

FCC TEST REPORT

Report No: STS1704021F02

Issued for

Winner Wave Limited

4F.-5, No.736, Jhongjheng Rd., Jhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)

Product Name:	EZCast
Brand Name:	EZCast, EZCast PRO, MiraScreen, AnyCast, MiraDisplay
Model Name:	EZCast 4K
Series Model:	MiraScreen 4K, AnyCast 4K, MiraDisplay 4K, EZCast PRO 4K
FCC ID:	2ADFS-CC32A
Test Standard:	FCC Part 15.407

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TEST RESULT CERTIFICATION

Applicant's name: Address:	4F5, No.736, Jhongjheng Rd., Jhonghe Dist., New Taipei City
	235, Taiwan (R.O.C.) DongGuan HuaBel Electronic Technology Co.,Ltd
	No.9 North of Industry-Road, Songshan-Lake, Dongguan, China
Product description	
Product name	EZCast
Model and/or type reference :	EZCast 4K
Series Model:	MiraScreen 4K, AnyCast 4K, MiraDisplay 4K, EZCast PRO 4K
Standards:	FCC Part15.407
Test procedure	ANSI C63.10-2013
	is been tested by STS, the test results show that the equipment be with the FCC&IC requirements. And it is applicable only to the eport.
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the document.	
Date of Test	:
Date (s) of performance of tests	: 10 Apr. 2017~27 Apr. 2017
Date of Issue	: 27 Apr. 2017
Test Result	: Pass
Testing Enginee	er :
	Clo h
	(Leo li)
Technical Mana	ger : APPROVAL

(Vita Li)

(Tony liu)

Authorized Signatory:



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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	27 Apr. 2017	STS1704021F02	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 v01r03

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(g)	Frequency Stability	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



1.1 TEST FACTORY

BZT Testing Technology Co., Ltd.

Add.: Buliding 17, Xinghua Road Xingwei industrial Park Fuyong, Baoan District, Shenzhen,

Guangdong, China

CNAS Registration No.: 701733

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	±0.70dB
4	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
6	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
7	All emissions,radiated(>1G)	±3.03dB
8	Temperature	±0.5°C
9	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	EZCast		
Trade Name	EZCast, EZCast PRO, MiraScreen, AnyCast, MiraDisplay		
Model Name	EZCast 4K		
Series Model	MiraScreen 4K, AnyCast 4K, MiraDisplay 4K, EZCast PRO	O 4K	
Model Difference	Different in model name brand name		
	The EUT is a EZCast		
	IEEE 802.11a/ n/ac(HT20) 5.180 IEEE 802.11n/ac(HT40) 5.190G Operation	Hz-5.310GHz <u>z</u> GHz-5.825GHz Hz-5.795GHz	
Product Description	Modulation Type: IEEE for 802.11a/n/ac: OFDM(B 16QAM)	PSK/QPSK/	
	Antenna Designation: See Note 3		
	Max.Output Power(Conducted): 0dBi		
	The duty cycle of WLAN 802.11a/n were 98 %		
	More details of EUT technical specification, please refer to the User's Manual.		
Test Channel	Please refer to the Note 2.		
Power	Input: DC 5V, 1A		
Hardware version			
number			
Software version			
number			
Connecting I/O Port(s)	Please refer to the User's Manual		

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



. [Operation Frequency of channel			
	5.	180GHz-5.240GHz	5	.745GHz-5.825GHz
	Channel	Frequency	Channel	Frequency
	36	5180	149	5745
	38	5190	151	5755
	40	5200	153	5765
	42	5210	157	5785
	44	5220	159	5795
	46	5230	161	5805
	48	5240	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/ac (HT20)		
Channel Freq.(MHz)		
36	5180	
40	5200	
48	5240	

For 802.11a/n/ac (HT20)	
Channel Freq.(MHz	
149	5745
157	5785
165	5825

For 802.11n/ac (HT40)		
Channel	Freq.(MHz)	
38	5190	
46	5230	

For 802.11n/ac (HT40)		
Channel	Freq.(MHz)	
151	5755	
159	5795	



For 802.11ac (HT80)				
Channel Freq.(MHz)				
42	5210			

For 802.11ac (HT80)				
Channel Freq.(MHz)				
155	5775			

Ant	Brand	Model Name	Ant Type	Connector	Gain (dBi)	NOTE
А	EZCast, EZCast PRO, MiraScreen , AnyCast, MiraDispla y	EZCast 4K	PCB Ant	N/A	(5 150 -5 350)MHz: OdBi (5 725 -5 850)MHz: OdBi	WIFI 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 CH149&CH157&CH165	6 Mbps
Mode 3	TX IEEE 802.11n HT20 CH36&CH40&CH48	MCS 0
Mode 4	TX IEEE 802.11ac HT20 CH36&CH40&CH48	NSS1 MCS0
Mode 5	TX IEEE 802.11n HT20 CH149&CH157&CH165	MCS 0
Mode 6	TX IEEE 802.11n HT20 CH149&CH157&CH165	NSS1 MCS0
Mode 7	TX IEEE 802.11n HT40 CH38&CH46	MCS 0
Mode 8	TX IEEE 802.11ac HT40 CH38&CH46	NSS1 MCS0
Mode 9	TX IEEE 802.11n HT40 CH151&CH159	MCS 0
Mode 10	TX IEEE 802.11ac HT40 CH151&CH159	NSS1 MCS0
Mode 11	TX IEEE 802.11ac HT80 CH42	NSS1 MCS0
Mode 12	TX IEEE 802.11ac HT80 CH155	NSS1 MCS0

Conducted test model

Worst Mode	Description
Mode 13	TX and connect with computer

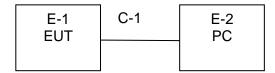
Note: (1) The measurements are performed at the highest, middle, lowest available channels.

(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious EmissionTest







2.4 DESCRIPTION OF SUPPORT UNITS

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-1	EZCast	EZCast, EZCast PRO, MiraScreen, AnyCast, MiraDisplay	EZCast 4K	N/A	EUT
E-2	PC	acer	500-320cx	4CV428DQVV	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable (Charging)	NO	20cm	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 <code>"Length_"</code> 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
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.23	2017.10.22
Spectrum Analyzer	Agilent	AV4051F	Y20141343	2016.10.23	2017.10.22
Test Receiver	R&S	ESCI	101427	2016.10.23	2017.10.22
Bilog Antenna	TESEQ	CBL6111D	34678	2014.11.24	2017.11.23
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2015.03.05	2018.03.04
Horn Antenna	Schwarzbeck	BBHA 9170	9170-0741	2016.03.06	2019.03.03
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.06	2017.06.05
PreAmplifier	Agilent	8449B	60538	2016.10.23	2017.10.22
Loop Antenna	EMCO	6502	9003-2485	2016.03.06	2019.03.03
Low frequency cable	EM	R01	N/A	NCR	NCR
High frequency cable	SCHWARZBECK	AK9515H	SN-96286/9628 7	NCR	NCR

