Product Name:	Wireless Charger
Model No.:	WCD-A
Applicant:	EITA International CO. LTD 5F.-1, No.487, Dayou Rd., Taoyuan City, Taoyuan County 330, Taiwan
Date of Receipt:	Jan. 15, 2014
Finished date of Test:	Feb. 21, 2014
Applicable Standards:	47 CFR Part 15, Subpart C ANSI C63.4: 2003

We, **Spectrum Research & Testing Laboratory Inc.**, hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Tested By : Leo Yang , Date: 3/18/2014
(Leo Yang)

Approved By : , Date: 3/18/2014
(Johnson Ho, Director)

Revisions History

Report No.	Issue Date	Revisions
FCCA14011501	Mar. 18, 2014	Initial issue

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1. DOCUMENT POLICY AND TEST STATEMENT

1.1 DOCUMENT POLICY

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.

1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- Power adapter which has Input: AC 100V ~ 240V, 0.35A, 50/60Hz, Output: DC +5V, 2A

1.3 EUT MODIFICATION

- No modification in SRT Lab.

2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless Charger
MODEL NO.	WCD-A
POWER SUPPLY	Power adapter Brand:HUONIU Model No:HNB050200E Input: AC 100V ~ 240V, 0.35A, 50/60Hz Output: DC +5V, 2A
CABLE	NA
FREQUENCY BAND	110kHz ~ 205kHz
CARRIER FREQUENCY	N/A
NUMBER OF CHANNEL	N/A
RATED RF OUTPUT POWER	60.36 dBuV/m (-46.64 dBm, 0.000022 mW)
MODULATION TYPE	N/A
ANTENNA TYPE	coil
ANTENNA GAIN	N/A
OPERATING TEMPERATURE RANGE	-5 ~ 60˚C

NOTE : For more detailed information, please refer to the EUT's specification or user's manual provided by manufacturer.

Color：Black,White

2.2 DESCRIPTION OF EUT INTERNAL DEVICE

DEVICE	BRAND / MAKER	MODEL #	FCC ID / DOC	REMARK

2.3 DESCRIPTION OF TEST MODE

Mode	
1	Link
2	Standby

NOTE : The axis X,Y and Z we evaluate in chamber, the X axis is worst case.

X axis:

Y axis:

Z axis:

2.4 DESCRIPTION OF SUPPORT UNIT

The EUT was configured by the requirement of ANSI C63.4:2003. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

NO	DEVICE	BRAND	MODEL #	FCC ID/DOC	CABLE
1	Power Adapter	HUONIU	HNB050200E	DoC	1.2m unshielded power cable
2	Mobile	SAMSUNG	GT-I9300	DOC	1.5m unshielded data cable.
3	Induction coil	EITA	S3V02	N/A	N/A

NOTE : For the actual test configuration, please refer to the photos of testing.

2.5 EUT OPERATING CONDITION

1.Setup the EUT and all peripheral devices .

2.Turn on the power of all equipment and EUT.

3. Set the EUT under continuous transmission condition or standby.

4. The EUT was set to the highest available power level.

3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a wireless product. According to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C

ANSI C63.4: 2003

All tests have been performed and recorded as the above standards.

3.1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

STANDARD SECTION	TEST TYPE AND LIMIT RESULTS	RESULTS
15.207	AC Power Conducted Emission	Pass
15.217(a)(b)(c)	Radiated Emission (9kHz ~ 30MHz)	Pass
15.217(a)(b)(c)	Radiated Emission (30MHz ~ 1GHz)	Pass

4. TECHNICAL CHARACTERISTICS TEST

4.1 CONDUCTED EMISSION TEST

4.1.1 LIMIT

Frequency (MHz)	Class A (dBμV)		Class B (dBμV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	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 0.50 MHz.

