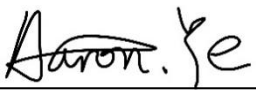
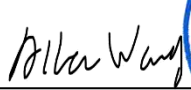


RF Exposure evaluation

Product Name : BYOM Wireless conference & collaboration System
Brand Name : N/A
Model : WMS42M
Series Model : WMS42, WP-24, WU-20 Lite, WMS22, WMS12
FCC ID : 2AWJK-WMS42M
Applicant : **Gastron Technology CO., LTD**
Address : 401 Building#B Dingxin Science and Technology Park,
Honglangbei #2 Road, Xin'an street, Baoan district, Shenzhen,
Guangdong Province, P.R.China
Manufacturer : **Gastron Technology CO., LTD**
Address : 401 Building#B Dingxin Science and Technology Park,
Honglangbei #2 Road, Xin'an street, Baoan district, Shenzhen,
Guangdong Province, P.R.China
Standard(s) : 47CFR §1.1310, 47CFR §2.1091
KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt : Aug. 14, 2025
Date of Test : Aug. 15, 2025~ Aug. 31, 2025
Issued Date : Sep. 01, 2025

Issued By: **Guangdong Asia Hongke Test Technology Limited**
B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street,
Bao'an District, Shenzhen, Guangdong, China
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Reviewed by: 
Aalen.Ye

Approved by: 
Allen Wang



Note: This device has been tested and found to comply with the standard(s) listed, this test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. This report shall not be reproduced except in full, without the written approval of Guangdong Asia Hongke Test Technology Limited. If there is a need to alter or revise this document, the right belongs to Guangdong Asia Hongke Test Technology Limited, and it should give a prior written notice of the revision document. This test report must not be used by the client to claim product endorsement.



Report Revise Record

Report Version	Issued Date	Notes
M1	Sep. 01, 2025	Initial Release

Contents

1	GENERAL INFORMATION	4
1.1	ENVIRONMENTAL CONDITIONS	4
1.2	GENERAL DESCRIPTION OF EUT	4
1.3	TEST FACILITY	6
1.4	MEASUREMENT UNCERTAINTY	6
2	METHOD OF MEASUREMENT	7
2.1	APPLICABLE STANDARD.....	7
2.2	LIMIT	7
2.3	MPE CALCULATION METHOD.....	8
2.4	ANTENNA INFORMATION	8
2.5	MANUFACTURING TOLERANCE.....	8
2.6	STANDALONE MPE RESULT	13
2.7	CONCLUSION.....	14

1 GENERAL INFORMATION

1.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

1.2 General Description of EUT

Product Name:	BYOM Wireless conference & collaboration System
Model/Type reference:	WMS42M
Serial Model:	WMS42, WP-24, WU-20 Lite, WMS22, WMS12
Model difference:	All models are same as the samples except model name, all the models are electrical identical same mechanical structure and design.
Power Supply:	DC 12V from adapter
Adapter Information:	Model: GQ36-1203000-AX Input: 100-240V~50/60Hz 1.0A Max Output: 12.0V~3.0A 36W
Hardware Version:	N/A
Software Version:	N/A
Bluetooth:	
Supported type:	Bluetooth BR/EDR
Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	External antenna
Antenna gain:	2.68dBi
Bluetooth LE:	
Supported type:	Bluetooth LE 1M/2M
Modulation:	GFSK
Operation frequency:	2402MHz~2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	External antenna
Antenna gain:	2.68dBi
2.4G WIFI:	
Supported type:	802.11b/g/n(HT20)/n(HT40)/ax(HE20)ax(HE40)
Modulation:	802.11b: DSSS 802.11g/n(HT20)/(HT40):OFDM

