





FCC TEST REPORT

Report No: STS1807042W16

Issued for

Shanghai Unihertz E-Commerce Co., Ltd

Room 302, No. 5, Lane 59, Shennan Rd, Minhang district, Shanghai, China 201108

Product Name:	Smart phone
Brand Name:	Unihertz
Model Name:	Atom
Series Model:	N/A
FCC ID:	2AK6CATOM
Test Standard:	FCC Part 15.407

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Industry Park, Nanshan district, shenzhen, China 201108





TEST RESULT CERTIFICATION

Applicant's name:	Shanghai Unihertz E-Commerce Co., Ltd
Address:	Room 302, No. 5, Lane 59, Shennan Rd, Minhang district,
	Shanghai, China 201108
Manufacture's Name:	OBLUE Communication Technology Co.,Ltd.
Address:	Room 406, Hivac Building, No. 2 North keji Rd, North Hi-Tech

Product description

Product Name : Smart phone
Brand Name : Unihertz

Model Name : Atom

Series Model.....: N/A

Test Standards: FCC Part15.407

Test procedure ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test:

Date of Issue...... 20 Aug. 2018

Test Result...... Pass

Technical Manager:

Chris chen

(Chris chen)

Seum She

(Sean she)

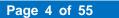
Authorized Signatory:

(Vita Li)





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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	20 Aug. 2018	STS1807042W16	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

§ 15.407,KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

FCC Part 15.407				
FCC standard	Test Item	Results		
15.207	AC Conducted Emission	PASS		
§ 15.407 (2) (26 dB) / § 15.407 (e) (6 dB)/ § 15.407 (a) (99%)	26dB/6dB &99% Bandwidth	PASS		
15.407(a) (1).(2).(3).(4).(5)	Maximum Conducted Output Power	PASS		
15.407(b)& 15.209	Radiated Emission And (bandedge Emissions) Measurement	PASS		
15.407(b)7	Conducted Emission And (bandedge Emissions) Measurement	PASS		
15.407(a) (1).(2).(3).(4).(5)	Power Spectral Density	PASS		
15.407(c)	Automatically Discontinue Transmission	PASS		
15.203/15.204	Antenna Requirement	PASS		

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

(2) all tests are according to ANSI C63.10-2013





Report No.: STS1807042W16

1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,

Fuyong Street, Bao'an District, Shenzhen, Guangdong, China CNAS Registration No.: L7649; FCC Registration No.: 625569 IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$ where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$ providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.71dB
4	Spurious emissions,conducted	±0.63dB
5	All emissions,radiated(<1G) 30MHz-200MHz	±3.80dB
6	All emissions,radiated(<1G) 200MHz-1000MHz	±3.97dB
7	All emissions,radiated(>1G)	±3.03dB



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	Smart phone		
Trade Name	Unihertz		
Model Name	Atom		
Series Model	N/A		
Model Difference	N/A		
	The EUT is a Smart	phone	
		IEEE 802.11a/ n (HT20) 5.180GHz-5.240GHz IEEE 802.11n (HT40) 5.190GHz-5.230GHz	
	Operation	IEEE 802.11a/ n (HT20)5.260GHz-5.320GHz IEEE 802.11n (HT40)5.270GHz-5.310GHz	
	Frequency:	IEEE 802.11a/ n (HT20)5.500GHz-5.700GHz IEEE 802.11n (HT40)5.510GHz-5.670GHz	
Product Description		IEEE 802.11a/ n (HT20)5.745GHz-5.825GHz IEEE 802.11a/ n (HT40)5.755GHz-5.795GHz	
	Modulation Type:	802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM	
	Antenna Designation: See Note 3		
	Max.Output Power(Conducted): 11.45dBm		
	Duty Cycle: >98%		
	More details of EUT technical specification, please refer to the User's Manual.		
Test Channel	Please refer to the Note 2.		
Adapter	Power supply and ADP(rating): Input: AC100-240V, 300mA, 50/60Hz Output: DC5V, 1500mA		
Battery	Battery(rating): Rated Voltage: 3.85V Charge Limit: 4.4V Capacity: 2000mAh		
Hardware version number	G35_V1.2		
Software version number	alps-mp-01.mp1		
Connecting I/O Port(s)	Please refer to the User's Manual		

^{&#}x27;Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



		requency of channel	
5.180	GHz-5.240GHz	5.500	GHz-5.720GHz
Channel	Frequency	Channel	Frequency
36	5180	100	5500
38	5190	102	5510
40	5200	104	5520
42	5210	108	5540
44	5220	110	5550
46	5230	112	5560
48	5240	116	5580
•		118	5590
5.260	GHz-5.320GHz	120	5600
Channel	Frequency	124	5620
52	5260	126	5630
54	5270	128	5640
56	5280	132	5660
58	5290	134	5670
60	5300	136	5680
62	5310	140	5700
64	5320		
5.745	GHz-5.825GHz		
Channel	Frequency		
149	5745		
151	5755		
153	5765		
157	5785		
159	5795		
161	5805		7
165	5825		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

5GHz:

For 802.11a/n (HT20)					
Channel Freq.(MHz) Channel Freq.(MHz)					
36	5180	52	5260		
40	5200	60	5300		
48	5240	64	5320		

For 802.11a/n (HT20)				
Channel Freq.(MHz) Channel Freq.(MHz)				
100	5500	149	5745	
116	5580	157	5785	
140	5700	165	5825	

1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-36886288 Fax: 0755-36886277 Http://www.stsapp.com E-mail: sts@stsapp.com



For 802.11n (HT40)				
Channel Freq.(MHz) Channel Freq.(MHz)				
38	5190	54	5270	
46	5230	62	5310	

For 802.11n (HT40)				
Channel Freq.(MHz) Channel Freq.(MHz)				
102	5510	151	5755	
110	5550	159	5795	
134	5670			

Ant.	Brand	Model Name	Ant Type	Connector	Gain (dBi)	NOTE
А	Unihertz	Atom	PIFA Antenna	N/A	Band 1: 1.07dBi Band 2: 0.56dBi Band 3: 2.48dBi Band 4: 2.56dBi	WLAN Ant.



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11a HT20 CH36&CH40&CH48	6 Mbps
Mode 2	TX IEEE 802.11a HT20 CH52&CH60&CH64	6 Mbps
Mode 3	TX IEEE 802.11a HT20 CH100&CH116&CH140	6 Mbps
Mode 4	TX IEEE 802.11a HT20 CH149&CH157&CH165	6 Mbps
Mode 5	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 6	TX IEEE 802.11n HT20 CH52&CH60&CH64	MCS 0
Mode 7	TX IEEE 802.11n HT20 CH100&CH116&CH140	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 9	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH54 &CH62	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH102&CH110&CH134	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH151&CH159	MCS 0

Note: (1) The measurements are performed at the highest, middle, lowest available channels.

- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (3) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.

AC Conducted Emission

to contacted zim	55.511
	Test Case
AC Conducted Emission	Mode 13: Keeping TX + WLAN Link

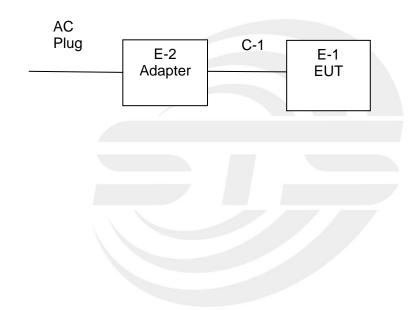


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious EmissionTest

E-1 EUT

Conducted Emission Test





2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-2	Adapter	Unihertz	HJ-0501500W2-US	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable shielded line (Charging)	NO	100cm	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in Length a column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESCI	102086	2017.10.15	2018.10.14
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2018.11.01
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2017.10.27	2018.10.26
Horn Antenna	Schwarzbeck	BBHA 9170	9170-0741	2016.03.06	2019.03.03
PreAmplifier	Agilent	8449B	60538	2017.10.15	2018.10.14
Passive Loop (9K30MHz)	ZHNAN	ZN3090C	16035	2018.03.11	2019.03.10
Low frequency cable	EM	R01	N/A	NCR	NCR
High frequency cable	SCHWARZBECK	AK9515H	SN-96286/9628 7	NCR	NCR
EMI Test Receiver	R&S	ESW44	101535	2018.07.10	2019.07.09

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
LISN	R&S	ENV216	101242	2017.10.15	2018.10.14
Conduction Cable	EM	C01	N/A	2018.03.11	2019.03.10

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2017.10.15	2018.10.14
Spectrum Analyzer	Agilent	N9020A	MY51110105	2018.03.08	2019.03.07
Signal Analyzer	Agilent	N9020A	MY49100060	2017.10.15	2018.10.14



3. EMC EMISSION TEST

3.1CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Class B	Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



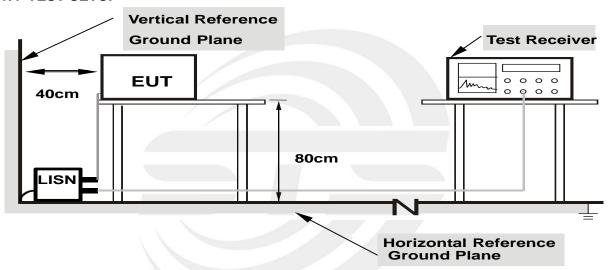
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

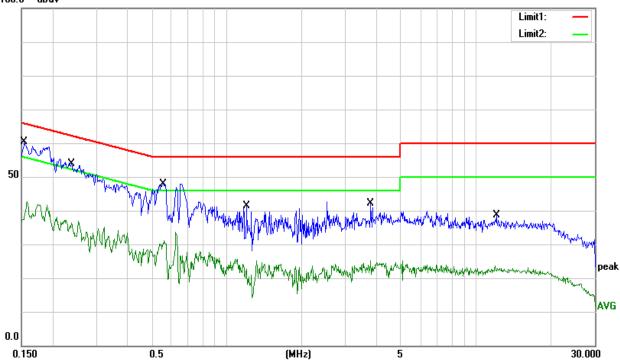


3.1.6 TEST RESULTS

Temperature:	26.7 ℃	Relative Humidity:	65%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 13		

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1540	50.49	9.79	60.28	65.78	-5.50	QP
0.1540	32.92	9.79	42.71	55.78	-13.07	AVG
0.2380	43.98	9.95	53.93	62.17	-8.24	QP
0.2380	27.13	9.95	37.08	52.17	-15.09	AVG
0.5580	37.96	9.97	47.93	56.00	-8.07	QP
0.5580	21.18	9.97	31.15	46.00	-14.85	AVG
1.2060	31.58	9.80	41.38	56.00	-14.62	QP
1.2060	15.91	9.80	25.71	46.00	-20.29	AVG
3.7820	32.19	9.83	42.02	56.00	-13.98	QP
3.7820	15.25	9.83	25.08	46.00	-20.92	AVG
12.0980	28.50	10.22	38.72	60.00	-21.28	QP
12.0980	13.32	10.22	23.54	50.00	-26.46	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)-Limit 100.0 dBuV

