

FCC Report

Application Purpose : Original grant
Applicant Name: : Sun Cupid Technology (HK) Ltd.
FCC ID : 2ADIN-NUUX5
Equipment Type : LTE mobile phone
Model Name : X5, NUU_X5
Report Number : FCC17030156A-4
Standard(S) : FCC Part 15 Subpart B
Date Of Receipt : March 13, 2017
Date Of Issue : April 06, 2017

Test By : 

(Daisy Qin)

Reviewed By : 

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Authorized by : 

(Michael Ling)

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District,,Shenzhen,518000
Registration Number: 588523

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	April 06, 2017	Valid	Original Report

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1. GENERAL INFORMATION

Test Model	X5, NUU_X5
Applicant	Sun Cupid Technology (HK) Ltd.
Address	16/F,CEO Tower,77 Wing Hong Street,Cheung Sha Wan,Hong Kong
Manufacturer	Name:Sun cupid(Shen Zhen) Electronic Ltd
Address	Baolong Industrial City, Longgang District, Shenzhen Hi-Tech Road, Building 1, A 7
Equipment Type	LTE mobile phone
Brand Name	NUU
Hardware	MTEK6750
Software	X5-AM-02
Battery information:	Li-Polymer Battery : 366282 Voltage: 3.8V Capacity: 2950mAh Limited Charge Voltage: 4.35V
Adapter Information:	Adapter: HNEM050200UE Input: AC 100~240V 50/60Hz 0.35A Output: DC 5.0V==2.0A
Data of receipt	March 13, 2017
Date of test	March 13, 2017 to April 05 , 2017
Deviation	None
Condition of Test Sample	Normal

Equipment Type	Trade Name	Test Model	Mode difference
LTE mobile phone	NUU	X5	Model is not the same, The main measurement model X5
LTE mobile phone	NUU	NUU_X5	

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.

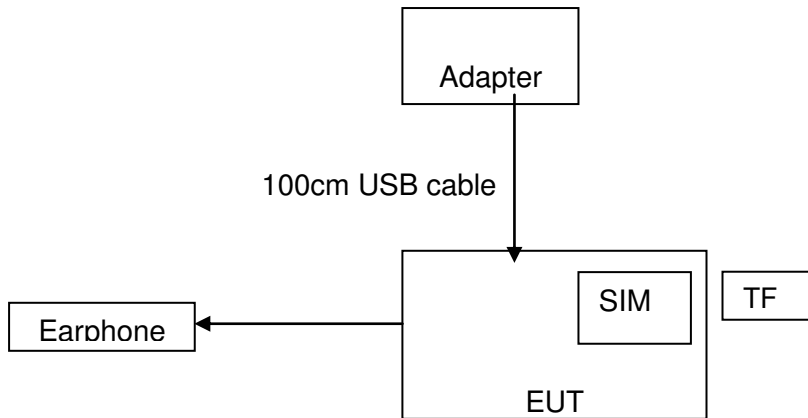
Pretest Mode	Description
Mode 1	Video Recording
Model 2	Video Playing
Mode 3	Exchange data with computer
Mode 4	GPS
Mode 5	FM

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

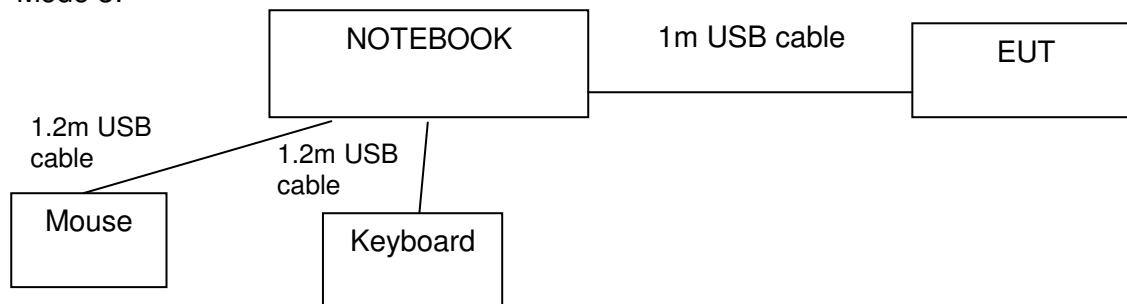
2.3 CONFIGURATION OF SYSTEM UNDER TEST

Mode 1&2&4&5:



(EUT: LTE mobile phone)

Mode 3:



(EUT: LTE 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	/	HNEM050200UE	/	/
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	SCHWABEBECK	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

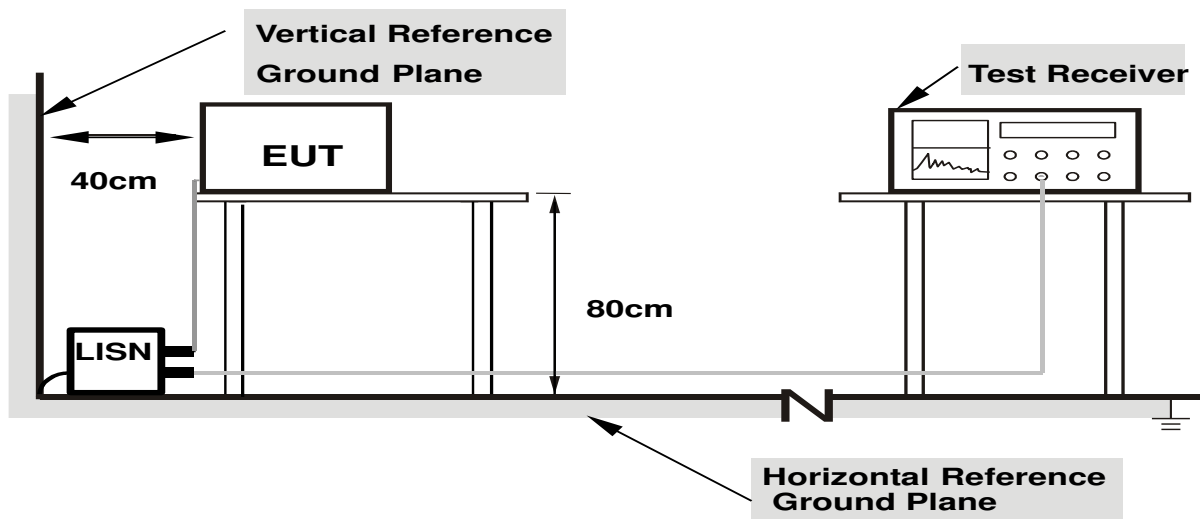
5.1.2 TEST PROCEDURE

- 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



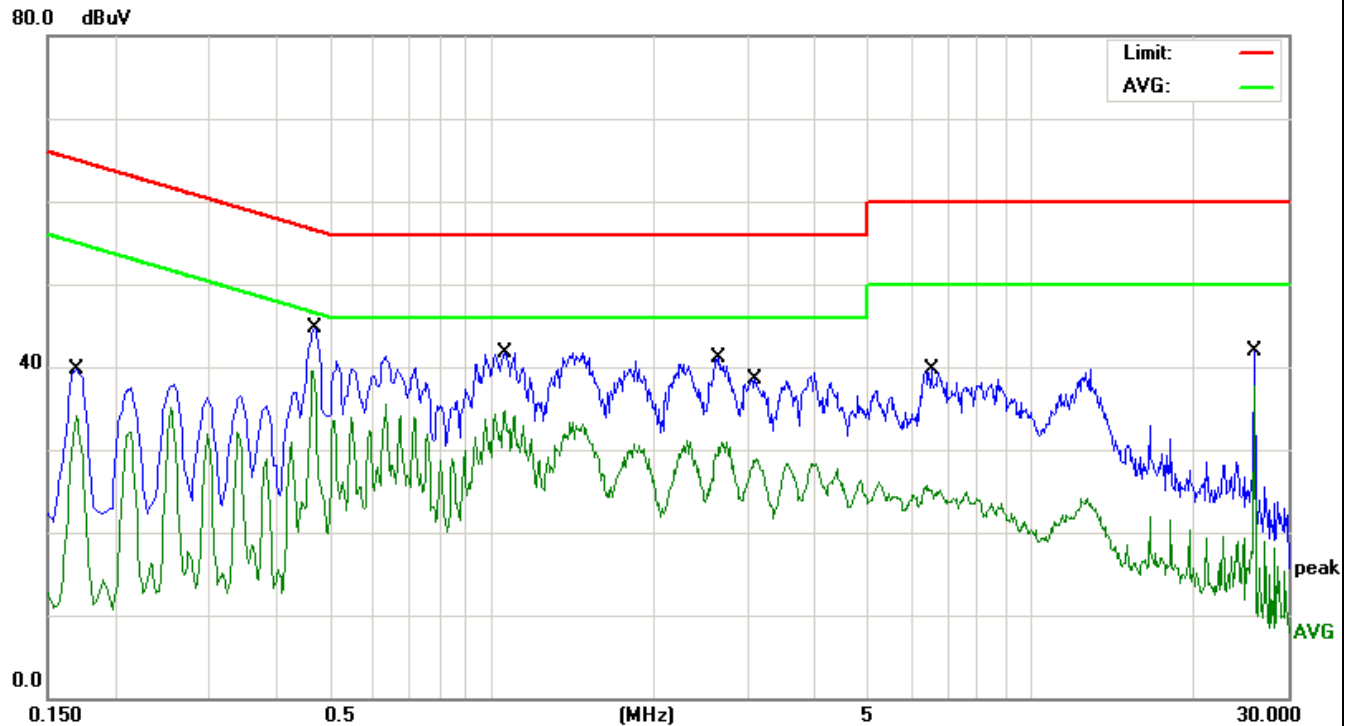
- Note:**
- Support units were connected to second LISN.
 - Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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.

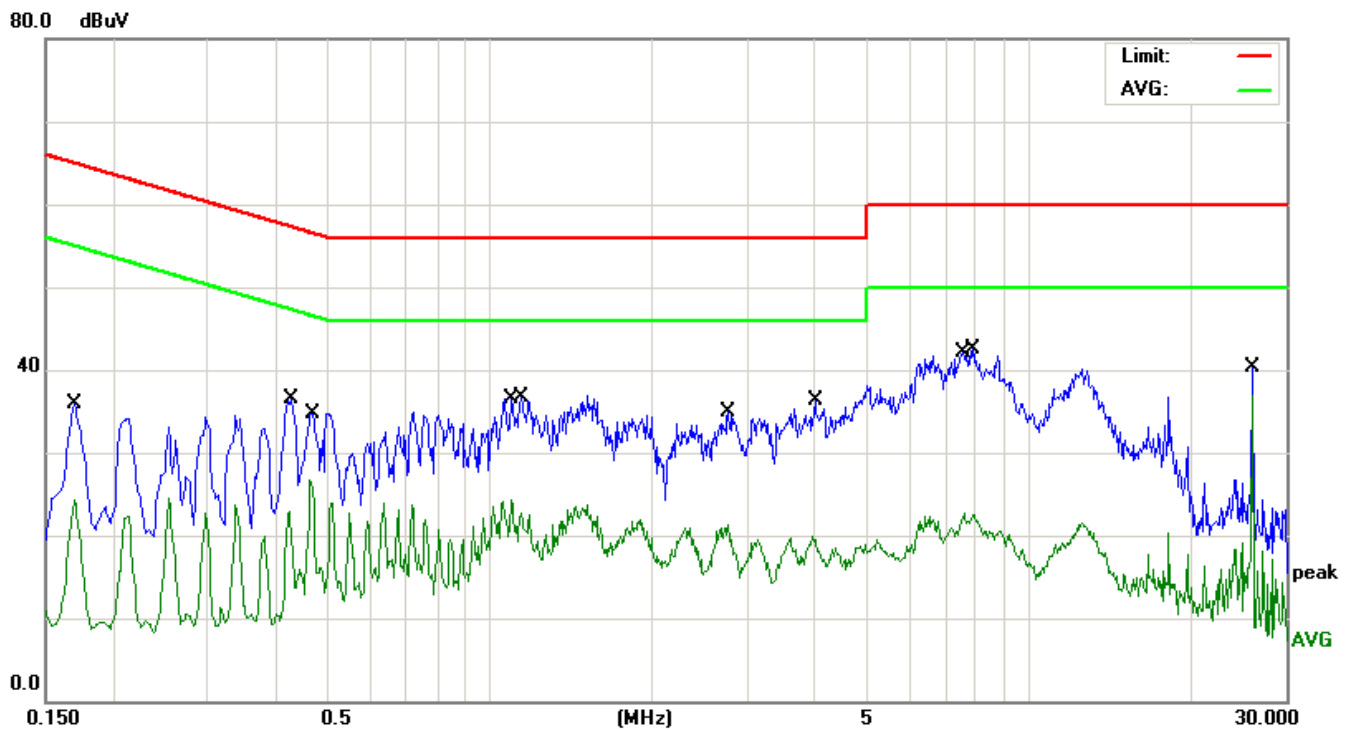
5.1.6 TEST RESULTS

EUT	Mobile phone	Model Name	X5
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	March 15, 2017	Test Mode	Mode 1



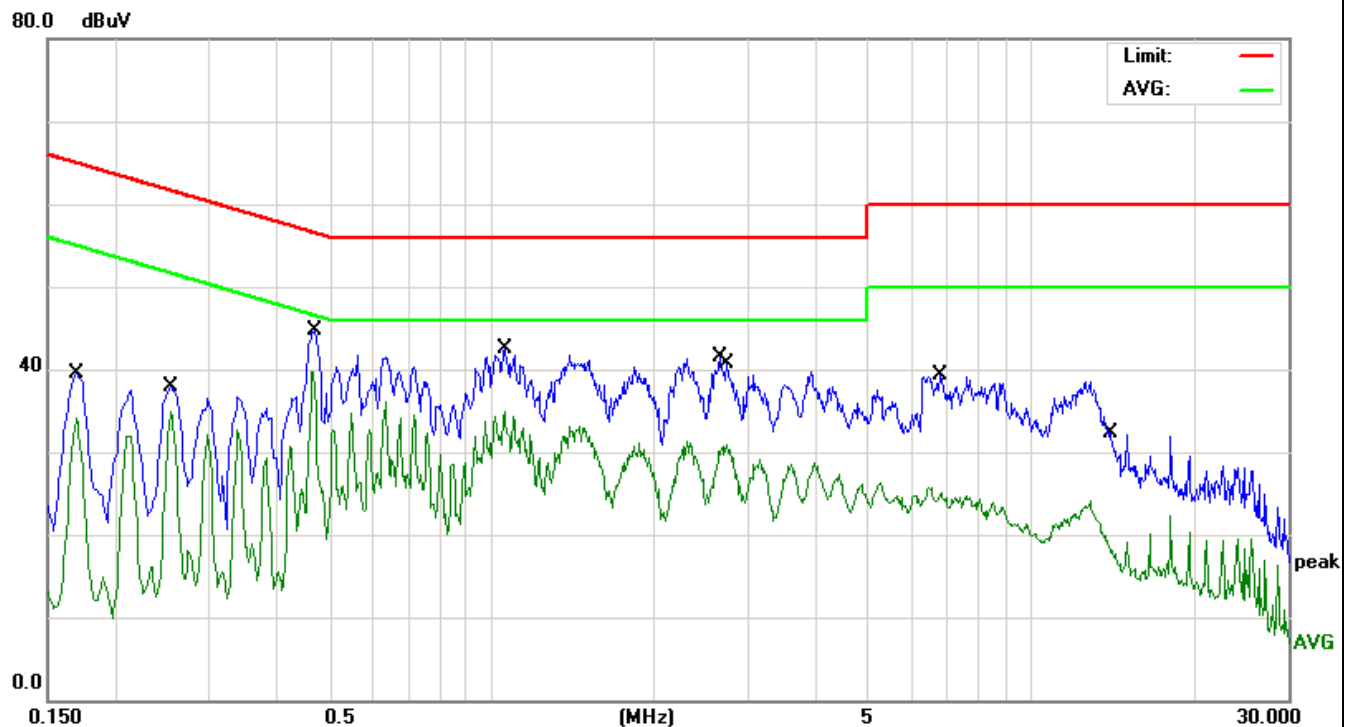
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1700	28.16	11.62	39.78	64.96	-25.18	QP
2		0.1700	22.43	11.62	34.05	54.96	-20.91	AVG
3	*	0.4660	28.61	10.84	39.45	46.58	-7.13	AVG
4		0.4700	33.87	10.84	44.71	56.51	-11.80	QP
5		1.0580	24.14	10.63	34.77	46.00	-11.23	AVG
6		1.0620	31.17	10.63	41.80	56.00	-14.20	QP
7		2.6460	30.47	10.58	41.05	56.00	-14.95	QP
8		3.1060	18.28	10.57	28.85	46.00	-17.15	AVG
9		6.4420	15.06	10.56	25.62	50.00	-24.38	AVG
10		6.5420	29.14	10.56	39.70	60.00	-20.30	QP
11		26.0020	31.39	10.60	41.99	60.00	-18.01	QP
12		26.0020	27.18	10.60	37.78	50.00	-12.22	AVG

