



FCC TEST REPORT

47 CFR FCC Part 15 Subpart B

Report Reference No.....: TRE1403007406 R/C: 95277

FCC ID.....: 2AB2LCYNUST7

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Wenliang Li

Date of issue.....: Mar 31, 2014

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd

Address: Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Applicant's name: Mobistel GmbH

Address: Rudolf-Diesel-Str.18.65760 Eschborn , Germany

Test specification:

Standard: 47 CFR FCC Part 15 Subpart B - Unintentional Radiators

ANSI C63.4: 2009

TRF Originator.....: Shenzhen Huatongwei International Inspection CO., Ltd

Master TRF.....: Dated 2006-06

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Test item description: mobile phone

Trade Mark: mobistel

Model/Type reference.....: Cynus T7

Listed Models: /

Manufacturer: Mobistel GmbH

Rating: DC 3.70V

Hardware version: Cynus T7_V003

Software version: 3.4.5

Android version: 4.2.2

Result.....: PASS

T E S T R E P O R T

Test Report No. : TRE1403007406	Mar 14, 2014
	Date of issue

Equipment under Test : mobile Phone

Model /Type : Cynus T7

Listed Models : /

Applicant : **Mobistel GmbH**

Address : Rudolf-Diesel-Str.18.65760 Eschborn , Germany

Manufacturer : **Mobistel GmbH**

Address : Rudolf-Diesel-Str.18.65760 Eschborn , Germany

Test Result	PASS
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

[47 CFR FCC Part 15 Subpart B](#) - Unintentional Radiators

[ANSI C63.4: 2009](#) – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Nov 11, 2013
Testing commenced on	:	Nov 31, 2013
Testing concluded on	:	Mar 31, 2014

2.2. Product Description

The **Mobistel GmbH's** Model: Cynus T7 or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

Name of EUT	mobile Phone
Model Number	Cynus T7
FCC ID	2AB2LCYNUST7
Modulation Type	QPSK for WCDMA, GMSK for GSM/GPRS/EDGE
Antenna Type	Internal
Hardware version	Cynus T7_V003
Software version	3.4.5
Android version	4.2.2
GSM/EDGE/GPRS	Supported GSM/GPRS/EDGE
WCDMA Operation Frequency Band	FDD Band II, FDD Band V
HSDPA Release Version	Release 8
HSUPA Release Version	Release 6
WCDMA Release Version	R99
Extreme temp. Tolerance	-30°C to +60°C
Extreme vol. Limits	3.40VDC to 4.20VDC (nominal: 3.70VDC)
GSM/GPRS Operation Frequency Band	GSM850/PCS1900
GSM Release Version	R99
GPRS operation mode	Class B
GPRS Multislot Class	12
EGPRS Multislot Class	12

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 120V / 60 Hz	☐ 115V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

DC 3.70V

2.4. EUT operation mode

The EUT has been tested under typical operating condition.

2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AB2LCYNUST7** filing to comply with the FCC Part 15, Subpart B Rules.

2.6. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE2	Charger and USB cable

AE1

Model: Cynus T7
 Manufacturer: Mobistel GmbH
 Capacitance: 2600mAh
 Nominal Voltage: 3.70V

AE2:

Model: Cynus T7
 Manufacturer: Mobistel GmbH
 Input: 100-240V~50/60Hz 0.15A
 Output: OUTPUT: 5.0V DC 1.0A
 Power Cable Length: 96cm
☐ Shielded ☒ Unshielded

*AE ID: is used to identify the test sample in the lab internally.
 Note: We not used Charger when FCC Part 15B test.

2.7. Modifications

No modifications were implemented to meet testing criteria.

2.8. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

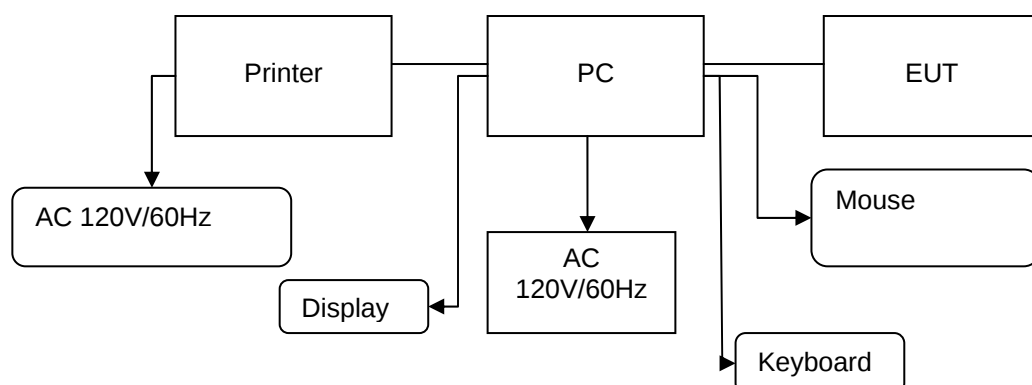
☒ - supplied by the manufacturer

☐ - supplied by the lab

☐	Power Cable	Length (m) :	/
		Shield :	/
		Detachable :	/
☐	Multimeter	Manufacturer :	/
		Model No. :	/

2.9. Configuration of Tested System

Configuration of Tested System



Equipment Used in Tested System

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/unshielded	Notes
1	PC	DELL	DIMENSION E520	1RNN42X	/	/	DOC
2	Printer	ESPOn	C3990	C3990A	/	/	DOC
3	Mouse	DELL	MO56U OA	G0E02SY7	1.00m	unshielded	DOC
4	Display	DELL	1707FPt	CN-OFC237-71618-65G-AAKC	/	/	DOC
5	Keyboard	DELL	L100	CNRH65665890726009L	/	/	DOC
6	USB Cable (EUT to PC)	Mobistel GmbH	USB 2.0	N/A	0.80m	unshielded	N/A
7	USB Cable (Printer to PC)	Genshuo	USB 2.0	N/A	1.20m	unshielded	N/A
8	Power line	/	/	N/A	1.00m	unshielded	N/A

2.10. NOTE

1. The EUT is a mobile Phone WCDMA/HSUPA/HSDPA/GPRS/GSM,WLAN and Bluetooth function,The functions of the EUT listed as below:

	Test Standards	Reference Report
GSM/GPRS/EGPRS	FCC Part 22/FCC Part 24	TRE1403007401
WCDMA/HSUPA/HSDPA	FCC Part 22/FCC Part 24	TRE1403007402
WLAN	FCC Part 15 C 15.247	TRE1403007403
Bluetooth v2.1	FCC Part 15 C 15.247	TRE1403007404
Bluetooth 4.0	FCC Part 15 C 15.247	TRE1403007405
USB Port	FCC Part 15 B	TRE1403007406
SAR	FCC Part 2 §2.1093	TRE1403007407

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Huatongwei International Inspection Co., Ltd
Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China
Phone: 86-755-26715686 Fax: 86-755-26748089

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2003) and CISPR Publication 22.

