



FCC Report


Application Purpose : Original grant
Applicant Name: : TECNO MOBILE LIMITED
FCC ID : 2ADYY-CX
Equipment Type : Mobile phone
Model Name : CX
Report Number : FCC17010035A-4
Standard(S) : FCC Part 15 Subpart B
Date Of Receipt : January 04, 2017
Date Of Issue : February 22, 2017

Test By : 

(Daisy Qin)

Reviewed By : 

(Sol Qin)

Authorized by : 

(Michal Ling)

Prepared by : **QTC Certification & Testing Co., Ltd.**
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District,,Shenzhen,518000
Registration Number: 588523

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	February 22, 2017	Valid	Original Report

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1. GENERAL INFORMATION

Test Model	CX
Applicant	TECNO MOBILE LIMITED
Address	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, 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	TECNO
Hardware	V1.6
Software	CX-H501C1-N-161222V32
Battery information:	Li-Polymer Battery : BL-32AT Voltage: 3.85V Capacity: 3200mAh/3250mAh(min/typ) Limited Charge Voltage: 4.4V
Adapter Information:	Adapter: A88-502000 Input: AC 100~240V 50/60Hz 350mA Output: DC 5V~2A
Data of receipt	January 04, 2017
Date of test	January 05, 2017 to February 22, 2017
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 Part 15 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.

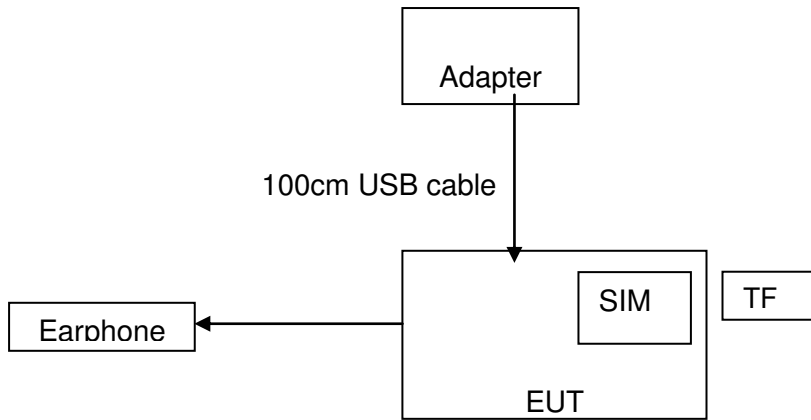
Pretest Mode	Description
Mode 1	Video Recording
Model 2	Video Playing
Mode 3	Exchange data with computer
Mode 4	GPS
Mode 5	FM

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

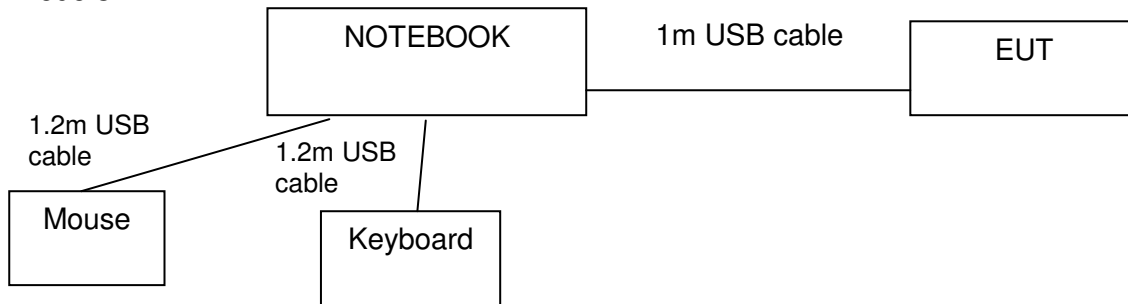
2.3 CONFIGURATION OF SYSTEM UNDER TEST

Mode 1&2&4&5:



(EUT: 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	/	A88-502000	/	/
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	SCHWARZBECK	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

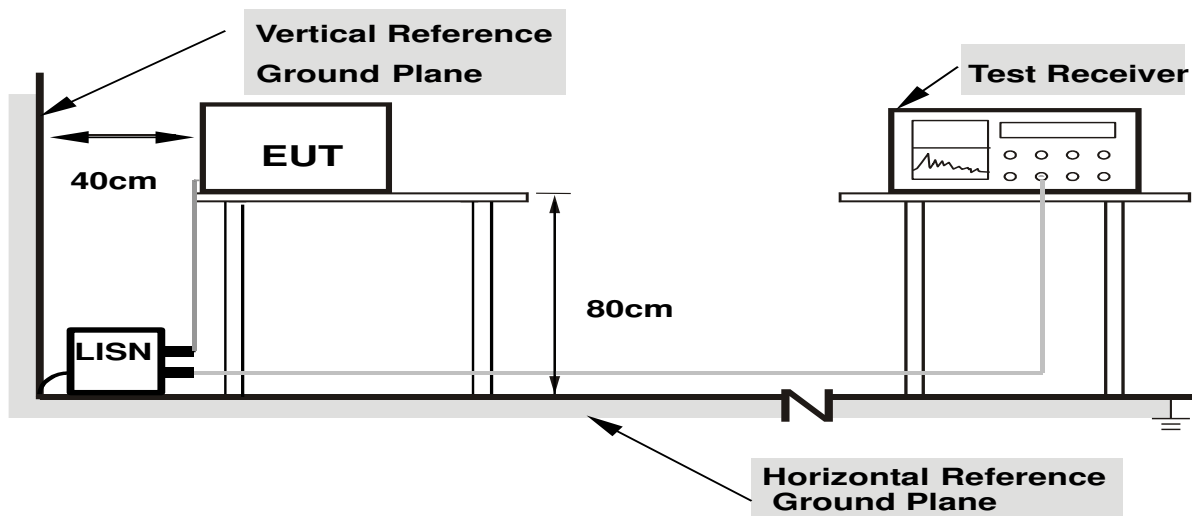
5.1.2 TEST PROCEDURE

- 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



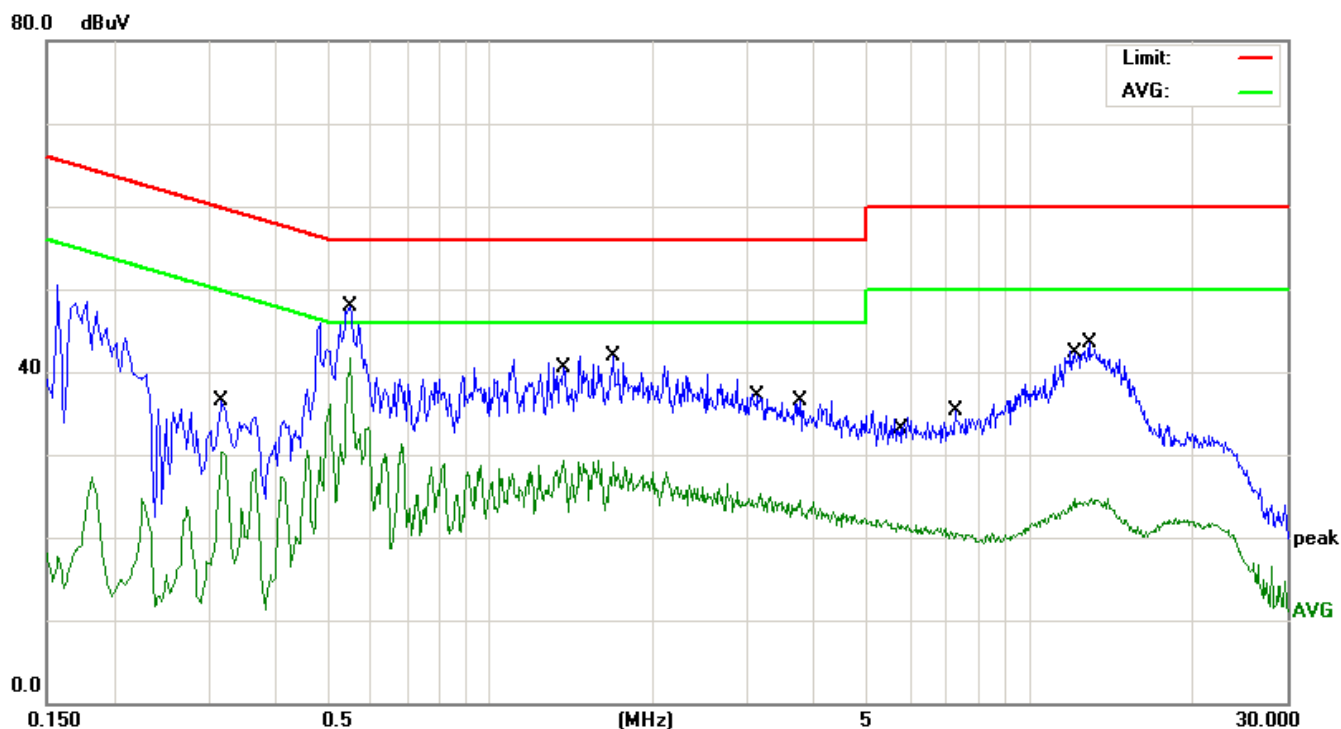
- Note: 1.Support units were connected to second LISN.**
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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.

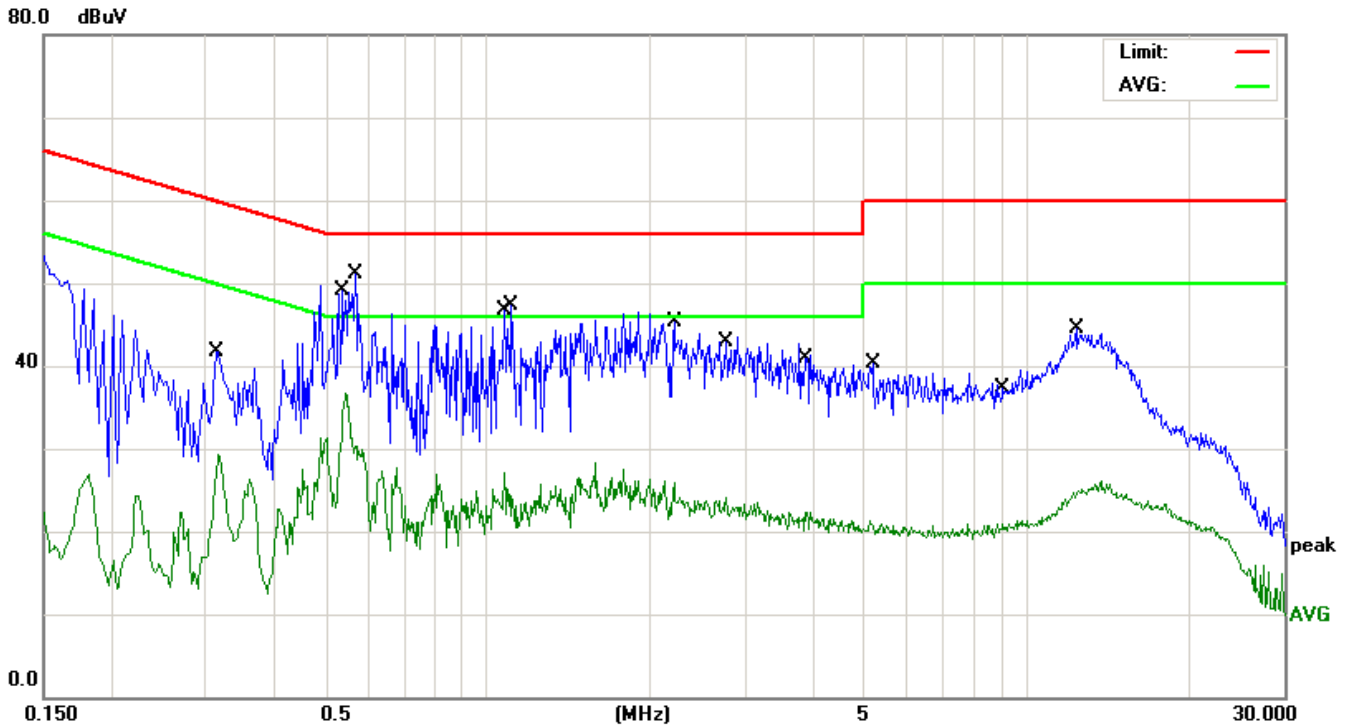
5.1.6 TEST RESULTS

EUT	Mobile phone	Model Name	CX
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	January 16, 2017	Test Mode	Mode 1



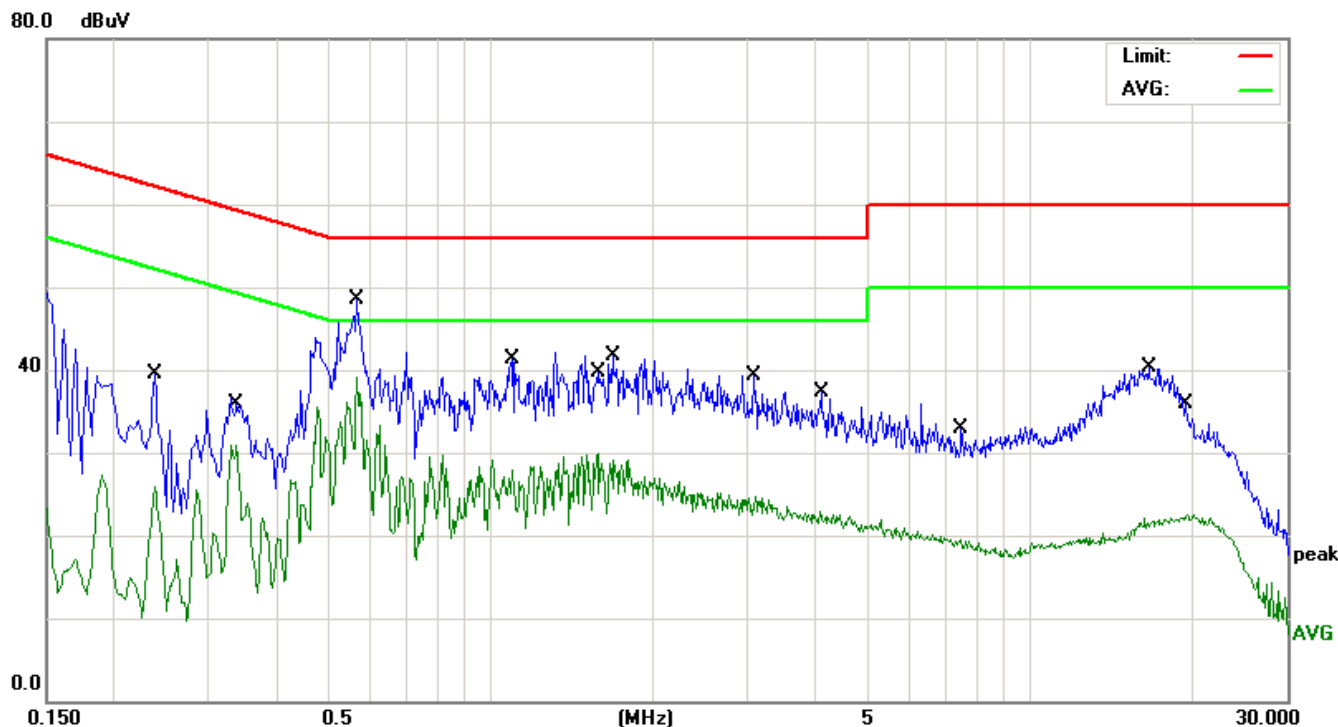
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3180	25.35	11.05	36.40	59.76	-23.36	QP
2		0.3180	19.32	11.05	30.37	49.76	-19.39	AVG
3		0.5500	37.06	10.78	47.84	56.00	-8.16	QP
4	*	0.5500	30.98	10.78	41.76	46.00	-4.24	AVG
5		1.3700	18.76	10.62	29.38	46.00	-16.62	AVG
6		1.6900	31.31	10.60	41.91	56.00	-14.09	QP
7		3.1619	14.64	10.57	25.21	46.00	-20.79	AVG
8		3.7420	25.91	10.55	36.46	56.00	-19.54	QP
9		5.6900	11.15	10.53	21.68	50.00	-28.32	AVG
10		7.2620	24.70	10.56	35.26	60.00	-24.74	QP
11		12.1380	14.19	10.58	24.77	50.00	-25.23	AVG
12		12.8620	32.98	10.60	43.58	60.00	-16.42	QP

