



# FCC Report

**Application Purpose** : Original grant  
**Applicant Name:** : INFINIX MOBILITY LIMITED  
**FCC ID** : 2AIZN-X555  
**Equipment Type** : Mobile phone  
**Model Name** : X555  
**Report Number** : FCC16083918A-4  
**Standard(S)** : FCC Part 15 Subpart B  
**Date Of Receipt** : August 19, 2016  
**Date Of Issue** : September 29, 2016

**Test By** :   
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**Reviewed By** :   
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518000China. **Registration Number: 588523**

**REPORT REVISE RECORD**

<b>Report Version</b>	<b>Revise Time</b>	<b>Issued Date</b>	<b>Valid Version</b>	<b>Notes</b>
V1.0	/	September 29, 2016	Valid	Original Report
V1.1	/	October 15, 2016	Valid	Original Report

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**1. GENERAL INFORMATION**

Test Model	X555
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	<b>Infinix</b>
Hardware	V2.1
Software	X555-H538B1-M-160721V12
Battery information:	Li-ion Battery : BL-32AX Voltage: 3.85V Capacity: 3200mAh/3250mAh(min/typ) Limited Charge Voltage: 4.5V
Adapter Information:	Adapter: CQ-18KX Input: AC 100-240V 50/60Hz 600mA Output: DC 5V-6V 3A; 6V-9V 2A; 9V-12V 1.5A
Data of receipt	August 19, 2016
Date of test	August 19, 2016 to September 25, 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,BI 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 expanded 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	$\pm 3.2\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(<1G)	$\pm 4.7\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.7\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

## 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.

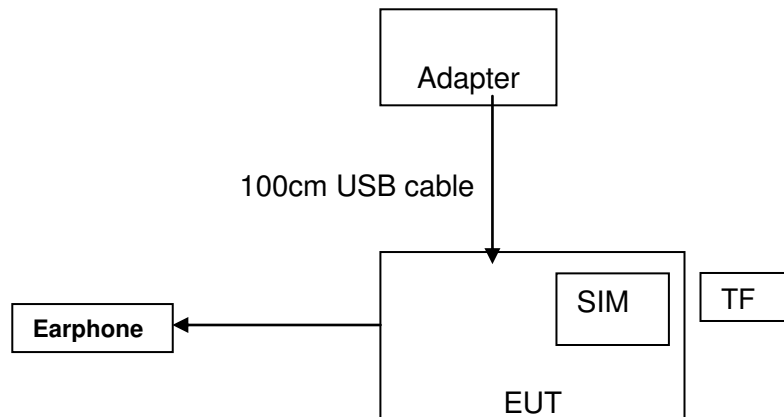
Pretest Mode	Description
Mode 1	Video Recording
Model 2	Video Playing
Mode 3	Exchange data with computer
Mode 4	GPS
Mode 5	FM

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

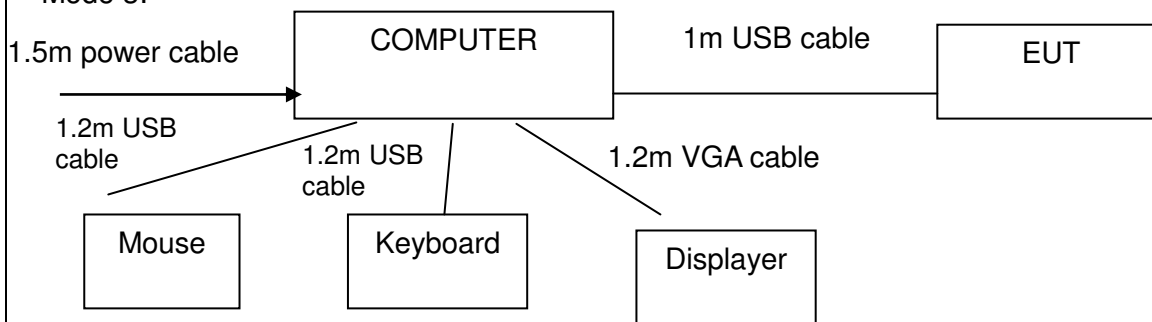
## 2.3 CONFIGURATION OF SYSTEM UNDER TEST

Mode 1&2:



(EUT: Mobile phone)

Mode 3:



(EUT: Mobile phone)

I/O Port of EUT			
I/O Port Type	Q'TY	Cable	Tested with
Power	1	1m USB cable, unshielded	1
Earphone	1	1m USB cable, unshielded	1

## 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	CT	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 (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
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

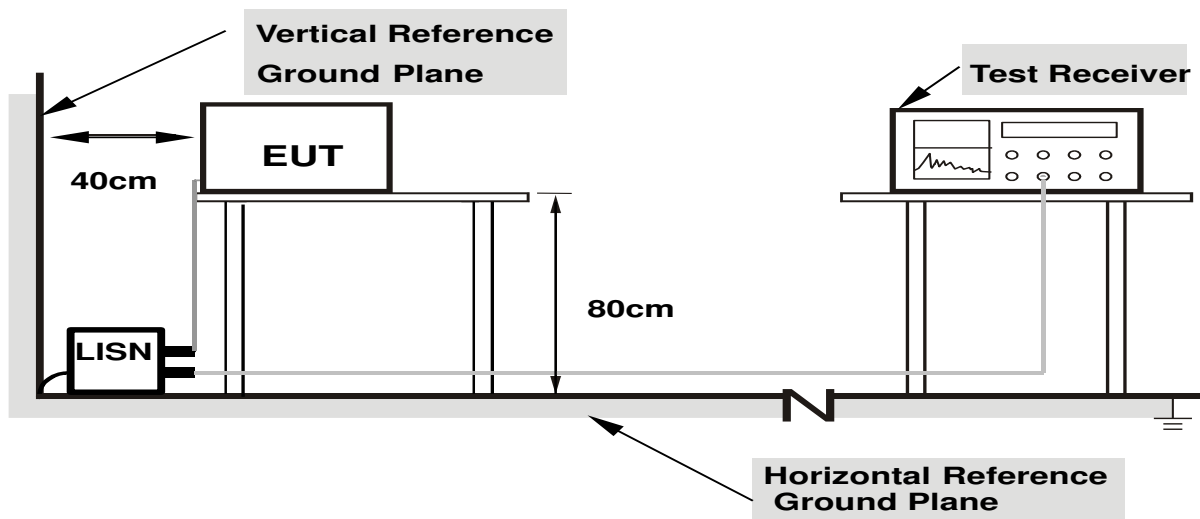
### 5.1.2 TEST PROCEDURE

- 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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



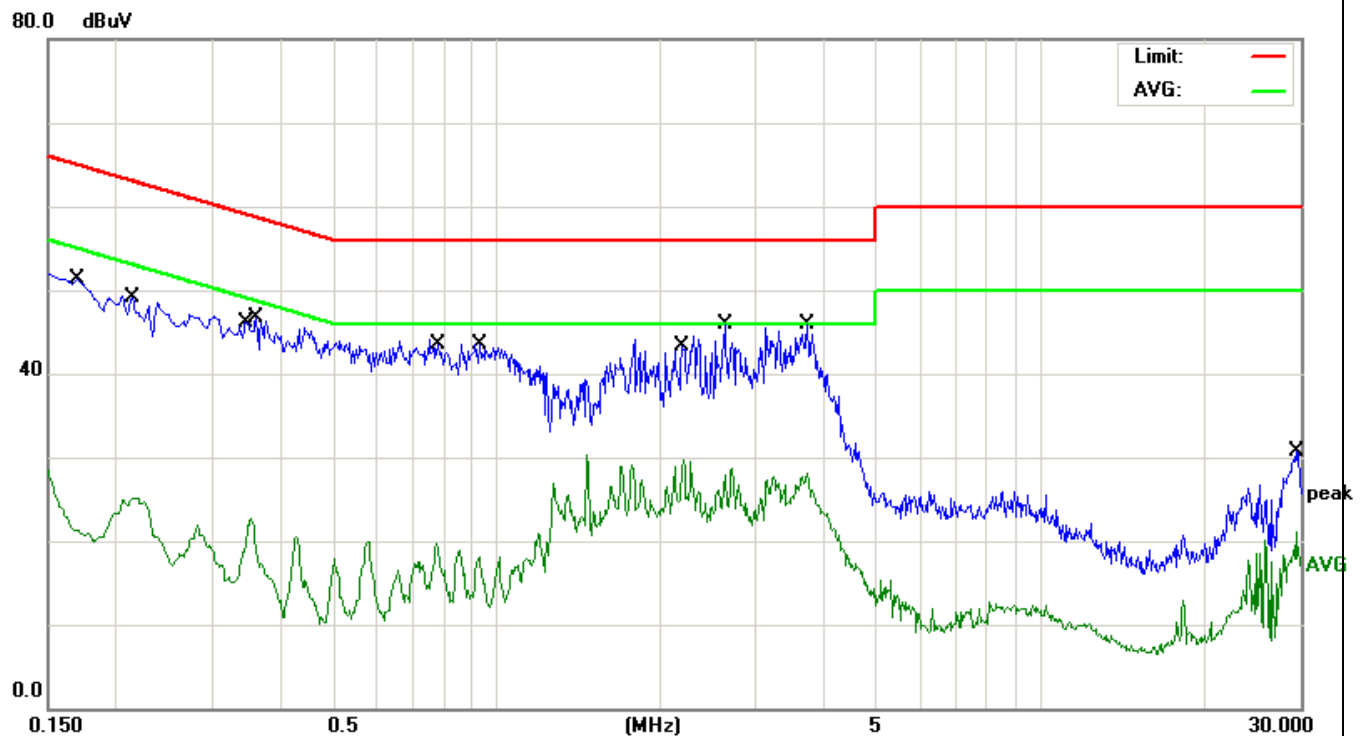
**Note: 1.Support units were connected to second LISN.  
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

### 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.

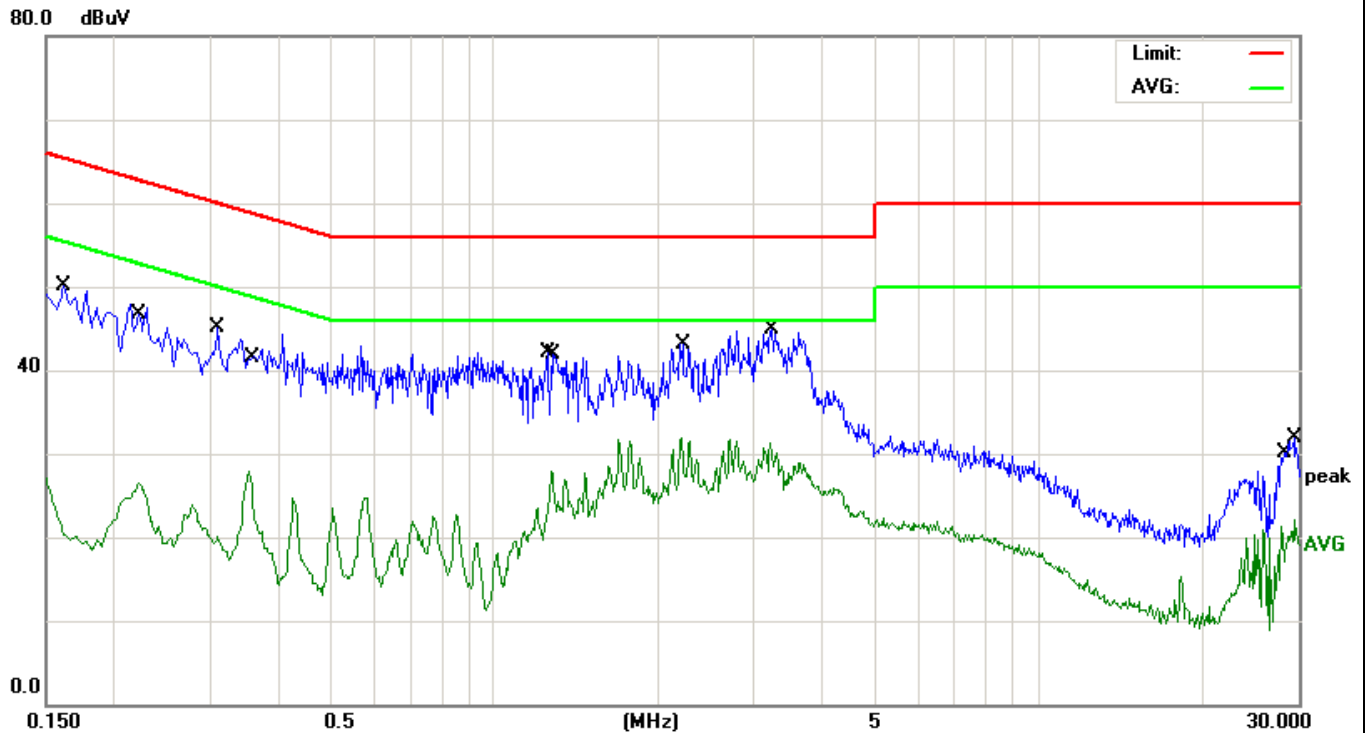
### 5.1.6 TEST RESULTS

EUT	Mobile phone	Model Name	X555
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	August 23, 2016	Test Mode	Mode 1



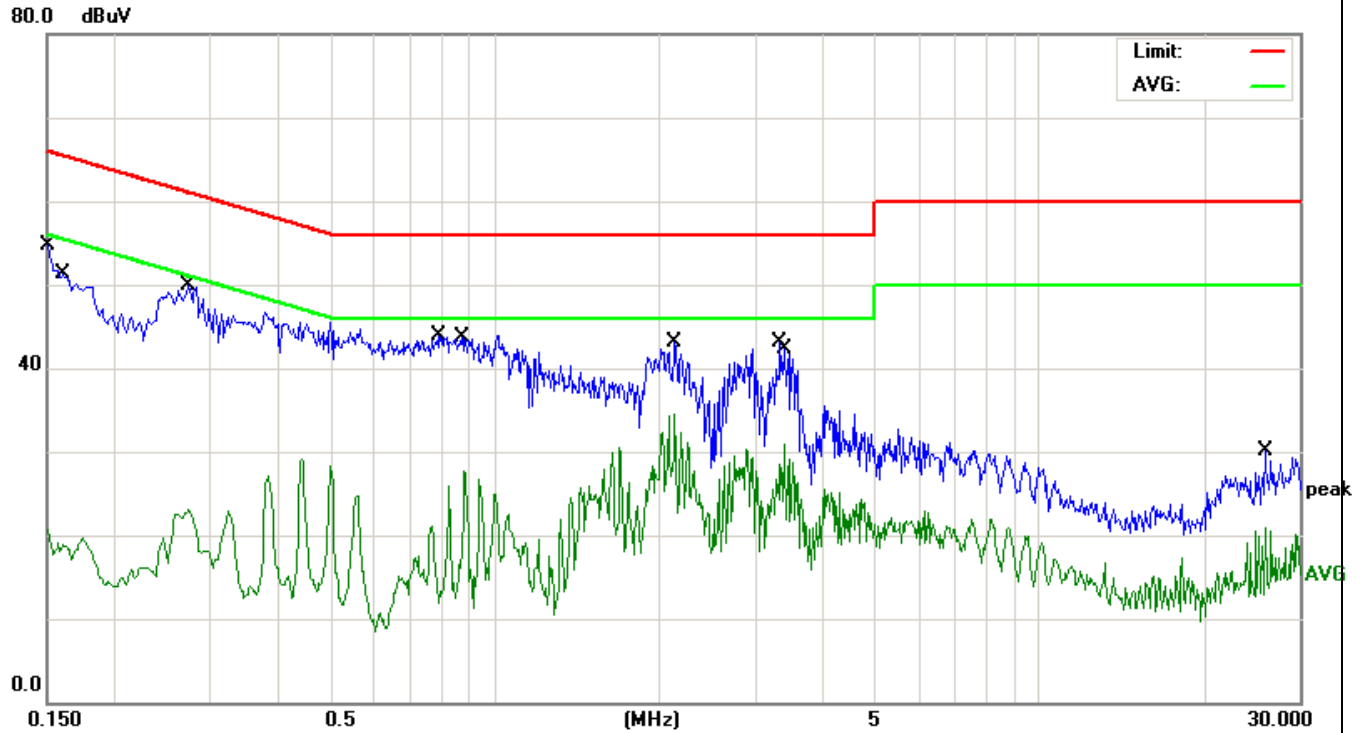
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1700	40.82	10.44	51.26	64.96	-13.70	QP
2		0.2140	14.63	10.43	25.06	53.04	-27.98	AVG
3		0.3540	12.19	10.42	22.61	48.87	-26.26	AVG
4		0.3620	36.23	10.42	46.65	58.68	-12.03	QP
5		0.7780	9.38	10.37	19.75	46.00	-26.25	AVG
6		0.9340	33.24	10.35	43.59	56.00	-12.41	QP
7		2.2060	19.36	10.29	29.65	46.00	-16.35	AVG
8	*	2.6260	35.63	10.28	45.91	56.00	-10.09	QP
9		3.7340	35.65	10.26	45.91	56.00	-10.09	QP
10		3.7340	17.88	10.26	28.14	46.00	-17.86	AVG
11		29.4100	20.51	10.11	30.62	60.00	-29.38	QP
12		29.4100	10.98	10.11	21.09	50.00	-28.91	AVG

