



FCC 47 CFR PART 15 SUBPART B

TEST REPORT

For

Applicant: HELI (SHENZHEN) DIGITAL CO., LTD.

Address: Room1118.11/F, Hualianfa Building(East) No.2006, Huaqiang North, Futian District, Shenzhen, China

Product Name: GSM Mobile Phone

Model Name: T300

Brand Name: Plum

FCC ID: ZEX-PLUMT300

Report No.: STS110522F1

Date of Issue: June. 10, 2011

Issued by: Shenzhen Super Test Service Technology Co., Ltd.

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

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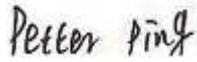
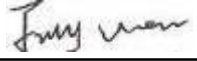
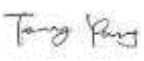
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1. VERIFICATION OF CONFORMITY

Equipment Under Test: GSM Mobile Phone
Brand Name: Plum
Model Number: T300
Series Model Name: N/A
Series Model Difference description: N/A
FCC ID: ZEX-PLUMT300
Applicant: HELI (SHENZHEN) DIGITAL CO., LTD.
Room1118.11/F, Hualianfa Building(East) No.2006, Huaqiang North, Futian District, Shenzhen, China
Manufacturer: HELI (SHENZHEN) DIGITAL CO., LTD.
Room1118.11/F, Hualianfa Building(East) No.2006, Huaqiang North, Futian District, Shenzhen, China
Technical Standards: FCC Part 15 B
File Number: STS110522F1
Date of test: June. 1 ~ June. 10, 2011
Deviation: None
Condition of Test Sample: Normal
Test Result: PASS

The above equipment was tested by Shenzhen Super Test Service Technology Co., Ltd. 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. 10, 2011
Review by (+ signature):	
	July Wen June. 10, 2011
Approved by (+ signature):	
	Terry Yang June. 10, 2011

2. GENERAL INFORMATION

2.1 PRODUCT INFORMATION

EUT1- Mobile Phone	
Description:	GSM Mobile Phone
Model Name:	T300
Serial No.:	N/A
Model Difference description:	N/A
IMEI No.:	352273017386340/ 352751019523267
Frequency:	Tx: 824.2-848.8 MHz 1850.2-1909.8 MHz Rx: 849.2-893.8 MHz 1930.2-1989.8 MHz
Hardware Version:	F568-PCB-V1.2
Software Version:	7707-HELI-QQVGA-1040-V03-110412-EN-POR-FRE-SPA
EUT2- Battery	
Description:	Lithium-ion Battery
Model Name:	T300
Brand Name:	Plum
Manufacturer:	SHENZHEN BATTERY POWER TECHNICAL CO., LTD.
Capacitance:	600 mAh
Rated Voltage:	3.7V
Charge Limit:	4.2V
EUT3 – Power Supply	
Description:	Travel Charger
Model Name:	T300
Brand Name:	Plum
Manufacturer:	SHENZHEN JINSHUI TECHNOLOGY CO., LTD.
Rated Input:	AC 100-240V, 50/60Hz, 0.15A
Rated Output:	DC 5V, 0.5A
Length of DC power cable:	0.9m

NOTE:

1. The EUT is a model of GSM Portable Mobile Station (MS). It consists of **hand telephone set, Lithium battery, headphone** and **Charger** as listed above.
2. 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 (10-1-05 Edition)	§15.107	Conducted Emission	PASS	Meet Class B limit
	§15.109	Radiated Emission	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

3. 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.

4. 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	EMC PRO 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 Function and Test Mode

Mode 1: Idle Mode

The MS was registered to the base station simulator but no call was set up.

The EUT configuration of the emission test was **MS + Battery+ Charger**.

Mode 2: Call Mode

Before the measurement, the lithium battery was completely discharge.

During the measurement, the lithium battery and the charger were installed, and the MS were in charging state. A communication link was established between the MS and a System Simulator (SS). The MS operated at GSM 850/1900MHz mid ARFCN and maximum output power.

The EUT configuration of the emission test was **MS + Battery+ Charger**.

Mode 3: GPRS Mode

During the test, the MS was playing the GPRS function continuously.

The EUT configuration of the emission test was **MS + Battery+ Charger**.

Mode 4: Bluetooth Mode

During the measurement, the lithium battery and the charger were installed, and the MS were in charging state. A communication link was established between the EUT and the Bluetooth Earphone and a System Simulator (SS).

The MS operated at GSM 850/1900MHz mid and maximum output power.

During the test, the MS was playing the Bluetooth function continuously.

The EUT configuration of the emission test was **MS + Battery + Charger+BT Earphone**.

Mode 5: MP3/MP4 Mode

During the test, the MS was playing the MP3/MP4 function continuously.

The EUT configuration of the emission test was **MS + Battery + Charger**.

NP-R428-DS0YCN, SN: ZVC093FZ800422X).

Mode 6: Camera Mode

During the test, the MS was playing the camera function continuously.

The EUT configuration of the emission test was **MS + Battery+ Charger**.

Mode 7: FM Mode

During the test, the MS was playing the FM function continuously.

The EUT configuration of the emission test was **MS + Battery + Earphone**.

Mode 8: USB Mode

During the test, the MS was connected with the notebook and made the data transmission function continuously.

The EUT configuration of the emission test was **MS + Battery+ USB Cable**(1.0m, un-shielding)+ **Notebook**(Samsung NP-R428-DS0YCN, SN: ZVC093FZ800422X).

Note: Due to the different configuration and test, in this list only some worse mode. The worst test data of the worse mode is reported by this report.

