

Address:

Approved By:

HAC T-Coil Test Report

For

Applicant Name: Sun Cupid Technology (HK) Ltd.

Address: 16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, Kowloon,

Hong Kong.

EUT Name: LTE Smart Phone

Brand Name: NUU
Model Number: S6603L

Serial Model Number: NUU N10, N10

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen,

China

Report Number: BTF240906R00302

Test Standards: ANSI C63.19-2019 FCC 47 CFR §20.19 KDB 285076 D01

KDB 285076 D02

FCC ID: 2ADINS6603L

Test Conclusion: Pass

Test Date: 2025-04-23 to 2025-04-27

Date of Issue: 2025-04-28

Tested By: Jim. Yin

Jim Yin / Tester

Olic Hary

Date: 2025-04-28

Prepared By: Zoey Zhang

Zoey Zhang / Project Engineer

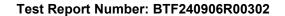
Date: 2025-04-28

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Olic Huang / EMC Manager

Date: 2025-04-28

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.





Revision History				
Version	Issue Date	Revisions Content		
R_V0	2025-04-28	Original		
Note:	Once the revision has l	Once the revision has been made, then previous versions reports are invalid.		

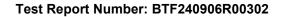
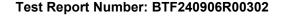




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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, 7 Community, Songgang Street, Bao'an District, Shenzhen, China	
Phone Number: +86-0755-23146130	
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

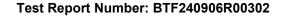
Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.		
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China		
Description:	All measurement facilities used to collect the measurement data are located at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China		
FCC Registration Number	518915		
Designation Number	CN1409		

1.3 Laboratory Condition

Ambient Temperature:	21℃ to 25℃
Ambient Relative Humidity:	48% to 59%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





2. Product Information

2.1 Application Information

Company Name:	Sun Cupid Technology (HK) Ltd.		
Address:	16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, Kowloon, Hong Kong.		

2.2 Manufacturer Information

Company Name:	Sun Cupid Technology (HK) Ltd.		
Address:	16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, Kowloon, Hong Kong.		

2.3 General Description of Equipment under Test (EUT)

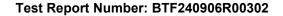
EUT Name	LTE Smart Phone	
Under Test Model Name	S6603L	
Series Model Name	NUU N10, N10	
Description of Model name differentiation	NUU N10, N10 have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with S6603L. The difference lies only the model number. all these changes do not degrade the unwanted emissions of the certified product.	
Sample No.	BTFSN240906007	

2.4 Equipment under Test Ancillary Equipment

	Rechargeable Battery		
Ancillary Equipment 1	Capacity	5000mAh	
	Rated Voltage	3.87V	

2.5 Technical Information

2G Network GSM/GPRS/EGPRS 850/1900		2G Network GSM/GPRS/EGPRS 850/1900
		3G Network WCDMA/HSDPA/HSUPA Band 2/4/5
	Network and Wireless	4G Network FDD LTE Band 2/4/5/12/25/26/66/71
	connectivity	2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/HT40)
		5G WIFI 802.11a, 802.11n(HT20/HT40), 802.11ac(VHT80)
		BT (EDR+BLE)





2.6 Air Interfaces / Bands Indicating Operating Modes

Air Interface	Band	C63.19 Tested	Туре	Simultaneous Transmi tter	Name of Service	Power Reduction
	850	Yes	VO	WLAN & BT	CMRS Voice	No
GSM	1900	Yes	VO	WLAN & BT	CMRS Voice	No
	GPRS/EGPRS	Yes	DT	N/A	N/A	No
	Band II	Yes	VO	WLAN & BT	CMRS Voice	No
14/05144	Band IV	Yes	VO	WLAN & BT	CMRS Voice	No
WCDMA	Band V	Yes	VO	WLAN & BT	CMRS Voice	No
	HSPA	Yes	DT	N/A	N/A	No
	Band 2	Yes	VD	WLAN & BT	VoLTE	No
	Band 4	Yes	VD	WLAN & BT	VoLTE	No
	Band 5	Yes	VD	WLAN & BT	VoLTE	No
LTE	Band 12	Yes	VD	WLAN & BT	VoLTE	No
LTE	Band 25	Yes	VD	WLAN & BT	VoLTE	No
	Band 26	Yes	VD	WLAN & BT	VoLTE	No
	Band 66	Yes	VD	WLAN & BT	VoLTE	No
	Band 71	Yes	VD	WLAN & BT	VoLTE	No
WLAN	2.4g&5g	No	DT	WWAN	N/A	No
ВТ	2450	No	DT	WWAN	N/A	No

NA: Not Applicable
VO: Voice Only
VD: CMRS and IP Voice Service over Digital Transport
DT: Digital Transport Only

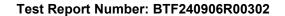
Notes:

1. For protocols not listed in Table 6.1 of ANSI C63.19:2019,the average speech level of -20 dBm0 should be used.

3. Summary of Test Results

3.1 Test Standards

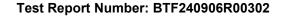
No.	Identity	Document Title			
1	ANSI C63.19-2019	American National Standard for Methods of Measurement of Compatibility between Wireless Communication Devices and Hearing Aids			
2	FCC 47 CFR §20.19	Hearing Aid Compatible Mobile Headsets			
3	KDB 285076 D01	HAC Guidance v06r04			
4	KDB 285076 D02	T-coil testing for CMRS IP v04			





3.2 Attestation of Testing Summary

Frequency Band	Frequency Response	result
GSM 850	Pass	Pass
GSM 1900	Pass	Pass
WCDMA II	Pass	Pass
WCDMA IV	Pass	Pass
WCDMA V	Pass	Pass
LTE Band 2	Pass	Pass
LTE Band 4	Pass	Pass
LTE Band 5	Pass	Pass
LTE Band 12	Pass	Pass
LTE Band 25	Pass	Pass
LTE Band 26	Pass	Pass
LTE Band 66	Pass	Pass
LTE Band 71	Pass	Pass