EUT	Mobile phone	Model Name	X555
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	August 23, 2016	Test Mode	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1620	39.56	10.44	50.00	65.36	-15.36	QP
2		0.2220	16.11	10.43	26.54	52.74	-26.20	AVG
3		0.3100	34.74	10.42	45.16	59.97	-14.81	QP
4		0.3540	17.49	10.42	27.91	48.87	-20.96	AVG
5		1.2500	31.72	10.33	42.05	56.00	-13.95	QP
6		1.2740	17.49	10.33	27.82	46.00	-18.18	AVG
7		2.2020	21.58	10.29	31.87	46.00	-14.13	AVG
8		2.2180	32.73	10.29	43.02	56.00	-12.98	QP
9		3.2220	20.99	10.27	31.26	46.00	-14.74	AVG
10	*	3.2260	34.67	10.27	44.94	56.00	-11.06	QP
11		27.9420	11.26	10.11	21.37	50.00	-28.63	AVG
12		29.4140	21.86	10.11	31.97	60.00	-28.03	QP

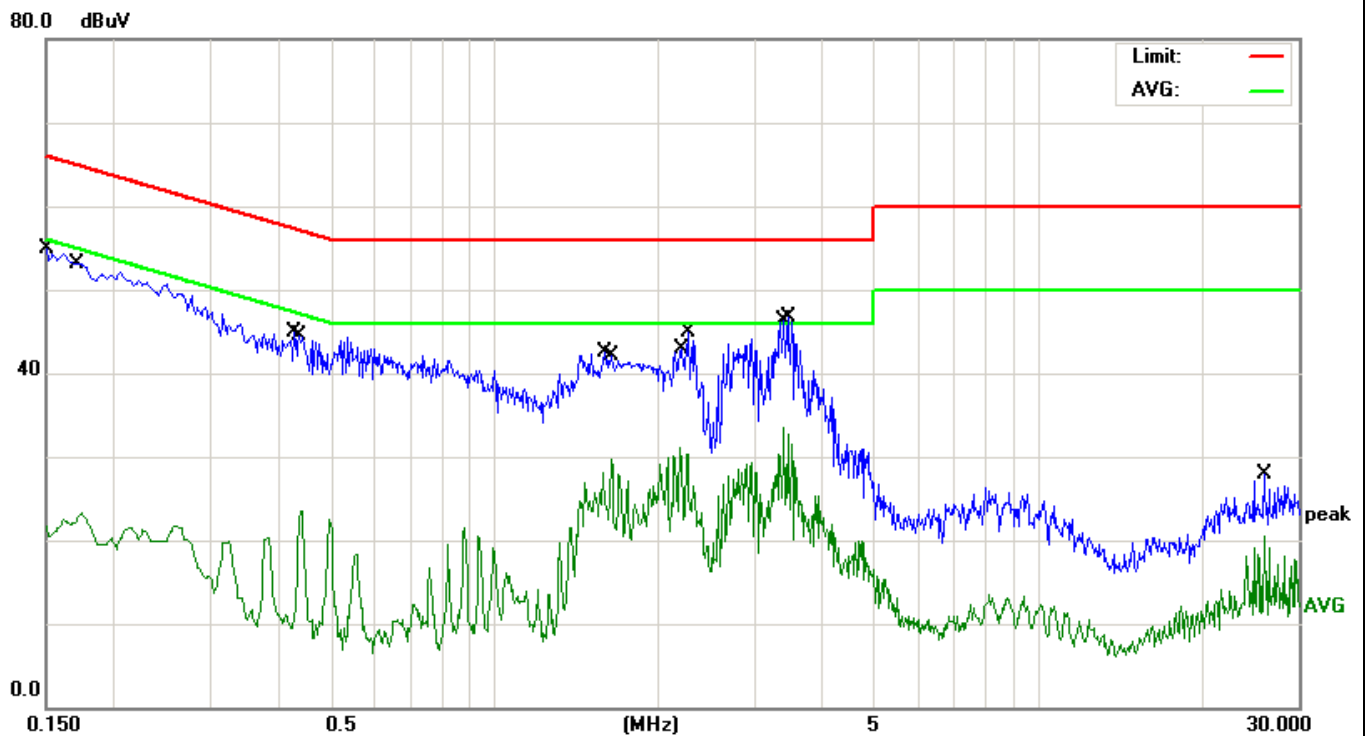
EUT	Mobile phone	Model Name	X555
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	August 23, 2016	Test Mode	Mode 2



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1516	9.40	10.44	19.84	55.91	-36.07	AVG
2		0.1607	40.89	10.44	51.33	65.42	-14.09	QP
3	*	0.2740	39.56	10.43	49.99	60.99	-11.00	QP
4		0.2740	12.65	10.43	23.08	50.99	-27.91	AVG
5		0.7860	33.54	10.37	43.91	56.00	-12.09	QP
6		0.8780	17.40	10.35	27.75	46.00	-18.25	AVG
7		2.1380	32.83	10.29	43.12	56.00	-12.88	QP
8		2.1380	24.12	10.29	34.41	46.00	-11.59	AVG
9		3.3420	32.79	10.26	43.05	56.00	-12.95	QP
10		3.3980	20.72	10.26	30.98	46.00	-15.02	AVG
11		25.9300	20.04	10.10	30.14	60.00	-29.86	QP
12		25.9300	10.87	10.10	20.97	50.00	-29.03	AVG

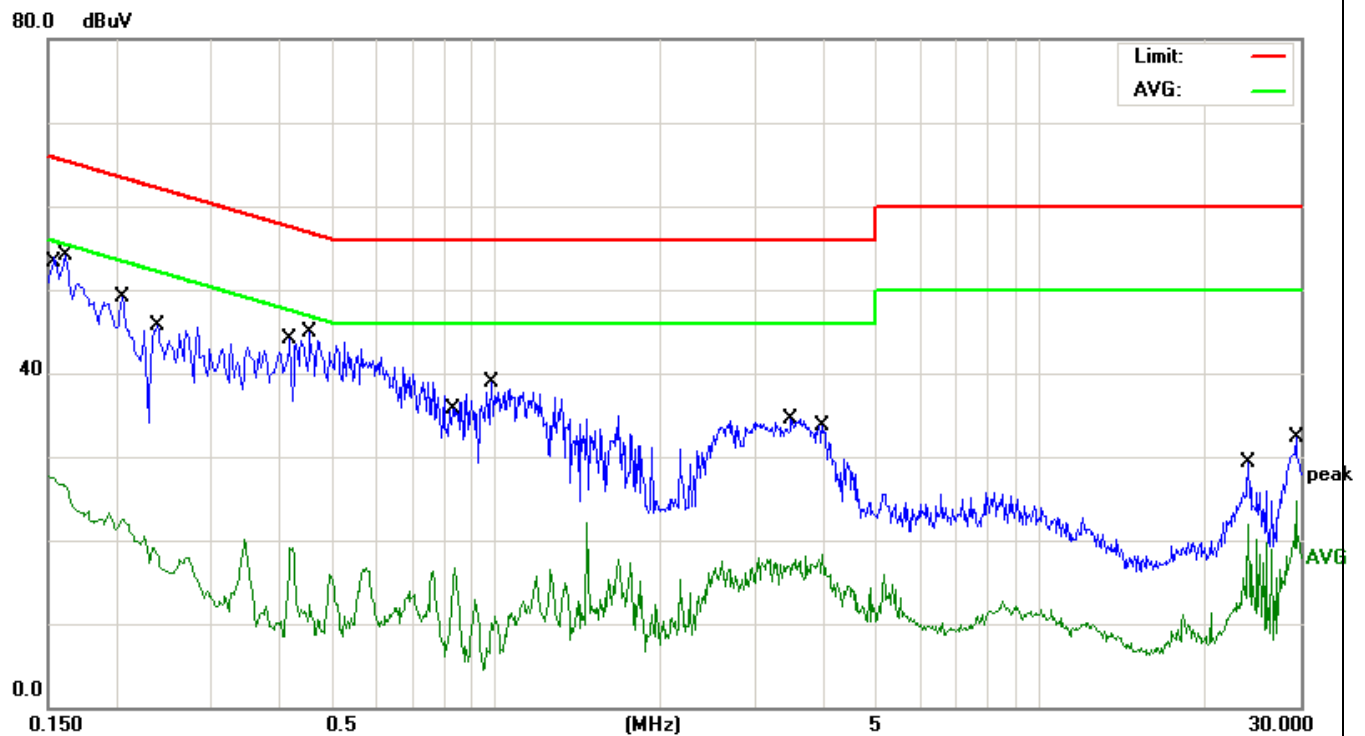


EUT	Mobile phone	Model Name	X555
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	August 23, 2016	Test Mode	Mode 2



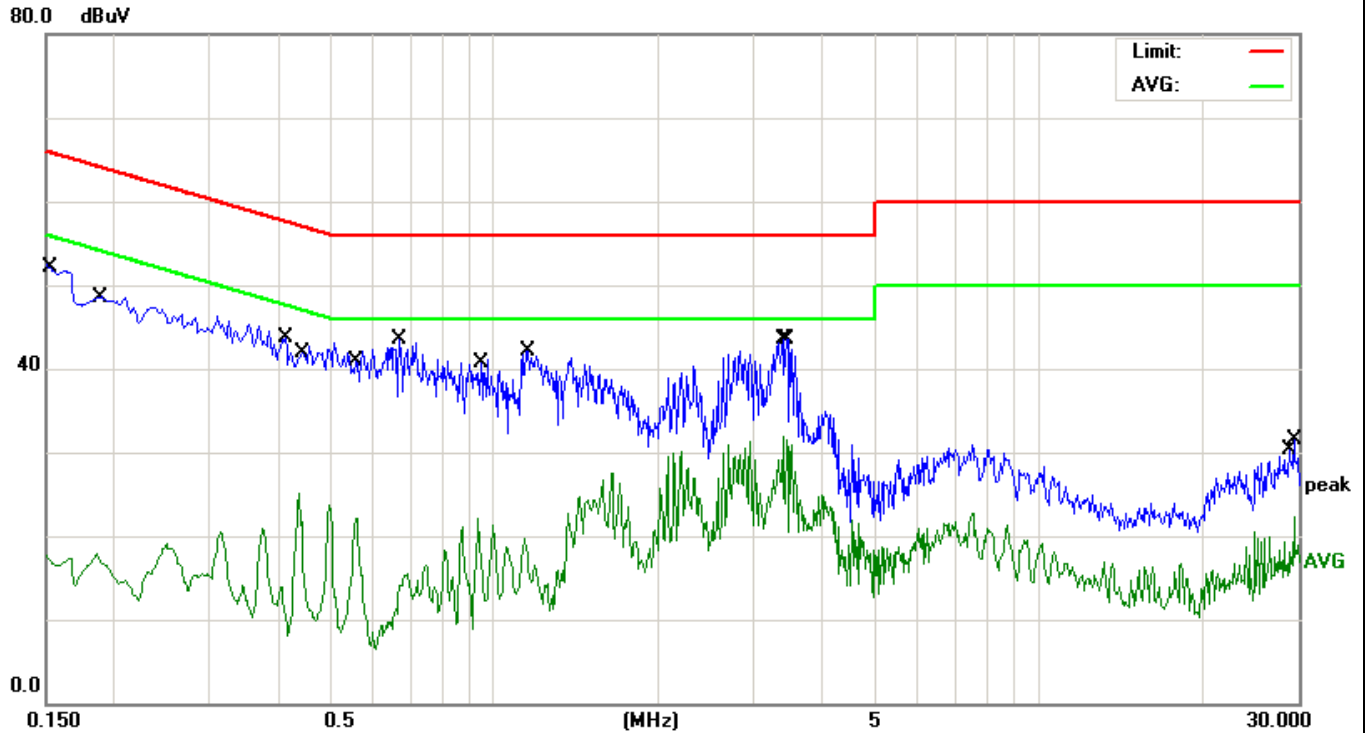
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV	dBuV	dB	
1		0.1508	44.44	10.44	54.88	65.95	-11.07	QP
2		0.1740	12.92	10.44	23.36	54.76	-31.40	AVG
3		0.4300	34.52	10.41	44.93	57.25	-12.32	QP
4		0.4420	13.06	10.41	23.47	47.02	-23.55	AVG
5		1.5940	32.21	10.31	42.52	56.00	-13.48	QP
6		1.6420	19.31	10.31	29.62	46.00	-16.38	AVG
7		2.1940	20.73	10.29	31.02	46.00	-14.98	AVG
8		2.2740	34.69	10.28	44.97	56.00	-11.03	QP
9		3.4020	23.17	10.26	33.43	46.00	-12.57	AVG
10	*	3.4620	36.39	10.26	46.65	56.00	-9.35	QP
11		25.8900	17.83	10.10	27.93	60.00	-32.07	QP
12		25.8900	10.42	10.10	20.52	50.00	-29.48	AVG

EUT	Mobile phone	Model Name	X555
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	August 23, 2016	Test Mode	Mode 3



