



MEASUREMENT REPORT

FCC PART 15B

FCC ID: ROU00009

APPLICANT: Shenzhen KTC Technology Co., Ltd.

Application Type: Certification

Product: 8.0" PAD

Model No.: 800P31C, 800P**A, 800P**B, 800P**C, &&800*****

Brand Name: --

FCC Classification: FCC Class B Digital Device (JBP)

FCC Rule Part(s): FCC Part 15 Subpart B

Test Procedure(s): ANSI C63.4: 2009

Test Date: Sep. 03 ~ 24, 2014

Reviewed By : Robin Wu
(Robin Wu)

Approved By : Marlin Chen
(Marlin Chen)

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2009. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date
1408RSU03008	Rev. 01	Initial report	09-24-2014
1408RSU03008	Rev. 02	Corrected the Test Data	10-09-2014
1408RSU03008	Rev. 03	Corrected Detector	10-10-2014

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§2.1033 General Information

Applicant:	Shenzhen KTC Technology Co., Ltd.
Applicant Address:	Northern Wuhe Road, Gangtou, Buji, Longgang, Shenzhen, China
Manufacturer:	Shenzhen KTC Technology Co., Ltd.
Manufacturer Address:	Northern Wuhe Road, Gangtou, Buji, Longgang, Shenzhen, China
Test Site:	MRT Technology (Suzhou) Co., Ltd
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
MRT FCC Registration No.:	809388
Model No.:	800P31C, 800P**A, 800P**B, 800P**C, &&800*****
FCC ID:	ROU00009
Test Device Serial No.:	N/A ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification:	FCC Class B Digital Device (JBP)
Date(s) of Test:	Sep. 03 ~ 24, 2014
Test Report S/N:	1408RSU03008

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.
- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (11384A-1).
- MRT facility is an IC registered (11384A-1) test laboratory with the site description on file at Industry Canada.



1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	8.0" PAD
Model No.	800P31C, 800P**A, 800P**B, 800P**C, &&800*****
Wi-Fi	
Frequency Range	802.11b/g/n-HT20: 2412 ~ 2462 MHz 802.11n-HT40: 2422 ~ 2452 MHz
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 150 Mbps
Antenna Type	Internal
Antenna Gain	1.8dBi
Bluetooth	
Bluetooth Frequency	2402~2480MHz
Bluetooth Version	V4.0, V3.0+EDR
Type of modulation	FHSS
Data Rate	1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK)
Antenna Gain	1.8dBi
GPS	
GPS Frequency	1575.42MHz
Antenna Gain	1.8dBi
Components	
Adapter #1	Model: RJ-AS050200U108-B Input: 100-240V ~ 50/60Hz, 350mA Max Output: 5.0VDC, 1.0A
Adapter #2	Model: EP13F-050200WULA Input: 100-240V ~ 50/60Hz, 350mA Max Output: 5.0VDC, 2.0A

Note: For this test report has assessed two adapters, and showed the worst test result in test report.

2.2. Test Configuration

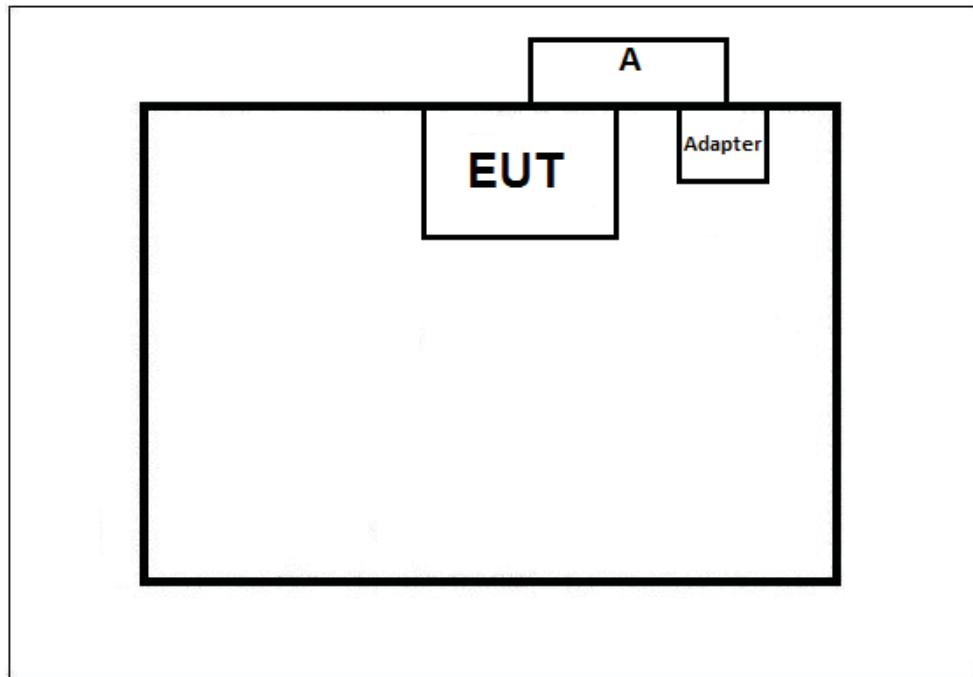
2.2.1. Test Mode

Test Mode	Mode 1: Charging + Camera On Mode 2: USB Copy
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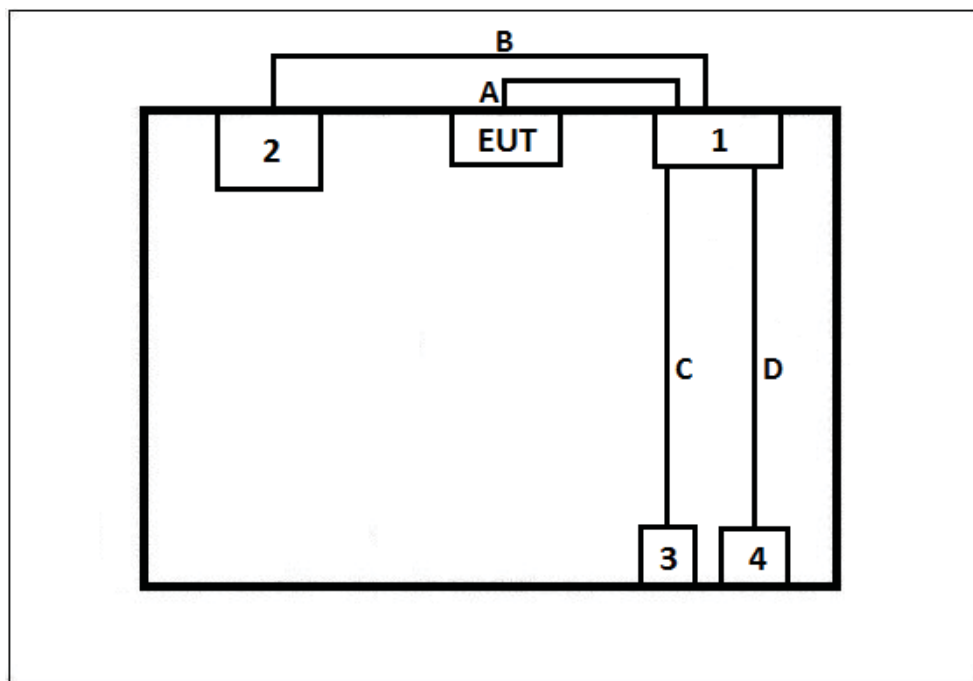
2.2.2. Configuration of Tested System

The **8.0" PAD FCC ID: ROU00009** was tested per the guidance FCC Part 15 Subpart B: 2014 and ANSI C63.4: 2009 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

Connection Diagram (Mode 1)



Connection Diagram (Mode 2)



Signal Cable Type		Signal cable Description
A	USB Cable	Shielding, 0.6m
B	VGA Cable	Shielding, 1.8m
C	USB Cable	Shielding, 1.8m
D	USB Cable	Shielding, 1.8m

2.2.3. Test System Details

Product		Manufacturer	Model No.	Power Cord
1	Notebook	Lenovo	E430C	Non-Shielded, 1.8m
2	LCD Monitor	DELL	IN1930C	Non-Shielded, 1.8m
3	USB Mouse	DELL	MS111-7	N/A
4	USB Keyboard	DELL	KB212-B	N/A

2.3. Test Software

Not applicable.

