



HAC T-Coil Test Report

For

Applicant Name: FOXX Development Inc.
Address: 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA
EUT Name: Smart Phone
Brand Name: MIRO, FOXX, FOXXD, AIRVOICE, FOXXD HTH
Model Number: C69M

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: 101/201/301, Building 1, Block 2, Tantou Industrial Park,
Tantou Community, Songgang Subdistrict, Bao'an District,
Shenzhen, China

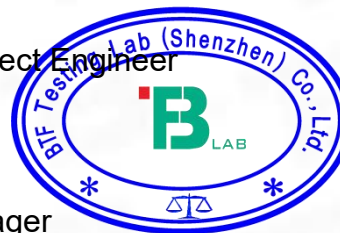
Report Number: BTF250821R00502-1
Test Standards: ANSI C63.19-2019 FCC 47 CFR §20.19 KDB 285076 D01
KDB 285076 D02 KDB 285076 D03
FCC ID: 2AQRM-C69M

Test Conclusion: Pass
Test Date: 2025-10-02 to 2025-10-12
Date of Issue: 2025-12-08

Tested By: Kris . Li
Date: Kris Li / Tester
2025-12-08

Reviewed By: Amenda Zhong
Date: Amenda Zhong / Project Engineer
2025-12-08

Approved By: Ryan.CJ
Date: Ryan.CJ / EMC Manager
2025-12-08



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Revision History		
Version	Issue Date	Revisions Content
R_V0	2025-10-13	Original
R_V1	2025-12-08	Based on the original report, the table on page 6 has been modified.
Note:	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:	101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, 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:	101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Description:	All measurement facilities used to collect the measurement data are located at 101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
FCC Registration Number	518915
Designation Number	CN1409

1.3 Laboratory Condition

Ambient Temperature:	21°C to 25°C
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:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.2 Manufacturer Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.3 Factory Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.4 General Description of Equipment under Test (EUT)

EUT Name	Smart Phone
Under Test Model Name	C69M
Sample No.	BTFSN250821002

2.5 Equipment under Test Ancillary Equipment

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

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EGPRS 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/12/13/25/66/71 TDD LTE Band 41 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) Bluetooth (EDR+BLE)
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2.7 Air Interfaces / Bands Indicating Operating Modes

Air Interface	Band	C63.19 Tested	Type	Simultaneous Transmitter	Name of Service	Protocol	Input(dBm0)	Power Reduction
GSM	850	Yes	VO	WLAN & BT	CMRS Voice	GSM	-16	No
	1900	Yes	VO	WLAN & BT	CMRS Voice	GSM	-16	No
	GPRS/EGPRS	Yes	DT	N/A	N/A	N/A	N/A	No
WCDMA	Band II	Yes	VO	WLAN & BT	CMRS Voice	UMTS(WCDMA)	-16	No
	Band IV	Yes	VO	WLAN & BT	CMRS Voice	UMTS(WCDMA)	-16	No
	Band V	Yes	VO	WLAN & BT	CMRS Voice	UMTS(WCDMA)	-16	No
	HSPA	Yes	DT	N/A	N/A	N/A	N/A	No
LTE	Band 2	Yes	VD	WLAN & BT	VoLTE	Voice over Internet Protocol	-16	No
	Band 4	Yes	VD	WLAN & BT	VoLTE	Voice over Internet Protocol	-16	No
	Band 5	Yes	VD	WLAN & BT	VoLTE	Voice over Internet Protocol	-16	No
	Band 12	Yes	VD	WLAN & BT	VoLTE	Voice over Internet Protocol	-16	No
	Band 13	Yes	VD	WLAN & BT	VoLTE	Voice over Internet Protocol	-16	No
	Band 25	Yes	VD	WLAN & BT	VoLTE	Voice over Internet Protocol	-16	No
	Band 41	Yes	VD	WLAN & BT	VoLTE	Voice over Internet Protocol	-16	No
	Band 66	Yes	VD	WLAN & BT	VoLTE	Voice over Internet Protocol	-16	No
	Band 71	Yes	VD	WLAN & BT	VoLTE	Voice over Internet Protocol	-16	No
WLAN	2.4g&5g	No	DT	WWAN	N/A	N/A	N/A	No
BT	2450	No	DT	WWAN	N/A	N/A	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.

2. The hearing aid compatibility mode of the prototype was turned on during testing, and all tests were performed in HAC mode.

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
5	KDB 285076 D03	HAC FAQ v01r06

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 13	Pass	Pass
LTE Band 25	Pass	Pass
LTE Band 41	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 System					
RF reflections	0.1	R	$\sqrt{3}$	0.06	
Acoustic noise	0.1	R	$\sqrt{3}$	0.06	
Probe coil sensitivity	0.49	R	$\sqrt{3}$	0.28	
Reference signal level	0.25	R	$\sqrt{3}$	0.14	
Positioning accuracy	0.4	R	$\sqrt{3}$	0.23	
Cable loss	0.1	N	2	0.05	
Frequency analyzer	0.15	R	$\sqrt{3}$	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:

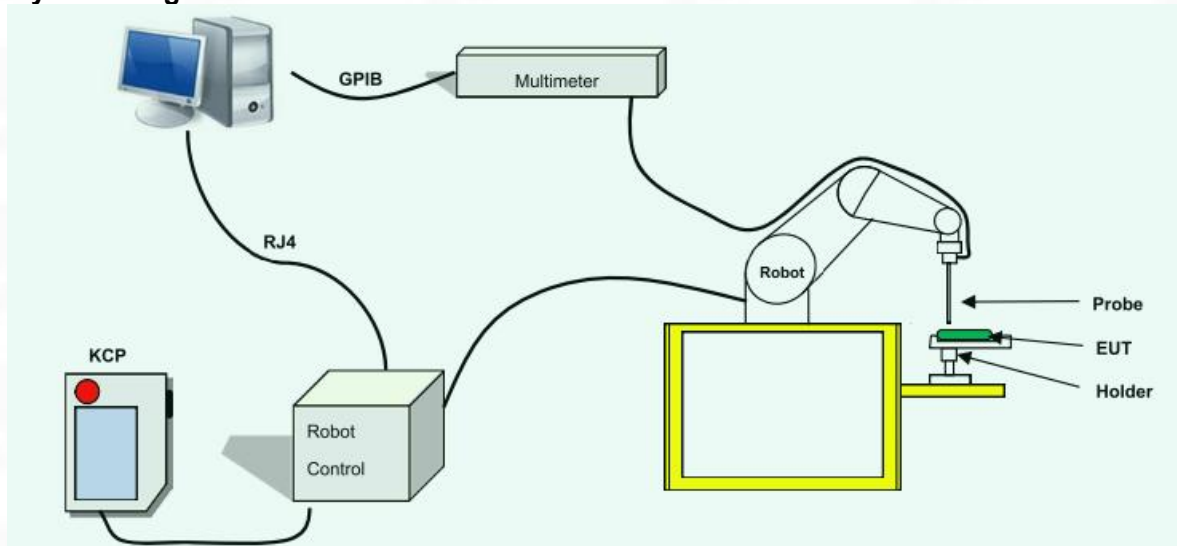
- a) RF E-Field emissions
- b) T-coil mode, magnetic signal strength in the audio band
- c) T-coil mode, magnetic signal and noise articulation index
- d) T-coil mode, magnetic signal frequency response through the audio band

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 a scanning system pendant with Scanning System

- It must be able to scan all the volume of the phantom to evaluate the tridimensional distribution of SAR.
- 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 necessary to keep the integrity of the probe.

