



中国认可 国际互认 检测 TESTING CNAS L16091

> No.: FCCSZ2024-0030-RF1

## **TEST REPORT**

FCC ID	:	2ANM3U8822C2
NAME OF SAMPLE	:	WiFi + BT Module
APPLICANT	:	Shenzhen Chuangwei-RGB Electronics Co., Ltd.
CLASSIFICATION OF TEST	:	N/A

CVC Testing Technology (Shenzhen) Co., Ltd.



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		Name: Shenzhen Chuangwei-RGB Electronics Co., Ltd.					
Applicant		Address: 13F-16F, Unit A, Skyworth Building, Shennan Road South, Nanshan District, Shenzhen, Guangdong, China					
		Name: Wil	Fi + E	BT Module			
		Model/Typ	e: U8	3822C2			
=							
Equipment Un	Brand: N/	4					
	Serial NO.	: N/A					
		Sample N	0.: 4	-2			
Date of Receipt.	4-22		Date of Testing	2024-04-22 $\sim$ 2024-0	)5-20		
Tes	t Specification				Test Result		
FCC Part 15, S	Subpart C, Sec	ion 15.247 PASS		PASS			
		The e	quipr	nent under test was	s found to comply with t	the	
		requiremen	its of	the standards appl	ied.		
Evaluation of Test	Result						
					Seal of CVC		
		Issue Date: 2024-05-21					
Compiled by:		Reviewed by:			Approved by:		
Zhn Yulon			1.	Viadiao	A		
		0	NO,	Xianbiao	YVID		
Zhu Yulin Name	l Signature			ianbiao	Dong Sanbi		
Other Aspects: N	0	Name	•	Signature	Name Signatu	ire	
-							
Abbreviations:OK, Pass	= passed	Fail = failed	N/A	A= not applicable	EUT= equipment, sample(s) under tes	sted	

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



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### **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
FCCSZ2024-0030-RF1	Original release	2024-05-21	

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### **1 SUMMARY OF TEST RESULTS**

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15 Subpart C								
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK					
FCC Part 15.207	AC Power Conducted Emission	PASS	See section 3.1					
FCC Part 15.247(d) FCC Part 15.205	Radiated Emission and Restricted bands Measurements	PASS	See section 3.2					
FCC Part 15.247(d)	Out of band Emission and Band edge measurements	PASS	Appendix E and F of FCCSZ2024-0030-RF1-A1&A2					
FCC Part 15.247(a)(2)	6dB Bandwidth Measurement	PASS	Appendix A of FCCSZ2024-0030-RF1-A1&A2					
	Occupied Channel Bandwidth	N/A	Appendix B of FCCSZ2024-0030-RF1-A1&A2 (For reference)					
FCC Part 15.247(b)	Conducted Output power	PASS	Appendix C of FCCSZ2024-0030-RF1-A1&A2					
FCC Part 15.247(e)	Power Spectral Density	PASS	Appendix D of FCCSZ2024-0030-RF1-A1&A2					
FCC Part 15.203 FCC Part 15.247(b)	Antenna Requirement	PASS	See section 3.8					

### 1.1 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab of CVC Testing Technology (Shenzhen) Co., Ltd.

Address: No. 1301-14&16, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China

Post Code:518110Tel:0755-23763060-8805Fax:0755-23763060E-mail:sz-kf@cvc.org.cnFCC(Test firm designation number:CN1363)IC(Test firm CAB identifier number:CN0137)CNAS(Test firm designation number:L16091)

