



FCC RF Test Report

Product Name: Smart Phone

Model Number: NEN-LX3

Report No.: SYBH(Z-RF)20201128017001-2005

FCC ID: 2ATEYNEN-LX3

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MODIFICATION RECORD

No.	Report No	Modification Description
1	SYBH(Z-RF)2020112801 7001-2005	First release.

DECLARATION

Type	Description
Multiple Models	<input checked="" type="checkbox"/> The present report applies to single model.
Applications	<input type="checkbox"/> The present report applies to several models. The practical measurements are performed with the model
	The present report only presents the worst test case of all modes, see relevant test results for detailed.

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2 General Information

2.1 Test standard/s

Applied Rules :	47 CFR FCC Part 2, Subpart J 47 CFR FCC Part 15, Subpart C 47 CFR FCC Part 15, Subpart E
Test Method :	FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices

2.2 Test Environment

Temperature :	TN	15 to 30	°C during room temperature tests
Ambient Relative Humidity:	25 to 75 %		
Atmospheric Pressure:	Not applicable		
Power supply :	VL	3.6	V
	VN	3.87	V DC by Battery
	VH	4.45	V

NOTE 1: 1) VN= nominal voltage, VL= low extreme test voltage, VH= High extreme test voltage;

TN= normal temperature, TL= low extreme test temperature, TH= High extreme test temperature.

NOTE 2: The values used in the test report may be stringent than the declared.

2.3 Test Laboratories

Test Location 1 :	RELIABILITY LABORATORY OF HUAWEI TECHNOLOGIES CO., LTD.
Address of Test Location 1 :	No.2, New City Avenue, Songshan Lake Sci. & Tech. Industry Park, Dongguan, 523808, P.R.C
Temperature of Test Location 1 :	25°C
Relative humidity of Test Location 1 :	55 %

2.4 Applicant and Manufacturer

Company Name :	Huawei Device Co., Ltd.
Address :	No.2 of Xincheng Road, Songshan Lake Zone, Dongguan, Guangdong 523808, People's Republic of China

2.5 Application details

2.5.1 Current Test Project/Report

Date of Receipt Sample:	2021-01-18
Start of test:	2021-01-19
End of test:	2021-03-02

3 Test Summary

3.1 Measurement Technical Requirements

3.1.1 U-NII (5150-5250,5250-5350,5470-5725 MHz,5725-5850)

Test Item	Band	FCC Rule No.	Requirements	Test Result	Verdict	Testing location
Emission Bandwidth	5150-5250	15.403(i) 15.407(a)(1)	No limit.	Appendix A1&A2	Pass	Test Location 1
	5250-5350	15.403(i) 15.407(a)(2)				
	5470-5725	15.403(i) 15.407(a)(2)				
	5725-5850	15.403(i) 15.407(e)	≥ 500 kHz.			
Occupied Bandwidth	5150-5250	KDB 789033 D02 § D	No limit.	Appendix B	Pass	Test Location 1
	5250-5350					
	5470-5725					
	5725-5850					
Duty Cycle	5150-5850	KDB 789033 D02 § B	No limit.	Appendix C		
Maximum Output Power	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC: conducted < 250mW (avg during transmission)	Appendix D	Pass	Test Location 1
	5250-5350	15.407(a)(2) 15.407(a)(4)	FCC:conducted <MIN{250mW,11dBm+10*lg(EBW)} (avg during transmission)			
	5470-5725	15.407(a)(2) 15.407(a)(4)	FCC: conducted <MIN{250mW,11dBm+10*lg(EBW)} (avg during transmission)			
	5725-5850	15.407(a)(3)	conducted < 1W (avg during transmission)			
maximum Power Spectral Density	5150-5250	15.407(a)(1) 15.407(a)(4)	FCC conducted	Appendix E		Test Location

