Shenzhen Most Technology Service Co., Ltd.
No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15 SUBPART E 15.407

Report Reference No......:	**MTWG22040362-R1**
FCC ID..... :	**2AL26-SG100**
Compiled by (position+printed name+signature)..:	File administrators Alisa Luo
Supervised by (position+printed name+signature)..:	Test Engineer Sunny Deng
Approved by (position+printed name+signature)..:	Manager Yvette Zhou
Date of issue.....:	May 23,2022
Representative Laboratory Name .:	**Shenzhen Most Technology Service Co., Ltd.**
Address .....:	No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.
Applicant's name.....:	**Reveal Media Ltd.**
Address .....:	Riverview House, 20 Old Bridge Street, Hampton Wick, KT1 4BU. UK
Test specification .....**:**	
Standard .....:	**FCC Part 15 Subpart E 15.407**

Test item description .....:	Smart Gateway
Trade Mark .....:	Reveal Media
Manufacturer.....:	**Reveal Media Hong Kong Ltd.**
Model/Type reference.....:	SG100
Listed Models .....:	N/A
Ratings .....:	DC 5V by Adapter
Modulation .....:	OFDM
Frequency.....	From 5180MHz-5240MHz；5260MHz-5320MHz；5500MHz-5700MHz
Hardware version .....:	Raspberry Pi 4 Model B Rev 1.4
Software version .....:	Raspbian GNU/Linux 11 (bullseye)
Result.....:	**PASS**

T E S T R E P O R T

Equipment under Test	:	Smart Gateway
Model /Type	:	SG100
Listed Models	:	**N/A**
Applicant	:	Reveal Media Ltd.
Address	:	Riverview House, 20 Old Bridge Street, Hampton Wick, KT1 4BU. UK
Manufacturer	:	Reveal Media Hong Kong Ltd.
Address	:	6/F., Luk Kwok Centre, 72 Gloucester Road, Wan Chi, Hong Kong.

Test Result:	**PASS**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

1 Revision History

Revision	Issue Date	Revisions	Revised By
00	2022-05-23	Initial Issue	Alisa Luo

2 TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15 Subpart E—Unlicensed National Information Infrastructure Devices
ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices
KDB789033 D02: General UNII Test Procedures New Rules v01r02

3 SUMMARY

3.1 General Remarks

Date of receipt of test sample	:	2022.05.05
Testing commenced on	:	2022.05.06
Testing concluded on	:	2022.05.23

3.2 Product Description

Product Description:	Smart Gateway			
Model:	SG100			
Power supply:	DC 5V by Adapter			
Testing sample ID:	MT22030373			
WIFI				
Supported type:	20MHz system	40MHz system	80MHz system	160MHz system
	802.11a 802.11n 802.11ac	N/A	N/A	N/A
Operation frequency:	5180MHz-5240MHz 5260MHz-5320MHz 5500MHz-5700MHz	N/A	N/A	N/A
Modulation:	OFDM	N/A	N/A	N/A
Antenna type:	PCB antenna			
Antenna gain:	5180MHz-5240MHz:3dBi, 5260MHz-5320MHz:3dBi, 5500MHz-5700MHz:3dBi,			

3.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	○	230V / 50 Hz	○	120V / 60Hz
		○	12 V DC	○	24 V DC
		●	Other (specified in blank below)		

DC 5V by Adapter

3.4 Short description of the Equipment under Test (EUT)

This is a GPS Device

For more details, refer to the user's manual of the EUT.

3.5 EUT operation mode

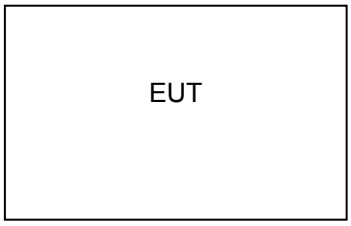
The Applicant provides communication tools software (AT command) to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing.
All test performed at the low, middle and high of operational frequency range of each mode.

Operation Frequency List WIFI on 5G Band：

Operating band	20MHz		40MHz		80MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII 1 (5150MHz-5250MHz)	**36**	**5180**	**N/A**	**N/A**	**N/A**	**N/A**
	40	**5200**				
	44	5220	**N/A**	**N/A**		
	48	**5240**				
U-NII 2A	**52**	**5260**	**N/A**	**N/A**	**N/A**	**N/A**
	56	**5280**				
	60	5300	**N/A**	**N/A**		
	64	**5320**				
U-NII 2C	**100**	**5500**	**N/A**	**N/A**	**N/A**	**N/A**
	104	5520				
	108	5540	**N/A**	**N/A**		
	112	5560				
	116	5580	**N/A**	**N/A**	**N/A**	**N/A**
	120	**5600**				
	124	5620	**N/A**	**N/A**		
	128	5640				
	132	5660	**N/A**	**N/A**	**N/A**	**N/A**
	140	**5700**			**N/A**	**N/A**

Note: The line display in grey is those Channels/Frequencies select to test in this report for each operation mode.

3.6 Block Diagram of Test Setup



3.1 Test Item (Equipment Under Test) Description*

Short designation	EUT Name	EUT Description	Serial number	Hardware status	Software status
EUT A					
EUT B					

*: declared by the applicant. According to customers information EUTs A and B are the same devices.

3.2 Auxiliary Equipment (AE) Description

AE short designation	EUT Name (if available)	EUT Description	Serial number (if available)	Software (if used)
AE 1	-			
AE 2	-			

3.3 Antenna Information*

Short designation	Antenna Name	Antenna Type	Frequency Range	Serial number	Antenna Peak Gain
Antenna 1	---	PCB antenna	5180MHz-5240MHz 5260MHz-5320MHz 5500MHz-5700MHz	---	3dBi
Antenna 2					

*: declared by the applicant.

3.4 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section 15.407 of the FCC Part 15, Subpart E Rules.

3.5 Modifications

No modifications were implemented to meet testing criteria.

4 TEST ENVIRONMENT

4.1 Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.
No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

4.2 Test Facility

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

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

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. 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.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.3 Environmental conditions

Radiated Emission:

Temperature:	23 ° C
Humidity:	48 %
Atmospheric pressure:	950-1050mbar

AC Main Conducted testing：

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Conducted testing：

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

4.4 Test Description

FCC Requirement		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.407(a)	Emission Bandwidth(26dBm Bandwidth)	$PASS_{Note1}$
FCC Part 15.407(e)	Minimum Emission Bandwidth(6dBm Bandwidth)	$PASS_{Note2}$
FCC Part 15.407(a)	Maximum Conducted Output Power	PASS
FCC Part 15.407(a)	Peak Power Spectral Density	PASS
FCC Part 15.407(g)	Frequency Stability	PASS
FCC Part 15.407(b)	Undesirable emission	PASS
FCC Part 15.407(b)/15.205/15.209	Radiated Emissions	PASS
FCC Part 15.407(h)	Dynamic Frequency Selection	PASS $_{Note\ 3}$
FCC Part 15.203/15.247(b)	Antenna Requirement	PASS

Note 1: Apply to U-NII 1, U-NII 2A, and U-NII 2C band.
Note 2: Apply to U-NII 3 band only.
Note 3: Reference DFS report.

Data Rate Used:
Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate
Maximum Conducted Output Power Power Spectral Density Emission Bandwidth(26dBm Bandwidth) Minimum Emission Bandwidth(6dBm Bandwidth) Undesirable emission Frequency Stability	11a/OFDM	54 Mbps
	11n(20MHz)	MCS0
	N/A	N/A
	N/A	N/A

4.5 Statement of the measurement uncertainty

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

Hereafter the best measurement capability for Shenzhen Most Technology Service Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 Db	(1)
Radiated Emission	1~18GHz	4.32 Db	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

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

4.6 Equipments Used during the Test

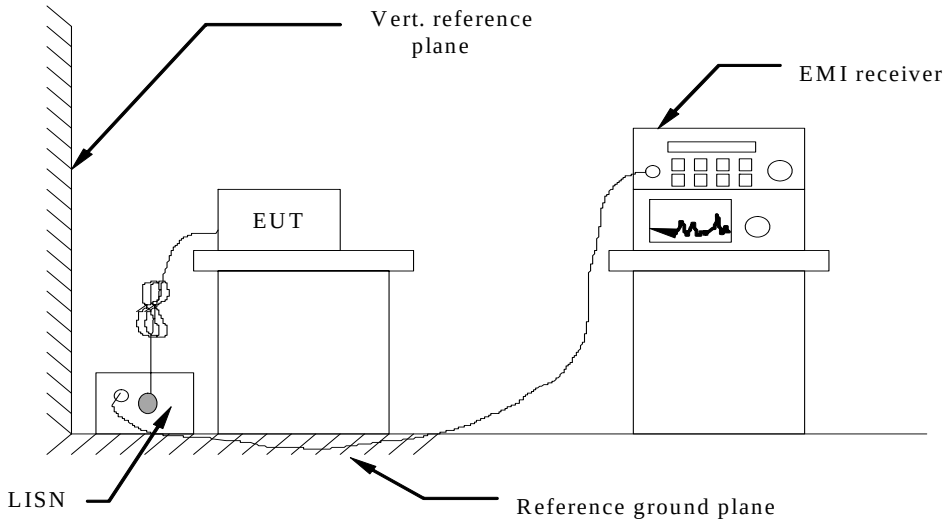
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	100093	2022/04/18	1 Year
2	Three-phase artificial power network	Schwarzback Mess	NNLK8129	8129178	2022/04/18	1 Year
3.	Receiver	R&S	ESCI	100492	2022/04/06	1 Year
4	Receiver	R&S	ESPI	101202	2022/04/06	1 Year
5	Spectrum analyzer	Agilent	9020A	MT-E306	2022/04/06	1 Year
6	Bilong Antenna	Sunol Sciences	JB3	A121206	2022/03/13	1 Year
7	Horn antenna	HF Antenna	HF Antenna	MT-E158	2022/04/06	1 Year
8	Loop antenna	Beijing Daze	ZN30900B	/	2022/04/17	1 Year
9	Horn antenna	R&S	OBH100400	26999002	2022/04/17	1 Year
10	Wireless Communication Test Set	R&S	CMW500	/	2022/04/17	1 Year
11	Spectrum analyzer	R&S	FSP	100019	2022/04/16	1 Year
12	High gain antenna	Schwarzbeck	LB-180400KF	MT-E389	2022/03/13	1 Year
13	Preamplifier	Schwarzbeck	BBV 9743	MT-E390	2022/03/13	1 Year
14	Pre-amplifier	EMCI	EMC051845SE	MT-E391	2022/03/13	1 Year
15	Pre-amplifier	Agilent	83051A	MT-E392	2022/03/13	1 Year
16	High pass filter unit	Tonscend	JS0806-F	MT-E393	2022/03/13	1 Year
17	RF Cable(below1GHz)	Times	9kHz-1GHz	MT-E394	2022/03/13	1 Year
18	RF Cable(above 1GHz)	Times	1-40G	MT-E395	2022/03/13	1 Year
19	RF Cable (9KHz-40GHz)	Tonscend	170660	N/A	2022/03/13	1 Year

