

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT**

OF

Quirky, Inc.

Rev

MODEL No.: Rev

FCC ID: 2AAAH-REV001

Trademark: Quirky

REPORT NO: ES141030402E1

ISSUE DATE: November 13, 2014

Prepared for

Quirky, Inc.

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Prepared by

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VERIFICATION OF COMPLIANCE


Applicant:	Quirky, Inc. 606 W 28th St Floor 7 New York, NY 10001 United States
Manufacturer:	Quirky, Inc. 606 W 28th St Floor 7 New York, NY 10001 United States
Product product:	Rev
Model Number:	Rev
Trademark:	Quirky
File Number:	ES141030402E1
Date of Test:	October 31, 2014 to November 13, 2014

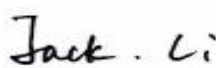
We hereby certify that:

The above equipment was tested by SHENZHEN EMTEK CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15C.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : October 31, 2014 to November 13, 2014

Prepared by : 
Yaping Shen/Editor

Reviewer : 
Jack Li/Supervisor


Approve & Authorized Signer : 
Lisa Wang/Manager

Table of Contents

1	GENERAL INFORMATION.....	4
1.1	PRODUCT DESCRIPTION.....	4
1.2	RELATED SUBMITTAL(S) / GRANT(S).....	4
1.3	TEST METHODOLOGY.....	5
1.4	SPECIAL ACCESSORIES	5
1.5	EQUIPMENT MODIFICATIONS	5
1.6	TEST FACILITY	5
2	SYSTEM TEST CONFIGURATION	6
2.1	EUT CONFIGURATION.....	6
2.2	EUT EXERCISE	6
2.3	TEST PROCEDURE	6
2.4	CONFIGURATION OF TESTED SYSTEM.....	6
3	SUMMARY OF TEST RESULTS	8
4	CONDUCTED EMISSIONS TEST	9
4.1	MEASUREMENT PROCEDURE	9
4.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	9
4.3	MEASUREMENT EQUIPMENT USED.....	9
4.4	CONDUCTED EMISSION LIMIT	9
4.5	MEASUREMENT RESULT	10
4.6	CONDUCTED MEASUREMENT PHOTO	11
5	RADIATED EMISSION TEST	12
5.1	MEASUREMENT PROCEDURE	12
5.2	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	12
5.3	MEASUREMENT EQUIPMENT USED.....	13
5.4	RADIATED EMISSION LIMIT	13
5.5	MEASUREMENT RESULT	15
5.6	RADIATED MEASUREMENT PHOTOS.....	21

1 General Information

1.1 Product Description

A major technical descriptions of EUT is described as following:

Product	Rev
Model Number	Rev
Power Supply	Input: DC 5V by AC adapter or DC adapter
AC adapter	Model: NSA13UU-050250 Input: AC 100-240V 50/60Hz 0.5A Output: DC 5V 2A
DC Adapter	DC 12V-24V
Output	Coil: DC 5V/900mA
Receiver Frequency	110-205 KHz
Modulation Technique	Induction
Antenna Type	Induction coil

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2AAAH-REV001 filing to comply with the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2009). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

1.6 Test Facility

Site Description

EMC Lab.

- : Accredited by CNAS, 2010.10.29
The certificate is valid until 2013.10.28
The Laboratory has been assessed and proved to be in compliance with
CNAS/CL01: 2006(identical to ISO/IEC17025: 2005)
The Certificate Registration Number is L2291
- Accredited by TUV Rheinland Shenzhen 2010.5.25
The Laboratory has been assessed according to the requirements ISO/IEC
17025
- Accredited by FCC, October 28, 2010
The Certificate Registration Number is 406365.
- Accredited by Industry Canada, March 05, 2010
The Certificate Registration Number is 46405-4480.
- Name of Firm : SHENZHEN EMTEK CO., LTD.
Site Location : Bldg 69, Majialong Industry Zone,
Nanshan District, Shenzhen, Guangdong, China

2 System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4-2009 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4-2009.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

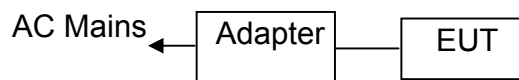


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
1.	Rev	Quirky	Rev	2AAAH-REV001	N/A	EUT

Note:

- (1) Unless otherwise denoted as EUT in 『Remark』 column, device(s) used in tested system is a support equipment.