5.2.2 T-coil Probe



Figure 1 – MVG COMO HAC 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

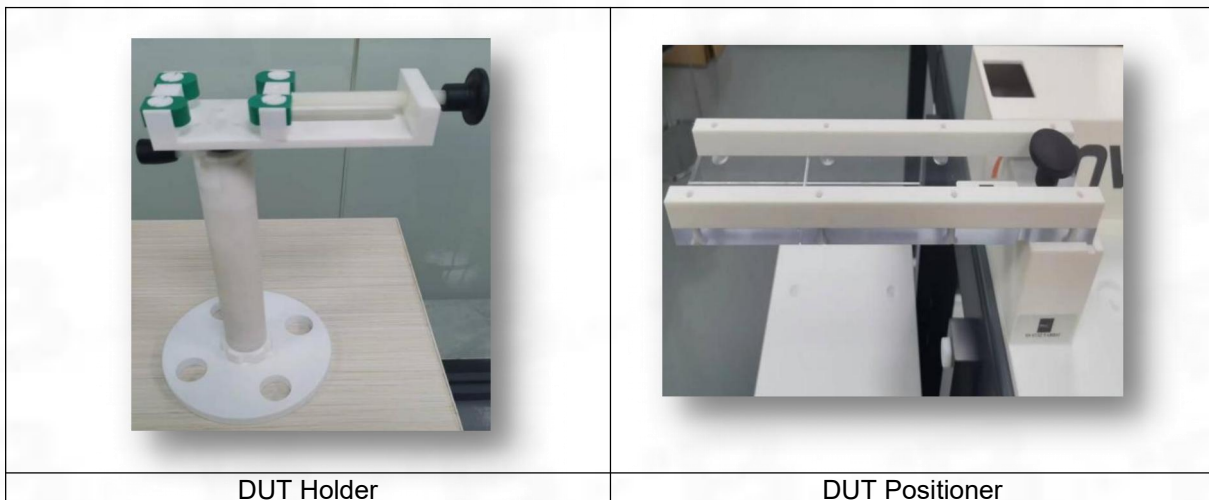


MVG COMO HAC Magnetic Simulator

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

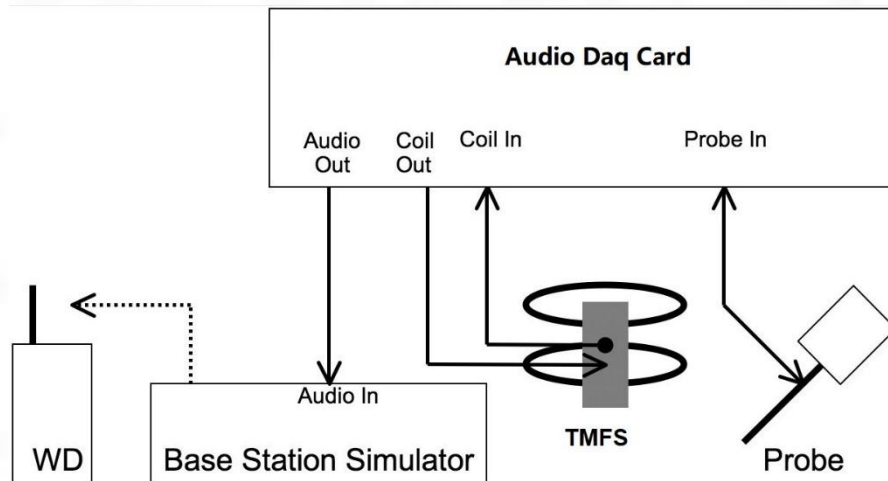
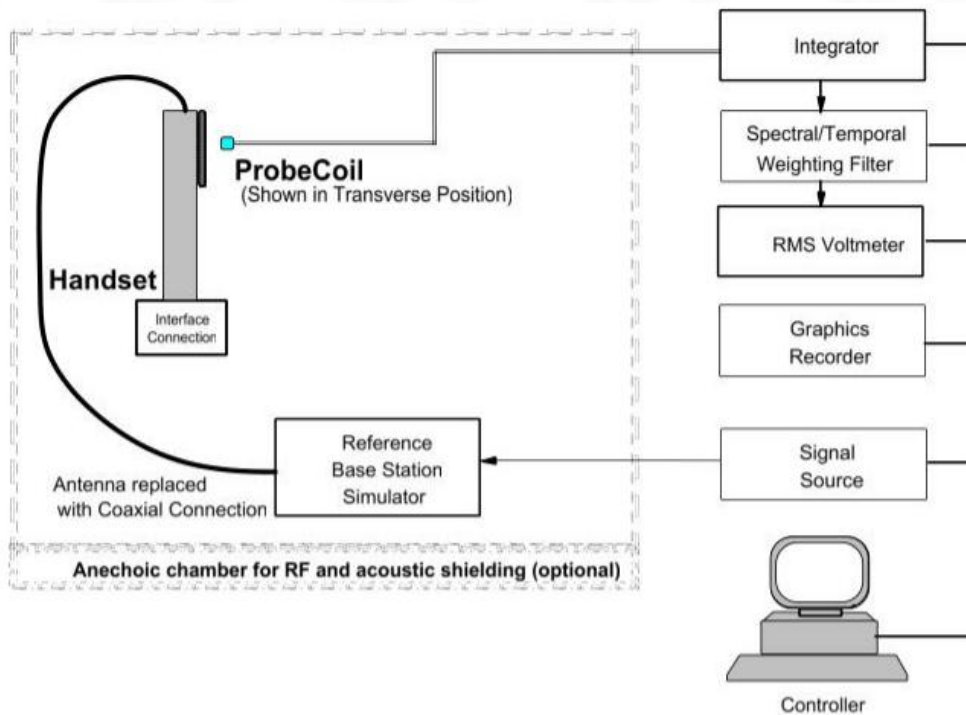


