



Hearing Aid Compatibility (HAC) Volume Control Test Report

APPLICANT : Rhino Mobility LLC
PRODUCT NAME : Smartphone
MODEL NAME : C65
BRAND NAME : RHINO
FCC ID : 2AUOUC65
STANDARD(S) : FCC 47 CFR Part 20 (20.19)
ANSI C63.19-2019
ANSI/TIA-5050-2018
RECEIPT DATE : 2026-03-31
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DIRECTORY

1. Statement of Volume Control	4
2. Technical Information	5
2.1. Applicant and Manufacturer Information	5
2.2. Equipment under Test (EUT) Description	5
2.3. Applied Reference Documents	7
3. Air Interface and Operating Mode	8
4. Volume Control Test Requirements and Restrictions	10
4.1. Conversational Gain Performance	10
4.2. Receive Distortion and Noise Performance	10
4.3. Receive Acoustic Frequency Response Performance	11
5. Volume Control Measurement System	13
6. Volume Control Measurement Procedure	14
7. Test Equipment List	15
8. Supported Codec Summary	16
9. Test Results Summary	18
9.1. General Guidance	18
9.2. Test Results	20
10. Uncertainty Assessment	27
Annex A General Information	29
Annex B Test Setup Photos	30
Annex C Test Results of Distortion and Noise	30
Annex D Test Plots of Volume Control	30
Notes	31



REPORT No.: SZ25100415S04

Change History		
Version	Date	Reason for change
1.0	2026-05-22	First edition

Note: The latest revision of the report supersedes all previous version.



1. Statement of Volume Control

The lowest conversational gain found during test as bellows:

Mounting Force	Lowest Conversational Gain (dB)
2N	7.46
8N	12.03

Note:

1. This device is in compliance with compliance with HAC requirement specified in FCC 47 CFR Part 20.19 and ANSI C63.19-2019 and tested in accordance with the measurement methods and procedures specified in ANSI/TIA-5050-2018 and FCC KDB publications.
2. The 2N force is used for testing requirements related to use by persons with hearing devices and the 8N force is used for testing requirements related to use by persons without hearing devices.
3. This device was tested that under the maximum power or the power of the device used next to the ear.
4. The declarations of EUT presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information.



2. Technical Information

Note: Provide by applicant.

2.1. Applicant and Manufacturer Information

Applicant:	Rhino Mobility LLC
Applicant Address:	8 The Green, Suite A, Dover, Delaware, 19901, USA
Manufacturer:	Rhino Mobility LLC
Manufacturer Address:	8 The Green, Suite A, Dover, Delaware, 19901, USA

2.2. Equipment under Test (EUT) Description

Product Name:	Smartphone
EUT NO.:	7#
Hardware Version:	Q6011_MB_V1.0
Software Version:	C65(001)_20260326_16
Frequency Bands:	WCDMA II: 1850 MHz ~ 1910 MHz WCDMA IV: 1710 MHz ~ 1755 MHz WCDMA V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 18: 815 MHz ~ 830 MHz LTE Band 19: 830 MHz ~ 845 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 29 (RX): 717 MHz ~ 728 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2: 1850 MHz ~ 1910 MHz



	5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n25: 1850 MHz ~ 1915 MHz 5G NR n26: 814 MHz ~ 849 MHz 5G NR n29 (RX): 717 MHz ~ 728 MHz 5G NR n30: 2305 MHz ~ 2315 MHz 5G NR n41: 2496 MHz ~ 2690 MHz 5G NR n48: 3550 MHz ~ 3700 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71: 663 MHz ~ 698 MHz 5G NR n77: 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3800 MHz WLAN 2.4GHz: 2412 MHz ~ 2462 MHz WLAN 5.2GHz: 5180 MHz ~ 5240 MHz WLAN 5.8GHz: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz
Modulation Mode:	WCDMA: QPSK, 16QAM LTE: QPSK, 16QAM, 64QAM 5G NR: DFT-s-OFDM/CP-OFDM, PI/2 BPSK QPSK, 16QAM, 64QAM, 256QAM 802.11b: DSSS 802.11a/g: OFDM 802.11n-HT20/HT40: OFDM 802.11ac-VHT20/40/80: OFDM BR+EDR: GFSK (1Mbps), $\pi/4$ -DQPSK (2Mbps), 8-DPSK (3Mbps) BLE: GFSK (1Mbps, 2Mbps) NFC: ASK
VoLTE Mode:	Support
VoNR Mode:	Support
VoWi-Fi Mode:	Not Support
VoIP Mode:	Support
Carrier Aggregation:	CA Uplink & Downlink
Hotspot Mode:	Support (WLAN 5G for B1 & B4)
Antenna type:	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna NFC: Loop Antenna
SIM Cards Description:	WCDMA+LTE+5G NR

Note: For more detailed description, please refer to specification or user manual supplied by the applicant and/or manufacturer.



2.3. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title	Remark
1	FCC 47 CFR Part 20 (20.19)	Hearing aid-compatible mobile handsets	/
2	ANSI C63.19-2019	American National Standard Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids	/
3	ANSI/TIA-5050-2018	Telecommunications Communications Products Receive Volume Control Requirements for Wireless (Mobile) Devices	/
4	KDB 285076 D01v06r04	HAC Guidance	/
5	KDB 285076 D03v01r06	HAC FAQ	/
6	KDB 285076 D04v02	Volume Control	/
7	KDB 285076 D05v01	HAC Waiver DA 23-914	/
Note: Any additions, deviation, or exclusions from the method shall be noted in the "Remark".			

3. Air Interface and Operating Mode

Air Interface	Band	Transport Type	ANSI C63.19 Tested	Simultaneous Transmitter	Name of Voice Service	Power State for HAC Compliance
WCDMA (UMTS)	Band II	VO	Yes	WLAN, BT	CMRS Voice	Full
	Band IV					Full
	Band V					Full
	HSPA	VD	Yes	WLAN, BT	Google Meet	Full
FDD-LTE & TDD-LTE	Band 2	VD	Yes	WLAN, BT	VoLTE & Google Meet	Full
	Band 4					Full
	Band 5					Full
	Band 7					Full
	Band 12					Full
	Band 13					Full
	Band 14					Full
	Band 17					Full
	Band 18					Full
	Band 19					Full
	Band 25					Full
	Band 26					Full
	Band 30					Full
	Band 38					Full
	Band 41					Full
	Band 48					Full
	Band 66					Full
	Band 71					Full
5G NR	n2	VD	Yes	WLAN, BT	VoLTE & Google Meet	Full
	n5					Full
	n7					Full
	n25					Full
	n26					Full
	n30					Full
	n41					Full
	n48					Full
	n66					Full
	n71					Full
	n77					Full



	n78					Full
WiFi	2450	DT	No	UMTS, LTE, 5G NR	Google Meet	Full
	5200 (U-NII-1)					Full
	5800 (U-NII-3)					Full
BT	2450	DT	No	UMTS, LTE, 5G NR	N/A	N/A

Note:

- 1) Air Interface/Band MHz: List of all air interfaces and bands supported by the handset.
- 2) Type: For each air interface, indicate the type of voice transport mode:
 - i. VO = legacy Cellular Voice Service, from ANSI C63.19-2019;
 - ii. DT = Digital Transport only (no voice) (e.g., Bluetooth), not subject to C63.19 HAC testing.
 - iii. VD = IP Voice Service over Digital Transport.
- 3) Simultaneous Transmitter: Indicate any air interface/bands that operate in simultaneous or concurrent service transmission mode.
- 4) Name of Voice Service: See Q4 in KDB 285076 D03 HAC FAQ for further clarification.
- 5) Set device to highest transmit power in a held to the ear mode.