Note: The Cal.Interval was one year.

5 TEST CONDITIONS AND RESULTS

5.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
2 Support equipment, if needed, was placed as per ANSI C63.10-2013
3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
4 The EUT received DC 12V power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5 All support equipments received AC power from a second LISN, if any.
6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT.The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following：

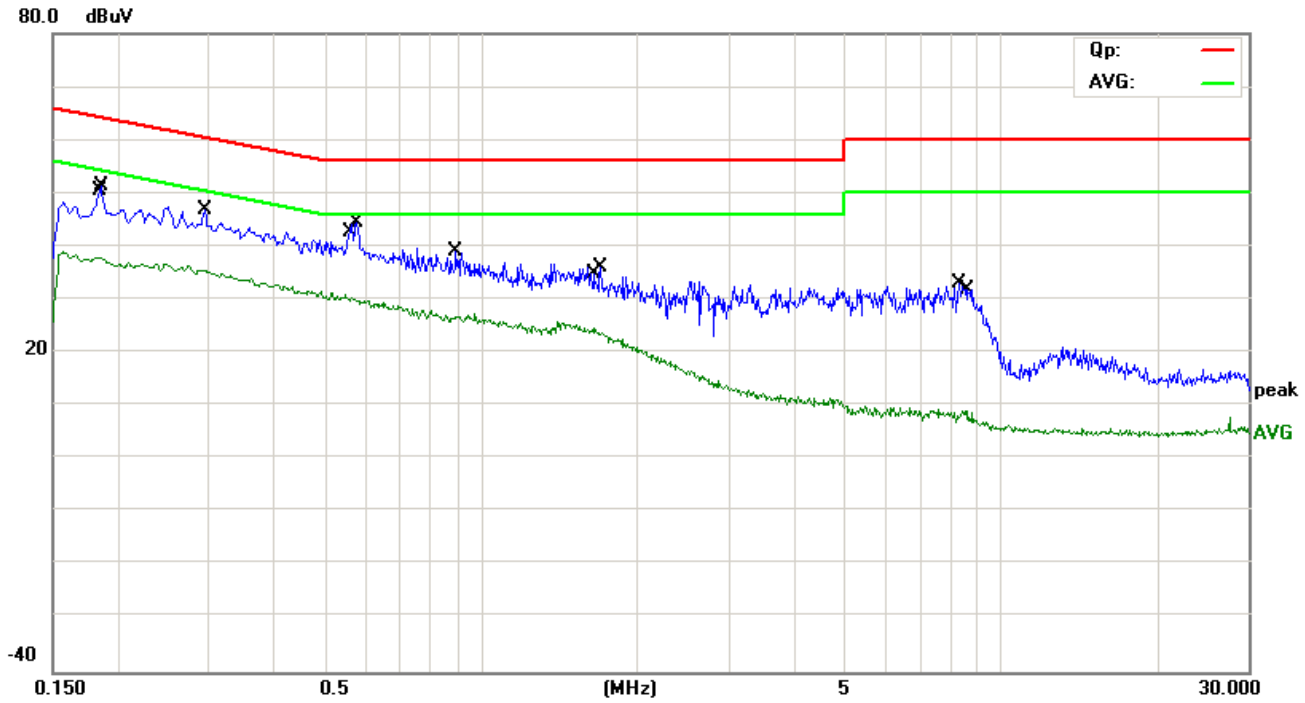
Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
* Decreases with the logarithm of the frequency.		

TEST RESULTS

Remark:

1. All modes were test at Low, Middle, and High channel; only the worst result of 802.11b low channel was reported as below:
2. Remark: Result=Reading value+Factor,and Margin=Limit- Result

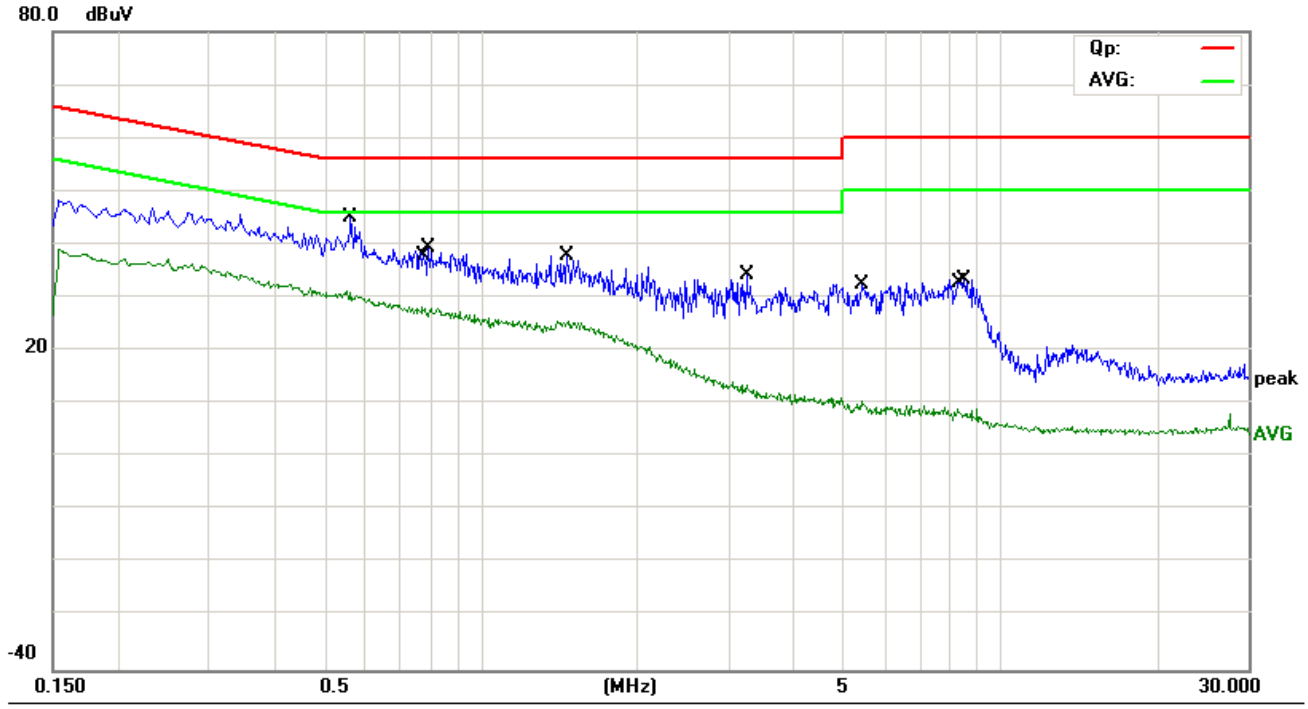
Power Supply	DC 5V by Adapter	Line	L



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1820	28.32	9.61	37.93	54.39	-16.46	AVG	
2		0.1860	41.86	9.60	51.46	64.21	-12.75	QP	
3		0.2940	37.31	9.59	46.90	60.41	-13.51	QP	
4		0.2940	25.96	9.59	35.55	50.41	-14.86	AVG	
5		0.5500	21.50	9.59	31.09	46.00	-14.91	AVG	
6	*	0.5780	34.77	9.59	44.36	56.00	-11.64	QP	
7		0.8900	17.20	9.60	26.80	46.00	-19.20	AVG	
8		0.8980	29.30	9.60	38.90	56.00	-17.10	QP	
9		1.6460	14.97	9.60	24.57	46.00	-21.43	AVG	
10		1.7060	26.48	9.60	36.08	56.00	-19.92	QP	
11		8.3500	23.30	9.67	32.97	60.00	-27.03	QP	
12		8.5580	-0.54	9.67	9.13	50.00	-40.87	AVG	

*:Maximum data x:Over limit !:over margin

Power Supply	DC 5V by Adapter	Line	N



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5540	21.52	9.59	31.11	46.00	-14.89	AVG	
2	*	0.5620	35.46	9.59	45.05	56.00	-10.95	QP	
3		0.7740	18.64	9.60	28.24	46.00	-17.76	AVG	
4		0.7940	29.89	9.60	39.49	56.00	-16.51	QP	
5		1.4660	28.25	9.60	37.85	56.00	-18.15	QP	
6		1.4740	16.05	9.60	25.65	46.00	-20.35	AVG	
7		3.2420	24.62	9.61	34.23	56.00	-21.77	QP	
8		3.2420	4.01	9.61	13.62	46.00	-32.38	AVG	
9		5.4060	0.81	9.63	10.44	50.00	-39.56	AVG	
10		5.4300	22.88	9.63	32.51	60.00	-27.49	QP	
11		8.2980	-0.68	9.67	8.99	50.00	-41.01	AVG	
12		8.5140	23.72	9.67	33.39	60.00	-26.61	QP	