4. Test Uncertainty

UNCERTAINTY EVALUATION FOR AUDIO HAC MEASUREMENT								
Uncertainty Component	Tol (+- %)	Prob. Dist.	Div.	Uncertainty (dB)	Uncertainty (%)			
	Measurement Sy	stem						
RF reflections	0.1	R	√3	0.06				
Acoustic noise	0.1	R	√3	0.06				
Probe coil sensitivity	0.49	R	√3	0.28				
Reference signal level	0.25	R	√3	0.14				
Positioning accuracy	0.4	R	√3	0.23				
Cable loss	0.1	N	2	0.05				
Frequency analyzer	0.15	R	√3	0.09				
System repeatability	0.2	N	1	0.20				
Repeatability of the WD	0.4	N	1	0.40				
Combined Standard Uncertainty		N	1	0.61				
Expanded uncertainty (confidence level of 95%,k = 2)		N	K=2	1.22	15.05			
REPORTED Expanded uncertainty (confidence level of 95%, k = 2)		N	K=2	1.20	15.00			





5. Measurement System

5.1 Definition of Hearing Aid Compatibility (HAC)

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:

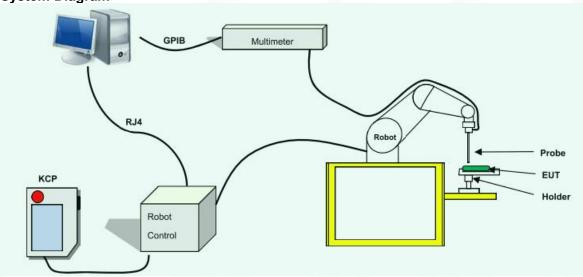
- a) RF E-Field emissions
- b) T-coil mode, magnetic signal strength in the audio band
- c) T-coil mode, magnetic signal and noise articulation index
- d) T-coil mode, magnetic signal frequency response through the audio band Corresponding to the WD measurements, the hearing aid is measured for:
- a) RF immunity in microphone mode
- b) RF immunity in T-coil mode





5.2 MVG HAC System

MVG HAC System Diagram



5.2.1 Robot



A standard high precision 6-axis robot (Denso) with te aches pendant with Scanning System

- · It must be able to scan all the volume of the phanto m to evaluate the tridimensional distribution of SAR.
- \cdot Must be able to set the probe orthogonal of the surface of the phantom ($\pm 30^{\circ}$).
- · Detects stresses on the probe and stop itself if nece ssary to keep the integrity of the probe.



5.2.2 T-coil Probe



Figure 1 – MVG COMOHAC T-coil Probe

Coil Dimension	6.55 mm length * 2.29 mm diameter
DC resistance	860.6 Ω
Wire size	51AWG
Inductance at 1 kHz	132.1 mH at 1 kHz

Device Under Test							
Device Type COMOHAC T-COIL PROBE							
Manufacturer	MVG						
Model	STCOIL						
Serial Number	SN 07/17 TCP38						
Product Condition (new / used)	New						
Frequency Range of Probe	200-5000 Hz						

This probe is designed to fulfill ANSI recommendations for the measurement of audio frequency magnetic fields radiated by mobile phones. The T-Coil probe has two connectors:

the 6 male wires connector enables to fix the probe on the robot the BNC connector enables to link the probe to the audio DAQ

This probe was designed for a 6-axis robot. The coil is oriented with a 45 degree angle so that used with a 6-axis robot, both radial and axial measurements can be performed with one probe.

5.2.3 TMFS



MVG COMOHAC Magnetic Simulator

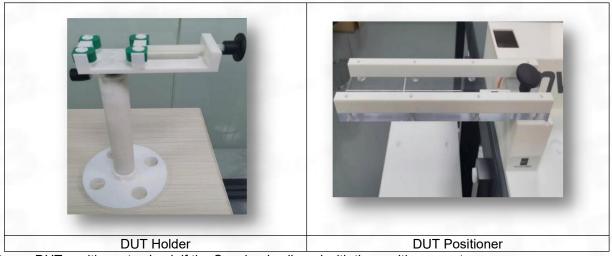




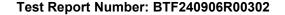
Device Under Test					
Device Type	COMOHAC Magnetic Field Simulator				
Manufacturer	MVG				
Model	STMFS				
Serial Number	SN 13/22 TMFS30				
Product Condition (new / used)	New				
Frequency Range	200-5000 Hz				

All methods used to perform the measurements and calibrations comply with the ANSI C63.19. All measurements were performed with the TMFS in the standard device test configuration, with the TMFS in free space, 10 mm below the coil center.

5.2.4 Device Holder/DUT positioner



During test, use DUT positioner to check if the Speaker is aligned with the positioner center.





5.3 T-Coil Measurement Set-up

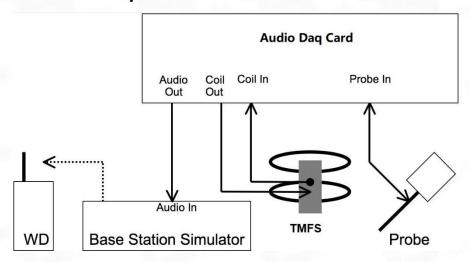
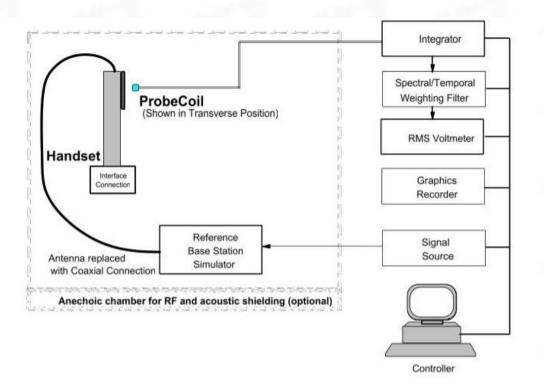
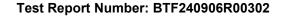


Fig. 2. T-coil signal measurement test setup



Note:

- 1. The setup assumes that the proper reference input level to the base station simulator or phone interface as specified in ANSI C63.19-2019 section 6.4.3.2 has already been determined.
- 2. The receive audio signal for the WD may be injected into the base station simulator, which transmits it to the WD while the WD is on a call. An alternative method is to use the WD manufacturer's test mode, if available. If a manufacturer's test mode is used, it is up to the tester to show that the signal is equivalent to the reference input level into a base station simulator as specified in ANSI C63.19-2019 Table 6.1.





5.4 System Calibration

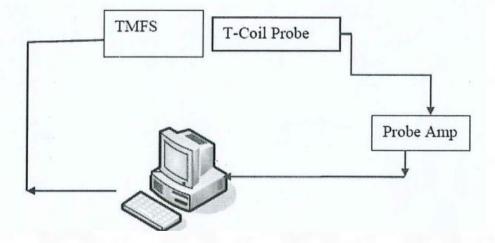
For correct and calibrated measurement of the voltages and ABM field, Denso will perform a calibration job as below.

