



# **RADIO TEST REPORT**

## **ETSI EN 303 345-1 V1.1.1 (2019-06)**

## **ETSI EN 303 345-3 V1.1.1 (2021-06)**

**Product :** Smartphone

**Trade Mark :** CUBOT

**Model Number :** KINGKONG MINI 2 PRO

**Family Model :** N/A

**Report No. :** S22032803202009

### **Prepared for**

Shenzhen Huafurui Technology Co., Ltd

Unit 1401 &1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen, P.R. China

### **Prepared by**

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**TEST RESULT CERTIFICATION**

**Applicant's name** ..... Shenzhen Huafurui Technology Co., Ltd  
**Address** ..... Unit 1401 &1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen, P.R. China  
**Manufacturer's Name**... Shenzhen Huafurui Technology Co., Ltd  
**Address** ..... Unit 1401 &1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen, P.R. China

**Product description**

**Product name** ..... Smartphone  
**Trademark** ..... CUBOT  
**Model and/or type reference** ..... KINGKONG MINI 2 PRO  
**Family Model** ..... N/A

**Standards** ..... ETSI EN 303 345-1 V1.1.1 (2019-06)  
ETSI EN 303 345-3 V1.1.1 (2021-06)

This device described above has been tested by Shenzhen NTEK, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.2 requirements. And it is applicable only to the tested sample identified in the report.

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**Date of Test** .....

**Date (s) of performance of tests**..... Feb 18. 2022 ~ Mar 15. 2022

**Date of Issue** ..... Mar 16. 2022

**Test Result** ..... **Pass**

**Testing Engineer** :



(Allen Liu)

**Authorized Signatory** :



(Alex Li)

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## Revision History

Report No.	Version	Description	Issued Date
S22032803202009	Rev.01	Initial issue of report	Mar 16. 2022

## 1. GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF EUT

Equipment	Smartphone	
Trade Mark	CUBOT	
Model Number.	KINGKONG MINI 2 PRO	
Family Model	N/A	
Model Difference	N/A	
Product Description	The EUT is Smartphone	
	Operation Frequency:	FM: 87.5 MHz to 108 MHz
	Modulation Type:	FM: Analog modulation
	Number Of Channel	Please see Note 2.
	Antenna Designation:	Use earphone as Antenna
Channel List	Refer to below	
Adapter	Model: HJ-0501000B3-EU Input: 100-240V~50/60Hz, 0.15A Output: 5.0V---1.0A, 5.0W	
Battery	DC 3.85V, 3000mAh	
Rating	DC 3.85V from battery or DC 5V from Adapter.	
I/O Ports	Refer to users manual	
Hardware Version	LD936_MB_V1.0	
Software Version	CUBOT_KINGKONG MINI 2 Pro_C021C_V01	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

## 1.2 TEST CONDITIONS AND CHANNEL

	Normal Test Conditions
Temperature	15°C - 35°C
Relative Humidity	20% - 75%
Supply Voltage	DC 5V

### Number Of Channel

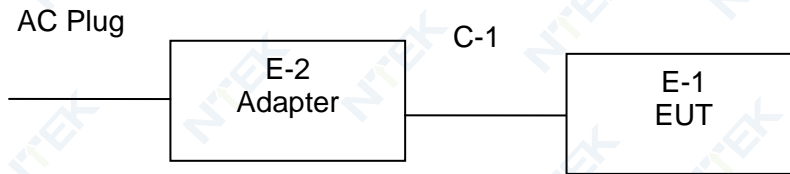
Channel	Frequency (MHz)
01	87.5
02	87.6
k	$87.5+0.1(k-1)$
106	98.0
.....	...
.....	.....
205	107.9
206	108.0

Test Channel	EUT Channel	Test Frequency (MHz)
Middle	CH106	98.0

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.

### 1.3 DESCRIPTION OF TEST CONDITIONS



#### 1.4 DESCRIPTION OF SUPPORT UNITS

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	Model/Type No.	Series No.	Note
E-1	Smartphone	KINGKONG MINI 2 PRO	N/A	EUT
E-2	Adapter	HJ-0501000B3-EU	N/A	Peripherals

Item	Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.0m	

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.