Fig. 2. T-coil signal measurement test setup



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

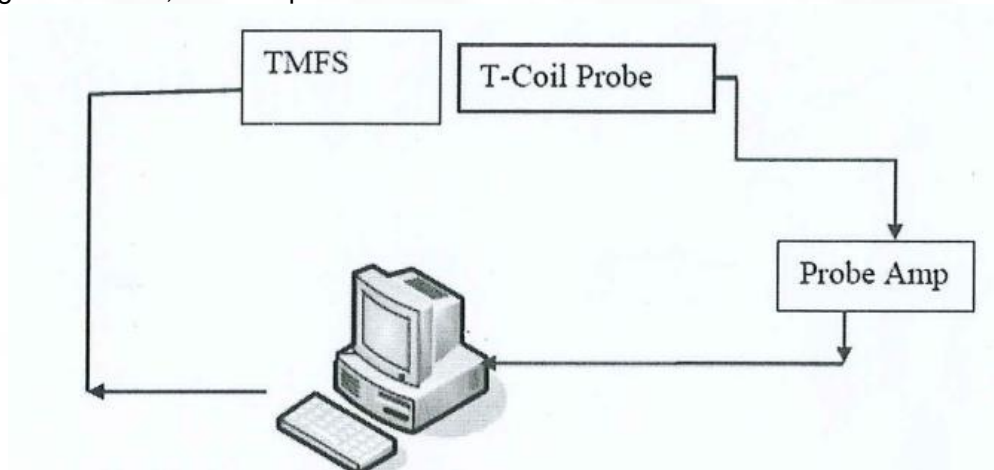
For correct and calibrated measurement of the voltages and ABM field, Denso will perform a calibration job as below.

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, 500mV. (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 are 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 1 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.

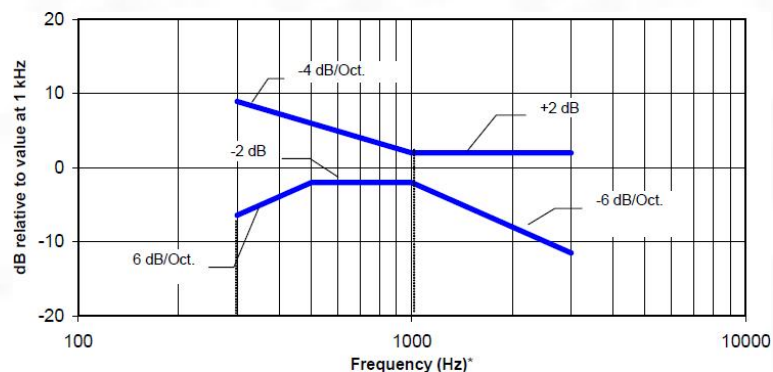
These levels are designed to be compatible with hearing aids that produce the same acoustic output level for either an acoustic input level of 65 dB SPL or a magnetic input level of 25 dB(A/m) (56.2 mA/m)³⁹ at either 1.0 kHz or 1.6 kHz. The hearing aid operational measurements are performed per ANSI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

2) Frequency response

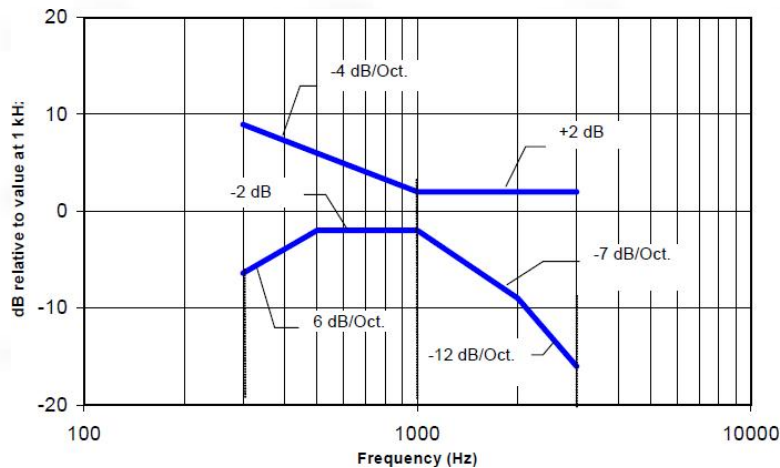
The frequency response of the axial component of the magnetic field, measured in 1/3 octave bands, shall follow the response curve specified in this sub-clause, over the frequency range 300 Hz to 3000 Hz.

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

3) 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.

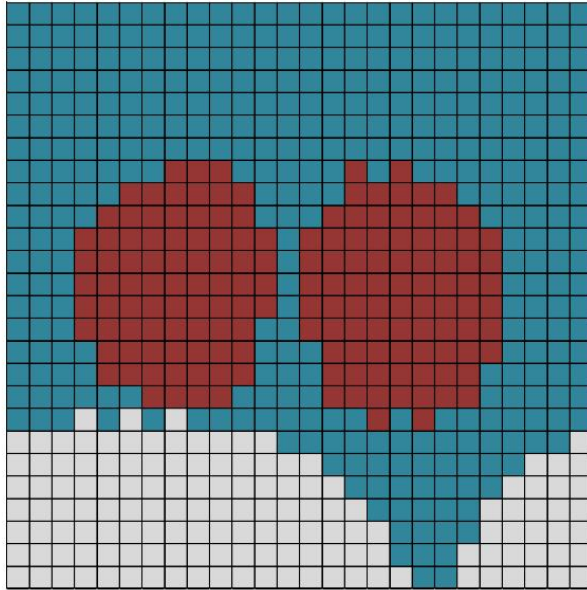
Figure 6.6 is an example of a qualifying scan. The total number of primary group qualifying measurement points is 161, which is ≥ 75 . The total number of secondary group qualifying points is 536, which is ≥ 300 .

