FCC Report

Application Purpose	: Original grant
Applicant Name:	: INFINIX MOBILITY LIMITED
FCC ID	: 2AIZN- X602
Equipment Type	: Mobile phone
Model Name	: X602
Report Number	: FCC16093968A-4
Standard(S)	: FCC Part 15 Subpart B
Date Of Receipt	: September 05, 2016
Date Of Issue	: October 12, 2016
Test By	raisy Bin
Reviewed By	(Daisy Qin) : Sol Gin
Authorized by	(Sol Qin) : Chindenling
Prepared by	 <u>(Michal Ling)</u> QTC Certification & Testing Co., Ltd. 2nd Floor,Bl Building,Fengyeyuan Industrial Plant,, Liuxian 2st. Road, Xin'an Street, Bao'an District,,Shenzhen,518000 Registration Number: 588523

REPORT REVISE RECORD									
Report Version									
V1.0	/	October 12, 2016	Valid	Original Report					
V1.1	/	October 25, 2016	Valid	Original Report					
	· · · · ·								
Report No · FCC1									

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1. GENERAL INFORMATION

Test Model	X602
Applicant	INFINIX MOBILITY LIMITED
Address	RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG
Manufacturer	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Address	1-4th Floor,3rd Building,Pacific Industrial Park,No.2088,Shenyan Road,Yantian District,Shenzhen,Guangdong,China
Equipment Type	Mobile phone
Brand Name	Infinix
Hardware	V1.1_B1-BOM
Software	X602-H972B1-M-160823V7
Battery information:	Li-Polymer Battery : BL-40FX Voltage: 3.85V Capacity: 4000mAh Limited Charge Voltage: 4.4V
Adapter Information:	Adapter: CQ-18KX Input: 100-240V 50/60Hz 600mA Output: 5V-6V 3A Output: 6V-9V 2A Output: 9V-12V 1.5A
Data of receipt	September 05, 2016
Date of test	September 05, 2016 to October 11, 2016
Deviation	None
Condition of Test Sample	Normal

We hereby certify that:

The above equipment was tested by QTC Certification & Testing Co., Ltd.

2nd Floor,Bl Building,Fengyeyuan Industrial Plant,, Liuxian 2st. Road, Xin'an Street, Bao'an District,,Shenzhen,518000

Registration Number: 588523

The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.4:2014. The sample tested as described in this report is in compliance with the FCC Rules Part15 Subpart B.

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

2. TEST DESCRIPTION

2.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm U , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** % °

No.	Item	Uncertainty
1	Conducted Emission Test	±3.2dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(<1G)	±4.7dB
5	All emissions, radiated(>1G)	±4.7dB
6	Temperature	±0.5°C
7	Humidity	±2%

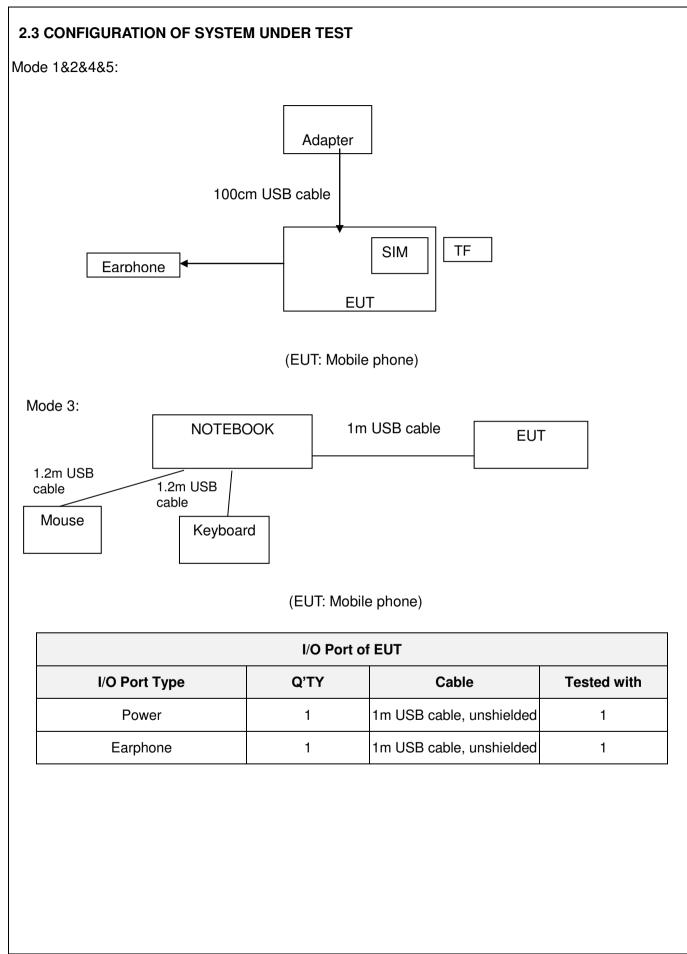
2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Video Recording
Model 2	Video Playing
Mode 3	Exchange data with computer
Mode 4	GPS
Mode 5	FM

For Conducted Emission			
Final Test Mode	Test with Keyboard and Mouse		
Mode 1	Video Recording		
Model 2	Video Playing		
Mode 3	Exchange data with computer		
Mode 4	GPS		
Mode 5	FM		

For Radiated Emission			
Final Test Mode	Test with Keyboard and Mouse		
Mode 1	Video Recording		
Model 2	Video Playing		
Mode 3	Exchange data with computer		
Mode 4	GPS		
Mode 5	FM		



2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	/	CQ-18KX	/	/
2	Keyboard	HP	SK-2880	435302-AA-	/
3	Mouse	DELL	MS111-1	/	/

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in $\[$ Length $\]$ column.

3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 , Subpart B					
Standard Section	Test Item	Judgment	Remark		
15.107	CONDUCTED EMISSION	PASS			
15.109	RADIATED EMISSION	PASS			

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

4. MEASUREMENT INSTRUMENTS							
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until		
ESCI Test Receiver	R&S	ESCI	100005	08/19/2016	08/18/2017		
LISN	AFJ	LS16	16010222119	08/19/2016	08/18/2017		
LISN(EUT)	Mestec	AN3016	04/10040	08/19/2016	08/18/2017		
pre-amplifier	CDSI	PAP-1G18-38		08/19/2016	08/18/2017		
System Controller	СТ	SC100	-	08/19/2016	08/18/2017		
Bi-log Antenna	Chase	CBL6111C	2576	08/19/2016	08/18/2017		
Spectrum analyzer	R&S	FSU26	200409	08/19/2016	08/18/2017		
Horn Antenna	SCHWARZBECK	9120D	1141	08/19/2016	08/18/2017		
Bi-log Antenna	SCHWAREBECK	VULB9163	9163/340	08/19/2016	08/18/2017		
Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2016	10/12/2017		
9*6*6 Anechoic				08/21/2016	08/20/2017		

5. EMC EMISSION TEST

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 POWER LINE CONDUCTED EMISSION Limits

nits (Frequency Range 150KHz-30MHz)

	Class A (dBuV)		Class B (dBuV)		Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Standard	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC	
0.50 -5.0	73.00	60.00	56.00	46.00	FCC	
5.0 -30.0	73.00	60.00	60.00	50.00	FCC	

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

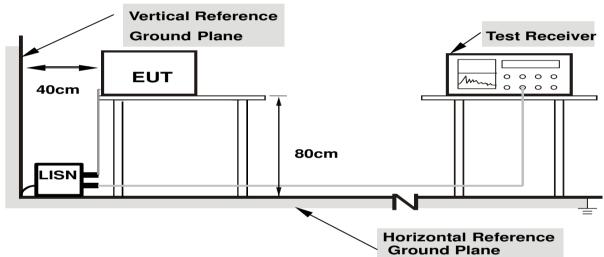
5.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

5.1.3 DEVIATION FROM TEST STANDARD

No deviation

5.1.4 TEST SETUP



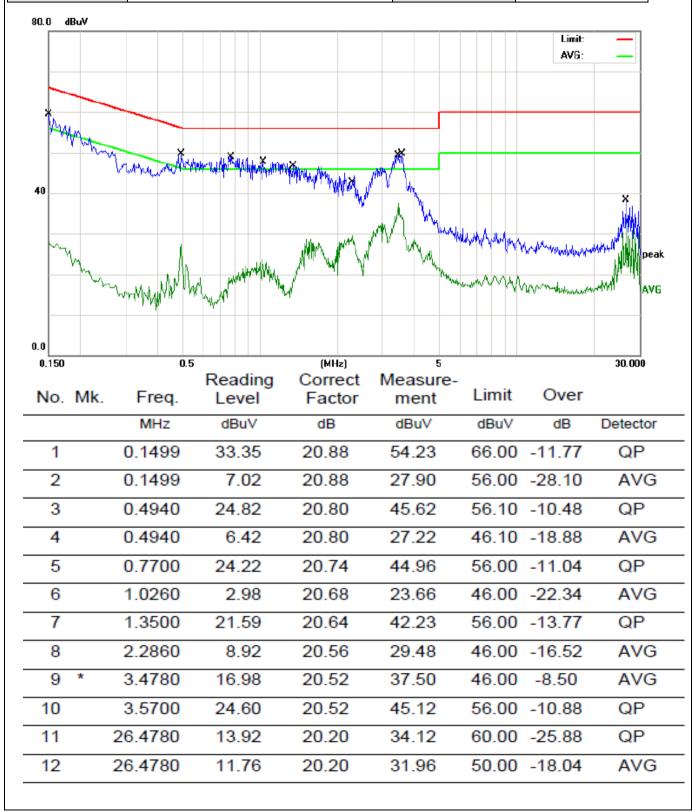
Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

