FCC 47 CFR PART 15 SUBPART E

Product Type	:	Play-Fi Module
Applicant	:	Phorus, Inc.
Address	:	16255 Ventura Boulevard, Encino,California, 91436 United States
Trade Name	:	DTS
Model Number	:	CAPRICA2L
Test Specification	:	FCC 47 CFR PART 15 SUBPART E ANSI C63.10:2013
Receive Date	:	Apr. 15, 2016
Test Period	:	May 11 ~ May 12, 2016
Issue Date	:	Jun. 03, 2016

Issue by

A Test Lab Techno Corp.
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Taiwan Accreditation Foundation accreditation number: 1330

Revision History

Rev.	Issue Date	Revisions	Revised By
00	May 24, 2016	Initial Issue	Snow Wang
01	Jun. 03, 2016	Revised report information.	Peggy Chang

Verification of Compliance

Issued Date: Jun. 03, 2016

Product Type	:	Play-Fi Module
Applicant	:	Phorus, Inc.
Address	:	16255 Ventura Boulevard, Encino,California, 91436 United States
Trade Name	:	DTS
Model Number	:	CAPRICA2L
FCC ID	:	2AAWQ-CAPRICA2L
EUT Rated Voltage	:	DC 5V / DC 3.3V / DC 1.8V / DC 1.1V
Test Voltage	:	120 Vac / 60 Hz
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART E ANSI C63.10:2013
Test Result	:	Complied
Performing Lab.	:	A Test Lab Techno Corp. No. 140-1, Changan Street, Bade District, Taoyuan City 33465, Taiwan (R.O.C) Tel：+86-3-2710188 / Fax：+86-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330 http://www.atl-lab.com.tw/e-index.htm

A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By	:	Fly Lu	Reviewed By	:	Eric Ou Yang
(Manager)		(Fly Lu)	(Testing Engineer)		(Eric Ou Yang)

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1 General Information

1.1. Summary of Test Result

Standard FCC	Item	Result	Remark
15.407(b)(6) 15.207	AC Power Conducted Emission	N/A	---
15.407(b) 15.205 / 15.209	Transmitter Radiated Emissions	PASS	---
15.407(a)	Maximum Conducted Output Power	N/A	---
15.407(a)	26dB RF Bandwidth	N/A	---
15.407(a)	6dB RF Bandwidth	N/A	-----
15.407(a)	Peak Power Spectral Density	N/A	---
15.407(g)	Frequency Stability	N/A	---
15.407(a) 15.203	Antenna Requirement	PASS	---

The test results of this report relate only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

Note: The devise is module: CAPRICA2L adding new type antenna to do class Ⅱ permissive change report so it only test transmitter radiated emissions and band edge measurement.

1.2. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conducted Emission	9kHz ~ 150KHz	2.7 dB
	150kHz ~ 30MHz	2.8 dB
Radiated Emission	9kHz ~ 30MHz	1.457 dB
	30MHz ~ 1000MHz	6.300 dB
	1000MHz ~ 18000MHz	5.474 dB
	18000MHz ~ 26500MHz	5.630 dB
	26500MHz ~ 40000MHz	5.054 dB
Conducted Output Power		+0.27 dB / -0.28 dB
RF Bandwidth		4.96%
Power Spectral Density		+0.71 dB / -0.77 dB
Frequency Stability		+ 2.212 x 10-7% / - 2.170 x 10-7
Duty Cycle		1.06%
Time Occupancy		1.40%

2 EUT Description

Applicant	Phorus, Inc. 16255 Ventura Boulevard, Encino,California, 91436 United States			
Manufacturer	LITE-ON Technology (Changzhou) Co., Ltd A9 Building, No. 88, Yanghu Road, Wujin Hi-Tech Industrial Development Zone, Changzhou City, Jiangsu Province, P.R. China			
Product Type	Play-Fi Module			
Trade Name	DTS			
Model No.	CAPRICA2L			
FCC ID	2AAWQ-CAPRICA2L			
Class II Permissive Change	Adding new type antenna.			
Frequency Range	Band	Mode	Frequency Range (MHz)	Number of Channels
	U-NII Band I	IEEE 802.11a	5180 – 5240	4 Channels
		IEEE 802.11n 20 MHz	5180 – 5240	4 Channels
		IEEE 802.11n 40 MHz	5190 – 5230	2 Channels
	U-NII Band II-A	IEEE 802.11a	5260 – 5320	4 Channels
		IEEE 802.11n 20 MHz	5260 – 5320	4 Channels
		IEEE 802.11n 40 MHz	5270 – 5310	2 Channels
	U-NII Band II-C	IEEE 802.11a	5500 – 5700	11 Channels
		IEEE 802.11n 20 MHz	5500 – 5700	11 Channels
		IEEE 802.11n 40 MHz	5510 – 5670	5 Channels
	U-NII Band III	IEEE 802.11a	5745 – 5825	5 Channels
		IEEE 802.11n 20 MHz	5745 – 5825	5 Channels
		IEEE 802.11n 40 MHz	5755 – 5795	2 Channels
Modulation Type	OFDM			
Equipment Type	Client (without radar detection function)			
Antenna Used	Manufacturer	Model Number	Type	Max. Gain
	HWA SUNG ELECOM CO., LTD.	CSA3A022Z	PIFA Antenna	U-NII Band I: 3.40 dBi U-NII Band II-A: 3.40 dBi U-NII Band II-C: 1.36 dBi U-NII Band III: 2.62 dBi
Antenna Delivery	1TX + 1RX			