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### 1.2 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
Antenna Port Conducted Test					
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 30	104408	1 year	2025/4/28
#3Shielding room	MORI	443	N/A	3 year	2026/5/16
Wideband radio communication		01/11/ 500	400770	•	0005/5/04
tester	Rohde&Schwarz	CMW 500	168778	1 year	2025/5/24
Analog signal Generator (100kHz ~ 40GHz)	Rohde&Schwarz	SMB 100A	181934	1 year	2025/4/27
Vector signal Generator (9kHz ~ 6GHz)	Rohde&Schwarz	SGT 100A	111724	1 year	2025/4/27
RF control unit(BT/WiFi)	Tonscend	JS0806-2-8CH	20E8060261	1 year	2025/4/28
Temperature and humidity meter	/	C193561457	C193561457	1 year	2025/4/27
Radiation Spurious Test - 3M Cha	mber #2				
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 40	101898	1 year	2025/4/28
EMI Test Receiver	Rohde&Schwarz	ESR3	102693	1 year	2025/4/28
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB 9168	1133	1 year	2025/2/20
Horn antenna(1GHz-18GHz)	ETS	3117	227611	1 year	2025/2/4
Horn antenna(18GHz-40GHz)	QMS	QMS-00880	22051	1 year	2025/3/24
3m anechoic chamber	MORI	966	CS0300011	3 year	2026/5/18
Filter group(RSE-BT/WiFi)	Rohde&Schwarz	WiFi /BT Variant 1	100820	1 year	2025/4/28
Filter group(RSE-Cellular)	Rohde&Schwarz	Cellular Variant 1	100768	1 year	2025/4/28
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100299	1 year	2025/4/28
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2025/4/28
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100801	1 year	2025/4/28
Preamplifier(18Gz-40GHz)	Rohde&Schwarz	SCU-40A	101209	1 year	2025/4/28
Temperature and humidity meter	/	C193561517	C193561517	1 year	2025/4/27
Radiation Spurious Test - 3M Cha	, mber #1	0100001011	0100001011	- your	2020/1/21
EMI Test Receiver	Rohde&Schwarz	ESR 26	101718	1 year	2025/5/24
Antenna(30MHz~1000MHz)	SCHWARZBECK		01132	1 year	2025/5/27
Horn antenna(1GHz-18GHz)	ETS	3117	227634	1 year	2025/3/25
Horn antenna(18GHz-40GHz)	SCHWARZBECK		01003	1 year	2025/3/25
3m anechoic chamber	MORI	966	CS0200019	3 year	2026/5/18
LISN (single-phase )	Rohde&Schwarz	ESH3-Z6	102152/102156	1 year	2025/4/27
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100298	1 year	2025/4/28
Attenuator	1	SJ-5dB	607684	1 year	2025/2/4
#1 control room	MORI	433	CS0300028	3 year	2026/5/17
Temperature and humidity meter	UNI-T	A10T	C193561473	1 year	2025/4/27
Conducted emission					
EMI Test Receiver	Rohde&Schwarz	ESR3	102693	1 year	2025/5/24
limiter (10 dB)	Rohde&Schwarz	ESH3-Z2	102824	1 year	2025/5/15
Voltage probe	Rohde&Schwarz	CVP9222C	28	1 year	2025/4/27
Current probe	Rohde&Schwarz	EZ-17	101442	1 year	2025/4/28
ISN network	Rohde&Schwarz		100401	1 year	2025/4/28
ISN network	Rohde&Schwarz	ENV 81 Cat6	101896	1 year	2025/4/28
#1Shielding room	MORI	854	N/A	3 year	2023/4/28
LISN	SCHWARZBECK		5021	1 year	2025/4/27
Temperature and humidity meter		C193561430	C193561430	1 year	2025/4/27

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### **1.3 MEASUREMENT UNCERTAINTY**

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

No.	Item	Measurement Uncertainty					
1	Occupied Channel Bandwidth	±1.86 %					
2	RF output power, conducted	±0.9 dB					
3	Power Spectral Density, conducted	±0.8 dB					
4	Conducted emission test	+/-2.7 dB					
	Radiated emission 9kHz-30MHz	+/-5.6 dB					
5	Radiated emission 30MHz-1GHz	+/-4.6 dB					
5	Radiated emission 1GHz-18GHz	+/-4.4 dB					
	Radiated emission 18GHz-40GHz	+/-5.1 dB					
6	Temperature	±0.73 °C					
7	Humidity	±3.90 %					
8	Supply voltages	±0.37 %					
9	Time ±0.27 %						
Remar	k: 95% Confidence Levels, k=2.						

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed.

The measurement uncertainty is mentioned in this test report, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.

measured value, measurement uncertainty, verdict

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### **2 GENERAL INFORMATION**

### 2.1 GENERAL PRODUCT INFORMATION

PRODUCT				
PRODUCT	WiFi + BT Module			
BRAND	N/A			
TEST MODEL	U8822C2			
POWER SUPPLY	DC 3.3V from host unit			
MODULATIONTECHNOLOGY	DSSS, OFDM, DTS			
	CCK, DQPSK, DBPSK for DSSS			
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK for OFDM			
	GFSK for DTS			
	2412MHz ~ 2462MHz for 11b/g/n(HT20)			
OPERATING FREQUENCY	2422MHz ~ 2452MHz for 11n(HT40)			
	2402MHz ~ 2480MHz for BT-LE			
	802.11b/g/n (HT20): 11			
NUMBER OF CHANNEL	802.11n (HT40): 9			
	BT-LE GFSK (1Mbps/2Mbps): 40			
PEAK OUTPUT POWER	WLAN: 15.84dBm (Maximum)			
PEAR OUTPUT POWER	BT-LE: 4.11dBm (Maximum)			
	WLAN 2.4G:			
ANTENNA TYPE AND GAIN	ANT1: PIFA Antenna, with 2.19dBi gain			
(Remark 4/5)	ANT2: PIFA Antenna, with 2.28dBi gain			
	BT-LE:			
	ANT3: FPC Antenna, with 3.56dBi gain			
HARDWARE VERSION:	N012403-001013-001_VER00.01			
SOFTWARE VERSION:	Win7_MP_Kit_RTL11ac_8822CU_USB_v13.00_20221115			
	WLAN: MPTool			
FIX FREQUENCY SOFTWARE	BT-LE: Bluetooth RF Test Tool			
I/O PORTS	Refer to user's manual			
CABLE SUPPLIED	N/A			

Remark:

- 1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 3. Please refer to the EUT photo document for detailed product photo. (Report NO.: FCCSZ2024-0030-EUT)
- 4. Please refer to the antenna report.
- 5. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- 6. The EUT have MIMO function, provides 2 completed transmitter and 2 receiver.