### 1.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	ESG VETCTOR SIGNAL GENERATOR	Agilent	E4438C	MY45093347	2021.04.27	2022.04.26	1 year
2	PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2021.07.01	2022.06.30	1 year
3	Coupler	Mini-Circuits	ZADC-10-63-S+	SF794101410	2020.04.07	2023.04.06	3 year
4	Audio Analyzer	audio precision	ATS-1	41128	2021.04.27	2022.04.26	1 year
5	Spectrum Analyzer	Agilent	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
6	NTEK-EMC -Cable 005	N/A	N/A	N/A	N/A	N/A	N/A

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
2	Test Cable	N/A	R-01	N/A	2020.05.11	2023.05.10	3 year
3	Test Cable	N/A	R-02	N/A	2020.05.11	2023.05.10	3 year
4	EMI Test Receiver	R&S	ESCI-7	101318	2021.04.27	2022.04.26	1 year
5	Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
6	Turn Table	EM	SC100	060531	N/A	N/A	N/A
7	50Ω Switch	Anritsu Corp	MP59B	6200983705	2020.05.11	2023.05.10	3 year
8	Spectrum Analyzer	Agilent	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
9	Horn Antenna	EM	EM-AH-10180	2011071402	2021.03.29	2022.03.28	1 year
10	Amplifier	EMC	EMC051835SE	980246	2021.07.01	2022.06.30	1 year

**2. SUMMARY OF TEST RESULTS**

The EUT has been tested according to the following specifications:

ETSI EN 303 345-1 V1.1.1 (2019-06)

ETSI EN 303 345-3 V1.1.1 (2021-06)

Clause	Test Item	Results
4.2	Sensitivity	Pass
4.3	Adjacent channel selectivity and blocking	Pass
4.4	Unwanted emissions in the spurious domain	Pass

## 2.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd.

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China

FCC Registered No.: 463705 IC Registered No.:9270A-1

CNAS Registration No.:L5516

## 2.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Uncertainty in conducted measurements	$\pm 1$ dB
2	Uncertainty in radiated measurements	$\pm 6$ dB
4	All emissions,radiated	$\pm 0.21$ dB

### 3. TEST PROCEDURES AND RESULTS

#### 3.1 SENSITIVITY

##### 3.1.1 LIMITS

Refer to chapter 4.2 of ETSI EN 303 345-3 V1.1.1 (2021-06)

**Table 2: FM sensitivity requirements**

De-modulation	Tuned frequency band	Wanted signal centre frequency (MHz)	Required sensitivity limit	
			Conducted (dBm)	Radiated (dBµV/m)
FM	VHF band II	98	-90	50 (see note)
NOTE: For products with an integral antenna, the requirement is relaxed to 67 dBµV/m.				

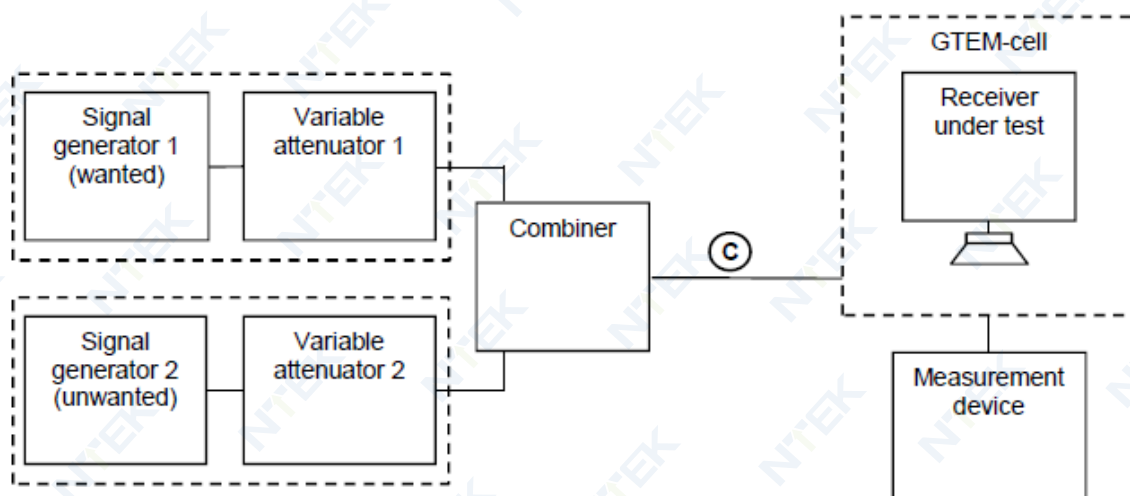
The limits for sensitivity specified in table 2 shall apply. Each figure quoted is the required level of wanted signal which provides a given level of audio quality. The audio impairment criteria relevant for these tests is that the audio SNR  $\geq 40$  dBQ ref  $\pm 60,8$  kHz deviation, and that there shall be 10 seconds of audio with no subjective impairments (e.g. clicks resulting from FM threshold effects).