3 Summary of Test Results

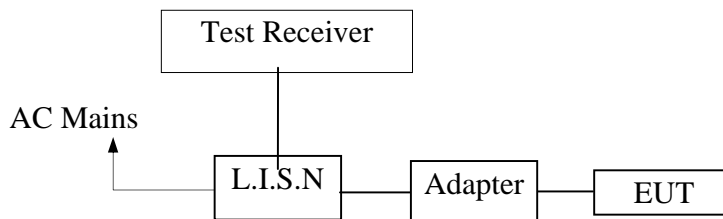
FCC Rules	Description Of Test	Result
§15.207	AC Power Conducted Emission	Compliant
§15.209	Radiated Emission	Compliant

4 Conducted Emissions Test

4.1 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

4.2 Test SET-UP (Block Diagram of Configuration)



4.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	05/28/2014	05/28/2015
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	05/28/2014	05/28/2015
50Ω Coaxial Switch	Anritsu	MP59B	M20531	N/A	N/A
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	05/28/2014	05/28/2015
Voltage Probe	Rohde & Schwarz	TK9416	N/A	05/28/2014	05/28/2015
I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	05/28/2014	05/28/2015

4.4 Conducted Emission Limit

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

- Note:** 1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.5 Measurement Result

We pretest three mode (max load, mid load, min load) for EUT. The worst mode (min load) test data see follow the table.

Date of Test:	November 05, 2014	Temperature:	20℃
Frequency Detector:	0.15~30MHz	Humidity:	55 %
Test Result:	PASS	Test Mode:	Min load
Note:			

Test Line	Frequency MHz	Emission Level QP dB(μV)	Emission Level AV dB(μV)	Limits QP dB(μV)	Limits AV dB(μV)	Over QP dB(μV)	Over AV dB(μV)
Line	0.16	52.05	33.1	65.46	55.46	-13.41	-22.36
	0.215	45.25	26.96	63.01	53.01	-17.76	-26.05
	0.26	41.89	26.9	61.43	51.43	-19.54	-24.53
	0.31	39.58	29.65	59.97	49.97	-20.39	-20.32
	0.41	37.71	28.03	57.65	47.65	-19.94	-19.62
	0.495	39.75	29.14	56.08	46.08	-16.33	-16.94
Neutral	0.21	43.56	27.23	63.21	53.21	-19.65	-25.98
	0.26	41.5	27.17	61.43	51.43	-19.93	-24.26
	0.31	44.24	31.43	59.97	49.97	-15.73	-18.54
	0.41	36.69	26.87	57.65	47.65	-20.96	-20.78
	0.465	41.77	30.42	56.6	46.6	-14.83	-16.18
	0.16	52.05	33.1	65.46	55.46	-13.41	-22.36

