



FCC RF Test Report

Product Name: Smart Phone

Model Number: MGA-LX3

Report No.: SYBH(Z-RF)20220606001001-2004

FCC ID: 2ATEYMGA

Authorized	Name	Date
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RF Report for MGA-LX3 Public

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 The accreditation number is 2174.01.
- 2. The laboratory has been recognized by the US Federal Communications Commission (FCC) to perform compliance testing subject to the Commission's Certification rules. The Designation Number is CN1173, and the Test Firm Registration Number is 294140.
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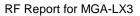


MODIFICATION RECORD

No.	Report No	Modification Description
1	SYBH(Z-RF)20220105022001-2004	First release.
2		Updated report:
		(1) Updated the version of the board, and added some tests
		according to differences and modifications of the new version, please
	SYBH(Z-RF)20220606001001-2004	see General Description for details:
		Note 1: The history report(s) should be withdrawn;

DECLARATION

Туре	Description
Multiple Models	
Applications	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		
	FCC KDB 558074 D01 DTS Meas Guidance v05r02		
Test Method :	ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless		
	Devices.		

2.2 Test Environment

Temperature :	TN	15 1	to 30	°C du	ring room temperature tests
Ambient Relative Humidity:	25 to 75 %				
Atmospheric Pressure:	Not applicable				
Power supply :	VN	3.87		٧	DC by Battery

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., LTI			
Address of Test Location 1:	No.2 New City Avenue, Songshan Lake Science & Technology Industry Park Dongguan, Guangdong, 523808, People's Republic of China		
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		
Address .	Republic of China		

2.5 Application details

2.5.1 Current Test Project/Report

Date of Receipt Sample:	2022-06-06
Start of test:	2022-06-07
End of test:	2022-06-24

2.5.2 History Test Project/Report(MGA-LX3/No.SYBH(Z-RF)20220105022001-2004)

Start of test:	2022-01-11
End of test:	2022-02-08

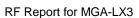


3 Test Summary

Test Item	FCC Rule No.	Requirements	Test Result	Verdict	Testing location
DTS (6 dB) Bandwidth	TS (6 dB) Bandwidth 15.247(a)(2)		Appendix A	Pass	Test Location 1
Occupied Bandwidth		No limit	Appendix B	Pass	Test Location 1
Duty Cycle	KDB 558074 D01(6.0)	No limit	Appendix C	Pass	Test Location 1
Maximum Average Output Power	15.247(b)(3)	FCC: For directional gain: Conducted < 30 dBm – (G[dBi] – 6 [dB]); Otherwise: Conducted < 30 dBm,	Appendix D	Pass	Test Location 1
Maximum Power Spectral Density Level	15.247(e)	Conducted < 8 dBm/3 kHz.	Appendix E	Pass	Test Location 1
Band Edges Compliance		20 dDr/400 kHz if total average	Appendix F	Pass	Test Location 1
Unwanted Emissions into Non-Restricted Frequency Bands	15.247(d)	<-30 dBr/100 kHz if total average power ≤ power limit.	Appendix G	Pass	Test Location 1
Unwanted Emissions into Restricted Frequency Bands (Radiated)	15.247(d) 15.209 (NOTE 1)	FCC Part 15.209 field strength limit;	Appendix H	Pass	Test Location 1
AC Power Line Conducted Emissions	15.207	FCC Part 15.207 conducted limit;	Appendix I	Pass	Test Location 1

NOTE 1:According to KDB 558074 D01, antenna-port conducted measurements are acceptable as an alternative to radiated measurements for demonstrating compliance to the limits in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case emissions will also be required.

NOTE2: 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



Public



4 Description of the Equipment under Test (EUT)

4.1 General Description

MGA-LX3 is subscriber equipment in the GSM/WCDMA/LTE system. The GSM frequency bands include GSM850, GSM900, DCS1800 and PCS1900. The WCDMA frequency band includes band I, band II, band IV, band V, band VIII. The LTE frequency bands include band 1, band 2, band 3, band 4, band 5, band 7, band 8, band 13, band 28, band 38, band 26, band 66. The Mobile Phone implements such functions as RF signal receiving/transmitting, LTE/WCDMA and GSM 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. MGA-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.