6. LINE CONDUCTED EMISSION TEST

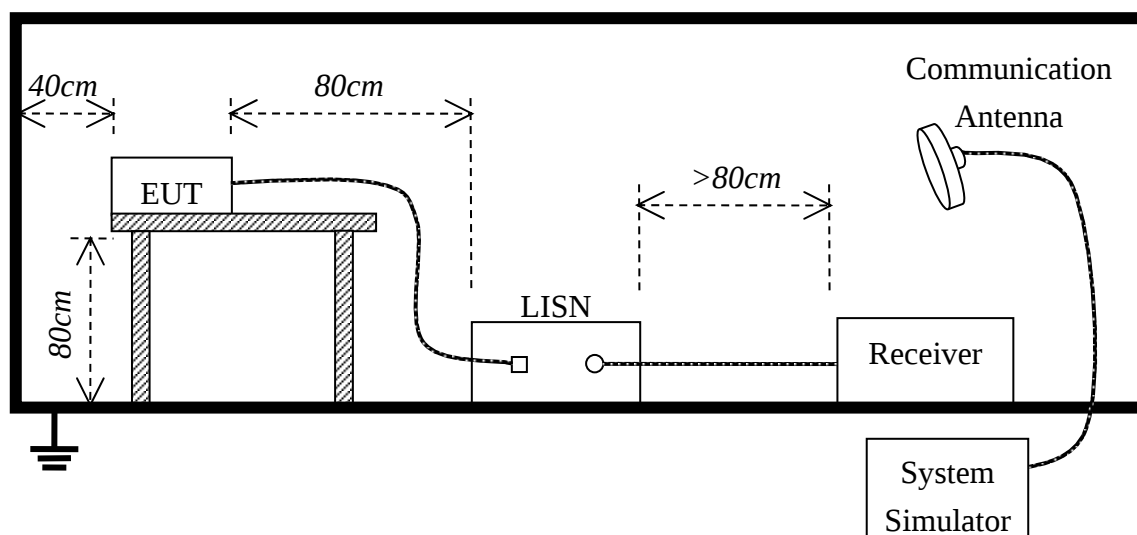
6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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 DC 5V by AC/DC adapter or USB port of 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
Idle Mode	2011-6-1	STS110522F1	T300_1_(L, N)	☐
Call Mode	2011-6-1	STS110522F1	T300_2_(L, N)	☒
GPRS Mode	2011-6-1	STS110522F1	T300_3_(L, N)	☐
Bluetooth Mode	2011-6-1	STS110522F1	T300_4_(L, N)	☐
MP3/MP4 Mode	2011-6-1	STS110522F1	T300_5_(L, N)	☐
Camera Mode	2011-6-1	STS110522F1	T300_6_(L, N)	☐
USB Mode	2011-6-1	STS110522F1	T300_7_(L, N)	☐

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

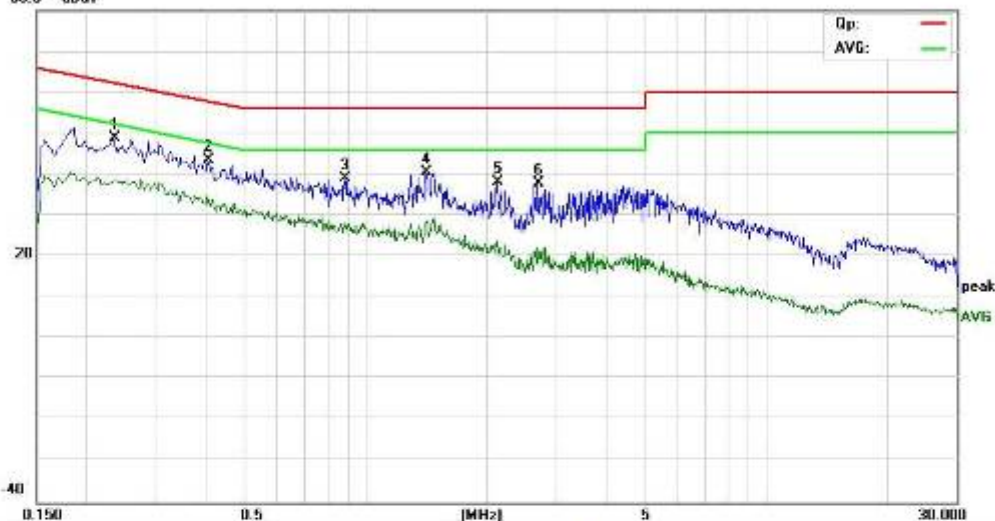
File: T300

Data: #3

Date: 2011/06/01

Time: 20:09:08

00.0 dBuV



Site: site #1

Phase: L1

Temperature: 26

Limit: FCC Part 15 B Class B GP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

MN: T300

Mode: CAMERA

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.2340	37.10	11.77	48.87	62.31	-13.44	peak	
2		0.4020	32.81	10.65	43.46	57.81	-14.35	peak	
3		0.8820	28.91	10.00	38.91	58.00	-17.09	peak	
4		1.4060	31.08	9.59	40.67	58.00	-15.33	peak	
5		2.1140	29.14	9.11	38.25	58.00	-17.75	peak	
6		2.7020	28.19	9.70	37.89	58.00	-18.11	peak	

*Maximum data x: Over limit l: over margin



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Conducted Emission Measurement

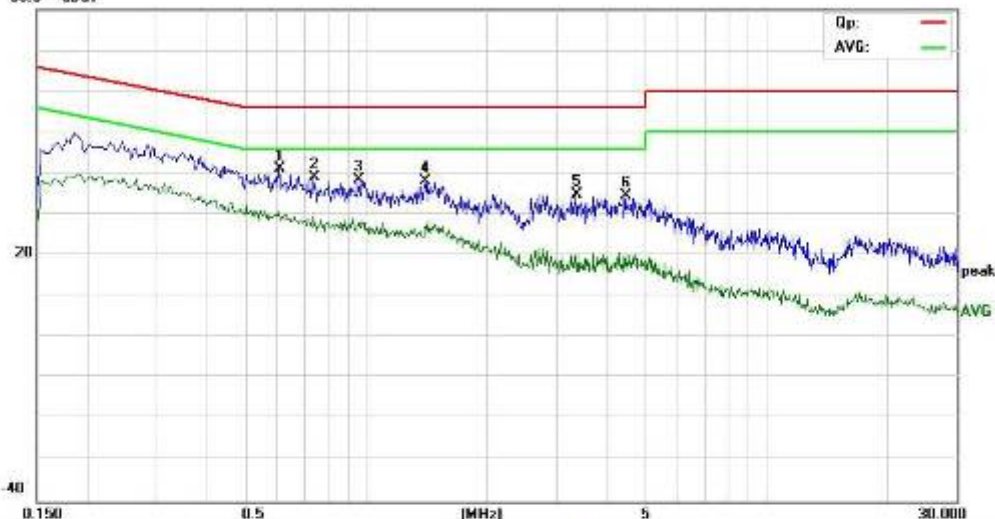
File: T300

Data: #4

Date: 2011/05/01

Time: 20:10:15

00.0 dBuV



Site: site #1

Phase: N

Temperature: 26

Limit: FCC Part 15 B Class B GP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

M/N: T300

Mode: CAMERA

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.6080	31.16	10.00	41.16	58.00	-14.84	peak	
2		0.7420	29.08	10.00	39.08	58.00	-18.94	peak	
3		0.9580	28.52	10.00	38.52	58.00	-17.48	peak	
4		1.4020	28.45	9.80	38.05	58.00	-17.95	peak	
5		3.3500	24.51	10.35	34.86	58.00	-21.14	peak	
6		4.4680	23.12	11.47	34.59	58.00	-21.41	peak	

* Maximum data x Over limit ! Over margin



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Conducted Emission Measurement