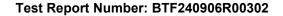
for cable loss calibration:

- a) Use Audio Generator to determine the loss between Audio Generator and TMFS
- b) Audio output power to TMFS: 1025Hz, 500mV.
- c) adjust the audio signal output power to check the cable loss, and use front panel of Multimeter to show target level: 1025Hz, 500mW. (for example, set the audio output power to TMFS: 1025Hz, 0.5924V)

for system verification:

- a) Place TMFS properly—the distance between the center of TMFS and T-coil probe is 10mm.
- b) send the signal to TMFS, and use probe to measure the ABM1 over the TMFS.







6. HAC (T-Coil) Measurement

6.1 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 this standard, there arc two groups of qualifying measurement points:

Primary group: A qualifying measurement point shall have its T-Coil signal, desired ABM signal, >-18 dB(A/m) at I kHz, in a 1/3 octave band filter. These measurements shall be made with the WD operating at a reference input level as specified in Table 6.1. Simultaneously, the qualifying measurement point shall have its weighted magnetic noise, undesired ABM field <-38 dB(A/m).

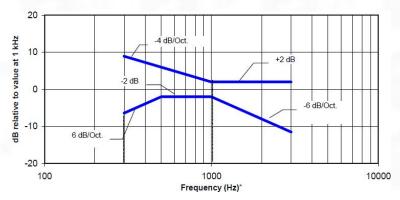
Secondary group: A qualifying measurement point shall have its weighted magnetic noise, undesired ABM field <-38 dB(A/m). This group inherently includes all the members of the primary group.

These levels arc designed to be compatible with hearing aids that produce the same acoustic output level for either an acoustic input level of 65 dB SPL or a magnetic input level of-25 dB(A/m) (56.2 mA/m)39 at either 1.0 kHz or 1.6 kHz. The hearing aid operational measurements are performed per ANSI S3.22-2014.

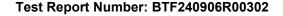
2) Frequency response

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.

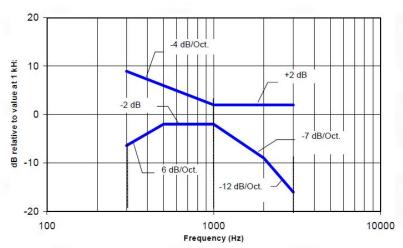
These response curves are for true field strength measurements of the T-Coil signal. Thus the 6 dB/octave probe response has been corrected from the raw readings.



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







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

Desired ABM signal, undesired ABM field qualification requirements Non-2G GSM operating modes>

The goal of this requirement is to ensure an adequate area where desired ABM signal is sufficiently strong to be heard clearly and a larger area where undesired ABM field is sufficiently low as to avoid undue annoyance. Qualifying measurement points shall fulfill the requirements of ANSI 63.19-2019 section 6.6.2; both the primary and secondary group requirements shall be met:

- The primary group shall include at least 75 measurement points.
- The secondary group shall include at least 300 contiguous measurement points.

Additionally, to avoid an oddly shaped area of low noise, the secondary group shall include at least one longitudinal column of at least 10 contiguous qualifying points and at least one transverse row containing at least 15 contiguous qualifying points.

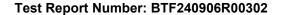
Figure 6.6 is an example of a qualifying scan. The total number of primary group qualifying measurement points is 161, which is ≥75. The total number of secondary group qualifying points is 536, which is ≥300.

The secondary group has a longitudinal column of 26,which is ≥10,and a transverse row also of 26 contiguous points, which is≥15.

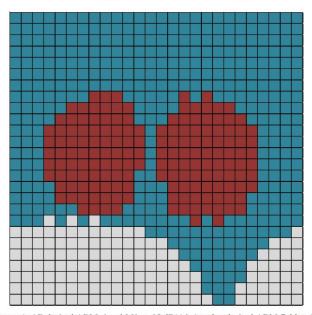
<2G GSM operating modes>

If the 2G GSM operating mode(s) are selected for qualification, the qualifying measurement points shall fulfil the requirements of 6.6.2; both the primary and secondary group requirements shall be met:

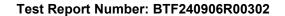
- __ The primary group shall include at least 25 measurement points.
- __ The secondary group shall include at least 125 contiguous measurement points.





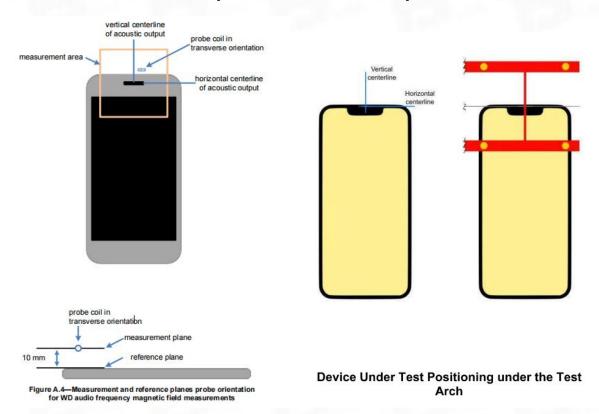


Red (primary group): AB desired ABM signal M1 \ge -18 dB(A/m) and undesired ABM field \le -38 dB(A/m) Blue and red (secondary group): undesired ABM field \le -38 dB(A/m)



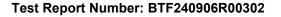


6.2 T-Coil measurement points and reference plane



The T-Coil measurement plane, reference plane and other measurement parameters shall be:

- a) 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.
- b) The measurement plane is parallel to, and 10 mm in front of, the reference plane.
- c) The reference axis is normal to the reference plane and passes through the center of the acoustic output (or the center of the hole array); or may be centered on or near a secondary inductive source. The actual location of the reference axis and resultant measurement area shall be noted in the test report.
- d) The measurement area shall be 50 mm by 50 mm. The measurement area for both desired ABM signal and undesired ABM field may be located where the transverse magnetic measurements are optimum with regard to the requirements. However, the measurement area should be in the vicinity of 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.
- e) Measurements of desired ABM signal strength and undesired ABM field are made at 2.0 mm ± 0.5 mm or 4 mm intervals in an X-Y measurement area pattern over the entire measurement area (676 measurement points total); either all measured, or measured plus interpolated, per 6.4.
- f) Desired ABM signal frequency response is measured at a single location at or near the maximum desired ABM signal strength location.
- g) The actual locations of the measurement points shall be noted in the test report.