EUT	Mobile phone	Model Name	X5
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	March 15, 2017	Test Mode	Mode 1



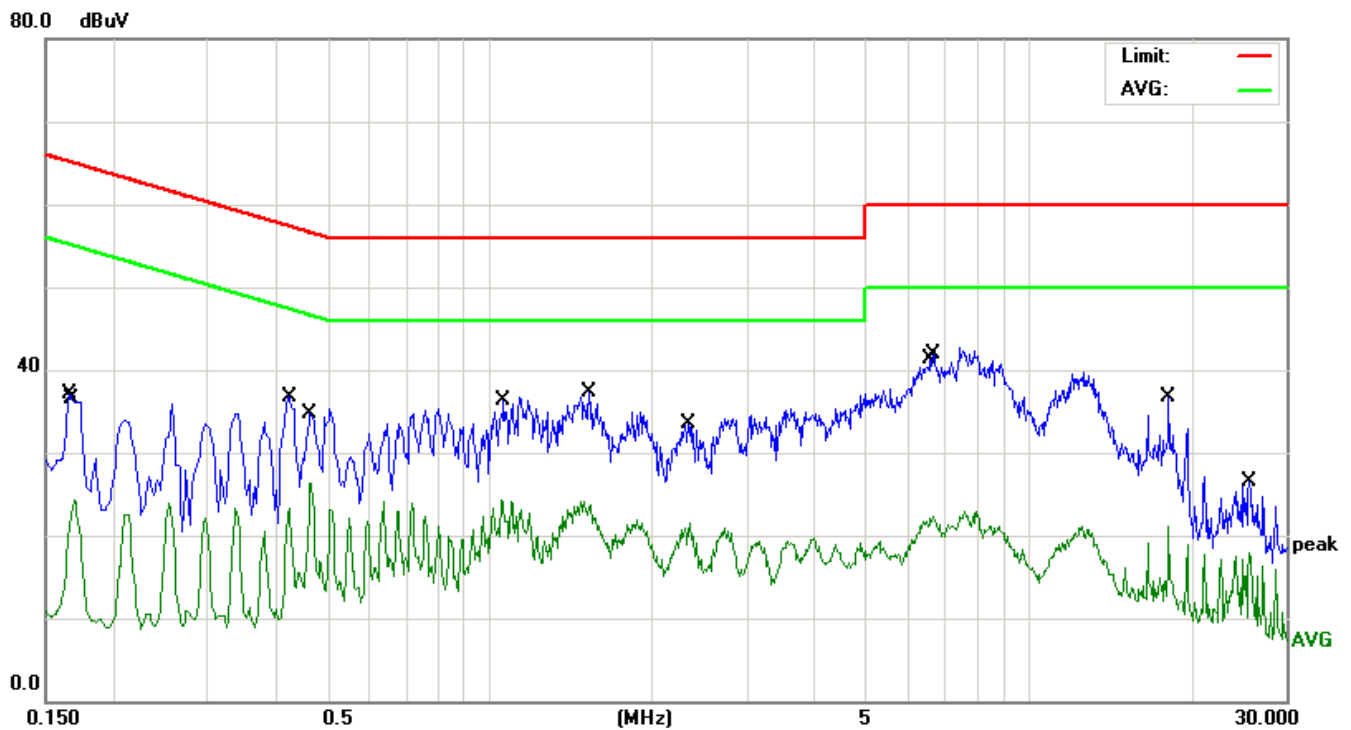
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1700	24.29	11.62	35.91	64.96	-29.05	QP
2		0.1700	12.70	11.62	24.32	54.96	-30.64	AVG
3		0.4300	25.57	10.90	36.47	57.25	-20.78	QP
4		0.4660	15.76	10.84	26.60	46.58	-19.98	AVG
5		1.0980	13.59	10.62	24.21	46.00	-21.79	AVG
6		1.1420	26.07	10.62	36.69	56.00	-19.31	QP
7		2.7659	10.64	10.57	21.21	46.00	-24.79	AVG
8		4.0100	25.78	10.55	36.33	56.00	-19.67	QP
9		7.5780	12.16	10.57	22.73	50.00	-27.27	AVG
10		7.8660	32.00	10.58	42.58	60.00	-17.42	QP
11		26.0020	29.61	10.60	40.21	60.00	-19.79	QP
12	*	26.0020	26.31	10.60	36.91	50.00	-13.09	AVG

EUT	Mobile phone	Model Name	X5
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	March 15, 2017	Test Mode	Mode 2



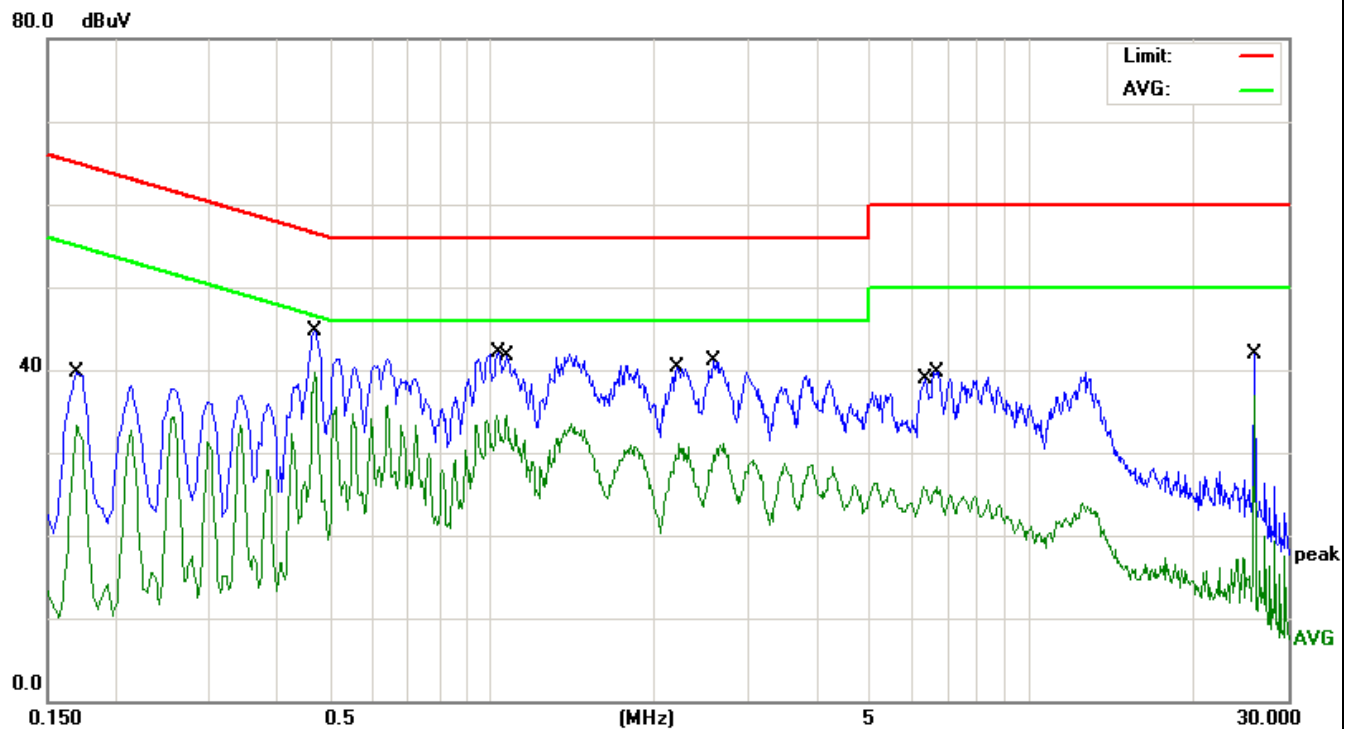
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1700	27.88	11.62	39.50	64.96	-25.46	QP
2		0.1700	22.50	11.62	34.12	54.96	-20.84	AVG
3		0.2540	23.79	11.13	34.92	51.62	-16.70	AVG
4	*	0.4660	28.82	10.84	39.66	46.58	-6.92	AVG
5		0.4700	33.83	10.84	44.67	56.51	-11.84	QP
6		1.0580	31.82	10.63	42.45	56.00	-13.55	QP
7		1.0580	24.20	10.63	34.83	46.00	-11.17	AVG
8		2.6500	30.97	10.58	41.55	56.00	-14.45	QP
9		2.7300	20.37	10.58	30.95	46.00	-15.05	AVG
10		6.7740	28.79	10.57	39.36	60.00	-20.64	QP
11		6.8340	14.45	10.57	25.02	50.00	-24.98	AVG
12		14.1340	21.74	10.59	32.33	60.00	-27.67	QP

EUT	Mobile phone	Model Name	X5
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	March 15, 2017	Test Mode	Mode 2



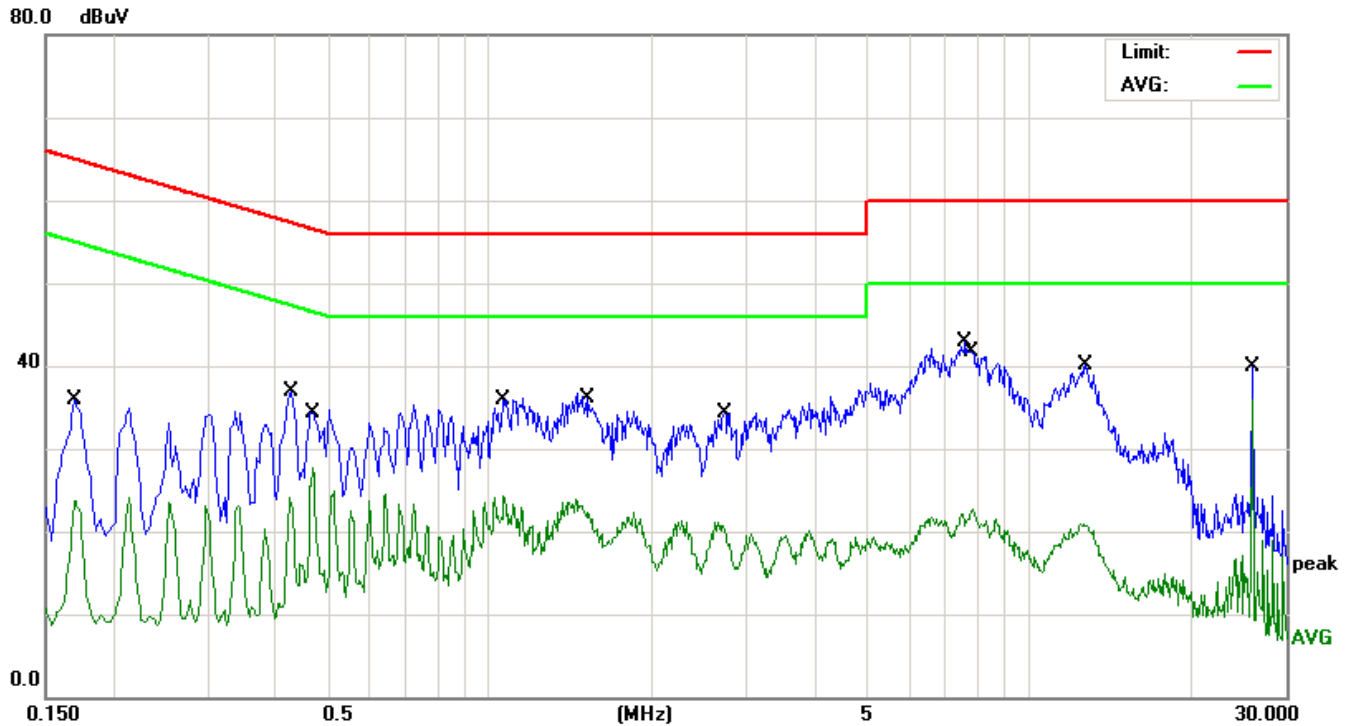
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1660	25.46	11.68	37.14	65.15	-28.01	QP
2		0.1700	12.78	11.62	24.40	54.96	-30.56	AVG
3		0.4260	25.88	10.90	36.78	57.33	-20.55	QP
4		0.4660	15.44	10.84	26.28	46.58	-20.30	AVG
5		1.0540	13.66	10.63	24.29	46.00	-21.71	AVG
6	*	1.5339	26.76	10.60	37.36	56.00	-18.64	QP
7		2.3460	10.90	10.58	21.48	46.00	-24.52	AVG
8		6.5020	29.77	10.56	40.33	60.00	-19.67	QP
9		6.6500	11.76	10.56	22.32	50.00	-27.68	AVG
10		18.1580	26.05	10.61	36.66	60.00	-23.34	QP
11		18.1580	10.52	10.61	21.13	50.00	-28.87	AVG
12		25.7180	15.86	10.60	26.46	60.00	-33.54	QP

EUT	Mobile phone	Model Name	X5
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	March 15, 2017	Test Mode	Mode 3



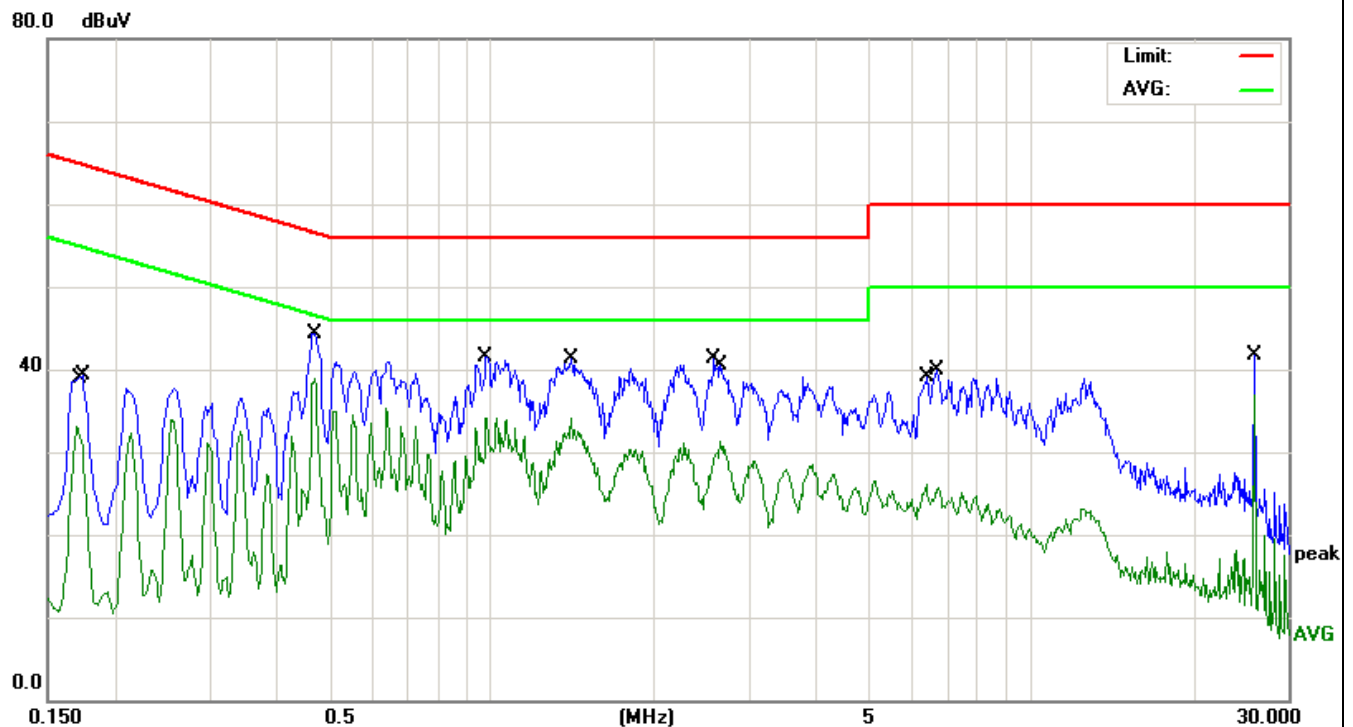
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1700	28.01	11.62	39.63	64.96	-25.33	QP
2		0.1700	21.67	11.62	33.29	54.96	-21.67	AVG
3		0.4700	33.86	10.84	44.70	56.51	-11.81	QP
4	*	0.4700	28.85	10.84	39.69	46.51	-6.82	AVG
5		1.0300	31.40	10.63	42.03	56.00	-13.97	QP
6		1.0660	23.88	10.63	34.51	46.00	-11.49	AVG
7		2.2340	20.52	10.58	31.10	46.00	-14.90	AVG
8		2.5780	30.46	10.58	41.04	56.00	-14.96	QP
9		6.3260	15.28	10.56	25.84	50.00	-24.16	AVG
10		6.6660	29.18	10.56	39.74	60.00	-20.26	QP
11		25.9980	31.28	10.60	41.88	60.00	-18.12	QP
12		26.0020	26.24	10.60	36.84	50.00	-13.16	AVG

