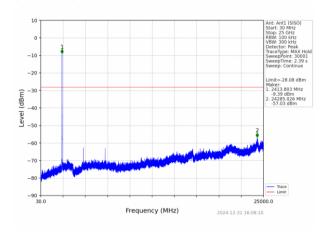
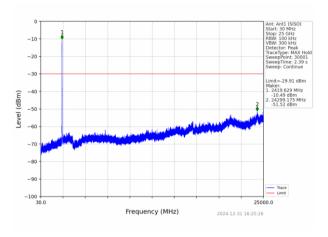


ANT 1

802.11b	802.11g
002.110	1 002.119

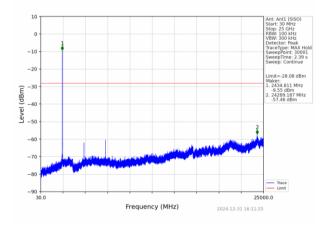
Lowest channel

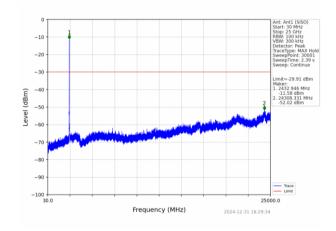




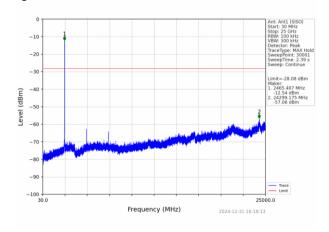
30MHz~25GHz

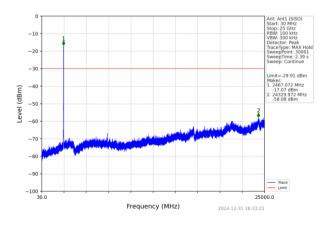
Middle channel





30MHz~25GHz



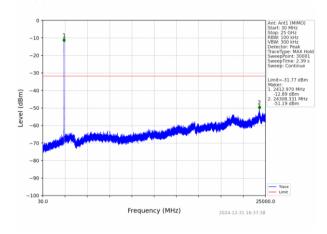


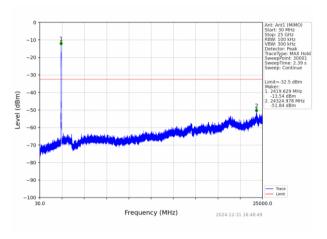
30MHz~25GHz



802.11n(HT20) 802.11n(HT40)