4.6 Conducted Measurement Photo



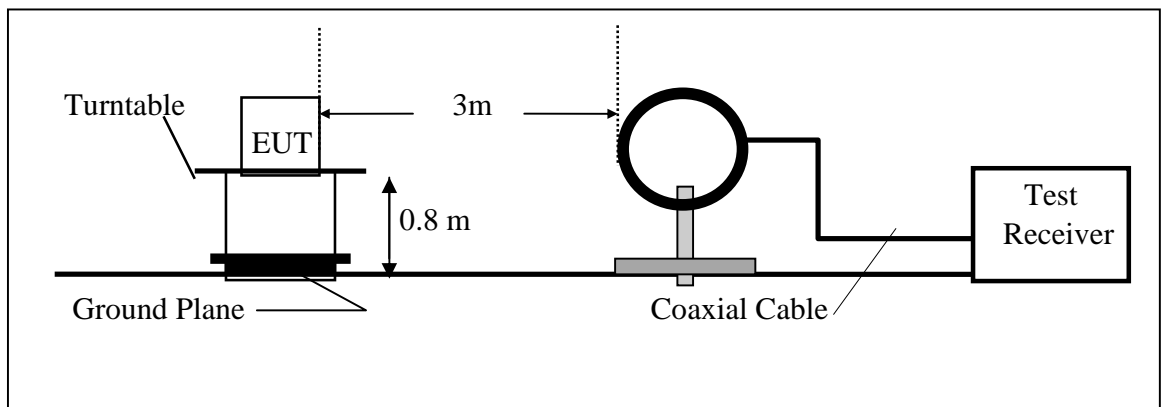
5 Radiated Emission Test

5.1 Measurement Procedure

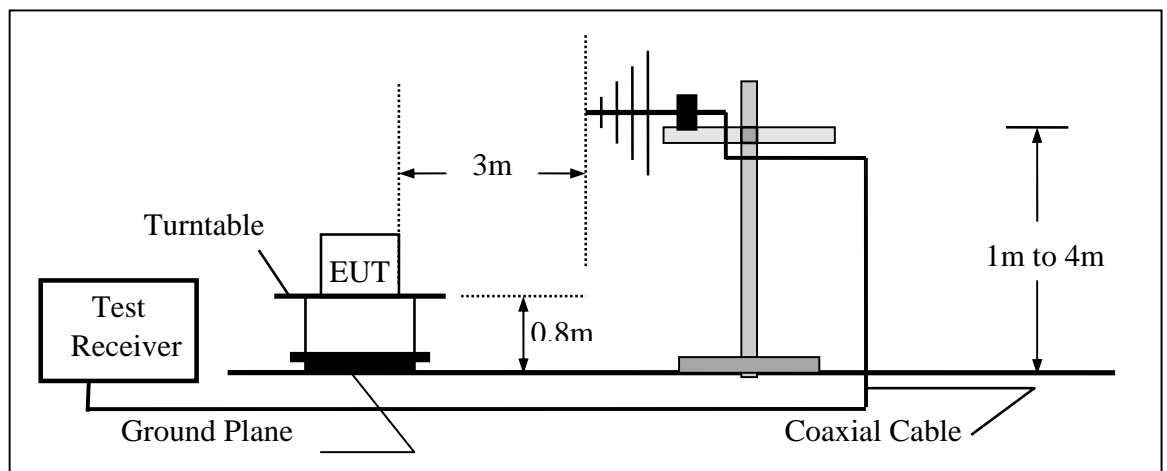
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.
5. Use the following receiver/spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured
RBW=200Hz for 9KHz to 150KHz,
RBW=9kHz for 150KHz to 30MHz,
RBW=120KHz for 30MHz to 1GHz
VBW $\geq 3 \times$ RBW
Sweep = auto
Detector function = QP
Trace = max hold

5.2 Test SET-UP (Block Diagram of Configuration)

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



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



5.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/17/2014	05/16/2015
Pre-Amplifier	HP	8447D	2944A07999	05/17/2014	05/16/2015
Bilog Antenna	Schwarzbeck	VULB9163	142	05/17/2014	05/16/2015
Loop Antenna	ARA	PLA-1030/B	1029	05/17/2014	05/16/2015
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	05/17/2014	05/16/2015
Horn Antenna	Schwarzbeck	BBHA 9120	D143	05/17/2014	05/16/2015
Cable	Schwarzbeck	AK9513	ACRX1	05/17/2014	05/16/2015
Cable	Rosenberger	N/A	FP2RX2	05/17/2014	05/16/2015
Cable	Schwarzbeck	AK9513	CRPX1	05/17/2014	05/16/2015
Cable	Schwarzbeck	AK9513	CRRX2	05/17/2014	05/16/2015

5.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

Remark: 1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

5.5 Measurement Result

AC Adapter:

Low frequency:

Operation Mode:	Max load	Test Date :	November 05, 2014
Frequency Range:	9KHz~30MHz	Temperature :	20℃
Test Result:	PASS	Humidity :	55 %
Measured Distance:	3m	Test By:	SYP

Freq. (MHz)	Ant.Pol.	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
0.031	X	44.65	126.91	-82.26	PK
0.110	X	82.44	106.7	-24.26	PK
4.600	X	34.96	69.50	-34.54	PK
23.19	X	33.67	69.50	-35.83	PK

Mid frequency:

Operation Mode:	Mid load	Test Date :	November 05, 2014
Frequency Range:	9KHz~30MHz	Temperature :	20℃
Test Result:	PASS	Humidity :	55 %
Measured Distance:	3m	Test By:	SYP