*:Maximum data x:Over limit !:over margin

5.2 Radiated Emissions

Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Undesirable emission limits

Requirement	Limit(EIRP)	Limit (Field strength at 3m) Note1
15.407(b)(1)	PK:-27(dBm/MHz)	PK:68.2(dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)		

Note1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

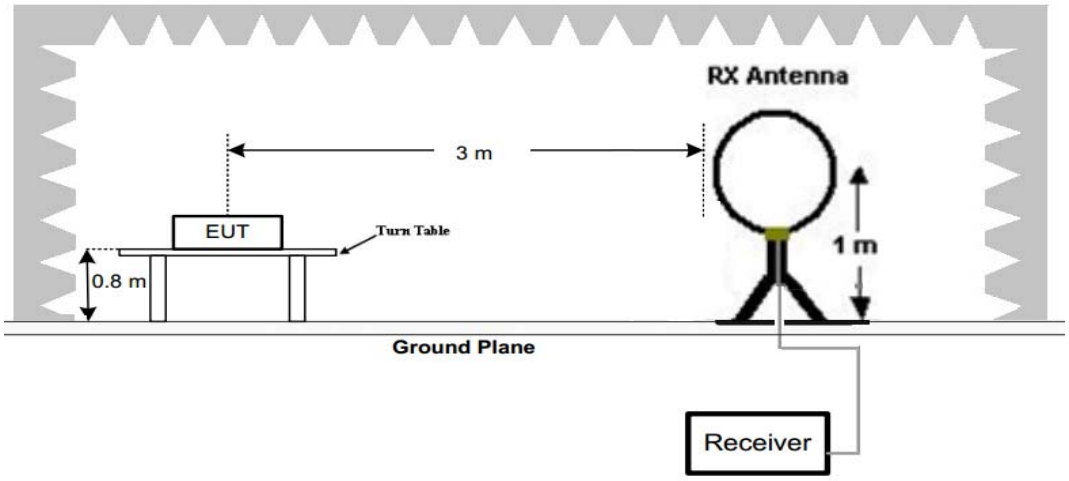
(5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209
(6)In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

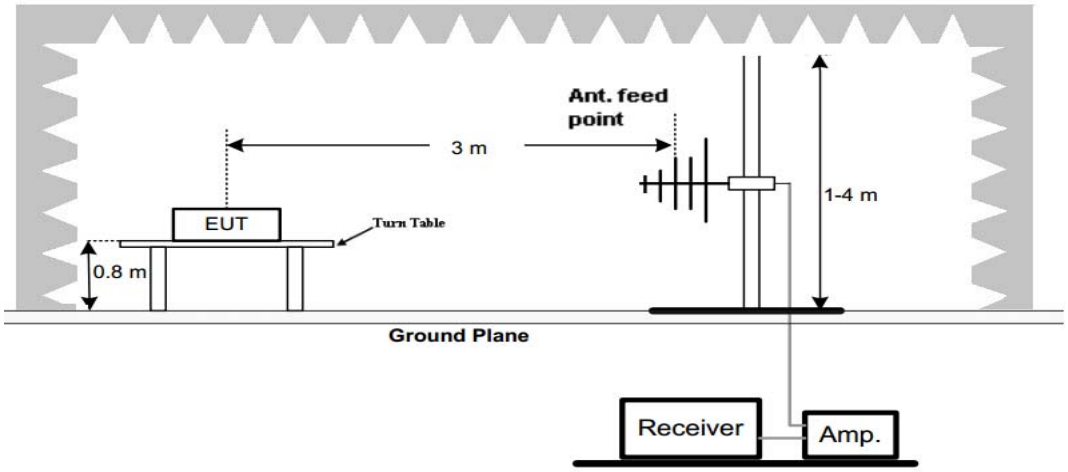
Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST CONFIGURATION

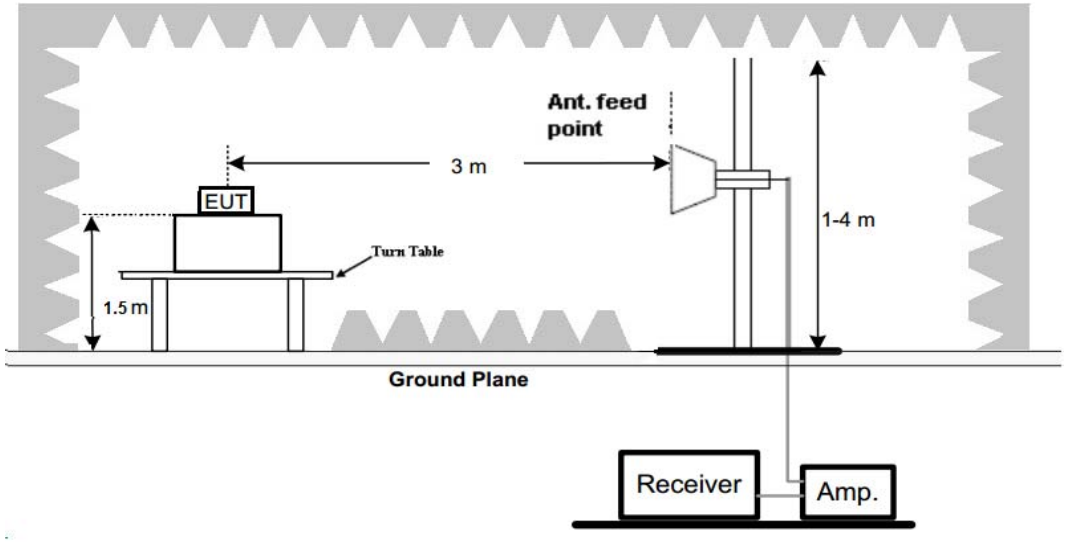
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0℃ to 360℃ to acquire the highest emissions from EUT
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 9KHz to 40GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3
1GHz-18GHz	Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

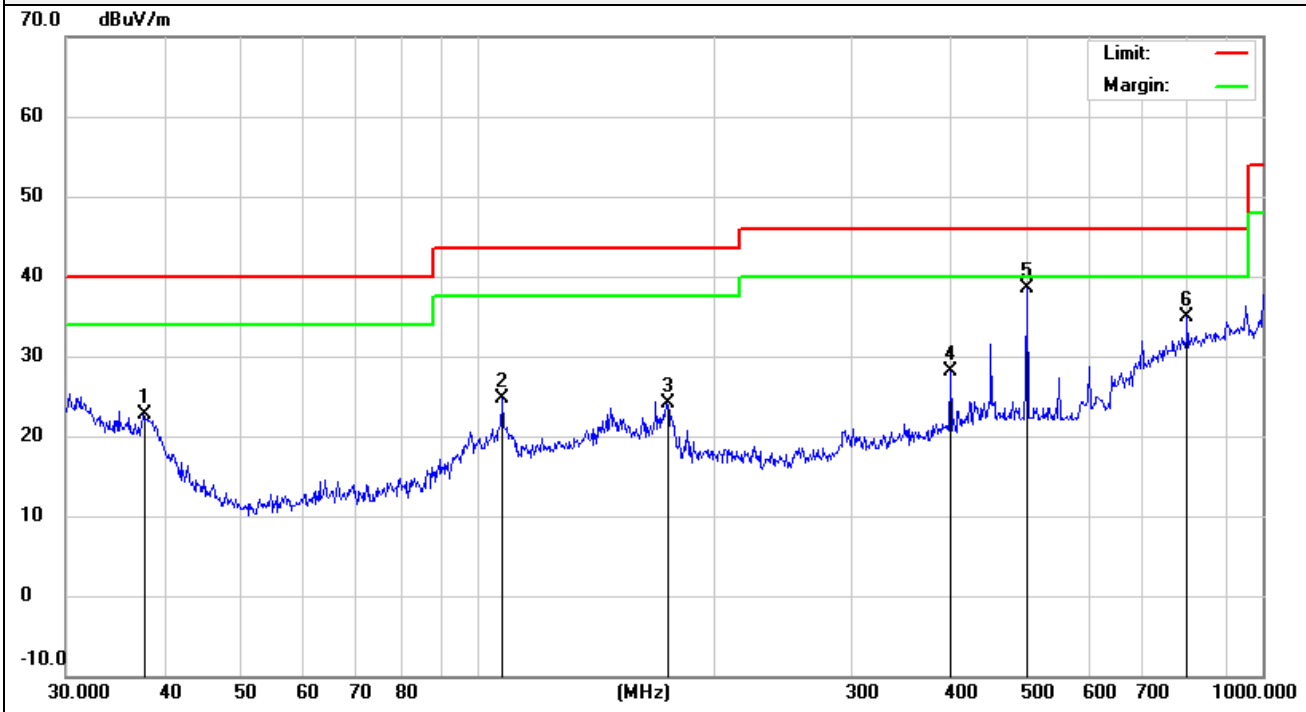
Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

TEST RESULTS

Remark:
1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
2. All 802.11a / 802.11n (HT20) modes have been tested for below 1GHz test, only the worst case 802.11a low channel of U-NII 1 band was recorded.
3. All 802.11a / 802.11n (HT20) modes have been tested for above 1GHz test, only the worst case 802.11a was recorded.
4. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
5. Remark: Result=Reading value+Factor