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>

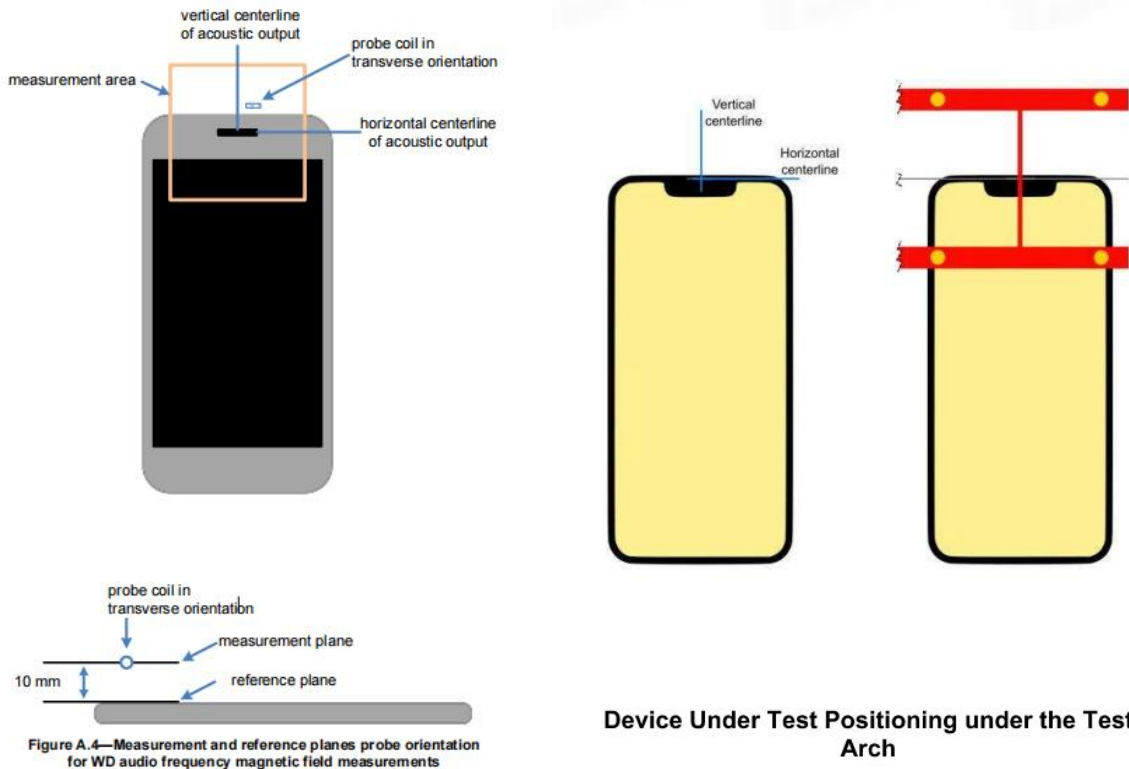
If the 2G GSM operating mode(s) are selected for qualification, the qualifying measurement points shall fulfill the requirements of 6.6.2; both the primary and secondary group requirements shall be met:

- ☐ 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 $M1 \geq -18$ dB(A/m) and undesired ABM field ≤ -38 dB(A/m)
Blue and red (secondary group): undesired ABM field ≤ -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:

- 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.
- The measurement plane is parallel to, and 10 mm in front of, the reference plane.
- 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.
- 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.
- Measurements of desired ABM signal strength and undesired ABM field are made at $2.0 \text{ mm} \pm 0.5 \text{ mm}$ 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.
- Desired ABM signal frequency response is measured at a single location at or near the maximum desired ABM signal strength location.
- 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 $2.0 \text{ mm} \pm 0.5 \text{ mm}$ 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.

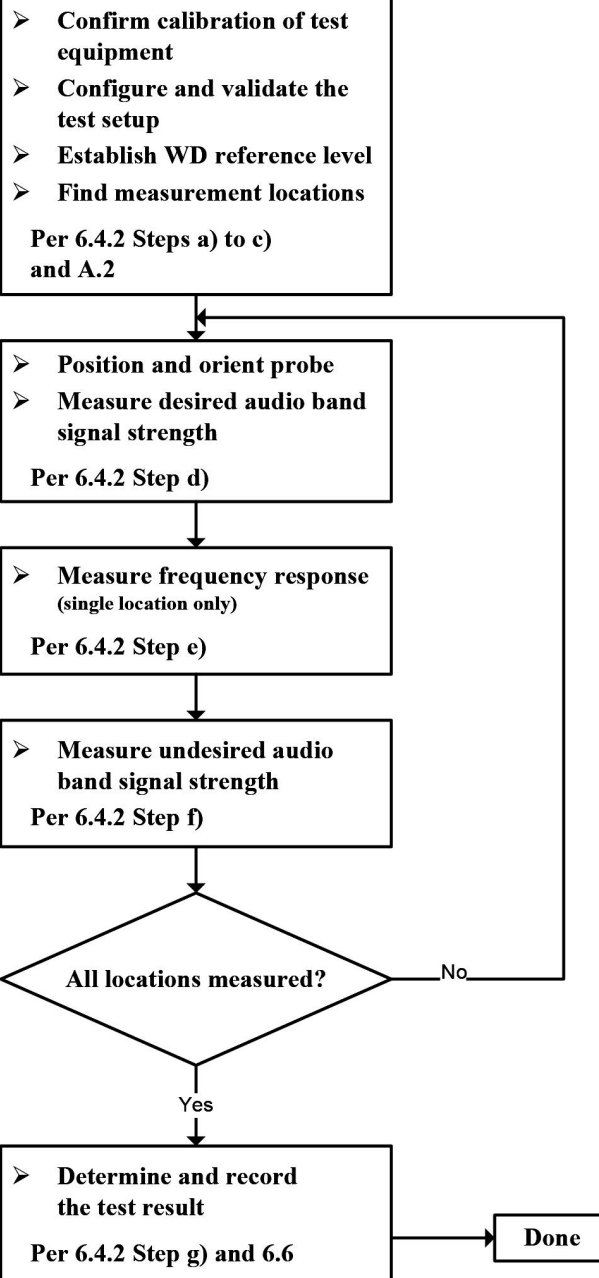
In addition to measuring the desired ABM signal levels, the weighted magnitude of the unintended signal shall also be determined. Weighting of the unintended and undesired ABM field shall be by the spectral and temporal weighting described in D.4 through D.6.

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



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.

7. Max. Conducted RF Output Power

2G

Mode: GSM850	Maximum Tune-up(dBm)	Burst Average Power (dBm)		
		CH128	CH190	CH251
		824.2MHz	836.6MHz	848.8MHz
GSM	32.50	32.30	32.31	32.28
Mode: GSM1900	Maximum Tune-up(dBm)	Burst Average Power (dBm)		
		CH512	CH661	CH810
		1850.2MHz	1880.0MHz	1909.8MHz
GSM	29.50	29.08	29.02	28.99

3G

Mode	Maximum Tune-up(dBm)	WCDMA Band II		
		Conducted Power (dBm)		
		CH9262	CH9400	CH9538
RMC 12.2K	22.00	21.83	21.84	21.79
Mode	Maximum Tune-up(dBm)	WCDMA Band IV		
		Conducted Power (dBm)		
		CH1312	CH1413	CH1513
RMC 12.2K	22.50	22.33	22.34	22.34
Mode	Maximum Tune-up(dBm)	WCDMA Band V		
		Conducted Power (dBm)		
		CH4132	CH4183	CH4233
RMC 12.2K	23.00	22.78	22.72	22.81

