



# **FCC 47 CFR PART 15 SUBPART B**

## **TEST REPORT**

*For*

**Applicant : TZT USA INDUSTRIES INC.**

**Address : 15520 ROCKFIELD BLVD, STE. B, IRVINE CA 92618**

**Product Name : Wireless Slate**

**Model Name : WS-10-01**

**Brand Name : N/A**

**FCC ID : UEOTZTWS1001V**

**Report No. : MOST100608F1**

**Date of Issue : June. 30, 2010**

**Issued by : Most Technology Service Co., Ltd.**

**Address : No.5, 2nd Langshan Road, North District, Hi-tech Industrial  
Park, Nanshan, Shenzhen, Guangdong, China**

**Tel : 86-755-8617 0306**

**Fax : 86-755-8617 0310**

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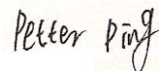
**1. VERIFICATION OF CONFORMITY**

**Equipment Under Test:** Wireless Slate  
**Brand Name:** N/A  
**Model Number:** WS-10-01  
**Series Number:** N/A  
**Model Difference description:** N/A  
**FCC ID:** UEOTZTWS1001V  
**Applicant:** TZT USA INDUSTRIES INC.  
15520 ROCKFIELD BLVD, STE. B, IRVINE CA 92618  
**Manufacturer:** TZT USA INDUSTRIES INC.  
15520 ROCKFIELD BLVD, STE. B, IRVINE CA 92618  
**Technical Standards:** FCC Part 15 B  
**File Number:** MOST100608F1  
**Date of test:** June. 18 ~ June. 30, 2010  
**Deviation:** None  
**Condition of Test Sample:** Normal  
**Test Result:** PASS

The above equipment was tested by MOST for compliance with the requirements set forth in FCC Part 15 and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

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

Tested by (+ signature):



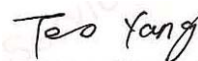
Petter Ping June. 30, 2010

Review by (+ signature):



July Wen June. 30, 2010

Approved by (+ signature):



Terry Yang June. 30, 2010

## 2. GENERAL INFORMATION

### 2.1 PRODUCT INFORMATION

<b>Housing Type:</b>	Plastic
<b>EUT Rating Voltage:</b>	DC 3.7V by battery/ DC 5V by the adapter (AC 100-240V 50/60Hz) /DC 5V by USB port
<b>Voltage During Test:</b>	AC 120V/60Hz
<b>I/O Type of EUT:</b>	USB Port
<b>I/O Q'TY:</b>	1
<b>Model Number:</b>	WS-10-01
<b>Series Number:</b>	N/A
<b>Description of Differences:</b>	N/A

**NOTE:**

1. Please refer to Appendix 2 for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

### 2.2 OBJECTIVE

Perform FCC Part 15 Subpart B tests for FCC Marking.

### 2.3 TEST STANDARDS AND RESULTS

Test items and the results are as bellow:

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B	Conducted	PASS	Meet Class B limit
	Radiated	PASS	Meet Class B limit

- Note:
1. The test result judgment is decided by the limit of measurement standard
  2. The information of measurement uncertainty is available upon the customer's request.

## 2.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

## 2.5 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO.

- Uncertainty of Conducted Emission,  $U_c = \pm 1.8\text{dB}$
- Uncertainty of Radiated Emission,  $U_c = \pm 3.2\text{dB}$

### 3. TEST METHODOLOGY

#### 3.1 TEST FACILITY

Test Site:	Most Technology Service Co.,ltd
Location:	No.5, Langshan 2nd Rd, North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China
Description:	<p>There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003 and CISPR 16 requirements. The FCC Registration Number is <b>490827</b>.</p> <p>The <b>CNAS</b> Registration Number is <b>CNAS L3573</b>.</p>
Site Filing:	The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.
Instrument Tolerance:	All measuring equipment is in accord with ANSI C63.4:2003 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency requirement.
Ground Plane:	Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of measurement up to 1GHz.

## 3.2 GENERAL TEST PROCEDURES

### Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2003, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

### Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable 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 maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2003.

