

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 : Nov. 25, 2015
Test Period : Nov. 27 ~ Dec. 06, 2015
Issue Date : Dec. 15, 2015

Issue by

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

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Revision History

Rev.	Issue Date	Revisions	Revised By
00	Dec. 15, 2015	Initial Issue	

Verification of Compliance

Issued Date: 12/15/2015

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.

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<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	Item	Result	Remark
FCC			
15.407(b)(6) 15.207	AC Power Conducted Emission	PASS	---
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 device is module: CAPRICA2L Adding new type antenna to do Class II Permissive Change report so it only test Conducted Emission, Transmitter Radiated Emissions and Band Edge Measurement.

1.2. Measurement Uncertainty

Measurement Item	Frequency Range		Uncertainty (dB)
Conducted Emission	9kHz ~ 30MHz		± 2.020
Radiated Emission	30MHz ~ 1000MHz	Horizontal	± 3.960
		Vertical	± 3.570
	1000MHz ~ 18000MHz	Horizontal	± 3.072
		Vertical	± 3.028
	18000MHz ~ 40000MHz	Horizontal	± 3.622
		Vertical	± 3.506

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
	SUNG NAM ELECTRONICS(SHENZHEN)CO., LTD.	CSA3A020Z	Dipole Antenna	U-NII Band I: 1.57 dBi U-NII Band II-A: 2.79 dBi U-NII Band II-C: 2.12 dBi U-NII Band III: 2.59 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.

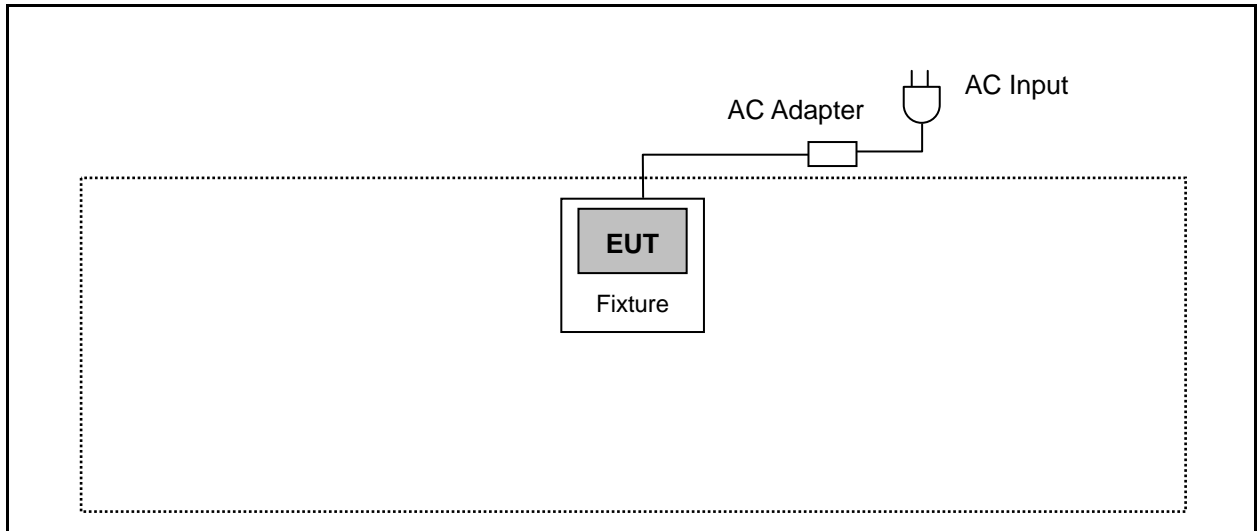
According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

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.

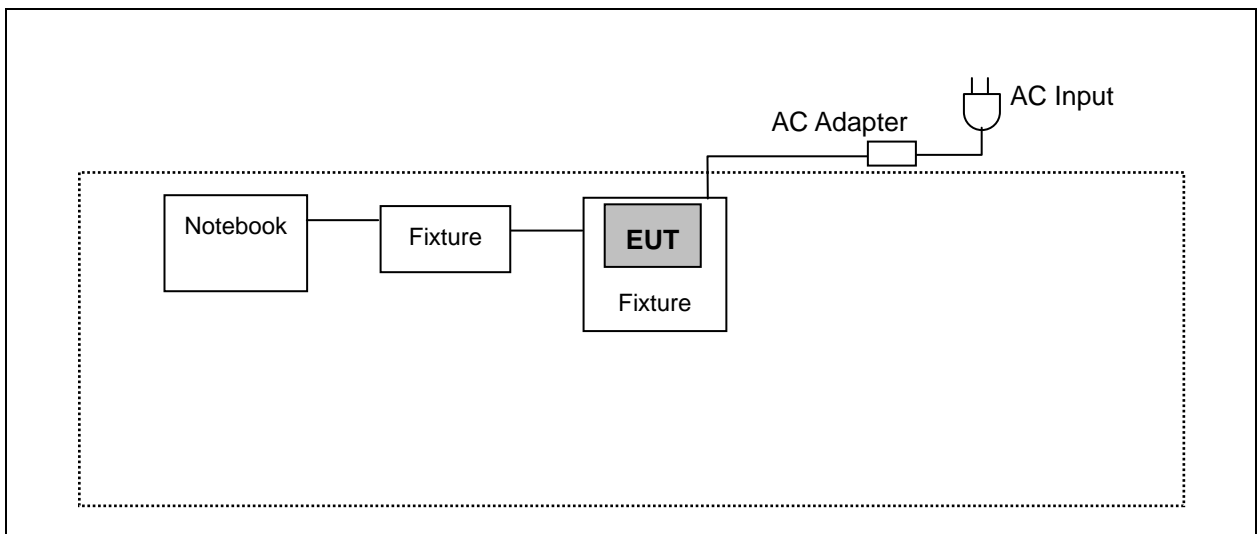
Measurement Software	
1	EZ-EMC Ver. ATL-03A1-1
2	EZ-EMC Ver ATL-ITC-3A1-1

3.3. Configuration of Test System Details

Conducted Emissions



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 AC Power Conducted Emission Measurement

