

FCC Test Report

Client Name : Zhejiang Xunshi Technology Co.,Ltd.

Client Address : 4 / F, building 2, Qihang building, science and
Technology Park, 586 Xihuan Road, Kebei
Economic Development Zone, Keqiao
District, Shaoxing City China

Product Name : ProCure2

Report Date : Sept. 20, 2022

Shenzhen Anbotek Compliance Laboratory Limited



Shenzhen Anbotek Compliance Laboratory Limited

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Code: AB-RF-05-b



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TEST REPORT

Applicant : Zhejiang Xunshi Technology Co.,Ltd.

Manufacturer : Zhejiang Xunshi Technology Co.,Ltd.

Product Name : ProCure2

Model No. : SRP2208A

Trade Mark :  迅实科技
SOONSOLID

Rating(s) : Input: AC 100-240V, 3A, 275W

Test Standard(s) : **FCC Part15 Subpart C, Section 15.247**

Test Method(s) : **ANSI C63.10: 2020, KDB 558074 D01 15.247 Meas Guidance v05r02**

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 FCC Part 15 Subpart C 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

Aug. 15, 2022

Date of Test

Aug. 15~22, 2022

Prepared by



(Ella Liang)

Approved & Authorized Signer



(Kingkong Jin)

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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400-003-0500

www.anbotek.com.cn



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Sept. 20, 2022




1. General Information

1.1. Client Information

Applicant	:	Zhejiang Xunshi Technology Co.,Ltd.
Address	:	4 / F, building 2, Qihang building, science and Technology Park, 586 Xihuan Road, Kebei Economic Development Zone, Keqiao District, Shaoxing City China
Manufacturer	:	Zhejiang Xunshi Technology Co.,Ltd.
Address	:	4 / F, building 2, Qihang building, science and Technology Park, 586 Xihuan Road, Kebei Economic Development Zone, Keqiao District, Shaoxing City China
Factory	:	Zhejiang Xunshi Technology Co.,Ltd.
Address	:	4 / F, building 2, Qihang building, science and Technology Park, 586 Xihuan Road, Kebei Economic Development Zone, Keqiao District, Shaoxing City China

1.2. Description of Device (EUT)

Product Name	:	ProCure2
Model No.	:	SRP2208A
Trade Mark	:	
Test Power Supply	:	AC 120V, 60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Mode	:	<input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n(HT20) <input checked="" type="checkbox"/> 802.11n(HT40)
Operation Frequency	:	2412~2462MHz
Number of Channel	:	11 Channel for 20MHz bandwidth (2412~2462MHz) 7 channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type	:	<input checked="" type="checkbox"/> 802.11b: DSSS (CCK, DQPSK, DBPSK) <input checked="" type="checkbox"/> 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM) <input checked="" type="checkbox"/> 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type	:	FPC antenna



Antenna Gain(Peak)	:	4.21 dBi (Provided by customer)
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Remark: 1) 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)
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1.4. Description of Test Configuration

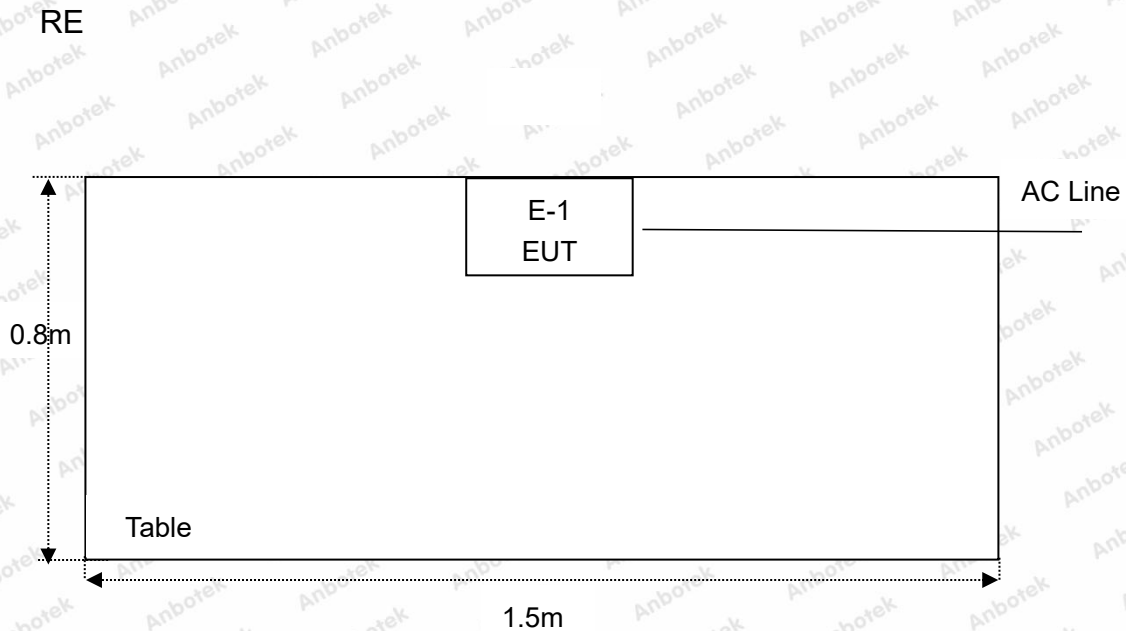
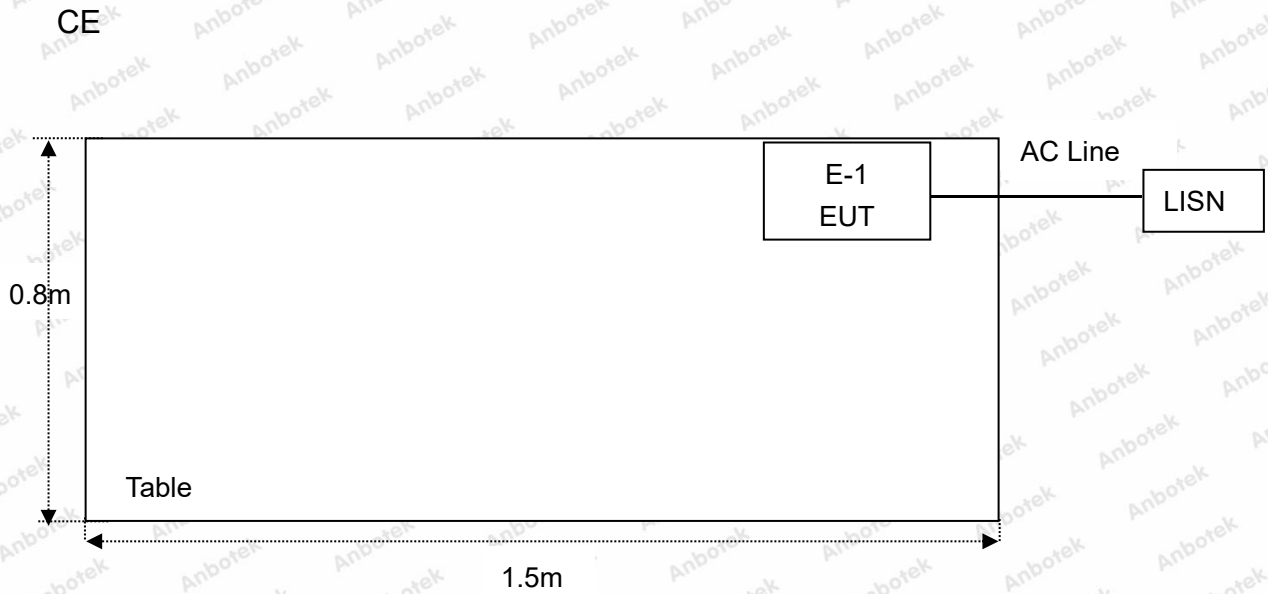
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. For 802.11b, 802.11g, and 802.11n(HT20) modes were test with channel 1, 6, 11.
For 802.11n(HT40) modes were test with channel 3, 6, 9.