3.2. Test Facility

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

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: Mar. 29, 2012. Valid time is until Feb. 28, 2015.

A2LA-Lab Cert. No. 2243.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept. 30, 2015.

FCC-Registration No.: 662850

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 662850, Renewal date June. 01, 2012, valid time is until June. 01, 2015.

IC-Registration No.: 5377A

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Jan. 25, 2011, valid time is until Jan. 24, 2014.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

VCCI

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) and Shielded Room (8m×4m×3m) of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2010. Valid time is until Dec. 23, 2013.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2009. Valid time is until Dec. 19, 2012.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2010. Valid time is until May 06, 2013.

DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2016.

3.3. Environmental conditions

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

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.24 dB	(1)
Radiated Emission	1~18GHz	5.16 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.39 dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.5. Equipments Used during the Test

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Artificial Mains	Rohde&Schwarz	ESH2-Z5	100028	2013/10/26
2	EMI Test Receiver	Rohde&Schwarz	ESCI	100106	2013/10/26
3	Pulse Limiter	Rohde&Schwarz	ESHSZ2	100044	2013/10/26
4	EMI Test Software	Rohde&Schwarz	ES-K1 V1.71	N/A	N/A

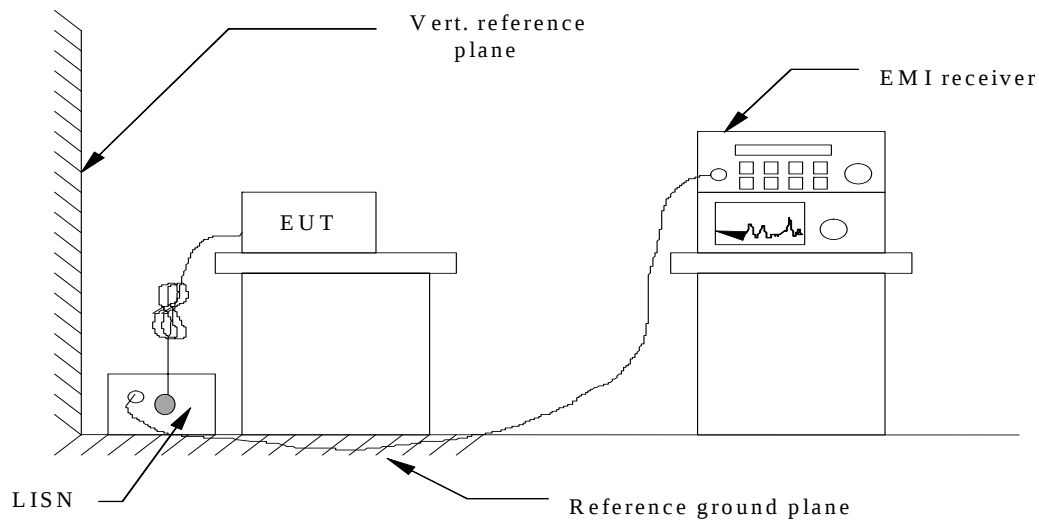
Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	ShwarzBeck	VULB9163	538	2013/10/26
2	EMI TEST RECEIVER	Rohde & Schwarz	ESI 26	100009	2013/10/26
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	MATURO	TT2.0	----	N/A
5	ANTENNA MAST	MATURO	TAM-4.0-P	----	N/A
6	EMI TEST Software	Rohde & Schwarz	ESK1	N/A	N/A
7	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	2013/10/26
8	Amplifier	Sonoma	310N	E009-13	2013/10/26
9	JS amplifier	Rohde & Schwarz	JS4-00101800-28-5A	F201504	2013/10/26
11	TURNTABLE	ETS	2088	2149	N/A
12	ANTENNA MAST	ETS	2075	2346	N/A
13	HORN ANTENNA	Rohde&Schwarz	HF906	100039	2013/10/26

The calibration interval was one year.

4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. 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 ANSI C63.4-2009.
2. Support equipment, if needed, was placed as per ANSI C63.4-2009.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4-2009.
4. The EUT received DC 5.0 from USB powered from 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 AC power from a second LISN, 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 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

CONDUCTED POWER LINE EMISSION LIMIT

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following :

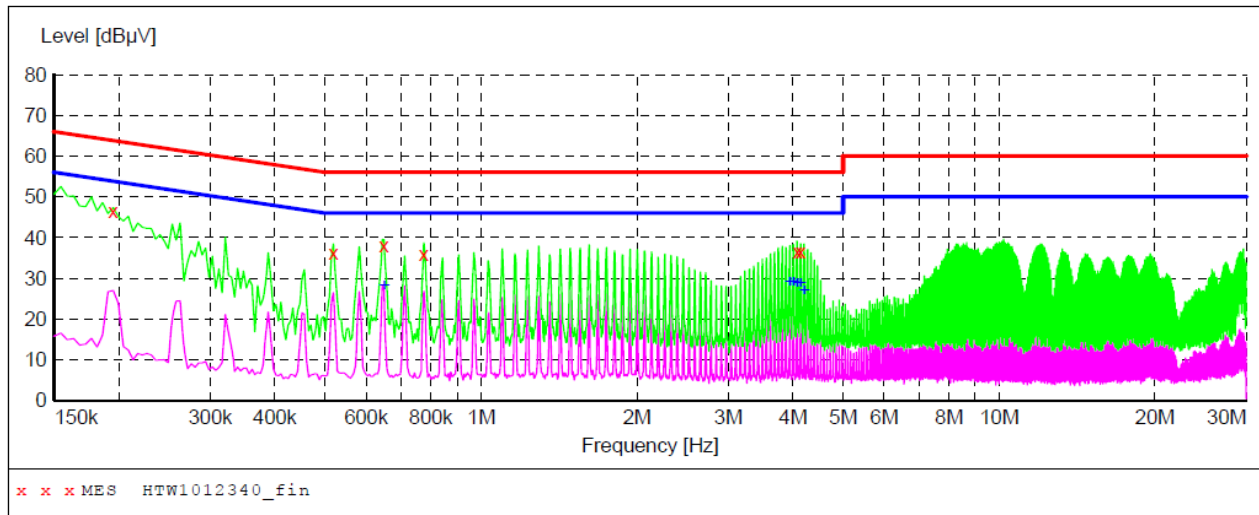
Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

