



FCC 47 CFR PART 15 SUBPART B

TEST REPORT

For

Applicant: TouchSquid Technology Inc.

Address: #1118-1124 Lonsdale Avenue, North Vancouver, BC V7M 3H6,
Canada

Product Name: 7"TouchSquid Tablet

Model Number: TS-781

Brand Name: TouchSquid

FCC ID: A38TS781

Report No.: MOST111102F1

Date of Issue: December. 15, 2011

Issued by: Most Technology Service Co., Ltd.

Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan,
Shenzhen, Guangdong, China

Tel: 86-755-8617 0306

Fax: 86-755-8617 0310

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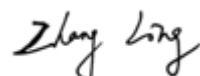
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1. VERIFICATION OF CONFORMITY**Equipment Under Test:** 7" TouchSquid Tablet**Model Number:** TS-781**Brand Name:** TouchSquid**FCC ID:** A38TS781**Applicant:** TouchSquid Technology Inc.**Applicant:** #1118-1124 Lonsdale Avenue, North Vancouver, BC V7M 3H6, Canada
SKYTEX TECHNOLOGY CO., LTD**Manufacturer:** Room 1615-1616, Dong Ming Building, Min Kang Road, Bao'An District, Shenzhen, China**Technical Standards:** FCC Part 15 B**File Number:** MOST111102F1**Date of test:** November. 12 - December. 11, 2011**Deviation:** None**Condition of Test Sample:** Normal

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):



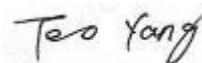
Zhang Ling December. 15, 2011

Review by (+ signature):



July Wen December. 15, 2011

Approved by (+ signature):



Terry Yang December. 15, 2011

2. GENERAL INFORMATION

2.1 PRODUCT INFORMATION

Equipment Under Test: 7" TouchSquid Tablet

Brand Name: TouchSquid

Model Name: TS-781

Series Number: N/A

Difference description: N/A

EUT Rating Voltage: DC: 3.7V by Li-ion Battery;
DC: 5V by AC Adapter(100V-240V 50/60Hz);

Voltage During Test: 120VAC 60Hz

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: 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 C63.4:2009 and CISPR 16 requirements. The FCC Registration Number is **490827**.
The **CNAS** Registration Number is **CNAS L3573**.

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 C63.4:2009 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 C63.4:2009, 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 C63.4:2009.

3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

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	2655 - 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)
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

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	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
PC	DELL	780MT	43ND8A00DC2	---	1.2M Un-shielding
MONITOR	Philips	220EW8FB/93	CJ2A0727038455	1.6M Un-Shielded	1.8M Un-Shielded
Keyboard	Unis	WN10	WN10200807005590	1.6M Un-Shielded	
Mouse	Lenovo	M-UAE96	E-C011-05-3735(B)	1.6M Un-Shielded	
Hard-disk	HITACHI	HTS541680J9SA00	0A28842DA15870P73	---	
Micro SD CARD	Kingston	1G	0907T139090	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	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2012/03/14
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2012/03/14
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2012/03/14
4	Terminator	Hubersuhner	50Ω	No.1	2012/03/14
5	RF Cable	SchwarzBeck	N/A	No.1	2012/03/14
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2012/03/14
7	Bilog Antenna	Sunol	JB3	A121206	2012/03/14
8	Test Antenna - Horn	Schwarzbeck	BBHA 9120C	--	2012/03/14
9	Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	--	2012/03/14
10	Cable	Resenberger	N/A	NO.1	2012/03/14
11	Cable	SchwarzBeck	N/A	NO.2	2012/03/14
12	Cable	SchwarzBeck	N/A	NO.3	2012/03/14
13	DC Power Filter	DuoJi	DL2×30B	N/A	2012/03/14
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2012/03/14
15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2012/03/14
16	Test Receiver	Rohde & Schwarz	ESCI	100492	2012/03/14
17	Absorbing Clamp	Luthi	MDS21	3635	2012/03/14
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2012/03/14
19	AC Power Source	Kikusui	AC40MA	LM003232	2012/03/14
20	Test Analyzer	Kikusui	KHA1000	LM003720	2012/03/14
21	Line Impedence Network	Kikusui	LIN40MA-PCR-L	LM002352	2012/03/14
22	ESD Tester	Kikusui	KES4021	LM003537	2012/03/14
23	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2012/03/14
24	Signal Generator	IFR	2032	203002/100	2012/03/14
25	Amplifier	A&R	150W1000	301584	2012/03/14
26	CDN	FCC	FCC-801-M2-25	47	2012/03/14
27	CDN	FCC	FCC-801-M3-25	107	2012/03/14
28	EM Injection Clamp	FCC	F-203I-23mm	403	2012/03/14
29	RF Cable	MIYAZAKI	N/A	No.1/No.2	2012/03/14
30	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2012/03/14
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2012/03/14

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 Test Procedure:

1. Put EUT on the test table.
2. Power on the EUT.
3. Make sure the EUT operates normally during the test.

Mode 1: Standby Mode

During the measurement, and the EUT was in charging Mode.

Mode 2: Full load Mode

During the measurement, the lithium battery was installed, and the system of EUT was running continuously.

Mode 3: USB Mode

During the measurement, the EUT was connected with the notebook and made the data transmission function continuously.

Mode 4: Camera Mode

During the measurement, the lithium battery was installed, and the MS was playing the camera function continuously.

Mode 5: Bluetooth Mode

During the measurement, the lithium battery was installed. and the MS was playing the bluetooth function continuously.

Mode 6: WiFi Mode

During the measurement, the lithium battery was installed. A communication link was established between the EUT and a System Simulator.

6. LINE CONDUCTED EMISSION TEST

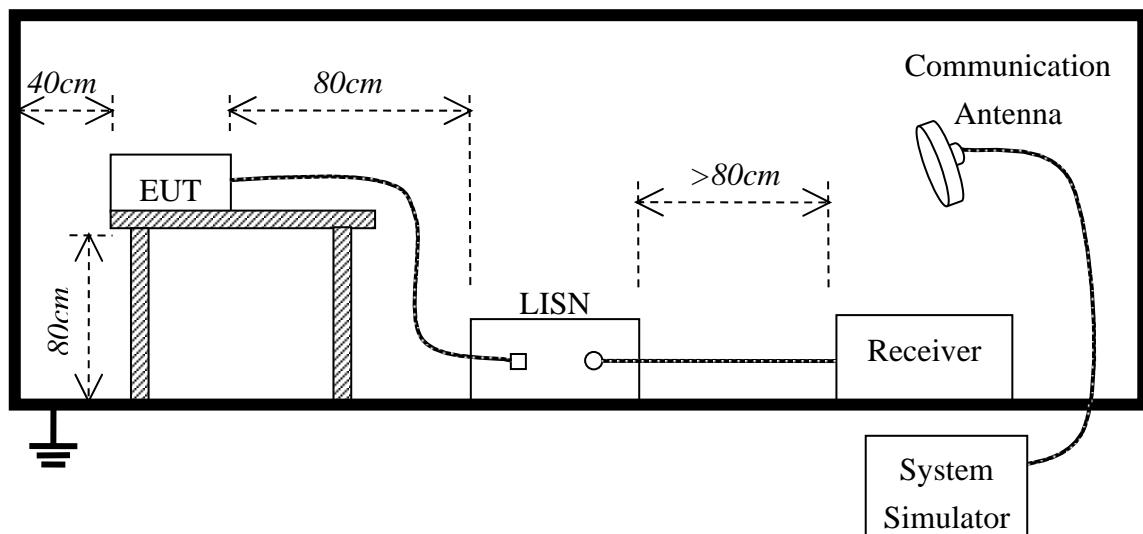
6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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 DC 5V by AC/DC adapter or DC 5V by USB port of the notebook which 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
Standby Mode	2011-11-12	MOST111102F1	TS-781_0_(L, N)	<input type="checkbox"/>
Full Load Mode	2011-11-12	MOST111102F1	TS-781_1_(L, N)	<input type="checkbox"/>
USB Mode	2011-11-12	MOST111102F1	TS-781_2_(L, N)	<input type="checkbox"/>
Camera Mode	2011-11-12	MOST111102F1	TS-781_3_(L, N)	<input checked="" type="checkbox"/>
Bluetooth Mode	2011-11-12	MOST111102F1	TS-781_4_(L, N)	<input type="checkbox"/>
WIFI Mode	2011-11-12	MOST111102F1	TS-781_5_(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 -20dB 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

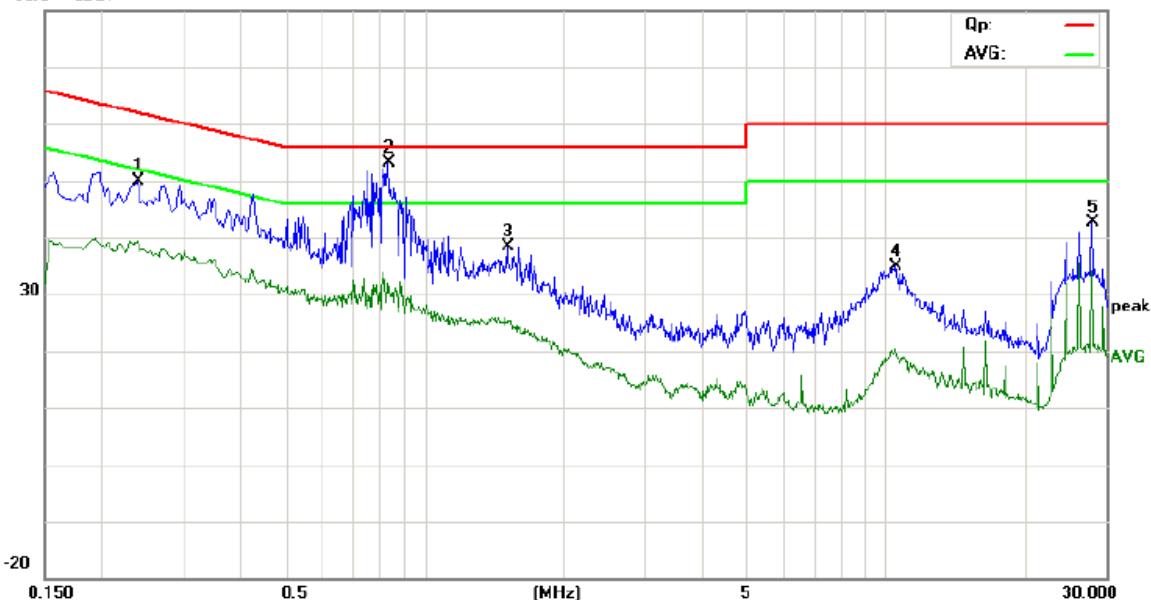
File : TS-781

Data : #12

Date: 11/11/12/

Time: 15:49:00

80.0 dBuV



Site: site #1

Phase: *L1*

Temperature: 26

Limit: EN55022 Class B QP

Power: AC 230V/50Hz

Humidity: 60 %

EUT: 7"Touchscreen tablet

M/N: TS-781

Mode: USB Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Comment						
								MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.2380	38.11	11.75	49.86	62.17	-12.31						peak	
2	*	0.8340	43.07	10.00	53.07	56.00	-2.93						peak	
3		1.5180	28.95	9.48	38.43	56.00	-17.57						peak	
4		10.4860	25.95	9.00	34.95	60.00	-25.05						peak	
5		27.9060	33.57	9.00	42.57	60.00	-17.43						peak	

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



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
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Conducted Emission Measurement

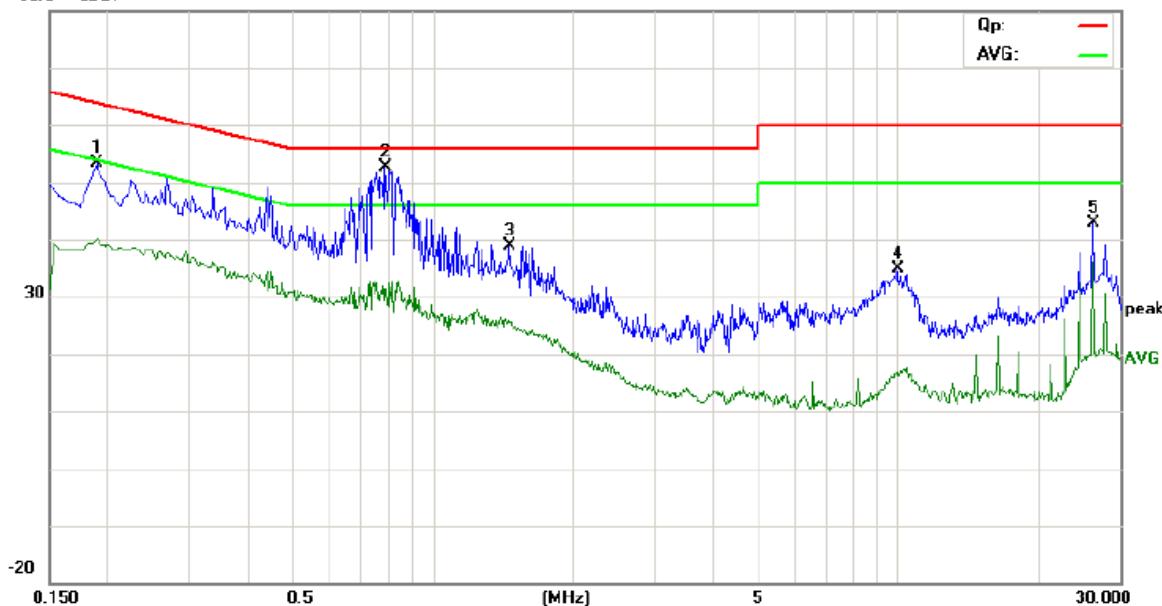
File : TS-781

Data : #11

Date: 11/11/12

Time: 15:47:07

80.0 dBuV



Site: site #1

Phase: *N*

Temperature: 26

Limit: EN55022 Class B QP

Power: AC 230V/50Hz

Humidity: 60 %

EUT: 7"Touchscreen tablet

M/N: TS-781

Mode: USB Mode

Note:

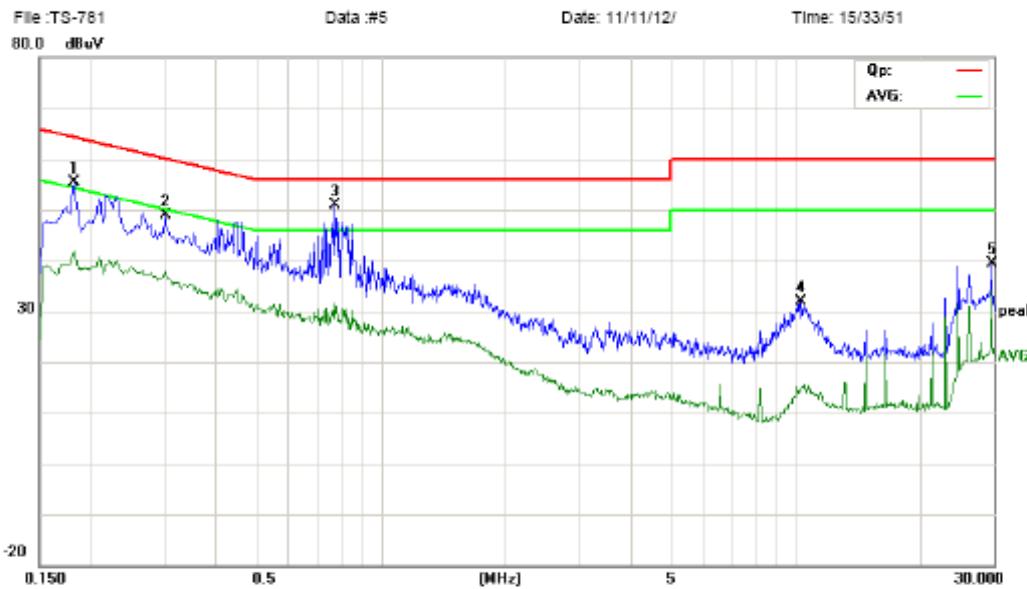
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		0.1900	41.90	11.40	53.30	64.04	-10.74	peak	
2	*	0.7900	42.57	10.00	52.57	56.00	-3.43	peak	
3		1.4620	29.35	9.54	38.89	56.00	-17.11	peak	
4		9.9580	25.81	9.03	34.84	60.00	-25.16	peak	
5		26.2580	33.96	9.00	42.96	60.00	-17.04	peak	

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



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 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: 7"Touchsquid tablet

M/N: TS-781

Mode: full load

Note:

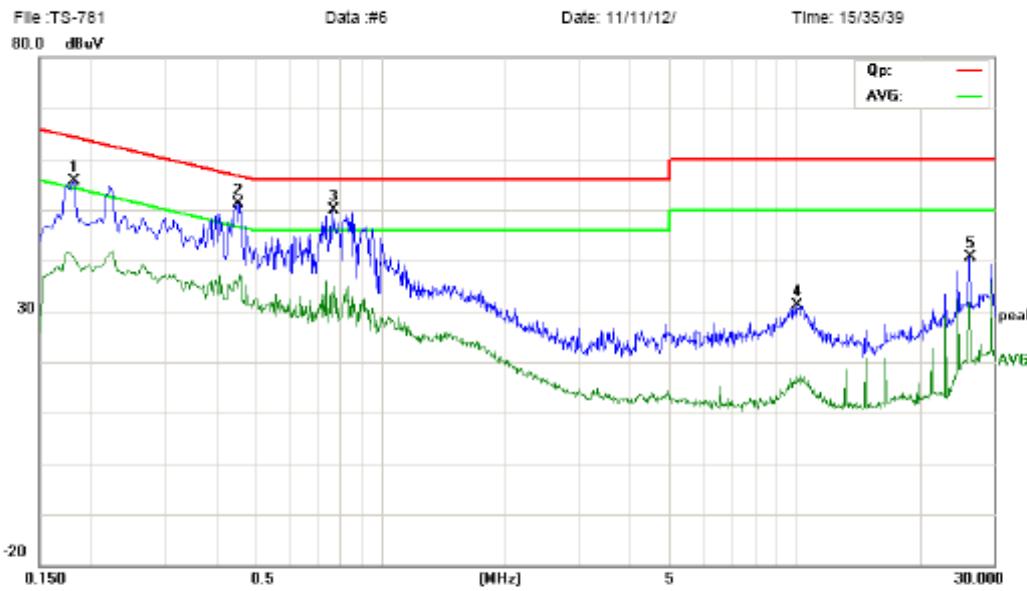
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		0.1820	44.40	10.92	55.32	64.39	-9.07	peak	
2		0.3020	37.46	11.32	48.78	60.19	-11.41	peak	
3	*	0.7740	40.88	10.00	50.88	56.00	-5.12	peak	
4		10.2540	22.89	9.00	31.89	60.00	-28.11	peak	
5		29.5460	30.38	9.00	39.38	60.00	-20.62	peak	

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



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 Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement



Site: site #1

Phase: **N**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: 7"Touchsquid tablet

M/N: TS-781

Mode: full load

Note:

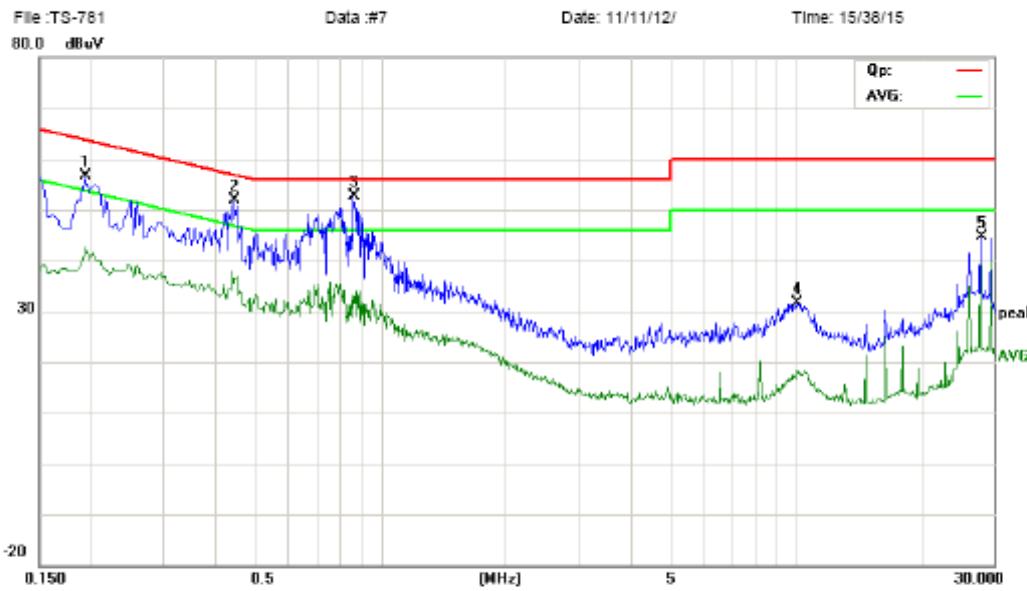
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		0.1820	44.63	10.92	55.55	64.39	-8.84	peak	
2	*	0.4500	40.76	10.33	51.09	56.88	-5.79	peak	
3		0.7660	39.96	10.00	49.96	56.00	-6.04	peak	
4		10.0620	22.25	9.00	31.25	60.00	-28.75	peak	
5		26.2660	31.58	9.00	40.58	60.00	-19.42	peak	

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



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Conducted Emission Measurement



Site: site #1

Limit: FCC Part15 B Class B QP

EUT: 7"Touchsquid tablet

M/N: TS-781

Mode: camera

Note:

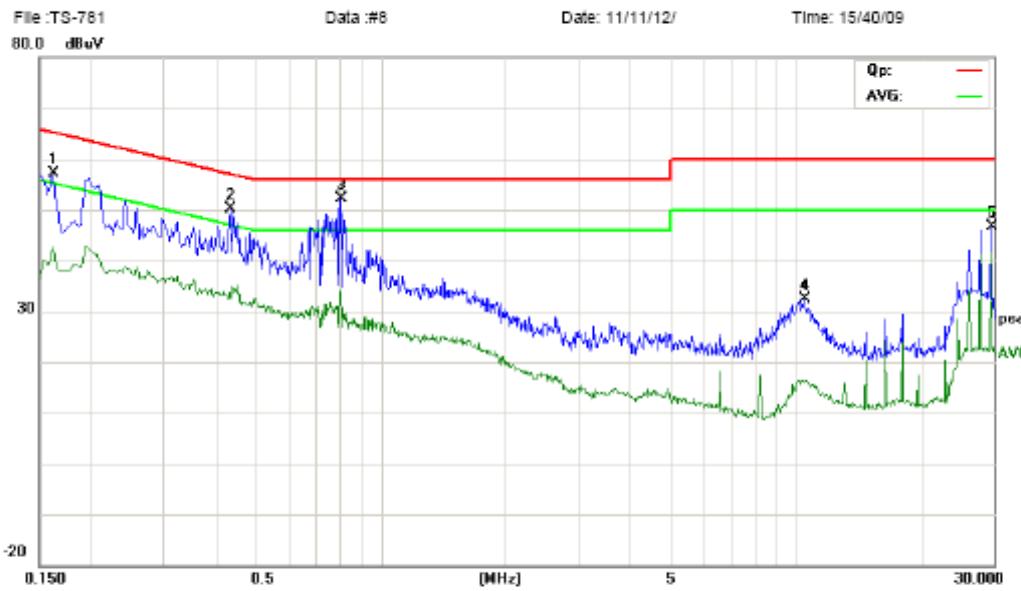
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1		0.1940	45.00	11.64	56.64	63.86	-7.22	peak	
2		0.4420	41.49	10.39	51.88	57.02	-5.14	peak	
3	*	0.8580	42.55	10.00	52.55	56.00	-3.45	peak	
4		10.0380	22.75	9.00	31.75	60.00	-28.25	peak	
5		27.8900	35.73	9.00	44.73	60.00	-15.27	peak	

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



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Conducted Emission Measurement



Site: site #1

Phase: *L1*

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: 7"Touchsquid tablet

M/N: TS-781

Mode: camera

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		0.1620	47.49	9.72	57.21	65.36	-8.15	peak	
2		0.4340	39.67	10.44	50.11	57.18	-7.07	peak	
3	*	0.7980	42.17	10.00	52.17	56.00	-3.83	peak	
4		10.4620	23.26	9.00	32.26	60.00	-27.74	peak	
5		29.5300	37.51	9.00	46.51	60.00	-13.49	peak	

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



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Tel: 0755-86170306 Fax: 0755-86170310

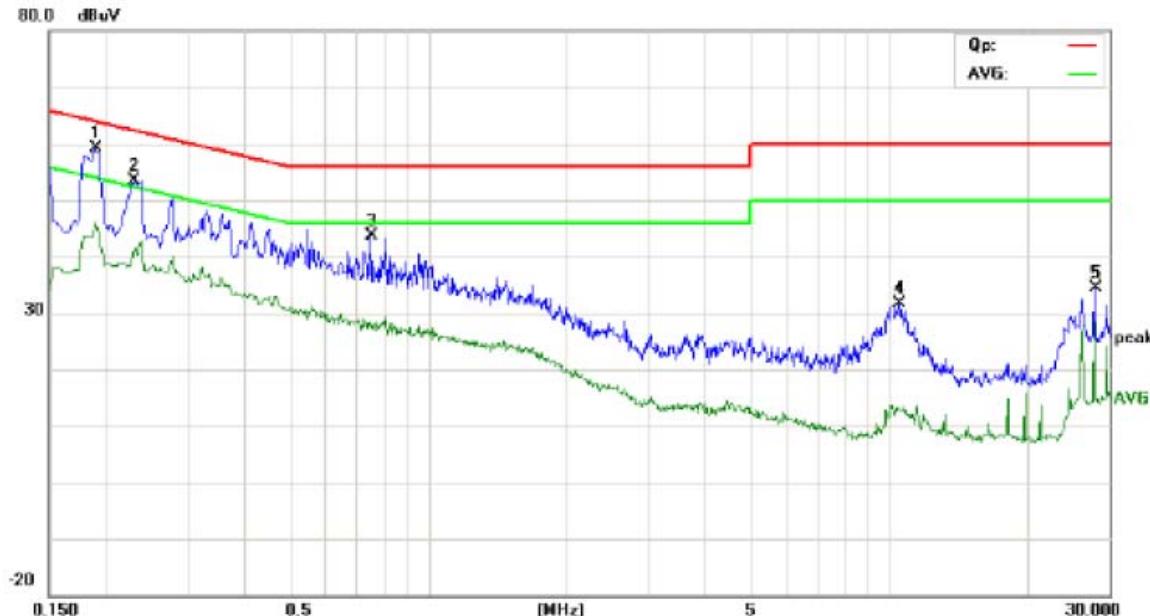
Conducted Emission Measurement

File: TS-781

Data #: 1

Date: 11/11/12

Time: 15:21:42



Site: site #1

Phase: L1

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: 7"Touchsquid tablet

MN: TS-781

Mode: WIFI

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1	*	0.1900	47.67	11.40	59.07	64.04	-4.97	peak	
2		0.2300	41.54	11.80	53.34	62.45	-9.11	peak	
3		0.7500	33.60	10.00	43.60	56.00	-12.40	peak	
4		10.4820	22.56	9.00	31.56	60.00	-28.44	peak	
5		27.9180	25.34	9.00	34.34	60.00	-25.66	peak	