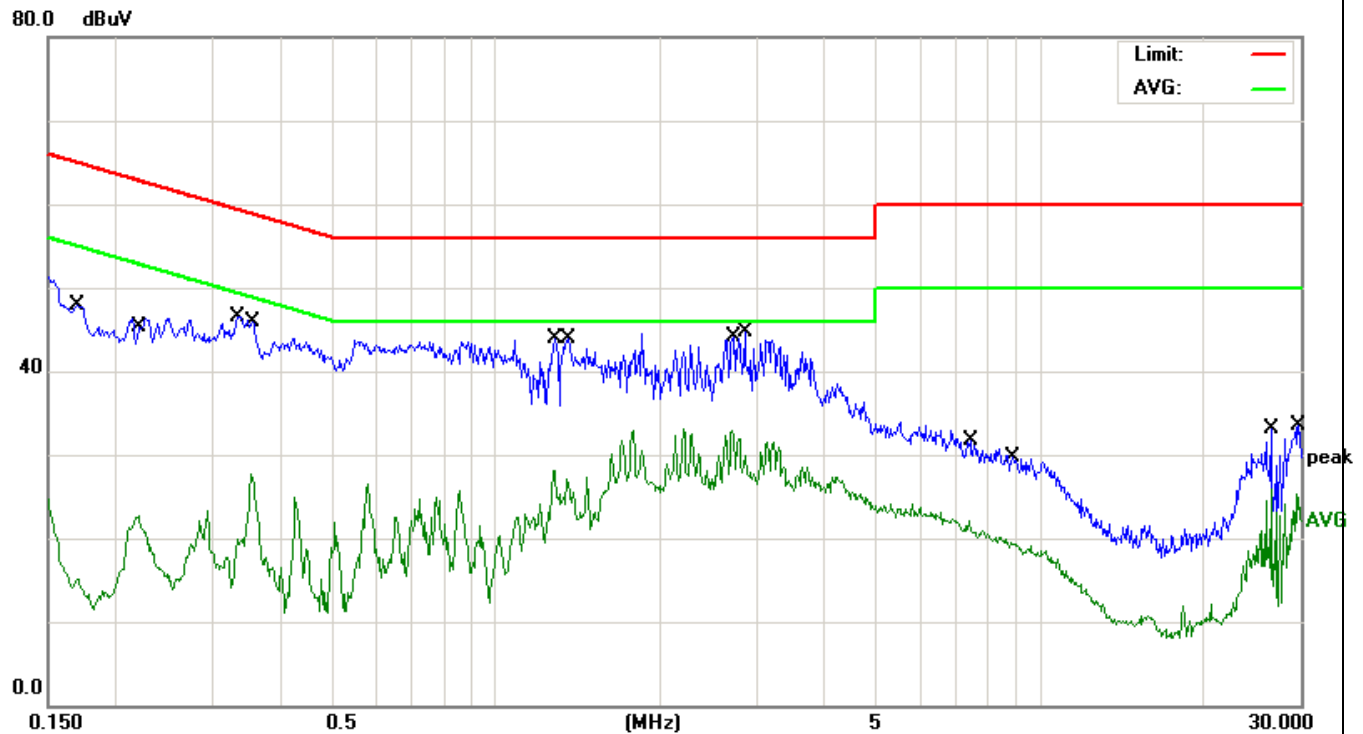
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	17.22	10.44	27.66	55.99	-28.33	AVG
2	*	0.1620	43.61	10.44	54.05	65.36	-11.31	QP
3		0.2072	12.11	10.43	22.54	53.31	-30.77	AVG
4		0.2380	35.18	10.43	45.61	62.16	-16.55	QP
5		0.4220	8.77	10.41	19.18	47.41	-28.23	AVG
6		0.4540	34.43	10.41	44.84	56.80	-11.96	QP
7		0.8380	6.42	10.36	16.78	46.00	-29.22	AVG
8		0.9820	28.52	10.34	38.86	56.00	-17.14	QP
9		3.4900	24.30	10.26	34.56	56.00	-21.44	QP
10		3.9660	8.00	10.25	18.25	46.00	-27.75	AVG
11		24.0340	19.17	10.10	29.27	60.00	-30.73	QP
12		29.4020	14.52	10.11	24.63	50.00	-25.37	AVG

EUT	Mobile phone	Model Name	X555
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	August 23, 2016	Test Mode	Mode 3



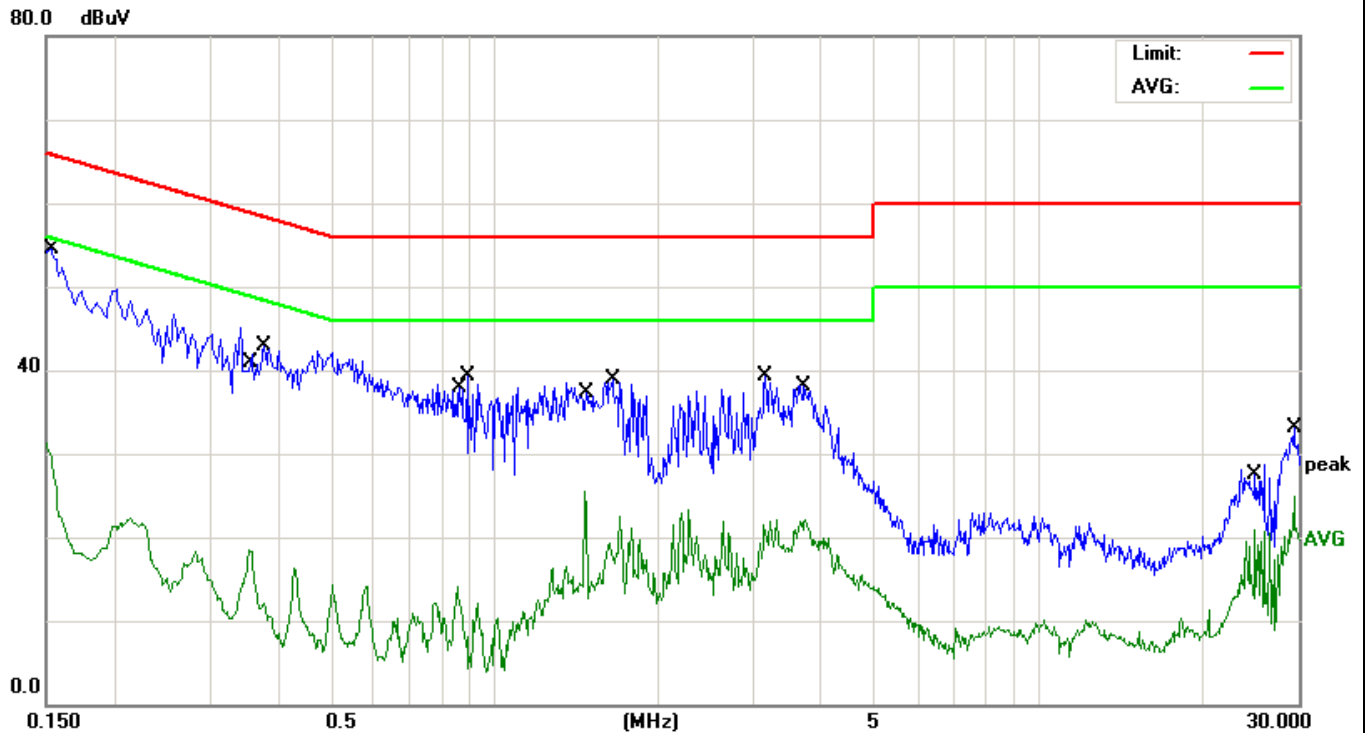
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1539	41.31	10.44	51.75	65.78	-14.03	QP
2		0.1860	7.38	10.44	17.82	54.21	-36.39	AVG
3		0.4140	33.28	10.41	43.69	57.57	-13.88	QP
4		0.4380	14.75	10.41	25.16	47.10	-21.94	AVG
5		0.5580	11.70	10.39	22.09	46.00	-23.91	AVG
6		0.6700	33.07	10.38	43.45	56.00	-12.55	QP
7		0.9340	11.75	10.35	22.10	46.00	-23.90	AVG
8		1.1539	31.78	10.33	42.11	56.00	-13.89	QP
9		3.3860	21.55	10.26	31.81	46.00	-14.19	AVG
10	*	3.4500	33.24	10.26	43.50	56.00	-12.50	QP
11		28.8660	20.18	10.11	30.29	60.00	-29.71	QP
12		29.4260	12.10	10.11	22.21	50.00	-27.79	AVG

EUT	Mobile phone	Model Name	X555
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	August 23, 2016	Test Mode	Mode 4



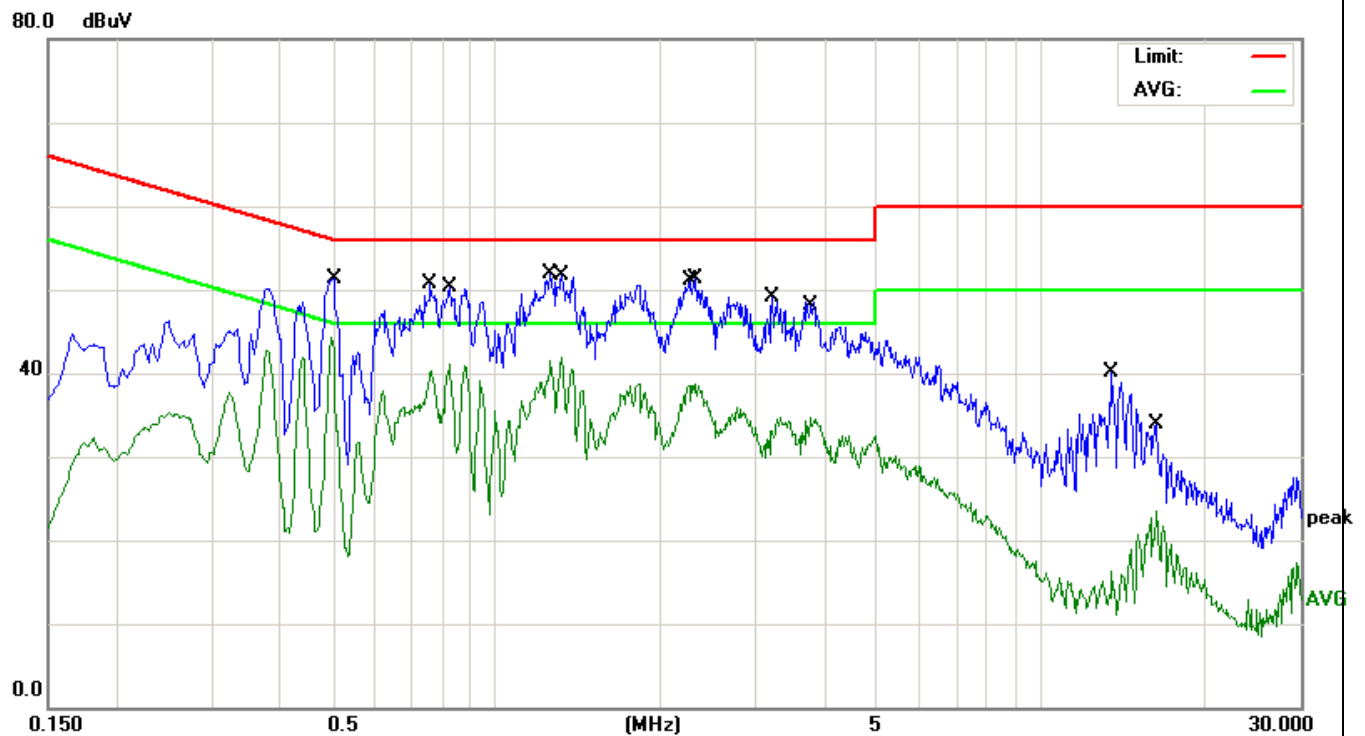
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1700	33.49	10.44	43.93	64.96	-21.03	QP
2		0.2197	12.22	10.43	22.65	52.83	-30.18	AVG
3		0.3339	32.50	10.42	42.92	59.35	-16.43	QP
4		0.3540	17.36	10.42	27.78	48.87	-21.09	AVG
5		1.2740	17.84	10.33	28.17	46.00	-17.83	AVG
6		1.3540	29.56	10.32	39.88	56.00	-16.12	QP
7	*	2.7100	22.63	10.28	32.91	46.00	-13.09	AVG
8		2.8620	30.09	10.27	40.36	56.00	-15.64	QP
9		7.3980	11.98	10.21	22.19	50.00	-27.81	AVG
10		8.9100	14.93	10.20	25.13	60.00	-34.87	QP
11		26.5260	15.79	10.10	25.89	50.00	-24.11	AVG
12		29.7620	19.45	10.11	29.56	60.00	-30.44	QP

EUT	Mobile phone	Model Name	X555
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	August 23, 2016	Test Mode	Mode 4



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	20.87	10.44	31.31	55.99	-24.68	AVG
2	*	0.1532	40.07	10.44	50.51	65.82	-15.31	QP
3		0.3540	8.07	10.42	18.49	48.87	-30.38	AVG
4		0.3780	28.51	10.41	38.92	58.32	-19.40	QP
5		0.8540	3.74	10.36	14.10	46.00	-31.90	AVG
6		0.8940	24.93	10.35	35.28	56.00	-20.72	QP
7		1.4700	15.23	10.32	25.55	46.00	-20.45	AVG
8		1.6460	24.67	10.31	34.98	56.00	-21.02	QP
9		3.1460	25.07	10.27	35.34	56.00	-20.66	QP
10		3.7340	11.82	10.26	22.08	46.00	-23.92	AVG
11		24.9460	10.77	10.10	20.87	50.00	-29.13	AVG
12		29.1620	17.80	10.11	27.91	60.00	-32.09	QP

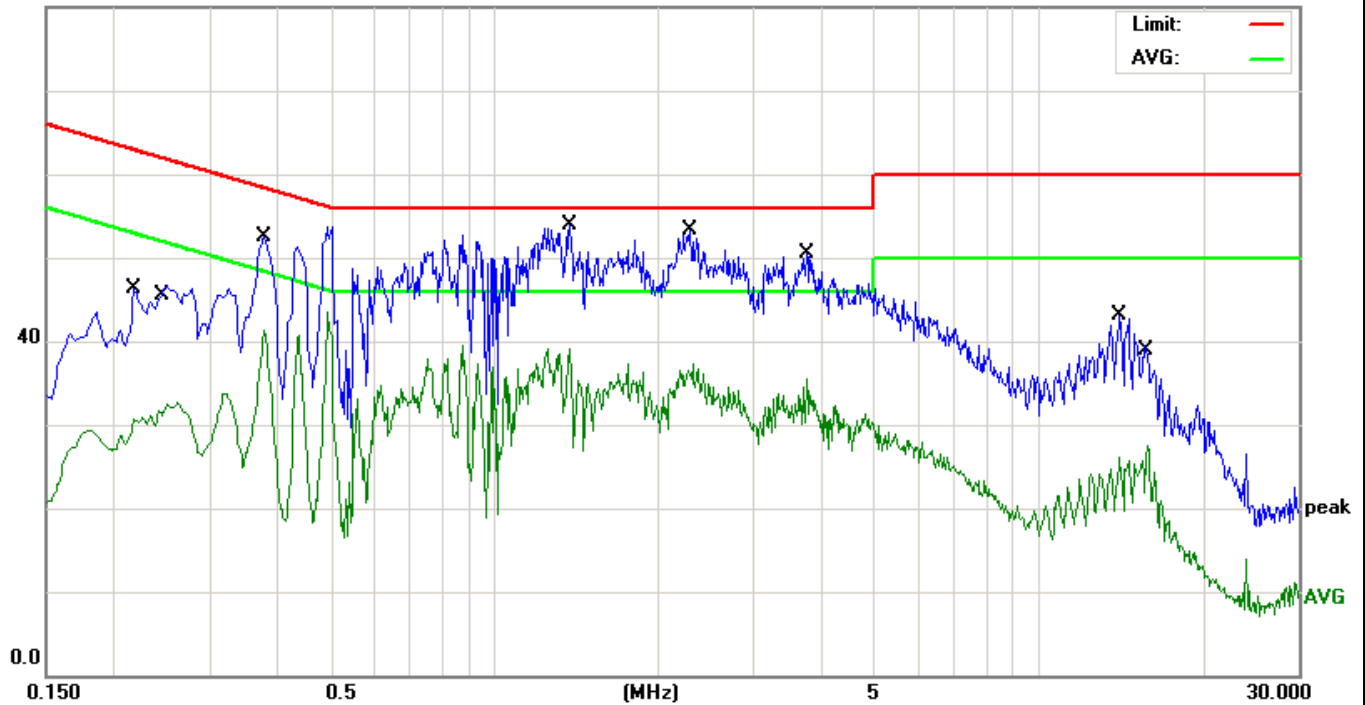
EUT	Mobile phone	Model Name	X555
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	August 23, 2016	Test Mode	Mode 5