2.4. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.5. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(a)(5).

Please see attachment for FCC ID label and label location.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2009) was used in the measurement of the **8.0" PAD FCC ID: ROU00009**.

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50 Ω /50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2009 at Clause 4.3.

Line conducted emissions test results are shown in Section 6.2.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beamwidth of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	101209	1 year	2014/11/08
Two-Line V-Network	R&S	ENV216	101683	1 year	2014/11/08
Two-Line V-Network	R&S	ENV216	101684	1 year	2014/11/08
Temperature/ Meter Humidity	Anymetre	TH101B	SR2-01	1 year	2014/11/15

Radiated Emission

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9010A	MY5144016A	1 year	2015/01/04
Preamplifier	MRT	AP01G18	1310002	1 year	2014/10/07
TRILOG Antenna	Schwarzbeck	VULB9162	9162-047	1 year	2014/11/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	1 year	2014/11/24
Temperature/Humidity Meter	Anymetre	TH101B	AC1-01	1 year	2014/11/15

5. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Conducted Emissions Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 150kHz~30MHz: $\pm 3.46\text{dB}$
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 30MHz ~ 1GHz: $\pm 4.18\text{dB}$ 1GHz ~ 18GHz: $\pm 4.76\text{dB}$

6. TEST RESULT

6.1. Summary

Company Name: Shenzhen KTC Technology Co., Ltd.
FCC ID: ROU00009
FCC Classification: FCC Class B Digital Device (JBP)
Test Mode: Charging and Camera On;
USB Copy with Notebook

Normative References	Test Description	Test Result
FCC Part 15 Subpart B: 2014 ANSI C63.4: 2009	Conducted Emission	Pass
FCC Part 15 Subpart B: 2014 ANSI C63.4: 2009	Radiated Emission	Pass

6.2. Conducted Emission Measurement

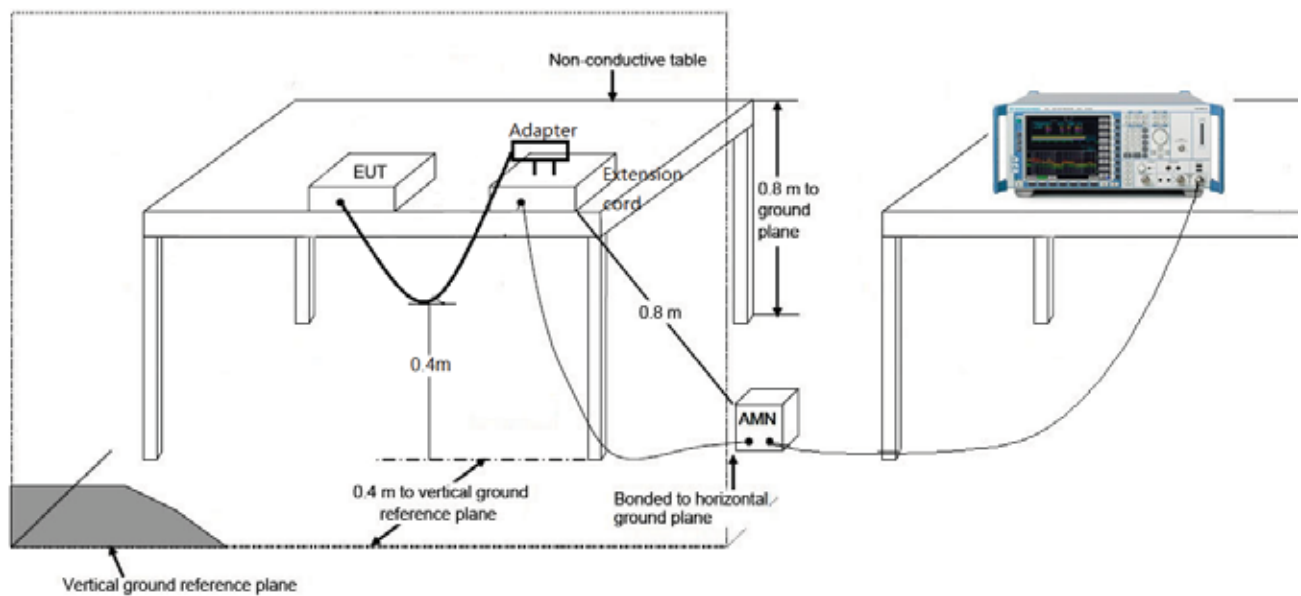
6.2.1. Test Limit

FCC Part 15.107 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

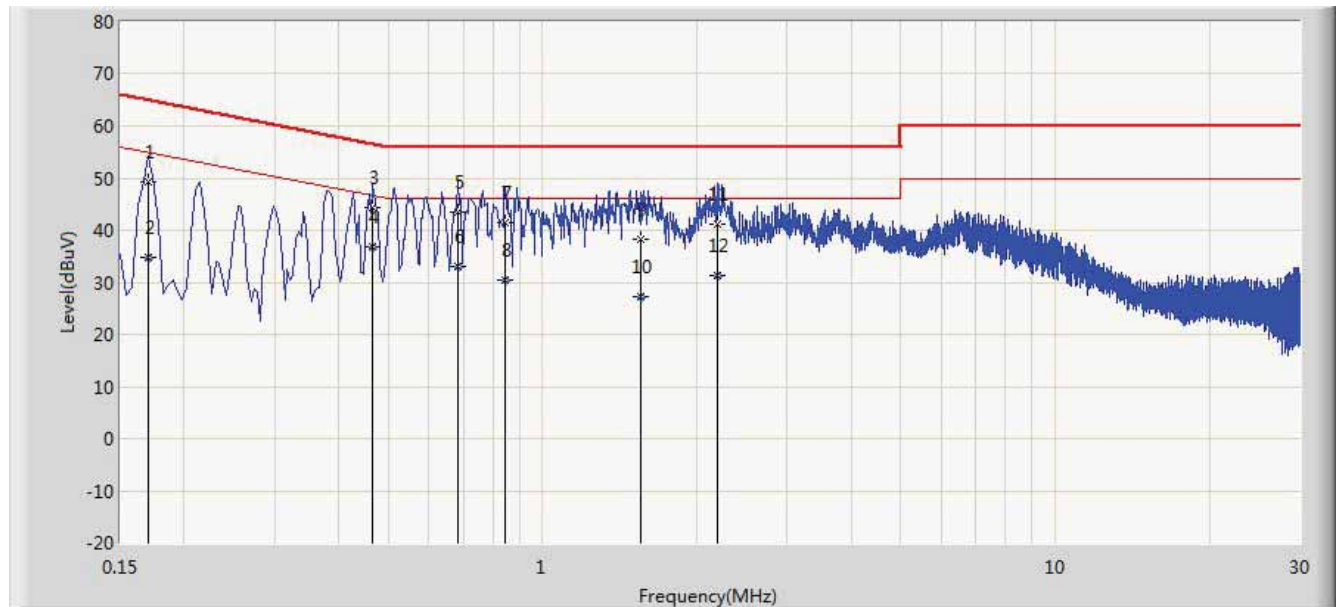
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.2.2. Test Setup