6.3 Test procedure for T-Coil signal—preferred

This subclause describes the procedures used to measure the ABM (T-Coil) performance of the WD. Measurements shall be performed over a measurement area 50 mm square, in the measurement plane, as specified in A.3. The measurement area shall be scanned with a uniform measurement point spacing of 2.0 mm ± 0.5 mm in each X-Y axis of the plane, yielding 676 measurement points with approximately even spacing throughout the area.

Optionally, measurement point spacing may be increased to 4 mm, with interpolation employed to yield the required 676 equivalent measurement points distributed uniformly over the 50 mm square measurement area. Interpolated points shall be derived from the average of the linear representations of the field strengths of the nearest two or four equidistant measured points. The area of measurement is increased to a 52 mm square so that edge rows and columns of the required 50 mm square can be either measured or interpolated, with none extrapolated.

In addition to measuring the desired ABM signal levels, the weighted magnitude of the unintended signal shall also be determined. Weighting of the unintended and undesired ABM field shall be by the spectral and temporal weighting described in D.4 through D.6.

In order to assure that the required signal quality is measured, the measurement of the intended signal and the measurement of the unintended signal shall be made at the same locations. Measurements shall not include undesired influence from the WD's RF field; therefore, use of a coaxial connection to a base station simulator or non-radiating load might be necessary. However, even then with a coaxial connection to a base station simulator or non-radiating load there could still be RF leakage from the WD, which could interfere with the desired measurement. Pre-measurement checks should be made to avoid this possibility. All measurements shall be done with the WD operating on battery power with an appropriate normal speech audio signal input level given in Table 6.1. If the device display can be turned off during a phone call, then that may be done during the measurement as well. If tested with the display in the off state this shall be documented in the test report.

Measurements shall be performed with the probe coil oriented in the transverse direction, as illustrated in A.3, that is, aligned in the plane of the measurement area and perpendicular to the long dimension of the WD. A multi-stage sequence consists of first measuring the field strength of the desired T-Coil signal (desired ABM signal) that is useful to a hearing aid T-Coil at each specified measurement point. The undesired magnetic component (undesired ABM field) is then measured in the same transverse orientation at each of the same measurement points. At a single location only, taken at or near the highest desired ABM signal reading, the desired ABM signal frequency response shall be determined in a third measurement stage. The flowchart in Figure 6.3 illustrates this three-stage process.

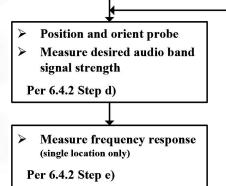


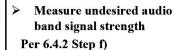
Test flow for T-Coil signal test

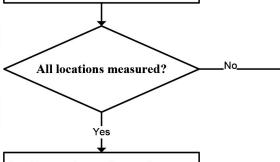
Test Instructions

- > Confirm calibration of test equipment
- > Configure and validate the test setup
- > Establish WD reference level
- > Find measurement locations

Per 6.4.2 Steps a) to c) and A.2



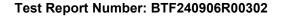




Done

Determine and record the test result

Per 6.4.2 Step g) and 6.6



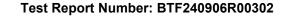


The following steps summarize the basic test flow for determining desired ABM signal and undesired ABM field. These steps assume that a sine wave or narrowband 1/3 octave signal can be used for the measurement of desired ABM signal level. An alternative procedure, yielding equivalent results, using a broadband excitation is described in 6.5.

- a) A validation of the test setup and instrumentation shall be performed. This may be done using a TMFS or Helmholtz Coil. Measure the emissions and confirm that they are within tolerance of the expected values.
- b) Confirm that equipment that requires calibration has been calibrated, and that the noise level meets the requirements given in 6.3.2.
- c) Position the WD in the test setup and connect the WD RF connector to a base station simulator or a non-radiating load (if necessary to control RF interference in the measurement equipment) as shown in Figure 6.1 or Figure 6.2.
- d) The drive level to the WD is set such that the reference input level specified in Table 6.1 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 (desired ABM signal) 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 specified in 6.4.3, 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.35 The same drive level will be used for the desired ABM signal 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.
- e) At each measurement location over the measurement area and in the transverse orientation, measure and record the desired 1 kHz T-Coil magnetic signal (desired ABM signal) as described in Step c).
- f) At or near a location representing a maximum in the just-measured desired ABM signal, measure and record the desired T-Coil magnetic signals (desired ABM signal at f_i) as described in 6.4.5.2 in each individual ISO 266:1975 R10 standard 1/3 octave band. The desired audio band input frequency (f_i) shall be centered in each 1/3 octave band maintaining the same drive level as determined in Step c), and the reading taken for that band.

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 described 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).) Compare the frequency response found to the requirements of 6.6.3.

- g) At the same locations measured in Step d), measure and record the undesired broadband audio magnetic signal (undesired ABM field) with no audio signal applied (or digital zero applied, if appropriate) using the specified spectral weighting, the half-band integrator followed by the temporal weighting.
- h) Calculate and record the location and number of the measurement points that satisfy both the minimum desired ABM signal level and the maximum undesired ABM field level specified in 6.6.2. Compare this to the requirements in 6.6.4 and record the result.
- i) Calculate and record the location and number of the measurement points that satisfy the maximum undesired ABM field level and distribution requirements specified in 6.6.4.





Max. Conducted RF Output Power

2G

		Burst Average Power (dBm)			
		Durst	Average Fower	(ubiii)	
Mode: GSM850	Maximum Tune-up(dBm)	CH128	CH190	CH251	
		824.2MHz	836.6MHz	848.8MHz	
GSM	32.50	32.06	32.00	31.92	
		Burst Average Power (dBm)			
Mode: GSM1900	Maximum Tune-up(dBm)	CH512	CH661	CH810	
		1850.2MHz	1880.0MHz	1909.8MHz	
GSM	29.00	28.56	28.75	28.79	

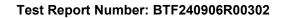
3G

		WCDMA Band II			
Mode	Maximum Tuna un(dPm)	Conducted Power (dBm)			
Mode	Maximum Tune-up(dBm)	CH9262	CH9400	CH9538	
		1852.4	1880.0	1907.6	
RMC 12.2K	21.50	20.70	21.08	21.40	
		WCDMA Band IV			
Mode	Maximum Tune-up(dBm)	Conducted Power (dBm)			
Mode	wiaxiiiuiii Tulie-up(ubiii)	CH1312	CH1413	CH1513	
		1712.4	1732.6	1752.6	
RMC 12.2K	22.50	22.21	21.92	21.72	
		WCDMA Band V			
Mode	Maximum Tune-up(dBm)	Conducted Power (dBm)			
Wode	waxiiiuiii i ulie-up(ubiii)	CH4132	CH4183	CH4233	
		826.4	836.6	846.6	
RMC 12.2K	22.50	21.98	22.12	22.02	