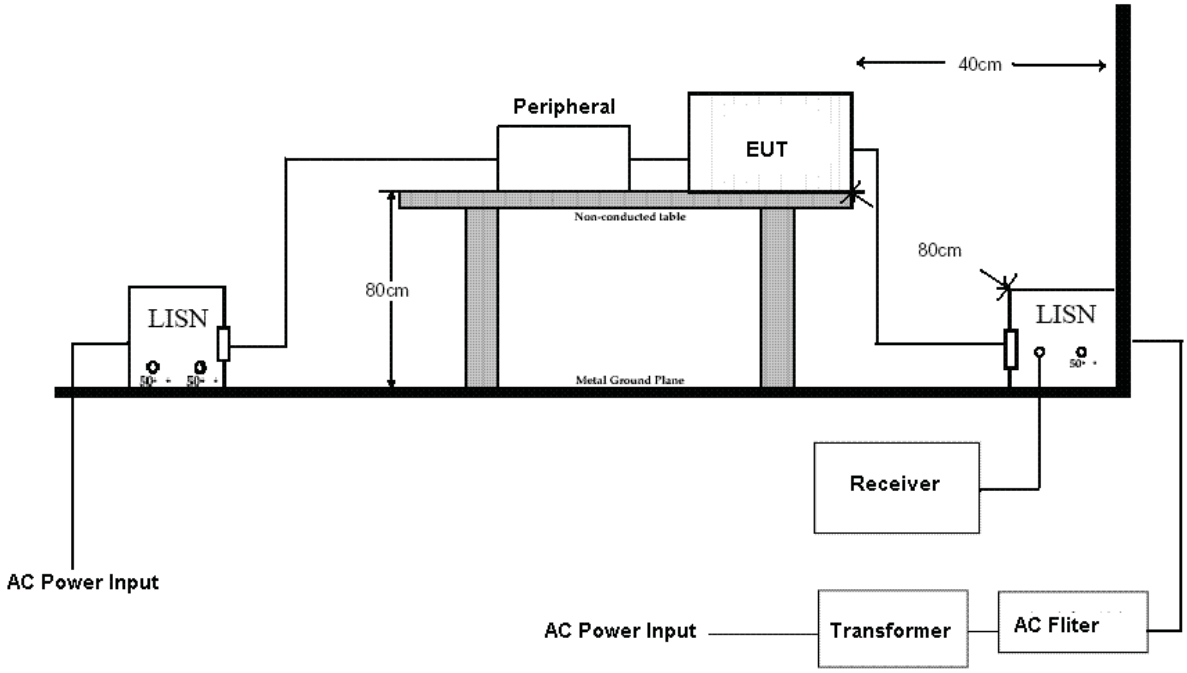
4.1.2 TEST EQUIPMENT

The following test equipment was used for the test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER	9 kHz ~ 30 MHz	ROHDE & SCHWARZ	ESHS30 / 826003/008	JAN. 22, 2014 ETC
LISN	50 μH, 50 ohm	FCC	FCC-LISN-50-25-2 / 01017	JUN. 16, 2014 ETC
LISN	50 μH, 50 ohm	SOLAR	9252-50-R-24-BNC/ 951315	NOV. 13, 2014 ETC
LISN	50 μH, 50 ohm	EMCO	3825/2/ 9204-1952	MAY 30, 2014 ETC
50Ω BNC TYPE TERMINATOR	50 ohm	N/A	11593A/ L1TEQU005	DEC. 09, 2014 ETC
50Ω BNC TYPE TERMINATOR	50 ohm	N/A	B00-CD-357/ L1TEQU009	JUN. 17, 2014 ETC
COAXIAL CABLE	5 m	HUBER+SUHNER	RG214/U / #5M(L1TCAB013)	MAY. 21, 2014 ETC
FILTER	2 LINE, 30 A	FIL.COIL	FC-943 / 771	NCR
GROUND PLANE	2 m (H) x 3 m (W)	SRT	N/A	NCR
GROUND PLANE	2.5 m (H) x 3 m (W)	SRT	N/A	NCR
PULSE LIMITER	9 kHz ~ 30 MHz Insertion Loss= 10dB±0.3dB	ROHDE & SCHWARZ	ESH3Z2/ L1TTES010	JAN. 07, 2014 ETC

NOTE:
The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.1.3 TEST SETUP



NOTE :
1. The EUT was put on a wooden table with 0.8m heights above ground plane, and 0.4m away from reference ground plane (> 2mx2m).
2. For the actual test configuration, please refer to the photos of testing.

