FCC RF TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.

FOR

smart phone

ISSUED TO
Shenzhen Huadoo Bright Group Limited

Room 13E, jinsong Buiding, Tai ran 4th Rood, chegong miao, Futian Distrct, Shenzhen

Prepared by: Zhang Yanqing
Zhang Yanqing
(Reporting Specialist)
Date Dec 31, 2014

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)
Date Dec 31, 2014

Report No.:	BL-SZ14C0012-605
EUT Type:	smart phone
Model Name:	Huadoo V4
Brand Name:	Huadoo
Test Standard:	47 CFR Part 15 Subpart C
FCC ID:	2ACXS-V4
Test conclusion:	PASS
Test Date:	Nov 25 2014 ~ Dec 28, 2014
Date of Issue:	Dec 31, 2014

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Revision History

Version	Issue Date	Revisions
Rev. 01	Dec 31, 2014	Initial Issue

TABLE OF CONTENTS

1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6683 3402
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625. The laboratory has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005. The accreditation certificate number is TL-588. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Announce

(1) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.

(2) The test report is invalid if there is any evidence and/or falsification.

(3) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.

(4) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.

(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant

Applicant	Shenzhen Huadoo Bright Group Limited
Address	Room 13E, jinsong Buiding, Tai ran 4th Rood, chegong miao, Futian Distrct, Shenzhen

2.2 Manufacturer

Manufacturer	Shenzhen Huadoo Bright Group Limited
Address	Room 13E, jinsong Buiding, Tai ran 4th Rood, chegong miao, Futian Distrct, Shenzhen

2.3 General Description for Equipment under Test (EUT)

EUT Type	smart phone
Model Name	Huadoo V4
Hardware Version	MOLY.WR8.W1315.MD.MG.MP.V39
Software Version	V4_overseas_V5_20141105
Network and Wireless connectivity	2G Network GSM 850/900/1800/1900, GPRS, EDEG 3G Network WCDMA Band 1/Band 2/Band 5
About the Product	The equipment is smart phone, intended for used with information technology equipment, Only NFC was tested in this report.

2.4 Technical Information

Modulation Type	ASK
Frequency Range	13.56MHz
Receiver Categorization	3
Number of channel	1
Tested Channel	1
Antenna Type	PIFA Antenna

Note: The above EUT information in section 2.3 and 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No	V4
	Serial No	N/A
	Capacitance	3600mAh
	Rated Voltage	3.7V
	Extreme Voltage	Low: 3.3V / High:4.2V
Ancillary Equipment 2	Charger	
	Brand Name	N/A
	Model No	HJ-0501000
	Serial No	N/A
	Rated Input	~ 100-240V, 0.15A, 50/60Hz
	Rated Output	⎓ 5V, 1000mA
Ancillary Equipment 3	Earphone	
	Length	1.0m
Ancillary Equipment 4	USB Data Cable	
	Length	1.0m

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C (10-1-13 Edition)	Intentional Radiators
3	ANSI C63.4-2014	American National Standard for Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	PASS Note 1
2	Emissions Bandwidth	2.1049	ANNEX A.1	PASS
3	Field Strength of Fundamental Emissions	15.225(a)	ANNEX A.2	PASS
4	Radiated Emissions	15.225(d) 15.209	ANNEX A.3	PASS
5	Frequency Stability	15.225(e)	ANNEX A.4	PASS
6	Conducted Emission	15.207	ANNEX A.5	PASS
Note 1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.				

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity (%)	45 - 55	
Atmospheric Pressure (kPa)	100 - 102	
Temperature	NT (Normal Temperature)	+22℃ to +25℃
Working Voltage of the EUT	NV (Normal Voltage)	3.7 V

4.2 Test Equipment List

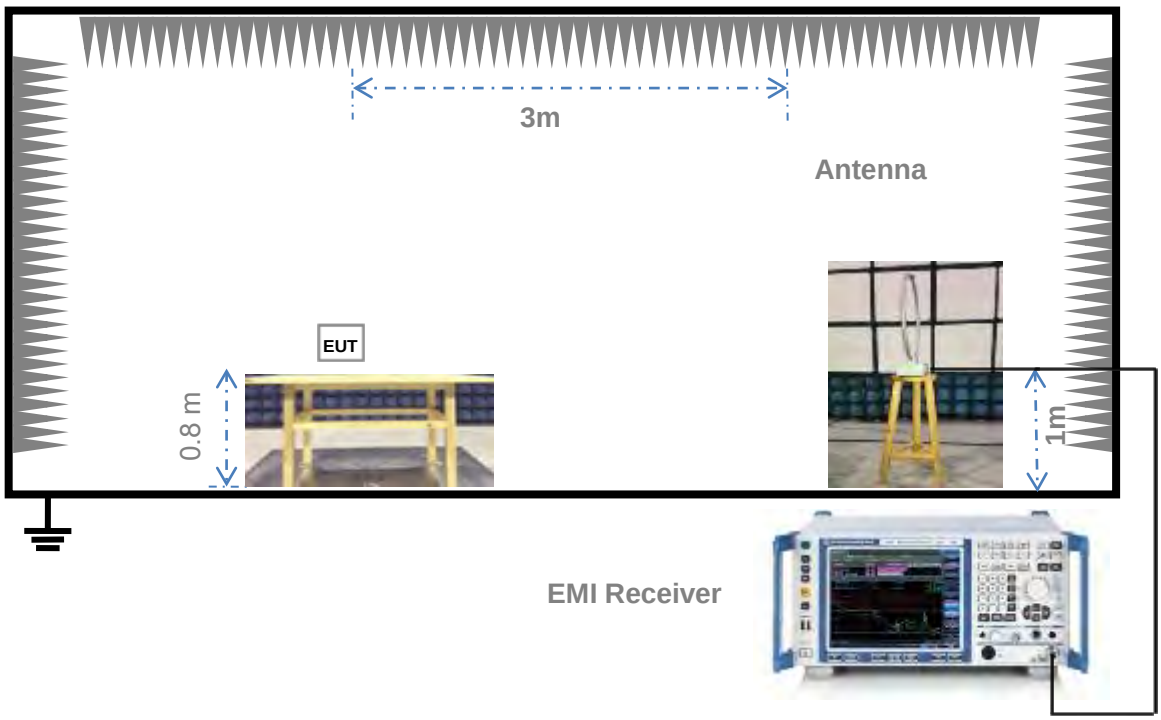
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	AGILENT	E4440A	MY45304434	2014.07.07	2015.07.06
Spectrum Analyzer	ROHDE&SCHWARZ	FSL3	103640/003	2014.07.07	2015.07.06
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2014.07.07	2015.07.06
Power Splitter	KMW	DCPD-LDC	1305003215	2014.07.07	2015.07.06
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2014.07.07	2015.07.06
Attenuator (20dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2014.07.07	2015.07.06
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2014.07.07	2015.07.06
Test Antenna-Loop(9kHz-30MHz)	SCHWARZBECK	FMZB 1519	1519-037	2013.07.03	2015.07.02
Test Antenna-Bi-Log(30MHz-3GHz)	SCHWARZBECK	VULB 9163	9163-624	2013.07.02	2015.07.01
Test Antenna-Horn(1-18GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2013.07.02	2015.07.01
Test Antenna-Horn(15-26.5GHz)	SCHWARZBECK	BBHA 9170	9170-305	2013.07.02	2015.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2014.10.07	2015.10.06

4.3 Test Configurations

Test Configurations (TC) NO.	Description	
	Signal Description	Operating Frequency
Transmitter		
TC01	ASK	13.56MHz

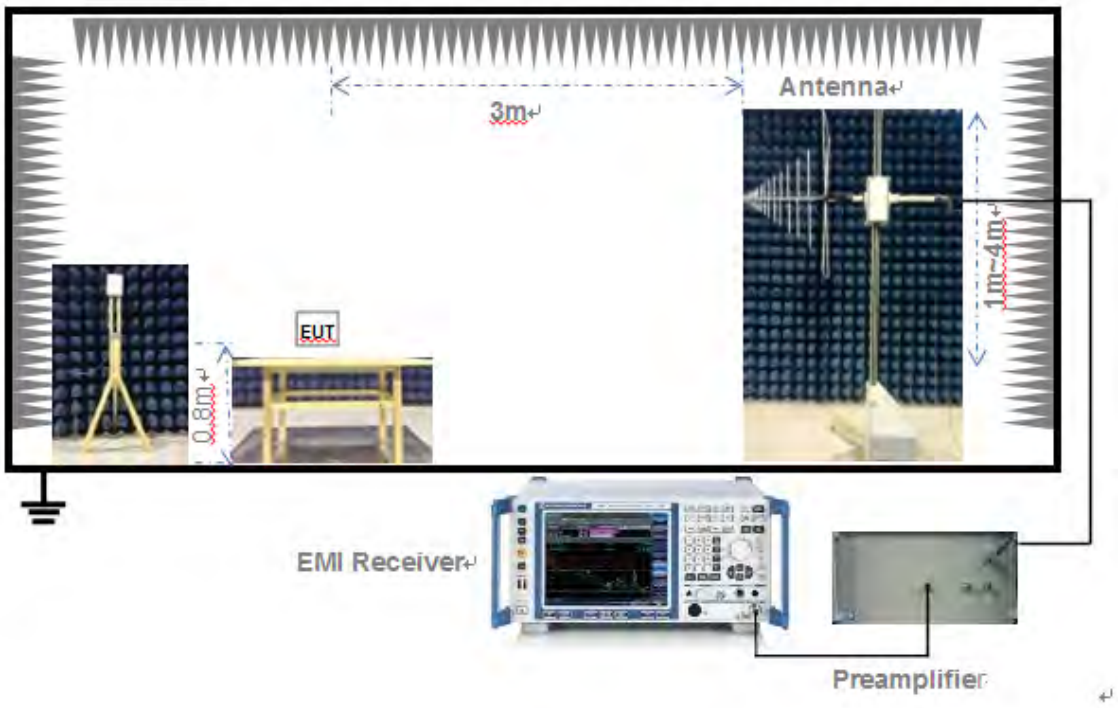
4.4 Description of Test Setup

4.4.1 For Radiated Test (Below 30MHz)



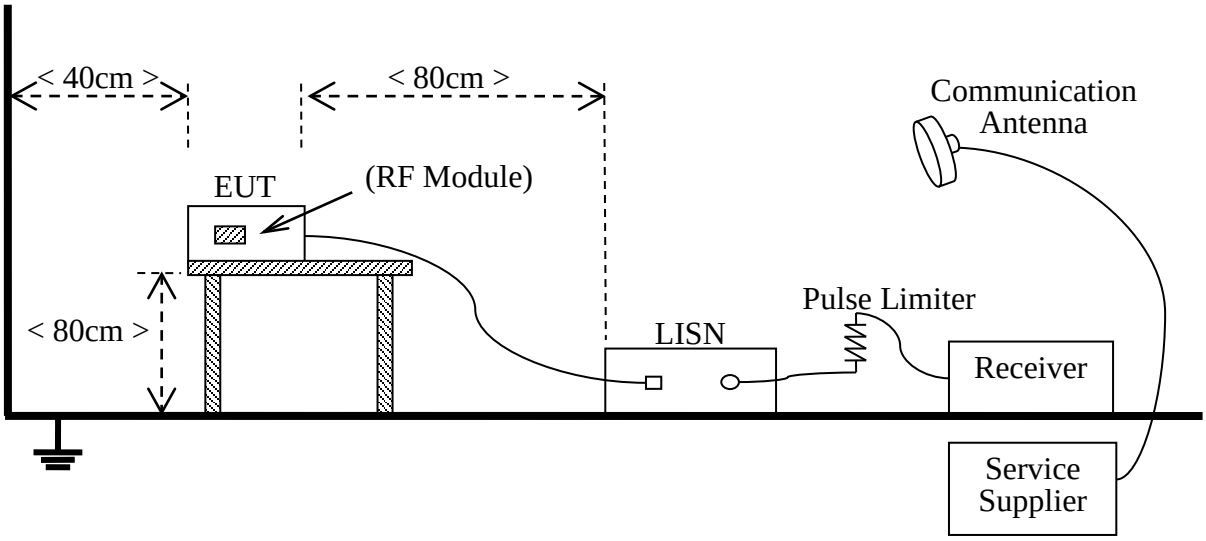
(Diagram 1)

4.4.2 For Radiated Test (30MHz-1GHz)



(Diagram 2)

4.4.3 For AC Power Supply Port Test



(Diagram 3)

4.5 Test Conditions

Test Case	Test Conditions		
	Test Env.	Test Setup Note 1	Test Configuration Note 2
Emissions Bandwidth	NTNV	Test Setup 1	TC01
Field Strength of Fundamental Emissions	NTNV	Test Setup 1	TC01
Radiated Emissions	NTNV	Test Setup 1 Test Setup 2	TC01
Frequency Stability	NTNV	Test Setup 1	TC01
Conducted Emission	NTNV	Test Setup 3	TC01

Note:
1. Please refer to section 4.4 for test setup details.
2. Please refer to section 4.3 for test setup details.

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Standard Applicable

FCC §15.203 & 15.247(b)

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is An embedded-in	An embedded-in antenna design is used.

Reference Documents	Item
Photo	

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Emission Bandwidth

5.2.1 Definition

FCC §2.1049&15.215(c)

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency.

5.2.2 Test Procedure

The 20dB bandwidth is measured with a spectrum analyzer connected via a receiver antenna placed near the EUT while the EUT is operating in transmission mode.

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth

RBW ≥ 1% of the 20 dB bandwidth

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.3 Field Strength of Fundamental Emissions and Radiated Emissions

5.3.1 Limit

FCC §15.225(a), (b), (c)

According to FCC section 15.225, for <30MHz, Radiated emissions were measured according to ANSIC63.4. The EUT was set to transmit at the highest output power. The EUT was set 10 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10KHz. (Note: During testing the receive antenna was rotated about its axis to maximize the emission from the EUT)

There was no detected Restricted bands and Radiated suprious emission below 30MHz. The 30m limit was converted to 3m Limit using square factor(x) as it was found by measurements as follows; 3 m Limit(dBuV/m) = 20log(X)+40log(30/3)= 20log(15848)+40log(30/3) = 124dBuV

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 range (MHz)	Field Strength@30m		Field Strength@3m
	μV/m	dBμV/m	dBμV/m
Below 13.110	30	29.5	69.5
13.110 ~ 13.410	106	40.5	80.5
13.410 ~ 13.553	334	50.5	90.5
13.553 ~13.567	15.848	84	124
13.567 ~ 13.710	334	50.5	90.5
13.710 ~14.010	106	40.5	80.5
Above 14.010	30	29.5	69.5

NOTE:

1. Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].
2. In the emission tables above, the tighter limit applies at the band edges.