RF Output Power	IEEE 802.11a U-NII Band I : 0.017 W / 12.43 dBm
	IEEE 802.11a U-NII Band II-A : 0.019 W / 12.85 dBm
	IEEE 802.11a U-NII Band II-C : 0.024 W / 13.75 dBm
	IEEE 802.11a U-NII Band III : 0.024 W / 13.87 dBm
	IEEE 802.11n 20MHz U-NII Band I: 0.012 W / 10.68 dBm
	IEEE 802.11n 20MHz U-NII Band II-A: 0.012 W / 10.79 dBm
	IEEE 802.11n 20MHz U-NII Band II-C: 0.016 W / 12.00 dBm
	IEEE 802.11n 20MHz U-NII Band III: 0.014 W / 11.40 dBm
	IEEE 802.11n 40MHz U-NII Band I: 0.011 W / 10.47 dBm
	IEEE 802.11n 40MHz U-NII Band II-A: 0.011W / 10.52 dBm
	IEEE 802.11n 40MHz U-NII Band II-C: 0.016 W / 12.00 dBm
	IEEE 802.11n 40MHz U-NII Band III: 0.014 W / 11.45 dBm

3 Test Methodology

3.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Normal Operation Mode
Mode 2: IEEE 802.11a Link Mode
Mode 3: IEEE 802.11n 20MHz Link Mode
Mode 4: IEEE 802.11n 40MHz Link Mode

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

Test Mode	ANT-0	ANT-1	ANT-0+1
Mode 2: IEEE 802.11a Link Mode	V	V	---
Mode 3: IEEE 802.11n 20MHz Link Mode	V	V	---
Mode 4: IEEE 802.11n 40MHz Link Mode	V	V	---

Test Mode	Band	Data Rate	Test Channel
IEEE 802.11a Link Mode	U-NII Band I	6M	36, 44, 48
	U-NII Band II-A		52, 56, 64
	U-NII Band II-C		100, 116, 140
	U-NII Band III		149, 157, 165
IEEE 802.11n 20MHz Link Mode	U-NII Band I	6.5M	36, 44, 48
	U-NII Band II-A		52, 56, 64
	U-NII Band II-C		100, 116, 140
	U-NII Band III		149, 157, 165
IEEE 802.11n 40MHz Link Mode	U-NII Band I	13.5M	38, 46
	U-NII Band II-A		54, 62
	U-NII Band II-C		102, 110, 134
	U-NII Band III		151, 159

3.2. EUT Exercise Software

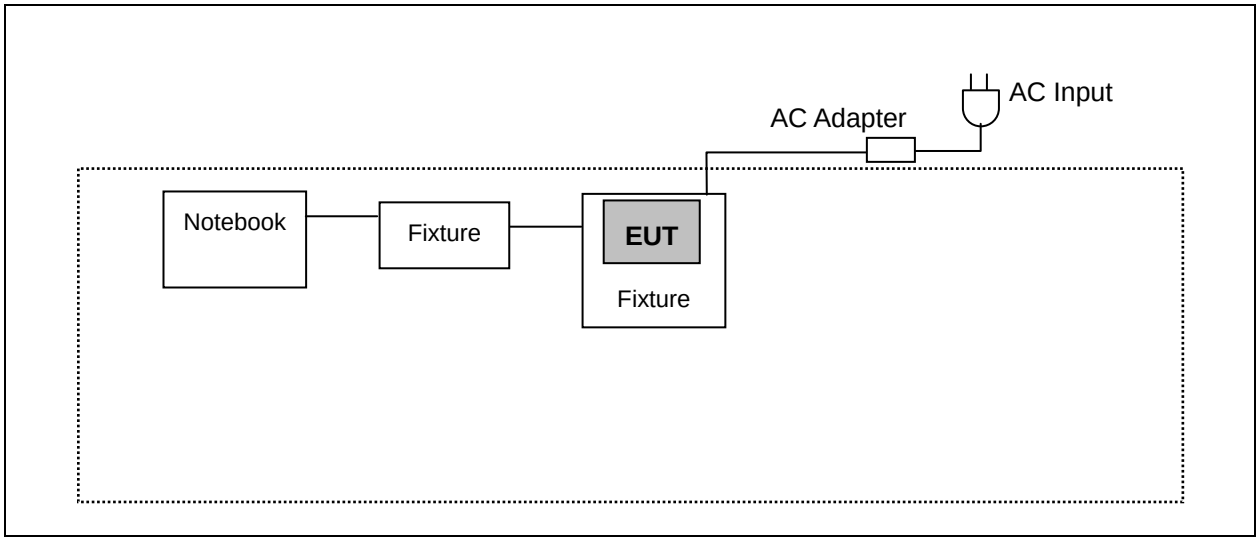
The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement. According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