	802.11ax(HE20)/ax(HE40) :OFDMA			
Operation frequency:	802.11b/g/n(HT20)/ax(HE20): 2412MHz~2462MHz 802.11n(HT40)/ax(HE40):2422MHz~2452MHz			
Channel number:	802.11b/g/n(HT20)/ax(HE20): 11 802.11n(HT40)/ax(HE40):7			
Channel separation:	5MHz			
Antenna type:	External Antenna			
Antenna gain:	Module 1:(2.68dBi) Module 2:(Antenna 1: 2.68dBi, Antenna 2: 2.68dBi,Directional gain: 5.69dBi)			
5G WIFI:				
Supported type:	20MHz system	40MHz system	80MHz system	160MHz system
	802.11a 802.11n 802.11ac 802.11ax	802.11n 802.11ac 802.11ax	802.11ac 802.11ax	N/A
Operation frequency:	5180-5240MHz 5745-5825MHz	5190-5230MHz 5755-5795MHz	5210MHz 5775MHz	N/A
Modulation:	OFDM/OFDMA	OFDM/OFDMA	OFDM/OFDMA	N/A
Channel number:	9	4	2	N/A
Channel separation:	20MHz	40MHz	N/A	N/A
Antenna type:	External antenna			
Antenna gain:	Module 1:(UNII 1: 1.75dBi, UNII 3: 3.88dBi) Module 2:(Antenna 1: UNII 1: 1.75dBi, UNII 3: 3.88dBi; Antenna 2: UNII 1:1.75dBi, UNII 3: 3.88dBi; Directional gain: UNII 1: 4.76dBi, UNII 3: 6.89dBi)			
Remark: 1. The above DUT's information was declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. The device integrated to wireless module, module 1(BL-W8811CU2) support wireless protocol BT/BLE/802.11a/b/g/n/ac, module 2 (RTL822CS1) supports wireless protocol BT/BLE/802.11a/b/g/n/ac/ax.				

1.3 Test Facility

Test Laboratory:

Guangdong Asia Hongke Test Technology Limited

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

The test facility is recognized, certified or accredited by the following organizations:

FCC-Registration No.: 251906 Designation Number: CN1376

Guangdong Asia Hongke Test Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC —Registration No.: 31737 CAB identifier: CN0165

The 3m Semi-anechoic chamber of Guangdong Asia Hongke Test Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 31737

A2LA-Lab Cert. No.: 7133.01

Guangdong Asia Hongke Test Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

1.4 Measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Guangdong Asia Hongke Test Technology Limited's quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Asia Hongke laboratory is reported:

Test	Measurement Uncertainty	Notes
Power Line Conducted Emission	9KHz~30MHz ± 1.20 dB	(1)
Radiated Emission	9KHz~30MHz ± 3.10 dB	(1)
Radiated Emission	30MHz~1GHz ± 3.75 dB	(1)
Radiated Emission	1GHz~18GHz ± 3.88 dB	(1)
Radiated Emission	18GHz~40GHz ± 3.88 dB	(1)
RF power, conducted	30MHz~6GHz ± 0.16 dB	(1)
RF power density, conducted	± 0.24 dB	(1)
Spurious emissions, conducted	± 0.21 dB	(1)
Temperature	$\pm 1^{\circ}\text{C}$	(1)
Humidity	$\pm 3\%$	(1)
DC and low frequency voltages	$\pm 1.5\%$	(1)
Time	$\pm 2\%$	(1)
Duty cycle	$\pm 2\%$	(1)

The report uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty Multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

2 Method of measurement

2.1 Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

FCC KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures

2.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/f	4.89/f	(900/f)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 30	824/f	2.19/f	(180/f)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

2.3 MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

2.4 Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

Antenna	Model No. of antenna:	Type of antenna:	Gain of the antenna (Max.)	Frequency range:
WIFI/BT	/	External Antenna	2.4G: 2.68dBi(Max.) U-NII band 1: 1.75dBi(Max.), U-NII band 3: 3.88dBi(Max.)	2400-2500MHz 5150-5850MHz

2.5 Manufacturing Tolerance

Module 1(BL-W8811CU2)