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### 2.2 OPERATING FREQUENCY OF EACH CHANNEL

			2.4G	WIFI			
			802.11b/	g/n (HT20)			
CHANNEL FREQ. (MHz)		. (MHz)	CHANNEL	FREQ. (MH	lz) CHA	NNEL	FREQ. (MHz)
1	24	12	5	2432		9	2452
2	24	17	6	2437		10	2457
3	24	22	7	2442		11	2462
4	24	27	8	2447			
			802.11	n (HT40)			
CHANNEL	- FREQ	. (MHz)	CHANNEL	FREQ. (MH	lz) CHA	NNEL	FREQ. (MHz)
3	24	22	6	2437		9	2452
4	24	27	7	2442			
5	24	32	8	2447			
				bps/2Mbps)			
CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEI	L FREQ. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

1. The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.

2. By means of test software which provided by manufacture, the power levels during the tests were set

802.	11b	802.11g		802.11g 802.11n(HT20)		802.11n(HT40)		BT-LE 1M&2M	
FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING
2412	65	2412	30	2412	30	2412	30	2402	5
2437	65	2437	30	2437	30	2437	30	2440	5
2462	65	2462	30	2462	30	2462	30	2480	5

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### 2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, xyz axis and antenna ports

EUT	APF	LICABLE	TEST ITE	EMS				
CONFIGURE MODE	RE<1G	RE≥1G	PLC	АРСМ	DESCRIPTION			
А	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	2.4G WIFI Function			
В					BT Function			

Where **RE < 1G:** Radiated Emission below 1GHz **PLC:** Power Line Conducted Emission **RE** ≥ **1G**: Radiated Emission above 1GHz **APCM**: Antenna Port Conducted Measurement

### RADIATED EMISSION TEST (BELOW 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- The worst case was found when positioned on x axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
А	802.11b CDD	1 to 11	1	DSSS	DBPSK	1.0

For the test results, only the worst case was shown in test report.

#### POWER LINE CONDUCTED EMISSION TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CONDITION
	WIFI (2.4G) + BT-LE Link

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### RADIATED EMISSION TEST (ABOVE 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- The worst case was found when positioned on x axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
А	802.11b ANT1	1 to 11	1, 6, 11	DSSS	DBPSK	1.0 Mbps
А	802.11b ANT2	1 to 11	1, 6, 11	DSSS	DBPSK	1.0 Mbps
А	802.11b CDD	1 to 11	1, 6, 11	DSSS	DBPSK	1.0 Mbps
А	802.11g ANT1	1 to 11	1, 6, 11	OFDM	BPSK	6.0 Mbps
А	802.11g ANT2	1 to 11	1, 6, 11	OFDM	BPSK	6.0 Mbps
А	802.11g CDD	1 to 11	1, 6, 11	OFDM	BPSK	6.0 Mbps
А	802.11n(HT20) ANT1	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
А	802.11n(HT20) ANT2	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
А	802.11n(HT20) MIMO	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
А	802.11n (HT40) ANT1	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
А	802.11n (HT40) ANT2	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
А	802.11n (HT40) MIMO	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
В	BT-LE	0 to 39	0,19, 39	DTS	GFSK	1.0 Mbps
В	BT-LE	0 to 39	0,19, 39	DTS	GFSK	2.0 Mbps

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### ANTENNA PORT CONDUCTED MEASUREMENT:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
А	802.11b CDD	1 to 11	1, 6, 11	DSSS	DBPSK	1.0 Mbps
А	802.11g CDD	1 to 11	1, 6, 11	OFDM	BPSK	6.0 Mbps
А	802.11n(HT20) MIMO	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
А	802.11n (HT40) MIMO	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
В	BT-LE	0 to 39	0,19, 39	DTS	GFSK	1.0 Mbps
В	BT-LE	0 to 39	0,19, 39	DTS	GFSK	2.0 Mbps

#### **TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RSE<1G	25.2deg. C, 57%RH	DC 3.3V from host unit	Liu Yuan
RSE≥1G	25.2deg. C, 57%RH	DC 3.3V from host unit	Liu Yuan
PLC	25.2deg. C, 57%RH	DC 3.3V from host unit	Zhou Ye
APCM	25.2deg. C, 57%RH	DC 3.3V from host unit	Zhu Yulin

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### 2.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC PART 15, Subpart C. Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02 KDB 662911 D01 Multiple Transmitter Output v02r01 ANSI C63.10-2013

All test items have been performed and recorded as per the above standards

### 2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

				Su	рр	ort Equipmen	t				
NO	Description	ı	Brand			Model No.		Serial Number			Supplied by
1	Notebook		Len	ονο		T430		N/A	<b>\</b>		Lab
2	Notebook		Н	Р	Z	HAN 66 PRO 14	4	N/A	<b>\</b>		Lab
3	Debug board	b	N/A		N/A E321345 N/A			Lab			
				:	Su	pport Cable	_				
NO	Description		uantity umber)	Length (cm)	ו	Detachable (Yes/ No)		Shielded (Yes/ No)	Core (Numb	-	Supplied by
1	N/A		N/A	N/A		N/A		N/A	N/A		N/A

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### **3 TEST TYPES AND RESULTS**

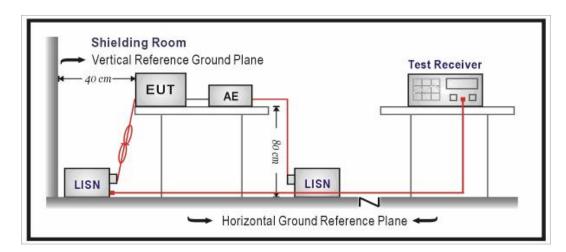
### 3.1 CONDUCTED EMISSION MEASUREMENT

### 3.1.1 Limit

Frequency	Conducted Limits(dBµV)					
(MHz)	Quasi-peak	Average				
0.15 - 0.5	66 to 56 $^{*}$	56 to 46*				
0.5 - 5	56	46				
5 - 30	60	50				
	II apply at the transition frequencies. s in line with the logarithm of the frequen	icy in the range of 0.15 to 0.50MHz.				