1.5. Description of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Schwarzbeck	NSLK 8127	8127386	Sept. 7, 2021	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Sept. 7, 2021	1 Year
3.	Spectrum Analysis	Keysight	N9020A	MY53100616	Nov.11 , 2021	1 Year
4.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Oct. 25, 2021	1 Year
5.	Pre-amplifier	EMtrace	RP01A	50017	Sept. 7, 2021	1 Year
6.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 02, 2020	2 Year
7.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	01417	Nov. 02, 2020	2 Year
8.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 02, 2020	2 Year
9.	Test Software	Ferrari Technology	EZ-EMC	N/A	N/A	N/A
10.	Switch box	Meike	/	/	Nov. 10, 2021	1 Year
11.	Power Sensor box	Meike	/	/	Oct. 23, 2021	1 Year
12.	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420822	Feb. 28, 2022	1 Year
13.	Signal Generator	Agilent	E4425B	GB39340038	Oct. 23, 2021	1 Year
14.	DC Power Supply	Longwei	TPR-6420D	020215240	N/A	N/A



1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
	:	Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.8. Description of Test Facility

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

FCC-Registration No.: 184111

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. 184111.

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.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(3)	Conducted Peak Output Power	PASS
15.247(a)(2)	6dB Occupied Bandwidth	PASS
15.247(e)	Power Spectral Density	PASS
15.247(d)	Band Edge	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		



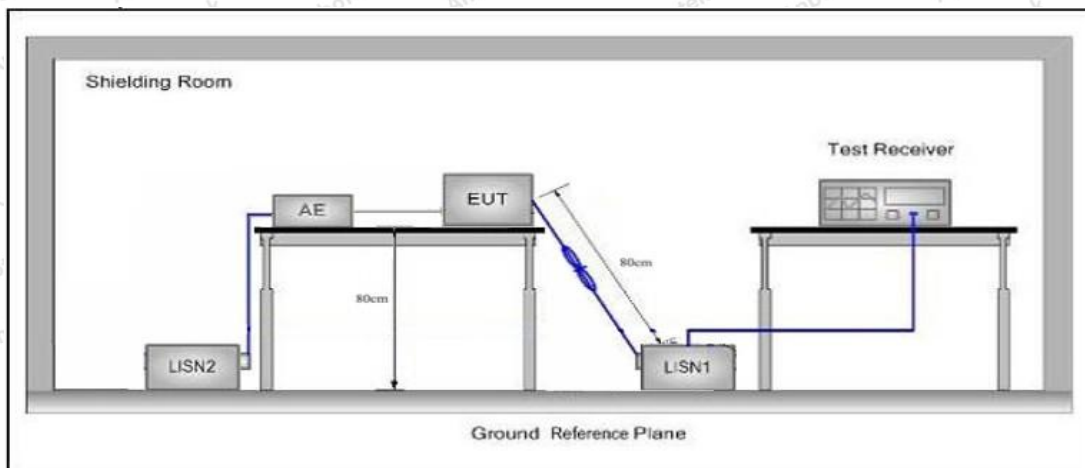
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
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	

Remark: (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.

