 200 mVpp symmetric rectangular signal of 1 kHz is generated and internally connected directly to both channels of the sampling unit (Coil in, Probe in).

In phase 2, the audio output is off, and a 20 mVpp symmetric 100 Hz signal is internally connected. The signals during phases 1 and 2 are available at the output on the rear panel of the AMMI. However, the output must not be loaded, in order to avoid influencing the calibration. An RMS voltmeter would indicate 100 mVRMS during the first phase and 10 mVRMS during the second phase. After the first two phases, the two input channels are both calibrated for absolute measurements of voltages. The resulting factors are displayed above the multi-meter window.

After phases 1 and 2, the input channels are calibrated to measure exact voltages. This is required to use the inputs for measuring voltages with their peak and RMS value.

In phase 3, a multi-sine signal covering each third-octave band from 50 Hz to 10 kHz is generated and applied to both audio outputs. The probe should be positioned in the center of the AMCC and aligned in the z-direction, the field orientation of the AMCC. The "Coil In" channel is measuring the voltage over the AMCC internal shunt, which is proportional to the magnetic field in the AMCC. At the same time, the "Probe In" channel samples the amplified

signal picked up by the probe coil and provides it to a numerical integrator. The ratio of the two voltages in each third-octave filter leads to the spectral representation over the frequency band of interest. The Coil signal is scaled in dBV, and the Probe signal is first integrated and normalized to show dB A/m. The ratio probe-to-coil at the frequency of 1 kHz is the sensitivity which will be used in the consecutive T-Coil jobs.



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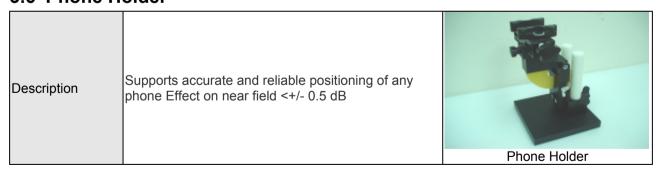
3.4 Audio Magnetic Probe AM1DV3

Description	Active single sensor probe for both axial and radial measurement scans- Fully RF shielded, compatible with DAE, with adapted probe cup	
Dynamic Range	0.1 KHz to 20 KHz	
Sensitivity	<-50dB A/m @ 1KHz	
Internal Amp	20dB	
Dimensions	300X18mm	
		AM1DV3 Audio Probe

3.5 Test Arch

Description	Enables easy and well defined positioning of the phone and validation dipoles as well as simple teaching of the robot.	
Dimensions	length: 370 mm width: 370 mm height: 370 mm	Test Arch

3.6 Phone Holder





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3.7 AMCC- Audio Magnetic Calibration Coil

Allows calibration of the complete measurement setup, the two horizontal coils create a homogeneous magnetic field in the z direction. Refer to Appendix 5 for more detail on AMCC coil



3.8 AMMI - Audio Magnetic Measurement Instrument

Description	-USB interface to PC - Probe signal digitization and power supply- Test signal generation for wireless device (via base station simulator)- Autocalibration and interfaces to AMCC for complete setup-calibration	AMMI AMMI
Data Rate	48 KHz / 24bit	
Dynamic Range	85 dB	
Dimensions:	19" X 65 X 270mm	



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4 Measurement uncertainty evaluation