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.4979	27.14	10.40	37.54	46.03	-8.49	AVG
2		0.5020	34.92	10.40	45.32	56.00	-10.68	QP
3		0.7580	33.10	10.37	43.47	56.00	-12.53	QP
4		0.8220	30.68	10.36	41.04	46.00	-4.96	AVG
5		1.2620	37.29	10.33	47.62	56.00	-8.38	QP
6	*	1.3180	31.62	10.32	41.94	46.00	-4.06	AVG
7		2.2620	34.93	10.28	45.21	56.00	-10.79	QP
8		2.3300	28.34	10.28	38.62	46.00	-7.38	AVG
9		3.2139	24.84	10.27	35.11	56.00	-20.89	QP
10		3.7660	24.54	10.25	34.79	46.00	-11.21	AVG
11		13.5099	27.15	10.16	37.31	60.00	-22.69	QP
12		16.3939	13.27	10.14	23.41	50.00	-26.59	AVG

EUT	Mobile phone	Model Name	X555
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	August 23, 2016	Test Mode	Mode 5

80.0 dBuV



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2180	29.69	10.43	40.12	62.89	-22.77	QP
2		0.2420	21.27	10.43	31.70	52.02	-20.32	AVG
3		0.3780	36.91	10.41	47.32	58.32	-11.00	QP
4		0.3780	30.86	10.41	41.27	48.32	-7.05	AVG
5		1.3779	35.61	10.32	45.93	56.00	-10.07	QP
6	*	1.3779	28.83	10.32	39.15	46.00	-6.85	AVG
7		2.2860	34.83	10.28	45.11	56.00	-10.89	QP
8		2.3140	26.97	10.28	37.25	46.00	-8.75	AVG
9		3.7500	35.01	10.25	45.26	56.00	-10.74	QP
10		3.7500	25.34	10.25	35.59	46.00	-10.41	AVG
11		14.0940	34.53	10.16	44.69	60.00	-15.31	QP
12		15.8580	17.29	10.14	27.43	50.00	-22.57	AVG

## 5.2 RADIATED EMISSION MEASUREMENT

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

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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 15C.
- (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 band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for 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:

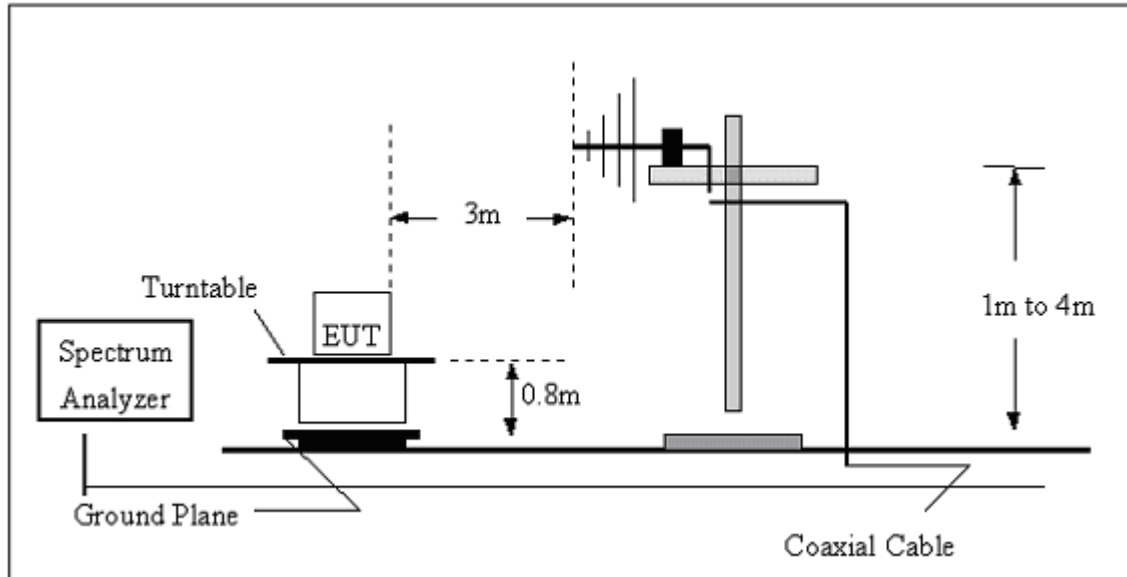
***Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported***

**5.2.3 DEVIATION FROM TEST STANDARD**

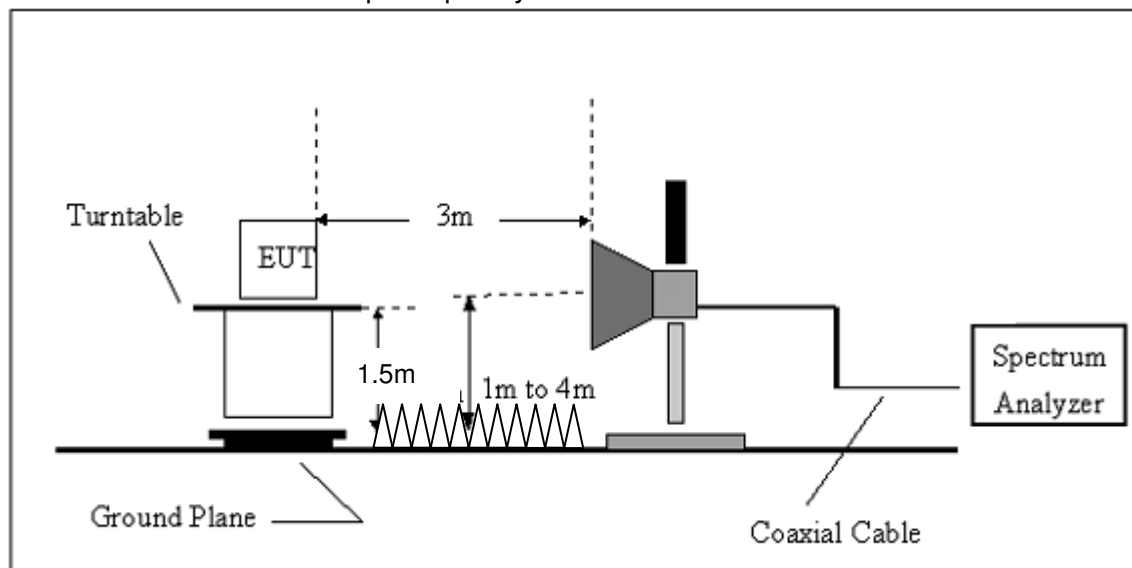
No deviation

## 5.2.4 TEST SETUP

### (A) Radiated Emission Test-Up Frequency 30MHz~1GHz



### (B) Radiated Emission Test-Up Frequency Above 1GHz

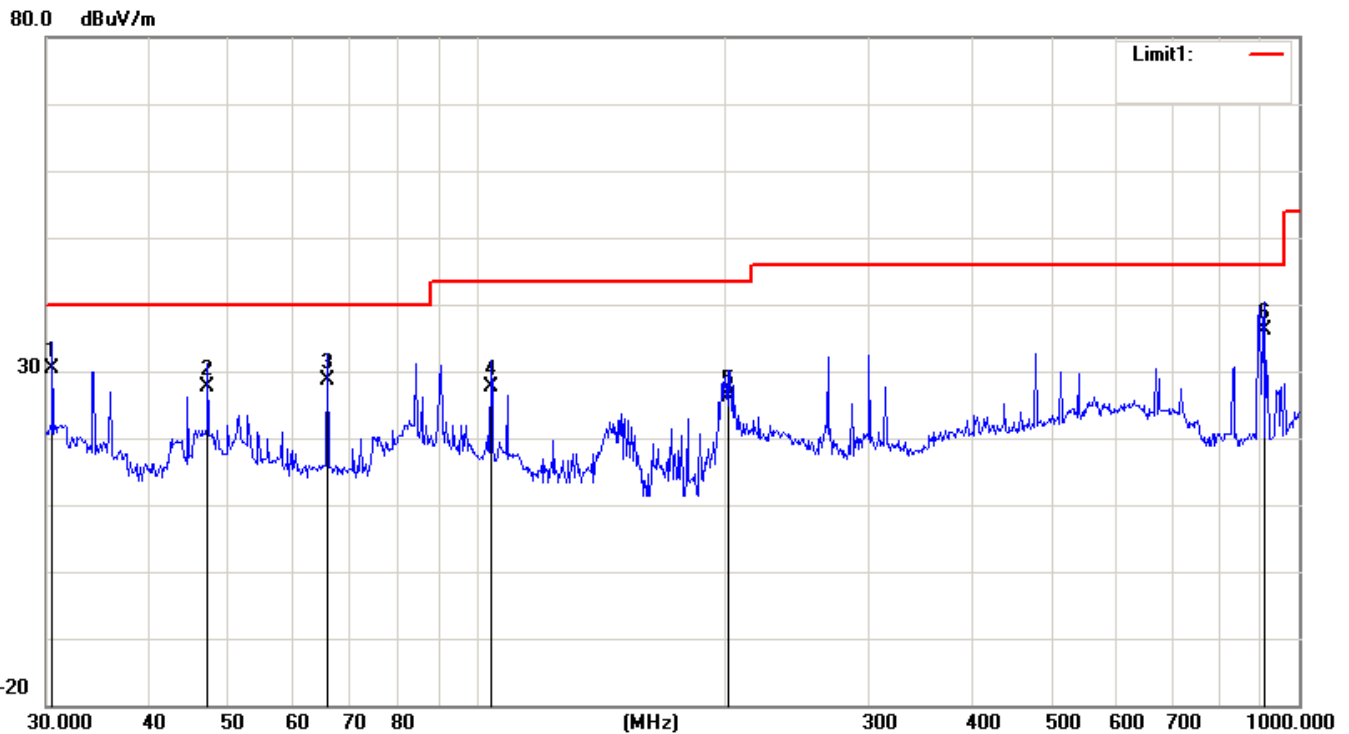


## 5.2.5 EUT OPERATING CONDITIONS

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.

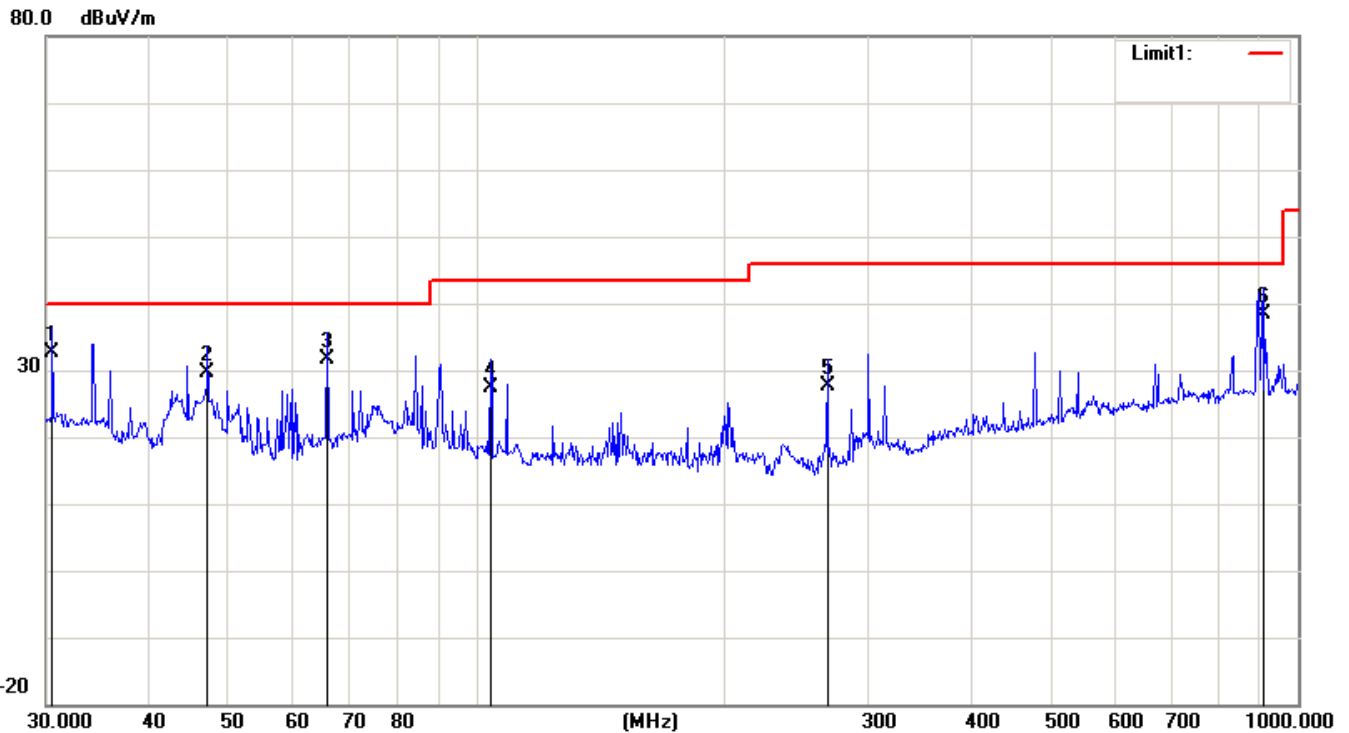
### 5.2.5.1 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

EUT	Mobile phone	Model Name	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 1	Test Date	August 23, 2016