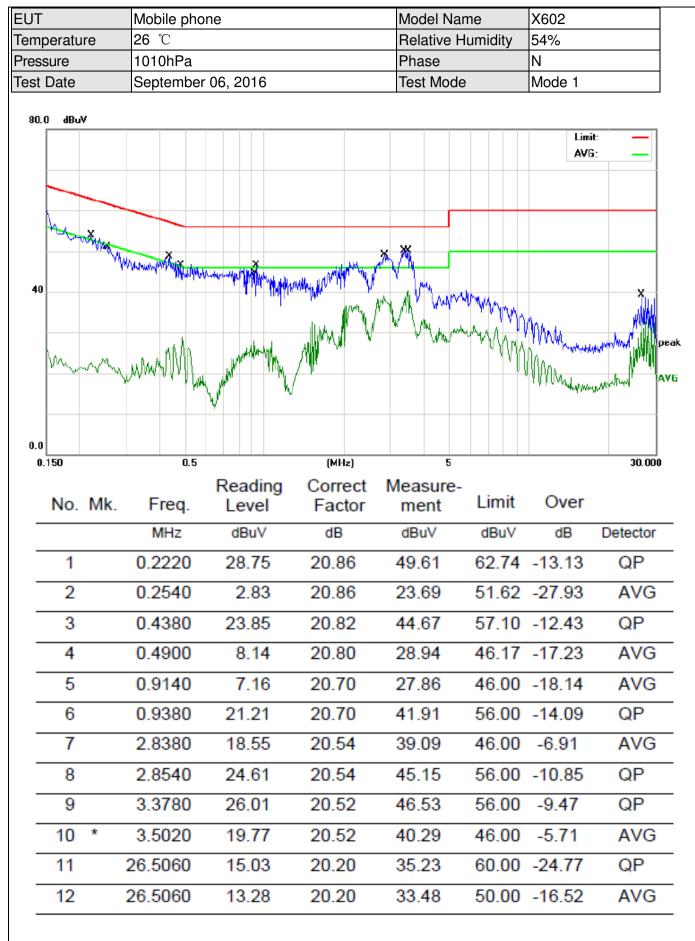
5.1.5 EUT OPERATING CONDITIONS

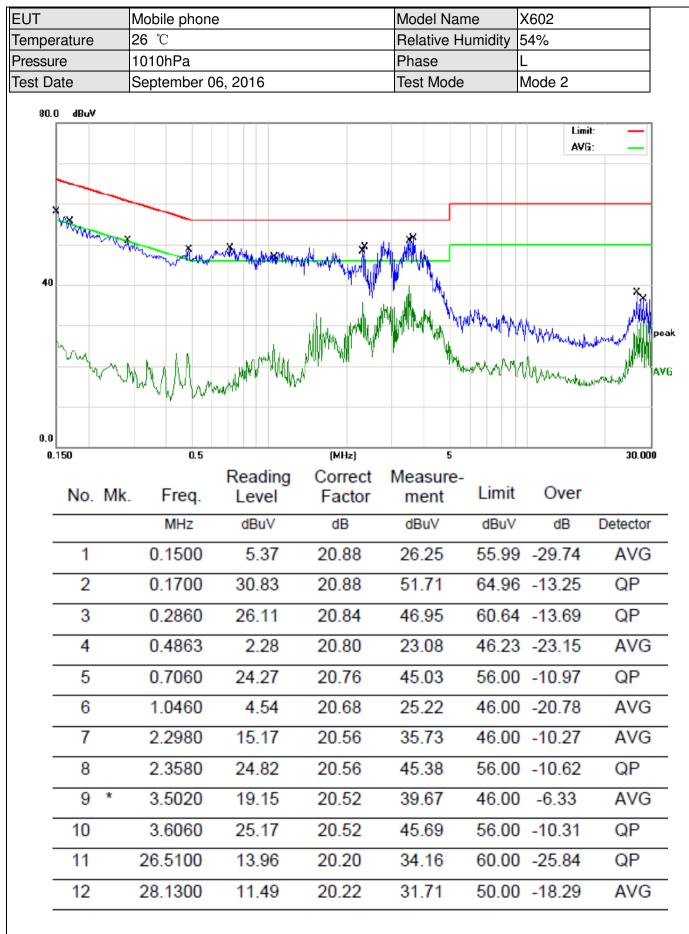
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

5.1.6 TEST RESULTS

EUT	Mobile phone	Model Name	X602
Temperature	26 ℃	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	September 06, 2016	Test Mode	Mode 1

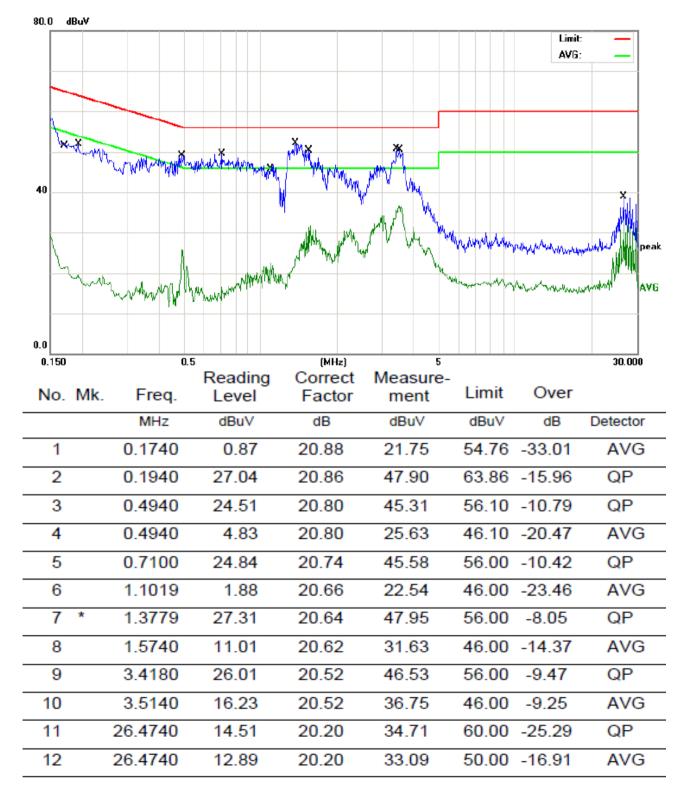






EUT	Μ	obile phon	е		Model Nam	ne	X602	
Temperatu	ure 26	26 ℃			Relative Humidity		54%	
Pressure		1010hPa Phase			N			
Test Date	S	eptember (06, 2016		Test Mode		Mode 2	
80.0 dBu\	/						Limit AVG	
40	min and a	and the second				m m MM	M. M. Marine	
0.0		0.5		(MHz)	5			30.000
No			Reading	Correct	Measure-			
INU.	Mk.	Freq.	Level	Factor	ment	Limit	Over	
NO.	Mk.					Limit dBuV	Over dB	Detector
1		Freq.	Level	Factor	ment	dBuV		Detector
	0.	Freq. MHz	Level dBuV	Factor dB	ment dBu∨	dBu∨ 64.90	dB	
1	0.	Freq. MHz 1711	Level dBu∨ 28.27	Factor dB 20.88	ment dBuV 49.15	dBu∨ 64.90 61.36	dB -15.75	QP QP
1	0.	Freq. MHz 1711 2620	Level dBuV 28.27 29.10	Factor dB 20.88 20.86	ment dBu∨ 49.15 49.96	dBu∨ 64.90 61.36 50.64	dB -15.75 -11.40	QP QP AVG
1 2 3	0. 0. 0. 0.	Freq. MHz 1711 2620 2860	Level dBuV 28.27 29.10 6.03	Factor dB 20.88 20.86 20.84	ment dBuV 49.15 49.96 26.87	dBu∨ 64.90 61.36 50.64 47.10	dB -15.75 -11.40 -23.77	QP QP AVG AVG
1 2 3 4	0. 0. 0. 0. 1.	Freq. MHz 1711 2620 2860 4380	Level dBuV 28.27 29.10 6.03 8.33	Factor dB 20.88 20.86 20.84 20.82	ment dBuV 49.15 49.96 26.87 29.15	dBu∨ 64.90 61.36 50.64 47.10 46.00	dB -15.75 -11.40 -23.77 -17.95	QP QP AVG AVG AVG
1 2 3 4 5	0. 0. 0. 1. 1.	Freq. MHz 1711 2620 2860 4380 0460	Level dBuV 28.27 29.10 6.03 8.33 12.14	Factor dB 20.88 20.86 20.84 20.82 20.68	ment dBuV 49.15 49.96 26.87 29.15 32.82 45.68	dBu∨ 64.90 61.36 50.64 47.10 46.00 56.00	dB -15.75 -11.40 -23.77 -17.95 -13.18	QP QP AVG AVG AVG QP
1 2 3 4 5 6	0. 0. 0. 1. 1. * 1.	Freq. MHz 1711 2620 2860 4380 0460 3660	Level dBuV 28.27 29.10 6.03 8.33 12.14 25.04	Factor dB 20.88 20.86 20.84 20.82 20.68 20.64	ment dBuV 49.15 49.96 26.87 29.15 32.82 45.68	dBu∨ 64.90 61.36 50.64 47.10 46.00 56.00 46.00	dB -15.75 -11.40 -23.77 -17.95 -13.18 -10.32	QP QP AVG AVG AVG QP AVG
1 2 3 4 5 6 7	0. 0. 0. 1. 1. * 1. 1.	Freq. MHz 1711 2620 2860 4380 0460 3660 5300	Level dBuV 28.27 29.10 6.03 8.33 12.14 25.04 18.48	Factor dB 20.88 20.86 20.84 20.82 20.68 20.68 20.64 20.62	ment dBuV 49.15 49.96 26.87 29.15 32.82 45.68 39.10	dBu∨ 64.90 61.36 50.64 47.10 46.00 56.00 56.00	dB -15.75 -11.40 -23.77 -17.95 -13.18 -10.32 -6.90	QP QP AVG AVG QP AVG QP
1 2 3 4 5 6 7 8	0. 0. 0. 1. 1. * 1. * 1. 2.	Freq. MHz 1711 2620 2860 4380 0460 3660 5300 5859	Level dBuV 28.27 29.10 6.03 8.33 12.14 25.04 18.48 21.05	Factor dB 20.88 20.86 20.84 20.82 20.68 20.64 20.62 20.62	ment dBuV 49.15 49.96 26.87 29.15 32.82 45.68 39.10 41.67	dBu∨ 64.90 61.36 50.64 47.10 46.00 56.00 56.00 56.00	dB -15.75 -11.40 -23.77 -17.95 -13.18 -10.32 -6.90 -14.33	QP QP AVG AVG QP AVG QP QP QP
1 2 3 4 5 6 7 8 9	0. 0. 0. 1. 1. * 1. 2. 3.	Freq. MHz 1711 2620 2860 4380 0460 3660 5300 5859 9580	Level dBuV 28.27 29.10 6.03 8.33 12.14 25.04 18.48 21.05 21.04	Factor dB 20.88 20.86 20.84 20.82 20.68 20.64 20.62 20.62 20.62 20.54	ment dBuV 49.15 49.96 26.87 29.15 32.82 45.68 39.10 41.67 41.58	dBu∨ 64.90 61.36 50.64 47.10 46.00 56.00 56.00 56.00 46.00	dB -15.75 -11.40 -23.77 -17.95 -13.18 -10.32 -6.90 -14.33 -14.42	QP QP AVG AVG QP AVG QP QP QP AVG

