

FCC RADIO TEST REPORT

Applicant : Hui Zhou Gaoshengda Technology Co., LTD
Address : NO.75 Zhongkai Development Area, Huizhou, Guangdong, China
Manufacturer : Hui Zhou Gaoshengda Technology Co., LTD
Address : NO.75 Zhongkai Development Area, Huizhou, Guangdong, China
Factory : Hui Zhou Gaoshengda Technology Co., LTD
Address : NO.75 Zhongkai Development Area, Huizhou, Guangdong, China
Product Name: WIFI+BT Module
Brand Name : GSD
Model No : WCT28M2701
FCC ID : 2AC23-WCT28
Measurement Standard: 47 CFR FCC Part 15, Subpart C (Section 15.247)
Receipt Date of Samples: February 23, 2023
Date of Tested : February 23, 2023 to February 28, 2023

Date of Report.....: March 16, 2023

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.

Prepared by Rose Hu / Project Engineer

Approved by

Iori Fan / Authorized Signatory



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Revision History

Report Number	Description	Issued Date
NTC2302265FV00	Initial Issue	2023-03-16



1. Summary of Test Result

FCC Rules	Description of Test	Result	Remarks
§15.207 (a)	AC Power Conducted Emission	N/A ¹	
§15.247(b)(3)	Maximum Conducted Output Power	PASS	
§15.247(a)(2)	6dB Bandwidth	N/A ¹	
§15.247(e)	Power Spectral Density	PASS	
§15.247(d)	Band Edge and Conducted Spurious Emissions	N/A ¹	
§15.247(d),§15.209, §15.205	Radiated Spurious Emissions and Restricted Bands	PASS	
§15.203	Antenna Requirement	PASS	

Note 1: The manufacturer added an optional antenna. We have retested the Radiated Spurious Emissions item. For Max. Conducted Output Power & Power Spectral Density items, we have recalculated the test limit based on the new antenna gain. The other test items were not affected, thus, the other test data were continued to be referenced, details refer to the report 21EFSS06094 06121 published by Dongguan Shuoxin Electronic Technology Co., LTD on August 12, 2021.



2. General Description of EUT

Product Information	
Product name:	WIFI+BT Module
Main Model Name:	WCT28M2701
Additional Model Name:	N/A
Model Difference:	N/A
S/N:	2302010010000
Brand Name	GSD
Hardware version:	V1.0
Software version:	V1.0
Rating:	DC 3.3V
Classification:	Class B
Typical arrangement:	Table-top
I/O Port:	N/A
Accessories Information	
Adapter:	N/A
Cable:	N/A
Other:	N/A
Additional Information	
Note:	N/A
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.



Technical Specification	
Frequency Range:	2412-2462MHz for IEEE 802.11b/g/n(HT20)
	2422-2452MHz for IEEE 802.11n(HT40)
Modulation Technology:	DSSS, OFDM
Modulation Type:	CCK, DQPSK, DBPSK, 64-QAM, 16-QAM, QPSK, BPSK, 256QAM
Number of Channel:	11 for IEEE 802.11b/g/n(HT20)
	7 for IEEE 802.11n(HT40)
Channel Space:	5MHz
Antenna Type:	PIFA antenna*2
Antenna Gain:	Ant.1: 3.86dBi
	Ant.2: 3.86dBi

Antenna Information

Ant. (Chain)	Brand	Model name	Antenna Type	Connector	Gain (dBi)	Application range
1 (BT)	HKC WWXL600918		Copper tube	IPEX	2.71	2.4 to 2.5 GHz
2	НКС	HKC WWXL6009190	PIFA	IPEX	3.86	2.4 to 2.5 GHz
(WLAN)					4.74	5.150 to 5.850 GHz
3	НКС	WWXL6009190	PIFA	IPEX	3.86	2.4 to 2.5 GHz
(WLAN)					4.74	5.150 to 5.850 GHz