FCC §15.225(d)

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 (μV/m)
0.009 - 0.490	2400/F(kHz)
0.490 - 1.705	24000/F(kHz)
1.705 - 30.0	30
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Note:

3. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

4. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.3.2 Test Procedure

The measurement frequency range is from 9kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented. The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

5.4 Frequency Tolerance

5.4.1 Limit

FCC §15.225(e)

The frequency tolerance of the carrier signal shall be maintained within ±0.01% of the operating frequency over a temperature variation of −20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

5.4.2 Test Procedure

1. The test is performed in a Temperature Chamber.
2. The EUT is configured as MS + DC Power Supply.

5.5 Conducted Emission

5.5.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.5.2 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

ANNEX A TEST RESULT

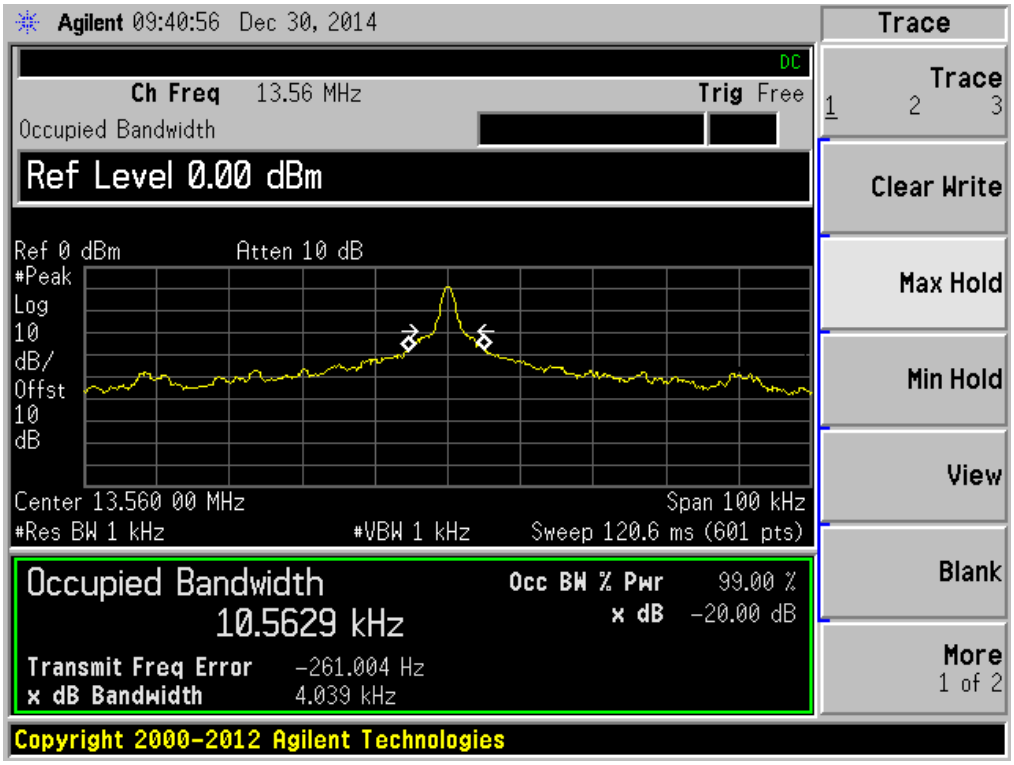
A.1 Emission Bandwidth

Test Data

Frequency (MHz)	Emission Bandwidth (kHz)
13.56	4.039

Test plots

Emission Bandwidth



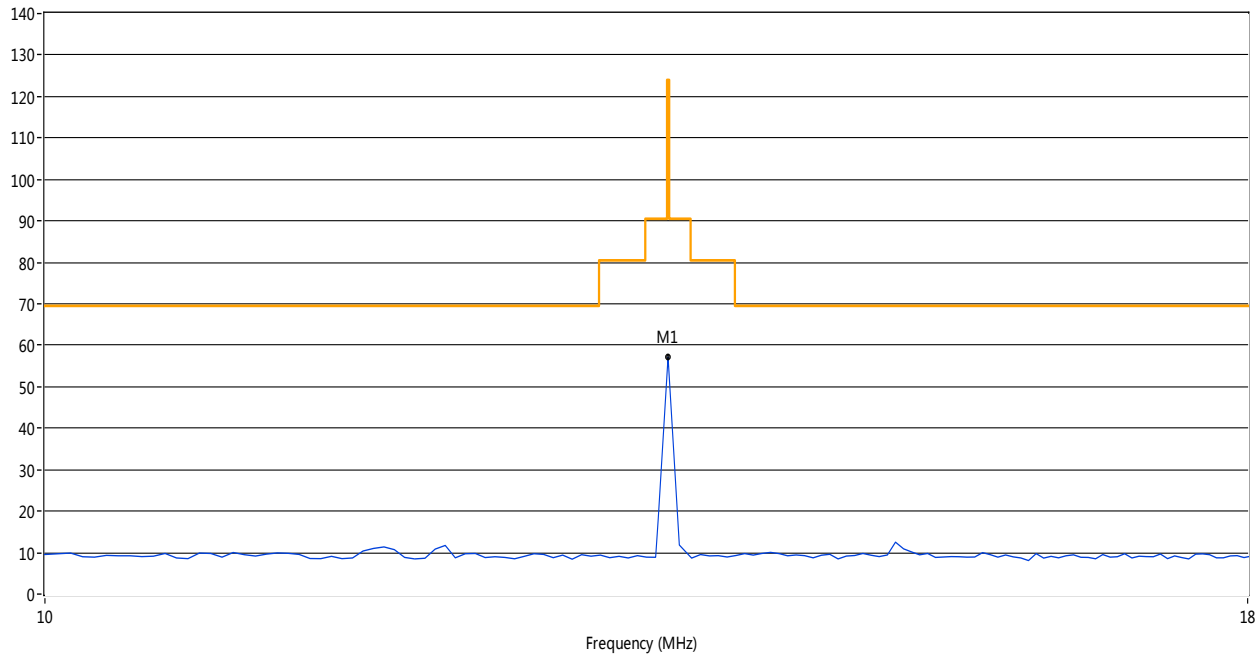
A.2 Field Strength of Fundamental Emissions

Test Data

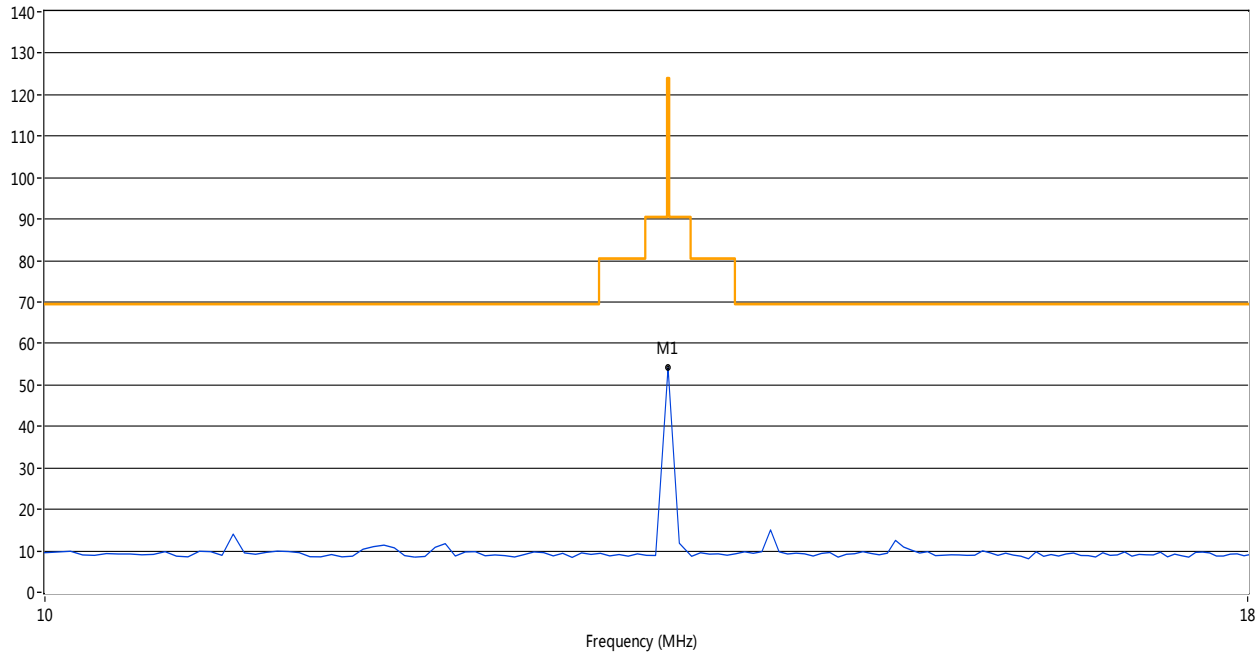
Field Strength of Fundamental Emissions Value					
Frequency (MHz)	Detector	Field Strength (dBuV/m)	Limit @3m (dBuV/m)	Antenna	Margin (dB)
13.56	PEAK	57.18	124	Vertical	66.82
13.56	PEAK	54.25	124	Horizontal	69.75

Test Plot

ANT-LOOP ANT Vertical



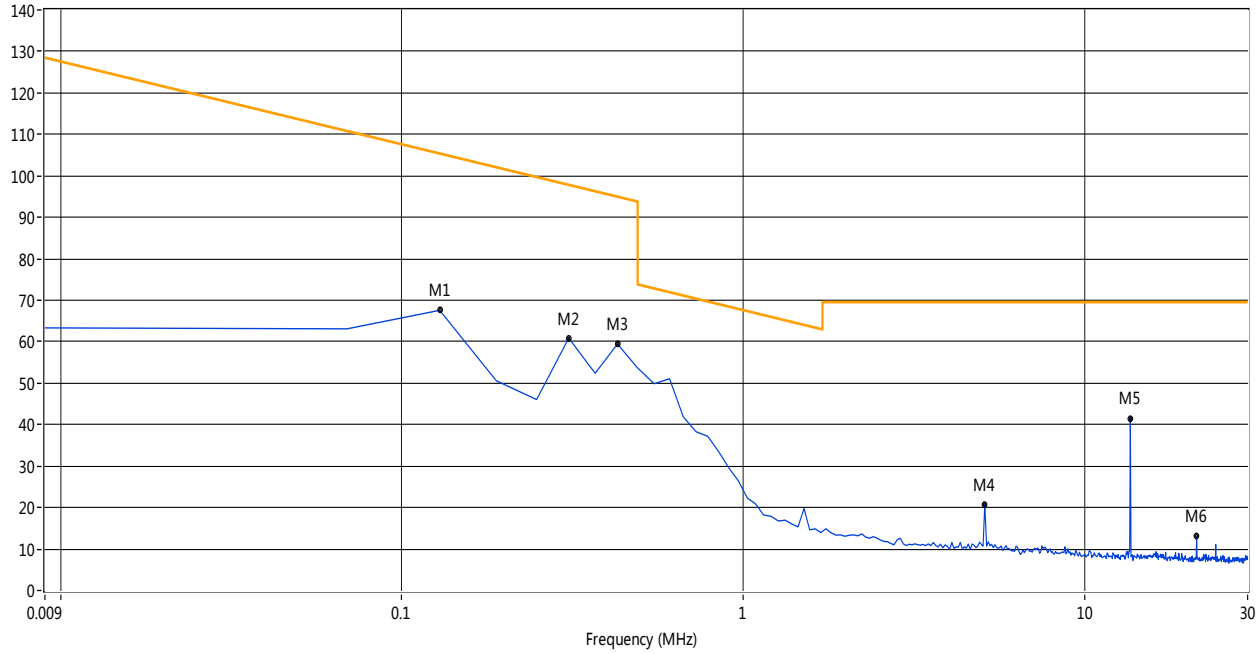
ANT-LOOP ANT Horizontal



A.3 Radiated Emissions

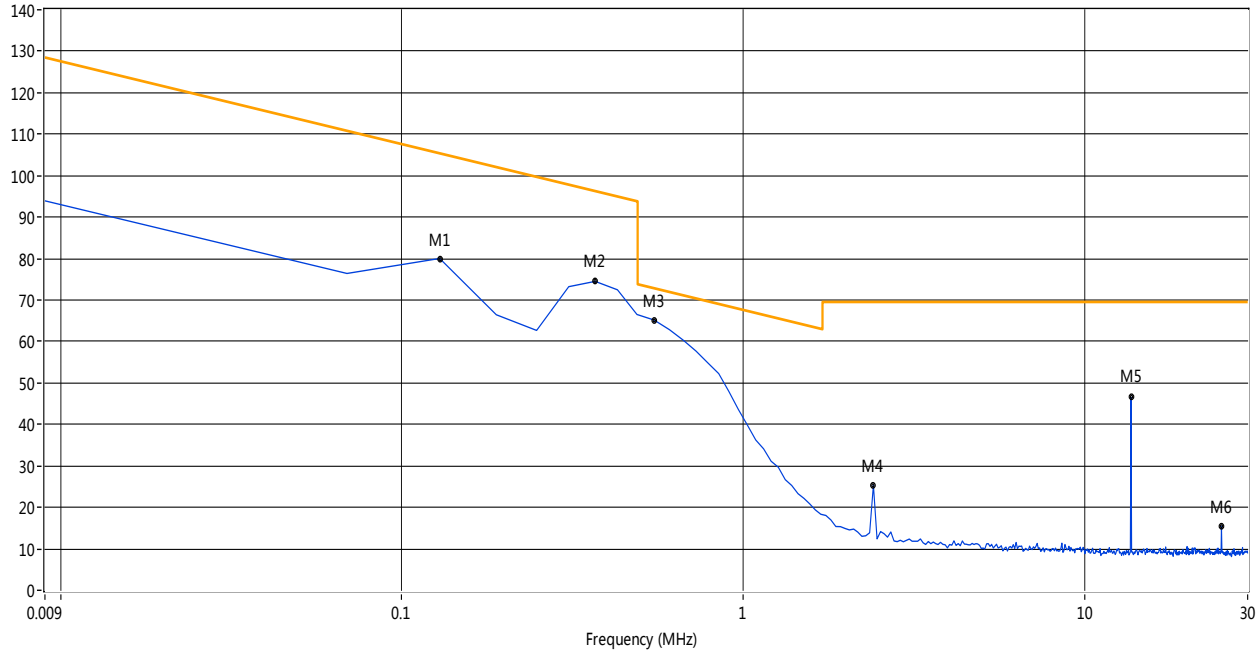
The Data and Plots (9kHz ~ 30MHz)

Below 30MHz ANT Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	0.13	67.56	17.48	119.8	52.24	Peak	291.40	100	Vertical	PASS
2	0.31	60.85	21.86	106.9	46.05	Peak	354.20	100	Vertical	PASS
3	0.43	59.45	30.16	98.3	38.85	Peak	135.90	100	Vertical	PASS
4	5.10	20.81	-34.76	69.5	48.69	Peak	330.10	100	Vertical	PASS
5	13.60	41.49	-34.07	69.5	28.01	Peak	213.60	100	Vertical	PASS
6	21.26	13.04	-33.76	69.5	56.46	Peak	92.70	100	Vertical	PASS