4G

Band 2

Daniel del	Maralada Mara	RB	DD -#1	Mandage Town (dDay)	18700	18900	19100
Bandwidth Modulation	Modulation	allocation	RB offset	Maximum Tune-up(dBm)	1860.0MHz	1880.0MHz	1900.0MHz
			0	22.50	22.24	22.04	22.45
		1	50	23.00	22.12	22.38	22.65
			99	23.00	22.27	22.45	22.68
	QPSK		0	22.00	21.13	21.22	21.58
		50	25	21.50	21.28	21.35	21.45
			50	22.00	21.14	21.34	21.55
20MHz		100	0	22.00	21.20	21.37	21.52
ZUIVIHZ			0	23.00	22.12	21.80	22.75
		1	50	23.00	21.81	21.88	22.82
			99	23.00	21.93	22.04	22.82
16Q <i>A</i>	16QAM		0	21.00	20.25	20.39	20.51
		50	25	21.00	20.26	20.40	20.54
			50	21.00	20.34	20.40	20.53
		100	0	21.00	20.23	20.43	20.68





Band 4

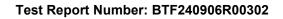
Dan alonials	Ma dulatian	RB	RB offset	DD # A Marriage Town (dDm)	20050	20175	20300
Bandwidth	Modulation	allocation	RB ollset	Maximum Tune-up(dBm)	1720.0MHz	1732.5MHz	1745.0MHz
			0	23.00	22.96	22.54	22.87
		1	50	23.00	22.80	22.39	22.82
			99	23.00	22.68	22.47	22.72
	QPSK		0	22.00	21.93	21.61	21.42
		50	25	22.00	21.93	21.61	21.45
			50	22.00	21.94	21.56	21.46
20141.1-		100	0	22.00	21.78	21.57	21.43
20MHz			0	22.50	22.11	22.14	21.89
		1	50	22.00	21.23	21.99	21.76
			99	22.50	22.03	22.20	21.68
	16QAM		0	21.00	20.91	20.86	20.60
		50	25	21.00	20.95	20.88	20.59
				50	21.00	20.96	20.75
		100	0	21.00	20.88	20.59	20.58

Band 5

)	Modulation	RB	RB	Marrian Trung var (dDas)	20450	20525	20600
Bandwidth	Modulation	allocation	offset	Maximum Tune-up(dBm)	829.0MHz	836.5MHz	844.0MHz
			0	23.50	22.88	23.04	22.99
		1	25	23.00	22.95	22.97	22.95
			49	23.00	23.00	22.96	23.00
	QPSK		0	22.50	22.10	22.05	21.99
		25	13	22.50	22.10	22.06	22.03
			25	22.50	22.10	22.06	22.10
40041.1-		50	0	22.50	22.00	21.95	21.91
10MHz			0	23.00	22.15	22.73	22.71
		1	25	23.00	22.26	22.84	22.63
			49	23.00	22.11	22.69	22.61
	16QAM		0	21.50	21.46	21.09	20.98
		25	13	21.50	21.47	21.14	21.00
			25	22.00	21.50	21.01	21.00
		50	0	21.50	20.99	21.08	20.87

Band 12

Bandwidth	NA - ded - die o	RB	RB	Manadaman Taman (dDan)	23060	23095	23130
	Modulation	allocation	offset	Maximum Tune-up(dBm)	704.0MHz	707.5MHz	711.0MHz
			0	23.50	22.94	23.02	23.00
		1	25	23.00	22.89	22.89	22.96
			49	23.50	22.91	23.06	23.02
	QPSK		0	22.50	21.91	22.14	22.02
		25	13	22.50	21.91	22.13	22.03
			25	22.50	21.90	22.13	22.02
101411-		50	0	22.50	21.88	22.13	22.01
10MHz		1	0	23.00	21.83	22.76	22.72
			25	22.50	21.71	22.46	22.46
			49	23.00	21.85	22.80	22.69
	16QAM		0	21.50	21.01	21.18	20.87
		25	13	21.50	20.99	21.20	20.88
			25	21.50	21.03	21.21	20.88
		50	0	21.50	20.85	20.89	21.43





Band 25

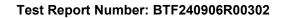
va arada ad dida	NA - ded - fi - o	DD - H fi	RB	Maximum Tune-	26140	26365	26590
Bandwidth Modulatio	Modulation	RB allocation	offset	up(dBm)	1860.0MHz	1882.5MHz	1905.0MHz
			0	22.50	22.24	22.04	22.45
		1	50	23.00	22.12	22.38	22.65
			99	23.00	22.27	22.45	22.68
	QPSK		0	22.00	21.13	21.22	21.58
		50	25	22.00	21.28	21.35	21.58
			50	22.00	21.14	21.34	21.55
000411-		100	0	22.00	21.20	21.37	21.52
20MHz			0	23.00	22.12	21.80	22.75
		1	50	23.00	21.81	21.88	22.82
			99	23.00	21.93	22.04	22.82
10	16QAM		0	21.00	20.25	20.39	20.51
		50	25	21.00	20.26	20.40	20.54
			50	21.00	20.34	20.40	20.53
		100	0	21.00	20.23	20.43	20.68

Band 26

andwidth	Modulation	RB	RB	Maximum Tune-up(dBm)	26865	26915	26965
Danuwium	Wodulation	allocation	offset	waxiiiiuiii Tulie-up(ubiii)	831.5MHz	836.5MHz	841.5MHz
			0	23.50	22.75	23.14	23.03
		1	38	23.50	22.86	23.11	23.13
			74	23.50	22.81	23.13	23.01
	QPSK		0	22.50	21.77	22.23	22.27
		36	18	22.50	21.80	22.05	22.31
			39	22.50	21.81	22.28	22.12
451411-		75	0	22.50	21.78	22.35	22.45
15MHz			0	22.50	22.24	22.16	22.33
		1	38	23.00	22.38	22.53	22.36
			74	23.00	22.52	22.49	21.94
16QAM	16QAM		0	22.00	21.54	21.30	21.27
	36	18	21.50	21.42	21.27	21.37	
		39	21.50	21.38	21.22	21.21	
		75	0	21.50	21.00	21.11	21.30