6.2.3. Test Result of Conducted Emissions

Tested By	Roy Cheng	Test Data	2014/09/11 - 19:10
Site	SR2	Power	AC 120V/60Hz
Limit	FCC_Part15.107_CE_Class B	Polarity	Line
AMN	LISN_101683-FILTER ON	Test Mode	Mode 1

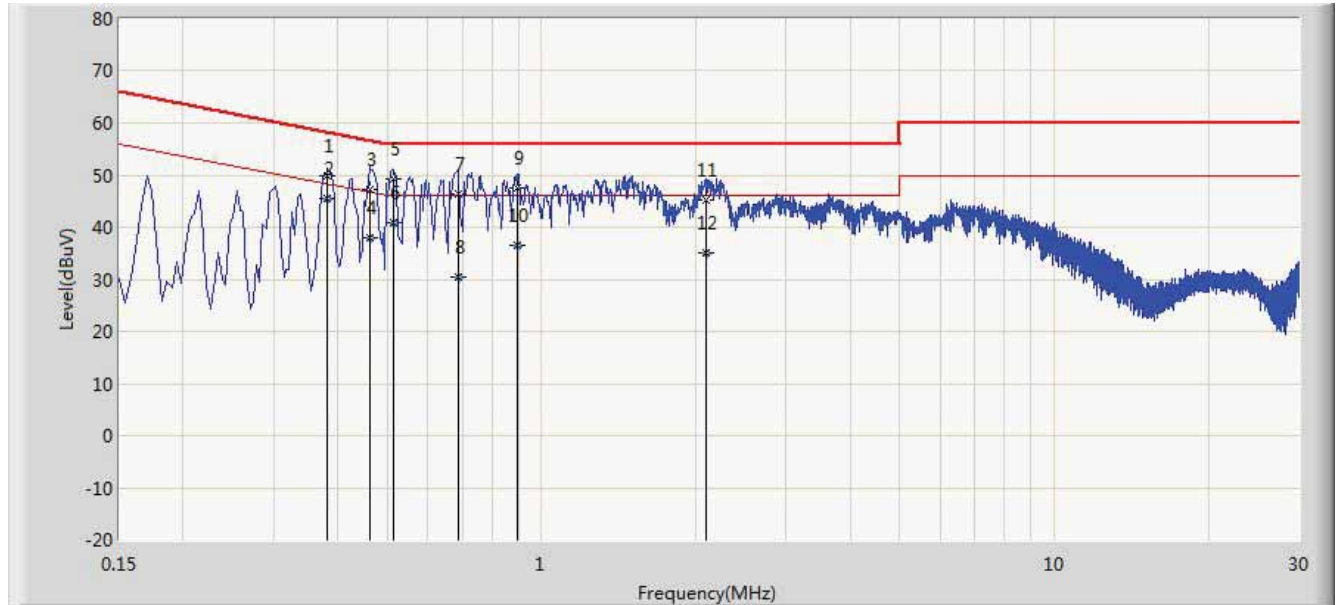


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV)	Factor (dB)	Type
1			0.170	49.186	39.108	-15.774	64.960	10.078	QP
2			0.170	34.796	24.718	-20.164	54.960	10.078	AV
3			0.466	44.333	34.194	-12.252	56.585	10.139	QP
4		*	0.466	36.695	26.556	-9.890	46.585	10.139	AV
5			0.682	43.402	33.330	-12.598	56.000	10.072	QP
6			0.682	33.081	23.009	-12.919	46.000	10.072	AV
7			0.846	41.478	31.490	-14.522	56.000	9.988	QP
8			0.846	30.540	20.552	-15.460	46.000	9.988	AV
9			1.550	38.227	28.340	-17.773	56.000	9.887	QP
10			1.550	27.155	17.268	-18.845	46.000	9.887	AV
11			2.198	41.145	31.279	-14.855	56.000	9.866	QP
12			2.198	31.410	21.544	-14.590	46.000	9.866	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Tested By	Roy Cheng	Test Data	2014/09/11 - 19:18
Site	SR2	Power	AC 120V/60Hz
Limit	FCC_Part15.107_CE_Class B	Polarity	Neutral
AMN	LISN_101683-FILTER ON	Test Mode	Mode 1

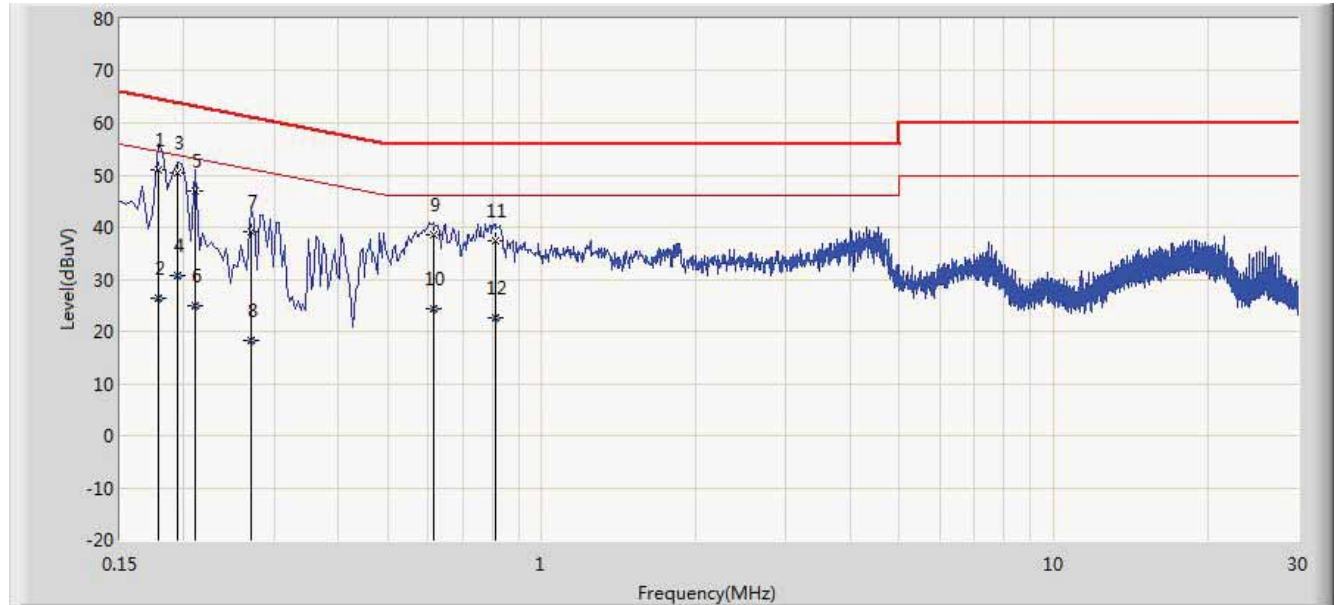


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.382	49.920	39.821	-8.316	58.236	10.099	QP
2		*	0.382	45.497	35.398	-2.739	48.236	10.099	AV
3			0.462	47.344	37.185	-9.313	56.657	10.159	QP
4			0.462	37.991	27.832	-8.666	46.657	10.159	AV
5			0.514	49.140	38.964	-6.860	56.000	10.176	QP
6			0.514	40.938	30.762	-5.062	46.000	10.176	AV
7			0.690	46.489	36.408	-9.511	56.000	10.081	QP
8			0.690	30.335	20.254	-15.665	46.000	10.081	AV
9			0.898	47.477	37.512	-8.523	56.000	9.965	QP
10			0.898	36.442	26.477	-9.558	46.000	9.965	AV
11			2.094	45.172	35.300	-10.828	56.000	9.872	QP
12			2.094	35.001	25.129	-10.999	46.000	9.872	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Tested By	Roy Cheng	Test Data	2014/09/11 - 18:56
Site	SR2	Power	AC 120V/60Hz
Limit	FCC_Part15.107_CE_Class B	Polarity	Line
AMN	LISN_101683-FILTER ON	Test Mode	Mode 2

