

Global United Technology Services Co., Ltd.

Report No.: GTSE14090160301

FCC REPORT

Applicant: iDevices, LLC

136 Simsbury Rd, Building 12 Avon, CT 06001 United States **Address of Applicant:**

Equipment Under Test (EUT)

iShower² **Product Name:**

Model No.: ISH0001

Trade Mark: iDevices LLC

FCC ID: 2ABDJ-IDEV08

FCC CFR Title 47 Part 15 Subpart C Section 15.247:2013 **Applicable standards:**

Date of sample receipt: September 27, 2014

Date of Test: October 11-13, 2014

Date of report issued: October 13, 2014

Test Result: PASS *

Authorized Signature:

Robinson Lo **Laboratory Manager**

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



Version 2

Version No.	Date	Description
00	October 13, 2014	Original

Prepared By:	Edward.Pan	Date:	October 13, 2014
	Project Engineer		
Check By:	hank. yan	Date:	October 13, 2014
	Reviewer		

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	NA
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.

NA: Not applicable

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5 General Information

5.1 Client Information

Applicant:	iDevices, LLC
Address of Applicant:	136 Simsbury Rd, Building 12 Avon, CT 06001 United States
Manufacturer:	DongGuan Q & S Manufacturing Co. Ltd
Address of Manufacturer:	Yin Shan Industrial District, Fu Gang Village, Xiang Mang West Road, Qing Xi Town, Dongguan City, Guang Dong Province, China

5.2 General Description of EUT

Product Name:	iShower ²
Model No.:	ISH0001
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	Integral Antenna
Antenna Gain:	2.5dBi (declare by Applicant)
Power Supply:	DC 4.5V(3*1.5V "AA" Size Battery)

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Operation F	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
			• !	• !	• !		• !
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz

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5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode		
Remark: During the test, the new battery was used.			

5.4 Description of Support Units

None

5.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen,

China

Tel: 0755-27798480 Fax: 0755-27798960

Global United Technology Services Co., Ltd.

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

Shenzhen, China 518102

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6 Test Instruments list

Radi	Radiated Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 29 2014	Mar. 28 2015
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Jul. 01 2014	Jun 30 2015
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 01 2014	Jun 30 2015
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jul. 01 2014	Jun 30 2015
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 29 2014	Mar. 28 2015
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 29 2014	Mar. 28 2015
11	Coaxial cable	GTS	N/A	GTS210	Mar. 29 2014	Mar. 28 2015
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 29 2014	Mar. 28 2015
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 01 2014	Jun. 30, 2015
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 01 2014	Jun. 30, 2015
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015
16	Band filter	Amindeon	82346	GTS219	Mar. 29 2014	Mar. 28 2015
17	Power Meter	Anritsu	ML2495A	GTS540	July 01 2014	June 30 2015
18	Power Sensor	Anritsu	MA2411B	GTS541	July 01 2014	June 30 2015

Gen	General used equipment:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 08 2014	July 07 2015

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7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

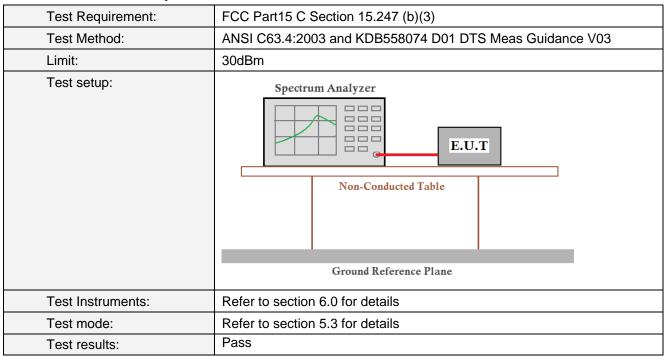
The antenna is Integral Antenna, the best case gain of the antenna is 2.5dBi