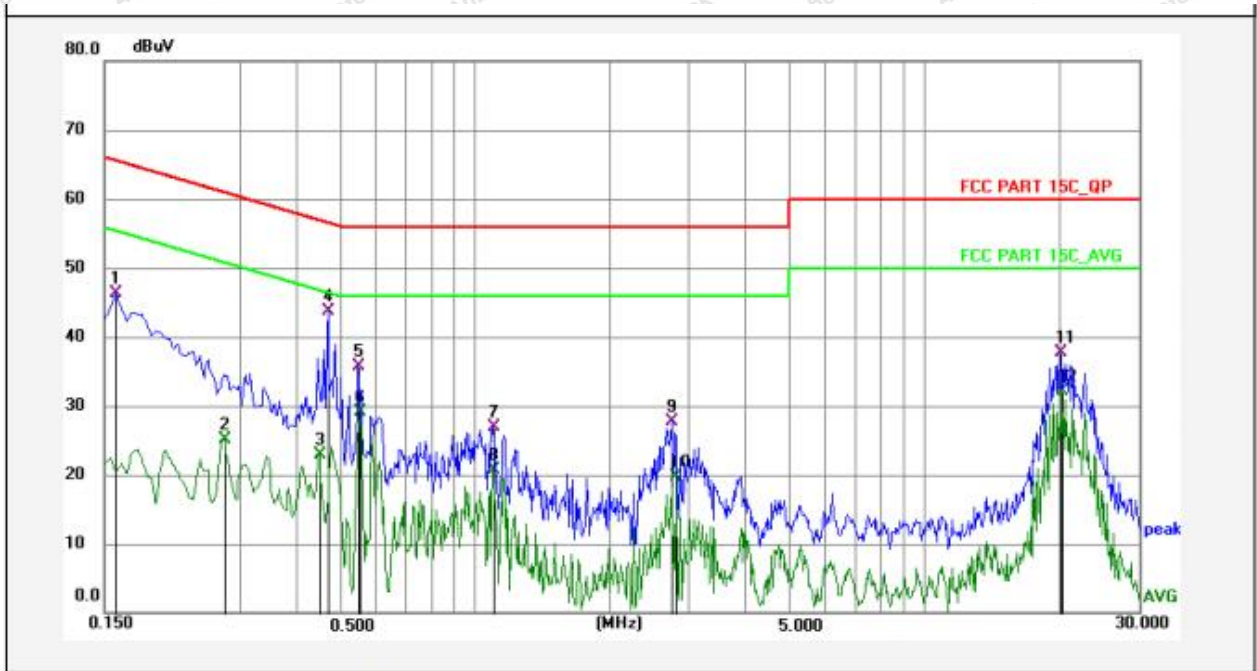
AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

Please to see the following pages.



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: 802.11n(HT20) 2462MHz
 Test Specification: AC 120V, 60Hz
 Comment: Live Line
 Temp.(°C)/Hum.(%RH): 25.6°C/54%RH

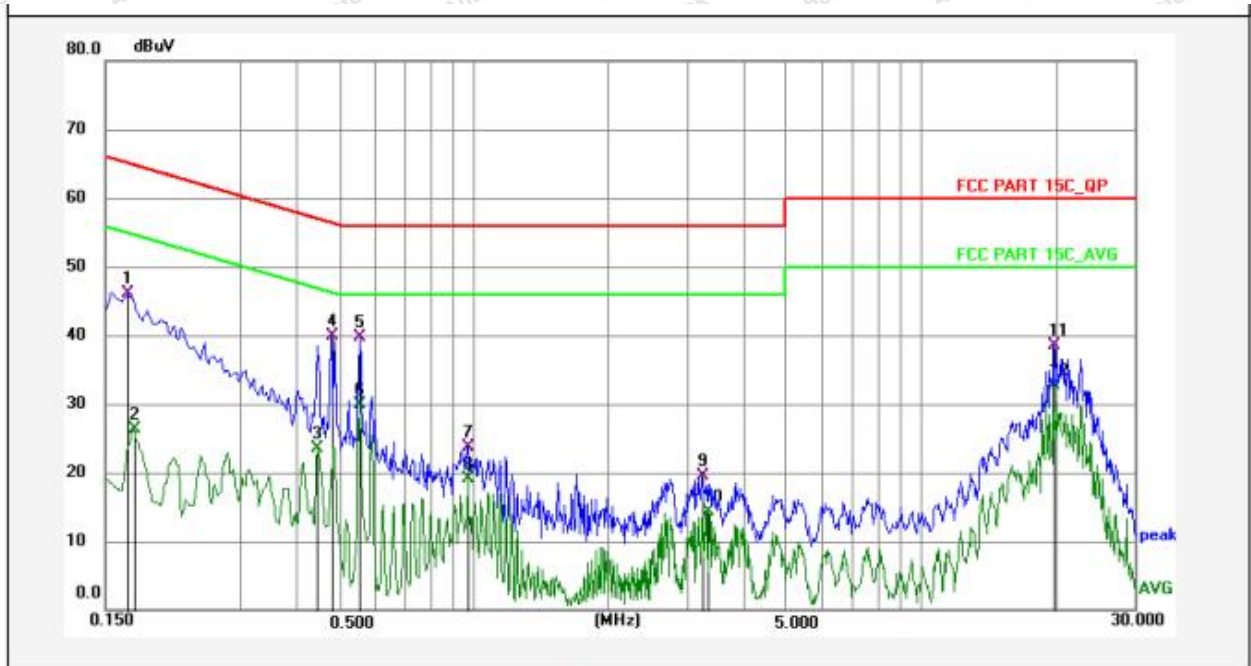


No.	Freq. (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit (dBUV)	Over Limit (dB)	Detector	Remark
1	0.1590	45.49	0.91	46.40	65.52	-19.12	QP	
2	0.2760	24.24	0.91	25.15	50.94	-25.79	AVG	
3	0.4515	22.06	0.87	22.93	46.85	-23.92	AVG	
4	0.4695	42.78	0.87	43.65	56.52	-12.87	QP	
5	0.5505	34.89	0.88	35.77	56.00	-20.23	QP	
6	0.5550	28.26	0.88	29.14	46.00	-16.86	AVG	
7	1.0950	25.94	0.94	26.88	56.00	-29.12	QP	
8	1.0950	19.71	0.94	20.65	46.00	-25.35	AVG	
9	2.7375	26.69	0.93	27.62	56.00	-28.38	QP	
10	2.8050	18.70	0.94	19.64	46.00	-26.36	AVG	
11	20.0355	36.76	1.02	37.78	60.00	-22.22	QP	
12	20.2065	30.99	1.04	32.03	50.00	-17.97	AVG	



