

# FCC Test Report

**Applicant** : Teguar Corporation

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**Address** : 2920 Whitehall Park Drive Charlotte NC 28273  
United States

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**Product Name** : Rugged Tablet

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**Report Date** : Nov. 07, 2024

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**Shenzhen Anbotek Compliance Laboratory Limited**



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# TEST REPORT

Applicant : Tegar Corporation  
Manufacturer : Tegar Corporation  
Product Name : Rugged Tablet  
Model No. : TRT-A5580-08S, TMT-A5580-08S  
Trade Mark : Tegar  
Rating(s) : Input: 5V= 2400mA  
Battery capacity: DC 3.8V, 7200mAh  
**Test Standard(s) : 47 CFR Part 15E**  
**Test Method(s) : ANSI C63.10: 2020**  
**KDB 789033 D02 General UNII Test Procedures New Rules v02r01**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the 47 CFR Part 15E requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of receipt May 11, 2024

Date of Test May 11, 2024 ~ Jun. 17, 2024

Prepared by



(Nianxiu Chen)

Approved & Authorized Signer



(Kingkong Jin)



### Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Nov. 07, 2024



# 1. General Information

## 1.1. Client Information

Applicant	:	Teguar Corporation
Address	:	2920 Whitehall Park Drive Charlotte NC 28273 United States
Manufacturer	:	Teguar Corporation
Address	:	2920 Whitehall Park Drive Charlotte NC 28273 United States
Factory	:	Inventec Corporation
Address	:	No.349.Sec.2. Renhe Rd., DaDist, Taoyuan City 335, Taiwan

## 1.2. Description of Device (EUT)

Product Name	:	Rugged Tablet
Test Model No.	:	TRT-A5580-08S, TMT-A5580-08S (Note: All samples are the same except the model number, so we prepare "TRT-A5580-08S" for test only.)
Trade Mark	:	Teguar
Test Power Supply	:	AC 120V, 60Hz for Adapter/ DC 3.8V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Model: JBM0302 Input: 100-240V~50/60Hz 0.5A Max Output: 5V= 2400mA
<b>RF Specification</b>		
Operation Mode	:	<input checked="" type="checkbox"/> a <input checked="" type="checkbox"/> n(HT20) <input checked="" type="checkbox"/> n(HT40) <input checked="" type="checkbox"/> ac(VHT20) <input checked="" type="checkbox"/> ac(VHT40) <input checked="" type="checkbox"/> ac(VHT80) <input type="checkbox"/> ac(VHT160) <input type="checkbox"/> ax(HEW20) <input type="checkbox"/> ax(HEW40) <input type="checkbox"/> ax(HEW80) <input type="checkbox"/> ax(HEW160)
Device Type	:	<input type="checkbox"/> Outdoor AP <input type="checkbox"/> Indoor AP <input type="checkbox"/> Point-to-point AP <input checked="" type="checkbox"/> Client
Operation Frequency	:	<input checked="" type="checkbox"/> Wi-Fi 5.2G: 5150~5250MHz <input type="checkbox"/> Wi-Fi 5.3G: 5250~5350MHz <input type="checkbox"/> Wi-Fi 5.6G: 5470~5725MHz <input checked="" type="checkbox"/> Wi-Fi 5.8G: 5725~5850MHz
Number of Channel	:	Wi-Fi 5.2G: <input checked="" type="checkbox"/> 4 Channels for 20MHz bandwidth (5180-5240MHz) <input checked="" type="checkbox"/> 2 Channels for 40MHz bandwidth (5190-5230MHz) <input checked="" type="checkbox"/> 1 Channels for 80MHz bandwidth (5210MHz) Wi-Fi 5.8G: <input checked="" type="checkbox"/> 5 Channels for 20MHz bandwidth (5745MHz ~ 5825MHz) <input checked="" type="checkbox"/> 2 Channels for 40MHz bandwidth (5755MHz ~ 5795MHz)



		<input checked="" type="checkbox"/> 1 Channels for 80MHz bandwidth (5775MHz)
Modulation Type	:	<input checked="" type="checkbox"/> 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) <input checked="" type="checkbox"/> 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) <input checked="" type="checkbox"/> 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) <input type="checkbox"/> 802.11ax: OFDMA(BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Antenna Type	:	FPC Antenna
Antenna Gain(Peak)	:	Wi-Fi 5.2G: 2.32dBi Wi-Fi 5.2G: 2.88dBi
<b>Remark:</b> 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

### 1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
--	--

### 1.4. Operation channel list

Operation Band: U-NII Band 1

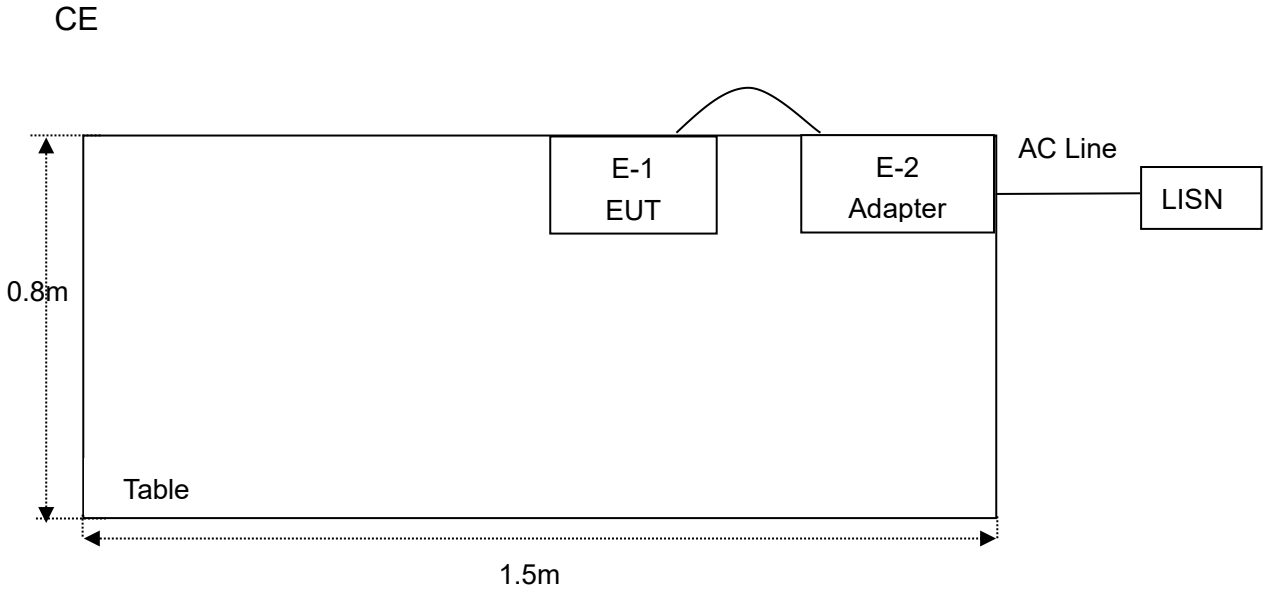
Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	/	/
44	5220	/	/	/	/
48	5240	/	/	/	/

Operation Band: U-NII Band 3

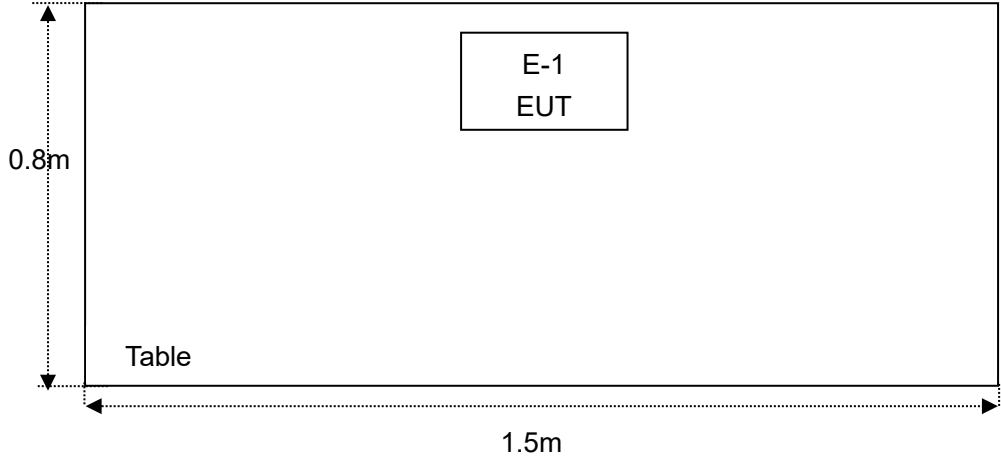
Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/



**1.5. Description Of Test Setup**



RE





### 1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Jan. 18, 2024	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00 1	Jan. 17, 2024	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Jan. 17, 2024	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Jan. 23, 2024	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	Jan. 17, 2024	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 12, 2023	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Oct. 12, 2023	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Jan. 17, 2024	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 12, 2023	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 20, 2023	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 16, 2023	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	May. 06, 2024	1 Year



### 1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

### 1.8. Description of Test Facility

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

#### FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory 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. Registration No. 434132.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

#### Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.