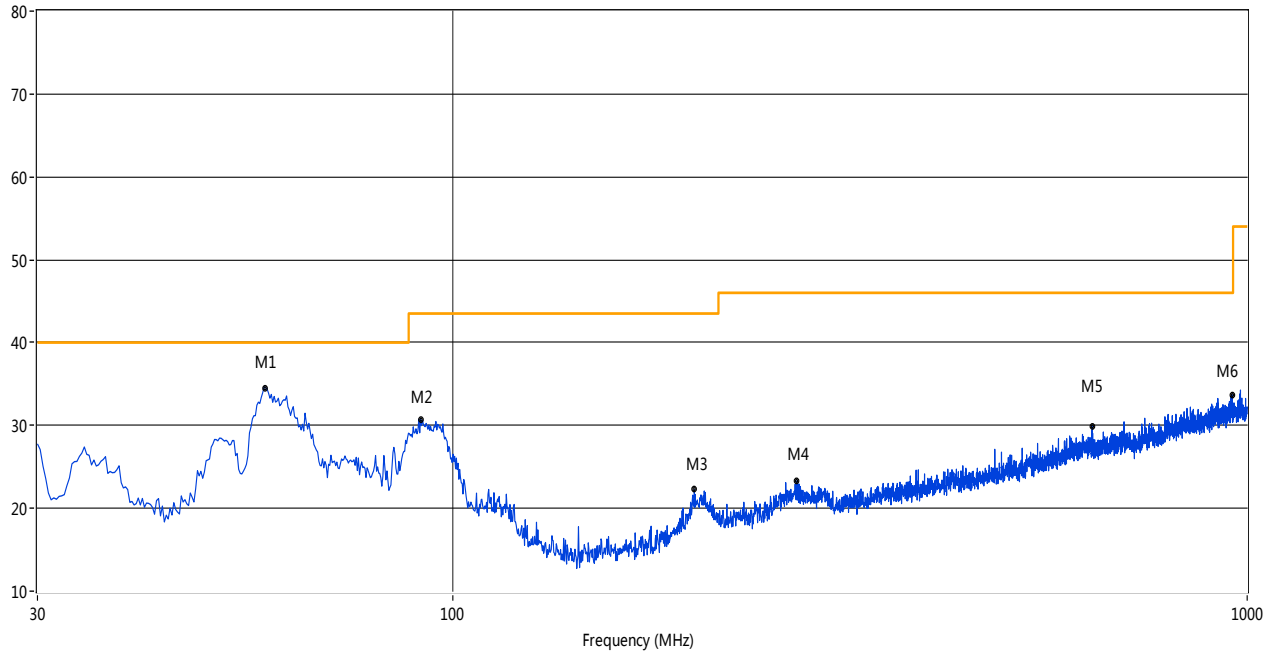
Below 30MHz ANT Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	0.13	80.02	28.56	119.8	39.78	Peak	270.30	100	Horizontal	PASS
2	0.37	74.50	37.02	102.6	28.10	Peak	326.70	100	Horizontal	PASS
3	0.55	65.18	29.19	73.3	8.12	Peak	70.70	100	Horizontal	PASS
4	2.40	25.36	-30.09	69.5	44.14	Peak	31.70	100	Horizontal	PASS
5	13.66	46.57	-34.06	69.5	22.93	Peak	243.90	100	Horizontal	PASS
6	25.15	15.35	-33.63	69.5	54.15	Peak	174.60	100	Horizontal	PASS

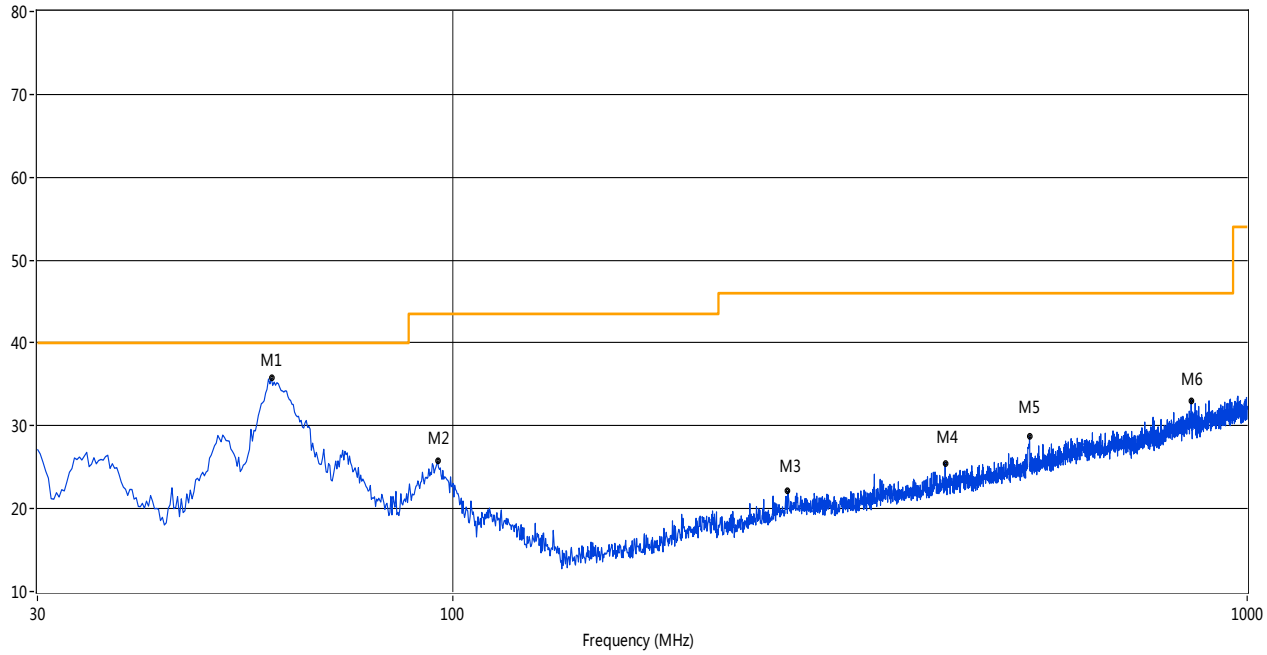
Test Data and Plots (30MHz ~ 10th Harmonic)

30MHz to 1GHz, ANT Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	58.12	34.03	-19.77	40.0	5.97	Peak	341.40	100	Vertical	PASS
2	91.09	30.76	-21.68	43.5	12.74	Peak	254.90	100	Vertical	PASS
3	201.41	22.25	-20.23	43.5	21.25	Peak	31.80	100	Vertical	PASS
4	270.99	23.31	-18.45	46.0	22.69	Peak	26.30	100	Vertical	PASS
5	638.28	29.92	-10.25	46.0	16.08	Peak	-0.60	100	Vertical	PASS
6	956.60	33.71	-5.17	46.0	12.29	Peak	65.30	100	Vertical	PASS

30MHz to 1GHz, ANT Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	59.09	35.75	-19.97	40.0	4.25	Peak	321.90	100	Horizontal	PASS
2	95.70	25.72	-20.84	43.5	17.78	Peak	321.90	100	Horizontal	PASS
3	264.20	22.09	-18.56	46.0	23.91	Peak	55.80	100	Horizontal	PASS
4	416.69	25.51	-14.72	46.0	20.49	Peak	183.40	100	Horizontal	PASS
5	532.09	28.76	-12.40	46.0	17.24		244.50	100	Horizontal	PASS
6	850.17	33.07	-6.39	46.0	12.93	Peak	133.50	100	Horizontal	PASS

A.4 Frequency Stability

OPERATING FREQUENCY: 13560000 Hz

REFERENCE VOLTAGE: 3.7 V

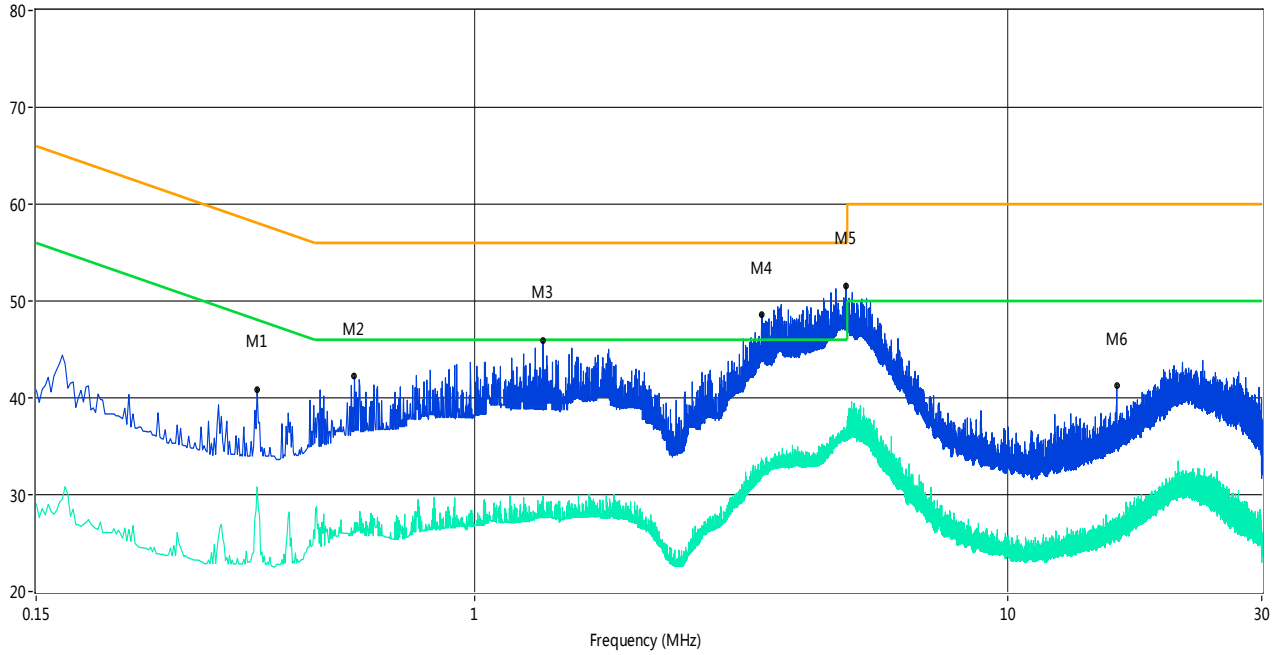
DEVIATION LIMIT: ±0.01%

VOLTAGE (%)	Test Conditions		Frequency(Hz)	Deviation(ppm)	Verdict
	Power (VDC)	Temperature (°C)			
100	3.7	+20°C(Ref)	13560684	-0.00005044	PASS
100		-20	13560698	-0.00005147	
100		-10	13560547	-0.00004034	
100		0	13560563	-0.00004152	
100		+10	13560615	-0.00004535	
100		+20	13560663	-0.00004889	
100		+25	13560458	-0.00003378	
100		+30	13560618	-0.00004558	
100		+40	13560603	-0.00004447	
100		+50	13560706	-0.00005206	
Battery End Point	3.3	+20	13560687	-0.00005066	
115	4.2	+20	13560667	-0.00004919	

A.5 Conducted Emissions

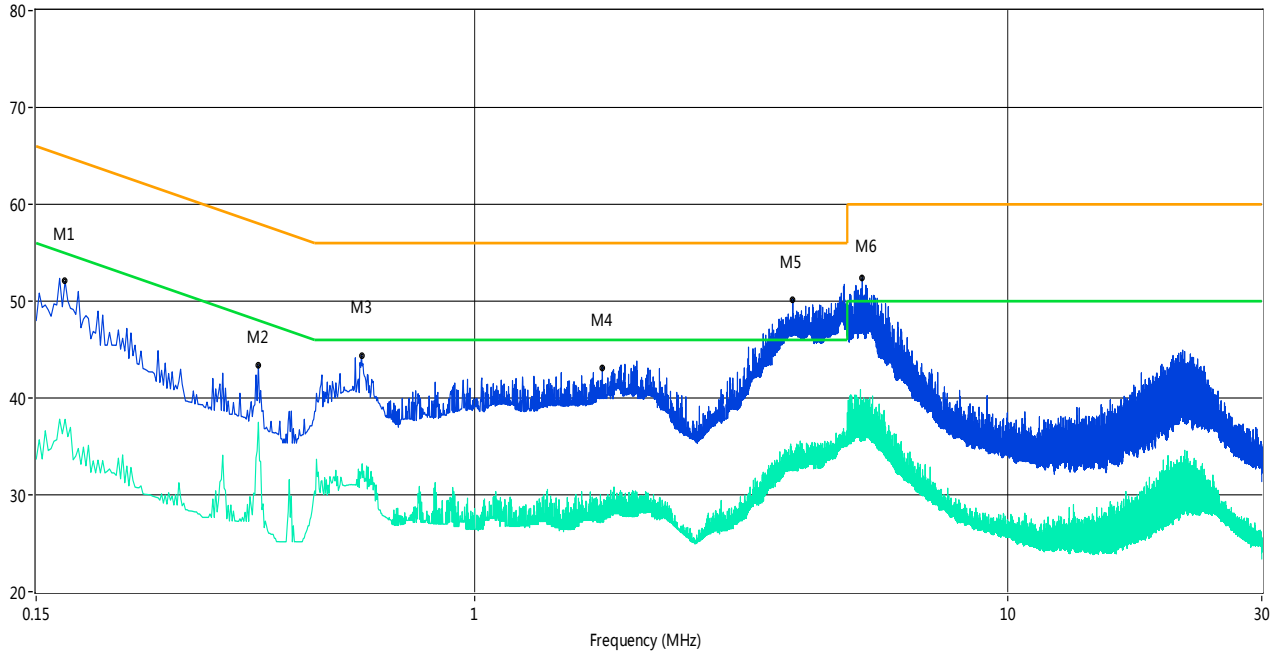
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.39	40.9	13.00	59.1	18.20	Peak	L Line	PASS
1**	0.39	30.8	13.00	49.1	18.30	AV	L Line	PASS
2	0.59	42.2	13.00	56.0	13.80	Peak	L Line	PASS
2**	0.59	27.1	13.00	46.0	18.90	AV	L Line	PASS
3	1.34	45.9	13.00	56.0	10.10	Peak	L Line	PASS
3**	1.34	29.8	13.00	46.0	16.20	AV	L Line	PASS
4	3.46	48.6	13.00	56.0	7.40	Peak	L Line	PASS
4**	3.46	33.1	13.00	46.0	12.90	AV	L Line	PASS
5	4.97	51.6	13.00	56.0	4.40	Peak	L Line	PASS
5**	4.97	36.3	13.00	46.0	9.70	AV	L Line	PASS
6	16.03	41.2	13.00	60.0	18.80	Peak	L Line	PASS
6**	16.03	25.4	13.00	50.0	24.60	AV	L Line	PASS