1.	Setup the EUT shown on 3.3.
2.	Turn on the power of all equipment.
3.	Turn on Wi-Fi function link to Notebook.
4.	EUT run test program.

Measurement Software	
1	EZ-EMC Ver ATL-ITC-3A1-1

3.3. Configuration of Test System Details

Radiated Emissions



3.4. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	26
Humidity (%RH)	25-75	60
Barometric pressure (mbar)	860-1060	950

4 Radiated Emission Measurement

4.1. Limit

(a) Undesirable emission limits. Except as shown in paragraph (b) 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.

(b) Limits of Radiated Emission Measurement

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequency Range (MHz)	Field Strength (microvolts/meter)	Measurement Distance (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	10	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note: 1. The lower limit shall apply at the transition frequencies.

2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2. Test Instruments

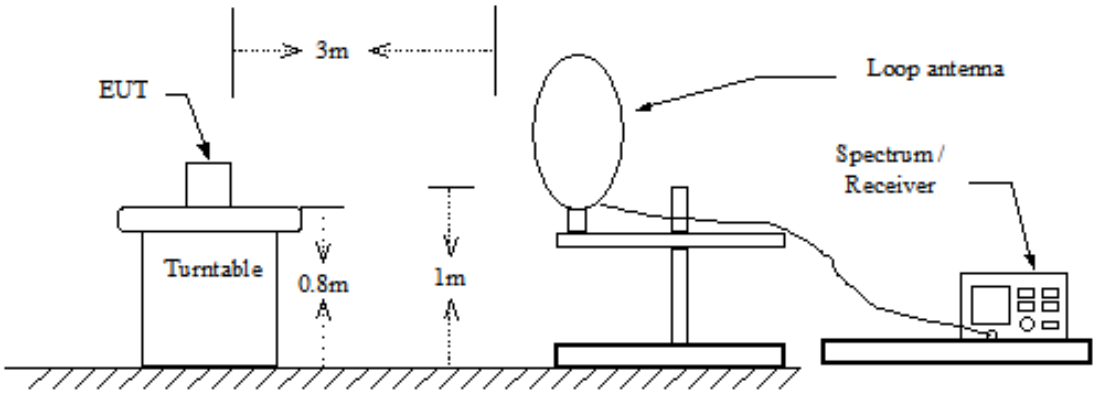
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
RF Pre-selector	Agilent	N9039A	MY46520256	01/08/2016	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/08/2016	(1)
Pre Amplifier	Agilent	8449B	3008A02237	10/07/2015	(1)
Pre Amplifier	Agilent	8447D	2944A11119	01/11/2016	(1)
Broadband Antenna	Schwarzbeck	VULB9168	416	09/25/2015	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/12/2015	(1)
Horn Antenna	ETS	3116	86467	09/01/2015	(1)
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	02/01/2016	(1)
Microwave Cable	EMCI	EMC102-KM-KM-14000	151001	10/15/2015	(1)
Microwave Cable	EMCI	EMC-104-SM-SM-14000	140202	10/15/2015	(1)
Microwave Cable	EMCI	EMC104-SM-SM-600	140301	10/15/2015	(1)
Test Site	ATL	TE01	888001	08/27/2015	(1)

Remark: (1) Calibration period 1 year. (2) Calibration period 2 years.