## 4 SETUP OF EQUIPMENT UNDER TEST

### 4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

### 4.2 SUPPORT EQUIPMENT

Device Type	Brand	Model	Series No.	Data Cable	Power Cord
PC	Lenovo	T3900-SY2	SS05750640	N/A	1.8M Un-Shielded
MONITOR	Dell	E178FPc	CN-0WR979-64180-761-1S KS	1.6M Un-Shielded	1.8M Un-Shielded
KEYBOARD	Unis	WN10	WN10200807005590	1.6M Un-Shielded	N/A
MOUSE	Lenovo	M-UAE96	E-C011-05-3735(B)	1.6M Un-Shielded	N/A

*Remark:*

*All the equipment/cables were placed in the worst-case [-configuration to maximize the emission during the test.*

*Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.*



### 4. 3 TEST EQUIPMENT LIST

**Instrumentation:** The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibrator due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2011/03/14
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2011/03/14
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2011/03/14
4	Terminator	Hubersuhner	50Ω	No.1	2011/03/14
5	RF Cable	SchwarzBeck	N/A	No.1	2011/03/14
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2011/03/14
7	Bilog Antenna	Sunol	JB3	A121206	2011/03/14
8	Test Antenna - Horn	Schwarzbeck	BBHA 9120C	--	2011/03/14
9	Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	--	2011/03/14
10	Cable	Resenberger	N/A	NO.1	2011/03/14
11	Cable	SchwarzBeck	N/A	NO.2	2011/03/14
12	Cable	SchwarzBeck	N/A	NO.3	2011/03/14
13	DC Power Filter	DuoJi	DL2×30B	N/A	2011/03/14
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2011/03/14
15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2011/03/14
16	Test Receiver	Rohde & Schwarz	ESCI	100492	2011/03/14
17	Absorbing Clamp	Luthi	MDS21	3635	2011/03/14
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2011/03/14
19	AC Power Source	Kikusui	AC40MA	LM003232	2011/03/14
20	Test Analyzer	Kikusui	KHA1000	LM003720	2011/03/14
21	Line Impedance Network	Kikusui	LIN40MA-PCR-L	LM002352	2011/03/14
22	ESD Tester	Kikusui	KES4021	LM003537	2011/03/14
23	EMC PRO System	EM Test	UCS-500-M4	V0648102026	2011/03/14
24	Signal Generator	IFR	2032	203002/100	2011/03/14
25	Amplifier	A&R	150W1000	301584	2011/03/14
26	CDN	FCC	FCC-801-M2-25	47	2011/03/14
27	CDN	FCC	FCC-801-M3-25	107	2011/03/14
28	EM Injection Clamp	FCC	F-203I-23mm	403	2011/03/14
29	RF Cable	MIYAZAKI	N/A	No.1/No.2	2011/03/14
30	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2011/03/14
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2011/03/14

**NOTE:** Equipments listed above have been calibrated and are in the period of validation.

## **5. 47 CFR PART 15B REQUIREMENTS**

### **5.1 GENERAL INFORMATION**

#### **EUT Function and Test Mode**

The EUT has been tested under normal operating (TX) and standby (RX) condition.

The field strength of radiation emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

Based on client request, all normal using modes were tested but only the worst test data of the worst mode is reported by this report.

## 6. LINE CONDUCTED EMISSION TEST

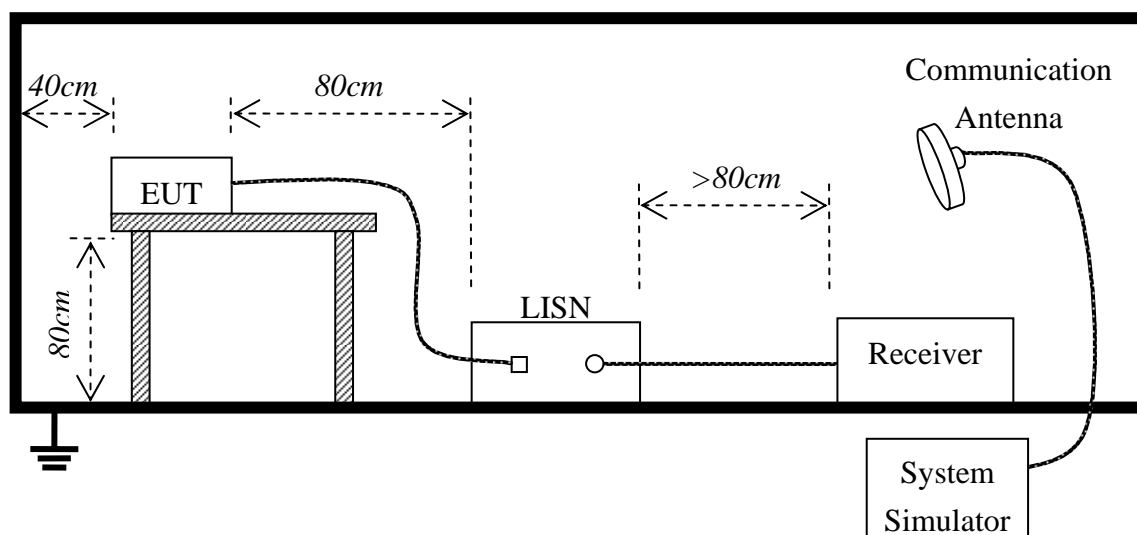
### 6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.( dBuV)	Average( dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