Test Item	Band	FCC Rule No.	Requirements	Test Result	Verdict	Testing location
			<11 dBm/MHz (avg during transmission)			1
	5250-5350	15.407(a)(2) 15.407(a)(4)	conducted <11 dBm/MHz (avg during transmission)			
	5470-5725	15.407(a)(2) 15.407(a)(4)	conducted <11 dBm/MHz (avg during transmission)			
	5725-5850	15.407(a)(3) 15.407(a)(4)	conducted <30dBm/500KHz (avg during transmission)			
Frequency Stability	5150-5250 5250-5350 5470-5725 5725-5850	15.407(g)	FCC Part 15.407(g)	Appendix F	Pass	Test Location 1
Unwanted Emissions that fall Outside of the Restricted Bands(Radiated)	5150-5250	15.407(b)(1) 15.407(b)(6) 15.407(b)(7) 15.209	<ul style="list-style-type: none"> F<1GHz: §15.209/§ RSS-gen, §8.9 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). 	Appendix G	Pass	Test Location 1
	5250-5350	15.407(b)(2) 15.407(b)(6) 15.407(b)(7) 15.209	<ul style="list-style-type: none"> F<1GHz: §15.209 /RSS-gen, §8.9 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). 			
	5470-5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7) 15.209	<ul style="list-style-type: none"> F<1GHz: §15.209/ RSS-gen, §8.9 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). 			
	5725-5850	15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209	<ul style="list-style-type: none"> F<1GHz: §15.209/ RSS-gen, §8.9 limit (QP) F≥1GHz &out-restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; 			

Test Item	Band	FCC Rule No.	Requirements	Test Result	Verdict	Testing location
			b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.			
Unwanted Emissions in the Restricted Bands (Radiated)	5150-5250 5250-5350 5470-5725 5725-5850	15.209	FCC: Part 15.209	Appendix G	Pass	Test Location 1
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207	FCC: Part 15.207 conducted limit;	Appendix H	Pass	Test Location 1
NOTE: The transmitter has an integral PCB loop antenna that is enclosed within the housing of the EUT and meets the requirements of FCC 15.203						

4 Description of the Equipment under Test (EUT)

4.1 General Description

NEN-LX3 is subscriber equipment in the GSM/WCDMA/LTE system. The GSM frequency bands include GSM850, GSM900, DCS1800 and PCS1900. The UMTS frequency band includes band I, band II, band IV, band V and band VIII. The LTE frequency bands include band 1,band 2,band 3,band 4,band 5,band 7,band 8,band 12,band 17,band 26,band 28 and band 66. The Mobile Phone implements such functions as RF signal receiving/transmitting, LTE/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service, GPS, AGPS, Wi-Fi etc. Externally it provides earphone port (to provide voice service), and dual SIM/single SIM card interface. NEN-LX3 is dual/single SIM smart phone. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet with a PC, or to exchange data with other Bluetooth devices.

Note1: Only 5G WIAN test data included in this report.



4.2 EUT Identity

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

4.2.1 Board

Board		
Description	Software Version	Hardware Version
Main Board	11.0.1.103(C900E48R1P2)	HL1NTNM

4.2.2 Sub-Assembly

Sub-Assembly			
Sub-Assembly Name	Model	Manufacturer	Description
Adapter	HW-110600E02	Huawei Device Co., Ltd.	Input voltage: 100-240Vac, 50/60Hz, 1.8A Output voltage: 5V2A/10V4A/11V6A max
Adapter	HW-110600B02	Huawei Device Co., Ltd.	Input voltage: 100-240Vac, 50/60Hz, 1.8A Output voltage: 5V2A/10V4A/11V6A max
Adapter	HW-110600U02	Huawei Device Co., Ltd.	Input voltage: 100-240Vac, 50/60Hz, 1.8A Output voltage: 5V2A/10V4A/11V6A max
Adapter	HW-110600A02	Huawei Device Co., Ltd.	Input voltage: 100-240Vac, 50/60Hz, 1.8A Output voltage: 5V2A/10V4A/11V6A max
Battery	HB466589EFW	Huawei Device Co., Ltd.	Rated capacity: 4200mAh Nominal Voltage:  +3.87V Charging Voltage:  +4.45V

4.3 Technical Description

NOTE: For the detailed technical descriptions, see the applicant/manufacturer's specifications or user manual.