### 1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



## 2. Summary of Test Results

Standard	Test Type	Result
15.207 & 15.407(b)	Conducted Emission	PASS
15.205 & 15.209 & 15.407(b)	Radiated Spurious Emission and Restricted Band	PASS
15.407(b)	Conducted Band Edge	PASS
15.407(a) & 2.1049	26dB Bandwidth & 99% Occupied Bandwidth	PASS
15.407(e)	Minimum 6dB Bandwidth (5.725-5.85GHz Band)	PASS
15.407(a)	Maximum Conducted Output Power	PASS
15.407(a)	Maximum Power Spectral Density	PASS
15.407(g)	Frequency Stability	PASS
15.203	Antenna Requirement	PASS

**Remark:** "N/A" is an abbreviation for Not Applicable.

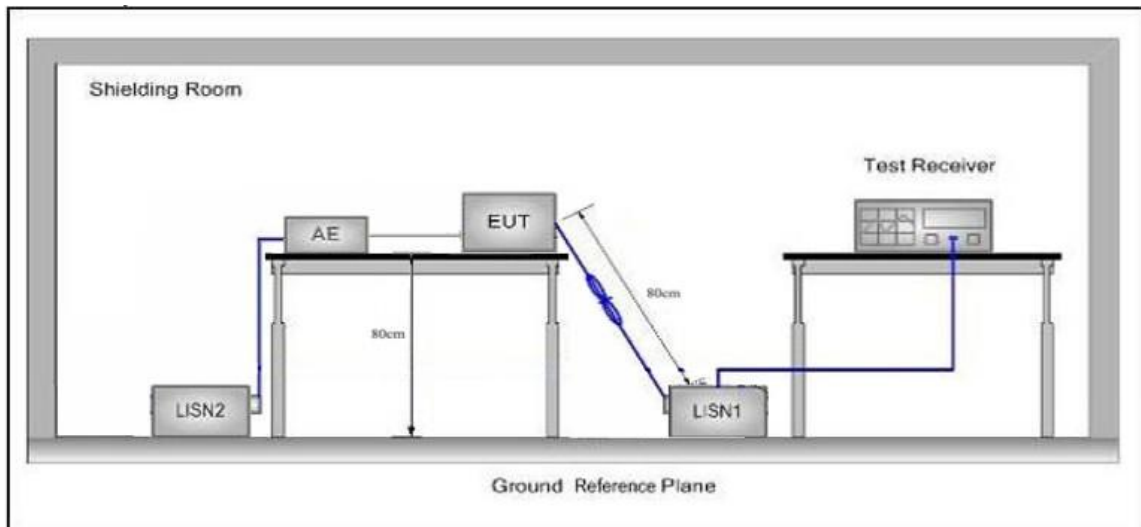


### 3. Conducted Emission Test

#### 3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207 & 15.407(b)		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50
<b>Remark:</b> (1) *Decreasing linearly with logarithm of the frequency. (2) The lower limit shall apply at the transition frequency.			

#### 3.2. Test Setup



#### 3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

#### 3.4. Test Data

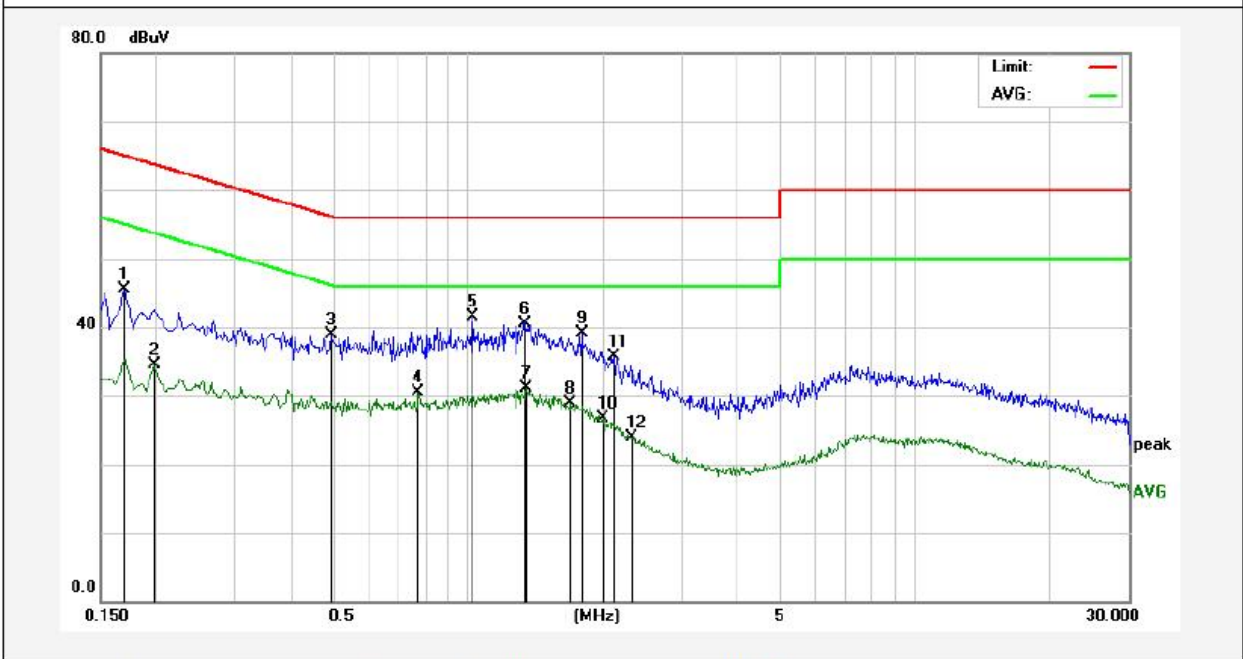
During the test, pre-scan all modes, only the worst case is recorded in the report.

Please to see the following pages.



**Conducted Emission Test Data**

Test Site: 1# Shielded Room  
 Operating Condition: 802.11ac(VHT80) 5210MHz for WiFi 5.2G  
 Test Specification: AC 120V, 60Hz for Adapter  
 Comment: Live Line  
 Temp.(°C)/Hum.(%RH): 23.5°C/57%RH

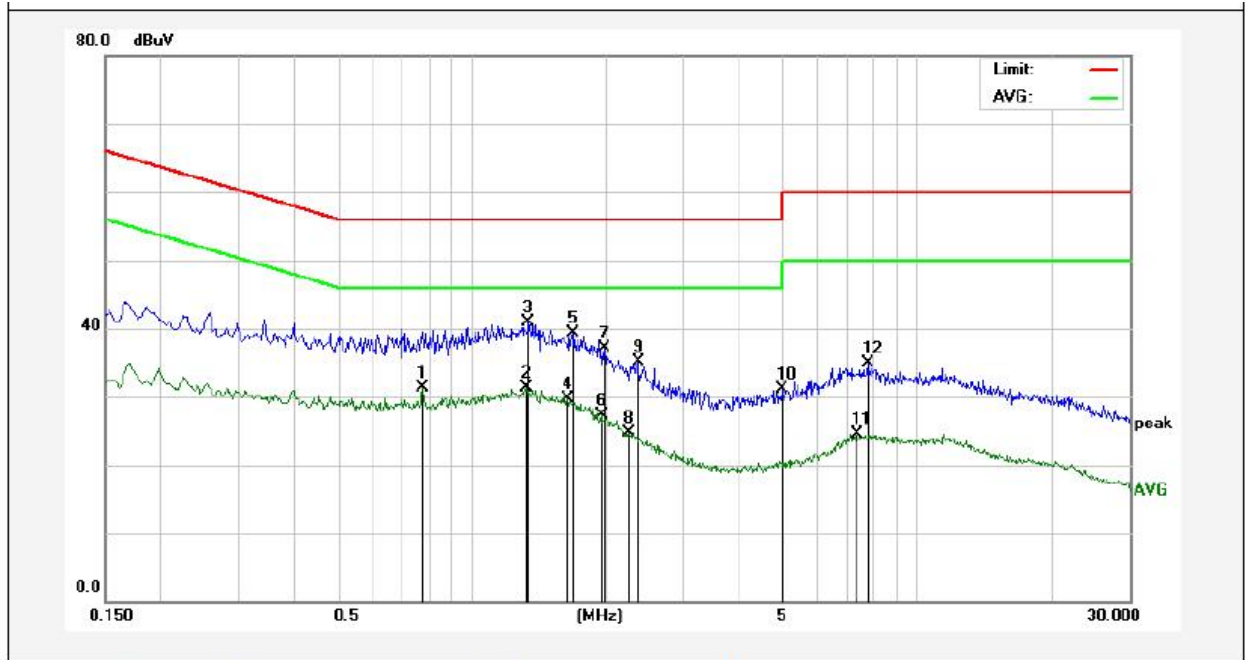


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1700	27.59	17.83	45.42	64.96	-19.54	QP	
2	0.1980	16.64	17.82	34.46	53.69	-19.23	AVG	
3	0.4940	21.13	17.86	38.99	56.10	-17.11	QP	
4	0.7740	12.56	17.87	30.43	46.00	-15.57	AVG	
5	1.0260	23.72	17.86	41.58	56.00	-14.42	QP	
6	1.3340	22.74	17.86	40.60	56.00	-15.40	QP	
7	1.3460	13.25	17.86	31.11	46.00	-14.89	AVG	
8	1.6900	11.08	17.85	28.93	46.00	-17.07	AVG	
9	1.7980	21.29	17.86	39.15	56.00	-16.85	QP	
10	1.9980	8.93	17.85	26.78	46.00	-19.22	AVG	
11	2.1140	17.94	17.85	35.79	56.00	-20.21	QP	
12	2.3140	6.12	17.85	23.97	46.00	-22.03	AVG	