EUT	Mobile phone	Model Name	X5
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	March 15, 2017	Test Mode	Mode 3



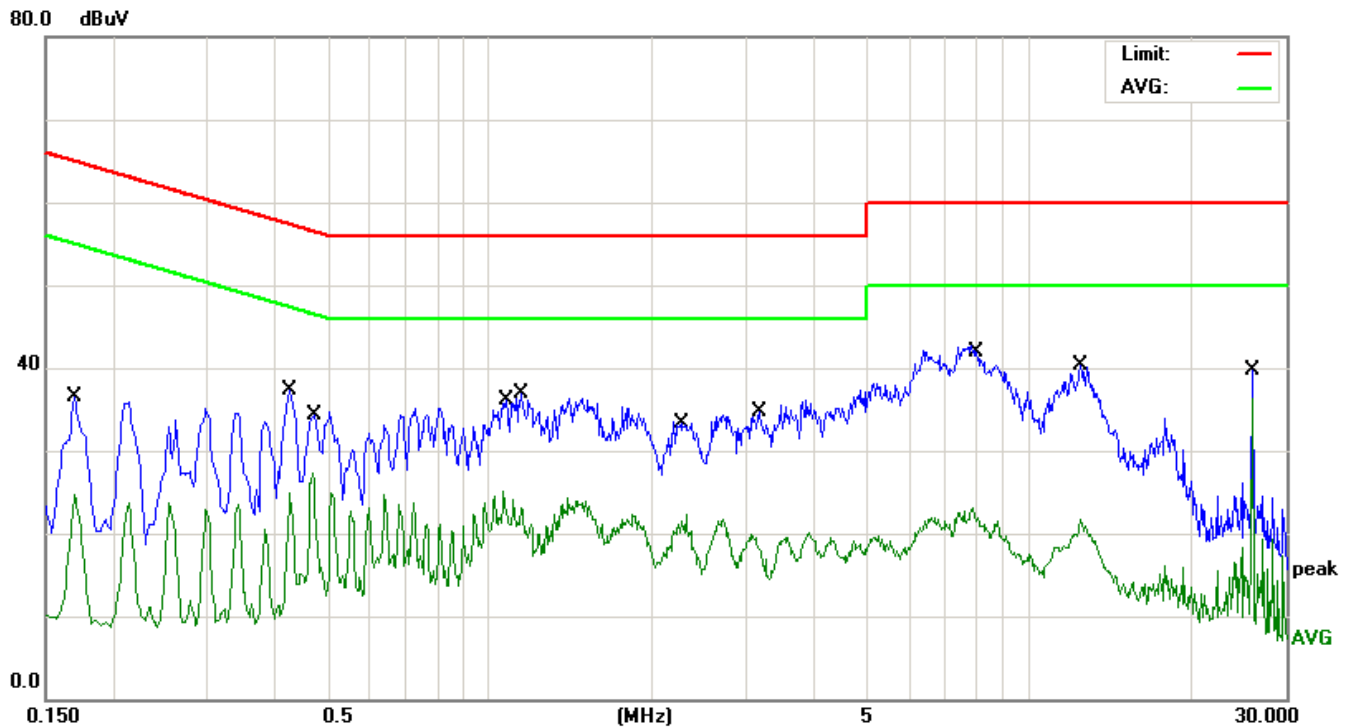
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1700	24.28	11.62	35.90	64.96	-29.06	QP
2		0.1700	12.14	11.62	23.76	54.96	-31.20	AVG
3		0.4300	26.08	10.90	36.98	57.25	-20.27	QP
4		0.4700	16.81	10.84	27.65	46.51	-18.86	AVG
5		1.0620	13.68	10.63	24.31	46.00	-21.69	AVG
6		1.5260	25.48	10.60	36.08	56.00	-19.92	QP
7		2.7100	10.04	10.58	20.62	46.00	-25.38	AVG
8		7.6420	32.29	10.57	42.86	60.00	-17.14	QP
9		7.8620	12.03	10.58	22.61	50.00	-27.39	AVG
10		12.7620	29.52	10.60	40.12	60.00	-19.88	QP
11		26.0020	29.25	10.60	39.85	60.00	-20.15	QP
12	*	26.0020	25.38	10.60	35.98	50.00	-14.02	AVG

EUT	Mobile phone	Model Name	X5
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	March 15, 2017	Test Mode	Mode 4



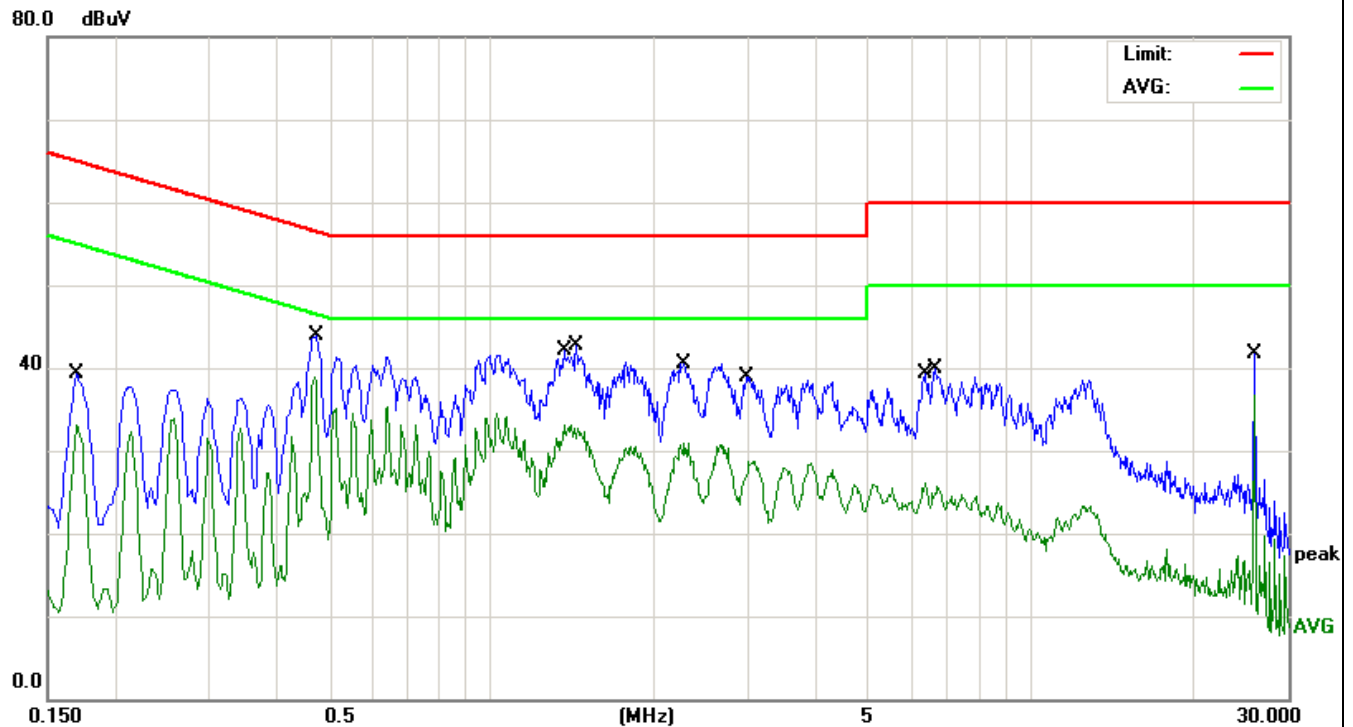
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1700	21.51	11.62	33.13	54.96	-21.83	AVG
2		0.1740	27.71	11.57	39.28	64.76	-25.48	QP
3		0.4700	33.41	10.84	44.25	56.51	-12.26	QP
4	*	0.4700	28.11	10.84	38.95	46.51	-7.56	AVG
5		0.9780	30.84	10.64	41.48	56.00	-14.52	QP
6		1.4060	23.49	10.62	34.11	46.00	-11.89	AVG
7		2.5820	30.65	10.58	41.23	56.00	-14.77	QP
8		2.6619	20.63	10.58	31.21	46.00	-14.79	AVG
9		6.3859	15.50	10.56	26.06	50.00	-23.94	AVG
10		6.6940	29.30	10.56	39.86	60.00	-20.14	QP
11		26.0020	31.19	10.60	41.79	60.00	-18.21	QP
12		26.0020	26.24	10.60	36.84	50.00	-13.16	AVG

EUT	Mobile phone	Model Name	X5
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	March 15, 2017	Test Mode	Mode 4



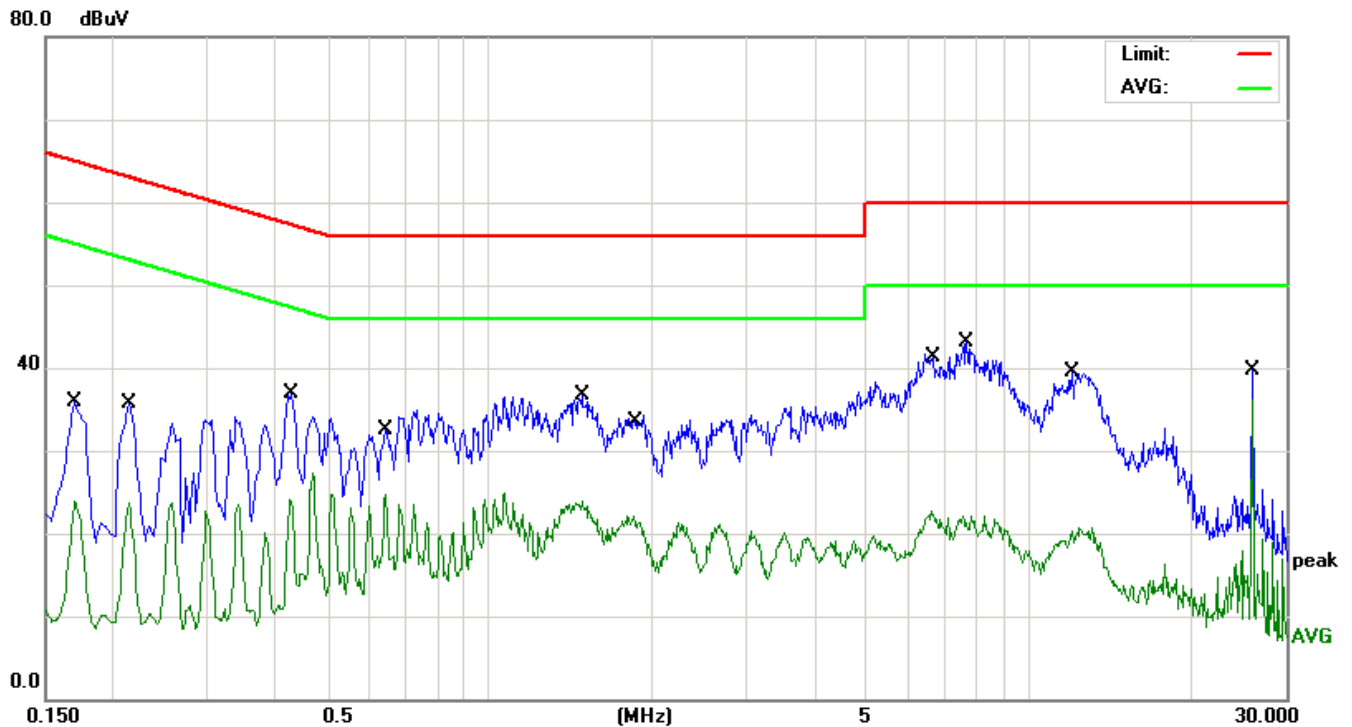
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1700	24.94	11.62	36.56	64.96	-28.40	QP
2		0.1700	13.05	11.62	24.67	54.96	-30.29	AVG
3		0.4260	26.47	10.90	37.37	57.33	-19.96	QP
4		0.4700	16.42	10.84	27.26	46.51	-19.25	AVG
5		1.0620	14.37	10.63	25.00	46.00	-21.00	AVG
6		1.1460	26.19	10.62	36.81	56.00	-19.19	QP
7		2.3179	11.66	10.58	22.24	46.00	-23.76	AVG
8		3.1700	24.18	10.57	34.75	56.00	-21.25	QP
9		8.0340	11.39	10.58	21.97	50.00	-28.03	AVG
10		12.4980	29.63	10.58	40.21	60.00	-19.79	QP
11		26.0020	29.03	10.60	39.63	60.00	-20.37	QP
12	*	26.0020	25.61	10.60	36.21	50.00	-13.79	AVG

EUT	Mobile phone	Model Name	X5
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	March 15, 2017	Test Mode	Mode 5



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1700	27.76	11.62	39.38	64.96	-25.58	QP
2		0.1700	21.55	11.62	33.17	54.96	-21.79	AVG
3	*	0.4700	28.02	10.84	38.86	46.51	-7.65	AVG
4		0.4740	33.15	10.83	43.98	56.44	-12.46	QP
5		1.3619	22.49	10.62	33.11	46.00	-12.89	AVG
6		1.4340	32.05	10.62	42.67	56.00	-13.33	QP
7		2.2780	20.28	10.58	30.86	46.00	-15.14	AVG
8		2.9739	28.42	10.57	38.99	56.00	-17.01	QP
9		6.3620	15.47	10.56	26.03	50.00	-23.97	AVG
10		6.6580	29.31	10.56	39.87	60.00	-20.13	QP
11		25.9980	31.00	10.60	41.60	60.00	-18.40	QP
12		26.0020	26.10	10.60	36.70	50.00	-13.30	AVG

EUT	Mobile phone	Model Name	X5
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	March 15, 2017	Test Mode	Mode 5



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1700	24.25	11.62	35.87	64.96	-29.09	QP
2		0.1700	12.27	11.62	23.89	54.96	-31.07	AVG
3		0.2140	12.59	11.18	23.77	53.04	-29.27	AVG
4		0.4300	26.03	10.90	36.93	57.25	-20.32	QP
5		0.6419	14.03	10.77	24.80	46.00	-21.20	AVG
6		1.4860	26.10	10.62	36.72	56.00	-19.28	QP
7		1.8540	11.53	10.60	22.13	46.00	-23.87	AVG
8		6.6140	12.07	10.56	22.63	50.00	-27.37	AVG
9		7.6660	32.56	10.57	43.13	60.00	-16.87	QP
10		12.0060	28.86	10.58	39.44	60.00	-20.56	QP
11		26.0020	29.13	10.60	39.73	60.00	-20.27	QP
12	*	26.0020	25.50	10.60	36.10	50.00	-13.90	AVG

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 (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 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 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:

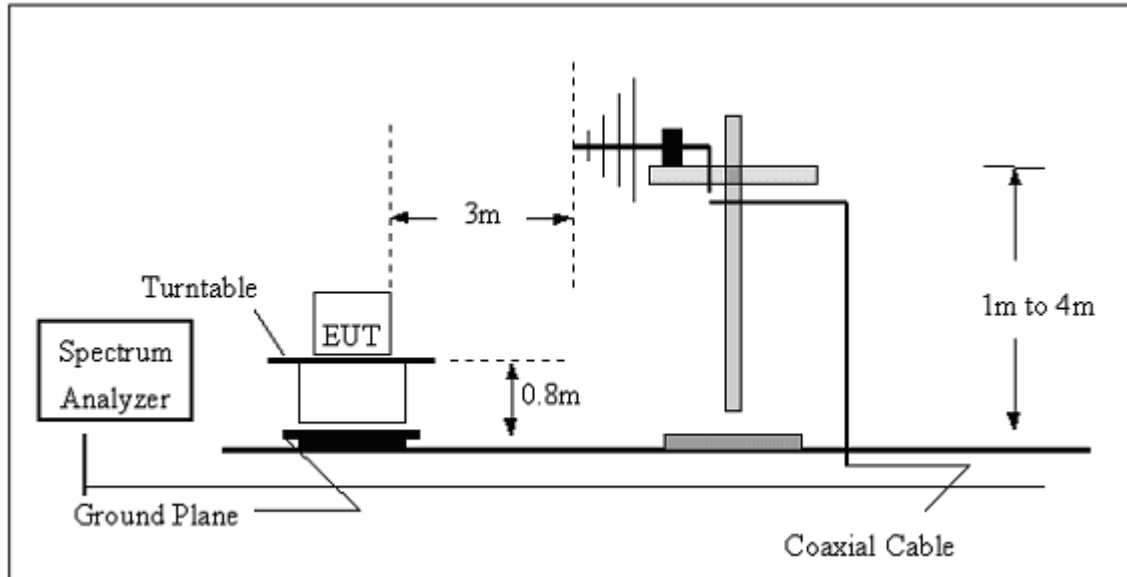
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.2.3 DEVIATION FROM TEST STANDARD