Through the standard of the st												
Error Description	Uncertainty Value (%)	Probability Dist.	Divisor	ci ABM1	ci ABM2	Standard Uncertainty ABM1 (%)	Standard Uncertainty ABM2 (%)					
Related to probe sensitivity												
Reference level	±3.0	R	$\sqrt{3}$	1	1	±3.0	±3.0					
AMCC geometry	±0.4	R	$\sqrt{3}$	1	1	±0.2	±0.2					
AMCC current	±0.6	R	$\sqrt{3}$	1	1	±0.4	±0.4					
Probe positioning during calibration	±0.2	R	$\sqrt{3}$	1	1	±0.1	±0.1					
Noise distribution	±0.7	R	$\sqrt{3}$	0.0143	1	±0.0	±0.4					
Frequency slope	±5.9	R	$\sqrt{3}$	0.1	1	±0.3	±3.5					
Related to probe system												
Repeatability / drift	±1.0	R	$\sqrt{3}$	1	1	±0.6	±0.6					
Linearity / dynamic range	±0.6	N	1	1	1	±0.4	±0.4					
Audio noise	±1.0	R	$\sqrt{3}$	0.1	1	±0.1	±0.6					
Probe angle	±2.3	R	$\sqrt{3}$	1	1	±1.4	±1.4					
Spectral Processing	±0.9	R	$\sqrt{3}$	1	1	±0.5	±0.5					
Integration time	±0.6	N	1	1	5	±0.6	±3.0					
Field distribution	±0.2	R	$\sqrt{3}$	1	1	±0.1	±0.1					
Test signal												
Reference signal spectrum response	±0.6	R	$\sqrt{3}$	0	1	±0.0	±0.4					
Positioning												
Probe positioning	±1.9	R	$\sqrt{3}$	1	1	±1.1	±1.1					
Phantom Thickness	±0.9	R	$\sqrt{3}$	1	1	±0.5	±0.5					
DUT positioning	±1.9	R	$\sqrt{3}$	1	1	±1.1	±1.1					
External Contributions												
RF interference	±0.0	R	$\sqrt{3}$	1	0.3	±0.0	±0.0					
Test Signal Variation	±2.0	R	$\sqrt{3}$	1	1	±1.2	±1.2					
Combined Std. Uncertainty (ABM Field)		$u_c' = \sqrt{\sum_{i=1}^{20}}$	$c_i^2 u_i^2$			±4.1	±6.2					
Expanded Std. Uncertainty (K=2)						±8.2	±12.4					

Table 2: Measurement uncertainties for T-Coil



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HAC (T-Coil) Measurement 5

5.1 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 1 and Figure 2 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.

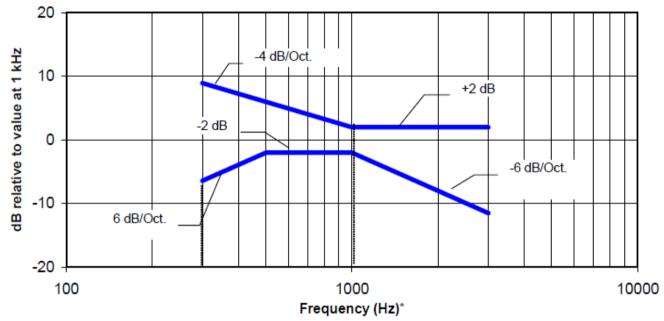


Figure 1—Magnetic field frequency response for WDs with a field ≤ -15 dB (A/m) at 1 kHz



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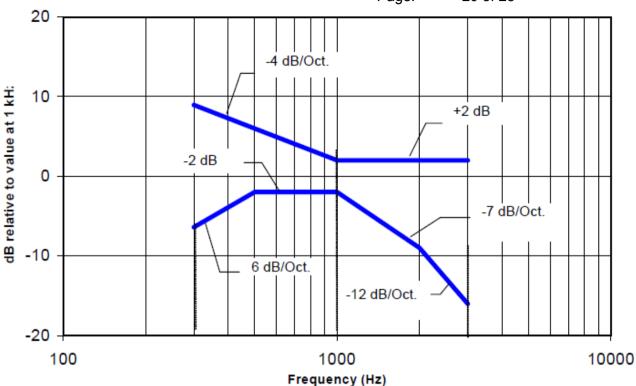


Figure 2 —Magnetic field frequency response for WDs with a field that exceeds -15dB(A/m) at 1 kHz

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 3

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 3: T-Coil signal quality categories



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5.2 T-Coil measurement points and reference plane

Figure 3 illustrate the references and reference plane that shall be used in a typical EUT emissions measurement. The principle of this section is applied to EUT with similar geometry. Please refer to Appendix C for the setup photographs.

- ◆ The area is 5 cm by 5 cm.
- The area is centered on the audio frequency output transducer of the EUT.
- ♦ The area is in a reference plane, which is defined as 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 EUT handset, which, in normal handset use, rest against the ear.
- ◆ The measurement plane is parallel to, and 10 mm in front of, the reference plane.

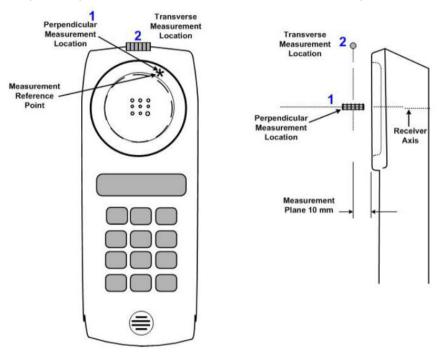


Figure 3 Axis and planes for WD audio frequency magnetic field measurements



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5.3 T-Coil Measurement Procedure

According to ANSI C63.19-2011, section 7.4:

This section describes the procedures used to measure the ABM (T-Coil) performance of the WD. In addition to measuring the absolute signal levels, the A-weighted magnitude of the unintended signal shall also be determined. To assure that the required signal quality is measured, the measurement of the intended signal and the measurement of the unintended signal must be made at the same location for each measurement position. In addition, the RF field strength at each measurement location must be at or below that required for the assigned category.