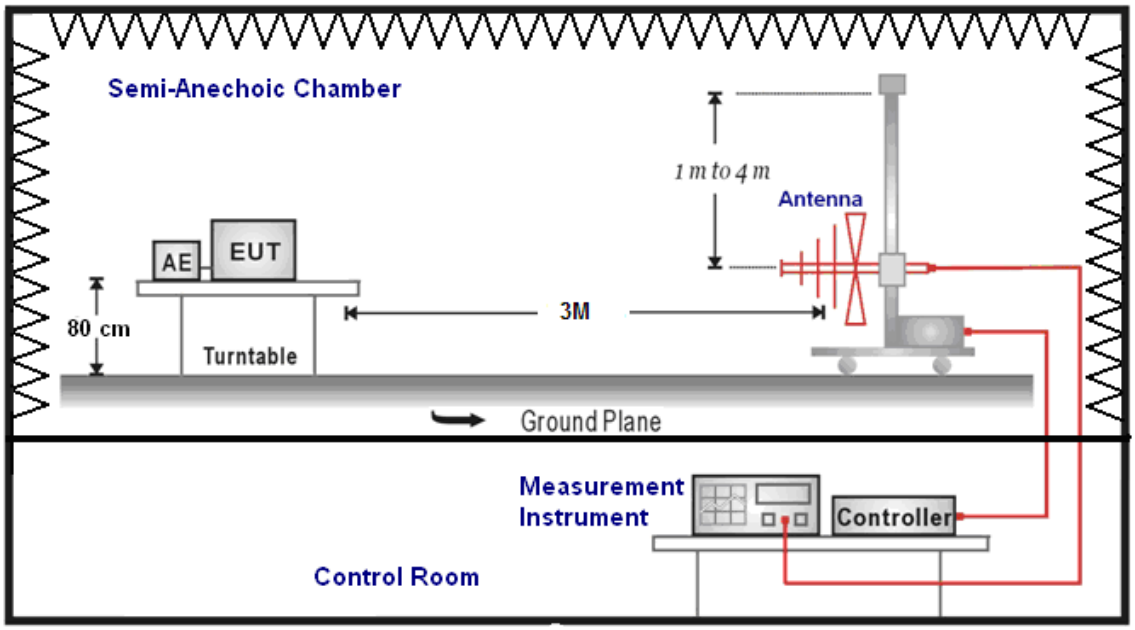
Note: N.C.R. = No Calibration Request.

4.3. Setup

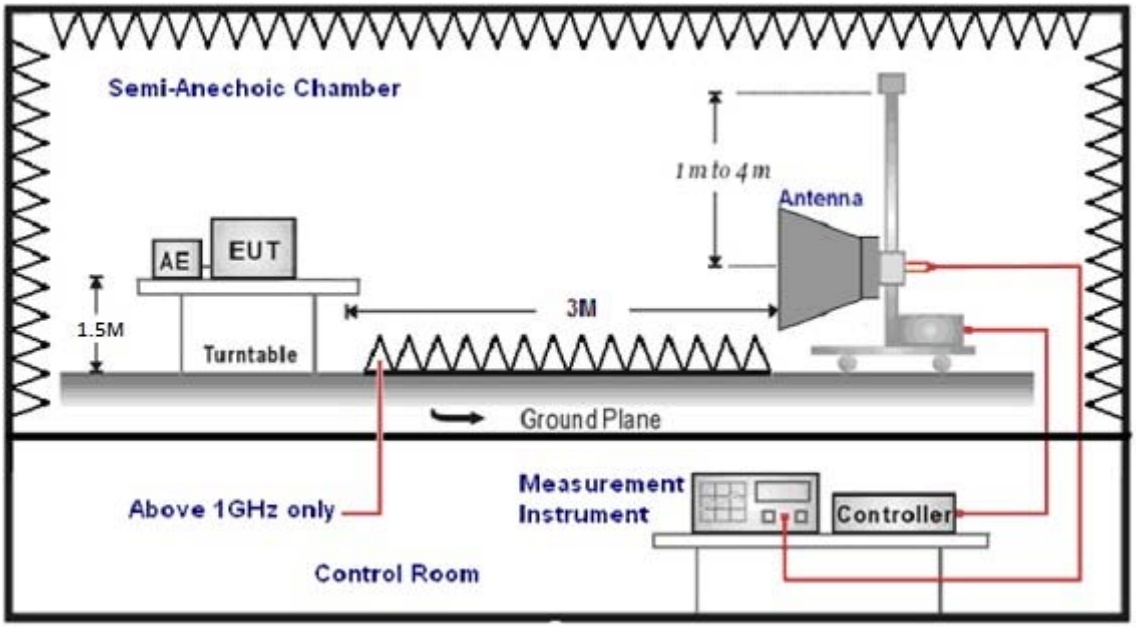
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz


Semi-Anechoic Chamber
1m to 4m
Antenna
AE
EUT
1.5M
Turntable
3M
Ground Plane
Above 1GHz only
Measurement
Instrument
Controller
Control Room

4.4. Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height(below 1GHz use 0.8m turntable / above 1GHz use 1.5m turntable), top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 40 GHz is investigated.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For restricted measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements when Duty cycle > 0.98 / 1/T for average measurements when Duty cycle < 0.98.

For out of band measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements.