EUT	Mobile phone	Model Name	CX
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	January 16, 2017	Test Mode	Mode 1



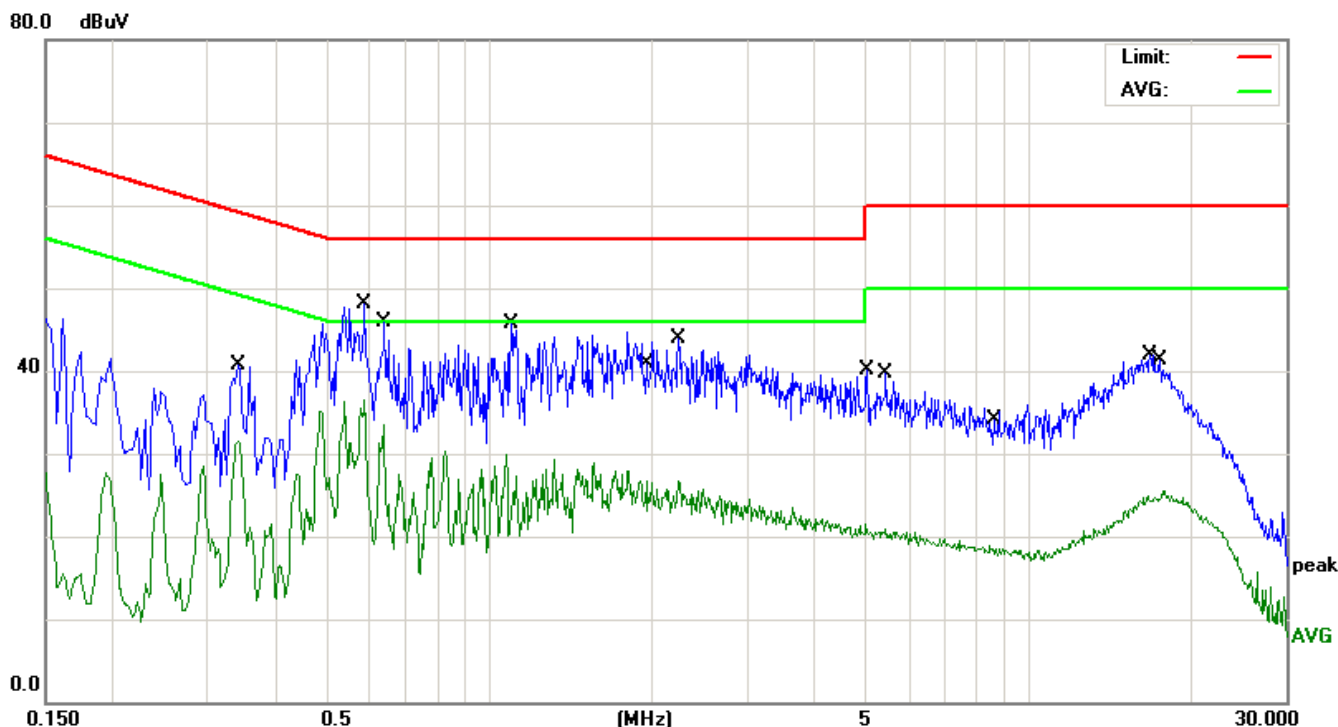
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3140	30.71	11.05	41.76	59.86	-18.10	QP
2		0.3180	18.32	11.05	29.37	49.76	-20.39	AVG
3		0.5460	25.87	10.78	36.65	46.00	-9.35	AVG
4	*	0.5700	40.37	10.79	51.16	56.00	-4.84	QP
5		1.0740	16.39	10.63	27.02	46.00	-18.98	AVG
6		1.1060	36.62	10.62	47.24	56.00	-8.76	QP
7		2.2220	34.68	10.59	45.27	56.00	-10.73	QP
8		2.7659	13.55	10.57	24.12	46.00	-21.88	AVG
9		3.8900	11.77	10.55	22.32	46.00	-23.68	AVG
10		5.1779	29.78	10.53	40.31	60.00	-19.69	QP
11		9.0500	10.36	10.58	20.94	50.00	-29.06	AVG
12		12.3220	33.88	10.58	44.46	60.00	-15.54	QP

EUT	Mobile phone	Model Name	CX
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	January 16, 2017	Test Mode	Mode 2



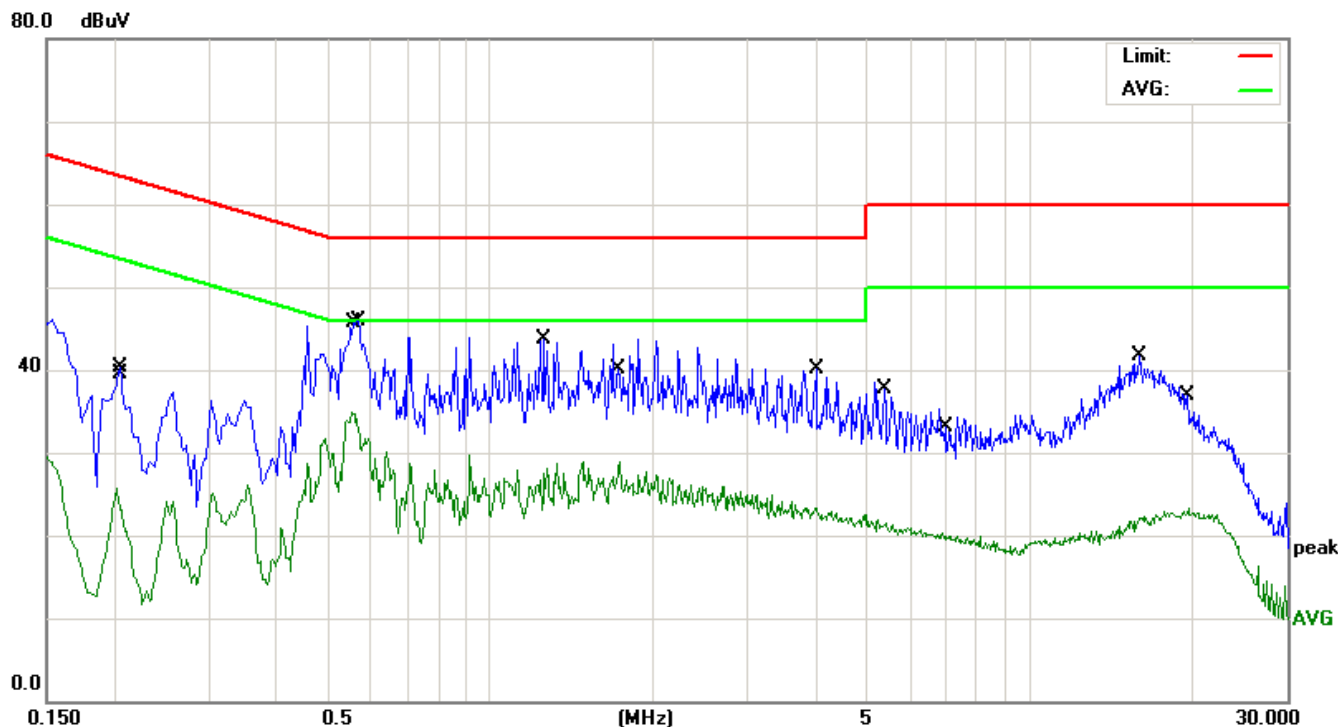
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2380	28.39	11.15	39.54	62.16	-22.62	QP
2		0.3379	19.92	11.02	30.94	49.25	-18.31	AVG
3		0.5660	37.76	10.79	48.55	56.00	-7.45	QP
4	*	0.5660	28.23	10.79	39.02	46.00	-6.98	AVG
5		1.0980	30.63	10.62	41.25	56.00	-14.75	QP
6		1.5780	19.33	10.60	29.93	46.00	-16.07	AVG
7		1.6860	31.01	10.60	41.61	56.00	-14.39	QP
8		3.0940	14.14	10.57	24.71	46.00	-21.29	AVG
9		4.1100	26.75	10.55	37.30	56.00	-18.70	QP
10		7.4740	8.90	10.56	19.46	50.00	-30.54	AVG
11		16.6580	29.62	10.61	40.23	60.00	-19.77	QP
12		19.5660	11.89	10.63	22.52	50.00	-27.48	AVG

EUT	Mobile phone	Model Name	CX
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	January 16, 2017	Test Mode	Mode 2



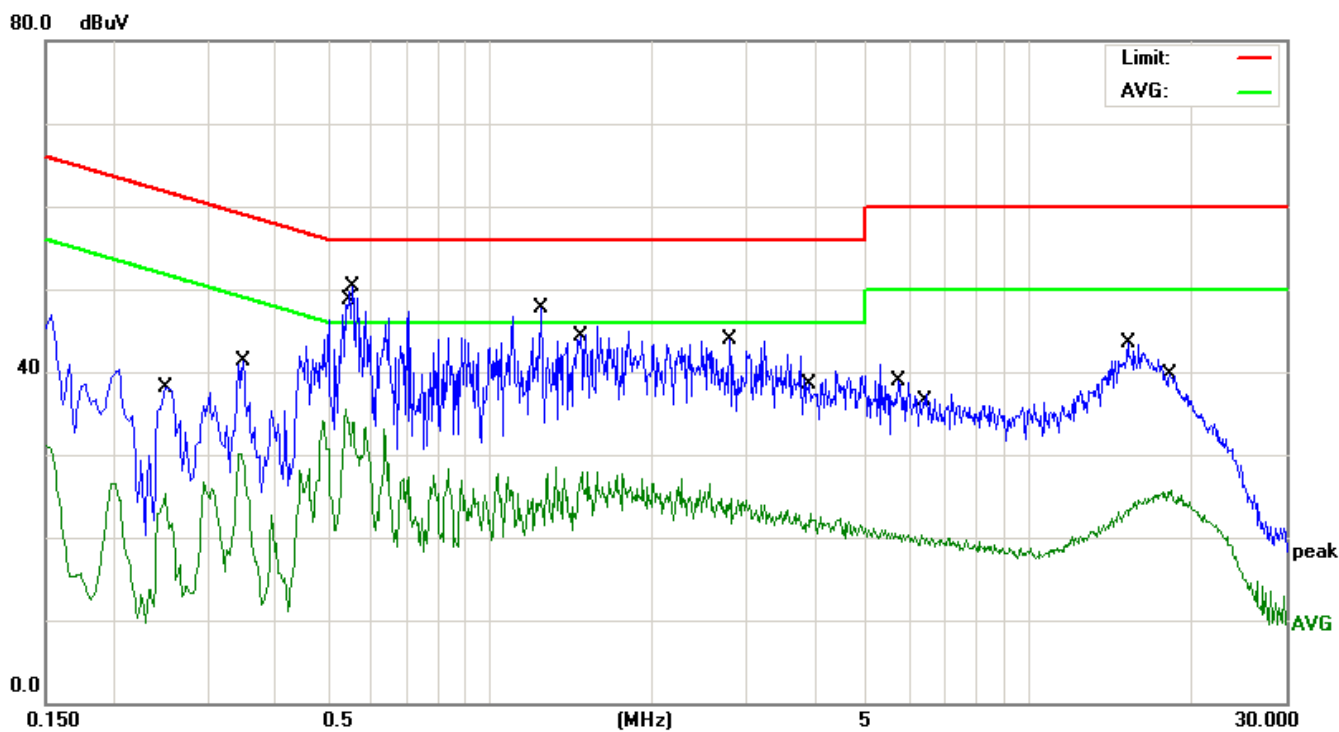
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3420	29.69	11.02	40.71	59.15	-18.44	QP
2		0.3420	20.46	11.02	31.48	49.15	-17.67	AVG
3	*	0.5860	37.28	10.79	48.07	56.00	-7.93	QP
4		0.6340	22.79	10.77	33.56	46.00	-12.44	AVG
5		1.0940	35.13	10.63	45.76	56.00	-10.24	QP
6		1.9500	16.20	10.59	26.79	46.00	-19.21	AVG
7		2.2420	33.26	10.58	43.84	56.00	-12.16	QP
8		5.0220	29.50	10.53	40.03	60.00	-19.97	QP
9		5.4220	10.39	10.54	20.93	50.00	-29.07	AVG
10		8.4980	8.37	10.57	18.94	50.00	-31.06	AVG
11		16.8220	31.30	10.61	41.91	60.00	-18.09	QP
12		17.6780	14.92	10.61	25.53	50.00	-24.47	AVG

EUT	Mobile phone	Model Name	CX
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	January 16, 2017	Test Mode	Mode 3