For 30MHz-1GHz

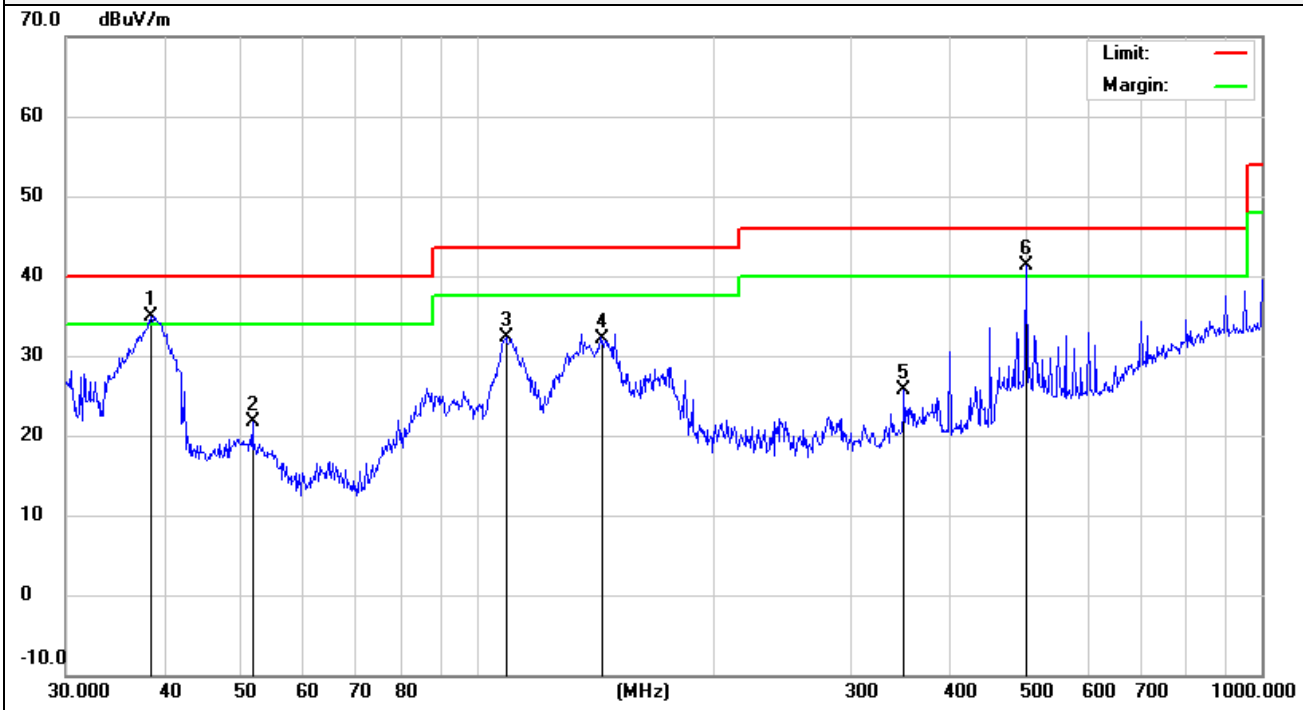
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		37.6798	7.25	15.52	22.77	40.00	-17.23	QP	200	60	
2		107.8877	10.22	14.47	24.69	43.50	-18.81	QP	200	98	
3		174.4241	7.19	16.82	24.01	43.50	-19.49	QP	200	126	
4		400.4318	10.65	17.42	28.07	46.00	-17.93	QP	200	230	
5	*	501.1790	15.80	22.71	38.51	46.00	-7.49	QP	200	260	
6		801.7862	6.99	27.92	34.91	46.00	-11.09	QP	200	310	

*:Maximum data x:Over limit !:over margin

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	!	38.4808	20.06	14.92	34.98	40.00	-5.02	QP	100	25	
2		51.8430	13.47	8.19	21.66	40.00	-18.34	QP	100	46	
3		109.0286	17.66	14.59	32.25	43.50	-11.25	QP	100	98	
4		143.8295	15.30	16.90	32.20	43.50	-11.30	QP	100	168	
5		350.4766	9.20	16.46	25.66	46.00	-20.34	QP	100	240	
6	*	501.1790	18.61	22.71	41.32	46.00	-4.68	QP	100	298	

*:Maximum data x:Over limit !:over margin

For 1GHz to 40GHz
Note: All 802.11a / 802.11n (HT20)
modes have been tested for above 1GHz test, only the worst case 802.11a was recorded.
U-NII 1

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
***802.11a Mode* -5180MHz**									
V	3586	54.99	29.03	5.24	36.4	52.86	68.2	15.34	PK
V	3586	42.28	29.03	5.24	36.4	40.15	54	13.85	AV
H	3586	52.83	29.03	5.24	36.4	50.7	68.2	17.5	PK
H	3586	48.48	29.03	5.24	36.4	46.35	54	7.65	AV
V	10360	33.98	39.41	11.45	34.28	50.56	68.2	17.64	PK
V	10360	25.32	39.41	11.45	34.28	41.9	54	12.1	AV
H	10360	33.96	39.41	11.45	34.28	50.54	68.2	17.66	PK
H	10360	27.99	39.41	11.45	34.28	44.57	54	9.43	AV
***802.11a Mode* -5200MHz**									
V	3586	54.85	29.03	5.24	36.4	52.72	68.2	15.48	PK
V	3586	42.3	29.03	5.24	36.4	40.17	54	13.83	AV
H	3586	52.73	29.03	5.24	36.4	50.6	68.2	17.6	PK
H	3586	46.85	29.03	5.24	36.4	44.72	54	9.28	AV
V	10400	34.88	39.42	11.47	34.28	51.49	68.2	16.71	PK
V	10400	26.97	39.42	11.47	34.28	43.58	54	10.42	AV
H	10400	36.94	39.42	11.47	34.28	53.55	68.2	14.65	PK
H	10400	27.16	39.42	11.47	34.28	43.77	54	10.23	AV
802.11a *Mode* -5240MHz									
V	3586	53.98	29.03	5.24	36.4	51.85	68.2	16.35	PK
V	3586	43.54	29.03	5.24	36.4	41.41	54	12.59	AV
H	3586	54.02	29.03	5.24	36.4	51.89	68.2	16.31	PK
H	3586	47.81	29.03	5.24	36.4	45.68	54	8.32	AV
V	10480	37.09	39.43	11.47	34.28	53.71	68.2	14.49	PK
V	10480	26	39.43	11.47	34.28	42.62	54	11.38	AV
H	10480	35.75	39.43	11.47	34.28	52.37	68.2	15.83	PK
H	10480	27.72	39.43	11.47	34.28	44.34	54	9.66	AV

U-NII 2A

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
***802.11a Mode* -5260MHz**									
V	3603	54.89	29.03	5.24	36.4	52.76	68.2	15.44	PK
V	3603	42.45	29.03	5.24	36.4	40.32	54	13.68	AV
H	3603	54.08	29.03	5.24	36.4	51.95	68.2	16.25	PK
H	3603	48.07	29.03	5.24	36.4	45.94	54	8.06	AV
V	10520	33.91	39.43	11.47	34.28	50.53	68.2	17.67	PK
V	10520	24.02	39.43	11.47	34.28	40.64	54	13.36	AV
H	10520	34.35	39.43	11.47	34.28	50.97	68.2	17.23	PK
H	10520	26.46	39.43	11.47	34.28	43.08	54	10.92	AV
***802.11a Mode* -5280MHz**									
V	3603	52.68	29.03	5.24	36.4	50.55	68.2	17.65	PK
V	3603	43.65	29.03	5.24	36.4	41.52	54	12.48	AV
H	3603	52.36	29.03	5.24	36.4	50.23	68.2	17.97	PK
H	3603	47.16	29.03	5.24	36.4	45.03	54	8.97	AV
V	10560	37.26	39.43	11.47	34.28	53.88	68.2	14.32	PK
V	10560	26.91	39.43	11.47	34.28	43.53	54	10.47	AV
H	10560	36.56	39.43	11.47	34.28	53.18	68.2	15.02	PK
H	10560	26.41	39.43	11.47	34.28	43.03	54	10.97	AV
802.11a *Mode* -5320MHz									
V	3603	52.59	29.03	5.24	36.4	50.46	68.2	17.74	PK
V	3603	43.77	29.03	5.24	36.4	41.64	54	12.36	AV
H	3603	53.49	29.03	5.24	36.4	51.36	68.2	16.84	PK
H	3603	47.53	29.03	5.24	36.4	45.4	54	8.6	AV
V	10640	36.75	39.44	11.47	34.28	53.38	68.2	14.82	PK
V	10640	26.14	39.44	11.47	34.28	42.77	54	11.23	AV
H	10640	36.68	39.44	11.47	34.28	53.31	68.2	14.89	PK
H	10640	26.78	39.44	11.47	34.28	43.41	54	10.59	AV

