



ANSI-ASC-C63[®] Interpretation

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Submission Date	Originator Name, Company
11/14/2017	Alexander Kriz, Seibersdorf Laboratories

Standard	Clause/ Sub clause	Paragraph Figure/ Table	Type (General/ Technical/ Editorial)	Comment / Inquiry	Subcommittee Response <i>(to be filled in by Subcommittee Chair)</i>
C63.4:2014	N.1		General	<p>Hybrid antennas are deemed to be suitable for use in making final compliance radiated emission measurements if the antenna symmetry is less than +1 dB in its entire frequency range (see condition B, item 2). An ISO/IEC 17025-accredited calibration laboratory shall perform these measurements (see condition B, item 4.iii). An undated reference to C63.5 is given, so the 2017 edition will be applied.</p> <p>In this version the given test procedure is limited to the frequency range from 30 MHz to 300 MHz (see chapter 4.4.3. of C63.5:2017). Is it faithful to advise our customers to measure the antenna symmetry in the frequency range from 30 MHz to 300 MHz if they use the antenna for compliance measurements according to C63.4:2014?</p>	<p>C63.4:2014, Annex N, clause N.1 b) 2) clearly states that “the hybrid antenna shall have measured antenna symmetry of ± 1 dB or less at all frequencies from 30 MHz to its highest frequency of operation (i.e., to 1 GHz or possibly higher). While C63.5 may have changed the upper frequency range, it does not change the text in C63.4:2014, Annex N, clause N.1 b) 2), so the “highest frequency of operation” requirement for symmetry remains. Therefore, if the symmetry is measured from 30 MHz to 300 MHz, the antenna can only be used to make measurements in that frequency range.</p> <p>There appears to be a frequency range conflict between C63.4:2014 and C63.5:2017. This should be addressed in the next revision of C63.4. In the meantime, the text in C63.4:2014 applies, including any stated frequency range(s).</p> <p>Regarding your question of advice to your customers, if your customers will use the antenna for C63.4:2014 testing, they must have measured symmetry “to its highest frequency of operation”.</p> <p>These interpretations offer an informative (not normative) interpretation of the contents of C63[®] standards.</p>