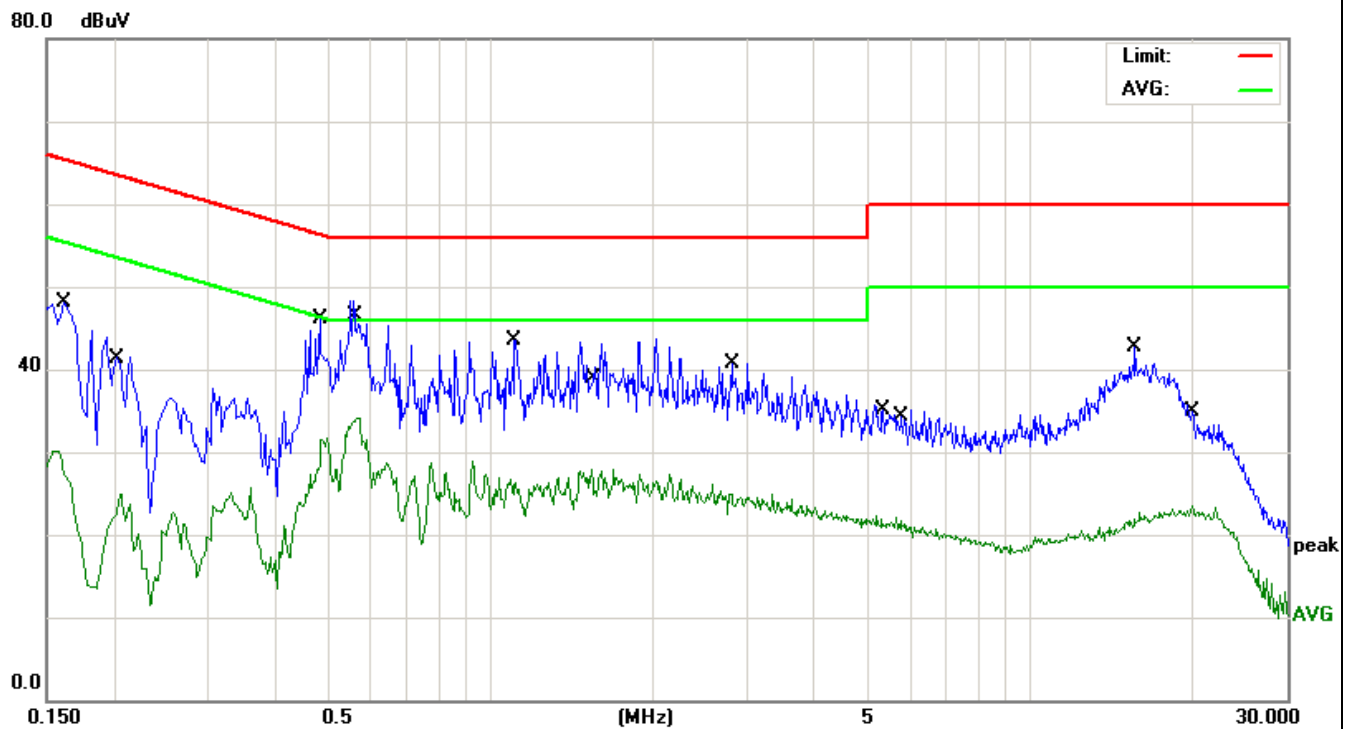
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2020	14.54	11.20	25.74	53.52	-27.78	AVG
2		0.2060	29.06	11.19	40.25	63.36	-23.11	QP
3		0.5540	24.06	10.79	34.85	46.00	-11.15	AVG
4	*	0.5700	35.17	10.79	45.96	56.00	-10.04	QP
5		1.2620	33.11	10.63	43.74	56.00	-12.26	QP
6		1.7380	18.35	10.59	28.94	46.00	-17.06	AVG
7		4.0220	29.49	10.55	40.04	56.00	-15.96	QP
8		4.0220	12.85	10.55	23.40	46.00	-22.60	AVG
9		5.3900	27.23	10.54	37.77	60.00	-22.23	QP
10		6.8980	9.64	10.56	20.20	50.00	-29.80	AVG
11		16.0300	31.10	10.59	41.69	60.00	-18.31	QP
12		19.7300	12.63	10.63	23.26	50.00	-26.74	AVG

EUT	Mobile phone	Model Name	CX
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	January 16, 2017	Test Mode	Mode 3



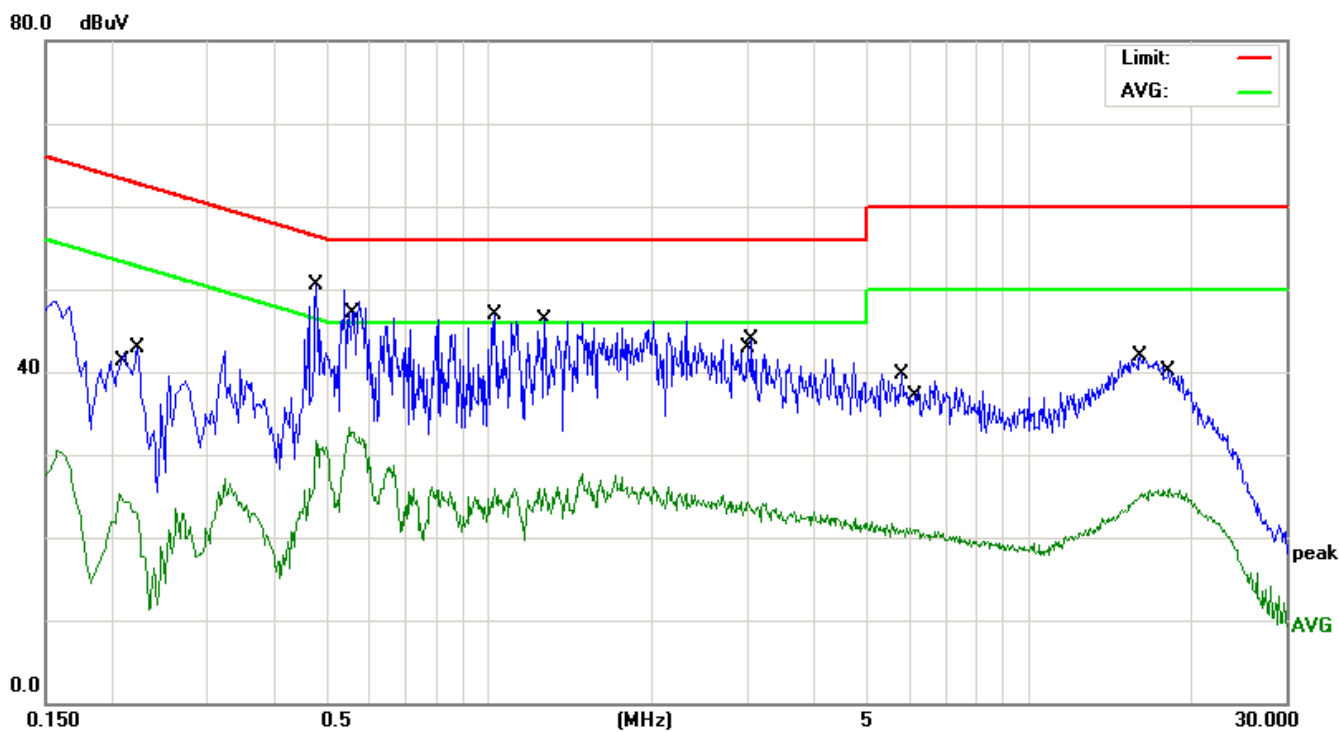
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2500	27.00	11.14	38.14	61.75	-23.61	QP
2		0.3460	19.19	11.01	30.20	49.06	-18.86	AVG
3		0.5420	24.64	10.78	35.42	46.00	-10.58	AVG
4	*	0.5580	39.58	10.79	50.37	56.00	-5.63	QP
5		1.2460	37.01	10.62	47.63	56.00	-8.37	QP
6		1.4819	17.35	10.62	27.97	46.00	-18.03	AVG
7		2.7860	33.26	10.57	43.83	56.00	-12.17	QP
8		3.9340	12.31	10.55	22.86	46.00	-23.14	AVG
9		5.7380	28.38	10.53	38.91	60.00	-21.09	QP
10		6.3260	9.64	10.56	20.20	50.00	-29.80	AVG
11		15.2300	32.97	10.59	43.56	60.00	-16.44	QP
12		18.3900	15.01	10.61	25.62	50.00	-24.38	AVG

EUT	Mobile phone	Model Name	CX
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	January 16, 2017	Test Mode	Mode 4



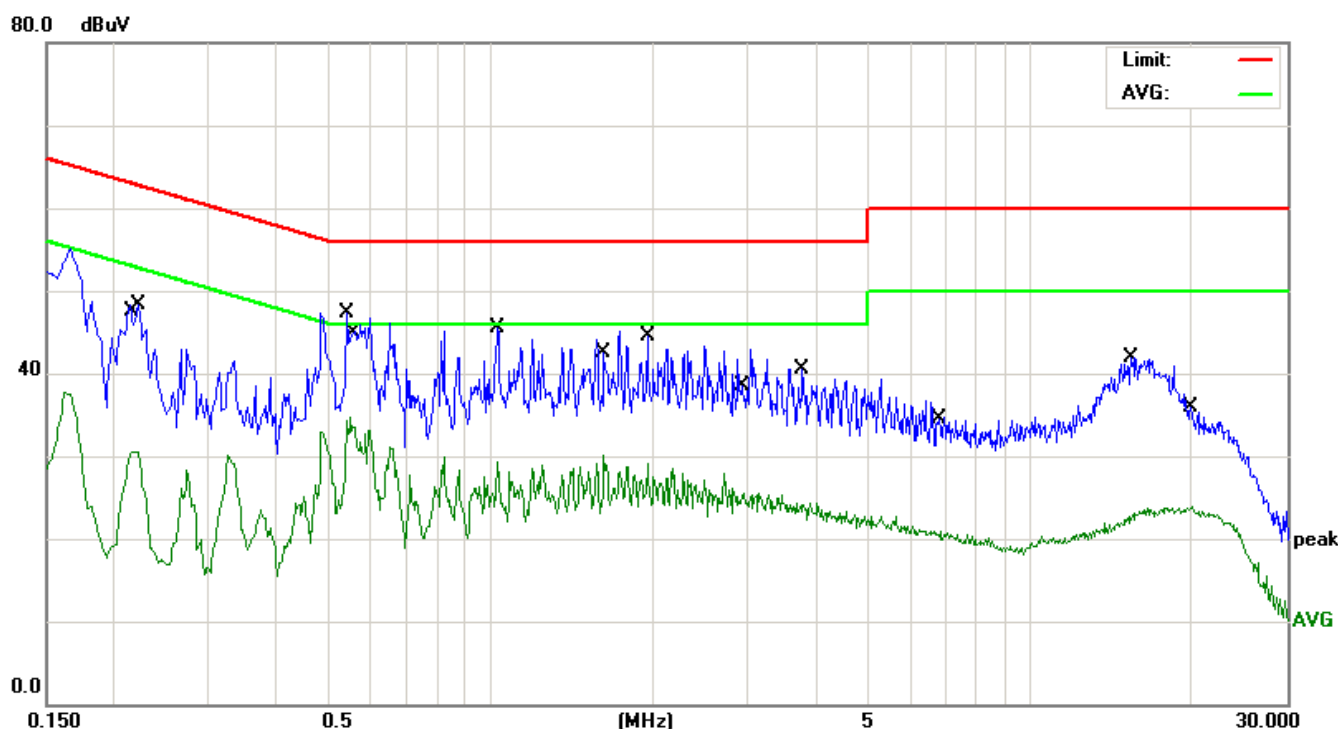
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1620	36.37	11.74	48.11	65.36	-17.25	QP
2		0.2060	13.73	11.19	24.92	53.36	-28.44	AVG
3	*	0.4820	35.20	10.82	46.02	56.30	-10.28	QP
4		0.5660	23.39	10.79	34.18	46.00	-11.82	AVG
5		1.1060	32.86	10.62	43.48	56.00	-12.52	QP
6		1.5380	17.32	10.60	27.92	46.00	-18.08	AVG
7		2.8020	30.13	10.57	40.70	56.00	-15.30	QP
8		2.8020	14.42	10.57	24.99	46.00	-21.01	AVG
9		5.3460	24.59	10.54	35.13	60.00	-24.87	QP
10		5.7740	11.12	10.54	21.66	50.00	-28.34	AVG
11		15.7060	32.05	10.60	42.65	60.00	-17.35	QP
12		20.0220	12.91	10.63	23.54	50.00	-26.46	AVG

EUT	Mobile phone	Model Name	CX
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	January 16, 2017	Test Mode	Mode 4



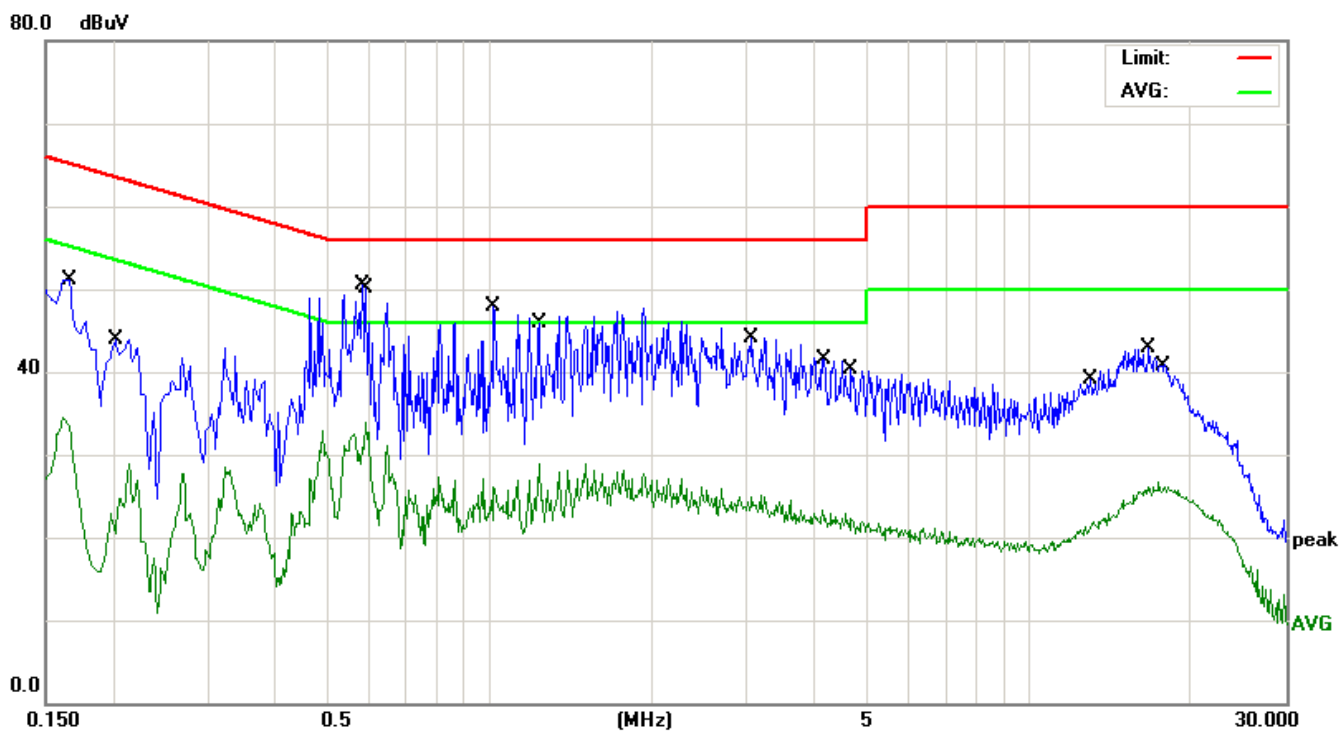
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2060	14.01	11.19	25.20	53.36	-28.16	AVG
2		0.2220	31.75	11.17	42.92	62.74	-19.82	QP
3	*	0.4780	39.63	10.83	50.46	56.37	-5.91	QP
4		0.5500	22.47	10.78	33.25	46.00	-12.75	AVG
5		1.0220	15.32	10.63	25.95	46.00	-20.05	AVG
6		1.2660	35.62	10.63	46.25	56.00	-9.75	QP
7		3.0180	13.68	10.57	24.25	46.00	-21.75	AVG
8		3.0620	33.29	10.57	43.86	56.00	-12.14	QP
9		5.8300	29.09	10.54	39.63	60.00	-20.37	QP
10		6.0260	10.61	10.55	21.16	50.00	-28.84	AVG
11		16.0700	31.23	10.59	41.82	60.00	-18.18	QP
12		18.2660	15.32	10.61	25.93	50.00	-24.07	AVG