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7.2 Conducted Output Power



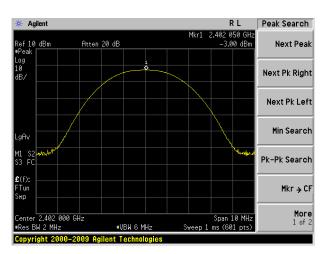
Measurement Data

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	-3.00		
Middle	Middle -2.72		Pass
Highest	-2.51		

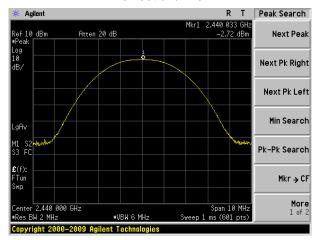


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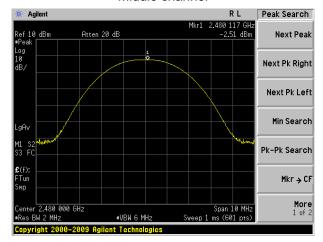
Test plot as follows:



Lowest channel



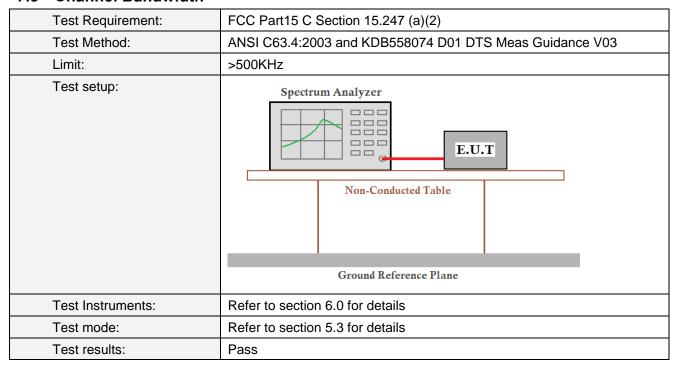
Middle channel



Highest channel



7.3 Channel Bandwidth



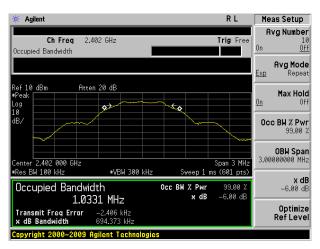
Measurement Data

Test channel	Channel Bandwidth (KHz)	Limit(KHz)	Result
Lowest	694.373		
Middle	689.676	>500	Pass
Highest	695.248		

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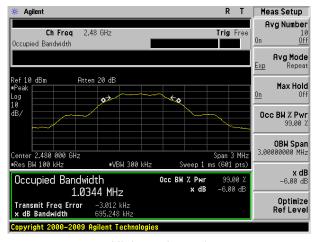
Test plot as follows:



Lowest channel



Middle channel

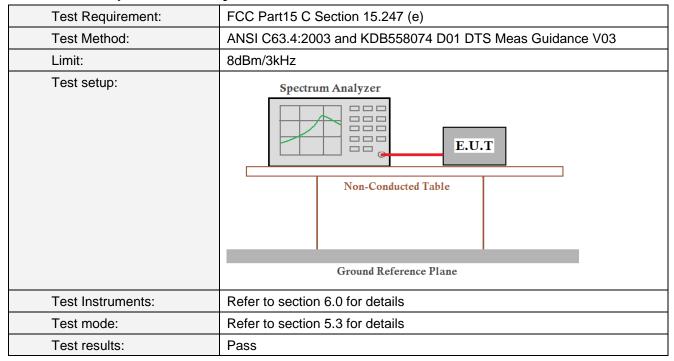


Highest channel

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7.4 Power Spectral Density



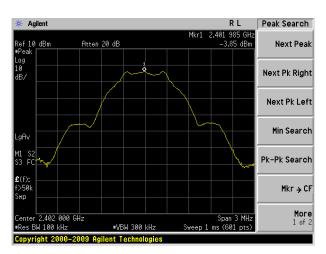
Measurement Data

Test channel	Power Spectral Density (dBm)	Limit(dBm/3kHz)	Result
Lowest	-3.85		
Middle	-3.62	8.00	Pass
Highest	-3.38		