TEST RESULTS

SCAN TABLE: "Voltage (9K-30M) FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "HTW1012340_fin"**

03/31/2014 3:13PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.195000	46.60	10.1	64	17.2	QP	N	GND
0.519000	36.30	10.1	56	19.7	QP	N	GND
0.649500	38.00	10.2	56	18.0	QP	N	GND
0.775500	36.00	10.2	56	20.0	QP	N	GND
4.078500	36.70	10.3	56	19.3	QP	N	GND
4.141500	36.40	10.3	56	19.6	QP	N	GND

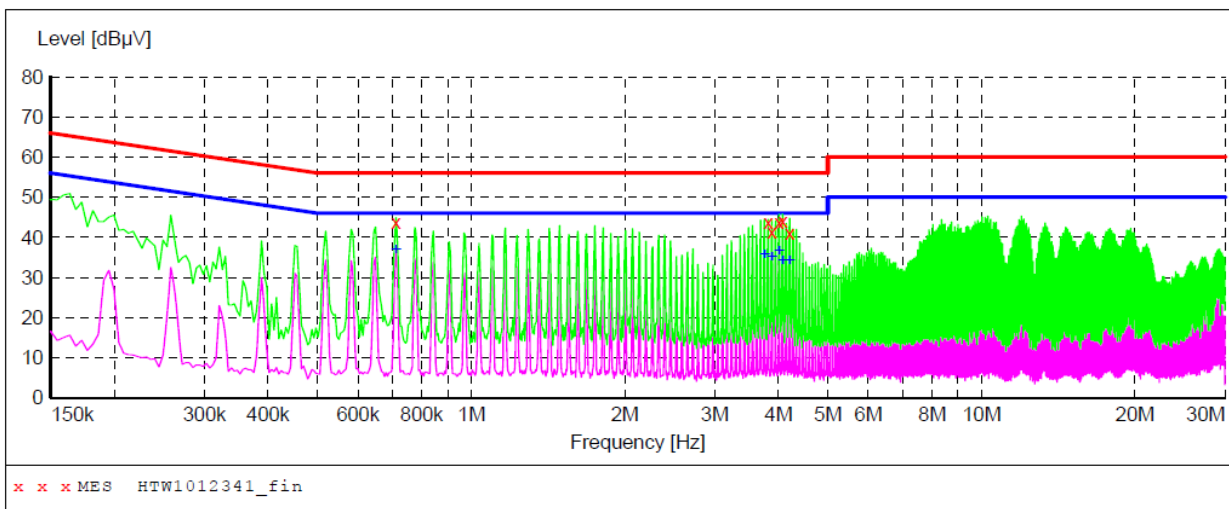
MEASUREMENT RESULT: "HTW1012340_fin2"

03/31/2014 3:13PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.649500	28.10	10.2	46	17.9	AV	N	GND
3.948000	29.00	10.3	46	17.0	AV	N	GND
4.011000	29.00	10.3	46	17.0	AV	N	GND
4.078500	28.70	10.3	46	17.3	AV	N	GND
4.141500	28.80	10.3	46	17.2	AV	N	GND
4.209000	27.00	10.3	46	19.0	AV	N	GND

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "HTW1012341_fin"**

03/31/2014 3:15PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.712500	43.80	10.2	56	12.2	QP	L1	GND
3.822000	43.90	10.3	56	12.1	QP	L1	GND
3.885000	41.50	10.3	56	14.5	QP	L1	GND
4.015500	43.80	10.3	56	12.2	QP	L1	GND
4.083000	44.10	10.3	56	11.9	QP	L1	GND
4.209000	41.10	10.3	56	14.9	QP	L1	GND

MEASUREMENT RESULT: "HTW1012341_fin2"

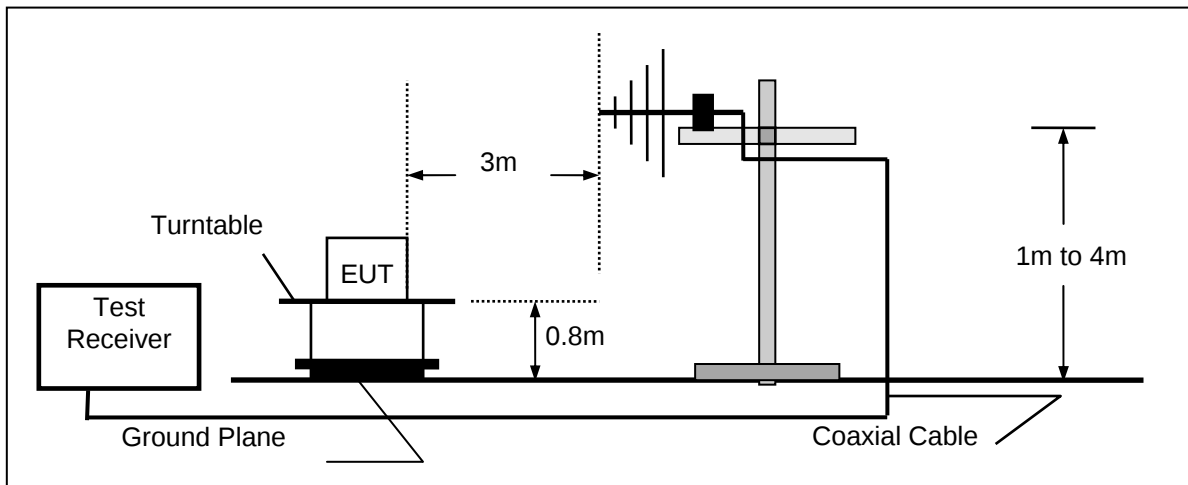
03/31/2014 3:15PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.712500	36.90	10.2	46	9.1	AV	L1	GND
3.759000	35.70	10.3	46	10.3	AV	L1	GND
3.885000	34.90	10.3	46	11.1	AV	L1	GND
4.015500	36.40	10.3	46	9.6	AV	L1	GND
4.078500	34.20	10.3	46	11.8	AV	L1	GND
4.209000	34.20	10.3	46	11.8	AV	L1	GND