Freq. (MHz)	Ant.Pol.	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
0.091	X	31.29	122.39	-91.10	PK
0.157	X	80.60	103.7	-23.1	PK
8.151	X	33.10	69.50	-36.40	PK
26.51	X	33.85	69.50	-35.65	PK

High frequency:

Operation Mode:	Min load	Test Date :	November 05, 2014
Frequency Range:	9KHz~30MHz	Temperature :	20℃
Test Result:	PASS	Humidity :	55 %
Measured Distance:	3m	Test By:	SYP

Freq. (MHz)	Ant.Pol.	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
0.049	X	43.29	125.33	-82.04	PK
0.203	X	78.94	101.80	-22.86	PK
0.451	X	48.73	96.79	-48.06	PK
5.941	X	33.73	69.50	-35.77	PK

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

DC Adapter:

Low frequency:

Operation Mode:	Max load	Test Date :	November 05, 2014
Frequency Range:	9KHz~30MHz	Temperature :	20℃
Test Result:	PASS	Humidity :	55 %
Measured Distance:	3m	Test By:	SYP

Freq. (MHz)	Ant.Pol.	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
0.041	X	51.58	126.15	-74.57	PK
0.111	X	79.91	106.7	-26.79	PK
7.190	X	33.63	69.50	-35.87	PK
26.721	X	33.61	69.50	-35.89	PK

Mid frequency:

Operation Mode:	Mid load	Test Date :	November 05, 2014
Frequency Range:	9KHz~30MHz	Temperature :	20℃
Test Result:	PASS	Humidity :	55 %
Measured Distance:	3m	Test By:	SYP

Freq. (MHz)	Ant.Pol.	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
0.120	X	53.80	120.19	-66.39	PK
0.151	X	80.24	104	-23.74	PK
1.370	X	36.23	65.94	-29.71	PK
10.72	X	32.86	69.50	-36.64	PK

High frequency:

Operation Mode:	Min load	Test Date :	November 05, 2014
Frequency Range:	9KHz~30MHz	Temperature :	20℃
Test Result:	PASS	Humidity :	55 %
Measured Distance:	3m	Test By:	SYP

Freq. (MHz)	Ant.Pol.	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
0.080	X	47.42	123.11	-75.69	PK
0.203	X	76.48	101.45	-24.97	PK
13.610	X	33.22	69.50	-36.28	PK
16.780	X	33.32	69.50	-36.18	PK

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.
X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.
Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.
Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.

AC Adapter:

Low frequency:

Operation Mode: Max load Test Date : November 05, 2014
Frequency Range: 30~1000MHz Temperature : 20℃
Test Result: PASS Humidity : 55 %
Measured Distance: 3m Test By: SYP

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
52.99	V	29.27	40.00	-10.73	PK
78.21	V	30.05	40.00	-9.95	PK
125.74	V	32.49	43.50	-11.01	PK
136.41	V	31.07	43.50	-12.43	PK
193.64	V	25.65	43.50	-17.85	PK
51.87	H	29.42	40.00	-10.58	PK
78.21	H	29.79	40.00	-10.21	PK
126.71	H	32.56	43.50	-10.94	PK
145.14	H	29.92	43.50	-13.58	PK
260.57	H	25.61	46.00	-20.39	PK

Note: (1) All Readings are Peak Value.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) The average measurement was not performed when the peak measured data under the limit of average detection.
(4) EUT lying on the table position is the worst case result in the report.

Mid frequency:

Operation Mode: Mid load Test Date : November 05, 2014
Frequency Range: 30~1000MHz Temperature : 20℃
Test Result: PASS Humidity : 55 %
Measured Distance: 3m Test By: SYP

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
63.68	V	27.13	40.00	-12.87	PK
88.90	V	30.65	43.50	-12.85	PK
136.43	V	30.35	43.50	-13.15	PK
147.10	V	28.93	43.50	-14.57	PK
204.33	V	35.44	43.50	-8.06	PK
63.68	H	27.28	40.00	-12.72	PK
88.90	H	27.65	43.50	-15.85	PK
137.40	H	33.65	43.50	-9.85	PK
155.83	H	27.78	43.50	-15.72	PK
271.26	H	30.58	46.00	-15.42	PK

Note: (1) All Readings are Peak Value.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) The average measurement was not performed when the peak measured data under the limit of average detection.
(4) EUT lying on the table position is the worst case result in the report.