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



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Conducted Emission Measurement

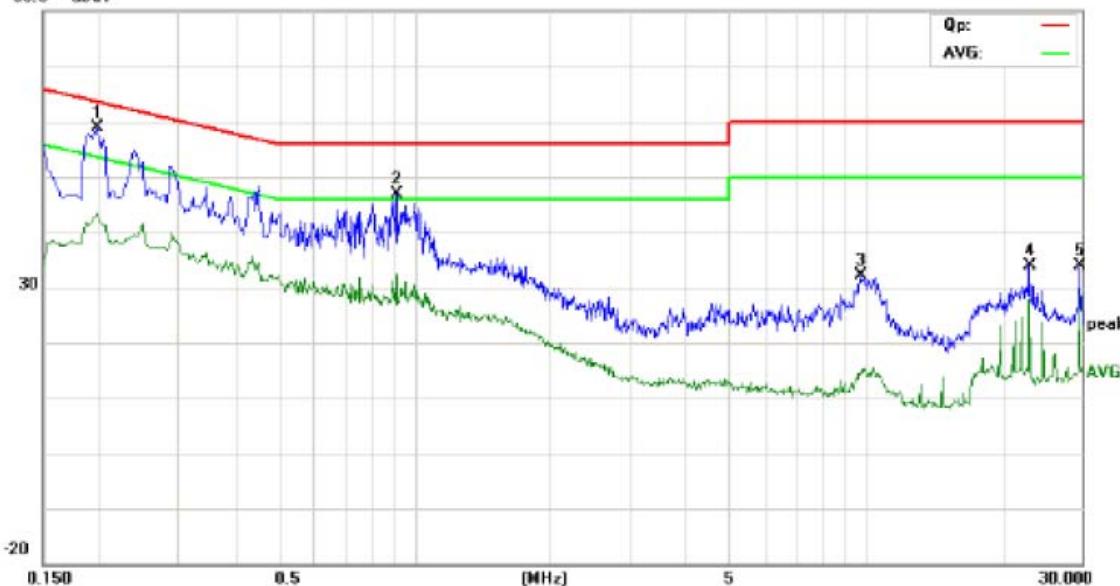
File: TS-781

Data #: 2

Date: 11/11/12/

Time: 15:24:22

80.0 dBuV



Site site #1

Phase: **N**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: 7"Touchsquid tablet

M/N: TS-781

Mode: WIFI

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Over	
								Detector	Comment
1	*	0.1980	46.90	11.88	58.78	63.69	-4.91	peak	
2		0.9100	36.87	10.00	46.87	56.00	-9.13	peak	
3		9.6860	22.91	9.19	32.10	60.00	-27.90	peak	
4		22.9780	24.80	9.00	33.80	60.00	-26.20	peak	
5		29.5460	24.88	9.00	33.88	60.00	-26.12	peak	

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



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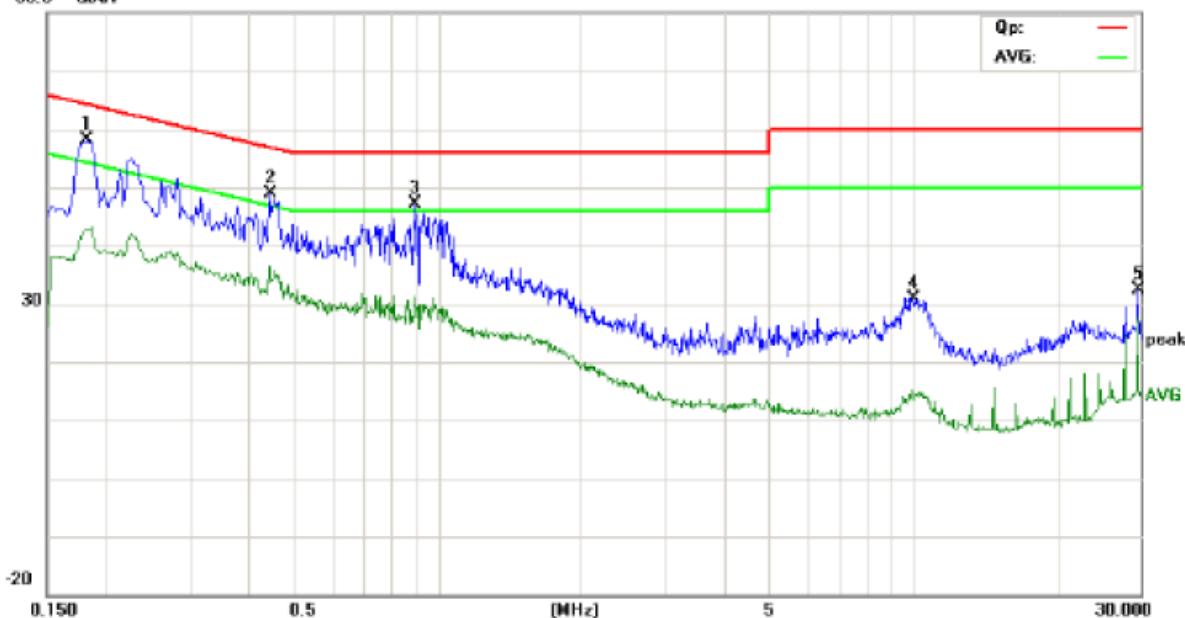
Conducted Emission Measurement

File : TS-781
80.0 dBuV

Data : #3

Date: 11/11/12/

Time: 15:26:25



Site site #1

Phase: *N*

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: 7"Touchsquid tablet

M/N: TS-781

Mode: bluetooth

Note:

No.	Mk.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
		Freq.	Level	Factor				
		MHz	dBuV	dB	dBuV	dB		
1	*	0.1820	47.13	10.92	58.05	64.39	-6.34	peak
2		0.4420	38.46	10.39	48.85	57.02	-8.17	peak
3		0.8940	37.15	10.00	47.15	56.00	-8.85	peak
4		9.9380	21.95	9.04	30.99	60.00	-29.01	peak
5		29.5540	23.40	9.00	32.40	60.00	-27.60	peak

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



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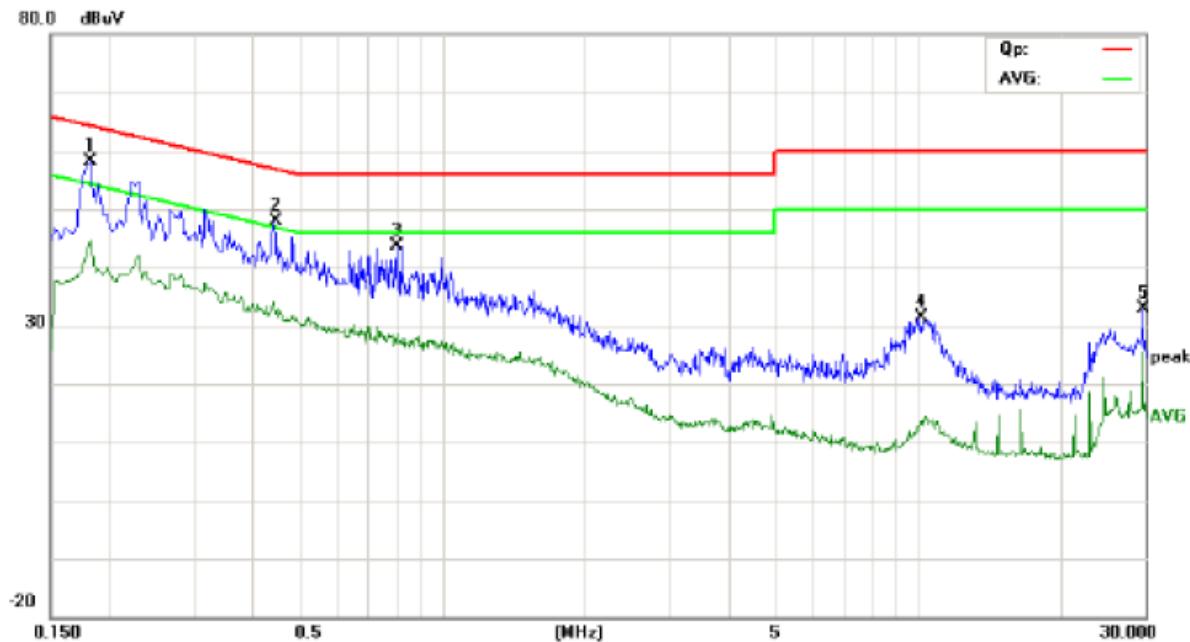
Conducted Emission Measurement

File : TS-781

Data #: 4

Date: 11/11/12/

Time: 15:28:20



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1820	47.13	10.92	58.05	64.39	-6.34	peak	
2		0.4460	37.45	10.36	47.81	56.95	-9.14	peak	
3		0.8020	33.74	10.00	43.74	56.00	-12.26	peak	
4		10.1060	22.42	9.00	31.42	60.00	-28.58	peak	
5		29.5500	23.94	9.00	32.94	60.00	-27.06	peak	

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

7. RADIATED EMISSION TEST

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

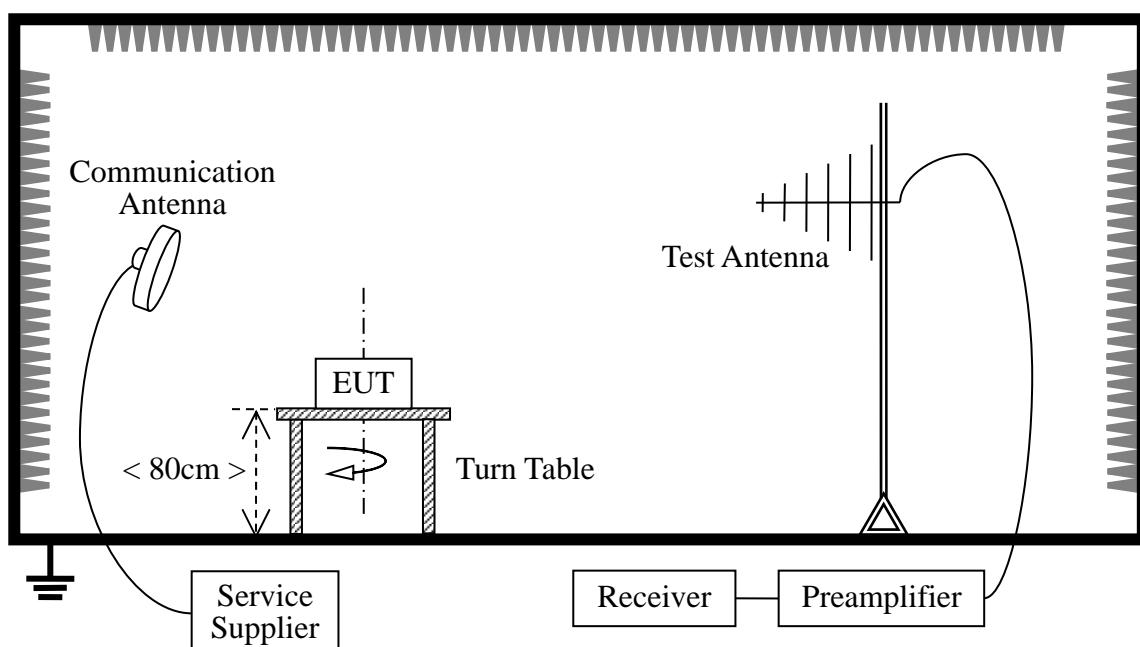
According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μ V/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(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 received AC 120V/60Hz. 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 WIFI device (Supply by the Applicant) during the test.