4.1.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and CISPR22:2003. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm/50μH as specified. All readings were quasi-peak and average values with 10 kHz resolution bandwidth of the test receiver. The EUT system was operated in all typical methods by users. Both lines of the power mains of EUT were measured and the cables connected to EUT and support units were moved to find the maximum emission levels for each frequency. First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data. The procedure is referred on the test procedure of SRT LAB.

4.1.5 TEST RESULT

Temperature:	20 ˚C	Humidity:	65 %RH
Tested By:	Leo Yang	Tested Mode:	Link
Receiver Detector:	Q.P. and AV.	Modulation Type:	
Frequency Range:	0.15 – 30 MHz	Tested Date:	Feb. 07, 2014

Power Line Measured : Line

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dBμV)		Emission Level (dBμV)		Limit (dBμV)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.348	-0.01	41.58	39.84	41.57	39.83	59.01	49.01	-17.44	-9.18
0.351	-0.01	42.16	40.54	42.15	40.53	58.94	48.94	-16.79	-8.41
0.610	-0.05	35.92	29.85	35.87	29.80	56.00	46.00	-20.13	-16.20
3.190	0.00	24.29	14.13	24.29	14.13	56.00	46.00	-31.71	-31.87
3.457	0.00	25.86	14.50	25.86	14.50	56.00	46.00	-30.14	-31.50
27.608	0.48	15.98	8.71	16.46	9.19	60.00	50.00	-43.54	-40.81

Power Line Measured : Neutral

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dBμV)		Emission Level (dBμV)		Limit (dBμV)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.267	0.06	42.90	33.88	42.96	33.94	61.21	51.21	-18.25	-17.27
0.498	-0.01	33.55	27.24	33.54	27.23	56.04	46.04	-22.50	-18.81
3.348	0.03	32.04	25.79	32.07	25.82	56.00	46.00	-23.93	-20.18
5.061	0.07	19.36	7.06	19.43	7.13	60.00	50.00	-40.57	-42.87
5.294	0.07	18.63	7.49	18.70	7.56	60.00	50.00	-41.30	-42.44
28.356	0.61	35.30	27.65	35.91	28.26	60.00	50.00	-24.09	-21.74

NOTE :

1. Measurement uncertainty is 3.61dB
2. Emission level = Reading valus + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
   Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin value = Emission level - Limit
5. The emission of other frequencies was very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

Temperature:	20 ˚C	Humidity:	65 %RH
Tested By:	Leo Yang	Tested Mode:	Standby
Receiver Detector:	Q.P. and AV.	Modulation Type:	
Frequency Range:	0.15 – 30 MHz	Tested Date:	Feb. 07, 2014

Power Line Measured : Line

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dBμV)		Emission Level (dBμV)		Limit (dBμV)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.543	-0.05	29.23	13.07	29.18	13.02	56.00	46.00	-26.82	-32.98
4.418	0.02	20.47	7.41	20.49	7.43	56.00	46.00	-35.51	-38.57
4.477	0.02	20.55	7.11	20.57	7.13	56.00	46.00	-35.43	-38.87
5.183	0.04	21.99	7.84	22.03	7.88	60.00	50.00	-37.97	-42.12
5.619	0.05	21.69	7.86	21.74	7.91	60.00	50.00	-38.26	-42.09
22.165	0.36	21.85	10.95	22.21	11.31	60.00	50.00	-37.79	-38.69

Power Line Measured : Neutral

Freq. (MHz)	Correct. Factor (dB)	Reading Value (dBμV)		Emission Level (dBμV)		Limit (dBμV)		Margin (dB)	
		Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
0.492	-0.01	31.67	22.21	31.66	22.20	56.14	46.14	-24.48	-23.94
0.495	-0.01	32.19	23.82	32.18	23.81	56.09	46.09	-23.91	-22.28
0.504	-0.01	31.25	20.24	31.24	20.23	56.00	46.00	-24.76	-25.77
1.398	0.00	20.47	9.22	20.47	9.22	56.00	46.00	-35.53	-36.78
5.000	0.07	20.24	7.08	20.31	7.15	56.00	46.00	-35.69	-38.85
23.907	0.49	22.65	10.87	23.14	11.36	60.00	50.00	-36.86	-38.64

NOTE :