A nonconductive material surrounded the EUT to supporting the EUT for standing on tree orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Trilog-Broadband Antenna (mode SB AC VULB) at 3 Meter and the ETS-Lindgren Double-Ridged Waveguide Horn antnna (model 3117) Schwarzbeck Mess-Elektronik Broadband Horn Antenna (BBHA 9170) was used in frequencies 1 – 40 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20dB/decade).

For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro colts per meter (dBuV/m).

The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)
FI= Reading of the field intensity.
AF= Antenna factor.
CL= Cable loss.
P.S Amplitude is auto calculate in spectrum analyzer.

(2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)
The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:
(a) For fundamental frequency : Transmitter Output < +30dBm
(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

Measuring Instruments and setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000MHz
Stop Frequency	40GHz
RBW/VBW(Emission in restricted band)	1MHz / 3MHz for Peak 1MHz / (1/T) for Average
RBW/VBW(Emission in non-restricted band)	1MHz / 3MHz for Peak

4.5. Test Result

Below 1GHz

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 1	Date:	05/11/2016
		Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
239.5000	38.31	-5.94	32.37	46.00	-13.63	QP	H
316.0000	29.75	-3.15	26.60	46.00	-19.40	QP	H
395.0000	36.38	-1.80	34.58	46.00	-11.42	QP	H
533.0000	26.44	1.22	27.66	46.00	-18.34	QP	H
650.0000	27.03	3.90	30.93	46.00	-15.07	QP	H
797.5000	30.57	6.65	37.22	46.00	-8.78	QP	H
199.5000	31.82	-7.80	24.02	43.50	-19.48	QP	V
399.0000	41.07	-1.72	39.35	46.00	-6.65	QP	V
530.0000	34.24	1.18	35.42	46.00	-10.58	QP	V
598.5000	32.00	2.88	34.88	46.00	-11.12	QP	V
643.5000	32.69	3.77	36.46	46.00	-9.54	QP	V
797.0000	28.12	6.64	34.76	46.00	-11.24	QP	V

Note: No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz).