##### 3.1.2 TEST PROCEDURE

Refer to chapter 5.3.4 of EN 303 345-1 V1.1.1 (2019-06)

Measurement	
<input type="checkbox"/> Conducted measurement	<input checked="" type="checkbox"/> Radiated measurement

### 3.1.3 TEST SETUP



**Figure 1: Generic measurement arrangement for receivers with built-in or integral antennas**

### 3.1.4 TEST SIGNALS

The generated FM signals (wanted and unwanted) and the blocking signal shall be in accordance with table 2. The configuration is based on Recommendation ITU-R BS.641 [i.6].

**Table 1: FM configuration**

Parameter	FM signals		AM signal Blocking
	Wanted	Unwanted	
Audio modulation	1 kHz tone	Weighted noise Recommendation ITU-R BS.559-2 [3], clause 1, band- limited to 15 kHz (see note 1)	1 kHz tone
Other modulation parameters	±60,8 kHz peak deviation	15,9 kHz RMS deviation (see note 2)	80 % depth
Pilot tone	None	None	
NOTE 1: The filter shall have a cut-off frequency of 15 kHz and a minimum roll-off of 60 dB/octave. NOTE 2: This is equivalent to a quasi-peak deviation of 34,8 kHz and has pre-emphasis enabled. The quasi-peak level measurement is defined by Recommendation ITU-R BS.641 [i.5], clause 5; with pre-emphasis disabled the quasi-peak deviation is 32 kHz (14,5 kHz RMS).			

The means of generating the noise modulation for the "unwanted" signal is shown in figure 1.

### 3.1.5 TEST RESULTS

EUT :	Smartphone	Model Number :	KINGKONG MINI 2 PRO
Temperature :	26°C	Relative Humidity:	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	RX-Middle Channel		

Frequency (MHz)	E (dBuV/m)	Signal(dBm)	Sound (mV)	Noise (mV)	SN (dBQ)
98	67	-24.88	367.268	1.121	50.30754955

## 3.2. ADJACENT CHANNEL SELECTIVITY AND BLOCKING

### 3.2.1 LIMITS

Refer to chapter 4.3 of ETSI EN 303 345-3 V1.1.1 (2021-06)

The limits for selectivity and blocking specified in table 4 shall apply with the channel spacings given in table 3. Each figure quoted is the minimum acceptable level of unwanted signal, relative to that of the wanted signal, which provides a given level of audio quality. The audio impairment criteria relevant for these tests is that the audio SNR  $\geq 40$  dBQ ref  $\pm 60,8$  kHz deviation, and that there shall be 10 seconds of audio with no subjective impairments (e.g. clicks resulting from FM threshold effects).

**Table 4: Adjacent channel selectivity and blocking requirements**

De-modulation (see note 1)	Tuned frequency band	C Wanted signal centre frequency (MHz)	C Wanted signal level		Required I/C ratio (see notes 2 and 3)			
			Conducted (dBm)	Radiated (dB $\mu$ V/m)	N = 2 (dB)	N = 3 (dB)	N = 4 (dB)	Blocking (dB)
FM (built-in or integral antenna)	VHF band II	98	n/a	56 (see note 4)	-15	-3	8	20
FM (external antenna)	VHF band II	98	-84	n/a	3	17	30	30

NOTE 1: The ACS and blocking requirements are currently separated into different limits for radiated and conducted testing methods. These limits are likely to be unified in a future revision of the present document. Users of the present document should consult frequently the latest list published in the Official Journal of the European Union.