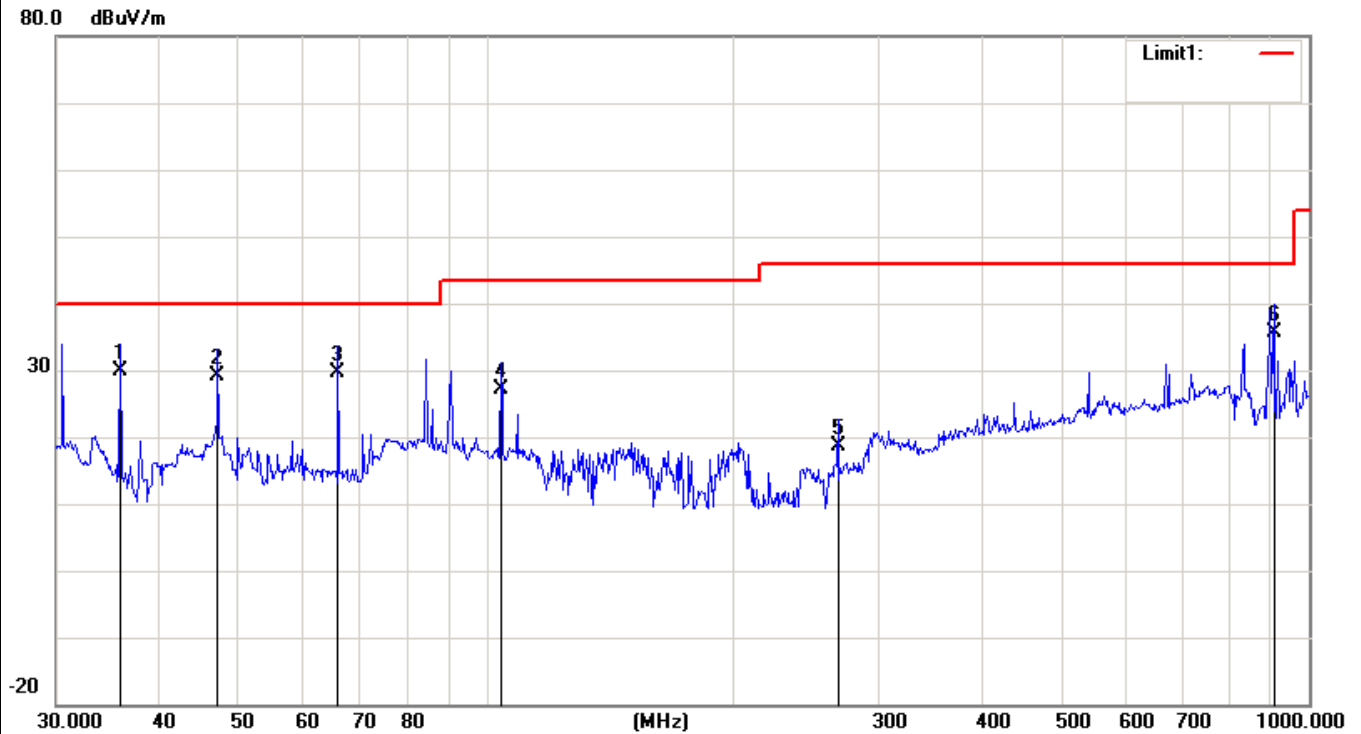
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	30.5306	27.36	3.13	30.49	40.00	-9.51	QP
2		47.1599	35.40	-7.84	27.56	40.00	-12.44	QP
3		66.0342	37.24	-8.59	28.65	40.00	-11.35	QP
4		104.1701	32.71	-5.18	27.53	43.50	-15.97	QP
5		202.1005	31.06	-4.90	26.16	43.50	-17.34	QP
6		906.4824	30.11	6.08	36.19	46.00	-9.81	QP

EUT	Mobile phone	Model Name	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 1	Test Date	August 23, 2016



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	30.5306	29.51	3.13	32.64	40.00	-7.36	QP
2		47.1599	37.56	-7.84	29.72	40.00	-10.28	QP
3		66.0342	40.15	-8.59	31.56	40.00	-8.44	QP
4		104.1701	32.51	-5.18	27.33	43.50	-16.17	QP
5		267.5455	33.86	-6.28	27.58	46.00	-18.42	QP
6		906.4824	32.24	6.08	38.32	46.00	-7.68	QP

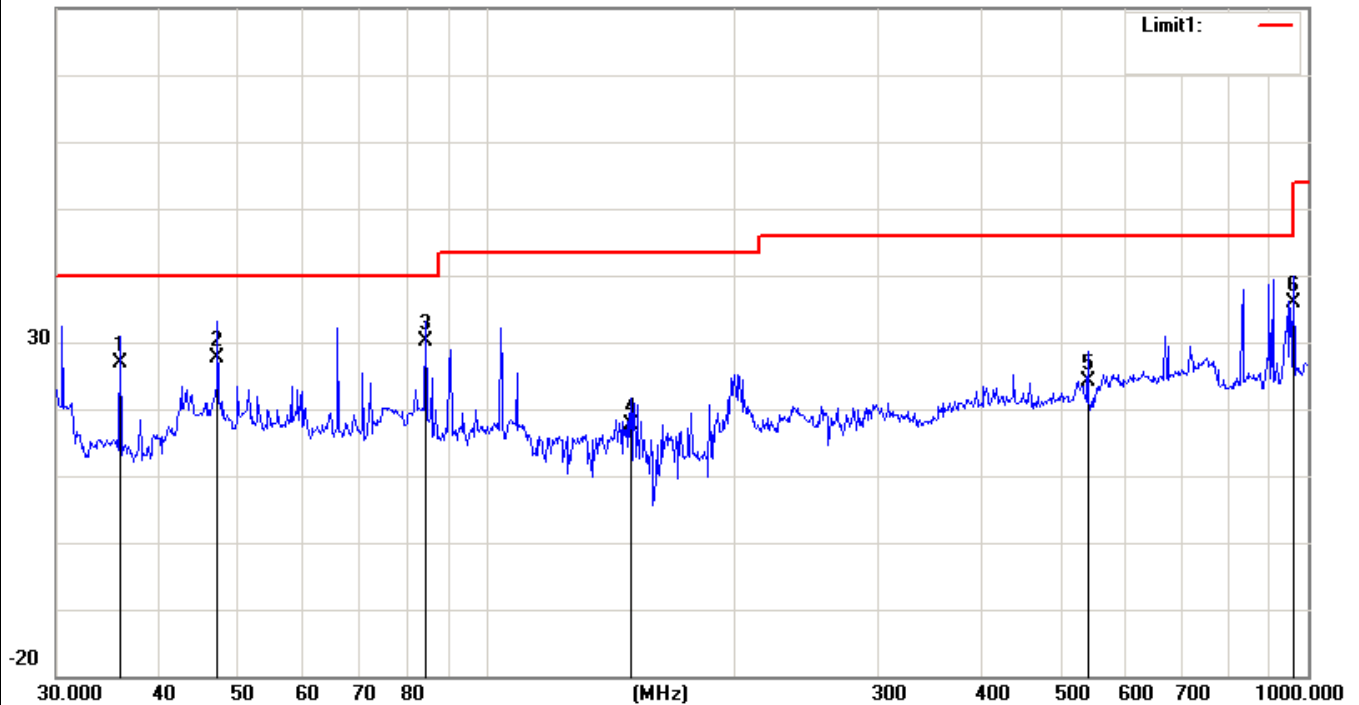
EUT	Mobile phone	Model Name	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 2	Test Date	August 23, 2016



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	35.8746	30.40	-0.51	29.89	40.00	-10.11	QP
2		47.1599	37.05	-7.84	29.21	40.00	-10.79	QP
3		66.0342	38.30	-8.59	29.71	40.00	-10.29	QP
4		104.1701	32.24	-5.18	27.06	43.50	-16.44	QP
5		267.5455	24.84	-6.28	18.56	46.00	-27.44	QP
6		906.4824	29.56	6.08	35.64	46.00	-10.36	QP

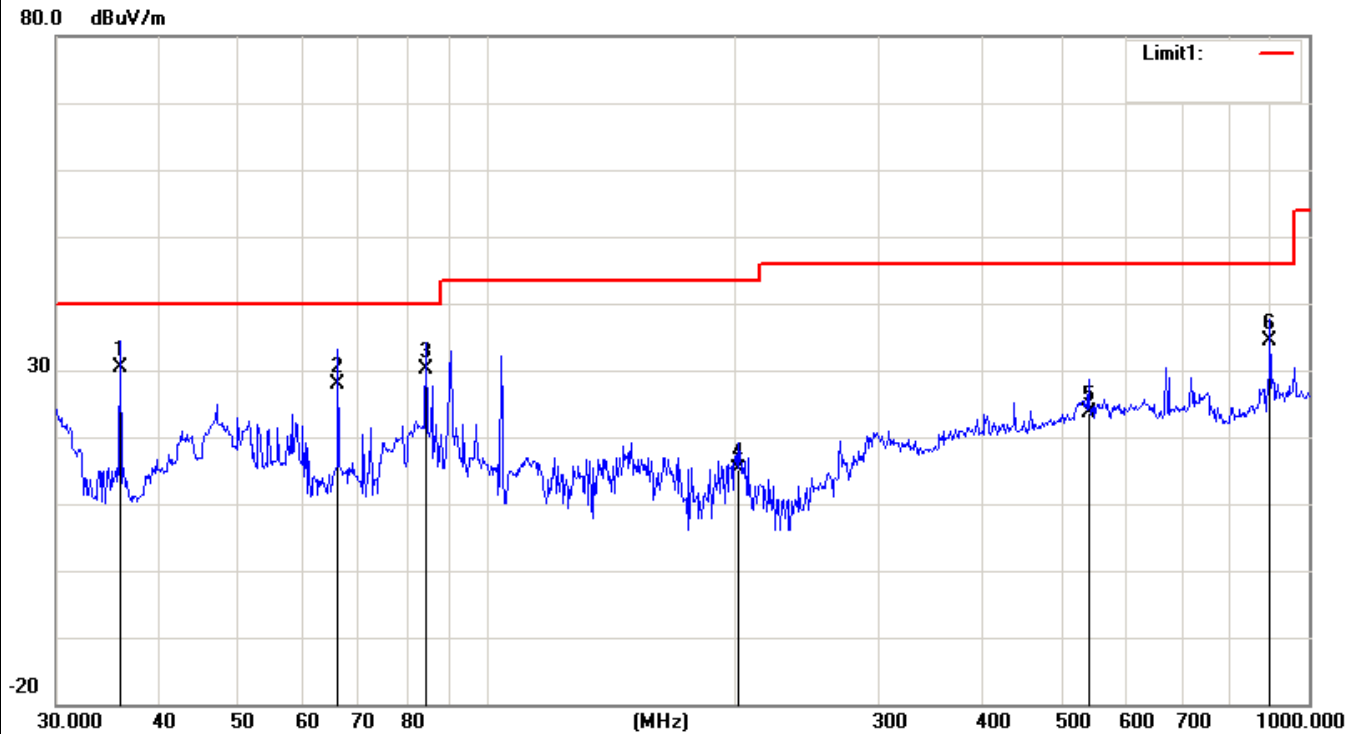
EUT	Mobile phone	Model Name	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 2	Test Date	August 23, 2016

80.0 dBuV/m



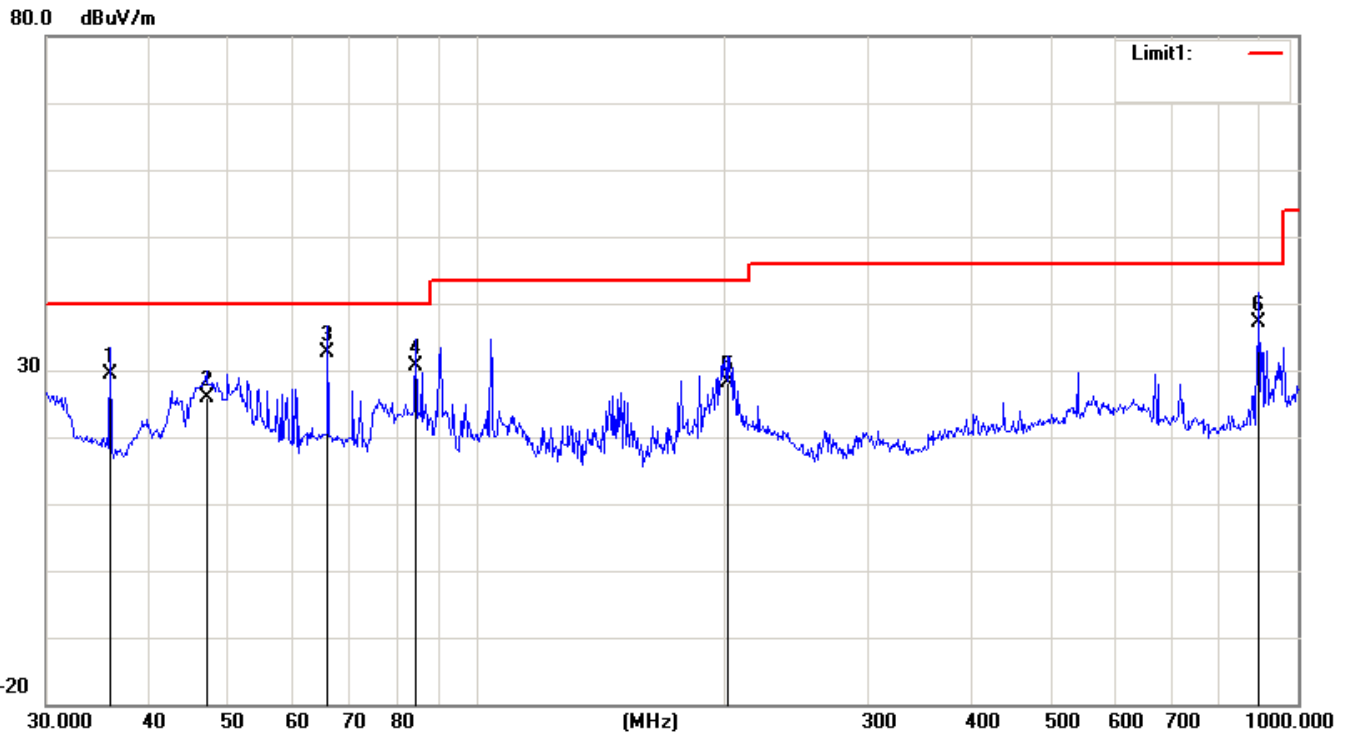
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		35.8746	27.49	-0.51	26.98	40.00	-13.02	QP
2		47.1599	35.40	-7.84	27.56	40.00	-12.44	QP
3	*	84.4054	38.07	-7.94	30.13	40.00	-9.87	QP
4		150.0108	21.42	-3.86	17.56	43.50	-25.94	QP
5		539.4775	24.33	-0.18	24.15	46.00	-21.85	QP
6		962.1623	13.07	22.86	35.93	54.00	-18.07	QP

EUT	Mobile phone	Model Name	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 3	Test Date	August 23, 2016



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	35.8746	30.90	-0.51	30.39	40.00	-9.61	QP
2		66.0342	36.50	-8.59	27.91	40.00	-12.09	QP
3		84.4054	38.09	-7.94	30.15	40.00	-9.85	QP
4		202.1005	20.04	-4.90	15.14	43.50	-28.36	QP
5		539.4775	23.86	-0.18	23.68	46.00	-22.32	QP
6		896.9965	28.67	5.59	34.26	46.00	-11.74	QP