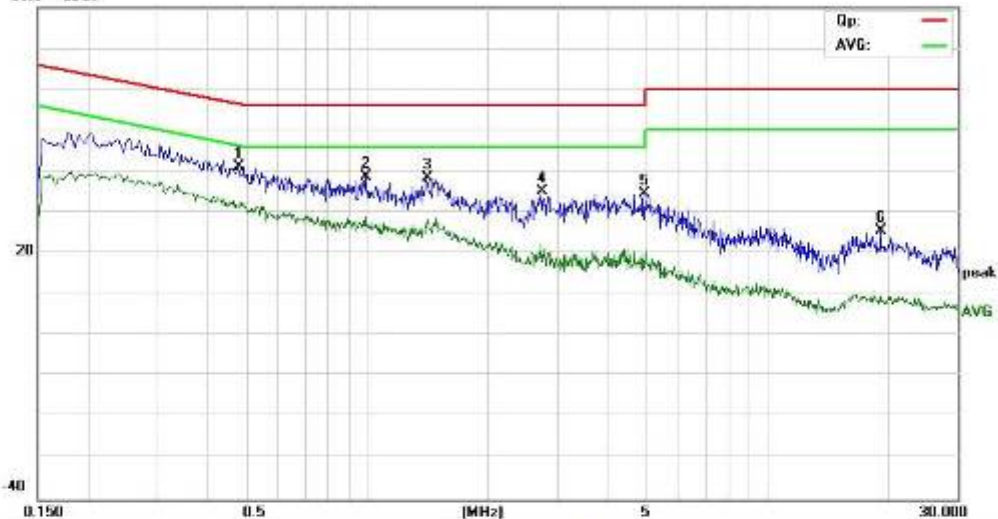
File: T300

Data: #5

Date: 2011/05/01

Time: 20:12:11

00.0 dBuV



Site: site #1

Phase: L1

Temperature: 26

Limit: FCC Part 15 B Class B GP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

M/N: T300

Mode: CALL

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.4780	30.99	10.15	41.14	58.37	-15.23	peak	
2		0.8940	28.89	10.00	38.89	58.00	-17.11	peak	
3		1.4100	28.74	9.59	38.33	58.00	-17.67	peak	
4		2.7300	25.43	9.73	35.19	58.00	-20.81	peak	
5		4.9100	22.58	11.91	34.49	58.00	-21.51	peak	
6		19.3180	16.62	9.00	25.62	60.00	-34.38	peak	

* Maximum data x: Over limit !: over margin



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Guangdong, China
Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement

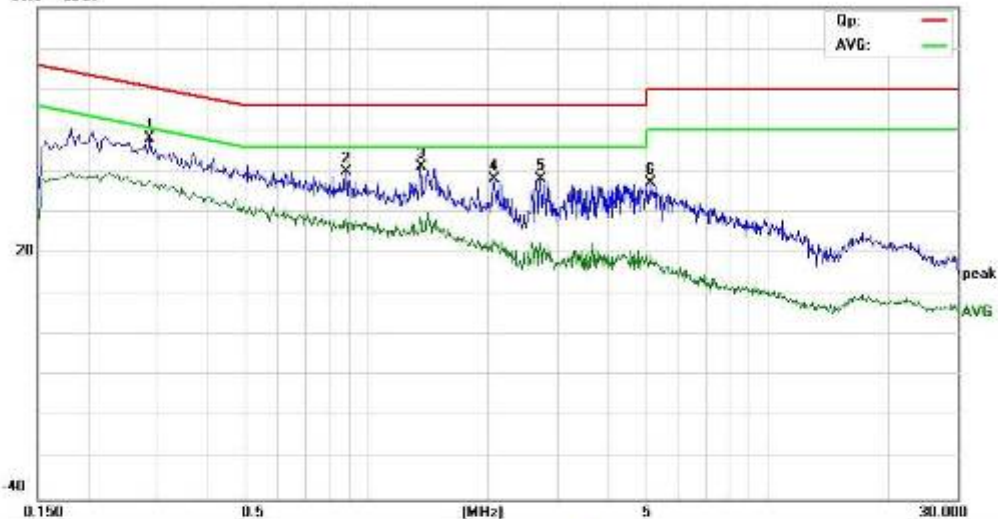
File: T300

Data: #5

Date: 2011/05/01

Time: 20:13:12

00.0 dBuV



Site: site #1

Phase: **N**

Temperature: 26

Limit: FCC Part 15 B Class B GP

Power: AC 120V/60Hz

Humidity: 60 %

EUT: GSM MOBILE PHONE

M/N: T300

Mode: CALL

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.2880	36.55	11.43	47.98	60.64	-12.66	peak	
2		0.8820	29.93	10.00	39.93	58.00	-18.07	peak	
3		1.3540	31.58	9.85	41.23	58.00	-14.77	peak	
4		2.0620	29.05	9.06	38.11	58.00	-17.89	peak	
5		2.7140	28.37	9.71	38.08	58.00	-17.92	peak	
6		5.0860	25.42	11.95	37.37	60.00	-22.63	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 15.109, 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:

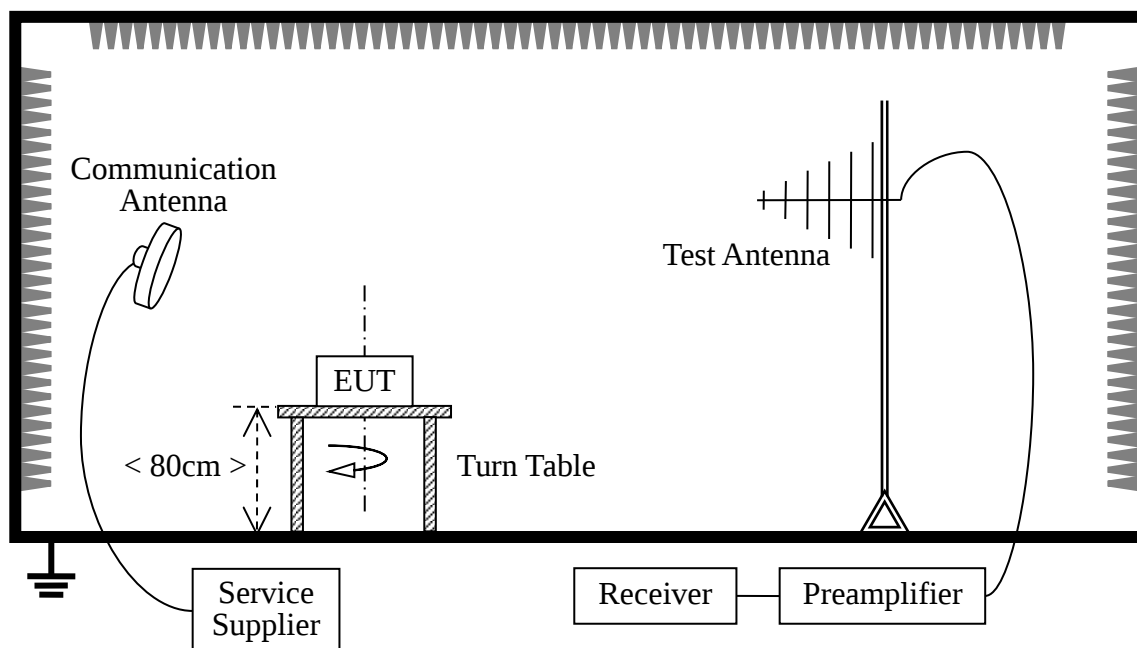
Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

NOTE:

1. Field Strength ($\text{dB}\mu\text{V/m}$) = $20 \cdot \log[\text{Field Strength } (\mu\text{V/m})]$.
2. In the emission tables above, the tighter limit applies at the band edges.