Note: 2.4G Antenna Directional gain = $10 \log [(10^{3.86/20} + 10^{3.86/20})^2/2] = 6.87 dBi$





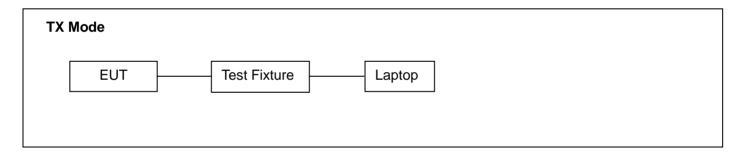
Channel List						
IEEE 802.11	b/ g/ n(HT20)	IEEE 802.11n(HT40)				
Channel	Channel Frequency (MHz)		Frequency (MHz)			
1	2412					
2	2417					
3	2422	3	2422			
4	2427	4	2427			
5	2432	5	2432			
6	2437	6	2437			
7	2442	7	2442			
8	2447	8	2447			
9	2452	9	2452			
10	2457					
11	2462					



3. Test Channels and Modes Detail

	Mode	Channel	Frequency (MHz)	Remark	
		1	2412	IEEE 802.11b/ g/ n(HT20)	
		3	2422	IEEE 802.11n(HT40)	
1	ТХ	6	2437	IEEE 802.11b/ g/ n(HT20)/ n(HT40)	
		9	2452	IEEE 802.11n(HT40)	
		11	2462	IEEE 802.11b/ g/ n(HT20)	
2.	. Normal Mode				
Note: TX mode means that the EUT was programmed to be in continuously transmitting mode.					

4. Configuration of EUT



5. Modification of EUT

No modifications are made to the EUT during all test items.



6. Description of Support Device

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.

No.	Equipment	Brand	M/N	S/N	Cable Specification	Remarks
1.	Laptop	Lenovo	02213DC	0A33012	Power cord, 1.8m, unshielded	
2.	Power supply (Notebook)	Taida	92P1154	N/A		
3.	Test fixture					Provide by the Manufacturer

7. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)			
Accreditations and	:	The Laboratory has been assessed and proved to be in compliance with			
Authorizations		CNAS/CL01			
		Listed by CNAS, August 13, 2018			
		he Certificate Registration Number is L5795.			
		The Certificate is valid until August 13, 2024			
		The Laboratory has been assessed and proved to be in compliance with ISO17025			
		Listed by A2LA, November 01, 2017			
		The Certificate Registration Number is 4429.01			
		Listed by FCC, November 06, 2017			
		Test Firm Registration Number is 907417			
		Listed by Industry Canada, June 08, 2017			
		The Certificate Registration Number is 46405-9743A			
Test Site Location	:	Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng			
		District, Dongguan City, Guangdong Province, China			



8. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 15, Subpart C, 15.247 ANSI C63.10-2013

References Test Guidance:

DTS KDB 558074 D01 15.247 Meas Guidance v05r02





9. Deviations and Abnormalities from Standard Conditions

The manufacturer added an optional antenna. We have retested the Radiated Spurious Emissions item. For Max. Conducted Output Power & Power Spectral Density items, we have recalculated the test limited based on the new antenna gain. The other test items were not affected, thus, the other test data were continued to be referenced, details refer to the report 21EFSS06094 06121 published by Dongguan Shuoxin Electronic Technology Co., LTD on August 12, 2021.