4. Volume Control Test Requirements and Restrictions

4.1. Conversational Gain Performance

1. According to KDB 285076D05, for the 2N mounting force test, one narrowband and one wideband voice codec embedded with the handset must pass with at least one volume control setting with a Conversational gain of ≥ 6 dB for all voice services, bands of operation and air interfaces over which it operates using one codec bit rate of the applicant's choosing.
2. According to KDB 285076D05, for the 8N mounting force test, one narrowband and one wideband voice codec embedded with the handset must pass with at least one volume control setting with a Conversational gain of ≥ 6 dB for all voice services, bands of operation and air interfaces over which they operate but is not required to meet or exceed the full 18 dB of Conversational gain specified in section 5.1.1 of the TIA 5050 Volume Control Standard using one codec bit rate of the applicant's choosing.
3. Calculate the Conversational Gain by subtracting 70 dB from the measured dB SPL. That is Monoaural Conversational Gain = (Measured dB SPL Level - 70 dB SPL) dB.

4.2. Receive Distortion and Noise Performance

With a mounting force of 8N and 2N, the ratio of the stimulus signal power to the 100 Hz to 8000 Hz total A-weighted distortion and noise power shall be ≥ 20 dB when tested over the range of 1/3 octave band center frequencies:

1. Narrowband transmission mode: Each 1/3 octave band center frequency from 400 Hz to 3150 Hz.
2. Wideband transmission mode: Each 1/3 octave band center frequency from 250 Hz to 5000 Hz.
3. According to KDB 285076 D05, choosing one narrowband and one wideband for all voice services, bands of operation and air interfaces over which it operates using one codec bit rate of the applicant's choosing to meet Receive Distortion and Noise requirement.

4.3. Receive Acoustic Frequency Response Performance

The receive acoustic frequency response is required to be met when tested with a handset mounting force of 2N and 8N. For a hearing device, a 2N force is used to simulate usage of the handset by a person with a hearing device in the microphone (acoustic) mode.

The receive frequency response is the ratio of the output sound pressure at the listener reference point (LRP) (FF or DF) to the voltage input to the reference codec, or digital bit stream equivalent, as shown in Eq 1 for each frequency or frequency band (f_i):

$$S_{JE} = 20 \log_{10}(P_E/V_R) \text{ dB re 1 Pa/V} \quad \text{Eq 1}$$

Where

S_{JE} = Receive Sensitivity, Junction to Ear, at f_i .

P_E = LRP sound pressure measured by ear simulator at DRP and translated to the FF or DF (see Annex B), at f_i .

V_R = RMS input voltage to the reference codec, or digital bit stream equivalent, at f_i .

For the volume control settings determined in section 5.1.1 of ANSI/TIA-5050 with a mounting force of 8N and 2N, the receive frequency response shall be measured at the DRP in 1/12 octave bands. After translation to the FF or DF, it shall fall between the applicable upper and lower limits.

The exact limit values at any 1/12 octave band center frequency falling between two consecutive points specified in the table may be calculated using the formula given in Eq 2 below:

$$X_f = X_1 + (X_2 - X_1) * \left(\frac{\log_{10} f - \log_{10} f_1}{\log_{10} f_2 - \log_{10} f_1} \right) \quad \text{Eq 2}$$