4.1. Limit

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

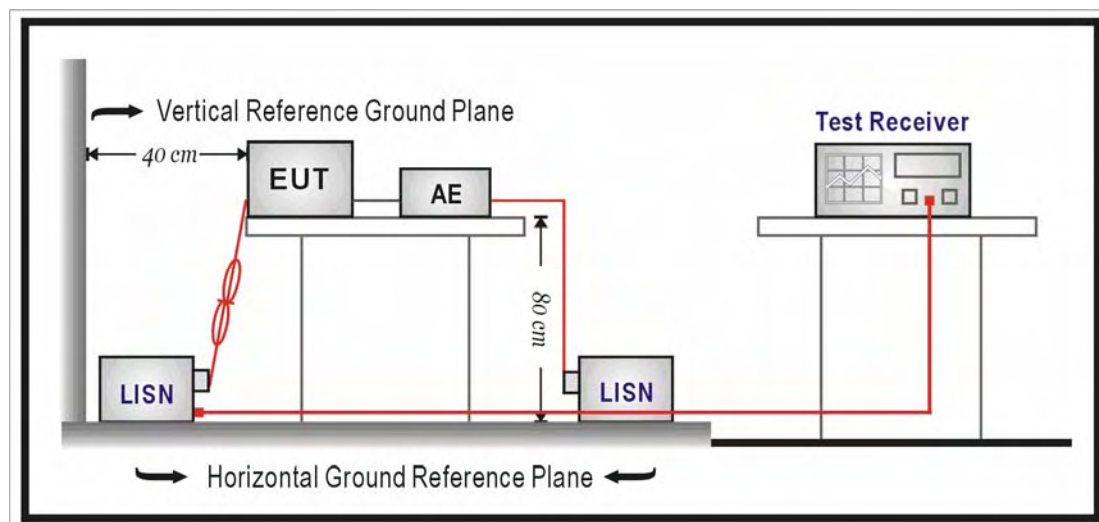
4.2. Test Instruments

Describe	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
Test Receiver	R&S	ESCI	100367	06/25/2015	(1)
LISN	R&S	ENV216	101040	03/10/2015	(1)
LISN	R&S	ENV216	101041	03/06/2015	(1)
Test Site	ATL	TE05	TE05	N.C.R.	-----

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

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

4.3. Test Setup



4.4. Test Procedure

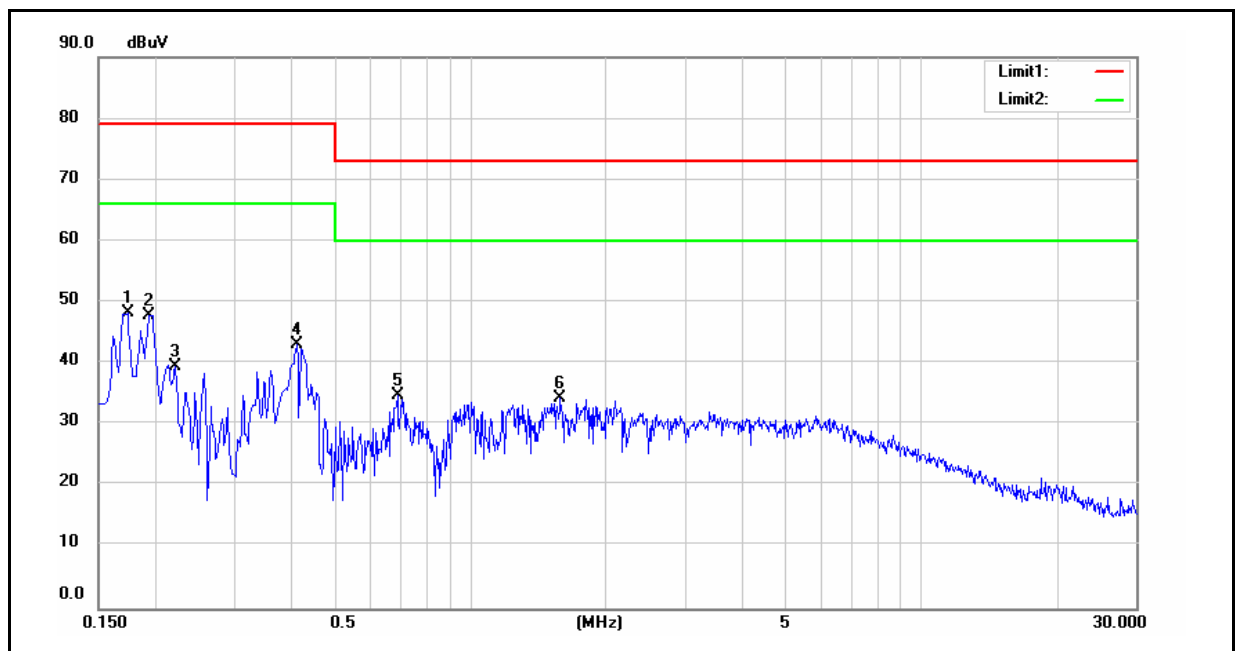
The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3162/2 SH Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 4.1.