The differences between model MGA-LX3 are shown in the below table:

	Model	MGA-LX3	MGA-LX3		
	Model	(OLD)	(NEW)		
	LTE BAND	FDD: B2/B4/B5/B7/B13/B66/B26	FDD: B2/B4/B5/B7/B13/B66/B26		
	LIL BAND	TDD: B38	TDD: B38		
Licensed	UMTS BAND	Band II /Band IV/Band V	Band II /Band IV/Band V		
Frequency(FCC)	GSM	GSM 850/PCS 1900	GSM 850/PCS 1900		
	IC	the same	the same		
	Antenna	the same	the same		
	NFC	Not Support	Not Support		
	Bluetooth	the same	the same		
Ulakanaad	Wi-Fi	the same	the same		
Unlicensed	GPS	the same	the same		
Frequency	FM	the same	the same		
	IC	the same	the same		
	Antenna	the same	the same		
	Ram / Rom	the same	the same		
	Camera	the same	the same		
	PCB	The hardware version is HL1MGAM	The hardware version is HL1MGAMY		
	USB Port	the same	the same		
	SIM	the same	the same		
		1、The RF LNA is different and the	1. The RF LNA is different and the		
Hardware		surrounding cabling is different;	surrounding cabling is different;		
		2、RF APT power supplies are different	2、RF APT power supply is different		
	RF circuit	and peripheral components are	and peripheral components are		
	RF Circuit	different;	different;		
		3、The components of the duplexer (W	3、The duplexer (W B5, LTE B5/		
		B5, LTE B5/ B13/B66) are different, but	B13/B66) are different, but the		
		the peripheral circuits are the same.	peripheral circuits are the same.		
		The RF NV values of the LTE	The RF NV values of the LTE		
Software	RF Parameter	B5/B13/B66 frequency bands are	B5/B13/B66 frequency bands are		
		different, but the power is the same.	different, but the power is the same.		



		Other parameters are the same.	Other parameters are the same.
	Tune-up	the same	the same
	CA	Not Support	Not Support
Appearance	Dimension	the same	the same
	Color	the same	the same
	Battery	the same	the same
Accessory	Charger	the same	the same
Accessory	USB Cable	the same	the same
	Earphone	the same	the same

Note 1: Only 2.4G WIFI test data included in this report.

Note2: According to the difference description above, MGA-LX3(NEW) share the same test data with MGA-LX3(OLD) for 2.4G WIFI.

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			
Product Name :	Smart Phone	Smart Phone		
Model name :	MGA-LX3			
SN:	Conducted N/A			
	Radiated	N/A		
Software Version :	12.0.0.167(C900E167R1P1)			
Hardware Version :	HL1MGAMY			



4.2.2 Sub-Assembly

	Sub-Assembly				
Sub-Assembly Name	Model	Manufacturer	Description		
Adapter	HW-100225E00	Huawei Device Co., Ltd.	Input voltage: 100-240V ~50/60Hz 0.75A Output voltage: 5V/2A,9V/2A,10V/2.25A		
Adapter	HW-100225B00	Huawei Device Co., Ltd.	Input voltage: 100-240V ~50/60Hz 0.75A Output voltage: 5V/2A,9V/2A,10V/2.25A		
Adapter	HW-100225U00	Huawei Device Co., Ltd.	Input voltage: 100-240V ~50/60Hz 0.75A Output voltage: 5V/2A,9V/2A,10V/2.25A		
Adapter	HW-100225A00	Huawei Device Co., Ltd.	Input voltage: 100-240V ~50/60Hz 0.75A Output voltage: 5V/2A,9V/2A,10V/2.25A		
Battery	HB536896EFW	Huawei Device Co., Ltd.	Rated capacity: 5900mAh Nominal Voltage: +3.87V Charging Voltage: +4.45V		