Characteristics	Description	
IEEE 802.11 WLAN Mode Supported	<input checked="" type="checkbox"/> 802.11a	<input checked="" type="checkbox"/> 20 MHz,
	<input checked="" type="checkbox"/> 802.11n	<input checked="" type="checkbox"/> 20 MHz, <input checked="" type="checkbox"/> 40 MHz
	<input checked="" type="checkbox"/> 802.11ac	<input checked="" type="checkbox"/> 20 MHz, <input checked="" type="checkbox"/> 40 MHz, <input checked="" type="checkbox"/> 80 MHz, <input type="checkbox"/> 160MHz
TX/RX Operating Band	All	$f_c = 5000 \text{ MHz} + N * 5 \text{ MHz}$, where: - f_c = "Operating Frequency" in MHz, - N = "Channel Number".
	<input checked="" type="checkbox"/> 5150-5250 MHz (U-NII)	$N = 36$ to 48 with step of 4 for the 20 MHz channel bandwidth. $N = 38$ to 46 with step of 8 for the 40 MHz channel bandwidth. $N = 42$ for the 80 MHz channel bandwidth.
	<input checked="" type="checkbox"/> 5250-5350 MHz (U-NII)	$N = 52$ to 64 with step of 4 for the 20 MHz channel bandwidth. $N = 54$ to 62 with step of 8 for the 40 MHz channel bandwidth. $N = 58$ for the 80 MHz channel bandwidth.
	<input checked="" type="checkbox"/> 5470-5725 MHz (U-NII)	$N = 100$ to 140 with step of 4 for the 20 MHz channel bandwidth. $N = 102$ to 134 with step of 8 for the 40 MHz channel bandwidth. $N = 106$ to 122 with step of 16 for the 80 MHz channel bandwidth.
	<input checked="" type="checkbox"/> 5725-5850 MHz (U-NII)	$N = 149$ to 165 with step of 4 for the 20 MHz channel bandwidth. $N = 151$ to 159 with step of 8 for the 40 MHz channel bandwidth. $N = 155$ for the 80 MHz channel bandwidth.
Modulation Type	802.11a: BPSK/QPSK/16QAM/64QAM (OFDM).	
	802.11n: BPSK/QPSK/16QAM/64QAM (OFDM).	
	802.11ac: BPSK/QPSK/16QAM/64QAM/256QAM (OFDM).	
Emission Designator	U-NII(5150-5250, 5250-5350, 5470-5725, 5725-5850)	32M7G2D (for 802.11a mod), 32M4G0D (for 802.11n 20 MHz mode), 64M5G8D (for 802.11n 40 MHz mode), 32M3G6D (for 802.11ac 20 MHz mode) 63M8G6D (for 802.11ac 40 MHz mode) 100M6G4D (for 802.11ac 80 MHz mode)
TX Power Control (TPC)	<input checked="" type="checkbox"/> Supported, <input type="checkbox"/> Not Supported	
Equipment Type	<input checked="" type="checkbox"/> Stand-alone equipment, <input type="checkbox"/> Plug-in radio device, <input type="checkbox"/> Combined equipment	
Antenna Ports(TX&RX)	<input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3, <input type="checkbox"/> Ant 4	
Smart Antenna Systems	<input checked="" type="checkbox"/> 802.11a	<input checked="" type="checkbox"/> SISO, <input type="checkbox"/> 2*2 CDD, <input type="checkbox"/> 3*3 CDD, <input type="checkbox"/> 4*4 CDD
	<input checked="" type="checkbox"/> 802.11n	<input checked="" type="checkbox"/> SISO, <input type="checkbox"/> 2*2 MIMO, <input type="checkbox"/> 3*3 MIMO, <input type="checkbox"/> 4*4 MIMO
	<input checked="" type="checkbox"/> 802.11ac	<input checked="" type="checkbox"/> SISO, <input type="checkbox"/> 2*2 MIMO, <input type="checkbox"/> 3*3 MIMO, <input type="checkbox"/> 4*4 MIMO
Antenna Gain (dBi)	Ant 1: -1.1 dBi (per antenna port, max.)	
	Remark: When the EUT is put into service, the practical maximum antenna gain should NOT exceed the value as described above.	