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:

(a) 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.

(b) 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
Idle Mode	2011-6-7	STS110522F1	T300_1_(H, V)	☐
Call Mode	2011-6-7	STS110522F1	T300_2_(H, V)	☒
GPRS Mode	2011-6-7	STS110522F1	T300_3_(H, V)	☐
Bluetooth Mode	2011-6-7	STS110522F1	T300_4_(H, V)	☐
MP3/MP4 Mode	2011-6-7	STS110522F1	T300_5_(H, V)	☐
Camera Mode	2011-6-7	STS110522F1	T300_6_(H, V)	☐
FM Mode	2011-6-7	STS110522F1	T300_7_(H, V)	☐
USB Mode	2011-6-7	STS110522F1	T300_1_(H, V)	☐

7.3 TEST RESULT



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

Radiated Emission Measurement

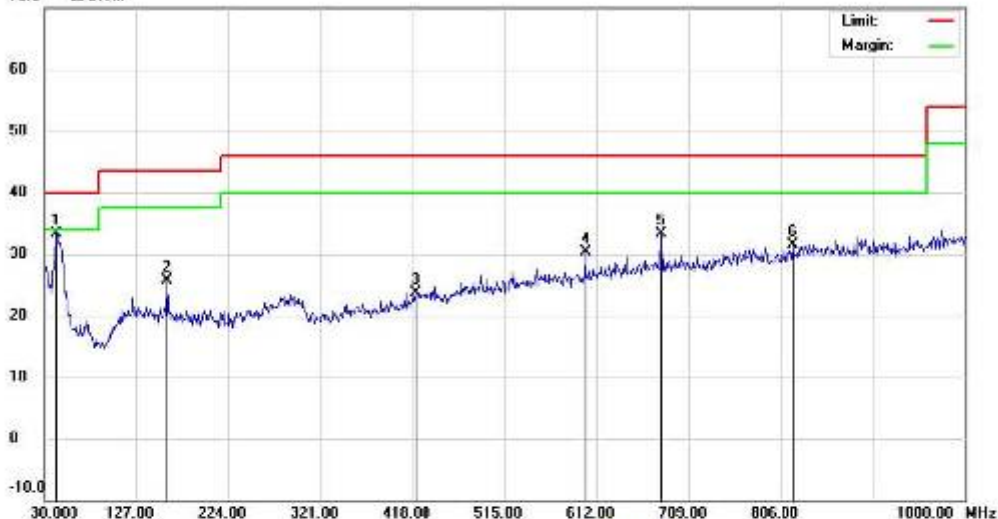
File: T300

Data: #1

Date: 2011-6-7

Time: 19:42:49

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: GSM MOBILE PHONE

Distance:

MN: T300

Mode: CAMERA

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	*	42.8100	18.28	15.13	33.39	40.00	-6.61	peak			
2		159.9800	8.40	17.30	25.70	43.50	-17.80	peak			
3		420.9100	3.72	20.05	23.77	46.00	-22.23	peak			
4		600.3600	7.38	23.01	30.39	46.00	-15.61	peak			
5		879.9000	8.90	24.50	33.40	46.00	-12.60	peak			
6		819.5800	5.01	26.47	31.48	46.00	-14.52	peak			

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



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

Radiated Emission Measurement

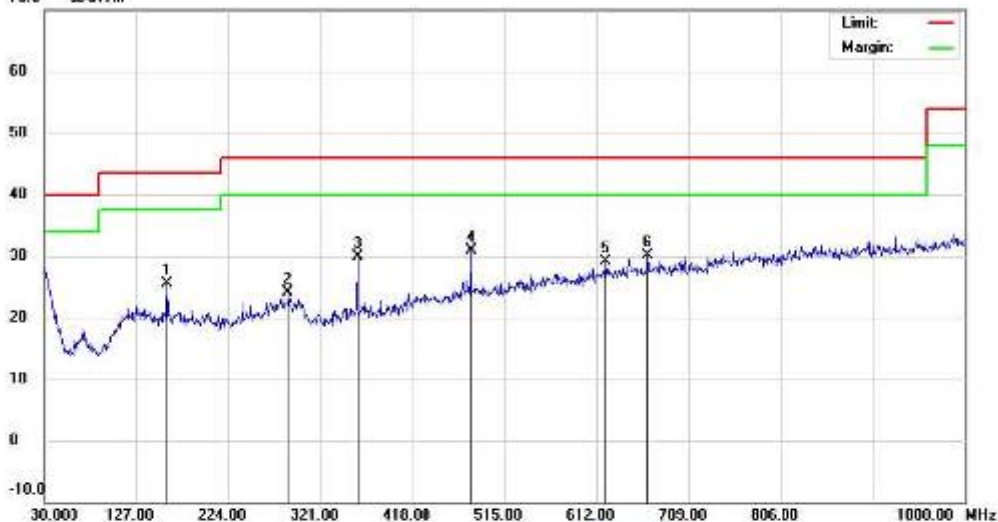
File: T300

Data: #2

Date: 2011-6-7

Time: 19:44:06

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 61 %

EUT: GSM MOBILE PHONE

Distance:

MN: T300

Mode: CAMERA

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1		159.9800	8.19	17.30	25.49	43.50	-18.01	peak			
2		207.0500	4.78	19.43	24.19	46.00	-21.81	peak			
3		359.8000	11.52	18.30	29.82	46.00	-16.18	peak			
4	*	480.0800	9.11	21.70	30.81	46.00	-15.19	peak			
5		621.7000	5.53	23.53	29.06	46.00	-16.94	peak			
6		865.3500	5.74	24.31	30.05	46.00	-15.95	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: T300

Data: #5

Date: 2011-6-7

Time: 20:32:38

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 81 %

EUT: GSM MOBILE PHONE

Distance:

MN: T300

Mode: CALL

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	*	42.8100	18.75	15.13	33.88	40.00	-6.12	peak			
2		126.0300	7.60	17.70	25.30	43.50	-18.20	peak			
3		176.4700	12.45	16.88	29.33	43.50	-14.17	peak			
4		232.7300	7.49	16.69	24.18	46.00	-21.82	peak			
5		800.3600	7.30	23.01	30.31	46.00	-15.69	peak			
6		743.8200	8.64	25.74	32.28	46.00	-13.72	peak			

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

Notes: The spikes which exceed the limit should be ignored because they are MS and SS carrier frequency.