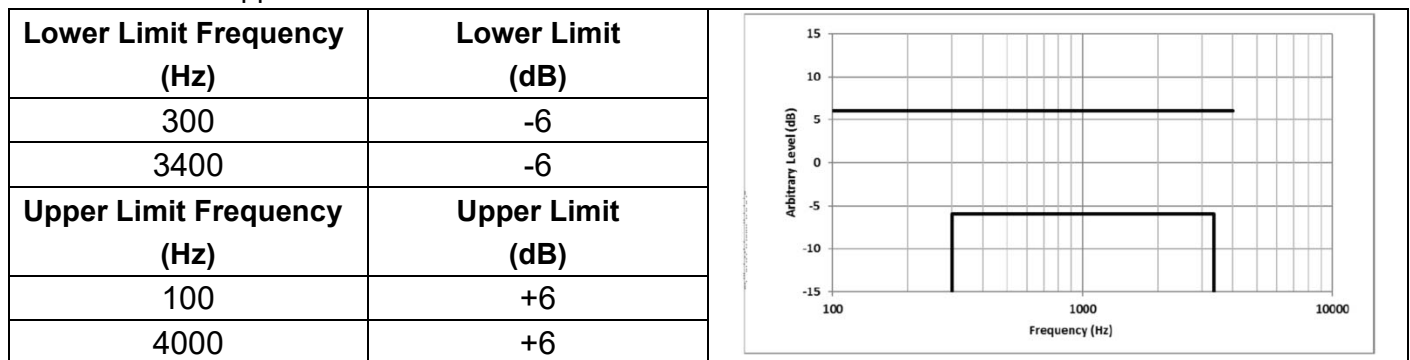
Where

X_f = limit value at frequency f

X_1 = limit value at frequency f_1 as given in table

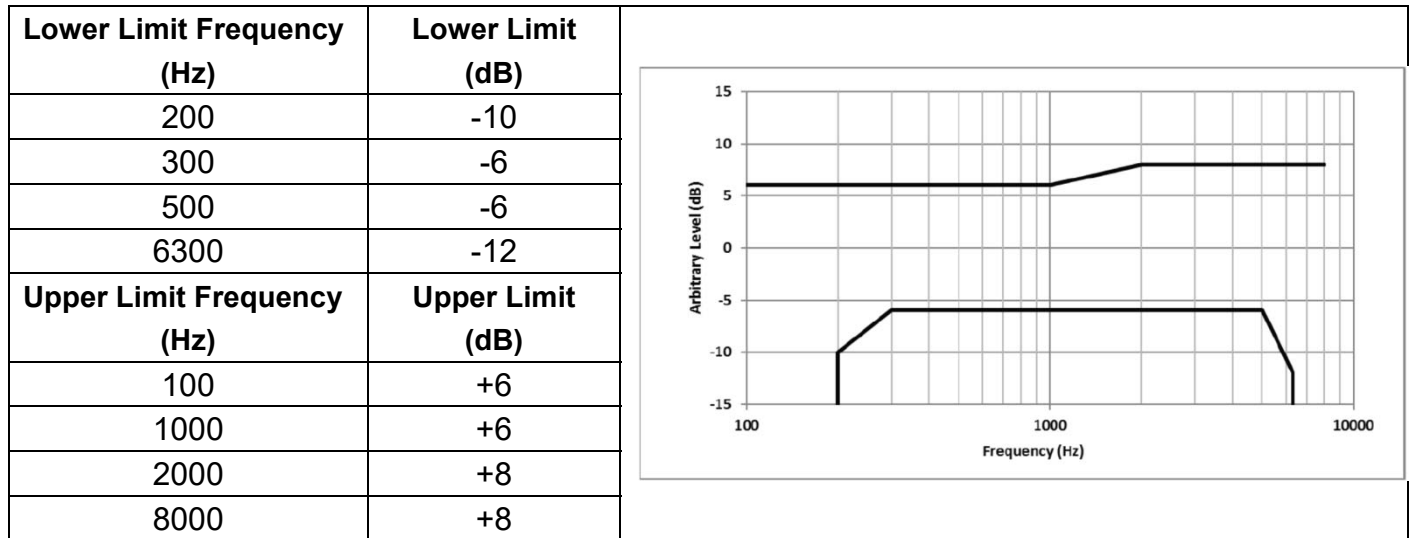
X_2 = limit value at frequency f_2 as given in table

1. Narrowband: The 1/12 octave band frequency response after translation to the FF or DF shall fall between the upper and lower limits below.





2. Wideband: The 1/12 octave band frequency response after translation to the FF or DF shall fall between the upper and lower limits below.



5. Volume Control Measurement System

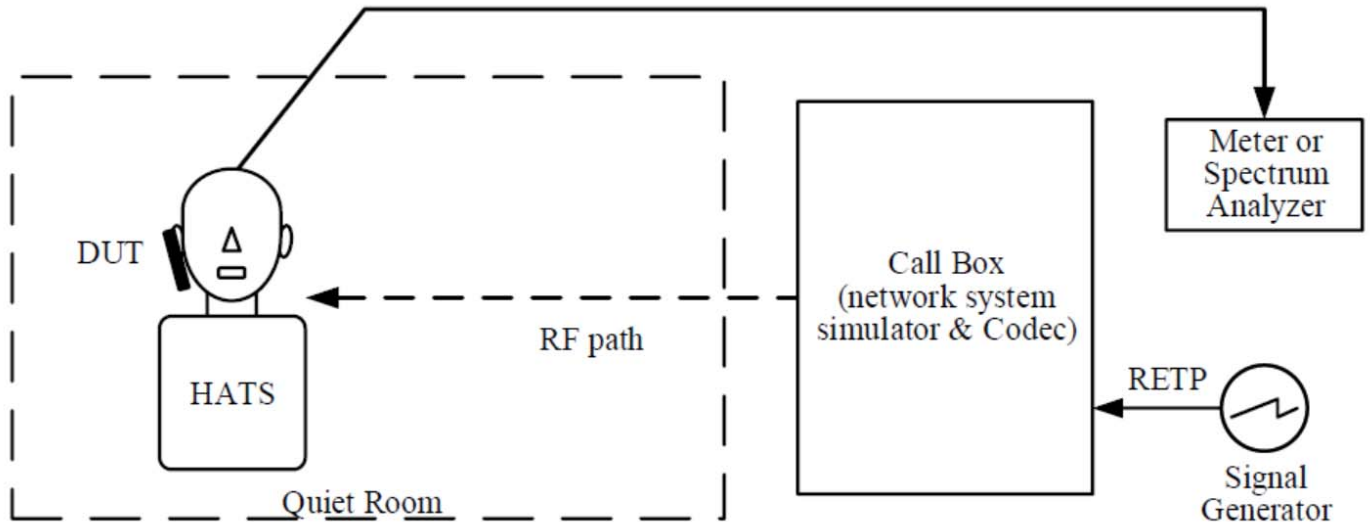


Fig 5.1 Volume Control System Configurations

Note:

1. A room with background noise no greater than 40 dBA.
2. The Call Box passes the voice channel stream to the DUT without modification. There is no gain or loss in the voice channel stream due to the Call Box interface.
3. The RETP (receive electrical test point) is the point in the device test arrangement where signals are applied to the DUT in the receive direction.
4. Per C63 & KDB 285076 D02v04, define all of the applicable input audio level:
 - 1) GSM input level: -20 dBm0
 - 2) UMTS input level: -20 dBm0
 - 3) VoLTE input level: -20 dBm0
 - 4) VoWiFi input level: -20 dBm0
 - 5) OTT VoIP input level: -20 dBm0
5. The callbox of CMW500 is used to GSM, UMTS, 1xRTT of CDMA200, VoLTE over IMS and Vo-WiFi over IMS Volume Control measurement, the data application unit of the CMW500 was used to simulate the IP multimedia subsystem server. And the CMW500 can be manually configured to ensure and control the speech input level result is -20dBm0 for VoLTE and VoWiFi when the device during the IMS connection.

6. Volume Control Measurement Procedure

<Conversational Gain Performance>

1. Configure the DUT with a mounting force of 8N and test equipment as shown in Figure 1 in an active call state with the applicable codec for the transmission mode under test.
2. Set the DUT volume control to the maximum setting.
3. If the DUT has an adjustable tone control feature, a tone control setting that meets the frequency response requirements in ANSI/TIA-5050 section 5.3.1 shall be used.
4. Apply the real speech test signal at a level of -20 dBm0 at the RETP and measure the acoustic output at the Drum Reference Point (DRP) over one complete sequence of the test signal.
5. Translate the measurement made at the DRP to the Free Field (FF) using the translation data in Annex B of ANSI/TIA-5050.
6. Over the applicable frequency band, determine the ASL in dB SPL for the resulting sound pressure level in accordance with Method B of ITU-T Recommendation P.56:
 - a. Narrowband 100 Hz through 4000 Hz.
 - b. Wideband 100 Hz through 7720 Hz.
7. Calculate the Conversational Gain by subtracting 70 dB from the measured dB SPL.
[Conversational Gain = (Measured dB SPL Level - 70 dB SPL) dB]
8. Measure the output distortion per clause 5.2. If a distortion failure occurs at the maximum volume control setting, reduce the volume control setting and repeat the measurement to determine if a setting can be found for which the conversational gain requirement is met without a distortion failure.
9. Repeat steps 2-8 with a mounting force of 2N.