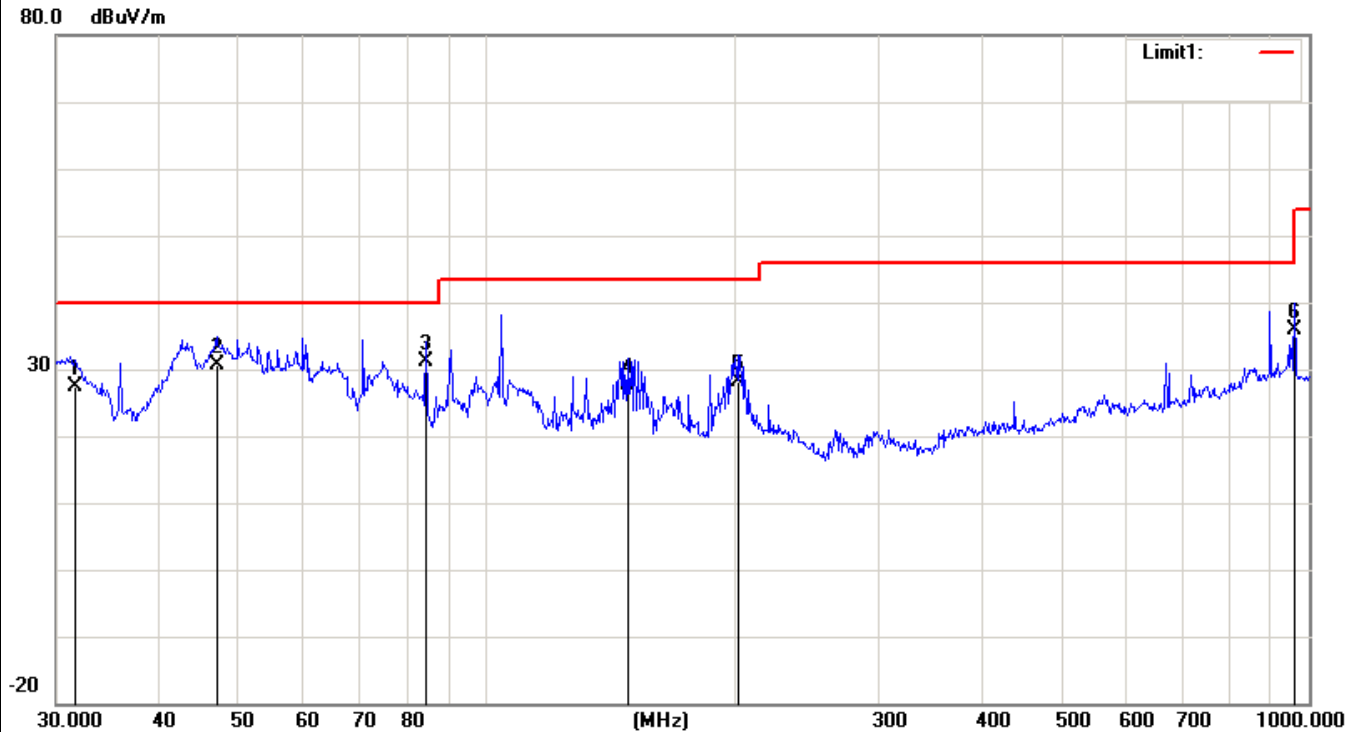
EUT	Mobile phone	Model Name	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 3	Test Date	August 23, 2016



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		35.8746	29.90	-0.51	29.39	40.00	-10.61	QP
2		46.9948	33.54	-7.77	25.77	40.00	-14.23	QP
3	*	66.0342	41.30	-8.59	32.71	40.00	-7.29	QP
4		84.4054	38.59	-7.94	30.65	40.00	-9.35	QP
5		202.1005	33.04	-4.90	28.14	43.50	-15.36	QP
6		896.9965	31.53	5.59	37.12	46.00	-8.88	QP



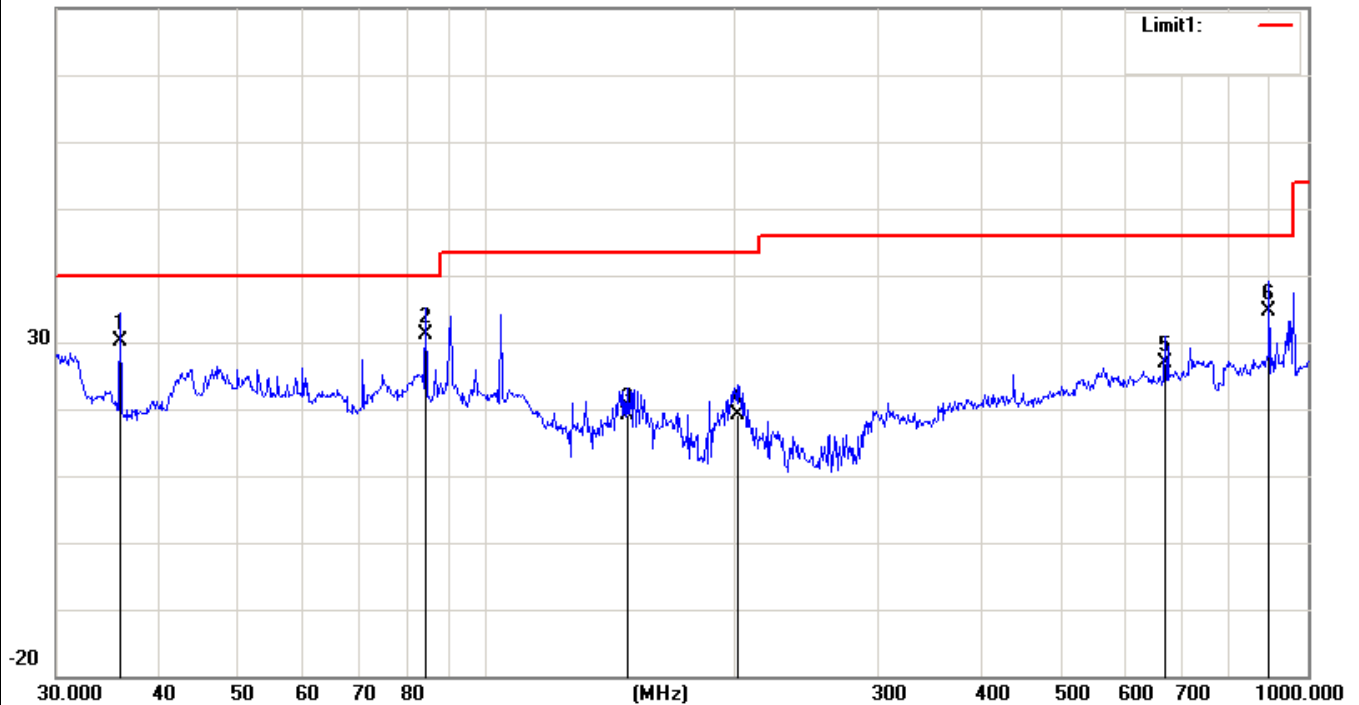
EUT	Mobile phone	Model Name	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 4	Test Date	August 23, 2016



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		31.6202	25.01	2.40	27.41	40.00	-12.59	QP
2		46.9948	38.46	-7.77	30.69	40.00	-9.31	QP
3	*	84.4054	38.99	-7.94	31.05	40.00	-8.95	QP
4		148.4410	31.35	-3.71	27.64	43.50	-15.86	QP
5		202.1005	33.05	-4.90	28.15	43.50	-15.35	QP
6		962.1623	13.03	22.86	35.89	54.00	-18.11	QP

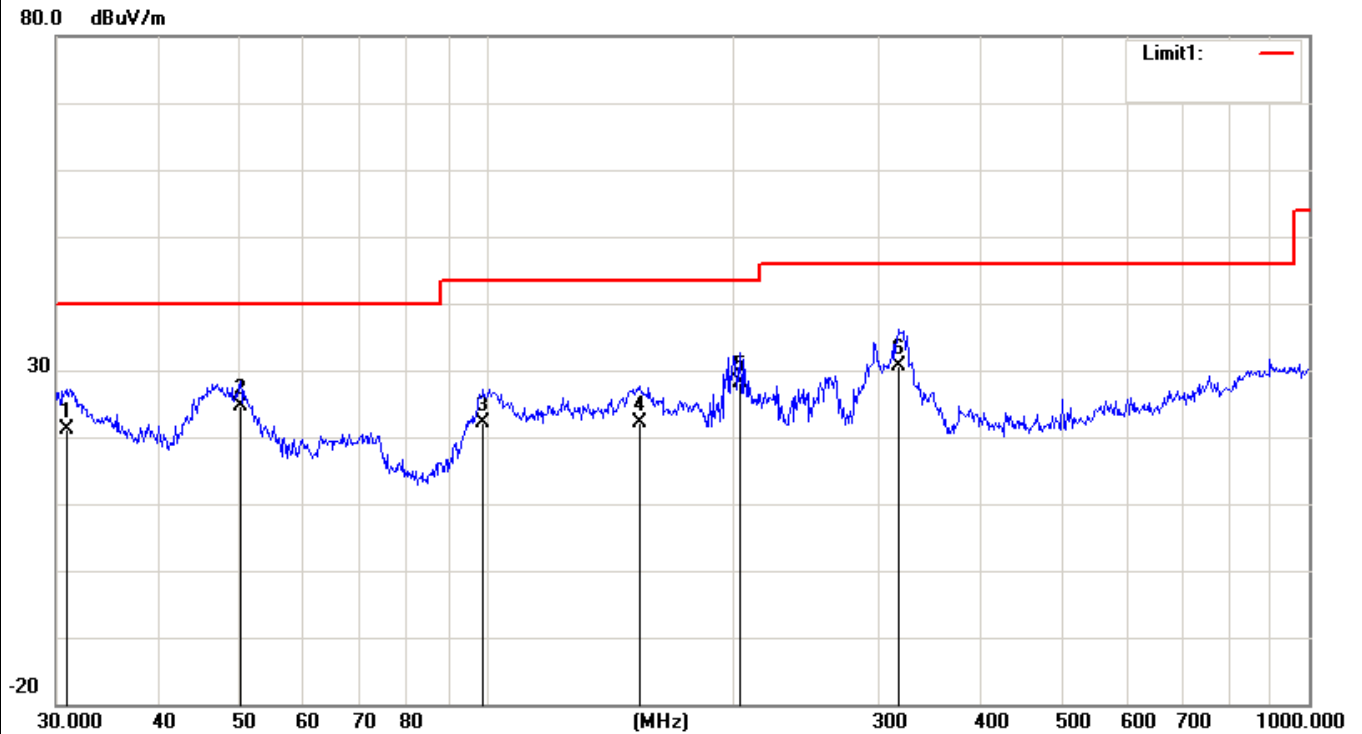
EUT	Mobile phone	Model Name	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 4	Test Date	August 23, 2016

80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		35.8746	30.60	-0.51	30.09	40.00	-9.91	QP
2	*	84.4054	39.09	-7.94	31.15	40.00	-8.85	QP
3		148.4410	22.96	-3.71	19.25	43.50	-24.25	QP
4		202.1005	24.13	-4.90	19.23	43.50	-24.27	QP
5		670.4893	24.86	2.00	26.86	46.00	-19.14	QP
6		896.9965	28.93	5.59	34.52	46.00	-11.48	QP

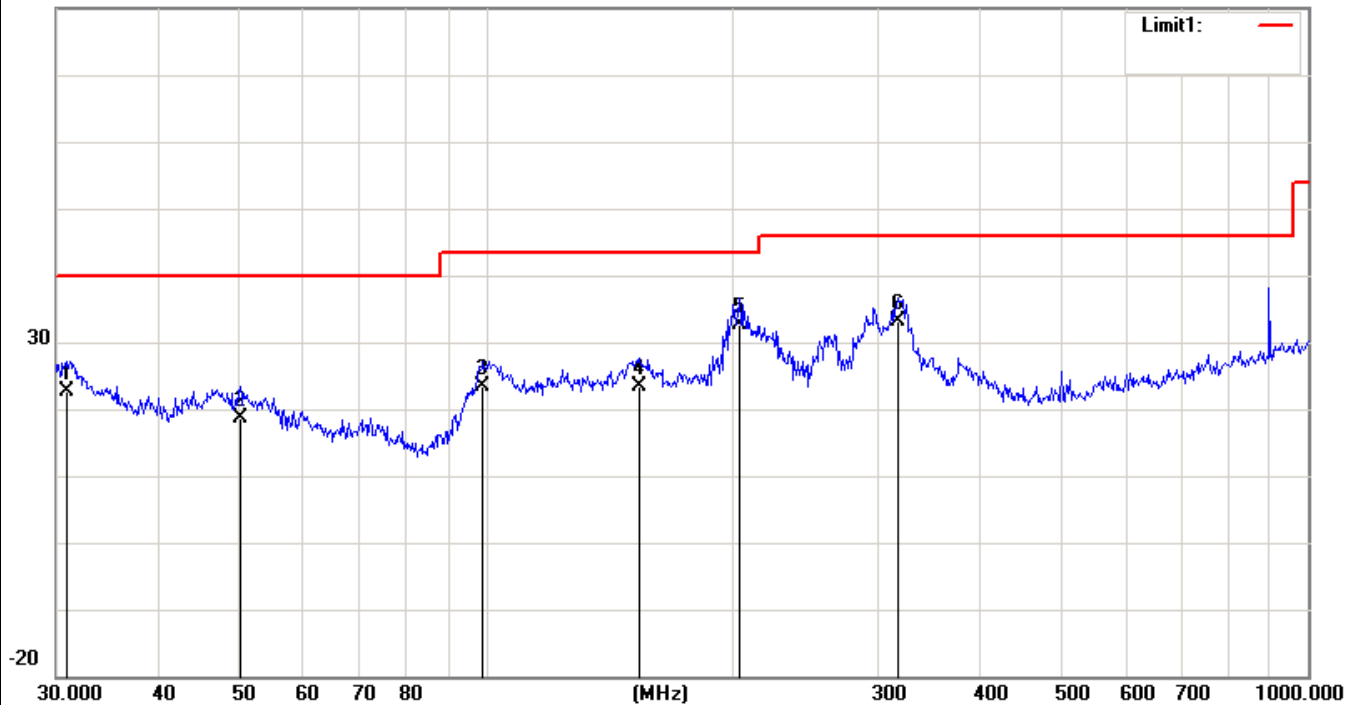
EUT	Mobile phone	Model Name	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 5	Test Date	August 23, 2016



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		30.8535	18.28	2.92	21.20	40.00	-18.80	QP
2	*	50.2324	33.65	-9.03	24.62	40.00	-15.38	QP
3		99.1796	28.52	-6.46	22.06	43.50	-21.44	QP
4		153.7384	26.27	-4.12	22.15	43.50	-21.35	QP
5		203.5227	33.07	-4.95	28.12	43.50	-15.38	QP
6		317.7010	35.05	-4.45	30.60	46.00	-15.40	QP

EUT	Mobile phone	Model Name	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 5	Test Date	August 23, 2016

80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		30.8535	19.67	2.92	22.59	40.00	-17.41	QP
2		50.2324	27.72	-9.03	18.69	40.00	-21.31	QP
3		99.1797	29.91	-6.46	23.45	43.50	-20.05	QP
4		153.7385	27.53	-4.12	23.41	43.50	-20.09	QP
5	*	203.5228	37.60	-4.95	32.65	43.50	-10.85	QP
6		317.7011	37.59	-4.45	33.14	46.00	-12.86	QP

**5.2.5.2 TEST RESULTS(1GHZ TO 6GHZ)**

EUT	Mobile phone	Model Name	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1
Test Date	August 23, 2016		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1632.45	V	60.41	40.52	74	54	-13.59	-13.48
2829.27	V	59.70	40.55	74	54	-14.30	-13.45
1684.52	H	59.14	40.13	74	54	-14.86	-13.87
2831.6	H	59.32	40.32	74	54	-14.68	-13.68

