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National Committee	Clause/ Subclause	Paragraph Figure/ Table	Type of comment (General/ Technical/Editorial)	COMMENTS	Proposed change	OBSERVATIONS OF THE SECRETARIAT on each comment submitted
ANSI ASC C63	ANSI C63.19:2011	7.4.2.1	Technical	For Clause 7, T-Coil testing, what audio reference should be used for LTE, in consideration of the guidance of 7.4.2.1: “For protocols not listed in Table 7.1, use the normal speech input level as defined in the relevant specifications for that air interface.”	None provided	See explanation below.

Answer:

For LTE 3GPP TS26.131 section 5.22 and 3GPP TS26.132 section 7.2.2.2 define the required RLR levels. Based on these specifications to satisfy the requirement of subclause 7.4.2.1 an audio signal level of -16dBm0 shall be used for normal speech input level.

The following are the applicable references from the 3GPP specifications:

3GPP TS26.131

5.2.2 Connections with handset UE

The nominal values of SLR/RLR to the POI shall be:

$$SLR = 8 \pm 3 \text{ dB};$$

$$RLR = 2 \pm 3 \text{ dB}.$$

Where a user-controlled receiving volume control is provided, the RLR shall meet the nominal value for at least one setting of the control. When the control is set to maximum, the RLR shall not be \leq (equal or louder than) -13 dB.

With the volume control set to the minimum position the RLR shall not be \geq (equal or quieter than) 18 dB.

Compliance shall be checked by the relevant tests described in TS 26.132.

3GPP TS26.132

7.2.2.2 Receiving loudness rating (RLR)

- a) The test signal to be used for normative measurements shall be the artificial voice according to ITU-T Recommendation P.50 [10]. Alternatively a speech-like test signal as described in ITU-T Recommendation P.501 may be used. The type of test signal used shall be stated in the test report. The test signal level shall be -16 dBm0 measured at the digital reference point or the equivalent analogue point. The test signal level is averaged over the complete test signal sequence.
- b) The handset terminal is setup as described in clause 5. The receiving sensitivity shall be calculated from each band of the 14 frequencies given in table 1 of ITU-T Recommendation P.79 [16], bands 4 to 17. For the calculation, the averaged measured level at each frequency band is referred to the averaged test signal level measured in each frequency band.
- c) The sensitivity is expressed in terms of dBPa/V and the RLR shall be calculated according to ITU-T Recommendation P.79 [16], formula (A-23c), over bands 4 to 17, using $m = 0,175$ and the receiving weighting factors from table 1 of ITU-T Recommendation P.79 [16].
- d) DRP-ERP correction is used. No leakage correction shall be applied.