4G

Band 2

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18700	18900	19100
					1860.0MHz	1880.0MHz	1900.0MHz
20MHz	QPSK	1	0	28.50	27.96	28.05	28.12
			50	29.00	28.34	28.50	28.58
			99	28.50	28.05	28.17	28.17
		50	0	27.50	27.19	27.30	27.33
			25	27.50	27.23	27.33	27.39
			50	27.50	27.20	27.27	27.28
	16QAM	100	0	27.50	27.19	27.32	27.33
			0	27.50	27.41	27.19	27.30
			50	28.00	27.82	27.62	27.74
		50	99	27.50	27.49	27.27	27.34
			0	26.50	26.11	26.24	26.29
			25	26.50	26.16	26.26	26.36
		100	50	26.50	26.15	26.22	26.21
			0	26.50	26.15	26.25	26.28

Band 4

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20050	20175	20300
					1720.0MHz	1732.5MHz	1745.0MHz
20MHz	QPSK	1	0	28.00	27.91	27.93	27.87
			50	28.50	28.21	28.30	28.25
			99	28.00	27.87	27.93	27.91
		50	0	27.50	27.02	27.19	27.13
			25	27.50	27.16	27.16	27.14
			50	27.50	27.11	27.01	27.08
	16QAM	100	0	27.50	27.12	27.14	27.16
			0	27.50	27.44	27.06	27.10
			50	28.00	27.77	27.43	27.48
		50	99	27.50	27.38	27.08	27.15
			0	26.50	26.01	26.15	26.12
			25	26.50	26.10	26.11	26.08
		100	50	26.50	26.07	25.98	26.04
			0	26.50	26.07	26.09	26.13

Band 5

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20450	20525	20600
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	29.00	28.72	28.84	28.77
			25	29.00	28.94	28.87	28.39
			49	29.00	28.83	28.47	28.24
		25	0	28.00	27.80	27.65	27.43
			13	28.00	27.85	27.75	27.37
			25	28.00	27.83	27.50	27.30
	16QAM	50	0	28.00	27.85	27.58	27.36
			0	28.00	27.77	27.56	27.89
			25	28.50	27.98	27.88	28.01
		1	49	28.00	27.86	27.49	27.78
			0	27.00	26.90	26.65	26.53
			13	27.00	26.90	26.73	26.45
		25	25	27.00	26.89	26.70	26.35
			0	27.00	26.83	26.68	26.39

Band 12

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23060	23095	23130
					704.0MHz	707.5MHz	711.0MHz
10MHz	QPSK	1	0	29.00	28.99	28.99	28.51
			25	29.50	29.22	28.93	28.65
			49	29.50	29.11	28.59	28.57
		25	0	28.00	27.99	27.81	27.62
			13	28.50	28.09	27.62	27.66
			25	28.00	27.98	27.73	27.63
	16QAM	50	0	28.00	27.99	27.73	27.62
			0	28.50	27.92	27.68	28.11
			25	28.50	28.18	27.94	28.32
		1	49	28.50	27.78	27.76	28.10
			0	27.00	26.72	26.78	26.68
			13	27.50	27.05	26.64	26.70
		25	25	27.00	26.84	26.72	26.68
			0	27.00	26.91	26.76	26.63

Band 13

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23230
					782.0MHz
10MHz	QPSK	1	0	29.00	28.81
			25	29.50	29.00
			49	29.00	28.89
		25	0	28.00	27.79
			13	28.00	27.89
			25	28.00	27.87
		50	0	28.00	27.85
	16QAM	1	0	28.00	27.94
			25	28.50	28.04
			49	28.00	27.90
		25	0	27.00	26.92
			13	27.50	27.01
			25	27.50	27.01
		50	0	27.00	26.95

Band 25

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26140	26365	26590
					1860.0MHz	1882.5MHz	1905.0MHz
20MHz	QPSK	1	0	28.00	27.70	27.86	27.89
			50	28.50	28.17	28.25	28.26
			99	28.00	27.81	27.96	27.93
		50	0	27.50	26.92	27.17	27.08
			25	27.50	27.03	27.12	27.09
			50	27.50	27.03	27.09	26.88
		100	0	27.50	26.99	27.12	27.03
	16QAM	1	0	27.50	27.19	26.99	27.11
			50	28.00	27.63	27.37	27.46
			99	27.50	27.29	27.08	27.14
		50	0	26.50	25.84	26.11	26.05
			25	26.50	25.96	26.07	26.03
			50	26.50	25.96	26.03	25.80
		100	0	26.50	25.93	26.06	25.97

Band 41

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39750	40620	41490
					2506.0MHz	2593.0MHz	2680.0MHz
20MHz	QPSK	1	0	29.00	28.51	28.92	28.67
			50	29.50	28.95	29.34	28.88
			99	29.00	28.60	28.89	28.54
		50	0	28.50	27.69	28.24	27.89
			25	28.50	27.85	28.25	27.71
			50	28.50	27.84	28.10	27.65
		100	0	28.50	27.80	28.19	27.71
	16QAM	1	0	28.00	27.06	27.72	27.52
			50	28.50	27.44	28.44	28.27
			99	28.00	27.14	27.69	27.86
		50	0	27.50	26.70	27.18	26.82
			25	27.50	26.77	27.17	26.78
			50	27.50	26.77	27.01	26.74
		100	0	27.50	26.71	27.08	26.65

Band 66

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132072	132322	132572
					1720.0MHz	1745.0MHz	1770.0MHz
20MHz	QPSK	1	0	24.50	24.44	21.95	18.41
			50	24.50	24.09	21.09	18.26
			99	23.00	22.70	19.40	17.67
		50	0	23.50	23.27	20.68	17.25
			25	23.00	22.93	19.99	16.98
			50	22.50	22.46	19.26	16.78
	16QAM	100	0	23.00	22.86	20.08	17.05
			0	23.50	23.26	20.76	17.23
			50	23.00	22.87	20.01	17.01
		50	99	21.50	21.44	18.17	16.57
			0	22.50	22.24	19.61	16.10
			25	22.00	21.95	18.94	16.01
		100	50	21.50	21.44	18.20	15.78
			0	22.00	21.84	19.07	16.04

Band 71

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133222	133322	133372
					673.0MHz	683.0MHz	688.0MHz
20MHz	QPSK	1	0	29.00	28.79	28.21	28.20
			50	29.00	28.72	28.65	28.69
			99	28.50	28.33	28.32	28.32
		50	0	28.00	27.41	27.78	27.57
			25	28.00	27.52	27.63	27.59
			50	28.00	27.32	27.68	27.59
	16QAM	100	0	28.00	27.34	27.74	27.57
			0	28.00	27.53	27.78	27.43
			50	28.50	28.01	28.23	27.90
		50	99	28.00	27.64	27.90	27.54
			0	27.00	26.34	26.74	26.53
			25	27.00	26.49	26.62	26.57
		100	50	27.00	26.30	26.68	26.54
			0	27.00	26.35	26.71	26.56