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: 802.11n(HT20) 2462MHz
 Test Specification: AC 120V, 60Hz
 Comment: Neutral Line
 Temp.(°C)/Hum.(%RH): 25.6°C/54%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1680	45.26	0.80	46.06	65.06	-19.00	QP	
2	0.1725	25.48	0.80	26.28	54.84	-28.56	AVG	
3	0.4470	22.58	0.83	23.41	46.93	-23.52	AVG	
4	0.4785	39.08	0.83	39.91	56.37	-16.46	QP	
5	0.5550	38.81	0.84	39.65	56.00	-16.35	QP	
6	0.5550	29.02	0.84	29.86	46.00	-16.14	AVG	
7	0.9735	22.83	0.85	23.68	56.00	-32.32	QP	
8	0.9735	18.32	0.85	19.17	46.00	-26.83	AVG	
9	3.2325	18.54	0.94	19.48	56.00	-36.52	QP	
10	3.3360	13.30	0.94	14.24	46.00	-31.76	AVG	
11	19.8285	36.92	1.51	38.43	60.00	-21.57	QP	
12	19.8285	31.28	1.51	32.79	50.00	-17.21	AVG	



4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
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
-		-	74.0	Peak	3

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.

4.2. Test Setup

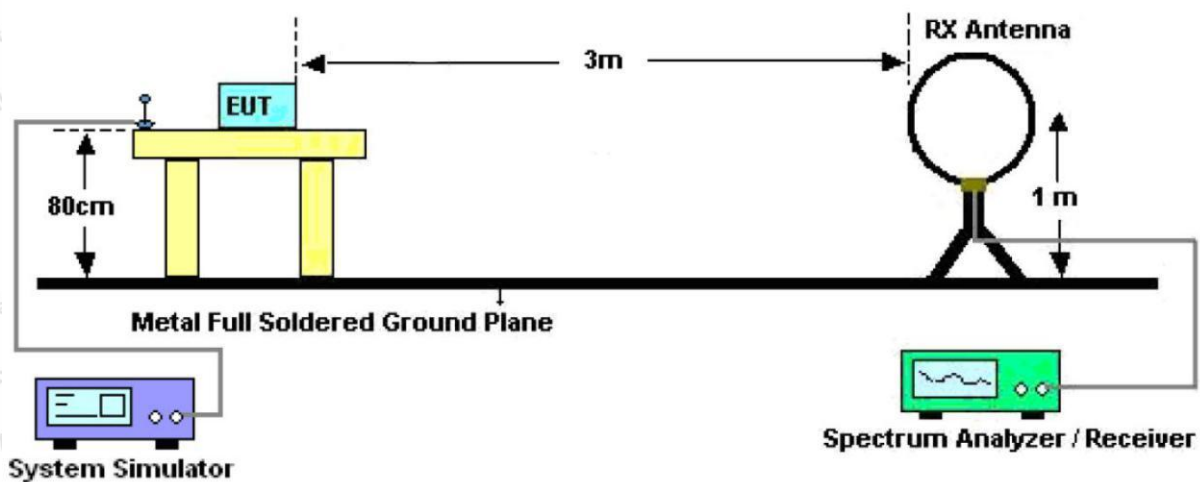


Figure 1. Below 30MHz



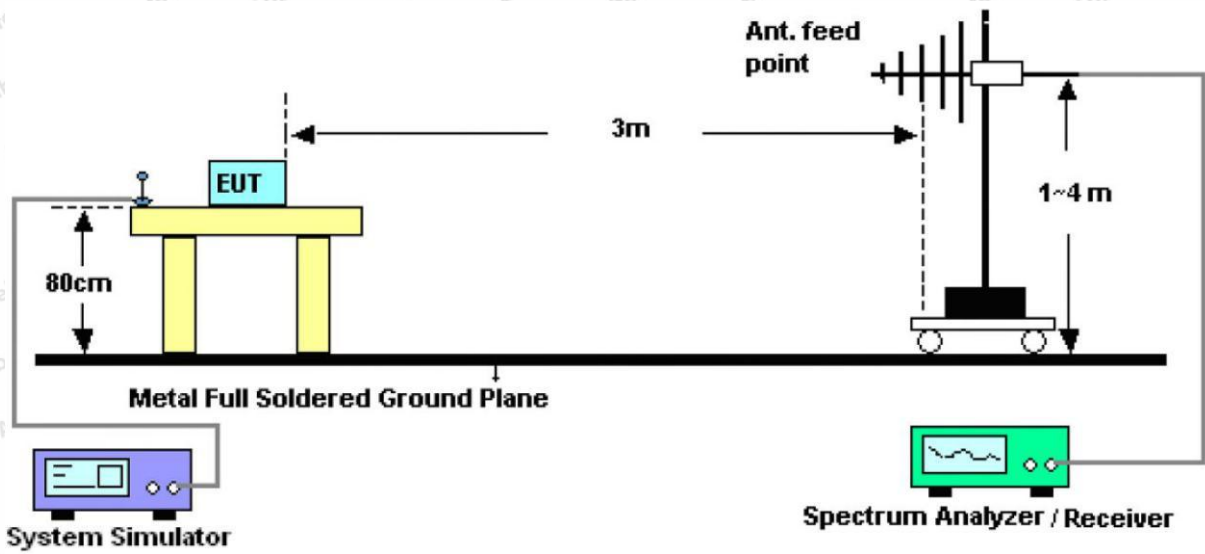


Figure 2. 30MHz to 1GHz

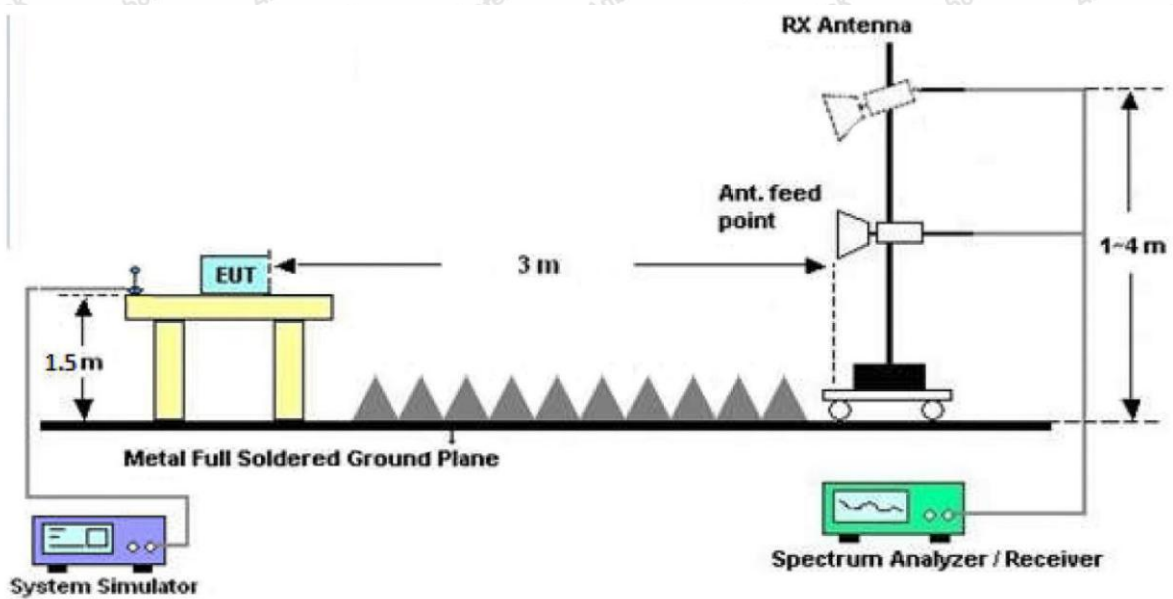


Figure 3. Above 1 GHz

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.

For average measurement:

-VBW=10Hz, When duty cycle is no less than 98 percent

-VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.4 duty cycle.

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.

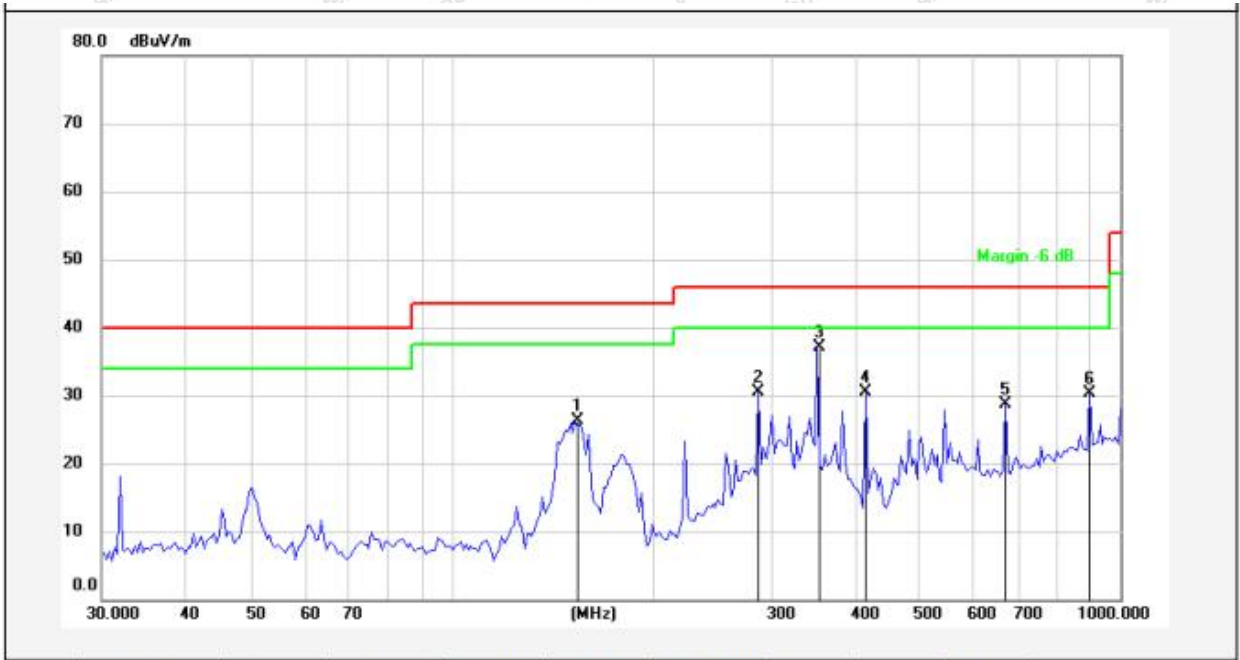
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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