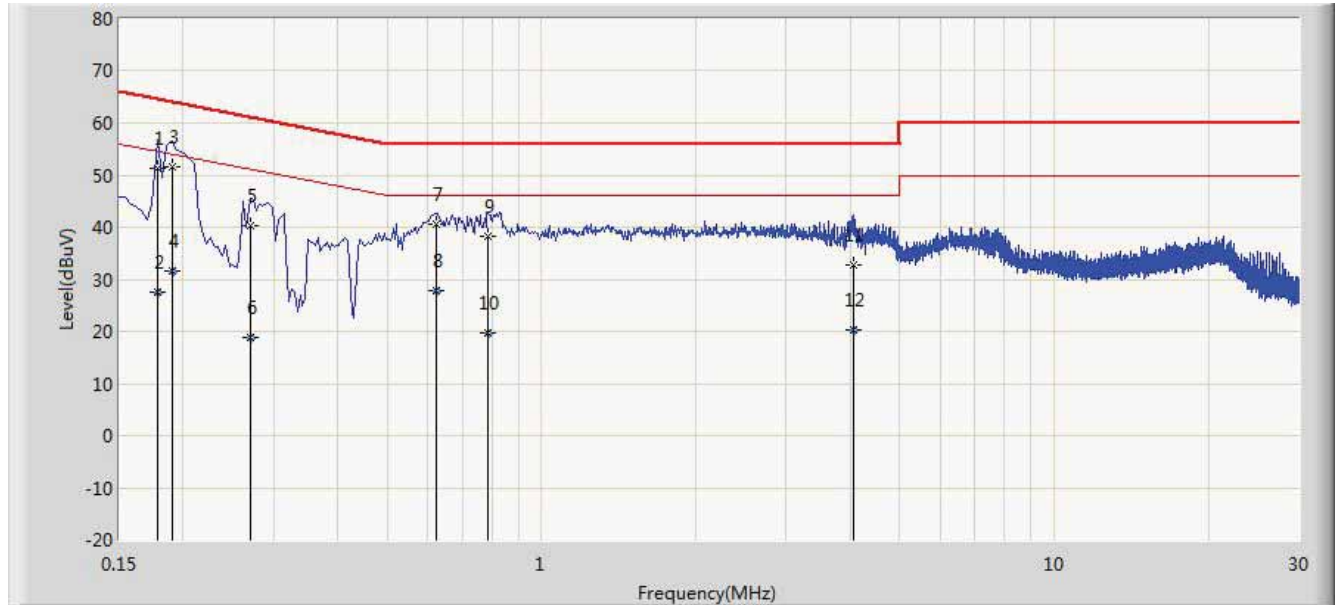


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.178	50.904	40.846	-13.674	64.578	10.058	QP
2			0.178	26.507	16.449	-28.071	54.578	10.058	AV
3		*	0.194	50.417	40.400	-13.447	63.864	10.017	QP
4			0.194	30.630	20.613	-23.234	53.864	10.017	AV
5			0.210	47.073	37.104	-16.132	63.205	9.969	QP
6			0.210	24.907	14.938	-28.298	53.205	9.969	AV
7			0.270	39.175	29.195	-21.943	61.118	9.980	QP
8			0.270	18.141	8.161	-32.977	51.118	9.980	AV
9			0.614	38.538	28.430	-17.462	56.000	10.108	QP
10			0.614	24.228	14.120	-21.772	46.000	10.108	AV
11			0.814	37.463	27.459	-18.537	56.000	10.004	QP
12			0.814	22.713	12.709	-23.287	46.000	10.004	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Tested By	Roy Cheng	Test Data	2014/09/11 - 19:01
Site	SR2	Power	AC 120V/60Hz
Limit	FCC_Part15.107_CE_Class B	Polarity	Neutral
AMN	LISN_101683-FILTER ON	Test Mode	Mode 2



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.178	51.315	41.266	-13.263	64.578	10.049	QP
2			0.178	27.582	17.533	-26.996	54.578	10.049	AV
3		*	0.190	51.671	41.643	-12.366	64.037	10.028	QP
4			0.190	31.696	21.668	-22.341	54.037	10.028	AV
5			0.270	40.150	30.134	-20.968	61.118	10.016	QP
6			0.270	18.973	8.957	-32.145	51.118	10.016	AV
7			0.622	40.521	30.402	-15.479	56.000	10.119	QP
8			0.622	27.698	17.579	-18.302	46.000	10.119	AV
9			0.786	38.328	28.301	-17.672	56.000	10.027	QP
10			0.786	19.785	9.758	-26.215	46.000	10.027	AV
11			4.058	32.816	22.840	-23.184	56.000	9.976	QP
12			4.058	20.423	10.447	-25.577	46.000	9.976	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

6.3. Radiated Emission Measurement

6.3.1. Test Limit

FCC Part 15.109 Limits		
Frequency (MHz)	Distance (m)	Level (dB μ V/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

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

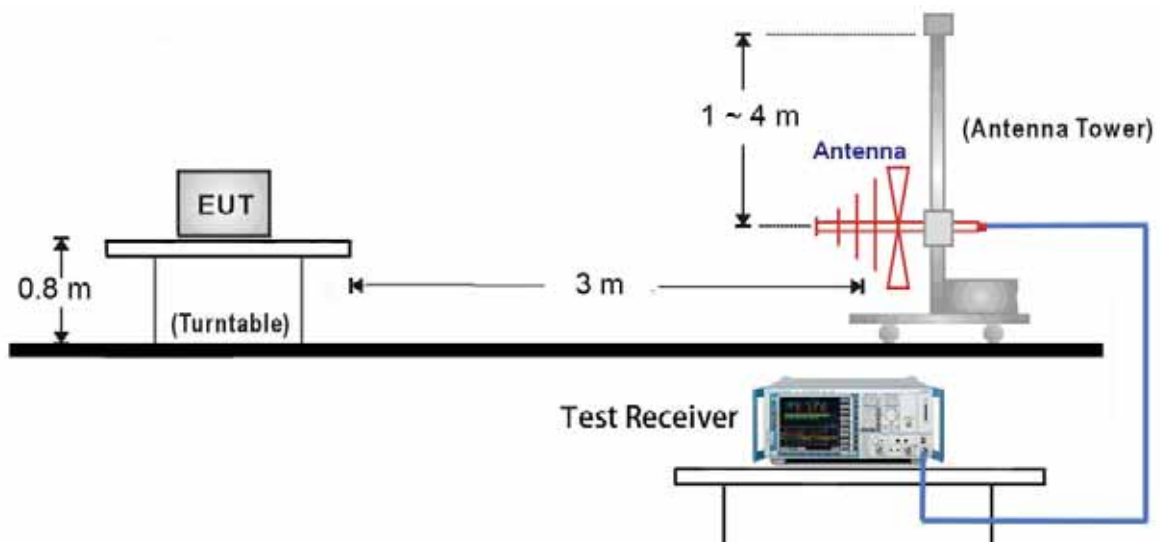
Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dB μ V/m) = 20 log E field strength (μ V/m)