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

Radiated Emission Measurement

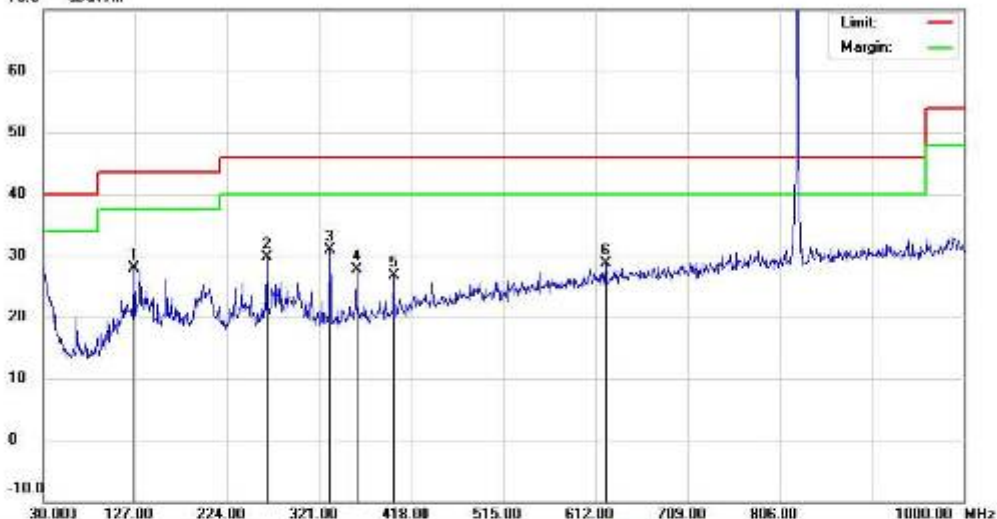
File: T300

Data: #6

Date: 2011-6-7

Time: 20:34:01

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part 15 B 3M Radiation

Power: AC 120V/60Hz

Humidity: 51 %

EUT: GSM MOBILE PHONE

Distance:

M/N: T300

Mode: CALL

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1		126.0300	10.12	17.70	27.82	43.50	-15.68	peak			
2		285.7100	11.32	18.35	29.67	46.00	-16.33	peak			
3	*	331.6700	13.79	17.02	30.81	46.00	-15.19	peak			
4		359.8000	9.45	18.30	27.75	46.00	-18.25	peak			
5		398.6000	8.06	18.66	26.72	46.00	-19.28	peak			
6		622.6700	5.18	23.55	28.73	46.00	-17.27	peak			

*Maximum data x:Over limit l:lower margin

Notes: The spikes which exceed the limit should be ignored because they are MS and SS carrier frequency.

The worst test data above 1 GHz was showed as the follow:

Operation Mode: CALL(850MHz)

Test Date: June. 7, 2011

Temperature: 24°C

Tested by: Petter Ping

Humidity: 70 % RH

Polarity: Ver. / Hor.

Freq. (MHz)	Ant. H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)				
1717.50	H	58.79	40.31	9.06	67.85	49.37	74.00	54.00	-6.15	-4.63
2765.50	H	55.37	36.58	9.09	64.46	45.67	74.00	54.00	-9.54	-8.33
N/A										>20
1717.50	V	56.47	36.26	9.06	65.53	45.32	74.00	54.00	-8.47	-8.68
2765.00	V	54.66	35.87	9.09	63.75	44.96	74.00	54.00	-10.25	-9.04
N/A										>20

Notes:

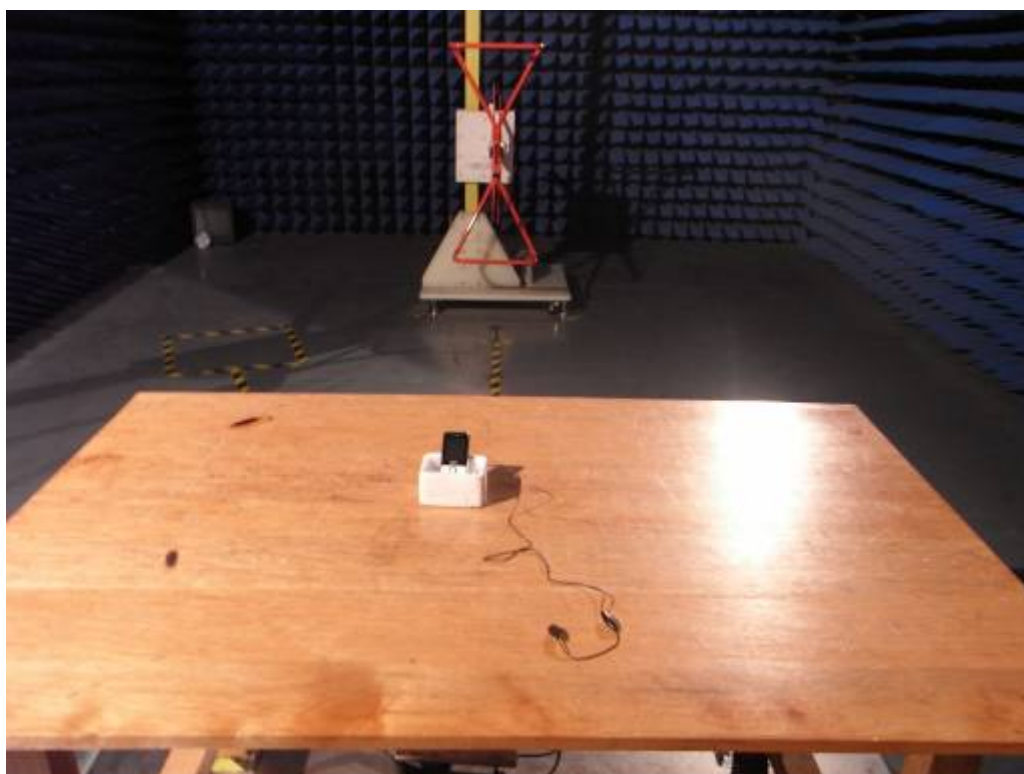
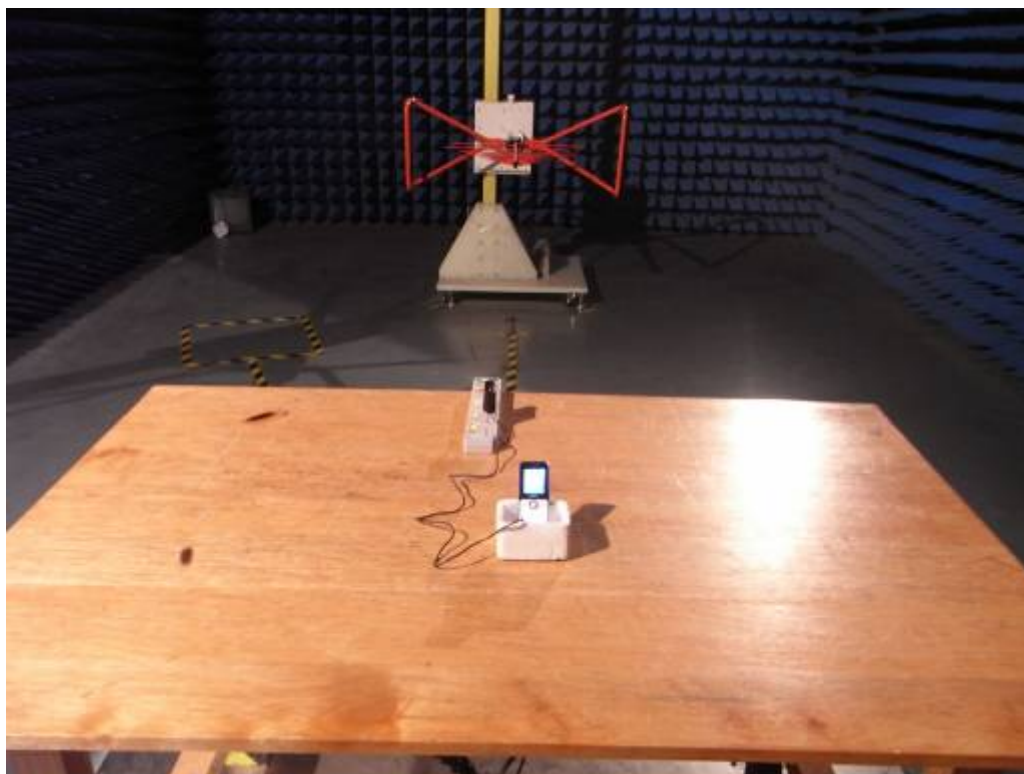
1. Measuring frequencies from 1 GHz to 6GHz.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
3. The frequency that above 3GHz is mainly from the environment noise.