Above 1GHz

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/12/2016
Frequency:	5180MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10360.000	42.15	5.21	47.36	68.20	-20.84	peak	H
10360.000	41.72	5.21	46.93	68.20	-21.27	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/12/2016
Frequency:	5200MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10400.000	42.78	5.33	48.11	68.20	-20.09	peak	H
10400.000	42.69	5.33	48.02	68.20	-20.18	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/12/2016
Frequency:	5240MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10480.000	43.77	5.55	49.32	68.20	-18.88	peak	H
10480.000	43.20	5.55	48.75	68.20	-19.45	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/12/2016
Frequency:	5260MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10520.000	44.05	5.64	49.69	68.20	-18.51	peak	H
10520.000	43.73	5.64	49.37	68.20	-18.83	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/12/2016
Frequency:	5280MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10560.000	45.18	5.68	50.86	68.20	-17.34	peak	H
10560.000	45.11	5.68	50.79	68.20	-17.41	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/12/2016
Frequency:	5320MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10640.000	45.33	5.78	51.11	74.00	-22.89	peak	H
10640.000	45.01	5.78	50.79	74.00	-23.21	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/12/2016
Frequency:	5500MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11000.000	44.49	6.18	50.67	74.00	-23.33	peak	H
11000.000	44.26	6.18	50.44	74.00	-23.56	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/12/2016
Frequency:	5560MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11120.000	45.14	6.24	51.38	74.00	-22.62	peak	H
11120.000	44.90	6.24	51.14	74.00	-22.86	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/12/2016
Frequency:	5700MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11400.000	44.77	6.39	51.16	74.00	-22.84	peak	H
11400.000	45.21	6.39	51.60	74.00	-22.40	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/12/2016
Frequency:	5745MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11490.000	45.22	6.44	51.66	74.00	-22.34	peak	H
11490.000	44.46	6.44	50.90	74.00	-23.10	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/12/2016
Frequency:	5785MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11570.000	44.83	6.63	51.46	74.00	-22.54	peak	H
11570.000	45.04	6.63	51.67	74.00	-22.33	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/12/2016
Frequency:	5825MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11650.000	44.45	6.85	51.30	74.00	-22.70	peak	H
11650.000	44.77	6.85	51.62	74.00	-22.38	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/12/2016
Frequency:	5180MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10360.000	43.41	5.21	48.62	68.20	-19.58	peak	H
10360.000	43.50	5.21	48.71	68.20	-19.49	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/12/2016
Frequency:	5200MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10400.000	44.59	5.33	49.92	68.20	-18.28	peak	H
10400.000	43.69	5.33	49.02	68.20	-19.18	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/12/2016
Frequency:	5240MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10480.000	44.27	5.55	49.82	68.20	-18.38	peak	H
10480.000	44.21	5.55	49.76	68.20	-18.44	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/12/2016
Frequency:	5260MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10520.000	44.64	5.64	50.28	68.20	-17.92	peak	H
10520.000	44.57	5.64	50.21	68.20	-17.99	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/12/2016
Frequency:	5280MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10560.000	44.42	5.68	50.10	68.20	-18.10	peak	H
10560.000	45.41	5.68	51.09	68.20	-17.11	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/12/2016
Frequency:	5320MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10640.000	45.58	5.78	51.36	74.00	-22.64	peak	H
10640.000	45.38	5.78	51.16	74.00	-22.84	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/12/2016
Frequency:	5500MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11000.000	45.11	6.18	51.29	74.00	-22.71	peak	H
11000.000	45.25	6.18	51.43	74.00	-22.57	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/12/2016
Frequency:	5560MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11120.000	45.01	6.24	51.25	74.00	-22.75	peak	H
11120.000	45.40	6.24	51.64	74.00	-22.36	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/12/2016
Frequency:	5700MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11400.000	44.83	6.39	51.22	74.00	-22.78	peak	H
11400.000	45.05	6.39	51.44	74.00	-22.56	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/12/2016
Frequency:	5745MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11490.000	45.05	6.44	51.49	74.00	-22.51	peak	H
11490.000	44.83	6.44	51.27	74.00	-22.73	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/12/2016
Frequency:	5785MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11570.000	44.17	6.63	50.80	74.00	-23.20	peak	H
11570.000	44.95	6.63	51.58	74.00	-22.42	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/12/2016
Frequency:	5825MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11650.000	43.62	6.85	50.47	74.00	-23.53	peak	H
11650.000	44.48	6.85	51.33	74.00	-22.67	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/12/2016
Frequency:	5190MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10380.000	43.89	5.27	49.16	68.20	-19.04	peak	H
10380.000	43.97	5.27	49.24	68.20	-18.96	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/12/2016
Frequency:	5230MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10460.000	43.68	5.50	49.18	68.20	-19.02	peak	H
10460.000	44.27	5.50	49.77	68.20	-18.43	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/12/2016
Frequency:	5270MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10540.000	44.86	5.66	50.52	68.20	-17.68	peak	H
10540.000	44.58	5.66	50.24	68.20	-17.96	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/12/2016
Frequency:	5310MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
10620.000	45.66	5.75	51.41	74.00	-22.59	peak	H
10620.000	45.44	5.75	51.19	74.00	-22.81	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/12/2016
Frequency:	5510MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11020.000	44.10	6.19	50.29	74.00	-23.71	peak	H
11020.000	45.23	6.19	51.42	74.00	-22.58	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/12/2016
Frequency:	5550MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11100.000	44.73	6.23	50.96	74.00	-23.04	peak	H
11100.000	45.17	6.23	51.40	74.00	-22.60	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/12/2016
Frequency:	5670MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11340.000	45.42	6.36	51.78	74.00	-22.22	peak	H
11340.000	45.15	6.36	51.51	74.00	-22.49	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/12/2016
Frequency:	5755MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11510.000	45.26	6.47	51.73	74.00	-22.27	peak	H
11510.000	44.82	6.47	51.29	74.00	-22.71	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/12/2016
Frequency:	5795MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
11590.000	43.76	6.69	50.45	74.00	-23.55	peak	H
11590.000	44.84	6.69	51.53	74.00	-22.47	peak	V