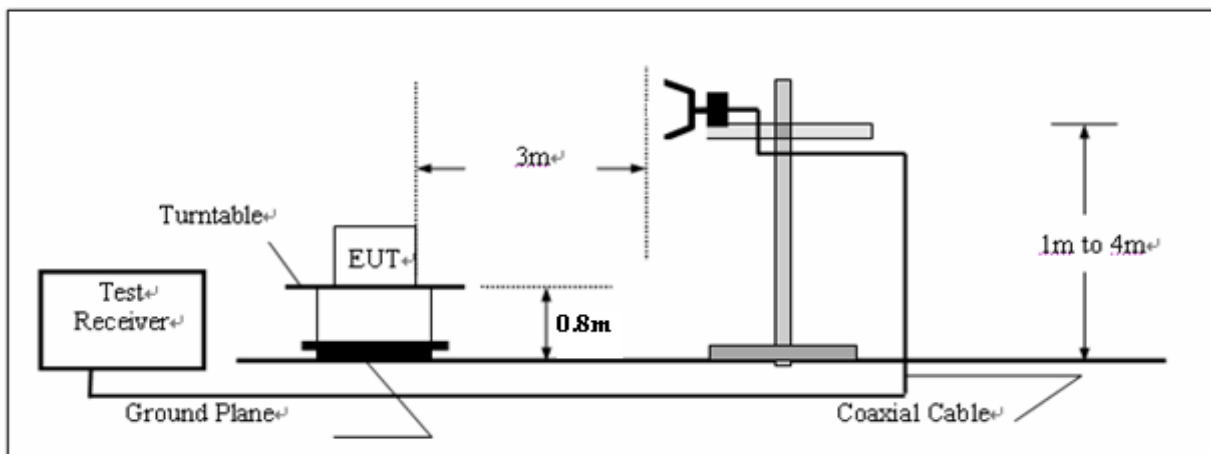
4.2. Radiated Emission Test

TEST CONFIGURATION

a) Radiated Emission Test Set-Up, Frequency below 1000MHz



b) Radiated Emission Test Set-Up, Frequency above 1000MHz



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The maximum operation frequency was 512MHz, the radiated emission test frequency from 30MHz to 18GHz.

FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

For example

Frequency (MHz)	FS (dB μ V/m)	RA (dB μ V/m)	AF (dB)	CL (dB)	AG (dB)	Transd (dB)
300.00	40	58.1	12.2	1.6	31.90	-18.1

$$\text{Transd} = \text{AF} + \text{CL} - \text{AG}$$

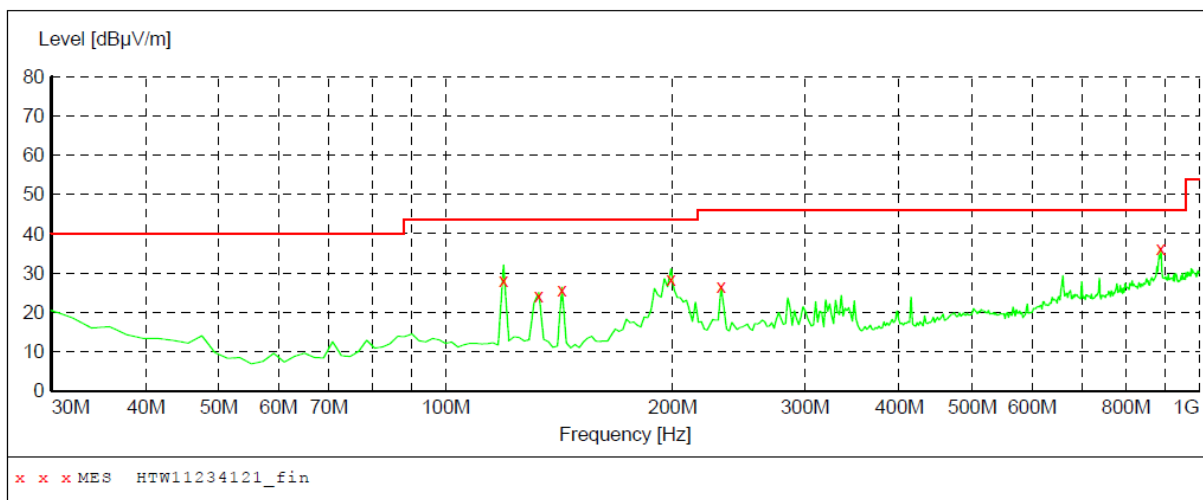
RADIATION LIMIT

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST RESULTS***SWEEP TABLE: "test (30M-1G)"***

Short Description: Field Strength

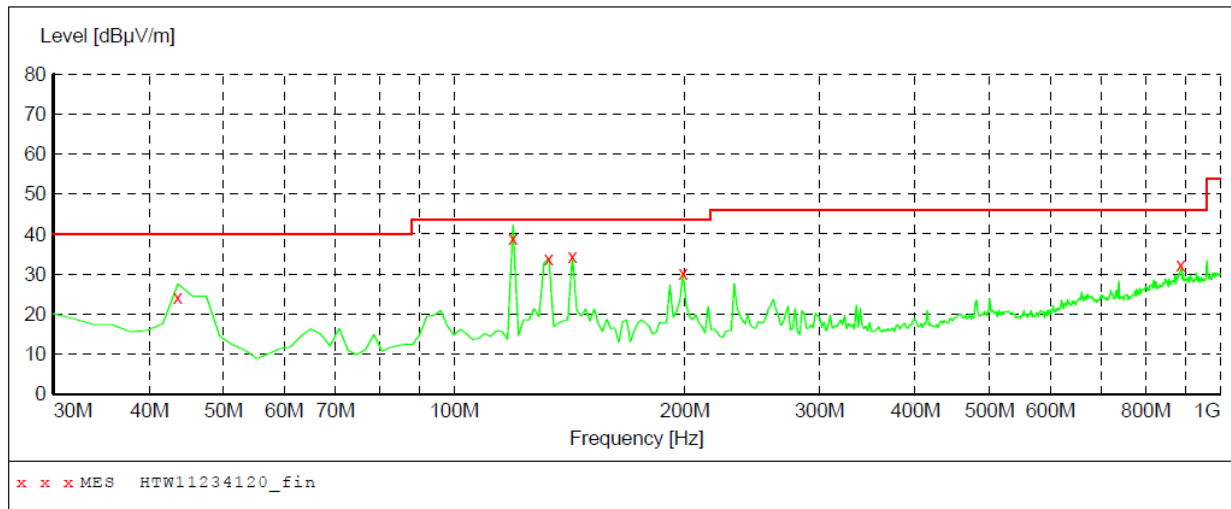
***MEASUREMENT RESULT: "HTW11234121_fin"***