EUT	Mobile phone	Model Name	CX
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	January 16, 2017	Test Mode	Mode 5



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2180	19.39	11.18	30.57	52.89	-22.32	AVG
2		0.2220	37.22	11.17	48.39	62.74	-14.35	QP
3	*	0.5420	36.57	10.78	47.35	56.00	-8.65	QP
4		0.5500	23.85	10.78	34.63	46.00	-11.37	AVG
5		1.0300	34.95	10.63	45.58	56.00	-10.42	QP
6		1.6260	19.47	10.60	30.07	46.00	-15.93	AVG
7		1.9500	33.94	10.59	44.53	56.00	-11.47	QP
8		2.9500	14.88	10.57	25.45	46.00	-20.55	AVG
9		3.7940	30.01	10.55	40.56	56.00	-15.44	QP
10		6.8260	10.32	10.57	20.89	50.00	-29.11	AVG
11		15.4580	31.26	10.59	41.85	60.00	-18.15	QP
12		20.0140	13.26	10.63	23.89	50.00	-26.11	AVG

EUT	Mobile phone	Model Name	CX
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	January 16, 2017	Test Mode	Mode 5



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1650	21.97	11.69	33.66	55.20	-21.54	AVG
2		0.2020	32.73	11.20	43.93	63.52	-19.59	QP
3	*	0.5820	39.77	10.79	50.56	56.00	-5.44	QP
4		0.5899	23.10	10.79	33.89	46.00	-12.11	AVG
5		1.0180	37.32	10.63	47.95	56.00	-8.05	QP
6		1.2420	18.19	10.62	28.81	46.00	-17.19	AVG
7		3.0700	33.60	10.57	44.17	56.00	-11.83	QP
8		4.1420	12.77	10.55	23.32	46.00	-22.68	AVG
9		4.6860	29.84	10.54	40.38	56.00	-15.62	QP
10		13.0860	10.83	10.60	21.43	50.00	-28.57	AVG
11		16.6620	32.31	10.61	42.92	60.00	-17.08	QP
12		17.4580	15.99	10.61	26.60	50.00	-23.40	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:

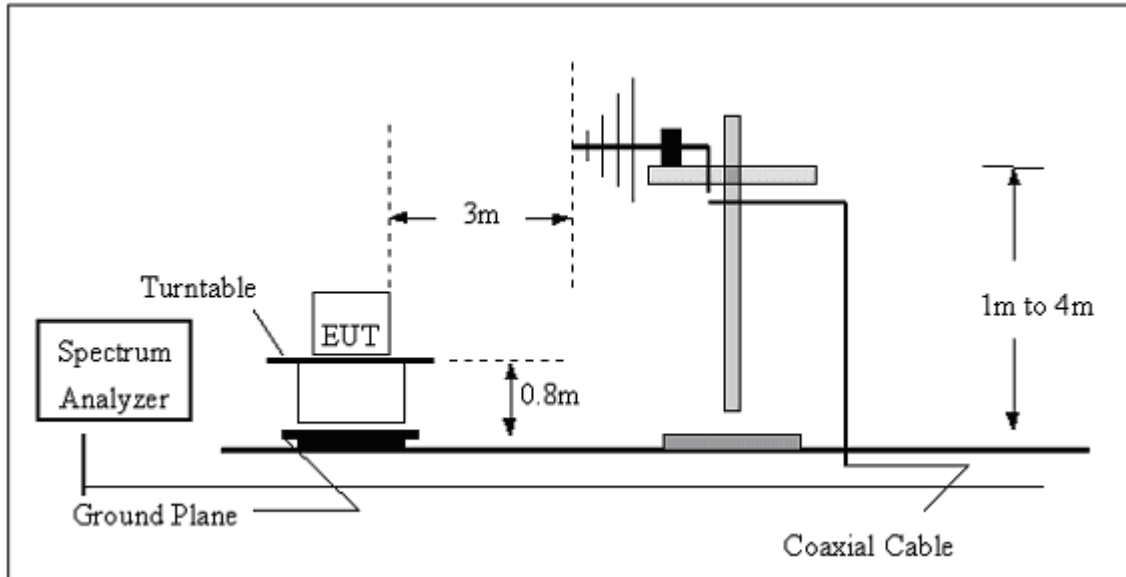
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.2.3 DEVIATION FROM TEST STANDARD

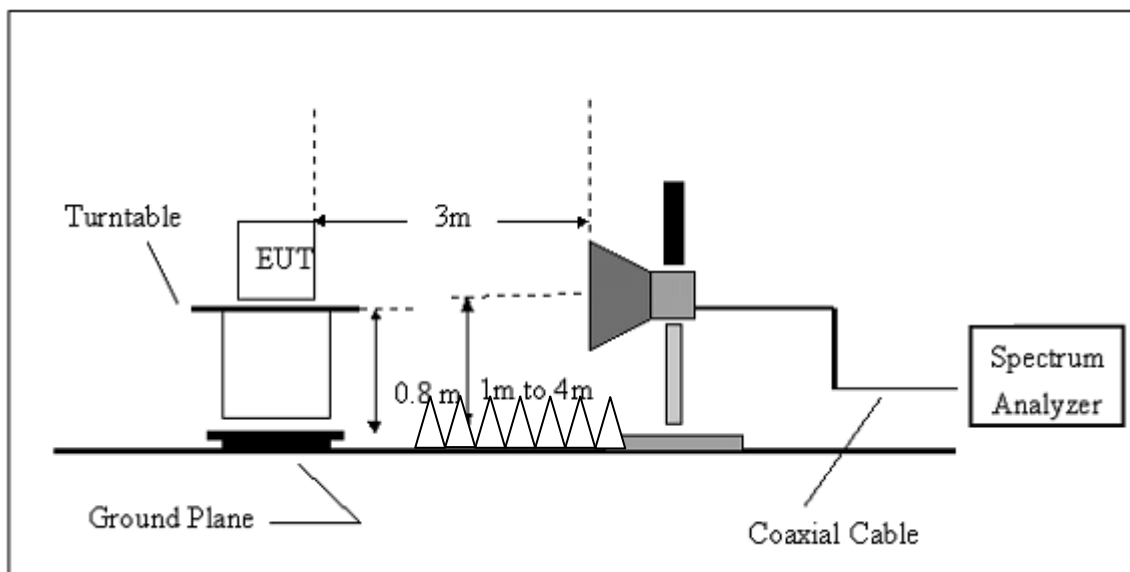
No deviation

5.2.4 TEST SETUP

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



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

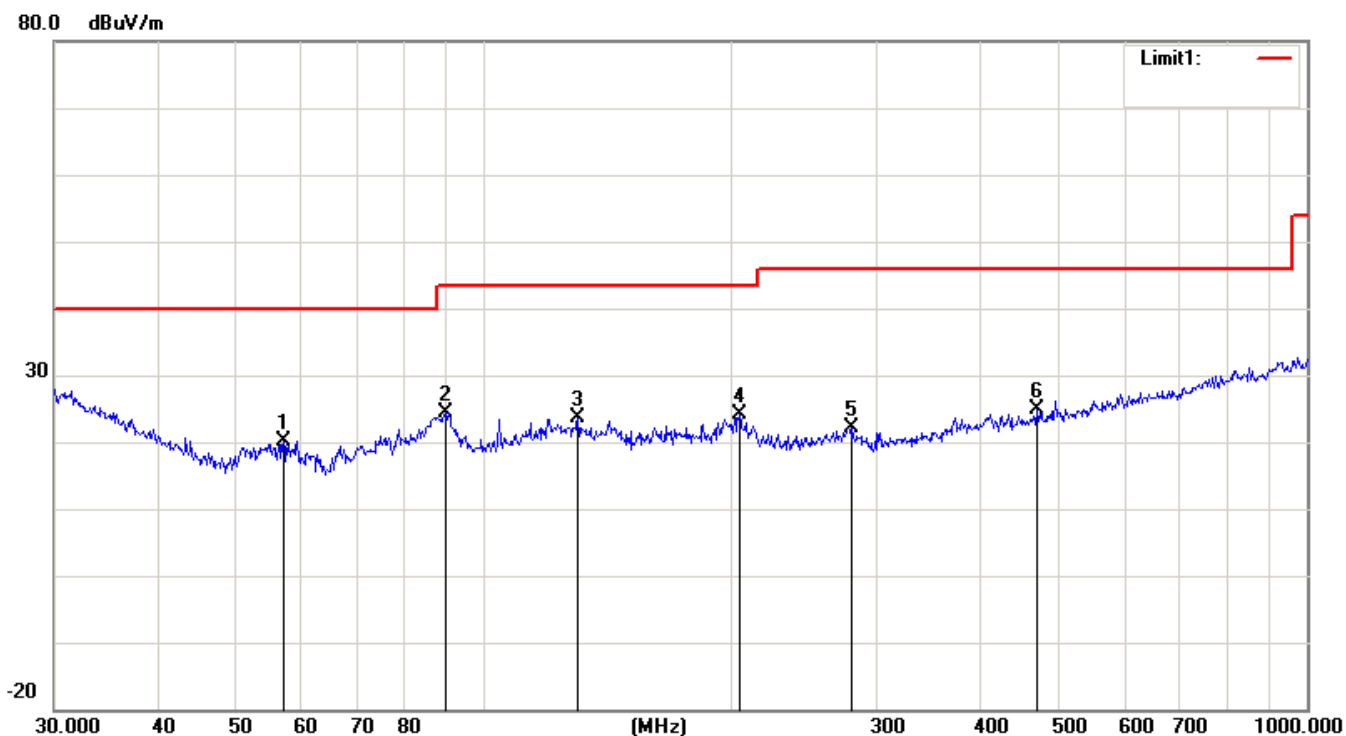


5.2.5 EUT OPERATING CONDITIONS

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.

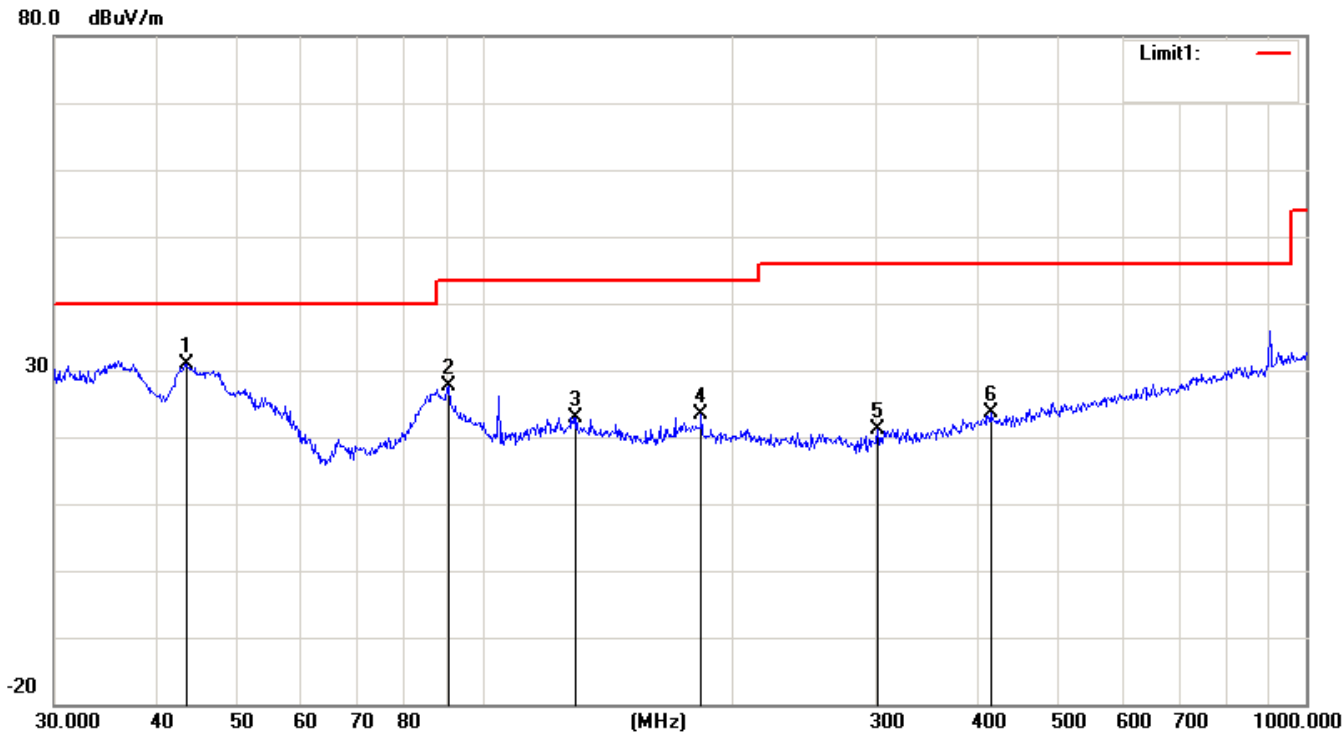
5.2.5.1 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

EUT	Mobile phone	Model Name	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 1	Test Date	January 16, 2017