EUT	Mobile phone	Model Name	X602
Temperature	26 ℃	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	September 06, 2016	Test Mode	Mode 3



ature				Mobile phone			X602		
		26 °C Relative Humidity		54%					
е		1010hPa			Phase N		Ν	N	
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			Reading	Correct	Measure		_		
No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	
1		0.1700	29.27	20.88	50.15	64.96	-14.81	QP	
2		0.2404	1.29	20.86	22.15	52.08	-29.93	AVG	
3		0.2460	28.48	20.86	49.34	61.89	-12.55	QP	
4		0.4180	5.10	20.82	25.92	47.49	-21.57	AVG	
5		0.4380	25.56	20.82	46.38	57.10	-10.72	QP	
6		0.4940	9.63	20.80	30.43	46.10	-15.67	AVG	
7		1.0580	12.26	20.68	32.94	46.00	-13.06	AVG	
8		1.1740	16.35	20.66	37.01	56.00	-18.99	QP	
9	*	1.5260	14.71	20.62	35.33	46.00	-10.67	AVG	
10		2.8740	18.56	20.54	39.10	56.00	-16.90	QP	
11		27.4060	15.06	20.20	35.26			QP	
12		28.0500	14.01	20.22	34.23	50.00		AVG	
	□ dBu → → → → → → → → → → → → →	a a a a a a a a b a a a b a b a b a b a b a b a b a b a b a b a b a b a c	aBuv aBuv Market Market <td>J J</td> <td>ивич ивич ивич ивич инга ивич инга ивич ивич ивич инга ивич инга ивич ивич ивич ивич<td>а вых авых</td><td>B aBuv ABuv 1 <td< td=""><td>Joint Burk Joint Burk</td></td<></td></td>	J J	ивич ивич инга ивич инга ивич ивич ивич инга ивич инга ивич ивич ивич ивич <td>а вых авых</td> <td>B aBuv ABuv 1 <td< td=""><td>Joint Burk Joint Burk</td></td<></td>	а вых авых	B aBuv ABuv 1 <td< td=""><td>Joint Burk Joint Burk</td></td<>	Joint Burk Joint Burk	

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EUT		Mobile phone			Iobile phone Model Name		X602		
Temperature		26 ී			Relative H	umidity	54%		
Pressure		1010hPa Phase				L			
Test Date		September 0	6, 2016		Test Mode		Mode 4		
80.0 dBuV									
								Limit: - AVG: -	
MMM									
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0.0									
0.0		0.5		(MHz)	5			3	
0.150			Reading	Correct	Measure-	Limit	Over	3	
0.150	Mk.	Freq.	Level	Correct Factor	Measure- ment	Limit	Over		
0.150	Mk.		_	Correct	Measure-	Limit dBuV	Over dB	3 Detector	
0.150	Mk.	Freq.	Level	Correct Factor	Measure- ment		dB		
0.150	Mk.	Freq. MHz	Level dBu∨	Correct Factor dB	Measure- ment dBuV	dBu∨ 65.78	dB	Detector	
0.1 <u>50</u> No.	Mk.	Freq. MHz 0.1539	Level dBuV 40.91	Correct Factor dB 10.44	Measure- ment dBuV 51.35	dBu∨ 65.78 52.89	dB -14.43	Detector	
0.1 <u>50</u> No. 1	Mk.	Freq. MHz 0.1539 0.2180	Level dBuV 40.91 22.12	Correct Factor dB 10.44 10.43	Measure- ment dBuV 51.35 32.55	dBuV 65.78 52.89 48.50	dB -14.43 -20.34	Detector QP AVG	
0.150 No. 1 2 3	*	Freq. MHz 0.1539 0.2180 0.3700	Level dBuV 40.91 22.12 18.75	Correct Factor dB 10.44 10.43 10.41	Measure- ment dBuV 51.35 32.55 29.16	dBuV 65.78 52.89 48.50 57.89	dB -14.43 -20.34 -19.34	Detector QP AVG AVG	
0.150 No. 1 2 3 4		Freq. MHz 0.1539 0.2180 0.3700 0.3980	Level dBuV 40.91 22.12 18.75 30.42	Correct Factor dB 10.44 10.43 10.41 10.41	Measure- ment dBuV 51.35 32.55 29.16 40.83	dBuV 65.78 52.89 48.50 57.89 46.00	dB -14.43 -20.34 -19.34 -17.06	Detector QP AVG AVG QP	
0.150 No. 1 2 3 4 5		Freq. MHz 0.1539 0.2180 0.3700 0.3980 0.6740	Level dBuV 40.91 22.12 18.75 30.42 25.92	Correct Factor dB 10.44 10.43 10.41 10.41 10.38	Measure- ment dBuV 51.35 32.55 29.16 40.83 36.30	dBuV 65.78 52.89 48.50 57.89 46.00 56.00	dB -14.43 -20.34 -19.34 -17.06 -9.70	Detector QP AVG AVG QP AVG	
0.150 No. 1 2 3 4 5 6		Freq. MHz 0.1539 0.2180 0.3700 0.3980 0.6740 0.6780	Level dBuV 40.91 22.12 18.75 30.42 25.92 29.79	Correct Factor dB 10.44 10.43 10.41 10.41 10.38 10.38	Measure- ment dBuV 51.35 32.55 29.16 40.83 36.30 40.17	dBuV 65.78 52.89 48.50 57.89 46.00 56.00 46.00	dB -14.43 -20.34 -19.34 -17.06 -9.70 -15.83	Detector QP AVG AVG QP AVG QP	
0.150 No. 1 2 3 4 5 6 7		Freq. MHz 0.1539 0.2180 0.3700 0.3980 0.6740 0.6780 2.3020	Level dBuV 40.91 22.12 18.75 30.42 25.92 29.79 25.16	Correct Factor dB 10.44 10.43 10.41 10.41 10.38 10.38 10.28	Measure- ment dBuV 51.35 32.55 29.16 40.83 36.30 40.17 35.44	dBuV 65.78 52.89 48.50 57.89 46.00 56.00 56.00	dB -14.43 -20.34 -19.34 -17.06 -9.70 -15.83 -10.56	Detector QP AVG AVG QP AVG QP AVG	
0.150 No. 1 2 3 4 5 6 7 8		Freq. MHz 0.1539 0.2180 0.3700 0.3980 0.6740 0.6780 2.3020 2.3100	Level dBuV 40.91 22.12 18.75 30.42 25.92 29.79 25.16 32.53	Correct Factor dB 10.44 10.43 10.41 10.41 10.38 10.38 10.38 10.28	Measure- ment dBuV 51.35 32.55 29.16 40.83 36.30 40.17 35.44 42.81	dBuV 65.78 52.89 48.50 57.89 46.00 56.00 56.00 50.00	dB -14.43 -20.34 -19.34 -17.06 -9.70 -15.83 -10.56 -13.19	Detector QP AVG AVG QP AVG QP AVG QP	
0.150 No. 1 2 3 4 5 6 7 8 9		Freq. MHz 0.1539 0.2180 0.3700 0.3980 0.6740 0.6780 2.3020 2.3100 5.8140	Level dBuV 40.91 22.12 18.75 30.42 25.92 29.79 25.16 32.53 19.32	Correct Factor dB 10.44 10.43 10.41 10.41 10.38 10.38 10.28 10.28 10.22	Measure- ment dBuV 51.35 32.55 29.16 40.83 36.30 40.17 35.44 42.81 29.54	dBuV 65.78 52.89 48.50 57.89 46.00 56.00 56.00 50.00 60.00	dB -14.43 -20.34 -19.34 -17.06 -9.70 -15.83 -10.56 -13.19 -20.46	Detector QP AVG AVG QP AVG QP AVG QP	