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	102086	2016.10.23	2017.10.22
LISN	R&S	ENV216	101242	2016.10.23	2017.10.22
LISN	EMCO	3810/2NM	000-23625	2016.10.23	2017.10.22
Conduction Cable	EM	C01	N/A	NCR	NCR

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2016.10.23	2017.10.22
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.23	2017.10.22
Signal Analyzer	Agilent	N9020A	MY49100060	2016.10.23	2017.10.22



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



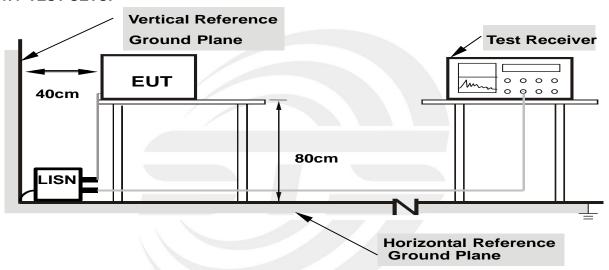
3.1.2 TEST PROCEDURE

- 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.



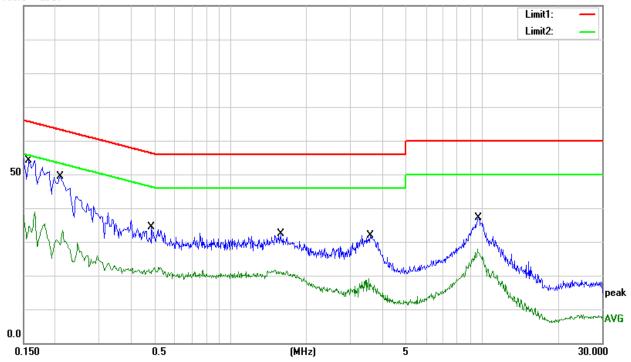
3.1.6 TEST RESULTS

Temperature:	26℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 13	Polarization:	L

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
0.1580	44.95	9.23	54.18	65.57	-11.39	QP
0.1580	25.01	9.23	34.24	55.57	-21.33	AVG
0.2100	40.14	9.22	49.36	63.21	-13.85	QP
0.2100	21.78	9.22	31.00	53.21	-22.21	AVG
0.4860	25.16	9.18	34.34	56.24	-21.90	QP
0.4860	13.14	9.18	22.32	46.24	-23.92	AVG
1.5820	23.17	9.21	32.38	56.00	-23.62	QP
1.5820	11.28	9.21	20.49	46.00	-25.51	AVG
3.5860	22.57	9.26	31.83	56.00	-24.17	QP
3.5860	8.45	9.26	17.71	46.00	-28.29	AVG
9.6740	27.57	9.48	37.05	60.00	-22.95	QP
9.6740	17.18	9.48	26.66	50.00	-23.34	AVG

Remark:

^{1.} Margin = Result (Result = Reading + Factor)-Limit



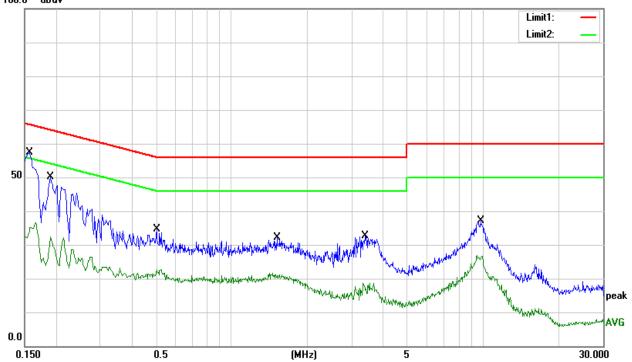


Temperature:	26℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 13	Polarization:	N

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
0.1580	48.19	9.23	57.42	65.57	-8.15	QP
0.1580	25.78	9.23	35.01	55.57	-20.56	AVG
0.1900	40.96	9.23	50.19	64.04	-13.85	QP
0.1900	20.63	9.23	29.86	54.04	-24.18	AVG
0.5020	25.48	9.14	34.62	56.00	-21.38	QP
0.5020	13.14	9.14	22.28	46.00	-23.72	AVG
1.5180	23.01	9.20	32.21	56.00	-23.79	QP
1.5180	11.44	9.20	20.64	46.00	-25.36	AVG
3.3940	23.28	9.26	32.54	56.00	-23.46	QP
3.3940	8.58	9.26	17.84	46.00	-28.16	AVG
9.7700	27.64	9.48	37.12	60.00	-22.88	QP
9.7700	16.85	9.48	26.33	50.00	-23.67	AVG

Remark:

1. 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)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
PREQUENCT (IVID2)	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. Note:

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

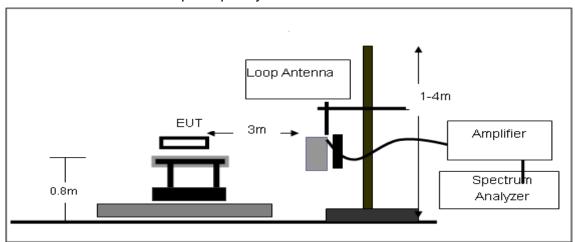
3.2.2 DEVIATION FROM TEST STANDARD

No deviation

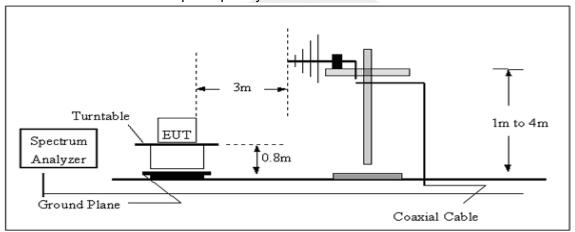


3.2.3 TEST SETUP

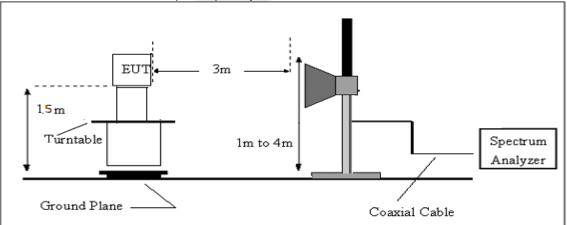
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

Temperature:	24 ℃	Relative Humidtity:	57%
Pressure:	1010 hPa	Test Voltage:	DC 5V from PC
Test Mode:	TX Mode	Polarization :	

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.