High frequency:

Operation Mode:	Min load	Test Date :	November 05, 2014
Frequency Range:	30~1000MHz	Temperature :	20℃
Test Result:	PASS	Humidity :	55 %
Measured Distance:	3m	Test By:	SYP

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
137.76	V	36.14	43.50	-7.36	PK
176.98	V	38.00	43.50	-5.50	PK
215.36	V	33.82	43.50	-9.68	PK
421.97	V	31.58	46.00	-14.42	PK
540.31	V	23.75	46.00	-22.25	PK
54.34	H	22.59	40.00	-17.41	PK
136.79	H	30.50	43.50	-13.00	PK
216.33	H	27.63	46.00	-18.37	PK
429.73	H	27.62	46.00	-18.38	PK
665.44	H	26.28	46.00	-19.72	PK

Note: (1) All Readings are Peak Value.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) The average measurement was not performed when the peak measured data under the limit of average detection.
(4) EUT lying on the table position is the worst case result in the report.

DC Adapter:

Low frequency:

Operation Mode:	Max load	Test Date :	November 05, 2014
Frequency Range:	30~1000MHz	Temperature :	20℃
Test Result:	PASS	Humidity :	55 %
Measured Distance:	3m	Test By:	SYP

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
142.32	V	33.04	43.50	-10.46	PK
182.09	V	35.23	43.50	-8.27	PK
219.92	V	31.72	46.00	-14.28	PK
426.53	V	28.48	46.00	-17.52	PK
544.87	V	20.65	46.00	-25.35	PK
58.90	H	19.49	40.00	-20.51	PK
141.35	H	27.40	43.50	-16.10	PK
220.89	H	24.53	46.00	-21.47	PK
434.29	H	24.52	46.00	-21.48	PK
670.00	H	23.18	46.00	-22.82	PK

Note: (1) All Readings are Peak Value.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) The average measurement was not performed when the peak measured data under the limit of average detection.
(4) EUT lying on the table position is the worst case result in the report.

Mid frequency:

Operation Mode:	Mid load	Test Date :	November 05, 2014
Frequency Range:	30~1000MHz	Temperature :	20℃
Test Result:	PASS	Humidity :	55 %
Measured Distance:	3m	Test By:	SYP

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
155.97	V	35.49	43.50	-8.01	PK
195.74	V	37.68	43.50	-5.82	PK
233.57	V	34.17	46.00	-11.83	PK
440.18	V	30.93	46.00	-15.07	PK
558.52	V	23.10	46.00	-22.90	PK
72.55	H	21.94	40.00	-18.06	PK
155.00	H	29.85	43.50	-13.65	PK
234.54	H	26.98	46.00	-19.02	PK
447.94	H	26.97	46.00	-19.03	PK
683.65	H	25.63	46.00	-20.37	PK

Note: (1) All Readings are Peak Value.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) The average measurement was not performed when the peak measured data under the limit of average detection.
(4) EUT lying on the table position is the worst case result in the report.

High frequency:

Operation Mode:	Min load	Test Date :	November 05, 2014
Frequency Range:	30~1000MHz	Temperature :	20℃
Test Result:	PASS	Humidity :	55 %
Measured Distance:	3m	Test By:	SYP

Freq. (MHz)	Ant.Pol. H/V	Emission Level (dBuV/m)	Limit 3m (dBuV/m)	Over (dB)	Note
137.76	V	36.14	43.50	-7.36	PK
177.53	V	38.33	43.50	-5.17	PK
215.36	V	34.82	43.50	-8.68	PK
421.97	V	31.58	46.00	-14.42	PK
540.31	V	23.75	46.00	-22.25	PK
54.34	H	22.59	40.00	-17.41	PK
136.79	H	30.50	43.50	-13.00	PK
216.33	H	27.63	46.00	-18.37	PK
429.73	H	27.62	46.00	-18.38	PK
665.44	H	26.28	46.00	-19.72	PK

Note: (1) All Readings are Peak Value.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) The average measurement was not performed when the peak measured data under the limit of average detection.
(4) EUT lying on the table position is the worst case result in the report.

5.6 Radiated Measurement Photos