Characteristics	Description	
Beamforming Gain	<input type="checkbox"/> Supported _____ dBi, <input checked="" type="checkbox"/> Not Supported	
Antenna Type	<input checked="" type="checkbox"/> Integral (permanent fixed antenna, which may be built-in, designed as an indispensable part of EUT) <input type="checkbox"/> Dedicated (removable antenna supplied with EUT, designed as an indispensable part of EUT)	
Power Supply	Type:	<input type="checkbox"/> External DC mains, <input checked="" type="checkbox"/> Battery, <input type="checkbox"/> AC/DC Adapter, <input type="checkbox"/> Powered over Ethernet (PoE). <input type="checkbox"/> USB <input type="checkbox"/> Other _____

5 General Test Conditions / Configurations

5.1 Test Modes

NOTE: Worst cases for each IEEE 802.11 mode are selected to perform tests.

Test Mode	Test Modes Description
11A	IEEE 802.11a with data rate of 6 Mbps using SISO mode.
11N_20M_SISO	IEEE 802.11n with data rate of MCS0 and bandwidth of 20 MHz using SISO mode.
11N_40M_SISO	IEEE 802.11n with data rate of MCS0 and bandwidth of 40 MHz using SISO mode.
11AC_20M_SISO	IEEE 802.11ac with data rate of MCS0 and bandwidth of 20 MHz using SISO mode.
11AC_40M_SISO	IEEE 802.11ac with data rate of MCS0 and bandwidth of 40 MHz using SISO mode.
11AC_80M_SISO	IEEE 802.11ac with data rate of MCS0 and bandwidth of 80 MHz using SISO mode.

5.2 EUT Configurations

5.2.1 General Configurations

Configuration	Description
Test Antenna Ports	Until otherwise specified, <ul style="list-style-type: none"> ● All TX tests are performed at all TX antenna ports of the EUT, and ● All RX tests are performed at all RX antenna ports of the EUT.
Multiple RF Sources	Other than the tested RF source of the EUT, other RF source(s) are disabled or shutdown during measurements.
Sensors and Antenna	Sensors and Antenna optimization function should be disabled during testing by software method to get the stable maximum power and avoid the influence of uncertain conditions