11/23/2013 1:05PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
119.418838	30.10	-17.8	43.5	13.4	Q P	100.0	66.00	HORIZONTAL
133.026052	25.00	-19.3	43.5	18.5	Q P	100.0	71.00	HORIZONTAL
142.745491	26.40	-20.4	43.5	17.1	Q P	100.0	281.00	HORIZONTAL
199.118236	31.10	-19.7	43.5	12.4	Q P	100.0	40.00	HORIZONTAL
232.164329	26.60	-17.8	46.0	19.4	Q P	100.0	71.00	HORIZONTAL
889.198397	36.30	-4.1	46.0	9.7	Q P	100.0	10.00	HORIZONTAL

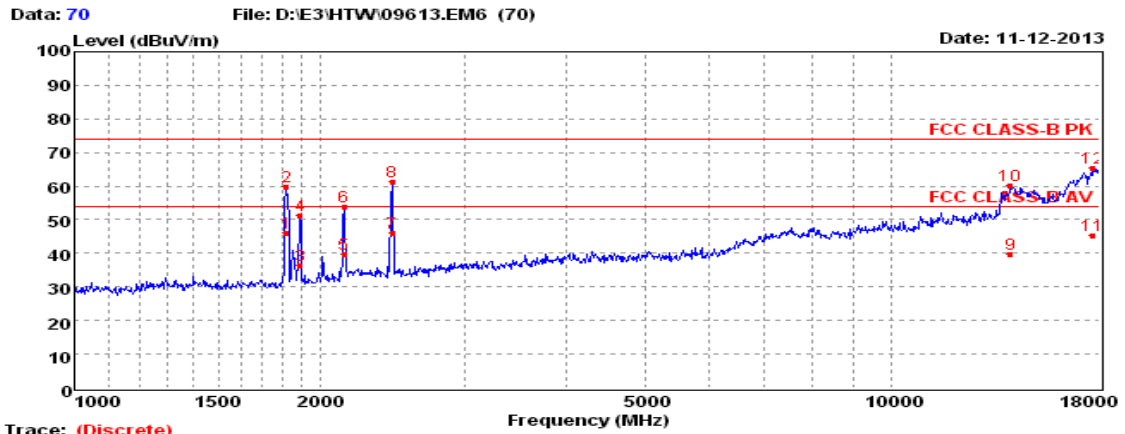
SWEEP TABLE: "test (30M-1G)"

Short Description: Field Strength

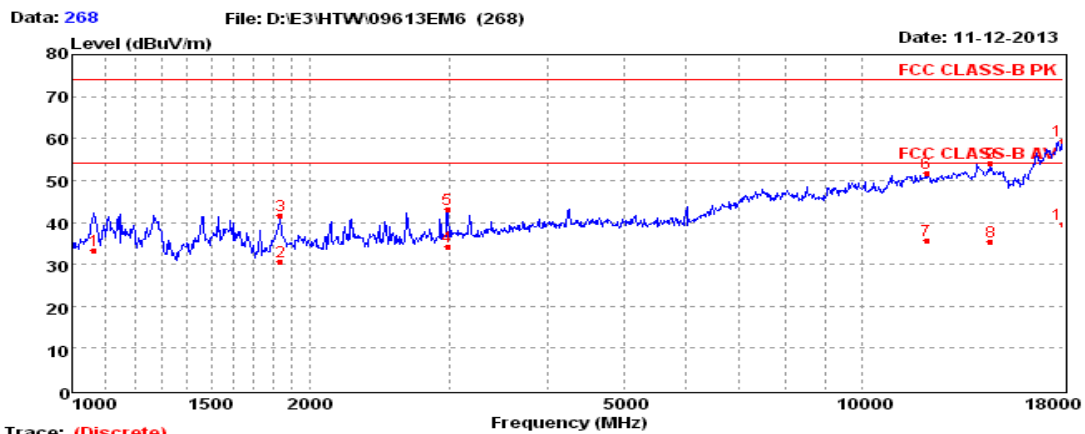
***MEASUREMENT RESULT: "HTW11234120_fin"***

11/23/2013 1:03PM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
43.607214	25.50	-17.2	40.0	14.5	Q P	100.0	345.00	VERTICAL
119.418838	40.20	-17.8	43.5	3.3	Q P	100.0	83.00	VERTICAL
133.026052	33.90	-19.3	43.5	9.6	Q P	100.0	99.00	VERTICAL
142.745491	34.50	-20.4	43.5	9.0	Q P	100.0	73.00	VERTICAL
199.118236	30.30	-19.7	43.5	13.2	Q P	100.0	68.00	VERTICAL
889.198397	32.20	-4.1	46.0	13.8	Q P	100.0	227.00	VERTICAL



Mark	Frequency MHz	Level dBm	Factor dB	Reading dBm	Limit dBm	Margin dB	Polarization	Det.
1	1819.04	46.02	-8.21	54.23	54.00	7.98	HORIZONTAL	Average
2	1819.04	59.85	-8.21	68.06	74.00	14.15	HORIZONTAL	Peak
3	1888.69	36.26	-7.87	44.13	54.00	17.74	HORIZONTAL	Average
4	1888.69	51.24	-7.87	59.11	74.00	22.76	HORIZONTAL	Peak
5	2138.64	39.66	-5.58	45.24	54.00	14.34	HORIZONTAL	Average
6	2138.64	53.98	-5.58	59.56	74.00	20.02	HORIZONTAL	Peak
7	2449.82	45.98	-5.26	51.24	54.00	8.02	HORIZONTAL	Average
8	2449.82	61.24	-5.26	66.50	74.00	12.76	HORIZONTAL	Peak
9	13997.93	39.83	19.71	20.12	54.00	14.17	HORIZONTAL	Average
10	13997.93	60.14	19.71	40.43	74.00	13.86	HORIZONTAL	Peak
11	17690.53	45.27	24.25	21.02	54.00	8.73	HORIZONTAL	Average
12	17690.53	65.33	24.25	41.08	74.00	8.67	HORIZONTAL	Peak