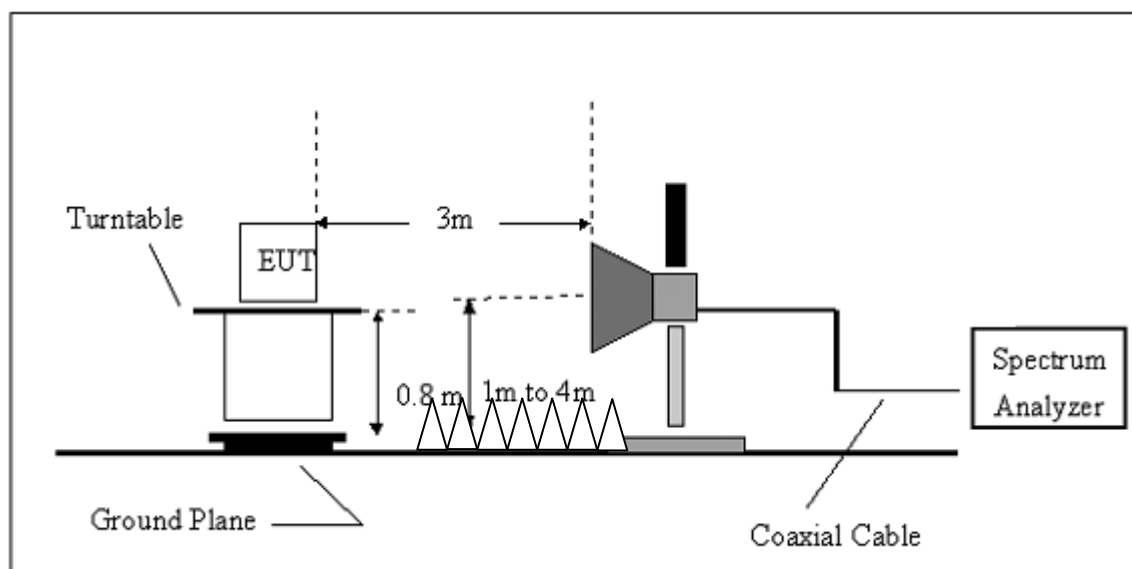
No deviation

5.2.4 TEST SETUP

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



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

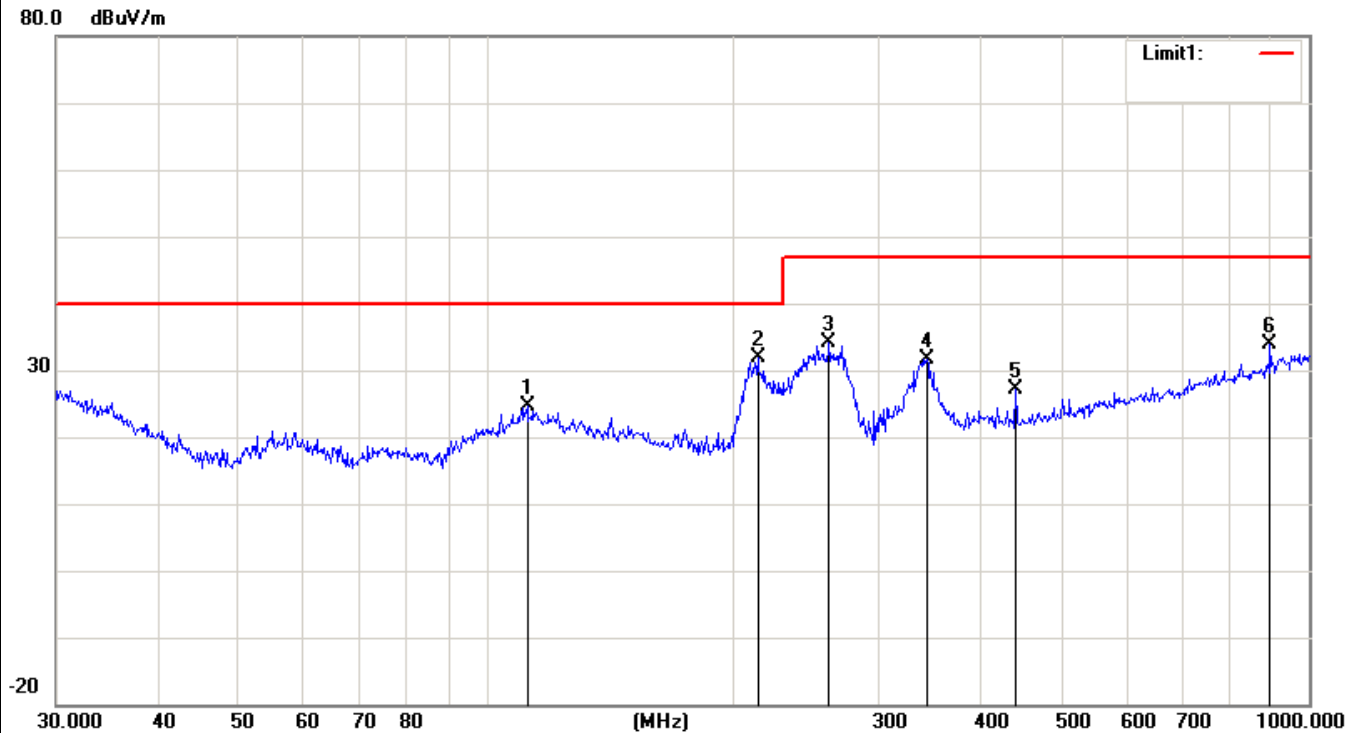


5.2.5 EUT OPERATING CONDITIONS

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)

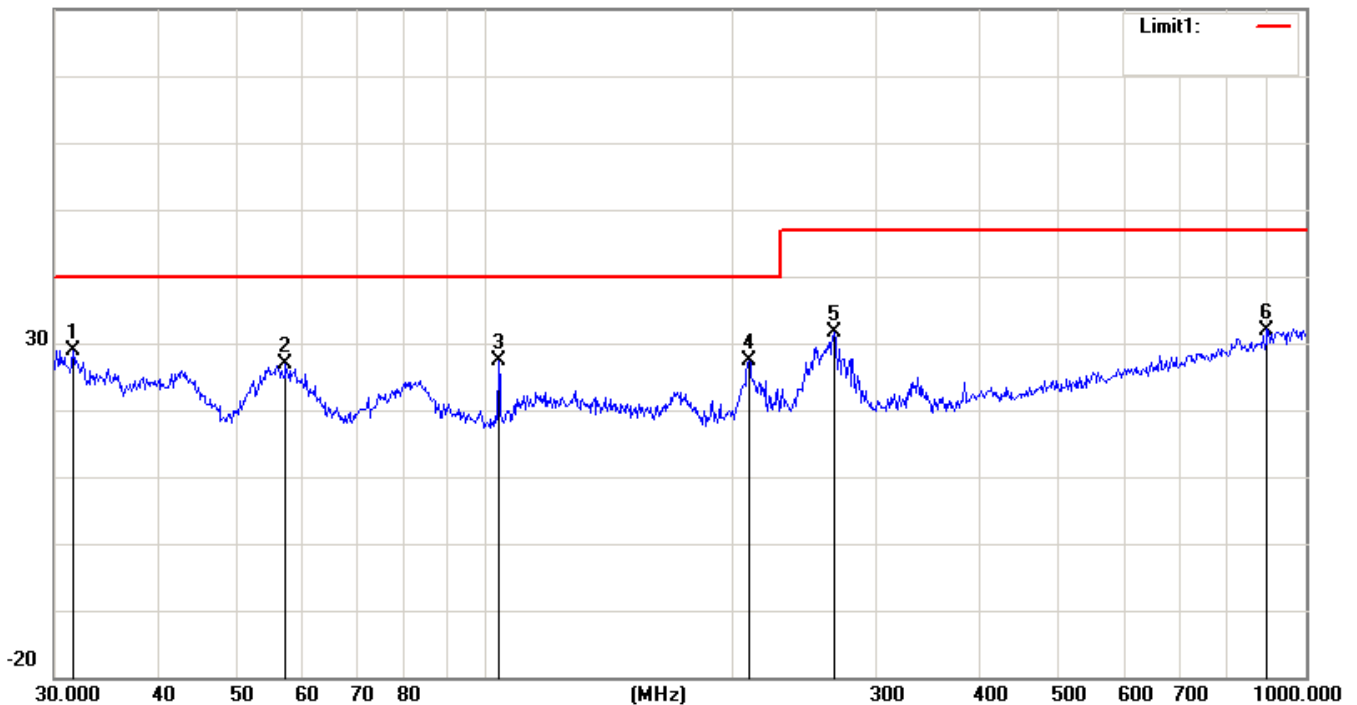
EUT	Mobile phone	Model Name	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 1	Test Date	March 15, 2017



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		112.1303	27.98	-3.23	24.75	40.00	-15.25	QP
2	*	213.7632	37.24	-5.31	31.93	40.00	-8.07	QP
3		261.0581	40.65	-6.41	34.24	47.00	-12.76	QP
4		343.1800	36.10	-4.44	31.66	47.00	-15.34	QP
5		440.1963	29.44	-2.30	27.14	47.00	-19.86	QP
6		896.9963	28.21	5.59	33.80	47.00	-13.20	QP

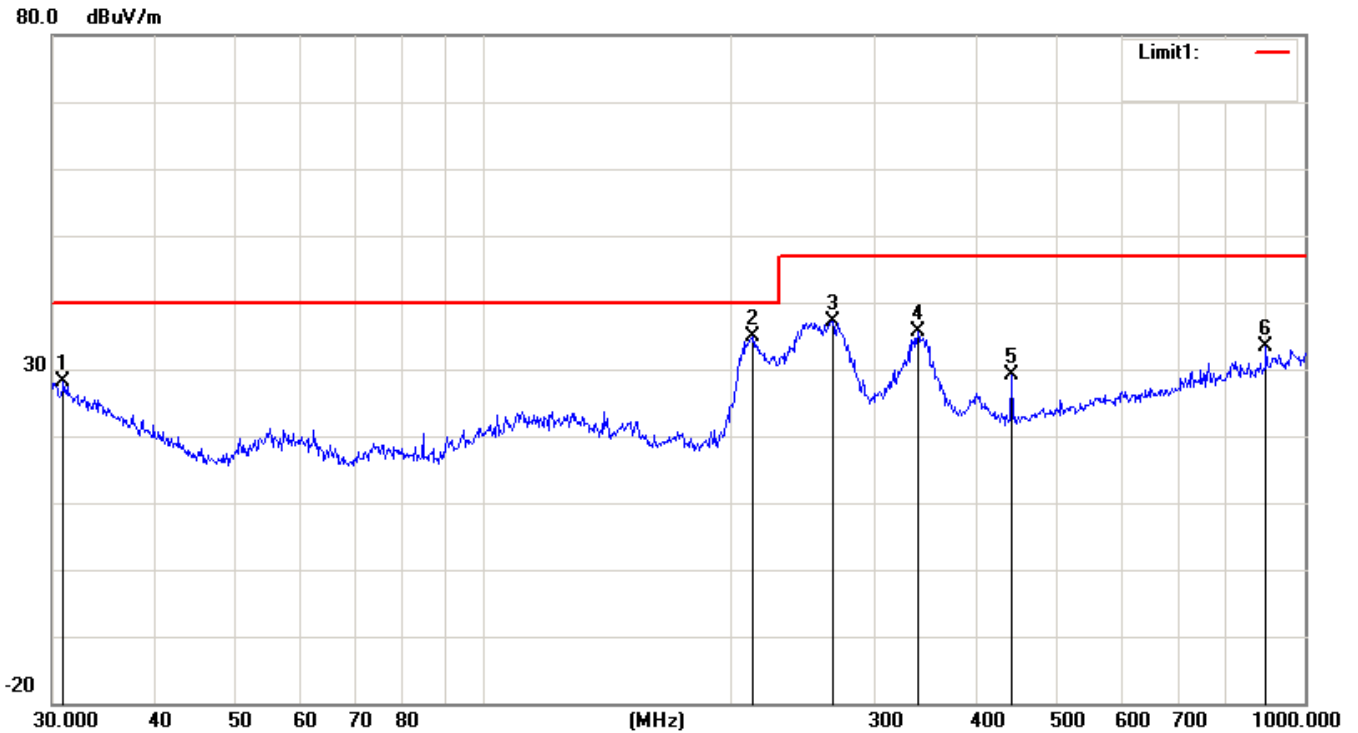
EUT	Mobile phone	Model Name	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 1	Test Date	March 15, 2017

80.0 dBuV/m



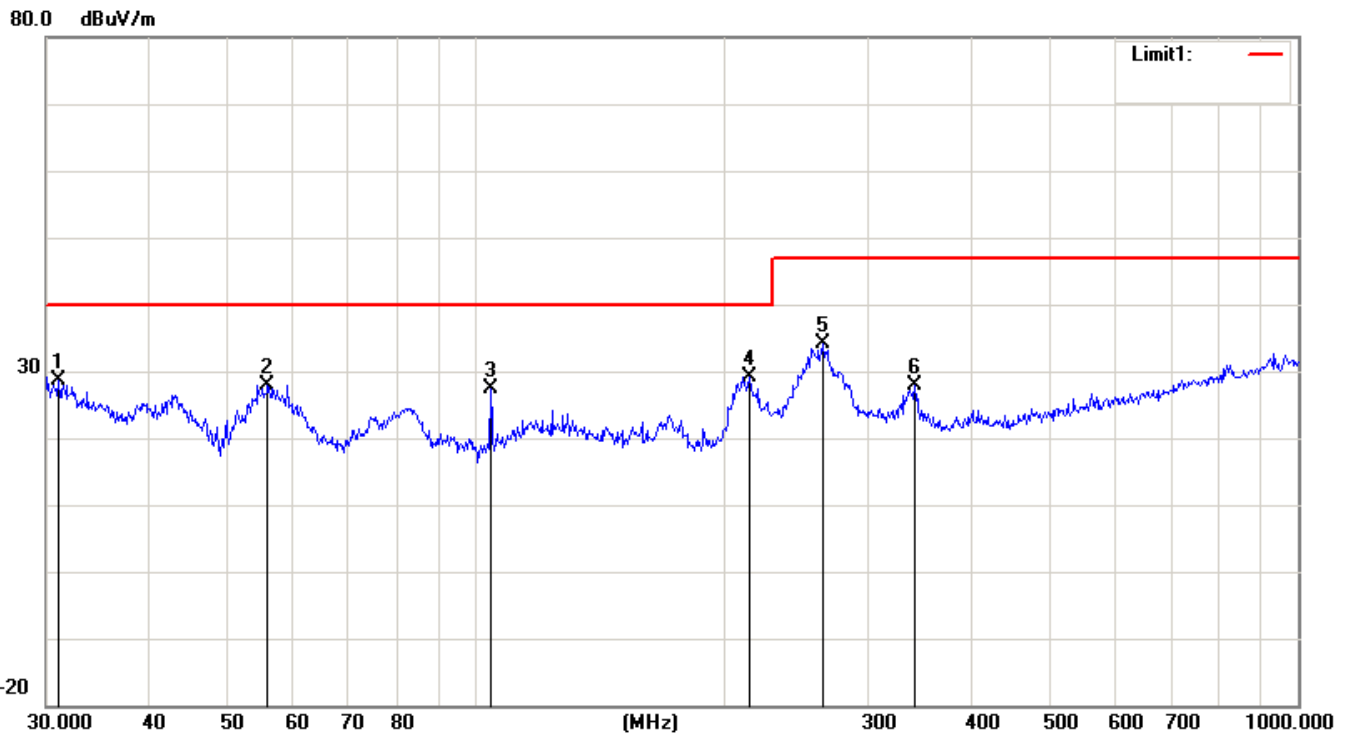
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	31.6202	26.54	2.40	28.94	40.00	-11.06	QP
2		57.3922	36.30	-9.44	26.86	40.00	-13.14	QP
3		104.1701	32.45	-5.18	27.27	40.00	-12.73	QP
4		210.0482	32.46	-5.18	27.28	40.00	-12.72	QP
5		266.6089	37.87	-6.31	31.56	47.00	-15.44	QP
6		896.9963	26.41	5.59	32.00	47.00	-15.00	QP