PHASE N

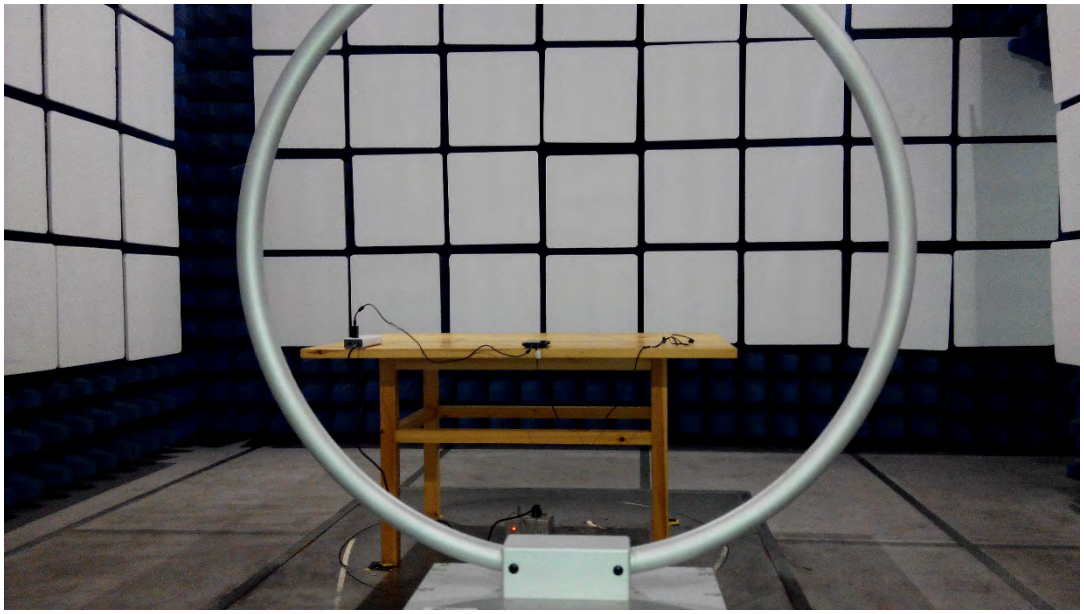


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.17	52.1	13.00	65.4	13.30	Peak	N Line	PASS
1**	0.17	37.8	13.00	55.4	17.60	AV	N Line	PASS
2	0.39	43.4	13.00	59.1	15.70	Peak	N Line	PASS
2**	0.39	37.5	13.00	49.1	11.60	AV	N Line	PASS
3	0.61	44.4	13.00	56.0	11.60	Peak	N Line	PASS
3**	0.61	32.2	13.00	46.0	13.80	AV	N Line	PASS
4	1.73	43.1	13.00	56.0	12.90	Peak	N Line	PASS
4**	1.73	28.8	13.00	46.0	17.20	AV	N Line	PASS
5	3.95	50.2	13.00	56.0	5.80	Peak	N Line	PASS
5**	3.95	33.5	13.00	46.0	12.50	AV	N Line	PASS
6	5.33	52.4	13.00	60.0	7.60	Peak	N Line	PASS
6**	5.33	35.5	13.00	50.0	14.50	AV	N Line	PASS