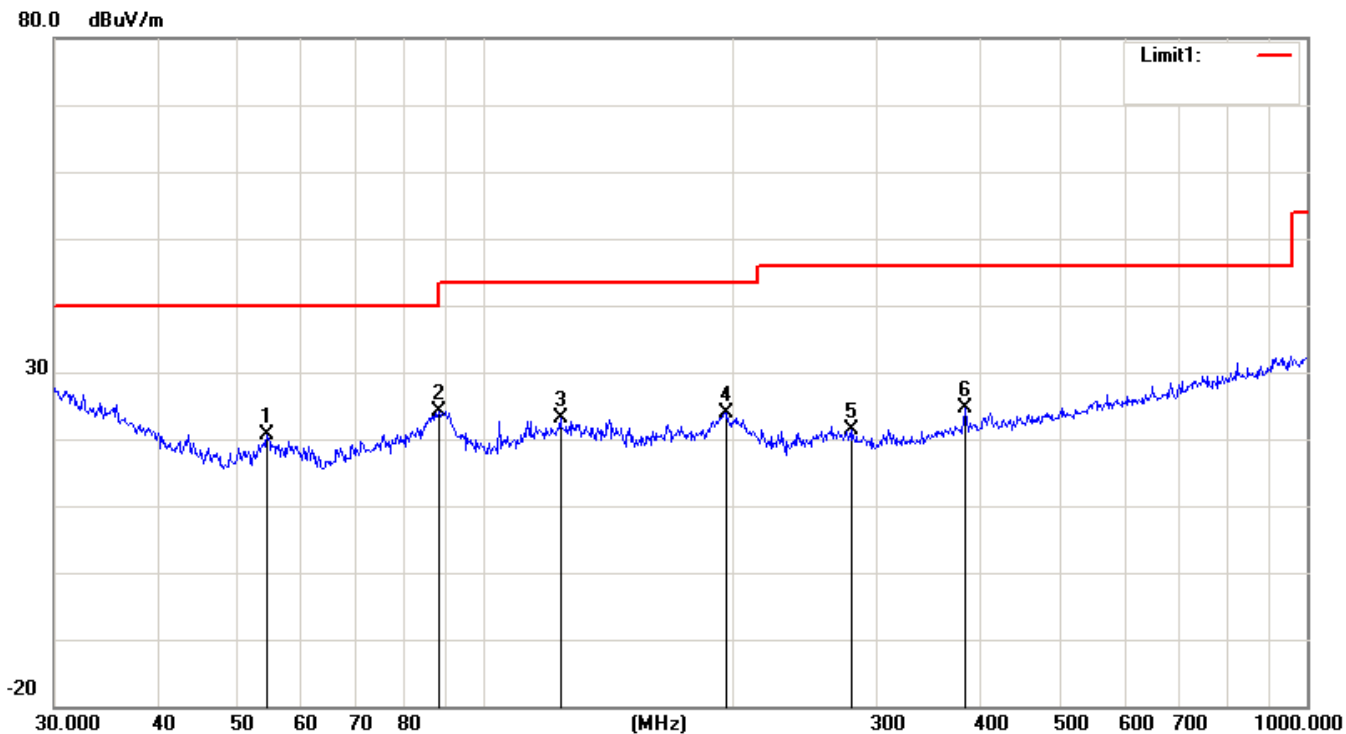
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		56.9912	29.61	-9.46	20.15	40.00	-19.85	QP
2	*	89.9047	32.37	-7.98	24.39	43.50	-19.11	QP
3		129.9226	25.76	-2.19	23.57	43.50	-19.93	QP
4		204.2377	29.21	-4.97	24.24	43.50	-19.26	QP
5		280.0237	28.28	-6.08	22.20	46.00	-23.80	QP
6		470.5232	26.24	-1.35	24.89	46.00	-21.11	QP

EUT	Mobile phone	Model Name	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 1	Test Date	January 16, 2017



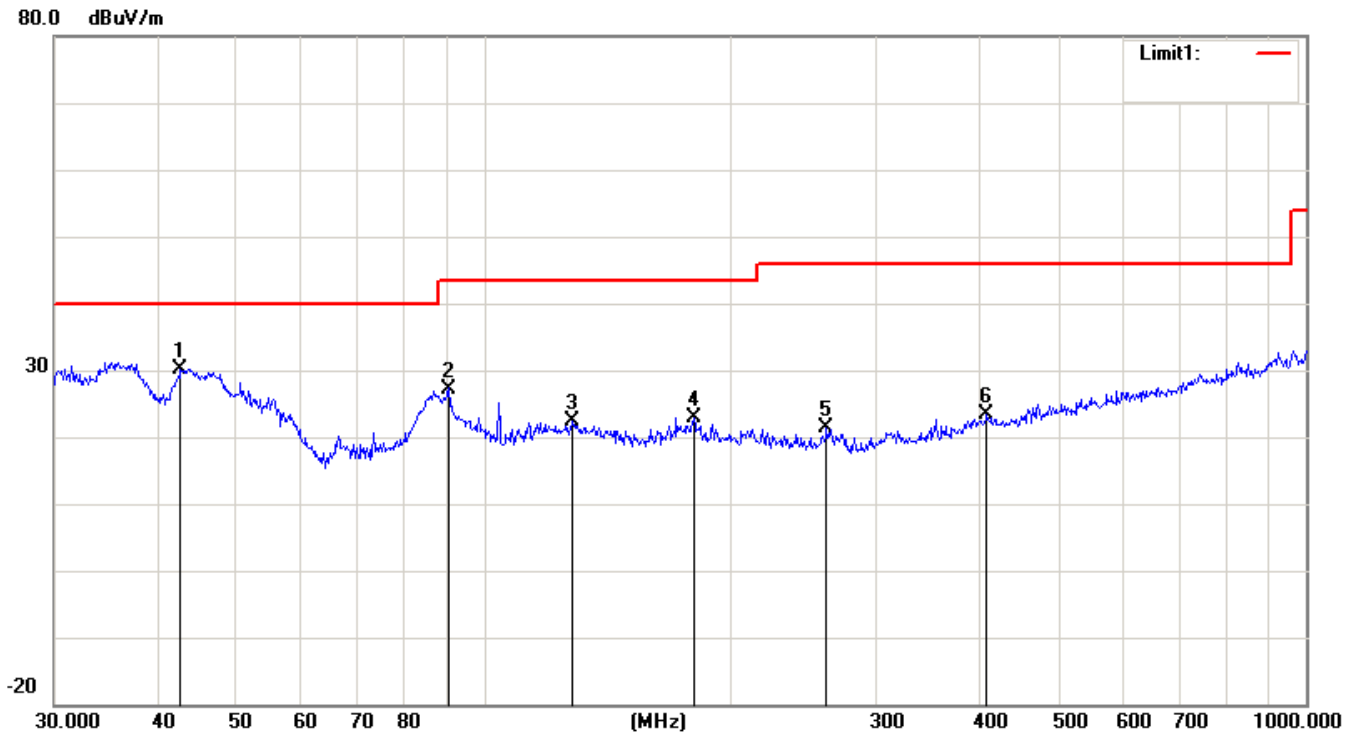
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	43.5057	36.58	-5.75	30.83	40.00	-9.17	QP
2		90.5374	35.64	-7.92	27.72	43.50	-15.78	QP
3		129.4677	25.10	-2.18	22.92	43.50	-20.58	QP
4		183.8440	28.68	-5.25	23.43	43.50	-20.07	QP
5		301.4224	26.58	-5.54	21.04	46.00	-24.96	QP
6		413.2706	25.71	-2.08	23.63	46.00	-22.37	QP

EUT	Mobile phone	Model Name	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 2	Test Date	January 16, 2017



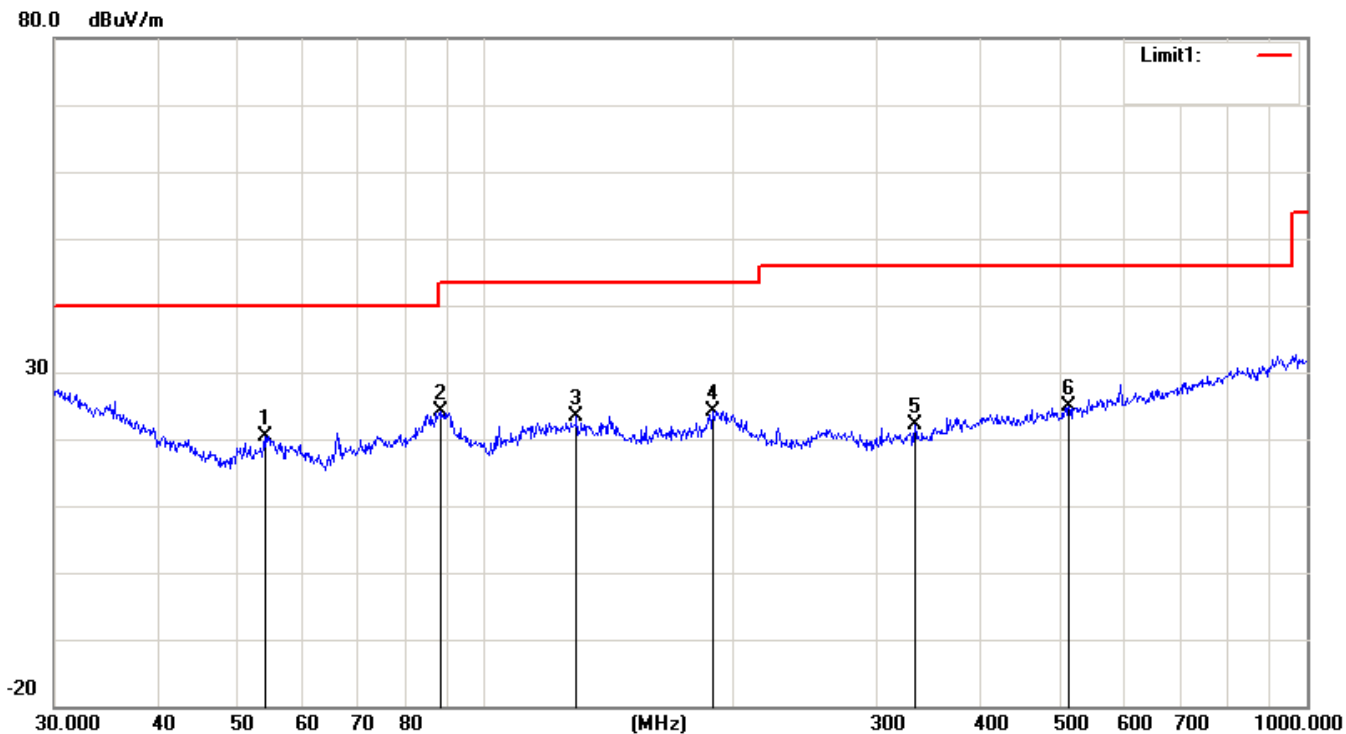
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		54.4516	30.07	-9.44	20.63	40.00	-19.37	QP
2	*	88.0329	32.22	-7.97	24.25	43.50	-19.25	QP
3		123.6985	25.27	-2.18	23.09	43.50	-20.41	QP
4		196.5098	29.12	-5.16	23.96	43.50	-19.54	QP
5		279.0436	27.57	-6.10	21.47	46.00	-24.53	QP
6		383.9318	27.79	-3.14	24.65	46.00	-21.35	QP

EUT	Mobile phone	Model Name	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 2	Test Date	January 16, 2017



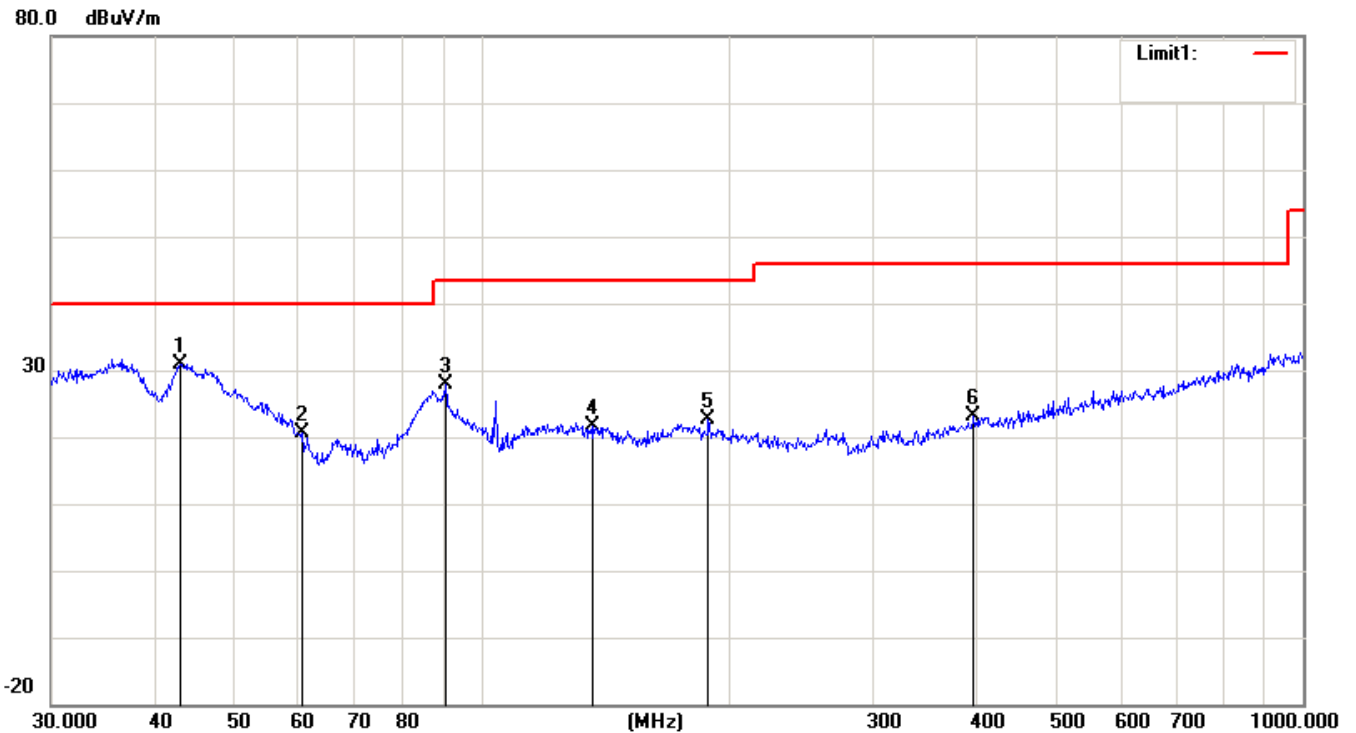
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	42.7496	35.42	-5.27	30.15	40.00	-9.85	QP
2		90.5374	35.17	-7.92	27.25	43.50	-16.25	QP
3		128.1130	24.56	-2.17	22.39	43.50	-21.11	QP
4		180.0165	28.17	-5.17	23.00	43.50	-20.50	QP
5		261.0583	27.81	-6.41	21.40	46.00	-24.60	QP
6		408.9460	25.29	-1.98	23.31	46.00	-22.69	QP

EUT	Mobile phone	Model Name	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 3	Test Date	January 16, 2017