**Conducted Emission Test Data**

Test Site: 1# Shielded Room  
 Operating Condition: 802.11ac(VHT80) 5210MHz for WiFi 5.2G  
 Test Specification: AC 120V, 60Hz for Adapter  
 Comment: Neutral Line  
 Temp.(°C)/Hum.(%RH): 23.5°C/57%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.7780	13.48	17.87	31.35	46.00	-14.65	AVG	
2	1.3260	13.37	17.86	31.23	46.00	-14.77	AVG	
3	1.3380	22.95	17.86	40.81	56.00	-15.19	QP	
4	1.6380	11.90	17.85	29.75	46.00	-16.25	AVG	
5	1.6900	21.49	17.85	39.34	56.00	-16.66	QP	
6	1.9580	9.47	17.85	27.32	46.00	-18.68	AVG	
7	1.9900	19.28	17.85	37.13	56.00	-18.87	QP	
8	2.2580	6.83	17.85	24.68	46.00	-21.32	AVG	
9	2.3699	17.32	17.85	35.17	56.00	-20.83	QP	
10	4.9860	13.25	17.86	31.11	56.00	-24.89	QP	
11	7.3100	6.61	17.91	24.52	50.00	-25.48	AVG	
12	7.7380	16.90	17.92	34.82	60.00	-25.18	QP	



## 4. Radiation Spurious Emission and Restricted Band Test

### 4.1. Test Standard and Limit

Radiated Spurious Emission					
Test Standard	FCC Part15 C Section 15.205 & 15.209 & 15.407(b)				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
-		68.2	Peak	3	
Band Edge					
Test Standard	15.407(b)				
Test Limit	Operating Band	Frequency	EIRP Limit	Remark	
	5150-5250MHz	Out of operation band	-27dBm/MHz(68.2dBuV/m)@3m	Peak	
	5250-5350MHz	Out of operation band	-27dBm/MHz(68.2dBuV/m)@3m	Peak	
	5470-5725MHz	Out of operation band	-27dBm/MHz(68.2dBuV/m)@3m	Peak	
	5725-5850 MHz	Below 5.65GHz	-27dBm/MHz(68.2dBuV/m)@3m	Peak	
		5.65GHz-5.7GHz	-27*dBm/MHz to 10dBm/MHz (68.2* dBuV/m to 105.6dBuV/m)	Peak	
		5.7GHz-5.72GHz	10*dBm/MHz to 15.6dBm/MHz (105.6*dBuV/m to 110.8dBuV/m)	Peak	
		5.72GHz-5.725GHz	15.6*dBm/MHz to 27dBm/MHz (110.8dBuV/m to* 122.2dBuV/m)	Peak	
		5.85GHz-5.855GHz	27dBm/MHz to 15.6*dBm/MHz (122.2dBuV/m to110.8* dBuV/m)	Peak	
5.855GHz-5.875GHz		15.6dBm/MHz to 10*dBm/MHz (110.8dBuV/m to 105.6* dBuV/m)	Peak		





	5.875GHz-5.925GHz	10dBm/MHz to -27*dBm/MHz (105.6dBuV/m to 68.2* dBuV/m)	Peak
	Above 5.925GHz	-27 dBm/MHz(68.2dBuV/m)@3m	Peak

**Remark:**

- (1)The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.
- (3)Above 1GHz limit: $E[dBuV/m] = EIRP[dBm] + 95.2 = 68.2 \text{ dBuV/m}$ , for  $EIPR[dBm] = -27 \text{ dBm}$ .

**4.2. Test Setup**

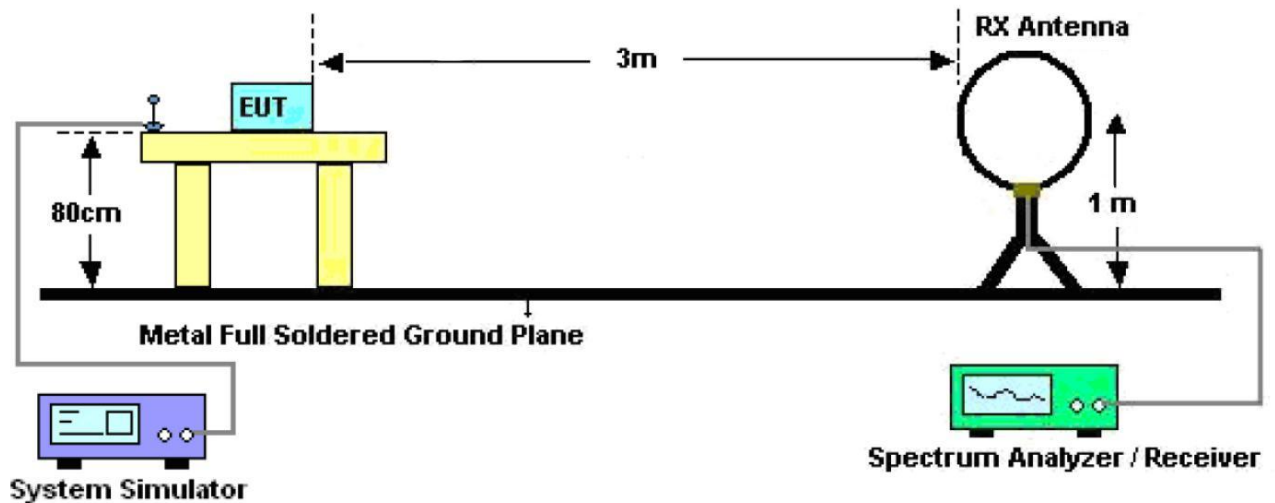


Figure 1. Below 30MHz

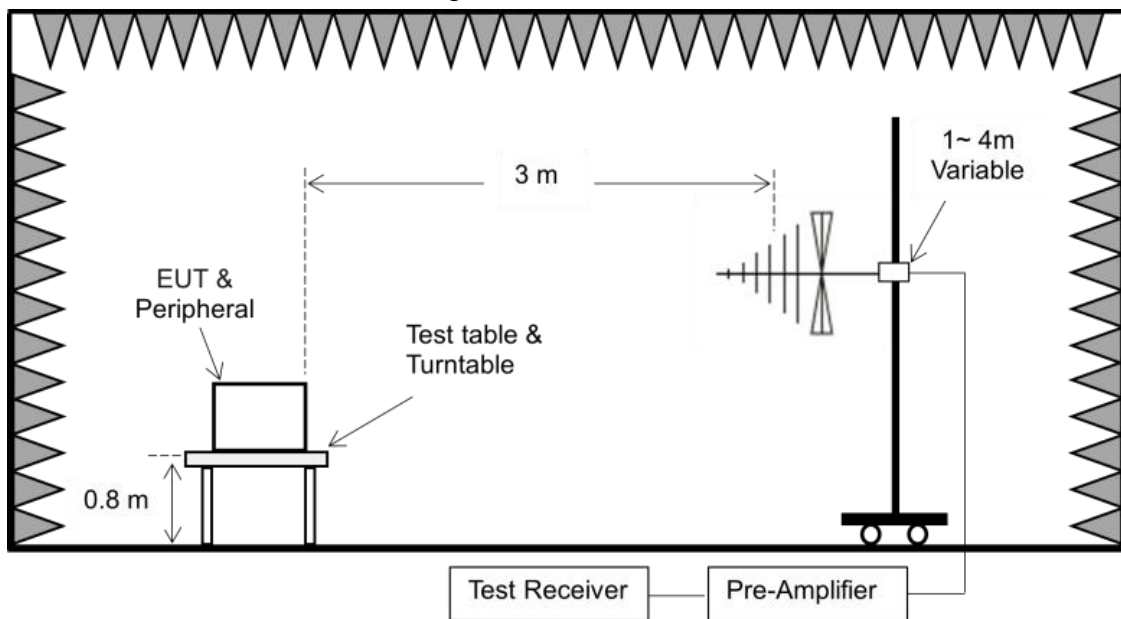


Figure 2. 30MHz to 1GHz



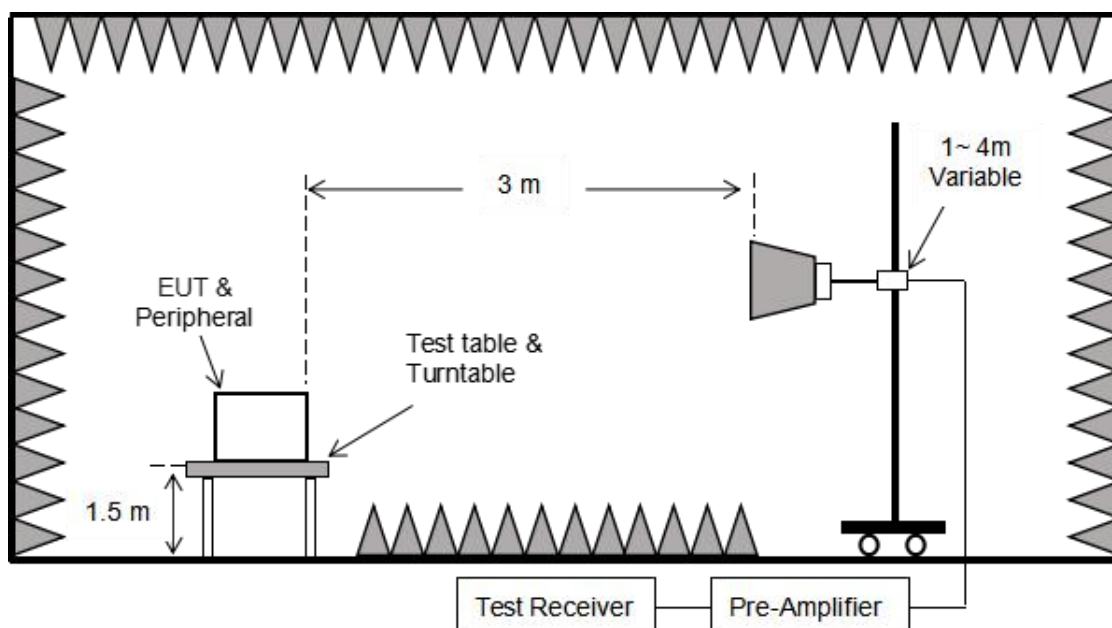


Figure 3. Above 1 GHz

### 4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9\*6\*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

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.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.