Bluetooth

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	2.0	2.0	2.0
Tolerance ±(dB)	1.0	1.0	1.0
π/4DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	2.0	2.0	3.0
Tolerance ±(dB)	1.0	1.0	1.0
8-DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	2.0	2.0	3.0
Tolerance ±(dB)	1.0	1.0	1.0
BLE 1M GFSK			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	-1.0	-1.0	-1.0
Tolerance ±(dB)	1.0	1.0	1.0
BLE 2M GFSK			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	-2.0	-2.0	-2.0
Tolerance ±(dB)	1.0	1.0	1.0

2.4GHz WLAN

IEEE 802.11b (Peak)			
Frequency (MHz)	2412	2437	2462
Target (dBm)	14.0	14.0	14.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11g (Peak)			
Frequency (MHz)	2412	2437	2462
Target (dBm)	14.0	14.0	14.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Peak)			
Frequency (MHz)	2412	2437	2462

Target (dBm)	14.0	14.0	14.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Peak)			
Frequency (MHz)	2422	2437	2452
Target (dBm)	14.0	14.0	14.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

5GHz WLAN Band 1

IEEE 802.11a (Average)			
Frequency (MHz)	5180	5200	5240
Target (dBm)	8.0	8.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Frequency (MHz)	5180	5200	5240
Target (dBm)	8.0	8.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Frequency	5180	5200	5240
Target (dBm)	8.0	8.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Frequency (MHz)	5190	5230	
Target (dBm)	8.0	8.0	
Tolerance $\pm$ (dB)	1.0	1.0	
IEEE 802.11ac VHT40 (Average)			
Frequency (MHz)	5190	5230	
Target (dBm)	8.0	8.0	
Tolerance $\pm$ (dB)	1.0	1.0	
IEEE 802.11ac VHT80 (Average)			
Frequency (MHz)	5210		
Target (dBm)	8.0		
Tolerance $\pm$ (dB)	1.0		

5GHz WLAN Band 3

IEEE 802.11a (Average)			
Frequency (MHz)	5745	5785	5825
Target (dBm)	10.0	10.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Frequency (MHz)	5745	5785	5825
Target (dBm)	10.0	10.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Frequency	5745	5785	5825
Target (dBm)	10.0	10.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Frequency (MHz)	5755	5795	
Target (dBm)	10.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	
IEEE 802.11ac VHT40 (Average)			
Frequency (MHz)	5755	5795	
Target (dBm)	10.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	
IEEE 802.11ac VHT80 (Average)			
Frequency (MHz)	5755	5795	
Target (dBm)	10.0	10.0	

Tolerance $\pm$ (dB)	1.0	1.0
----------------------	-----	-----

Module 2(BL-M8852BS2)

Bluetooth

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	5.0	5.0	5.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
$\pi/4$ DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	5.0	5.0	6.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
8-DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	5.0	5.0	6.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
BLE 1M GFSK			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	2.0	2.0	2.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
BLE 2M GFSK			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	1.0	1.0	1.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

2.4GHz WLAN

IEEE 802.11b (Peak)						
Frequency (MHz)	Antenna 1			Antenna 2		
	2412	2437	2462	2412	2437	2462
Target (dBm)	15.0	15.0	15.0	16.0	16.0	16.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0	1.0	1.0	1.0
IEEE 802.11g (Peak)						
Frequency (MHz)	Antenna 1			Antenna 2		
	2412	2437	2462	2412	2437	2462
Target (dBm)	16.0	16.0	16.0	16.0	16.0	16.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0	1.0	1.0	1.0
IEEE 802.11n HT20 (Peak)						
Frequency (MHz)	Antenna 1			Antenna 2		
	2412	2437	2462	2412	2437	2462
Target (dBm)	16.0	15.0	15.0	16.0	15.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0	1.0	1.0	1.0
IEEE 802.11n HT40 (Peak)						
Frequency (MHz)	Antenna 1			Antenna 2		
	2422	2437	2452	2422	2437	2452
Target (dBm)	16.0	15.0	15.0	16.0	15.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0	1.0	1.0	1.0
IEEE 802.11ax HEW20 (Peak)						
Frequency (MHz)	Antenna 1			Antenna 2		
	2412	2437	2462	2412	2437	2462
Target (dBm)	16.0	16.0	16.0	16.0	16.0	16.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0	1.0	1.0	1.0
IEEE 802.11ax HEW40 (Peak)						
Frequency (MHz)	Antenna 1			Antenna 2		
	2422	2437	2452	2422	2437	2452
Target (dBm)	16.0	16.0	16.0	16.0	16.0	16.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0	1.0	1.0	1.0

