

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-12076-01-05 according to DIN EN ISO/IEC 17025:2018

Valid from: 09.06.2020

Date of issue: 16.06.2020

Holder of certificate:

CTC advanced GmbH
Untertürkheimer Straße 6-10, 66117 Saarbrücken

Tests in the fields:

Telecommunication (FCC Requirements)

Section	Scope	Test Method(s)	Frequency (max. assessed)
USA	Unintentional Radiators (FCC Part 15, Subpart B)	ANSI C 63.4-2014 American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	40 GHz
USA	Industrial, Scientific, and Medical Equipment (FCC Part 18) • Consumer ISM equipment	FCC MP-5:1986-02 FCC Methods of Measurements of Radio Noise Emissions from Industrial, Scientific, and Medical Equipment	325 GHz

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Section	Scope	Test Method(s)	Frequency (max. assessed)
USA	Intentional Radiators (FCC Part 15 Subpart C)	ANSI C 63.10-2013 American National Standard for Testing of Unlicensed Wireless Devices	500 GHz
USA	UPCS (FCC Part 15, Subpart D) <ul style="list-style-type: none"> Unlicensed Personal Communication Systems devices 	ANSI C 63.17-2013 American National Standard - Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices	40 GHz
USA	U-NII without DFS Intentional Radiators (FCC Part 15, Subpart E) <ul style="list-style-type: none"> Unlicensed National Information Infrastructure Devices (U-NII Devices without DFS) 	ANSI C 63.10-2013 American National Standard for Testing of Unlicensed Wireless Devices in combination with KDB Publication 789033	40 GHz
USA	U-NII with DFS Intentional Radiators (FCC Part 15, Subpart E) <ul style="list-style-type: none"> Unlicensed National Information Infrastructure (U-NII) Devices with Dynamic Frequency Selection (DFS) 	FCC KDB Publication 905462 D02 UNII DFS Compliance Procedures New Rules v02 (April 8, 2016)	40 GHz
USA	UWB Intentional Radiators (FCC Part 15, Subpart F) <ul style="list-style-type: none"> Ultra-wideband Operation 	ANSI C 63.10-2013 American National Standard for Testing of Unlicensed Wireless Devices	200 GHz

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Section	Scope	Test Method(s)	Frequency (max. assessed)
USA	BPL Intentional Radiators (FCC Part 15, Subpart G) <ul style="list-style-type: none"> Access Broadband over Power Line (Access BPL) 	ANSI C 63.10-2013 American National Standard for Testing of Unlicensed Wireless Devices	40 GHz
USA	White Space Device Intentional Radiators (FCC Part 15, Subpart H) <ul style="list-style-type: none"> White Space Devices 	ANSI C 63.10-2013 American National Standard for Testing of Unlicensed Wireless Devices	40 GHz
USA	Commercial Mobile Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> Part 22 (cellular) Part 24 Part 25 (below 3 GHz) Part 27 	ANSI/TIA-603-E-2016 ANSI/TIA-102.CAAA-E-2016 ANSI C63.26-2015 in combination with KDB Publication 971168	200 GHz
USA	General Mobile Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> Part 22 (non-cellular) Part 90 (below 3 GHz) Part 95 Part 97 (below 3 GHz) Part 101(below 3 GHz) 	ANSI/TIA-603-E-2016 ANSI/TIA-102.CAAA-E-2016 ANSI C63.26-2015	200 GHz
USA	Citizens Broadband Radio Services (FCC Licensed Radio Service Equipment) <ul style="list-style-type: none"> Part 96 	ANSI/TIA-603-E-2016 ANSI/TIA-102.CAAA-E-2016 ANSI C63.26-2015 in combination with KDB Publication 971168 and 940660	200 GHz

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USA	<p>Maritime and Aviation Radio Services (FCC Licensed Radio Service Equipment)</p> <ul style="list-style-type: none"> • Part 80 • Part 87 	<p>ANSI/TIA-603-E-2016 ANSI C63.26-2015</p>	200 GHz
USA	<p>Microwave and Millimeter Bands Radio Services (FCC Licensed Radio Service Equipment)</p> <ul style="list-style-type: none"> • Part 25 • Part 30 • Part 74 • Part 90 (above 3 GHz) • Part 95 (above 3 GHz) • Part 97 (Above 3 GHz) • Part 101 	<p>ANSI/TIA-603-E-2016 ANSI/TIA-102.CAAA-E-2016 ANSI C63.26-2015</p> <p>in combination with KDB Publication 653005</p>	500 GHz
USA	<p>Broadcast Radio Services (FCC Licensed Radio Service Equipment)</p> <ul style="list-style-type: none"> • Part 73 • Part 74 (below 3 GHz) 	<p>ANSI/TIA-603-E-2016 ANSI/TIA-102.CAAA-E-2016 ANSI C63.26-2015</p>	200 GHz
USA	<p>RF Exposure</p> <ul style="list-style-type: none"> • Devices subject to SAR requirements 	<p>IEEE Std 1528™-2013</p> <p>IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques</p> <p>in combination with KDB Publication 865664 and in combination with KDB Publication 447498</p>	6 GHz

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USA	Hearing Aid Compatibility (Part 20) <ul style="list-style-type: none"> HAC for Commercial mobile services 	ANSI C 63.19-2011 American National Standard for Methods of Measurement of Compatibility between Wireless Communication Devices and Hearing Aids	6 GHz
USA	Signal Boosters (Part 20) <ul style="list-style-type: none"> Wideband Consumer signal boosters Provider-specific signal boosters Industrial signal boosters Signal Boosters (Section 90.219)	ANSI C63.26-2015 in combination with KDB Publication 935210 D03, D04 and D05	200 GHz

- [1] ANSI/TIA-603-D-2010 or ANSI/TIA-102.CAAA-D-2013 may continue to be used until the end of the transition period which is two years from the date of the publication of this KDB.
- [2] ANSI C63.19-2007, *American National Standard for Methods of Measurement of Compatibility Between Wireless Communication Devices and Hearing Aids* may be used for HAC testing until August 28, 2018 per FCC 17-135.
- [3] For Signal Boosters (Part 20) accreditation is required for Commercial Mobile Services (FCC Licensed Radio Service Equipment) and for Signal Boosters (Section 90.219) accreditation is required for General Mobile Radio Services (FCC Licensed Radio Service Equipment).