10. Test Conditions

No.	Test Item	Test Mode	Test Voltage	Tested by	Remarks
1.	Radiated Spurious Emissions and Restricted Bands	1, 2	DC 3.3V	Sean	See note 1
2.	Antenna Requirement				See note 1
Note:					

1. The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: 15~35°C, 30~70%, 86~106kPa.

11. Measurement Uncertainty

No.	Test Item	Frequency	Uncertainty	Remarks
1.	Conducted Emission	150KHz ~ 30MHz	±2.52 dB	
	O Dedicted Enviroien Test	9KHz ~ 30MHz	±2.60 dB	
2.		30MHz ~ 1GHz	±4.68 dB	
Ζ.	Radiated Emission Test	1GHz ~ 18GHz	±5.14 dB	
		18GHz ~ 40GHz	±5.14 dB	
3.	RF Conducted Test	10Hz ~ 40GHz	±1.06 dB	

Note:

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

2. The measurement uncertainly levels above are estimated and calculated according to CISPR 16-4-2.

3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.



12. Sample Calculations

Conducted Emission										
Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector				
0.1900	30.10	10.60	40.70	79.00	-38.30	QP				
Where,										
Freq.	= Emiss	ion frequency in MH	łz							
Reading Lev	el = Spect	= Spectrum Analyzer/Receiver Reading								
Corrector Fa	ctor = Inserti	Insertion loss of LISN + Cable Loss + RF Switching Unit attenuation								
Measuremer	nt = Readi	ading + Corrector Factor								
Limit	= Limit s	t stated in standard								
Margin	= Measu	surement - Limit								
Detector	= Readi	ng for Quasi-Peak /	Average / Peak							

Radiated Spurious Emissions and Restricted Bands										
Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Over (dB)	Detector				
60.0700	45.88	-18.38	27.50	49.00	-21.50	QP				
Where,										
Freq.	= Emiss	ion frequency in MH	lz							
Reading Lev	el = Spect	= Spectrum Analyzer/Receiver Reading								
Corrector Fa	ctor = Anten	= Antenna Factor + Cable Loss - Pre-amplifier								
Measuremer	nt = Readi	= Reading + Corrector Factor								
Limit	= Limit s	= Limit stated in standard								
Over	= Margii	= Margin, which calculated by Measurement - Limit								
Detector	= Readi	ng for Quasi-Peak /	Average / Peak							

Note: For all conducted test items, the spectrum analyzer offset or transducer is derived from RF cable loss and attenuator factor. The offset or transducer is equal to the RF cable loss plus attenuator factor.



13. Test Items and Results

13.1 Radiated Spurious Emissions and Restricted Bands Measurement

LIMITS

Frequency range	Distance Meters	Field Strengths Limit (15.209)
MHz	DISIGNCE MELEIS	μV/m
0.009 ~ 0.490	300	2400/F(kHz)
0.490 ~ 1.705	30	24000/F(kHz)
1.705 ~ 30	30	30
30 ~ 88	3	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500

Remark: (1) Emission level (dB) μ V = 20 log Emission level μ V/m

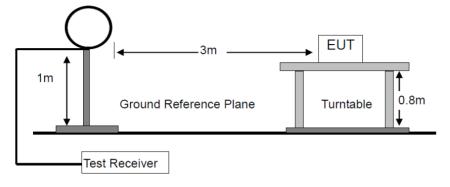
(2) The smaller limit shall apply at the cross point between two frequency bands.

- (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.
- (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.
- (5) §15.247(d) specifies that emissions which fall in the restricted bands, as defined in §15.205 comply with radiated emission limits specified in §15.209.

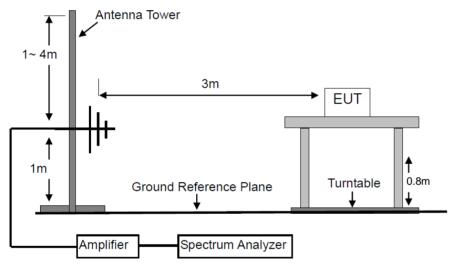


BLOCK DIAGRAM OF TEST SETUP

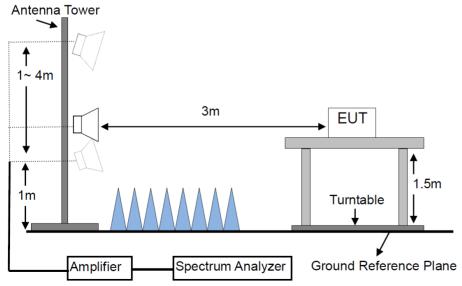
For Radiated Emission below 30MHz



For Radiated Emission 30-1000MHz



For Radiated Emission Above 1000MHz.