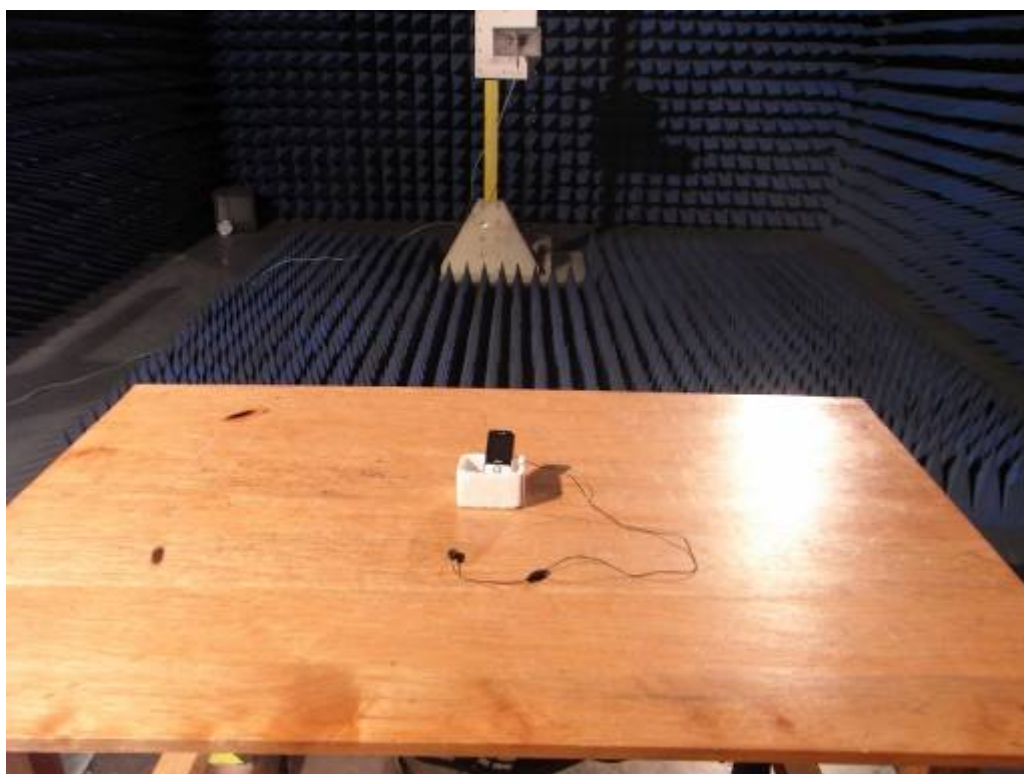
APPENDIX 1
PHOTOGRAPHS OF TEST SETUP

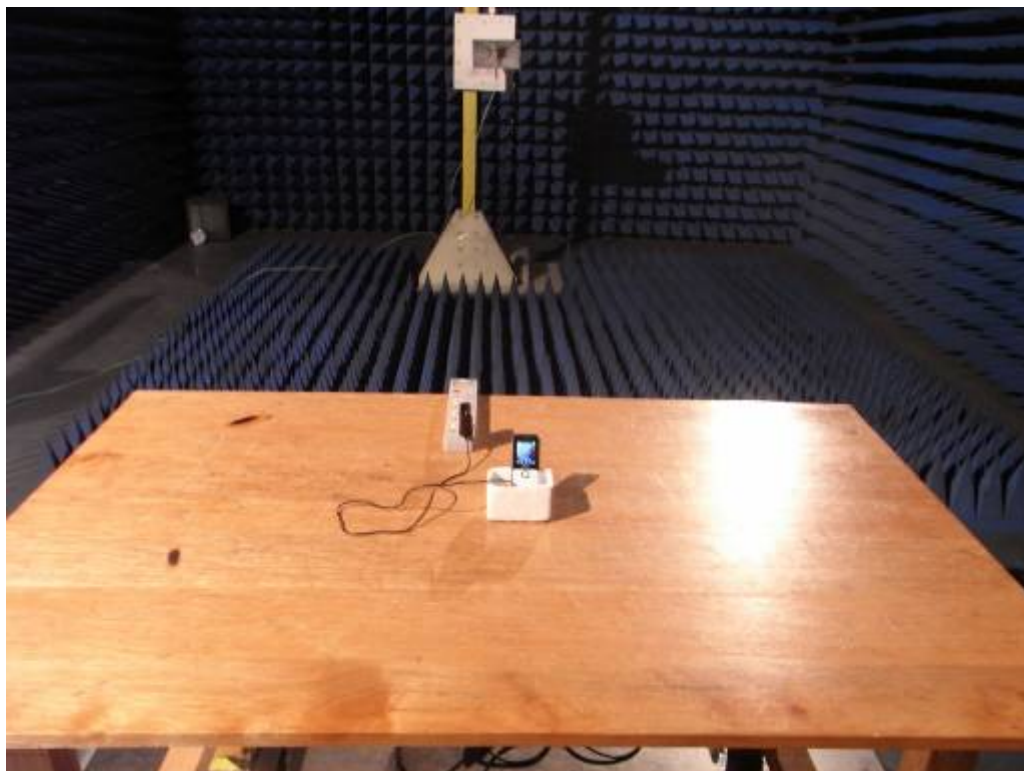
CE TEST SETUP



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 EARPHONE



PHOTO OF POWER SUPPLY