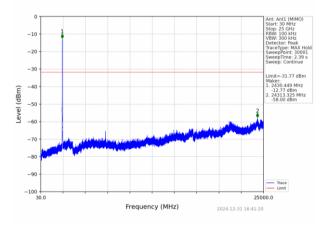
Lowest channel

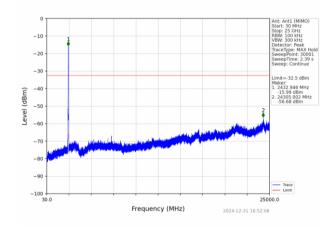




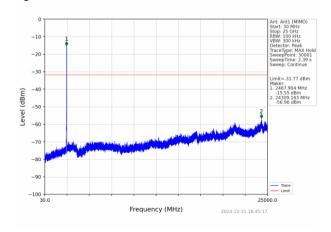
30MHz~25GHz

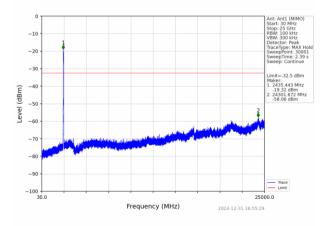
Middle channel





30MHz~25GHz





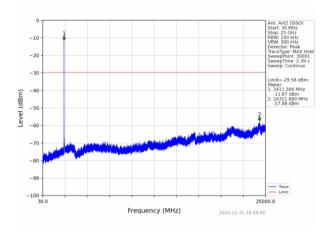
30MHz~25GHz

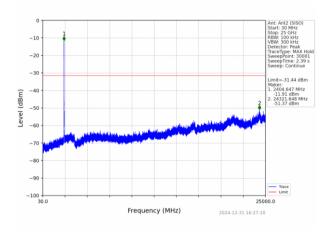


ANT 2

802.11b	802.11g
0021110	002.1.g

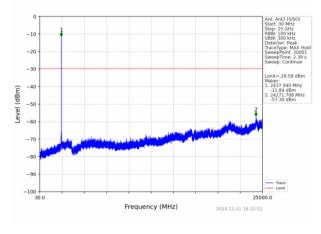
Lowest channel

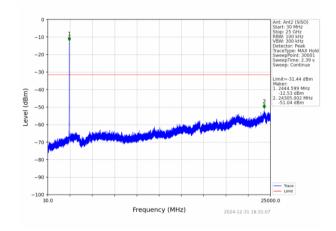




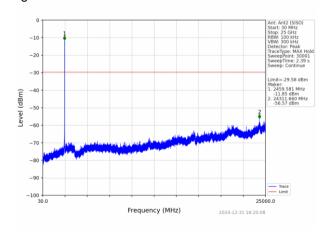
30MHz~25GHz

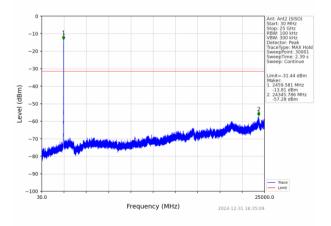
Middle channel





30MHz~25GHz



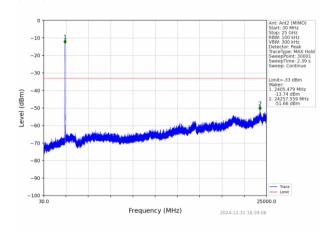


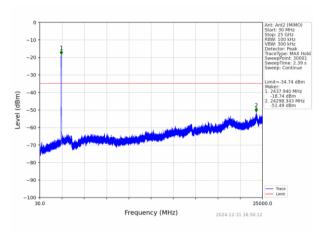
30MHz~25GHz



802.11n(HT20) 802.11n(HT40)