EUT	Mobile phone	Model Name	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 2	Test Date	March 15, 2017



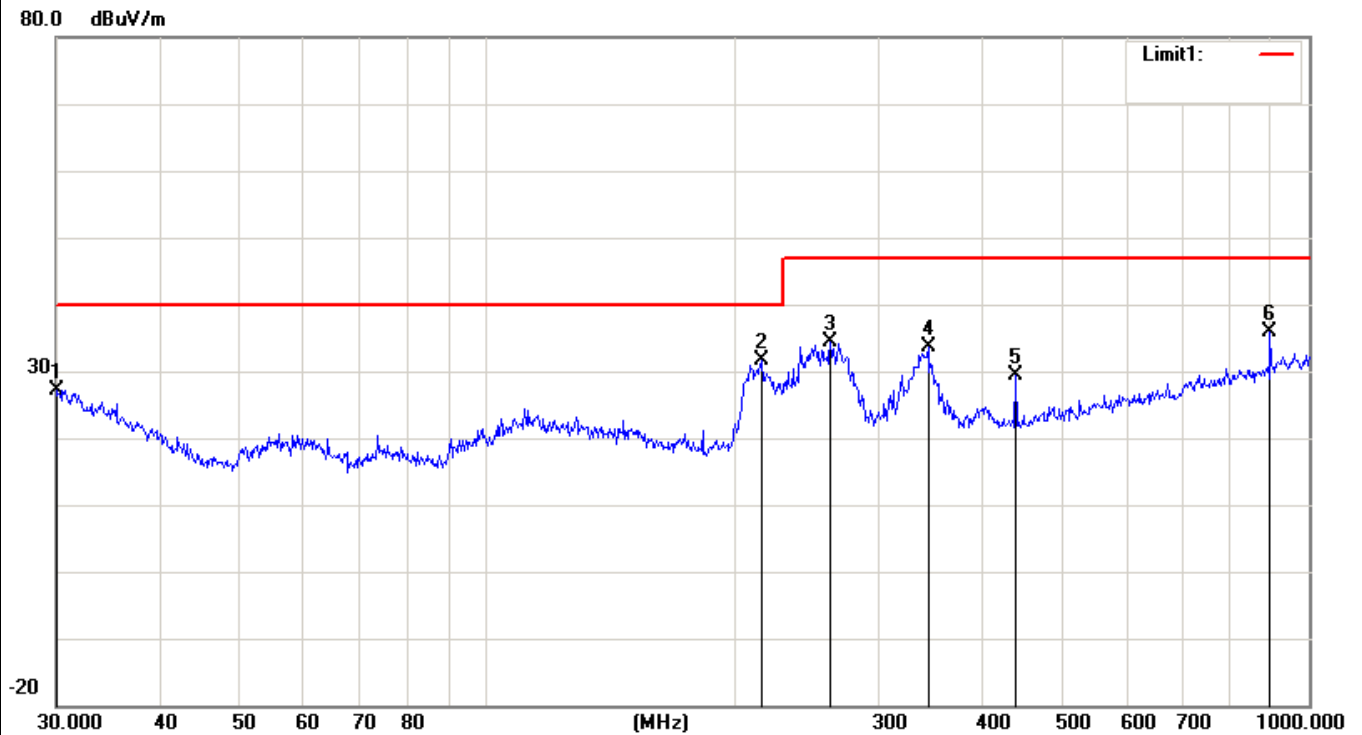
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		30.9618	25.35	2.85	28.20	40.00	-11.80	QP
2	*	213.0149	40.21	-5.28	34.93	40.00	-5.07	QP
3		266.6089	43.55	-6.31	37.24	47.00	-9.76	QP
4		338.4001	40.25	-4.58	35.67	47.00	-11.33	QP
5		440.1963	31.35	-2.30	29.05	47.00	-17.95	QP
6		896.9963	27.67	5.59	33.26	47.00	-13.74	QP

EUT	Mobile phone	Model Name	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 2	Test Date	March 15, 2017



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		31.0702	25.85	2.77	28.62	40.00	-11.38	QP
2		55.8046	37.43	-9.48	27.95	40.00	-12.05	QP
3		104.1701	32.47	-5.18	27.29	40.00	-12.71	QP
4	*	215.2675	34.61	-5.36	29.25	40.00	-10.75	QP
5		264.7456	40.43	-6.34	34.09	47.00	-12.91	QP
6		341.9786	32.25	-4.49	27.76	47.00	-19.24	QP

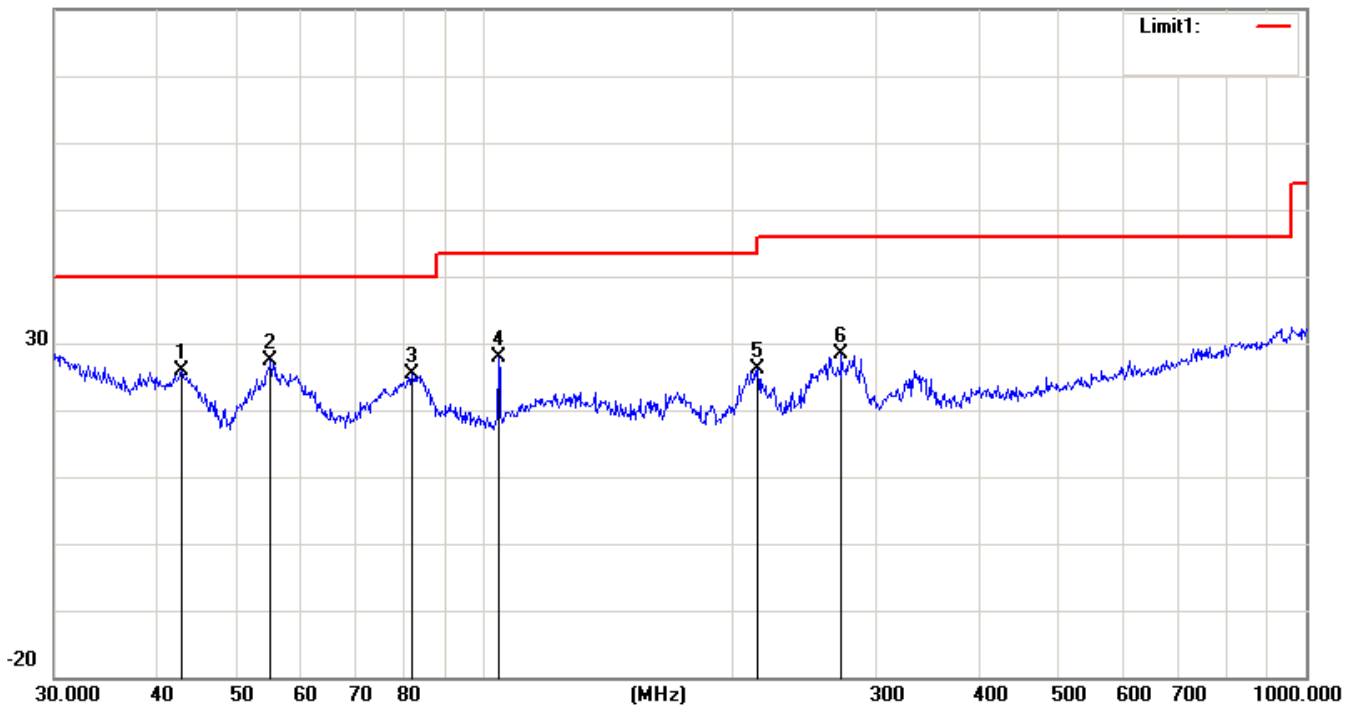
EUT	Mobile phone	Model Name	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 3	Test Date	March 15, 2017



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		30.1051	23.65	3.42	27.07	40.00	-12.93	QP
2	*	216.0240	36.93	-5.39	31.54	40.00	-8.46	QP
3		261.9753	40.69	-6.39	34.30	47.00	-12.70	QP
4		344.3854	38.08	-4.41	33.67	47.00	-13.33	QP
5		440.1963	31.75	-2.30	29.45	47.00	-17.55	QP
6		896.9963	30.36	5.59	35.95	47.00	-11.05	QP

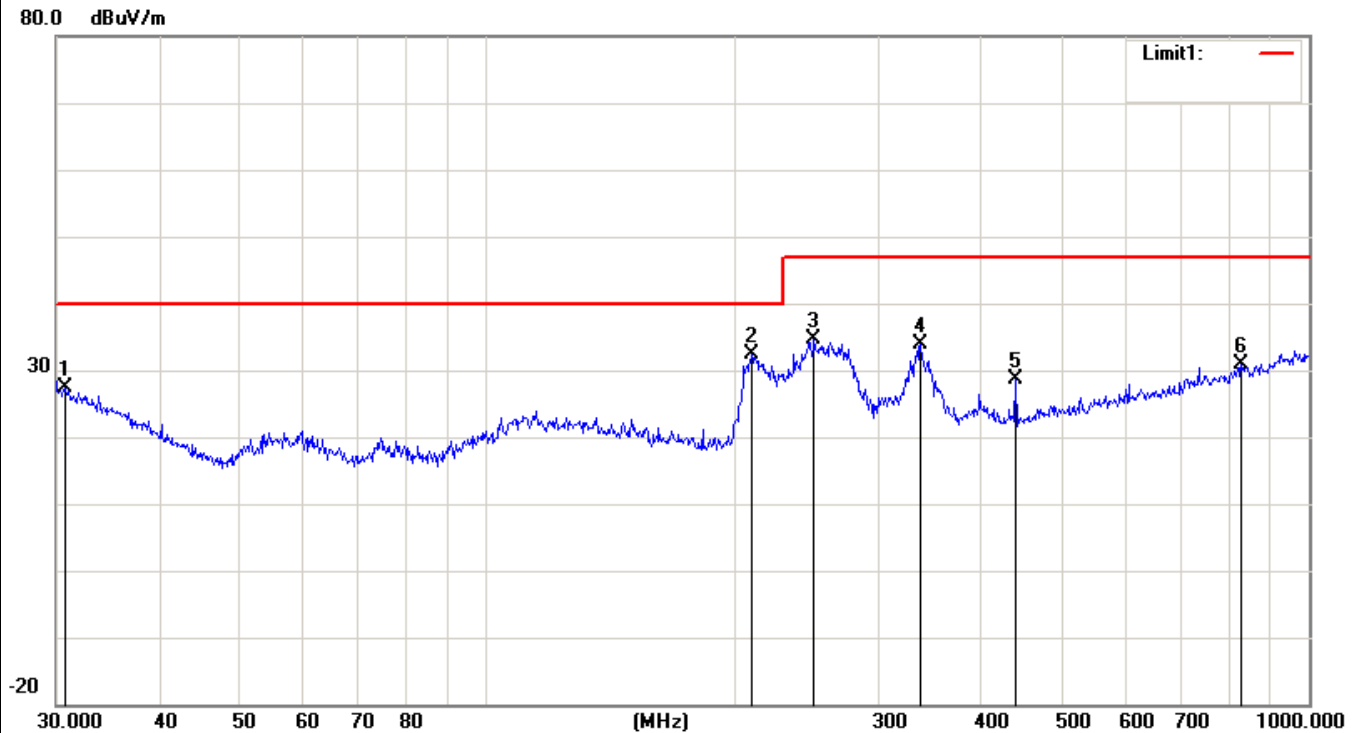
EUT	Mobile phone	Model Name	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 3	Test Date	March 15, 2017

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		42.8997	31.20	-5.36	25.84	40.00	-14.16	QP
2	*	55.0274	36.82	-9.50	27.32	40.00	-12.68	QP
3		81.7831	33.13	-7.82	25.31	40.00	-14.69	QP
4		104.1701	32.97	-5.18	27.79	43.50	-15.71	QP
5		215.2675	31.47	-5.36	26.11	43.50	-17.39	QP
6		272.2776	34.70	-6.22	28.48	46.00	-17.52	QP

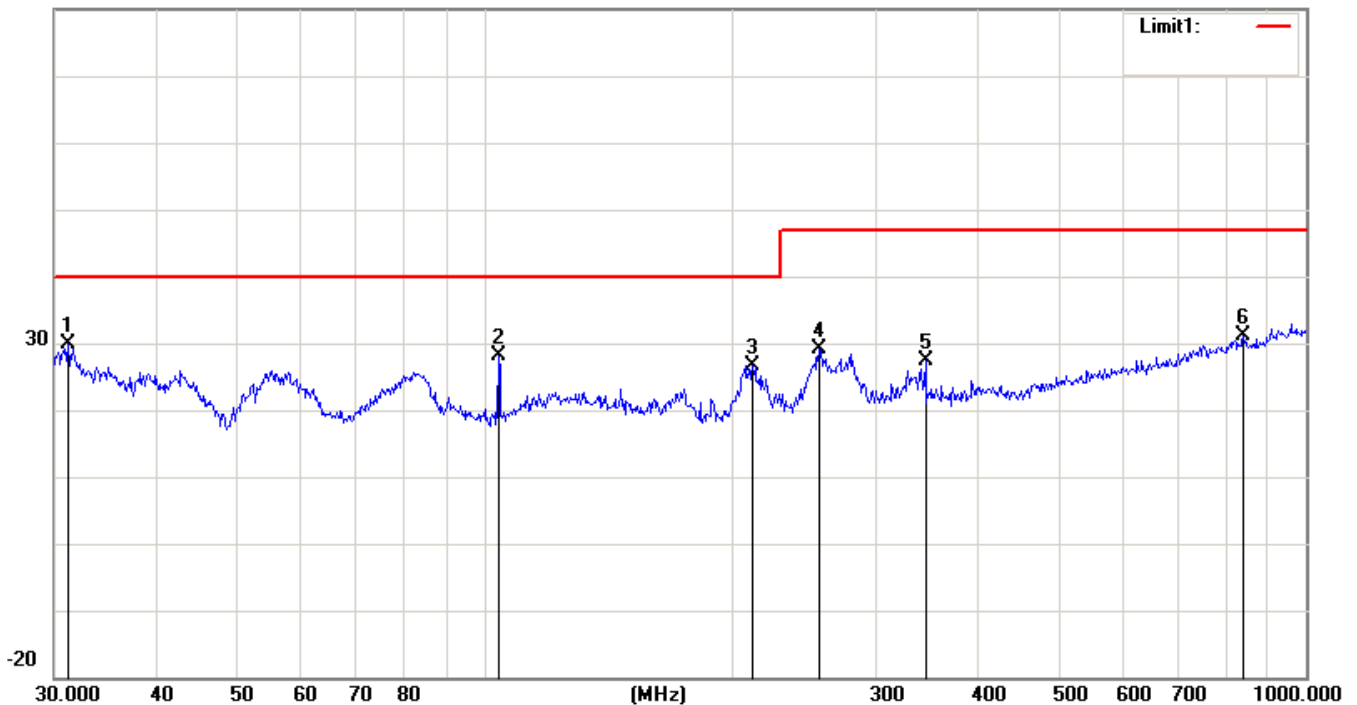
EUT	Mobile phone	Model Name	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 4	Test Date	March 15, 2017



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		30.7454	24.32	2.99	27.31	40.00	-12.69	QP
2	*	210.0482	37.66	-5.18	32.48	40.00	-7.52	QP
3		250.3009	41.34	-6.59	34.75	47.00	-12.25	QP
4		337.2155	38.41	-4.62	33.79	47.00	-13.21	QP
5		440.1963	30.92	-2.30	28.62	47.00	-18.38	QP
6		827.4932	25.81	5.18	30.99	47.00	-16.01	QP