For the Test Antenna:

1. 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.
2. 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
Standby Mode	2011-11-12	MOST111102F1	TS-781_0_(H, V)	<input type="checkbox"/>
Full Load Mode	2011-11-12	MOST111102F1	TS-781_1_(H, V)	<input type="checkbox"/>
USB Mode	2011-11-12	MOST111102F1	TS-781_2_(H, V)	<input type="checkbox"/>
Camera Mode	2011-11-12	MOST111102F1	TS-781_3_(H, V)	<input checked="" type="checkbox"/>
Bluetooth Mode	2011-11-12	MOST111102F1	TS-781_4_(H, V)	<input type="checkbox"/>
WIFI Mode	2011-11-12	MOST111102F1	TS-781_5_(H, V)	<input type="checkbox"/>

7.3 TEST RESULT

Form 9 KHz to 30MHz:

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	AV Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
N/A	H								>20
N/A	V								>20

-Note: No test data was detected in below 30MHz.



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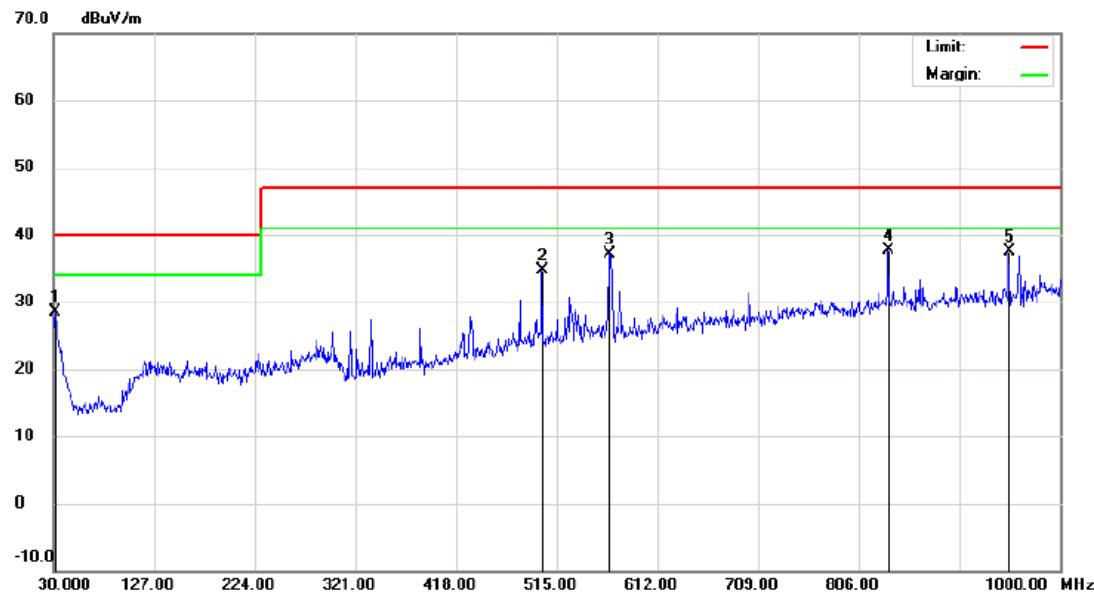
Radiated Emission Measurement

File : TS-781

Data : #25

Date: 2011-12-12

Time: 19:04:24



Site: site #1

Polarization: **Horizontal**

Temperature: 26

Limit: EN 55022 Class B 3M Radiation

Power: DC 5V From PC

Humidity: 61 %

EUT: 7"Touchscreen tablet

Distance:

M/N: TS-781

Mode: USB

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree degree	Comment
1		31.9400	5.16	23.31	28.47	40.00	-11.53	peak		
2		500.4500	13.38	21.40	34.78	47.00	-12.22	peak		
3		566.4099	14.38	22.79	37.17	47.00	-9.83	peak		
4	*	834.1300	10.65	27.08	37.73	47.00	-9.27	peak		
5		950.5300	9.52	27.92	37.44	47.00	-9.56	peak		

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



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Radiated Emission Measurement

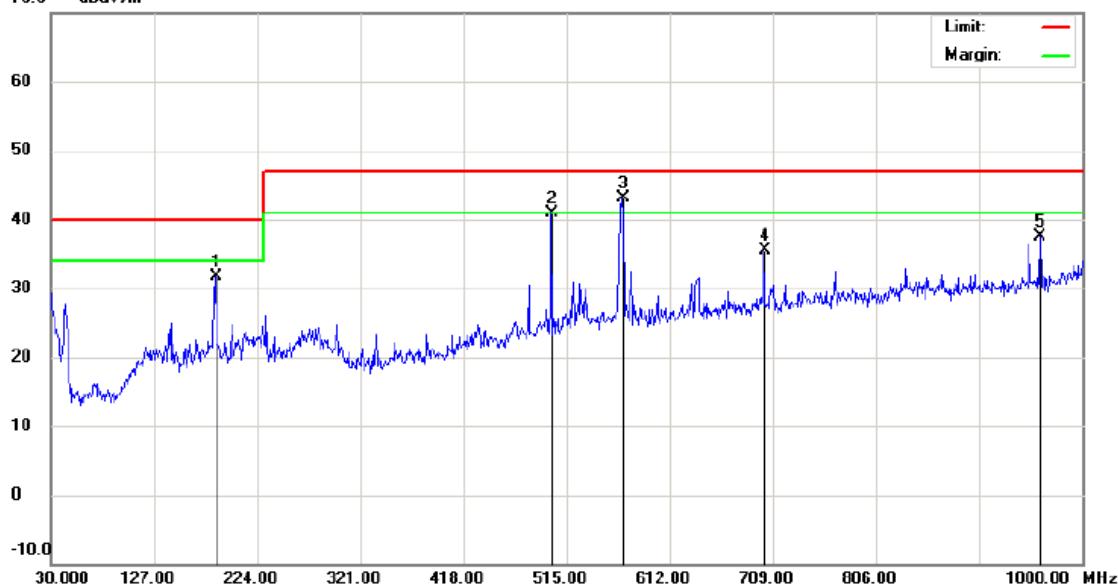
File : TS-781

Data #: 26

Date: 2011-12-12

Time: 19:04:53

70.0 dBuV/m



Site site #1

Polarization: **Vertical**

Temperature: 26

Limit: EN 55022 Class B 3M Radiation

Power: DC 5V From PC

Humidity: 61 %

EUT: 7"Touchscreen tablet

Distance:

M/N: TS-781

Mode: USB

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		184.2300	15.02	16.62	31.64	40.00	-8.36	peak		
2		500.4500	19.51	21.40	40.91	47.00	-6.09	peak		
3	*	567.3800	20.30	22.82	43.12	47.00	-3.88	peak		
4		700.2700	10.74	24.70	35.44	47.00	-11.56	peak		
5		960.2300	9.53	28.00	37.53	47.00	-9.47	peak		

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



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Radiated Emission Measurement

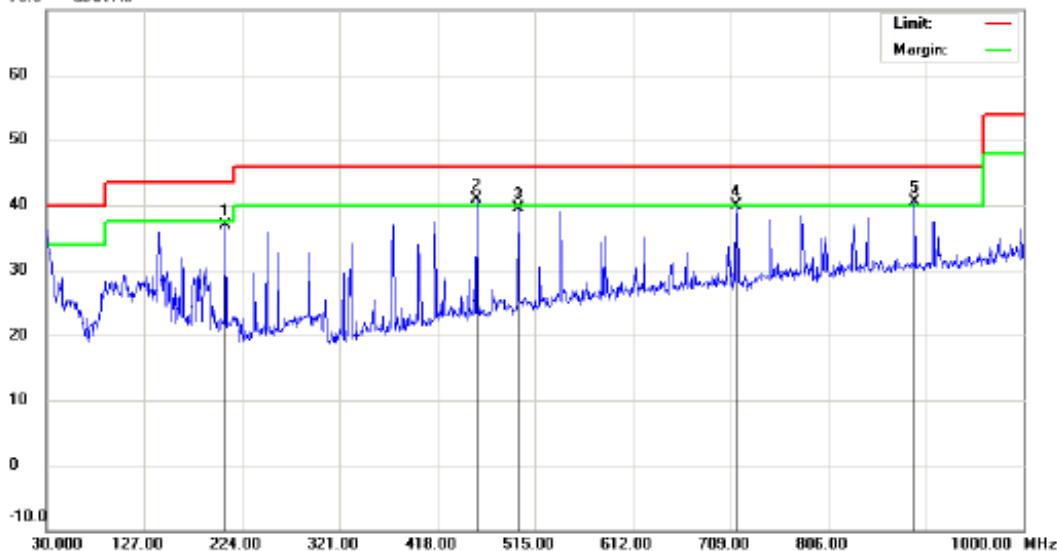
File: TS-781

Data: #9

Date: 2011-11-12

Time: 17:02:32

70.0 dBuV/m



Site: site #1

Polarization: *Vertical*

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: 7"Touchsquid tablet

Distance:

MN: TS-781

Mode: CAMERA

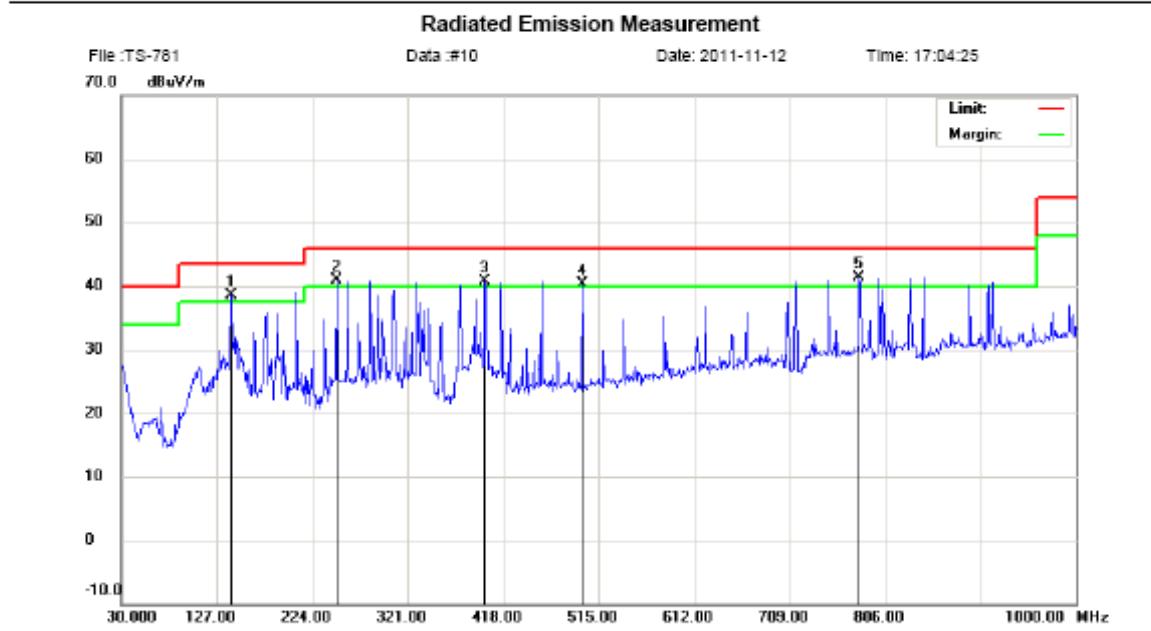
Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment			Height	Degree		
			MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1		207.5099	20.39	16.53	36.92	43.50	-6.58	peak			
2	*	456.8000	20.64	20.24	40.88	46.00	-5.12	peak			
3		498.5099	17.98	21.43	39.41	46.00	-6.59	peak			
4		714.8200	15.29	24.65	39.94	46.00	-6.06	peak			
5	!	892.3300	13.26	27.32	40.58	46.00	-5.42	peak			

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



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Site: site #1 Polarization: Horizontal Temperature: 26
 Limit: FCC Part15 B 3M Radiation Power: AC 120V/60Hz Humidity: 61 %
 EUT: 7"Touchsquid tablet Distance:
 M/N: TS-781
 Mode: CAMERA
 Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment					
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1	!	141.5500	21.46	17.11	38.57	43.50	-4.93	peak		
2	!	249.2199	23.46	17.40	40.86	46.00	-5.14	peak		
3	!	399.5699	21.97	18.69	40.66	46.00	-5.34	peak		
4	!	498.5099	18.79	21.43	40.22	46.00	-5.78	peak		
5	*	779.8099	15.14	26.20	41.34	46.00	-4.66	peak		

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



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
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Radiated Emission Measurement

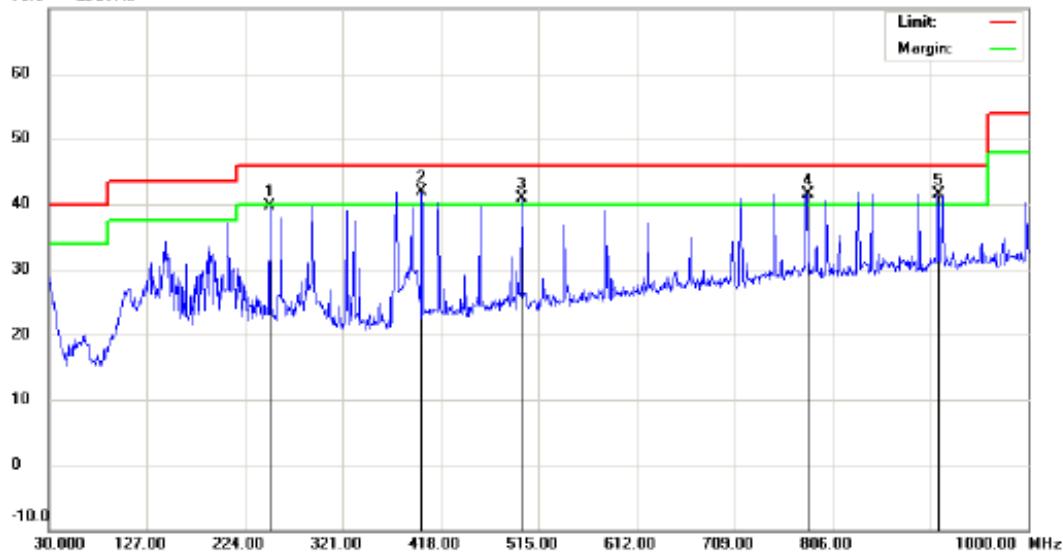
File: TS-781

Data: #11

Date: 2011-11-12

Time: 17:06:48

70.0 dBuV/m



Site: site #1

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: 7"Touchsquid tablet

Distance:

M/N: TS-781

Mode: FULL LOAD

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment					
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1		249.2199	22.35	17.40	39.75	46.00	-6.25	peak		
2	*	399.5699	23.20	18.69	41.89	46.00	-4.11	peak		
3	!	498.5099	19.40	21.43	40.83	46.00	-5.17	peak		
4	!	780.7799	15.28	26.18	41.46	46.00	-4.54	peak		
5	!	909.7899	13.96	27.60	41.56	46.00	-4.44	peak		

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



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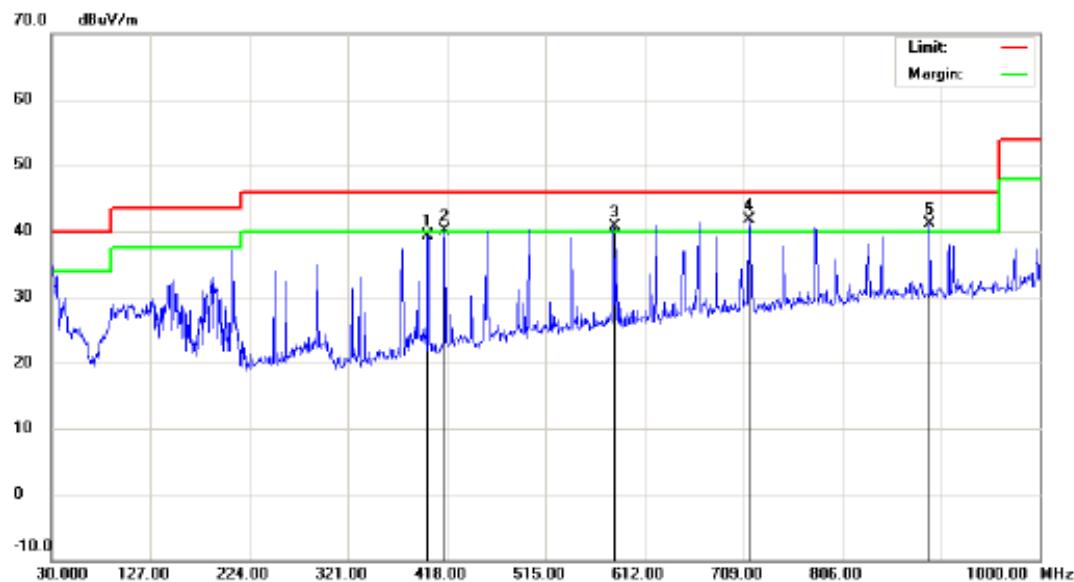
Radiated Emission Measurement

File: TS-781

Data #: 12

Date: 2011-11-12

Time: 17:08:48



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: 7"Touchsquid tablet

Distance:

MN: TS-781

Mode: FULL LOAD

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment					
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1		399.5699	20.69	18.69	39.38	46.00	-6.62	peak		
2	!	416.0600	20.57	19.57	40.14	46.00	-5.86	peak		
3	!	581.9299	17.80	22.92	40.72	46.00	-5.28	peak		
4	*	714.8200	16.97	24.65	41.62	46.00	-4.38	peak		
5	!	892.3300	13.73	27.32	41.05	46.00	-4.95	peak		

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



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Radiated Emission Measurement

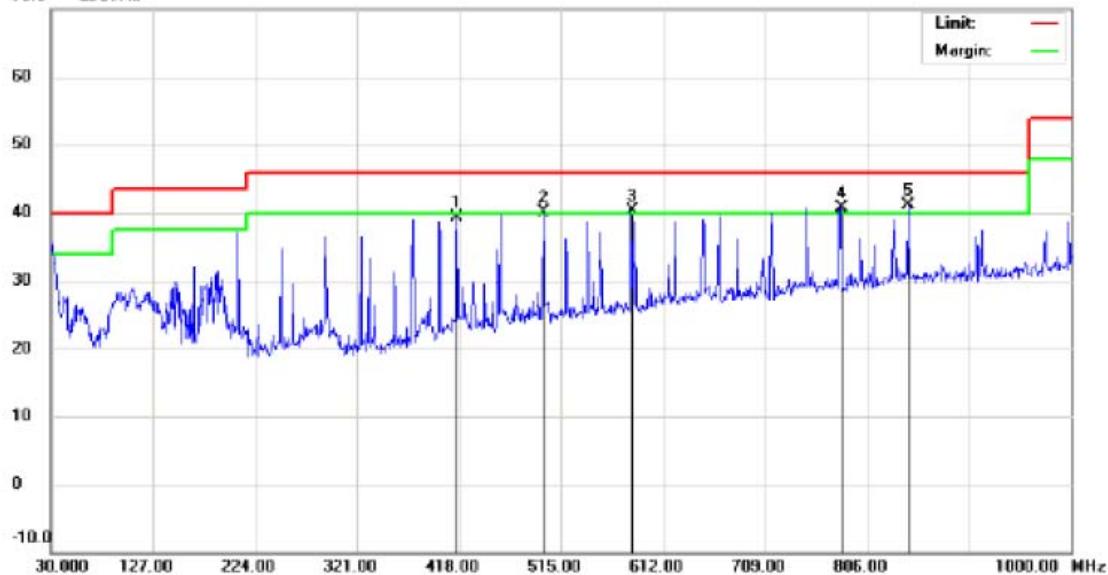
File : TS-781

Data .#5

Date: 2011-11-12

Time: 16:50:59

70.0 dBuV/m



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: 7"Touchsquid tablet

Distance:

MN: TS-781

Mode: BLUETOOTH

Note:

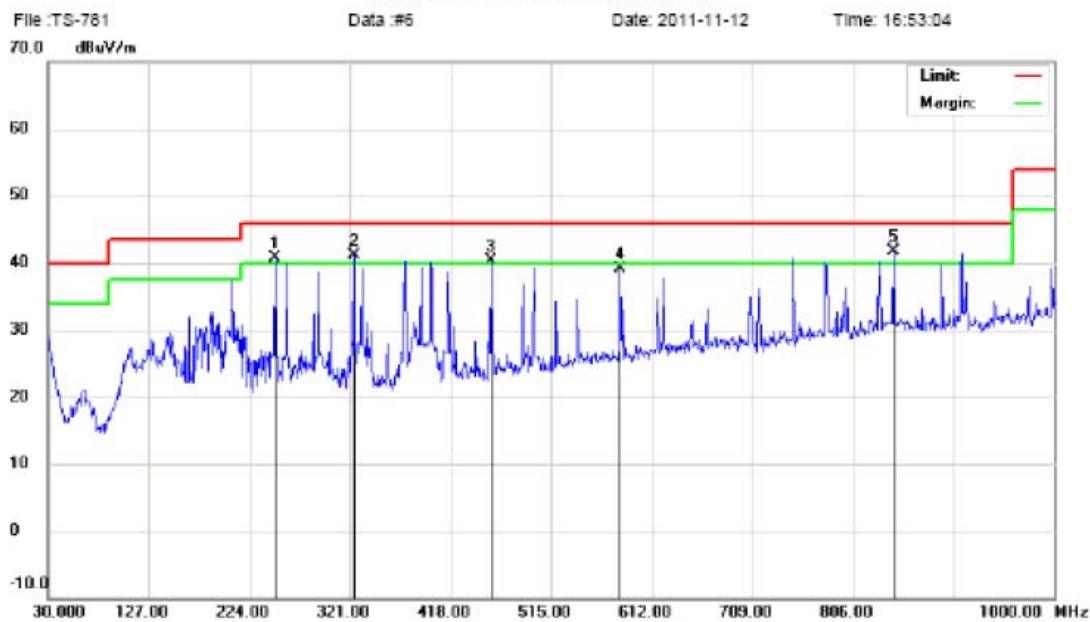
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Detector	Table Height cm	Table Degree degree	Comment
1		416.0600	19.82	19.57	39.39	46.00	-6.61	peak			
2	!	498.5099	18.66	21.43	40.09	46.00	-5.91	peak			
3	!	581.9299	17.47	22.92	40.39	46.00	-5.61	peak			
4	!	780.7799	14.59	26.18	40.77	46.00	-5.23	peak			
5	*	844.8000	13.87	27.15	41.02	46.00	-4.98	peak			

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



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Radiated Emission Measurement



Site: site #1

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: 7"Touchsquid tablet

Distance:

MN: TS-781

Mode: BLUETOOTH

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	
			Level	Factor	ment					
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1	!	249.2199	23.25	17.40	40.65	46.00	-5.35	peak		
2	!	324.8798	24.08	17.00	41.08	46.00	-4.92	peak		
3	!	456.8000	20.08	20.24	40.32	46.00	-5.68	peak		
4		581.9298	16.14	22.92	39.06	46.00	-6.94	peak		
5	*	844.7999	14.49	27.15	41.64	46.00	-4.36	peak		

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



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Radiated Emission Measurement

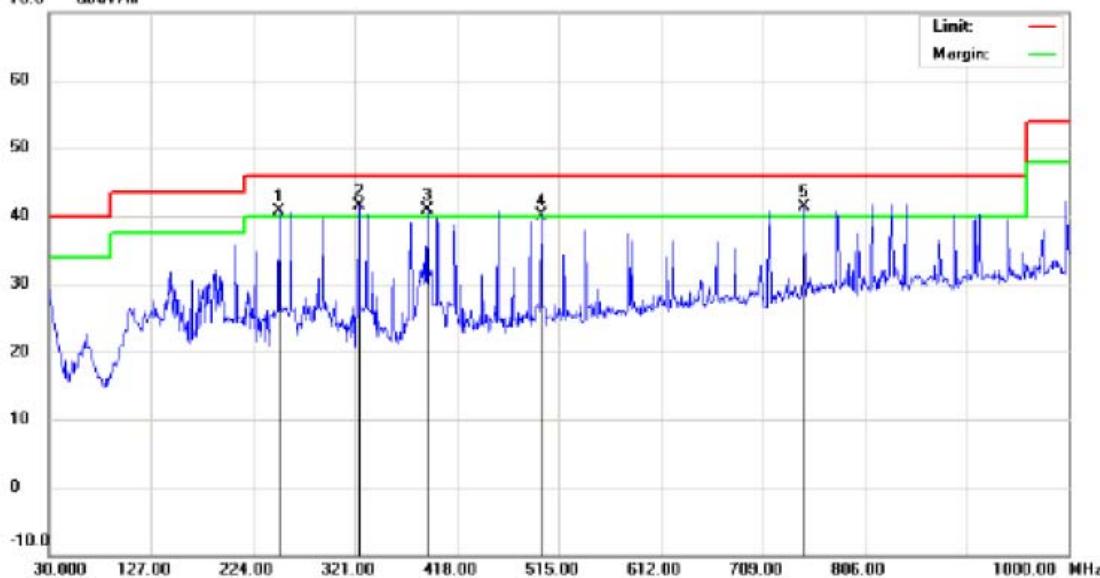
File: TS-781

Data #7

Date: 2011-11-12

Time: 16:55:31

70.0 dBuV/m



Site: site #1

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: 7"Touchsquid tablet

Distance:

M/N: TS-781

Mode: WIFI

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	Comment
			Level	Factor	ment			Height	Degree	
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	
1	!	249.2199	23.27	17.40	40.67	46.00	-5.33	peak		
2	*	324.8798	24.53	17.00	41.53	46.00	-4.47	peak		
3	!	389.8700	22.65	18.30	40.95	46.00	-5.05	peak		
4	!	498.5099	18.70	21.43	40.13	46.00	-5.87	peak		
5	!	748.7698	15.52	25.80	41.32	46.00	-4.68	peak		

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



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Radiated Emission Measurement