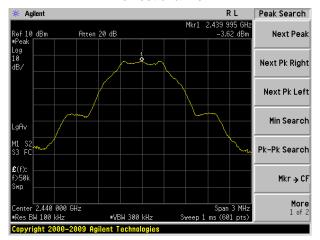
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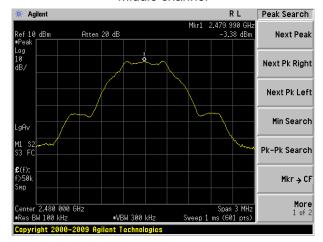
Test plot as follows:



Lowest channel



Middle channel



Highest channel

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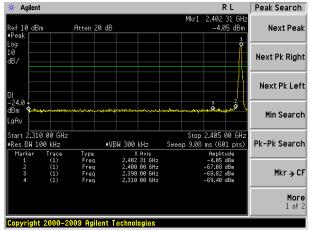


7.5 Band edges

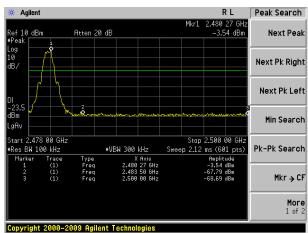
7.5.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

Test plot as follows:







Highest channel



7.5.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15,209	and 15,205			
Test Method:	ANSI C63.4: 20					
Test Frequency Range:			tested, only	the worst ba	and's (2310MHz to	
l con requeste, ranger	2500MHz) data		100100, 01,		(=0.10= 10	
Test site:	Measurement D					
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
rtoconton cottap.		Peak	1MHz	3MHz	Peak	
	Above 1GHz	RMS	1MHz	3MHz	Average	
Limit:	Freque	1	Limit (dBuV/		Value	
			54.0	, ,	Average	
	Above 1	GHz –	74.0		Peak	
Test setup:	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Amplifier Amplifier					
Test Procedure:	lurn 0.8m lm					
Test Instruments:	Refer to section					
Test mode:	Refer to section	5.3 for details	3			
Test results:	Pass					



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Measurement data:

Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	45.88	27.91	5.30	30.37	48.72	74.00	-25.28	Vertical
2390.00	45.54	27.59	5.38	30.18	48.33	74.00	-25.67	Vertical
2400.00	49.91	27.58	5.39	30.18	52.70	74.00	-21.30	Vertical
2310.00	45.97	27.91	5.30	30.37	48.81	74.00	-25.19	Horizontal
2390.00	45.90	27.59	5.38	30.18	48.69	74.00	-25.31	Horizontal
2400.00	47.17	27.58	5.39	30.18	49.96	74.00	-24.04	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	35.43	27.91	5.30	30.37	38.27	54.00	-15.73	Vertical
2390.00	35.07	27.59	5.38	30.18	37.86	54.00	-16.14	Vertical
2400.00	37.27	27.58	5.39	30.18	40.06	54.00	-13.94	Vertical
2310.00	35.42	27.91	5.30	30.37	38.26	54.00	-15.74	Horizontal
2390.00	35.12	27.59	5.38	30.18	37.91	54.00	-16.09	Horizontal
2400.00	35.98	27.58	5.39	30.18	38.77	54.00	-15.23	Horizontal



Test channel: Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	46.86	27.53	5.47	29.93	49.93	74.00	-24.07	Vertical
2500.00	44.83	27.55	5.49	29.93	47.94	74.00	-26.06	Vertical
2483.50	44.60	27.53	5.47	29.93	47.67	74.00	-26.33	Horizontal
2500.00	45.01	27.55	5.49	29.93	48.12	74.00	-25.88	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	34.81	27.53	5.47	29.93	37.88	54.00	-16.12	Vertical
2500.00	33.71	27.55	5.49	29.93	36.82	54.00	-17.18	Vertical
2483.50	34.87	27.53	5.47	29.93	37.94	54.00	-16.06	Horizontal
2500.00	33.65	27.55	5.49	29.93	36.76	54.00	-17.24	Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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7.6 Spurious Emission