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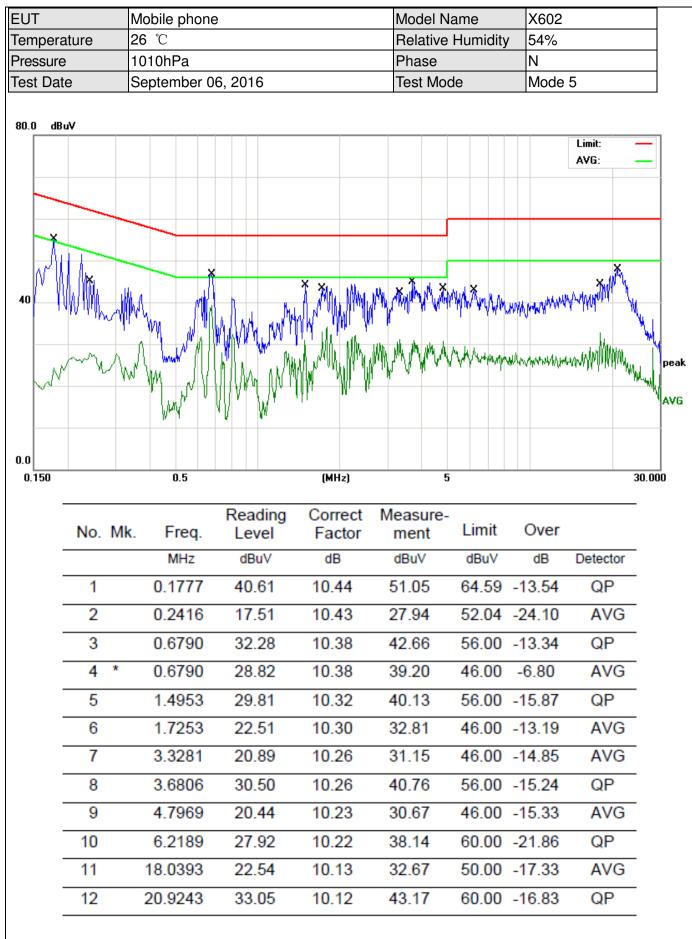
EUT	Mobile phon	е		Model Na	ame	X602	
Temperature	26 ℃			Relative		54%	
Pressure	1010hPa	1010hPa		Phase		N	
Test Date	September (06, 2016		Test Mod	le	Mode 4	1
80.0 dBuV							Limit: — AVG: —
40	ma many			My Ay Ay Ay Ay My Ay Ay Ay Ay	WMWWWW WMW	nhlhhhhmh Nhhhmh	AMM/M/M/MANANAAAAAAAAAAAAAAAAAAAAAAAAAA
0.0							
0 1 5 0	0.5						20.000
0.150	0.5		(MHz)	5			30.000
0.150 No. N		Reading Level	(MH2) Correct Factor	5 Measure- ment	Limit	Over	30.000
		_	Correct	Measure-		Over dB	30.000 Detector
	Mk. Freq.	Level	Correct Factor	Measure- ment	Limit dBu∨		
No. N	Mk. Freq. MHz	Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV 55.99	dB	Detector
No. N	Mk. Freq. MHz 0.1500	Level dBuV 18.09	Correct Factor dB 10.44	Measure- ment dBuV 28.53	Limit dBuV 55.99 65.78	dB -27.46	Detector AVG
No. N 1 2	Mk. Freq. MHz 0.1500 0.1539	Level dBuV 18.09 31.83	Correct Factor dB 10.44 10.44	Measure- ment dBuV 28.53 42.27	Limit dBuV 55.99 65.78 58.41	dB -27.46 -23.51	Detector AVG QP
No. No. 1	Mk. Freq. MHz 0.1500 0.1539 0.3740	Level dBuV 18.09 31.83 34.72	Correct Factor dB 10.44 10.44 10.41	Measure- ment dBuV 28.53 42.27 45.13	Limit dBuV 55.99 65.78 58.41 48.41	dB -27.46 -23.51 -13.28	Detector AVG QP QP
No. N 1 2 3 4	Mk. Freq. MHz 0.1500 0.1539 0.3740 0.3740	Level dBuV 18.09 31.83 34.72 24.23	Correct Factor dB 10.44 10.44 10.41 10.41	Measure- ment dBuV 28.53 42.27 45.13 34.64	Limit dBuV 55.99 65.78 58.41 48.41 46.00	dB -27.46 -23.51 -13.28 -13.77	Detector AVG QP QP AVG
No.	Mk. Freq. MHz 0.1500 0.1539 0.3740 0.3740 0.3740 0.8139 0.9580	Level dBuV 18.09 31.83 34.72 24.23 22.68	Correct Factor dB 10.44 10.44 10.41 10.41 10.36	Measure- ment dBuV 28.53 42.27 45.13 34.64 33.04	Limit dBuV 55.99 65.78 58.41 48.41 46.00 56.00	dB -27.46 -23.51 -13.28 -13.77 -12.96	Detector AVG QP QP AVG AVG
No. N 1 2 3 4 5 6	Mk. Freq. MHz 0.1500 0.1539 0.3740 0.3740 0.3740 0.8139 0.9580	Level dBuV 18.09 31.83 34.72 24.23 22.68 31.96	Correct Factor dB 10.44 10.44 10.41 10.41 10.36 10.34	Measure- ment dBuV 28.53 42.27 45.13 34.64 33.04 42.30	Limit dBuV 55.99 65.78 58.41 48.41 46.00 56.00 56.00	dB -27.46 -23.51 -13.28 -13.77 -12.96 -13.70	Detector AVG QP QP AVG AVG QP
No.	Mk. Freq. MHz 0.1500 0.1539 0.3740 0.3740 0.3740 0.8139 0.9580 2.2300	Level dBuV 18.09 31.83 34.72 24.23 22.68 31.96 35.90	Correct Factor dB 10.44 10.44 10.41 10.41 10.36 10.34 10.29	Measure- ment dBuV 28.53 42.27 45.13 34.64 33.04 42.30 46.19	Limit dBuV 55.99 65.78 58.41 48.41 46.00 56.00 56.00 46.00	dB -27.46 -23.51 -13.28 -13.77 -12.96 -13.70 -9.81	Detector AVG QP AVG AVG QP QP
No.	Mk. Freq. MHz 0.1500 0.1539 0.3740 0.3740 0.8139 0.9580 2.2300 2.2980	Level dBuV 18.09 31.83 34.72 24.23 22.68 31.96 35.90 25.68	Correct Factor dB 10.44 10.44 10.41 10.41 10.36 10.34 10.29 10.28	Measure- ment dBuV 28.53 42.27 45.13 34.64 33.04 42.30 46.19 35.96	Limit dBuV 55.99 65.78 58.41 48.41 46.00 56.00 46.00 56.00	dB -27.46 -23.51 -13.28 -13.77 -12.96 -13.70 -9.81 -9.81 -10.04	Detector AVG QP AVG AVG QP QP QP AVG
No.	Mk. Freq. MHz 0.1500 0.1539 0.3740 0.3740 0.3740 0.8139 0.9580 2.2300 2.2980 4.3780	Level dBuV 18.09 31.83 34.72 24.23 22.68 31.96 35.90 25.68 34.92	Correct Factor dB 10.44 10.44 10.41 10.41 10.36 10.34 10.29 10.28 10.24	Measure- ment dBuV 28.53 42.27 45.13 34.64 33.04 42.30 46.19 35.96 45.16	Limit dBuV 55.99 65.78 58.41 48.41 46.00 56.00 46.00 56.00 46.00	dB -27.46 -23.51 -13.28 -13.77 -12.96 -13.70 -9.81 -9.81 -10.04 -10.84	Detector AVG QP AVG AVG QP QP QP AVG QP

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EUT		Mobile phone		Model Na		X602		
Tempe	erature	26 ℃			Relative I	Humidity	54%	
Pressu	ure	1010hPa		Phase		L		
Test D	Date	September (06, 2016		Test Mod	е	Mode 5	
80.0	dBu¥							Limit: —
40								
0.0	50	0.5		(MHz)		5		30.00
<u></u>			Reading	Correct	Measure	-		
	No. Mk.	Freq.	Level	Factor	ment	Limit	Over	
_		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
_	1	0.2100	21.43	10.43	31.86	53.20	-21.34	AVG
_	2	0.2180	30.28	10.43	40.71	62.89	-22.18	QP
_	3	0.6660	35.57	10.38	45.95	56.00	-10.05	QP
_	4 *	0.6700	28.07	10.38	38.45	46.00	-7.55	AVG
_	5	1.2700	27.13	10.33	37.46	56.00	-18.54	QP
_	6	1.4940	18.41	10.32	28.73	46.00	-17.27	AVG
_	7	2.2139	25.88	10.29	36.17	56.00	-19.83	QP
_	8	2.2820	15.91	10.28	26.19	46.00	-19.81	AVG
	0	4.2860	33.68	10.24	43.92	56.00	-12.08	QP
-	9							
_	9 10	4.8020	22.00	10.23	32.23	46.00	-13.77	AVG
-			22.00 25.71	10.23 10.13	32.23 35.84		-13.77 -14.16	AVG AVG

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5.2 RADIATED EMISSION MEASUREMENT

5.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)			
	PEAK	AVERAGE		
Above 1000	74	54		

Notes:

(1) The limit for radiated test was performed according to FCC PART 15B.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average
band)	T MINZ / T MINZ TOF FEAK, T MINZ / THZ TOF AVERAGE

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

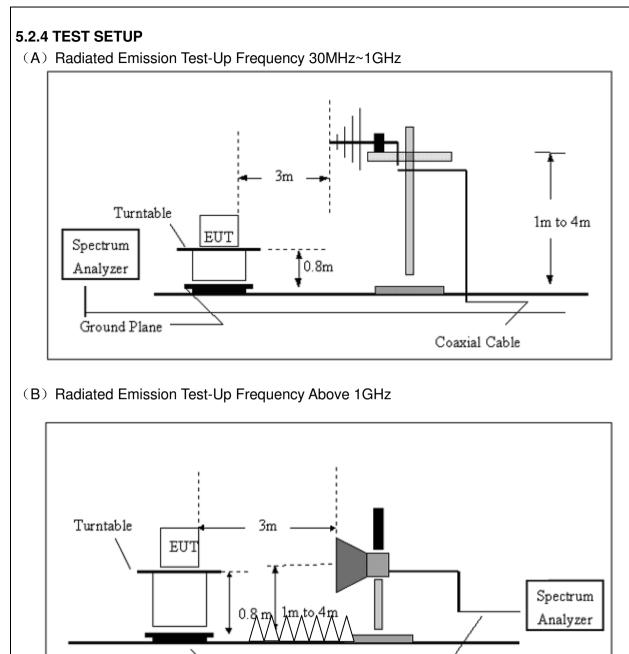
5.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.2.3 DEVIATION FROM TEST STANDARD