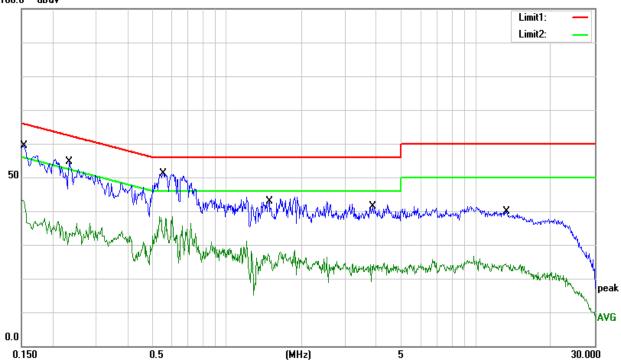




Temperature:	26.7 ℃	Relative Humidity:	65%
Test Voltage	AC 120V/60Hz	Phase:	N
Test Mode	Mode 13		

Frequency	Reading	Correct	Result	Limit	Margin	Domork
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1540	49.62	9.76	59.38	65.78	-6.40	QP
0.1540	31.80	9.76	41.56	55.78	-14.22	AVG
0.2340	44.61	10.01	54.62	62.31	-7.69	QP
0.2340	26.32	10.01	36.33	52.31	-15.98	AVG
0.5580	41.26	9.95	51.21	56.00	-4.79	QP
0.5580	28.55	9.95	38.50	46.00	-7.50	AVG
1.4860	33.05	9.83	42.88	56.00	-13.12	QP
1.4860	17.43	9.83	27.26	46.00	-18.74	AVG
3.8420	31.34	9.94	41.28	56.00	-14.72	QP
3.8420	14.29	9.94	24.23	46.00	-21.77	AVG
13.2940	29.87	10.02	39.89	60.00	-20.11	QP
13.2940	14.45	10.02	24.47	50.00	-25.53	AVG

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)-Limit 100.0 dBuV





3.2 RADIATED EMISSION AND (BANDEDGE) MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.407(b)7& 15.205/209(a), then the (a); limit in the table below has to be followed.

the (a), with the table below has to be followed.						
Frequencies	Field Strength	Measurement Distance				
(MHz)	(micorvolts/meter)	(meters)				
0.009~0.490	2400/F(KHz)	300				
0.490~1.705	24000/F(KHz)	30				
1.705~30.0	30	30				
30~88	100	3				
88~216	150	3				
216~960	200	3				
Above 960	500	3				

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	Class B (dBuV/m) (at 3M)			
FREQUENCY (MHz)	PEAK	AVERAGE		
Above 1000	74	54		

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15E.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	10th carrier harmonic(Peak/AV)		
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz		

For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz /3 MHz		



Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

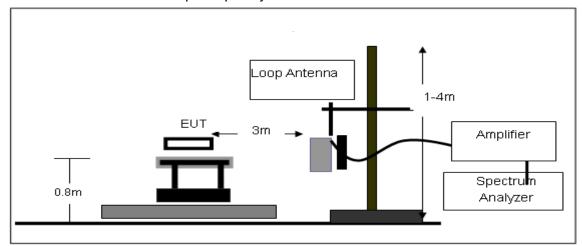
3.2.2 DEVIATION FROM TEST STANDARD

No deviation

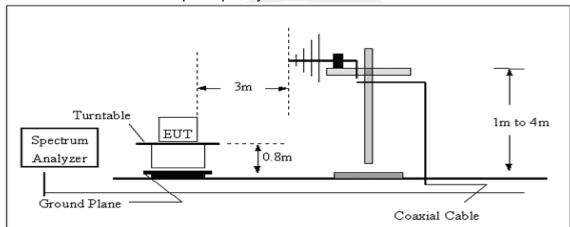


3.2.3 TEST SETUP

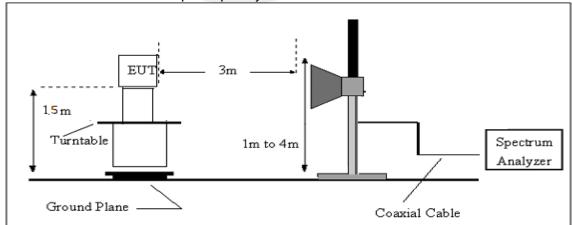
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz





3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG



3.2.6 TEST RESULTS (Between 9KHz - 30 MHz)

Temperature:	24.8 ℃	Relative Humidtity:	60%
Test Voltage:	DC 3.85V from Battery	Polarization :	
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



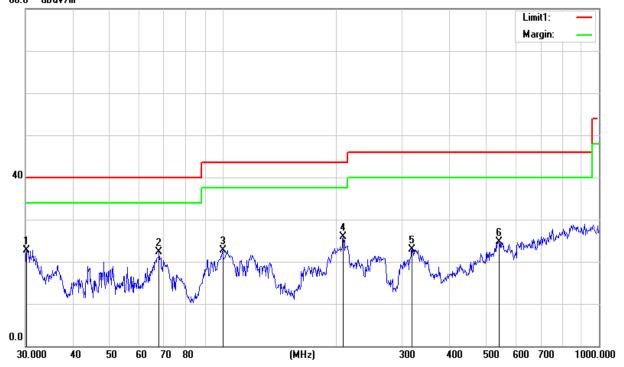
3.2.7 TEST RESULTS (Between 30MHz - 1GHz)

Temperature	24.8 ℃	Relative Humidity	60%
Test Voltage	DC 3.85V from Battery	Polarization	Horizontal
Test Mode	Mode 1-12(Mode 5-6M worst mode)		

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
30.2110	34.00	-11.30	22.70	40.00	-17.30	QP
67.9128	46.54	-24.15	22.39	40.00	-17.61	QP
100.2286	41.92	-19.17	22.75	43.50	-20.75	QP
209.3130	45.67	-19.78	25.89	43.50	-17.61	QP
318.8170	37.14	-14.21	22.93	46.00	-23.07	QP
543.2740	31.61	-6.92	24.69	46.00	-21.31	QP

Remark:

1. Margin = Result (Result = Reading + Factor)—Limit 80.0 dBuV/m

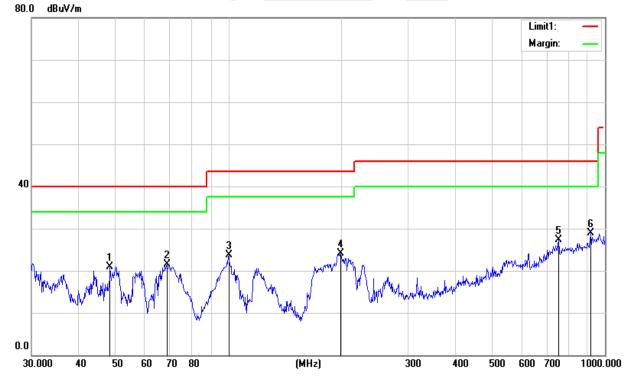




Temperature	24.8℃	Relative Humidity	60%
Test Voltage	DC 3.85V from Battery	Polarization	Vertical
Test Mode	Mode 1-12(Mode 5-6M worst mode)		

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
48.5016	41.53	-20.71	20.82	40.00	-19.18	QP
68.6310	45.58	-24.14	21.44	40.00	-18.56	QP
100.2286	42.92	-19.17	23.75	43.50	-19.75	QP
198.5880	44.24	-20.19	24.05	43.50	-19.45	QP
752.7432	30.78	-3.57	27.21	46.00	-18.79	QP
916.0687	30.71	-1.71	29.00	46.00	-17.00	QP

1. Margin = Result (Result = Reading + Factor)—Limit





3.2.8 TEST RESULTS (Above 1000 MHz)

Band I 5150-5250MHz

				Ban	d I(5.15-5.25)	GHz				
Frequency	Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limit	Margin	Detector	Comment
(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBuV/m)	(dB)		
				Low Chann	el (802.11n20)/ 5180 MHz)			•	
3257.41	43.78	44.70	6.70	28.20	-9.80	33.98	74.00	-40.02	PK	Vertical
3257.41	41.07	44.70	6.70	28.20	-9.80	31.27	54.00	-22.73	AV	Vertical
3262.55	44.70	44.70	6.70	28.20	-9.80	34.90	74.00	-39.10	PK	Horizontal
3262.55	41.77	44.70	6.70	28.20	-9.80	31.97	54.00	-22.03	AV	Horizontal
3998.93	38.93	44.20	7.90	29.70	-6.60	32.33	74.00	-41.67	PK	Vertical
3998.93	36.08	44.20	7.90	29.70	-6.60	29.48	54.00	-24.52	AV	Vertical
3981.69	38.79	44.20	7.90	29.70	-6.60	32.19	74.00	-41.81	PK	Horizontal
3981.69	36.38	44.20	7.90	29.70	-6.60	29.78	54.00	-24.22	AV	Horizontal
7225.27	37.45	43.50	11.40	35.50	3.40	40.85	74.00	-33.15	PK	Vertical
7225.27	33.53	43.50	11.40	35.50	3.40	36.93	54.00	-17.07	AV	Vertical
7219.09	37.26	43.50	11.40	35.50	3.40	40.66	74.00	-33.34	PK	Horizontal
7219.09	33.88	43.50	11.40	35.50	3.40	37.28	54.00	-16.72	AV	Horizontal
10360.03	39.31	44.50	13.80	38.80	8.10	47.41	74.00	-26.59	PK	Vertical
10360.03	37.06	44.50	13.80	38.80	8.10	45.16	54.00	-8.84	AV	Vertical
10360.02	39.34	44.50	13.80	38.80	8.10	47.44	74.00	-26.56	PK	Horizontal
10360.02	36.82	44.50	13.80	38.80	8.10	44.92	54.00	-9.08	AV	Horizontal
11018.74	32.84	43.60	14.30	39.50	10.20	43.04	74.00	-30.96	PK	Vertical
11018.74	30.13	43.60	14.30	39.50	10.20	40.33	54.00	-13.67	AV	Vertical
11017.81	32.94	43.60	14.30	39.50	10.20	43.14	74.00	-30.86	PK	Horizontal
11017.81	29.86	43.60	14.30	39.50	10.20	40.06	54.00	-13.94	AV	Horizontal
13286.74	31.62	42.60	15.90	38.90	12.20	43.82	74.00	-30.18	PK	Vertical
13286.74	28.93	42.60	15.90	38.90	12.20	41.13	54.00	-12.87	AV	Vertical
13287.69	31.78	42.60	15.90	38.90	12.20	43.98	74.00	-30.02	PK	Horizontal
13287.69	29.38	42.60	15.90	38.90	12.20	41.58	54.00	-12.42	AV	Horizontal