1. Measurement uncertainty is 3.61dB
2. Emission level = Reading valus + Correction factor
3. Correction Factor = Cable loss + Insertion loss of LISN
   Difference of Pulse Limiter Factor between EMI Test Receiver corrected 10dB insertion loss.
4. Margin value = Emission level - Limit
5. The emission of other frequencies was very low against the limit.
6. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

4.2 RADIATED EMISSION TEST

4.2.1 LIMIT

FCC Part15, Subpart C Section 15.209 limit of radiated emission for frequency below1000MHz. The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCY (MHz)	DISTANCE (m)	FIELD STRENGTH (dBμV/m)
0.009 - 0.490	300	2400/F(KHz)
0.490 - 1.705	30	24000/F(KHz)
1.705 - 30	30	30
30 - 88	3	40.0
88 - 216	3	43.5
216 - 960	3	46.0
Above 960	3	54.0

NOTE:

1. 30 dBuV (in 30m) = 70 dBuV (in 3m).
2. In the emission tables above , the tighter limit applies at the band edges.
3. Distance refers to the distance between measuring instrument, antemma, and the closest point of any part of the device or system.

4.2.2 TEST EQUIPMENT

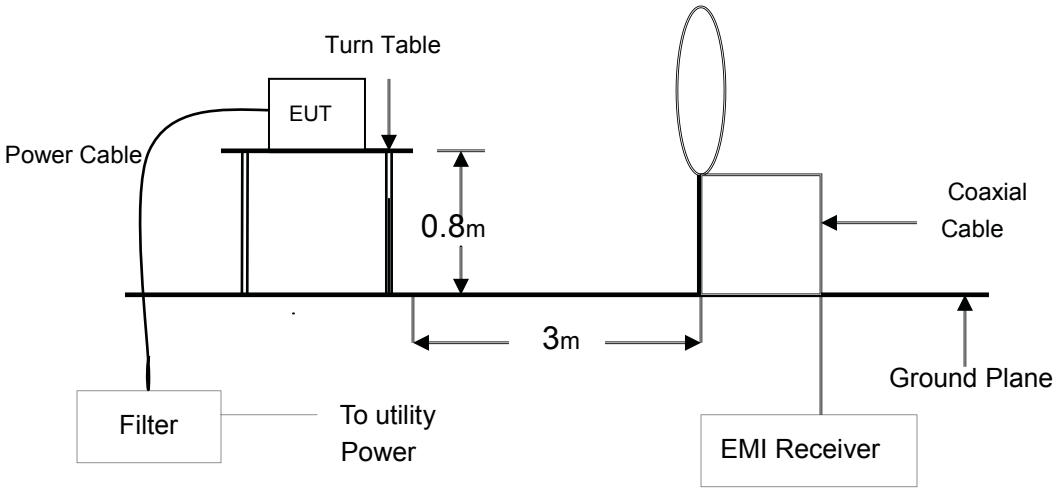
The following test equipment was used during the radiated emission test:

EQUIPMENT/ FACILITIES	SPECIFICATIONS	MANUFACTURER	MODEL#/ SERIAL#	DUE DATE OF CAL. & CAL. CENTER
EMI TEST RECEIVER	9 kHz ~ 2.75 GHz	ROHDE & SCHWARZ	ESCS30 / 100376	JAN. 12, 2015 ETC
EMI TEST RECEIVER	20 MHz ~ 1000 MHz	ROHDE & SCHWARZ	ESVS30 / 841977/003	DEC. 08, 2014 ETC
SPECTRUM ANALYZER	9 kHz ~ 7GHz	ROHDE & SCHWARZ	FSP7 / 100289	APR. 12, 2014 ETC
SPECTRUM ANALYZER	9 kHz ~ 40GHz	ROHDE & SCHWARZ	FSP40 / 100093	DEC 08, 2014 ETC
LOOP ANTENNA	9 kHz ~ 30 MHz	ETS.LINDGREN	HFH2-Z2/ 860605/002 (1162 1/2)	MAR. 06, 2014 ETC
BI-LOG ANTENNA	30 MHz ~ 2 GHz	SCHAFFNER	CBL6141A / 4181	JUN. 25, 2014 ETC
HORN ANTENNA	1 GHz ~ 18 GHz	EMCO	3115/ 9602-4681	DEC. 12, 2014 ETC
HORN ANTENNA	18 ~ 40 GHZ	ETS-LINDGREN	3116 /00032255	JAN. 10, 2015 ETC
PRE-AMPLIFIER	1 GHz ~ 26.5 GHz	AGILENT	8449B/ 3008A01995	DEC. 10, 2014 ETC
OPEN AREA TEST SITE	3 – 10 M MEASUREMENT	SRT	A02 / SRT002	MAR. 09, 2014 SRT
ANECHOIC CHAMBER	3 M MEASUREMENT	SRT	A01 / SRT001	MAY 13, 2014 SRT
COAXIAL CABLE	30 M	TIMES	LMR-400 / #30M(L1TCAB014)	MAY. 21, 2014 ETC
RF CABLE	UP TO 18 GHz 1.5 m	JYEBAO	A30A30-L 142 / EQF-0035(001)	DEC. 11, 2014 ETC
RF CABLE	UP TO 18 GHz 3.5 m	JYEBAO	A30A30-L 142 / EQF-0036(002)	DEC. 11, 2014 ETC
K-TYPE CABLE	UP TO 40 GHz 3 m	HUBER+SUHNER	SF102-46/2*11SK 252 /MY2611/2	MAR. 07, 2014 ETC
K-TYPE CABLE	UP TO 40 GHz, 1 m	HUBER+SUHNER	SF 102-40/2*11 /23934/2	OCT. 20, 2014 ETC
FILTER	2 LINE, 30 A	FIL.COIL	FC-943/ 869	NCR
CDN	0.15 MHz ~ 300 MHz	LUTHI	CDN L-801 M2/M3 / 2790	MAY. 24, 2014 ETC

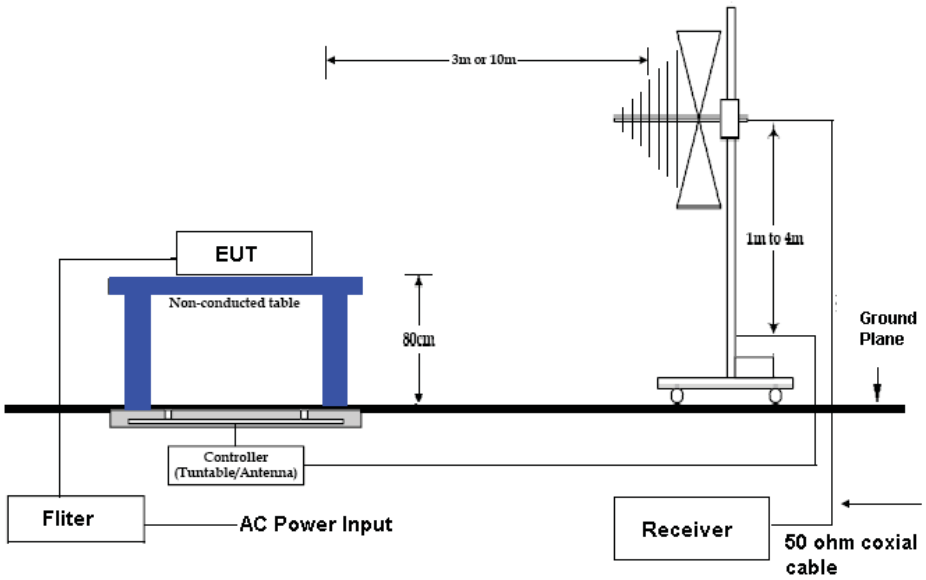
NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.2.3 TEST SETUP

9KHz ~ 30MHz



30 MHz ~ 1 GHz



4.2.4 TEST PROCEDURE

The EUT was tested according to the requirement of ANSI C63.4:2003 and CISPR 22:2003.

When the frequency spectrum measured started from 9 kHz to 30 MHz, then use antenna is a loop antenna.

The measurements were made at an open area test site with 3 meter measurement distance under 1 GHz and with 3m distance above 1GHz.

The frequency spectrum measured started from 9 kHz to 30MHz and 30 MHz to 1 GHz, all readings were quasi-peak values with 120 kHz resolution bandwidth of the test receiver.

The EUT system was operated in all typical methods by users.

The cables connected to EUT and support units were moved to find the maximum emission levels for each frequency.