2.4G

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)
2.4g Wifi (2.4~2.4835)	802.11b	1	2412	14.76	15.00
		6	2437	15.74	16.00
		11	2462	15.69	16.00
	802.11g	1	2412	14.64	15.00
		6	2437	15.61	16.00
		11	2462	15.63	16.00
	802.11n(HT20)	1	2412	14.53	15.00
		6	2437	15.61	16.00
		11	2462	15.54	16.00
	802.11n(HT40)	3	2422	15.40	15.50
		6	2437	15.69	16.00
		9	2452	15.88	16.00

5G

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)
U-NII-1 (5.150~5.250)	802.11a	36	5180	13.53	14.00
		40	5200	13.73	14.00
		48	5240	13.72	14.00
	802.11n(HT20)	36	5180	13.34	13.50
		40	5200	13.46	13.50
		48	5240	13.56	14.00
	802.11ac(VHT20)	36	5180	13.24	13.50
		40	5200	13.38	13.50
		48	5240	13.41	13.50
	802.11n(HT40)	38	5190	13.56	14.00
		46	5230	13.67	14.00
	802.11ac(VHT40)	38	5190	13.61	14.00
		46	5230	13.76	14.00
	802.11ac(VHT80)	42	5210	14.15	14.50

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)
U-NII-2a (5.250~5.350)	802.11a	52	5260	13.74	14.00
		60	5300	13.48	13.50
		64	5320	13.30	13.50
	802.11n(HT20)	52	5260	13.40	13.50
		60	5300	13.31	13.50
		64	5320	13.07	13.50
	802.11ac(VHT20)	52	5260	13.35	13.50
		60	5300	13.24	13.50
		64	5320	12.94	13.00
	802.11n(HT40)	54	5270	13.69	14.00
		62	5310	13.28	13.50
	802.11ac(VHT40)	54	5270	13.48	13.50
		62	5310	13.37	13.50
	802.11ac(VHT80)	58	5290	13.95	14.00

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)
U-NII-2c (5.470~5.725)	802.11a	100	5500	12.70	13.00
		116	5580	13.96	14.00
		140	5700	12.38	12.50
	802.11n(HT20)	100	5500	12.36	12.50
		116	5580	13.70	14.00
		140	5700	12.07	12.50
	802.11ac(VHT20)	100	5500	12.41	12.50
		116	5580	13.75	14.00
		140	5700	12.03	12.50
	802.11n(HT40)	102	5510	12.55	13.00
		110	5550	13.40	13.50
		134	5670	13.11	13.50
	802.11ac(VHT40)	102	5510	12.55	13.00
		110	5550	13.35	13.50
		134	5670	13.11	13.50
	802.11ac(VHT80)	106	5530	13.27	13.50
		122	5610	14.13	14.50

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)
U-NII-3 (5.725~5.850)	802.11a	149	5745	11.35	11.50
		157	5785	10.89	11.00
		165	5825	10.82	11.00
	802.11n(HT20)	149	5745	11.08	11.50
		157	5785	10.73	11.00
		165	5825	10.63	11.00
	802.11ac(VHT20)	149	5745	11.00	11.50
		157	5785	10.73	11.00
		165	5825	10.53	11.00
	802.11n(HT40)	151	5755	11.09	11.50
		159	5795	10.78	11.00
	802.11ac(VHT40)	151	5755	11.10	11.50
		159	5795	10.91	11.00
	802.11ac(VHT80)	155	5775	11.81	12.00

Bluetooth

EDR	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	39	78
			2402MHz	2441MHz	2480MHz
	GFSK	5.50	4.92	5.30	5.49
	$\pi/4$ QPSK	5.00	4.39	4.80	4.92
	8DPSK	5.00	4.42	4.79	4.90
BLE	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	20	39
			2402MHz	2440MHz	2480MHz
	1Mbps	5.50	5.15	5.40	5.34
	2Mbps	5.50	5.17	5.43	5.40

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	135	115	126	Transversal(Y)	GSM 850/190
Secondary Group Contiguous Point Count	252	239	246		
Frequency response	Pass	Pass	Pass		

Note: The bold data represents the worst case.

<WCDMA Evaluation Results>

Codec Investigation						
Codec	NB AMR	WB AMR	NB AMR	WB AMR	Orientation	Band/Channel
Bit rate	4.75 Kbps	6.60 Kbps	12.2 Kbps	23.85Kbps		
Primary Group Contiguous Point Count	236	229	227	195	Transversal(Y)	WCDMA Band II/9400
Secondary Group Contiguous Point Count	378	370	356	322		
Secondary Group Max Longitudinal	26	26	26	26		
Secondary Group Max Transverse	26	25	26	15		
Frequency response	Pass	Pass	Pass	Pass		
Note: The bold data represents the worst case.						

Note: The bold data represents the worst case.

<VoLTE Evaluation Results>

Codec Investigation										
Codec	AMR-NB	AMR-NB	AMR-WB	AMR-WB	EVS-NB	EVS-NB	EVS-WB	EVS-WB	Orientation (Y)	Band/ Channel
Bit rate	4.75 Kbps	12.2 Kbps	6.60 Kbps	23.85 Kbps	5.9 Kbps	24.4 Kbps	5.9 Kbps	24.4 Kbps		
Primary Group Contiguous Point Count	239	302	332	241	235	248	253	230		
Secondary Group Contiguous Point Count	396	387	405	415	419	427	405	337		
Secondary Group Max Longitudinal	26	26	26	26	26	26	26	26		
Secondary Group Max Transverse	26	25	25	24	23	25	23	15		
Frequency response	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass		
Note: The bold data represents the worst case.										

Note: The bold data represents the worst case.