NOTE 2: The frequency of the interferer shall be calculated using the channel spacing data in table 3 for each of the 6 defined adjacent channels  $N = \{-4, -3, -2, +2, +3, +4\}$  and the two blocking offsets. Each row of table 4 thus defines 8 individual tests.

NOTE 3: The minimum level of I for the relevant level of impairment is calculated by adding the I/C ratio to the wanted C level.

NOTE 4: The wanted signal level for receivers with integral antenna is 73 dB $\mu$ V/m.

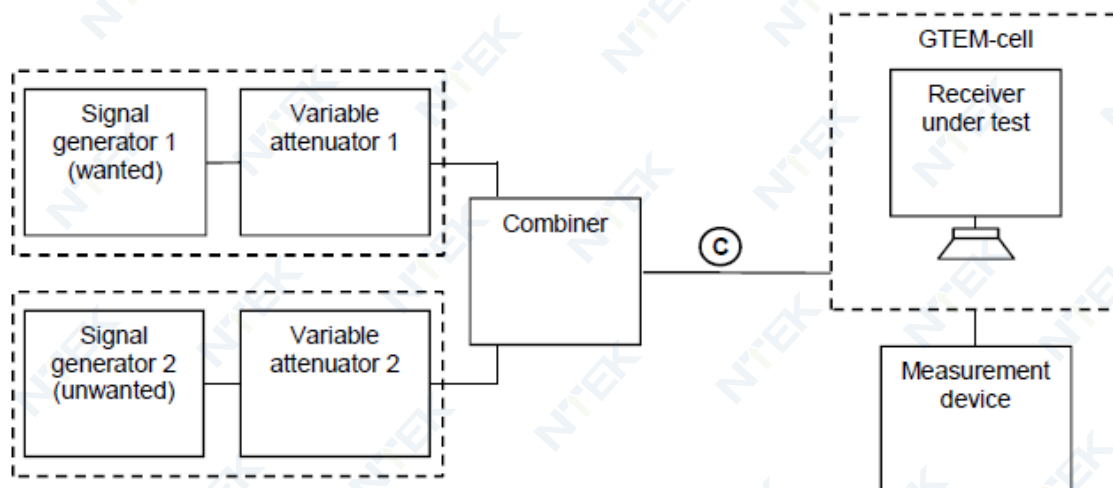


### 3.2.2 TEST PROCEDURE

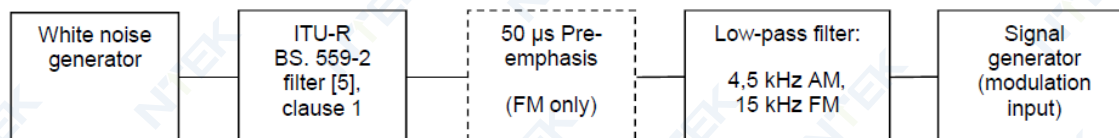
Refer to chapter 5.3.5 of EN 303 345-1 V1.1.1 (2019-06)

Measurement	
<input type="checkbox"/> Conducted measurement	<input checked="" type="checkbox"/> Radiated measurement

### 3.2.3 TEST SETUP



**Figure 1: Generic measurement arrangement for receivers with built-in or integral antennas**



**Figure 6: Arrangement for generating AM and FM interferers**

### 3.2.4 TEST SIGNALS

The generated FM signals (wanted and unwanted) and the blocking signal shall be in accordance with table 2. The configuration is based on Recommendation ITU-R BS.641 [i.6].

**Table 1: FM configuration**

Parameter	FM signals		AM signal Blocking
	Wanted	Unwanted	
Audio modulation	1 kHz tone	Weighted noise Recommendation ITU-R BS.559-2 [3], clause 1, band- limited to 15 kHz (see note 1)	1 kHz tone
Other modulation parameters	±60,8 kHz peak deviation	15,9 kHz RMS deviation (see note 2)	80 % depth
Pilot tone	None	None	
NOTE 1: The filter shall have a cut-off frequency of 15 kHz and a minimum roll-off of 60 dB/octave. NOTE 2: This is equivalent to a quasi-peak deviation of 34,8 kHz and has pre-emphasis enabled. The quasi-peak level measurement is defined by Recommendation ITU-R BS.641 [i.5], clause 5; with pre-emphasis disabled the quasi-peak deviation is 32 kHz (14,5 kHz RMS).			