**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	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 2
Test Date	August 23, 2016		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1583.35	V	59.32	39.76	74	54	-14.68	-14.24
2641.52	V	58.97	39.24	74	54	-15.03	-14.76
1628.42	H	58.29	40.52	74	54	-15.71	-13.48
2810.39	H	58.52	39.52	74	54	-15.48	-14.48

**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	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 3
Test Date	August 23, 2016		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1577.35	V	58.46	41.89	74	54	-15.54	-12.11
2652.38	V	58.71	40.32	74	54	-15.29	-13.68
1699.33	H	58.07	39.35	74	54	-15.93	-14.65
2739.42	H	58.84	39.84	74	54	-15.16	-14.16

## 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	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 4
Test Date	August 23, 2016		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1583.35	V	60.67	40.58	74	54	-13.33	-13.42
2641.52	V	58.90	40.36	74	54	-15.10	-13.64
1628.42	H	60.00	40.02	74	54	-14.00	-13.98
2810.39	H	58.03	39.03	74	54	-15.97	-14.97

## 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	X555
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 5
Test Date	August 23, 2016		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1577.35	V	58.84	40.30	74	54	-15.16	-13.70
2652.38	V	59.20	40.88	74	54	-14.80	-13.12
1699.33	H	58.77	40.82	74	54	-15.23	-13.18
2739.42	H	59.36	40.36	74	54	-14.64	-13.64

**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.

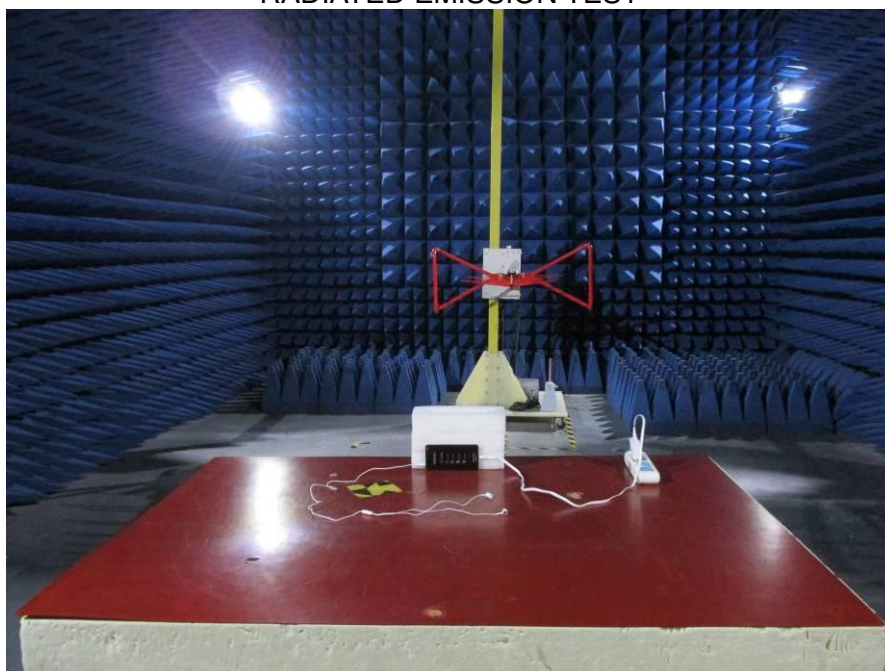
All the x/y/z orientation has been investigated, and only worst case is presented in this report.