TEST PROCEDURES

- a. Below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:

The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna 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.
- e. 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. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Detector	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
Above 1000	Average	1 MHz	10 Hz

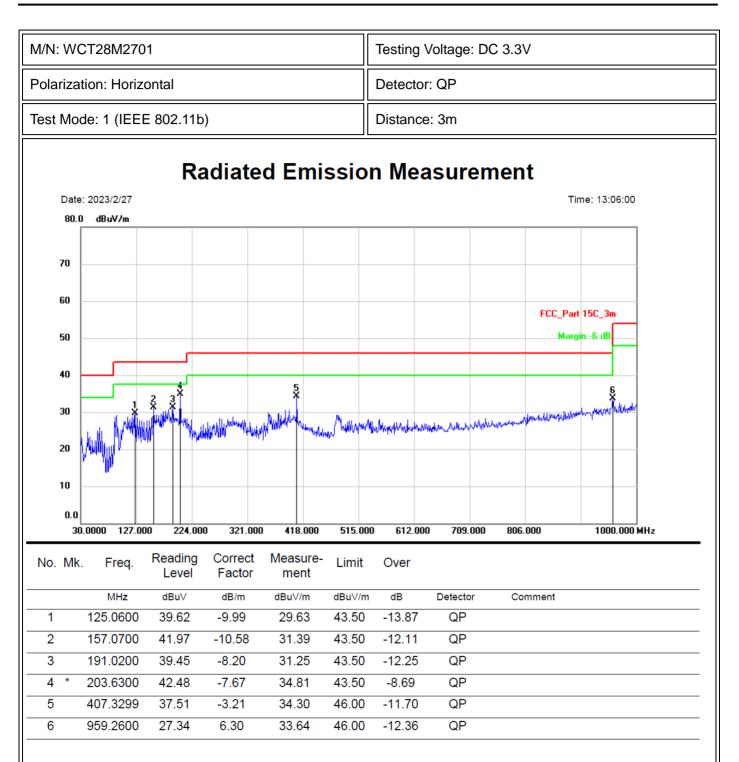


TEST RESULTS

PASS

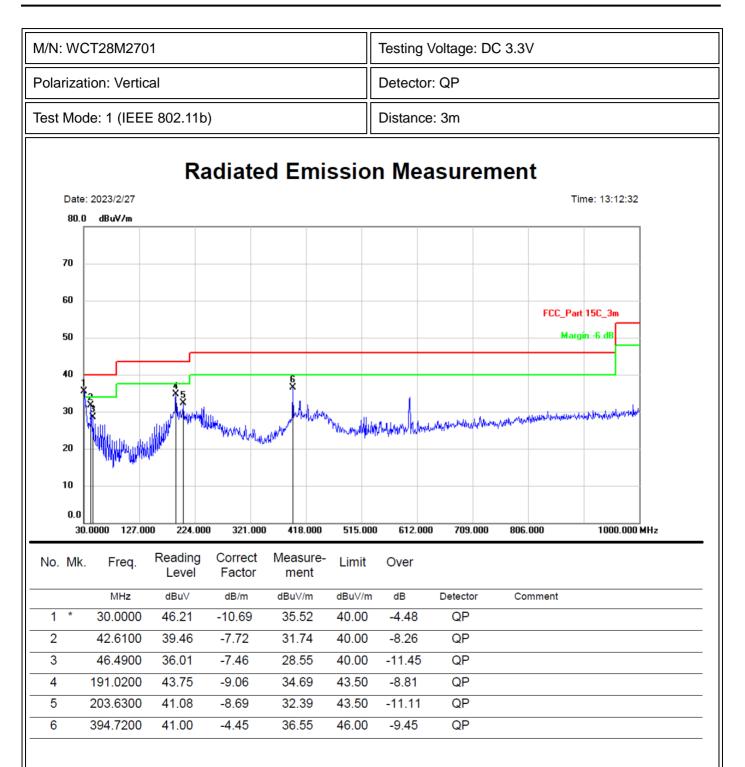
Please refer to the following pages of the worst case.





Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.





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Modulation: Test Result: PASS Test frequency range: 1-25GHz										
TX (IEEE 80)2.11b the v	vorst case)	1							
Freq.	Ant. Pol.	Read Level(d	U	Factor	Emission Level (dBuV/m)		Limit 3m (dBuV/m)		Margin (dB)	
(MHz)	(H/V) PK	AV	(dB/m)	PK	AV	PK	AV	PK	AV	
			Oper	ation Mod	le: TX Moo	de (Low)				
4824	V	46.45	39.56	6.38	52.83	45.94	74.00	54.00	-21.17	-8.06
7236	V	46.17	32.10	10.48	56.65	42.58	74.00	54.00	-17.35	-11.42
4824	Н	49.30	44.48	6.38	55.68	50.86	74.00	54.00	-18.32	-3.14
7236	Н	43.26	33.08	10.48	53.74	43.56	74.00	54.00	-20.26	-10.44
			Ope	ration Mo	de: TX Mo	de (Mid)				
4874	V	46.17	36.85	6.56	52.73	43.41	74.00	54.00	-21.27	-10.59
7311	V	46.19	31.94	10.53	56.72	42.47	74.00	54.00	-17.28	-11.53
4874	Н	46.67	37.89	6.56	53.23	44.45	74.00	54.00	-20.77	-9.55
7311	Н	45.34	31.91	10.53	55.87	42.44	74.00	54.00	-18.13	-11.56
			Oper	ation Mod	le: TX Mod	le (High)				
4924	V	45.59	31.96	6.76	52.35	38.72	74.00	54.00	-21.65	-15.28
7386	V	45.60	31.77	10.57	56.17	42.34	74.00	54.00	-17.83	-11.66
4924	Н	45.74	32.41	6.76	52.50	39.17	74.00	54.00	-21.50	-14.83
7386	Н	45.96	31.71	10.57	56.53	42.28	74.00	54.00	-17.47	-11.72
			Spuriou	is Emissio	on in restri	icted ban	d:		1	
2390.000	V	54.46	34.62	0.09	54.55	34.71	74.00	54.00	-19.45	-19.29
2390.000	Н	57.34	39.10	0.09	57.43	39.19	74.00	54.00	-16.57	-14.81
2483.500	V	60.91	48.71	0.34	61.25	49.05	74.00	54.00	-12.75	-4.95
2483.500	Н	61.01	50.26	0.34	61.35	50.60	74.00	54.00	-12.65	-3.40
Remark: 1. Data of measurement within this frequency range shown "" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits. 2. Others emissions are attenuated 20dB below the limits, so it does not record in report.										



13.2 Maximum Conducted Output Power Measurement

LIMITS

For system using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1 Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

ANSI C63.10 - 2013, Section 11.9.1.3 ANSI C63.10 - 2013, Section 11.9.2.3.2

TEST RESULTS

PASS

Please refer to the following table.