### 3.1.2 Measurement procedure

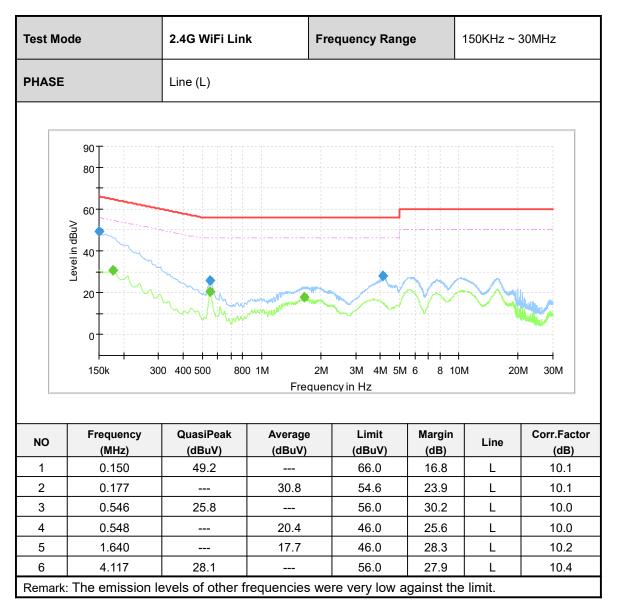
- a. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the Test photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. The equipment under test shall be placed on a support of non-metallic material, the height of which shall be1.5m above the ground,
- b. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- c. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.



### 3.1.3 Test setup

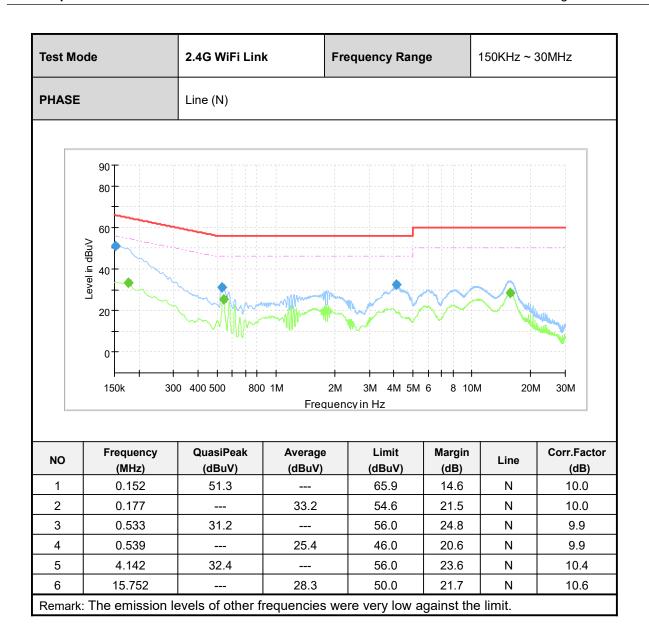
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### 3.1.4 Test results



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### 3.2 RADIATED EMISSION AND RESTRICTED BANDS MEASUREMENTS

### 3.2.1 Limit

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

FREQUENCIES (MHz)	FIELD STRENGTH (Microvolts/Meter)	MEASUREMENT DISTANCE (Meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3
NOTE: 1. The lower limit sha	Il apply at the transition frequencies.	1

NOTE: 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

NOTE: 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

### 3.2.2 Measurement procedure

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f.For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- g. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.



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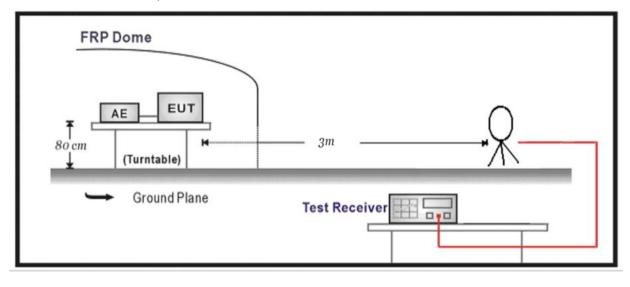
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#### NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.
- 5. The testing of the EUT was performed on all 3 orthogonal axes; the worst-case test configuration was reported on the file test setup photo.