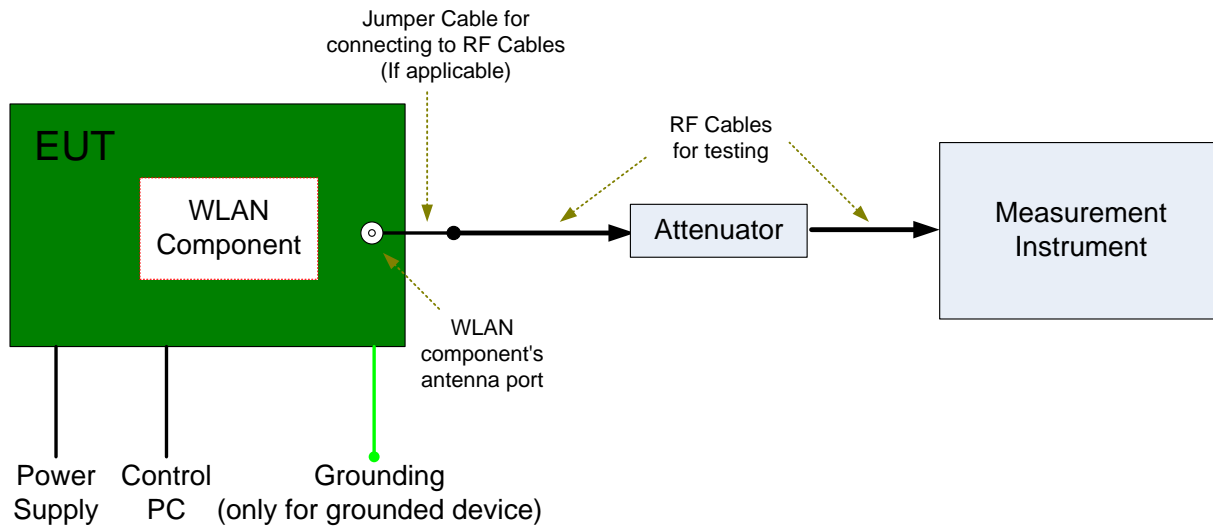
5.2.2 Customized Configurations

Test Mode	Power Level Setting defined by Manufacturer
	ANT1
11A	CH36/140:15 CH64:16 Others:19
11N-20M-SISO	CH36/140:15 CH64:16 Others:18.5
11N-40M-SISO	CH38:9 CH62:9.5 CH102:12 CH134:17 Others:18
11AC-20M-SISO	CH36/140:15 CH64:16 Others:18.5
11AC-40M-SISO	CH38:9 CH62:9.5 CH102:12 CH134:17 Others:18
11AC-80M-SISO	CH42:8 CH58:8.5 CH106:9 Others:17