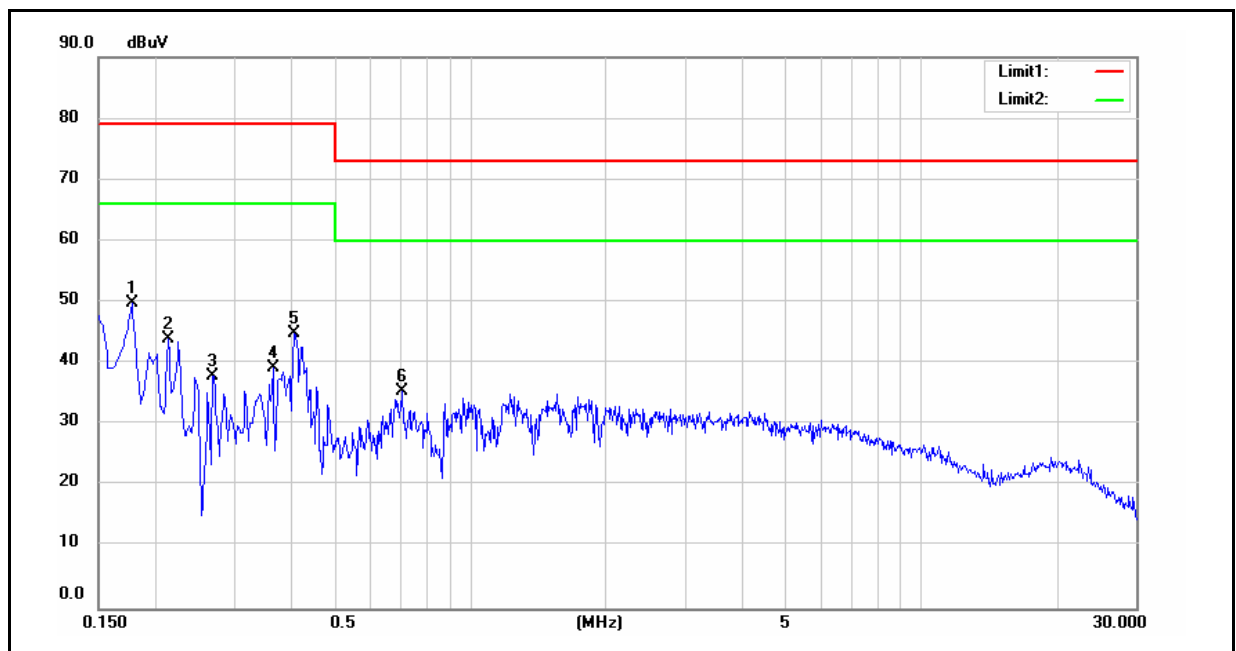
4.5. Test Result

Standard:	FCC Part 15E	Line:	L1
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Test Mode:	Mode 1	Date:	11/27/2015
		Test By:	Eric Ou Yang
Description:			



No.	Frequency (MHz)	QP reading (dBμV)	AVG reading (dBμV)	Correction factor (dB)	QP result (dBμV)	AVG result (dBμV)	QP limit (dBμV)	AVG limit (dBμV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1740	35.97	20.39	9.69	45.66	30.08	79.00	66.00	-33.34	-35.92	Pass
2	0.1940	34.28	21.31	9.68	43.96	30.99	79.00	66.00	-35.04	-35.01	Pass
3	0.2220	29.10	18.70	9.68	38.78	28.38	79.00	66.00	-40.22	-37.62	Pass
4	0.4140	33.04	25.22	9.69	42.73	34.91	79.00	66.00	-36.27	-31.09	Pass
5	0.6900	21.93	13.82	9.71	31.64	23.53	73.00	60.00	-41.36	-36.47	Pass
6	1.5860	20.54	12.48	9.75	30.29	22.23	73.00	60.00	-42.71	-37.77	Pass

Standard:	FCC Part 15E	Line:	N
Test item:	Conducted Emission	Power:	AC 120V/60Hz
Model Number:	CAPRICA2L	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Test Mode:	Mode 1	Date:	11/27/2015
		Test By:	Eric Ou Yang
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1780	36.63	22.92	9.65	46.28	32.57	79.00	66.00	-32.72	-33.43	Pass
2	0.2140	30.94	19.90	9.65	40.59	29.55	79.00	66.00	-38.41	-36.45	Pass
3	0.2700	21.88	7.44	9.66	31.54	17.10	79.00	66.00	-47.46	-48.90	Pass
4	0.3660	26.63	17.74	9.66	36.29	27.40	79.00	66.00	-42.71	-38.60	Pass
5	0.4100	32.51	24.16	9.66	42.17	33.82	79.00	66.00	-36.83	-32.18	Pass
6	0.7100	22.65	14.76	9.68	32.33	24.44	73.00	60.00	-40.67	-35.56	Pass

5 Radiated Emission Measurement

5.1. Limit

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.

5.2. Test Instruments

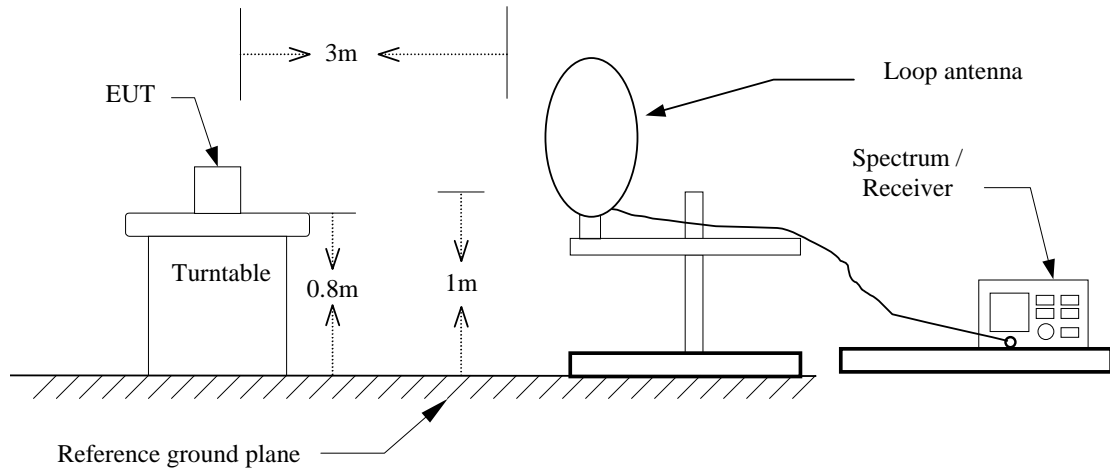
3 Meter Chamber					
Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Remark
RF Pre-selector	Agilent	N9039A	MY46520256	01/06/2015	(1)
Spectrum Analyzer	Agilent	E4446A	MY46180578	01/06/2015	(1)
Pre Amplifier	Agilent	8449B	3008A02237	02/24/2015	(1)
Pre Amplifier	Agilent	8447D	2944A10961	02/24/2015	(1)
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	08/11/2015	(1)
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	06/12/2015	(1)
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	07/06/2015	(1)
Test Site	ATL	TE01	888001	08/27/2015	(1)