Band 66

ما فالما أن ما ما ما ما	Madulatian	RB	DD -#4	Massimosom Torra con(dDas)	132072	132322	132572
Bandwidth	Modulation	allocation	allocation RB offset	Maximum Tune-up(dBm)	1720.0MHz	1745.0MHz	1770.0MHz
			0	23.50	23.05	22.46	22.35
		1	50	23.00	22.89	22.41	22.36
			99	23.00	22.66	22.44	22.33
	QPSK		0	22.00	21.88	21.39	21.30
		50	25	22.00	21.88	21.49	21.34
			50	22.00	21.88	21.39	21.32
20MHz		100	0	22.00	21.66	21.48	21.16
ZUIVITZ			0	22.50	22.05	21.98	22.05
		1	50	22.50	22.11	21.51	21.89
			99	22.50	22.10	21.40	21.99
16QA	16QAM		0	21.00	20.86	20.65	20.40
		50	25	21.00	20.89	20.63	20.38
			50	21.00	20.88	20.52	20.34
		100	0	21.00	20.82	20.43	20.29





Band 71

					133222	133322	133372
Bandwidth	Modulation	RB	RB	Maximum Tune-up(dBm)			
		allocation	offset		673.0MHz	683.0MHz	688.0MHz
			0	23.00	22.79	22.80	22.81
		1	50	23.50	23.33	22.87	22.96
			99	23.50	23.07	23.05	23.04
	QPSK	50	0	22.50	22.26	21.84	22.03
			25	22.50	22.32	21.83	22.04
			50	22.50	22.29	21.84	22.04
201411-		100	0	22.50	22.21	21.72	21.79
20MHz			0	23.00	22.61	22.10	22.29
		1	50	23.00	22.89	22.37	22.44
			99	23.00	22.51	22.31	22.90
16QAM	16QAM		0	21.50	21.20	21.31	20.94
		50	25	21.50	21.20	21.33	21.00
			50	21.50	21.21	21.35	21.00
	100	0	21.50	21.28	20.67	20.86	

2.4G

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)
		1	2412	12.42	12.50
	802.11b	6	2437	12.38	12.50
		11	2462	12.67	13.00
		1	2412	10.42	10.50
	802.11g	6	2437	11.14	11.50
2.4g Wifi		11	2462	10.49	10.50
(2.4~2.4835)		1	2412	10.36	10.50
	802.11n(HT20)	6	2437	11.08	11.50
		11	2462	10.38	10.50
		3	2422	9.56	10.00
	802.11n(HT40)	7	2442	9.75	10.00
		11	2462	9.52	10.00

5G

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm
		36	5180	16.59	17.00
	802.11a	40	5200	16.56	17.00
		48	5240	16.72	17.00
	802.11n(HT20)	36	5180	16.95	17.00
U-NII-1 (5.150~5.250)		40	5200	16.87	17.00
(48	5240	16.67	17.00
	000 44=/UT40)	38	5190	13.64	14.00
	802.11n(HT40)	46	5230	13.62	14.00
	802.11ac(VHT80)	42	5210	14.18	14.50



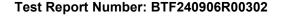
Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)
		52	5260	17.73	18.00
	802.11a	56	5280	17.95	18.00
		64	5320	17.94	18.00
	802.11n(HT20)	52	5260	18.15	18.50
U-NII-2a (5.250~5.350)		56	5280	18.53	19.00
(0.200 0.000)		64	5320	18.69	19.00
	000 44-(UT40)	54	5270	13.22	13.50
	802.11n(HT40)	62	5310	13.68	14.00
	802.11ac(VHT80)	58	5290	13.71	14.00

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm
		100	5500	14.18	14.50
	802.11a	116	5580	13.94	14.00
		140	5700	14.30	14.50
		100	5500	14.28	14.50
	802.11n(HT20)	116	5580	14.09	14.50
U-NII-2c (5.470~5.725)		140	5700	13.77	14.00
(0.470 0.720)		102	5510	12.17	12.50
	802.11n(HT40)	116	5550	12.64	13.00
		134	5670	12.65	13.00
	000 44 - () (LIT00)	106	5530	13.54	14.00
	802.11ac(VHT80)	122	5610	13.92	14.00

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)
		149	5745	17.00	17.00
	802.11a	157	5785	16.94	17.00
		165	5825	17.33	17.50
	802.11n(HT20)	149	5745	17.40	17.50
U-NII-3 (5.725~5.850)		157	5785	17.27	17.50
(0.120 0.000)		165	5825	17.40	17.50
	000 44=/UT40)	151	5755	17.12	17.50
	802.11n(HT40)	159	5795	17.16	17.50
	802.11ac(VHT80)	155	5775	16.01	16.50

Bluetooth

			Average Conducted Output Power (dBm)			
	Mode	Maximum Tune-up(dBm)	0	39	78	
EDR			2402MHz	2441MHz	2480MHz	
	GFSK	8.00	7.83	7.70	7.29	
	8DPSK	7.50	7.05	7.20	6.27	
			Average Conducted Output Power (dBm)			
	Mode	Maximum Tune-up(dBm)	0	20	39	
BLE	BLE		2402MHz	2440MHz	2480MHz	
	1Mbps	1.50	1.04	1.09	0.88	
	2Mbps	1.50	1.00	1.04	0.84	





8. T-Coil Test Result

General Note:

- 1.Phone Condition:Mute on; Backlight off; Max Volume
- 2. 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.
- 3. Air Interface Investigation:
- a. Through Internal radio configuration investigation (e.g.bandwidth, modulation data rate, subcarrier spacings, and resource blocks) that the worst radio configuration was document as below table.
 - b. Use the worst-case codec test and document a limited set of bands/channel/bandwidths.
 - c. According to the ANSI C63.19-2019 section 6.3.3, using a frequency near the center of the frequency band perform T-coil evaluation.

<GSM Evaluation Results>

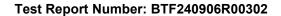
Codec Investigation									
Codec	AMR NB Full Rate	AMR NB Full Rate	EFR NB (FR V2)	Orientation	Band/Channel				
Bit rate	4.75 Kbps	12.2 Kbps	12.2Kbps						
Primary Group Contiguous Point Count	76	82	88						
Secondary Group Contiguous Point Count	164	169	166	Transversal(Y)	GSM 850/190				
Frequency response	Pass	Pass	Pass						
Note: The bold data represents the worst cas	e.								