ANNEX B TEST SETUP PHOTOS

B.1 Conducted Emissions Test Photo

B.2 Radiated Test Photo

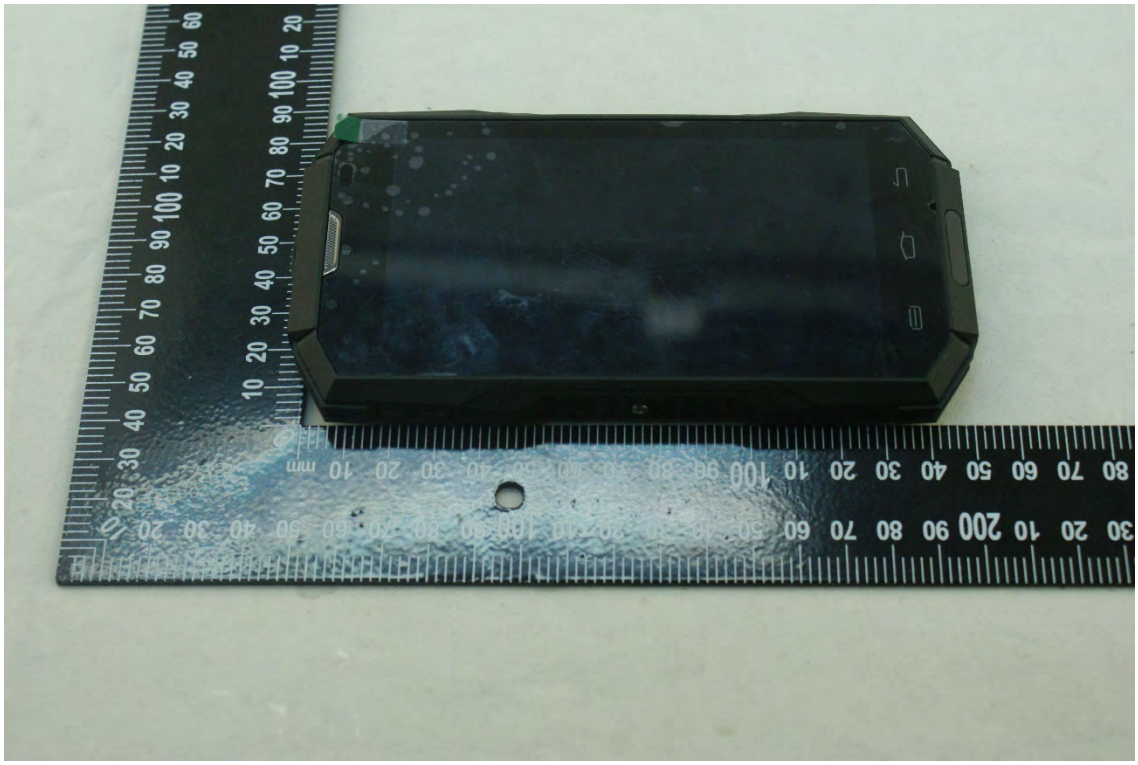


Below 30MHz

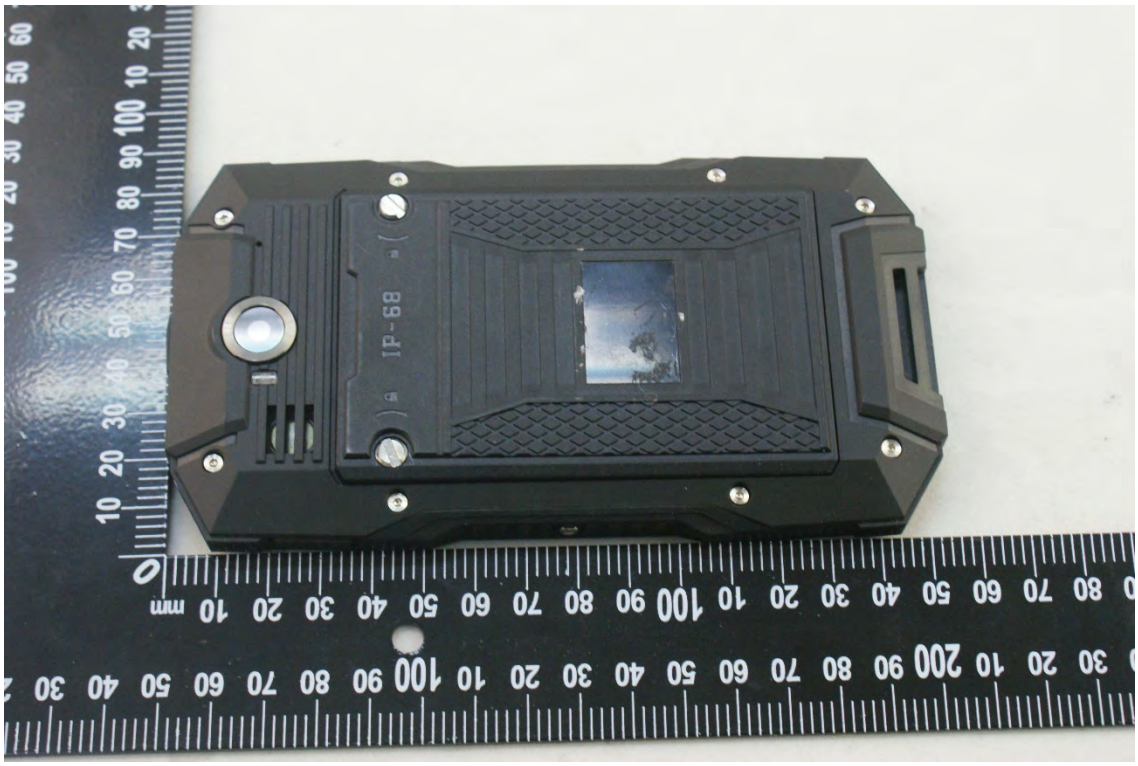
30MHz to 1GHz

ANNEX C EUT PHOTOS

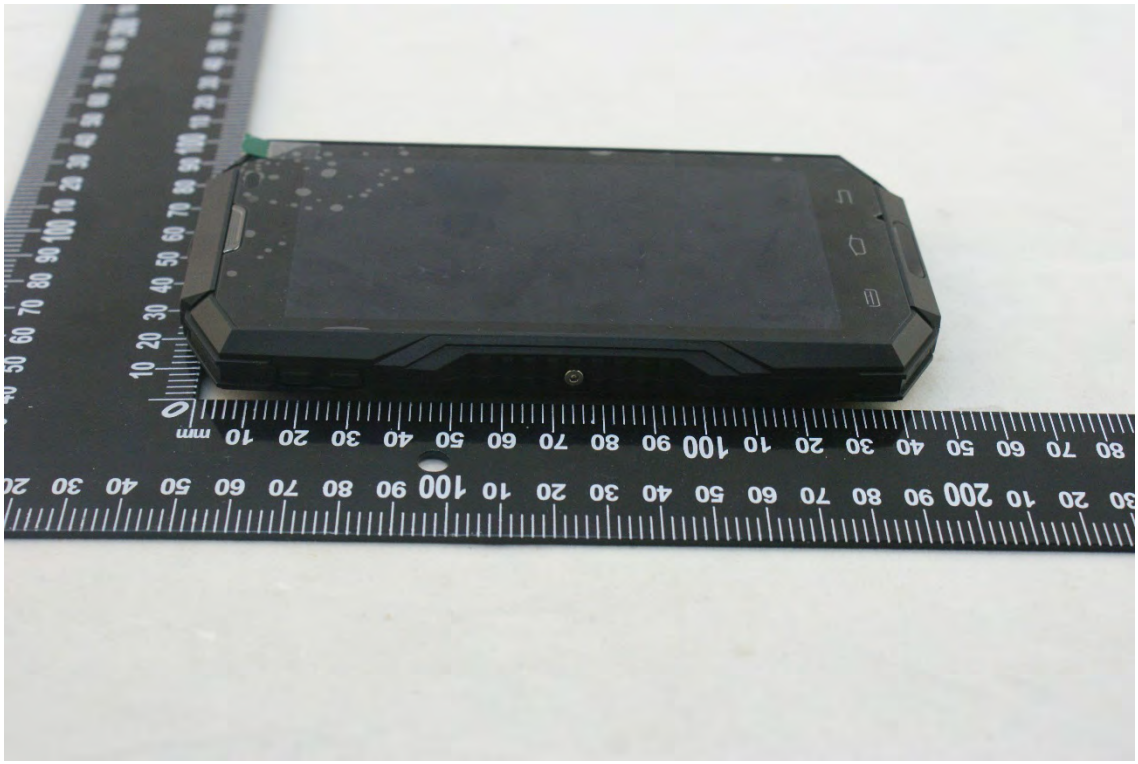
C.1 Appearance of the EUT



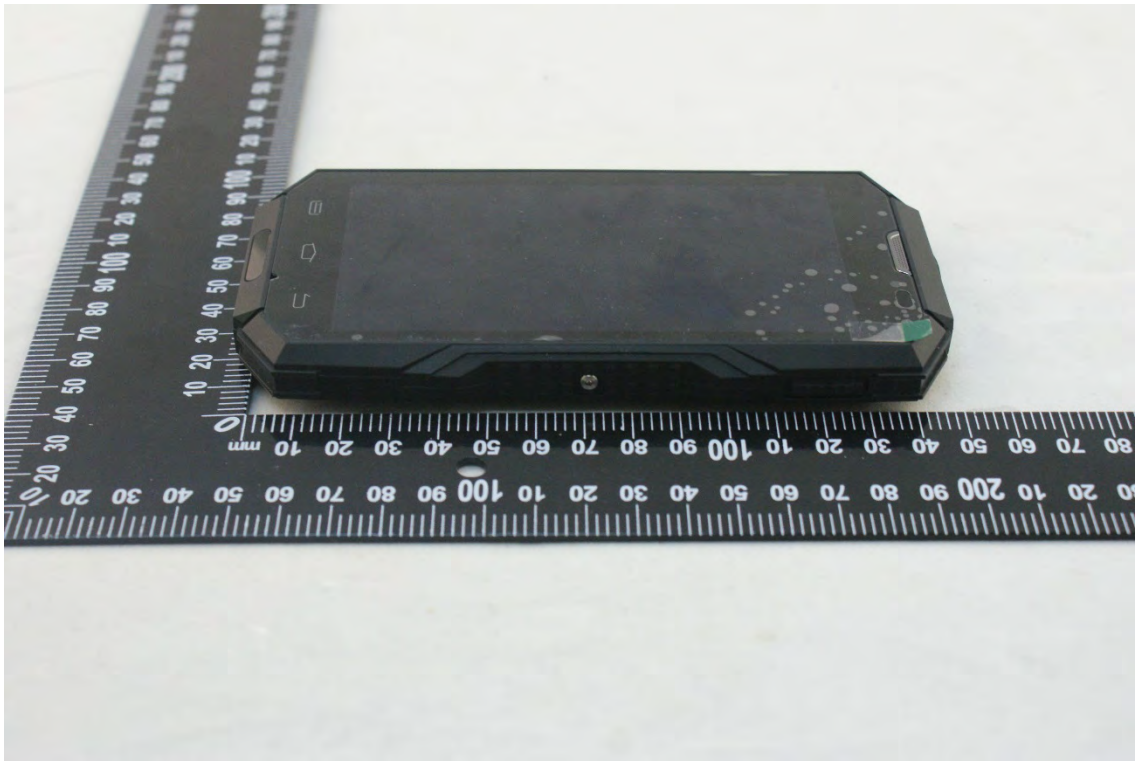
THE FRONT OF EUT



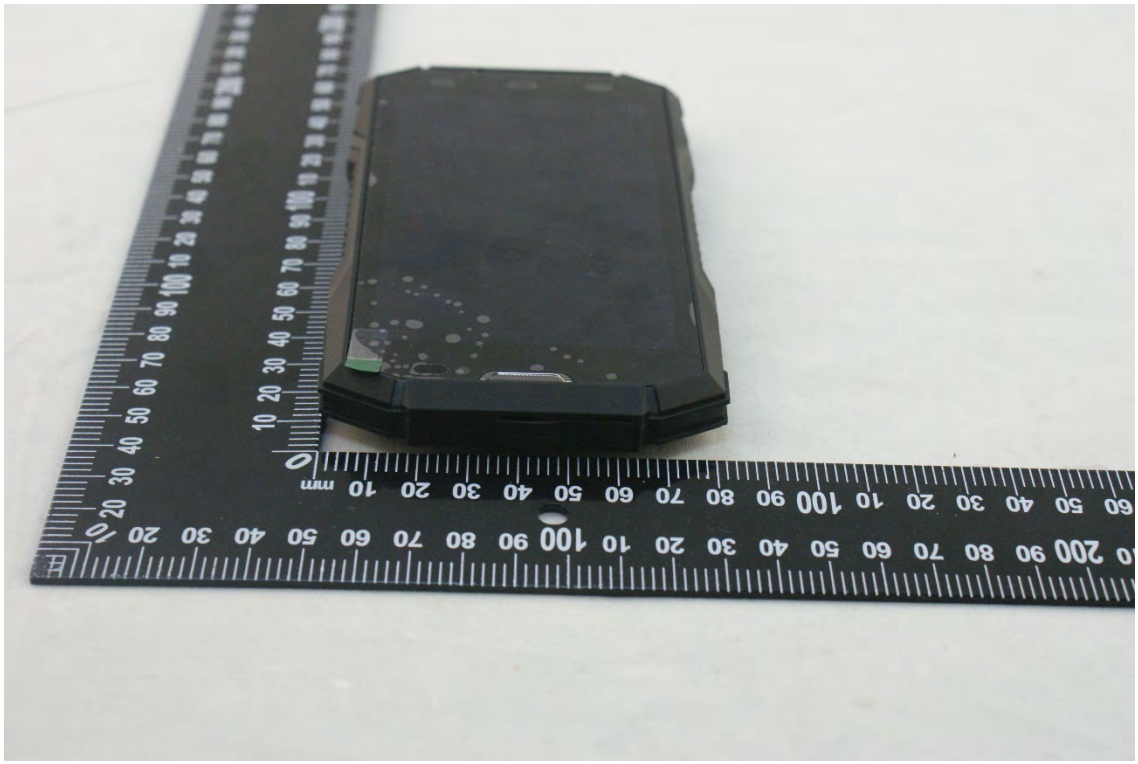
THE BACK OF EUT



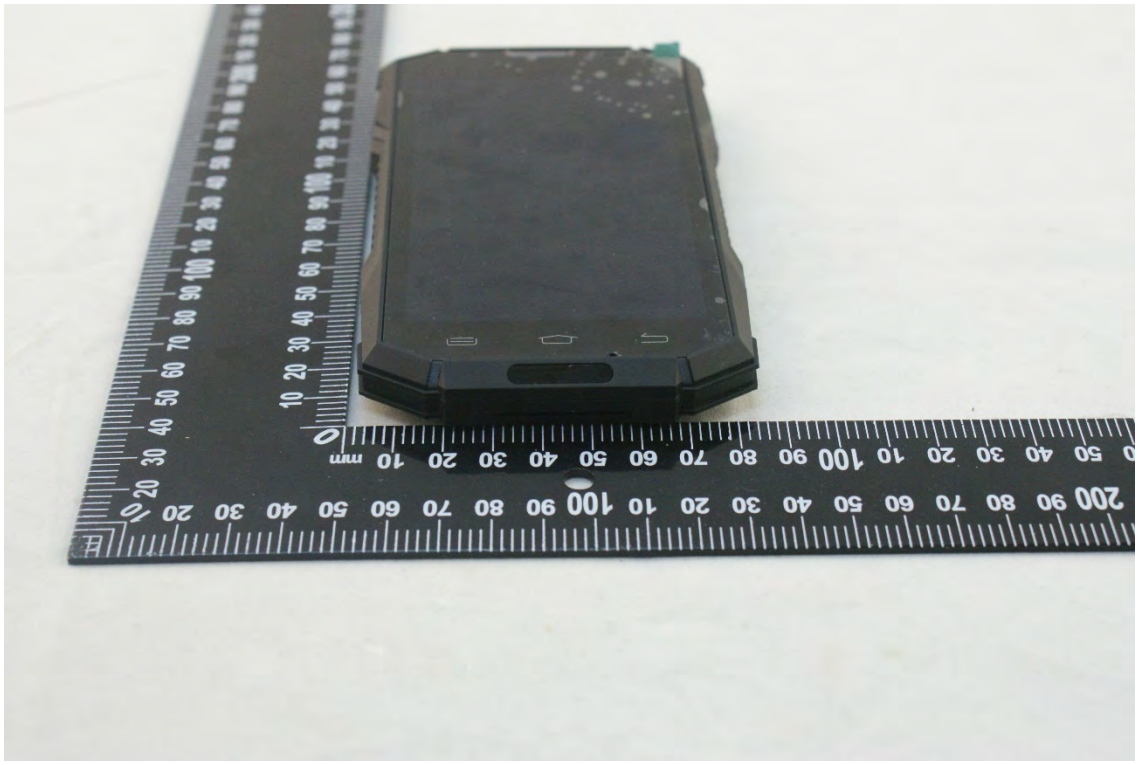