5.3 Test Setups

5.3.1 Test Setup 1

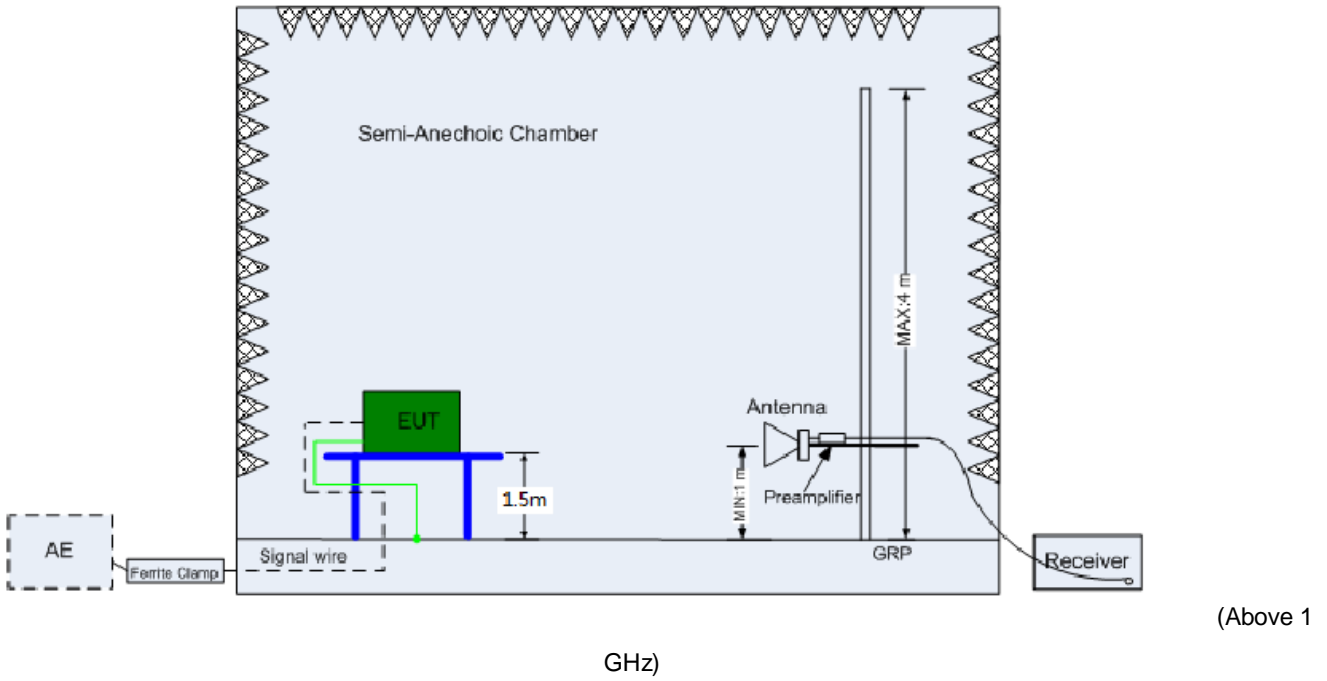
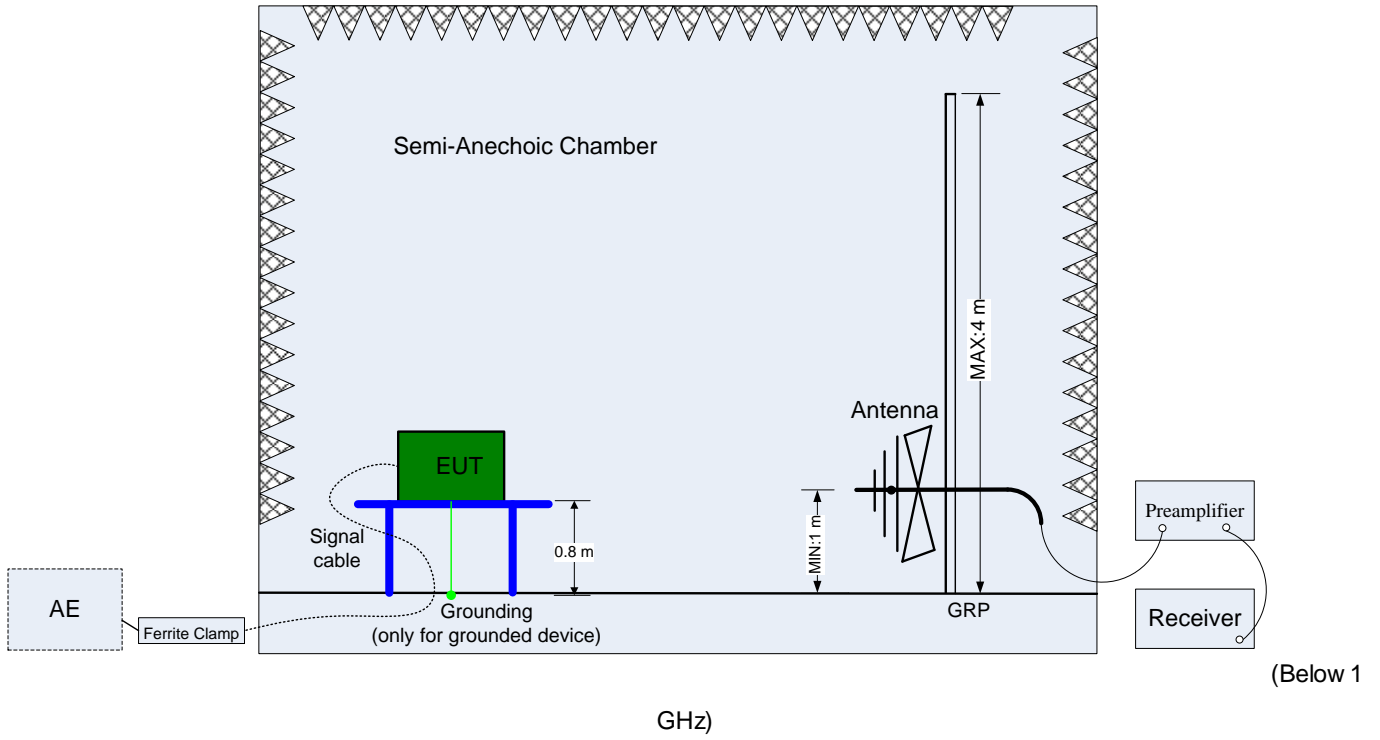
The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



5.3.2 Test Setup 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.4. The test distance is 3 m (for 30 MHz to 26.5 GHz) or 1 m (for 26.5 GHz to 40 GHz). The setup is according to ANSI C63.10, ANSI C63.4 and CAN/CSA-CEI/IEC CISPR 22.