Air Interface Investigation											
Plot No.	Mode	Channel/Freq.	BW	Probe Position	Modulation / Mode	Primary Group Contiguous Point Count	Secondary Group Contiguous Point Count	Secondary Group Max Longitudinal	Secondary Group Max Transverse	Ambient Noise (dB A/m)	Frequency Response
1	GSM850	190/836.6MHz	/	Transversal(Y)	Voice	115	239	/	/	-49.20	Pass
2	PCS1900	661/1880.0MHz	/	Transversal(Y)	Voice	129	260	/	/	-50.55	Pass
3	WCDMA Band II	9400/1880.0MHz	/	Transversal(Y)	Voice	195	322	26	15	-50.42	Pass
4	WCDMA Band IV	1413/1732.6MHz	/	Transversal(Y)	Voice	211	335	26	26	-48.18	Pass
5	WCDMA Band V	4183/836.6MHz	/	Transversal(Y)	Voice	247	340	26	25	-50.06	Pass
6	LTE FDD Band 2	18900/1880MHz	20MHz_QPSK_1_50	Transversal(Y)	Voice	246	345	26	26	-49.33	Pass
7	LTE FDD Band 4	20175/1732.5MHz	20MHz_QPSK_1_50	Transversal(Y)	Voice	263	361	26	26	-50.69	Pass
8	LTE FDD Band 5	20525/836.5MHz	10MHz_QPSK_1_25	Transversal(Y)	Voice	230	337	26	15	-50.50	Pass
9	LTE FDD Band 12	23095/707.5MHz	10MHz_QPSK_1_25	Transversal(Y)	Voice	274	367	26	26	-50.29	Pass
10	LTE FDD Band 13	23230/782MHz	10MHz_QPSK_1_25	Transversal(Y)	Voice	239	355	26	26	-49.51	Pass
11	LTE FDD Band 25	26365/1882.5MHz	20MHz_QPSK_1_50	Transversal(Y)	Voice	259	349	26	25	-50.16	Pass
12	LTE TDD Band 41	40620/2593MHz	20MHz_QPSK_1_50	Transversal(Y)	Voice	243	381	26	26	-48.22	Pass
13	LTE FDD Band 66	132322/1745MHz	20MHz_QPSK_1_0	Transversal(Y)	Voice	258	376	26	15	-50.61	Pass
14	LTE FDD Band 71	133322/683MHz	20MHz_QPSK_1_0	Transversal(Y)	Voice	274	359	26	22	-50.13	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 3. According to standard ANSI C63.19-2019, for the measurement of both desired ABM signal and undesired ABM field, the environmental noise level should be <-48 dB(A/m).											

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 TESTER	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	2025/05/28	2028/05/27
Antenna network emulator	MVG	ANTA 74	07/22 ANTA 74	/	/

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)
500	Axial	Max	-9.92	-10.79	-0.14	±0.85
	Radial H	Right	-16.56	-16.88	-0.16	±0.85
		Left	-16.42	-16.75	-0.26	±0.85
	Radial V	Upper	-16.41	-17.49	-0.92	±0.85
		Lower	-16.22	-18.04	-0.37	±0.85

System check at 0.00 MHz

Date of measurement: 2/10/2025

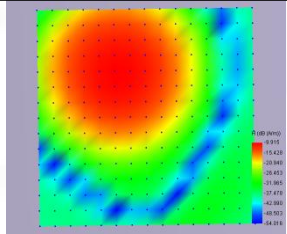
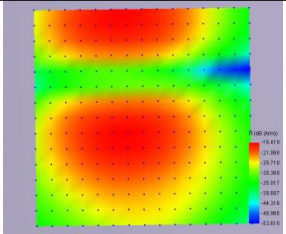
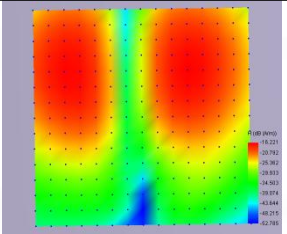
Experimental Conditions

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

Raw data result

	Axial	Radial H	Radial V
ABM1 first maximum dB(A/m)	-9.92	-16.56	-16.41
ABM1 second maximum dB(A/m)	-	-16.42	-16.22

Desired signal (ABM1) scans

	Axial	Radial H	Radial V
Image			
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: 2/10/2025

Experimental Conditions

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

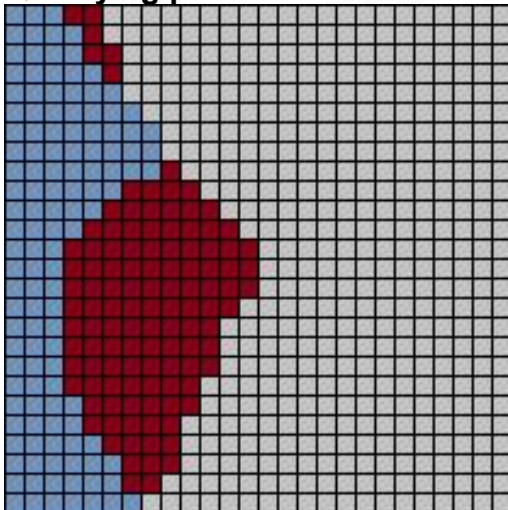
Results

Device compliant	Yes
Measurement status	Complete

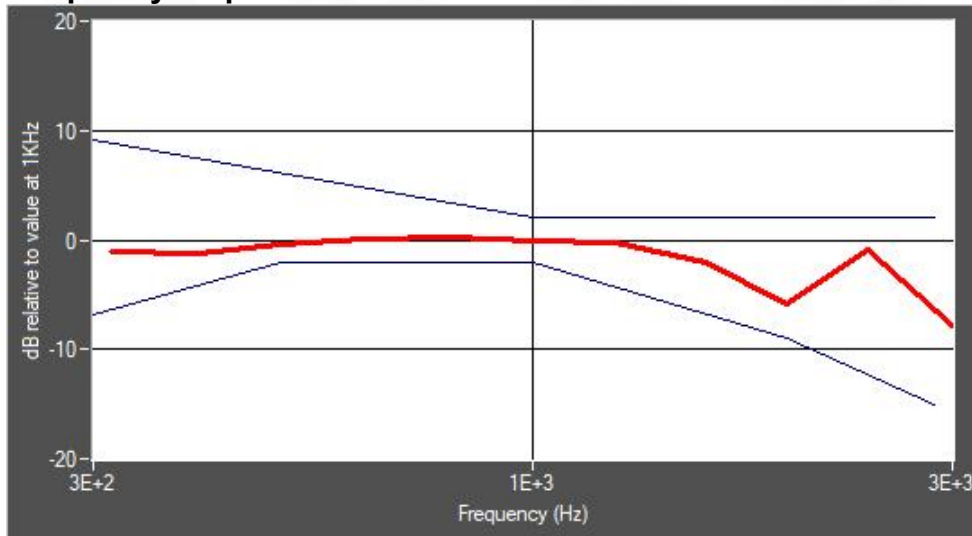
Requirement verification

C63.19	Test description	Minimum limit	Measured	Verdict
6.6.4.2	Primary group size	25	115	Pass
6.6.4.2	Secondary group size	125	239	Pass
6.6.3	Frequency response inside boundaries	-	-	Pass

Qualifying points



Frequency response



Measurement at Band 2 (1900)

Date of measurement: 4/10/2025

Experimental Conditions

Probe	SN_0717_TCP38
Signal	W-CDMA
Band	Band 2 (1900)
Channels	middle
Channels Number	9400
Frequency (MHz)	1880.00