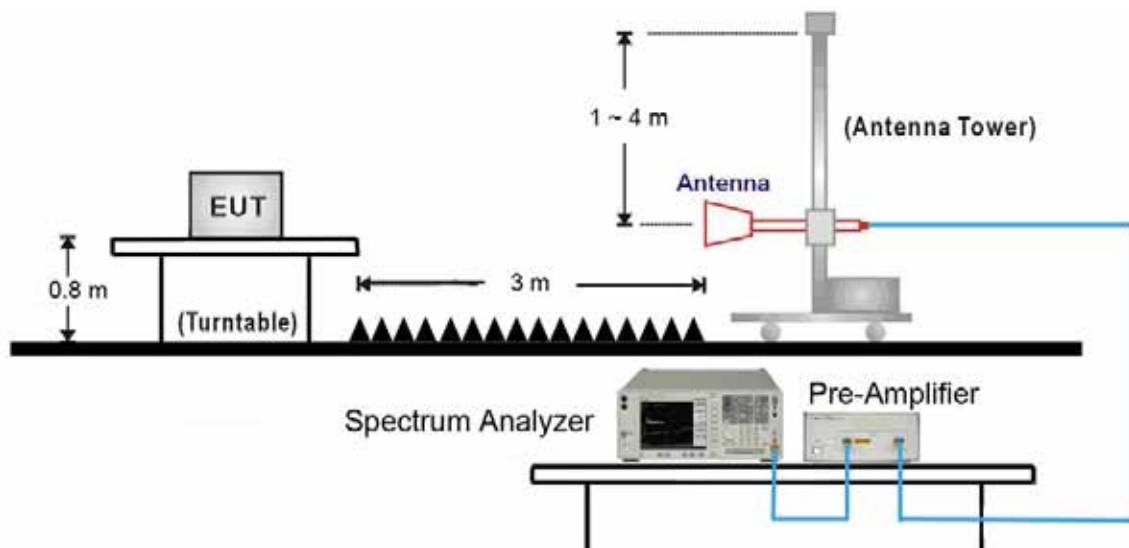
Frequency (MHz)	Detector	RBW	VBW
30 ~ 1000	QP	120kHz	300kHz
1000 ~ 18000 FOR PK VALUE	PK	1MHz	3MHz
1000 ~ 18000 FOR AV VALUE	PK	1MHz	10Hz

6.3.2. Test Setup

30MHz ~ 1GHz Test Setup:

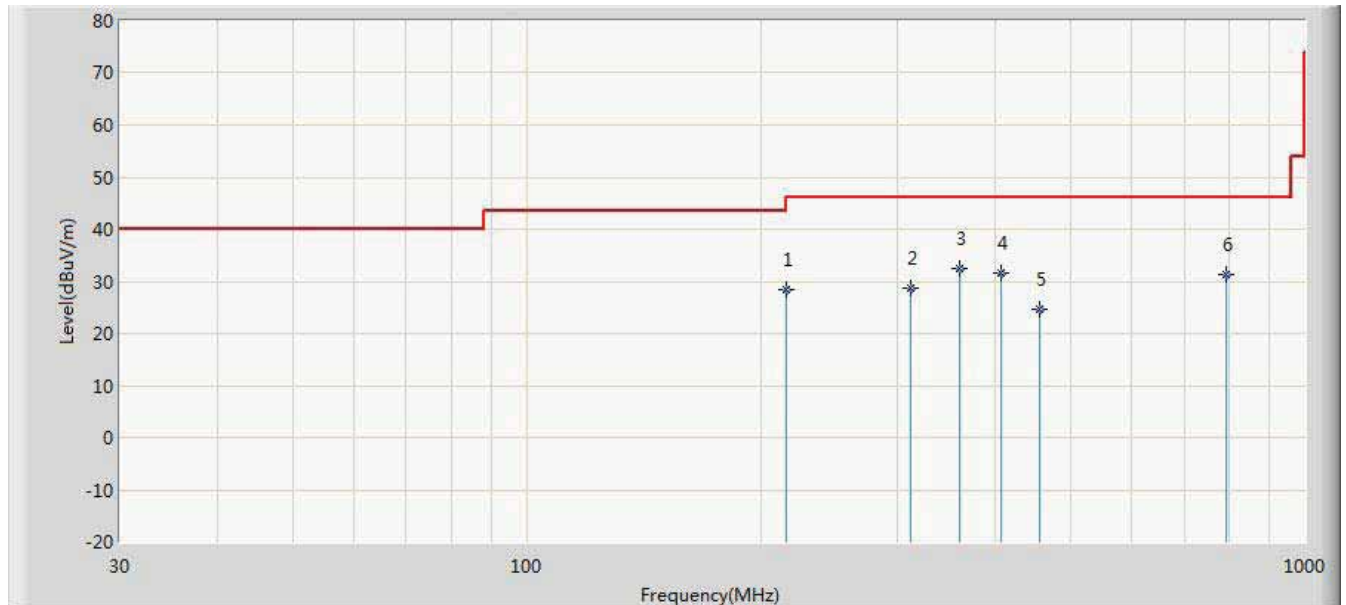


1GHz ~18GHz Test Setup:



6.3.3. Test Result of Radiated Emissions

Tested By	Roy Cheng	Test Data	2014/09/24 - 10:01
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Horizontal
Antenna	VULB9162_0.03-8GHz	Test Mode	Mode 1