Mark	Frequency MHz	Level dBuV/m	Factor dB	Reading dBuV/m	Limit dBuV/m	Margin dB	Polarization	Det.
1	1065.65	33.42	-9.83	43.25	54.00	20.58	VERTICAL	Average
2	1834.88	30.53	-8.13	38.66	54.00	23.47	VERTICAL	Average
3	1834.88	41.74	-8.13	49.87	74.00	32.26	VERTICAL	Peak
4	2990.53	34.22	-3.34	37.56	54.00	19.78	VERTICAL	Average
5	2990.53	43.04	-3.34	46.38	74.00	30.96	VERTICAL	Peak
6	12079.39	51.75	17.08	34.67	74.00	22.25	VERTICAL	Peak
7	12079.39	35.65	17.08	18.57	54.00	18.35	VERTICAL	Average
8	14575.97	35.52	19.19	16.33	54.00	18.48	VERTICAL	Average
9	14575.97	54.04	19.19	34.85	74.00	19.96	VERTICAL	Peak
10	18000.00	39.58	26.28	13.30	54.00	14.42	VERTICAL	Average
11	18000.00	59.38	26.28	33.10	74.00	14.62	VERTICAL	Peak

5. Test Setup Photos of the EUT

Conducted Emission (AC Mains)



Radiated Emission (30MHz-1GHz)



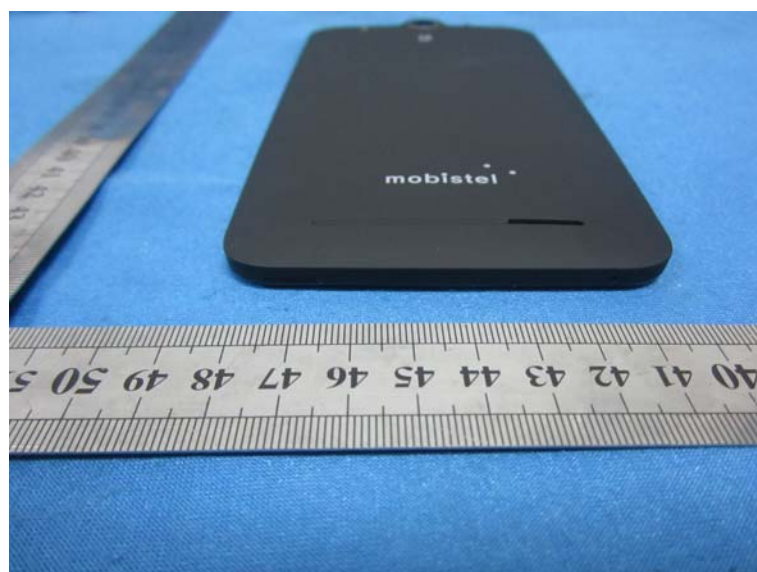
Radiated Emission (1GHz-6GHz)