5GHz WLAN Band 1

IEEE 802.11a (Average)						
Frequency (MHz)	Antenna 1			Antenna 2		
	5180	5200	5240	5180	5200	5240
Target (dBm)	7.0	7.0	7.0	6.0	7.0	7.0
Tolerance ± (dB)	1.0	1.0	1.0	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)						
Frequency (MHz)	Antenna 1			Antenna 2		
	5180	5200	5240	5180	5200	5240
Target (dBm)	8.0	8.0	8.0	6.0	6.0	7.0
Tolerance ± (dB)	1.0	1.0	1.0	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)						
Frequency (MHz)	Antenna 1			Antenna 2		
	5180	5200	5240	5180	5200	5240
Target (dBm)	9.0	9.0	8.0	6.0	7.0	7.0
Tolerance ± (dB)	1.0	1.0	1.0	1.0	1.0	1.0
IEEE 802.11ax HEW20 (Average)						
Frequency (MHz)	Antenna 1			Antenna 2		
	5180	5200	5240	5180	5200	5240
Target (dBm)	8.0	8.0	8.0	5.0	5.0	8.0
Tolerance ± (dB)	1.0	1.0	1.0	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)						
Frequency (MHz)	Antenna 1		Antenna 2			
	5190	5230	5190	5230		
Target (dBm)	9.0	9.0	8.0	8.0		
Tolerance ± (dB)	1.0	1.0	1.0	1.0		
IEEE 802.11ac VHT40 (Average)						
Frequency (MHz)	Antenna 1		Antenna 2			
	5190	5230	5190	5230		
Target (dBm)	7.0	10.0	5.0	9.0		
Tolerance ± (dB)	1.0	1.0	1.0	1.0		
IEEE 802.11ax HEW40 (Average)						
Frequency (MHz)	Antenna 1		Antenna 2			
	5190	5230	5190	5230		
Target (dBm)	9.0	9.0	8.0	8.0		
Tolerance ± (dB)	1.0	1.0	1.0	1.0		
IEEE 802.11ac VHT80 (Average)						
Frequency (MHz)	Antenna 1			Antenna 2		
	5210			5210		
Target (dBm)	9.0			8.0		
Tolerance ± (dB)	1.0			1.0		
IEEE 802.11ax HEW80 (Average)						
Frequency (MHz)	Antenna 1			Antenna 2		
	5210			5210		
Target (dBm)	9.0			8.0		
Tolerance ± (dB)	1.0			1.0		