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

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

### 6.2. BLOCK DIAGRAM OF TEST SETUP



### 6.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per FCC Part 15.
- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

Preliminary Conducted Emission Test				
Frequency Range Investigated		150KHz TO 30 MHz		
Mode of operation	Date	Report No.	Data#	Worst Mode
Charging Mode	2010-06-25	MOST100608F1	WS-10-01_0_ ( L, N)	<input checked="" type="checkbox"/>
PC Mode	2010-06-25	MOST100608F1	WS-10-01_1_ ( L, N)	<input type="checkbox"/>

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 6.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

EUT and support equipment was set up on the test bench as per step 9 of the preliminary test.

A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

The test data of the worst case condition(s) was reported on the Summary Data page.

## 6.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

## Conducted Emission Measurement

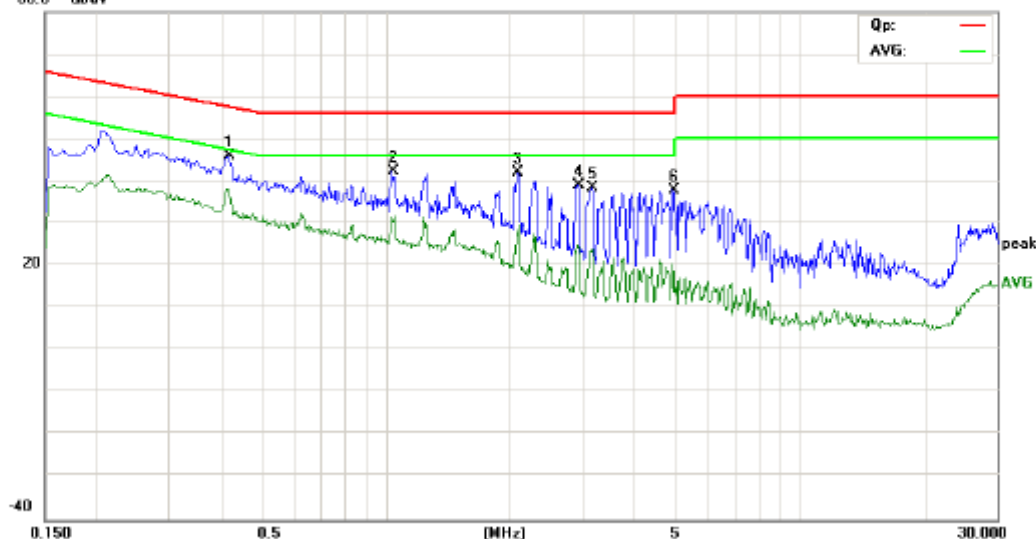
File: WS-10-01

Data: #3

Date: 10/06/25/

Time: 16:00:00

80.0 dBμV



Site site #1

Phase: **N**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Wireless Slate

M/N: WS-10-01

Mode: Charging Mode

Note:

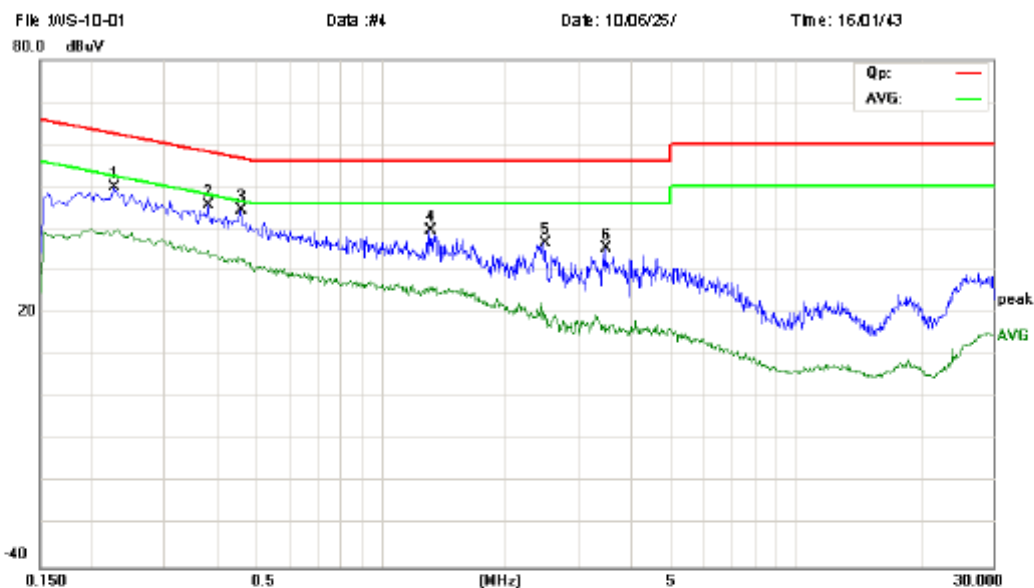
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBμV	dB	dBμV	dBμV	dB		
1	*	0.4180	35.39	10.55	45.94	57.49	-11.55	peak	
2		1.0420	32.47	9.96	42.43	56.00	-13.57	peak	
3		2.0820	32.87	9.08	41.95	56.00	-14.05	peak	
4		2.9100	29.05	9.91	38.96	56.00	-17.04	peak	
5		3.1460	28.18	10.15	38.33	56.00	-17.67	peak	
6		4.9300	26.07	11.93	38.00	56.00	-18.00	peak	

\*:Maximum data    x:Over limit    !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Conducted Emission Measurement



Site site #1

Phase: **L1**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Wireless Slate

M/N: WS-10-01

Mode: Charging Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2260	38.13	11.83	49.96	62.60	-12.64	peak	
2		0.3820	34.99	10.79	45.78	58.24	-12.46	peak	
3	*	0.4580	34.22	10.28	44.50	56.73	-12.23	peak	
4		1.3100	29.97	9.69	39.66	56.00	-16.34	peak	
5		2.4860	27.09	9.49	36.58	56.00	-19.42	peak	
6		3.4740	25.10	10.47	35.57	56.00	-20.43	peak	

\*:Maximum data x:Over limit !:over margin

## 7. RADIATED EMISSION TEST

### 7.1. LIMITS OF RADIATED DISTURBANCES AT 3M DISTANCES FOR CLASS B

According to FCC section 15.249(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

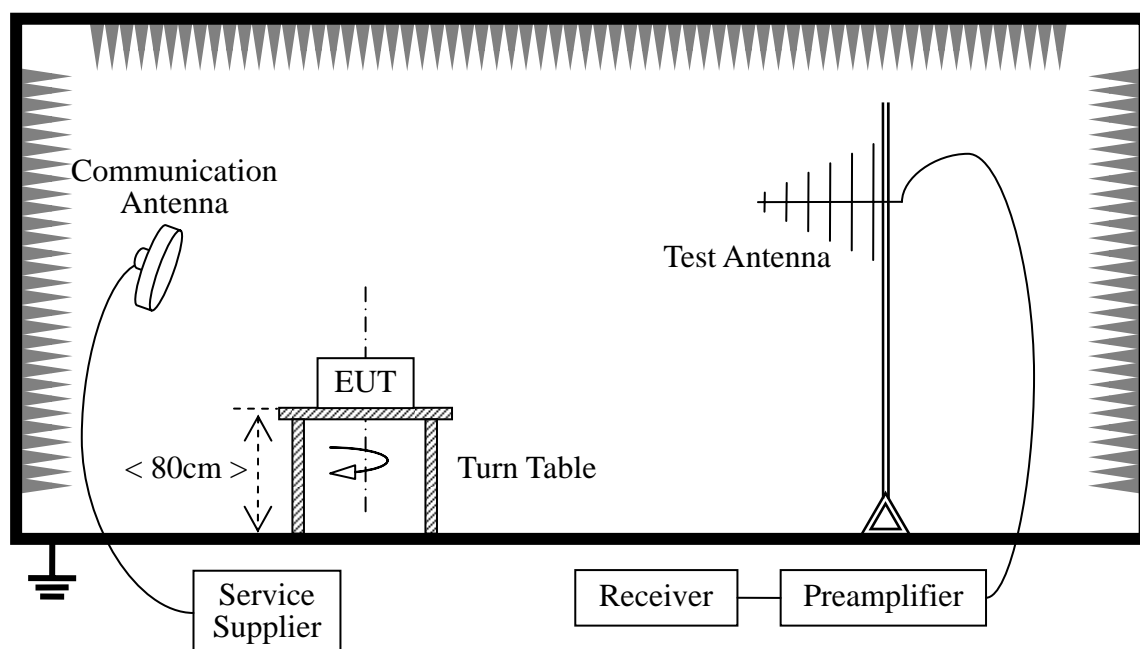
According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ( $\mu\text{V/m}$ )	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