### 3.2.3 Test setup

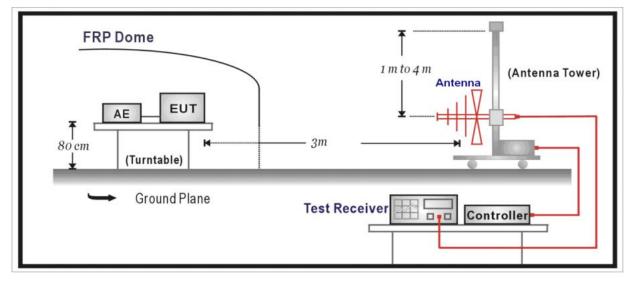
Below 30MHz Test Setup:



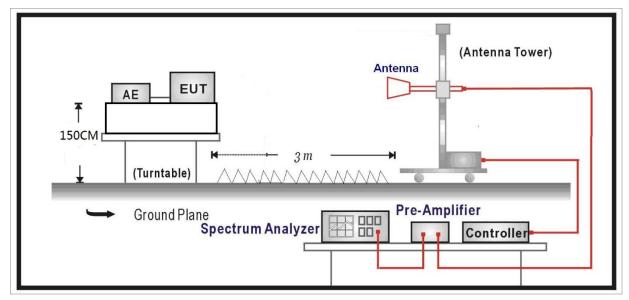
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Below 1GHz Test Setup:



Above 1GHz Test Setup:





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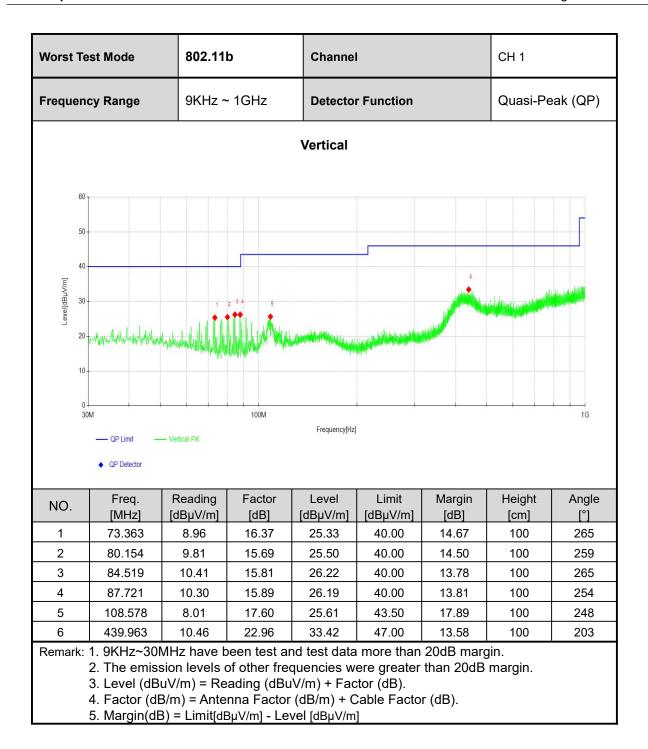
### 3.2.4 Test results

### BELOW 1GHz WORST-CASE DATA

Worst To	est Mode	802.11	b	Chann	el		CH 1	
Frequen	icy Range	9KHz ~	- 1GHz	Detect	or Function	Quasi-Pe	ak (QP)	
			ŀ	Horizontal	I			
60	)- -							
50	)							
40 Ej	)		1			4 5	6	(
Level[dBµV/m] 3	)				2 3	. Children and a state		<b>Yana</b>
20	·	and while the last	LL W	destation of the second				
10	)	and the second sec	lateled		•••••			
(	)							
\$	30M QP Limit	Horizontal PK	100M	Frequency[Hz]				1G
	QP Detector	The second se						
	Freq.	Reading	Factor	Level	Limit	Margin	Height	Angle
NO.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]
1	109.839	13.02	17.72	30.74	43.50	12.76	100	49
2	249.630	9.37	18.66	28.03	47.00	18.97	100	360
3	296.486	6.95	19.74	26.69	47.00	20.31	100	44
4	379.720	11.52	21.53	33.05	47.00	13.95	100	6
5	478.864	10.15	23.80	33.95	47.00	13.05	100	83
6	800.548	9.32	28.54	37.86	47.00	9.14	100	196
Remark:	<ol> <li>9KHz~30N</li> <li>The emission</li> <li>Level (dBusical)</li> </ol>	ion levels ( V/m) = Re	of other freq ading (dBu\	uencies w //m) + Fac	ere greater tor (dB).	than 20dB		
	4. Factor (dB 5. Margin(dB					r (dB).		

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### ABOVE 1GHz DATA

All modes have been tested, and the worst-case was recorded in this report.