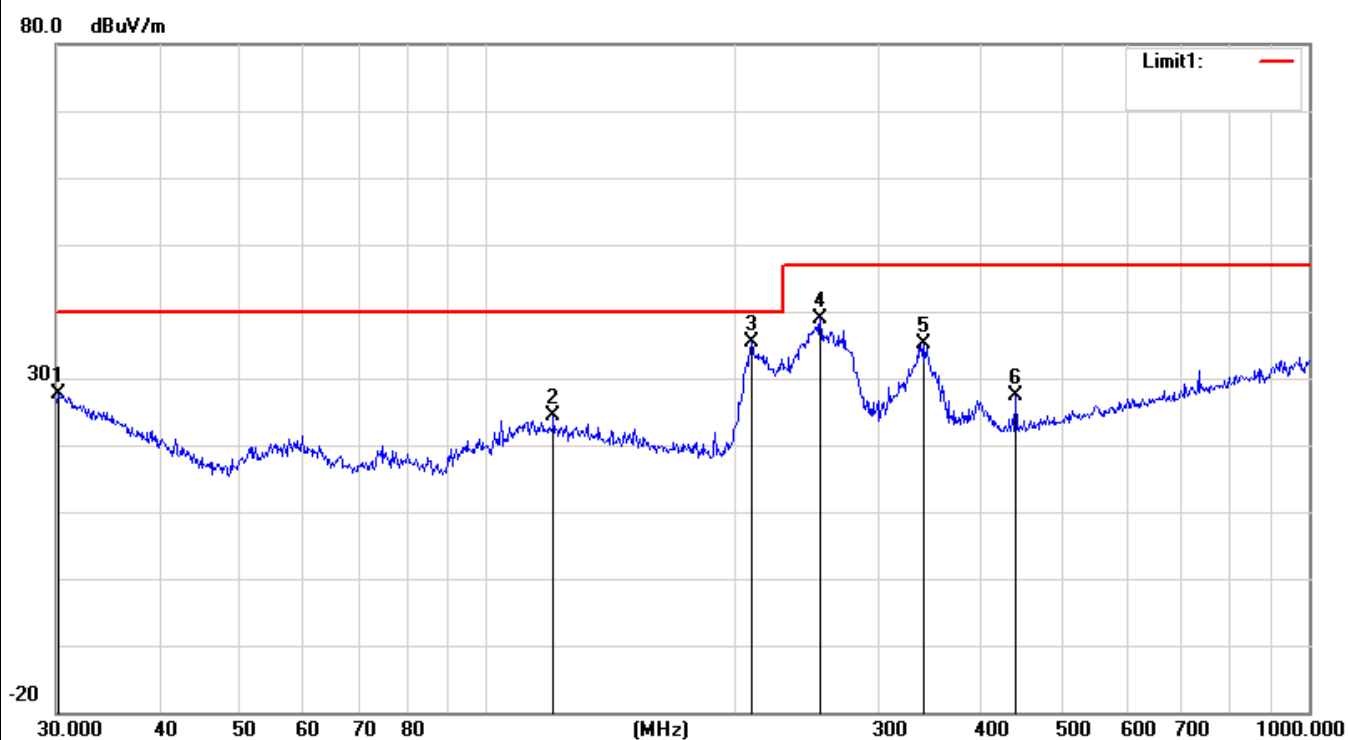
EUT	Mobile phone	Model Name	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 4	Test Date	March 15, 2017

80.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	31.1798	27.14	2.70	29.84	40.00	-10.16	QP
2		104.1701	33.30	-5.18	28.12	40.00	-11.88	QP
3		212.2692	31.92	-5.26	26.66	40.00	-13.34	QP
4		255.6228	35.55	-6.50	29.05	47.00	-17.95	QP
5		344.3854	31.76	-4.41	27.35	47.00	-19.65	QP
6		839.1816	26.12	4.90	31.02	47.00	-15.98	QP

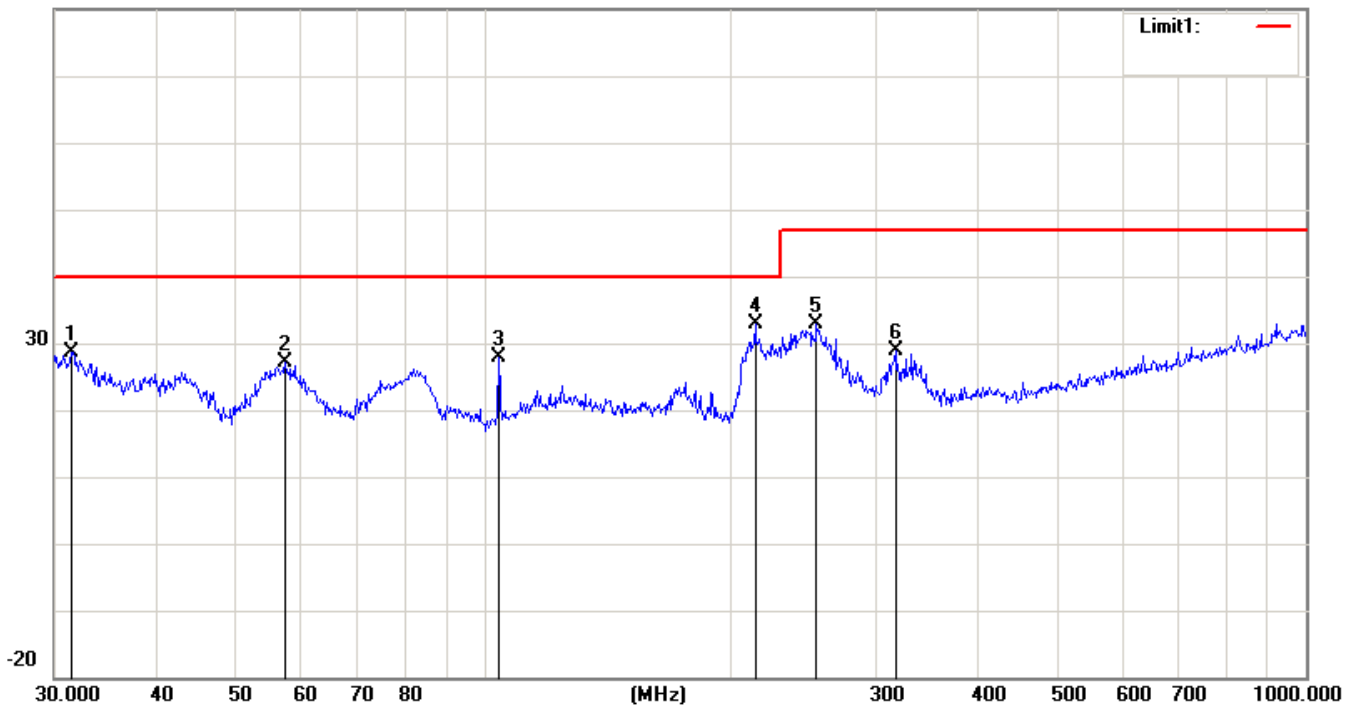
EUT	Mobile phone	Model Name	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 5	Test Date	March 15, 2017



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		30.2107	24.21	3.35	27.56	40.00	-12.44	QP
2		120.6991	26.72	-2.29	24.43	40.00	-15.57	QP
3	*	210.0482	40.44	-5.18	35.26	40.00	-4.74	QP
4		254.7281	45.51	-6.51	39.00	47.00	-8.00	QP
5		340.7817	39.60	-4.53	35.07	47.00	-11.93	QP
6		440.1963	29.56	-2.30	27.26	47.00	-19.74	QP

EUT	Mobile phone	Model Name	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 5	Test Date	March 15, 2017

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		31.5091	26.14	2.47	28.61	40.00	-11.39	QP
2		57.1914	36.67	-9.46	27.21	40.00	-12.79	QP
3		104.1701	33.04	-5.18	27.86	40.00	-12.14	QP
4	*	213.7632	38.22	-5.31	32.91	40.00	-7.09	QP
5		253.8367	39.39	-6.53	32.86	47.00	-14.14	QP
6		316.5889	33.27	-4.44	28.83	47.00	-18.17	QP

5.2.5.2 TEST RESULTS (1GHZ TO 6GHZ)

EUT	Mobile phone	Model Name	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1
Test Date	March 15, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
1632.45	V	60.01	41.74	74	54	-13.99	-12.26
2829.27	V	58.38	39.17	74	54	-15.62	-14.83
1684.52	H	59.75	39.02	74	54	-14.25	-14.98
2831.6	H	58.51	39.51	74	54	-15.49	-14.49

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	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 2
Test Date	March 15, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
1583.35	V	58.47	39.24	74	54	-15.53	-14.76
2641.52	V	59.81	39.37	74	54	-14.19	-14.63
1628.42	H	59.02	39.22	74	54	-14.98	-14.78
2810.39	H	58.49	39.49	74	54	-15.51	-14.51

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	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 3
Test Date	March 15, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1577.35	V	58.92	39.06	74	54	-15.08	-14.94
2652.38	V	59.81	40.66	74	54	-14.19	-13.34
1699.33	H	60.00	40.41	74	54	-14.00	-13.59
2739.42	H	59.51	40.51	74	54	-14.49	-13.49

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	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 4
Test Date	March 15, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1583.35	V	58.68	41.86	74	54	-15.32	-12.14
2641.52	V	59.35	39.70	74	54	-14.65	-14.30
1628.42	H	59.76	40.38	74	54	-14.24	-13.62
2810.39	H	59.87	40.87	74	54	-14.13	-13.13

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	X5
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 5
Test Date	March 15, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1577.35	V	58.33	40.00	74	54	-15.67	-14.00
2652.38	V	59.64	40.68	74	54	-14.36	-13.32
1699.33	H	58.91	39.90	74	54	-15.09	-14.10
2739.42	H	59.46	40.46	74	54	-14.54	-13.54