No deviation



5.2.5 EUT OPERATING CONDITIONS

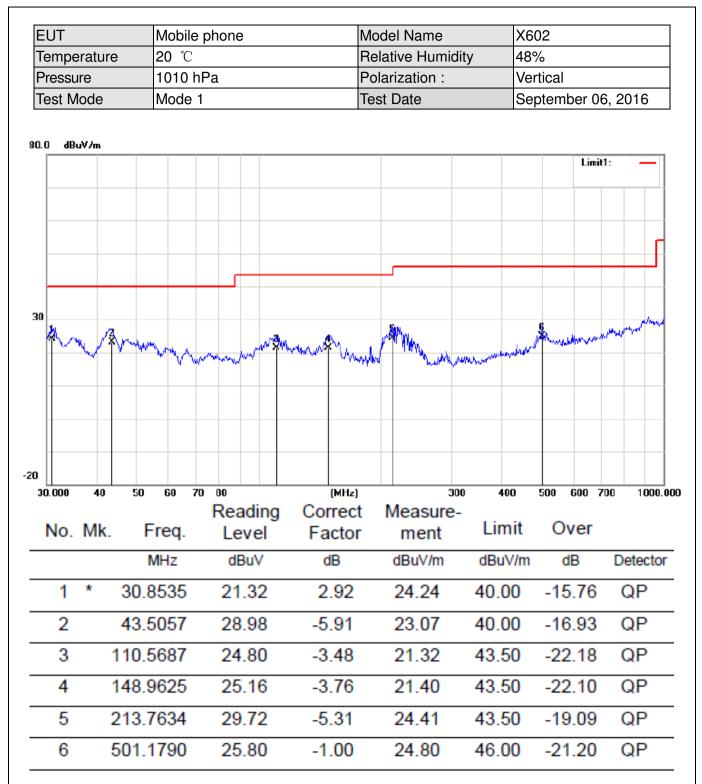
Ground Plane

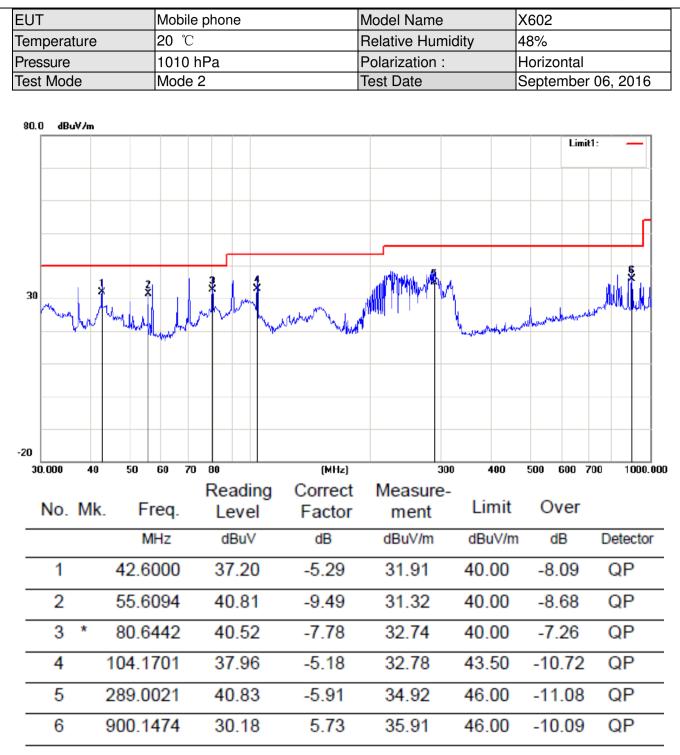
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

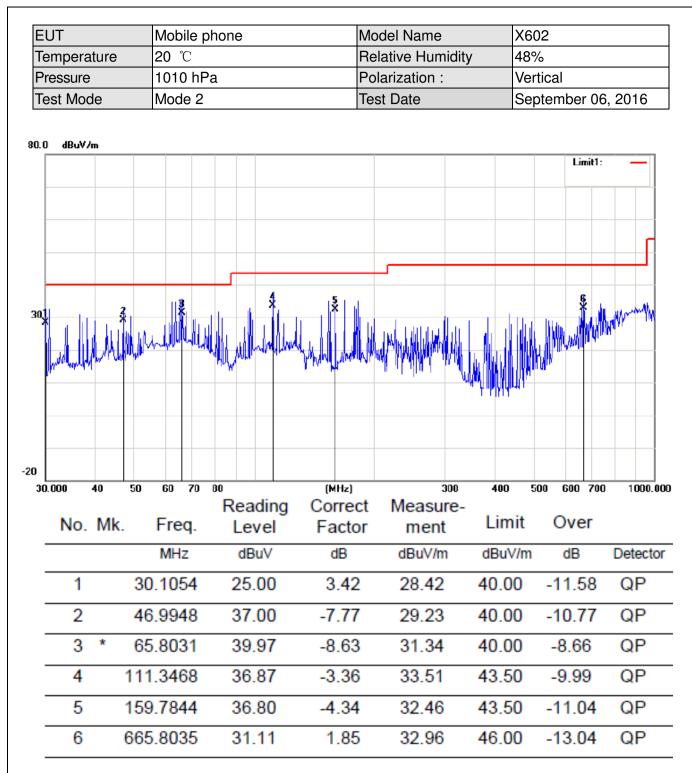
Coaxial Cable

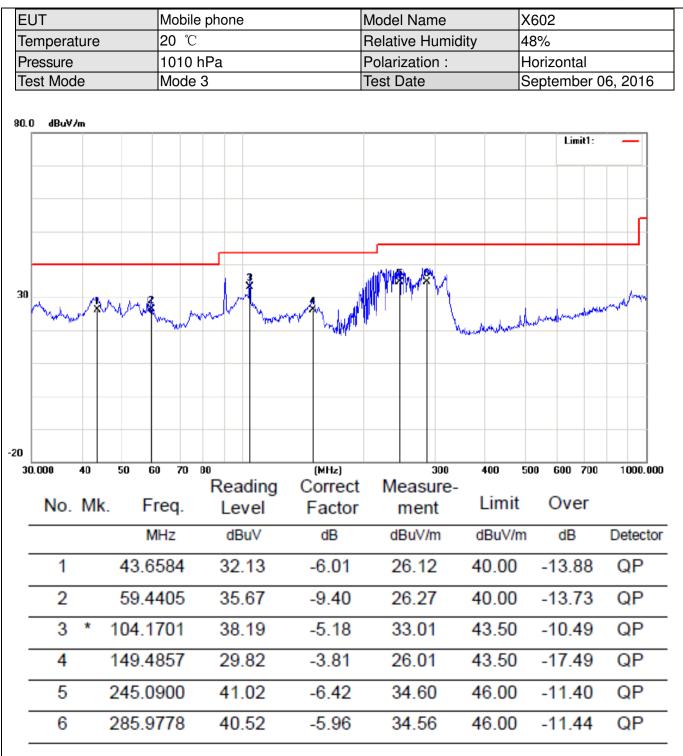
5.2.5.1 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

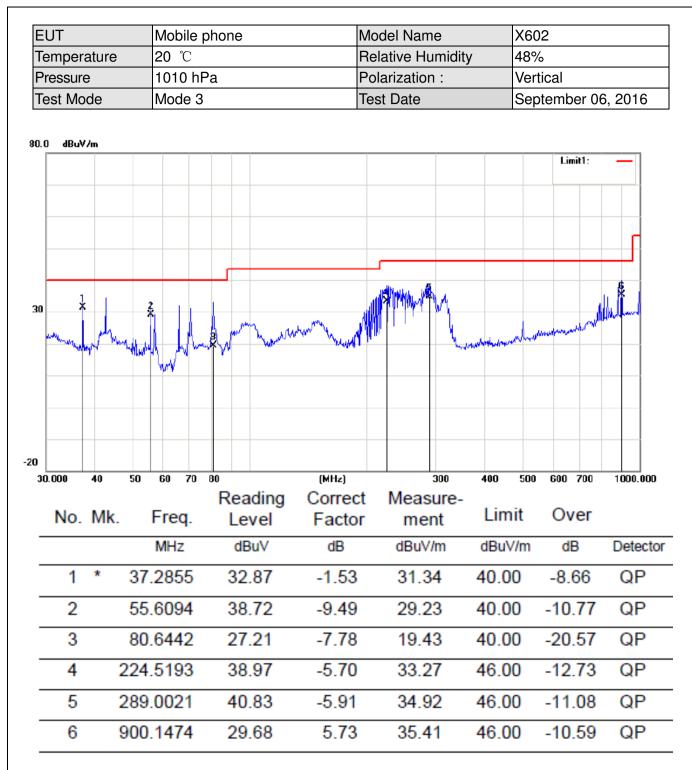
EUT			N	Model Name		X602	
Temperature	perature 20 °C		R	Relative Humidity		48%	
Pressure	re 1010 hPa		P	Polarization :		Horizontal	
Fest Mode	ode Mode 1		Test Date		S	September 06, 2016	
10.0 dBuV/m			4	.5		Limit1:	
rstrutukum untuku	Why Why and a way way	nanan kanalarin kanalarin Mananan kanalarin kana	AVT MANA	an al second and a s	utor where we are a second and	how material	
30.000 40 No. Mk.		Reading Level	(MHz) Correct Factor	Measure- ment	400 Limit	500 600 700 Over	
0 40	50 60 70	BO Reading	(MHz) Correct	300 Measure-	400	500 600 700 Over	
30.000 40	50 60 70 Freq.	BO Reading Level	(MHz) Correct Factor	300 Measure- ment	400 Limit	500 600 700 Over	1000.0
30.000 40 No. Mk.	50 60 70 Freq. MHz	^{₿0} Reading Level dBuV	(MHz) Correct Factor dB	300 Measure- ment dBuV/m	400 Limit dBuV/m	500 600 700 Over n dB	1000.0 Detector
No. Mk.	50 60 70 Freq. MHz 31.6202	^{®®} Reading Level dBu∨ 16.77	(MHz) Correct Factor dB 2.40	300 Measure- ment dBuV/m 19.17	400 Limit dBuV/m 40.00	500 600 700 Over 0 dB -20.83	1000.0 Detector
30.000 40 No. Mk. 1 * 2 3 1	50 60 70 Freq. MHz 31.6202 55.0274	^{₽0} Reading Level dBu∨ 16.77 23.36	(MHz) Correct Factor dB 2.40 -9.50	300 Measure- ment dBuV/m 19.17 13.86	400 Limit dBuV/m 40.00 40.00	500 600 700 Over 0 dB -20.83 -26.14	1000.0 Detector QP QP
0 30.000 40 No. Mk. 1 * 2 3 1 4 1	50 60 70 Freq. MHz 31.6202 55.0274 129.0146	^{₽0} Reading Level dBuV 16.77 23.36 19.74	(MHz) Correct Factor dB 2.40 -9.50 -2.18	300 Measure- ment dBuV/m 19.17 13.86 17.56	400 Limit dBuV/m 40.00 40.00 43.50	500 600 700 Over 0 dB -20.83 -26.14 -25.94	Detector QP QP QP