Channel		802.11b CH	11	Frequency		2412MHz	
Frequenc	cy Range	Above 1G		Detector Func	tion	PK/AV	
			Но	rizontal			
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/n	Margin n] [dB]	Detector
1	2382.33	52.03	-0.26	51.77	74.00	22.23	PK
2	2387.25	42.01	-0.19	41.82	54.00	12.18	AV
3	2390.00	40.85	-0.15	40.70	54.00	13.30	AV
4	2390.00	52.02	-0.15	51.87	74.00	22.13	PK
5	2410.63	95.01	0.14	95.15			AV
6	2413.23	102.40	0.17	102.57			PK
7	4824.00	42.65	9.68	52.33	74.00	21.67	PK
8	4824.00	34.89	9.68	44.57	54.00	9.43	AV
9	7236.00	27.38	12.39	39.77	74.00	34.23	PK
10	7236.00	19.73	12.39	32.12	54.00	21.88	AV
11	9648.00	27.85	13.13	40.98	74.00	33.02	PK
12	9648.00	20.07	13.13	33.20	54.00	20.80	AV
			V	ertical			
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/n	Margin n] [dB]	Detector
1	2359.84	40.45	0.07	40.52	54.00	13.48	AV
2	2360.44	50.99	0.05	51.04	74.00	22.96	PK
3	2390.00	48.83	-0.15	48.68	74.00	25.32	PK
4	2390.00	39.76	-0.15	39.61	54.00	14.39	AV
5	2410.91	84.53	0.14	84.67			AV
6	2413.51	92.32	0.17	92.49			PK
7	4824.00	42.63	9.68	52.31	74.00	21.69	PK
8	4824.00	34.37	9.68	44.05	54.00	9.95	AV
9	7236.00	27.51	12.39	39.90	74.00	34.10	PK
10	7236.00	20.32	12.39	32.71	54.00	21.29	AV
11	9648.00	27.22	13.13	40.35	74.00	33.65	PK
12	9648.00	19.33	13.13	32.46	54.00	21.54	AV
:	1. The emissior 2. Level (dBuV/ 3. Factor (dB/m 4. Margin(dB) =	n levels of oth (m) = Readin n) = Antenna	ner frequei g (dBuV/n Factor (dE	ncies were grea ı) + Factor (dB) ß/m) + Cable Fa	ater than 2 ).	20dB margin.	



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Channel	el 802.11b CH 6 Frequency				24	37MHz				
Frequenc	cy Range	Above 1G		Detector Function			PK	PK/AV		
			Но	riz	ontal					
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]		Level [dBµV/m]	Limit [dBµV/r	n]	Margin [dB]	Detector	
1	4874.00	34.25	9.71		43.96	54.00		10.04	AV	
2	4874.00	41.17	9.71		50.88	74.00		23.12	PK	
3	7311.00	20.59	11.03		31.62	54.00		22.38	AV	
4	7311.00	28.08	11.03		39.11	74.00		34.89	PK	
5	9748.00	18.55	13.24		31.79	54.00		22.21	AV	
6	9748.00	27.04	13.24		40.28	74.00		33.72	PK	
			v	ert	ical					
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]		Level [dBµV/m]	Limit [dBµV/r	n]	Margin [dB]	Detector	
1	4874.00	34.74	9.71		44.45	54.00		9.55	AV	
2	4874.00	42.03	9.71		51.74	74.00		22.26	PK	
3	7311.00	20.81	11.03		31.84	54.00		22.16	AV	
4	7311.00	28.09	11.03		39.12	74.00		34.88	PK	
5	9748.00	19.15	13.24		32.39	54.00		21.61	AV	
6	9748.00	26.89	13.24		40.13	74.00		33.87	PK	
	1. The emissior 2. Level (dBuV/ 3. Factor (dB/m 4. Margin(dB) =	/m) = Readin ı) = Antenna	g (dBuV/n Factor (dE	n) - 3/m	+ Factor (dB) 1) + Cable Fa	).		B margin.		

# (CVC)

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Frequency			111	Frequency	uency 2462MHz			
	y Range	Above 1G		Detector Func	tion	PK/AV		
			Но	rizontal				
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m	Margin ] [dB]	Detector	
1	2461.30	97.03	0.60	97.63			AV	
2	2463.47	104.04	0.66	104.70			PK	
3	2483.50	50.32	0.45	50.77	74.00	23.23	PK	
4	2483.50	41.69	0.45	42.14	54.00	11.86	AV	
5	2484.44	42.75	0.50	43.25	54.00	10.75	AV	
6	2484.54	52.00	0.50	52.50	74.00	21.50	PK	
7	4824.00	34.84	9.68	44.52	54.00	9.48	AV	
8	4824.00	42.70	9.68	52.38	74.00	21.62	PK	
9	7236.00	28.53	12.39	40.92	74.00	33.08	PK	
10	7236.00	19.88	12.39	32.27	54.00	21.73	AV	
11	9648.00	19.17	13.13	32.30	54.00	21.70	AV	
12	9648.00	28.98	13.13	42.11	74.00	31.89	PK	
			V	ertical				
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m	Margin ] [dB]	Detector	
1	2462.69	86.52	0.64	87.16			AV	
2	2463.40	93.58	0.66	94.24			PK	
3	2483.50	37.62	0.45	38.07	54.00	15.93	AV	
4	2483.50	45.02	0.45	45.47	74.00	28.53	PK	
5	2484.05	38.47	0.48	38.95	54.00	15.05	AV	
6	2485.01	48.55	0.52	49.07	74.00	24.93	PK	
7	4924.00	41.80	10.14	51.94	74.00	22.06	PK	
8	4924.00	33.52	10.14	43.66	54.00	10.34	AV	
9	7386.00	20.94	9.80	30.74	54.00	23.26	AV	
10	7386.00	29.23	9.80	39.03	74.00	34.97	PK	
	0040.00	27.23	13.24	40.47	74.00	33.53	PK	
10	9848.00				54.00			