Test Results (30~1000MHz)

Test Mode: 802.11n(HT20) 2462MHz
 Power Source: AC 120V, 60Hz
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 25.4°C/57%RH

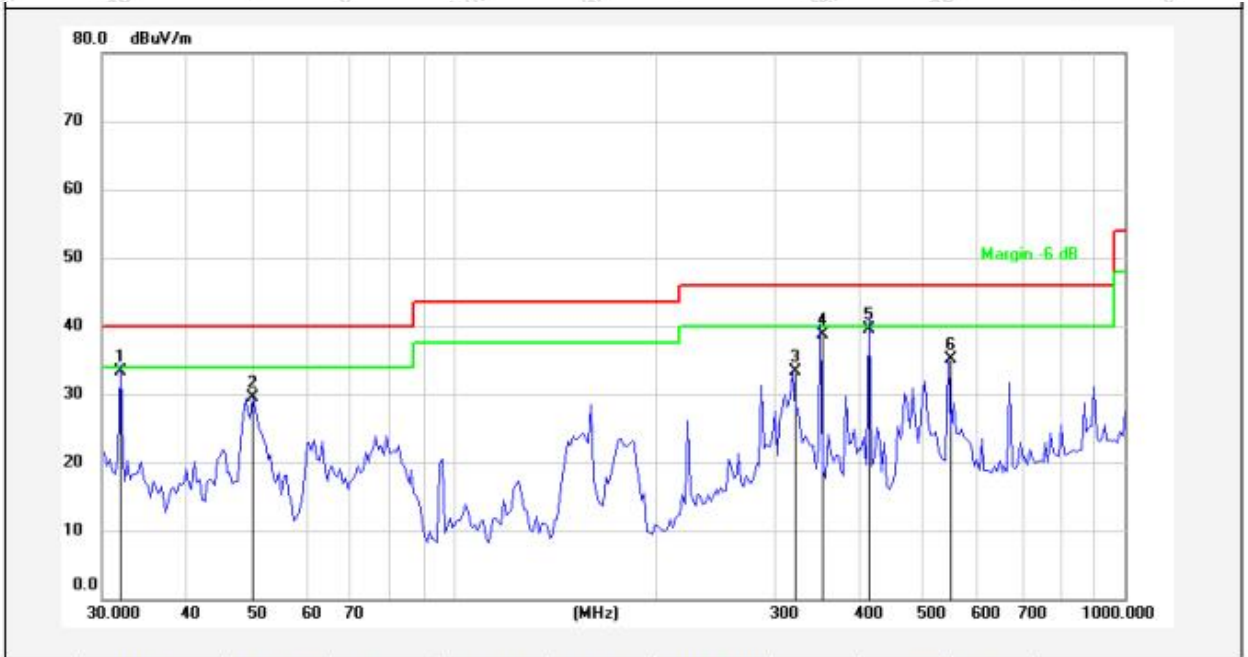


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	153.2004	50.75	-24.50	26.25	43.50	-17.25	QP			
2	287.9904	49.72	-19.23	30.49	46.00	-15.51	QP			
3	352.3251	55.16	-17.96	37.20	46.00	-8.80	QP			
4	416.1791	46.86	-16.39	30.47	46.00	-15.53	QP			
5	674.0252	39.12	-10.49	28.63	46.00	-17.37	QP			
6	900.1473	35.76	-5.40	30.36	46.00	-15.64	QP			



Test Results (30~1000MHz)

Test Mode: 802.11n(HT20) 2462MHz
 Power Source: AC 120V, 60Hz
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 25.4°C/57%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	31.8986	57.03	-23.78	33.25	40.00	-6.75	QP			
2	50.3206	52.02	-22.43	29.59	40.00	-10.41	QP			
3	319.9370	51.65	-18.35	33.30	46.00	-12.70	QP			
4	352.3251	56.70	-17.96	38.74	46.00	-7.26	QP			
5	416.1791	55.96	-16.39	39.57	46.00	-6.43	QP			
6	546.1393	47.86	-12.85	35.01	46.00	-10.99	QP			



Test Results (Above 1000MHz)

Test Mode: 802.11n(HT20) Mode				Test channel: Lowest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	27.85	15.31	43.16	74.00	-30.84	Vertical
7236.00	28.70	18.06	46.76	74.00	-27.24	Vertical
9648.00	29.44	23.77	53.21	74.00	-20.79	Vertical
12060.00	*			74.00		Vertical
14472.00	*			74.00		Vertical
4824.00	28.47	15.31	43.78	74.00	-30.22	Horizontal
7236.00	27.70	18.06	45.76	74.00	-28.24	Horizontal
9648.00	27.53	23.77	51.30	74.00	-22.70	Horizontal
12060.00	*			74.00		Horizontal
14472.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	18.94	15.31	34.25	54.00	-19.75	Vertical
7236.00	19.57	18.06	37.63	54.00	-16.37	Vertical
9648.00	19.69	23.77	43.46	54.00	-10.54	Vertical
12060.00	*			54.00		Vertical
14472.00	*			54.00		Vertical
4824.00	19.02	15.31	34.33	54.00	-19.67	Horizontal
7236.00	18.28	18.06	36.34	54.00	-17.66	Horizontal
9648.00	18.50	23.77	42.27	54.00	-11.73	Horizontal
12060.00	*			54.00		Horizontal
14472.00	*			54.00		Horizontal



Test Results (Above 1000MHz)