U-NII 2C

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable loss (dB)	Preamp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
***802.11a Mode* -5500MHz**									
V	4982	51.64	32.52	5.24	36.4	53	68.2	15.2	PK
V	4982	39.25	32.52	5.24	36.4	40.61	54	13.39	AV
H	4982	49.55	32.52	5.24	36.4	50.91	68.2	17.29	PK
H	4982	43.68	32.52	5.24	36.4	45.04	54	8.96	AV
V	11000	34.31	39.46	11.47	34.28	50.96	68.2	17.24	PK
V	11000	23.85	39.46	11.47	34.28	40.5	54	13.5	AV
H	11000	33.76	39.46	11.47	34.28	50.41	68.2	17.79	PK
H	11000	28.45	39.46	11.47	34.28	45.1	54	8.9	AV
***802.11a Mode* -5600MHz**									
V	4982	54.33	29.03	5.24	36.4	52.2	68.2	16	PK
V	4982	43.88	29.03	5.24	36.4	41.75	54	12.25	AV
H	4982	54.54	29.03	5.24	36.4	52.41	68.2	15.79	PK
H	4982	46.58	29.03	5.24	36.4	44.45	54	9.55	AV
V	11200	37.48	39.42	11.47	34.28	54.09	68.2	14.11	PK
V	11200	25.5	39.42	11.47	34.28	42.11	54	11.89	AV
H	11200	36.63	39.42	11.47	34.28	53.24	68.2	14.96	PK
H	11200	26.68	39.42	11.47	34.28	43.29	54	10.71	AV
802.11a *Mode* -5700MHz									
V	4982	51.71	32.52	5.24	36.4	53.07	68.2	15.13	PK
V	4982	40.4	32.52	5.24	36.4	41.76	54	12.24	AV
H	4982	49.81	32.52	5.24	36.4	51.17	68.2	17.03	PK
H	4982	45.03	32.52	5.24	36.4	46.39	54	7.61	AV
V	11400	37.13	39.46	11.47	34.28	53.78	68.2	14.42	PK
V	11400	25.49	39.46	11.47	34.28	42.14	54	11.86	AV
H	11400	36.7	39.46	11.47	34.28	53.35	68.2	14.85	PK
H	11400	26.42	39.46	11.47	34.28	43.07	54	10.93	AV

REMARKS:

1. Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
2. Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Limit value- Emission level.
4. -- Mean the other emission levels were very low against the limit.
5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Radiated Band Edge Test:
All 802.11a / 802.11n (HT20)
modes have been tested for above 1GHz test, only the worst case 802.11a was recorded.
U-NII 1

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a									
V	5150	55.06	31.22	7.62	36.5	57.4	74	16.6	PK
V	5150	39.55	31.22	7.62	36.5	41.89	54	12.11	AV
H	5150	54.15	31.22	7.62	36.5	56.49	74	17.51	PK
H	5150	42.9	31.22	7.62	36.5	45.24	54	8.76	AV
V	5350	53.95	31.56	7.83	35.82	57.52	74	16.48	PK
V	5350	39.26	31.56	7.83	35.82	42.83	54	11.17	AV
H	5350	54.53	31.56	7.83	35.82	58.1	74	15.9	PK
H	5350	41.92	31.56	7.83	35.82	45.49	54	8.51	AV

U-NII 2A

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a									
V	5150	54.74	31.22	7.62	36.5	57.08	74	16.92	PK
V	5150	38.51	31.22	7.62	36.5	40.85	54	13.15	AV
H	5150	54.7	31.22	7.62	36.5	57.04	74	16.96	PK
H	5150	41.79	31.22	7.62	36.5	44.13	54	9.87	AV
V	5350	54.5	31.56	7.83	35.82	58.07	74	15.93	PK
V	5350	40.13	31.56	7.83	35.82	43.7	54	10.3	AV
H	5350	53.6	31.56	7.83	35.82	57.17	74	16.83	PK
H	5350	41.22	31.56	7.83	35.82	44.79	54	9.21	AV

U-NII 2C

Polar (H/V)	Frequency	Meter Reading	Antenna Factor	Cable loss	Preamp factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
802.11a									
V	5460	53.77	31.22	7.62	36.5	56.11	74	17.89	PK
V	5460	38.49	31.22	7.62	36.5	40.83	54	13.17	AV
H	5460	54.34	31.22	7.62	36.5	56.68	74	17.32	PK
H	5460	43.87	31.22	7.62	36.5	46.21	54	7.79	AV
V	5850	54.86	31.56	7.83	35.82	58.43	74	15.57	PK
V	5850	38.6	31.56	7.83	35.82	42.17	54	11.83	AV
H	5850	55.96	31.56	7.83	35.82	59.53	74	14.47	PK
H	5850	40.83	31.56	7.83	35.82	44.4	54	9.6	AV

5.3 Conduction spurious emission

Limit

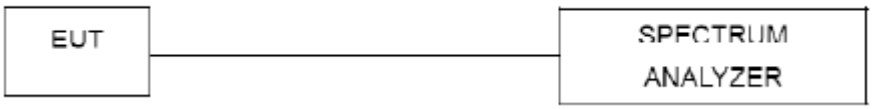
The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Test Procedure

Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 1 MHz for f ⩾ 1 GHz, 100 kHz for f < 1 GHz
VBW ⩾ RBW
Sweep = auto
Detector function = peak
Trace = max hold
Allow the trace to stabilize

Test Configuration



TEST RESULTS

U-NII 1

802.11a	
	
CH36	CH40
	
CH48	
802.11n(HT20)	
	
CH36	CH40

CH48

U-NII 2A

802.11a

CH52

CH56

CH64

802.11n(HT20)

CH52

CH56

CH64

U-NII 2C

802.11a

CH100

CH120

CH140

802.11n(HT20)

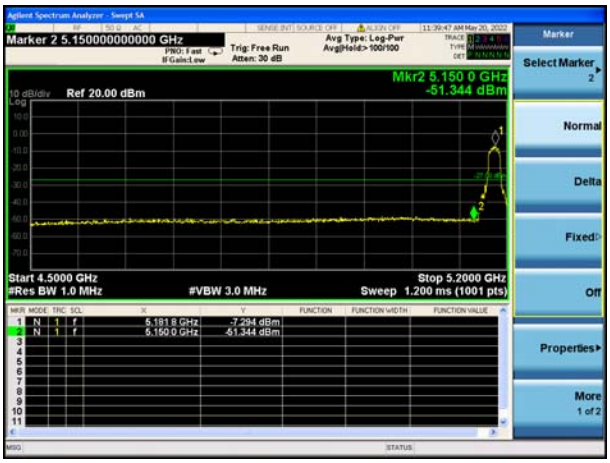
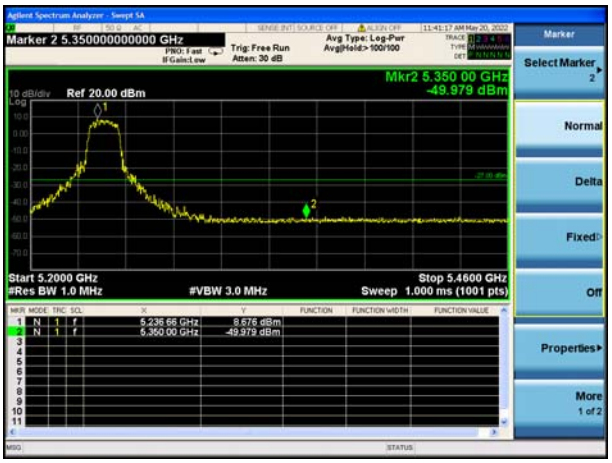
CH100

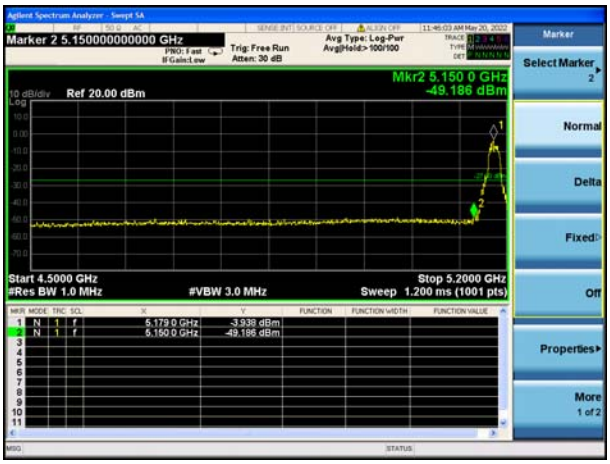
CH120

CH140

Band-edge Measurements for RF Conducted Emissions:

U-NII 1

802.11a	
	
Left bandedge	Right bandedge

802.11n(HT20)	
	
Left bandedge	Right bandedge

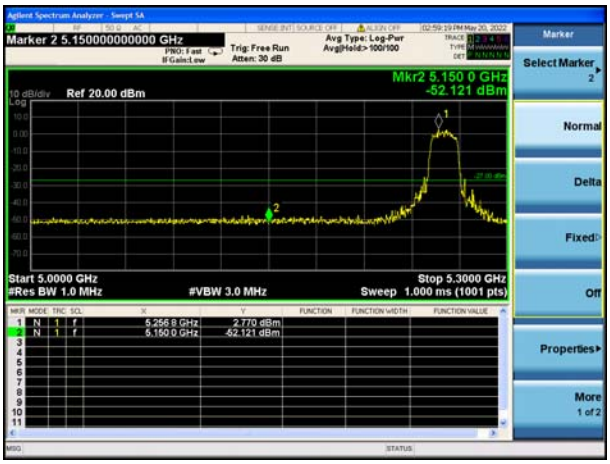
U-NII 2A

802.11a

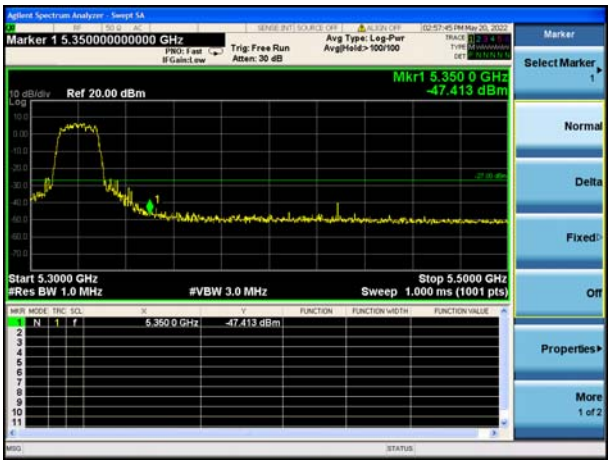
Left bandedge

Right bandedge

802.11n(HT20)