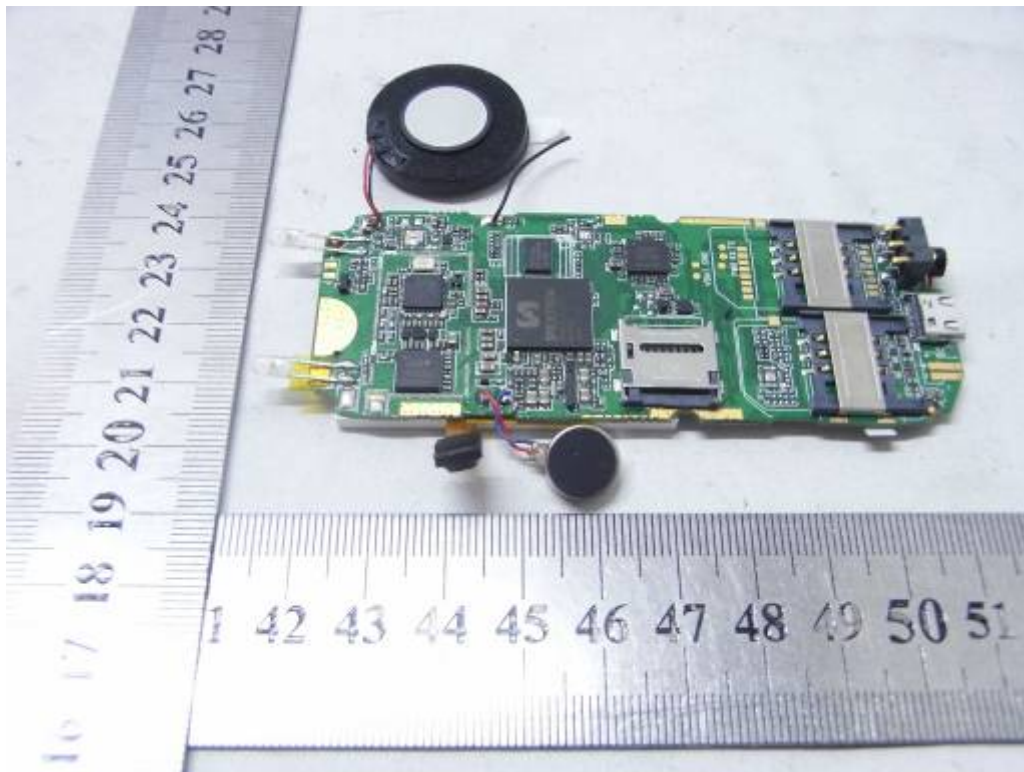
PHOTO OF BATTERY



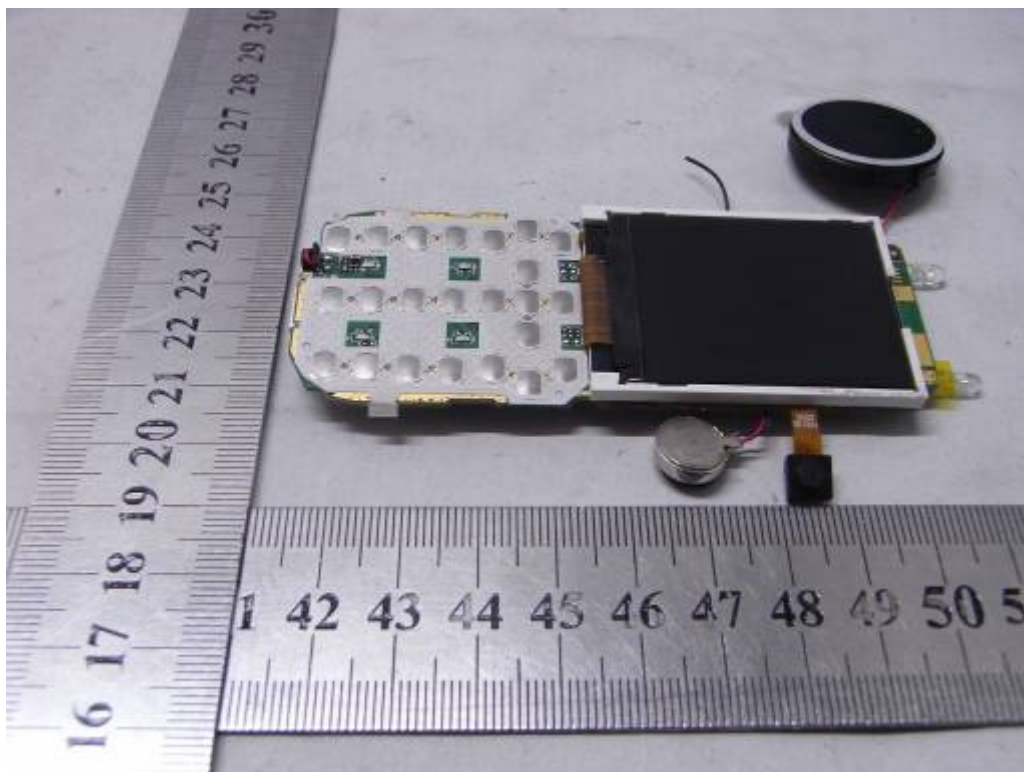
PHOTO OF THE ENTIRE SAMPLE



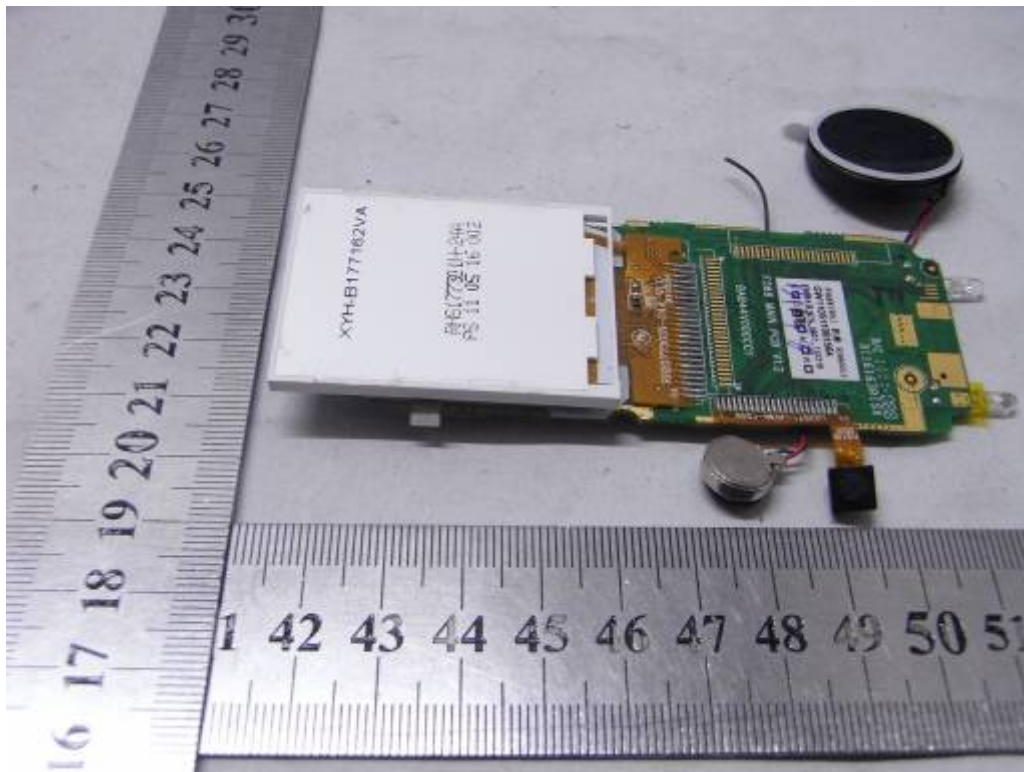
INTERNAL PHOTO OF SAMPLE – 1



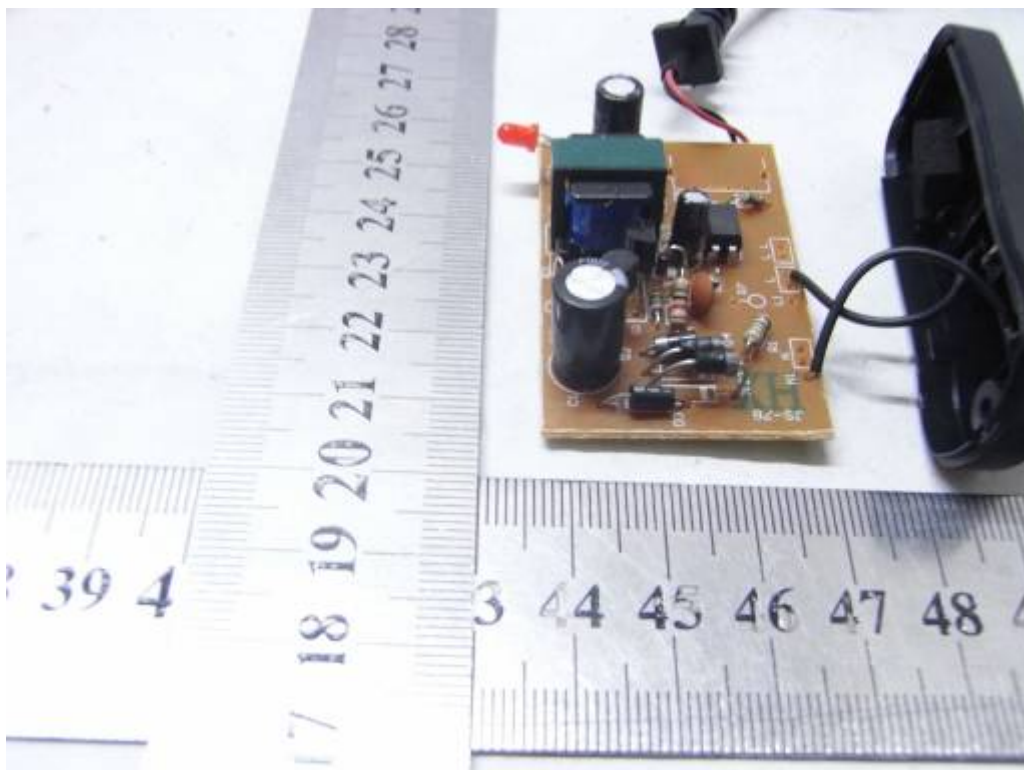