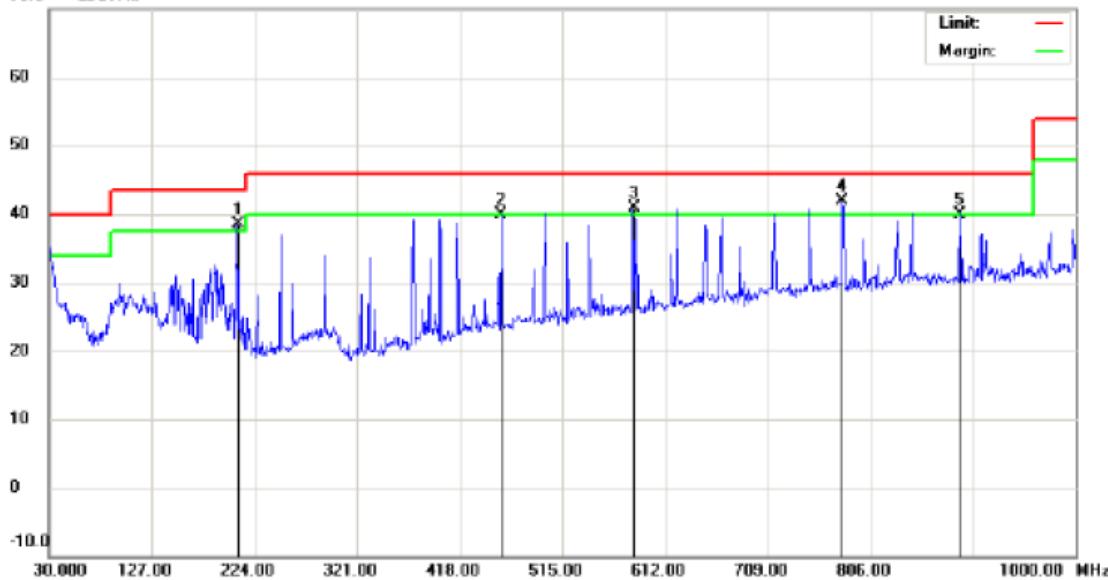
File: TS-781

Data #: 8

Date: 2011-11-12

Time: 16:57:32

70.0 dBuV/m



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: 7"Touchsquid tablet

Distance:

MN: TS-781

Mode: WIFI

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	!	207.5100	21.98	16.53	38.51	43.50	-4.99	peak		
2		457.7699	19.67	20.29	39.96	46.00	-6.04	peak		
3	!	581.9299	18.01	22.92	40.93	46.00	-5.07	peak		
4	*	779.8099	15.72	26.20	41.92	46.00	-4.08	peak		
5		890.3899	12.70	27.30	40.00	46.00	-6.00	peak		

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

Above 1 GHz

Operation Mode: USB Mode **Test Date:** November. 12, 2011
Temperature: 24°C **Tested by:** Habby Guo
Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	AV Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
1248.38	H	47.89	31.34	13.45	61.34	44.79	74.00	54.00	-9.21
N/A									>20
1248.38	V	49.11	29.73	13.45	62.56	43.18	74.00	54.00	-10.82
N/A									>20

Notes:

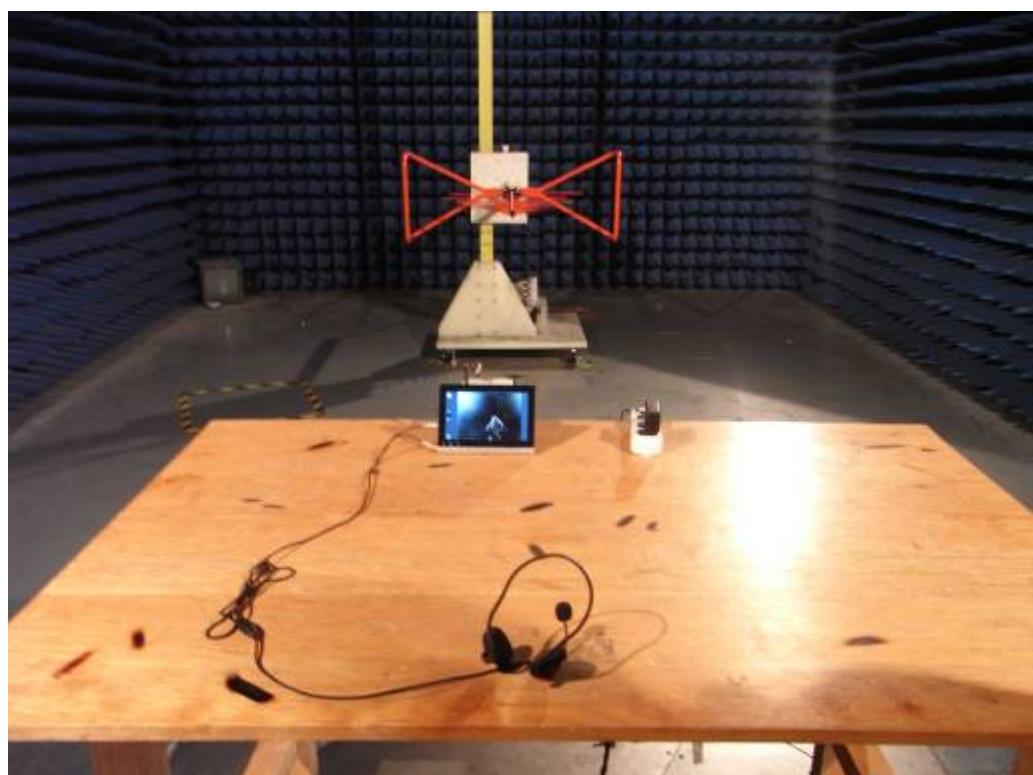
1. Measuring frequencies from 1 GHz to 6GHz.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
3. The frequency that above 3GHz is mainly from the environment noise.

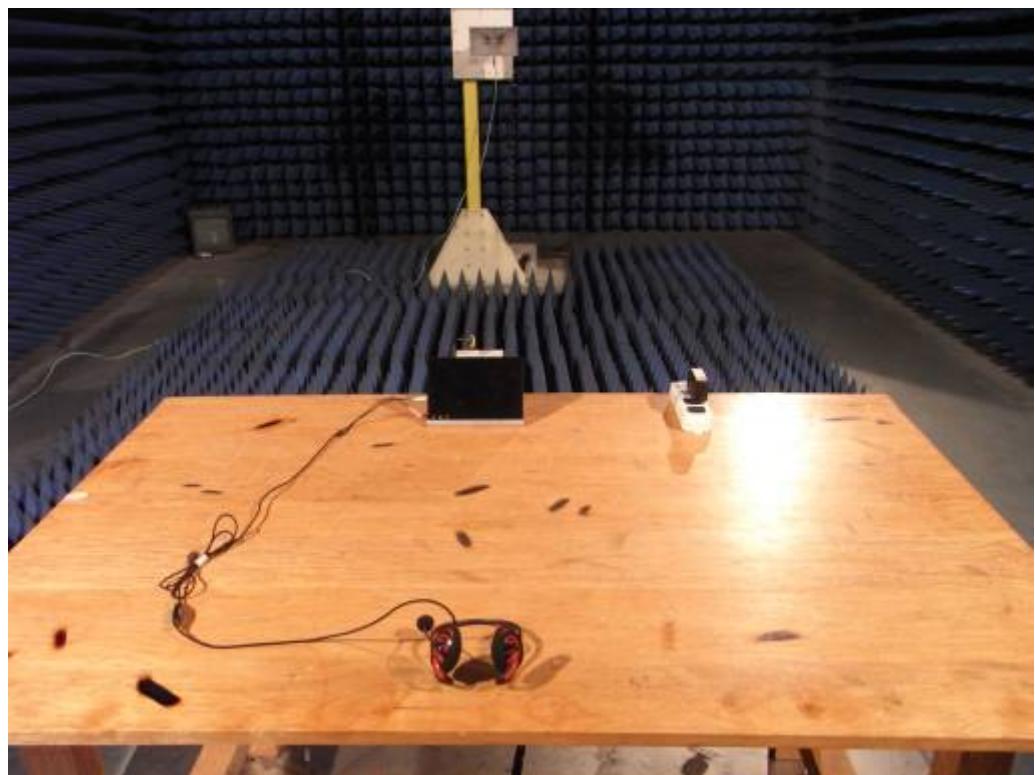
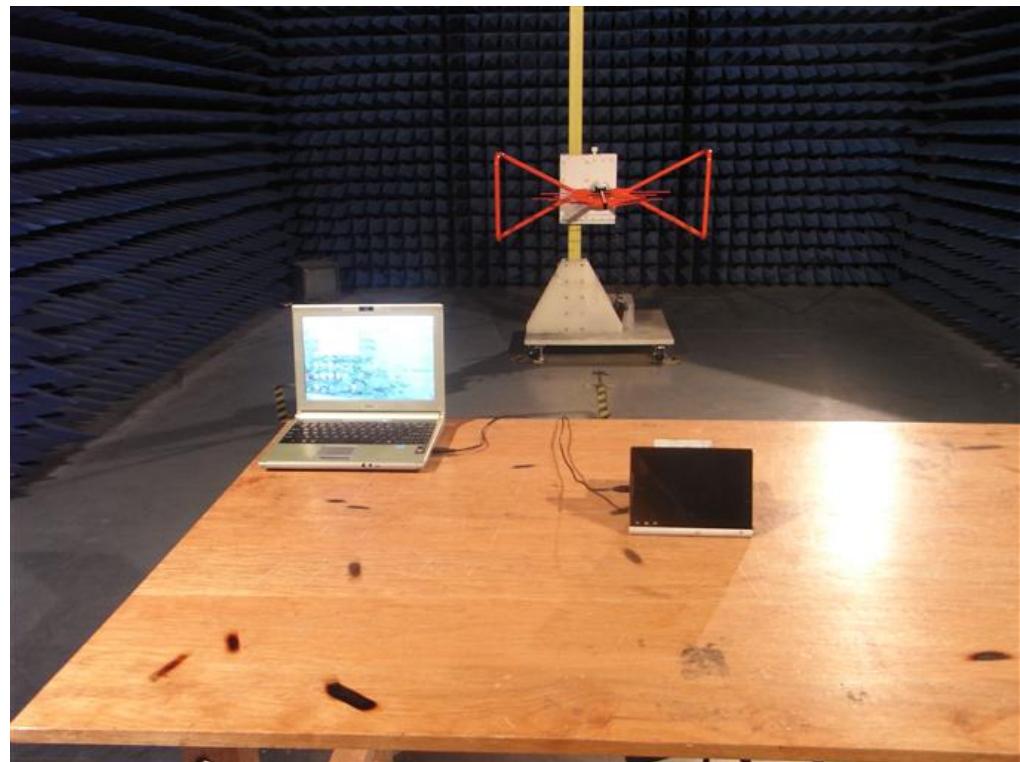
APPENDIX 1
PHOTOGRAPHS OF TEST SETUP