## 6. EUT TEST PHOTO

CONDUCTED EMISSION TEST

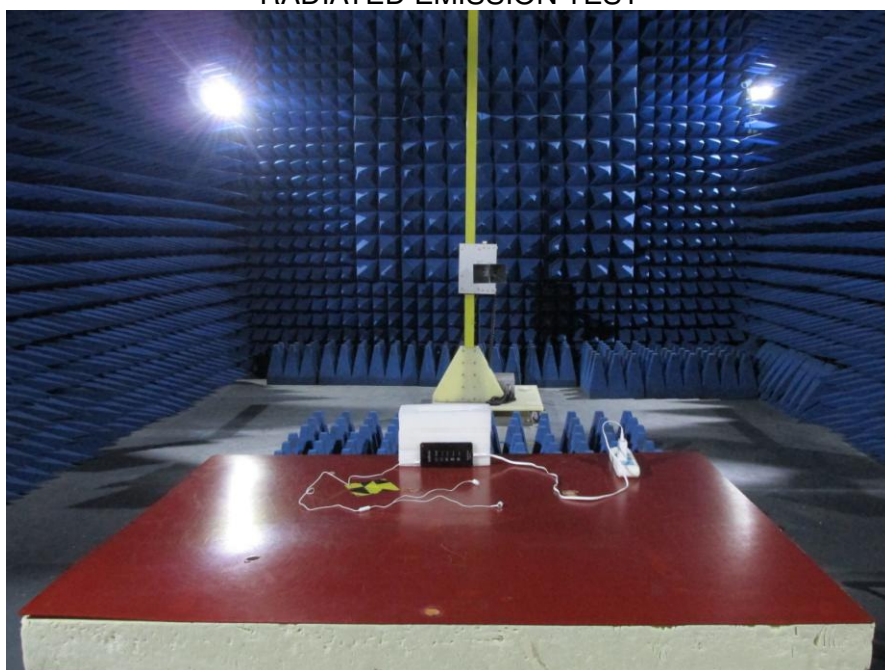


RADIATED EMISSION TEST





# RADIATED EMISSION TEST



## 7. PHOTOGRAPHS OF EUT

Appearance photograph of EUT



Appearance photograph of EUT





Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT





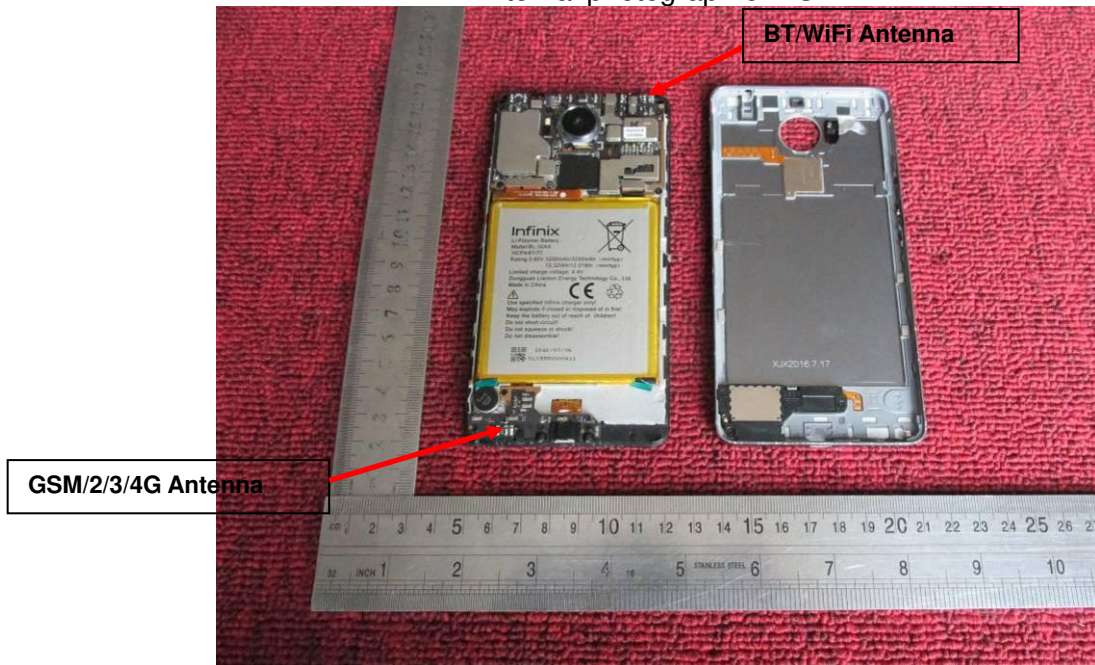
Appearance photograph of EUT



Appearance photograph of EUT



Internal photograph of EUT



Internal photograph of EUT





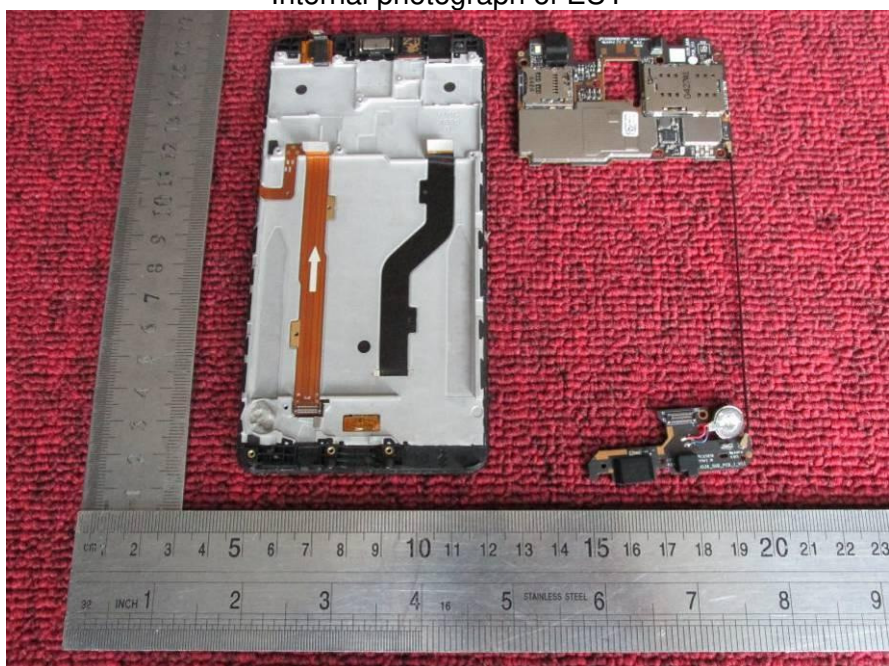
Internal photograph of EUT



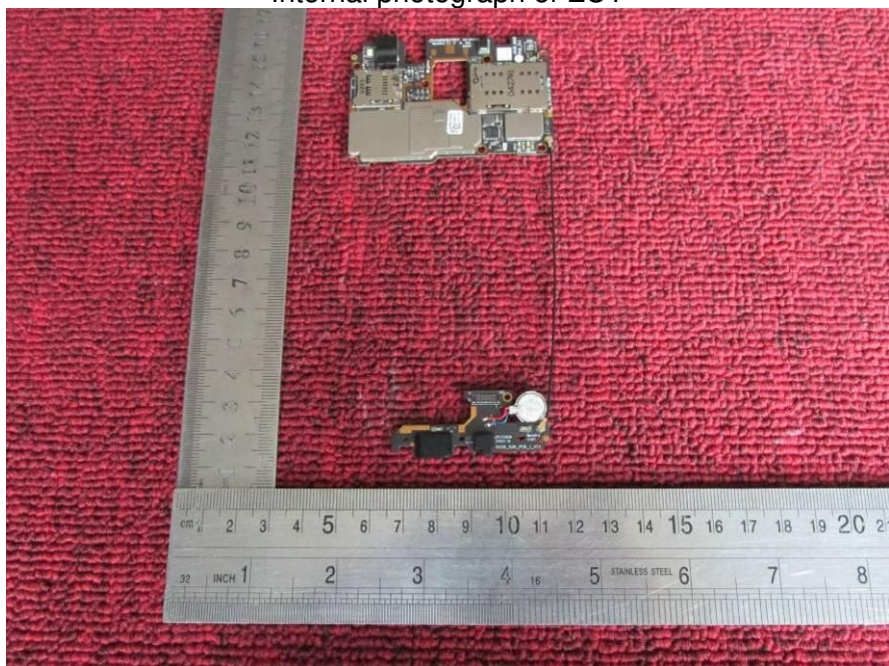
Internal photograph of EUT



Internal photograph of EUT

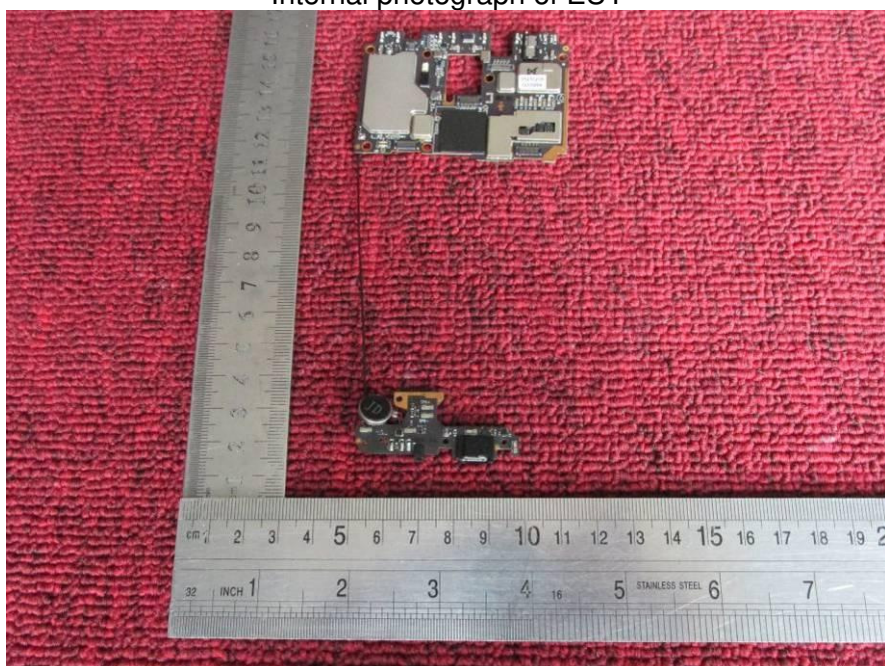


Internal photograph of EUT

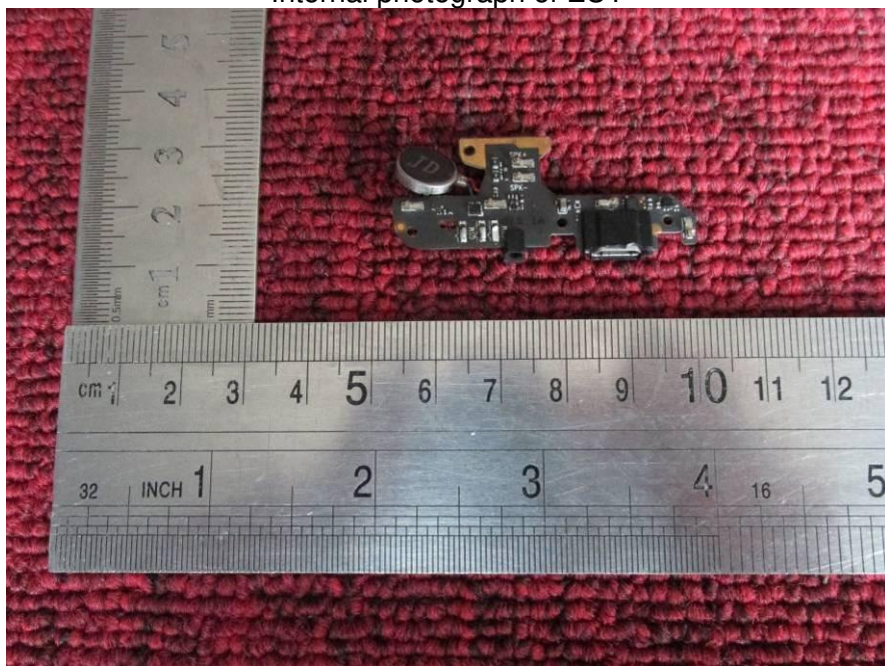




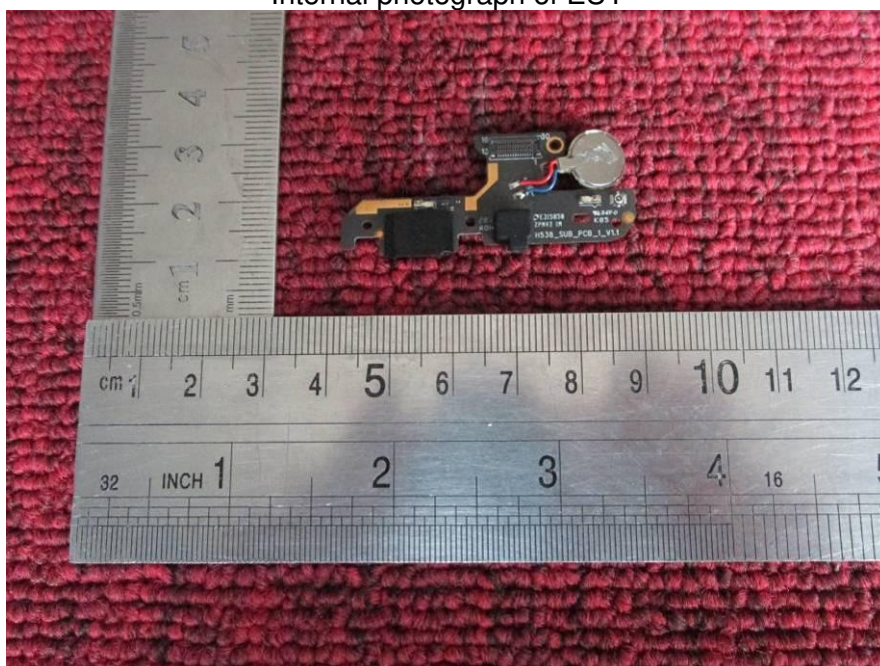
Internal photograph of EUT



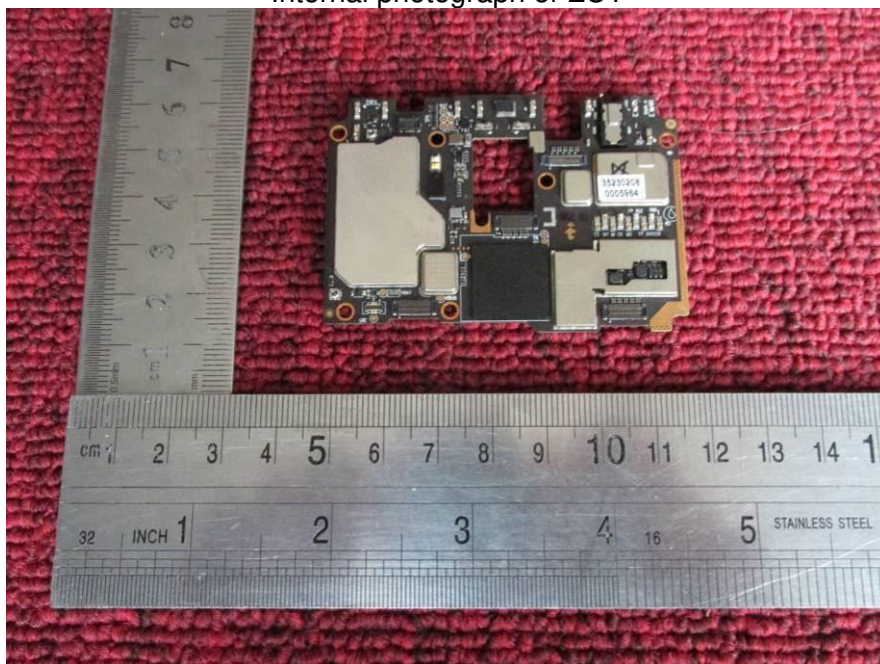
Internal photograph of EUT



Internal photograph of EUT

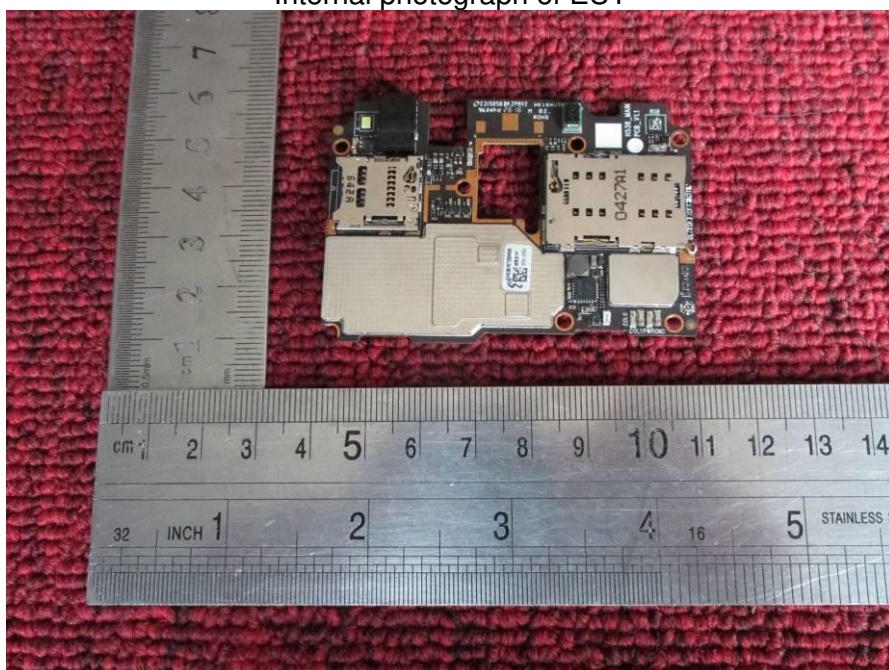


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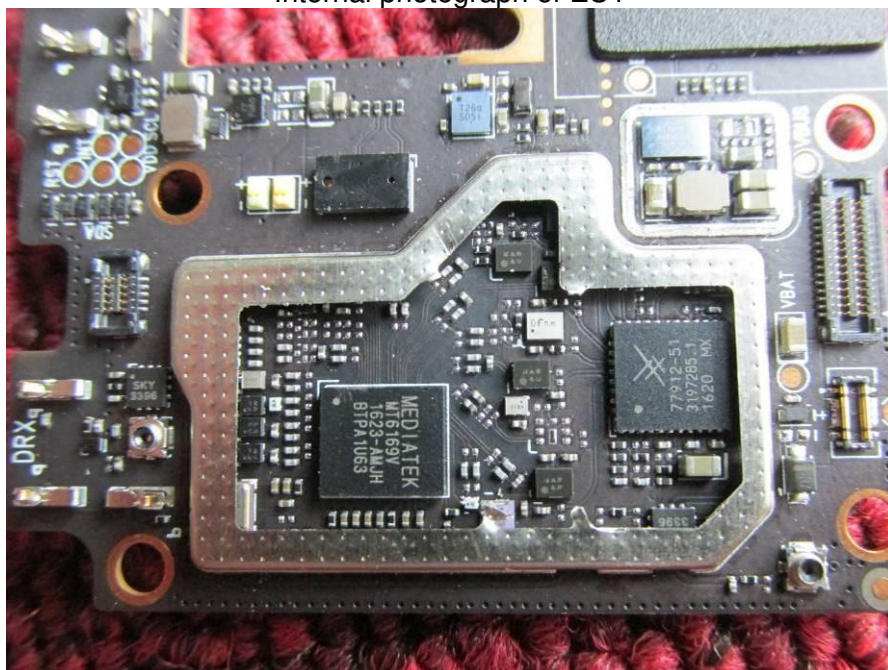




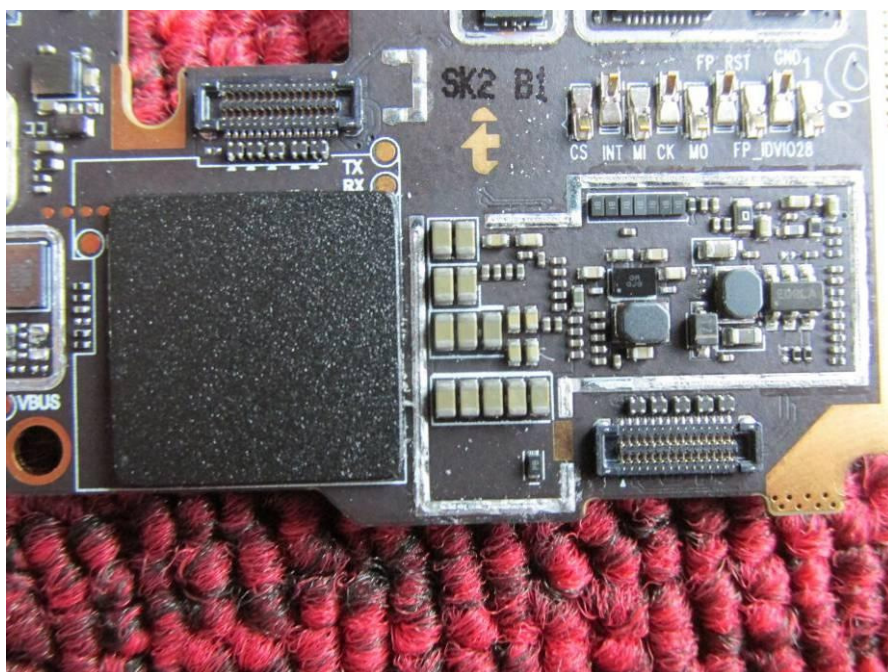
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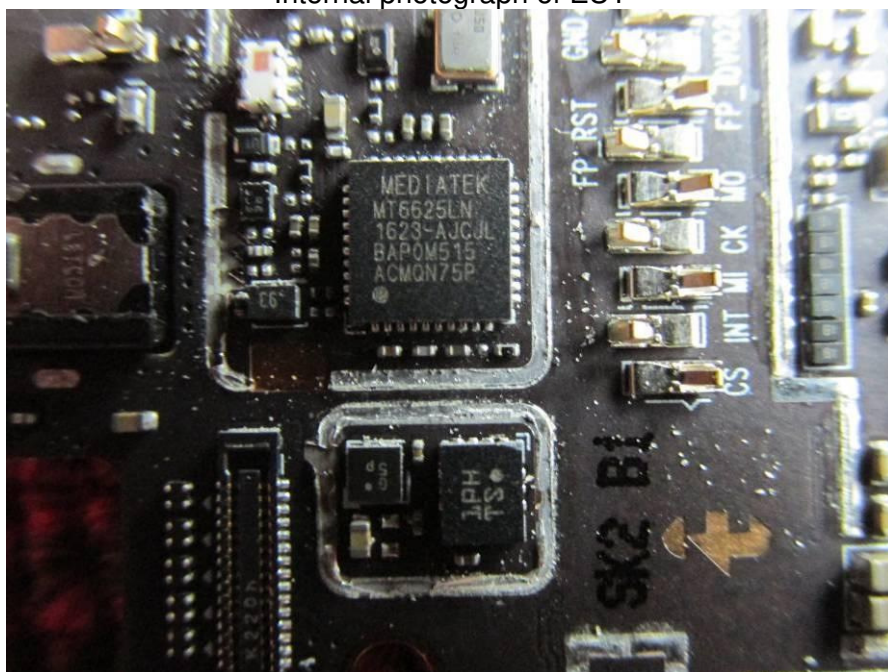
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT

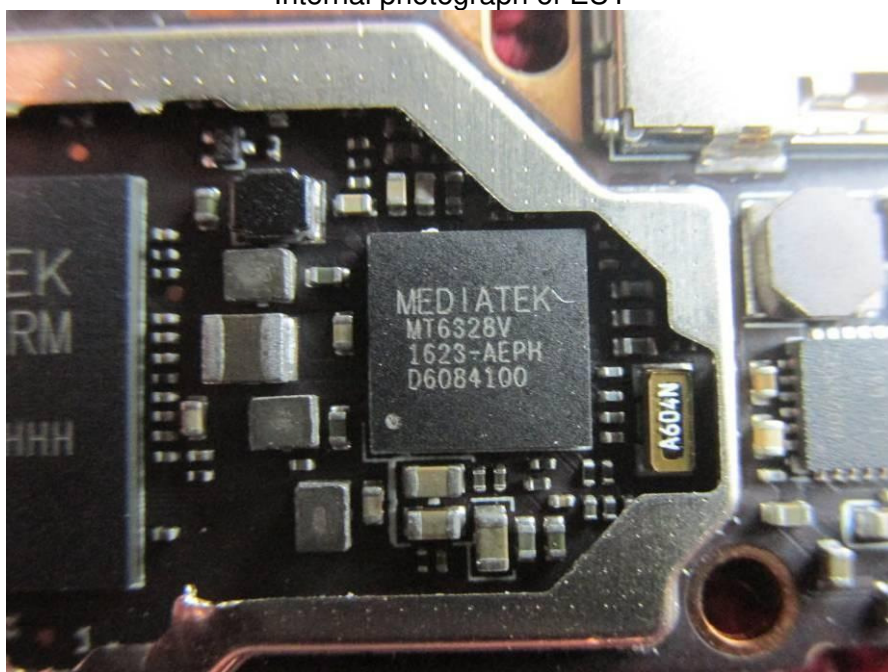




Internal photograph of EUT



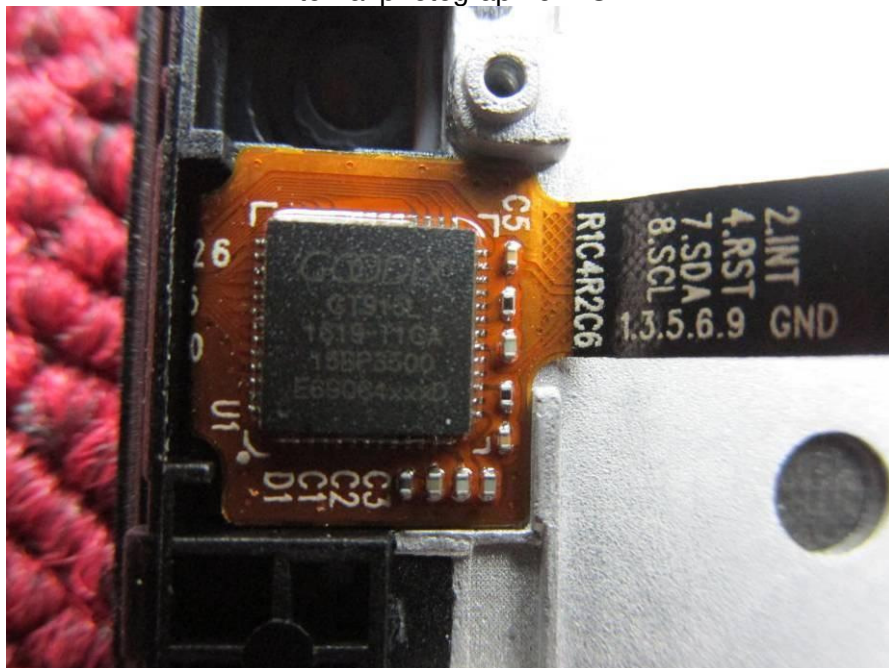
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



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