#### 4.4. Test Data

Pass

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

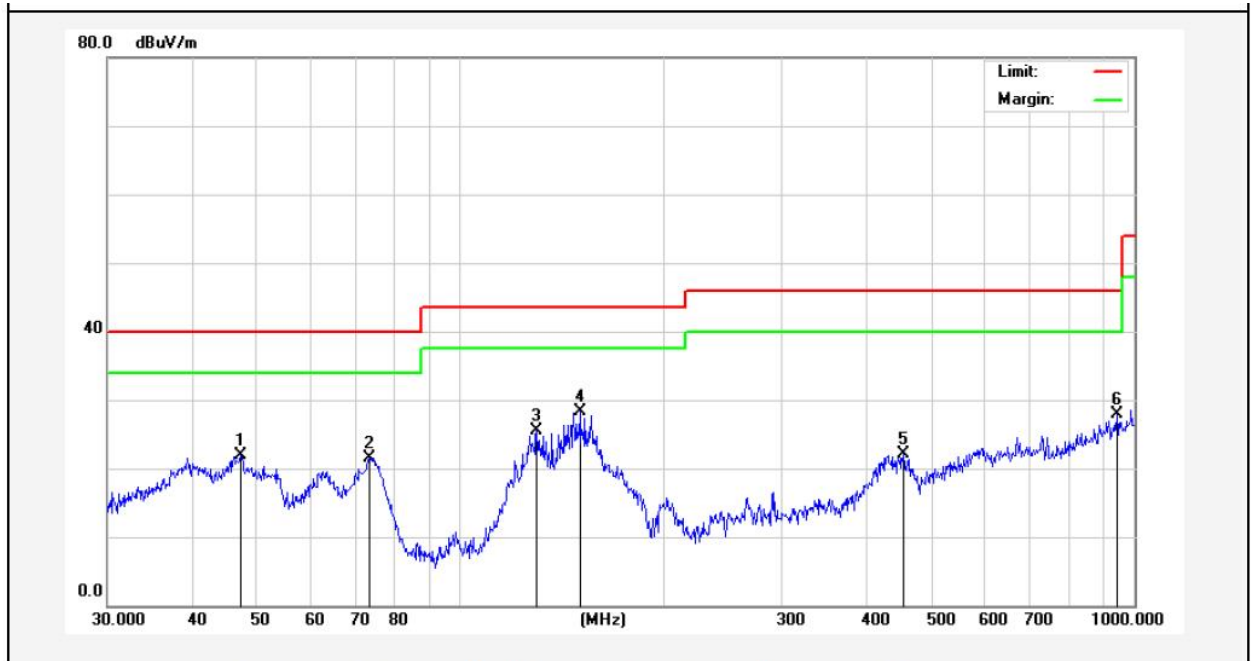
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, only the worst case is recorded in the report.



**Test Results (30~1000MHz)**

Test Mode: 802.11ac(VHT80) 5210MHz for WiFi 5.2G  
 Power Source: DC 3.8V Battery inside  
 Polarization: Vertical  
 Temp.(°C)/Hum.(%RH): 20.3°C/46%RH

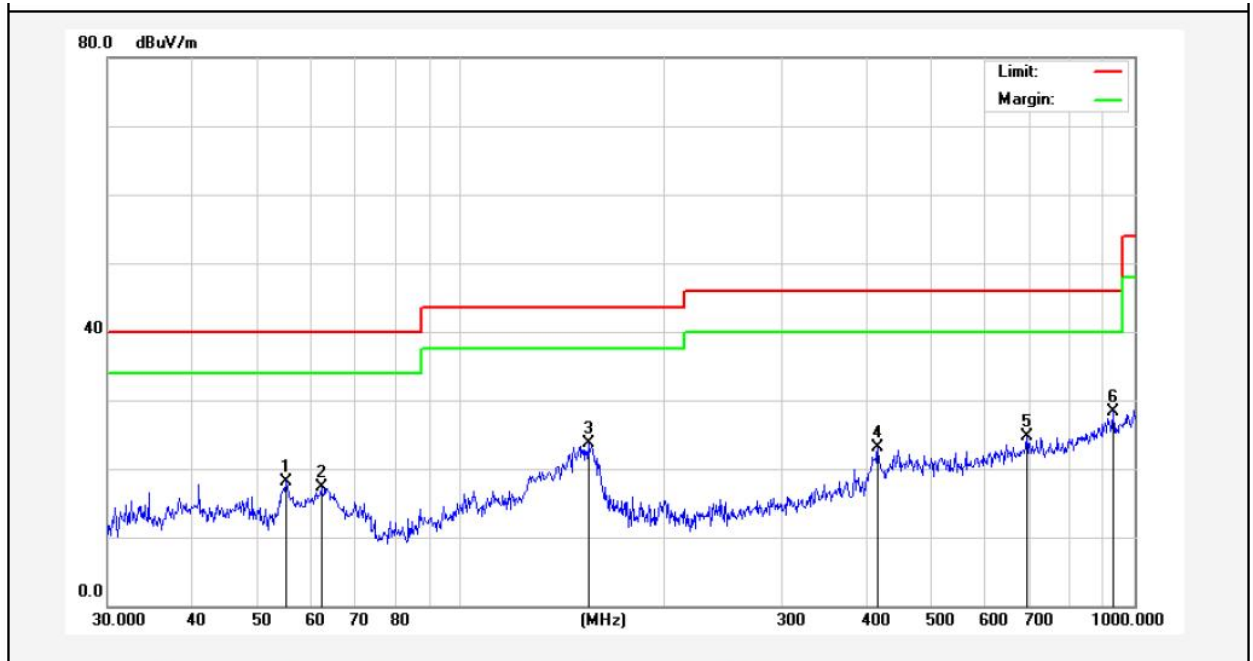


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	47.3255	37.20	-15.39	21.81	40.00	-18.19	QP			
2	73.3593	41.44	-19.92	21.52	40.00	-18.48	QP			
3	129.9226	47.03	-21.46	25.57	43.50	-17.93	QP			
4	150.5378	50.39	-22.07	28.32	43.50	-15.18	QP			
5	454.3100	35.74	-13.56	22.18	46.00	-23.82	QP			
6	942.1305	33.72	-5.74	27.98	46.00	-18.02	QP			



**Test Results (30~1000MHz)**

Test Mode: 802.11ac(VHT80) 5210MHz for WiFi 5.2G  
 Power Source: DC 3.8V Battery inside  
 Polarization: Horizontal  
 Temp.(°C)/Hum.(%RH): 20.3°C/46%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	55.2207	35.82	-17.62	18.20	40.00	-21.80	QP			
2	62.2128	35.55	-18.30	17.25	40.00	-22.75	QP			
3	154.8204	47.04	-23.42	23.62	43.50	-19.88	QP			
4	416.1791	38.96	-15.92	23.04	46.00	-22.96	QP			
5	691.9867	34.72	-10.03	24.69	46.00	-21.31	QP			
6	929.0081	34.20	-5.88	28.32	46.00	-17.68	QP			



**Test Results (Above 1000MHz)**

Test Mode: IEEE 802.11ac(VHT80) for WiFi 5.2G							
Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over limit (dB)	Antenna Pol.	Detector
10420.00	30.28	23.81	54.09	68.20	-14.11	V	Peak
15630.00	31.11	29.36	60.47	68.20	-7.73	V	Peak
10420.00	31.38	23.81	55.19	68.20	-13.01	H	Peak
15630.00	32.63	29.36	61.99	68.20	-6.21	H	Peak
10420.00	20.81	23.81	44.62	54.00	-9.38	V	AVG
15630.00	21.85	29.36	51.21	54.00	-2.79	V	AVG
10420.00	20.90	23.81	44.71	54.00	-9.29	H	AVG
15630.00	21.96	29.36	51.32	54.00	-2.68	H	AVG

Remark:

1. During the test, pre-scan the 802.11a, 802.11n(HT20), ac(VHT20), n(HT40), ac(VHT40), ac(VHT80) mode, and found the 802.11ac(VHT80) mode is worse case , the report only record this mode.
2. Result =Reading + Factor



**Test Results (Above 1000MHz)**

Test Mode: IEEE 802.11ac(VHT20) for WiFi 5.8G							
Test channel: Low CH							
Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over limit (dB)	Antenna Pol.	Detector
11490.000	28.68	23.36	52.04	68.20	-16.16	V	Peak
17235.000	30.14	31.97	62.11	68.20	-6.09	V	Peak
11490.000	29.31	23.36	52.67	68.20	-15.53	H	Peak
17235.000	30.31	31.97	62.28	68.20	-5.92	H	Peak
11490.000	18.09	23.36	41.45	54.00	-12.55	V	AVG
17235.000	18.98	31.97	50.95	54.00	-3.05	V	AVG
11490.000	18.34	23.36	41.70	54.00	-12.30	H	AVG
17235.000	18.21	31.97	50.18	54.00	-3.82	H	AVG
Test channel: Middle CH							
Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over limit (dB)	Antenna Pol.	Detector
11570.000	29.26	23.42	52.68	68.20	-15.52	V	Peak
17355.000	30.02	32.18	62.20	68.20	-6.00	V	Peak
11570.000	29.51	23.42	52.93	68.20	-15.27	H	Peak
17355.000	30.40	32.18	62.58	68.20	-5.62	H	Peak
11570.000	19.364	23.42	42.78	54.00	-11.22	V	AVG
17355.000	19.301	32.18	51.48	54.00	-2.52	V	AVG
11570.000	19.332	23.42	42.75	54.00	-11.25	H	AVG
17355.000	18.587	32.18	50.77	54.00	-3.23	H	AVG
Test channel: High CH							
Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Over limit (dB)	Antenna Pol.	Detector
11650.000	28.77	23.49	52.26	68.20	-15.94	V	Peak
17475.000	30.26	32.39	62.65	68.20	-5.55	V	Peak
11650.000	29.25	23.49	52.74	68.20	-15.46	H	Peak
17475.000	30.01	32.39	62.40	68.20	-5.80	H	Peak
11650.000	18.43	23.49	41.92	54.00	-12.08	V	AVG
17475.000	19.10	32.39	51.49	54.00	-2.51	V	AVG
11650.000	18.51	23.49	42.00	54.00	-12.00	H	AVG
17475.000	18.56	32.39	50.95	54.00	-3.05	H	AVG