THE LEFT OF EUT



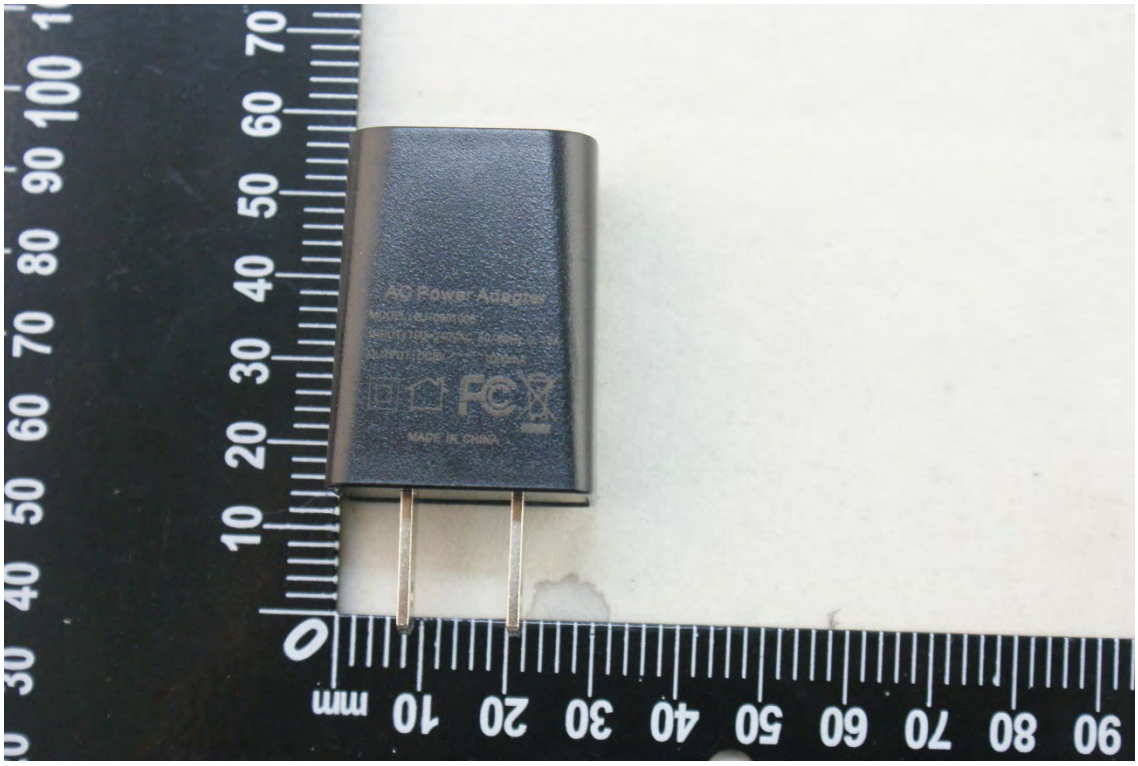
THE RIGHT OF EUT



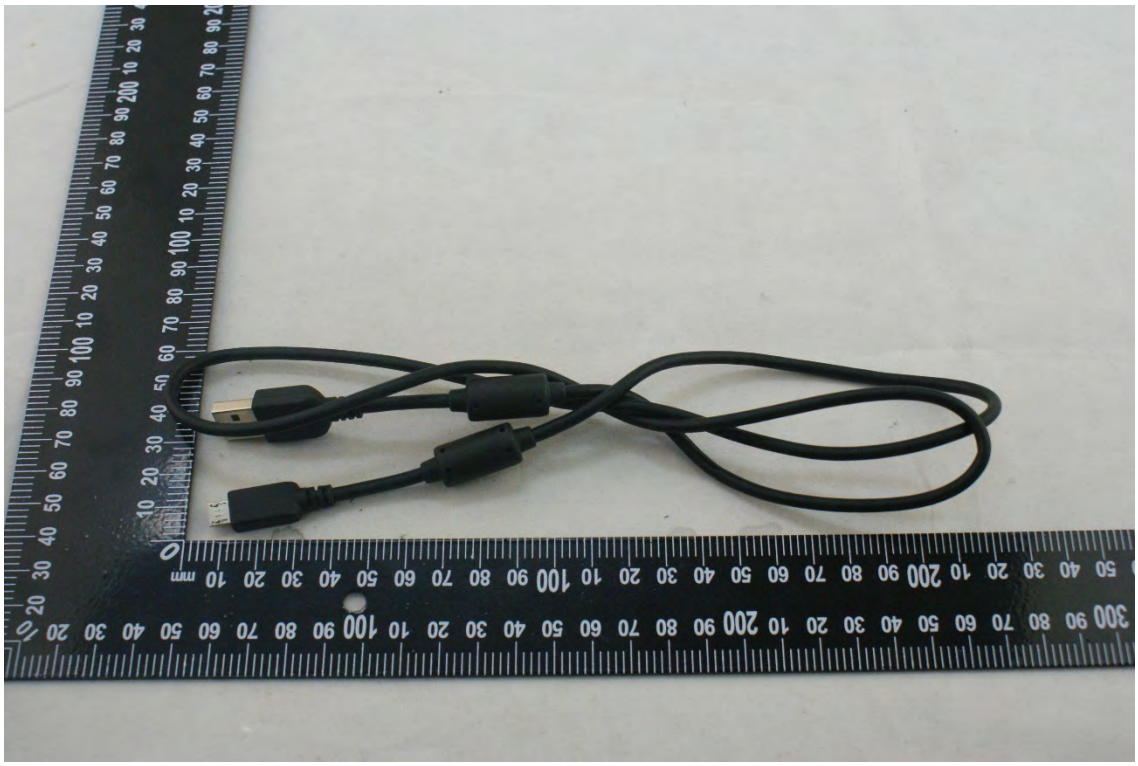
THE UP OF EUT



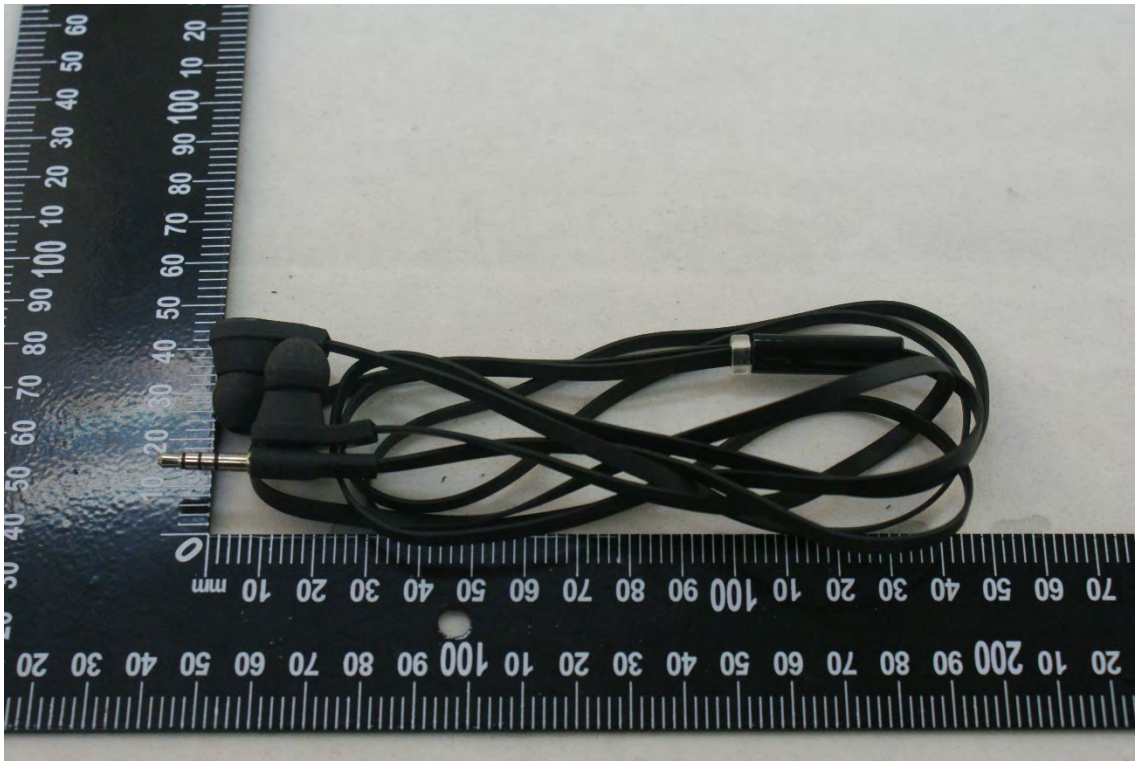
THE DOWN OF EUT



CHARGER

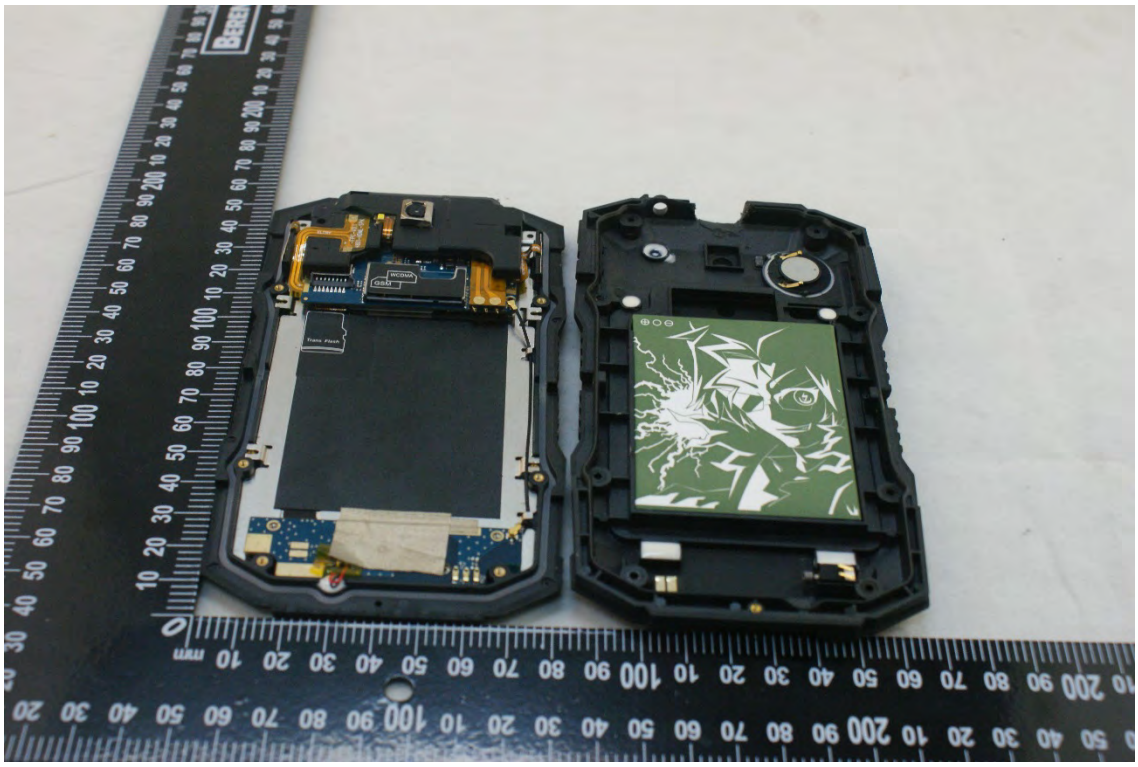


USB CABLE

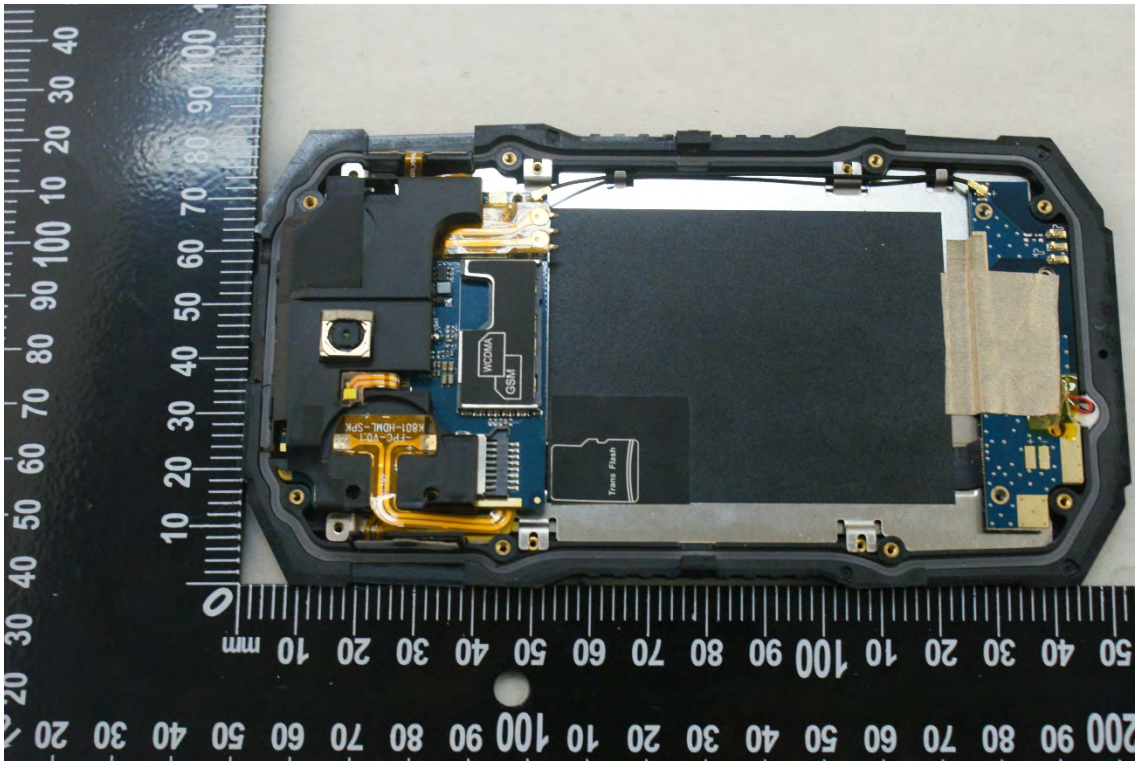


EARPHONE

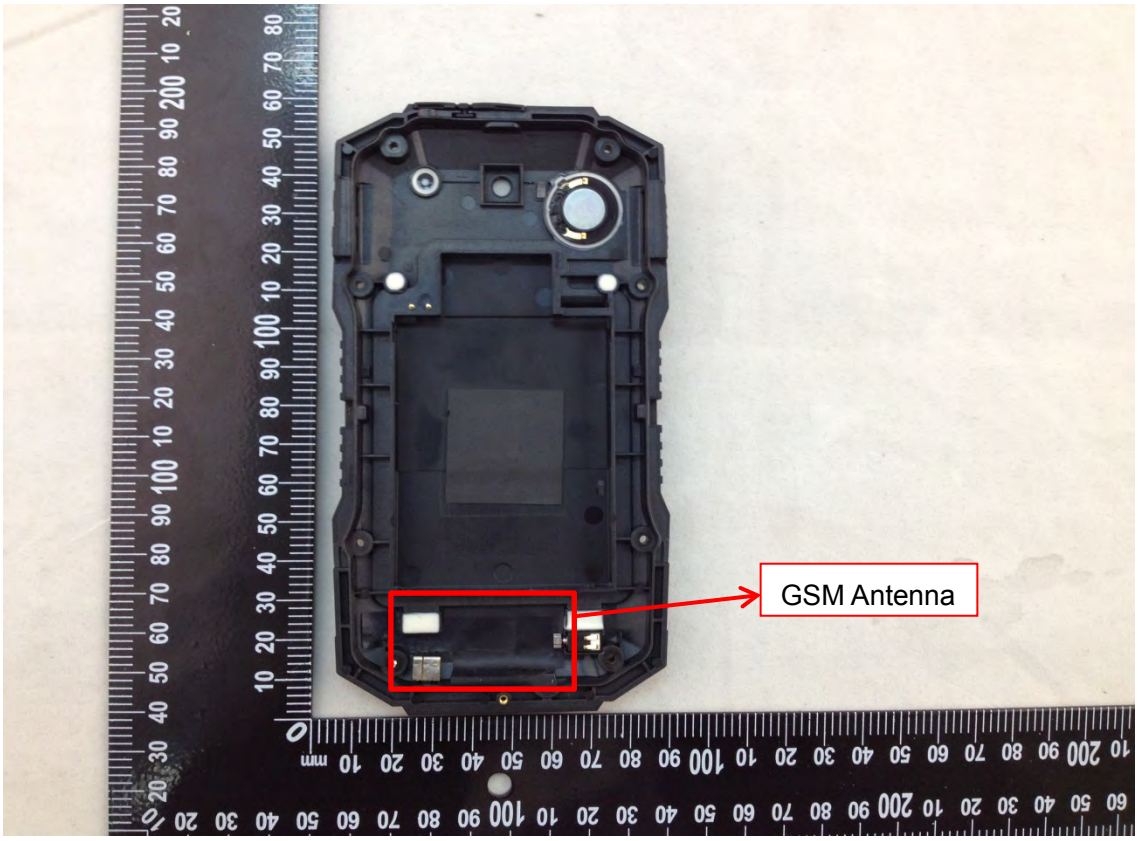
C.2 Inside of the EUT



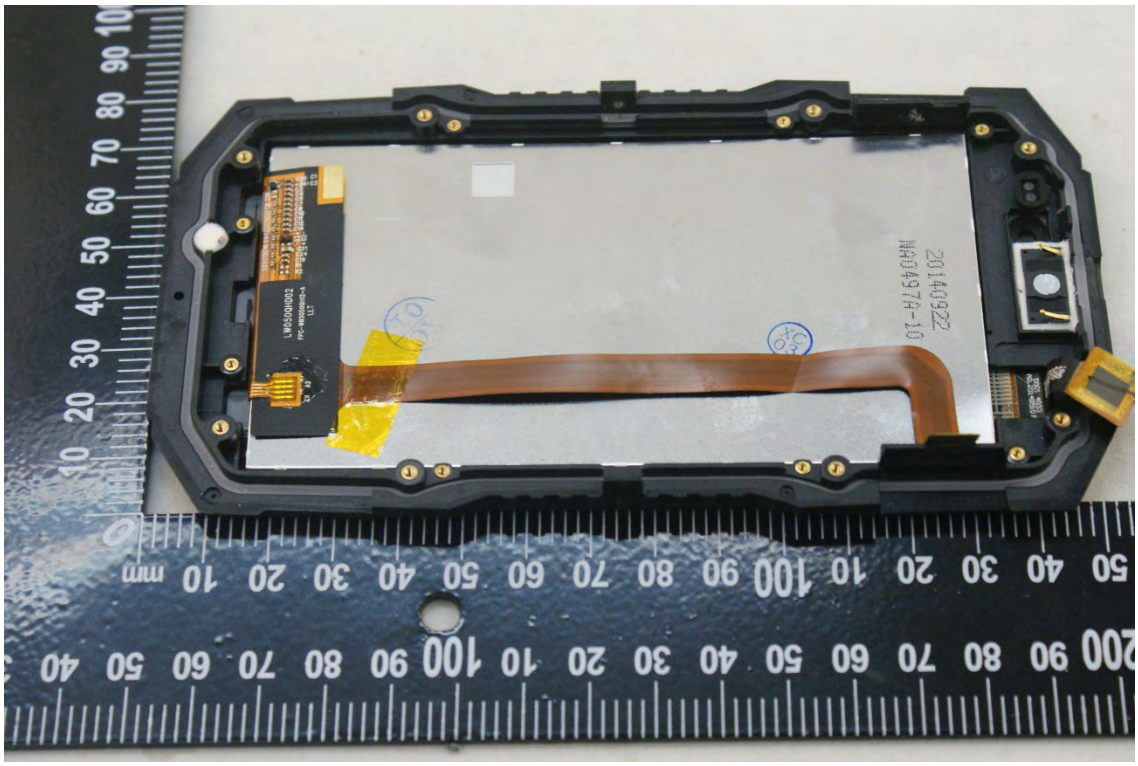
EUT UNCOVER VIEW 1



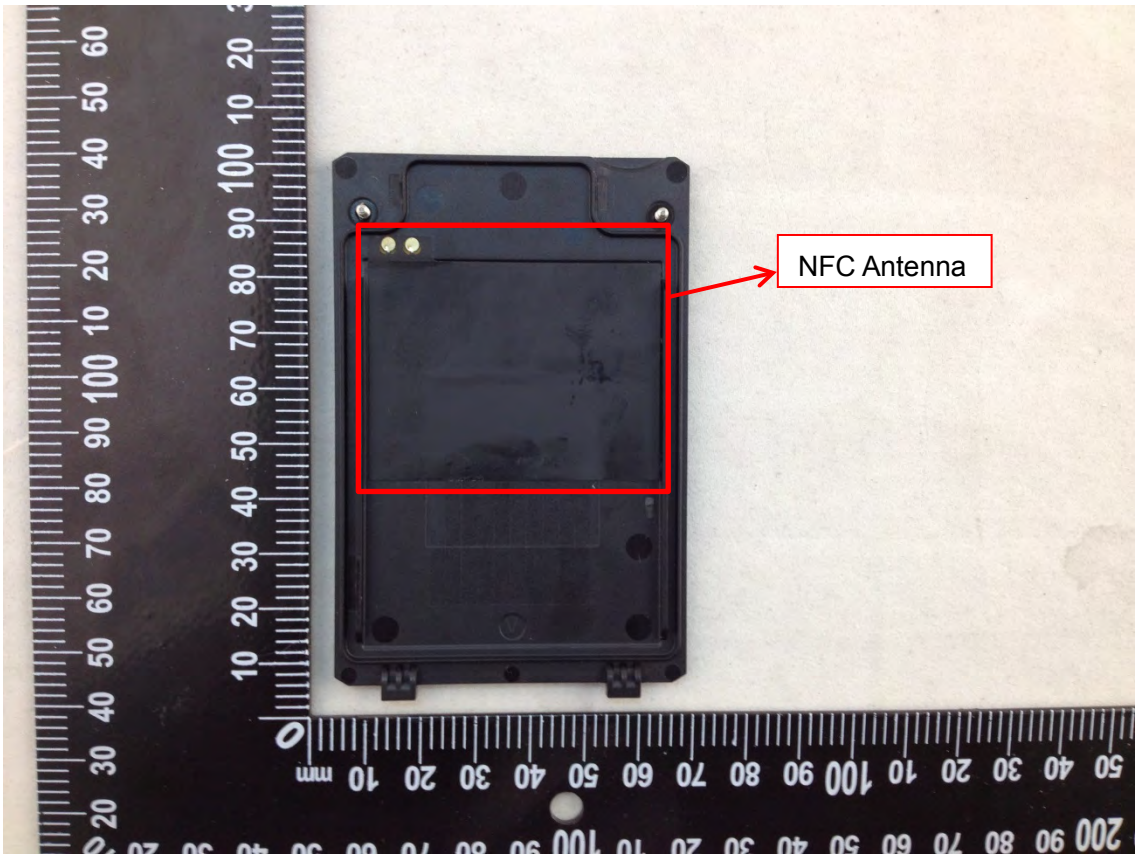