Public



4.3 Technical Description

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

Characteristic	Description				
IEEE 802.11 WLAN Mode	⊠ 802.11b	⊠ 20 MHz,			
Supported	⊠ 802.11g				
	⊠ 802.11n				
		☐ HE SU	☐ 20 MHz, ☐ 40 MHz		
		☐ HE ERSU	☐ 20 MHz: 106-Tone/242-Tone		
	□ 000 11ev		☐ 20 MHz: 26-Tone/52-Tone/106-Tone/242-Tone		
	□ 802.11ax	│	☐ 40 MHz:26-Tone/52-Tone/106-Tone/242-Tone/484-Tone		
		☐ HE MU	☐ 20 MHz: 26-Tone/52-Tone/106-Tone/242-Tone		
			☐ 40 MHz:26-Tone/52-Tone/106-Tone/242-Tone/484-Tone		
TV/DV Operating Penge	2412-2462 MHz	2407 MHz + N	5 MHz, N = 111 (for 802.11b/g/n).		
TX/RX Operating Range		2407 MHz + N ³	5 MHz, N = 39 (for 802.11n).		
Baseband Modulation	802.11b : DBPSK	/DQPSK/CCK(DS	SSS)		
	802.11g : BPSK/0	QPSK/16QAM/640	QAM(OFDM)		
	802.11n : BPSK/0	QPSK/16QAM/640	QAM(OFDM)		
Emission Designator	8M06G7D (for 80	8M06G7D (for 802.11b mode),			
	16M4G7D (for 802.11g mod),				
	17M6G7D (for 802.11n20 mode),				
	35M8G7D (for 80	02.11n40 mode)			
TX Power Control	Supported, □	ed, Not Supported			
Standby Mode	☐ Supported, ⊠	☑ Not Supported			
Equipment Type		quipment, Plug-in radio device, Combined equipment			
Antenna	Description	Isotropic Anteni	Isotropic Antenna		
	Type	Integral (permanent fixed antenna, which may be built-in, designed as an			
		indispensable part of EUT)			
		☐ Dedicated (removable antenna supplied with EUT, designed as an indispensable part of EUT)			
	Ports				
	Smart System	⊠ 802.11b	⊠SISO, □2*2 CDD, □3*3 CDD, □4*4 CDD		
	-	⊠ 802.11g	⊠SISO, □2*2 CDD, □3*3 CDD, □4*4 CDD		
		⊠ 802.11n	⊠SISO, □2*2 MIMO, □3*3 MIMO, □4*4 MIMO		
		☐ 802.11ax	□SISO, □2*2 MIMO, □3*3 MIMO, □4*4 MIMO		
	Gain	Ant 1: -2.3 (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.			
Power Supply	Туре	☐ External DC	mains,		
		□ Battery,			



Characteristic	Description	
		☐ AC/DC Adapter,
		☐ Powered over Ethernet (PoE).
		□ USB
		☐ Other



5 General Test Conditions / Configurations

5.1 Test Modes

5.1.1 Worst case Configurations

NOTE: Typical working modes for each IEEE 802.11 mode are selected to perform tests

Test Mode	Power Level Setting defined by Manufacturer ANT1	Test Modes Description
11b20SISO	17.50	IEEE 802.11b with data rate of 1 Mbps using SISO mode.
11g20SISO	CH1/CH11:7.50 CH2/CH3:11.00 CH4~CH8:17.50 CH9:12.50 CH10:9.50	IEEE 802.11g with data rate of 6 Mbps
11n20SISO	CH1/CH11:7.50 CH2/CH3:11.50 CH4~CH8:17.00 CH9:12.50 CH10:9.50	IEEE 802.11n with data rate of MCS0 and bandwidth of 20 MHz, using SISO mode
11n40SISO	CH3/CH4:6.50 CH8:8.50 CH9:7.50 CH5~CH7:16.00	IEEE 802.11n with data rate of MCS0 and bandwidth of 40 MHz, using SISO mode

5.1.2 Frequencies under Test

Test Bandwidth	RF Channel			
Test Bandwidth	Lowest (L)	Middle (M)	Highest (H)	
20MHz	Ch No. 1 / 2412 MHz	Ch No. 6 / 2437 MHz	Ch No. 11 / 2462 MHz	
40MHz	Ch No. 3 / 2422 MHz	Ch No. 6 / 2437 MHz	Ch No. 9 / 2452 MHz	

Note: Due to the channel power levels are different, we have increased the proximity channel test in Appendix.



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5.1.3 The Typica and worst case operational mode for each of the following tests

Test Item	Mode	Antenna	Bandwidth	Tone for 11ax	RU for 11ax
DTS (6 dB) Bandwidth	All	SISO	All	N/A	N/A
Occupied Bandwidth	All	SISO	All	N/A	N/A
Duty Cycle	All	SISO	All	N/A	N/A
Maximum Average Output Power	All	SISO	All	N/A	N/A
Maximum Power Spectral Density Level	All	SISO	20MHz	N/A	N/A
Band Edges Compliance	All	SISO	All	N/A	N/A
Unwanted Emissions into Non-Restricted Frequency Bands	All	SISO	All	N/A	N/A
Unwanted Emissions into Restricted Frequency Bands (Radiated)	All	SISO	All	N/A	N/A
AC Power Line Conducted Emissions	11b	SISO	20MHz	N/A	N/A



5.2 Description of tests

5.2.1 Bandwidth measurement

- (a) Connect EUT test port to spectrum analyzer.
- (b) Set the EUT to transmit maximum output power at 2.4GHz, then set the measured frequency number and test the bandwidth with spectrum analyzer.

5.2.2 Average output power

- (a) Connect EUT test port to spectrum analyzer.
- (b) Set the EUT to transmit maximum output power at 2.4GHz.
- (c) Then set the EUT to transmit at high, middle and low frequency and measure the conducted output power separately.