<Receive Distortion and Noise Performance>

1. Configure the DUT with a mounting force of 8N and test equipment as shown in Figure 1 in an active call state with the applicable codec for the transmission mode under test with the volume control at the setting determined in 5.1.1 of ANSI/TIA-5050.
2. Receive distortion and noise is measured using the PN-SDNR procedure as described in Annex A of ANSI/TIA-5050.
3. To ensure DUT activation, apply the real speech test signal at a level of -20 dBm0 followed immediately by the initial 1/3 octave center frequency PN test signal in Table A.1 of ANSI/TIA-5050 based on the narrowband or wideband operating mode. Measure the acoustic output at the DRP over the complete sequence of the PN test signal.
4. Translate the measurement made at the DRP to the FF using the translation data in Annex B of ANSI/TIA-5050.
5. Calculate the acoustic output unweighted total signal power of the stimulus measurement band as described in A.2 of ANSI/TIA-5050.
6. Calculate the notched A-weighting distortion and noise components as described in A.3 of ANSI/TIA-5050.



7. Calculate the ratio of the signal power to the total A-weighted distortion and noise power using Eq A-1 of ANSI/TIA-5050.
8. Repeat for each of the remaining 1/3 octave center frequencies in Table A.1 of ANSI/TIA-5050 based on the narrowband or wideband operating mode.
9. Repeat steps 2-8 with a mounting force of 2N.

<Receive Acoustic Frequency Response Performance>

1. Configure the DUT with a mounting force of 8N and test equipment as shown in Figure 1 in an active call state with the applicable codec for the transmission mode under test with the volume control at the setting determined in 5.1.1 of ANSI/TIA-5050.
2. If the DUT has an adjustable tone control feature the initial measurement is to be performed with the default tone control setting.
3. Apply the real speech test signal with a level of -20 dBm0 at the RETP.
4. Capture the frequency spectrum at the DRP of the HATS using real-time analysis with 1/12 octave bands over the frequency range from 100 Hz to 4000 Hz for narrowband measurements, or over the frequency range from 100 Hz to 8000 Hz for wideband measurements, averaged over the entire duration of the test signal.
5. Transform the DRP frequency spectrum measurement to the FF or DF (see Annex B of ANSI/TIA-5050).
6. Divide the 1/12 octave measurement data by the 1/12 octave frequency spectrum of the test signal at the RETP and present the measurement in terms of dB (Pa/V).
7. Apply the applicable frequency response limits to determine compliance.
8. If the default tone control setting does not meet the requirement, repeat the above steps for other tone control settings to determine a tone control setting that meets the requirements.
9. Repeat with a mounting force of 2N

7. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial No./ SW Version	Calibration	
				Last Cal.	Due Date
NTi AUDIO	Audio Analyzer	FLexus FX100	11762	2025.05.16	2026.05.15
NTi AUDIO	Audio Holder	N/A	1094	NCR	NCR
B & K	HATS	4128-C-001	2277966	2025.05.19	2026.05.18
ETS	Anechoic Chamber	N/A	HC-54892	2023.06.21	2026.06.20
R&S	Base Station	CMW500	165755	2025.12.23	2026.12.22
KEYSIGHT	UXM 5G Base Station	E7515B	MY58300665	2025.09.02	2026.09.01

8. Supported Codec Summary

<General Guidance>

1. According to KDB 285076 D04, it's not required that every combination of codec, codec data rate, air interface, band, band channel, bandwidth, modulation data rate, subcarrier spacings, and resource blocks to be documented in a test report. However, it is expected to investigate and document only the worst-case test conditions and results. Each submitted test report shall document the codec type (i.e., NB, WB, EVS, etc.), every air interface (i.e., LTE, 5G NR, WI-FI), and band supported for the worst-case codec bit rate, band channel, bandwidth, air interface bit rate, subcarrier spacings, and resource blocks.
2. According to KDB 285076 D05 only CMRS narrowband and CMRS wideband voice codecs are required to comply with the volume control requirements of the ANSI/TIA 5050 Volume Control Standard. Other codecs out of 3GPP such as full-band and super-wideband codec or OTT VoIP codecs should be documented in the test report but not required to comply with the requirements of ANSI/TIA 5050, therefore 5G NR for the Google Meet is not required.

<Codec Summary>

Wireless Mode	Codec/Bitrates (kbps)					
	AMR NB	AMR WB	EVS SWB	EVS WB	EVS NB	EVS FWB
WCDMA	4.75	6.60				
	5.15	8.85				
	5.90	12.65				
	6.60	14.25				
	7.40	15.85				
	7.95	18.25				
	10.20	19.85				
	12.20	23.05				
		23.85				
VoLTE	4.75	6.60		5.9	5.9	
	5.15	8.85		7.2	7.2	
	5.90	12.65		8.0	8.0	
	6.60	14.25		9.6	9.6	
	7.40	15.85		13.2	13.2	
	7.95	18.25		16.4	16.4	
	10.20	19.85		24.4	24.4	
	12.20	23.05		32		
		23.85		48		
				64		



REPORT No.: SZ25100415S04

				96		
				128		
5G NR	4.75	6.60		5.9	5.9	
	5.15	8.85		7.2	7.2	
	5.90	12.65		8.0	8.0	
	6.60	14.25		9.6	9.6	
	7.40	15.85		13.2	13.2	
	7.95	18.25		16.4	16.4	
	10.20	19.85		24.4	24.4	
	12.20	23.05		32		
		23.85		48		
				64		
				96		
				128		