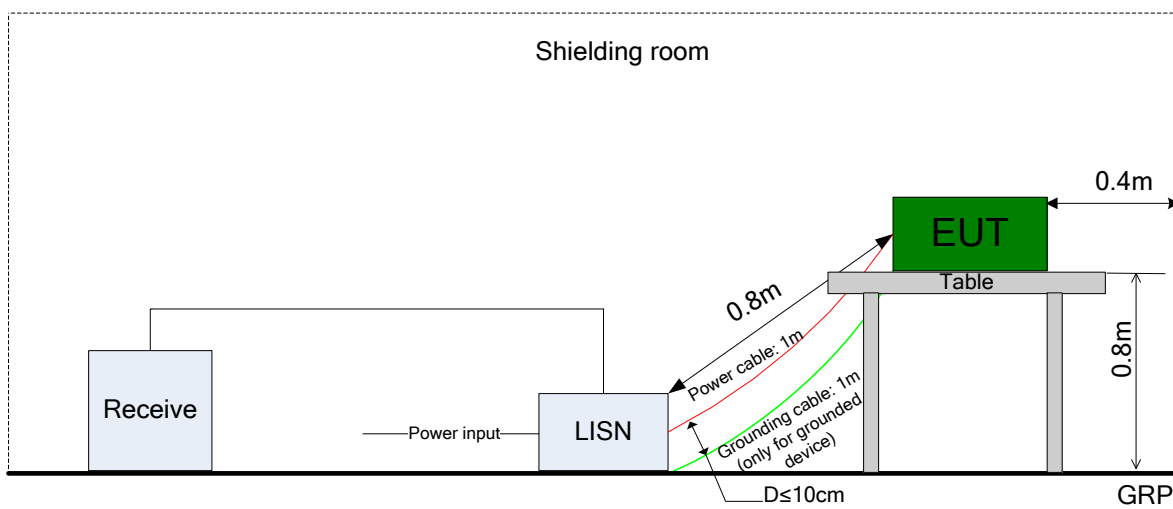
The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).



5.3.3 Test Setup 3

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.



5.4 Test Conditions

Test Case	Test Conditions	
	Configuration	Description
Emission Bandwidth (EBW)	Meas. Method	FCC KDB 789033 D02 §C).
	Test Env.	TN/VN
	Test Setup	Test Setup 1
	EUT Conf.	All EUT conf. with Tx modes.
Occupied Bandwidth (OBW)	Meas. Method	FCC KDB 789033 D02 §D).
	Test Env.	TN/VN
	Test Setup	Test Setup 1
	EUT Conf.	All EUT conf. with Tx modes.
Maximum Conducted Output Power	Meas. Method	FCC KDB 789033 D02 §E)3) a)
	Test Env.	TN/VN
	Test Setup	Test Setup 1
	EUT Conf.	All EUT conf. with Tx modes.
Maximum Power Spectral Density	Meas. Method	FCC KDB 789033 D02 §F).
	Test Env.	TN/VN
	Test Setup	Test Setup 1
	EUT Conf.	All EUT conf. with Tx modes.
Unwanted Emissions (Radiated)	Meas. Method	FCC KDB 789033 D02 §G), (Radiated)
	Test Env.	TN/VN
	Test Setup	Test Setup 2
	EUT Conf.	All EUT conf. with Tx modes.
Frequency Stability	Meas. Method	15.407(g) Frequency Stability
	Test Env.	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage; (2) VL, VN and VH of Rated Voltage at Ambient Climate.
	Test Setup	Test Setup 1
	EUT Conf.	11a,11ac80
AC Power Line Conducted Emissions	Meas. Method	AC mains conducted. Pre: RBW = 10 kHz; Det. = Peak. Final: RBW = 9 kHz; Det. = CISPR Quasi-Peak & Average.
	Test Env.	TN/VN
	Test Setup	Test Setup 3
	EUT Conf.	11a(Worst Conf.)