5.2.3 Band edge spurious emission

- (a) Connect EUT test port to spectrum analyzer
- (b) Set the EUT to transmit maximum output power at 2.4GHz.
- (c) Then set the EUT to transmit at high, low frequency and measure the conducted band edge spurious separately.

5.2.4 Conducted RF spurious

- (a) Connect EUT test port to spectrum analyzer
- (b) Set the EUT to transmit maximum output power at 2.4GHz.
- (c) Then set the EUT to transmit at high, middle and low frequency and measure the conducted spurious separately.

5.2.5 Power spectral density

- (a) Connect EUT test port to spectrum analyzer
- (b) Set the EUT to transmit maximum output power at 2.4GHz.
- (c) Then set the EUT to transmit at high, middle and low frequency and measure the conducted power spectral density.

5.2.6 Radiated spurious emission & spurious in restricted band

For frequency below 1GHz, the test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10 (2013). The EUT was set-up on insulator 80cm above the Ground Plane. For frequency above 1GHz, the test site full-anechoic chamber has met the requirement of ANSI C63.10 (2013). The EUT was set-up on insulator 150cm above the Ground Plane.

The set-up and test methods were according to ANSI C63.10:2013. The Radiated Disturbance measurements were made using a Rohde and Schwarz Test Receiver and control software.

A preliminary scan and a final scan of the emissions were made by using test script of software; the emissions were measured using a Quasi-Peak Detector below 1GHz, Peak Detector and AV Detector above 1GHz. The maximal emission value was acquired by



adjusting the antenna height, polarisation and turntable azimuth in accordance with the software setup. Normally, the height range of antenna was 1m to 4m, and the azimuth range of turntable was 0°to 360°. The receive antenna has two polarizations V and H.

A portable or small unlicensed wireless device shall be placed on a non-metallic test fixture or other nonmetallic support during testing. The supporting fixture shall permit orientation of the EUT in each of three orthogonal (x, y, z) axis positions such that emissions from the EUT are maximized.

The EUT communicates with the BTS simulator through Air interface. The EUT operated on the typical channel.

Measurement bandwidth: 30 MHz - 1000 MHz: 120 kHz

Measurement bandwidth: 1000 MHz – 10th Carrier Frequency: 1 MHz

5.2.7 Conducted Emission at Power Port

The Table-top EUT was placed upon a non-metallic table 0.8 m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

Conducted Disturbance at AC Port measurements were undertaken on the L and N Lines. The emissions were measured using a Quasi-Peak Detector and Average Detector.

The EUT communicates with the BTS simulator through Air interface, the BTS simulator controls the Wireless Modem to transmitter the maximum power which defined in specification of product. The Wireless Modem operated on the typical channel.

Measurement bandwidth (RBW) for 150kHz to 30 MHz: 9 kHz;



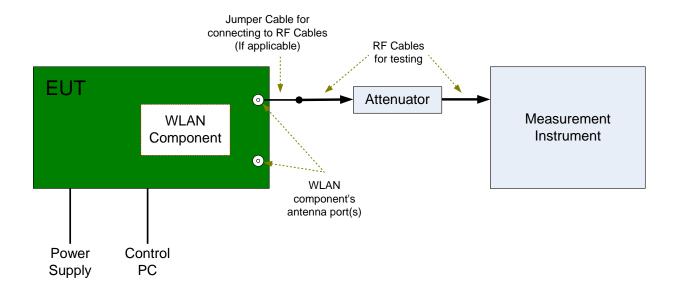
5.3 Test Setups

5.3.1 General Test Setup Configurations

Configuration	Description	
Test Antenna Ports	Until otherwise specified,	
	- 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	

5.3.2 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.