Remark:

1. During the test, pre-scan the 802.11a, 802.11n(HT20), ac(VHT20), n(HT40), ac(VHT40), ac(VHT80) mode, and found the 802.11ac(VHT20) mode is worse case , the report only record this mode.
2. Result =Reading + Factor



**Radiated Band Edge: 5.2G**

Test Mode: IEEE 802.11a							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	37.20	15.99	53.19	68.20	-15.01	H	Peak
5150.00	39.31	15.99	55.30	68.20	-12.90	V	Peak
5150.00	27.08	15.99	43.07	54.00	-10.93	H	AVG
5150.00	29.19	15.99	45.18	54.00	-8.82	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.59	16.43	54.02	68.20	-14.18	H	Peak
5250.00	40.67	16.43	57.10	68.20	-11.10	V	Peak
5250.00	28.99	16.43	45.42	54.00	-8.58	H	AVG
5250.00	29.81	16.43	46.24	54.00	-7.76	V	AVG

Remark: 1. Result =Reading + Factor

Test Mode: IEEE 802.11n(HT20)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.06	15.99	52.05	68.20	-16.15	H	Peak
5150.00	37.52	15.99	53.51	68.20	-14.69	V	Peak
5150.00	26.78	15.99	42.77	54.00	-11.23	H	AVG
5150.00	27.75	15.99	43.74	54.00	-10.26	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.93	16.43	54.36	68.20	-13.84	H	Peak
5250.00	38.92	16.43	55.35	68.20	-12.85	V	Peak
5250.00	27.98	16.43	44.41	54.00	-9.59	H	AVG
5250.00	29.49	16.43	45.92	54.00	-8.08	V	AVG

Remark: 1. Result =Reading + Factor





Test Mode: IEEE 802.11n(HT40)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.71	15.99	52.70	68.20	-15.50	H	Peak
5150.00	38.54	15.99	54.53	68.20	-13.67	V	Peak
5150.00	27.30	15.99	43.29	54.00	-10.71	H	AVG
5150.00	28.84	15.99	44.83	54.00	-9.17	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	38.24	16.43	54.67	68.20	-13.53	H	Peak
5250.00	37.04	16.43	53.47	68.20	-14.73	V	Peak
5250.00	28.55	16.43	44.98	54.00	-9.02	H	AVG
5250.00	29.79	16.43	46.22	54.00	-7.78	V	AVG

Remark: 1. Result =Reading + Factor

Test Mode: IEEE 802.11ac(HT20)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	37.19	15.99	53.18	68.20	-15.02	H	Peak
5150.00	38.98	15.99	54.97	68.20	-13.23	V	Peak
5150.00	26.69	15.99	42.68	54.00	-11.32	H	AVG
5150.00	28.97	15.99	44.96	54.00	-9.04	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	38.01	16.43	54.44	68.20	-13.76	H	Peak
5250.00	38.24	16.43	54.67	68.20	-13.53	V	Peak
5250.00	27.97	16.43	44.40	54.00	-9.60	H	AVG
5250.00	28.61	16.43	45.04	54.00	-8.96	V	AVG

Remark: 1. Result =Reading + Factor



Test Mode: IEEE 802.11ac(HT40)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.12	15.99	52.11	68.20	-16.09	H	Peak
5150.00	36.49	15.99	52.48	68.20	-15.72	V	Peak
5150.00	26.40	15.99	42.39	54.00	-11.61	H	AVG
5150.00	27.04	15.99	43.03	54.00	-10.97	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	38.23	16.43	54.66	68.20	-13.54	H	Peak
5250.00	37.31	16.43	53.74	68.20	-14.46	V	Peak
5250.00	27.62	16.43	44.05	54.00	-9.95	H	AVG
5250.00	27.78	16.43	44.21	54.00	-9.79	V	AVG

Remark: 1. Result =Reading + Factor

Test Mode: IEEE 802.11ac(HT80)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.15	15.99	52.14	68.20	-16.06	H	Peak
5150.00	36.72	15.99	52.71	68.20	-15.49	V	Peak
5150.00	26.88	15.99	42.87	54.00	-11.13	H	AVG
5150.00	27.05	15.99	43.04	54.00	-10.96	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	38.58	16.43	55.01	68.20	-13.19	H	Peak
5250.00	37.67	16.43	54.10	68.20	-14.10	V	Peak
5250.00	29.13	16.43	45.56	54.00	-8.44	H	AVG
5250.00	28.32	16.43	44.75	54.00	-9.25	V	AVG

Remark: 1. Result =Reading + Factor



**Radiated Band Edge: 5.8G**

Test Mode: IEEE 802.11a							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	38.45	16.37	54.82	68.20	-13.38	H	Peak
5725.00	39.93	16.37	56.30	68.20	-11.90	V	Peak
5725.00	29.24	16.70	45.94	54.00	-8.06	H	AVG
5725.00	30.37	16.70	47.07	54.00	-6.93	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	39.45	17.21	56.66	68.20	-11.54	H	Peak
5850.00	39.86	17.21	57.07	68.20	-11.13	V	Peak
5850.00	29.38	17.21	46.59	54.00	-7.41	H	AVG
5850.00	29.34	17.21	46.55	54.00	-7.45	V	AVG

Remark: 1. Result =Reading + Factor

Test Mode: IEEE 802.11n(HT20)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	38.45	17.05	55.50	68.20	-12.70	H	Peak
5725.00	39.10	17.05	56.15	68.20	-12.05	V	Peak
5725.00	27.75	17.05	44.80	54.00	-9.20	H	AVG
5725.00	28.35	17.05	45.40	54.00	-8.60	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.69	17.21	54.90	68.20	-13.30	H	Peak
5850.00	38.22	17.21	55.43	68.20	-12.77	V	Peak
5850.00	28.03	17.21	45.24	54.00	-8.76	H	AVG
5850.00	28.76	17.21	45.97	54.00	-8.03	V	AVG

Remark: 1. Result =Reading + Factor



Test Mode: IEEE 802.11n(HT40)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	38.03	17.05	55.08	68.20	-13.12	H	Peak
5725.00	38.98	17.05	56.03	68.20	-12.17	V	Peak
5725.00	27.27	17.05	44.32	54.00	-9.68	H	AVG
5725.00	28.55	17.05	45.60	54.00	-8.40	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.39	17.21	55.60	68.20	-12.60	H	Peak
5850.00	38.69	17.21	55.90	68.20	-12.30	V	Peak
5850.00	28.59	17.21	45.80	54.00	-8.20	H	AVG
5850.00	29.60	17.21	46.81	54.00	-7.19	V	AVG

Remark: 1. Result =Reading + Factor

Test Mode: IEEE 802.11ac(HT20)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.62	17.05	54.67	68.20	-13.53	H	Peak
5725.00	37.65	17.05	54.70	68.20	-13.50	V	Peak
5725.00	28.47	17.05	45.52	54.00	-8.48	H	AVG
5725.00	29.40	17.05	46.45	54.00	-7.55	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.36	17.21	55.57	68.20	-12.63	H	Peak
5850.00	39.20	17.21	56.41	68.20	-11.79	V	Peak
5850.00	28.19	17.21	45.40	54.00	-8.60	H	AVG
5850.00	29.36	17.21	46.57	54.00	-7.43	V	AVG

Remark: 1. Result =Reading + Factor



Test Mode: IEEE 802.11ac(HT40)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	36.54	17.05	53.59	68.20	-14.61	H	Peak
5725.00	37.99	17.05	55.04	68.20	-13.16	V	Peak
5725.00	27.75	17.05	44.80	54.00	-9.20	H	AVG
5725.00	28.41	17.05	45.46	54.00	-8.54	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.87	17.21	55.08	68.20	-13.12	H	Peak
5850.00	38.80	17.21	56.01	68.20	-12.19	V	Peak
5850.00	27.89	17.21	45.10	54.00	-8.90	H	AVG
5850.00	27.59	17.21	44.80	54.00	-9.20	V	AVG

Remark: 1. Result =Reading + Factor

Test Mode: IEEE 802.11ac(HT80)							
Test channel: Lowest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	35.80	17.05	52.85	68.20	-15.35	H	Peak
5725.00	37.40	17.05	54.45	68.20	-13.75	V	Peak
5725.00	26.94	17.05	43.99	54.00	-10.01	H	AVG
5725.00	27.39	17.05	44.44	54.00	-9.56	V	AVG
Test channel: Highest							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.02	17.21	55.23	68.20	-12.97	H	Peak
5850.00	38.22	17.21	55.43	68.20	-12.77	V	Peak
5850.00	28.54	17.21	45.75	54.00	-8.25	H	AVG
5850.00	28.57	17.21	45.78	54.00	-8.22	V	AVG