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

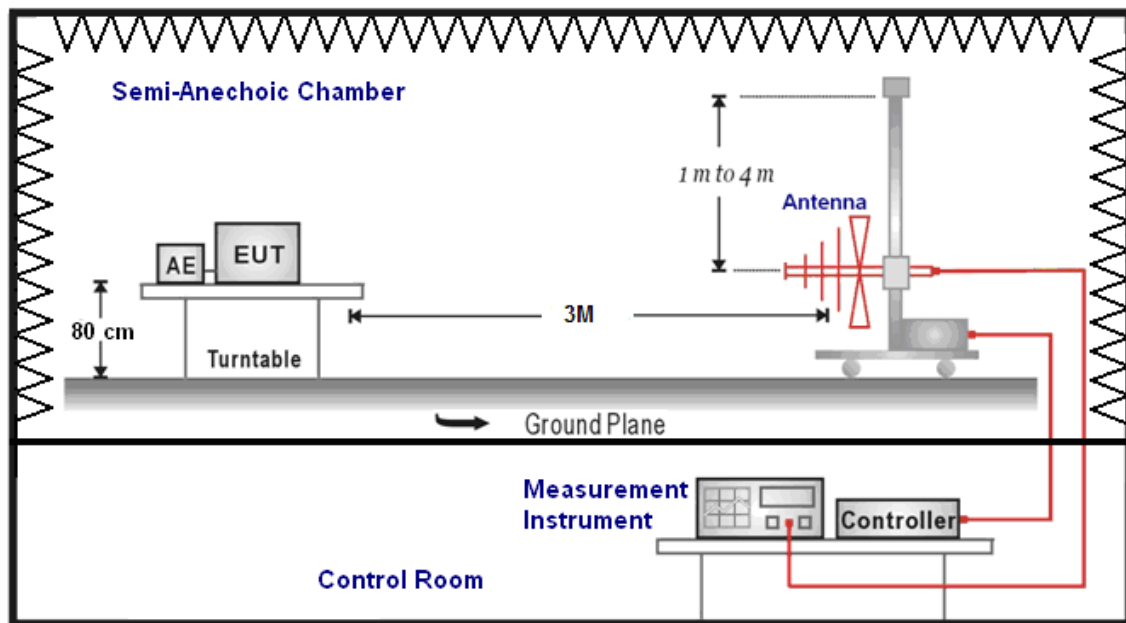
Note: N.C.R. = No Calibration Request.

5.3. Setup

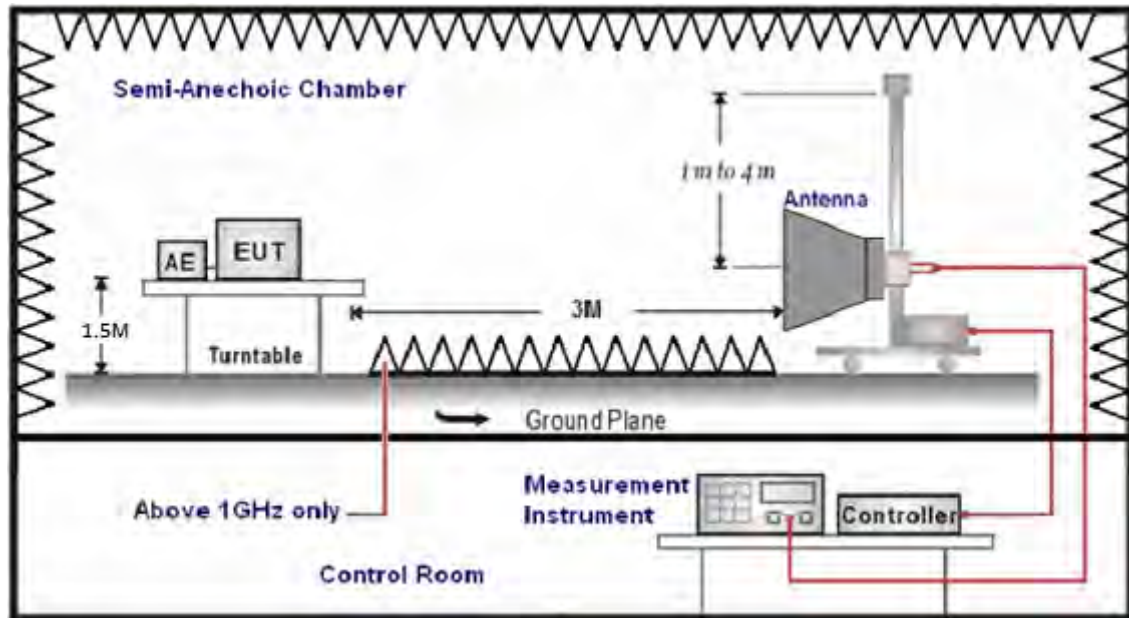
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1GHz



5.4. 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 three 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 antenna (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 per meter (uV/m).

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

The actual field 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) $\text{Amplitude (dBuV/m)} = \text{FI (dBuV)} + \text{AF (dBuV)} + \text{CL (dBuV)} - \text{Gain (dB)}$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

(2) $\text{Actual Amplitude (dBuV/m)} = \text{Amplitude (dBuV)} - \text{Dis (dB)}$