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

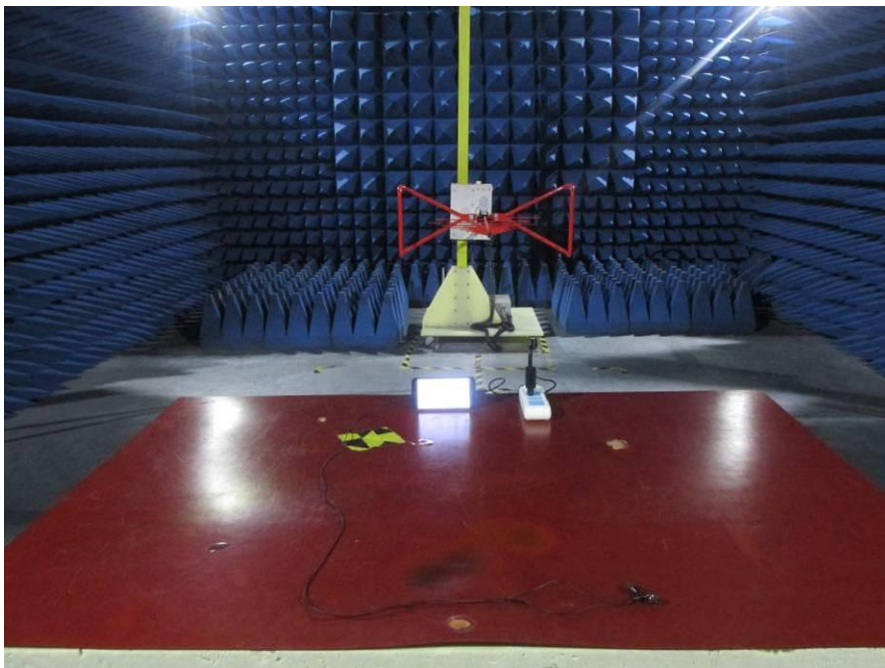
CONDUCTED EMISSION TEST



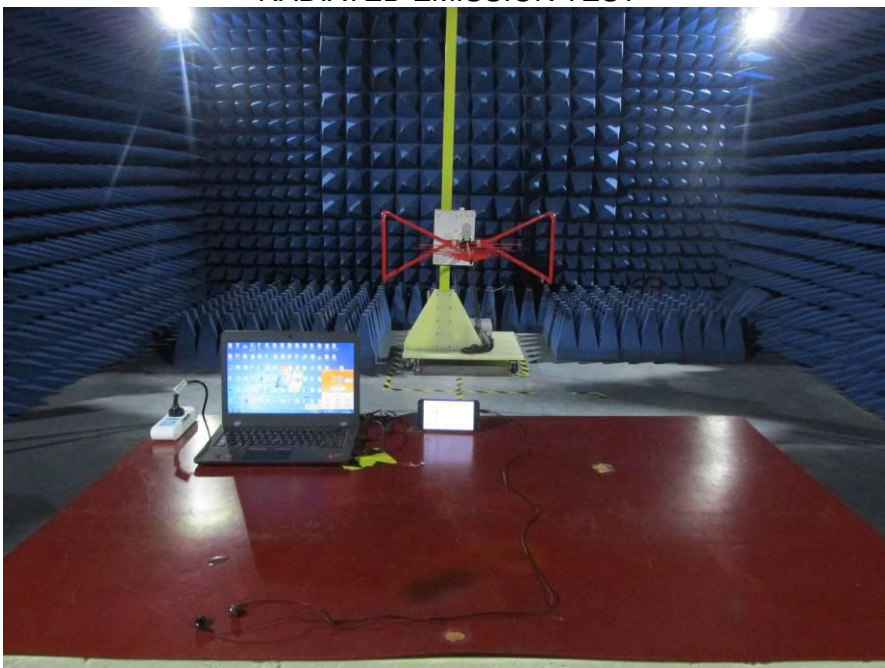
CONDUCTED EMISSION TEST



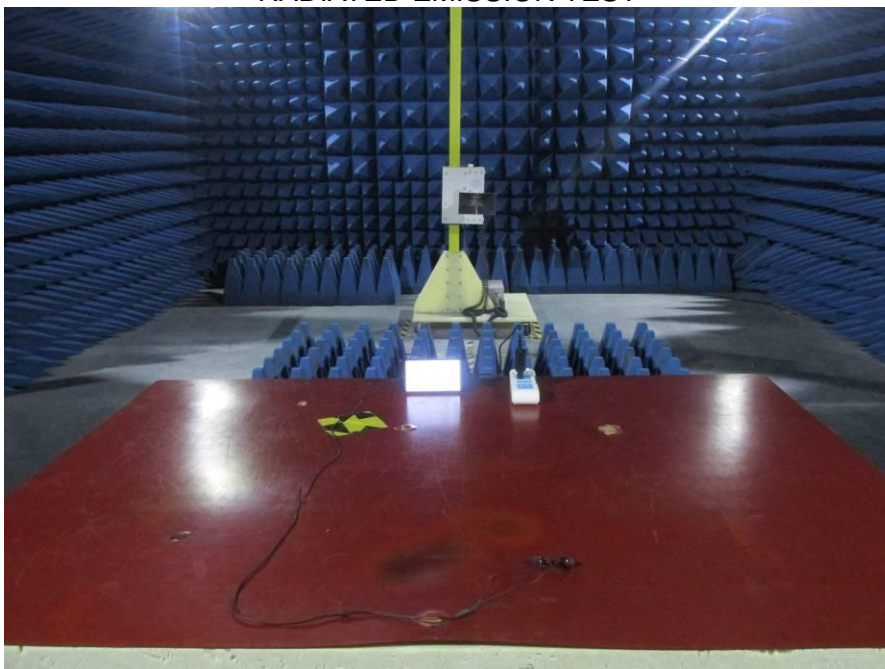
RADIATED EMISSION TEST



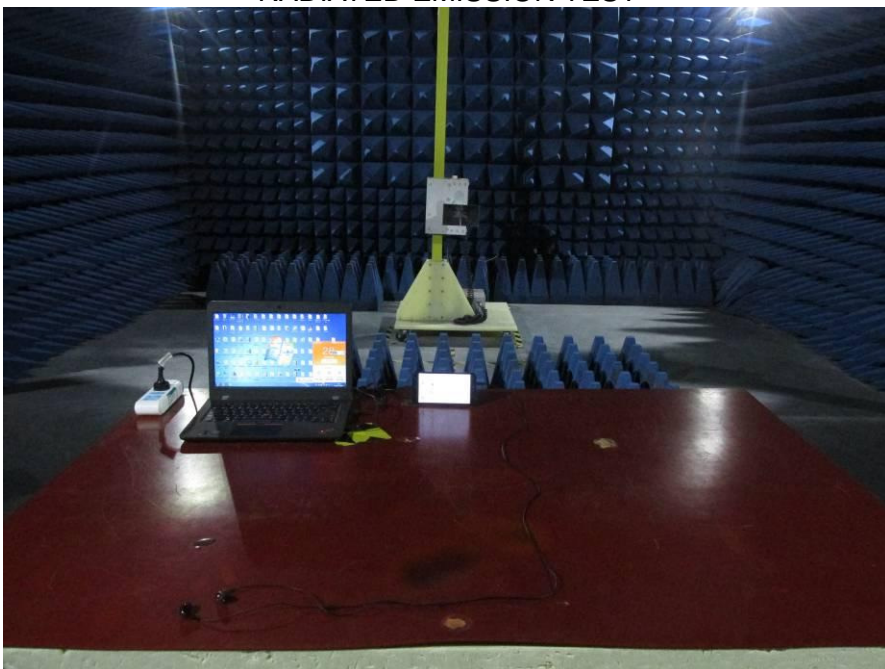
RADIATED EMISSION TEST



RADIATED EMISSION TEST



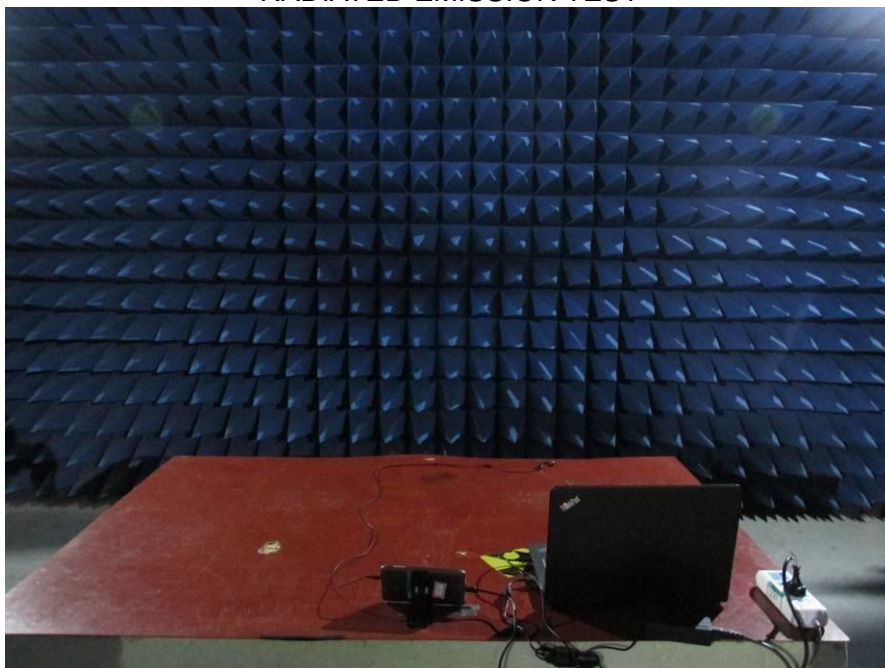
RADIATED EMISSION TEST



RADIATED EMISSION TEST



RADIATED EMISSION TEST

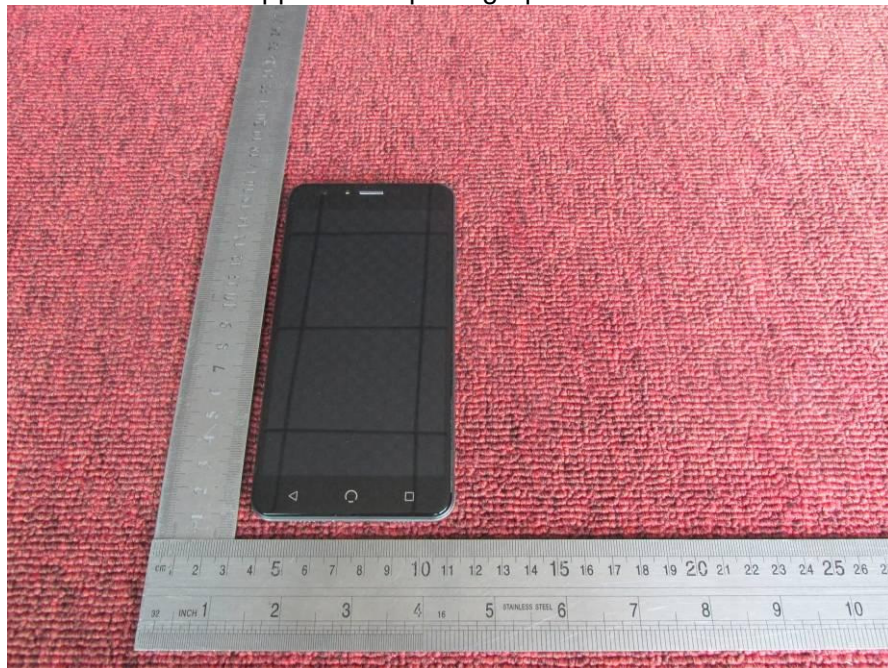


7. PHOTOGRAPHS OF EUT

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



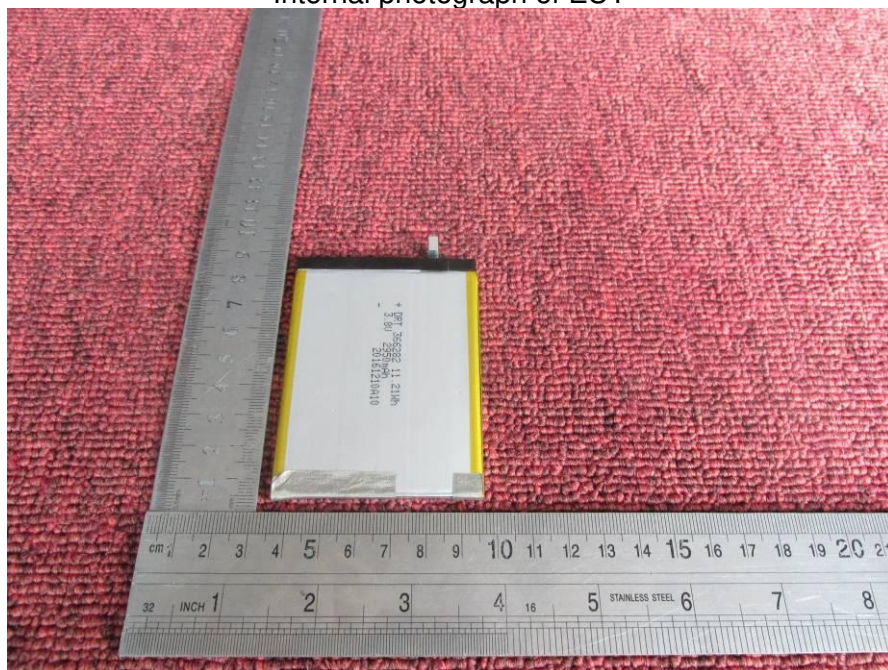
Internal photograph of EUT



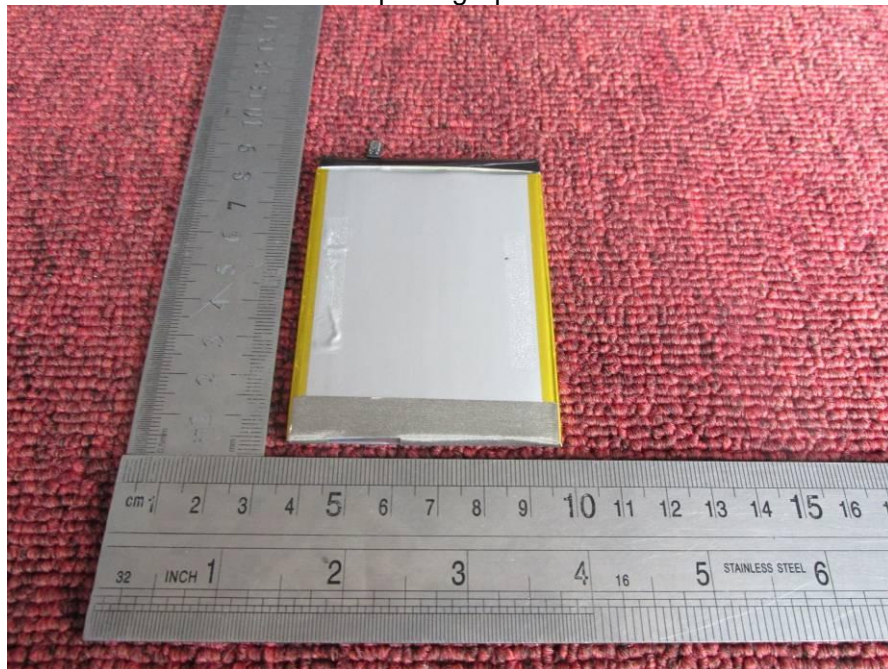
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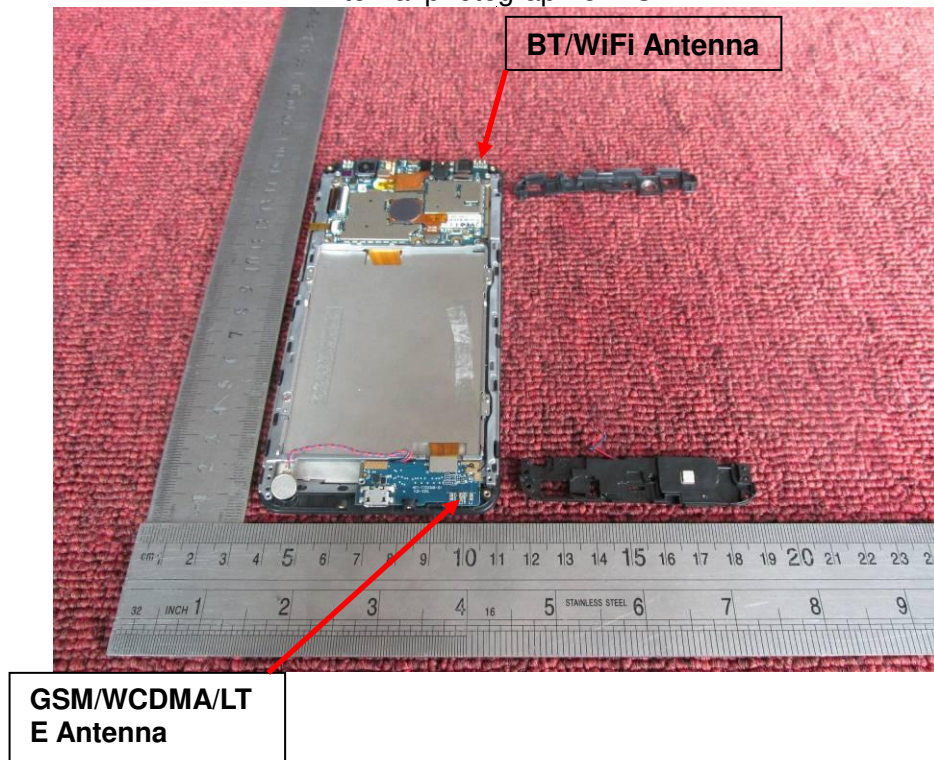
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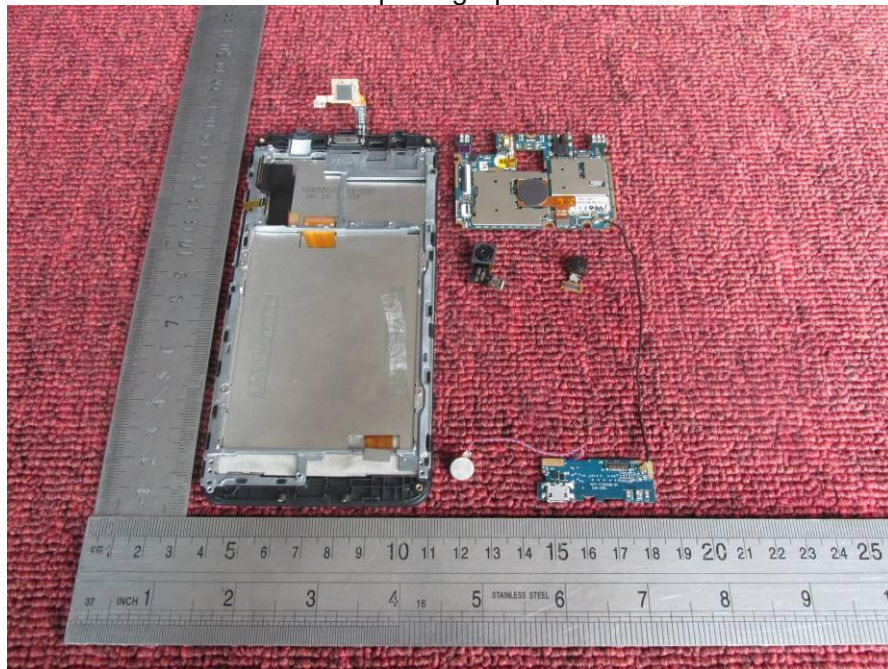
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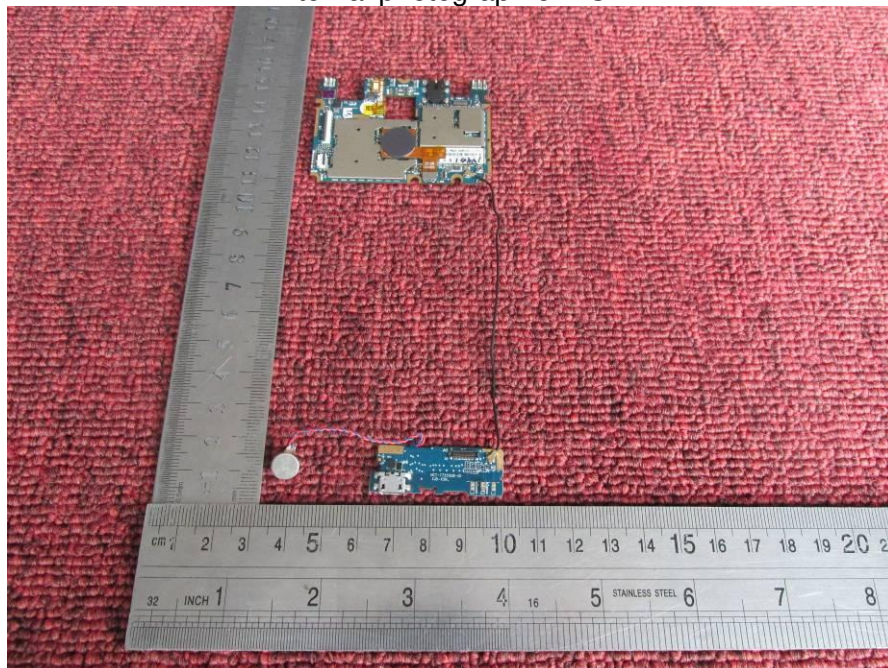
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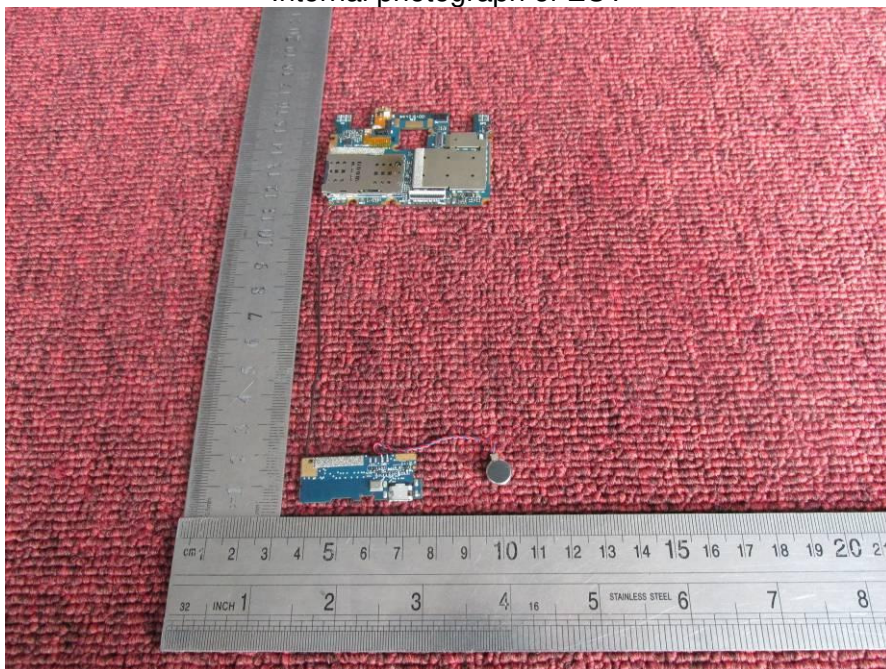