CE TEST SETUP



RE TEST SETUP





APPENDIX 2
PHOTOGRAPHS OF EUT

FRONT VIEW OF SAMPLE



BACK VIEW OF SAMPLE



LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



TOP VIEW OF SAMPLE



BOTTOM VIEW OF SAMPLE



PHOTO OF POWER SUPPLY



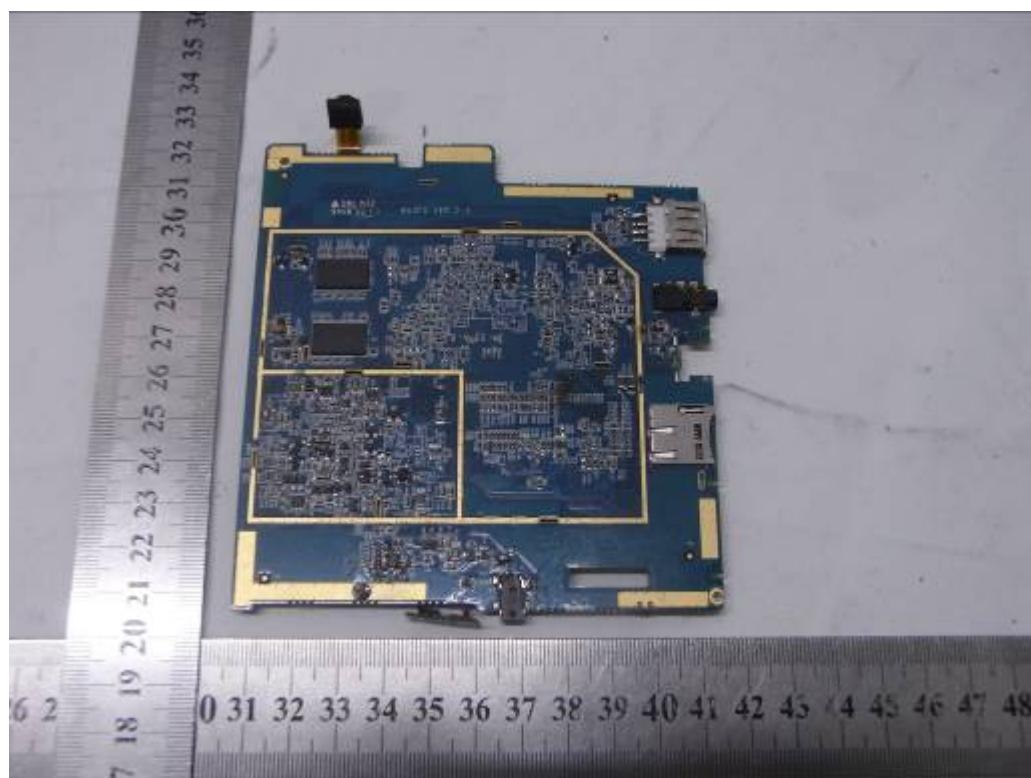
PHOTO OF THE ENTIRE SAMPLE



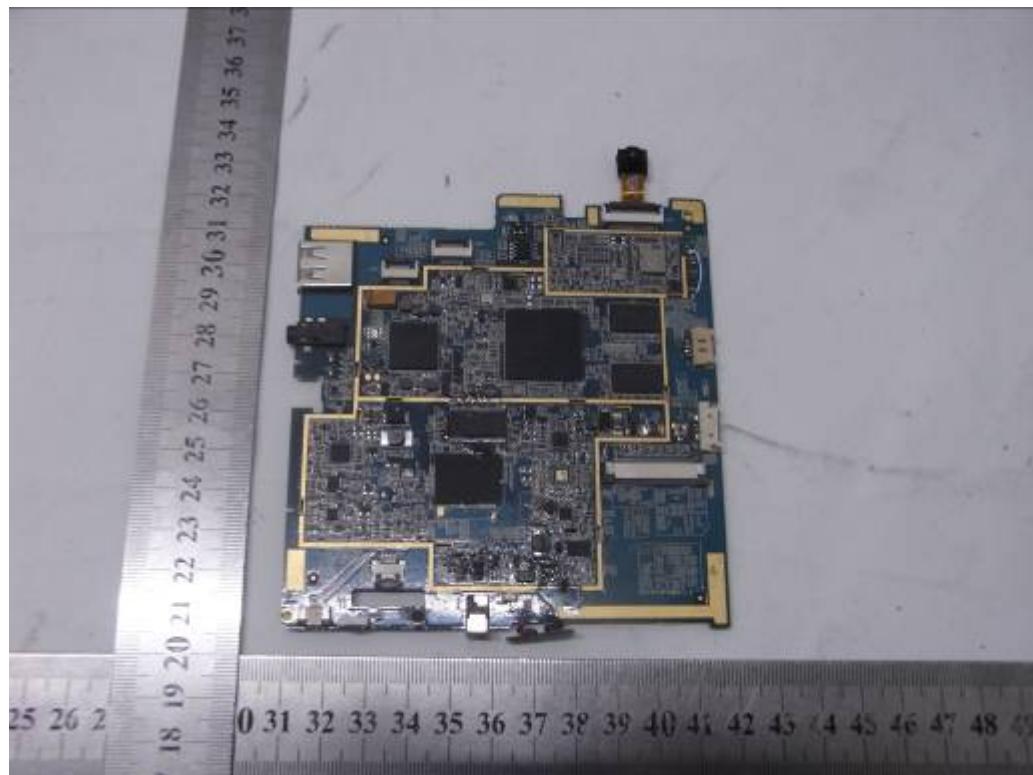
INTERNAL PHOTO OF SAMPLE – 1



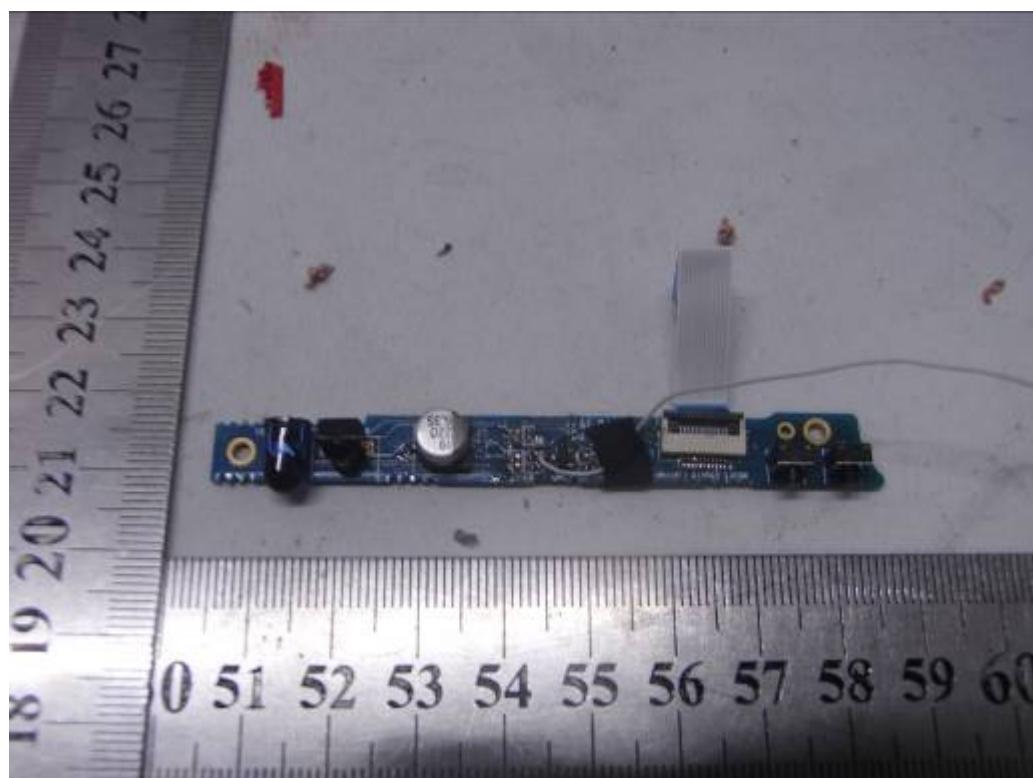
INTERNAL PHOTO OF SAMPLE -2



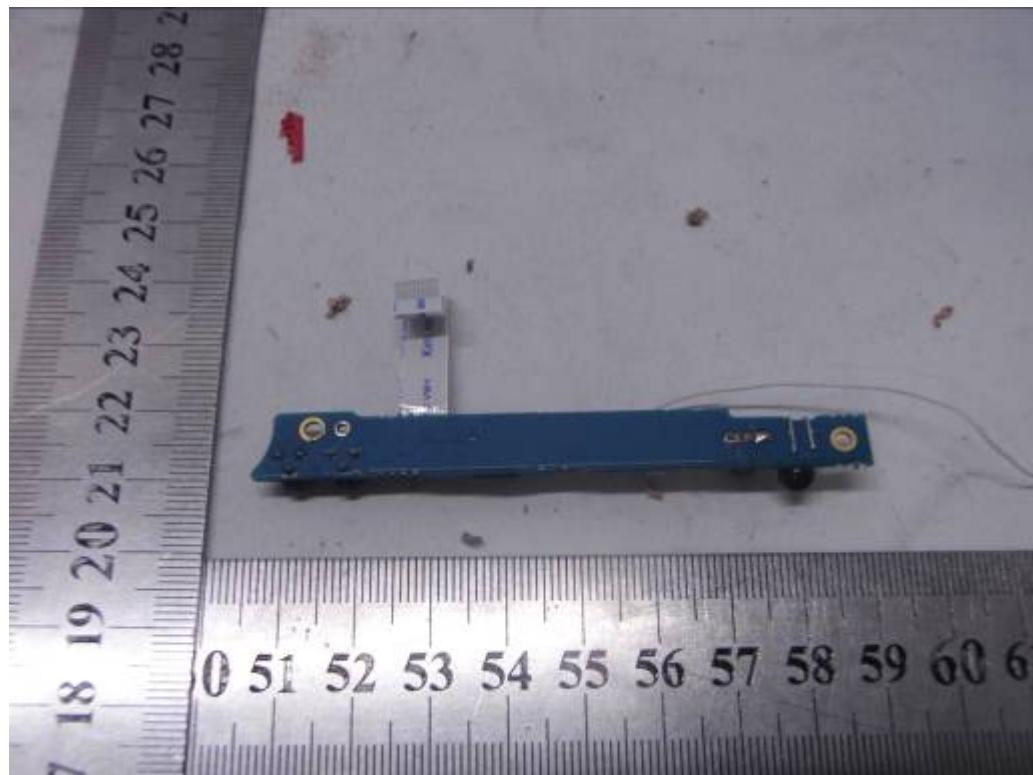
INTERNAL PHOTO OF SAMPLE -3



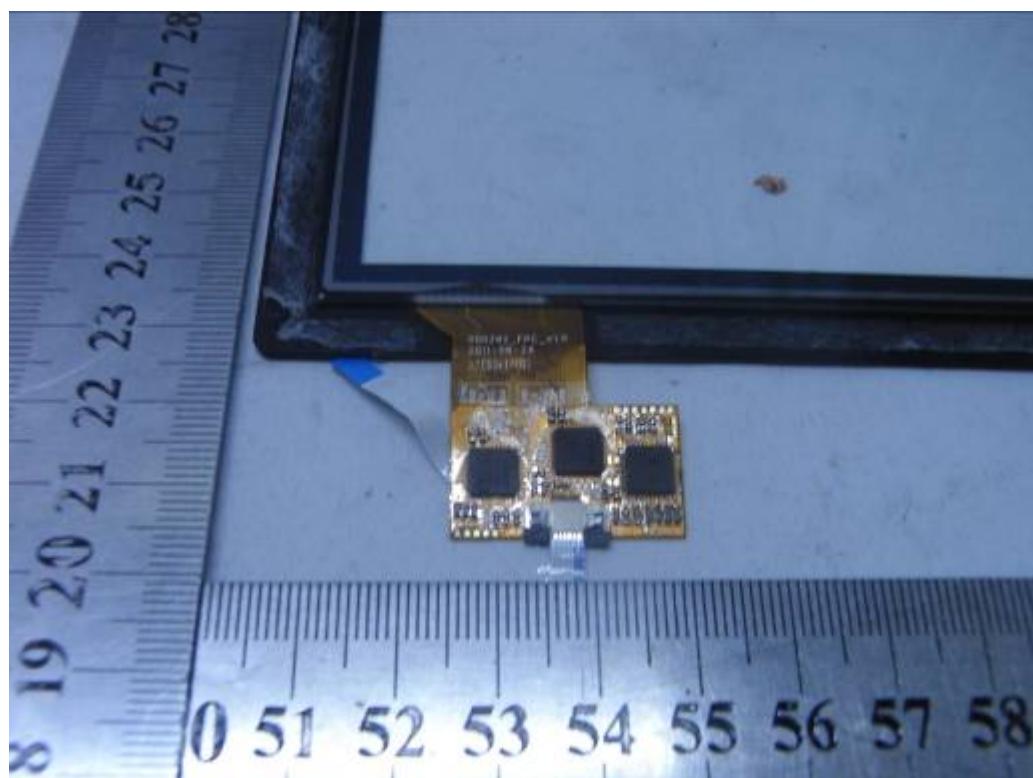