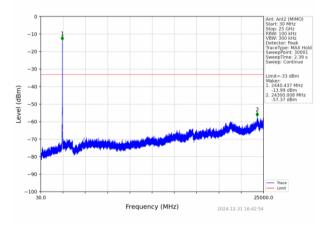
Lowest channel

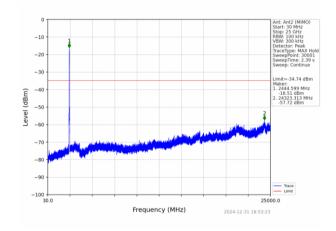




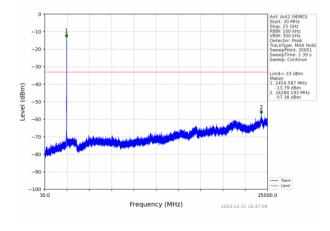
30MHz~25GHz

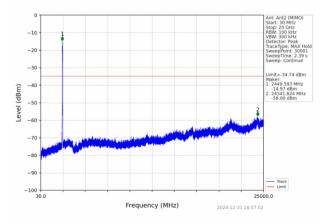
Middle channel





30MHz~25GHz





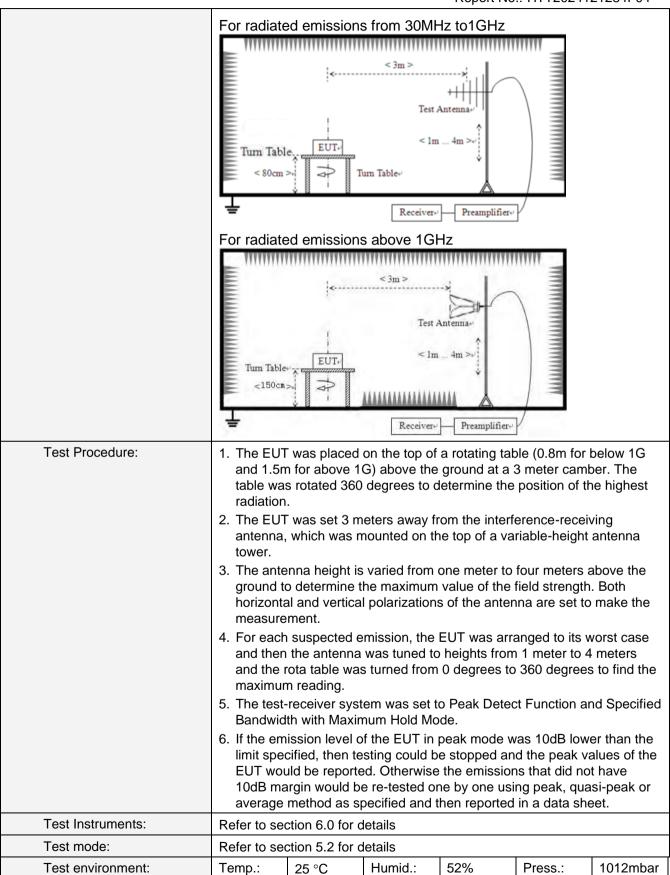
30MHz~25GHz



6.6.2. Radiated Emission Method

0.0.2. Nadiated L	illission Metriou									
Test Requirement:	FCC Part15 C Section	on 15	5.209							
Test Method:	ANSI C63.10:2013									
Test Frequency Range:	9kHz to 25GHz									
Test site:	Measurement Distar	nce: 3	3m							
Receiver setup:	Frequency									
	9KHz-150KHz	Z	Quasi-peak							
	150KHz-30MHz	Qι	ıasi-peak	9KH	łz	30KH	Z	Quasi-peak		
	30MHz-1GHz	Qι	uasi-peak	120K	Hz	300KH	łz	Quasi-peak		
	Above 1GHz		Peak	1MF	łz	3MHz	<u>z</u>	Peak		
	Above 1G112		Peak	1MF	Ηz	10Hz		Average		
Limit:	Frequency		Limit (u\	//m)	V	alue	N	Measurement Distance		
	0.009MHz-0.490MHz 2400/F(KHz) QP 300									
	0.490MHz-1.705M	lHz	24000/F(KHz)		QP		30m		
	1.705MHz-30MH	lz	30			QP		30m		
	30MHz-88MHz		100		QP					
	88MHz-216MHz	<u> </u>	150			QP				
	216MHz-960MH	Z	200			QP		3m		
	960MHz-1GHz		500			QP		Sili		
	Above 1GHz		500		Av	erage				
	7.5575 15112		5000		F	Peak				
Test setup:	For radiated emiss	sions	from 9kH	z to 30)MH:	Z				
	**********	11111	*********	*******	//////	*****	_			
	For radiated emissions from 9kHz to 30MHz									





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Test voltage:	AC 120V, 60Hz
Test results:	Pass

Remarks:

- 1. Only the worst case Main Antenna test data.
- 2.Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement data:

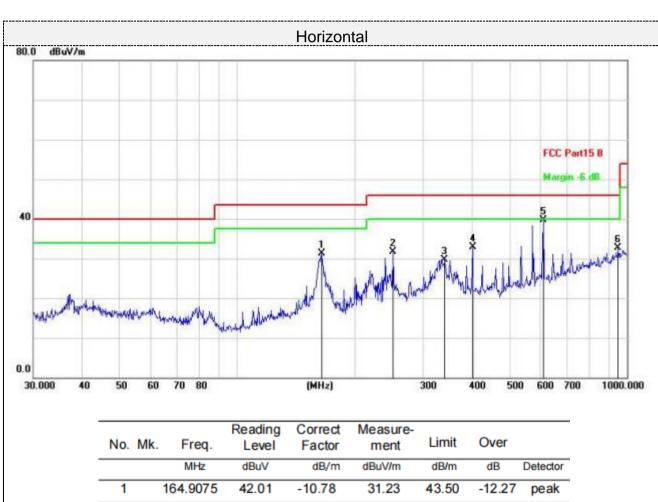
■ 9kHz~30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.



■ Below 1GHz

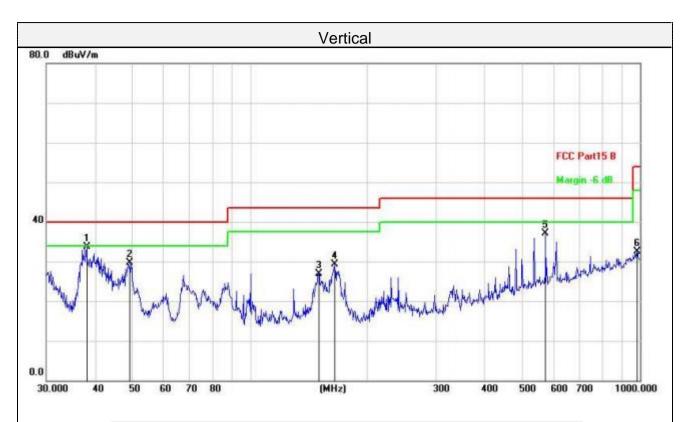
Pre-scan all test modes, found worst case at 802.11b 2437MHz, and so only show the test result of 802.11b 2437MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dB/m	dB	Detector
1		164.9075	42.01	-10.78	31.23	43.50	-12.27	peak
2		251.1804	43.17	-11.47	31.70	46.00	-14.30	peak
3		340.7817	40.12	-10.45	29.67	46.00	-16.33	peak
4		401.8385	40.85	-7.98	32.87	46.00	-13.13	peak
5	*	609.9217	43.07	-3.34	39.73	46.00	-6.27	peak
6		948.7610	29.46	3.15	32.61	46.00	-13.39	peak