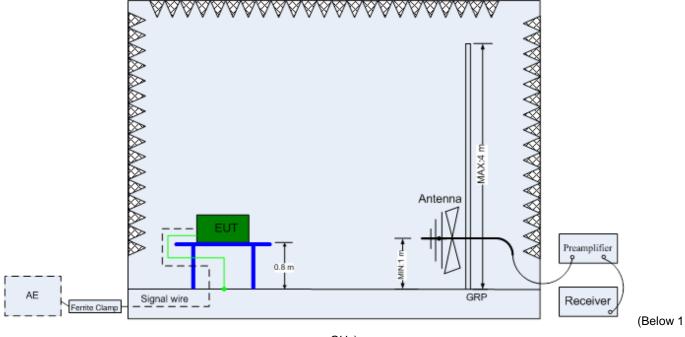


5.3.3 Test Setup 2

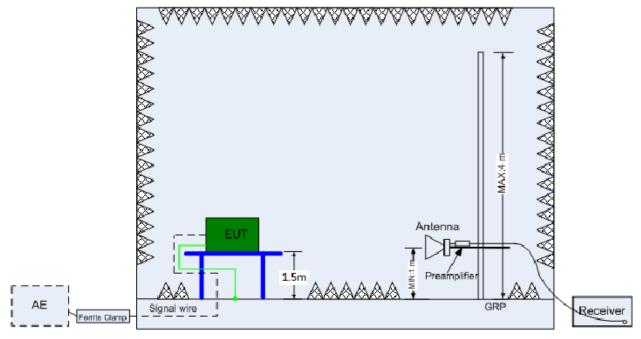
The semi-anechoic chamber and full-anechoic chamber has met the requirement of ANSI C63.4. The test distance is 3m.The setup is according to ANSI C63.4 and CAN/CSA-CEI/IEC CISPR 22.

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).





GHz)



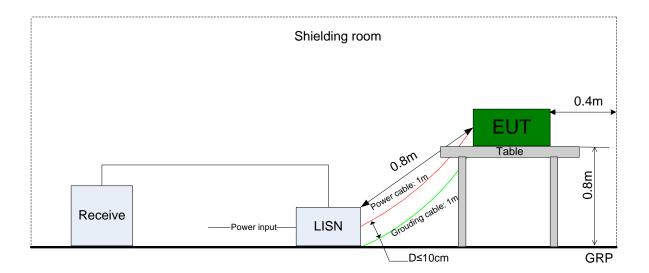
(Above 1 GHz)

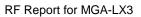


5.3.4 Test Setup 3

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		
DTS (6 dB)	Measurement Method	FCC KDB 558074 D01 §8.2 Option 1.		
Bandwidth	Test Environment	TN/VN		
	Test Setup	Test Setup 1		
	EUT Configuration	See §5.1		
Occupied	Measurement Method	ANSI C63.10 Section 6.9.3		
Bandwidth	Test Environment	TN/VN		
	Test Setup	Test Setup 1		
	EUT Configuration	See §5.1		
Maximum	Measurement Method	FCC KDB 558074 D01 §8.3.2.2		
Conducted Average	Test Environment	TN/VN		
Output Power	Test Setup	Test Setup 1		
	EUT Configuration	See §5.1		
Maximum Power	Measurement Method	FCC KDB 558074 D01 §8.4		
Spectral Density	Test Environment	TN/VN		
Level	Test Setup	Test Setup 1		
	EUT Configuration	See §5.1		
Band Edges	Measurement Method	FCC KDB 558074 D01 §8.7		
Compliance	Test Environment	TN/VN		
	Test Setup	Test Setup 1		
	EUT Configuration	See §5.1		
Unwanted	Measurement Method	FCC KDB 558074 D01 §8.5		
Emissions into	Test Environment	TN/VN		
Non-Restricted	Test Setup	Test Setup 1		
Frequency Bands	EUT Configuration	See §5.1		
Unwanted	Measurement Method	ANSI C63.10; FCC KDB 558074 D01 §8.6, Radiated		
Emissions into	Test Environment	TN/VN		
Restricted	Test Setup	Test Setup 2		
Frequency Bands	EUT Placement	☐ Flatwise, ☐ Upright, ☐ Hung		
(Radiated)	EUT Configuration	See §5.1		
AC Power Line	Measurement Method	AC mains conducted.		
Conducted	Test Environment	TN/VN		
Emissions	Test Setup	Test Setup 3		
	EUT Configuration	See §5.1		



6 Main Test Instruments

6.1 Current Test Project/Report

N/A

6.2 Reference Test Project/Report

Refer to History Report of MGA-LX3/20220105022001-2004.



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 = 0.39 dB
RF Power Density, Conducted	Power [dBm]	U = 0.66 dB
Bandwidth	Magnitude [kHz]	20MHz: U=41.78kHz
		40MHz: U=82.12kHz
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 = 3.782 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)
AC Power Line Conducted Emissions	Disturbance Voltage[dBµV]	U=2.3 dB
Duty Cycle	Duty Cycle [%]	U=±2.06 %

8 Appendixes

Appendix No.	Description
SYBH(Z-RF)20220606001001-2004-A	Appendix for 2.4G WLAN(Conducted)
SYBH(Z-RF)20220606001001-2004-B	Appendix for 2.4G WLAN(Radiated)

Note: We tested all modes & antennas, and the data presented in the appendix is the worst case.

END