<WCDMA Evaluation Results>

Codec Investigation								
Codec	NB AMR	WB AMR	NB AMR	WB AMR	Orientation	Band/Channel		
Bit rate	4.75 Kbps	6.6 Kbps	12.2 Kbps	23.85Kbps	Orientation			
Primary Group Contiguous Point Count	448	455	434	441				
Secondary Group Contiguous Point Count	618	616	606	625		WCDMA Band II/9400		
Secondary Group Max Longitudinal	26	26	26	26	Transversal(Y)			
Secondary Group Max Transverse	26	26	26	26				
Frequency response	Pass	Pass	Pass	Pass				
Note: The bold data represents the worst cas	e.			•				

<VoLTE Evaluation Results>

Codec Investigation								
Codec	NB AMR	WB AMR	NB AMR	WB AMR	Orientetien	Band/Channel		
Bit rate	4.75 Kbps	6.6 Kbps	12.2 Kbps	23.85Kbps	Orientation			
Primary Group Contiguous Point Count	368	370	359	362				
Secondary Group Contiguous Point Count	602	596	584	591				
Secondary Group Max Longitudinal	26	26	26	26	Transversal(Y)	LTE Band 2/18900		
Secondary Group Max Transverse	26	26	26	26				
Frequency response	Pass	Pass	Pass	Pass				
Note: The bold data represents the worst cas	e.							





	Air Interface Investigation											
Plot No.	Mode	Channel/Freq.	BW	Probe Position	Modulatio n /Mode	Primary Group Contiguou s Point Count	Secondary Grour Contiguou s Point Count	Secondary Group Ma x Longitudi nal	Secondary Group Ma x Transver se	Freq. Response Variation (dB)	Ambient Noise (dB A/m)	Frequency Response
1	GSM850	190/836.6MHz	1	Transversal (Y)	Voice	76	164	/	/	1.53	-49.26	Pass
2	PCS1900	661/1880.0MHz	1	Transversal (Y)	Voice	86	178	1	1	1.54	-49.55	Pass
3	WCDMA Band II	9400/1880.0MHz	1	Transversal (Y)	Voice	434	606	26	26	1.61	-50.26	Pass
4	WCDMA Band IV	1413/1732.6MHz	1	Transversal (Y)	Voice	452	623	26	26	1.50	-50.59	Pass
5	WCDMA Band V	4183/836.6MHz	1	Transversal (Y)	Voice	447	610	26	26	1.52	-50.30	Pass
6	LTE FDD Band 2	18900/1880MHz	20MHz_QPSK_1_99	Transversal (Y)	Voice	359	584	26	26	1.58	-50.22	Pass
7	LTE FDD Band 4	20175/1732.5MHz	20MHz_QPSK_1_0	Transversal (Y)	Voice	385	610	26	26	1.49	-50.85	Pass
8	LTE FDD Band 5	20525/836.5MHz	10MHz_QPSK_1_0	Transversal (Y)	Voice	423	543	26	26	1.55	-50.03	Pass
9	LTE FDD Band 12	23095/707.5MHz	10MHz_QPSK_1_49	Transversal (Y)	Voice	467	581	26	26	1.62	-50.18	Pass
10	LTE FDD Band 25	26365/1882.5MHz	20MHz_QPSK_1_99	Transversal (Y)	Voice	448	559	26	26	1.58	-50.26	Pass
11	LTE FDD Band 26	26865/831.5MHz	15MHz_QPSK_1_0	Transversal (Y)	Voice	465	576	26	26	1.55	-50.45	Pass
12	LTE FDD Band 66	132322/1745MHz	20MHz_QPSK_1_0	Transversal (Y)	Voice	404	545	26	26	1.63	-50.28	Pass
13	LTE FDD Band 71	133322/683MHz	20MHz_QPSK_1_99	Transversal (Y)	Voice	417	562	26	26	1.50	-50.36	Pass

Remark:

1. There is special HAC mode software on this EUT.

2. The volume was adjusted to maximum level and the backlight turned off during T-Coil testing



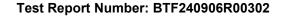


9. Test Equipment List

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
PC	Dell	N/A	N/A	N/A	N/A
Test Software	MVG	N/A	OpenHAC V5.1.3	N/A	N/A
6 1/2 Multimeter	Keithley	DMM6500	4527164	2024/10/25	2025/10/24
Audio Card	National Instruments	NI PCI-4461	01C4B4EB	N/A	N/A
WIDEBAND RADIO COMMUNICATION T ESTER	ROHDE&SCHWARZ	CMW500	161997	2024/10/25	2025/10/24
COMOHAC T-Coil Probe	MVG	STCOIL	07/17 TCP38	2025/02/05	2026/02/04
TMFS	MVG	STMFS	SN 13/22 TMFS30	N/A	N/A
Antenna network emulator	MVG	ANTA 74	07/22 ANTA 74	1	1

ANNEX A System Validation Result

Input Level (mV)	Axial Description	Location	Magnetic Field Measurement (dBA/m)	Magnetic Field Target (dBA/m)	Magnetic Field Deviation	Limit (dBA/m)
	Axial	Max	-11.61	-10.79	-0.82	±0.85
	Radial H	Right	-17.43	-16.88	-0.55	±0.85
500		Left	-17.37	-16.75	-0.62	±0.85
		Upper	-18.32	-17.49	-0.83	±0.85
		Lower	-17.55	-17.25	-0.30	±0.85





System check at 0.00 MHz Date of measurement: 23/4/2025

Experimental Conditions

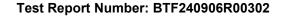
Probe	SN_0717_TCP38
Signal	-
Band	a Tillian -
Channels	-
Channels Number	-
Frequency (MHz)	0.00

Raw data result

	Axial	Radial H	Radial V
ABM1 first maximum dB(A/m)	-11.61	-17.43	-18.32
ABM1 second maximum dB(A/m)		-17.37	-17.55
ABM2 first maximum dB(A/m)		- 1	_
ABM2 second maximum dB(A/m)			-
SNR first maximum dB		- 10	-
SNR second maximum dB	-	-	