Band Edge

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/11/2016
Frequency:	5180 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4771.600	45.64	7.32	52.96	74.00	-21.04	peak	H
4771.600	36.32	7.32	43.64	54.00	-10.36	AVG	H
5150.000	43.09	8.29	51.38	74.00	-22.62	peak	H
5146.100	46.29	8.28	54.57	74.00	-19.43	peak	V
5146.100	35.97	8.28	44.25	54.00	-9.75	AVG	V
5150.000	47.57	8.29	55.86	74.00	-18.14	peak	V
5150.000	36.87	8.29	45.16	54.00	-8.84	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/11/2016
Frequency:	5320 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	43.17	8.50	51.67	74.00	-22.33	peak	H
5423.460	44.53	8.58	53.11	74.00	-20.89	peak	H
5423.460	35.08	8.58	43.66	54.00	-10.34	AVG	H
5350.000	49.84	8.50	58.34	74.00	-15.66	peak	V
5350.000	39.90	8.50	48.40	54.00	-5.60	AVG	V
5351.080	49.56	8.50	58.06	74.00	-15.94	peak	V
5351.080	38.61	8.50	47.11	54.00	-6.89	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/11/2016
Frequency:	5500 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5448.250	44.62	8.61	53.23	74.00	-20.77	peak	H
5448.250	34.76	8.61	43.37	54.00	-10.63	AVG	H
5460.000	42.41	8.62	51.03	74.00	-22.97	peak	H
5470.000	43.89	8.63	52.52	74.00	-21.48	peak	H
5406.100	45.85	8.56	54.41	74.00	-19.59	peak	V
5406.100	34.67	8.56	43.23	54.00	-10.77	AVG	V
5460.000	43.72	8.62	52.34	74.00	-21.66	peak	V
5460.000	34.66	8.62	43.28	54.00	-10.72	AVG	V
5470.000	48.09	8.63	56.72	74.00	-17.28	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/11/2016
Frequency:	5745 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5650.000	42.36	9.01	51.37	68.20	-16.83	peak	H
5700.000	48.15	9.13	57.28	105.20	-47.92	peak	H
5720.000	62.66	9.17	71.83	110.80	-38.97	peak	H
5725.000	70.46	9.19	79.65	122.20	-42.55	peak	H
5650.000	41.69	9.01	50.70	68.20	-17.50	peak	V
5700.000	49.38	9.13	58.51	105.20	-46.69	peak	V
5720.000	60.85	9.17	70.02	110.80	-40.78	peak	V
5725.000	72.20	9.19	81.39	122.20	-40.81	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 2	Date:	05/11/2016
Frequency:	5825 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5850.000	53.58	9.46	63.04	122.20	-59.16	peak	H
5855.000	49.43	9.48	58.91	110.80	-51.89	peak	H
5875.000	43.51	9.53	53.04	105.20	-52.16	peak	H
5925.000	42.55	9.65	52.20	68.20	-16.00	peak	H
5850.000	52.99	9.46	62.45	122.20	-59.75	peak	V
5855.000	48.64	9.48	58.12	110.80	-52.68	peak	V
5875.000	42.91	9.53	52.44	105.20	-52.76	peak	V
5925.000	41.75	9.65	51.40	68.20	-16.80	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/11/2016
Frequency:	5180 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
4945.900	44.62	7.93	52.55	74.00	-21.45	peak	H
4945.900	35.49	7.93	43.42	54.00	-10.58	AVG	H
5150.000	43.58	8.29	51.87	74.00	-22.13	peak	H
5108.300	45.47	8.24	53.71	74.00	-20.29	peak	V
5108.300	35.25	8.24	43.49	54.00	-10.51	AVG	V
5150.000	45.18	8.29	53.47	74.00	-20.53	peak	V
5150.000	35.26	8.29	43.55	54.00	-10.45	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/11/2016
Frequency:	5320 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	46.31	8.50	54.81	74.00	-19.19	peak	H
5350.000	35.08	8.50	43.58	54.00	-10.42	AVG	H
5350.520	46.34	8.50	54.84	74.00	-19.16	peak	H
5350.520	35.01	8.50	43.51	54.00	-10.49	AVG	H
5350.000	43.62	8.50	52.12	74.00	-21.88	peak	V
5350.000	34.81	8.50	43.31	54.00	-10.69	AVG	V
5425.140	44.93	8.59	53.52	74.00	-20.48	peak	V
5425.140	34.61	8.59	43.20	54.00	-10.80	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/11/2016
Frequency:	5500 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5427.400	46.20	8.59	54.79	74.00	-19.21	peak	H
5427.400	34.79	8.59	43.38	54.00	-10.62	AVG	H
5460.000	45.35	8.62	53.97	74.00	-20.03	peak	H
5460.000	35.41	8.62	44.03	54.00	-9.97	AVG	H
5470.000	51.10	8.63	59.73	74.00	-14.27	peak	H
5382.850	44.94	8.54	53.48	74.00	-20.52	peak	V
5382.850	34.86	8.54	43.40	54.00	-10.60	AVG	V
5460.000	41.93	8.62	50.55	74.00	-23.45	peak	V
5470.000	42.42	8.63	51.05	74.00	-22.95	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/11/2016
Frequency:	5745 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5650.000	42.40	9.01	51.41	68.20	-16.79	peak	H
5700.000	45.49	9.13	54.62	105.20	-50.58	peak	H
5720.000	56.36	9.17	65.53	110.80	-45.27	peak	H
5725.000	65.87	9.19	75.06	122.20	-47.14	peak	H
5650.000	41.74	9.01	50.75	68.20	-17.45	peak	V
5700.000	44.18	9.13	53.31	105.20	-51.89	peak	V
5720.000	56.09	9.17	65.26	110.80	-45.54	peak	V
5725.000	67.82	9.19	77.01	122.20	-45.19	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 3	Date:	05/11/2016
Frequency:	5825 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5850.000	48.75	9.46	58.21	122.20	-63.99	peak	H
5855.000	44.20	9.48	53.68	110.80	-57.12	peak	H
5875.000	42.91	9.53	52.44	105.20	-52.76	peak	H
5925.000	42.46	9.65	52.11	68.20	-16.09	peak	H
5850.000	47.27	9.46	56.73	122.20	-65.47	peak	V
5855.000	43.34	9.48	52.82	110.80	-57.98	peak	V
5875.000	42.89	9.53	52.42	105.20	-52.78	peak	V
5925.000	42.09	9.65	51.74	68.20	-16.46	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/11/2016
Frequency:	5190 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5142.600	49.37	8.28	57.65	74.00	-16.35	peak	H
5142.600	37.97	8.28	46.25	54.00	-7.75	AVG	H
5150.000	49.02	8.29	57.31	74.00	-16.69	peak	H
5150.000	38.93	8.29	47.22	54.00	-6.78	AVG	H
4968.300	44.76	8.00	52.76	74.00	-21.24	peak	V
4968.300	35.39	8.00	43.39	54.00	-10.61	AVG	V
5150.000	44.35	8.29	52.64	74.00	-21.36	peak	V
5150.000	36.23	8.29	44.52	54.00	-9.48	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/11/2016
Frequency:	5310 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5350.000	52.17	8.50	60.67	74.00	-13.33	peak	H
5350.000	42.55	8.50	51.05	54.00	-2.95	AVG	H
5350.800	54.98	8.50	63.48	74.00	-10.52	peak	H
5350.800	42.32	8.50	50.82	54.00	-3.18	AVG	H
5350.000	45.13	8.50	53.63	74.00	-20.37	peak	V
5350.000	35.97	8.50	44.47	54.00	-9.53	AVG	V
5354.720	47.77	8.51	56.28	74.00	-17.72	peak	V
5354.720	35.08	8.51	43.59	54.00	-10.41	AVG	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/11/2016
Frequency:	5510 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5459.050	53.97	8.62	62.59	74.00	-11.41	peak	H
5459.050	39.88	8.62	48.50	54.00	-5.50	AVG	H
5460.000	51.29	8.62	59.91	74.00	-14.09	peak	H
5460.000	40.50	8.62	49.12	54.00	-4.88	AVG	H
5470.000	56.27	8.63	64.90	74.00	-9.10	peak	H
5447.650	44.90	8.61	53.51	74.00	-20.49	peak	V
5447.650	35.02	8.61	43.63	54.00	-10.37	AVG	V
5460.000	44.37	8.62	52.99	74.00	-21.01	peak	V
5460.000	35.53	8.62	44.15	54.00	-9.85	AVG	V
5470.000	47.37	8.63	56.00	74.00	-18.00	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/11/2016
Frequency:	5755 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5650.000	44.52	9.01	53.53	68.20	-14.67	peak	H
5700.000	50.40	9.13	59.53	105.20	-45.67	peak	H
5720.000	63.82	9.17	72.99	110.80	-37.81	peak	H
5725.000	66.15	9.19	75.34	122.20	-46.86	peak	H
5650.000	43.97	9.01	52.98	68.20	-15.22	peak	V
5700.000	48.31	9.13	57.44	105.20	-47.76	peak	V
5720.000	61.45	9.17	70.62	110.80	-40.18	peak	V
5725.000	63.52	9.19	72.71	122.20	-49.49	peak	V