				Mid Chann	el (802.11 n2	0/ 5200 MHz)			
3251.87	44.26	44.70	6.70	28.20	-9.80	34.46	74.00	-39.54	PK	Vertical
3251.87	41.36	44.70	6.70	28.20	-9.80	31.56	54.00	-22.44	AV	Vertical
3248.00	44.65	44.70	6.70	28.20	-9.80	34.85	74.00	-39.15	PK	Horizontal
3248.00	41.85	44.70	6.70	28.20	-9.80	32.05	54.00	-21.95	AV	Horizontal
3993.48	39.19	44.20	7.90	29.70	-6.60	32.59	74.00	-41.41	PK	Vertical
3993.48	36.73	44.20	7.90	29.70	-6.60	30.13	54.00	-23.87	AV	Vertical
3996.10	38.81	44.20	7.90	29.70	-6.60	32.21	74.00	-41.79	PK	Horizontal
3996.10	36.95	44.20	7.90	29.70	-6.60	30.35	54.00	-23.65	AV	Horizontal
7220.89	36.54	43.50	11.40	35.50	3.40	39.94	74.00	-34.06	PK	Vertical
7220.89	34.19	43.50	11.40	35.50	3.40	37.59	54.00	-16.41	AV	Vertical
7231.12	37.66	43.50	11.40	35.50	3.40	41.06	74.00	-32.94	PK	Horizontal
7231.12	33.73	43.50	11.40	35.50	3.40	37.13	54.00	-16.87	AV	Horizontal
10399.96	39.70	44.50	13.80	38.80	8.10	47.80	74.00	-26.20	PK	Vertical
10399.96	36.98	44.50	13.80	38.80	8.10	45.08	54.00	-8.92	AV	Vertical
10400.30	39.24	44.50	13.80	38.80	8.10	47.34	74.00	-26.66	PK	Horizontal
10400.30	35.94	44.50	13.80	38.80	8.10	44.04	54.00	-9.96	AV	Horizontal
11033.44	34.03	43.60	14.30	39.50	10.20	44.23	74.00	-29.77	PK	Vertical
11033.44	30.16	43.60	14.30	39.50	10.20	40.36	54.00	-13.64	AV	Vertical
11023.66	33.62	43.60	14.30	39.50	10.20	43.82	74.00	-30.18	PK	Horizontal
11023.66	30.90	43.60	14.30	39.50	10.20	41.10	54.00	-12.90	AV	Horizontal
13286.67	32.56	42.60	15.90	38.90	12.20	44.76	74.00	-29.24	PK	Vertical
13286.67	28.87	42.60	15.90	38.90	12.20	41.07	54.00	-12.93	AV	Vertical
13285.47	31.75	42.60	15.90	38.90	12.20	43.95	74.00	-30.05	PK	Horizontal
13285.47	29.70	42.60	15.90	38.90	12.20	41.90	54.00	-12.10	AV	Horizontal



				High Chanr	nel (802.11 n2	20/ 5240 MHz	<u>z</u>)			
3255.68	43.99	44.70	6.70	28.20	-9.80	34.19	74.00	-39.81	PK	Vertical
3255.68	41.71	44.70	6.70	28.20	-9.80	31.91	54.00	-22.09	AV	Vertical
3256.59	45.10	44.70	6.70	28.20	-9.80	35.30	74.00	-38.70	PK	Horizontal
3256.59	42.07	44.70	6.70	28.20	-9.80	32.27	54.00	-21.73	AV	Horizontal
3992.62	39.55	44.20	7.90	29.70	-6.60	32.95	74.00	-41.05	PK	Vertical
3992.62	35.93	44.20	7.90	29.70	-6.60	29.33	54.00	-24.67	AV	Vertical
3980.67	39.65	44.20	7.90	29.70	-6.60	33.05	74.00	-40.95	PK	Horizontal
3980.67	36.69	44.20	7.90	29.70	-6.60	30.09	54.00	-23.91	AV	Horizontal
7220.57	37.73	43.50	11.40	35.50	3.40	41.13	74.00	-32.87	PK	Vertical
7220.57	34.38	43.50	11.40	35.50	3.40	37.78	54.00	-16.22	AV	Vertical
7227.35	36.46	43.50	11.40	35.50	3.40	39.86	74.00	-34.14	PK	Horizontal
7227.35	34.63	43.50	11.40	35.50	3.40	38.03	54.00	-15.97	AV	Horizontal
10480.21	39.12	44.50	13.80	38.80	8.10	47.22	74.00	-26.78	PK	Vertical
10480.21	37.06	44.50	13.80	38.80	8.10	45.16	54.00	-8.84	AV	Vertical
10479.95	39.15	44.50	13.80	38.80	8.10	47.25	74.00	-26.75	PK	Horizontal
10479.95	36.37	44.50	13.80	38.80	8.10	44.47	54.00	-9.53	AV	Horizontal
11019.68	33.19	43.60	14.30	39.50	10.20	43.39	74.00	-30.61	PK	Vertical
11019.68	29.94	43.60	14.30	39.50	10.20	40.14	54.00	-13.86	AV	Vertical
11017.56	33.53	43.60	14.30	39.50	10.20	43.73	74.00	-30.27	PK	Horizontal
11017.56	30.73	43.60	14.30	39.50	10.20	40.93	54.00	-13.07	AV	Horizontal
13286.74	31.87	42.60	15.90	38.90	12.20	44.07	74.00	-29.93	PK	Vertical
13286.74	29.61	42.60	15.90	38.90	12.20	41.81	54.00	-12.19	AV	Vertical
13284.78	32.27	42.60	15.90	38.90	12.20	44.47	74.00	-29.53	PK	Horizontal
13284.78	29.92	42.60	15.90	38.90	12.20	42.12	54.00	-11.88	AV	Horizontal

- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Scan with 802.11a,802.11n (HT-20),802.11n (HT-40), the worst case is 802.11n (HT-20).
- 3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



Band II 5250-5350MHz

				Band	d II(5.25-5.35)) GHz				
Frequency	Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limit	Margin	Detector	Comment
(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBuV/m)	(dB)		
				Low Channe	el (802.11 n20)/ 5260 MHz)	ı			
3248.53	44.98	44.70	6.70	28.20	-9.80	35.18	74.00	-38.82	PK	Vertical
3248.53	41.79	44.70	6.70	28.20	-9.80	31.99	54.00	-22.01	AV	Vertical
3253.75	45.05	44.70	6.70	28.20	-9.80	35.25	74.00	-38.75	PK	Horizontal
3253.75	42.22	44.70	6.70	28.20	-9.80	32.42	54.00	-21.58	AV	Horizontal
3982.58	38.64	44.20	7.90	29.70	-6.60	32.04	74.00	-41.96	PK	Vertical
3982.58	35.82	44.20	7.90	29.70	-6.60	29.22	54.00	-24.78	AV	Vertical
3984.94	39.69	44.20	7.90	29.70	-6.60	33.09	74.00	-40.91	PK	Horizontal
3984.94	36.02	44.20	7.90	29.70	-6.60	29.42	54.00	-24.58	AV	Horizontal
7229.51	36.47	43.50	11.40	35.50	3.40	39.87	74.00	-34.13	PK	Vertical
7229.51	34.15	43.50	11.40	35.50	3.40	37.55	54.00	-16.45	AV	Vertical
7232.59	36.90	43.50	11.40	35.50	3.40	40.30	74.00	-33.70	PK	Horizontal
7232.59	34.62	43.50	11.40	35.50	3.40	38.02	54.00	-15.98	AV	Horizontal
10520.21	39.85	44.50	13.90	38.80	8.20	48.05	74.00	-25.95	PK	Vertical
10520.21	35.75	44.50	13.90	38.80	8.20	43.95	54.00	-10.05	AV	Vertical
10520.12	38.80	44.50	13.90	38.80	8.20	47.00	74.00	-27.00	PK	Horizontal
10520.12	35.78	44.50	13.90	38.80	8.20	43.98	54.00	-10.02	AV	Horizontal
11034.36	32.88	43.60	14.30	39.50	10.20	43.08	74.00	-30.92	PK	Vertical
11034.36	29.69	43.60	14.30	39.50	10.20	39.89	54.00	-14.11	AV	Vertical
11029.21	32.80	43.60	14.30	39.50	10.20	43.00	74.00	-31.00	PK	Horizontal
11029.21	30.02	43.60	14.30	39.50	10.20	40.22	54.00	-13.78	AV	Horizontal
13283.30	32.63	42.60	15.90	38.90	12.20	44.83	74.00	-29.17	PK	Vertical
13283.30	29.17	42.60	15.90	38.90	12.20	41.37	54.00	-12.63	AV	Vertical
13284.27	32.73	42.60	15.90	38.90	12.20	44.93	74.00	-29.07	PK	Horizontal
13284.27	28.63	42.60	15.90	38.90	12.20	40.83	54.00	-13.17	AV	Horizontal