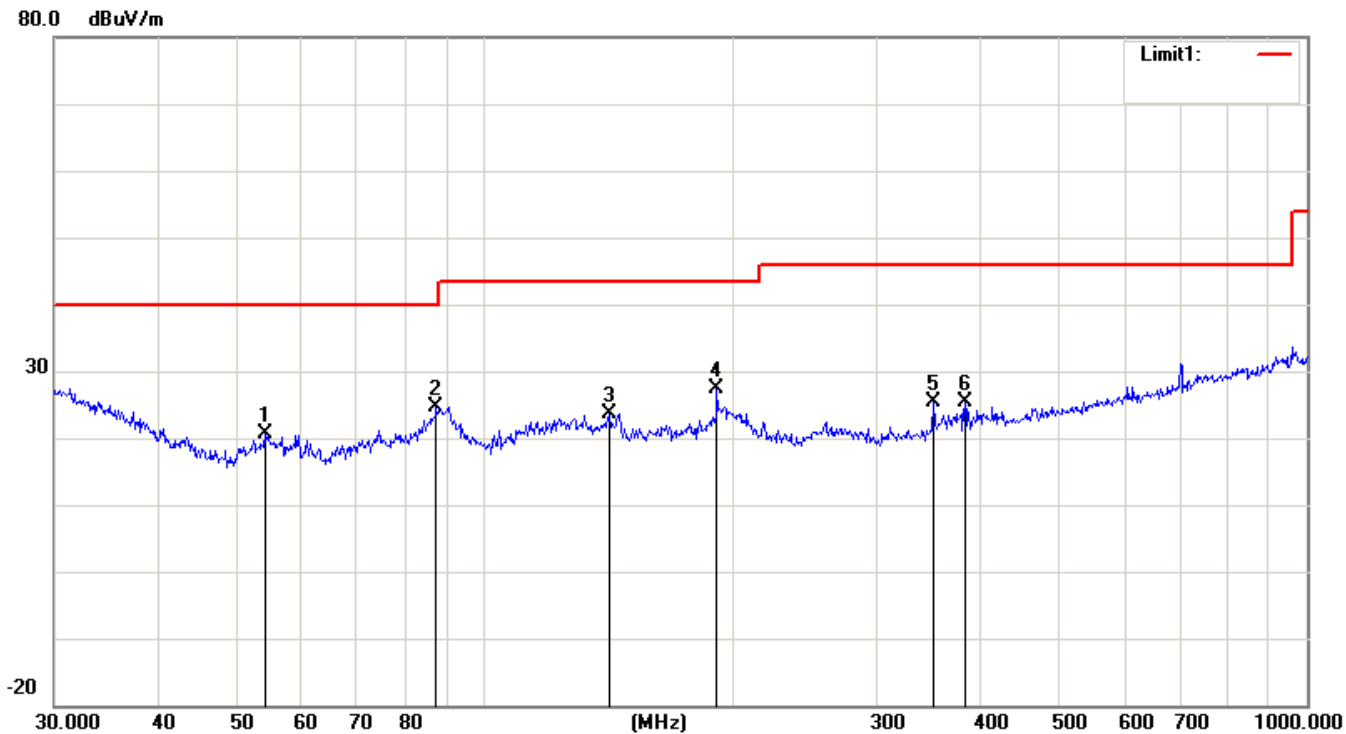
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		54.0711	29.85	-9.41	20.44	40.00	-19.56	QP
2		88.3421	32.00	-7.97	24.03	43.50	-19.47	QP
3		129.4677	25.45	-2.18	23.27	43.50	-20.23	QP
4	*	189.7385	29.45	-5.28	24.17	43.50	-19.33	QP
5		333.6867	26.85	-4.69	22.16	46.00	-23.84	QP
6		513.6331	25.57	-0.69	24.88	46.00	-21.12	QP

EUT	Mobile phone	Model Name	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 3	Test Date	January 16, 2017



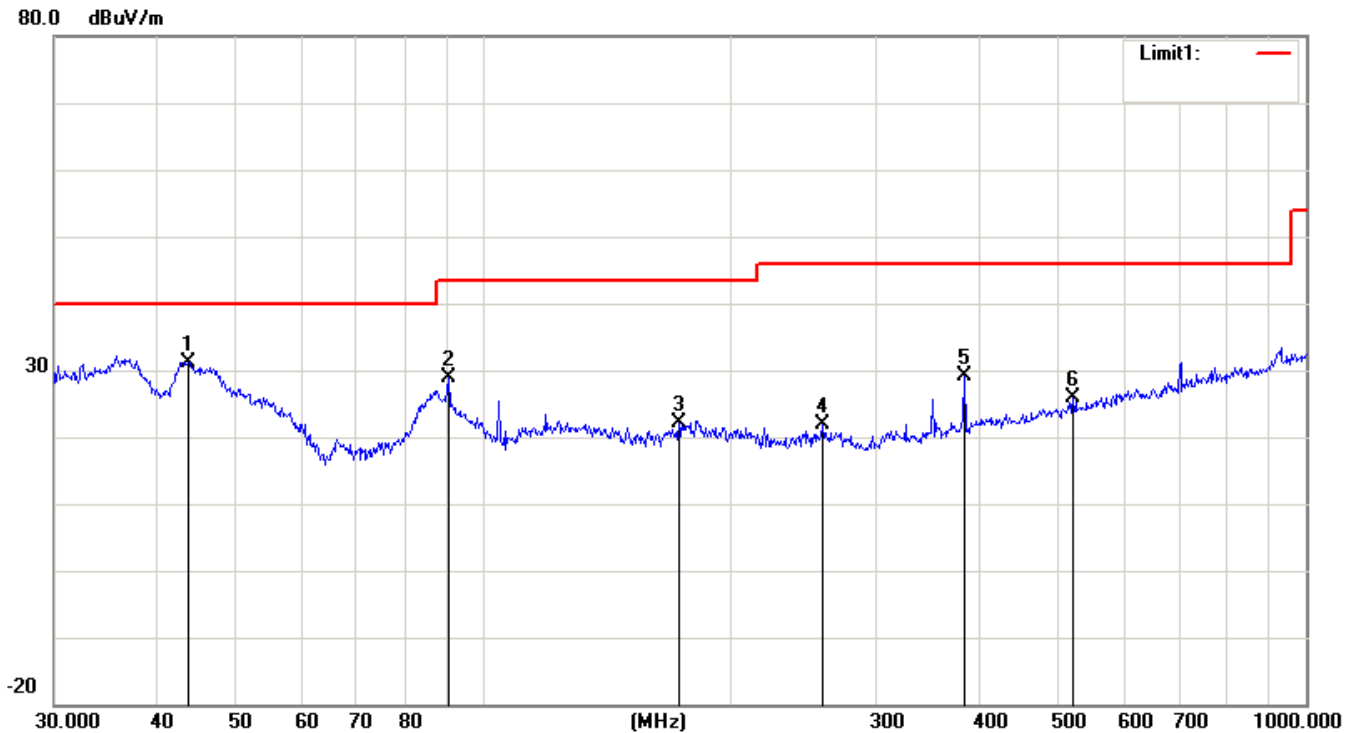
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	43.0505	36.43	-5.46	30.97	40.00	-9.03	QP
2		60.7044	29.91	-9.30	20.61	40.00	-19.39	QP
3		90.5374	35.88	-7.92	27.96	43.50	-15.54	QP
4		136.4598	24.78	-3.05	21.73	43.50	-21.77	QP
5		189.0743	28.02	-5.28	22.74	43.50	-20.76	QP
6		397.6334	25.57	-2.50	23.07	46.00	-22.93	QP

EUT	Mobile phone	Model Name	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 4	Test Date	January 16, 2017



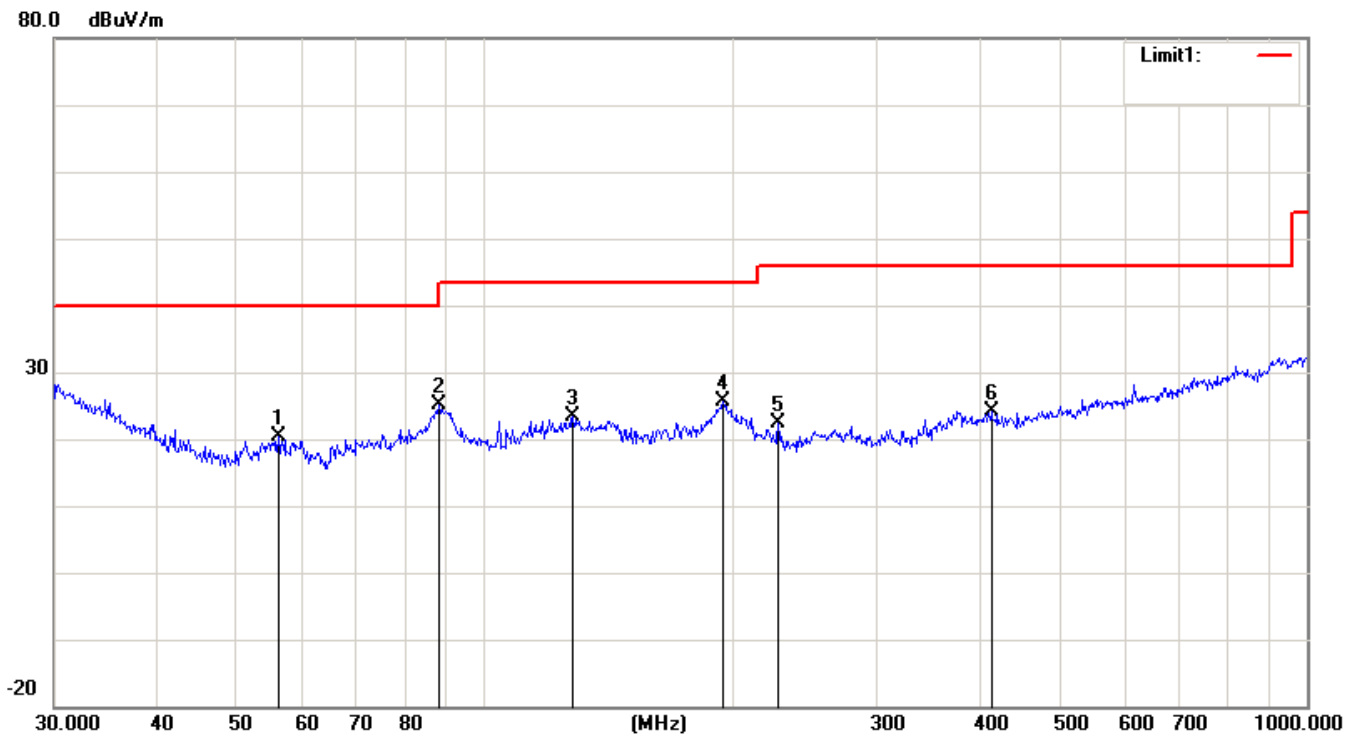
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		54.0711	30.08	-9.41	20.67	40.00	-19.33	QP
2	*	87.4177	32.71	-7.97	24.74	40.00	-15.26	QP
3		141.8262	26.94	-3.19	23.75	43.50	-19.75	QP
4		191.7450	32.77	-5.29	27.48	43.50	-16.02	QP
5		351.7079	29.61	-4.18	25.43	46.00	-20.57	QP
6		383.9318	28.63	-3.14	25.49	46.00	-20.51	QP

EUT	Mobile phone	Model Name	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 4	Test Date	January 16, 2017



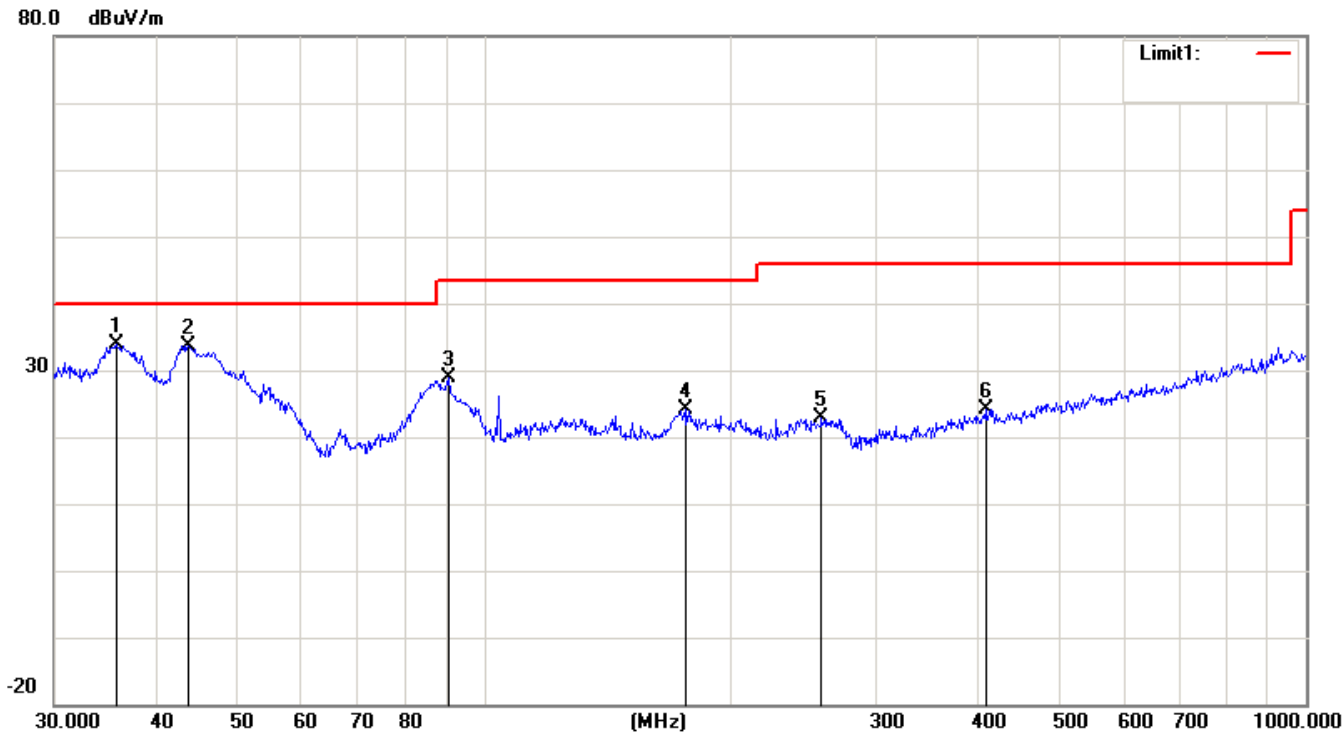
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	43.6584	37.04	-5.85	31.19	40.00	-8.81	QP
2		90.5374	36.88	-7.92	28.96	43.50	-14.54	QP
3		172.5988	26.88	-4.81	22.07	43.50	-21.43	QP
4		258.3264	28.42	-6.46	21.96	46.00	-24.04	QP
5		383.9318	32.24	-3.14	29.10	46.00	-16.90	QP
6		520.8882	26.63	-0.63	26.00	46.00	-20.00	QP

EUT	Mobile phone	Model Name	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 5	Test Date	January 16, 2017