### 7.2 TEST DESCRIPTION

#### Test Setup:



The EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading. During the measurement, the EUT is activated and transmitting with the other Bluetooth device (Supply by the Applicant) during the test.

For the Test Antenna:

- In the frequency range of 9 kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

Preliminary Radiated Emission Test				
Frequency Range Investigated			30 MHz TO 1000 MHz	
Mode of operation	Date	Report No.	Data#	Worst Mode
Charging Mode	2010-06-28	MOST100608F1	WS-10-01_0_( H, V)	<input type="checkbox"/>
PC Mode	2010-06-28	MOST100608F1	WS-10-01_1_( H, V)	<input checked="" type="checkbox"/>
Normal Working	2010-06-28	MOST100608F1	WS-10-01_2_( H, V)	<input type="checkbox"/>



## 7.3 TEST RESULT



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

## Radiated Emission Measurement

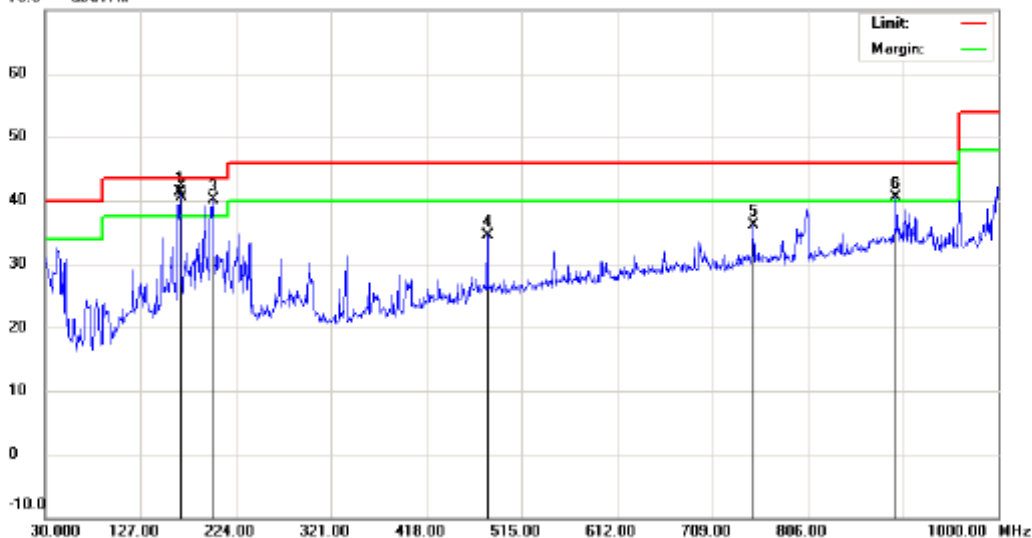
File: 301 Wireless Slate

Data: #1

Date: 2010-6-28

Time: 16:07:14

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Vertical**

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: DC 5V by USB port of PC

Humidity: 60 %

EUT: Wireless Slate

Distance:

M/N: WS-10-01

Mode: PC Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	*	167.7400	24.20	17.20	41.40	43.50	-2.10	peak		
2	!	168.0059	23.30	17.20	40.50	43.50	-3.00	QP		
3	!	200.7200	22.71	17.37	40.08	43.50	-3.42	peak		
4		480.0800	12.77	21.70	34.47	46.00	-11.53	peak		
5		750.7100	10.28	25.79	36.07	46.00	-9.93	peak		
6	!	896.2100	13.22	27.36	40.58	46.00	-5.42	peak		

\*:Maximum data    x:Over limit    !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Radiated Emission Measurement

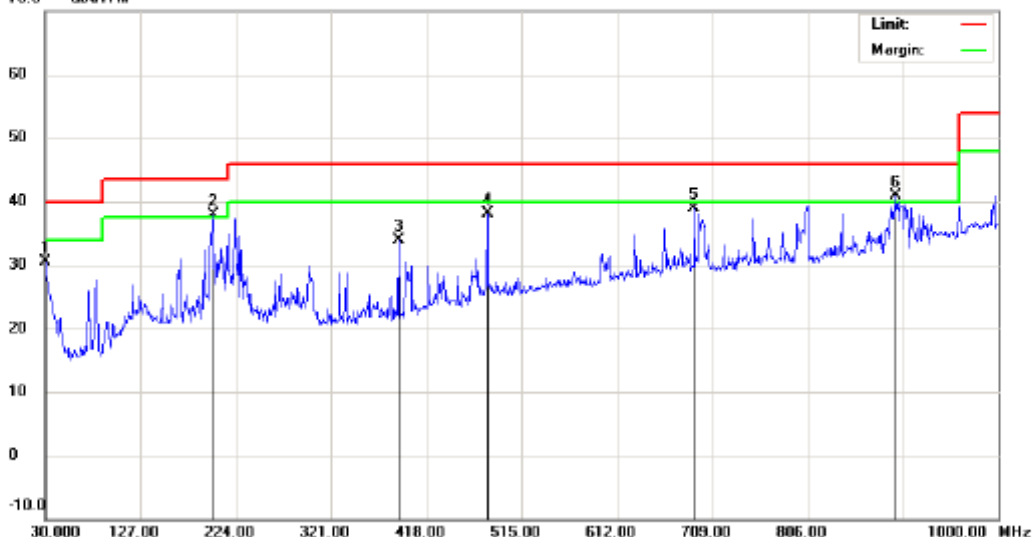
File: 30 Wireless Slate

Data: #2

Date: 2010-6-28

Time: 16:18:34

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Horizontal**

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: DC 5V by USB port of PC

Humidity: 60 %

EUT: Wireless Slate

Distance:

M/N: WS-10-01

Mode: PC Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	
1		30.0000	5.62	24.80	30.42	40.00	-9.58	peak		
2	!	200.7200	20.57	17.37	37.94	43.50	-5.56	peak		
3		389.8700	15.65	18.30	33.95	46.00	-12.05	peak		
4		480.0800	16.48	21.70	38.18	46.00	-7.82	peak		
5		690.5700	14.54	24.42	38.96	46.00	-7.04	peak		
6	*	896.2100	13.61	27.36	40.97	46.00	-5.03	peak		

\*:Maximum data    x:Over limit    !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