Wireless Mode	Google Meet Codec/Bitrates (kbps)
OTT VoIP	OPUS
	6
	40
	75

9. Test Results Summary

9.1. General Guidance

1. The middle channel of each frequency band is used to Volume Control.
2. All of test configurations were tested under the maximum volume.
3. According to KDB 285076 D05, the technical testing requirements for the conversational gain, distortion, and frequency response tests that amends KDB 285076 D04 Volume Control under the conditions of the limited-term waiver DA 23-914, that
 - a. Under the waiver, only CMRS narrowband and CMRS wideband voice codecs are required to comply with the volume control requirements of the ANSI/TIA-5050 Volume Control Standard:
 - 1) For the 2N mounting force test, one narrowband and one wideband voice codec embedded with the handset must pass with at least one volume control setting with a conversational gain of ≥ 6 dB for all voice services, bands of operation and air interfaces over which it operates using one codec bit rate of the applicant's choosing.
 - 2) For the 8N mounting force test, one narrowband and one wideband voice codec embedded with the handset must pass with at least one volume control setting with a conversational gain of ≥ 6 dB for all voice services, bands of operation and air interfaces over which they operate but is not required to meet or exceed the full 18 dB of conversational gain specified in section 5.1.1 of the ANSI/TIA-5050 Volume Control Standard using one codec bit rate of the applicant's choosing.
 - b. For all other narrowband and wideband codecs not evaluated in 2.a. above, ANSI/TIA-5050 Receive Distortion and Noise Performance and Receive Acoustic Frequency Response Performance evaluations are not required; however, these codecs shall be assessed for conversational gain and documented in the test report at the 2N and 8N levels with a gain of ≥ 6 dB for all voice services, bands of operation and air interfaces over which they operate. The handset volume setting used to comply with 2.a. shall be used for these other CMRS codec evaluations.
 - c. Any other codec for voice services embedded in the handset, not identified in 2.a. and 2.b. above, is not required to comply or demonstrate in the test reports for conversational gain.
4. The worst ratio configuration (i.e., codec data rate, air interface, band, band channel, bandwidth, modulation data rate, subcarrier spacings, and resource blocks) through internal radio configuration investigation was documented as below.
5. The product is tested in the room with an ambient noise of less than 40 dBA.
6. The distortion and noise test results data are referred to annex C.
7. According to KDB 285076 D05, any other codec for voice services embedded in the handset, not identified in 2.a. and 2.b. above, (eg: Google Meet, Apple Facetime and non-3GPP VoIP codecs) is not required to comply or demonstrate in the test reports for conversational gain. Waiver DA 23-914 only requires conversational gain compliance for CMRS narrowband and CMRS wideband voice codecs as stated above. All other codecs either part of 3GPP set such as full-band and super-wideband codecs or OTT codecs are to be documented in the test report but not required to comply with the TIA 5050



Volume Control Standard. Therefore, Google Meet does not test content related to Volume Control in this report.

8. Per C63.19 & KDB 285076 D02, define the all of the applicable input audio level in the base station simulator of CMW 500 and E7515B during the IMS connection:

Protocol	Transport Type	ANSI C63.19 Tested	Name of Voice Service	Input Level (dBm0)
WCDMA	VO	Yes	CMRS Voice	-20
VoLTE	VD	Yes	VoLTE	-20
VoNR	VD	Yes	VoNR	-20



9.2. Test Results

➤ Test Results for KDB 285076 D05 2.a

Volume Control Performance					Conversational Gain Performance		Distortion and Noise Performance	Frequency Response Performance
Air Interface	Radio Configuration	Channel	Mounting Force	Codec Rates (Kbps)	Speech Level (dB SPL)	Conv. Gain (dB)	Minimum PN-SDNR (dB)	Free Field (FF)
WCDMA II	AMR	9400	2N	AMR-NB 12.2	80.01	10.01	20.45	PASS
WCDMA II	AMR	9400	2N	AMR-WB 23.85	79.30	9.3	20.87	PASS
WCDMA II	AMR	9400	8N	AMR-NB 12.2	83.27	13.27	22.21	PASS
WCDMA II	AMR	9400	8N	AMR-WB 23.85	83.47	13.47	22.86	PASS
WCDMA IV	AMR	1413	2N	AMR-NB 12.2	79.04	9.04	20.34	PASS
WCDMA IV	AMR	1413	2N	AMR-WB 23.85	80.82	10.82	20.96	PASS
WCDMA IV	AMR	1413	8N	AMR-NB 12.2	83.72	13.72	22.94	PASS
WCDMA IV	AMR	1413	8N	AMR-WB 23.85	82.63	12.63	22.25	PASS
WCDMA V	AMR	4182	2N	AMR-NB 12.2	80.09	10.09	20.37	PASS
WCDMA V	AMR	4182	2N	AMR-WB 23.85	78.93	8.93	20.76	PASS
WCDMA V	AMR	4182	8N	AMR-NB 12.2	82.76	12.76	21.51	PASS
WCDMA V	AMR	4182	8N	AMR-WB 23.85	83	13	23.51	PASS

<FDD & TDD LTE>

Volume Control Performance					Conversational Gain Performance		Distortion and Noise Performance	Frequency Response Performance
Air Interface	Radio Configuration	Channel	Mounting Force	Codec Rates (Kbps)	Speech Level (dB SPL)	Conv. Gain (dB)	Minimum PN-SDNR (dB)	Free Field (FF)
LTE Band 7	20M_QPSK_1#0	21100	2N	AMR-NB 12.2	80.17	10.17	20.55	PASS
LTE Band 7	20M_QPSK_1#0	21100	2N	AMR-WB 23.85	78.53	8.53	21.02	PASS
LTE Band 7	20M_QPSK_1#0	21100	8N	AMR-NB 12.2	83.39	13.39	23.16	PASS
LTE Band 7	20M_QPSK_1#0	21100	8N	AMR-WB 23.85	82.55	12.55	22.88	PASS



LTE Band 12	10M_QPSK_1#0	23095	2N	AMR-NB 12.2	80.14	10.14	20.59	PASS
LTE Band 12	10M_QPSK_1#0	23095	2N	AMR-WB 23.85	78.33	8.33	20.84	PASS
LTE Band 12	10M_QPSK_1#0	23095	8N	AMR-NB 12.2	84.22	14.22	22.82	PASS
LTE Band 12	10M_QPSK_1#0	23095	8N	AMR-WB 23.85	83.02	13.02	23.10	PASS
LTE Band 13	10M_QPSK_1#0	23230	2N	AMR-NB 12.2	79.99	9.99	20.56	PASS
LTE Band 13	10M_QPSK_1#0	23230	2N	AMR-WB 23.85	78.03	8.03	20.88	PASS
LTE Band 13	10M_QPSK_1#0	23230	8N	AMR-NB 12.2	82.92	12.92	23.19	PASS
LTE Band 13	10M_QPSK_1#0	23230	8N	AMR-WB 23.85	83.48	13.48	23.22	PASS
LTE Band 14	10M_QPSK_1#0	23330	2N	AMR-NB 12.2	79.75	9.75	20.52	PASS
LTE Band 14	10M_QPSK_1#0	23330	2N	AMR-WB 23.85	77.67	7.67	20.86	PASS
LTE Band 14	10M_QPSK_1#0	23330	8N	AMR-NB 12.2	84.34	14.34	23.54	PASS
LTE Band 14	10M_QPSK_1#0	23330	8N	AMR-WB 23.85	83.71	13.71	22.09	PASS
LTE Band 25	20M_QPSK_1#0	26365	2N	AMR-NB 12.2	79.50	9.5	20.53	PASS
LTE Band 25	20M_QPSK_1#0	26365	2N	AMR-WB 23.85	77.46	7.46	20.82	PASS
LTE Band 25	20M_QPSK_1#0	26365	8N	AMR-NB 12.2	83.6	13.6	21.86	PASS
LTE Band 25	20M_QPSK_1#0	26365	8N	AMR-WB 23.85	82.03	12.03	22.72	PASS
LTE Band 26	15M_QPSK_1#0	26865	2N	AMR-NB 12.2	80.08	10.08	20.53	PASS
LTE Band 26	15M_QPSK_1#0	26865	2N	AMR-WB 23.85	78.71	8.71	21.06	PASS
LTE Band 26	15M_QPSK_1#0	26865	8N	AMR-NB 12.2	83.63	13.63	22.74	PASS
LTE Band 26	15M_QPSK_1#0	26865	8N	AMR-WB 23.85	82.23	12.23	22.28	PASS
LTE Band 30	10M_QPSK_1#0	27710	2N	AMR-NB 12.2	79.52	9.52	20.55	PASS
LTE Band 30	10M_QPSK_1#0	27710	2N	AMR-WB 23.85	78.30	8.3	20.77	PASS
LTE Band 30	10M_QPSK_1#0	27710	8N	AMR-NB 12.2	83.39	13.39	22.37	PASS
LTE Band 30	10M_QPSK_1#0	27710	8N	AMR-WB 23.85	82.32	12.32	23.06	PASS
LTE Band 41	20M_QPSK_1#0	40620	2N	AMR-NB 12.2	79.62	9.62	20.58	PASS
LTE Band 41	20M_QPSK_1#0	40620	2N	AMR-WB 23.85	78.38	8.38	20.83	PASS
LTE Band 41	20M_QPSK_1#0	40620	8N	AMR-NB 12.2	84.26	14.26	22.88	PASS
LTE Band 41	20M_QPSK_1#0	40620	8N	AMR-WB 23.85	83.85	13.85	22.76	PASS