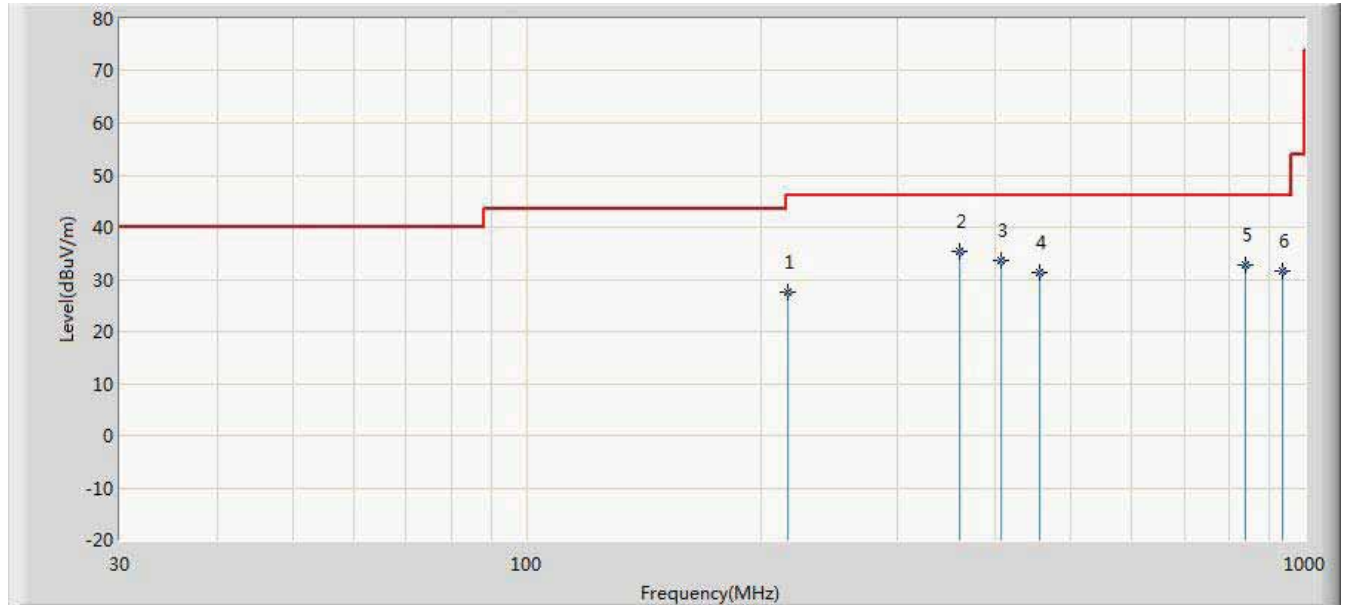


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			215.720	28.366	47.322	-15.134	43.500	-18.956	QP
2			311.525	28.739	45.600	-17.261	46.000	-16.861	QP
3		*	359.960	32.543	48.230	-13.457	46.000	-15.687	QP
4			407.820	31.534	46.355	-14.466	46.000	-14.821	QP
5			455.833	24.723	38.923	-21.277	46.000	-14.200	QP
6			792.020	31.221	40.220	-14.779	46.000	-8.999	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier (dB)

Tested By	Roy Cheng	Test Data	2014/09/24 - 10:02
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Vertical
Antenna	VULB9162_0.03-8GHz	Test Mode	Mode 1

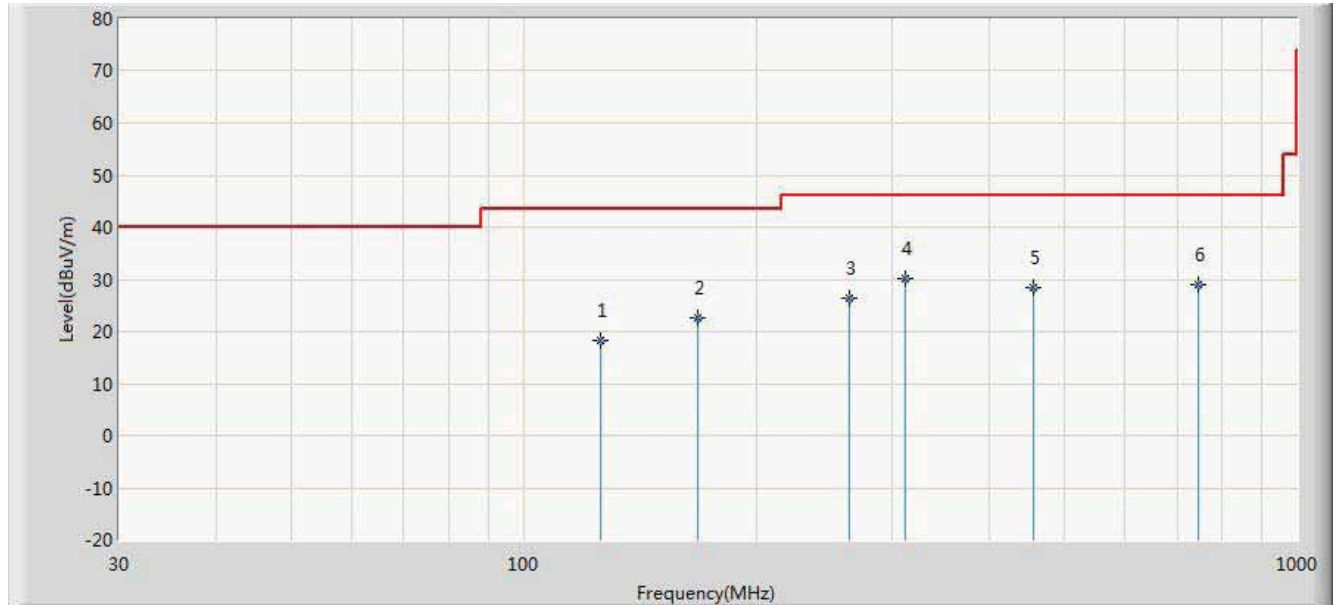


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			216.240	27.413	46.365	-18.587	46.000	-18.952	QP
2		*	359.660	35.331	51.020	-10.669	46.000	-15.689	QP
3			407.582	33.502	48.330	-12.498	46.000	-14.828	QP
4			455.830	31.430	45.630	-14.570	46.000	-14.200	QP
5			839.993	32.788	41.034	-13.212	46.000	-8.246	QP
6			935.900	31.585	38.935	-14.415	46.000	-7.350	QP

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier (dB)

Tested By	Roy Cheng	Test Data	2014/09/24 - 11:47
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Horizontal
Antenna	VULB9162_0.03-8GHz	Test Mode	Mode 2

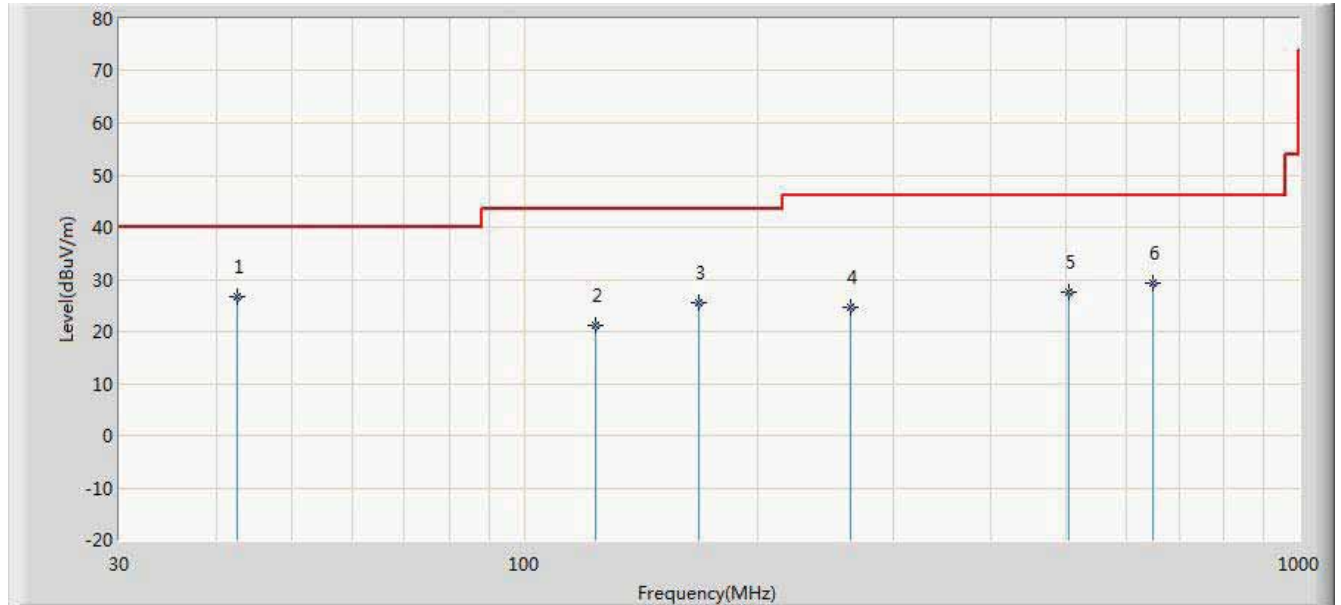


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			125.545	18.378	39.483	-25.122	43.500	-21.105	QP
2			168.225	22.472	43.821	-21.028	43.500	-21.349	QP
3			263.770	26.423	44.071	-19.577	46.000	-17.648	QP
4		*	312.270	30.113	46.956	-15.887	46.000	-16.843	QP
5			455.830	28.408	42.608	-17.592	46.000	-14.200	QP
6			743.920	28.916	38.485	-17.084	46.000	-9.569	QP