3257.30													
3259.96 41.43 44.70 6.70 28.20 -9.80 31.63 54.00 -22.37 AV Vertical 3257.30 44.55 44.70 6.70 28.20 -9.80 34.75 74.00 -39.25 PK Horizonta 3257.30 41.15 44.70 6.70 28.20 -9.80 31.35 54.00 -22.65 AV Horizonta 3984.54 39.27 44.20 7.90 29.70 -6.60 32.67 74.00 -41.33 PK Vertical 3995.27 39.49 44.20 7.90 29.70 -6.60 32.89 74.00 -41.11 PK Horizonta 3995.27 37.05 44.20 7.90 29.70 -6.60 30.45 54.00 -23.55 AV Horizonta 7224.51 37.51 43.50 11.40 35.50 3.40 40.91 74.00 -33.99 PK Vertical 7220.16 37.62 43.50 11.40 35.50 </th <th colspan="13">Mid Channel (802.11 n20/ 5300 MHz)</th>	Mid Channel (802.11 n20/ 5300 MHz)												
3257.30 44.55 44.70 6.70 28.20 -9.80 34.75 74.00 -39.25 PK Horizonta 3257.30 41.15 44.70 6.70 28.20 -9.80 31.35 54.00 -22.65 AV Horizonta 3984.54 39.27 44.20 7.90 29.70 -6.60 32.67 74.00 -41.33 PK Vertical 3984.54 36.21 44.20 7.90 29.70 -6.60 32.89 74.00 -41.11 PK Horizonta 3995.27 39.49 44.20 7.90 29.70 -6.60 32.89 74.00 -41.11 PK Horizonta 3995.27 37.05 44.20 7.90 29.70 -6.60 30.45 54.00 -23.55 AV Horizonta 7224.51 37.51 43.50 11.40 35.50 3.40 40.91 74.00 -32.98 PK Vertical 7220.16 37.62 43.50 11.40 35.50<	3259.96	43.93	44.70	6.70	28.20	-9.80	34.13	74.00	-39.87	PK	Vertical		
3257.30 41.15 44.70 6.70 28.20 -9.80 31.35 54.00 -22.65 AV Horizonta 3984.54 39.27 44.20 7.90 29.70 -6.60 32.67 74.00 -41.33 PK Vertical 3984.54 36.21 44.20 7.90 29.70 -6.60 29.61 54.00 -24.39 AV Vertical 3995.27 39.49 44.20 7.90 29.70 -6.60 32.89 74.00 -41.11 PK Horizonta 3995.27 37.05 44.20 7.90 29.70 -6.60 30.45 54.00 -23.55 AV Horizonta 7224.51 37.51 43.50 11.40 35.50 3.40 40.91 74.00 -33.09 PK Vertical 7220.16 37.62 43.50 11.40 35.50 3.40 41.02 74.00 -32.98 PK Horizonta 7220.16 34.65 43.50 11.40 35.50 </td <td>3259.96</td> <td>41.43</td> <td>44.70</td> <td>6.70</td> <td>28.20</td> <td>-9.80</td> <td>31.63</td> <td>54.00</td> <td>-22.37</td> <td>AV</td> <td>Vertical</td>	3259.96	41.43	44.70	6.70	28.20	-9.80	31.63	54.00	-22.37	AV	Vertical		
3984.54 39.27 44.20 7.90 29.70 -6.60 32.67 74.00 -41.33 PK Vertical 3984.54 36.21 44.20 7.90 29.70 -6.60 29.61 54.00 -24.39 AV Vertical 3995.27 39.49 44.20 7.90 29.70 -6.60 30.89 74.00 -41.11 PK Horizonta 3995.27 37.05 44.20 7.90 29.70 -6.60 30.45 54.00 -23.55 AV Horizonta 7224.51 37.51 43.50 11.40 35.50 3.40 40.91 74.00 -33.09 PK Vertical 7220.16 37.62 43.50 11.40 35.50 3.40 41.02 74.00 -32.98 PK Horizonta 7220.16 34.65 43.50 11.40 35.50 3.40 41.02 74.00 -32.98 PK Horizonta 10600.31 39.65 44.50 13.80 38.80<	3257.30	44.55	44.70	6.70	28.20	-9.80	34.75	74.00	-39.25	PK	Horizontal		
3984.54 36.21 44.20 7.90 29.70 -6.60 29.61 54.00 -24.39 AV Vertical 3995.27 39.49 44.20 7.90 29.70 -6.60 32.89 74.00 -41.11 PK Horizonta 3995.27 37.05 44.20 7.90 29.70 -6.60 30.45 54.00 -23.55 AV Horizonta 7224.51 37.51 43.50 11.40 35.50 3.40 40.91 74.00 -33.09 PK Vertical 7220.16 37.62 43.50 11.40 35.50 3.40 41.02 74.00 -32.98 PK Horizonta 7220.16 37.62 43.50 11.40 35.50 3.40 41.02 74.00 -32.98 PK Horizonta 7220.16 34.65 43.50 11.40 35.50 3.40 41.02 74.00 -32.98 PK Horizonta 10600.31 39.65 44.50 13.80 38.80	3257.30	41.15	44.70	6.70	28.20	-9.80	31.35	54.00	-22.65	AV	Horizontal		
3995.27 39.49 44.20 7.90 29.70 -6.60 32.89 74.00 -41.11 PK Horizonta 3995.27 37.05 44.20 7.90 29.70 -6.60 30.45 54.00 -23.55 AV Horizonta 7224.51 37.51 43.50 11.40 35.50 3.40 40.91 74.00 -33.09 PK Vertical 7224.51 34.41 43.50 11.40 35.50 3.40 37.81 54.00 -16.19 AV Vertical 7220.16 37.62 43.50 11.40 35.50 3.40 41.02 74.00 -32.98 PK Horizonta 7220.16 34.65 43.50 11.40 35.50 3.40 38.05 54.00 -15.95 AV Horizonta 10600.31 39.65 44.50 13.80 38.80 8.10 47.75 74.00 -26.25 PK Vertical 10600.42 39.96 44.50 13.80 38.80	3984.54	39.27	44.20	7.90	29.70	-6.60	32.67	74.00	-41.33	PK	Vertical		
3995.27 37.05 44.20 7.90 29.70 -6.60 30.45 54.00 -23.55 AV Horizonta 7224.51 37.51 43.50 11.40 35.50 3.40 40.91 74.00 -33.09 PK Vertical 7224.51 34.41 43.50 11.40 35.50 3.40 37.81 54.00 -16.19 AV Vertical 7220.16 37.62 43.50 11.40 35.50 3.40 41.02 74.00 -32.98 PK Horizonta 7220.16 34.65 43.50 11.40 35.50 3.40 38.05 54.00 -32.98 PK Horizonta 10600.31 39.65 44.50 13.80 38.80 8.10 47.75 74.00 -26.25 PK Vertical 10600.42 39.96 44.50 13.80 38.80 8.10 48.06 74.00 -25.94 PK Horizonta 11017.53 33.45 43.60 14.30 39.5	3984.54	36.21	44.20	7.90	29.70	-6.60	29.61	54.00	-24.39	AV	Vertical		
7224.51 37.51 43.50 11.40 35.50 3.40 40.91 74.00 -33.09 PK Vertical 7224.51 34.41 43.50 11.40 35.50 3.40 37.81 54.00 -16.19 AV Vertical 7220.16 37.62 43.50 11.40 35.50 3.40 41.02 74.00 -32.98 PK Horizonta 7220.16 34.65 43.50 11.40 35.50 3.40 41.02 74.00 -32.98 PK Horizonta 7220.16 34.65 43.50 11.40 35.50 3.40 38.05 54.00 -15.95 AV Horizonta 10600.31 39.65 44.50 13.80 38.80 8.10 47.75 74.00 -26.25 PK Vertical 10600.42 39.96 44.50 13.80 38.80 8.10 48.06 74.00 -25.94 PK Horizonta 10107.53 33.45 43.60 14.30 39.5	3995.27	39.49	44.20	7.90	29.70	-6.60	32.89	74.00	-41.11	PK	Horizontal		
7224.51 34.41 43.50 11.40 35.50 3.40 37.81 54.00 -16.19 AV Vertical 7220.16 37.62 43.50 11.40 35.50 3.40 41.02 74.00 -32.98 PK Horizonta 7220.16 34.65 43.50 11.40 35.50 3.40 38.05 54.00 -15.95 AV Horizonta 10600.31 39.65 44.50 13.80 38.80 8.10 47.75 74.00 -26.25 PK Vertical 10600.31 35.92 44.50 13.80 38.80 8.10 44.02 54.00 -9.98 AV Vertical 10600.42 39.96 44.50 13.80 38.80 8.10 48.06 74.00 -25.94 PK Horizonta 10600.42 36.93 44.50 13.80 38.80 8.10 45.03 54.00 -8.97 AV Horizonta 11017.53 33.45 43.60 14.30 39.5	3995.27	37.05	44.20	7.90	29.70	-6.60	30.45	54.00	-23.55	AV	Horizontal		
7220.16 37.62 43.50 11.40 35.50 3.40 41.02 74.00 -32.98 PK Horizonta 7220.16 34.65 43.50 11.40 35.50 3.40 38.05 54.00 -15.95 AV Horizonta 10600.31 39.65 44.50 13.80 38.80 8.10 47.75 74.00 -26.25 PK Vertical 10600.31 35.92 44.50 13.80 38.80 8.10 44.02 54.00 -9.98 AV Vertical 10600.42 39.96 44.50 13.80 38.80 8.10 48.06 74.00 -25.94 PK Horizonta 10600.42 36.93 44.50 13.80 38.80 8.10 45.03 54.00 -8.97 AV Horizonta 11017.53 33.45 43.60 14.30 39.50 10.20 43.65 74.00 -30.35 PK Vertical 11034.95 33.89 43.60 14.30 39	7224.51	37.51	43.50	11.40	35.50	3.40	40.91	74.00	-33.09	PK	Vertical		
7220.16 34.65 43.50 11.40 35.50 3.40 38.05 54.00 -15.95 AV Horizonta 10600.31 39.65 44.50 13.80 38.80 8.10 47.75 74.00 -26.25 PK Vertical 10600.31 35.92 44.50 13.80 38.80 8.10 44.02 54.00 -9.98 AV Vertical 10600.42 39.96 44.50 13.80 38.80 8.10 48.06 74.00 -25.94 PK Horizonta 10600.42 36.93 44.50 13.80 38.80 8.10 45.03 54.00 -8.97 AV Horizonta 11017.53 33.45 43.60 14.30 39.50 10.20 43.65 74.00 -30.35 PK Vertical 11034.95 33.89 43.60 14.30 39.50 10.20 40.26 54.00 -13.74 AV Vertical 11034.95 30.03 43.60 14.30 3	7224.51	34.41	43.50	11.40	35.50	3.40	37.81	54.00	-16.19	AV	Vertical		
10600.31 39.65 44.50 13.80 38.80 8.10 47.75 74.00 -26.25 PK Vertical 10600.31 35.92 44.50 13.80 38.80 8.10 44.02 54.00 -9.98 AV Vertical 10600.42 39.96 44.50 13.80 38.80 8.10 48.06 74.00 -25.94 PK Horizonta 10600.42 36.93 44.50 13.80 38.80 8.10 45.03 54.00 -8.97 AV Horizonta 11017.53 33.45 43.60 14.30 39.50 10.20 43.65 74.00 -30.35 PK Vertical 11034.95 33.89 43.60 14.30 39.50 10.20 40.26 54.00 -13.74 AV Vertical 11034.95 30.03 43.60 14.30 39.50 10.20 40.23 54.00 -13.77 AV Horizonta 13292.38 32.45 42.60 15.90 <td< td=""><td>7220.16</td><td>37.62</td><td>43.50</td><td>11.40</td><td>35.50</td><td>3.40</td><td>41.02</td><td>74.00</td><td>-32.98</td><td>PK</td><td>Horizontal</td></td<>	7220.16	37.62	43.50	11.40	35.50	3.40	41.02	74.00	-32.98	PK	Horizontal		
10600.31 35.92 44.50 13.80 38.80 8.10 44.02 54.00 -9.98 AV Vertical 10600.42 39.96 44.50 13.80 38.80 8.10 48.06 74.00 -25.94 PK Horizonta 10600.42 36.93 44.50 13.80 38.80 8.10 45.03 54.00 -8.97 AV Horizonta 11017.53 33.45 43.60 14.30 39.50 10.20 43.65 74.00 -30.35 PK Vertical 11034.95 33.89 43.60 14.30 39.50 10.20 40.26 54.00 -13.74 AV Vertical 11034.95 30.03 43.60 14.30 39.50 10.20 40.23 54.00 -13.77 AV Horizonta 13292.38 32.45 42.60 15.90 38.90 12.20 44.65 74.00 -29.35 PK Vertical 13292.38 29.79 42.60 15.90 <t< td=""><td>7220.16</td><td>34.65</td><td>43.50</td><td>11.40</td><td>35.50</td><td>3.40</td><td>38.05</td><td>54.00</td><td>-15.95</td><td>AV</td><td>Horizontal</td></t<>	7220.16	34.65	43.50	11.40	35.50	3.40	38.05	54.00	-15.95	AV	Horizontal		
10600.42 39.96 44.50 13.80 38.80 8.10 48.06 74.00 -25.94 PK Horizonta 10600.42 36.93 44.50 13.80 38.80 8.10 45.03 54.00 -8.97 AV Horizonta 11017.53 33.45 43.60 14.30 39.50 10.20 43.65 74.00 -30.35 PK Vertical 11017.53 30.06 43.60 14.30 39.50 10.20 40.26 54.00 -13.74 AV Vertical 11034.95 33.89 43.60 14.30 39.50 10.20 44.09 74.00 -29.91 PK Horizonta 11034.95 30.03 43.60 14.30 39.50 10.20 40.23 54.00 -13.77 AV Horizonta 13292.38 32.45 42.60 15.90 38.90 12.20 44.65 74.00 -29.35 PK Vertical 13292.38 29.79 42.60 15.90	10600.31	39.65	44.50	13.80	38.80	8.10	47.75	74.00	-26.25	PK	Vertical		
10600.42 36.93 44.50 13.80 38.80 8.10 45.03 54.00 -8.97 AV Horizonta 11017.53 33.45 43.60 14.30 39.50 10.20 43.65 74.00 -30.35 PK Vertical 11017.53 30.06 43.60 14.30 39.50 10.20 40.26 54.00 -13.74 AV Vertical 11034.95 33.89 43.60 14.30 39.50 10.20 44.09 74.00 -29.91 PK Horizonta 11034.95 30.03 43.60 14.30 39.50 10.20 40.23 54.00 -13.77 AV Horizonta 13292.38 32.45 42.60 15.90 38.90 12.20 44.65 74.00 -29.35 PK Vertical 13292.38 29.79 42.60 15.90 38.90 12.20 41.99 54.00 -12.01 AV Vertical	10600.31	35.92	44.50	13.80	38.80	8.10	44.02	54.00	-9.98	AV	Vertical		
11017.53 33.45 43.60 14.30 39.50 10.20 43.65 74.00 -30.35 PK Vertical 11017.53 30.06 43.60 14.30 39.50 10.20 40.26 54.00 -13.74 AV Vertical 11034.95 33.89 43.60 14.30 39.50 10.20 44.09 74.00 -29.91 PK Horizonta 11034.95 30.03 43.60 14.30 39.50 10.20 40.23 54.00 -13.77 AV Horizonta 13292.38 32.45 42.60 15.90 38.90 12.20 44.65 74.00 -29.35 PK Vertical 13292.38 29.79 42.60 15.90 38.90 12.20 41.99 54.00 -12.01 AV Vertical	10600.42	39.96	44.50	13.80	38.80	8.10	48.06	74.00	-25.94	PK	Horizontal		
11017.53 30.06 43.60 14.30 39.50 10.20 40.26 54.00 -13.74 AV Vertical 11034.95 33.89 43.60 14.30 39.50 10.20 44.09 74.00 -29.91 PK Horizonta 11034.95 30.03 43.60 14.30 39.50 10.20 40.23 54.00 -13.77 AV Horizonta 13292.38 32.45 42.60 15.90 38.90 12.20 44.65 74.00 -29.35 PK Vertical 13292.38 29.79 42.60 15.90 38.90 12.20 41.99 54.00 -12.01 AV Vertical	10600.42	36.93	44.50	13.80	38.80	8.10	45.03	54.00	-8.97	AV	Horizontal		
11034.95 33.89 43.60 14.30 39.50 10.20 44.09 74.00 -29.91 PK Horizonta 11034.95 30.03 43.60 14.30 39.50 10.20 40.23 54.00 -13.77 AV Horizonta 13292.38 32.45 42.60 15.90 38.90 12.20 44.65 74.00 -29.35 PK Vertical 13292.38 29.79 42.60 15.90 38.90 12.20 41.99 54.00 -12.01 AV Vertical	11017.53	33.45	43.60	14.30	39.50	10.20	43.65	74.00	-30.35	PK	Vertical		
11034.95 30.03 43.60 14.30 39.50 10.20 40.23 54.00 -13.77 AV Horizonta 13292.38 32.45 42.60 15.90 38.90 12.20 44.65 74.00 -29.35 PK Vertical 13292.38 29.79 42.60 15.90 38.90 12.20 41.99 54.00 -12.01 AV Vertical	11017.53	30.06	43.60	14.30	39.50	10.20	40.26	54.00	-13.74	AV	Vertical		
13292.38 32.45 42.60 15.90 38.90 12.20 44.65 74.00 -29.35 PK Vertical 13292.38 29.79 42.60 15.90 38.90 12.20 41.99 54.00 -12.01 AV Vertical	11034.95	33.89	43.60	14.30	39.50	10.20	44.09	74.00	-29.91	PK	Horizontal		
13292.38 29.79 42.60 15.90 38.90 12.20 41.99 54.00 -12.01 AV Vertical	11034.95	30.03	43.60	14.30	39.50	10.20	40.23	54.00	-13.77	AV	Horizontal		
	13292.38	32.45	42.60	15.90	38.90	12.20	44.65	74.00	-29.35	PK	Vertical		
13288.30 32.58 42.60 15.90 38.90 12.20 44.78 74.00 -29.22 PK Horizonta	13292.38	29.79	42.60	15.90	38.90	12.20	41.99	54.00	-12.01	AV	Vertical		
	13288.30	32.58	42.60	15.90	38.90	12.20	44.78	74.00	-29.22	PK	Horizontal		