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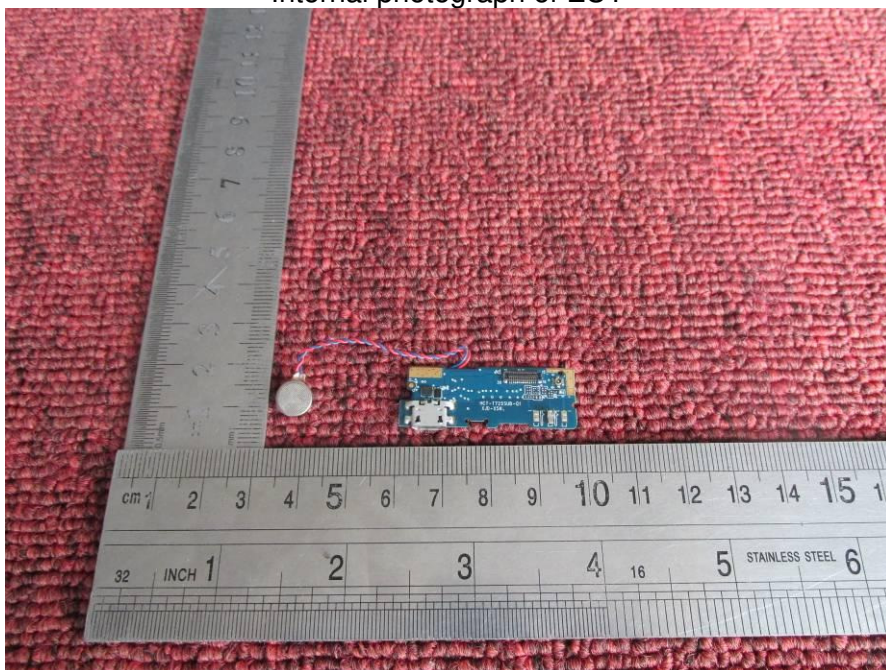
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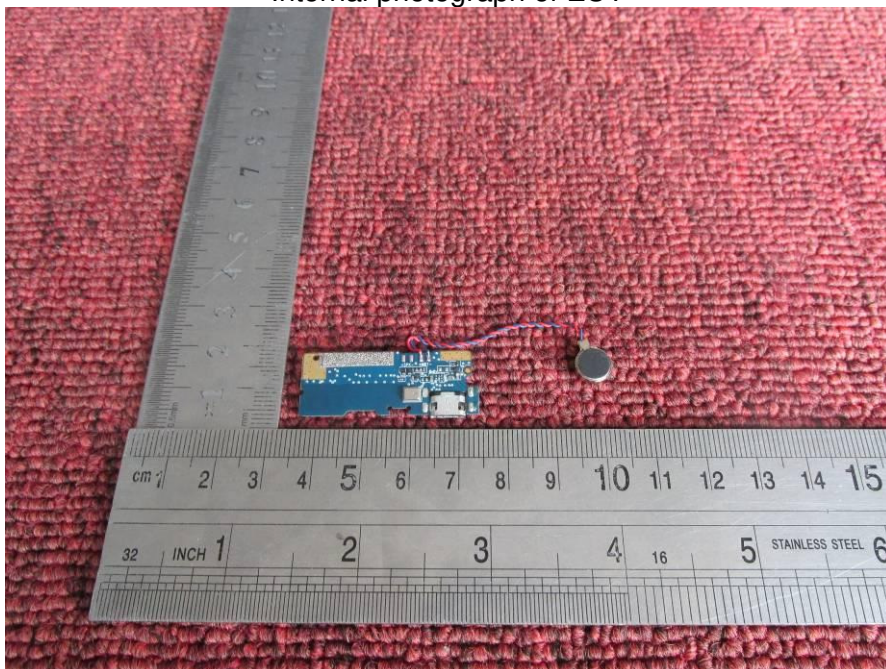
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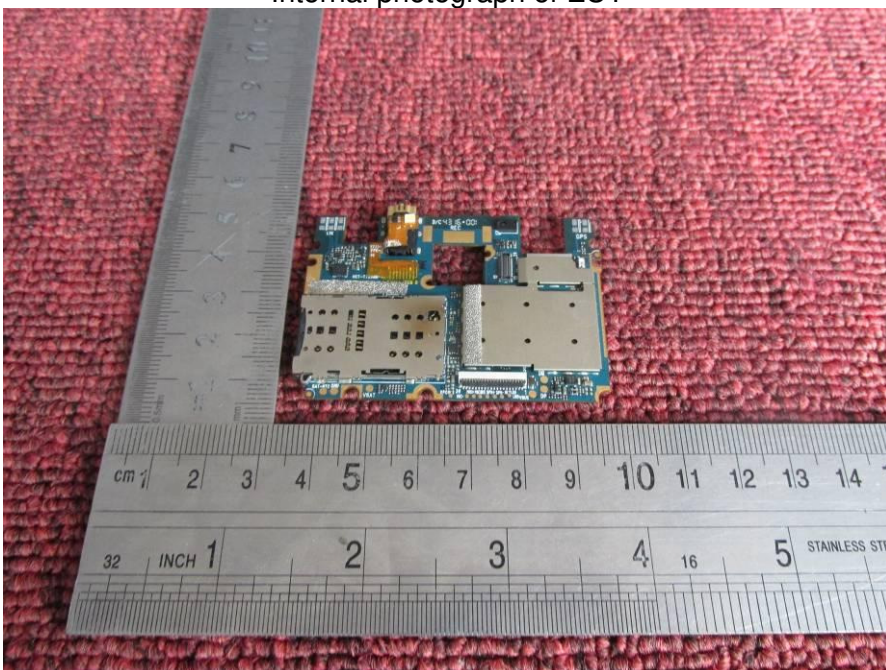
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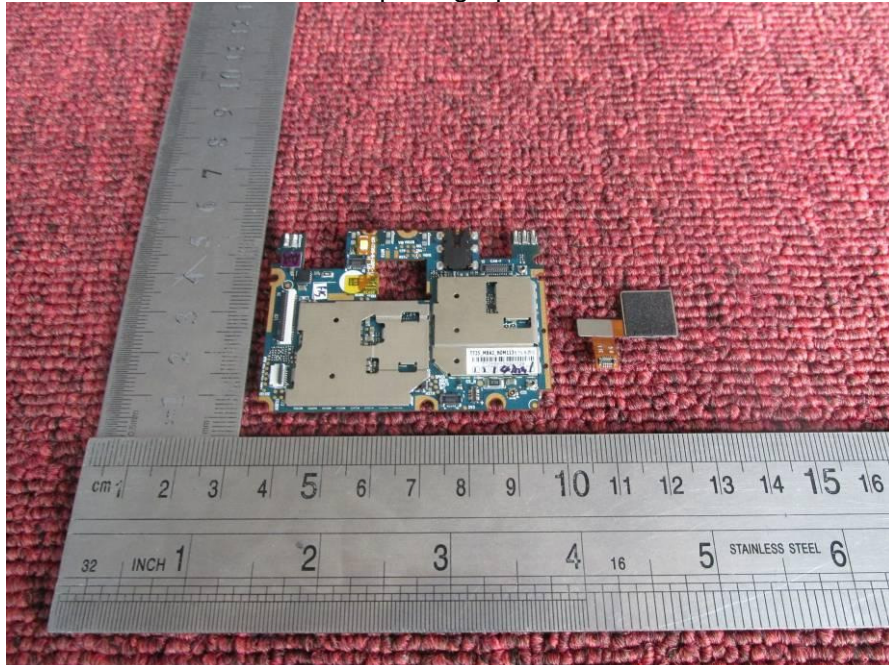
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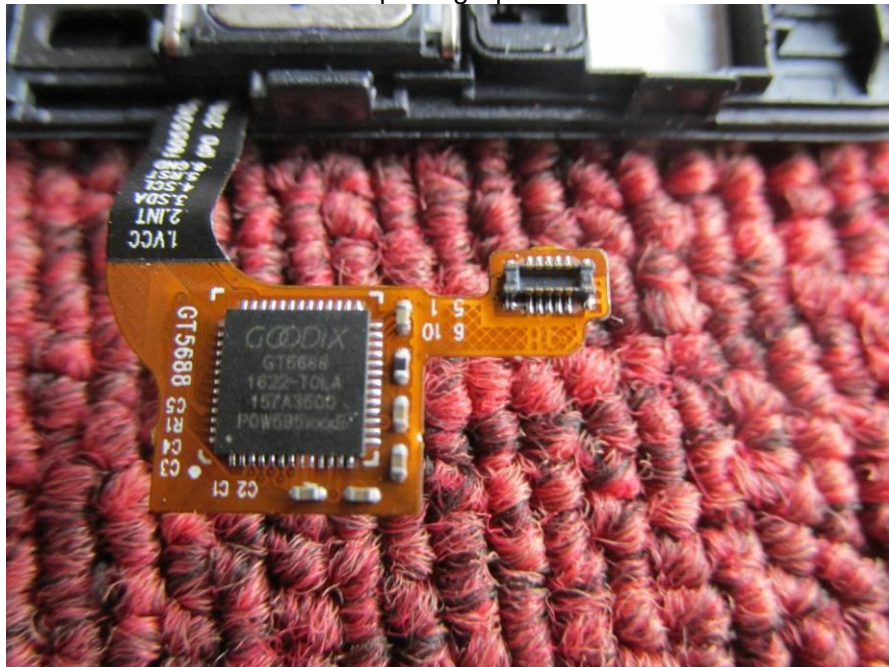
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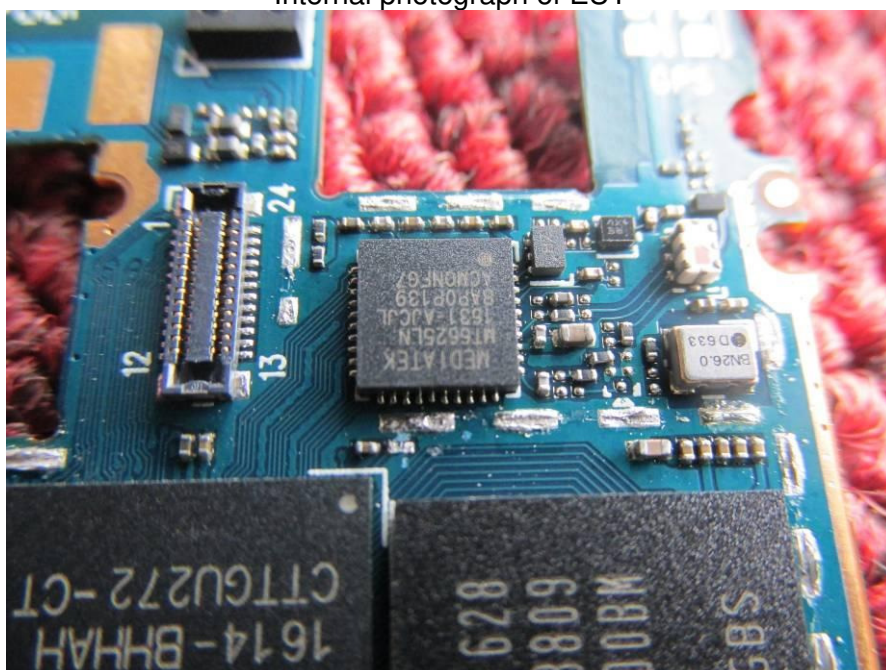
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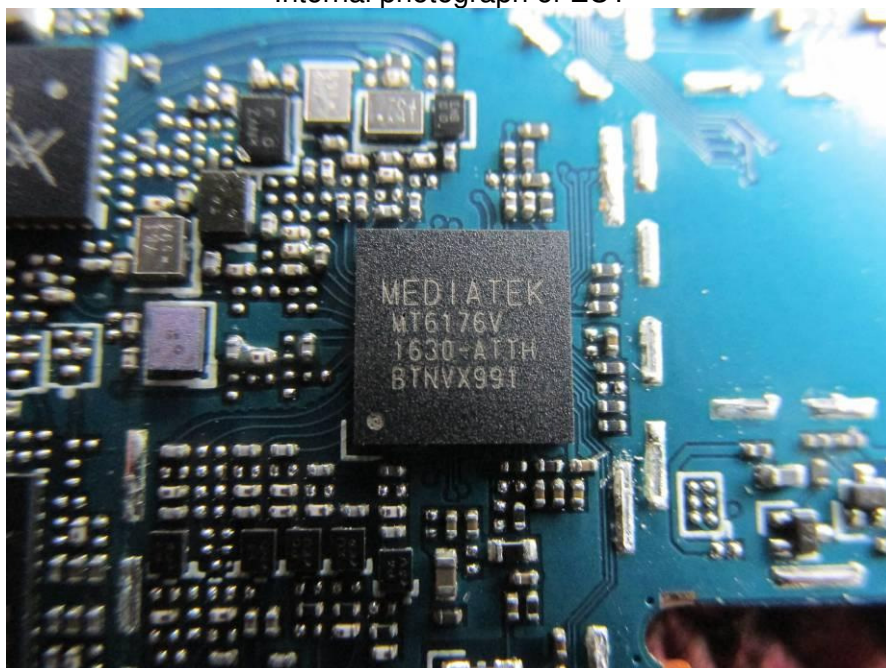
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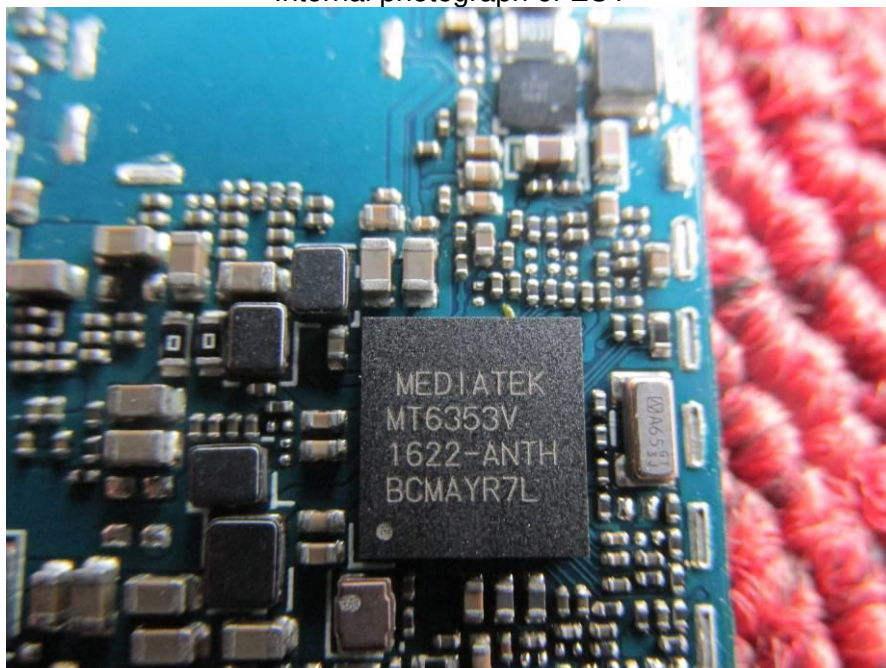
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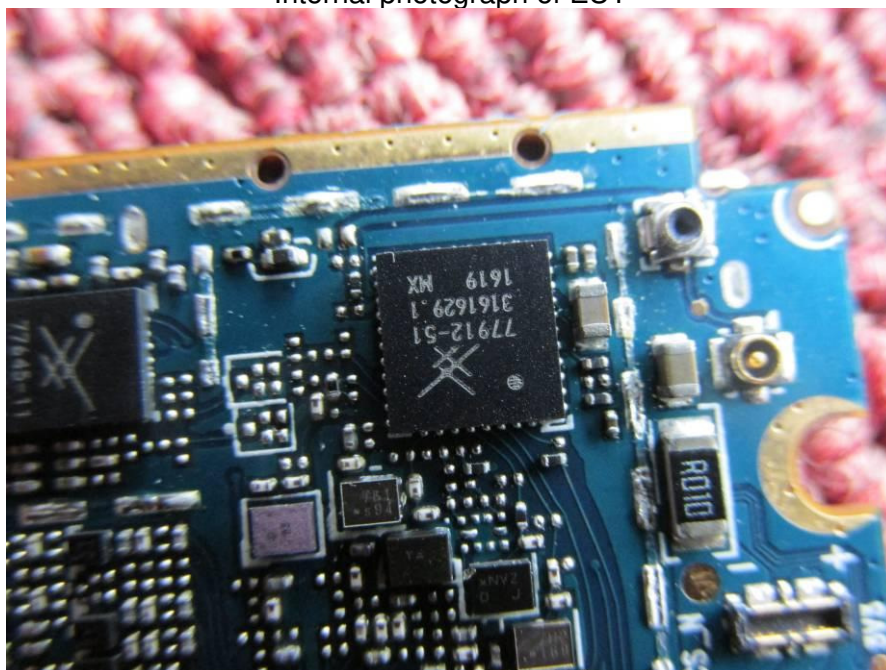
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Internal photograph of EUT



Internal photograph of EUT



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