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

5.5. Test Result

Below 1GHz

Standard:		FCC Part 15E		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 1		Date:		12/06/2015	
				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
220.0000	31.65	-12.46	19.19	46.00	-26.81	QP	H
401.0000	38.92	-7.24	31.68	46.00	-14.32	QP	H
513.5000	39.70	-5.01	34.69	46.00	-11.31	QP	H
677.0000	32.09	-1.75	30.34	46.00	-15.66	QP	H
798.5000	30.77	0.52	31.29	46.00	-14.71	QP	H
874.0000	27.35	2.17	29.52	46.00	-16.48	QP	H
199.0000	37.36	-13.71	23.65	43.50	-19.85	QP	V
360.0000	36.69	-8.08	28.61	46.00	-17.39	QP	V
429.5000	43.27	-6.63	36.64	46.00	-9.36	QP	V
501.0000	41.13	-5.30	35.83	46.00	-10.17	QP	V
674.5000	33.29	-1.81	31.48	46.00	-14.52	QP	V
796.5000	36.47	0.49	36.96	46.00	-9.04	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.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	12/06/2015		
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
2827.000	33.38	0.88	34.26	74.00	-39.74	peak	H
4577.000	27.66	6.59	34.25	74.00	-39.75	peak	H
7650.000	27.96	14.30	42.26	74.00	-31.74	peak	H
2827.000	31.69	0.88	32.57	74.00	-41.43	peak	V
4633.000	27.19	6.79	33.98	74.00	-40.02	peak	V
7643.000	28.05	14.29	42.34	74.00	-31.66	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	12/06/2015		
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
2813.000	34.70	0.85	35.55	74.00	-38.45	peak	H
4570.000	31.23	6.57	37.80	74.00	-36.20	peak	H
7643.000	29.36	14.29	43.65	74.00	-30.35	peak	H
2827.000	33.30	0.88	34.18	74.00	-39.82	peak	V
4598.000	27.38	6.67	34.05	74.00	-39.95	peak	V
7643.000	30.91	14.29	45.20	74.00	-28.80	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 2			Date:	12/06/2015		
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
2785.000	36.23	0.78	37.01	74.00	-36.99	peak	H
4591.000	31.59	6.64	38.23	74.00	-35.77	peak	H
7650.000	30.91	14.30	45.21	74.00	-28.79	peak	H
2841.000	37.74	0.93	38.67	74.00	-35.33	peak	V
4269.000	31.17	5.78	36.95	74.00	-37.05	peak	V
7545.000	30.99	14.15	45.14	74.00	-28.86	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	12/06/2015		
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
2813.000	34.41	0.85	35.26	74.00	-38.74	peak	H
4290.000	29.89	5.84	35.73	74.00	-38.27	peak	H
7629.000	31.20	14.27	45.47	74.00	-28.53	peak	H
2806.000	35.38	0.83	36.21	74.00	-37.79	peak	V
4619.000	31.04	6.74	37.78	74.00	-36.22	peak	V
7671.000	29.89	14.34	44.23	74.00	-29.77	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:	12/06/2015		
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
2785.000	36.35	0.78	37.13	74.00	-36.87	peak	H
4619.000	30.25	6.74	36.99	74.00	-37.01	peak	H
7622.000	30.15	14.27	44.42	74.00	-29.58	peak	H
2827.000	34.01	0.88	34.89	74.00	-39.11	peak	V
4297.000	30.87	5.86	36.73	74.00	-37.27	peak	V
7594.000	30.10	14.22	44.32	74.00	-29.68	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	12/06/2015		
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
2785.000	35.50	0.78	36.28	74.00	-37.72	peak	H
4605.000	31.37	6.69	38.06	74.00	-35.94	peak	H
7671.000	30.35	14.34	44.69	74.00	-29.31	peak	H
2771.000	35.75	0.75	36.50	74.00	-37.50	peak	V
4661.000	29.92	6.89	36.81	74.00	-37.19	peak	V
7594.000	31.56	14.22	45.78	74.00	-28.22	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:	12/06/2015		
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
2785.000	35.43	0.78	36.21	74.00	-37.79	peak	H
4626.000	30.80	6.77	37.57	74.00	-36.43	peak	H
7615.000	29.66	14.26	43.92	74.00	-30.08	peak	H
2799.000	34.54	0.82	35.36	74.00	-38.64	peak	V
4598.000	30.80	6.67	37.47	74.00	-36.53	peak	V
7629.000	30.32	14.27	44.59	74.00	-29.41	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	12/06/2015		
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
2799.000	36.02	0.82	36.84	74.00	-37.16	peak	H
4619.000	30.29	6.74	37.03	74.00	-36.97	peak	H
7650.000	30.50	14.30	44.80	74.00	-29.20	peak	H
2785.000	36.07	0.78	36.85	74.00	-37.15	peak	V
4570.000	29.80	6.57	36.37	74.00	-37.63	peak	V
7615.000	29.78	14.26	44.04	74.00	-29.96	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 2			Date:	12/06/2015		
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
2778.000	35.61	0.76	36.37	74.00	-37.63	peak	H
4591.000	32.41	6.64	39.05	74.00	-34.95	peak	H
7615.000	28.80	14.26	43.06	74.00	-30.94	peak	H
2806.000	35.36	0.83	36.19	74.00	-37.81	peak	V
4591.000	31.24	6.64	37.88	74.00	-36.12	peak	V
7678.000	30.16	14.35	44.51	74.00	-29.49	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	12/06/2015		
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
3030.000	35.37	1.46	36.83	74.00	-37.17	peak	H
4605.000	30.42	6.69	37.11	74.00	-36.89	peak	H
6726.000	31.15	12.09	43.24	74.00	-30.76	peak	H
3037.000	36.26	1.48	37.74	74.00	-36.26	peak	V
4633.000	31.96	6.79	38.75	74.00	-35.25	peak	V
6677.000	32.22	11.97	44.19	74.00	-29.81	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:	12/06/2015		
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
3037.000	35.44	1.48	36.92	74.00	-37.08	peak	H
4598.000	29.57	6.67	36.24	74.00	-37.76	peak	H
6698.000	30.78	12.02	42.80	74.00	-31.20	peak	H
3051.000	35.13	1.55	36.68	74.00	-37.32	peak	V
4626.000	31.03	6.77	37.80	74.00	-36.20	peak	V
6719.000	31.97	12.07	44.04	74.00	-29.96	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 2			Date:	12/06/2015		
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
2967.000	36.38	1.23	37.61	74.00	-36.39	peak	H
4647.000	30.59	6.83	37.42	74.00	-36.58	peak	H
6705.000	31.37	12.04	43.41	74.00	-30.59	peak	H
3079.000	36.31	1.68	37.99	74.00	-36.01	peak	V
4619.000	32.33	6.74	39.07	74.00	-34.93	peak	V
6691.000	29.76	12.00	41.76	74.00	-32.24	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:	12/06/2015		
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
2785.000	36.72	0.78	37.50	74.00	-36.50	peak	H
4633.000	30.62	6.79	37.41	74.00	-36.59	peak	H
7657.000	28.97	14.32	43.29	74.00	-30.71	peak	H
2785.000	35.46	0.78	36.24	74.00	-37.76	peak	V
4570.000	30.74	6.57	37.31	74.00	-36.69	peak	V
7629.000	28.70	14.27	42.97	74.00	-31.03	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	12/06/2015		
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
2778.000	34.62	0.76	35.38	74.00	-38.62	peak	H
4591.000	29.21	6.64	35.85	74.00	-38.15	peak	H
7643.000	28.27	14.29	42.56	74.00	-31.44	peak	H
2799.000	35.19	0.82	36.01	74.00	-37.99	peak	V
4577.000	29.99	6.59	36.58	74.00	-37.42	peak	V
7615.000	28.86	14.26	43.12	74.00	-30.88	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:	12/06/2015		
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
2785.000	36.16	0.78	36.94	74.00	-37.06	peak	H
4598.000	28.61	6.67	35.28	74.00	-38.72	peak	H
7650.000	28.74	14.30	43.04	74.00	-30.96	peak	H
2785.000	37.11	0.78	37.89	74.00	-36.11	peak	V
4269.000	32.02	5.78	37.80	74.00	-36.20	peak	V
7643.000	30.61	14.29	44.90	74.00	-29.10	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	12/06/2015		
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
2771.000	36.30	0.75	37.05	74.00	-36.95	peak	H