Left bandedge



Right bandedge

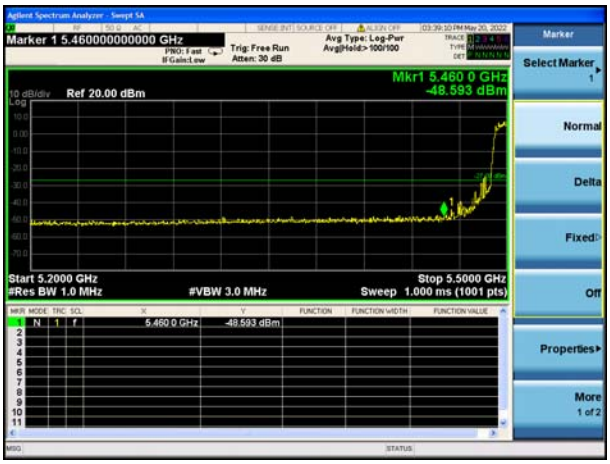
U-NII 2C

802.11a

Left bandedge

Right bandedge

802.11n(HT20)



Left bandedge

Right bandedge

5.4 Maximum Conducted Average Output Power

Limit

For the band 5.15-5.25 GHz.
(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.
(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.
(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

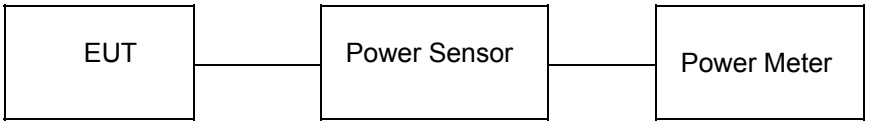
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results

U-NII 1

Type	Channel	Output power (dBm)	Limit (dBm)	Result
802.11a	36	12.30	24.00	Pass
	40	12.33		
	48	13.01		
802.11n(HT20)	36	12.37	24.00	Pass
	40	12.50		
	48	12.41		

U-NII 2A

Type	Channel	Output power (dBm)	Limit (dBm)	Result
802.11a	52	12.01	24.00	Pass
	56	12.03		
	64	12.52		
802.11n(HT20)	52	12.41	24.00	Pass
	56	12.40		
	64	12.44		

U-NII 2C

Type	Channel	Output power (dBm)	Limit (dBm)	Result
802.11a	100	12.60	24.00	Pass
	120	12.58		
	140	12.02		
802.11n(HT20)	100	12.52	24.00	Pass
	120	12.44		
	140	13.30		

5.5 Power Spectral Density

Limit

(1) For the band 5.15 - 5.25 GHz.

(i) For an outdoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band.[note1]

(ii) For an indoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band.[note1]

(iii) For fixed point-to-point access points operating in the band 5.15 - 5.25 GHz, transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.

(iv) For mobile and portable client devices in the 5.15 - 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. [note1]

(2) For the 5.25 - 5.35 GHz and 5.47 - 5.725 GHz bands, the peak power spectral density shall not exceed 11 dBm in any 1 MHz band. [note1]

(3) For the band 5.725 - 5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band. [note1, note2]

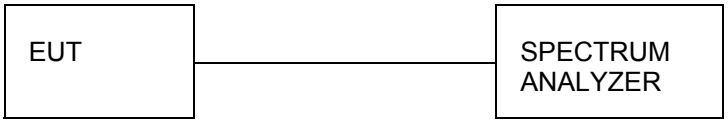
Note1: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note2: Fixed point - to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 1MHz for U-NII 1, U-NII 2A, U-NII C band and 510KHz for U-NII 3 band.
3. Set the VBW ≥ 3× RBW.
4. Set the span to encompass the entire EBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.

Test Configuration



Test Results

Type	Bands	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
802.11a	U-NII 1	36	8.589	11	Pass
		40	9.751		
		48	9.293		
802.11n (HT20)	U-NII 1	36	8.624		
		40	9.488		
		48	10.064		

Type	Bands	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
802.11a	U-NII 2A	52	8.444	11	Pass
		56	7.941		
		64	7.802		
802.11n (HT20)	U-NII 2A	52	8.427		
		56	9.099		
		64	7.927		

Type	Bands	Channel	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)	Result
802.11a	U-NII 2C	100	8.521	11	Pass
		120	8.997		
		140	8.312		
802.11n (HT20)	U-NII 2C	100	8.470		
		120	8.761		
		140	8.458		

Remark: P.S.D(dBm/500KHz)= P.S.D(dBm/300KHz)+10 log (500 kHz/300KHz).

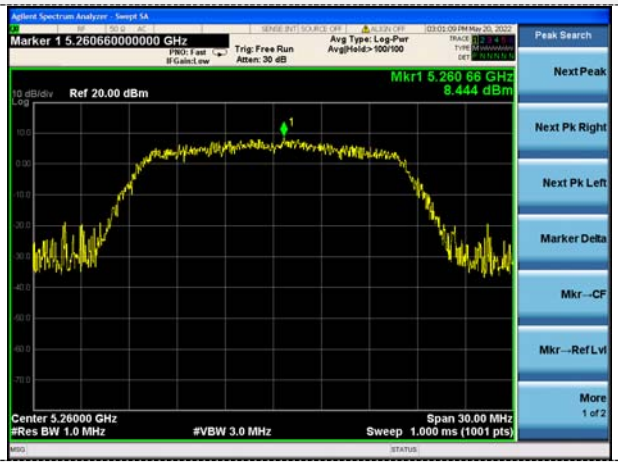
Test plot as follows:

802.11a

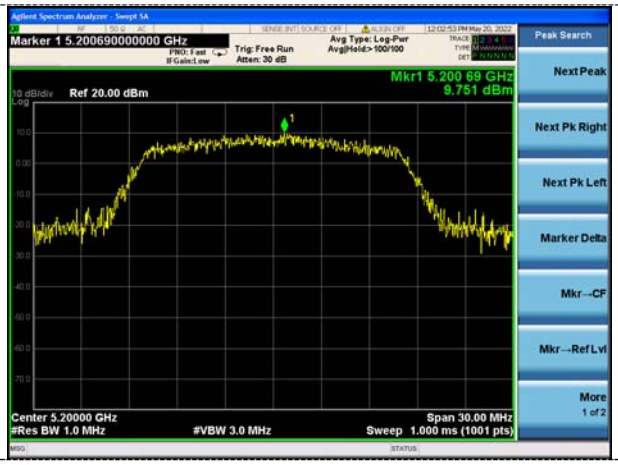
U-NII 1

CH36

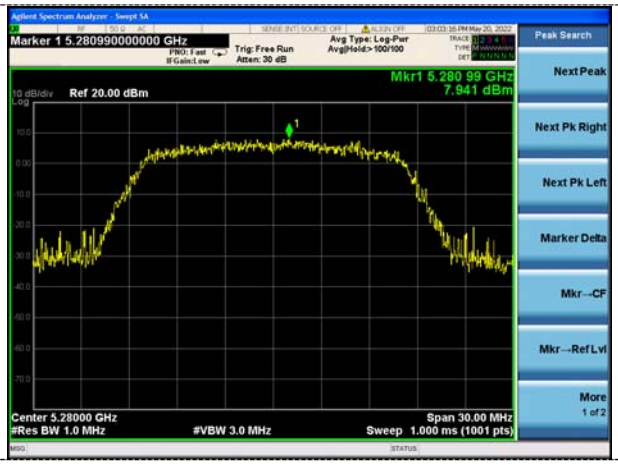
U-NII 2A



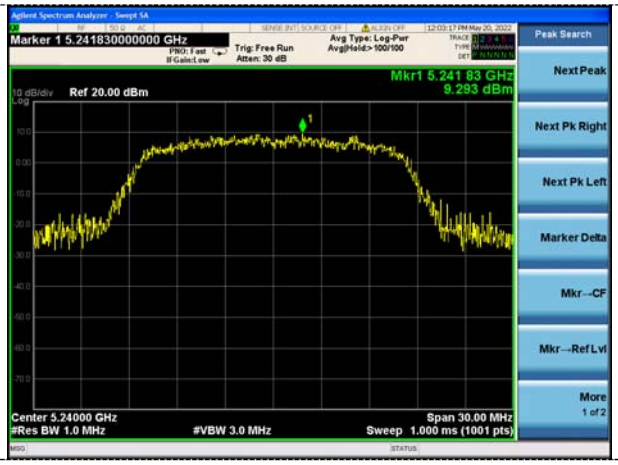
CH52



CH40



CH56



CH48

CH64

802.11a	
U-NII 2C	
	
CH100	
	
CH120	
	
CH140	

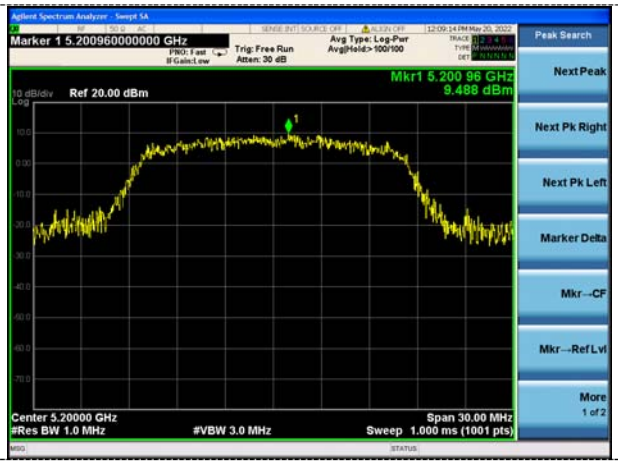
802.11n(HT20)

U-NII 1

CH36

U-NII 2A

CH52



CH40

CH56

CH48

CH64

802.11n(HT20)	
U-NII 2C	
	
CH100	
	
CH120	
	
CH140	

5.6 Emission Bandwidth (26dBm Bandwidth)

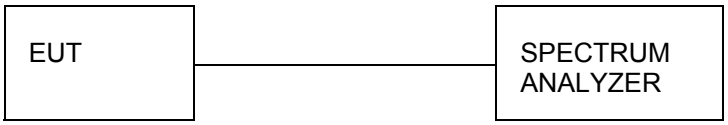
Limit

N/A

Test Procedure

1. Set resolution bandwidth (RBW) = approximately 1 % of the EBW.
2. Set the video bandwidth (VBW) > RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW / EBW ratio is approximately 1 %.