First, find the margin or higher points at least 6 points by software, then use manual to find the maximum data.

The procedure is referred on the test procedure of SRT LAB.

4.2.5 TEST RESULT

Temperature:	20 °C	Humidity:	65 %RH
Frequency Range:	9 kHz – 30 MHz	Measured Distance:	3 m
Receiver Detector:	AV.	Tested Mode:	Link
Tested By:	Leo Yang	Tested Date:	Feb. 21, 2014

Frequency (MHz)	Cable Loss (dB)	Ant. Fac. (dB/m)	Reading (dBμV)	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
0.16(F)	0.07	19.97	33.52	53.56	103.00	-49.44
2.83	0.29	20.20	13.90	34.39	70.00	-35.61
18.00	0.73	20.90	12.61	34.24	70.00	-35.76
24.03	0.83	21.20	13.03	35.07	70.00	-34.93
26.13	0.87	21.31	12.99	35.16	70.00	-34.84
28.68	0.91	21.43	11.02	33.36	70.00	-36.64

Temperature:	20 °C	Humidity:	65 %RH
Frequency Range:	9 kHz – 30 MHz	Measured Distance:	3 m
Receiver Detector:	AV.	Tested Mode:	Standby
Tested By:	Leo Yang	Tested Date:	Feb. 21, 2014

Frequency (MHz)	Cable Loss (dB)	Ant. Fac. (dB/m)	Reading (dBμV)	Emission (dBμV/m)	Limit (dBμV/m)	Margin (dB)
0.16(F)	0.07	19.97	40.32	60.36	103.00	-42.64
18.00	0.73	20.90	12.97	34.60	70.00	-35.40
24.03	0.83	21.20	12.51	34.55	70.00	-35.45
26.04	0.87	21.30	11.52	33.69	70.00	-36.31
27.03	0.88	21.35	14.32	36.55	70.00	-33.45
29.10	0.92	21.45	11.59	33.96	70.00	-36.04

Temperature:	25 °C	Humidity:	64 %RH
Frequency Range:	30 M – 1 GHz	Tested Mode:	Link
Receiver Detector:	Q.P.	Modulation Type:	
Tested By:	Leo Yang	Tested Date:	Feb. 07, 2014

Antenna Polarization：Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
72.58	1.36	8.14	17.72	27.22	40.0	-12.78	332	3.38
155.23	1.96	12.25	14.39	28.60	43.5	-14.90	104	3.24
198.88	2.24	11.60	20.08	33.92	43.5	-9.58	284	3.09
248.35	2.56	12.90	17.57	33.03	46.0	-12.97	144	2.64
274.34	2.71	13.30	16.94	32.95	46.0	-13.05	98	2.52
358.93	3.20	15.39	11.93	30.53	46.0	-15.47	63	2.48

Antenna Polarization：Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
53.38	1.19	13.19	11.99	26.37	40.0	-13.63	118	1.04
79.57	1.41	8.28	21.16	30.85	40.0	-9.15	99	1.16
156.20	1.97	12.20	12.83	27.00	43.5	-16.50	48	2.44
200.52	2.25	11.80	7.96	22.01	43.5	-21.49	166	2.58
250.29	2.57	13.00	10.27	25.84	46.0	-20.16	215	3.11
725.31	5.03	21.35	3.22	29.60	46.0	-16.40	270	3.59

NOTE :
1. Measurement uncertainty is 4.73dB.
2. "*": Measurement does not apply for this frequency.
3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

Temperature:	25 °C	Humidity:	64 %RH
Frequency Range:	30 M – 1 GHz	Tested Mode:	Standby
Receiver Detector:	Q.P.	Modulation Type:	
Tested By:	Leo Yang	Tested Date:	Feb. 07, 2014

Antenna Polarization：Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
71.81	1.35	8.12	24.51	33.98	40.0	-6.02	65	3.81
155.23	1.96	12.25	10.66	24.87	43.5	-18.63	249	3.38
188.31	2.18	10.74	15.77	28.69	43.5	-14.81	138	3.22
232.88	2.45	12.34	17.52	32.31	46.0	-13.69	286	2.64
283.61	2.77	13.33	12.54	28.64	46.0	-17.36	122	2.56
316.05	2.96	14.38	9.52	26.86	46.0	-19.14	79	2.41