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Channel		BT-LE(1Mb	ops) CH0	Frequency		2402MHz	
Frequen	cy Range	Above 1G		Detector Fun	ction	PK/AV	
			Hori	zontal			
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m	Margin ] [dB]	Detector
1	2384.55	50.33	-1.45	48.88	74.00	25.12	PK
2	2385.58	40.40	-1.44	38.96	54.00	15.04	AV
3	2390.00	39.16	-1.37	37.79	54.00	16.21	AV
4	2390.00	48.27	-1.37	46.90	74.00	27.10	PK
5	2401.99	98.42	-1.26	97.16			PK
6	2402.04	97.66	-1.26	96.40			AV
7	4804.00	41.82	9.19	51.01	74.00	22.99	PK
8	4804.00	34.08	9.19	43.27	54.00	10.73	AV
9	7206.00	27.42	14.32	41.74	74.00	32.26	PK
10	7206.00	19.47	14.32	33.79	54.00	20.21	AV
11	9608.00	28.54	14.44	42.98	74.00	31.02	PK
12	9608.00	18.91	14.44	33.35	54.00	20.65	AV
			Ve	rtical			
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m	Margin ] [dB]	Detector
1	2382.79	50.64	-1.48	49.16	74.00	24.84	PK
2	2388.32	40.42	-1.39	39.03	54.00	14.97	AV
3	2390.00	48.70	-1.37	47.33	74.00	26.67	PK
4	2390.00	39.63	-1.37	38.26	54.00	15.74	AV
5	2402.00	87.73	-1.26	86.47			PK
5 6	2402.00 2402.00	87.73 87.34	-1.26 -1.26	86.47 86.08			PK AV
					74.00	22.91	
6	2402.00	87.34	-1.26	86.08	74.00 54.00	22.91 10.88	AV
6 7	2402.00 4804.00	87.34 41.90	-1.26 9.19	86.08 51.09			AV PK
6 7 8	2402.00 4804.00 4804.00	87.34 41.90 33.93	-1.26 9.19 9.19	86.08 51.09 43.12	54.00	10.88	AV PK AV
6 7 8 9	2402.00 4804.00 4804.00 7206.00	87.34 41.90 33.93 19.44	-1.26 9.19 9.19 14.32	86.08 51.09 43.12 33.76	54.00 54.00	10.88 20.24	AV PK AV AV

All modes have been tested, and the worst-case was recorded in this report.



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Channel		BT-LE(1Mbps) CH19		Frequency		2440MHz			
Frequency Range		Above 1G		Detector Function		PK/AV			
Horizontal									
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector		
1	4880.00	46.41	9.75	56.16	74.00	17.84	PK		
2	4880.00	41.11	9.75	50.86	54.00	3.14	AV		
3	7320.00	25.20	12.66	37.86	54.00	16.14	AV		
4	7320.00	31.33	12.66	43.99	74.00	30.01	PK		
5	9760.00	29.20	14.77	43.97	74.00	30.03	PK		
6	9760.00	20.71	14.77	35.48	54.00	18.52	AV		
Vertical									
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector		
1	4880.00	45.30	9.75	55.05	74.00	18.95	PK		
2	4880.00	39.69	9.75	49.44	54.00	4.56	AV		
3	7320.00	24.15	12.66	36.81	54.00	17.19	AV		
4	7320.00	31.23	12.66	43.89	74.00	30.11	PK		
5	9760.00	30.42	14.77	45.19	74.00	28.81	PK		
6	9760.00	23.45	14.77	38.22	54.00	15.78	AV		
<ul> <li>Remark: 1. The emission levels of other frequencies were greater than 20dB margin.</li> <li>2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).</li> <li>3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).</li> <li>4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]</li> </ul>									

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Channel Frequency Range		BT-LE(1Mbps) CH39 Above 1G		Frequency Detector Function		2480MHz PK/AV		
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/r	n]	Margin [dB]	Detector
1	2479.79	102.46	-1.30	101.16				AV
2	2479.96	103.11	-1.31	101.80				PK
3	2483.50	39.07	-1.15	37.92	54.00		16.08	AV
4	2483.50	46.23	-1.15	45.08	74.00		28.92	PK
5	2486.23	39.61	-1.02	38.59	54.00		15.41	AV
6	2486.47	47.98	-1.01	46.97	74.00		27.03	PK
7	4960.00	41.82	10.78	52.60	74.00		21.40	PK
8	4960.00	33.62	10.78	44.40	54.00		9.60	AV
9	7440.00	20.17	11.55	31.72	54.00		22.28	AV
10	7440.00	28.80	11.55	40.35	74.00		33.65	PK
11	9920.00	27.55	15.37	42.92	74.00		31.08	PK
12	9920.00	18.98	15.37	34.35	54.00		19.65	AV
			Ver	tical				
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/r	n]	Margin [dB]	Detector
1	2479.95	92.20	-1.31	90.89				AV
2	2480.02	92.57	-1.31	91.26				PK
3	2483.50	43.78	-1.15	42.63	74.00		31.37	PK
4	2483.50	36.75	-1.15	35.60	54.00		18.40	AV
5	2484.14	46.84	-1.12	45.72	74.00		28.28	PK
6	2486.64	37.99	-1.00	36.99	54.00		17.01	AV
7	4960.00	41.40	10.78	52.18	74.00		21.82	PK
8	4960.00	34.08	10.78	44.86	54.00		9.14	AV
U	7440.00	20.66	11.55	32.21	54.00		21.79	AV
о 9			11.55	39.58	74.00		34.42	PK
	7440.00	28.03	11.55					
9	7440.00 9920.00	28.03 27.49	15.37	42.86	74.00		31.14	PK