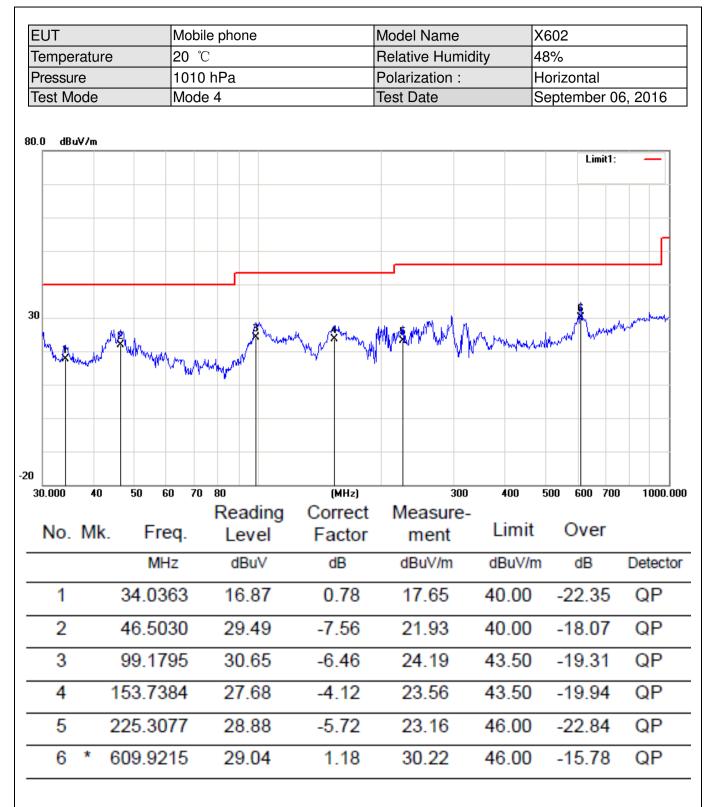


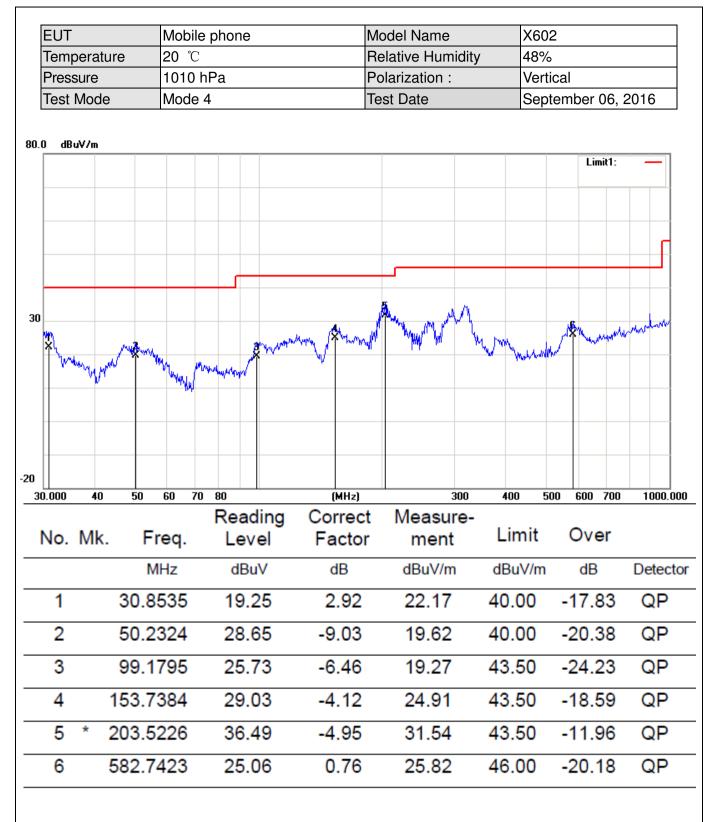


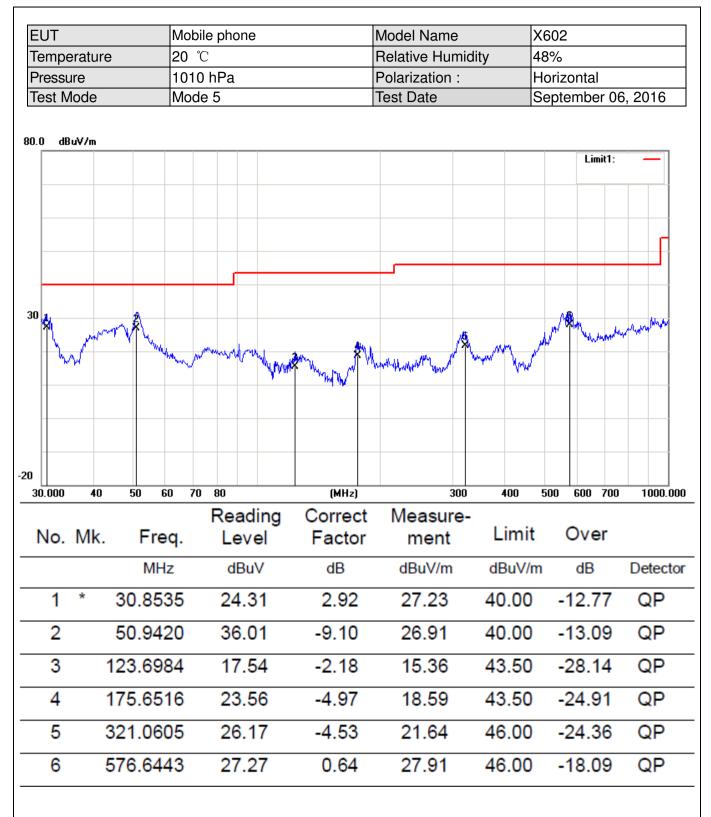


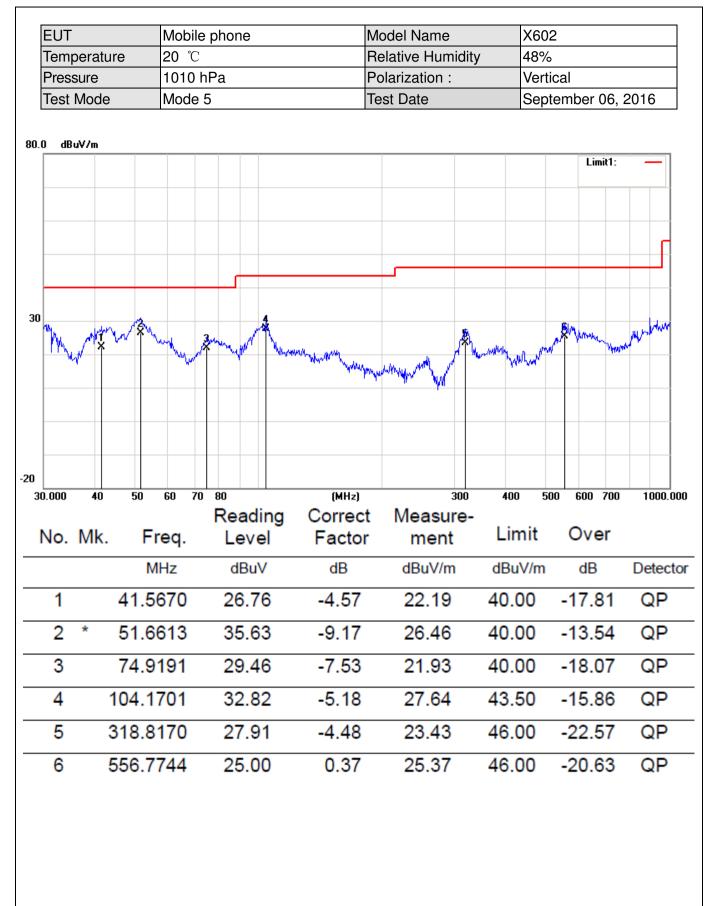












5.2.5.2 TEST RESULTS (1GHZ TO 6GHZ)

EUT	Mobile phone	Model Name	X602
Temperature	20 (*	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1
Test Date	September 06, 2016		

Freq.	Ant.	Emission		Limit		Over(dB)	
(MHz)	Pol.	Level(dBuV)	3m(dBuV/m)			
	H/V	PK	AV	PK AV		PK	AV
1632.45	V	59.90	41.33	74	54	-14.10	-12.67
2829.27	V	59.29	40.60	74 54		-14.71	-13.40
1684.52	Н	58.04	40.42	74	54	-15.96	-13.58
2831.6	Н	59.44	40.44	74	54	-14.56	-13.56

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	Mobile phone	Model Name	X602
Temperature	20 (Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 2
Test Date	September 06, 2016		

Freq.	Ant.	Emission		Limit		Over(dB)	
(MHz)	Pol.	Level(dBuV)	3m(dBuV/m)		3m(dBuV/m)	
	H/V	PK	AV	PK AV		PK	AV
1583.35	V	59.54	41.38	74	54	-14.46	-12.62
2641.52	V	59.70	40.44	74	54	-14.30	-13.56
1628.42	Н	59.56	40.16	74	54	-14.44	-13.84
2810.39	Н	58.91	39.91	74	54	-15.09	-14.09