Measurements shall not include undesired properties from the WD's RF field; therefore, use of a coaxial connection to a base station simulator or nonradiating load might be necessary. However, even with a coaxial connection to a base station simulator or nonradiating load, there might still be RF leakage from the WD, which can interfere with the desired measurement. Premeasurement checks should be made to avoid this possibility. All measurements shall be performed with the WD operating on battery power with an appropriate normal speech audio signal input level given in ANSI C63.19-2011 Table 7.1. If the device display can be turned off during a phone call, then that may be done during the measurement as well.

Measurements shall be performed at two locations specified in ANSI C63.19-2011 A.3, with the correct probe orientation for aparticular location, in a multistage sequence by first measuring the field intensity of the desired T-Coil signal (ABM1) that is useful to a hearing aid T-Coil. The undesired magnetic components (ABM2) shall be examined for each probe orientation to determine the possible effects from the WD display and battery current paths that might disrupt the desired T-Coil signal. The undesired magnetic signal (ABM2) must be measured at the same location as the desired ABM or T-Coil signal (ABM1), and the ratio of desired to undesired ABM signals must be calculated. For the perpendicular field location, only the ABM1 frequency response shall be determined in a third measurement stage.

The following steps summarize the basic test flow for determining ABM1 and ABM2. These steps assume that a sine-wave or narrowband 1/3 octave signal can be used for the measurement of ABM1.

- a) A validation of the test setup and instrumentation may be performed using a TMFS or Helmholtz coil. Measure the emissions and confirm that they are within the specified tolerance.
- b) Position the WD in the test setup and connect the WD RF connector to a base station simulator or a nonradiating load as shown in ANSI C63.19-2011 Figure 7.1 or Figure 7.2. Confirm that the equipment that requires calibration has been calibrated and that the noise level meets the requirements of ANSI C63.19-2011 clause 7.3.1.
- c) The drive level to the WD is set such that the reference input level specified in ANSI C63.19-2011Table 7.1 is input to the base station simulator (or manufacturer's test mode equivalent) in the 1 kHz, 1/3 octave band. This drive level shall be used for the T-Coil signal test (ABM1) at f = 1 kHz. Either a sine wave at 1025 Hz or a voice-like signal, band-limited to the 1 kHz 1/3 octave, as defined in C63.19-2011 clause 7.4.2, shall be used for the reference audio signal. If interference is found at 1025 Hz, an alternative nearby reference audio signal frequency may be used.47 The same drive level shall be used for the ABM1 frequency response measurements at each 1/3 octave band center frequency. The WD volume control may be set at any level up to maximum, provided that a signal at any frequency at maximum modulation would not result in clipping or signal overload.
- d) Determine the magnetic measurement locations for the WD device (A.3), if not already specified by the manufacturer, as described in C63.19-2011 clause 7.4.4.1.1 and 7.4.4.2.
- e) At each measurement location, measure and record the desired T-Coil magnetic signals (ABM1 at fi) as specified in C63.19-2011 clause 7.4.4.2 in each ISO 266-1975 R10 standard 1/3 octave band. The desired audio band input frequency (fi) shall be centered in each 1/3 octave band maintaining the same drive level as determined in item c) and the reading taken for that band.
- f) Equivalent methods of determining the frequency response may also be employed, such as fast Fourier transform (FFT) analysis using noise excitation or input—output comparison using simulated speech. The full-band integrated or half-band integrated probe output, as specified in D.9, may be used, as long as the appropriate calibration curve is applied to the measured result, so as to yield an accurate measurement of the field magnitude. (The resulting measurement shall be an accurate measurement in dB A/m.)
- g) All measurements of the desired signal shall be shown to be of the desired signal and not of an undesired signal. This may be shown by turning the desired signal ON and OFF with the probe measuring the same location.



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If the scanning method is used, the scans shall show that all measurement points selected for the ABM1 measurement meet the ambient and test system noise criteria in C63.19-2011 clause 7.3.1.

h) At the measurement location for each orientation, measure and record the undesired broadband audio magnetic signal (ABM2) as specified in C63.19-2011 clause 7.4.4.4 with no audio signal applied (or digital zero applied, if appropriate) using A-weighting49 and the half-band integrator. Calculate the ratio of the desired to undesired signal strength (i.e., signal quality).

g) Determine the category that properly classifies the signal quality, based on C63.19-2011 Table 8.5.