Channel	Frequency (MHz)	Data Rate (Mbps)	Peak Output Power (dBm)			Limit (dBm)	Result		
		I	EEE 802.11I	C					
1	2412	1		18.44		≤30	PASS		
6	2437	1		18.65		≤30	PASS		
11	2462	1		19.05		≤30	PASS		
	-	I	EEE 802.11	3					
1	2412	6		22.21		≤30	PASS		
6	2437	6		22.00		≤30	PASS		
11	2462	6		22.48		≤30	PASS		
IEEE 802.11n(HT20)									
4	2412	MOOO	ANT_1	ANT_2	Total	≤29.13	PASS		
1		MCS0	21.32	21.74	24.55				
6	2437	MCS0	21.34	21.36	24.36	≤29.13	PASS		
11	2462	MCS0	21.59	21.61	24.61	≤29.13	PASS		
		IEEE	E 802.11n(H	T40)					
0		1000	ANT_1	ANT_2	Total				
3	2422	MCS0	21.74	21.66	24.71	≤29.13	PASS		
6	2437	MCS0	21.74	21.56	24.66	≤29.13	PASS		
9	2452	MCS0	21.99	22.07	25.04	≤29.13	PASS		
Note:	1. As for IEEE 8 pre-test, but of	02.11b and IEE	•		of antenna	as have con	sidered during		
	 As for IEEE 80 Directional gai 		0			nal gain for N	/IMO Mode.		

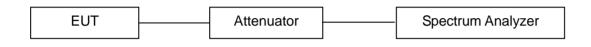


13.3 Power Spectral Density Measurement

LIMITS

The Maximum of Power Spectral Density Measurement is 8dBm in any 3 kHz.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer was set as below according to FCC KDB558074 (v05r02):

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{KHz}$
- d. Set the VBW \ge 3 x RBW.
- e. Set the Detector = peak.
- f. Set the Sweep time = auto couple.
- g. Set the Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.
- j. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST RESULTS

PASS

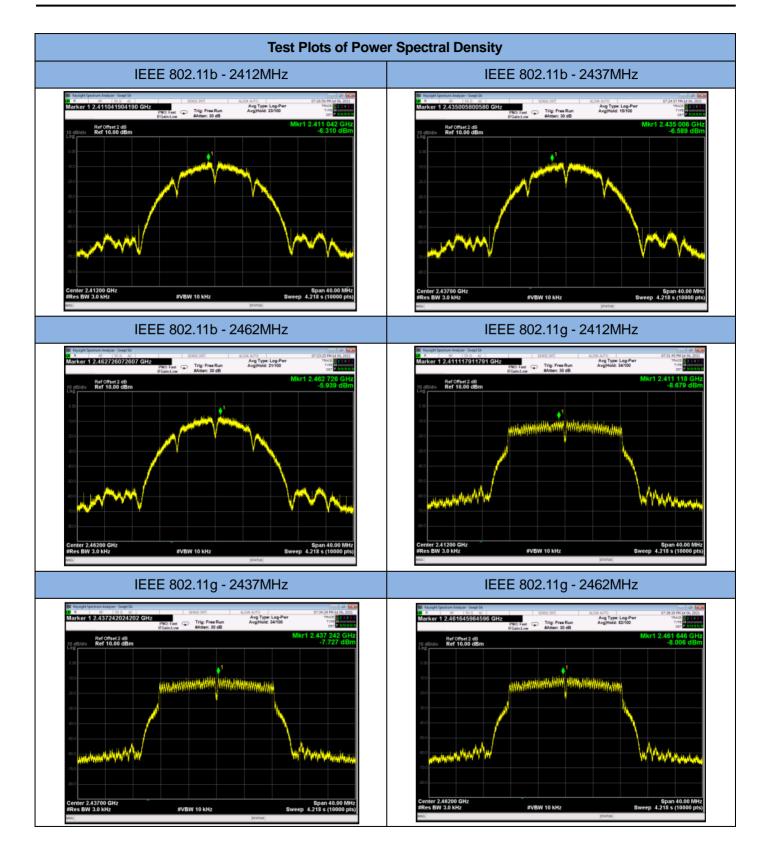
Please refer to the following table.