6. External and Internal Photos of the EUT

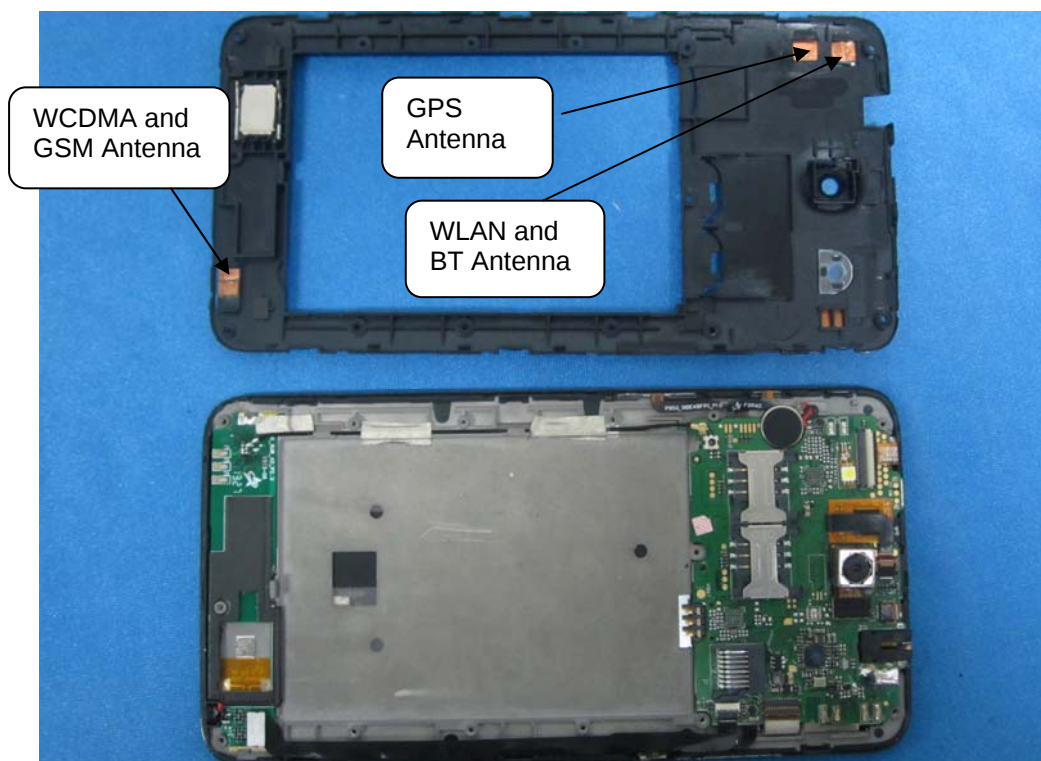
External photos of the EUT

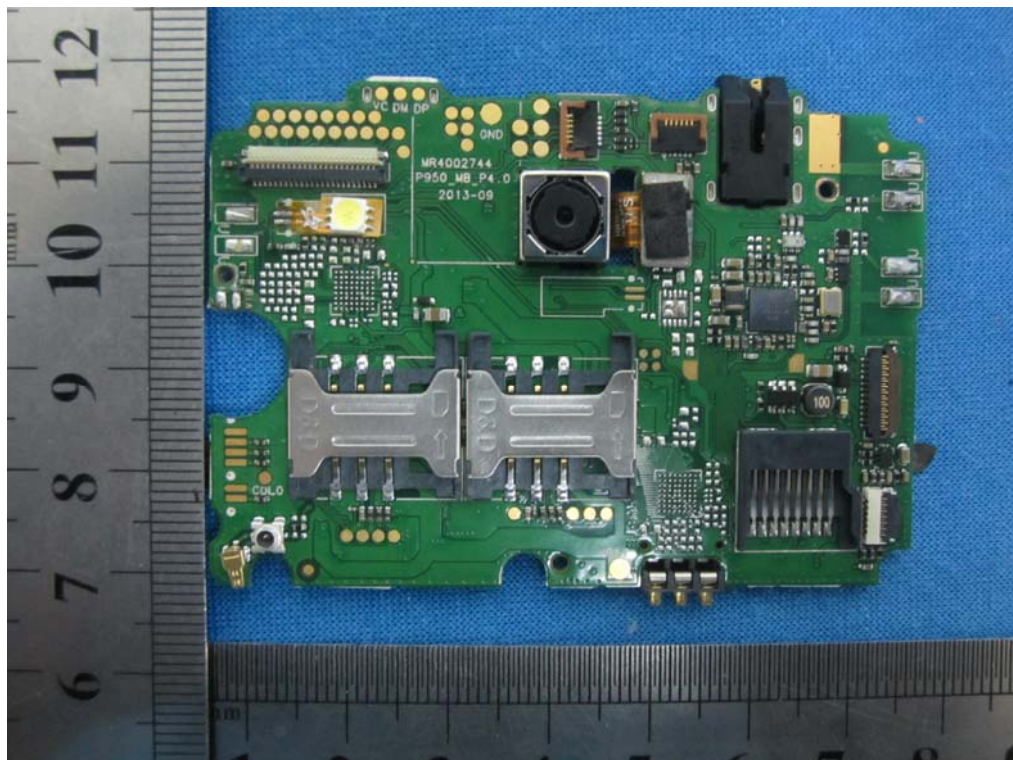


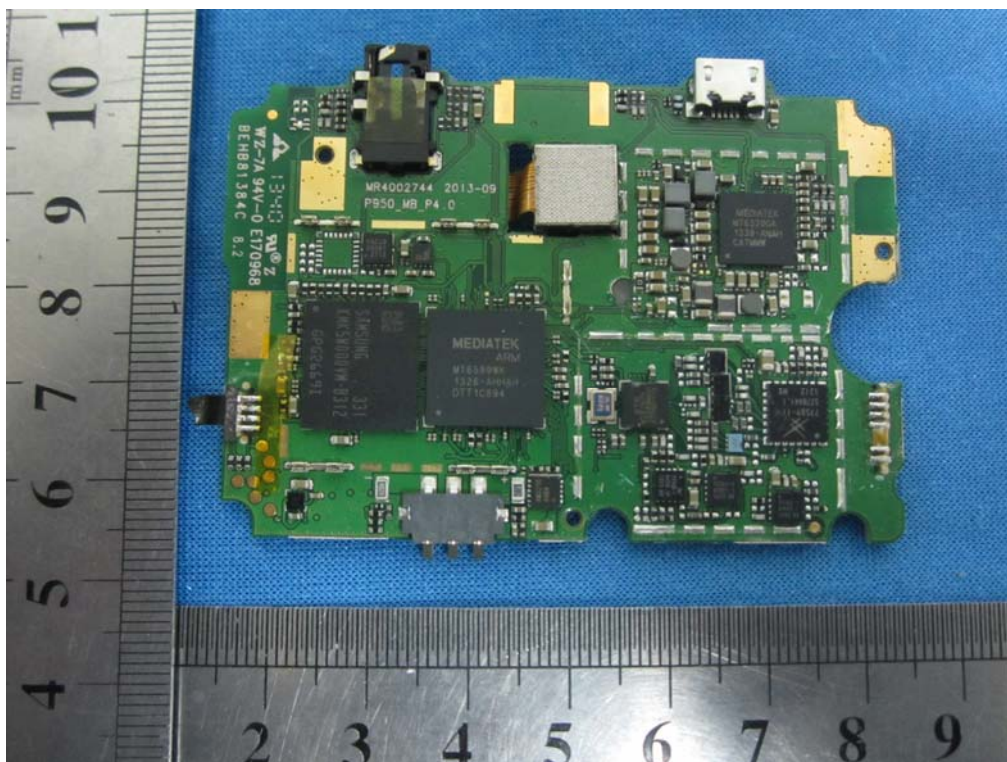
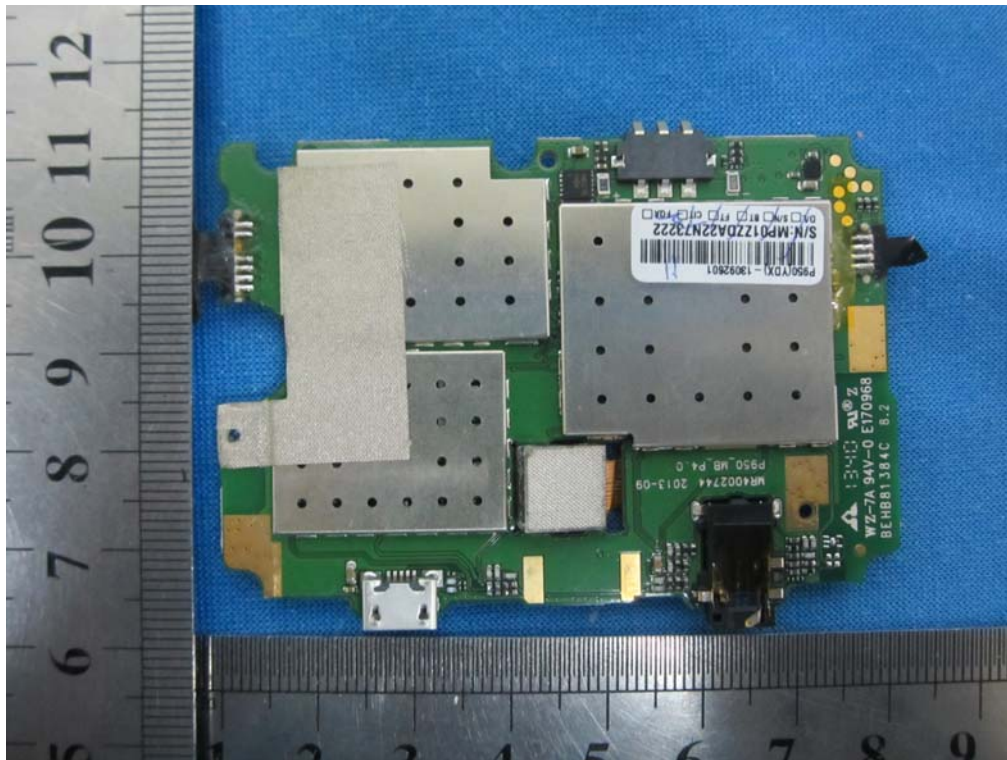