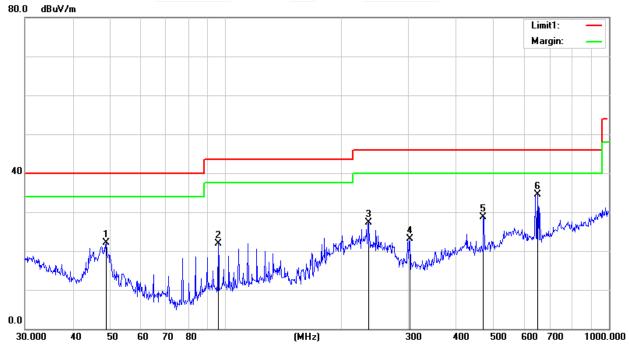
3.2.6 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

Temperature	194 ('	Relative Humidity	57%
Pressure	1010 hPa	Test Voltage	DC 5V from PC
Test Mode	Mode 1-12(Mode 1-6M worst mode)	Polarization	Horizontal

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
48.8430	42.90	20.89	22.01	40.00	-17.99	QP
95.7622	41.51	-19.61	21.90	43.50	-21.60	QP
235.8164	45.44	-18.06	27.38	46.00	-18.62	QP
302.4812	37.86	-14.75	23.11	46.00	-22.89	QP
470.5232	38.50	-9.75	28.75	46.00	-17.25	QP
651.9417	40.79	-6.29	34.50	46.00	-11.50	QP

Remark:

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



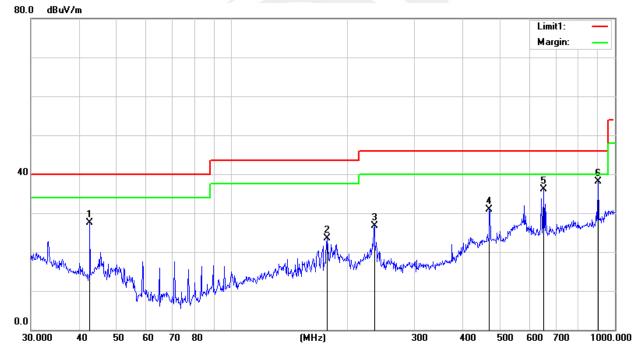


Temperature	125 ('	Relative Humidity	58%
Pressure	1010 hPa	Test Voltage	DC 5V from PC
Test Mode	Mode 1-12(Mode 1-6M worst mode)	Polarization	Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
42.7496	45.24	-17.75	27.49	40.00	-12.51	QP
177.5092	42.93	-19.41	23.52	43.50	-19.98	QP
235.8164	44.86	-18.06	26.80	46.00	-19.20	QP
470.5232	40.65	-9.75	30.90	46.00	-15.10	QP
651.9417	42.42	-6.29	36.13	46.00	-9.87	QP
903.3094	40.19	-2.14	38.05	46.00	-7.95	QP

Remark:

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





3.2.7 TEST RESULTS (ABOVE 1000 MHZ)

Band I 5150-5250MHz

				Ban	d I(5.15-5.25)) GHz				
Frequency (MHz)	Reading	Amplifier	Loss	Antenna Factor	Corrected Factor	Emission Level	Limit (dBuV/m)	Margin	Detector	Comment
(1411 12)	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(abav/iii)	(dB)		
				Low Chan	nel (802.11a/	5180 MHz)				
3253.75	44.62	44.70	6.70	28.20	-9.80	34.82	74.00	-39.18	PK	Vertical
3253.75	41.22	44.70	6.70	28.20	-9.80	31.42	54.00	-22.58	AV	Vertical
3258.29	43.83	44.70	6.70	28.20	-9.80	34.03	74.00	-39.97	PK	Horizontal
3258.29	41.15	44.70	6.70	28.20	-9.80	31.35	54.00	-22.65	AV	Horizontal
3988.45	39.26	44.20	7.90	29.70	-6.60	32.66	74.00	-41.34	PK	Vertical
3988.45	36.17	44.20	7.90	29.70	-6.60	29.57	54.00	-24.43	AV	Vertical
3982.00	39.14	44.20	7.90	29.70	-6.60	32.54	74.00	-41.46	PK	Horizontal
3982.00	35.67	44.20	7.90	29.70	-6.60	29.07	54.00	-24.93	AV	Horizontal
7223.35	36.76	43.50	11.40	35.50	3.40	40.16	74.00	-33.84	PK	Vertical
7223.35	34.70	43.50	11.40	35.50	3.40	38.10	54.00	-15.90	AV	Vertical
7225.71	37.05	43.50	11.40	35.50	3.40	40.45	74.00	-33.55	PK	Horizontal
7225.71	34.18	43.50	11.40	35.50	3.40	37.58	54.00	-16.42	AV	Horizontal
10360.33	39.69	44.50	13.80	38.80	8.10	47.79	74.00	-26.21	PK	Vertical
10360.33	37.08	44.50	13.80	38.80	8.10	45.18	54.00	-8.82	AV	Vertical
10360.29	39.92	44.50	13.80	38.80	8.10	48.02	74.00	-25.98	PK	Horizontal
10360.29	37.15	44.50	13.80	38.80	8.10	45.25	54.00	-8.75	AV	Horizontal
11034.29	33.02	43.60	14.30	39.50	10.20	43.22	74.00	-30.78	PK	Vertical
11034.29	31.00	43.60	14.30	39.50	10.20	41.20	54.00	-12.80	AV	Vertical
11022.60	33.05	43.60	14.30	39.50	10.20	43.25	74.00	-30.75	PK	Horizontal
11022.60	30.76	43.60	14.30	39.50	10.20	40.96	54.00	-13.04	AV	Horizontal
13288.83	32.63	42.60	15.90	38.90	12.20	44.83	74.00	-29.17	PK	Vertical
13288.83	29.58	42.60	15.90	38.90	12.20	41.78	54.00	-12.22	AV	Vertical
13284.02	31.61	42.60	15.90	38.90	12.20	43.81	74.00	-30.19	PK	Horizontal
13284.02	29.83	42.60	15.90	38.90	12.20	42.03	54.00	-11.97	AV	Horizontal
15539.95	31.09	44.10	17.81	39.20	12.91	44.00	74.00	-30.00	PK	Vertical
15539.95	26.92	44.10	17.81	39.20	12.91	39.83	54.00	-14.17	AV	Vertical
15539.99	30.53	44.10	17.81	39.20	12.91	43.44	74.00	-30.56	PK	Horizontal
15539.99	27.93	44.10	17.81	39.20	12.91	40.84	54.00	-13.16	AV	Horizontal