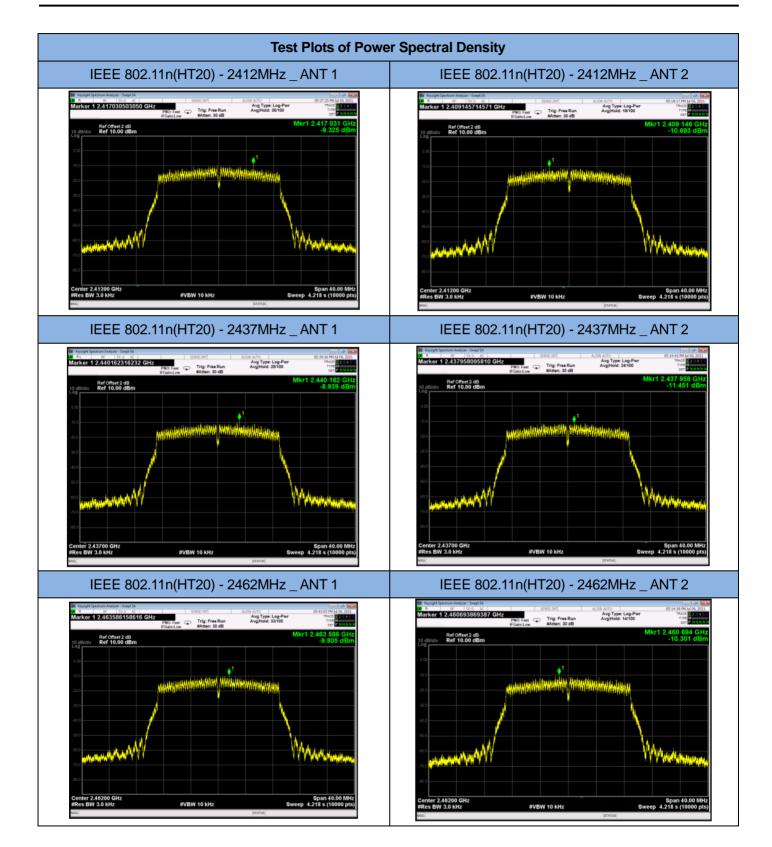
Channel	Frequency (MHz)	Data Rate (Mbps)	PSD dBm / 3kHz		Limit dBm / 3kHz	Result				
	· · · · ·		IE	EE 802.11b						
1	2412	1		-6.310		8	PASS			
6	2437	1		-6.589		8	PASS			
11	2462	1		-5.939		8	PASS			
IEEE 802.11g										
1	2412	6		-8.679	8	PASS				
6	2437	6		-7.727		8	PASS			
11	2462	6		-8.006		8	PASS			
IEEE 802.11n(HT20)										
1	2412	MCS8	ANT_1	ANT_2	Total	7.13	PASS			
I	2412	IVIC So	-9.325	-10.693	-6.945	7.13				
6	2437	MCS8	-8.939	-11.451	-7.006	7.13	PASS			
11	2462	MCS8	-9.805	-10.301	-7.036	7.13	PASS			
			IEEE	802.11n(HT4	0)					
2	2422	MCCO	ANT_1	ANT_2	Total	7.40	DASS			
3	2422	MCS8	-13.246	-13.275	-10.250	7.13	PASS			
6	2437	MCS8	-13.245	-12.445	-9.816	7.13	PASS			
9	2452	MCS8	-14.086	-13.007	-10.503	7.13	PASS			

but only the worst case was recorded. 2. As for IEEE 802.11n mode, EUT working in MIMO mode. Directional gain for MIMO Mode. 3. Directional gain = 10 log $[(10^{3.86/20} + 10^{3.86/20})^2/2]$ = 6.87dBi>6dBi