Antenna Polarization：Vertical

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Reading Data (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	AZ(°)	EL(m)
57.26	1.22	11.71	19.07	32.00	40.0	-8.00	33	1.18
71.81	1.35	8.12	26.34	35.81	40.0	-4.19	161	1.19
223.63	2.40	13.07	13.12	28.59	46.0	-17.41	284	2.51
379.51	3.32	15.90	19.61	38.83	46.0	-7.17	71	2.65
514.15	4.04	18.20	9.01	31.25	46.0	-14.75	258	3.21
633.43	4.60	20.19	9.12	33.91	46.0	-12.09	135	3.44

NOTE :

1. Measurement uncertainty is 4.73dB.
2. "*": Measurement does not apply for this frequency.
3. Emissiom Level = Reading Value + Ant. Factor + Cable Loss.
4. The field strength of other emission frequencies were very low against the limit.

5. Antenna application

5.1 Antenna requirement

The EUT's antenna is met the requirement of FCC part15C section15.203 and 15.204.

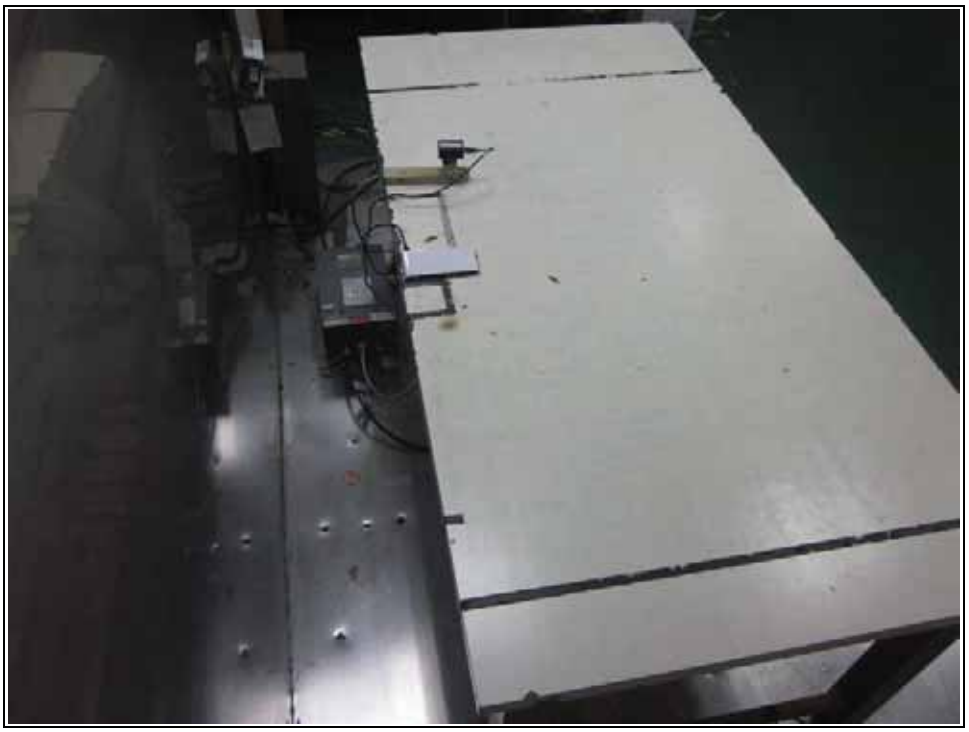
5.2 Result

The EUT's antenna used a coil antenna.

6. PHOTOS OF TESTING

- Conducted test (Link)

- Conducted test (Standby)



- Radiated test (below 30M , Link)

- Radiated test (below 30M , Standby)

- Radiated test (below 1G , Link)

- Radiated test (below 1G , Standby)

7. TERMS OF ABBREVIATION

AV.	Average detection
AZ(°)	Turn table azimuth
Correct.	Correction
EL(m)	Antenna height (meter)
EUT	Equipment Under Test
Horiz.	Horizontal direction
LISN	Line Impedance Stabilization Network
NSA	Normalized Site Attenuation
Q.P.	Quasi-peak detection
SRT Lab	Spectrum Research & Testing Laboratory, Inc.
Vert.	Vertical direction