Test Configuration



Test Results

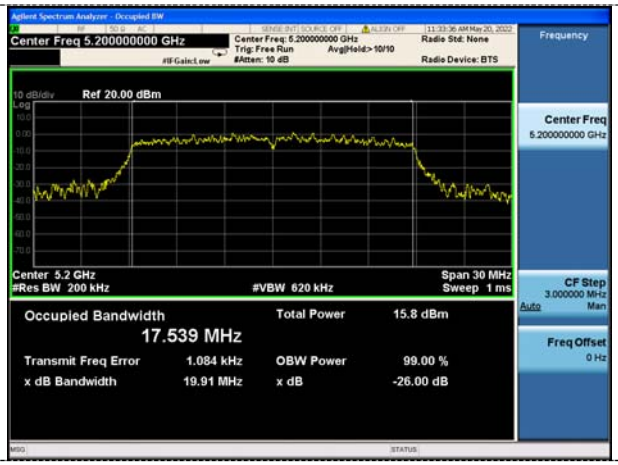
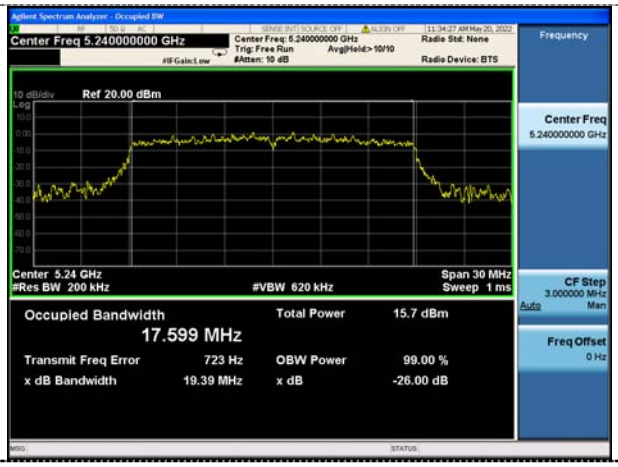
Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 1	36	24.63	N/A	Pass
		40	19.43		
		48	19.67		
802.11n(HT20)	U-NII 1	36	24.81		
		40	19.91		
		48	19.39		

Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 2A	52	19.39	N/A	Pass
		56	19.12		
		64	19.34		
802.11n(HT20)	U-NII 2A	52	19.43		
		56	19.14		
		64	19.43		

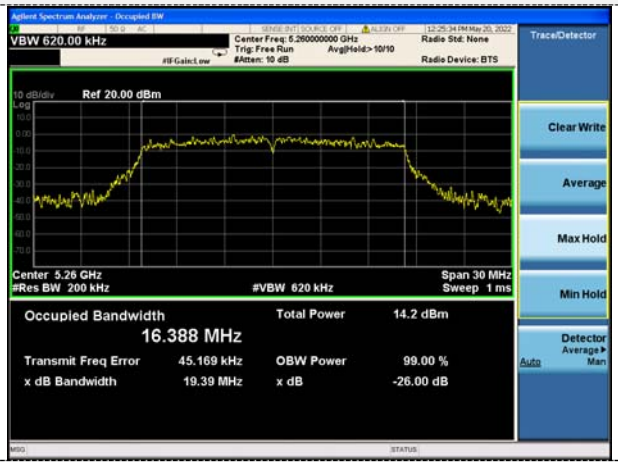
Type	Bands	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	U-NII 2C	100	19.45	N/A	Pass
		120	19.03		
		140	19.26		
802.11n(HT20)	U-NII 2C	100	19.29		
		120	19.09		
		140	19.29		

Test plot as follows:

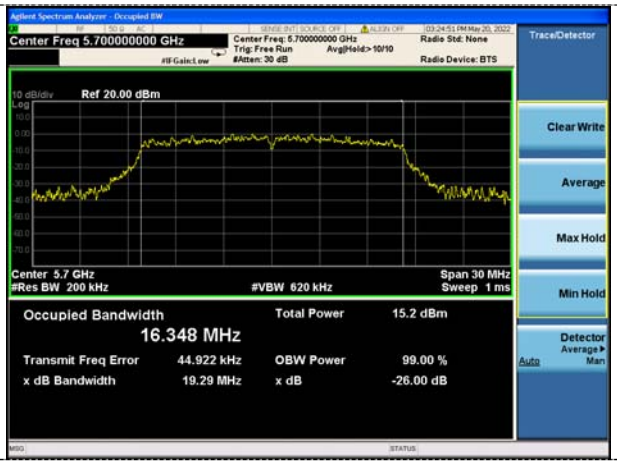
U-NII 1

802.11a	*802.11n(HT20)*
	
CH36	*CH36*
	
CH40	*CH40*
	
CH48	*CH48*

U-NII 2A

802.11a	*802.11n(HT20)*
	
CH52	*CH52*
	
CH56	*CH56*
	
CH64	*CH64*

U-NII 2C

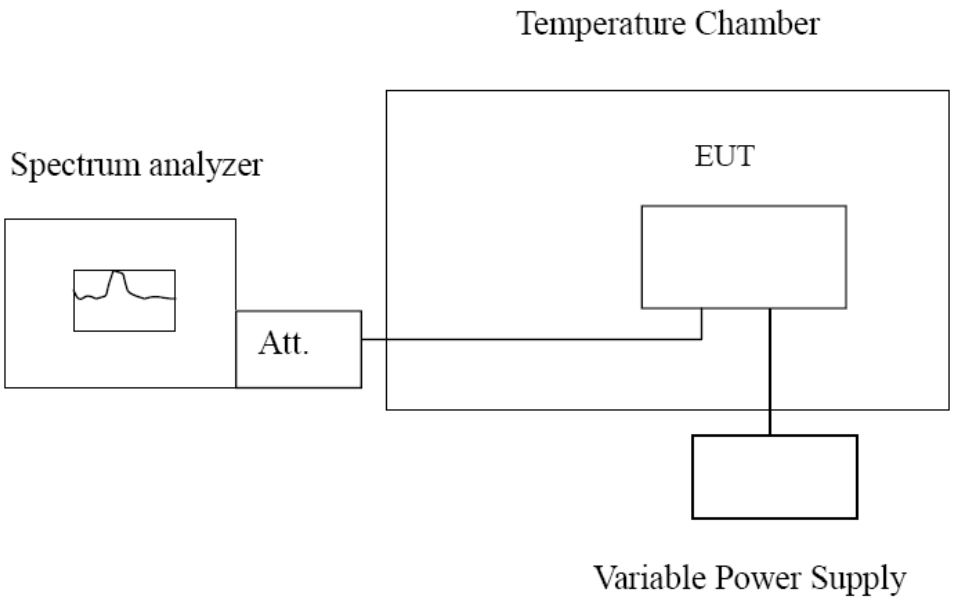
802.11a	*802.11n(HT20)*
	
CH100	*CH100*
	
CH120	*CH120*
	
CH140	*CH140*

5.7 Frequency Stability

LIMIT

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

TEST CONFIGURATION



TEST PROCEDURE

Frequency Stability under Temperature Variations:
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20℃ operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30℃. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10℃ increased per stage until the highest temperature of +50℃ reached.

Frequency Stability under Voltage Variations:
Set chamber temperature to 20℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change.

TEST RESULTS

Record worst case as below:

Reference Frequency: 802.11a channel=36 frequency=5180MHz					
Voltage (V)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		MHz	ppm		
120	-30	0.013	2.26	Within the band of operation	Pass
	-20	0.015	2.61		
	-10	0.016	2.79		
	0	0.012	2.09		
	10	0.013	2.26		
	20	0.012	2.09		
	30	0.015	2.61		
	40	0.013	2.26		
	50	0.013	2.26		
240	25	0.015	2.61		
100	25	0.013	2.26		

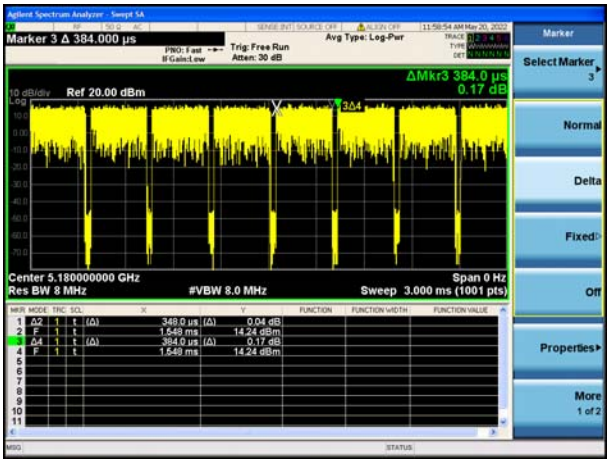
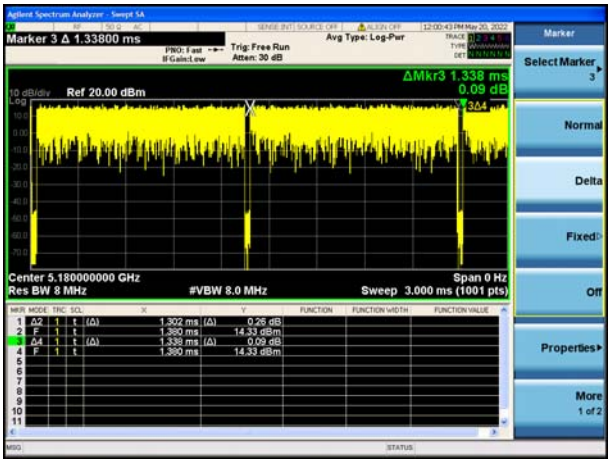
Reference Frequency: 802.11a channel=48 frequency=5240MHz					
Voltage (V)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		MHz	ppm		
120	-30	0.013	2.26	Within the band of operation	Pass
	-20	0.013	2.26		
	-10	0.015	2.61		
	0	0.015	2.61		
	10	0.016	2.79		
	20	0.011	1.91		
	30	0.014	2.44		
	40	0.013	2.26		
	50	0.015	2.61		
240	25	0.013	2.26		
100	25	0.013	2.26		