The means of generating the noise modulation for the "unwanted" signal is shown in figure 1.

The signal generator 1 provides the wanted Signal (dBm), and the signal generator 2 provides unwanted signal (dBm).

### 3.2.5 TEST RESULTS

EUT :	Smartphone	Model Number :	KINGKONG MINI 2 PRO
Temperature :	26°C	Relative Humidity:	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	RX-Middle Channel		

#### EN 303 345 Adjacent channel selectivity

FM (Integral)					
Frequency (MHz)	E (dBuV/m)	Signal(dBm)	Sound (mV)	Noise (mV)	SN (dBQ)
98	73	-18.28			
97.6	81	-9.93	364.961	1.018	51.090
97.7	70	-21.86	372.407	0.945	51.912
97.8	58	-34.28	366.012	1.062	50.747
98.2	58	-34.3	361.697	1.141	50.021
98.3	70	-21.93	358.47	0.979	51.273
98.4	81	-10.36	375.591	0.979	51.679

#### EN 303 345 Receiver blocking

FM (Integral)					
Frequency (MHz)	E (dBuV/m)	Signal(dBm)	Sound (mV)	Noise (mV)	SN (dBQ)
98	73	-18.28			
98.8	93	2.42	360.614	1.021	50.960
97.2	93	2.35	366.415	1.041	50.930



### 3.3. UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

#### 3.3.1 LIMITS

Refer to chapter 4.2.6.2 of ETSI EN 303 345-3 V1.1.1 (2021-06)

The limits in CENELEC EN 55032 [4], table A.4, table A5 and A6.

#### 3.3.2 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

Table clause	Frequency range MHz	Measurement			Class B limits dB(μV/m)
		Facility (see Table A.1)	Distance m	Detector type / bandwidth	
A4.1	30 to 230	OATS/SAC	10	Quasi Peak / 120 kHz	30
	230 to 1 000				37
A4.2	30 to 230	OATS/SAC	3		40
	230 to 1 000				47
A4.3	30 to 230	FAR	10	Quasi Peak / 120 kHz	32 to 25
	230 to 1 000				32
A4.4	30 to 230	FAR	3		42 to 35
	230 to 1 000				42

Apply only table clause A4.1 or A4.2 or A4.3 or A4.4 across the entire frequency range.

These requirements are not applicable to the local oscillator and harmonics frequencies of equipment covered by Table A.6.

Table Clause	Frequency Range MHz	Measurement			Class B Limit dB(μV/m)		
		Facility (see Table A.1)	Distance m	Detector type / Bandwidth	Fundamental	Harmonics	
A6.1	30 to 230	OATS/SAC	10	Quasi Peak / 120 kHz	50	42	
	230 to 300					42	
	300 to 1 000					46	
A6.2	30 to 230	OATS/SAC	3		Quasi Peak / 120 kHz	60	52
	230 to 300						52
	300 to 1 000						56
A6.3	30 to 230	FAR	10	Quasi Peak / 120 kHz		52 to 45	44 to 37
	230 to 300					45	37
	300 to 1 000					45	41
A6.4	30 to 230	FAR	3		Quasi Peak / 120 kHz	62 to 55	54 to 47
	230 to 300					55	47
	300 to 1 000					55	51

Apply only A6.1 or A6.2 or A6.3 or A6.4 across the entire frequency range.

These relaxed limits apply only to emissions at the fundamental and harmonic frequencies of the LO. Signals at all other frequencies shall be compliant with the limits given in Table A.4.

(Above 1000MHz)

Table clause	Frequency range MHz	Measurement			Class B limits dB(μV/m)
		Facility (see Table A.1)	Distance m	Detector type/ bandwidth	
A5.1	1 000 to 3 000	FSOATS	3	Average/ 1 MHz	50
	3 000 to 6 000				54
A5.2	1 000 to 3 000			Peak/ 1 MHz	70
	3 000 to 6 000				74
Apply A5.1 and A5.2 across the frequency range from 1 000 MHz to the highest required frequency of measurement derived from Table 1.					