				High Chani	nel (802.11 n	20/ 5320 MH	z)			
3247.15	43.87	44.70	6.70	28.20	-9.80	34.07	74.00	-39.93	PK	Vertical
3247.15	41.05	44.70	6.70	28.20	-9.80	31.25	54.00	-22.75	AV	Vertical
3256.62	44.78	44.70	6.70	28.20	-9.80	34.98	74.00	-39.02	PK	Horizontal
3256.62	41.72	44.70	6.70	28.20	-9.80	31.92	54.00	-22.08	AV	Horizontal
3998.19	39.48	44.20	7.90	29.70	-6.60	32.88	74.00	-41.12	PK	Vertical
3998.19	37.14	44.20	7.90	29.70	-6.60	30.54	54.00	-23.46	AV	Vertical
3996.90	39.57	44.20	7.90	29.70	-6.60	32.97	74.00	-41.03	PK	Horizontal
3996.90	36.10	44.20	7.90	29.70	-6.60	29.50	54.00	-24.50	AV	Horizontal
7223.15	37.39	43.50	11.40	35.50	3.40	40.79	74.00	-33.21	PK	Vertical
7223.15	34.66	43.50	11.40	35.50	3.40	38.06	54.00	-15.94	AV	Vertical
7223.17	37.05	43.50	11.40	35.50	3.40	40.45	74.00	-33.55	PK	Horizontal
7223.17	34.47	43.50	11.40	35.50	3.40	37.87	54.00	-16.13	AV	Horizontal
10640.13	39.18	44.50	13.80	38.80	8.10	47.28	74.00	-26.72	PK	Vertical
10640.13	36.95	44.50	13.80	38.80	8.10	45.05	54.00	-8.95	AV	Vertical
10640.36	40.00	44.50	13.80	38.80	8.10	48.10	74.00	-25.90	PK	Horizontal
10640.36	36.34	44.50	13.80	38.80	8.10	44.44	54.00	-9.56	AV	Horizontal
11029.81	33.13	43.60	14.30	39.50	10.20	43.33	74.00	-30.67	PK	Vertical
11029.81	31.10	43.60	14.30	39.50	10.20	41.30	54.00	-12.70	AV	Vertical
11019.23	33.78	43.60	14.30	39.50	10.20	43.98	74.00	-30.02	PK	Horizontal
11019.23	30.46	43.60	14.30	39.50	10.20	40.66	54.00	-13.34	AV	Horizontal
13297.42	32.44	42.70	18.00	37.10	12.40	44.84	74.00	-29.16	PK	Vertical
13297.42	29.90	42.70	18.00	37.10	12.40	42.30	54.00	-11.70	AV	Vertical
13291.98	32.53	42.70	18.00	37.10	12.40	44.93	74.00	-29.07	PK	Horizontal
13291.98	28.62	42.70	18.00	37.10	12.40	41.02	54.00	-12.98	AV	Horizontal

- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Scan with 802.11a,802.11n (HT-20),802.11n (HT-40), the worst case is 802.11n (HT-20).
- 3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



Band III 5470-5725MHz

	Band III(5.47-5.725) GHz												
Frequency	Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limit	Margin	Detector	Comment			
(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBuV/m)	(dB)					
				Low Channe	l (802.11 n20	/ 5500 MHz)							
3249.06	44.16	44.70	6.70	28.20	-9.80	34.36	74.00	-39.64	PK	Vertical			
3249.06	41.24	44.70	6.70	28.20	-9.80	31.44	54.00	-22.56	AV	Vertical			
3254.92	43.78	44.70	6.70	28.20	-9.80	33.98	74.00	-40.02	PK	Horizontal			
3254.92	42.23	44.70	6.70	28.20	-9.80	32.43	54.00	-21.57	AV	Horizontal			
3984.43	39.74	44.20	7.90	29.70	-6.60	33.14	74.00	-40.86	PK	Vertical			
3984.43	35.90	44.20	7.90	29.70	-6.60	29.30	54.00	-24.70	AV	Vertical			
3998.66	39.69	44.20	7.90	29.70	-6.60	33.09	74.00	-40.91	PK	Horizontal			
3998.66	36.50	44.20	7.90	29.70	-6.60	29.90	54.00	-24.10	AV	Horizontal			
7233.95	36.82	43.50	11.40	35.50	3.40	40.22	74.00	-33.78	PK	Vertical			
7233.95	34.39	43.50	11.40	35.50	3.40	37.79	54.00	-16.21	AV	Vertical			
7230.99	37.72	43.50	11.40	35.50	3.40	41.12	74.00	-32.88	PK	Horizontal			
7230.99	34.12	43.50	11.40	35.50	3.40	37.52	54.00	-16.48	AV	Horizontal			
10348.54	39.17	44.50	13.80	38.80	8.10	47.27	74.00	-26.73	PK	Vertical			
10348.54	35.90	44.50	13.80	38.80	8.10	44.00	54.00	-10.00	AV	Vertical			
10356.51	39.12	44.50	13.80	38.80	8.10	47.22	74.00	-26.78	PK	Horizontal			
10356.51	36.38	44.50	13.80	38.80	8.10	44.48	54.00	-9.52	AV	Horizontal			
11000.19	33.87	43.60	14.30	39.50	10.20	44.07	74.00	-29.93	PK	Vertical			
11000.19	30.20	43.60	14.30	39.50	10.20	40.40	54.00	-13.60	AV	Vertical			
11000.39	32.88	43.60	14.30	39.50	10.20	43.08	74.00	-30.92	PK	Horizontal			
11000.39	30.75	43.60	14.30	39.50	10.20	40.95	54.00	-13.05	AV	Horizontal			
13280.11	33.01	42.60	15.90	38.90	12.20	45.21	74.00	-28.79	PK	Vertical			
13280.11	28.87	42.60	15.90	38.90	12.20	41.07	54.00	-12.93	AV	Vertical			
13282.85	31.67	42.60	15.90	38.90	12.20	43.87	74.00	-30.13	PK	Horizontal			
13282.85	28.87	42.60	15.90	38.90	12.20	41.07	54.00	-12.93	AV	Horizontal			