Desired signal (ABM1) scans

	Axial	Radial H	Radial V	
Image	70 00 (0000) 	# 66 desc. 22 49 23 49 24 79 24 79 24 79 25 7	# 60 Area # 145 ZZ 2 200 2 200	
Audio frequency (Hz)	1025	1025	1025	
Scan area: length (mm), width (mm)	70.00, 70.00	70.00, 70.00	70.00, 70.00	
Measurement point spacing (mm)	5	5	5	
distance to reference plane (mm)	10.00	10.00	10.00	
X and Y offset with the reference point (mm)	0.00, 0.00	0.00, 0.00	0.00, 0.00	
Number of measurement points	225	225	225	





ANNEX B Test Data

Measurement at GSM850

Date of measurement: 23/4/2025

Experimental Conditions

Probe	SN_0717_TCP38
Signal	GSM
Band	GSM850
Channels	Middle
Channels Number	190
Frequency (MHz)	836.60

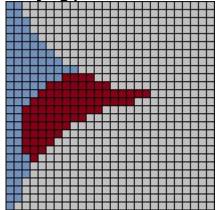
Results

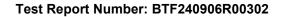
Device compliant	Yes
Measurement status	Complete

Requirement verification

C63.19	Mode	Band	Test	Minimum limit	Measured	Verdict
7.3.1.1			Description Primary group size	25	76	PASS
7.3.1.2		GSM GSM85	Secondary group size	125	164	PASS
7.3.1.3			Secondary Group Max Longitudinal	-	26	PASS
7.3.1.4	GSM		Secondary Group Max Transverse	-	18	PASS
7.3.2			Frequency response inside boundaries	-	1.53	PASS

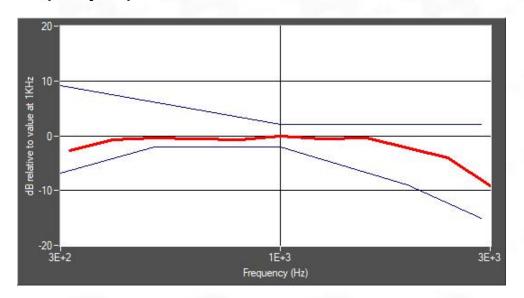


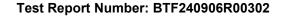






Frequency response (field that exceeds -15 dB)







Measurement at WCDMA Band 2 (1900)Date of measurement: 24/4/2025

Experimental Conditions

Probe	SN_0717_TCP38
Signal	W-CDMA
Band	Band 2 (1900)
Channels	Middle
Channels Number	9400
Frequency (MHz)	1880.0

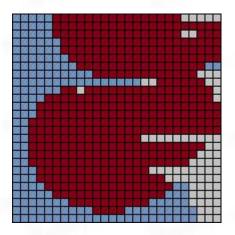
Results

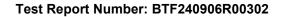
Device compliant	Yes
Measurement status	Complete

Requirement verification

it voilile	ation						
C63.19	Mode	Band	Test Description	Minimum limit	Measured	Verdict	
7.3.1.1		WCDMA Band2_ WCDM A1900	Primary group size	75	434	PASS	
7.3.1.2			Secondary group size	300	606	PASS	
7.3.1.3			Secondary Group Max Longitudinal	10	26	PASS	
7.3.1.4	WCDMA		Secondary Group Max Transverse	15	26	PASS	
7.3.2		2		Frequency response inside boundaries	-	1.61	PASS

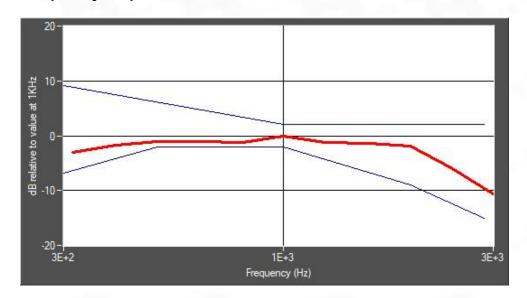
Qualifying points

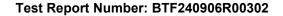






Frequency response (field that exceeds -15 dB)







Measurement at LTE Band 2

Date of measurement: 25/4/2025

Experimental Conditions

Probe	SN_0717_TCP38 LTE FDD LTE band 2 Middle 18900		
Signal			
Band			
Channels			
Channels Number			
Frequency (MHz)	1880.0		

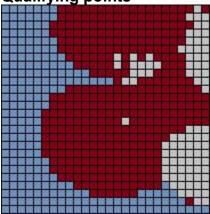
Results

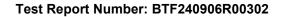
Device compliant	Yes	
Measurement status	Complete	

Requirement verification

it verille	40011					
C63.19	Mode	Band	Test Description	Minimum limit	Measured	Verdict
7.3.1.1	LTE FDD band 2		Primary group size	75	359	PASS
7.3.1.2			Secondary group size	300	584	PASS
7.3.1.3			Secondary Group Max Longitudinal	10	26	PASS
7.3.1.4		band	Secondary Group Max Transverse	15	26	PASS
7.3.2			Frequency response inside boundaries	-	1.58	PASS

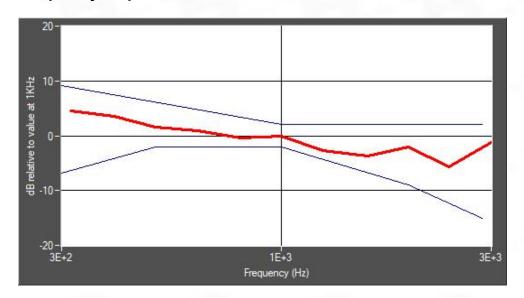








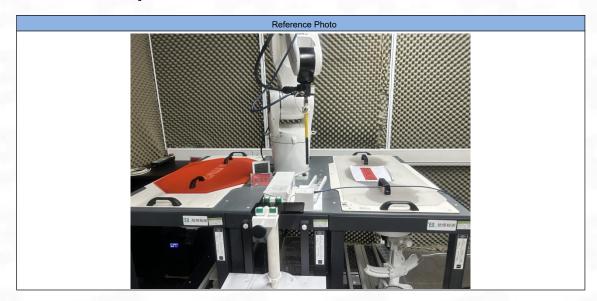
Frequency response (field that exceeds -15 dB)



Test Report Number: BTF240906R00302



ANNEX C Test Setup Photo



ANNEX D EUT External & Internal Photos

Please refer to RF Report.

ANNEX E Calibration Information

Please refer to the document "Calibration.pdf".



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www.btf-lab.com

--END OF REPORT--