LTE Band 48	20M_QPSK_1#0	55990	2N	AMR-NB 12.2	80.30	10.3	20.30	PASS
LTE Band 48	20M_QPSK_1#0	55990	2N	AMR-WB 23.85	77.97	7.97	21.02	PASS
LTE Band 48	20M_QPSK_1#0	55990	8N	AMR-NB 12.2	82.76	12.76	21.99	PASS
LTE Band 48	20M_QPSK_1#0	55990	8N	AMR-WB 23.85	83.35	13.35	23.19	PASS
LTE Band 66	20M_QPSK_1#0	132322	2N	AMR-NB 12.2	79.52	9.52	20.44	PASS
LTE Band 66	20M_QPSK_1#0	132322	2N	AMR-WB 23.85	78.69	8.69	21.01	PASS
LTE Band 66	20M_QPSK_1#0	132322	8N	AMR-NB 12.2	82.56	12.56	20.96	PASS
LTE Band 66	20M_QPSK_1#0	132322	8N	AMR-WB 23.85	83.86	13.86	22.59	PASS
LTE Band 71	20M_QPSK_1#0	133332	2N	AMR-NB 12.2	80.19	10.19	20.58	PASS
LTE Band 71	20M_QPSK_1#0	133332	2N	AMR-WB 23.85	77.77	7.77	20.76	PASS
LTE Band 71	20M_QPSK_1#0	133332	8N	AMR-NB 12.2	82.97	12.97	22.17	PASS
LTE Band 71	20M_QPSK_1#0	133332	8N	AMR-WB 23.85	82.55	12.55	23.69	PASS

<5G NR>

Volume Control Performance					Conversational Gain Performance		Distortion and Noise Performance	Frequency Response Performance
Air Interface	Radio Configuration	Channel	Mounting Force	Codec Rates (Kbps)	Speech Level (dB SPL)	Conv. Gain (dB)	Minimum PN-SDNR (dB)	Free Field (FF)
5G NR n7	20M_QPSK_1#1	507000	2N	AMR-NB 12.2	79.98	9.98	20.70	PASS
5G NR n7	20M_QPSK_1#1	507000	2N	AMR-WB 23.85	78.28	8.28	21.31	PASS
5G NR n7	20M_QPSK_1#1	507000	8N	AMR-NB 12.2	83.17	13.17	21.81	PASS
5G NR n7	20M_QPSK_1#1	507000	8N	AMR-WB 23.85	82.68	12.68	22.55	PASS
5G NR n25	20M_QPSK_1#1	376500	2N	AMR-NB 12.2	80.09	10.09	20.58	PASS
5G NR n25	20M_QPSK_1#1	376500	2N	AMR-WB 23.85	78.74	8.74	21.36	PASS
5G NR n25	20M_QPSK_1#1	376500	8N	AMR-NB 12.2	83.99	13.99	23.27	PASS
5G NR n25	20M_QPSK_1#1	376500	8N	AMR-WB 23.85	82.72	12.72	23.27	PASS
5G NR n26	20M_QPSK_1#1	167300	2N	AMR-NB 12.2	79.99	9.99	20.62	PASS
5G NR n26	20M_QPSK_1#1	167300	2N	AMR-WB 23.85	78.26	8.26	21.31	PASS



REPORT No.: SZ25100415S04

5G NR n26	20M_QPSK_1#1	167300	8N	AMR-NB 12.2	83.27	13.27	22.01	PASS
5G NR n26	20M_QPSK_1#1	167300	8N	AMR-WB 23.85	82.15	12.15	22.55	PASS
5G NR n30	20M_QPSK_1#1	461000	2N	AMR-NB 12.2	78.88	8.88	20.79	PASS
5G NR n30	20M_QPSK_1#1	461000	2N	AMR-WB 23.85	79.12	9.12	21.15	PASS
5G NR n30	20M_QPSK_1#1	461000	8N	AMR-NB 12.2	83.01	13.01	22.62	PASS
5G NR n30	20M_QPSK_1#1	461000	8N	AMR-WB 23.85	83.62	13.62	23.62	PASS
5G NR n41	20M_QPSK_1#1	518598	2N	AMR-NB 12.2	79.82	9.82	20.69	PASS
5G NR n41	20M_QPSK_1#1	518598	2N	AMR-WB 23.85	78.65	8.65	21.32	PASS
5G NR n41	20M_QPSK_1#1	518598	8N	AMR-NB 12.2	83.51	13.51	21.44	PASS
5G NR n41	20M_QPSK_1#1	518598	8N	AMR-WB 23.85	83.79	13.79	23.13	PASS
5G NR n48	20M_QPSK_1#1	641666	2N	AMR-NB 12.2	79.68	9.68	20.89	PASS
5G NR n48	20M_QPSK_1#1	641666	2N	AMR-WB 23.85	77.59	7.59	21.08	PASS
5G NR n48	20M_QPSK_1#1	641666	8N	AMR-NB 12.2	82.74	12.74	20.77	PASS
5G NR n48	20M_QPSK_1#1	641666	8N	AMR-WB 23.85	83.35	13.35	23.18	PASS
5G NR n66	20M_QPSK_1#1	349000	2N	AMR-NB 12.2	79.53	9.53	20.80	PASS
5G NR n66	20M_QPSK_1#1	349000	2N	AMR-WB 23.85	77.67	7.67	21.10	PASS
5G NR n66	20M_QPSK_1#1	349000	8N	AMR-NB 12.2	83.58	13.58	23.24	PASS
5G NR n66	20M_QPSK_1#1	349000	8N	AMR-WB 23.85	82.13	12.13	23.21	PASS
5G NR n71	100M_QPSK_1#1	136100	2N	AMR-NB 12.2	80.32	10.32	20.61	PASS
5G NR n71	100M_QPSK_1#1	136100	2N	AMR-WB 23.85	78.36	8.36	21.10	PASS
5G NR n71	100M_QPSK_1#1	136100	8N	AMR-NB 12.2	83.33	13.33	21.82	PASS
5G NR n71	100M_QPSK_1#1	136100	8N	AMR-WB 23.85	83.69	13.69	23.32	PASS
5G NR n77	100M_QPSK_1#1	650000	2N	AMR-NB 12.2	79.97	9.97	20.78	PASS
5G NR n77	100M_QPSK_1#1	650000	2N	AMR-WB 23.85	78.41	8.41	21.13	PASS
5G NR n77	100M_QPSK_1#1	650000	8N	AMR-NB 12.2	82.85	12.85	22.59	PASS
5G NR n77	100M_QPSK_1#1	650000	8N	AMR-WB 23.85	82.59	12.59	23.53	PASS