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	Mobile	Mobile phone			Model Name		X602	X602	
Temperature	20 ℃				Relative Humidity		48%		
Pressure	1010 h	Pa	Pa			Node	Mode 3		
Test Date	Septer	nber 06, 201	, 2016						
Freq. (MHz)	Ant. Pol.		ssion (dBuV)	Limit 3m(dBuV/m)		Over(dB)			
х <i>ў</i>	H/V	PK	AV	Pł	PK ÁV		PK	AV	
1577.35	V	58.94	39.80	74	ł	54	-15.06	-14.20	
2652.38	V	58.68	40.86	74	ŀ	54	-15.32	-13.14	
1699.33	Н	59.87	39.34	39.34 74		54	-14.13	-14.66	
2739.42	Н	59.59	40.59	74	ŀ	54	-14.41	-13.41	

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	Mobile phone	Model Name	X602
Temperature		Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 4
Test Date	September 06, 2016		

Freq.	Ant.	Emission		Limit		Over(dB)	
(MHz)	Pol.	Level(dBuV)	3m(dBuV/m)			
	H/V	PK	AV	PK AV		PK	AV
1583.35	V	58.67	40.79	74	54	-15.33	-13.21
2641.52	V	59.95	40.34	74	54	-14.05	-13.66
1628.42	Н	58.99	39.26	74	54	-15.01	-14.74
2810.39	Н	59.30	40.30	74	54	-14.70	-13.70

Remark:

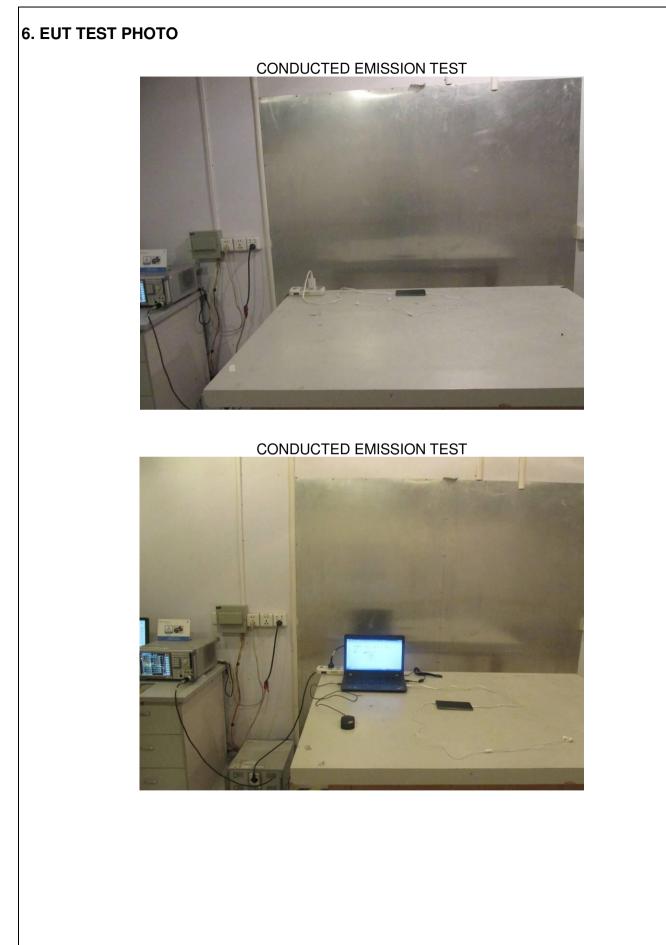
All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

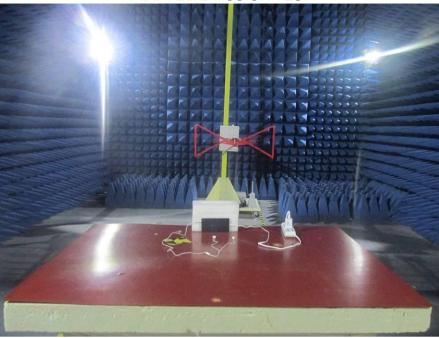
EUT	Mobile	Mobile phone			Model Name		X602	X602	
Temperature	20 ℃	0 °C			Relative Humidity		48%		
Pressure	1010 h	Pa ⁻			Test Mode		Mode 5		
Test Date	Septer	nber 06, 201	6						
Freq. (MHz)	Ant. Pol.		Emission Level(dBuV)		Limit (dBuV/m)		Over(dB)		
()	H/V	PK	ÂV	Pk	· ·	ÁV	PK	AV	
1577.35	V	58.79	41.68	74		54	-15.21	-12.32	
2652.38	V	59.98	40.51	74	-	54	-14.02	-13.49	
1699.33	Н	59.88	40.11	74	-	54	-14.12	-13.89	
2739.42	Н	59.15	40.15	74	-	54	-14.85	-13.85	

Remark:

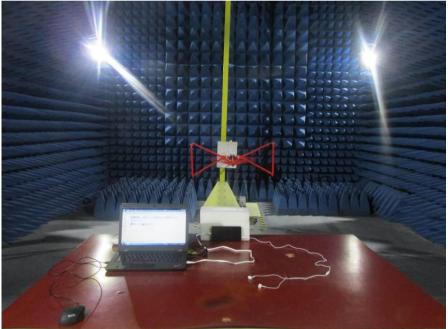
All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier. All the x/y/z orientation has been investigated, and only worst case is presented in this report.



RADIATED EMISSION TEST

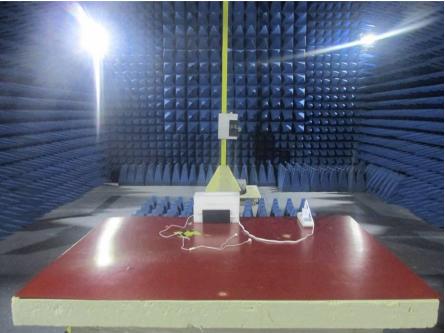


RADIATED EMISSION TEST

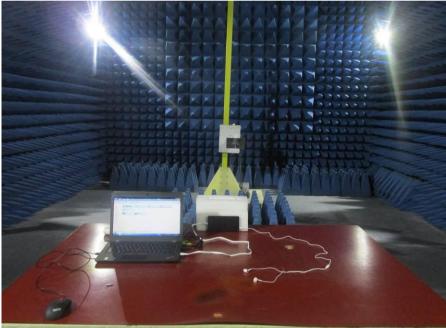


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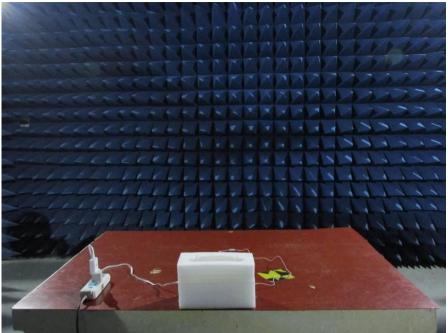
RADIATED EMISSION TEST



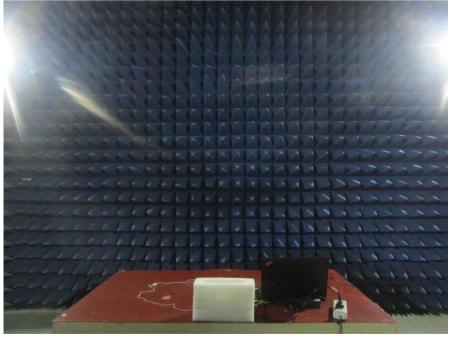
RADIATED EMISSION TEST



RADIATED EMISSION TEST



RADIATED EMISSION TEST





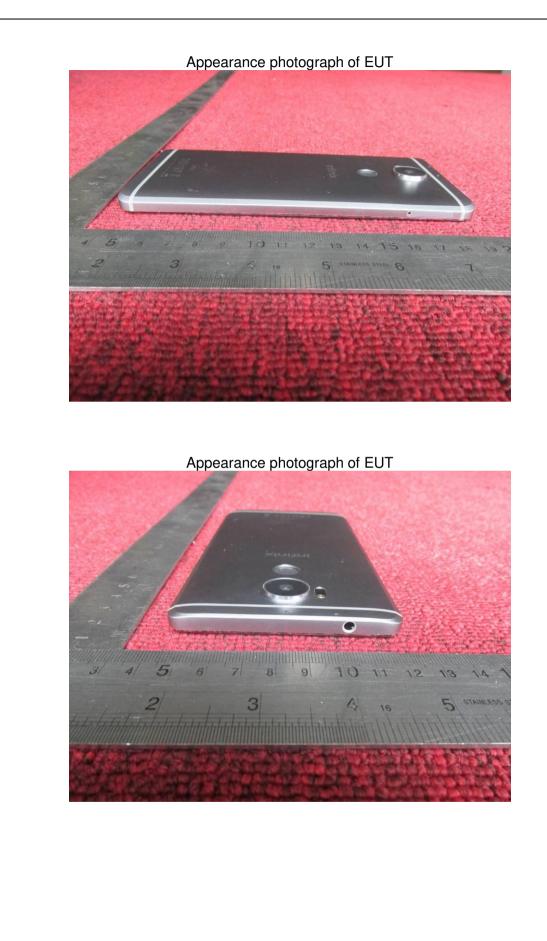
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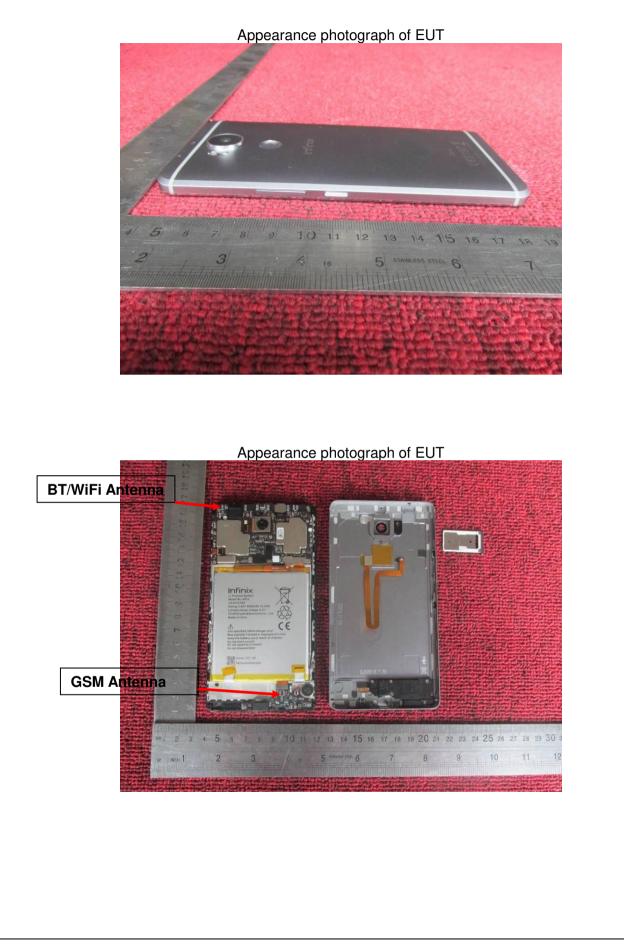
Appearance photograph of EUT