Standard:	FCC Part 15E	Test Distance:	3m
Test item:	Radiated Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(℃)/Hum.(%RH):	26(℃)/60%RH
Test Mode:	Mode 4	Date:	05/11/2016
Frequency:	5795 MHz	Test By:	Eric Ou Yang

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Polar. H / V
5850.000	45.34	9.46	54.80	122.20	-67.40	peak	H
5855.000	43.08	9.48	52.56	110.80	-58.24	peak	H
5875.000	42.92	9.53	52.45	105.20	-52.75	peak	H
5925.000	42.83	9.65	52.48	68.20	-15.72	peak	H
5850.000	44.70	9.46	54.16	122.20	-68.04	peak	V
5855.000	44.74	9.48	54.22	110.80	-56.58	peak	V
5875.000	44.02	9.53	53.55	105.20	-51.65	peak	V
5925.000	43.11	9.65	52.76	68.20	-15.44	peak	V

5 Antenna Requirement

5.1. Limit

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.
And According to 15.407 (a), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

5.2. Antenna Connector Construction

The antenna used in this product is listed below.

Manufacturer	Model Number	Type	Max. Gain
HWA SUNG ELECOM CO., LTD.	CSA3A022Z	PIFA Antenna	U-NII Band I: 3.40 dBi U-NII Band II-A: 3.40 dBi U-NII Band II-C: 1.36 dBi U-NII Band III: 2.62 dBi