Mid Channel (802.11 a/ 5200 MHz)										
3261.26	44.63	44.70	6.70	28.20	-9.80	34.83	74.00	-39.17	PK	Vertical
3261.26	41.83	44.70	6.70	28.20	-9.80	32.03	54.00	-21.97	AV	Vertical
3251.75	44.24	44.70	6.70	28.20	-9.80	34.44	74.00	-39.56	PK	Horizontal
3251.75	41.93	44.70	6.70	28.20	-9.80	32.13	54.00	-21.87	AV	Horizontal
3999.10	38.70	44.20	7.90	29.70	-6.60	32.10	74.00	-41.90	PK	Vertical
3999.10	36.64	44.20	7.90	29.70	-6.60	30.04	54.00	-23.96	AV	Vertical
3980.81	39.07	44.20	7.90	29.70	-6.60	32.47	74.00	-41.53	PK	Horizontal
3980.81	36.53	44.20	7.90	29.70	-6.60	29.93	54.00	-24.07	AV	Horizontal
7217.98	36.94	43.50	11.40	35.50	3.40	40.34	74.00	-33.66	PK	Vertical
7217.98	34.55	43.50	11.40	35.50	3.40	37.95	54.00	-16.05	AV	Vertical
7223.15	36.53	43.50	11.40	35.50	3.40	39.93	74.00	-34.07	PK	Horizontal
7223.15	33.79	43.50	11.40	35.50	3.40	37.19	54.00	-16.81	AV	Horizontal
10400.01	39.44	44.50	13.80	38.80	8.10	47.54	74.00	-26.46	PK	Vertical
10400.01	36.63	44.50	13.80	38.80	8.10	44.73	54.00	-9.27	AV	Vertical
10400.05	38.81	44.50	13.80	38.80	8.10	46.91	74.00	-27.09	PK	Horizontal
10400.05	37.14	44.50	13.80	38.80	8.10	45.24	54.00	-8.76	AV	Horizontal
11022.51	33.05	43.60	14.30	39.50	10.20	43.25	74.00	-30.75	PK	Vertical
11022.51	30.12	43.60	14.30	39.50	10.20	40.32	54.00	-13.68	AV	Vertical
11020.54	32.70	43.60	14.30	39.50	10.20	42.90	74.00	-31.10	PK	Horizontal
11020.54	29.83	43.60	14.30	39.50	10.20	40.03	54.00	-13.97	AV	Horizontal
13284.86	32.91	42.60	15.90	38.90	12.20	45.11	74.00	-28.89	PK	Vertical
13284.86	29.64	42.60	15.90	38.90	12.20	41.84	54.00	-12.16	AV	Vertical
13291.99	33.00	42.60	15.90	38.90	12.20	45.20	74.00	-28.80	PK	Horizontal
13291.99	28.94	42.60	15.90	38.90	12.20	41.14	54.00	-12.86	AV	Horizontal
15600.23	31.09	42.70	18.00	37.10	12.40	43.49	74.00	-30.51	PK	Vertical
15600.23	26.75	42.70	18.00	37.10	12.40	39.15	54.00	-14.85	AV	Vertical
15600.14	30.11	42.70	18.00	37.10	12.40	42.51	74.00	-31.49	PK	Horizontal
15600.14	26.96	42.70	18.00	37.10	12.40	39.36	54.00	-14.64	AV	Horizontal
17987.32	26.87	42.70	19.40	46.50	23.20	50.07	74.00	-23.93	PK	Vertical
17987.32	24.87	42.70	19.40	46.50	23.20	48.07	54.00	-5.93	AV	Vertical
17998.24	26.85	42.70	19.40	46.50	23.20	50.05	74.00	-23.95	PK	Horizontal
17998.24	20.05	42.70	19.40	46.50	23.20	43.25	54.00	-10.75	AV	Horizontal



	High Channel (802.11 a/ 5240 MHz)										
3262.20	45.17	44.70	6.70	28.20	-9.80	35.37	74.00	-38.63	PK	Vertical	
3262.20	41.66	44.70	6.70	28.20	-9.80	31.86	54.00	-22.14	AV	Vertical	
3250.50	44.91	44.70	6.70	28.20	-9.80	35.11	74.00	-38.89	PK	Horizontal	
3250.50	42.08	44.70	6.70	28.20	-9.80	32.28	54.00	-21.72	AV	Horizontal	
3996.68	38.93	44.20	7.90	29.70	-6.60	32.33	74.00	-41.67	PK	Vertical	
3996.68	36.12	44.20	7.90	29.70	-6.60	29.52	54.00	-24.48	AV	Vertical	
3999.74	38.97	44.20	7.90	29.70	-6.60	32.37	74.00	-41.63	PK	Horizontal	
3999.74	36.84	44.20	7.90	29.70	-6.60	30.24	54.00	-23.76	AV	Horizontal	
7234.89	36.80	43.50	11.40	35.50	3.40	40.20	74.00	-33.80	PK	Vertical	
7234.89	34.06	43.50	11.40	35.50	3.40	37.46	54.00	-16.54	AV	Vertical	
7223.95	37.58	43.50	11.40	35.50	3.40	40.98	74.00	-33.02	PK	Horizontal	
7223.95	33.94	43.50	11.40	35.50	3.40	37.34	54.00	-16.66	AV	Horizontal	
10480.03	39.43	44.50	13.80	38.80	8.10	47.53	74.00	-26.47	PK	Vertical	
10480.03	37.06	44.50	13.80	38.80	8.10	45.16	54.00	-8.84	AV	Vertical	
10480.40	39.88	44.50	13.80	38.80	8.10	47.98	74.00	-26.02	PK	Horizontal	
10480.40	36.14	44.50	13.80	38.80	8.10	44.24	54.00	-9.76	AV	Horizontal	
11032.67	33.03	43.60	14.30	39.50	10.20	43.23	74.00	-30.77	PK	Vertical	
11032.67	30.93	43.60	14.30	39.50	10.20	41.13	54.00	-12.87	AV	Vertical	
11033.16	33.75	43.60	14.30	39.50	10.20	43.95	74.00	-30.05	PK	Horizontal	
11033.16	31.07	43.60	14.30	39.50	10.20	41.27	54.00	-12.73	AV	Horizontal	
13284.22	32.05	42.60	15.90	38.90	12.20	44.25	74.00	-29.75	PK	Vertical	
13284.22	29.44	42.60	15.90	38.90	12.20	41.64	54.00	-12.36	AV	Vertical	
13295.65	32.27	42.60	15.90	38.90	12.20	44.47	74.00	-29.53	PK	Horizontal	
13295.65	29.60	42.60	15.90	38.90	12.20	41.80	54.00	-12.20	AV	Horizontal	
15719.87	31.09	42.70	19.40	46.50	23.20	54.29	74.00	-19.71	PK	Vertical	
15719.87	27.42	42.70	19.40	46.50	23.20	50.62	54.00	-3.38	AV	Vertical	
15720.11	30.84	42.70	19.40	46.50	23.20	54.04	74.00	-19.96	PK	Horizontal	
15720.11	26.58	42.70	19.40	46.50	23.20	49.78	54.00	-4.22	AV	Horizontal	

Remark:

- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Scan with 802.11a,802.11n (HT-20),802.11n (HT-40), 802.11ac (HT-20),802.11ac (HT-40), 802.11ac (HT-80) 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.