4619.000	30.92	6.74	37.66	74.00	-36.34	peak	H
7650.000	31.67	14.30	45.97	74.00	-28.03	peak	H
2827.000	34.70	0.88	35.58	74.00	-38.42	peak	V
4563.000	30.01	6.55	36.56	74.00	-37.44	peak	V
7622.000	28.96	14.27	43.23	74.00	-30.77	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:	12/06/2015		
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
2785.000	35.94	0.78	36.72	74.00	-37.28	peak	H
4626.000	29.64	6.77	36.41	74.00	-37.59	peak	H
7643.000	29.64	14.29	43.93	74.00	-30.07	peak	H
2729.000	35.06	0.65	35.71	74.00	-38.29	peak	V
4591.000	31.34	6.64	37.98	74.00	-36.02	peak	V
7587.000	32.06	14.21	46.27	74.00	-27.73	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	12/06/2015		
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
2778.000	35.98	0.76	36.74	74.00	-37.26	peak	H
4605.000	31.41	6.69	38.10	74.00	-35.90	peak	H
7685.000	28.68	14.36	43.04	74.00	-30.96	peak	H
2813.000	34.95	0.85	35.80	74.00	-38.20	peak	V
4626.000	30.04	6.77	36.81	74.00	-37.19	peak	V
7643.000	29.76	14.29	44.05	74.00	-29.95	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:	12/06/2015		
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
2799.000	35.13	0.82	35.95	74.00	-38.05	peak	H
4598.000	29.41	6.67	36.08	74.00	-37.92	peak	H
7678.000	29.56	14.35	43.91	74.00	-30.09	peak	H
2806.000	36.10	0.83	36.93	74.00	-37.07	peak	V
4577.000	30.53	6.59	37.12	74.00	-36.88	peak	V
7629.000	30.47	14.27	44.74	74.00	-29.26	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	12/06/2015		
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
2785.000	35.58	0.78	36.36	74.00	-37.64	peak	H
4591.000	31.21	6.64	37.85	74.00	-36.15	peak	H
7629.000	29.84	14.27	44.11	74.00	-29.89	peak	H
2799.000	36.62	0.82	37.44	74.00	-36.56	peak	V
4619.000	31.18	6.74	37.92	74.00	-36.08	peak	V
7678.000	30.85	14.35	45.20	74.00	-28.80	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:	12/06/2015		
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
2806.000	35.77	0.83	36.60	74.00	-37.40	peak	H
4598.000	31.37	6.67	38.04	74.00	-35.96	peak	H
7622.000	30.36	14.27	44.63	74.00	-29.37	peak	H
2806.000	37.15	0.83	37.98	74.00	-36.02	peak	V
4591.000	29.79	6.64	36.43	74.00	-37.57	peak	V
7615.000	29.24	14.26	43.50	74.00	-30.50	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	12/06/2015		
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
3037.000	35.52	1.48	37.00	74.00	-37.00	peak	H
4605.000	30.86	6.69	37.55	74.00	-36.45	peak	H
6719.000	31.72	12.07	43.79	74.00	-30.21	peak	H
3023.000	34.15	1.42	35.57	74.00	-38.43	peak	V
4591.000	30.92	6.64	37.56	74.00	-36.44	peak	V
6705.000	32.31	12.04	44.35	74.00	-29.65	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	12/06/2015		
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
3009.000	35.09	1.35	36.44	74.00	-37.56	peak	H
4619.000	31.39	6.74	38.13	74.00	-35.87	peak	H
6691.000	31.96	12.00	43.96	74.00	-30.04	peak	H
3058.000	34.58	1.58	36.16	74.00	-37.84	peak	V
4661.000	29.49	6.89	36.38	74.00	-37.62	peak	V
6775.000	31.22	12.20	43.42	74.00	-30.58	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	12/06/2015		
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
3009.000	33.95	1.35	35.30	74.00	-38.70	peak	H
4619.000	29.85	6.74	36.59	74.00	-37.41	peak	H
6733.000	30.68	12.11	42.79	74.00	-31.21	peak	H
3037.000	36.10	1.48	37.58	74.00	-36.42	peak	V
4605.000	31.50	6.69	38.19	74.00	-35.81	peak	V
6691.000	32.43	12.00	44.43	74.00	-29.57	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	12/06/2015		
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
2806.000	35.85	0.83	36.68	74.00	-37.32	peak	H
4577.000	31.50	6.59	38.09	74.00	-35.91	peak	H
7601.000	27.08	14.23	41.31	74.00	-32.69	peak	H
2806.000	35.68	0.83	36.51	74.00	-37.49	peak	V
4577.000	30.50	6.59	37.09	74.00	-36.91	peak	V
7657.000	30.99	14.32	45.31	74.00	-28.69	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	12/06/2015		
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
2806.000	36.04	0.83	36.87	74.00	-37.13	peak	H
4619.000	30.36	6.74	37.10	74.00	-36.90	peak	H
7622.000	30.99	14.27	45.26	74.00	-28.74	peak	H
2799.000	36.37	0.82	37.19	74.00	-36.81	peak	V
4591.000	29.56	6.64	36.20	74.00	-37.80	peak	V
7671.000	30.79	14.34	45.13	74.00	-28.87	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	12/06/2015		
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
2813.000	36.09	0.85	36.94	74.00	-37.06	peak	H
4598.000	31.29	6.67	37.96	74.00	-36.04	peak	H
7398.000	29.88	13.81	43.69	74.00	-30.31	peak	H
2799.000	36.97	0.82	37.79	74.00	-36.21	peak	V
4297.000	32.16	5.86	38.02	74.00	-35.98	peak	V
7349.000	28.97	13.68	42.65	74.00	-31.35	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	12/06/2015		
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
2813.000	36.48	0.85	37.33	74.00	-36.67	peak	H
4598.000	31.69	6.67	38.36	74.00	-35.64	peak	H
7643.000	30.88	14.29	45.17	74.00	-28.83	peak	H
2827.000	36.02	0.88	36.90	74.00	-37.10	peak	V
4647.000	30.86	6.83	37.69	74.00	-36.31	peak	V
7622.000	32.14	14.27	46.41	74.00	-27.59	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:	12/06/2015		
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
2757.000	35.53	0.72	36.25	74.00	-37.75	peak	H
4605.000	31.18	6.69	37.87	74.00	-36.13	peak	H
7643.000	30.68	14.29	44.97	74.00	-29.03	peak	H
2771.000	36.70	0.75	37.45	74.00	-36.55	peak	V
4619.000	29.78	6.74	36.52	74.00	-37.48	peak	V
7643.000	30.65	14.29	44.94	74.00	-29.06	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	12/06/2015		
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
2813.000	34.90	0.85	35.75	74.00	-38.25	peak	H
4605.000	30.46	6.69	37.15	74.00	-36.85	peak	H
7671.000	28.28	14.34	42.62	74.00	-31.38	peak	H
2785.000	36.52	0.78	37.30	74.00	-36.70	peak	V
4605.000	32.78	6.69	39.47	74.00	-34.53	peak	V
7671.000	32.45	14.34	46.79	74.00	-27.21	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 4			Date:	12/06/2015		
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
2799.000	35.73	0.82	36.55	74.00	-37.45	peak	H
4633.000	31.00	6.79	37.79	74.00	-36.21	peak	H
7615.000	30.99	14.26	45.25	74.00	-28.75	peak	H
2806.000	36.56	0.83	37.39	74.00	-36.61	peak	V
4563.000	31.50	6.55	38.05	74.00	-35.95	peak	V
7699.000	30.23	14.38	44.61	74.00	-29.39	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	12/06/2015		
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
2995.000	35.95	1.30	37.25	74.00	-36.75	peak	H
4738.000	30.34	7.15	37.49	74.00	-36.51	peak	H
6495.000	29.76	11.54	41.30	74.00	-32.70	peak	H
2981.000	34.97	1.26	36.23	74.00	-37.77	peak	V
4626.000	29.67	6.77	36.44	74.00	-37.56	peak	V
6558.000	28.94	11.68	40.62	74.00	-33.38	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 4			Date:	12/06/2015		
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
3051.000	34.00	1.55	35.55	74.00	-38.45	peak	H
4563.000	30.62	6.55	37.17	74.00	-36.83	peak	H
6635.000	30.03	11.87	41.90	74.00	-32.10	peak	H
3037.000	35.30	1.48	36.78	74.00	-37.22	peak	V
4689.000	29.98	6.99	36.97	74.00	-37.03	peak	V
6726.000	31.56	12.09	43.65	74.00	-30.35	peak	V