7.6.1 Conducted Emission Method

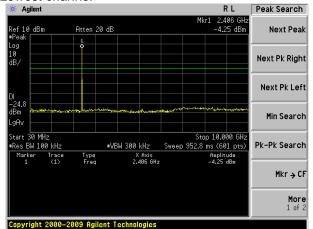
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

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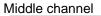


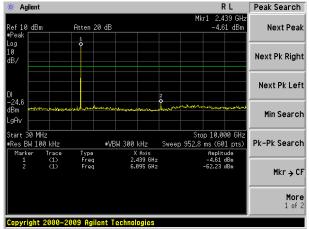
Test plot as follows:

Lowest channel



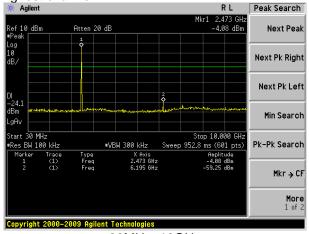
30MHz~10GHz



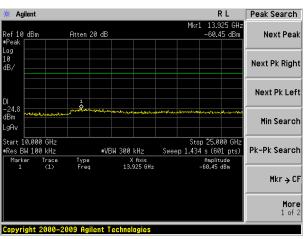


30MHz~10GHz

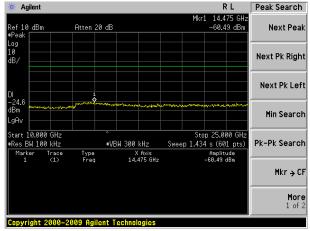
Highest channel



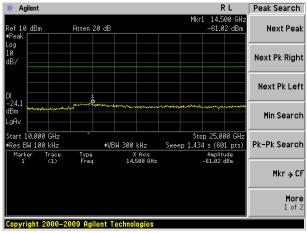
30MHz~10GHz



10GHz~25GHz



10GHz~25GHz



10GHz~25GHz



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209					
Test Method:	ANSI C63.4: 2003						
Test Frequency Range:	30MHz to 25GHz						
Test site:	Measurement Dis	stance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak		
	Above 1GHz	Peak	1MHz	3MHz	Peak		
	Above Toriz	RMS	1MHz	3MHz	Average		
Limit:	Frequen	icy L	imit (dBuV	/m @3m)	Value		
	30MHz-88	MHz	40.0	0	Quasi-peak		
	88MHz-216	6MHz	43.5	0	Quasi-peak		
	216MHz-96	0MHz	46.0	0	Quasi-peak		
	960MHz-1	GHz	54.0	00	Quasi-peak		
	Above 10	211-7	54.0	0	Average		
	Above 10	3112	74.00		Peak		
	RF Test Receiver						
	Above 1GHz						
	EUT 3m Turn Table 0.8m	4m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ho Spec Ans	rn Antenna ctrum dlyzer	1		
Test Procedure:	1. The EUT was	placed on the	top of a rot	ating table 0	.8 meters above		

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Shenzhen, China 518102

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	the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	 The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi- peak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis which it is worse case.

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Measurement Data

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
37.81	39.24	15.06	0.64	32.06	22.88	40.00	-17.12	Vertical
60.28	39.28	14.69	0.86	31.94	22.89	40.00	-17.11	Vertical
96.10	36.92	14.90	1.16	31.75	21.23	43.50	-22.27	Vertical
155.91	43.37	10.51	1.60	32.00	23.48	43.50	-20.02	Vertical
480.53	42.75	18.07	3.22	31.62	32.42	46.00	-13.58	Vertical
672.85	40.97	20.72	3.99	31.15	34.53	46.00	-11.47	Vertical
40.42	36.99	15.58	0.66	32.05	21.18	40.00	-18.82	Horizontal
59.86	36.55	14.71	0.86	31.94	20.18	40.00	-19.82	Horizontal
96.78	34.69	14.97	1.17	31.75	19.08	43.50	-24.42	Horizontal
236.65	37.43	13.93	2.05	32.16	21.25	46.00	-24.75	Horizontal
495.93	37.72	18.52	3.29	31.58	27.95	46.00	-18.05	Horizontal
878.32	36.19	22.87	4.77	31.21	32.62	46.00	-13.38	Horizontal