Band IV(5.725-5.850) GHz

Bandiv	Band IV(5.725-5.850) GHz											
				Band	IV(5.725-5.8	5) 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 Chani	nel (802.11 a	⁷ 5745 MHz)						
3252.72	43.86	44.70	6.70	28.20	-9.80	34.06	74.00	-39.94	PK	Vertical		
3252.72	41.40	44.70	6.70	28.20	-9.80	31.60	54.00	-22.40	AV	Vertical		
3256.96	44.34	44.70	6.70	28.20	-9.80	34.54	74.00	-39.46	PK	Horizontal		
3256.96	41.73	44.70	6.70	28.20	-9.80	31.93	54.00	-22.07	AV	Horizontal		
3982.14	40.05	44.20	7.90	29.70	-6.60	33.45	74.00	-40.55	PK	Vertical		
3982.14	36.80	44.20	7.90	29.70	-6.60	30.20	54.00	-23.80	AV	Vertical		
3990.90	39.34	44.20	7.90	29.70	-6.60	32.74	74.00	-41.26	PK	Horizontal		
3990.90	36.74	44.20	7.90	29.70	-6.60	30.14	54.00	-23.86	AV	Horizontal		
7231.34	36.65	43.50	11.40	35.50	3.40	40.05	74.00	-33.95	PK	Vertical		
7231.34	34.06	43.50	11.40	35.50	3.40	37.46	54.00	-16.54	AV	Vertical		
7219.57	37.01	43.50	11.40	35.50	3.40	40.41	74.00	-33.59	PK	Horizontal		
7219.57	33.64	43.50	11.40	35.50	3.40	37.04	54.00	-16.96	AV	Horizontal		
10502.37	39.20	44.50	13.90	38.80	8.20	47.40	74.00	-26.60	PK	Vertical		
10502.37	36.86	44.50	13.90	38.80	8.20	45.06	54.00	-8.94	AV	Vertical		
10502.87	39.01	44.50	13.90	38.80	8.20	47.21	74.00	-26.79	PK	Horizontal		
10502.87	36.35	44.50	13.90	38.80	8.20	44.55	54.00	-9.45	AV	Horizontal		
11400.41	34.01	43.60	14.30	39.50	10.20	44.21	74.00	-29.79	PK	Vertical		
11400.41	30.55	43.60	14.30	39.50	10.20	40.75	54.00	-13.25	AV	Vertical		
11400.37	32.93	43.60	14.30	39.50	10.20	43.13	74.00	-30.87	PK	Horizontal		
11400.37	30.54	43.60	14.30	39.50	10.20	40.74	54.00	-13.26	AV	Horizontal		
13292.07	31.79	42.60	15.90	38.90	12.20	43.99	74.00	-30.01	PK	Vertical		
13292.07	29.29	42.60	15.90	38.90	12.20	41.49	54.00	-12.51	AV	Vertical		
13299.83	32.35	42.60	15.90	38.90	12.20	44.55	74.00	-29.45	PK	Horizontal		
13299.83	28.59	42.60	15.90	38.90	12.20	40.79	54.00	-13.21	AV	Horizontal		
15779.97	31.09	42.70	18.00	37.10	12.40	43.49	74.00	-30.51	PK	Vertical		
15779.97	27.42	42.70	18.00	37.10	12.40	39.82	54.00	-14.18	AV	Vertical		
15780.18	30.13	42.70	18.00	37.10	12.40	42.53	74.00	-31.47	PK	Horizontal		
15780.18	27.92	42.70	18.00	37.10	12.40	40.32	54.00	-13.68	AV	Horizontal		
17235.33	28.17	42.70	19.40	46.50	23.20	51.37	74.00	-22.63	PK	Vertical		
17235.33	24.87	42.70	19.40	46.50	23.20	48.07	54.00	-5.93	AV	Vertical		
17235.12	27.44	42.70	19.40	46.50	23.20	50.64	74.00	-23.36	PK	Horizontal		
17235.12	19.25	42.70	19.40	46.50	23.20	42.45	54.00	-11.55	AV	Horizontal		



Mid Channel (802.11 a/ 5785 MHz)										
3248.25	44.36	44.70	6.70	28.20	-9.80	34.56	74.00	-39.44	PK	Vertical
3248.25	41.55	44.70	6.70	28.20	-9.80	31.75	54.00	-22.25	AV	Vertical
3246.63	44.63	44.70	6.70	28.20	-9.80	34.83	74.00	-39.17	PK	Horizontal
3246.63	42.23	44.70	6.70	28.20	-9.80	32.43	54.00	-21.57	AV	Horizontal
3981.10	38.76	44.20	7.90	29.70	-6.60	32.16	74.00	-41.84	PK	Vertical
3981.10	37.15	44.20	7.90	29.70	-6.60	30.55	54.00	-23.45	AV	Vertical
3980.59	39.40	44.20	7.90	29.70	-6.60	32.80	74.00	-41.20	PK	Horizontal
3980.59	36.30	44.20	7.90	29.70	-6.60	29.70	54.00	-24.30	AV	Horizontal
7226.04	37.54	43.50	11.40	35.50	3.40	40.94	74.00	-33.06	PK	Vertical
7226.04	34.60	43.50	11.40	35.50	3.40	38.00	54.00	-16.00	AV	Vertical
7228.42	37.36	43.50	11.40	35.50	3.40	40.76	74.00	-33.24	PK	Horizontal
7228.42	34.38	43.50	11.40	35.50	3.40	37.78	54.00	-16.22	AV	Horizontal
10596.64	39.06	44.50	13.80	38.80	8.10	47.16	74.00	-26.84	PK	Vertical
10596.64	36.76	44.50	13.80	38.80	8.10	44.86	54.00	-9.14	AV	Vertical
10581.90	40.01	44.50	13.80	38.80	8.10	48.11	74.00	-25.89	PK	Horizontal
10581.90	36.77	44.50	13.80	38.80	8.10	44.87	54.00	-9.13	AV	Horizontal
11569.97	33.21	43.60	14.30	39.50	10.20	43.41	74.00	-30.59	PK	Vertical
11569.97	30.80	43.60	14.30	39.50	10.20	41.00	54.00	-13.00	AV	Vertical
11570.17	33.99	43.60	14.30	39.50	10.20	44.19	74.00	-29.81	PK	Horizontal
11570.17	30.55	43.60	14.30	39.50	10.20	40.75	54.00	-13.25	AV	Horizontal
13283.13	32.13	42.60	15.90	38.90	12.20	44.33	74.00	-29.67	PK	Vertical
13283.13	28.62	42.60	15.90	38.90	12.20	40.82	54.00	-13.18	AV	Vertical
13292.83	32.69	42.60	15.90	38.90	12.20	44.89	74.00	-29.11	PK	Horizontal
13292.83	29.03	42.60	15.90	38.90	12.20	41.23	54.00	-12.77	AV	Horizontal
15893.12	31.09	42.70	18.00	37.10	12.40	43.49	74.00	-30.51	PK	Vertical
15893.12	27.98	42.70	18.00	37.10	12.40	40.38	54.00	-13.62	AV	Vertical
15597.97	29.57	42.70	18.00	37.10	12.40	41.97	74.00	-32.03	PK	Horizontal
15597.97	27.07	42.70	18.00	37.10	12.40	39.47	54.00	-14.53	AV	Horizontal
17355.31	28.14	41.80	19.20	42.80	20.20	48.34	74.00	-25.66	PK	Vertical
17355.31	26.08	41.80	19.20	42.80	20.20	46.28	54.00	-7.72	AV	Vertical
17355.25	26.83	41.80	19.20	42.80	20.20	47.03	74.00	-26.97	PK	Horizontal
17355.25	19.97	41.80	19.20	42.80	20.20	40.17	54.00	-13.83	AV	Horizontal