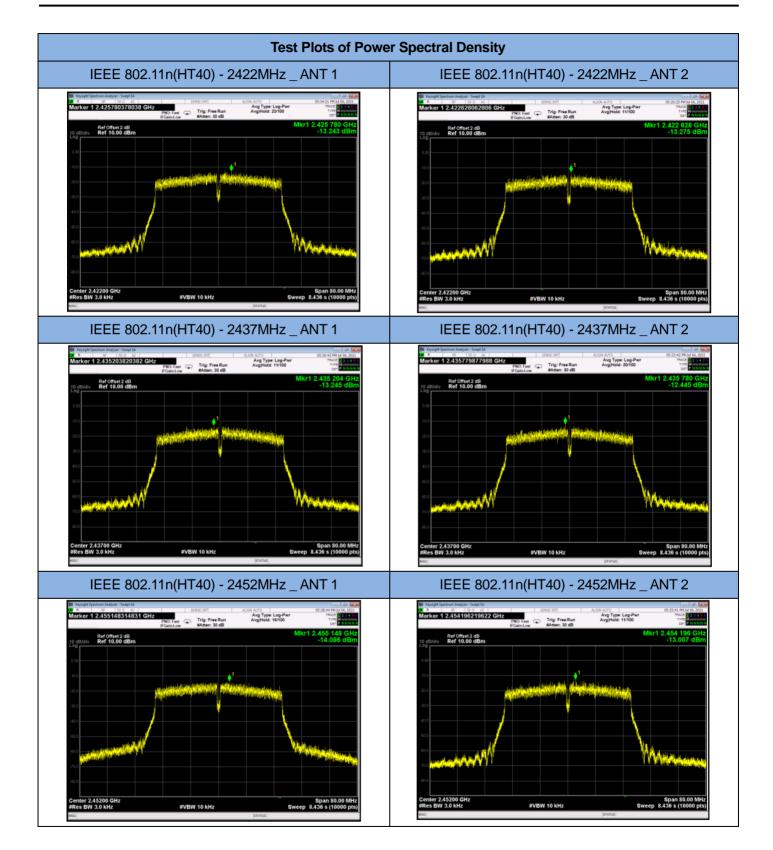














13.4 Antenna Requirement

STANDARD APPLICABLE

According to of FCC part 15C section 15.203 and 15.247:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Systems operating in the 2400-2483.5MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

ANTENNA CONNECTED CONSTRUCTION

The antenna is PIFA antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is 3.86 dBi, Therefore, the antenna is consider meet the requirement.



14. Test Equipment List

ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI7	100837	Mar. 13, 2023	1 Year
2.	Antenna	Schwarzbeck	VULB9162	9162-010	Mar. 23, 2022	2 Year
3.	Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	Mar. 13, 2023	1 Year
4.	Spectrum Analyzer	Keysight	N9020A	MY54200831	Mar. 13, 2023	1 Year
5.	Spectrum Analyzer	Rohde & Schwarz	FSV40	101094	Mar. 13, 2023	1 Year
6.	Horn Antenna	Schwarzbeck	BBHA9170	9170-172	Mar. 23, 2022	2 Year
7.	Power Sensor	DARE	RPR3006W	15l00041SNO 64	Mar. 13, 2023	1 Year
8.	Horn Antenna	COM-Power	AH-118	071078	Mar. 23, 2022	2 Year
9.	Pre-Amplifier	HP	HP 8449B	3008A00964	Mar. 13, 2023	1 Year
10.	Pre-Amplifier	HP	HP 8447D	1145A00203	Mar. 13, 2023	1 Year
11.	Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	Mar. 23, 2022	2 Year
12.	Test Receiver	Rohde & Schwarz	ESCI	101152	Mar. 13, 2023	1 Year
13.	L.I.S.N	Rohde & Schwarz	ENV 216	101317	Mar. 13, 2023	1 Year
14.	RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	Mar.13, 2023	1 Year
15.	Temporary antenna connector	TESCOM	SS402	N/A	N/A	N/A
16.	Test Software	EZ	EZ_EMC	N/A	N/A	N/A

Note: For photographs of EUT and measurement, please refer to appendix in separate documents.