Mid Channel (802.11 n20/ 5580 MHz)												
3254.15	45.15	44.70	6.70	28.20	-9.80	35.35	74.00	-38.65	PK	Vertical		
3254.15	41.27	44.70	6.70	28.20	-9.80	31.47	54.00	-22.53	AV	Vertical		
3261.12	44.30	44.70	6.70	28.20	-9.80	34.50	74.00	-39.50	PK	Horizontal		
3261.12	41.50	44.70	6.70	28.20	-9.80	31.70	54.00	-22.30	AV	Horizontal		
3981.12	38.94	44.20	7.90	29.70	-6.60	32.34	74.00	-41.66	PK	Vertical		
3981.12	37.08	44.20	7.90	29.70	-6.60	30.48	54.00	-23.52	AV	Vertical		
3996.22	39.75	44.20	7.90	29.70	-6.60	33.15	74.00	-40.85	PK	Horizontal		
3996.22	36.02	44.20	7.90	29.70	-6.60	29.42	54.00	-24.58	AV	Horizontal		
7218.83	37.87	43.50	11.40	35.50	3.40	41.27	74.00	-32.73	PK	Vertical		
7218.83	33.78	43.50	11.40	35.50	3.40	37.18	54.00	-16.82	AV	Vertical		
7229.79	36.93	43.50	11.40	35.50	3.40	40.33	74.00	-33.67	PK	Horizontal		
7229.79	34.90	43.50	11.40	35.50	3.40	38.30	54.00	-15.70	AV	Horizontal		
10400.31	39.42	44.50	13.80	38.80	8.10	47.52	74.00	-26.48	PK	Vertical		
10400.31	36.22	44.50	13.80	38.80	8.10	44.32	54.00	-9.68	AV	Vertical		
10389.06	39.50	44.50	13.80	38.80	8.10	47.60	74.00	-26.40	PK	Horizontal		
10389.06	37.14	44.50	13.80	38.80	8.10	45.24	54.00	-8.76	AV	Horizontal		
11160.33	32.88	43.60	14.30	39.50	10.20	43.08	74.00	-30.92	PK	Vertical		
11160.33	30.92	43.60	14.30	39.50	10.20	41.12	54.00	-12.88	AV	Vertical		
11160.29	32.88	43.60	14.30	39.50	10.20	43.08	74.00	-30.92	PK	Horizontal		
11160.29	31.02	43.60	14.30	39.50	10.20	41.22	54.00	-12.78	AV	Horizontal		
13292.61	32.08	42.60	15.90	38.90	12.20	44.28	74.00	-29.72	PK	Vertical		
13292.61	29.10	42.60	15.90	38.90	12.20	41.30	54.00	-12.70	AV	Vertical		
13287.80	32.29	42.60	15.90	38.90	12.20	44.49	74.00	-29.51	PK	Horizontal		
13287.80	28.56	42.60	15.90	38.90	12.20	40.76	54.00	-13.24	AV	Horizontal		



				High Channe	el (802.11 n2	0/ 5700 MHz))			
3251.02	44.87	44.70	6.70	28.20	-9.80	35.07	74.00	-38.93	PK	Vertical
3251.02	42.12	44.70	6.70	28.20	-9.80	32.32	54.00	-21.68	AV	Vertical
3255.98	43.82	44.70	6.70	28.20	-9.80	34.02	74.00	-39.98	PK	Horizontal
3255.98	42.07	44.70	6.70	28.20	-9.80	32.27	54.00	-21.73	AV	Horizontal
3995.57	39.42	44.20	7.90	29.70	-6.60	32.82	74.00	-41.18	PK	Vertical
3995.57	36.99	44.20	7.90	29.70	-6.60	30.39	54.00	-23.61	AV	Vertical
3999.97	39.08	44.20	7.90	29.70	-6.60	32.48	74.00	-41.52	PK	Horizontal
3999.97	36.16	44.20	7.90	29.70	-6.60	29.56	54.00	-24.44	AV	Horizontal
7235.26	36.75	43.50	11.40	35.50	3.40	40.15	74.00	-33.85	PK	Vertical
7235.26	34.34	43.50	11.40	35.50	3.40	37.74	54.00	-16.26	AV	Vertical
7227.09	37.72	43.50	11.40	35.50	3.40	41.12	74.00	-32.88	PK	Horizontal
7227.09	34.88	43.50	11.40	35.50	3.40	38.28	54.00	-15.72	AV	Horizontal
10471.88	39.16	44.50	13.80	38.80	8.10	47.26	74.00	-26.74	PK	Vertical
10471.88	36.95	44.50	13.80	38.80	8.10	45.05	54.00	-8.95	AV	Vertical
10468.45	39.22	44.50	13.80	38.80	8.10	47.32	74.00	-26.68	PK	Horizontal
10468.45	36.82	44.50	13.80	38.80	8.10	44.92	54.00	-9.08	AV	Horizontal
11400.38	33.42	43.60	14.30	39.50	10.20	43.62	74.00	-30.38	PK	Vertical
11400.38	31.02	43.60	14.30	39.50	10.20	41.22	54.00	-12.78	AV	Vertical
11400.17	32.88	43.60	14.30	39.50	10.20	43.08	74.00	-30.92	PK	Horizontal
11400.17	29.89	43.60	14.30	39.50	10.20	40.09	54.00	-13.91	AV	Horizontal
13298.67	31.59	42.60	15.90	38.90	12.20	43.79	74.00	-30.21	PK	Vertical
13298.67	29.09	42.60	15.90	38.90	12.20	41.29	54.00	-12.71	AV	Vertical
13294.92	32.50	42.60	15.90	38.90	12.20	44.70	74.00	-29.30	PK	Horizontal
13294.92	28.91	42.60	15.90	38.90	12.20	41.11	54.00	-12.89	AV	Horizontal

- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Scan with 802.11a,802.11n (HT-20),802.11n (HT-40), the worst case is 802.11n (HT-20).
- 3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



Band IV(5.725-5.850) GHz

Band IV(5.725-5.850) GHZ Band IV(5.725-5.85) GHz										
Frequency (MHz)	Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	tor Level Lir	Limit	Margin	Detector	Comment
	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBuV/m)	(dB)		
Low Channel (802.11 a/ 5745 MHz)										
3264.39	44.79	44.70	6.70	28.20	-9.80	34.99	74.00	-39.01	PK	Vertical
3264.39	41.14	44.70	6.70	28.20	-9.80	31.34	54.00	-22.66	AV	Vertical
3254.66	44.52	44.70	6.70	28.20	-9.80	34.72	74.00	-39.28	PK	Horizontal
3254.66	41.48	44.70	6.70	28.20	-9.80	31.68	54.00	-22.32	AV	Horizontal
3983.16	39.16	44.20	7.90	29.70	-6.60	32.56	74.00	-41.44	PK	Vertical
3983.16	36.46	44.20	7.90	29.70	-6.60	29.86	54.00	-24.14	AV	Vertical
3998.31	38.83	44.20	7.90	29.70	-6.60	32.23	74.00	-41.77	PK	Horizontal
3998.31	36.07	44.20	7.90	29.70	-6.60	29.47	54.00	-24.53	AV	Horizontal
7225.86	37.00	43.50	11.40	35.50	3.40	40.40	74.00	-33.60	PK	Vertical
7225.86	33.68	43.50	11.40	35.50	3.40	37.08	54.00	-16.92	AV	Vertical
7230.14	36.58	43.50	11.40	35.50	3.40	39.98	74.00	-34.02	PK	Horizontal
7230.14	34.87	43.50	11.40	35.50	3.40	38.27	54.00	-15.73	AV	Horizontal
10510.09	39.61	44.50	13.90	38.80	8.20	47.81	74.00	-26.19	PK	Vertical
10510.09	36.24	44.50	13.90	38.80	8.20	44.44	54.00	-9.56	AV	Vertical
10518.63	39.96	44.50	13.90	38.80	8.20	48.16	74.00	-25.84	PK	Horizontal
10518.63	36.47	44.50	13.90	38.80	8.20	44.67	54.00	-9.33	AV	Horizontal
11490.21	33.10	43.60	14.30	39.50	10.20	43.30	74.00	-30.70	PK	Vertical
11490.21	30.35	43.60	14.30	39.50	10.20	40.55	54.00	-13.45	AV	Vertical
11490.30	33.24	43.60	14.30	39.50	10.20	43.44	74.00	-30.56	PK	Horizontal
11490.30	29.83	43.60	14.30	39.50	10.20	40.03	54.00	-13.97	AV	Horizontal
13287.38	32.15	42.60	15.90	38.90	12.20	44.35	74.00	-29.65	PK	Vertical
13287.38	28.56	42.60	15.90	38.90	12.20	40.76	54.00	-13.24	AV	Vertical
13295.75	32.64	42.60	15.90	38.90	12.20	44.84	74.00	-29.16	PK	Horizontal
13295.75	29.16	42.60	15.90	38.90	12.20	41.36	54.00	-12.64	AV	Horizontal