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6 T-Coil testing for CMRS Voice

6.1 General Description

1. Codec Investigation:

For a voice service/air interface, investigate the variations of codec configurations (WB, NB bit rate) and document the parameters (ABM1, ABM2, S+N/N, frequency response) for that voice service. It is only necessary to document this for one channel/band, the following worst investigation codec would be remarked to be used for the testing for the handset.

2. Air Interface Investigation:

- a. Use the worst-case codec test and document a limited set of bands/channel/bandwidths. Observe the effect of changing the band and bandwidth to ensure that there are no unexpected variations. Using the knowledge of the observed variations, it is necessary to report only a set band/channel/bandwidth for each orientation for a voice service/air interface.
- b. According to the ANSI C63.19 2011 section 7.3.2, test middle channel of each frequency band for HAC testing for each orientation to determine worst HAC T-Coil rating.

6.2 GSM Tests Results

Codec Investigation:

Band	Test Mode	Codec Setting	Test Ch./Freq.	Probe Position	ABM1 (dBA/m)	ABM2 (dBA/m)	Signal Quality (dB)	T Rating	Freq. Response Variation (dB)	Frequency Response
	CSM Vaica			Axial (Z)				T3	0.22	PASS
GOINIOOU	GSM Voice	HR V1	190/836.6	Axial (Z)	-5.78	-27.85	22.07	T3	0.42	PASS

Remark: According to codec investigation, the worst codec is FR_V1

Air Interface Investigation:

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Band	Test Mode	Test Ch./Freq.	Probe Position	ABM1 (dBA/m)	ABM2 (dBA/m)	Signal Quality (dB)	T Rating	Freq. Response Variation (dB)	Frequency Response
CCMOEO	GSM Voice	190/836.6	Axial (Z)	-5.37	-25.49	20.12	T3	0.22	PASS
GSIVIOSU	GSIVI VOICE	190/030.0	Transversal (Y)	-17.08	-38.93	21.85	T3	1	1
GSM1900 GSM Voice	661/1990	Axial (Z)	-1.56	-25.22	23.66	T3	0.78	PASS	
	GSIVI VOICE	ce 661/1880	Transversal (Y)	-12.97	-36.31	23.34	T3	1	/

Remark:

- 1. Phone Condition: Mute on; Backlight off; Max Volume
- 2. The detail frequency response results please refer to appendix A.



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6.3 UMTS Tests Results

Codec Investigation:

Band	Test Mode	Test Ch./Freq.	Probe Position	ABM1 (dBA/m)	ABM2 (dBA/m)	Signal Quality (dB)	T Rating	Freq. Response Variation (dB)	Frequency Response	Codec Setting
	AMR Voice	4182/836.4	Axial (Z)	-8.94	-42.63	33.69	T4	1.87	PASS	4.75kbps
WCDMA Band V	AMR Voice	4182/836.4	Axial (Z)	-9.16	-42.51	33.35	T4	0.11	PASS	7.95kbps
	AMR Voice	4182/836.4	Axial (Z)	-9.26	-41.89	32.63	T4	0.27	PASS	12.2kbps

Remark: According to codec investigation, the worst codec is 12.2kbps

Air Interface Investigation:

**** **********************************											
Band	Test Mode	Test Ch./Freq.	Probe Position	ABM1 (dBA/m)	ABM2 (dBA/m)	Signal Quality (dB)	T Rating	Freq. Response Variation (dB)	Frequency Response	Codec Setting	
WCDMA	AMR	9400/1900	Axial (Z)	-9.23	-42.58	33.35	T4	0.29	PASS	12.2kbps	
Band II Void	Voice	9400/1900	Transversal (Y)	-17.23	-46.69	29.46	T3	1	1	12.28005	
WCDMA	AMR	1412/1732.	Axial (Z)	-8.76	-42.19	33.43	T4	0.13	PASS	12.2kbps	
Band IV	Voice	4	Transversal (Y)	-15.99	-46.25	30.26	T4	1	1	12.28008	
WCDMA	DMA AMR	AMR	4182/836.4	Axial (Z)	-9.26	-41.89	32.63	T4	0.27	PASS	12.2kbps
Band V	Voice	4 102/030.4	Transversal (Y)	-16.63	-46.31	29.68	Т3	1	1	12.28005	

Remark:

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- 2. The detail frequency response results please refer to appendix A.