5GHz WLAN Band 3

IEEE 802.11a (Average)						
Frequency (MHz)	Antenna 1			Antenna 2		
	5745	5785	5825	5745	5785	5825
Target (dBm)	8.0	8.0	7.0	9.0	9.0	7.0
Tolerance ± (dB)	1.0	1.0	1.0	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)						
Frequency (MHz)	Antenna 1			Antenna 2		
	5745	5785	5825	5745	5785	5825
Target (dBm)	9.0	9.0	9.0	6.0	8.0	8.0
Tolerance ± (dB)	1.0	1.0	1.0	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)						
Frequency (MHz)	Antenna 1			Antenna 2		
	5745	5785	5825	5745	5785	5825
Target (dBm)	9.0	9.0	9.0	8.0	8.0	8.0
Tolerance ± (dB)	1.0	1.0	1.0	1.0	1.0	1.0
IEEE 802.11ax HEW20 (Average)						
Frequency (MHz)	Antenna 1			Antenna 2		
	5745	5785	5825	5745	5785	5825
Target (dBm)	9.0	9.0	9.0	6.0	8.0	8.0
Tolerance ± (dB)	1.0	1.0	1.0	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)						
Frequency (MHz)	Antenna 1		Antenna 2			
	5755	5795	5755	5795		
Target (dBm)	9.0	9.0	8.0	8.0		
Tolerance ± (dB)	1.0	1.0	1.0	1.0		
IEEE 802.11ac VHT40 (Average)						
Frequency (MHz)	Antenna 1		Antenna 2			
	5755	5795	5755	5795		
Target (dBm)	9.0	9.0	7.0	8.0		
Tolerance ± (dB)	1.0	1.0	1.0	1.0		
IEEE 802.11ax HEW40 (Average)						
Frequency (MHz)	Antenna 1		Antenna 2			
	5755	5795	5755	5795		
Target (dBm)	10.0	10.0	8.0	8.0		
Tolerance ± (dB)	1.0	1.0	1.0	1.0		
IEEE 802.11ac VHT80 (Average)						
Frequency (MHz)	Antenna 1		Antenna 2			
	5775		5775			
Target (dBm)	8.0		7.0			
Tolerance ± (dB)	1.0		1.0			
IEEE 802.11ax HEW80 (Average)						
Frequency (MHz)	Antenna 1		Antenna 2			
	5775		5775			
Target (dBm)	8.0		7.0			
Tolerance ± (dB)	1.0		1.0			

2.6 Standalone MPE Result

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r=20\text{cm}$, as well as the gain of the used antenna is refer to section 2.4, the RF power density can be obtained.

Module 1(BL-W8811CU2)

Modulation Type	Output power with tune_up		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	Ratio
	dBm	mW					
BT	4.0	2.5119	2.68	1.8535	0.00093	1.0000	0.0009
2.4G WLAN	15.0	31.6228	2.68	1.8535	0.0117	1.0000	0.0117
5G WLAN (UNII band 1)	9.0	7.9433	1.75	1.4962	0.0024	1.0000	0.0024
5G WLAN (UNII band 3)	11.00	12.5893	3.88	2.4434	0.0061	1.0000	0.0061

Module 2(BL-M8852BS2) Antenna 1

Modulation Type	Output power with tune_up		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	Ratio
	dBm	mW					
BT	7.0	5.0119	2.68	1.8535	0.00185	1.0000	0.0019
2.4G WLAN	17.0	50.1187	2.68	1.8535	0.0185	1.0000	0.0185
5G WLAN (UNII band 1)	11.0	12.5893	1.75	1.4962	0.0037	1.0000	0.0037
5G WLAN (UNII band 3)	11.0	12.5893	3.88	2.4434	0.0061	1.0000	0.0061

Module 2(BL-M8852BS2) Antenna 2

Modulation Type	Output power with tune_up		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)	Ratio
	dBm	mW					
2.4G WLAN	17.0	50.1187	2.68	1.8535	0.0185	1.0000	0.0185
5G WLAN (UNII band 1)	10.0	10.0000	1.75	1.4962	0.0030	1.0000	0.0030
5G WLAN (UNII band 3)	10.0	10.0000	3.88	2.4434	0.0049	1.0000	0.0049

Remark:

1. Output power including turn-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer.

simultaneous transmission Evaluation

In order to ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is.

$$\sum_{i=1}^n \frac{S_i}{MPE_i} \leq 1$$

The product also has multiple transmitters The Simultaneous Transmission Possibilities are as below:

Simultaneous Tx Combination	Configuration
1	Module 1 BT/WWAN + Module 2 BT/WWAN antenna 1+ Module 2 WWAN antenna 2

Mode	Max.Result Ratio module1	Max.Result Ratio module2 antenna 1	Max.Result Ratio module2 antenna 2	Total Ratio	Limit	Limit Result
Bluetooth	0.0009	0.0019	--	0.0431	1.0	Pass
WLAN2.4GHz	0.0117	0.0185	0.0185			
WLAN5GHz	0.0061	0.0061	0.0049			

2.7 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

***** End of Report *****