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier (dB)

Tested By	Roy Cheng	Test Data	2014/09/24 - 11:48
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Vertical
Antenna	VULB9162_0.03-8GHz	Test Mode	Mode 2

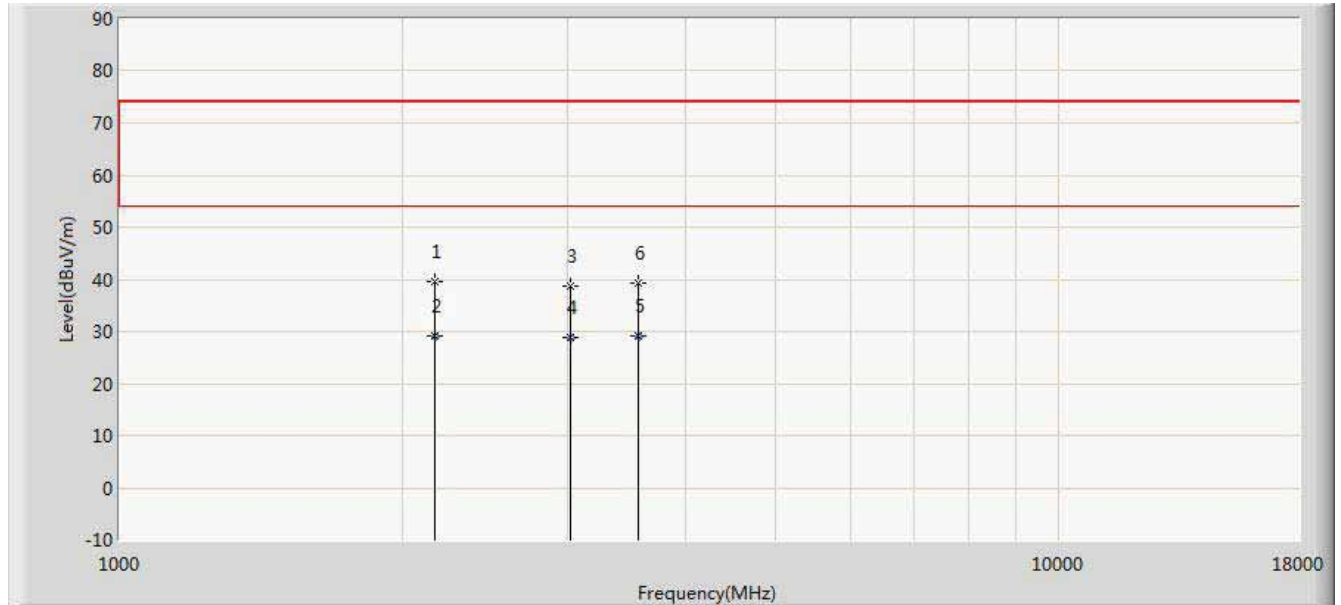


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	42.610	26.690	43.779	-13.310	40.000	-17.089	QP
2			123.605	21.125	41.942	-22.375	43.500	-20.817	QP
3			167.740	25.545	46.916	-17.955	43.500	-21.371	QP
4			263.770	24.590	42.238	-21.410	46.000	-17.648	QP
5			503.845	27.623	40.997	-18.377	46.000	-13.374	QP
6			647.890	29.317	40.388	-16.683	46.000	-11.071	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier (dB)

Tested By	Roy Cheng	Test Data	2014/09/24 - 10:01
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Horizontal
Antenna	BBHA9120D_1-18GHz	Test Mode	Mode 1

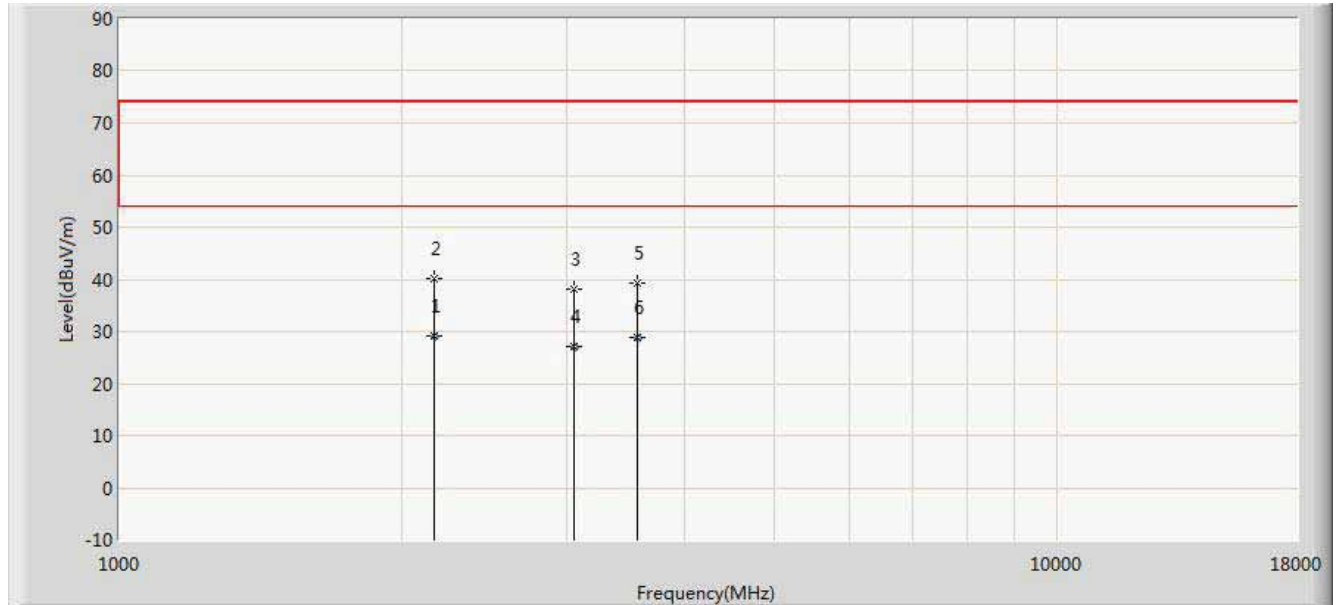


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2164.500	39.533	36.771	-34.467	74.000	2.762	PK
2		*	2164.660	29.113	26.350	-24.887	54.000	2.763	AV
3			3015.650	38.782	35.387	-35.218	74.000	3.395	PK
4			3015.653	28.761	25.366	-25.239	54.000	3.395	AV
5			3562.648	29.007	24.952	-24.993	54.000	4.055	AV
6			3562.656	39.229	35.174	-34.771	74.000	4.055	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier (dB)

Tested By	Roy Cheng	Test Data	2014/09/24 - 10:01
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Vertical
Antenna	BBHA9120D_1-18GHz	Test Mode	Mode 1