6 Main Test Instruments

6.1 Current Test Project/Report

Main Test Equipments(BT/WIFI test system)					
Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal-Due
JS1120-3 BT/WIFI test system	JS Tonscend	JS0806-2	188060102	2020/11/10	2021/11/09
Temperature Chamber	WEISS	WKL64	5624601330010	2020/05/13	2021/05/12
Spectrum Analyzer	Agilent	N9020A	MY52090652	2020/11/09	2021/11/08
Universal Radio Communication Tester	R&S	CMW500	164698	2020/07/02	2021/07/01
Vector Signal Generator	R&S	SMW200A	103447	2020/11/10	2021/11/09
Signal generator	Agilent	E8257D	MY49281095	2020/07/03	2021/07/02

Main Test Equipments(RE test system)					
Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal-Due
Test receiver	R&S	ESU26	100150	2020/11/06	2021/11/05
LOOP Antennas(9kHz-30MHz)	R&S	HFH2-Z2	100262	2019/07/05	2021/07/04
LOOP Antennas(9kHz-30MHz)	R&S	HFH2-Z2	100263	2019/03/15	2021/03/14
Trilog Broadband Antenna (30M~3GHz)	SCHWARZBECK	SCHWARZBECK	VULB 9163	9163-1330	2020/08/10
Trilog Broadband Antenna (1GHz~18GHz)	SCHWARZBECK	HF907	100305	2019/03/15	2021/03/14
Trilog Broadband Antenna (18GHz~40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170644	2019/10/29	2021/10/28
Software Information					
Test Item	Software Name		Manufacturer	Version	
RE	EMC32		R&S	V9.25.0	

Main Test Equipments(CE test system)					
Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal-Due
Test receiver	R&S	ESU26	100150	2020/11/06	2021/11/05
Line Impedance Stabilization Network	R&S	ENV216	101176	2020/7/13	2021/07/12
Software Information					
Test Item	Software Name		Manufacturer	Version	
CE	EMC32		R&S	V9.25.0	

7 Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item		Extended Uncertainty
Transmit Output Power Data	Power [dBm]	U = 0.58 dB
RF Power Density, Conducted	Power [dBm]	U = 0.66 dB
Bandwidth	Magnitude [kHz]	20MHz: U=41.78kHz 40MHz: U=82.12kHz 80MHz: U=163.5kHz 160MHz:U=326.66kHz
Band Edge Compliance	Disturbance Power [dBm]	U = 0.9 dB
Spurious Emissions, Conducted	Disturbance Power [dBm]	20MHz~3.6GHz: U=0.88dB 3.6GHz~8.4GHz: U=1.08dB 8.4GHz~13.6GHz: U=1.24dB 13.6GHz~22GHz: U=1.34dB 22GHz~26.5GHz: U=1.36dB
Field Strength of Spurious Radiation	ERP/EIRP [dBm]	For 3 m Chamber: U = 3.868 dB (9 kHz to 150 kHz) U = 3.872 dB (150 kHz to 30 MHz) U = 5.24 dB (30 MHz-1 GHz) U = 4.84 dB (1 GHz-18 GHz) U = 4.62 dB (18 GHz-26.5 GHz) U = 5.16 dB (26.5 GHz-40 GHz)
Frequency Stability	Frequency Accuracy [Hz]	U=82.24Hz
AC Power Line Conducted Emissions	Disturbance Voltage[dB μ V]	U=2.3 dB
Duty Cycle	Duty Cycle [%]	U=±2.06 %

8 Appendixes

Appendix No.	Description
SYBH(Z-RF)20201128017001-2005-A	Appendix_for_5G_WLAN(Conducted)
SYBH(Z-RF)20201128017001-2005-B	Appendix_for_5G_WLAN(Radiated)

END