Band Edge

Standard:		FCC Part 15E		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 2		Date:		12/04/2015	
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
5059.300	43.68	8.14	51.82	74.00	-22.18	peak	H
5150.000	41.45	8.25	49.70	74.00	-24.30	peak	H
5106.200	47.63	8.20	55.83	74.00	-18.17	peak	V
5106.200	39.61	8.20	47.81	54.00	-6.19	AVG	V
5150.000	48.95	8.25	57.20	74.00	-16.80	peak	V
5150.000	39.25	8.25	47.50	54.00	-6.50	AVG	V

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 2			Date:		12/04/2015	
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	41.15	8.49	49.64	74.00	-24.36	peak	H	
5384.120	43.90	8.53	52.43	74.00	-21.57	peak	H	
5384.120	34.80	8.53	43.33	54.00	-10.67	AVG	H	
5350.000	46.60	8.49	55.09	74.00	-18.91	peak	V	
5350.000	37.30	8.49	45.79	54.00	-8.21	AVG	V	
5352.760	46.17	8.49	54.66	74.00	-19.34	peak	V	
5352.760	36.12	8.49	44.61	54.00	-9.39	AVG	V	

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 2			Date:		12/04/2015	
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	
5416.600	43.76	8.56	52.32	74.00	-21.68	peak	H	
5416.600	35.01	8.56	43.57	54.00	-10.43	AVG	H	
5460.000	41.30	8.62	49.92	74.00	-24.08	peak	H	
5455.300	47.34	8.61	55.95	74.00	-18.05	peak	V	
5455.300	34.89	8.61	43.50	54.00	-10.50	AVG	V	
5460.000	43.11	8.62	51.73	74.00	-22.27	peak	V	

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 2			Date:		12/04/2015	
Frequency:		5745 MHz			Test By:		Eric Ou Yang	
Frequency	Reading	Correct Factor	Result	Limit	Margin	Remark	Ant.Polar.	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		H / V	
5715.000	42.70	9.16	51.86	68.20	-16.34	peak	H	
5725.000	50.57	9.19	59.76	78.20	-18.44	peak	H	
5715.000	54.14	9.16	63.30	68.20	-4.90	peak	V	
5725.000	66.27	9.19	75.46	78.20	-2.74	peak	V	

Standard:		FCC Part 15E		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 2		Date:		12/04/2015	
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	47.63	9.46	57.09	78.20	-21.11	peak	H
5860.000	42.78	9.48	52.26	68.20	-15.94	peak	H
5850.000	57.39	9.46	66.85	78.20	-11.35	peak	V
5860.000	49.14	9.48	58.62	68.20	-9.58	peak	V

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 3			Date:		12/04/2015	
Frequency:		5180 MHz			Test By:		Eric Ou Yang	
Frequency	Reading	Correct Factor	Result	Limit	Margin	Remark	Ant.Polar.	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		H / V	
4915.800	43.73	7.77	51.50	74.00	-22.50	peak	H	
5150.000	40.78	8.25	49.03	74.00	-24.97	peak	H	
5107.600	45.54	8.20	53.74	74.00	-20.26	peak	V	
5107.600	38.62	8.20	46.82	54.00	-7.18	AVG	V	
5150.000	45.41	8.25	53.66	74.00	-20.34	peak	V	
5150.000	37.14	8.25	45.39	54.00	-8.61	AVG	V	