Test Mode: 802.11n(HT20) Mode				Test channel: Middle		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.22	15.41	44.63	74.00	-29.37	Vertical
7311.00	28.89	18.01	46.90	74.00	-27.10	Vertical
9748.00	29.76	23.79	53.55	74.00	-20.45	Vertical
12185.00	*			74.00		Vertical
14622.00	*			74.00		Vertical
4874.00	29.46	15.41	44.87	74.00	-29.13	Horizontal
7311.00	30.27	18.01	48.28	74.00	-25.72	Horizontal
9748.00	30.97	23.79	54.76	74.00	-19.24	Horizontal
12185.00	*			74.00		Horizontal
14622.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	19.92	15.41	35.33	54.00	-18.67	Vertical
7311.00	18.79	18.01	36.80	54.00	-17.20	Vertical
9748.00	20.46	23.79	44.25	54.00	-9.75	Vertical
12185.00	*			54.00		Vertical
14622.00	*			54.00		Vertical
4874.00	19.36	15.41	34.77	54.00	-19.23	Horizontal
7311.00	19.67	18.01	37.68	54.00	-16.32	Horizontal
9748.00	20.87	23.79	44.66	54.00	-9.34	Horizontal
12185.00	*			54.00		Horizontal
14622.00	*			54.00		Horizontal



Test Results (Above 1000MHz)

Test Mode: 802.11n(HT20) Mode				Test channel: Highest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	27.39	15.51	42.90	74.00	-31.10	Vertical
7386.00	28.42	17.97	46.39	74.00	-27.61	Vertical
9848.00	29.73	23.82	53.55	74.00	-20.45	Vertical
12310.00	*			74.00		Vertical
14772.00	*			74.00		Vertical
4924.00	26.66	15.51	42.17	74.00	-31.83	Horizontal
7386.00	27.57	17.97	45.54	74.00	-28.46	Horizontal
9848.00	27.42	23.82	51.24	74.00	-22.76	Horizontal
12310.00	*			74.00		Horizontal
14772.00	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	18.32	15.51	33.83	54.00	-20.17	Vertical
7386.00	19.34	17.97	37.31	54.00	-16.69	Vertical
9848.00	20.24	23.82	44.06	54.00	-9.94	Vertical
12310.00	*			54.00		Vertical
14772.00	*			54.00		Vertical
4924.00	18.03	15.51	33.54	54.00	-20.46	Horizontal
7386.00	17.97	17.97	35.94	54.00	-18.06	Horizontal
9848.00	18.69	23.82	42.51	54.00	-11.49	Horizontal
12310.00	*			54.00		Horizontal
14772.00	*			54.00		Horizontal

Remark:

1. During the test, pre-scan the 802.11b,g,n(HT20),n(HT40) mode, and found the 802.11n(HT20)mode is worse case , the report only record this mode.
2. Result=Reading + Factor
3. “*”, means this data is the too weak instrument of signal is unable to test.



Radiated Band Edge:

Test Mode: 802.11b Mode				Test channel: Lowest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	38.06	9.58	47.64	74.00	-26.36	Horizontal
2390.00	40.54	9.73	50.27	74.00	-23.73	Horizontal
2310.00	39.32	9.58	48.90	74.00	-25.10	Vertical
2390.00	46.13	9.73	55.86	74.00	-18.14	Vertical
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	28.68	9.58	38.26	54.00	-15.74	Horizontal
2390.00	35.87	9.73	45.60	54.00	-8.40	Horizontal
2310.00	30.04	9.58	39.62	54.00	-14.38	Vertical
2390.00	38.20	9.73	47.93	54.00	-6.07	Vertical

Test Mode: 802.11b Mode				Test channel: Highest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	46.23	9.91	56.14	74.00	-17.86	Horizontal
2500.00	40.17	9.94	50.11	74.00	-23.89	Horizontal
2483.50	46.59	9.91	56.50	74.00	-17.50	Vertical
2500.00	39.80	9.94	49.74	74.00	-24.26	Vertical
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.39	9.91	47.30	54.00	-6.70	Horizontal
2500.00	29.19	9.94	39.13	54.00	-14.87	Horizontal
2483.50	38.92	9.91	48.83	54.00	-5.17	Vertical
2500.00	29.64	9.94	39.58	54.00	-14.42	Vertical

Remark: 1. Result=Reading + Factor



Radiated Band Edge:

Test Mode: 802.11g Mode				Test channel: Lowest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	36.85	9.58	46.43	74.00	-27.57	Horizontal
2390.00	40.49	9.73	50.22	74.00	-23.78	Horizontal
2310.00	38.81	9.58	48.39	74.00	-25.61	Vertical
2390.00	42.46	9.73	52.19	74.00	-21.81	Vertical
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	29.10	9.58	38.68	54.00	-15.32	Horizontal
2390.00	35.34	9.73	45.07	54.00	-8.93	Horizontal
2310.00	30.05	9.58	39.63	54.00	-14.37	Vertical
2390.00	35.84	9.73	45.57	54.00	-8.43	Vertical

Test Mode: 802.11g Mode				Test channel: Highest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	46.23	9.91	56.14	74.00	-17.86	Horizontal
2500.00	40.10	9.94	50.04	74.00	-23.96	Horizontal
2483.50	46.35	9.91	56.26	74.00	-17.74	Vertical
2500.00	39.72	9.94	49.66	74.00	-24.34	Vertical
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	35.56	9.91	45.47	54.00	-8.53	Horizontal
2500.00	28.29	9.94	38.23	54.00	-15.77	Horizontal
2483.50	37.87	9.91	47.78	54.00	-6.22	Vertical
2500.00	29.17	9.94	39.11	54.00	-14.89	Vertical

Remark: 1. Result=Reading + Factor



Radiated Band Edge:

Test Mode: 802.11n (HT20) Mode				Test channel: Lowest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	34.85	9.58	44.43	74.00	-29.57	Horizontal
2390.00	38.49	9.73	48.22	74.00	-25.78	Horizontal
2310.00	37.81	9.58	47.39	74.00	-26.61	Vertical
2390.00	40.46	9.73	50.19	74.00	-23.81	Vertical
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	27.78	9.58	37.36	54.00	-16.64	Horizontal
2390.00	33.11	9.73	42.84	54.00	-11.16	Horizontal
2310.00	27.66	9.58	37.24	54.00	-16.76	Vertical
2390.00	33.84	9.73	43.57	54.00	-10.43	Vertical

Test Mode: 802.11n (HT20) Mode				Test channel: Highest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	44.00	9.91	53.91	74.00	-20.09	Horizontal
2500.00	38.17	9.94	48.11	74.00	-25.89	Horizontal
2483.50	45.59	9.91	55.50	74.00	-18.50	Vertical
2500.00	39.80	9.94	49.74	74.00	-24.26	Vertical
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	33.54	9.91	43.45	54.00	-10.55	Horizontal
2500.00	28.44	9.94	38.38	54.00	-15.62	Horizontal
2483.50	34.69	9.91	44.60	54.00	-9.40	Vertical
2500.00	29.31	9.94	39.25	54.00	-14.75	Vertical

Remark: 1. Result=Reading + Factor



Radiated Band Edge:

Test Mode: 802.11n (HT40) Mode				Test channel: Lowest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	37.32	9.58	46.90	74.00	-27.10	Horizontal
2390.00	41.49	9.73	51.22	74.00	-22.78	Horizontal
2310.00	39.81	9.58	49.39	74.00	-24.61	Vertical
2390.00	42.67	9.73	52.40	74.00	-21.60	Vertical
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	28.70	9.58	38.28	54.00	-15.72	Horizontal
2390.00	34.18	9.73	43.91	54.00	-10.09	Horizontal
2310.00	28.86	9.58	38.44	54.00	-15.56	Vertical
2390.00	33.24	9.73	42.97	54.00	-11.03	Vertical

Test Mode: 802.11n (HT40) Mode				Test channel: Highest		
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	43.91	9.91	53.82	74.00	-20.18	Horizontal
2500.00	38.85	9.94	48.79	74.00	-25.21	Horizontal
2483.50	45.72	9.91	55.63	74.00	-18.37	Vertical
2500.00	40.30	9.94	50.24	74.00	-23.76	Vertical
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	33.24	9.91	43.15	54.00	-10.85	Horizontal
2500.00	30.44	9.94	40.38	54.00	-13.62	Horizontal
2483.50	34.69	9.91	44.60	54.00	-9.40	Vertical
2500.00	30.31	9.94	40.25	54.00	-13.75	Vertical

Remark: 1. Result=Reading + Factor

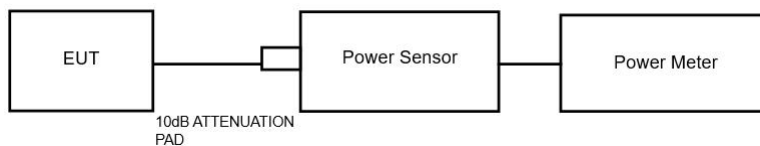


5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (b)(3)
Test Limit	1W (30dBm)

5.2. Test Setup



5.3. Test Procedure

1. The Transmitter output (antenna port) was connected to the power meter.
2. Turn on the EUT and power meter and then record the power value.
3. Repeat above procedures on all channels needed to be tested.

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

5.4. Test Data

Pass

Please refer to Clause 5 of the Appendix Test Data.

Additional test for duty cycle.

Please refer to Clause 4 of the Appendix Test Data.

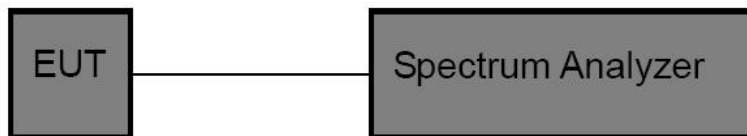


6. 6DB Occupancy Bandwidth Test

6.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (a)(2)
Test Limit	≥500kHz

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:
 - RBW= 100kHz, VBW≥3*RBW
 - Detector= Peak
 - Trace mode= Max hold.
 - Sweep- auto couple.
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

6.4. Test Data

Pass

Please refer to Clause 1 of the Appendix Test Data.

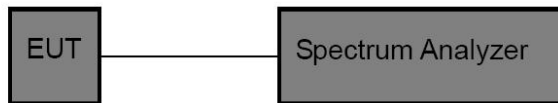


7. Power Spectral Density Test

7.1. Test Standard and Limit

Test Standard	FCC Part15 C Section
Test Limit	8dBm/3KHz

7.2. Test Setup



7.3. Test Procedure

1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5xDTS BW
3. Record the max. reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.

7.4. Test Data

Pass

Please refer to Clause 6 of the Appendix Test Data.

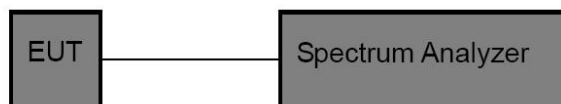


8. 100kHz Bandwidth of Frequency Band Edge Requirement

8.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d)
Test Limit	In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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).

8.2. Test Setup



8.3. Test Procedure

Using the following spectrum analyzer setting:

1. Set the RBW = 100KHz.
2. Set the VBW = 300KHz.
3. Sweep time = auto couple.
4. Detector function = peak.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.

8.4. Test Data

Pass

Please refer to Clause 3 of the Appendix Test Data.



9. Antenna Requirement

9.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
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) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.</p>

9.2. Antenna Connected Construction

The antenna is a FPC antenna which permanently attached, and the best case gain of the antenna is 4.21dBi It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

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

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 -----