	High Channel (802.11 a/ 5825 MHz)										
3253.90	44.22	44.70	6.70	28.20	-9.80	34.42	74.00	-39.58	PK	Vertical	
3253.90	41.22	44.70	6.70	28.20	-9.80	31.42	54.00	-22.58	AV	Vertical	
3248.78	44.20	44.70	6.70	28.20	-9.80	34.40	74.00	-39.60	PK	Horizontal	
3248.78	41.67	44.70	6.70	28.20	-9.80	31.87	54.00	-22.13	AV	Horizontal	
3995.52	39.29	44.20	7.90	29.70	-6.60	32.69	74.00	-41.31	PK	Vertical	
3995.52	36.30	44.20	7.90	29.70	-6.60	29.70	54.00	-24.30	AV	Vertical	
3997.29	40.10	44.20	7.90	29.70	-6.60	33.50	74.00	-40.50	PK	Horizontal	
3997.29	36.35	44.20	7.90	29.70	-6.60	29.75	54.00	-24.25	AV	Horizontal	
7223.95	37.45	43.50	11.40	35.50	3.40	40.85	74.00	-33.15	PK	Vertical	
7223.95	33.74	43.50	11.40	35.50	3.40	37.14	54.00	-16.86	AV	Vertical	
7234.37	37.48	43.50	11.40	35.50	3.40	40.88	74.00	-33.12	PK	Horizontal	
7234.37	34.27	43.50	11.40	35.50	3.40	37.67	54.00	-16.33	AV	Horizontal	
10639.69	39.20	44.50	13.80	38.80	8.10	47.30	74.00	-26.70	PK	Vertical	
10639.69	36.41	44.50	13.80	38.80	8.10	44.51	54.00	-9.49	AV	Vertical	
10640.28	39.26	44.50	13.80	38.80	8.10	47.36	74.00	-26.64	PK	Horizontal	
10640.28	35.96	44.50	13.80	38.80	8.10	44.06	54.00	-9.94	AV	Horizontal	
11650.25	34.08	43.60	14.30	39.50	10.20	44.28	74.00	-29.72	PK	Vertical	
11650.25	30.02	43.60	14.30	39.50	10.20	40.22	54.00	-13.78	AV	Vertical	
11650.16	34.02	43.60	14.30	39.50	10.20	44.22	74.00	-29.78	PK	Horizontal	
11650.16	30.46	43.60	14.30	39.50	10.20	40.66	54.00	-13.34	AV	Horizontal	
13296.81	31.87	42.70	18.00	37.10	12.40	44.27	74.00	-29.73	PK	Vertical	
13296.81	29.37	42.70	18.00	37.10	12.40	41.77	54.00	-12.23	AV	Vertical	
13288.80	31.65	42.70	18.00	37.10	12.40	44.05	74.00	-29.95	PK	Horizontal	
13288.80	29.06	42.70	18.00	37.10	12.40	41.46	54.00	-12.54	AV	Horizontal	
17474.89	31.09	41.80	19.20	42.80	20.20	51.29	74.00	-22.71	PK	Vertical	
17474.89	26.97	41.80	19.20	42.80	20.20	47.17	54.00	-6.83	AV	Vertical	
17475.09	30.90	41.80	19.20	42.80	20.20	51.10	74.00	-22.90	PK	Horizontal	
17475.09	27.04	41.80	19.20	42.80	20.20	47.24	54.00	-6.76	AV	Horizontal	

Remark:

- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Scan with 802.11a,802.11n (HT-20),802.11n (HT-40), 802.11ac (HT-20),802.11ac (HT-40), 802.11ac (HT-80) 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.



3.2.8 BAND EDGE

				Band	l I(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	39.04	44.20	8.98	31.60	-3.62	35.42	74.00	-38.58	Peak	Vertical
5150	30.11	44.20	8.98	31.60	-3.62	26.49	54.00	-27.51	AVG	Vertical
5150	41.74	44.20	8.98	31.60	-3.62	38.12	74.00	-35.88	Peak	Horizontal
5150	31.81	44.20	8.98	31.60	-3.62	28.19	54.00	-25.81	AVG	Horizontal
5350	43.85	44.20	9.35	31.60	-3.25	40.60	74.00	-33.40	Peak	Vertical
5350	27.64	44.20	9.35	31.60	-3.25	24.39	54.00	-29.61	AVG	Vertical
5350	40.86	44.20	9.35	31.60	-3.25	37.61	74.00	-36.39	Peak	Horizontal
5350	31.52	44.20	9.35	31.60	-3.25	28.27	54.00	-25.73	AVG	Horizontal
				802	2.11n BW20N	lHz			•	1
5150	38.98	44.20	8.98	31.60	-3.62	35.36	74.00	-38.64	Peak	Vertical
5150	28.96	44.20	8.98	31.60	-3.62	25.34	54.00	-28.66	AVG	Vertical
5150	41.37	44.20	8.98	31.60	-3.62	37.75	74.00	-36.25	Peak	Horizontal
5150	27.96	44.20	8.98	31.60	-3.62	24.34	54.00	-29.66	AVG	Horizontal
5350	44.27	44.20	9.35	31.60	-3.25	41.02	74.00	-32.98	Peak	Vertical
5350	30.22	44.20	9.35	31.60	-3.25	26.97	54.00	-27.03	AVG	Vertical
5350	38.34	44.20	9.35	31.60	-3.25	35.09	74.00	-38.91	Peak	Horizontal
5350	31.95	44.20	9.35	31.60	-3.25	28.70	54.00	-25.30	AVG	Horizontal
				802	2.11n BW40N	lHz				
5150	40.43	44.20	8.98	31.60	-3.62	36.81	74.00	-37.19	Peak	Vertical
5150	29.56	44.20	8.98	31.60	-3.62	25.94	54.00	-28.06	AVG	Vertical
5150	40.84	44.20	8.98	31.60	-3.62	37.22	74.00	-36.78	Peak	Horizontal
5150	29.34	44.20	8.98	31.60	-3.62	25.72	54.00	-28.28	AVG	Horizontal
5350	44.49	44.20	9.35	31.60	-3.25	41.24	74.00	-32.76	Peak	Vertical
5350	28.50	44.20	9.35	31.60	-3.25	25.25	54.00	-28.75	AVG	Vertical
5350	39.83	44.20	9.35	31.60	-3.25	36.58	74.00	-37.42	Peak	Horizontal
5350	30.03	44.20	9.35	31.60	-3.25	26.78	54.00	-27.22	AVG	Horizontal