Notes:

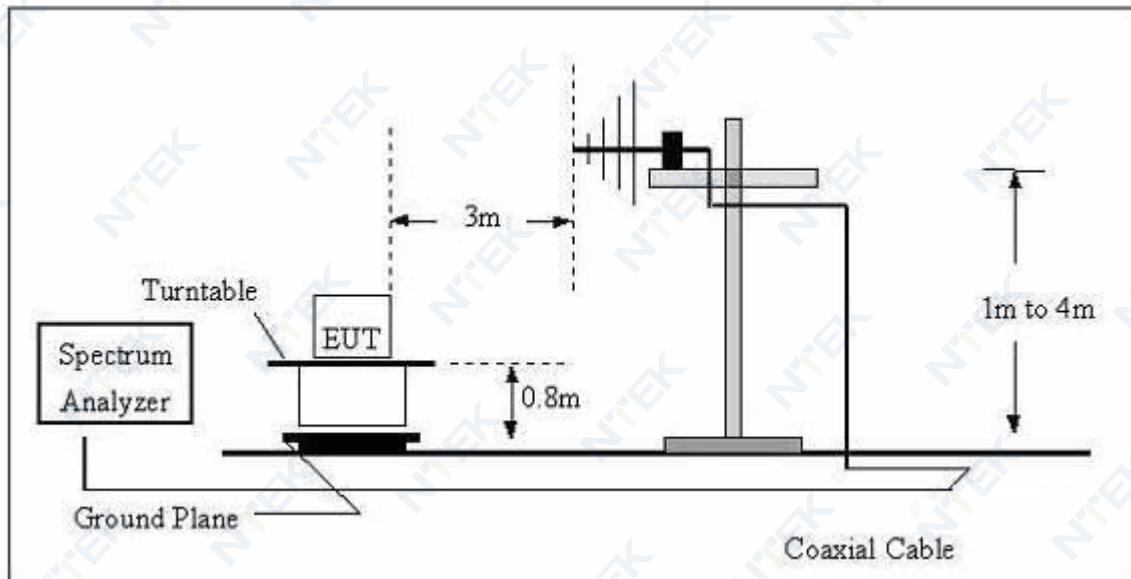
- (1) The limit for radiated test was performed according to as following:  
EN55032.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### 3.3.3 TEST PROCEDURE

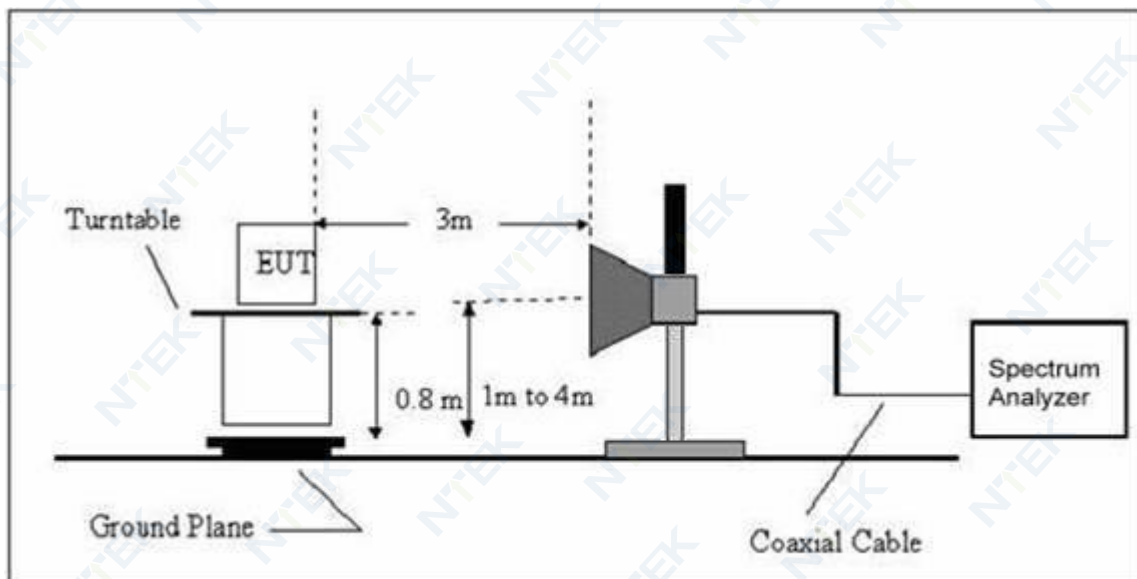
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3M meter open area test site. The table was rotated 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.