■ Above 1GHz

Test channel: Lowest								
Peak value:				•				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	36.06	31.78	8.60	32.09	44.35	74.00	-29.65	Vertical
7206.00	38.19	36.15	11.65	32.00	53.99	74.00	-20.01	Vertical
9608.00	36.27	37.95	14.14	31.62	56.74	74.00	-17.26	Vertical
12010.00	28.66	39.08	15.03	35.51	47.26	74.00	-26.74	Vertical
14412.00	*					74.00		Vertical
4804.00	36.33	31.78	8.60	32.09	44.62	74.00	-29.38	Horizontal
7206.00	42.53	36.15	11.65	32.00	58.33	74.00	-15.67	Horizontal
9608.00	30.73	37.95	14.14	31.62	51.20	74.00	-22.80	Horizontal
12010.00	29.03	39.08	15.03	35.51	47.63	74.00	-26.37	Horizontal
14412.00	*					74.00		Horizontal

Average value:

Average var	uc.							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	26.62	31.78	8.60	32.09	34.91	54.00	-19.09	Vertical
7206.00	28.41	36.15	11.65	32.00	44.21	54.00	-9.79	Vertical
9608.00	26.46	37.95	14.14	31.62	46.93	54.00	-7.07	Vertical
12010.00	18.77	39.08	15.03	35.51	37.37	54.00	-16.63	Vertical
14412.00	*					54.00		Vertical
4804.00	26.76	31.78	8.60	32.09	35.05	54.00	-18.95	Horizontal
7206.00	32.51	36.15	11.65	32.00	48.31	54.00	-5.69	Horizontal
9608.00	21.54	37.95	14.14	31.62	42.01	54.00	-11.99	Horizontal
12010.00	18.29	39.08	15.03	35.51	36.89	54.00	-17.11	Horizontal
14412.00	*					54.00		Horizontal

Remark:

Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
 "*", means this data is the too weak instrument of signal is unable to test.



Test channel	:			M	liddle			
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	38.21	31.85	8.66	32.12	46.60	74.00	-27.40	Vertical
7320.00	36.84	36.37	11.72	31.89	53.04	74.00	-20.96	Vertical
9760.00	31.71	38.35	14.25	31.59	52.72	74.00	-21.28	Vertical
12200.00	29.39	38.92	15.14	35.65	47.80	74.00	-26.2	Vertical
14640.00	*					74.00		Vertical
4880.00	36.58	31.85	8.66	32.12	44.97	74.00	-29.03	Horizontal
7320.00	41.22	36.37	11.72	31.89	57.42	74.00	-16.58	Horizontal
9760.00	30.56	38.35	14.25	31.59	51.57	74.00	-22.43	Horizontal
12200.00	28.28	38.92	15.14	35.65	46.69	74.00	-27.31	Horizontal
14640.00	*					74.00		Horizontal
Average val	ue:						•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	27.90	31.85	8.66	32.12	36.29	54.00	-17.71	Vertical
7320.00	31.69	36.37	11.72	31.89	47.89	54.00	-6.11	Vertical
9760.00	20.79	38.35	14.25	31.59	41.80	54.00	-12.20	Vertical
12200.00	18.86	38.92	15.14	35.65	37.27	54.00	-16.73	Vertical
14640.00	*					54.00		Vertical
4880.00	28.20	31.85	8.66	32.12	36.59	54.00	-17.41	Horizontal
7320.00	26.97	36.37	11.72	31.89	43.17	54.00	-10.83	Horizontal
9760.00	22.13	38.35	14.25	31.59	43.14	54.00	-10.86	Horizontal
12200.00	19.41	38.92	15.14	35.65	37.82	54.00	-16.18	Horizontal
14640.00	*					54.00		Horizontal

Remark:

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^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test channel	l:			Hig	hest			
Peak value:			_					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	34.97	31.93	8.73	32.16	43.47	74.00	-30.53	Vertical
7440.00	33.88	36.59	11.79	31.78	50.48	74.00	-23.52	Vertical
9920.00	33.09	38.81	14.38	31.88	54.40	74.00	-19.60	Vertical
12400.00	28.66	38.76	15.27	35.27	47.42	74.00	-26.58	Vertical
14880.00	*					74.00		Vertical
4960.00	33.91	31.93	8.73	32.16	42.41	74.00	-31.59	Horizontal
7440.00	39.29	36.59	11.79	31.78	55.89	74.00	-18.11	Horizontal
9920.00	28.94	38.81	14.38	31.88	50.25	74.00	-23.75	Horizontal
12400.00	29.66	38.76	15.27	35.27	48.42	74.00	-25.58	Horizontal
14880.00	*					74.00		Horizontal
Average val	ue:		•				•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	25.04	31.93	8.73	32.16	33.54	54.00	-20.46	Vertical
7440.00	24.56	36.59	11.79	31.78	41.16	54.00	-12.84	Vertical
9920.00	23.72	38.81	14.38	31.88	45.03	54.00	-8.97	Vertical
12400.00	19.20	38.76	15.27	35.27	37.96	54.00	-16.04	Vertical
14880.00	*					54.00		Vertical
4960.00	23.76	31.93	8.73	32.16	32.26	54.00	-21.74	Horizontal
7440.00	29.36	36.59	11.79	31.78	45.96	54.00	-8.04	Horizontal
9920.00	19.53	38.81	14.38	31.88	40.84	54.00	-13.16	Horizontal
12400.00	19.58	38.76	15.27	35.27	38.34	54.00	-15.66	Horizontal
14880.00	*					54.00		Horizontal

Remark:

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^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

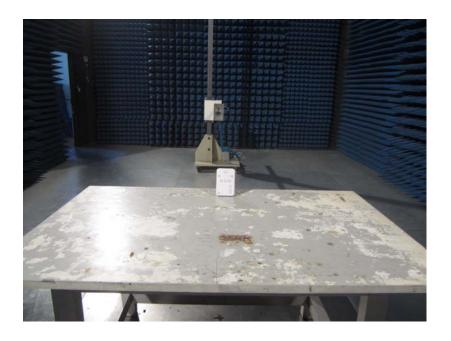
^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







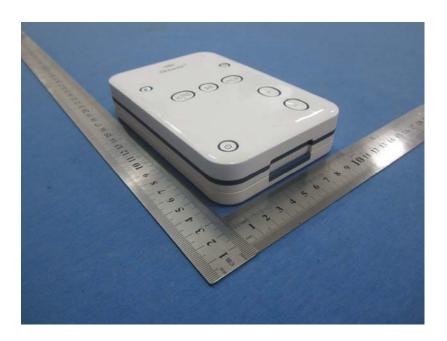
9 EUT Constructional Details





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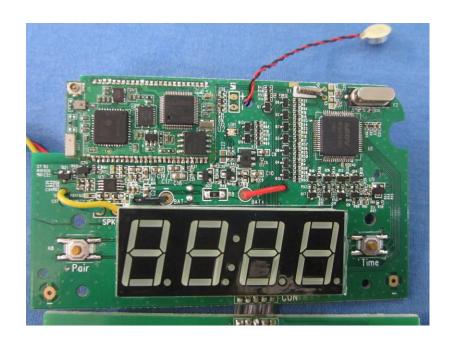






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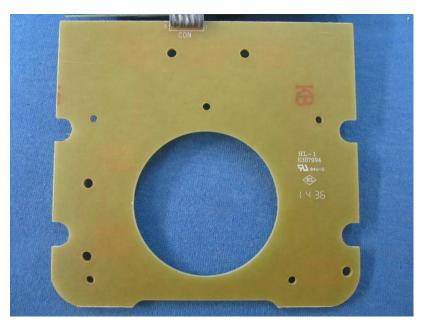












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