				802	2.11ac BW20	MHz				
5150	38.96	44.20	8.98	31.60	-3.62	35.34	74.00	-38.66	Peak	Vertical
5150	31.47	44.20	8.98	31.60	-3.62	27.85	54.00	-26.15	AVG	Vertical
5150	38.58	44.20	8.98	31.60	-3.62	34.96	74.00	-39.04	Peak	Horizontal
5150	30.83	44.20	8.98	31.60	-3.62	27.21	54.00	-26.79	AVG	Horizontal
5350	45.15	44.20	9.35	31.60	-3.25	41.90	74.00	-32.10	Peak	Vertical
5350	31.69	44.20	9.35	31.60	-3.25	28.44	54.00	-25.56	AVG	Vertical
5350	39.47	44.20	9.35	31.60	-3.25	36.22	74.00	-37.78	Peak	Horizontal
5350	31.20	44.20	9.35	31.60	-3.25	27.95	54.00	-26.05	AVG	Horizontal
				802	2.11ac BW40	MHz				
5150	40.72	44.20	8.98	31.60	-3.62	37.10	74.00	-36.90	Peak	Vertical
5150	29.57	44.20	8.98	31.60	-3.62	25.95	54.00	-28.05	AVG	Vertical
5150	38.04	44.20	8.98	31.60	-3.62	34.42	74.00	-39.58	Peak	Horizontal
5150	28.23	44.20	8.98	31.60	-3.62	24.61	54.00	-29.39	AVG	Horizontal
5350	45.46	44.20	9.35	31.60	-3.25	42.21	74.00	-31.79	Peak	Vertical
5350	28.70	44.20	9.35	31.60	-3.25	25.45	54.00	-28.55	AVG	Vertical
5350	39.28	44.20	9.35	31.60	-3.25	36.03	74.00	-37.97	Peak	Horizontal
5350	28.49	44.20	9.35	31.60	-3.25	25.24	54.00	-28.76	AVG	Horizontal
				802	2.11ac BW80	MHz				
5150	39.39	44.20	8.98	31.60	-3.62	35.77	74.00	-38.23	Peak	Vertical
5150	30.07	44.20	8.98	31.60	-3.62	26.45	54.00	-27.55	AVG	Vertical
5150	42.02	44.20	8.98	31.60	-3.62	38.40	74.00	-35.60	Peak	Horizontal
5150	28.50	44.20	8.98	31.60	-3.62	24.88	54.00	-29.12	AVG	Horizontal
5350	46.40	44.20	9.35	31.60	-3.25	43.15	74.00	-30.85	Peak	Vertical
5350	31.21	44.20	9.35	31.60	-3.25	27.96	54.00	-26.04	AVG	Vertical
5350	39.92	44.20	9.35	31.60	-3.25	36.67	74.00	-37.33	Peak	Horizontal
5350	27.69	44.20	9.35	31.60	-3.25	24.44	54.00	-29.56	AVG	Horizontal



Band IV(5.725-5.85 GHz)

				Band	IV(5.725-5.8	5 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	ИНz				
5725	39.11	44.20	10.00	32.00	-2.20	36.91	74.00	-37.09	Peak	Vertical
5725	30.90	44.20	10.00	32.00	-2.20	28.70	54.00	-25.30	AVG	Vertical
5725	42.24	44.20	10.00	32.00	-2.20	40.04	74.00	-33.96	Peak	Horizontal
5725	29.26	44.20	10.00	32.00	-2.20	27.06	54.00	-26.94	AVG	Horizontal
5850	45.71	44.20	10.20	32.00	-2.00	43.71	74.00	-30.29	Peak	Vertical
5850	29.09	44.20	10.20	32.00	-2.00	27.09	54.00	-26.91	AVG	Vertical
5850	41.18	44.20	10.20	32.00	-2.00	39.18	74.00	-34.82	Peak	Horizontal
5850	29.03	44.20	10.20	32.00	-2.00	27.03	54.00	-26.97	AVG	Horizontal
				80	2.11n BW20N	ИНz				
5725	39.67	44.20	10.00	32.00	-2.20	37.47	74.00	-36.53	Peak	Vertical
5725	30.99	44.20	10.00	32.00	-2.20	28.79	54.00	-25.21	AVG	Vertical
5725	40.26	44.20	10.00	32.00	-2.20	38.06	74.00	-35.94	Peak	Horizontal
5725	29.85	44.20	10.00	32.00	-2.20	27.65	54.00	-26.35	AVG	Horizontal
5850	43.31	44.20	10.20	32.00	-2.00	41.31	74.00	-32.69	Peak	Vertical
5850	28.48	44.20	10.20	32.00	-2.00	26.48	54.00	-27.52	AVG	Vertical
5850	41.57	44.20	10.20	32.00	-2.00	39.57	74.00	-34.43	Peak	Horizontal
5850	29.84	44.20	10.20	32.00	-2.00	27.84	54.00	-26.16	AVG	Horizontal
				80	2.11n BW40N	ИНz				
5725	41.42	44.20	10.00	32.00	-2.20	39.22	74.00	-34.78	Peak	Vertical
5725	30.20	44.20	10.00	32.00	-2.20	28.00	54.00	-26.00	AVG	Vertical
5725	41.23	44.20	10.00	32.00	-2.20	39.03	74.00	-34.97	Peak	Horizontal
5725	31.60	44.20	10.00	32.00	-2.20	29.40	54.00	-24.60	AVG	Horizontal
5850	46.18	44.20	10.20	32.00	-2.00	44.18	74.00	-29.82	Peak	Vertical
5850	28.74	44.20	10.20	32.00	-2.00	26.74	54.00	-27.26	AVG	Vertical
5850	41.73	44.20	10.20	32.00	-2.00	39.73	74.00	-34.27	Peak	Horizontal
5850	30.38	44.20	10.20	32.00	-2.00	28.38	54.00	-25.62	AVG	Horizontal