➤ Test Results for KDB 285076 D05 2.b

<FDD & TDD LTE>

Air Interface	Modulation / Mode	Channel	Mounting Force	Codec Rates (Kbps)	Speech Level (dB SPL)	Conversational Gain (dB)	Margin to Limit (dB)
LTE B7	20M_QPSK_1#0	21100	2N	EVS-NB 24.4	78.61	8.61	2.61
LTE B7	20M_QPSK_1#0	21100	2N	EVS-WB 128	79.23	9.23	3.23
LTE B7	20M_QPSK_1#0	21100	8N	EVS-NB 24.4	84.07	14.07	8.07
LTE B7	20M_QPSK_1#0	21100	8N	EVS-WB 128	83.66	13.66	7.66
LTE B12	10M_QPSK_1#0	23095	2N	EVS-NB 24.4	79.37	9.37	3.37
LTE B12	10M_QPSK_1#0	23095	2N	EVS-WB 128	80.73	10.73	4.73
LTE B12	10M_QPSK_1#0	23095	8N	EVS-NB 24.4	84.78	14.78	8.78
LTE B12	10M_QPSK_1#0	23095	8N	EVS-WB 128	82.54	12.54	6.54
LTE B13	10M_QPSK_1#0	23230	2N	EVS-NB 24.4	78.54	8.54	2.54
LTE B13	10M_QPSK_1#0	23230	2N	EVS-WB 128	79.07	9.07	3.07
LTE B13	10M_QPSK_1#0	23230	8N	EVS-NB 24.4	84.15	14.15	8.15
LTE B13	10M_QPSK_1#0	23230	8N	EVS-WB 128	84.12	14.12	8.12
LTE B14	10M_QPSK_1#0	23330	2N	EVS-NB 24.4	78.72	8.72	2.72
LTE B14	10M_QPSK_1#0	23330	2N	EVS-WB 128	80.73	10.73	4.73
LTE B14	10M_QPSK_1#0	23330	8N	EVS-NB 24.4	84.46	14.46	8.46
LTE B14	10M_QPSK_1#0	23330	8N	EVS-WB 128	83.69	13.69	7.69
LTE B25	20M_QPSK_1#0	26365	2N	EVS-NB 24.4	79.39	9.39	3.39
LTE B25	20M_QPSK_1#0	26365	2N	EVS-WB 128	80.35	10.35	4.35
LTE B25	20M_QPSK_1#0	26365	8N	EVS-NB 24.4	83.99	13.99	7.99
LTE B25	20M_QPSK_1#0	26365	8N	EVS-WB 128	82.9	12.9	6.9
LTE B26	15M_QPSK_1#0	26865	2N	EVS-NB 24.4	78.98	8.98	2.98
LTE B26	15M_QPSK_1#0	26865	2N	EVS-WB 128	79.79	9.79	3.79
LTE B26	15M_QPSK_1#0	26865	8N	EVS-NB 24.4	84.82	14.82	8.82
LTE B26	15M_QPSK_1#0	26865	8N	EVS-WB 128	82.76	12.76	6.76
LTE B30	10M_QPSK_1#0	27710	2N	EVS-NB 24.4	78.72	8.72	2.72



LTE B30	10M_QPSK_1#0	27710	2N	EVS-WB 128	80.76	10.76	4.76
LTE B30	10M_QPSK_1#0	27710	8N	EVS-NB 24.4	84.19	14.19	8.19
LTE B30	10M_QPSK_1#0	27710	8N	EVS-WB 128	82.66	12.66	6.66
LTE B41	20M_QPSK_1#0	40620	2N	EVS-NB 24.4	79.28	9.28	3.28
LTE B41	20M_QPSK_1#0	40620	2N	EVS-WB 128	79.53	9.53	3.53
LTE B41	20M_QPSK_1#0	40620	8N	EVS-NB 24.4	84.38	14.38	8.38
LTE B41	20M_QPSK_1#0	40620	8N	EVS-WB 128	83.58	13.58	7.58
LTE B48	20M_QPSK_1#0	55990	2N	EVS-NB 24.4	78.60	8.6	2.6
LTE B48	20M_QPSK_1#0	55990	2N	EVS-WB 128	80.61	10.61	4.61
LTE B48	20M_QPSK_1#0	55990	8N	EVS-NB 24.4	84.44	14.44	8.44
LTE B48	20M_QPSK_1#0	55990	8N	EVS-WB 128	83.35	13.35	7.35
LTE B66	20M_QPSK_1#0	132322	2N	EVS-NB 24.4	78.67	8.67	2.67
LTE B66	20M_QPSK_1#0	132322	2N	EVS-WB 128	79.57	9.57	3.57
LTE B66	20M_QPSK_1#0	132322	8N	EVS-NB 24.4	85.1	15.1	9.1
LTE B66	20M_QPSK_1#0	132322	8N	EVS-WB 128	82.5	12.5	6.5
LTE B71	20M_QPSK_1#0	133322	2N	EVS-NB 24.4	78.92	8.92	2.92
LTE B71	20M_QPSK_1#0	133322	2N	EVS-WB 128	80.46	10.46	4.46
LTE B71	20M_QPSK_1#0	133322	8N	EVS-NB 24.4	85.25	15.25	9.25
LTE B71	20M_QPSK_1#0	133322	8N	EVS-WB 128	83.44	13.44	7.44