EUT UNCOVER VIEW 2



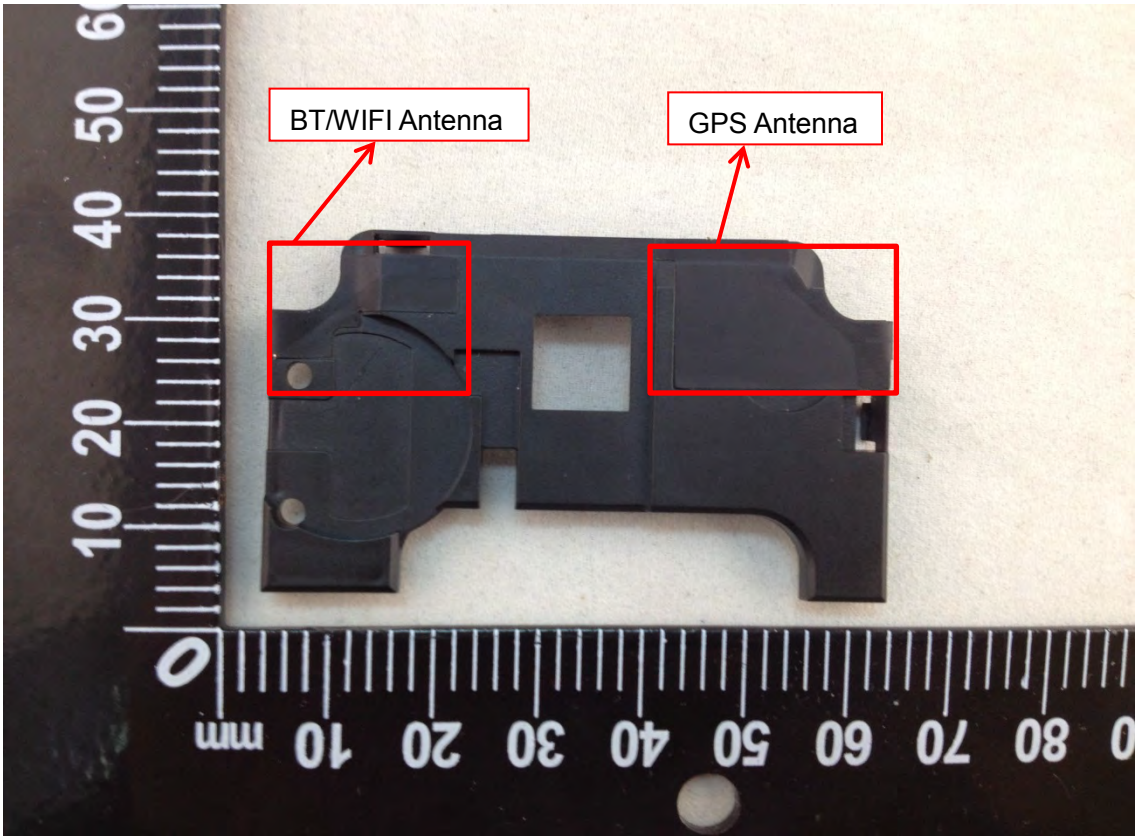
EUT UNCOVER VIEW 3



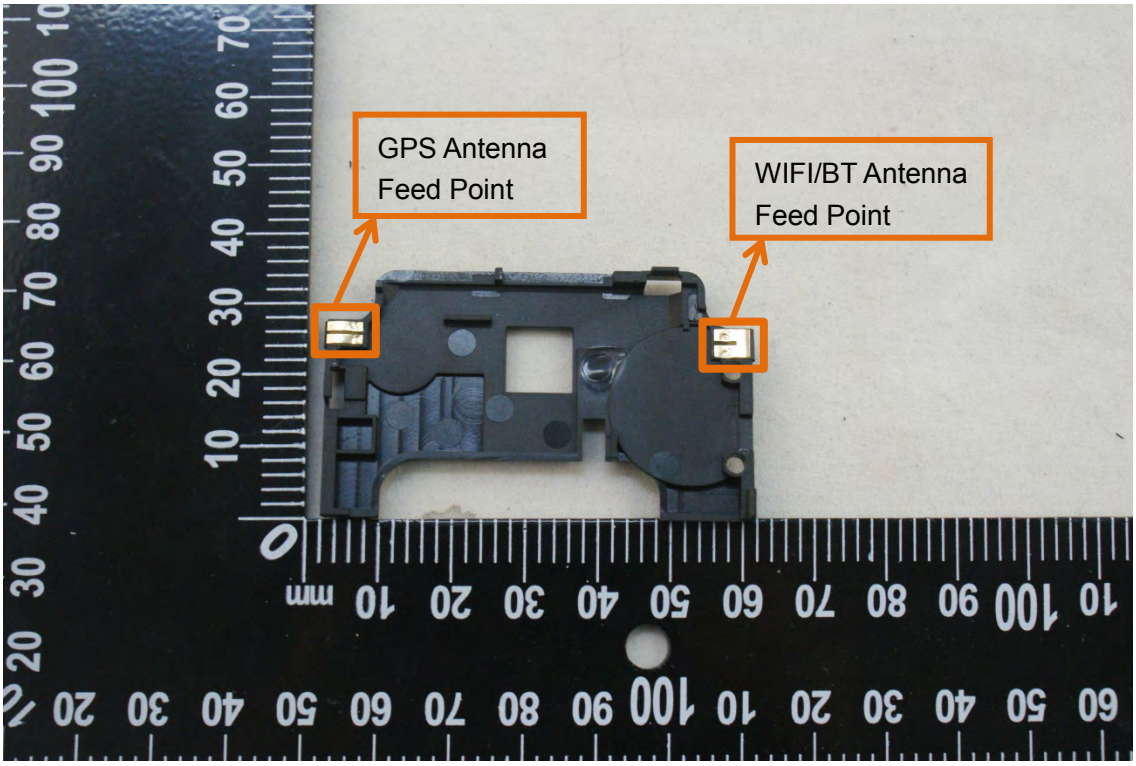
EUT UNCOVER VIEW 4



EUT UNCOVER VIEW 5

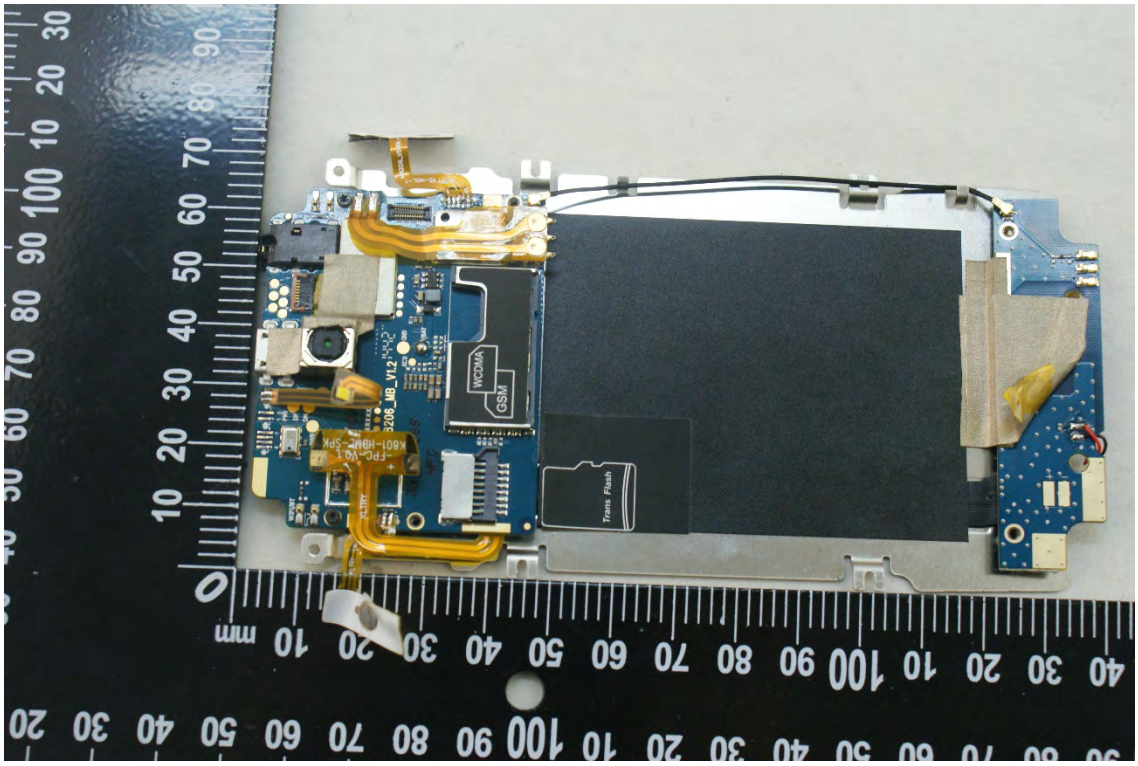


EUT UNCOVER VIEW 6

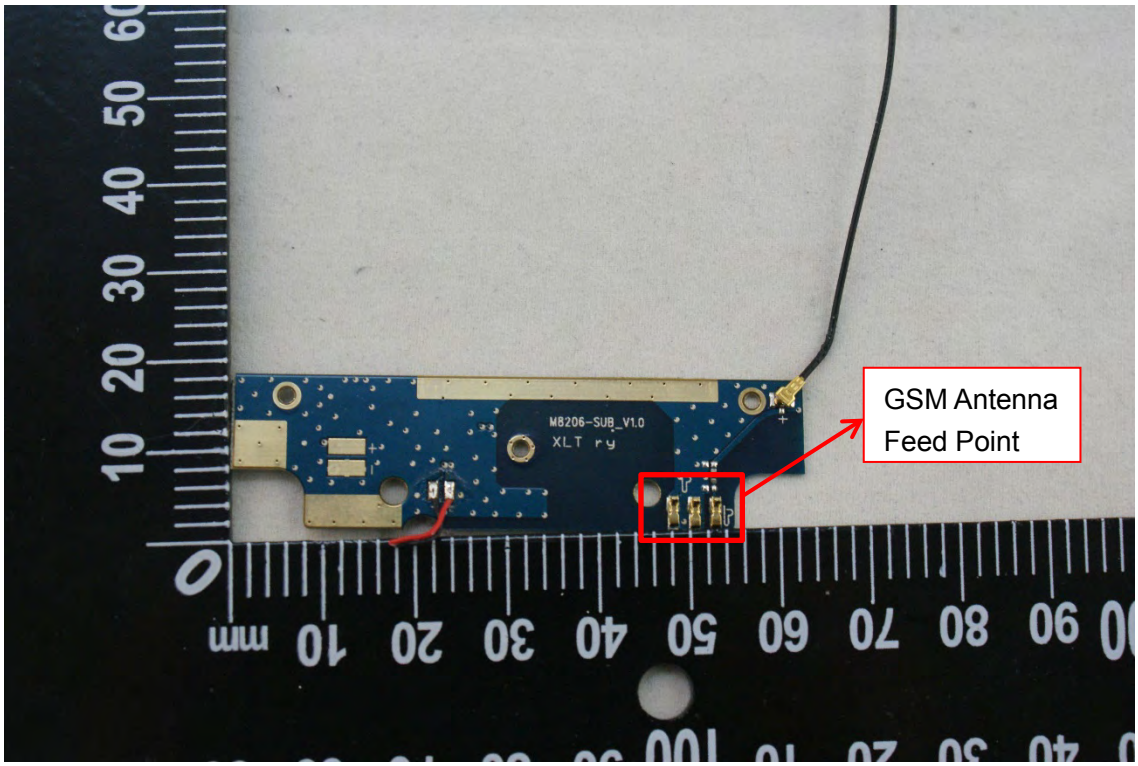


EUT UNCOVER VIEW 7

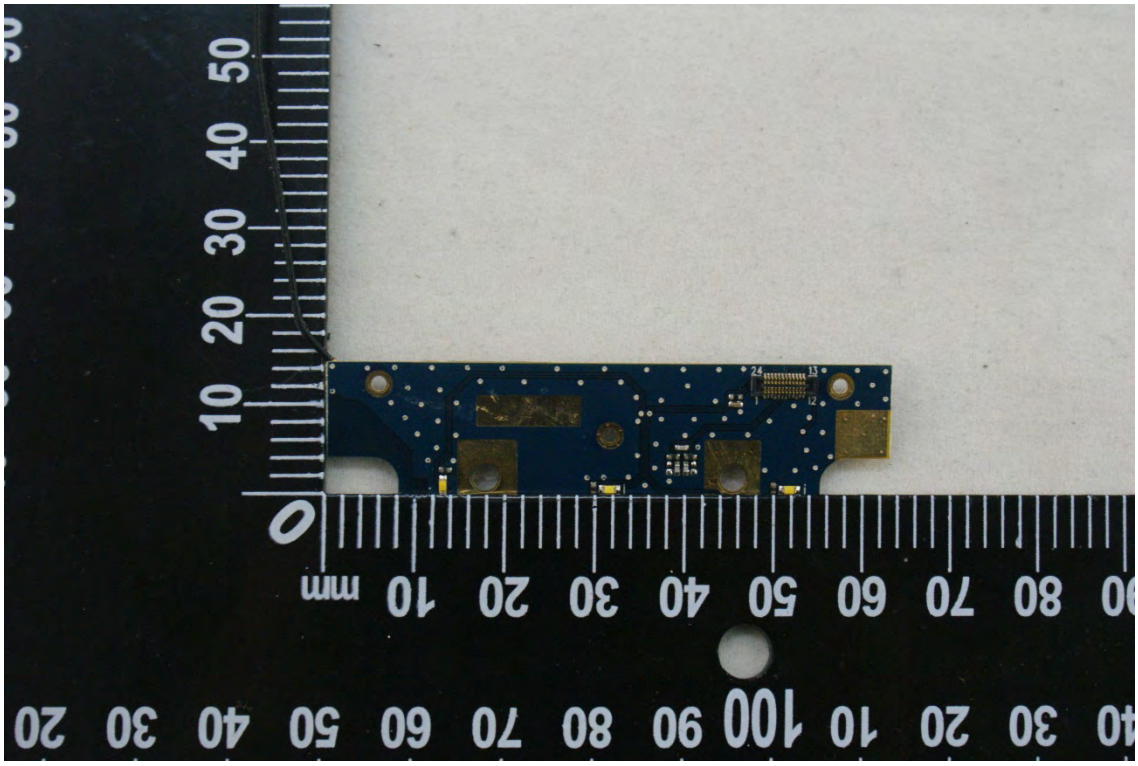
BATTERY



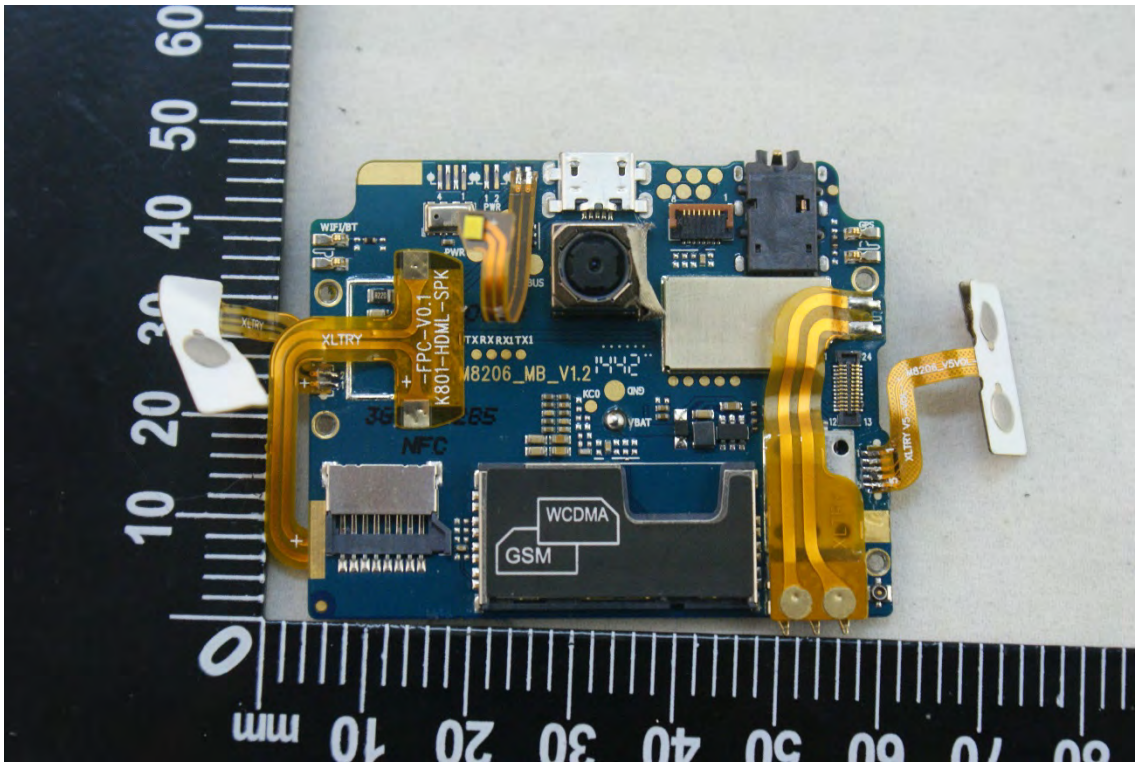
MAIN BOARD TOP VIEW 1



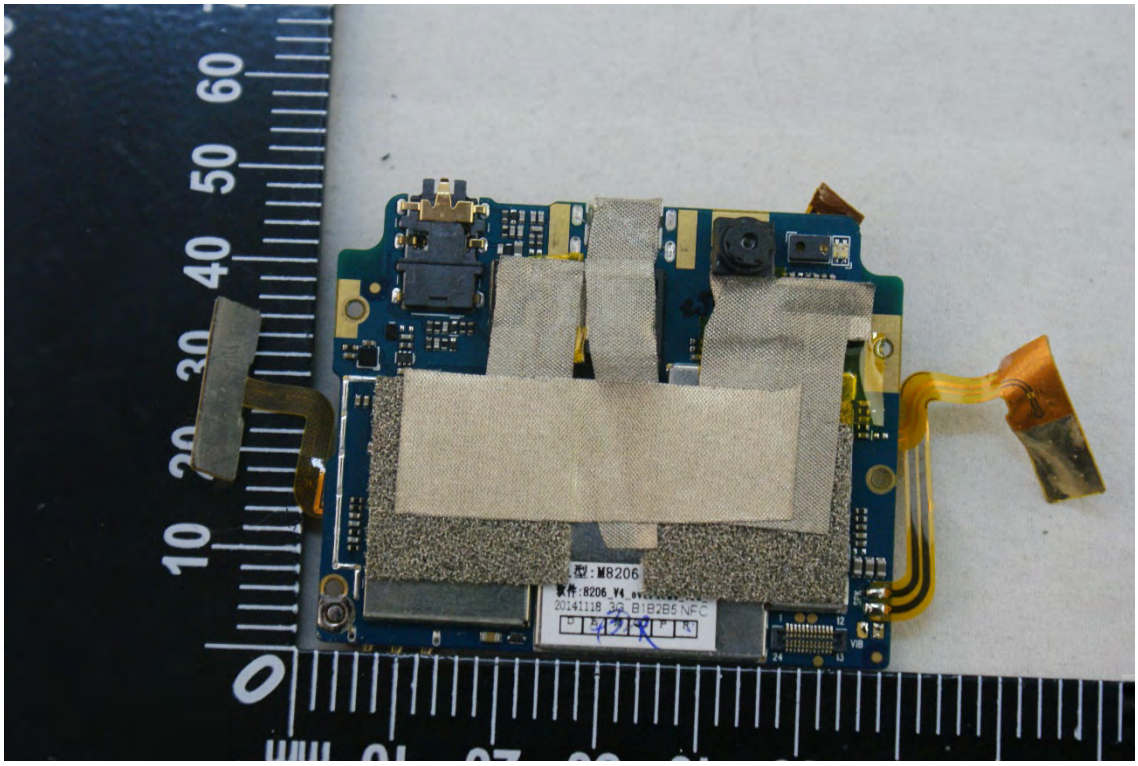