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### 3.3 6dB BANDWIDTH MEASUREMENT

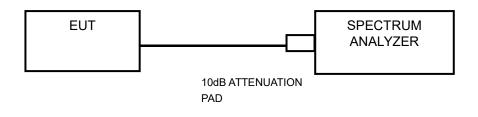
### 3.3.1 Limits

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

### 3.3.2 Measurement procedure

- a. Set resolution bandwidth (RBW) = 100KHz
- b. Set the video bandwidth (VBW)  $\ge$  3 x RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 3.3.3 Test setup





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### 3.4 CONDUCTED OUTPUT POWER

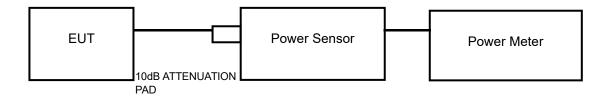
### 3.4.1 Limits

Forsystems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm).

#### 3.4.2 Measurement procedure

- a. A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor and set the detector to PEAK. Record the power level.
- b. Anaverage power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power senso and set the detector to AVERAGE. Record the power level.

### 3.4.3 Test setup



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### 3.5 POWER SPECTRAL DENSITY MEASUREMENT

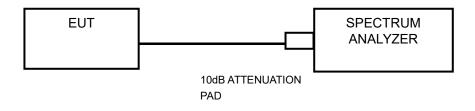
### 3.5.1 Limits

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

### 3.5.2 Measurement procedure

- a. Set instrument center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set RBW to: 3KHz
- d. Set VBW ≥3 x RBW.
- e. Detector = peak
- f.Ensure that the number of measurement points in the sweep  $\ge 2 \times \text{span/RBW}$ .
- g. Sweep time = auto couple.
- h. Use the peak marker function to determine the maximum amplitude level.

### 3.5.3 Test setup



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### 3.6 OUT OF BAND EMISSION AND BAND EDGE MEASUREMENTS

### 3.6.1 Limits

Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 3.6.2 Measurement procedure

#### **Measurement Procedure -Reference Level**

- a. Set the RBW = 100 kHz.
- b. Set the VBW  $\ge$  300 kHz.
- c. Detector = peak.
- d. Sweep time = auto couple.
- e. Trace mode = max hold.
- f.Allow trace to fully stabilize.
- g. Use the peak marker function to determine the maximum power level in any 100 kHzband segment within the fundamental EBW.

### Measurement Procedure –Unwanted Emission Level

- a. Set RBW = 100 kHz.
- b. Set VBW  $\ge$  300 kHz.
- c. Set span to encompass the spectrum to be examined
- d. Detector = peak.
- e. Trace Mode = max hold.
- f.Sweep = auto couple.

### 3.6.3 Test setup





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### 3.7 OCCUPIED BANDWIDTH MEASUREMENT

### 3.7.1 Measurement procedure

The transmitter antenna output was connected to the spectrum analyzer through an attenuator. The resolution bandwidth shall be set to the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.

below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

### 3.7.2 Test setup





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### 3.8 ANTENNA REQUIREMENT

### 3.8.1 LIMITS OF ANTENNA REQUIREMENT

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 3.8.2 ANTENNA ANTI-REPLACEMENT CONSTRUCTION

The antenna used for this product is PIFA Antenna and FPC Antenna, that no antenna other than that furnished by the responsible party shall be used with the device.

### 3.8.3 ANTENNA GAIN

Operation Band	Chain 1 Antenna Gain(dBi)	Chain 2 Antenna Gain(dBi)	DG For Power (dBi)	Power Limit Reduction	
WLAN 2.4G	2.19	2.28	5.25	0	
BLT	3.56	/	3.56	0	

Refer to KDB662911 D01 Multiple Transmitter Output v02r01.

- d) Unequal antenna gains, with equal transmit powers. For antenna gains given by G<sub>1</sub>, G<sub>2</sub>, ..., G<sub>N</sub> dBi
  - (i) If transmit signals are *correlated*, then Directional gain =  $10 \log[(10^{G_1/20} + 10^{G_2/20} + ... + 10^{G_N/20})^2 /N_{ANT}]$  dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
  - (ii) If all transmit signals are *completely uncorrelated*, then Directional gain =  $10 \log[(10^{G_1/10} + 10^{G_2/10} + ... + 10^{G_N/10})/N_{ANT}] dBi$



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### **4 PHOTOGRAPHS OF TEST SETUP**

Please refer to the attached file (Test Setup Photo).



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### 5 PHOTOGRAPHS OF THE EUT

Please refer to the attached file (External Photos report and Internal Photos).

----- End of the Report ------



### Important

(1) The test report is invalid without the official stamp of CVC;

(2) Any part photocopies of the test report are forbidden without the written permission from CVC;

(3) The test report is invalid without the signatures of Approval and Reviewer;

- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.

(7) As for the test result "-" or "N" means "not applicable", "/" means "not test", "P" means "pass" and "F" means "fail"

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