Remark: 1. Result =Reading + Factor

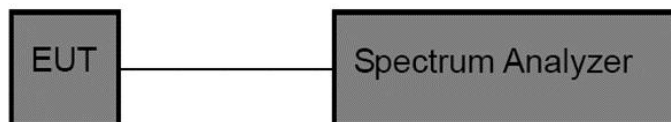


## 5. Maximum Conducted Output Power Test

### 5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.407(a)	
Test Limit	5.15 - 5.25GHz	1) Outdoor AP The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm). if $GT_x > 6\text{dBi}$ , then $P_{out} = 30 - (GT_x - 6)$ . e.i.r.p. at any elevation angle above 30 degrees $\leq 125\text{mW}$ (21dBm) 2) Indoor AP The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm). if $GT_x > 6\text{dBi}$ , then $P_{out} = 30 - (GT_x - 6)$ . 3) Point-to-point AP The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm). if $GT_x > 23\text{dBi}$ , then $P_{out} = 30 - (GT_x - 23)$ . 4) Client devices The maximum conducted output power (Pout) shall not exceed the lesser of 250W (23.98dBm). if $GT_x > 6\text{dBi}$ , then $P_{out} = 24 - (GT_x - 6)$ .
	5.25 - 5.35GHz	The maximum conducted output power (Pout) shall not exceed the lesser of 250mW (24dBm) or $11\text{dBm} + 10 \log B$ , where B is the 26dB emission bandwidth in MHz. if $GT_x > 6\text{dBi}$ , then $P_{out} = 24 - (GT_x - 6)$ .
	5.47- 5.725GHz	The maximum conducted output power (Pout) shall not exceed the lesser of 250mW (23.98dBm) or $11\text{dBm} + 10 \log B$ , where B is the 26dB emission bandwidth in MHz. if $GT_x > 6\text{dBi}$ , then $P_{out} = 24 - (GT_x - 6)$ .
	5.725 - 5.85GHz	1) Point-to-multipoint systems (P2M) The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm). if $GT_x > 6\text{dBi}$ , then $P_{out} = 30 - (GT_x - 6)$ . 2) Point-to-point systems (P2P) The maximum conducted output power (Pout) shall not exceed the lesser of 1W (30dBm).

### 5.2. Test Setup



### 5.3. Test Procedure

1. Measure the duty cycle D of the transmitter output signal.
2. Set span to encompass the entire 99% OBW of the signal.
3. Set RBW = 1 MHz.
4. Set VBW  $\geq [3 \times \text{RBW}]$ .



5. Number of points in sweep  $\geq [2 \times \text{span} / \text{RBW}]$ .
6. Sweep time = auto.
7. Detector = RMS
8. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
9. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
10. Add  $[10 \log (1 / D)]$ , where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

#### 5.4. Test Data

Pass

Please refer to Appendix C of the Appendix Test Data.

#### Additional test for duty cycle.

Please refer to Appendix B of the Appendix Test Data.

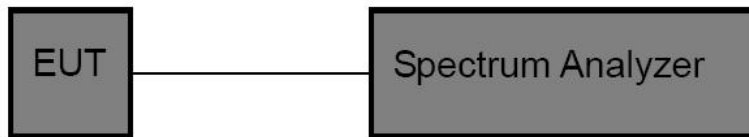


## 6. 26dB Bandwidth & 99% Occupied Bandwidth Test

### 6.1. Test Standard

Test Standard	FCC Part15 C Section 15.407(a) & 2.1049
Test Limit	N/A

### 6.2. Test Setup



### 6.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as:
  - 26 dB & 99% bandwidth**
  - RBW = approximately 1% of the emission bandwidth;
  - Set the VBW>RBW;
  - Detector= Peak
  - Trace mode= Max hold.
  - Sweep- auto couple.
4. Measure the maximum width of the emission that is 26dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer.
5. Repeat until all the rest channels are investigated.

### 6.4. Test Data

Pass

Please refer to Appendix A1&A2 of the Appendix Test Data.



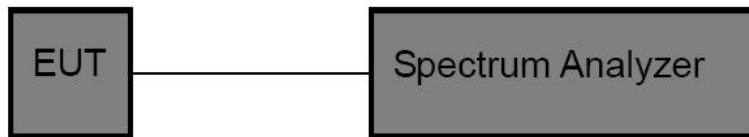


## 7. Minimum 6dB Bandwidth Test

### 7.1. Test Standard

Test Standard	FCC Part15 C Section 15.407(e)
Test Limit	≥500 kHz

### 7.2. Test Setup



### 7.3. Test Procedure

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as:
  - 6 dB bandwidth**
  - RBW = approximately 1% of the emission bandwidth;
  - Set the VBW > RBW;
  - Detector= Peak
  - Trace mode= Max hold.
  - Sweep- auto couple.
4. Measure the maximum width of the emission that is 6dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer.
5. Repeat until all the rest channels are investigated.

### 7.4. Test Data

Pass

Please refer to Appendix A3 of the Appendix Test Data.

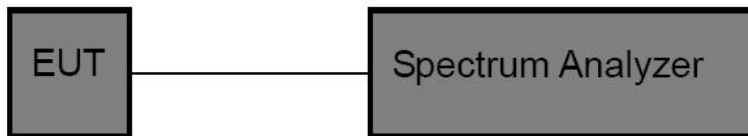


## 8. Maximum Power Spectral Density Test

### 8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.407(a)	
Test Limit	5.15 - 5.25GHz	1) Outdoor AP The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. if $GT_x > 6dBi$ , then $PSD = 17 - (GT_x - 6)$ . 2) Indoor AP The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. if $GT_x > 6dBi$ , then $PSD = 17 - (GT_x - 6)$ . 3) Point-to-point AP The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz. if $GT_x > 23dBi$ , then $PSD = 17 - (GT_x - 23)$ . 4) Client devices The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. if $GT_x > 6dBi$ , then $PSD = 11 - (GT_x - 6)$ .
	5.25 - 5.35GHz	The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. if $GT_x > 6dBi$ , then $PSD = 11 - (GT_x - 6)$ .
	5.47- 5.725GHz	The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz. if $GT_x > 6dBi$ , then $PSD = 11 - (GT_x - 6)$ .
	5.725 - 5.85GHz	1) Point-to-multipoint systems (P2M) The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz. if $GT_x > 6dBi$ , then $PSD = 30 - (GT_x - 6)$ . 2) Point-to-point systems (P2P) The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

### 8.2. Test Setup



### 8.3. Test Procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz).

1. The EUT is directly connected to the spectrum analyzer;
2. Set RBW =1MHz;
3. Set VBW ≥ 3 RBW=3MHz;



3. Set the span to encompass the entire emissions bandwidth (EBW) of the signal;
5. Detector=RMS;
6. Sweep time= auto couple;
7. Trace mode=max. hold;

#### **8.4. Test Data**

Pass

Please refer to Appendix D of the Appendix Test Data.

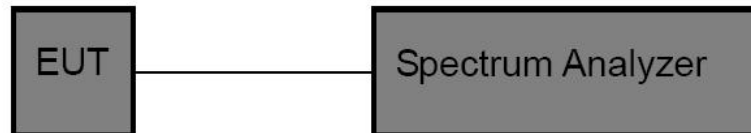


## 9. Conducted Band Edge Test

### 9.1. Test Standard and Limit

Test Standard	15.407(b)			
Test Limit	Operating Band	Frequency	EIRP Limit	Remark
	5150-5250MHz	Out of operation band	-27dBm/MHz	Peak
	5250-5350MHz	Out of operation band	-27dBm/MHz	Peak
	5470-5725MHz	Out of operation band	-27dBm/MHz	Peak
	5725-5850 MHz	Below 5.65GHz	-27dBm/MHz	Peak
		5.65GHz-5.7GHz	-27dBm/MHz to 10dBm/MHz	Peak
		5.7GHz-5.72GHz	10dBm/MHz to 15.6dBm/MHz	Peak
		5.72GHz-5.725GHz	15.6dBm/MHz to 27dBm/MHz	Peak
		5.85GHz-5.855GHz	27dBm/MHz to 15.6dBm/MHz	Peak
		5.855GHz-5.875GHz	15.6dBm/MHz to 10dBm/MHz	Peak
5.875GHz-5.925GHz		10dBm/MHz to -27dBm/MHz	Peak	
Above 5.925GHz	-27dBm/MHz	Peak		

### 9.2. Test Setup



### 9.3. Test Procedure

Using the following spectrum analyzer setting:

1. Set the RBW = 1MHz.
2. Set the VBW = 3MHz.
3. Sweep time = auto couple.
4. Detector function = peak.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.

### 9.4. Test Data

Pass

Please refer to Appendix E of the Appendix Test Data.

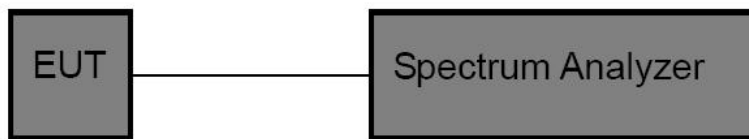


## 10. Frequency Stability

### 10.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.407(g)
Test Limit	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

### 10.2. Test Setup



### 10.3. Test Procedure

The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

### 10.4. Test Data

Pass

Please to see the following pages.