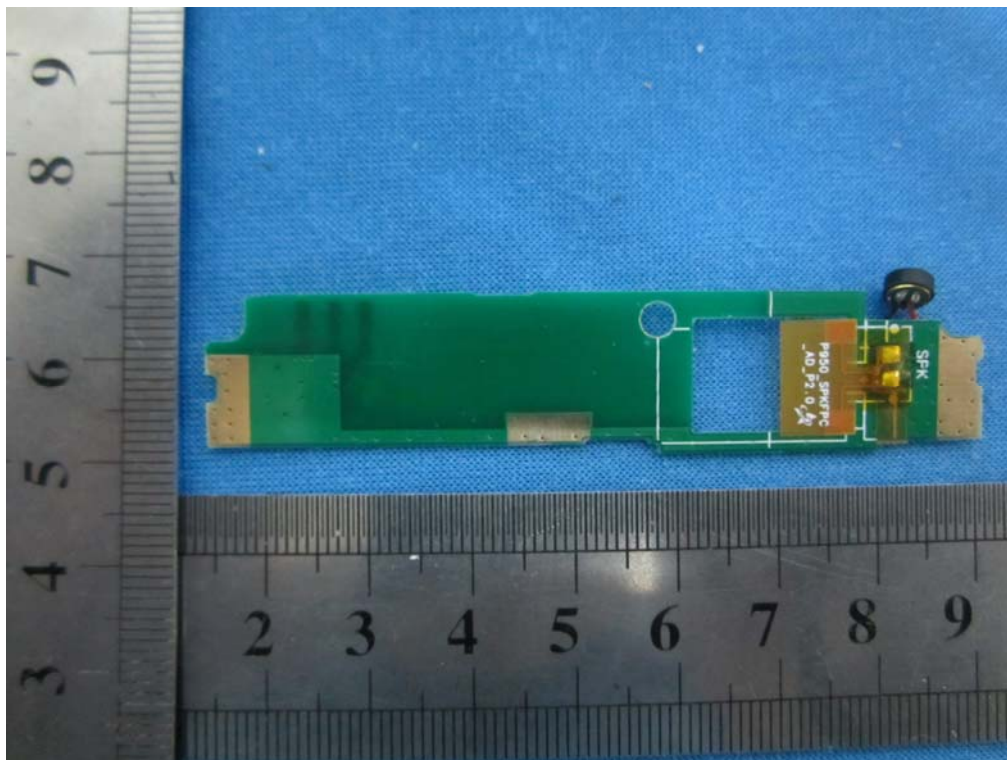
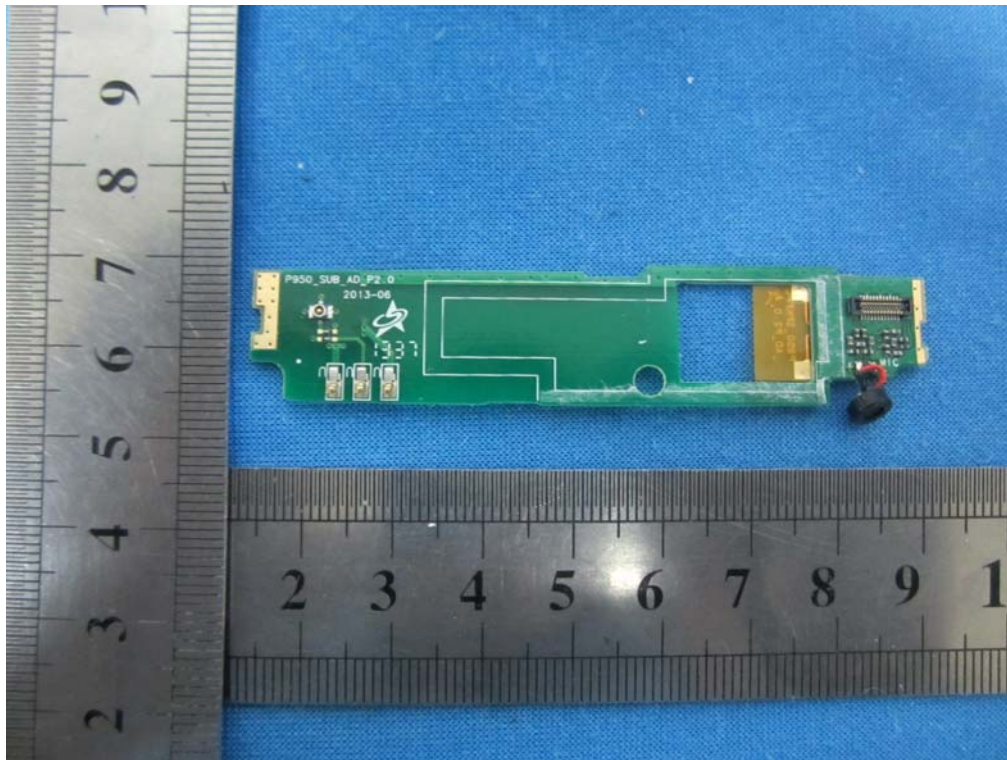


Internal photos of the EUT









.....End of Report.....