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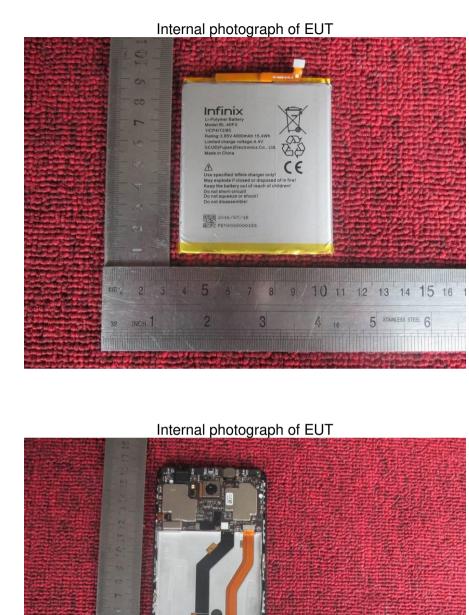


Report No.: FCC16093968A-4

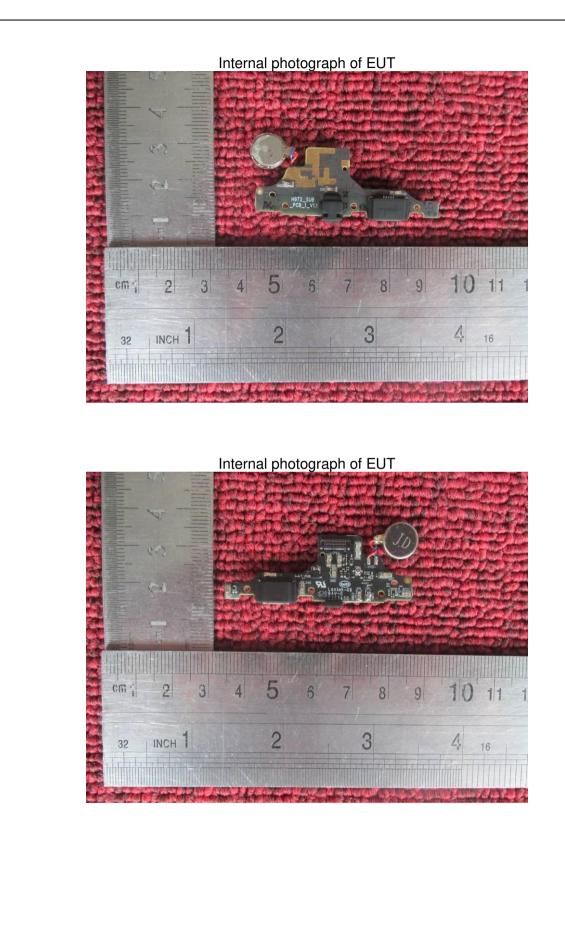


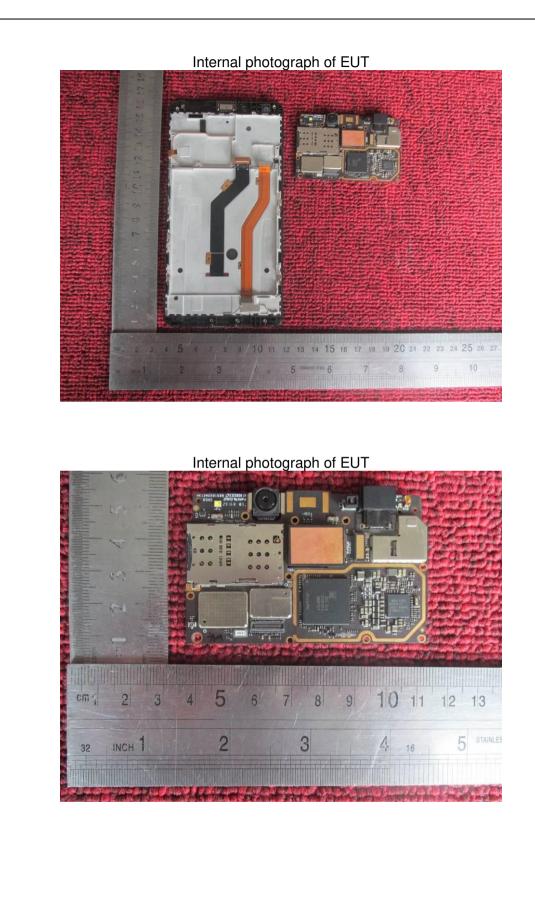
Internal photograph of EUT

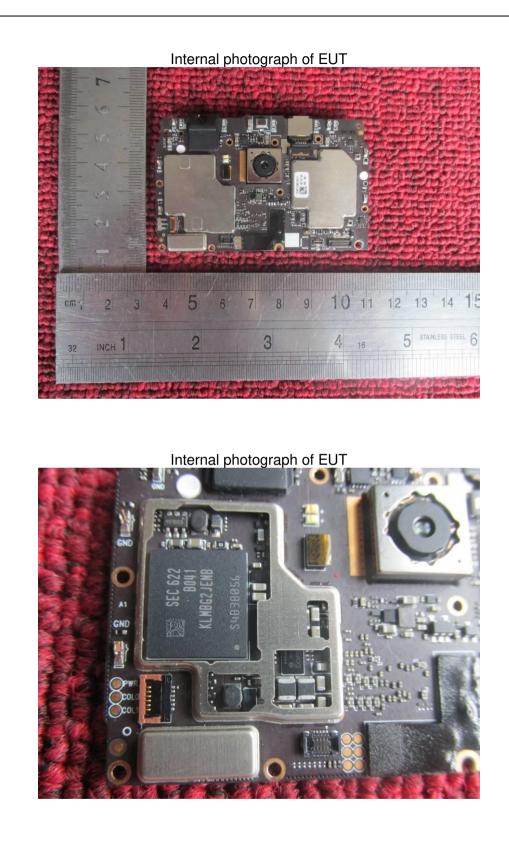




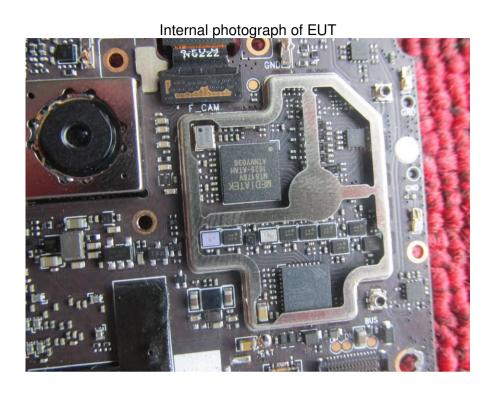




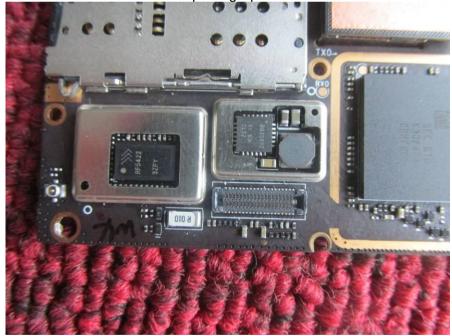


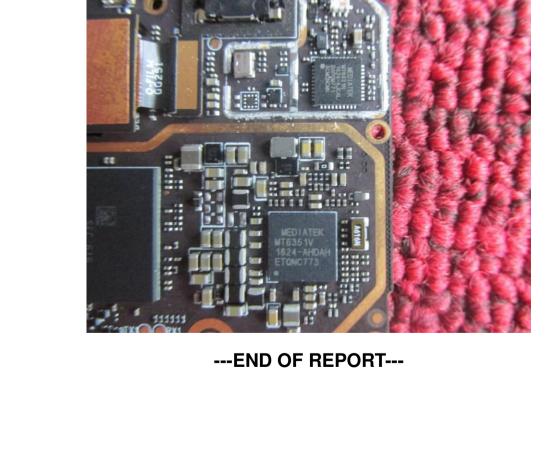


Report No.: FCC16093968A-4

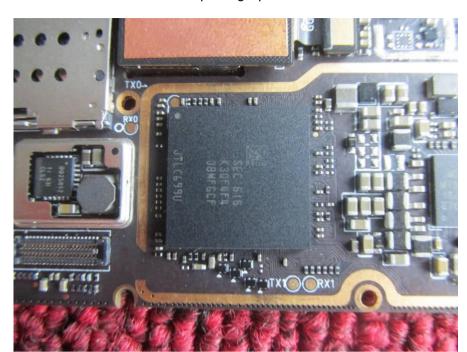


Internal photograph of EUT





Internal photograph of EUT



Internal photograph of EUT