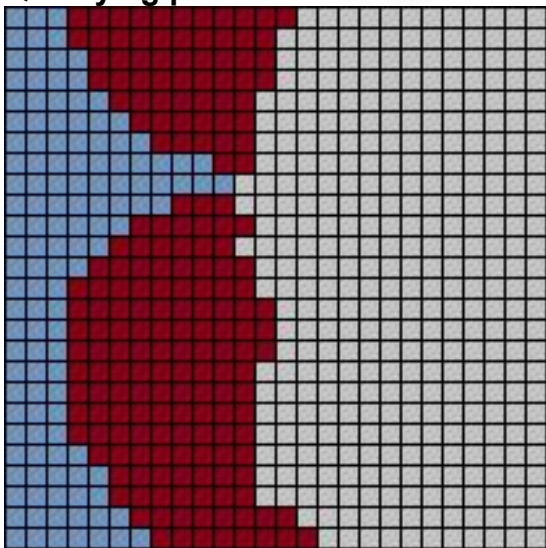
Results

Device compliant	Yes
Measurement status	Complete

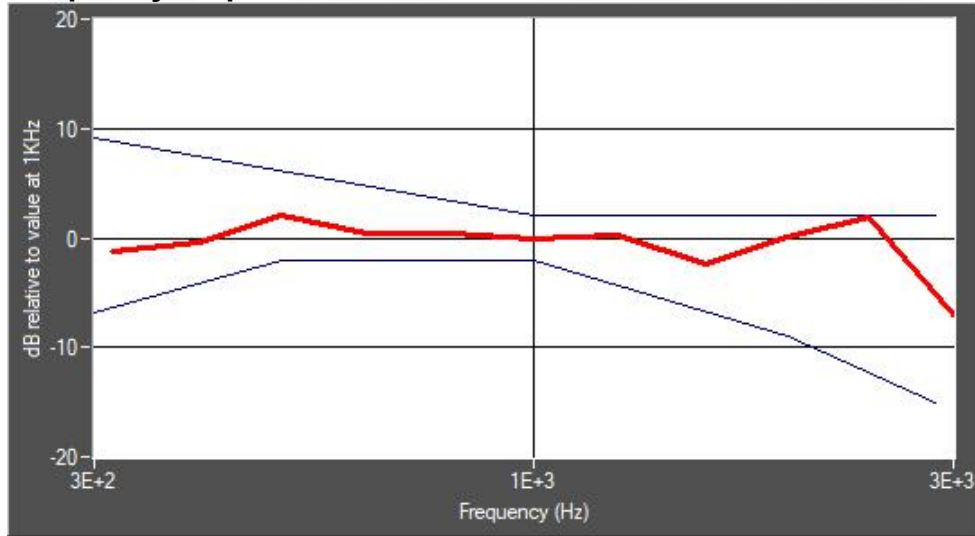
Requirement verification

C63.19	Test description	Minimum limit	Measured	Verdict
6.6.4.2	Primary group size	75	195	Pass
6.6.4.2	Secondary group size	300	322	Pass
6.6.4.2	Biggest column	10	26	Pass
6.6.4.2	Biggest row	15	15	Pass
6.6.3	Frequency response inside boundaries	-	-	Pass

Qualifying points



Frequency response



Measurement at LTE band 5

Date of measurement: 5/10/2025

Experimental Conditions

Probe	SN_0717_TCP38
Signal	LTE FDD
Band	LTE band 5
Channels	middle
Channels Number	20525
Frequency (MHz)	836.50

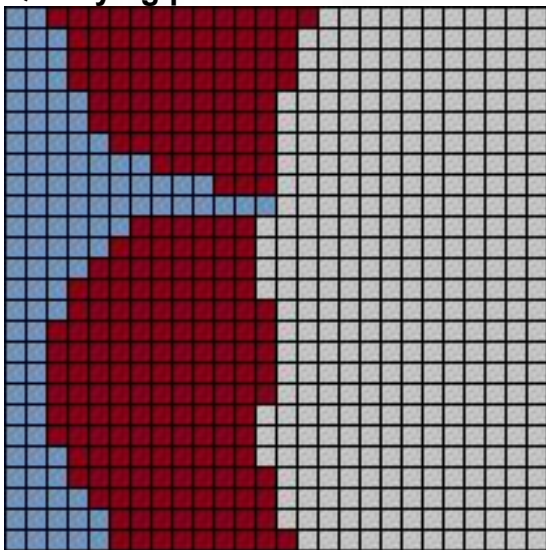
Results

Device compliant	Yes
Measurement status	Complete

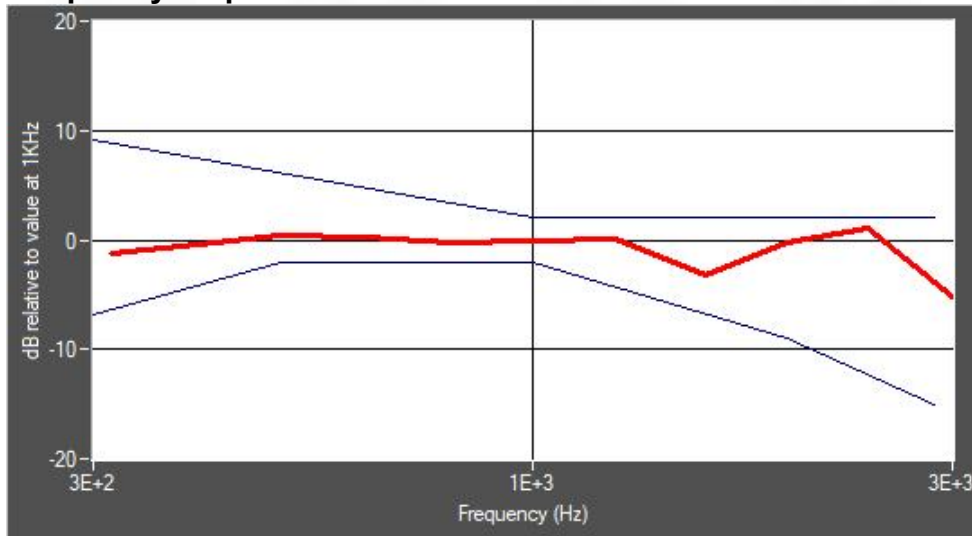
Requirement verification

C63.19	Test description	Minimum limit	Measured	Verdict
6.6.4.2	Primary group size	75	230	Pass
6.6.4.2	Secondary group size	300	337	Pass
6.6.4.2	Biggest column	10	26	Pass
6.6.4.2	Biggest row	15	15	Pass
6.6.3	Frequency response inside boundaries	-	-	Pass

Qualifying points



Frequency response



ANNEX C Test Setup Photo

Please refer to the document “ANNEX C Test Setup Photo_TCOIL.pdf”.

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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--END OF REPORT--