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 3			Date:		12/04/2015	
Frequency:		5320 MHz			Test By:		Eric Ou Yang	
Frequency	Reading	Correct Factor	Result	Limit	Margin	Remark	Ant.Polar.	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		H / V	
5350.000	40.62	8.49	49.11	74.00	-24.89	peak	H	
5404.420	42.85	8.55	51.40	74.00	-22.60	peak	H	
5350.000	44.87	8.49	53.36	74.00	-20.64	peak	V	
5350.000	36.24	8.49	44.73	54.00	-9.27	AVG	V	
5351.780	45.50	8.49	53.99	74.00	-20.01	peak	V	
5351.780	35.65	8.49	44.14	54.00	-9.86	AVG	V	

Standard:		FCC Part 15E		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 3		Date:		12/04/2015	
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
5426.200	43.00	8.58	51.58	74.00	-22.42	peak	H
5460.000	41.21	8.62	49.83	74.00	-24.17	peak	H
5425.900	44.73	8.58	53.31	74.00	-20.69	peak	V
5425.900	36.15	8.58	44.73	54.00	-9.27	AVG	V
5460.000	41.98	8.62	50.60	74.00	-23.40	peak	V

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 3			Date:	12/04/2015		
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
5715.000	44.37	9.16	53.53	68.20	-14.67	peak	H
5725.000	48.04	9.19	57.23	78.20	-20.97	peak	H
5715.000	54.06	9.16	63.22	68.20	-4.98	peak	V
5725.000	63.38	9.19	72.57	78.20	-5.63	peak	V

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 3			Date:		12/04/2015	
Frequency:		5825 MHz			Test By:		Eric Ou Yang	
Frequency	Reading	Correct Factor	Result	Limit	Margin	Remark	Ant.Polar.	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		H / V	
5850.000	46.30	9.46	55.76	78.20	-22.44	peak	H	
5860.000	42.55	9.48	52.03	68.20	-16.17	peak	H	
5850.000	53.43	9.46	62.89	78.20	-15.31	peak	V	
5860.000	47.15	9.48	56.63	68.20	-11.57	peak	V	

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 4			Date:		12/04/2015	
Frequency:		5190 MHz			Test By:		Eric Ou Yang	
Frequency	Reading	Correct Factor	Result	Limit	Margin	Remark	Ant.Polar.	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		H / V	
4936.800	43.65	7.85	51.50	74.00	-22.50	peak	H	
5150.000	41.87	8.25	50.12	74.00	-23.88	peak	H	
5148.200	53.97	8.25	62.22	74.00	-11.78	peak	V	
5148.200	44.57	8.25	52.82	54.00	-1.18	AVG	V	
5150.000	55.26	8.25	63.51	74.00	-10.49	peak	V	
5150.000	44.86	8.25	53.11	54.00	-0.89	AVG	V	

Standard:	FCC Part 15E			Test Distance:	3m		
Test item:	Radiated Emission			Power:	AC 120V/60Hz		
Model Number:	CAPRICA2L			Temp.(°C)/Hum.(%RH):	26(°C)/60%RH		
Test Mode:	Mode 4			Date:	12/04/2015		
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	42.84	8.49	51.33	74.00	-22.67	peak	H
5351.360	46.57	8.49	55.06	74.00	-18.94	peak	H
5351.360	35.87	8.49	44.36	54.00	-9.64	AVG	H
5350.000	52.71	8.49	61.20	74.00	-12.80	peak	V
5350.000	44.18	8.49	52.67	54.00	-1.33	AVG	V
5351.780	53.24	8.49	61.73	74.00	-12.27	peak	V
5351.780	43.32	8.49	51.81	54.00	-2.19	AVG	V

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 4			Date:		12/04/2015	
Frequency:		5510 MHz			Test By:		Eric Ou Yang	
Frequency	Reading	Correct Factor	Result	Limit	Margin	Remark	Ant.Polar.	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		H / V	
5445.700	42.79	8.60	51.39	74.00	-22.61	peak	H	
5460.000	43.00	8.62	51.62	74.00	-22.38	peak	H	
5457.400	49.93	8.61	58.54	74.00	-15.46	peak	V	
5457.400	38.72	8.61	47.33	54.00	-6.67	AVG	V	
5460.000	52.04	8.62	60.66	74.00	-13.34	peak	V	
5460.000	40.63	8.62	49.25	54.00	-4.75	AVG	V	

Standard:		FCC Part 15E			Test Distance:		3m	
Test item:		Radiated Emission			Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L			Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 4			Date:		12/04/2015	
Frequency:		5755 MHz			Test By:		Eric Ou Yang	
Frequency	Reading	Correct Factor	Result	Limit	Margin	Remark	Ant.Polar.	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		H / V	
5715.000	46.96	9.16	56.12	68.20	-12.08	peak	H	
5725.000	48.70	9.19	57.89	78.20	-20.31	peak	H	
5712.960	57.90	9.16	67.06	68.20	-1.14	peak	V	
5715.000	57.04	9.16	66.20	68.20	-2.00	peak	V	
5725.000	62.78	9.19	71.97	78.20	-6.23	peak	V	

Standard:		FCC Part 15E		Test Distance:		3m	
Test item:		Radiated Emission		Power:		AC 120V/60Hz	
Model Number:		CAPRICA2L		Temp.(°C)/Hum.(%RH):		26(°C)/60%RH	
Test Mode:		Mode 4		Date:		12/04/2015	
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	43.39	9.46	52.85	78.20	-25.35	peak	H
5860.000	42.17	9.48	51.65	68.20	-16.55	peak	H
5850.000	47.29	9.46	56.75	78.20	-21.45	peak	V
5860.000	44.93	9.48	54.41	68.20	-13.79	peak	V

6 Antenna Requirement

6.1. 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.

6.2. Antenna Connector Construction

The antenna used in this product is listed below.

Manufacturer	Model Number	Type	Max. Gain
SUNG NAM ELECTRONICS(SHENZHEN) CO., LTD.	CSA3A020Z	Dipole Antenna (I-PEX Connector)	U-NII Band I: 1.57 dBi U-NII Band II-A: 2.79 dBi U-NII Band II-C: 2.12 dBi U-NII Band III: 2.59 dBi