### Radiated Emission Measurement

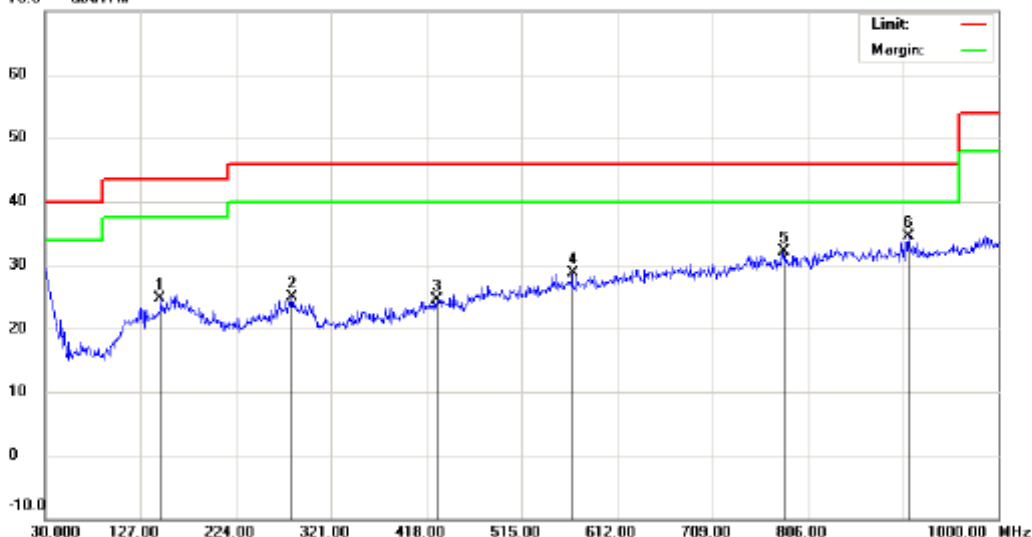
File: WS-10-01

Data: #8

Date: 2010-6-28

Time: 12:10:17

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Vertical**

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Wireless Slate

Distance:

M/N: WS-10-01

Mode: Charging Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		147.3700	7.92	16.71	24.63	43.50	-18.87	peak		
2		281.2300	5.47	19.41	24.88	46.00	-21.12	peak		
3		428.6700	4.19	20.30	24.49	46.00	-21.51	peak		
4		566.4099	5.97	22.79	28.76	46.00	-17.24	peak		
5		780.7799	5.87	26.18	32.05	46.00	-13.95	peak		
6	*	908.8200	6.87	27.58	34.45	46.00	-11.55	peak		

\*:Maximum data    x:Over limit    !:over margin



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### Radiated Emission Measurement

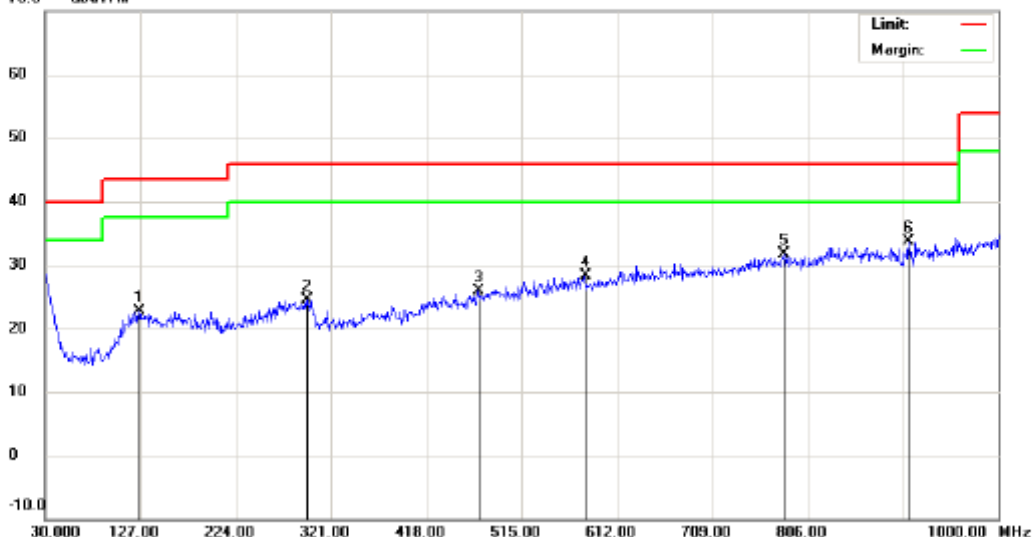
File: WS-10-01

Data: #9

Date: 2010-6-28

Time: 12:11:27

70.0 dBuV/m



Site: site MOST 3M

Polarization: *Horizontal*

Temperature: 25

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Wireless Slate

Distance:

M/N: WS-10-01

Mode: Charging Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		126.0300	5.05	17.70	22.75	43.50	-20.75	peak		
2		296.7500	5.21	19.30	24.51	46.00	-21.49	peak		
3		470.3800	4.75	21.22	25.97	46.00	-20.03	peak		
4		579.0200	5.36	22.88	28.24	46.00	-17.76	peak		
5		781.7500	5.63	26.16	31.79	46.00	-14.21	peak		
6	*	908.8200	6.15	27.58	33.73	46.00	-12.27	peak		

\*:Maximum data    x:Over limit    !:over margin

-----END OF REPORT-----