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		56.1974	29.95	-9.48	20.47	40.00	-19.53	QP
2		88.0329	33.14	-7.97	25.17	43.50	-18.33	QP
3		128.1130	25.54	-2.17	23.37	43.50	-20.13	QP
4	*	195.1365	30.98	-5.29	25.69	43.50	-17.81	QP
5		227.6906	28.11	-5.80	22.31	46.00	-23.69	QP
6		413.2706	26.27	-2.08	24.19	46.00	-21.81	QP

EUT	Mobile phone	Model Name	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 5	Test Date	January 16, 2017



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	35.7490	34.22	-0.41	33.81	40.00	-6.19	QP
2		43.6584	39.50	-5.85	33.65	40.00	-6.35	QP
3		90.5374	36.83	-7.92	28.91	43.50	-14.59	QP
4		175.6516	29.11	-4.97	24.14	43.50	-19.36	QP
5		257.4222	29.38	-6.48	22.90	46.00	-23.10	QP
6		407.5145	26.17	-2.05	24.12	46.00	-21.88	QP

5.2.5.2 TEST RESULTS (1GHZ TO 6GHZ)

EUT	Mobile phone	Model Name	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1
Test Date	January 16, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1632.45	V	60.87	40.47	74	54	-13.13	-13.53
2829.27	V	58.70	39.42	74	54	-15.30	-14.58
1684.52	H	58.11	39.51	74	54	-15.89	-14.49
2831.6	H	59.71	40.71	74	54	-14.29	-13.29

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	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 2
Test Date	January 16, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1583.35	V	59.54	41.24	74	54	-14.46	-12.76
2641.52	V	59.43	40.30	74	54	-14.57	-13.70
1628.42	H	59.63	39.13	74	54	-14.37	-14.87
2810.39	H	59.11	40.11	74	54	-14.89	-13.89

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	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 3
Test Date	January 16, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1577.35	V	60.22	41.46	74	54	-13.78	-12.54
2652.38	V	59.97	39.04	74	54	-14.03	-14.96
1699.33	H	58.91	40.37	74	54	-15.09	-13.63
2739.42	H	58.41	39.41	74	54	-15.59	-14.59

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	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 4
Test Date	January 16, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1583.35	V	60.74	40.92	74	54	-13.26	-13.08
2641.52	V	58.02	40.95	74	54	-15.98	-13.05
1628.42	H	59.36	39.46	74	54	-14.64	-14.54
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	CX
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 5
Test Date	January 16, 2017		

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
1577.35	V	60.71	40.21	74	54	-13.29	-13.79
2652.38	V	58.83	40.46	74	54	-15.17	-13.54
1699.33	H	58.06	40.58	74	54	-15.94	-13.42
2739.42	H	59.83	40.83	74	54	-14.17	-13.17

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

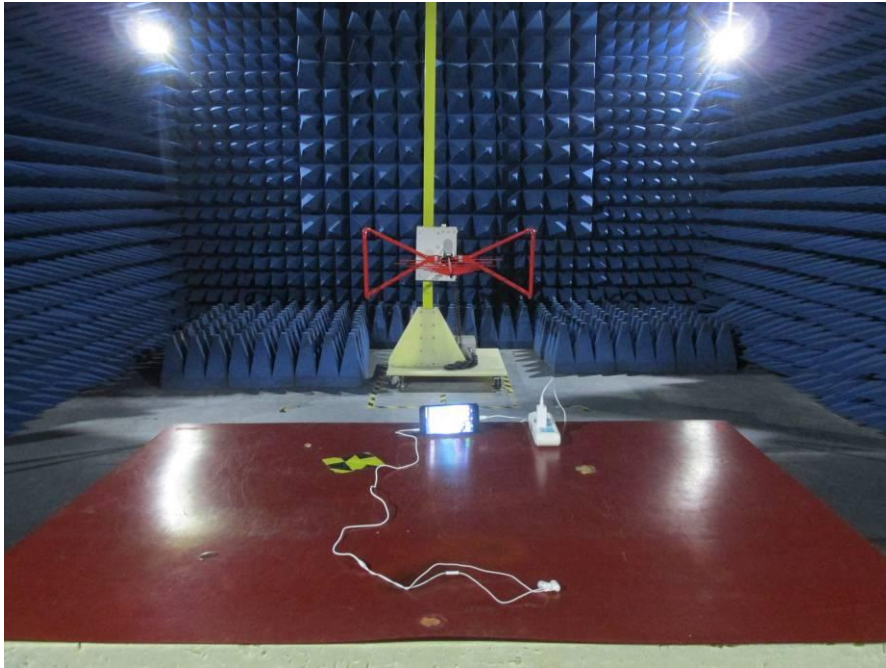
CONDUCTED EMISSION TEST



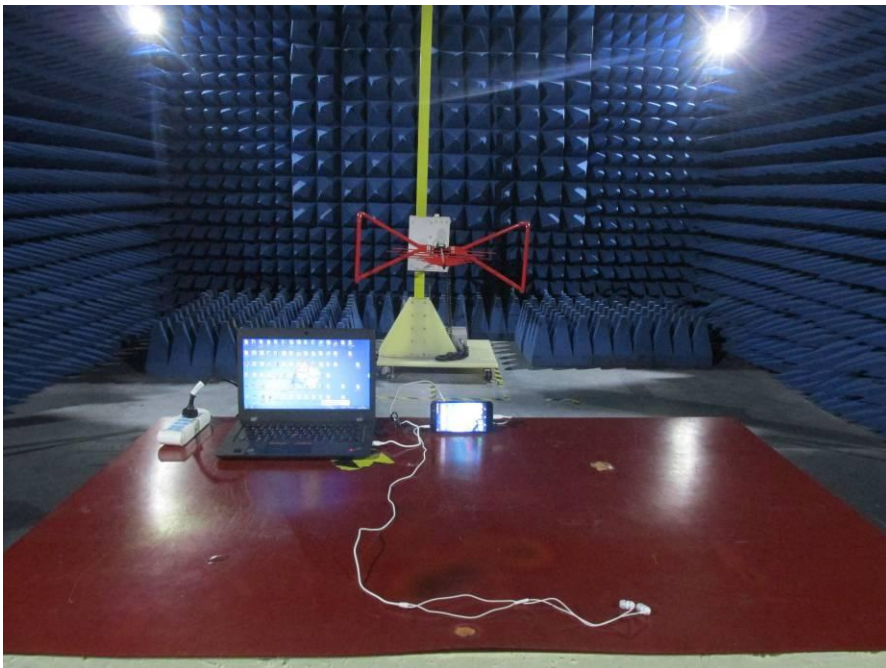
CONDUCTED EMISSION TEST



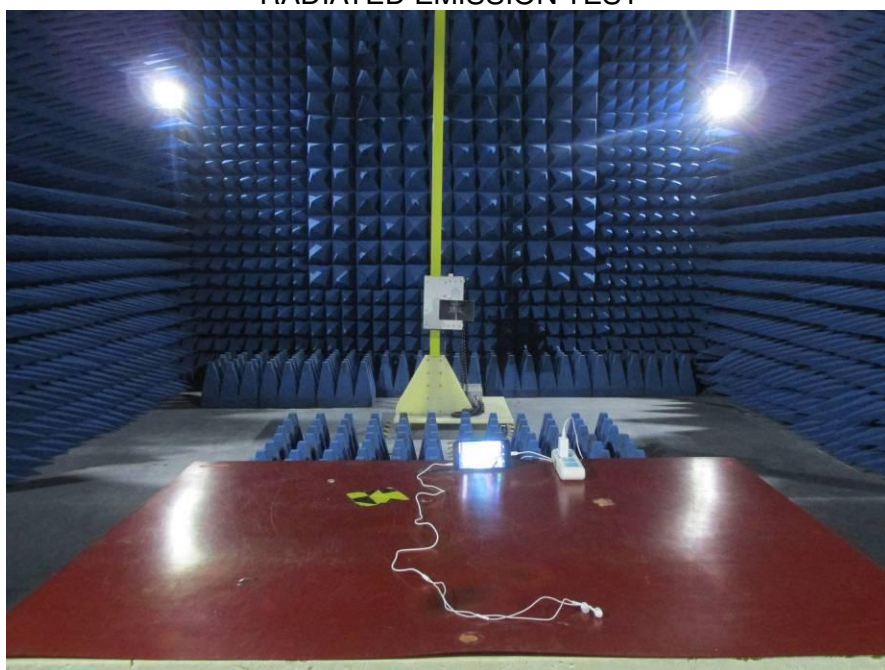
RADIATED EMISSION TEST



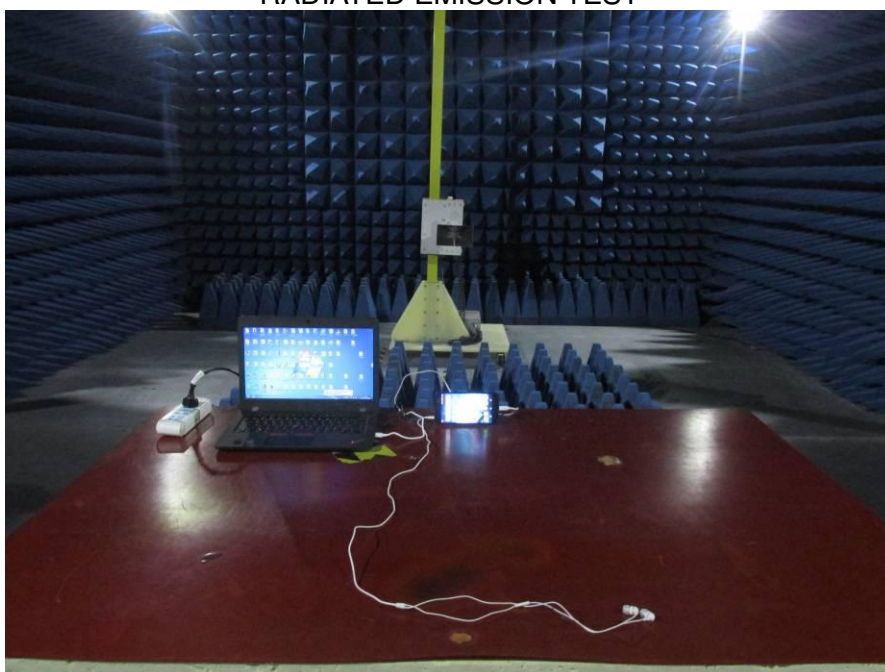
RADIATED EMISSION TEST



RADIATED EMISSION TEST



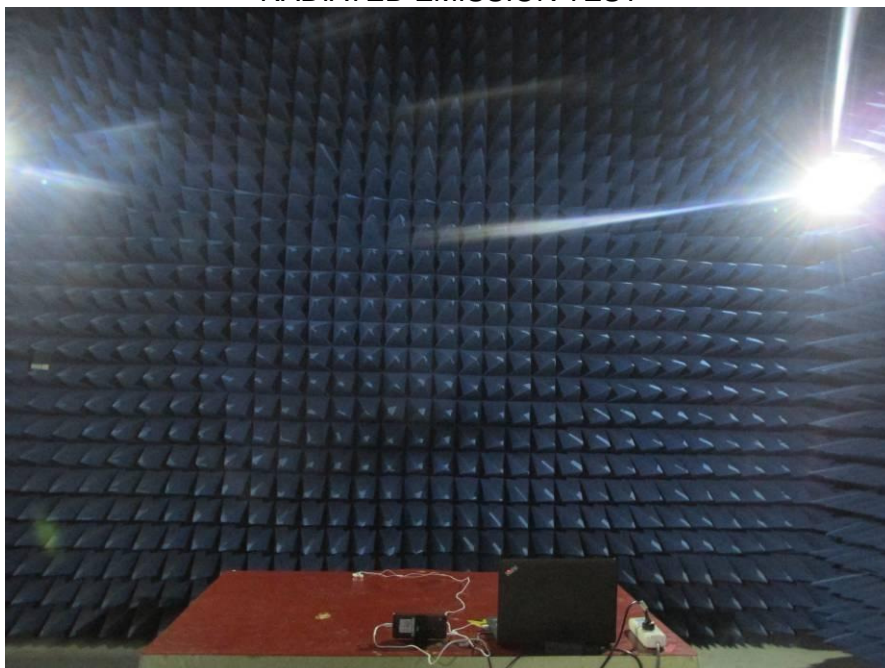
RADIATED EMISSION TEST



RADIATED EMISSION TEST



RADIATED EMISSION TEST



7. PHOTOGRAPHS OF EUT

Appearance photograph of EUT



Appearance photograph of EUT



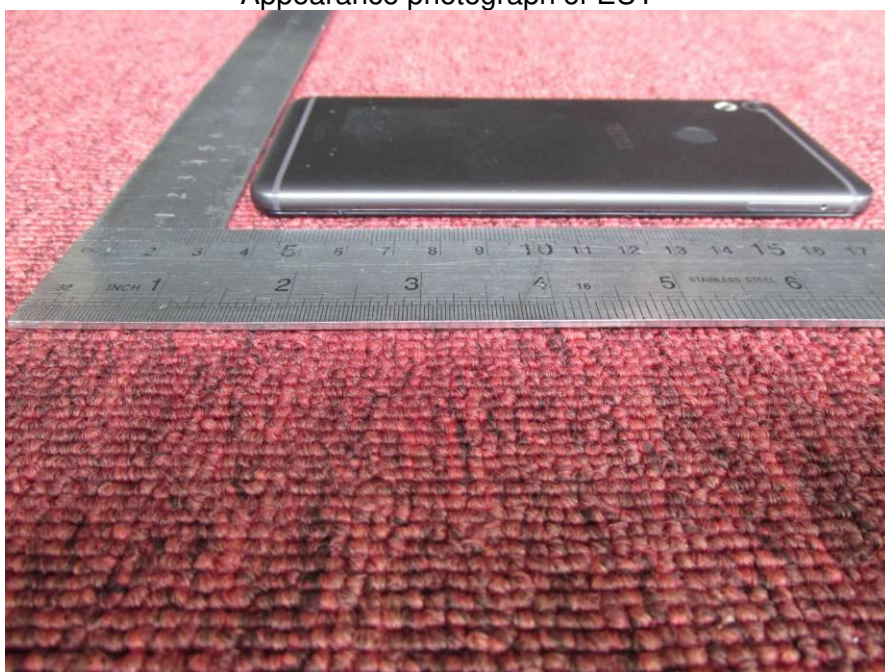
Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