Mid Channel (802.11 a/ 5785 MHz)										
3259.33	44.47	44.70	6.70	28.20	-9.80	34.67	74.00	-39.33	PK	Vertical
3259.33	41.40	44.70	6.70	28.20	-9.80	31.60	54.00	-22.40	AV	Vertical
3249.68	45.06	44.70	6.70	28.20	-9.80	35.26	74.00	-38.74	PK	Horizontal
3249.68	42.23	44.70	6.70	28.20	-9.80	32.43	54.00	-21.57	AV	Horizontal
3990.18	39.90	44.20	7.90	29.70	-6.60	33.30	74.00	-40.70	PK	Vertical
3990.18	36.75	44.20	7.90	29.70	-6.60	30.15	54.00	-23.85	AV	Vertical
3990.67	38.92	44.20	7.90	29.70	-6.60	32.32	74.00	-41.68	PK	Horizontal
3990.67	36.13	44.20	7.90	29.70	-6.60	29.53	54.00	-24.47	AV	Horizontal
7236.17	37.56	43.50	11.40	35.50	3.40	40.96	74.00	-33.04	PK	Vertical
7236.17	33.58	43.50	11.40	35.50	3.40	36.98	54.00	-17.02	AV	Vertical
7227.25	37.39	43.50	11.40	35.50	3.40	40.79	74.00	-33.21	PK	Horizontal
7227.25	34.21	43.50	11.40	35.50	3.40	37.61	54.00	-16.39	AV	Horizontal
10584.55	40.00	44.50	13.80	38.80	8.10	48.10	74.00	-25.90	PK	Vertical
10584.55	37.12	44.50	13.80	38.80	8.10	45.22	54.00	-8.78	AV	Vertical
10586.23	39.56	44.50	13.80	38.80	8.10	47.66	74.00	-26.34	PK	Horizontal
10586.23	36.23	44.50	13.80	38.80	8.10	44.33	54.00	-9.67	AV	Horizontal
11570.36	33.97	43.60	14.30	39.50	10.20	44.17	74.00	-29.83	PK	Vertical
11570.36	30.06	43.60	14.30	39.50	10.20	40.26	54.00	-13.74	AV	Vertical
11570.38	32.93	43.60	14.30	39.50	10.20	43.13	74.00	-30.87	PK	Horizontal
11570.38	30.97	43.60	14.30	39.50	10.20	41.17	54.00	-12.83	AV	Horizontal
13280.43	32.19	42.60	15.90	38.90	12.20	44.39	74.00	-29.61	PK	Vertical
13280.43	28.84	42.60	15.90	38.90	12.20	41.04	54.00	-12.96	AV	Vertical
13290.78	32.15	42.60	15.90	38.90	12.20	44.35	74.00	-29.65	PK	Horizontal
13290.78	28.61	42.60	15.90	38.90	12.20	40.81	54.00	-13.19	AV	Horizontal



High Channel (802.11 a/ 5825 MHz)										
3252.42	45.11	44.70	6.70	28.20	-9.80	35.31	74.00	-38.69	PK	Vertical
3252.42	41.19	44.70	6.70	28.20	-9.80	31.39	54.00	-22.61	AV	Vertical
3253.81	45.15	44.70	6.70	28.20	-9.80	35.35	74.00	-38.65	PK	Horizontal
3253.81	40.76	44.70	6.70	28.20	-9.80	30.96	54.00	-23.04	AV	Horizontal
3999.01	38.70	44.20	7.90	29.70	-6.60	32.10	74.00	-41.90	PK	Vertical
3999.01	35.72	44.20	7.90	29.70	-6.60	29.12	54.00	-24.88	AV	Vertical
3982.46	39.35	44.20	7.90	29.70	-6.60	32.75	74.00	-41.25	PK	Horizontal
3982.46	36.21	44.20	7.90	29.70	-6.60	29.61	54.00	-24.39	AV	Horizontal
7218.89	36.58	43.50	11.40	35.50	3.40	39.98	74.00	-34.02	PK	Vertical
7218.89	34.00	43.50	11.40	35.50	3.40	37.40	54.00	-16.60	AV	Vertical
7229.75	36.56	43.50	11.40	35.50	3.40	39.96	74.00	-34.04	PK	Horizontal
7229.75	34.79	43.50	11.40	35.50	3.40	38.19	54.00	-15.81	AV	Horizontal
10639.33	38.80	44.50	13.80	38.80	8.10	46.90	74.00	-27.10	PK	Vertical
10639.33	37.07	44.50	13.80	38.80	8.10	45.17	54.00	-8.83	AV	Vertical
10640.22	38.95	44.50	13.80	38.80	8.10	47.05	74.00	-26.95	PK	Horizontal
10640.22	36.16	44.50	13.80	38.80	8.10	44.26	54.00	-9.74	AV	Horizontal
11650.40	34.12	43.60	14.30	39.50	10.20	44.32	74.00	-29.68	PK	Vertical
11650.40	30.04	43.60	14.30	39.50	10.20	40.24	54.00	-13.76	AV	Vertical
11650.09	33.95	43.60	14.30	39.50	10.20	44.15	74.00	-29.85	PK	Horizontal
11650.09	30.71	43.60	14.30	39.50	10.20	40.91	54.00	-13.09	AV	Horizontal
13284.79	31.56	42.70	18.00	37.10	12.40	43.96	74.00	-30.04	PK	Vertical
13284.79	28.66	42.70	18.00	37.10	12.40	41.06	54.00	-12.94	AV	Vertical
13293.24	32.41	42.70	18.00	37.10	12.40	44.81	74.00	-29.19	PK	Horizontal
13293.24	29.25	42.70	18.00	37.10	12.40	41.65	54.00	-12.35	AV	Horizontal

- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Scan with 802.11a,802.11n (HT-20),802.11n (HT-40), the worst case is 802.11a.
- 3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



3.2.9 Band Edge

	Band I&II(5.15-5.35)GHz									
Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				802	2.11a BW20N	lHz				
5150	41.43	44.20	8.98	31.60	-3.62	37.81	74	5150	Peak	Vertical
5150	28.98	44.20	8.98	31.60	-3.62	25.36	54	5150	AVG	Vertical
5150	42.15	44.20	8.98	31.60	-3.62	38.53	74	5150	Peak	Horizontal
5150	30.69	44.20	8.98	31.60	-3.62	27.07	54	5150	AVG	Horizontal
5350	46.05	44.20	9.35	31.60	-3.25	42.80	74	5350	Peak	Vertical
5350	28.92	44.20	9.35	31.60	-3.25	25.67	54	5350	AVG	Vertical
5350	38.84	44.20	9.35	31.60	-3.25	35.59	74	5350	Peak	Horizontal
5350	28.15	44.20	9.35	31.60	-3.25	24.90	54	5350	AVG	Horizontal
				802	2.11n BW20N	lHz			•	1
5150	40.49	44.20	8.98	31.60	-3.62	36.87	74	-37.13	Peak	Vertical
5150	28.40	44.20	8.98	31.60	-3.62	24.78	54	-29.22	AVG	Vertical
5150	42.16	44.20	8.98	31.60	-3.62	38.54	74	-35.46	Peak	Horizontal
5150	30.59	44.20	8.98	31.60	-3.62	26.97	54	-27.03	AVG	Horizontal
5350	44.98	44.20	9.35	31.60	-3.25	41.73	74	-32.27	Peak	Vertical
5350	29.34	44.20	9.35	31.60	-3.25	26.09	54	-27.91	AVG	Vertical
5350	38.48	44.20	9.35	31.60	-3.25	35.23	74	-38.77	Peak	Horizontal
5350	30.51	44.20	9.35	31.60	-3.25	27.26	54	-26.74	AVG	Horizontal
				802	2.11n BW40N	lHz				
5150	39.47	44.20	8.98	31.60	-3.62	35.85	74	-38.15	Peak	Vertical
5150	31.24	44.20	8.98	31.60	-3.62	27.62	54	-26.38	AVG	Vertical
5150	38.54	44.20	8.98	31.60	-3.62	34.92	74	-39.08	Peak	Horizonta
5150	29.09	44.20	8.98	31.60	-3.62	25.47	54	-28.53	AVG	Horizontal
5350	42.59	44.20	9.35	31.60	-3.25	39.34	74	-34.66	Peak	Vertical
5350	27.60	44.20	9.35	31.60	-3.25	24.35	54	-29.65	AVG	Vertical
5350	40.95	44.20	9.35	31.60	-3.25	37.70	74	-36.30	Peak	Horizontal
5350	28.28	44.20	9.35	31.60	-3.25	25.03	54	-28.97	AVG	Horizontal



Band III 5470-5725MHz

Band III	Band III(5.47-5.725 GHz)									
Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				80	2.11a BW20 l	МНz				
5470	40.45	44.20	9.67	32.00	-2.53	37.92	74	-36.08	Peak	Vertical
5470	28.97	44.20	9.67	32.00	-2.53	26.44	54	-27.56	AVG	Vertical
5470	41.97	44.20	9.67	32.00	-2.53	39.44	74	-34.56	Peak	Horizontal
5470	30.27	44.20	9.67	32.00	-2.53	27.74	54	-26.26	AVG	Horizontal
5725	46.49	44.20	10.00	32.00	-2.20	44.29	74	-29.71	Peak	Vertical
5725	31.71	44.20	10.00	32.00	-2.20	29.51	54	-24.49	AVG	Vertical
5725	41.65	44.20	10.00	32.00	-2.20	39.45	74	-34.55	Peak	Horizontal
5725	29.26	44.20	10.00	32.00	-2.20	27.06	54	-26.94	AVG	Horizontal
				80	2.11n BW20 l	MHz				
5470	38.60	44.20	9.67	32.00	-2.53	36.07	74	-37.93	Peak	Vertical
5470	27.44	44.20	9.67	32.00	-2.53	24.91	54	-29.09	AVG	Vertical
5470	41.37	44.20	9.67	32.00	-2.53	38.84	74	-35.16	Peak	Horizontal
5470	28.45	44.20	9.67	32.00	-2.53	25.92	54	-28.08	AVG	Horizontal
5725	43.61	44.20	10.00	32.00	-2.20	41.41	74	-32.59	Peak	Vertical
5725	29.61	44.20	10.00	32.00	-2.20	27.41	54	-26.59	AVG	Vertical
5725	41.02	44.20	10.00	32.00	-2.20	38.82	74	-35.18	Peak	Horizontal
5725	27.99	44.20	10.00	32.00	-2.20	25.79	54	-28.21	AVG	Horizontal
				80	2.11n BW40 l	MHz				
5470	38.56	44.20	9.67	32.00	-2.53	36.03	74	-37.97	Peak	Vertical
5470	30.11	44.20	9.67	32.00	-2.53	27.58	54	-26.42	AVG	Vertical
5470	38.06	44.20	9.67	32.00	-2.53	35.53	74	-38.47	Peak	Horizontal
5470	30.12	44.20	9.67	32.00	-2.53	27.59	54	-26.41	AVG	Horizontal
5725	45.92	44.20	10.00	32.00	-2.20	43.72	74	-30.28	Peak	Vertical
5725	28.06	44.20	10.00	32.00	-2.20	25.86	54	-28.14	AVG	Vertical
5725	38.69	44.20	10.00	32.00	-2.20	36.49	74	-37.51	Peak	Horizontal
5725	30.38	44.20	10.00	32.00	-2.20	28.18	54	-25.82	AVG	Horizontal