Reference Frequency: 802.11n(HT20) channel=36 frequency=5180MHz					
Voltage (V)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		MHz	ppm		
120	-30	0.014	2.44	Within the band of operation	Pass
	-20	0.013	2.26		
	-10	0.015	2.61		
	0	0.016	2.79		
	10	0.013	2.26		
	20	0.012	2.09		
	30	0.013	2.26		
	40	0.014	2.44		
	50	0.015	2.61		
240	25	0.015	2.61		
100	25	0.014	2.44		

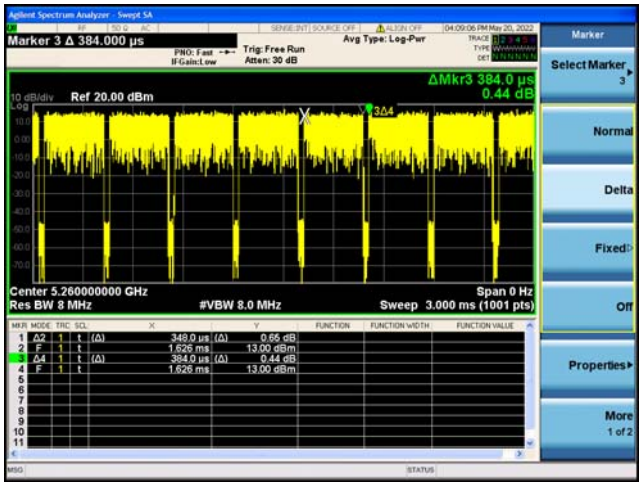
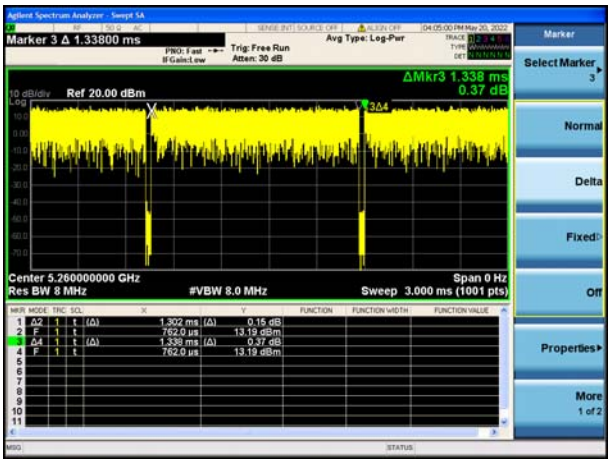
Reference Frequency: 802.11n(HT20) channel=48 frequency=5240MHz					
Voltage (V)	Temperature (℃)	Frequency error		Limit (ppm)	Result
		MHz	ppm		
120	-30	0.013	2.26	Within the band of operation	Pass
	-20	0.013	2.26		
	-10	0.012	2.09		
	0	0.014	2.44		
	10	0.015	2.61		
	20	0.014	2.44		
	30	0.014	2.44		
	40	0.013	2.26		
	50	0.012	2.09		
240	25	0.013	2.26		
100	25	0.016	2.79		

5.7 Duty Cycle Information

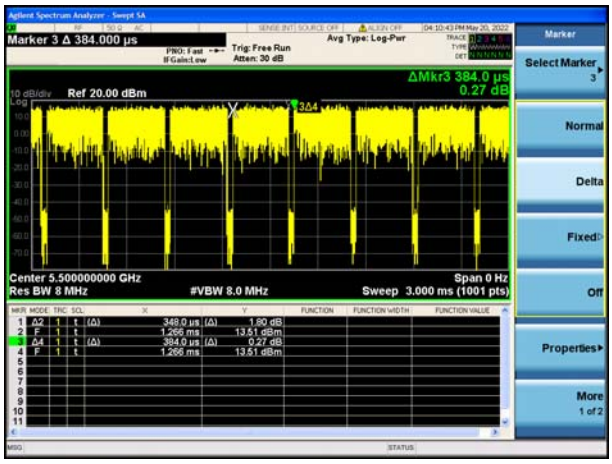
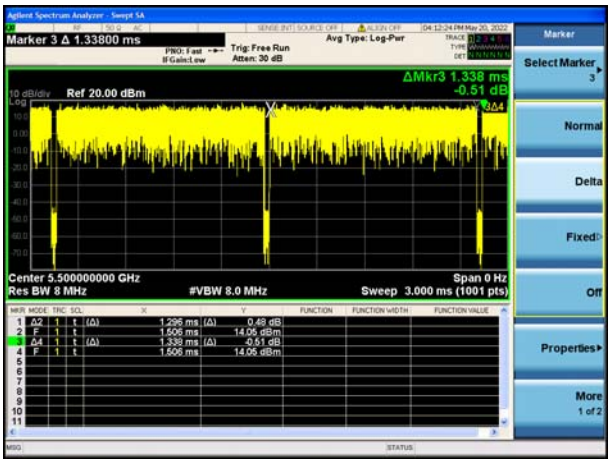
U-NII 1				
Test Mode	Maximum Achievable Duty Cycle (x) = On / (On+Off)			Duty Cycle Correction Factor [dB]
	On Time [ms]	(On+Off) Time [ms]	x	
a	0.348	0.384	90.62%	0.062
n20	1.302	1.338	97.30%	0.051

a	n20
	

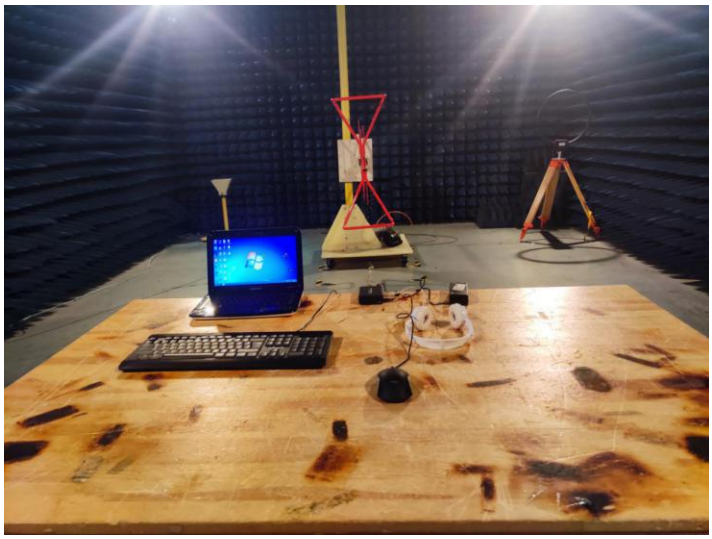
U-NII 2A				
Test Mode	Maximum Achievable Duty Cycle (x) = On / (On+Off)			Duty Cycle Correction Factor [dB]
	On Time [ms]	(On+Off) Time [ms]	x	
a	0.348	0.384	90.62%	0.061
n20	1.302	1.338	97.30%	0.051

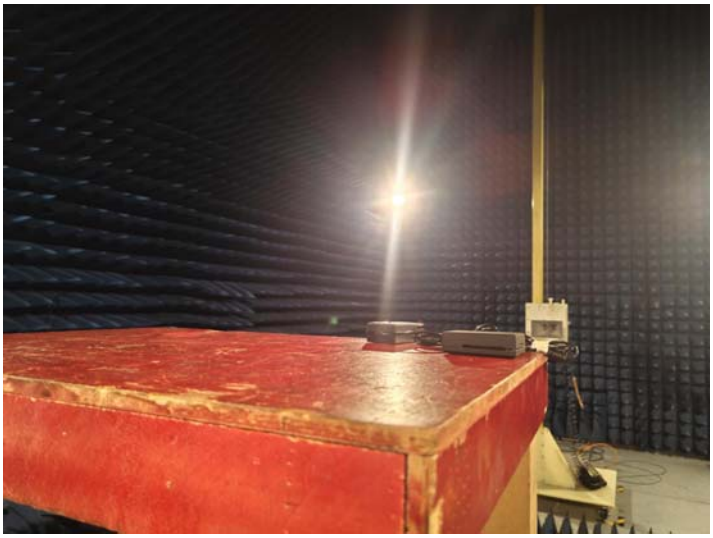
a	n20
	

U-NII 2C				
Test Mode	Maximum Achievable Duty Cycle (x) = On / (On+Off)			Duty Cycle Correction Factor [dB]
	On Time [ms]	(On+Off) Time [ms]	x	
a	0.348	0.384	90.62%	0.062
n20	1.296	1.338	96.86%	0.052

a	n20
	

6 Test Setup Photos of the EUT





7 Photos of the EUT

see photo report.

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