INTERNAL PHOTO OF SAMPLE -4



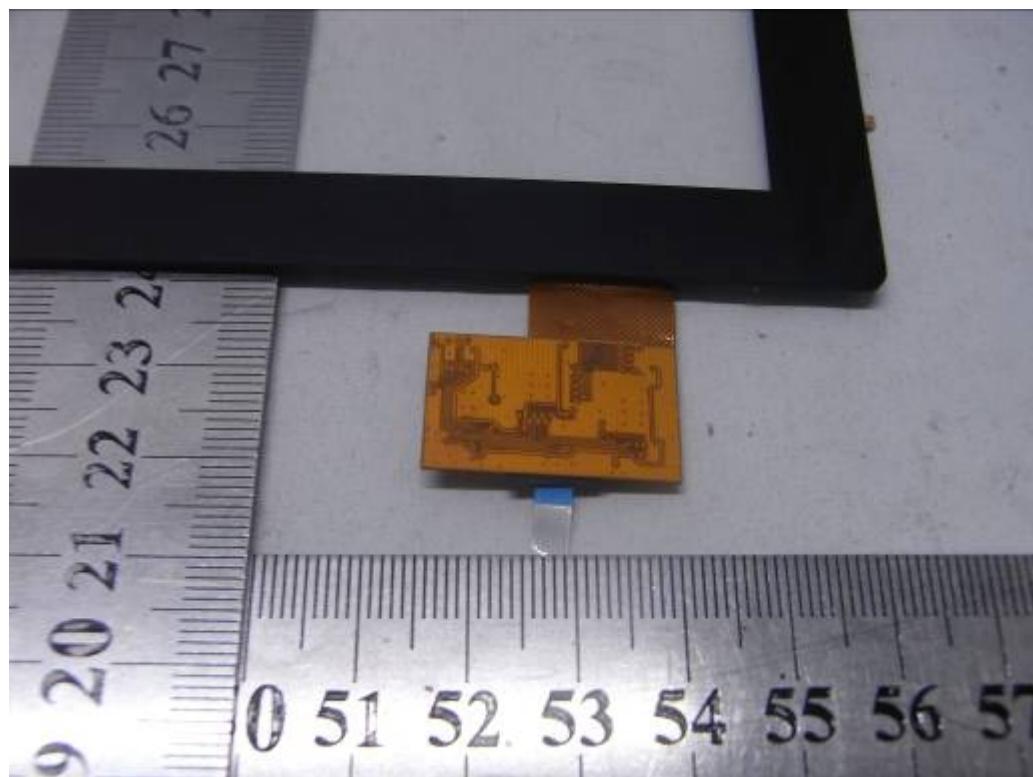
INTERNAL PHOTO OF SAMPLE -5



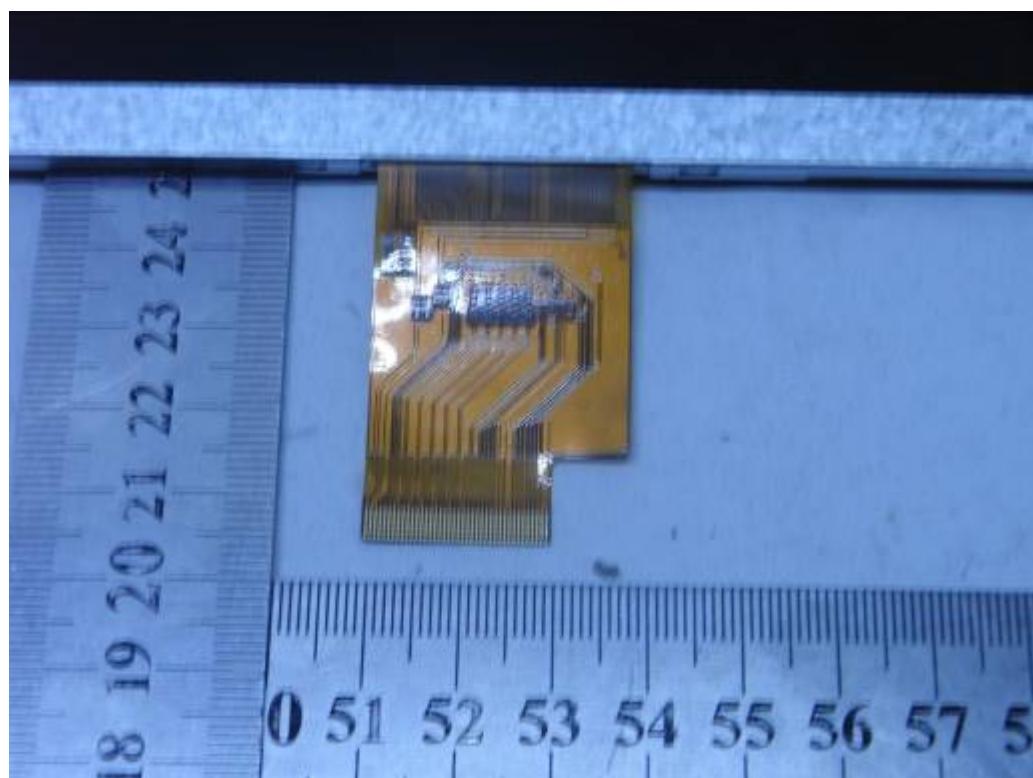
INTERNAL PHOTO OF SAMPLE -6



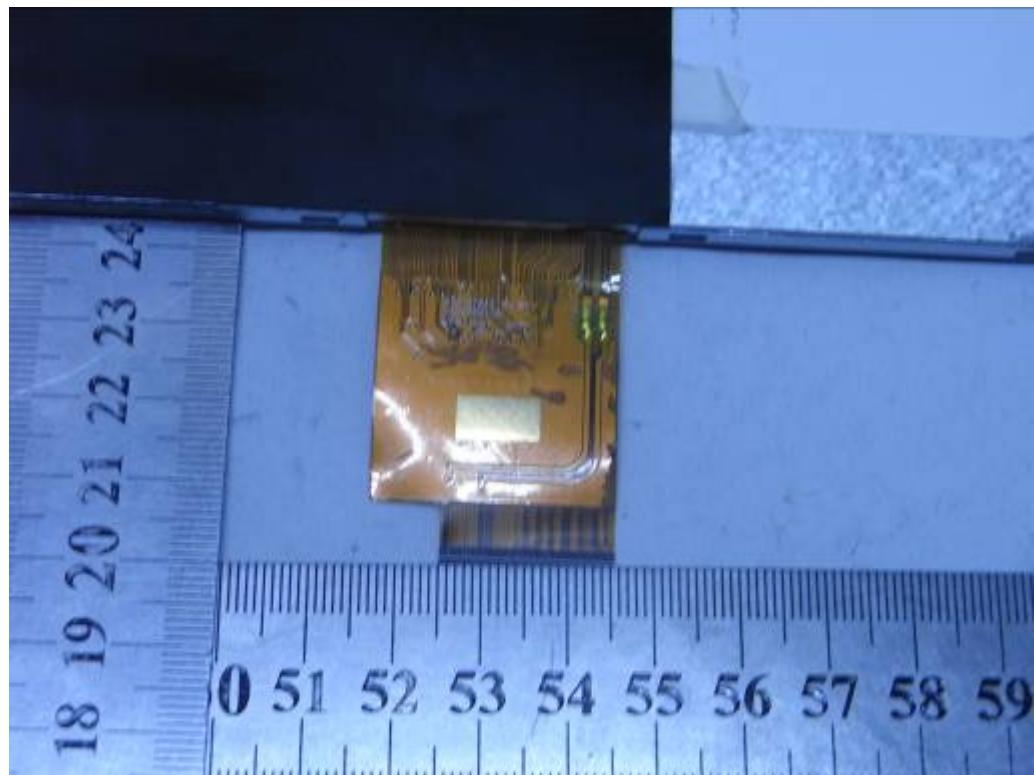
INTERNAL PHOTO OF SAMPLE -7



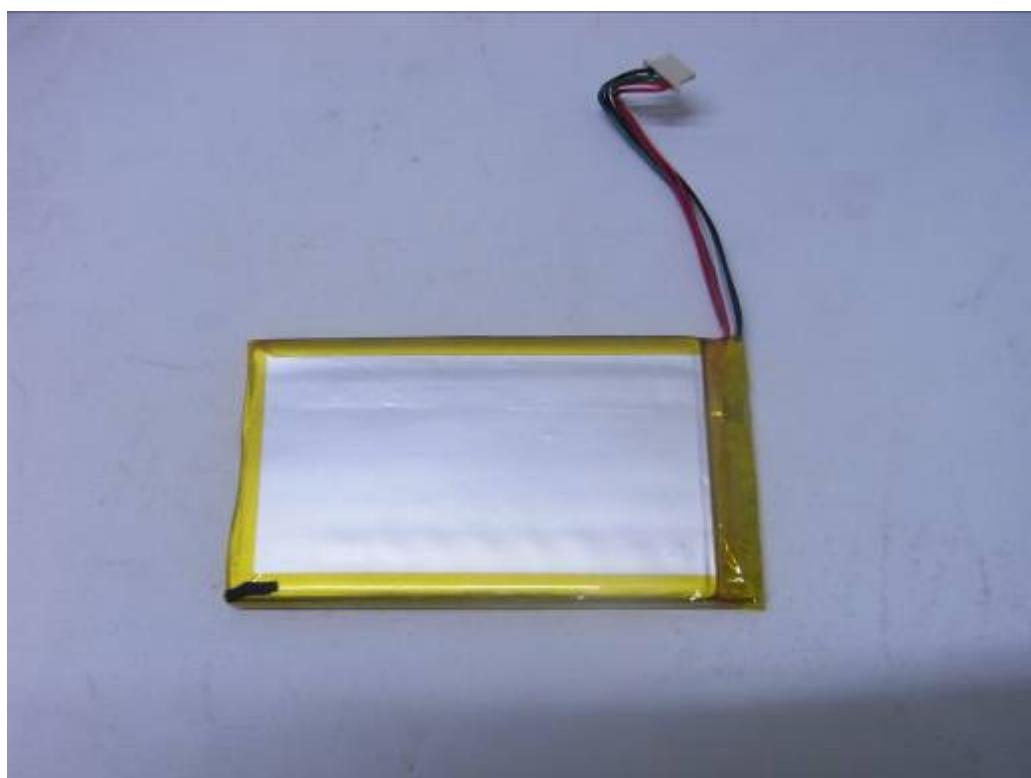
INTERNAL PHOTO OF SAMPLE -8



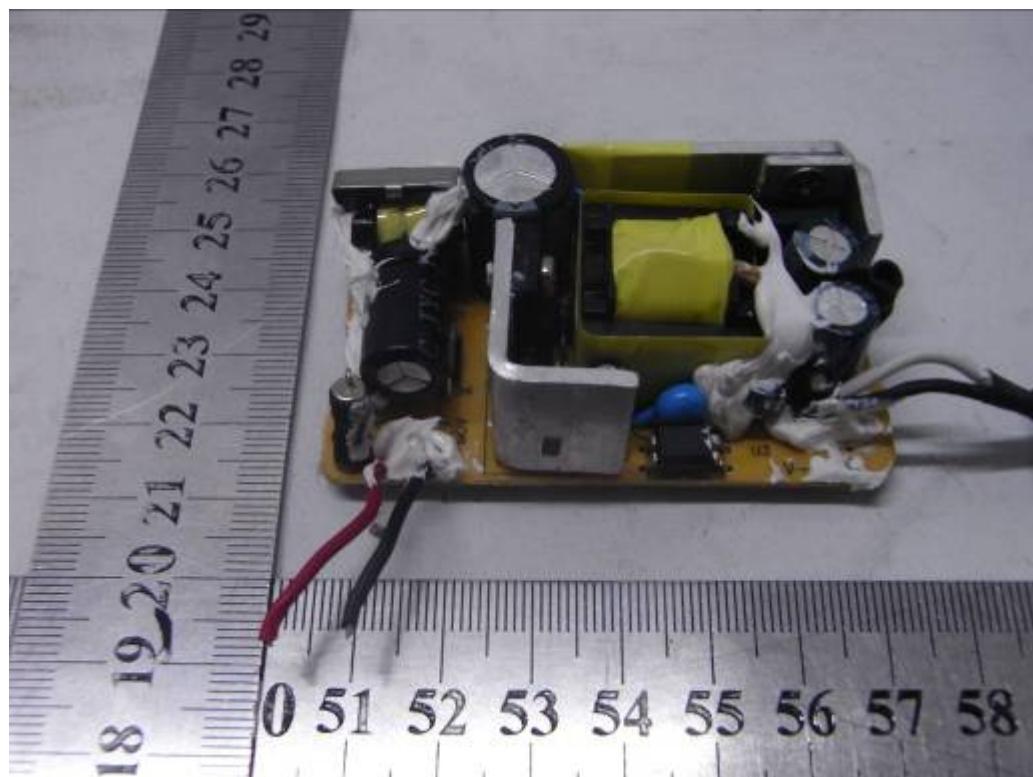
INTERNAL PHOTO OF SAMPLE -9



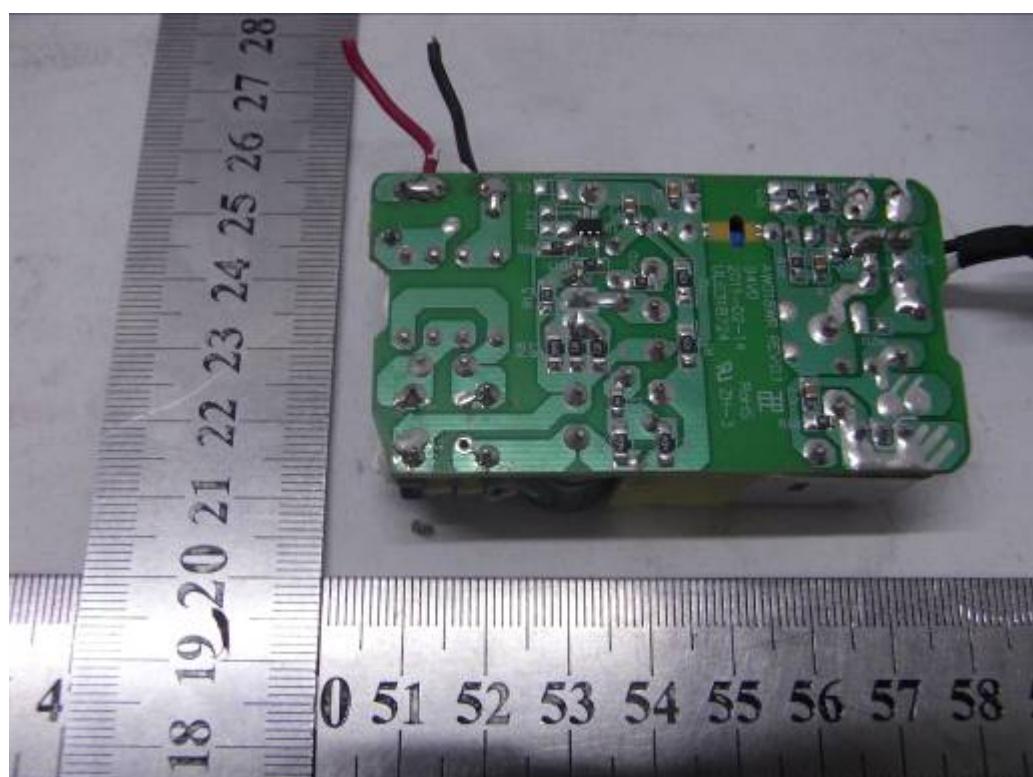
INTERNAL PHOTO OF SAMPLE -10



INTERNAL PHOTO OF POWER SUPPLY-1



INTERNAL PHOTO OF POWER SUPPLY-2



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