Test Mode: 5.2G								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit	Verdict	
802.11a	SISO	5180	20	3.23	5180.00	5172 to 5188	Pass	
				3.80	5180.10	5172 to 5188	Pass	
				4.37	5180.04	5172 to 5188	Pass	
			-30	3.80	5180.04	5172 to 5188	Pass	
				3.80	5180.06	5150 to 5250	Pass	
			-20	3.80	5180.07	5150 to 5250	Pass	
				3.80	5180.03	5150 to 5250	Pass	
			10	3.80	5180.10	5150 to 5250	Pass	
				3.80	5180.05	5150 to 5250	Pass	
			40	3.80	5180.03	5150 to 5250	Pass	
		3.80		5180.04	5172 to 5188	Pass		
		5200	20	20	3.23	5200.09	5192 to 5208	Pass
					3.80	5200.09	5192 to 5208	Pass
					4.37	5200.09	5192 to 5208	Pass
			-30	3.80	5200.04	5192 to 5208	Pass	
				3.80	5200.11	5150 to 5250	Pass	
			-20	3.80	5200.05	5150 to 5250	Pass	
				3.80	5200.06	5150 to 5250	Pass	
			10	3.80	5200.03	5150 to 5250	Pass	
				3.80	5200.08	5150 to 5250	Pass	
			40	3.80	5200.04	5150 to 5250	Pass	
		3.80		5200.09	5192 to 5208	Pass		
		5240	20	20	3.23	5240.12	5232 to 5248	Pass
					3.80	5240.10	5232 to 5248	Pass
					4.37	5240.02	5232 to 5248	Pass
			-30	3.80	5240.06	5232 to 5248	Pass	
				3.80	5240.03	5150 to 5250	Pass	
			-20	3.80	5240.06	5150 to 5250	Pass	
				3.80	5240.09	5150 to 5250	Pass	
			10	3.80	5240.03	5150 to 5250	Pass	
3.80	5240.05			5150 to 5250	Pass			
40	3.80		5240.13	5150 to 5250	Pass			
	3.80	5240.07	5232 to 5248	Pass				
802.11n (HT20)	SISO	5180	20	3.23	5180.12	5172 to 5188	Pass	
				3.80	5180.02	5172 to 5188	Pass	
				4.37	5180.05	5172 to 5188	Pass	
			-30	3.80	5180.09	5172 to 5188	Pass	
				3.80	5180.04	5150 to 5250	Pass	



			-10	3.80	5180.02	5150 to 5250	Pass		
			0	3.80	5180.13	5150 to 5250	Pass		
			10	3.80	5180.03	5150 to 5250	Pass		
			30	3.80	5180.13	5150 to 5250	Pass		
			40	3.80	5180.07	5150 to 5250	Pass		
			50	3.80	5180.12	5172 to 5188	Pass		
		5200	20	3.23	5200.06	5192 to 5208	Pass		
				3.80	5200.03	5192 to 5208	Pass		
				4.37	5200.00	5192 to 5208	Pass		
			-30	3.80	5200.11	5192 to 5208	Pass		
			-20	3.80	5200.07	5150 to 5250	Pass		
			-10	3.80	5200.07	5150 to 5250	Pass		
			0	3.80	5200.11	5150 to 5250	Pass		
			10	3.80	5200.01	5150 to 5250	Pass		
			30	3.80	5200.01	5150 to 5250	Pass		
			40	3.80	5200.12	5150 to 5250	Pass		
			50	3.80	5200.10	5192 to 5208	Pass		
			5240	20	3.23	5240.08	5232 to 5248	Pass	
		3.80			5240.07	5232 to 5248	Pass		
		4.37			5240.10	5232 to 5248	Pass		
		-30		3.80	5240.04	5232 to 5248	Pass		
		-20		3.80	5240.09	5150 to 5250	Pass		
		-10		3.80	5240.04	5150 to 5250	Pass		
		0		3.80	5240.10	5150 to 5250	Pass		
		10		3.80	5240.01	5150 to 5250	Pass		
		30		3.80	5240.03	5150 to 5250	Pass		
		40		3.80	5240.04	5150 to 5250	Pass		
		50	3.80	5240.07	5232 to 5248	Pass			
		802.11n (HT40)	SISO	5190	20	3.23	5190.10	5174 to 5206	Pass
						3.80	5190.11	5174 to 5206	Pass
						4.37	5190.01	5174 to 5206	Pass
					-30	3.80	5190.12	5174 to 5206	Pass
					-20	3.80	5190.04	5150 to 5250	Pass
					-10	3.80	5190.04	5150 to 5250	Pass
					0	3.80	5190.06	5150 to 5250	Pass
					10	3.80	5190.11	5150 to 5250	Pass
30	3.80				5190.04	5150 to 5250	Pass		
40	3.80			5190.09	5150 to 5250	Pass			
50	3.80			5190.02	5174 to 5206	Pass			
5230	20			3.23	5230.09	5214 to 5246	Pass		
				3.80	5230.02	5214 to 5246	Pass		



				4.37	5230.10	5214 to 5246	Pass
			-30	3.80	5230.04	5214 to 5246	Pass
			-20	3.80	5230.08	5150 to 5250	Pass
			-10	3.80	5230.06	5150 to 5250	Pass
			0	3.80	5230.02	5150 to 5250	Pass
			10	3.80	5230.03	5150 to 5250	Pass
			30	3.80	5230.05	5150 to 5250	Pass
			40	3.80	5230.03	5150 to 5250	Pass
			50	3.80	5230.13	5214 to 5246	Pass
802.11ac (VHT20)	SISO	5180	20	3.23	5180.10	5172 to 5188	Pass
				3.80	5180.05	5172 to 5188	Pass
				4.37	5180.06	5172 to 5188	Pass
			-30	3.80	5180.05	5172 to 5188	Pass
			-20	3.80	5180.06	5150 to 5250	Pass
			-10	3.80	5180.09	5150 to 5250	Pass
			0	3.80	5180.07	5150 to 5250	Pass
			10	3.80	5180.00	5150 to 5250	Pass
			30	3.80	5180.02	5150 to 5250	Pass
		40	3.80	5180.06	5150 to 5250	Pass	
		50	3.80	5180.09	5172 to 5188	Pass	
		5200	20	3.23	5200.11	5192 to 5208	Pass
				3.80	5200.05	5192 to 5208	Pass
				4.37	5200.01	5192 to 5208	Pass
			-30	3.80	5200.11	5192 to 5208	Pass
			-20	3.80	5200.05	5150 to 5250	Pass
			-10	3.80	5200.11	5150 to 5250	Pass
			0	3.80	5200.02	5150 to 5250	Pass
			10	3.80	5200.01	5150 to 5250	Pass
			30	3.80	5200.13	5150 to 5250	Pass
		40	3.80	5200.08	5150 to 5250	Pass	
		50	3.80	5200.13	5192 to 5208	Pass	
		5240	20	3.23	5240.07	5232 to 5248	Pass
				3.80	5240.11	5232 to 5248	Pass
				4.37	5240.11	5232 to 5248	Pass
			-30	3.80	5240.01	5232 to 5248	Pass
			-20	3.80	5240.02	5150 to 5250	Pass
-10	3.80		5240.07	5150 to 5250	Pass		
0	3.80		5240.06	5150 to 5250	Pass		
10	3.80		5240.03	5150 to 5250	Pass		
30	3.80		5240.07	5150 to 5250	Pass		
40	3.80	5240.10	5150 to 5250	Pass			





			50	3.80	5240.08	5232 to 5248	Pass
802.11ac (VHT40)	SISO	5190	20	3.23	5190.09	5174 to 5206	Pass
				3.80	5190.11	5174 to 5206	Pass
				4.37	5190.09	5174 to 5206	Pass
			-30	3.80	5190.12	5174 to 5206	Pass
			-20	3.80	5190.07	5150 to 5250	Pass
			-10	3.80	5190.11	5150 to 5250	Pass
			0	3.80	5190.10	5150 to 5250	Pass
			10	3.80	5190.10	5150 to 5250	Pass
			30	3.80	5190.06	5150 to 5250	Pass
		40	3.80	5190.11	5150 to 5250	Pass	
		50	3.80	5190.06	5174 to 5206	Pass	
		5230	20	3.23	5230.01	5214 to 5246	Pass
				3.80	5230.08	5214 to 5246	Pass
				4.37	5230.12	5214 to 5246	Pass
			-30	3.80	5230.01	5214 to 5246	Pass
			-20	3.80	5230.13	5150 to 5250	Pass
			-10	3.80	5230.06	5150 to 5250	Pass
			0	3.80	5230.10	5150 to 5250	Pass
			10	3.80	5230.08	5150 to 5250	Pass
30	3.80		5230.06	5150 to 5250	Pass		
40	3.80		5230.13	5150 to 5250	Pass		
50	3.80	5230.01	5214 to 5246	Pass			
802.11ac (VHT80)	SISO	5210	20	3.23	5210.02	5178 to 5242	Pass
				3.80	5210.00	5178 to 5242	Pass
				4.37	5210.08	5178 to 5242	Pass
			-30	3.80	5210.07	5178 to 5242	Pass
			-20	3.80	5210.05	5150 to 5250	Pass
			-10	3.80	5210.13	5150 to 5250	Pass
			0	3.80	5210.10	5150 to 5250	Pass
			10	3.80	5210.06	5150 to 5250	Pass
			30	3.80	5210.05	5150 to 5250	Pass
			40	3.80	5210.12	5150 to 5250	Pass
50	3.80	5210.01	5178 to 5242	Pass			