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7 T-Coil testing for CMRS IP Voice

7.1 VoLTE Tests Results

1. Codec Investigation:

For a voice service/air interface, investigate the variations of codec configurations (WB, NB bit rate) and document the parameters (ABM1, ABM2, S+N/N, frequency response) for that voice service. It is only necessary to document this for one channel / band, the following worst investigation codec would be remarked to be used for the testing for the handset.

2. Air Interface Investigation:

- a. Use the worst-case codec test and document a limited set of bands / channel / bandwidths. Observe the effect of changing the band and bandwidth to ensure that there are no unexpected variations. Using the knowledge of the observed variations, it is necessary to report only a set band/channel/bandwidth for each orientation for a voice service/air interface and the following worst configure would be remarked to be used for the testing for the handset.
- b. Select LTE FDD/TDD one frequency band to do measurement at the worst SNR single point position was additionally performed with varying the BWs/Modulations/RB size to verify the variation to find out worst configuration, the observed variation is very little to be within 1.5 dB which is much less than the margin from the rating threshold.
- c. According to the ANSI C63.19 2011 section 7.3.2, test middle channel of each frequency band for HAC testing for each orientation to determine worst HAC T-Coil rating.

LTE FDD Codec Investigation:

	ouce mivestig									
LTE FDD Band	Test Mode	Test Ch./Freq.	Probe Position	ABM1 (dBA/m)	ABM2 (dBA/m)	Signal Quality (dB)		Freq. Response Variation (dB)	Frequency Response	Codec Setting
	20M QPSK 1RB_0	18900/1880	Axial (Z)	-16.50	-43.67	27.17	T3	0.56	PASS	NB AMR 4.75kbps
	20M QPSK 1RB_0	18900/1880	Axial (Z)	-11.79	-38.59	26.80	T3	0.06	PASS	NB AMR 12.2kbps
LTE Band 2	20M QPSK 1RB_0	18900/1880	Axial (Z)	-16.61	-43.70	27.09	T3	0.13	PASS	WB EVS 5.90kbps
LTE Ballu 2	20M QPSK 1RB_0	18900/1880	Axial (Z)	-16.36	-43.10	26.74	T3	0.33	PASS	WB EVS 16.4kbps
	20M QPSK 1RB_0	18900/1880	Axial (Z)	-16.80	-43.50	26.70	T3	0.10	PASS	NB EVS 5.90kbps
	20M QPSK 1RB_0	18900/1880	Axial (Z)	-16.25	-44.51	28.26	T3	0.05	PASS	NB EVS 24.4kbps

Remark: According to codec investigation, the worst codec is NB EVS 5.90kbps



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Air Interface Investigation:

LTE FDD Band	Test Mode	Test Ch./Freq.	Probe Position	ABM1 (dBA/m)	ABM2 (dBA/m)	Signal Quality (dB)	T Rating
	20M QPSK 1RB_0	18900/1880	Axial (Z)	-16.80	-43.50	26.70	T3
	20M QPSK 1RB_50	18900/1880	Axial (Z)	-16.78	-41.00	24.22	T3
	20M QPSK 1RB_99	18900/1880	Axial (Z)	-16.40	-40.55	24.15	T3
	20M QPSK 50RB_0	18900/1880	Axial (Z)	-16.29	-41.30	25.01	T3
	20M QPSK 50RB_25	18900/1880	Axial (Z)	-16.86	-42.49	25.63	T3
	20M QPSK 50RB_50	18900/1880	Axial (Z)	-16.05	-41.48	25.43	T3
LTE Band 2	20M QPSK 100RB_0	18900/1880	Axial (Z)	-16.13	-40.22	24.09	T3
LIE Band 2	20M 16QAM 100RB_0	18900/1880	Axial (Z)	-16.11	-40.64	24.53	T3
	20M 64QAM 100RB_0	18900/1880	Axial (Z)	-16.23	-40.49	24.26	T3
	15M QPSK 1RB_74	18900/1880	Axial (Z)	-16.15	-40.54	24.39	T3
	10M QPSK 1RB_49	18900/1880	Axial (Z)	-16.02	-40.38	24.36	T3
	5M QPSK 1RB_24	18900/1880	Axial (Z)	-16.89	-41.71	24.82	Т3
	3M QPSK 1RB_14	18900/1880	Axial (Z)	-16.93	-42.08	25.15	Т3
	1.4M QPSK 1RB_5	18900/1880	Axial (Z)	-16.82	-42.16	25.34	T3