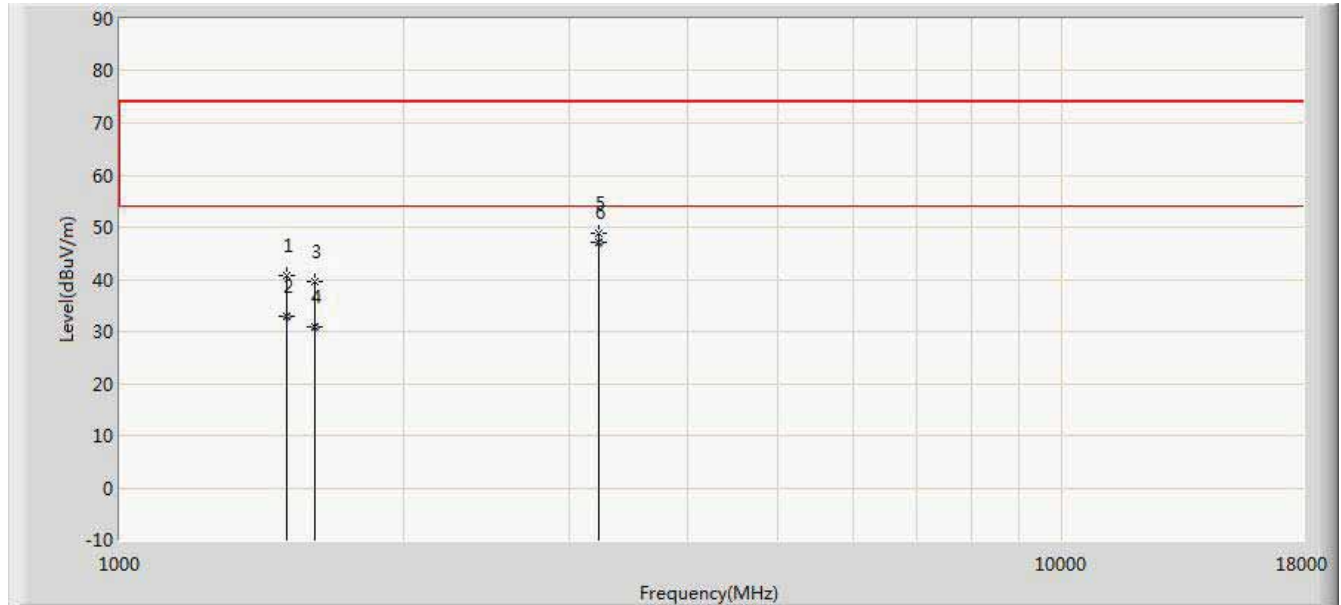


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2164.350	29.110	26.350	-24.890	54.000	2.760	AV
2			2164.500	40.079	37.317	-33.921	74.000	2.762	PK
3			3049.636	37.997	34.553	-36.003	74.000	3.444	PK
4			3049.673	27.104	23.660	-26.896	54.000	3.444	AV
5			3563.636	39.346	35.291	-34.654	74.000	4.055	PK
6			3563.678	28.718	24.663	-25.282	54.000	4.055	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier (dB)

Tested By	Roy Cheng	Test Data	2014/09/24 - 09:32
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Horizontal
Antenna	BBHA9120D_1-18GHz	Test Mode	Mode 2

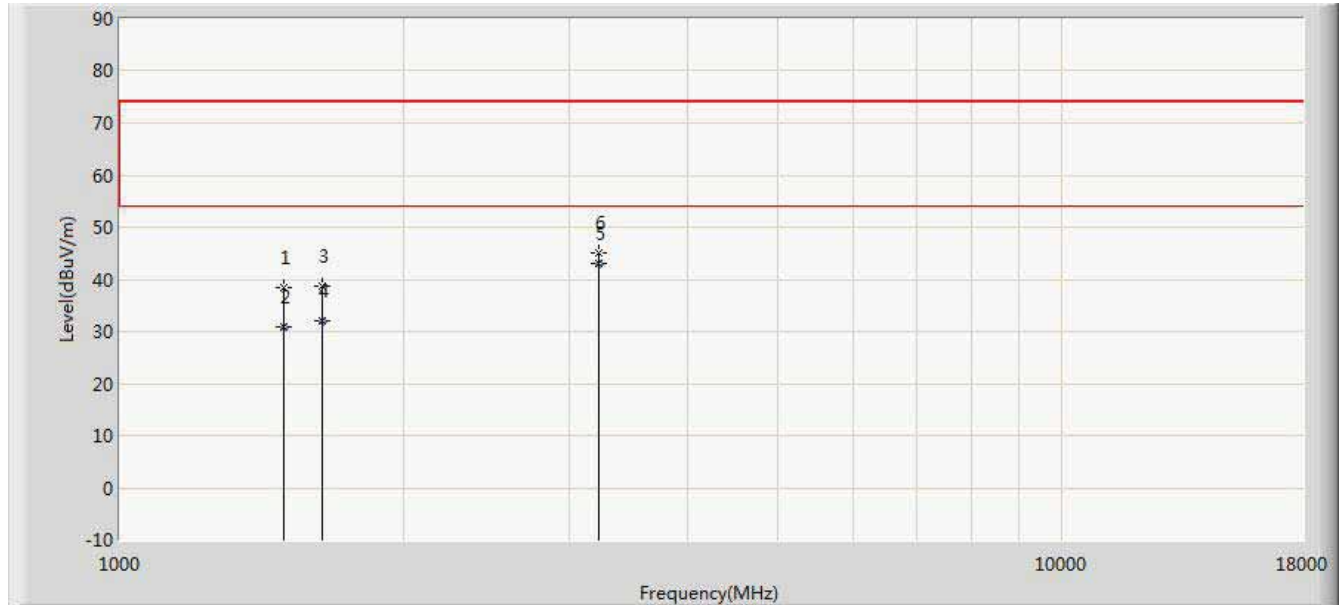


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			1501.500	40.743	42.042	-33.257	74.000	-1.299	PK
2			1501.560	32.916	34.215	-21.084	54.000	-1.299	AV
3			1612.000	39.510	40.589	-34.490	74.000	-1.079	PK
4			1612.022	30.975	32.054	-23.025	54.000	-1.079	AV
5			3218.500	48.939	45.456	-25.061	74.000	3.483	PK
6		*	3218.530	47.030	43.547	-6.970	54.000	3.483	AV

Note: Measure Level (dB μ V/m) = Reading Level (dB μ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier (dB)

Tested By	Roy Cheng	Test Data	2014/09/24 - 09:32
Site	AC1	Power	AC 120V/60Hz
Limit	FCC_Part15.109_RE(3m)_Class B	Polarity	Vertical
Antenna	BBHA9120D_1-18GHz	Test Mode	Mode 2



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			1493.000	38.427	39.740	-35.573	74.000	-1.313	PK
2			1493.320	30.741	32.054	-23.259	54.000	-1.313	AV
3			1637.500	38.627	39.685	-35.373	74.000	-1.058	PK
4			1637.523	32.062	33.120	-21.938	54.000	-1.058	AV
5		*	3218.421	42.942	39.460	-11.058	54.000	3.482	AV
6			3218.500	45.011	41.528	-28.989	74.000	3.483	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier (dB)

7. CONCLUSION

The data collected relate only the item(s) tested and show that the **8.0" PAD FCC ID: ROU00009** has been tested to comply with the requirements specified in §15.107 and §15.109 of the FCC Rules.

The End