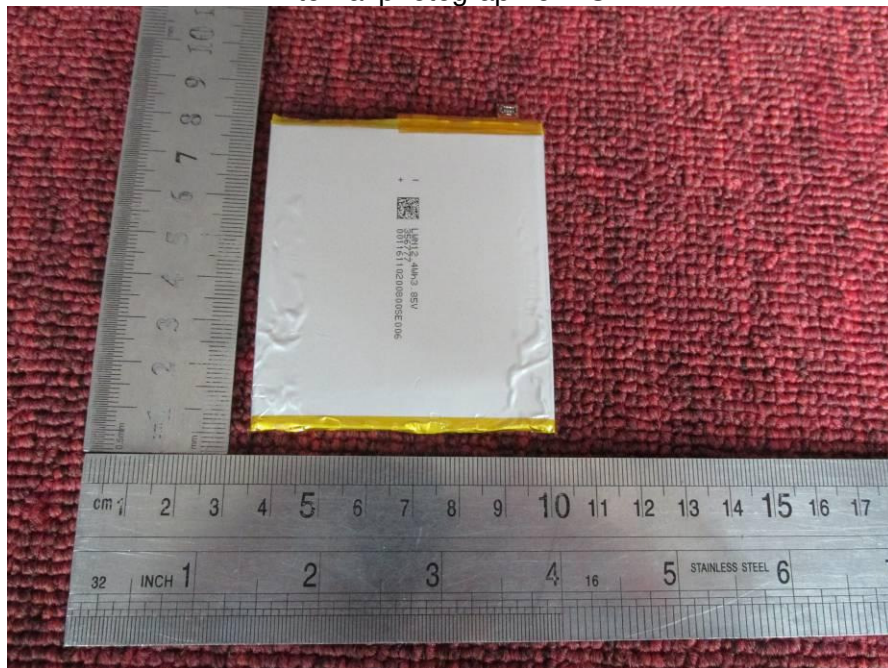
Internal photograph of EUT



Internal photograph of EUT



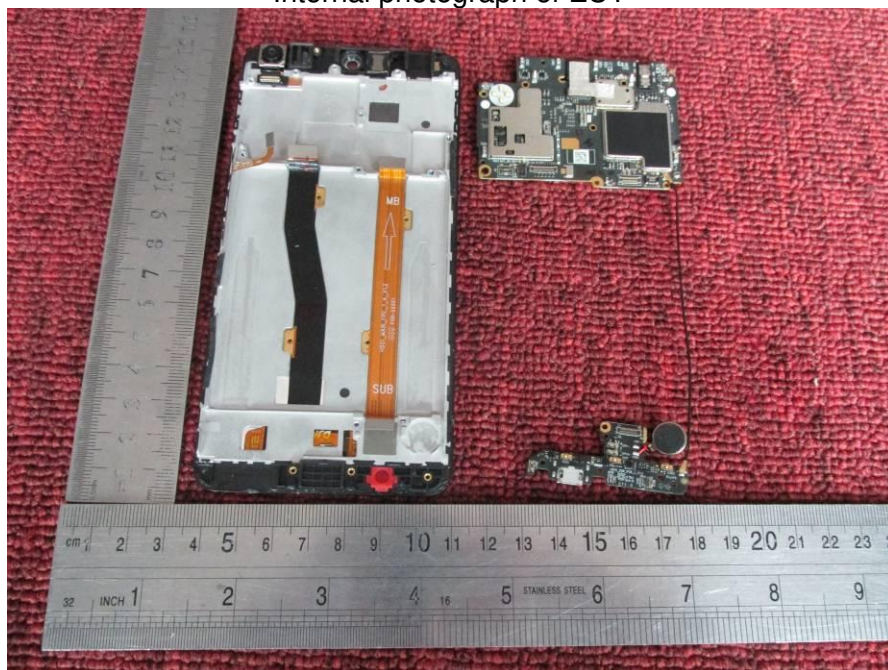
Internal photograph of EUT



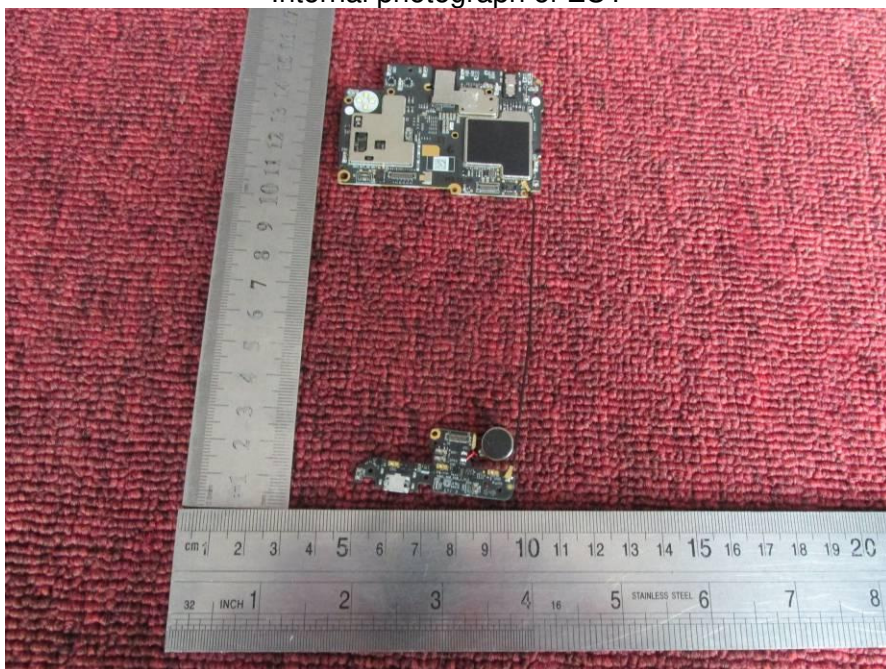
Internal photograph of EUT



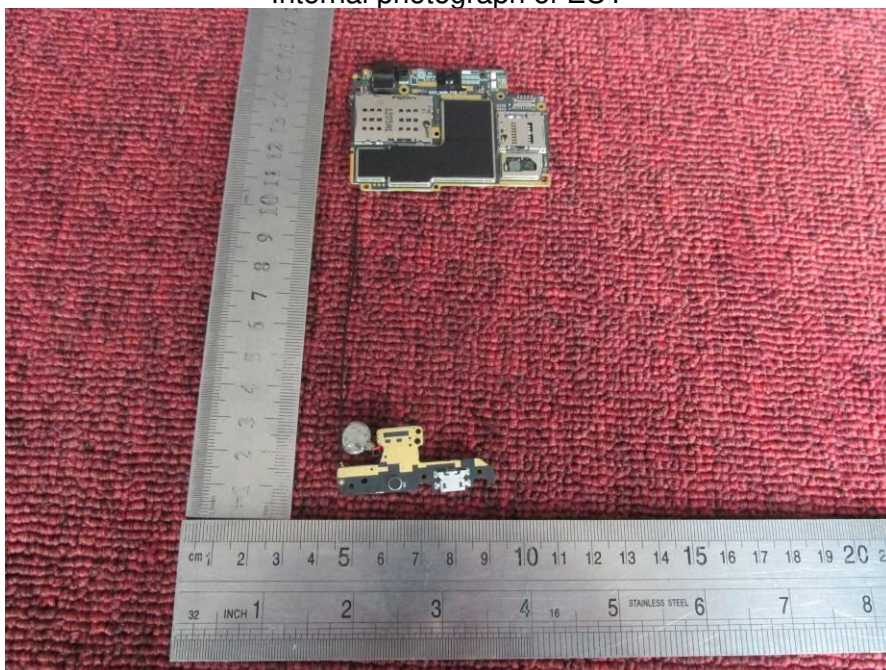
Internal photograph of EUT



Internal photograph of EUT



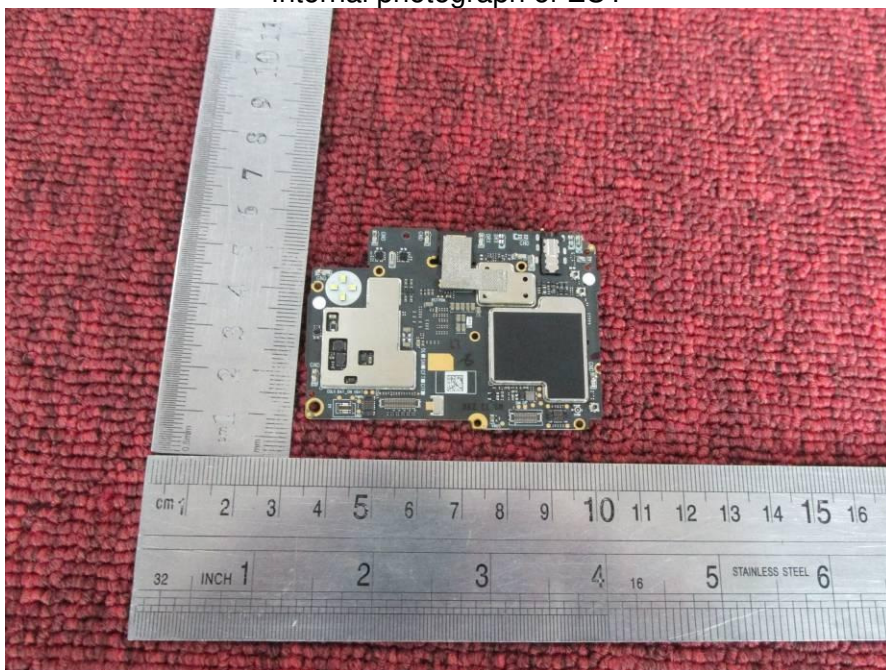
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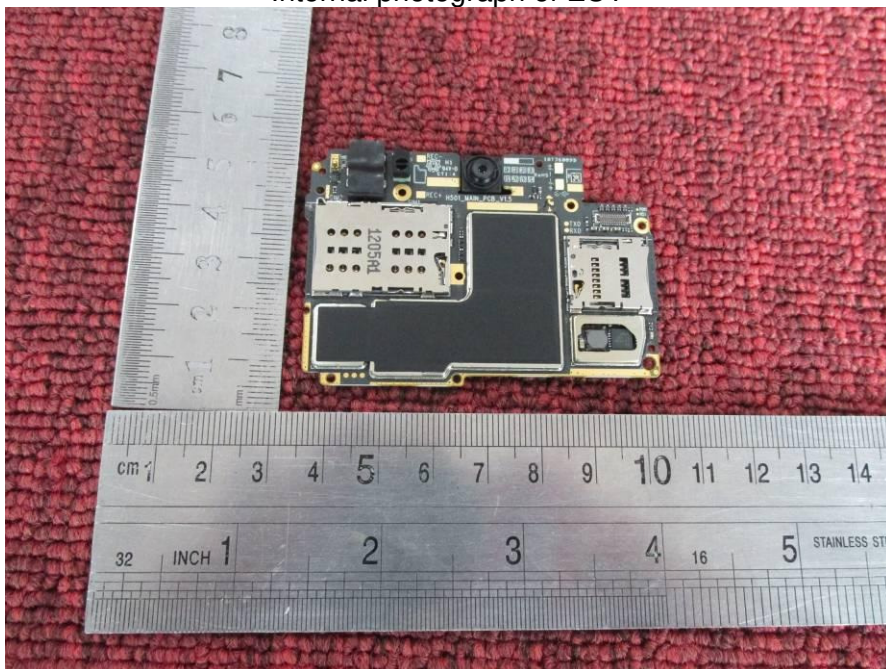
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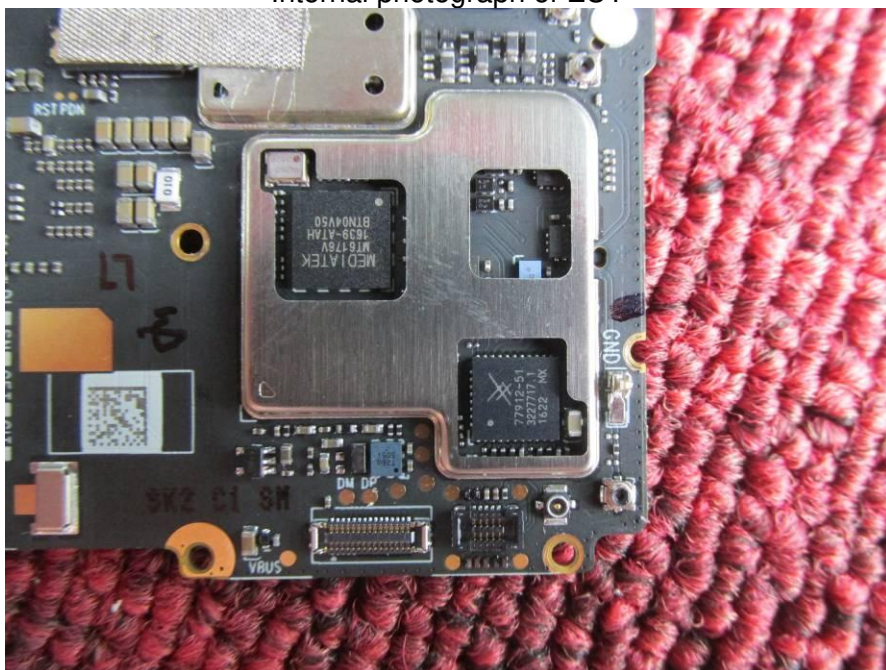
Internal photograph of EUT



Internal photograph of EUT



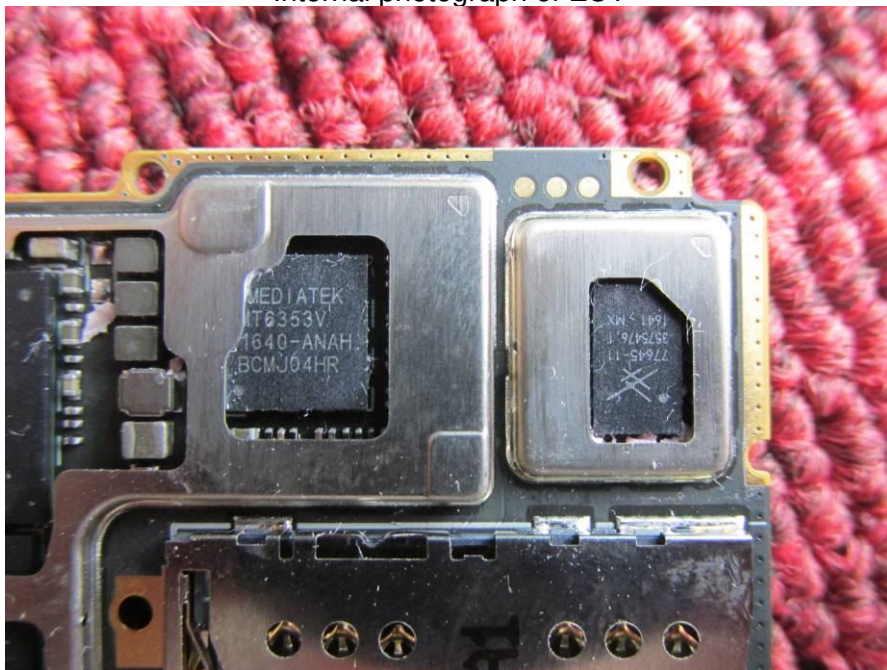
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



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