Remark:

- 1. Select Worst worst codec Bandwidth/Modulation/RB Size from LTE FDD Test results to do LTE FDD
- 2. Select Worst Bandwidth/Modulation/RB Size from LTE FDD Test results to do LTE FDD

Air interface:

LTE FDD Band	Test Mode	Test Ch./Freq.	Probe Position	ABM1 (dBA/m)	ABM2 (dBA/m)	Signal Quality (dB)	T Rating	Freq. Response Variation (dB)	Frequency Response	Codec Setting
LTE Band 2	20M QPSK 100RB 0	18900/1880	Axial (Z)	-16.44	-44.59	28.15	Т3	0.24	PASS	NB EVS 5.90kbps
LTE Ballu 2	ZUWI QPSK TUURB_U	16900/1660	Transversal (Y)	-16.71	-39.06	22.35	T3	1	1	IND EVS 5.90kbps
LTE Band 4	20M QPSK 100RB 0	20175/1732.5	Axial (Z)	-11.45	-39.64	28.19	T3	0.16	PASS	ND EVE F Ookbas
LIE Ballu 4	ZUWI QPSK TUURB_U	20175/1732.5	Transversal (Y)	-16.27	-41.32	25.05	Т3	1	1	NB EVS 5.90kbps
LTE David 5	40M ODOK 50DD 0	00505/000 5	Axial (Z)	-12.38	-41.47	29.09	Т3	0.17	PASS	NB EVS 5.90kbps
LTE Band 5	10M QPSK 50RB_0	20525/836.5	Transversal (Y)	-17.56	-43.67	26.11	Т3	1	1	14D E V 3 3.90KDps
LTE David 40	40M ODOK 50DD 0		Axial (Z)	-12.42	-41.22	28.80	T3	0.10	PASS	ND EVO 5 0014
LTE Band 12	10M QPSK 50RB_0	23095/707.5	Transversal (Y)	-17.05	-43.47	26.42	Т3	1	1	NB EVS 5.90kbps
LTE Devid 47	40M ODOK 50DD 0	00700/740	Axial (Z)	-15.47	-44.17	28.70	T3	0.05	PASS	ND EVO 5 0014
LTE Band 17	10M QPSK 50RB_0	23790/710	Transversal (Y)	-17.17	-43.85	26.68	T3	1	1	NB EVS 5.90kbps
LTE David 00	00M 0D0K 400DD 0	132322/1745	Axial (Z)	-15.30	-44.20	28.90	T3	1.75	PASS	ND EVO 5 0014
LIE Band 66	LTE Band 66 20M QPSK 100RB_0		Transversal (Y)	-17.34	-43.10	25.76	T3	1	1	NB EVS 5.90kbps
LTE Band 71	20M ODEK 100DD 0	133297/680.5	Axial (Z)	-11.28	-40.84	29.56	Т3	1.08	PASS	ND EVE F Ookbas
LTE BAIIU / I	20M QPSK 100RB_0	133297/000.5	Transversal (Y)	-15.92	-42.13	26.21	Т3	1	1	NB EVS 5.90kbps

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8 Equipment list

	Equipment	Manufacturer Model		Serial Number	Calibration Date	Due date of calibration
\boxtimes	Software	SPEAG	DASY52 52.10.4	NA	NCR	NCR
\boxtimes	DAE	SPEAG	DAE4	1740	2022-08-03	2023-08-02
\boxtimes	Audio Magnetic 1D Field Probe	SPEAG	AM1DV3	3115	2022-06-13	2023-06-12
\boxtimes	Test Arch SD HAC	SPEAG	NA	NA	NCR	NCR
\boxtimes	Audio Magnetic Measuring Instrument	SPEAG	AMMI	1028	NCR	NCR
	Audio Magnetic	SPEAG	AMCC	1143	N/A	N/A
\boxtimes	Universal Radio Communication Tester	R&S	CMW500	111637	2022-09-16	2023-09-15
	Humidity and Temperature Indicator	MingGao	MingGao	NA	2022-06-15	2023-06-14

Note:

- 1. All the equipments are within the valid period when the tests are performed.
- 2. NCR: "No-Calibration Required".

9 Calibration certificate

Please see the Appendix B

10 Photographs

Please see the Appendix C

Appendix A: Detailed Test Results

Appendix B: Calibration certificate

Appendix C: Photographs

---END---



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