Final Level =Receiver Read level + Correct Factor





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dB/m	dB	Detector
1	*	38.0783	44.34	-10.55	33.79	40.00	-6.21	peak
2		49.1865	40.97	-11.17	29.80	40.00	-10.20	peak
3		150.0108	37.53	-10.56	26.97	43.50	-16.53	peak
4		164.9075	40.07	-10.78	29.29	43.50	-14.21	peak
5		572.6144	41.16	-3.97	37.19	46.00	-8.81	peak
6		982.6200	29.04	3.46	32.50	54.00	-21.50	peak

Final Level =Receiver Read level + Correct Factor



■ Above 1-25GHz

Note: During the test, pre-scan the 802.11b/802.11g/802.11n (H20)/802.11n (H40) modulation, and found the 802.11b modulation which it is worse case.

802.11b:

Freq	uency(MI	٦z):	2412		Polarity:		HORIZONTAL			
Frequency	Emission Level			Margin	Raw Value	Antenna Factor	Cable Factor	Pre- amplifier	Correction Factor	
(MHz)	(dBuV/m)			(dB)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)	
4824.00	60.22	PK	74	13.78	54.40	31.05	6.52	31.75	5.82	
4824.00	44.38	AV	54	9.62	38.56	31.05	6.52	31.75	5.82	
7236.00	56.66	PK	74	17.34	43.85	36.08	8.18	31.45	12.81	
7236.00	47.62	AV	54	6.38	34.81	36.08	8.18	31.45	12.81	

Frequency(MHz):			2412		Polarity:		VERTICAL			
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
4824.00	60.72	PK	74	13.28	54.90	31.05	6.52	31.75	5.82	
4824.00	43.60	AV	54	10.40	37.78	31.05	6.52	31.75	5.82	
7236.00	56.87	PK	74	17.13	44.06	36.08	8.18	31.45	12.81	
7236.00	46.51	AV	54	7.49	33.70	36.08	8.18	31.45	12.81	

Freq	uency(MH	z):	2437		Polarity:		HORIZONTAL			
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
4874.00	61.04	PK	74	12.96	54.60	31.25	6.7	31.51	6.44	
4874.00	44.25	AV	54	9.75	37.81	31.25	6.7	31.51	6.44	
7311.00	56.02	PK	74	17.98	42.88	36.25	8.31	31.42	13.14	
7311.00	46.37	AV	54	7.63	33.23	36.25	8.31	31.42	13.14	



Frequency(MHz):			2437		Polarity:		VERTICAL			
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
4874.00	61.35	PK	74	12.65	54.91	31.25	6.7	31.51	6.44	
4874.00	45.29	AV	54	8.71	38.85	31.25	6.7	31.51	6.44	
7311.00	57.02	PK	74	16.98	43.88	36.25	8.31	31.42	13.14	
7311.00	45.88	AV	54	8.12	32.74	36.25	8.31	31.42	13.14	

Freq	Frequency(MHz):			2462		Polarity:		HORIZONTAL			
Frequency (MHz)	Emission V Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)		
4924.00	59.99	PK	74	14.01	53.12	31.52	6.8	31.45	6.87		
4924.00	45.79	AV	54	8.21	38.92	31.52	6.8	31.45	6.87		
7386.00	55.45	PK	74	18.55	41.89	36.51	8.4	31.35	13.56		
7386.00	45.54	AV	54	8.46	31.98	36.51	8.4	31.35	13.56		

Frequ	Frequency(MHz):		2462		Polarity:		VERTICAL			
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
4924.00	61.51	PK	74	12.49	54.64	31.52	6.8	31.45	6.87	
4924.00	45.31	AV	54	8.69	38.44	31.52	6.8	31.45	6.87	
7386.00	57.23	PK	74	16.77	43.67	36.51	8.4	31.35	13.56	
7386.00	47.29	AV	54	6.71	33.73	36.51	8.4	31.35	13.56	

Remark:

⁽¹⁾ Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

⁽²⁾ When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed.



6.7. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

(i) 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 6dBi.

Antenna Connected Construction

The maximum gain of antenna was 4.30 dBi for ANT 1 and 2.98 dBi for ANT 2.

Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen HTT Technology Co., Ltd. does not assume any responsibility.



7. Test Setup Photo

Reference to the appendix I for details.

8. EUT Constructional Details

Reference to the appendix II for details.

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