Test Mode: 5.8G								
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit	Verdict	
802.11a	SISO	5745	20	3.23	5745.13	5737 to 5753	Pass	
				3.80	5745.06	5737 to 5753	Pass	
				4.37	5745.03	5737 to 5753	Pass	
			-30	3.23	5745.08	5737 to 5753	Pass	
				-20	3.80	5745.05	5725 to 5850	Pass
					3.80	5745.13	5725 to 5850	Pass
			0	3.80	5745.06	5725 to 5850	Pass	
				10	3.80	5745.02	5725 to 5850	Pass
			30	3.80	5745.08	5725 to 5850	Pass	
			40	3.80	5745.00	5725 to 5850	Pass	
		50	3.80	5745.12	5737 to 5753	Pass		
		5785	20	3.23	5785.06	5777 to 5793	Pass	
				3.80	5785.09	5777 to 5793	Pass	
				4.37	5785.01	5777 to 5793	Pass	
			-30	3.23	5785.07	5777 to 5793	Pass	
				-20	3.80	5785.00	5725 to 5850	Pass
					3.80	5785.05	5725 to 5850	Pass
			0	3.80	5785.03	5725 to 5850	Pass	
				10	3.80	5785.04	5725 to 5850	Pass
			30	3.80	5785.08	5725 to 5850	Pass	
			40	3.80	5785.04	5725 to 5850	Pass	
		50	3.80	5785.03	5777 to 5793	Pass		
		5825	20	3.23	5825.07	5817 to 5833	Pass	
				3.80	5825.02	5817 to 5833	Pass	
				4.37	5825.10	5817 to 5833	Pass	
			-30	3.23	5825.04	5817 to 5833	Pass	
				-20	3.80	5825.12	5725 to 5850	Pass
					3.80	5825.12	5725 to 5850	Pass
			0	3.80	5825.06	5725 to 5850	Pass	
				10	3.80	5825.11	5725 to 5850	Pass
30	3.80		5825.10	5725 to 5850	Pass			
40	3.80		5825.12	5725 to 5850	Pass			
50	3.80	5825.09	5817 to 5833	Pass				
802.11n (HT20)	SISO	5745	20	3.23	5745.02	5737 to 5753	Pass	
				3.80	5745.07	5737 to 5753	Pass	
				4.37	5745.11	5737 to 5753	Pass	
			-30	3.23	5745.11	5737 to 5753	Pass	
				3.80	5745.09	5725 to 5850	Pass	



			-10	3.80	5745.13	5725 to 5850	Pass		
			0	3.80	5745.10	5725 to 5850	Pass		
			10	3.80	5745.04	5725 to 5850	Pass		
			30	3.80	5745.07	5725 to 5850	Pass		
			40	3.80	5745.03	5725 to 5850	Pass		
			50	3.80	5745.05	5737 to 5753	Pass		
		5785	20	3.23	5785.04	5777 to 5793	Pass		
				3.80	5785.12	5777 to 5793	Pass		
				4.37	5785.04	5777 to 5793	Pass		
			-30	3.23	5785.01	5777 to 5793	Pass		
			-20	3.80	5785.13	5725 to 5850	Pass		
			-10	3.80	5785.12	5725 to 5850	Pass		
			0	3.80	5785.01	5725 to 5850	Pass		
			10	3.80	5785.04	5725 to 5850	Pass		
			30	3.80	5785.04	5725 to 5850	Pass		
			40	3.80	5785.06	5725 to 5850	Pass		
			50	3.80	5785.08	5777 to 5793	Pass		
			5825	20	3.23	5825.04	5817 to 5833	Pass	
		3.80			5825.08	5817 to 5833	Pass		
		4.37			5825.12	5817 to 5833	Pass		
		-30		3.23	5825.10	5817 to 5833	Pass		
		-20		3.80	5825.07	5725 to 5850	Pass		
		-10		3.80	5825.02	5725 to 5850	Pass		
		0		3.80	5825.12	5725 to 5850	Pass		
		10		3.80	5825.10	5725 to 5850	Pass		
		30		3.80	5825.01	5725 to 5850	Pass		
		40		3.80	5825.02	5725 to 5850	Pass		
		50	3.80	5825.06	5817 to 5833	Pass			
		802.11n (HT40)	SISO	5755	20	3.23	5755.06	5739 to 5771	Pass
						3.80	5755.11	5739 to 5771	Pass
						4.37	5755.11	5739 to 5771	Pass
					-30	3.23	5755.10	5739 to 5771	Pass
					-20	3.80	5755.09	5725 to 5850	Pass
-10	3.80				5755.13	5725 to 5850	Pass		
0	3.80				5755.09	5725 to 5850	Pass		
10	3.80				5755.12	5725 to 5850	Pass		
30	3.80				5755.08	5725 to 5850	Pass		
40	3.80			5755.03	5725 to 5850	Pass			
50	3.80			5755.07	5739 to 5771	Pass			
5795	20			3.23	5795.04	5779 to 5811	Pass		
				3.80	5795.07	5779 to 5811	Pass		



				4.37	5795.03	5779 to 5811	Pass
			-30	3.23	5795.01	5779 to 5811	Pass
			-20	3.80	5795.06	5725 to 5850	Pass
			-10	3.80	5795.01	5725 to 5850	Pass
			0	3.80	5795.04	5725 to 5850	Pass
			10	3.80	5795.11	5725 to 5850	Pass
			30	3.80	5795.10	5725 to 5850	Pass
			40	3.80	5795.11	5725 to 5850	Pass
			50	3.80	5795.06	5779 to 5811	Pass
802.11ac (VHT20)	SISO	5745	20	3.23	5745.02	5737 to 5753	Pass
				3.80	5745.06	5737 to 5753	Pass
				4.37	5745.03	5737 to 5753	Pass
			-30	3.23	5745.12	5737 to 5753	Pass
			-20	3.80	5745.07	5725 to 5850	Pass
			-10	3.80	5745.11	5725 to 5850	Pass
			0	3.80	5745.03	5725 to 5850	Pass
			10	3.80	5745.10	5725 to 5850	Pass
			30	3.80	5745.12	5725 to 5850	Pass
		40	3.80	5745.13	5725 to 5850	Pass	
		50	3.80	5745.07	5737 to 5753	Pass	
		5785	20	3.23	5785.05	5777 to 5793	Pass
				3.80	5785.03	5777 to 5793	Pass
				4.37	5785.00	5777 to 5793	Pass
			-30	3.23	5785.01	5777 to 5793	Pass
			-20	3.80	5785.01	5725 to 5850	Pass
			-10	3.80	5785.07	5725 to 5850	Pass
			0	3.80	5785.09	5725 to 5850	Pass
			10	3.80	5785.04	5725 to 5850	Pass
			30	3.80	5785.08	5725 to 5850	Pass
		40	3.80	5785.12	5725 to 5850	Pass	
		50	3.80	5785.00	5777 to 5793	Pass	
		5825	20	3.23	5825.09	5817 to 5833	Pass
				3.80	5825.09	5817 to 5833	Pass
				4.37	5825.00	5817 to 5833	Pass
			-30	3.23	5825.00	5817 to 5833	Pass
			-20	3.80	5825.05	5725 to 5850	Pass
-10	3.80		5825.11	5725 to 5850	Pass		
0	3.80		5825.09	5725 to 5850	Pass		
10	3.80		5825.01	5725 to 5850	Pass		
30	3.80		5825.03	5725 to 5850	Pass		
40	3.80	5825.12	5725 to 5850	Pass			



			50	3.80	5825.06	5817 to 5833	Pass
802.11ac (VHT40)	SISO	5755	20	3.23	5755.09	5739 to 5771	Pass
				3.80	5755.09	5739 to 5771	Pass
				4.37	5755.07	5739 to 5771	Pass
			-30	3.23	5755.12	5739 to 5771	Pass
			-20	3.80	5755.13	5725 to 5850	Pass
			-10	3.80	5755.08	5725 to 5850	Pass
			0	3.80	5755.13	5725 to 5850	Pass
			10	3.80	5755.13	5725 to 5850	Pass
			30	3.80	5755.06	5725 to 5850	Pass
		40	3.80	5755.07	5725 to 5850	Pass	
		50	3.80	5755.06	5739 to 5771	Pass	
		5795	20	3.23	5795.07	5779 to 5811	Pass
				3.80	5795.07	5779 to 5811	Pass
				4.37	5795.07	5779 to 5811	Pass
			-30	3.23	5795.01	5779 to 5811	Pass
			-20	3.80	5795.02	5725 to 5850	Pass
			-10	3.80	5795.07	5725 to 5850	Pass
			0	3.80	5795.08	5725 to 5850	Pass
			10	3.80	5795.12	5725 to 5850	Pass
30	3.80		5795.08	5725 to 5850	Pass		
40	3.80		5795.02	5725 to 5850	Pass		
50	3.80	5795.01	5779 to 5811	Pass			
802.11ac (VHT80)	SISO	5775	20	3.23	5775.05	5743 to 5807	Pass
				3.80	5775.03	5743 to 5807	Pass
				4.37	5775.02	5743 to 5807	Pass
			-30	3.23	5775.00	5743 to 5807	Pass
			-20	3.80	5775.09	5725 to 5850	Pass
			-10	3.80	5775.08	5725 to 5850	Pass
			0	3.80	5775.02	5725 to 5850	Pass
			10	3.80	5775.11	5725 to 5850	Pass
			30	3.80	5775.12	5725 to 5850	Pass
			40	3.80	5775.05	5725 to 5850	Pass
			50	3.80	5775.06	5743 to 5807	Pass



## 11. Antenna Requirement

### 11.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /15.407
Requirement	<p>1) 15.203 requirement: 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.</p> <p>2) 15.407 requirement: if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.</p>

### 11.2. Antenna Connected Construction

The antenna is a FPC Antenna which permanently attached, and the best case gain of the WiFi 5.2G: 2.32dBi, WiFi 5.8G: 2.88dBi. It complies with the standard requirement.



## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

## **APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to separated files Appendix II -- External Photograph

## **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

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