MAIN BOARD TOP VIEW 2



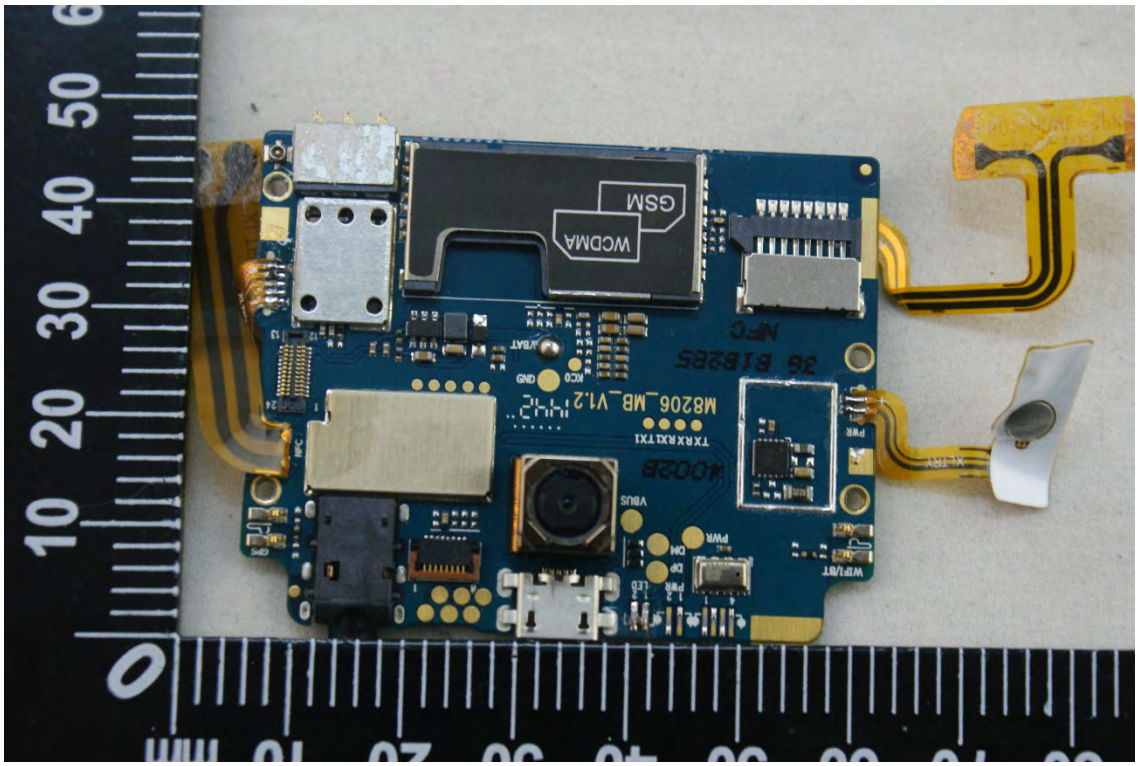
MAIN BOARD BACK VIEW 2



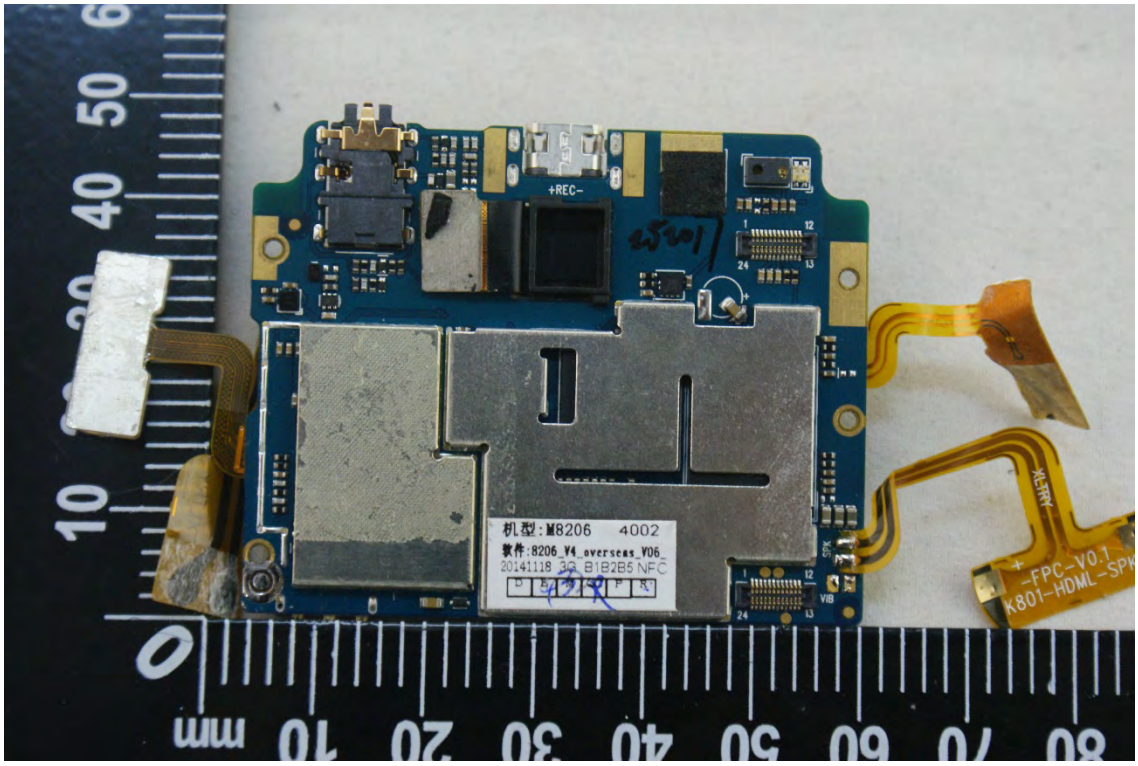
MAIN BOARD TOP VIEW 3



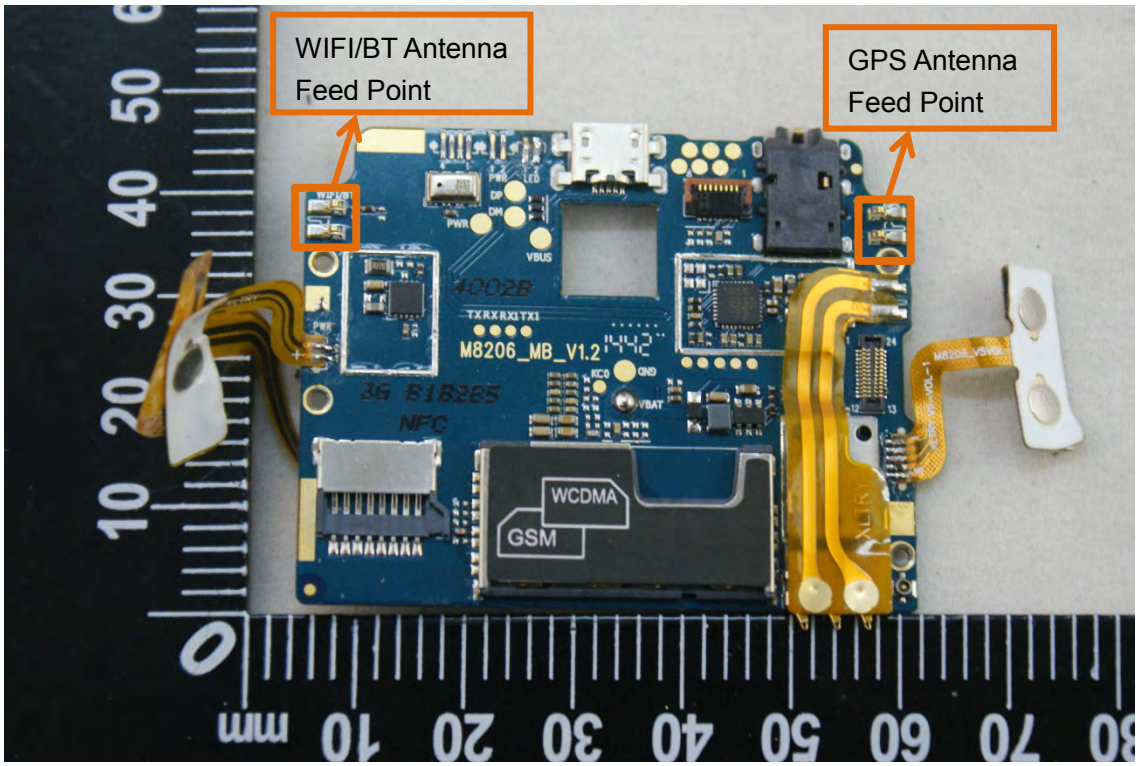
MAIN BOARD BACK VIEW 3



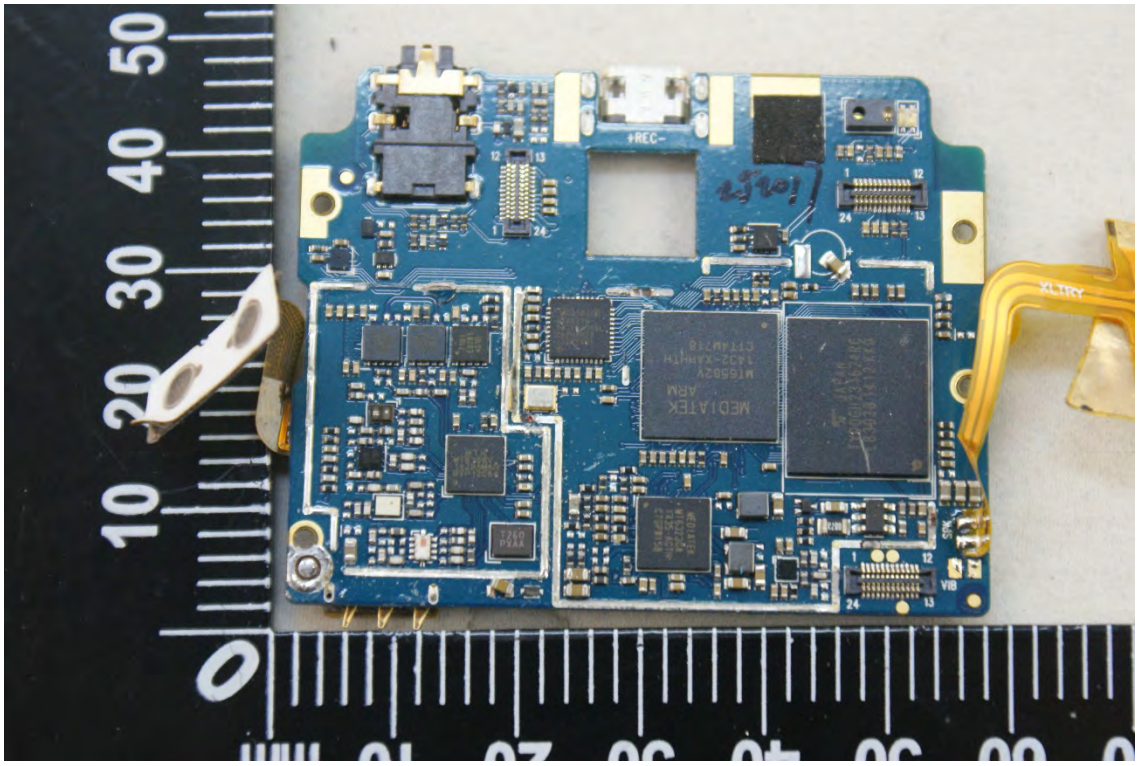
MAIN BOARD TOP VIEW 4



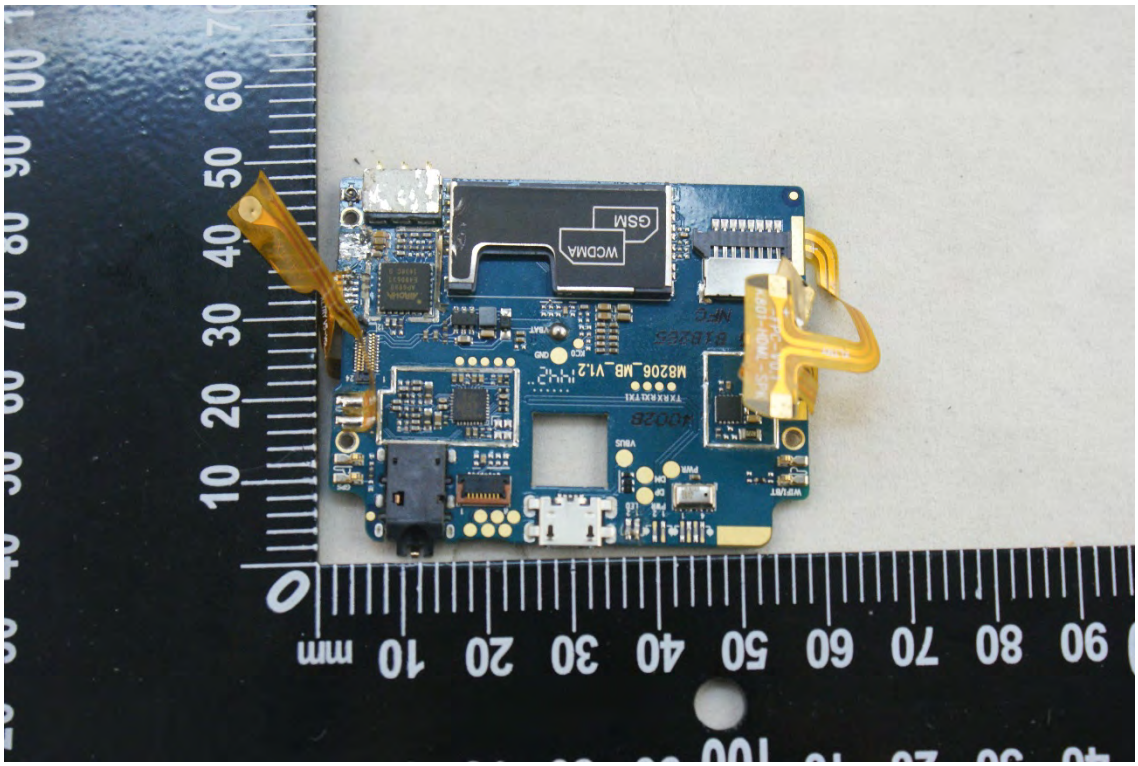
MAIN BOARD BACK VIEW 4



MAIN BOARD TOP VIEW 5



MAIN BOARD BACK VIEW 5



MAIN BOARD TOP VIEW 6

--END OF REPORT--