Band IV(5.725-5.85 GHz)

	Band IV(5.725-5.85 GHz) Band IV(5.725-5.85 GHz)									
Frequency	Meter Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
				80	2.11a BW20N	ЛНz				
5725	40.56	44.20	10.00	32.00	-2.20	38.36	74	-35.64	Peak	Vertical
5725	27.65	44.20	10.00	32.00	-2.20	25.45	54	-28.55	AVG	Vertical
5725	40.30	44.20	10.00	32.00	-2.20	38.10	74	-35.90	Peak	Horizontal
5725	28.71	44.20	10.00	32.00	-2.20	26.51	54	-27.49	AVG	Horizontal
5850	44.15	44.20	10.20	32.00	-2.00	42.15	74	-31.85	Peak	Vertical
5850	28.79	44.20	10.20	32.00	-2.00	26.79	54	-27.21	AVG	Vertical
5850	39.66	44.20	10.20	32.00	-2.00	37.66	74	-36.34	Peak	Horizontal
5850	29.47	44.20	10.20	32.00	-2.00	27.47	54	-26.53	AVG	Horizontal
				80	2.11n BW20N	ИНz				
5725	41.16	44.20	10.00	32.00	-2.20	38.96	74	-35.04	Peak	Vertical
5725	28.32	44.20	10.00	32.00	-2.20	26.12	54	-27.88	AVG	Vertical
5725	37.92	44.20	10.00	32.00	-2.20	35.72	74	-38.28	Peak	Horizontal
5725	28.98	44.20	10.00	32.00	-2.20	26.78	54	-27.22	AVG	Horizontal
5850	46.00	44.20	10.20	32.00	-2.00	44.00	74	-30.00	Peak	Vertical
5850	31.26	44.20	10.20	32.00	-2.00	29.26	54	-24.74	AVG	Vertical
5850	39.31	44.20	10.20	32.00	-2.00	37.31	74	-36.69	Peak	Horizontal
5850	29.37	44.20	10.20	32.00	-2.00	27.37	54	-26.63	AVG	Horizontal
				80	2.11n BW40N	ИHz				
5725	41.80	44.20	10.00	32.00	-2.20	39.60	74	-34.40	Peak	Vertical
5725	27.57	44.20	10.00	32.00	-2.20	25.37	54	-28.63	AVG	Vertical
5725	38.75	44.20	10.00	32.00	-2.20	36.55	74	-37.45	Peak	Horizontal
5725	31.00	44.20	10.00	32.00	-2.20	28.80	54	-25.20	AVG	Horizontal
5850	44.45	44.20	10.20	32.00	-2.00	42.45	74	-31.55	Peak	Vertical
5850	28.90	44.20	10.20	32.00	-2.00	26.90	54	-27.10	AVG	Vertical
5850	38.89	44.20	10.20	32.00	-2.00	36.89	74	-37.11	Peak	Horizontal
5850	28.38	44.20	10.20	32.00	-2.00	26.38	54	-27.62	AVG	Horizontal



4. CONDUCTED SPURIOUS EMISSIONS AND BANDEDGE 4.1 APPLIED PROCEDURES / LIMIT

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, 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:
- (i) 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.

4.1.1 TEST PROCEDURE

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	30 MHz to 10th carrier harmonic		
RB / VB (emission in restricted band)	1000 KHz/3000 KHz		
Trace-Mode:	Max hold		

For Band edge

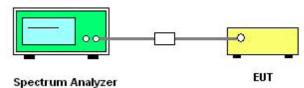
or Barra sage	
Spectrum Parameter	Setting
Detector	Peak
Start/Stan Fraguency	Lower Band Edge: 5700 to 5725 MHz
Start/Stop Frequency	Upper Band Edge: 5850 to 5870 MHz
RB / VB (emission in restricted band)	1000 KHz/3000 KHz
Trace-Mode:	Max hold

4.1.2 DEVIATION FROM STANDARD

No deviation.



4.1.3 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1000 kHz. In order to make an accurate measurement, set the span greater than RBW.

4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

Data See Appendix A



5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

- 1. 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 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- 2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- 3.For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna directional gain is greater than 6 dBi, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.1.1 TEST PROCEDURE

1. The setting follows Method SA-1 of FCC KDB D02 General UNII Test Procedures New Rules v01r03.

For devices operating in the band, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (*i.e.*, 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set RBW $\geq 1/T$, where T is defined in section II.B.l.a).
- b) Set VBW ≥ 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.



5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

Data see Appendix B





6. BANDWIDTH MEASUREMENT

6.1 EMISSION BANDWIDTH (EBW) 26 BANDWID PROCEDURES / LIMIT

See list of measuring instruments of this test report.

6.1.1 TEST PROCEDURE

- 1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
- 2. Set RBW = approximately 1% of the emission bandwidth.
- 3. Set the VBW > = RBW.
- 4. Detector = Peak.
- 5. Trace mode = max hold.
- 6. 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%.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

Data see Appendix C



6.2 OCCUPIED BANDWIDTH (99%) TEST APPLIED PROCEDURES / LIMIT

The following procedure shall be used for measuring (99 %) power bandwidth:

6.2.1 TEST PROCEDURE

- 1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01. The following procedure shall be used for measuring (99 %) power bandwidth:
- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1% to 5% of the OBW
- 4. Set VBW ≥ 3 · RBW
- 5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- 6. Use the 99 % power bandwidth function of the instrument (if available).
- 7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

6.2.2 DEVIATION FROM STANDARD

No deviation.

6.2.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.2.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.2.5 TEST RESULTS

Data See Appendix C





6.3 MINIMUM EMISSION BANDWIDTH(6 DB) PROCEDURES / LIMIT

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

6.3.1 TEST PROCEDURE

- 1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.
- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3 × RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3.2 DEVIATION FROM STANDARD

No deviation.

6.3.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.3.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.3.5 TEST RESULTS

Data see Appendix D



7. MAXIMUM CONDUCTED OUTPUT POWER

7.1 APPLIED PROCEDURES / LIMIT

For mobile and portable 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. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 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, If transmitting antennas of directional gain greater than 6 dBi are used.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used.

FCC Part15 (15.407), Subpart E							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
		0.25 watt	5150-5250				
15.407(a) (1) (iv)	Peak Output Power	The lesser of 250 mW or 11 dBm + 10 log (26 dB emission bandwidth)	5250-5350 5470-5725	PASS			
15.407(a) (3)		1 watt	5725-5825				

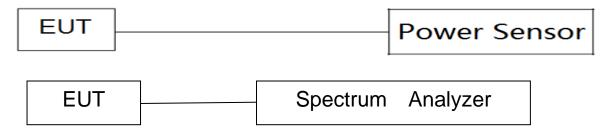
7.1.1 TEST PROCEDURE

The EUT was directly connected to the Power Sensor&PC

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 5 Unless otherwise a special operating condition is specified in the follows during the testing.



7.1.5 TEST RESULTS

Band I (5.15-5.25GHz)

Band I (5.15-5.25GHz)						
Test Channel	Fragues av (MHz)	PK Power	AV Power	LIMIT (dDm)		
rest Channel	Frequency (MHz)	(dBm)	(dBm)	LIMIT (dBm)		
		802.11a				
36	5180	10.54	8.07	23.98		
40	5200	10.91	9.02	23.98		
48	5240	10.76	8.42	23.98		
		802.11n(HT20)				
36	5180	11.12	9.13	23.98		
40	5200	11.45	9.62	23.98		
48	5240	11.08	9.29	23.98		
802.11n(HT40)						
38	5190	10.07	7.93	23.98		
46	5230	9.34	7.22	23.98		

Note:

1. For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 0.25 W.



Band II (5.25-5.35GHz)

	Band II(5.25-5.35GHz)						
Test Channel	Frequency (MHz)	Frequency (MHz) PK Power AV Power		LIMIT (dBm)			
root onamo	r requeries (im iz)	(dBm)	(dBm)				
		802.11a					
52	5260	11.02	8.93	23.98			
60	5300	10.56	8.21	23.98			
64	5320	10.64	8.57	23.98			
		802.11n(HT20)					
52	5260	11.34	9.78	23.98			
60	5300	10.68	8.52	23.98			
64	5320	10.91	9.14	23.98			
802.11n(HT40)							
54	5270	10.12	7.84	23.98			
62	5310	9.46	7.56	23.98			

Note:

1. For mobile and portable client devices in the 5.25-5.35 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 0.25 W.



Band III (5.47-5.725GHz)

Band9 III(5.47-5.725GHz)						
Test Channel	Frequency (MHz)	PK Power (dBm)	AV Power (dBm)	LIMIT (dBm)		
802.11a						
100	5500	10.64	8.93	23.98		
116	5580	9.72	7.42	23.98		
140	5700	9.26	6.82	23.98		
802.11n(HT20)						
100	5500	10.67	8.71	23.98		
116	5580	10.24	8.66	23.98		
140	5700	9.37	7.26	23.98		
802.11n(HT40)						
102	5510	9.72	7.35	23.98		
110	5550	9.15	7.04	23.98		
134	5670	9.07	7.55	23.98		

Note:

1. For mobile and portable client devices in the 5.47-5.725 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 0.25 W.



Band IV (5.725-5.85GHz)

Band IV (5.725-5.85GHz)						
Test Channel	Frequency (MHz)	PK Power	AV Power	LIMIT (dBm)		
		(dBm)	(dBm)			
802.11a						
149	5745	9.72	7.37	30		
157	5785	8.26	6.02	30		
165	5825	8.81	6.87	30		
802.11n(HT20)						
149	5745	9.42	7.460	30		
157	5785	8.37	6.140	30		
165	5825	8.41	6.570	30		
802.11n(HT40)						
151	5755	8.24	6.360	30		
159	5795	8.07	5.940	30		

Note:

1. For the band 5.745-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1 W.



8. AUTOMATICALLY DISCONTINUE TRANSMISSION

8.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

8.2 TEST RESULT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission



9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

9.2 EUT ANTENNA

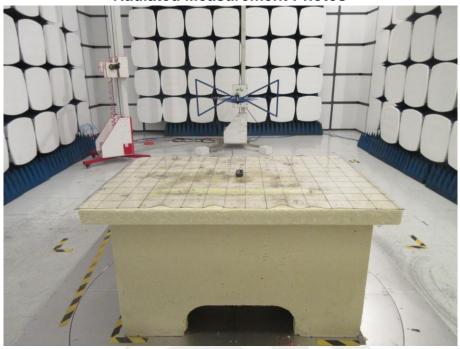
The EUT antenna is PIFA Antenna. It comply with the standard requirement.





APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos







Conducted Measurement Photos



* * * * * END OF THE REPORT * * * *