802.11ac BW20MHz										
5725	40.30	44.20	10.00	32.00	-2.20	38.10	74.00	-35.90	Peak	Vertical
5725	29.86	44.20	10.00	32.00	-2.20	27.66	54.00	-26.34	AVG	Vertical
5725	38.21	44.20	10.00	32.00	-2.20	36.01	74.00	-37.99	Peak	Horizontal
5725	30.65	44.20	10.00	32.00	-2.20	28.45	54.00	-25.55	AVG	Horizontal
5850	46.54	44.20	10.20	32.00	-2.00	44.54	74.00	-29.46	Peak	Vertical
5850	31.01	44.20	10.20	32.00	-2.00	29.01	54.00	-24.99	AVG	Vertical
5850	38.82	44.20	10.20	32.00	-2.00	36.82	74.00	-37.18	Peak	Horizontal
5850	29.18	44.20	10.20	32.00	-2.00	27.18	54.00	-26.82	AVG	Horizontal
802.11ac BW40MHz										
5725	40.17	44.20	10.00	32.00	-2.20	37.97	74.00	-36.03	Peak	Vertical
5725	31.65	44.20	10.00	32.00	-2.20	29.45	54.00	-24.55	AVG	Vertical
5725	39.66	44.20	10.00	32.00	-2.20	37.46	74.00	-36.54	Peak	Horizontal
5725	28.00	44.20	10.00	32.00	-2.20	25.80	54.00	-28.20	AVG	Horizontal
5850	45.56	44.20	10.20	32.00	-2.00	43.56	74.00	-30.44	Peak	Vertical
5850	31.37	44.20	10.20	32.00	-2.00	29.37	54.00	-24.63	AVG	Vertical
5850	38.08	44.20	10.20	32.00	-2.00	36.08	74.00	-37.92	Peak	Horizontal
5850	30.13	44.20	10.20	32.00	-2.00	28.13	54.00	-25.87	AVG	Horizontal
	802.11ac BW80MHz									
5725	41.21	44.20	10.00	32.00	-2.20	39.01	74.00	-34.99	Peak	Vertical
5725	28.57	44.20	10.00	32.00	-2.20	26.37	54.00	-27.63	AVG	Vertical
5725	42.23	44.20	10.00	32.00	-2.20	40.03	74.00	-33.97	Peak	Horizontal
5725	28.03	44.20	10.00	32.00	-2.20	25.83	54.00	-28.17	AVG	Horizontal
5850	44.20	44.20	10.20	32.00	-2.00	42.20	74.00	-31.80	Peak	Vertical
5850	31.88	44.20	10.20	32.00	-2.00	29.88	54.00	-24.12	AVG	Vertical
5850	37.66	44.20	10.20	32.00	-2.00	35.66	74.00	-38.34	Peak	Horizontal
5850	32.08	44.20	10.20	32.00	-2.00	30.08	54.00	-23.92	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

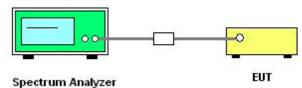
Spectrum Parameter	Setting			
Detector	Peak			
Start/Stan Fraguenay	Lower Band Edge: 5700 to 5725 MHz			
Start/Stop Frequency	Upper Band Edge: 5850 to 5870 MHz			
RB / VB (emission in restricted band)	1000 KHz/3000 KHz			
Trace-Mode:	Max hold			

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

Conducted measurement: N/A

Radiated measurement: Refer to 3.2.8



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





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 v01r03
- 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 v01r03. 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 v01r03.
- 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)		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	

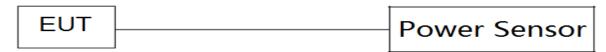
7.1.1 TEST PROCEDURE

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	Frequency (MHz)	PK Power (dBm)	AV Power (dBm)	LIMIT (dBm)
		802.11a		
36	5180	6.78	4.55	23.98
40	5200	6.72	4.71	23.98
48	5240	6.67	4.66	23.98
		802.11n(HT20)		
36	5180	6.75	4.97	23.98
40	5200	6.71	4.42	23.98
48	5240	6.64	5.04	23.98
		802.11n(HT40)		
38	5190	4.47	2.96	23.98
46	5230	3.89	1.47	23.98
		802.11ac(HT20)		
36	5180	6.57	4.52	23.98
40	5200	6.61	4.61	23.98
48	5240	6.52	4.32	23.98
802.11ac(HT40)				
38	5190	4.38	2.29	23.98
46	5230	3.84	1.61	23.98
		802.11ac(HT80)		•
42	5210	3.72	1.43	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 IV (5.725-5.85GHz)

Band IV (5.725-5.85GHz)				
Test Channel	Frequency (MHz)	PK Power (dBm)	AV Power (dBm)	LIMIT (dBm)
		802.11a		
149	5745	1.68	-0.13	30
157	5785	1.79	-0.28	30
165	5825	1.08	-0.47	30
		802.11n(HT20)		
149	5745	1.630	-0.840	30
157	5785	1.470	-0.100	30
165	5825	1.040	-0.350	30
	•	802.11n(HT40)		
151	5755	0.270	-1.250	30
159	5795	0.320	-1.540	30
		802.11ac(HT20)		
149	5745	1.570	-0.430	30
157	5785	1.410	-0.920	30
165	5825	0.850	-1.560	30
802.11ac(HT40)				
151	5755	0.240	-1.480	30
159	5795	0.180	-1.400	30
		802.11ac(HT80)		
155	5775	-0.550	-2.540	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. FREQUENCY STABILITY MEASUREMENT

8.1 LIMIT OF FREQUENCY STABILITY

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

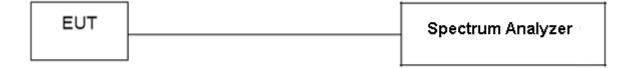
8.1.1 MEASURING INSTRUMENTS

See list of measuring instruments of this test report.

8.1.2 TEST PROCEDURES

- 1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- 2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
- 3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

8.1.3 TEST SETUP





8.1.4 TEST RESULTS

NOTE: 1. all bandwidth and mode been test, Only the worst data.

Voltago	Band I (5.15-5.25GHz)Measurement Frequency(MHz)
Voltage	5200
MAX(5.5V)	5199.9289
Nom(5.0V)	5199.9257
MIN(4.5V)	5199.9303
Max.Deviation(MHz)	0.0743
Max.Deviation(ppm)	14.29

Temperature Vs. Frequency Stabilty:

Temperature	Measurement Frequency(MHz)
(°C)	5200
-30	5199.9312
-20	5199.9302
-10	5199.9286
0	5199.9277
10	5199.9274
20	5199.9252
30	5199.9278
40	5199.927
50	5199.9253
Max.Deviation(MHz)	0.0748
Max.Deviation(ppm)	14.38



Voltage	Band IV (5.725-5.85GHz) Measurement Frequency(MHz)
voltage	5785
MAX(5.5V)	5784.9236
Nom(5.0V)	5784.9263
MIN(4.5V)	5784.9259
Max.Deviation(MHz)	0.0764
Max.Deviation(ppm)	14.69

Temperature Vs. Frequency Stabilty:

Temperature	Measurement Frequency(MHz)
(°C)	5785
-30	5784.9307
-20	5784.9269
-10	5784.9247
0	5784.9223
10	5784.923
20	5784.9268
30	5784.9245
40	5784.9265
50	5784.923
Max.Deviation(MHz)	0.0777
Max.Deviation(ppm)	13.43



9. AUTOMATICALLY DISCONTINUE TRANSMISSION

9.1 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.

9.2 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



10. ANTENNA REQUIREMENT

10.1 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.

10.2 EUT ANTENNA

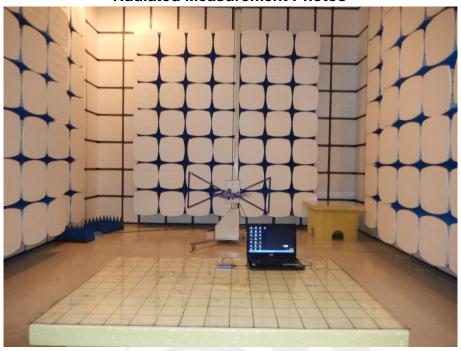
The EUT antenna is internal PCB Antenna. It comply with the standard requirement.





APPENDIX - PHOTOS OF TEST SETUP









Radiated Measurement Photos



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