<5G NR>

Air Interface	Modulation / Mode	Channel	Mounting Force	Codec Rates (Kbps)	Speech Level (dB SPL)	Conversational Gain (dB)	Margin to Limit (dB)
n7	20M_QPSK_1#1	507000	2N	EVS-NB 24.4	78.55	8.55	2.55
n7	20M_QPSK_1#1	507000	2N	EVS-WB 128	80.54	10.54	4.54
n7	20M_QPSK_1#1	507000	8N	EVS-NB 24.4	85.11	15.11	9.11
n7	20M_QPSK_1#1	507000	8N	EVS-WB 128	82.39	12.39	6.39
n25	20M_QPSK_1#1	376500	2N	EVS-NB 24.4	78.70	8.7	2.7
n25	20M_QPSK_1#1	376500	2N	EVS-WB 128	79.35	9.35	3.35
n25	20M_QPSK_1#1	376500	8N	EVS-NB 24.4	84.16	14.16	8.16



REPORT No.: SZ25100415S04

n25	20M_QPSK_1#1	376500	8N	EVS-WB 128	82.89	12.89	6.89
n26	20M_QPSK_1#1	167300	2N	EVS-NB 24.4	78.55	8.55	2.55
n26	20M_QPSK_1#1	167300	2N	EVS-WB 128	80.93	10.93	4.93
n26	20M_QPSK_1#1	167300	8N	EVS-NB 24.4	85.27	15.27	9.27
n26	20M_QPSK_1#1	167300	8N	EVS-WB 128	82.64	12.64	6.64
n30	10M_QPSK_1#1	461000	2N	EVS-NB 24.4	79.62	9.62	3.62
n30	10M_QPSK_1#1	461000	2N	EVS-WB 128	79.21	9.21	3.21
n30	10M_QPSK_1#1	461000	8N	EVS-NB 24.4	84.88	14.88	8.88
n30	10M_QPSK_1#1	461000	8N	EVS-WB 128	83.92	13.92	7.92
n41	20M_QPSK_1#1	518598	2N	EVS-NB 24.4	79.36	9.36	3.36
n41	20M_QPSK_1#1	518598	2N	EVS-WB 128	79.44	9.44	3.44
n41	20M_QPSK_1#1	518598	8N	EVS-NB 24.4	85.26	15.26	9.26
n41	20M_QPSK_1#1	518598	8N	EVS-WB 128	83.42	13.42	7.42
n48	20M_QPSK_1#1	641666	2N	EVS-NB 24.4	79.31	9.31	3.31
n48	20M_QPSK_1#1	641666	2N	EVS-WB 128	80.42	10.42	4.42
n48	20M_QPSK_1#1	641666	8N	EVS-NB 24.4	84.82	14.82	8.82
n48	20M_QPSK_1#1	641666	8N	EVS-WB 128	83.78	13.78	7.78
n66	20M_QPSK_1#1	349000	2N	EVS-NB 24.4	79.19	9.19	3.19
n66	20M_QPSK_1#1	349000	2N	EVS-WB 128	80.55	10.55	4.55
n66	20M_QPSK_1#1	349000	8N	EVS-NB 24.4	83.51	13.51	7.51
n66	20M_QPSK_1#1	349000	8N	EVS-WB 128	83.6	13.6	7.6
n71	100M_QPSK_1#1	136100	2N	EVS-NB 24.4	79.38	9.38	3.38
n71	100M_QPSK_1#1	136100	2N	EVS-WB 128	79.01	9.01	3.01
n71	100M_QPSK_1#1	136100	8N	EVS-NB 24.4	85.39	15.39	9.39
n71	100M_QPSK_1#1	136100	8N	EVS-WB 128	82.79	12.79	6.79
n77	100M_QPSK_1#1	650000	2N	EVS-NB 24.4	79.37	9.37	3.37
n77	100M_QPSK_1#1	650000	2N	EVS-WB 128	79.73	9.73	3.73
n77	100M_QPSK_1#1	650000	8N	EVS-NB 24.4	85.17	15.17	9.17



n77	100M_QPSK_1#1	650000	8N	EVS-WB 128	84.13	14.13	8.13
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10. Uncertainty Assessment

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances. Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Declaration of Conformity:

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



Component	Standard Uncertainty (dB)	U ² (%)
Generator Accuracy To enable harmonic distortion measurements to 0.1%, the generator distortion must be <0.05%. This is equivalent to a standard uncertainty of 0.043 dB.	0.043	0.25
Ear Simulator Pressure Sensitivity (incl. Measurement Mic.) The uncertainty of the ear simulator as per the standards and quoted on its calibration certificate is 0.3 dB with a coverage factor of k= 2. This is equivalent to a standard uncertainty of 0.3/2 = 0.15 dB.	0.15	3.03
Microphone Preamplifier The manufacturer quotes the preamp to be within + 0.02 dB with a 95% probability or 2σ. This is equivalent to a standard uncertainty of 0.02/2 =0.01 dB.	0.01	0.01
Analysis System / RMS Detector Typical measurement system detector accuracy is 0.1 dB with a coverage factor of k= 2. This is equivalent to a standard uncertainty of 0.1/2 = 0.05 dB.	0.05	0.33
Effect of Positioning on Mid-Band Sensitivity For a handset, with the HATS positioning jig, the typical standard deviation estimated from a statistically significant number of measurements is +2 dB This is equivalent to a standard uncertainty of 2 dB.	2.0	670.42
Time Varying Effects of the Mouth Simulator for Send & Sidetone For a receive measurement on a handset. the mouth simulator is not used (its uncertainty is zero), The standard uncertainty of 0 dB	0	0.00
Total Standard Uncertainty (%)	25.96	
UMAX (k=2) (%)	51.9	
UMAX (k=2) (dB)	3.6	



Annex A General Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

The FCC designation number is CN1192, the test firm registration number is 226174.



Annex B Test Setup Photos

The annex B will be submitted separately.

Annex C Test Results of Distortion and Noise

The annex C will be submitted separately.

Annex D Test Plots of Volume Control

The annex D will be submitted separately.



Notes

1. The report shall have report stamp or our company stamp.
2. The report shall be invalid without all the signatures of the editor and approver.
3. The report shall not be changed.
4. Any objections must be raised to Morlab within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.
5. Conformity declaration:
 - ☒ Morlab issues a statement of conformity based on the corresponding standards (default)
 - ☐ Morlab issues a statement of conformity based on the applicant requirement
6. Use of uncertainty of measurement for decisions on conformity (decision rule):

No decision rule is specified by the testing standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule).

***** END OF MAIN REPORT *****