INTERNAL PHOTO OF SAMPLE – 2



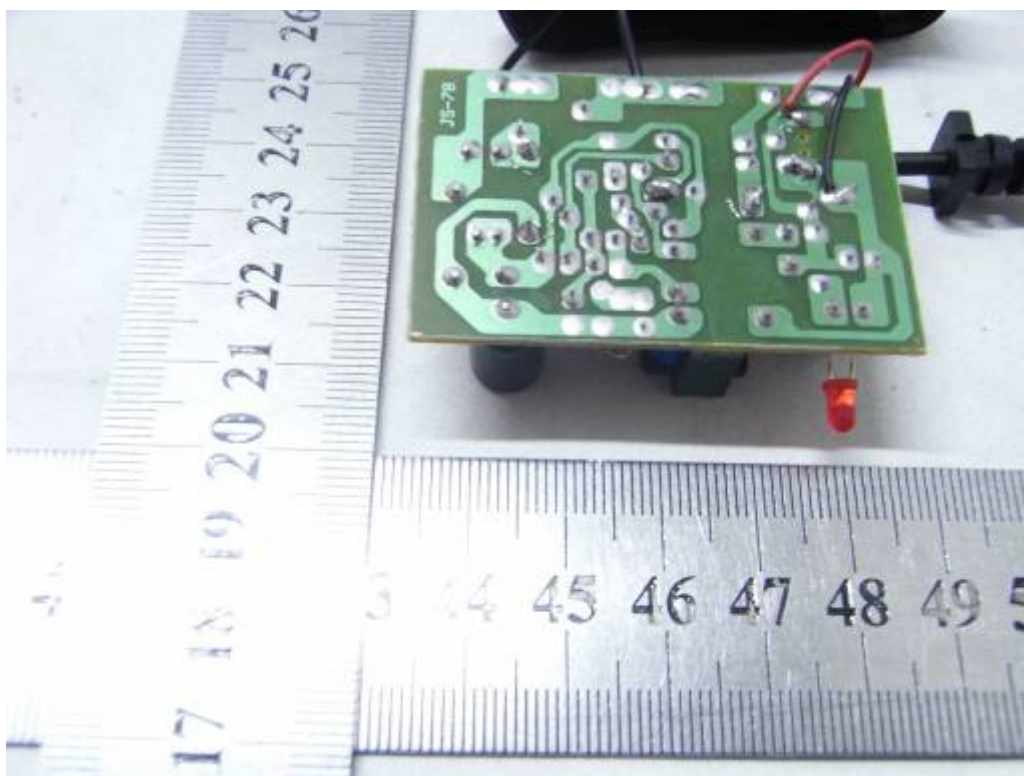
INTERNAL PHOTO OF SAMPLE -3



INTERNAL PHOTO OF POWER SUPPLY-1



INTERNAL PHOTO OF POWER SUPPLY-2



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