### 3.3.4 TEST SETUP

#### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



### 3.3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.2** Unless otherwise a special operating condition is specified in the follows during the testing.

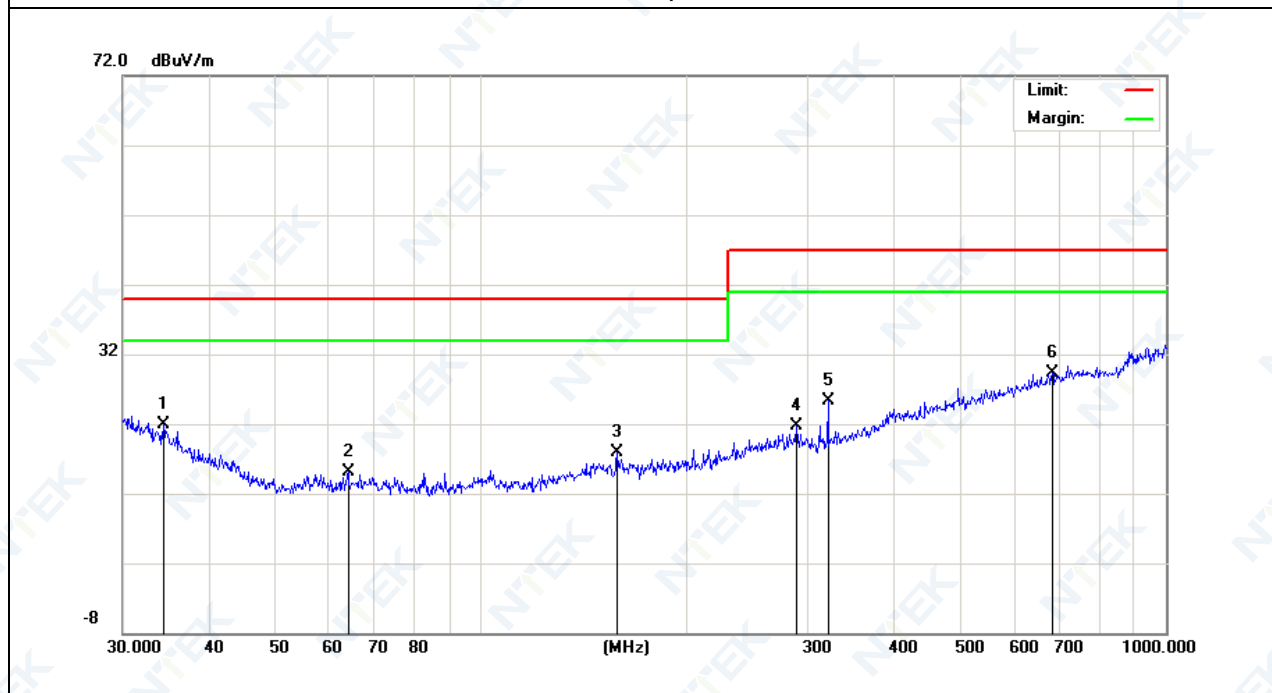
### 3.3.6 TEST RESULTS (30-1000MHz)

EUT :	Smartphone	Model Number :	KINGKONG MINI 2 PRO
Temperature :	25.4℃	Relative Humidity :	54%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Power :	DC 5V from Adapter AC 230V/50Hz	Test Mode :	FM

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
34.3963	6.36	15.47	21.83	40.00	-18.17	QP
63.9828	6.38	8.71	15.09	40.00	-24.91	QP
158.1123	6.71	11.14	17.85	40.00	-22.15	QP
289.0020	7.52	14.28	21.80	47.00	-25.20	QP
321.0608	10.65	14.71	25.36	47.00	-21.64	QP
682.3484	7.06	22.23	29.29	47.00	-17.71	QP

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

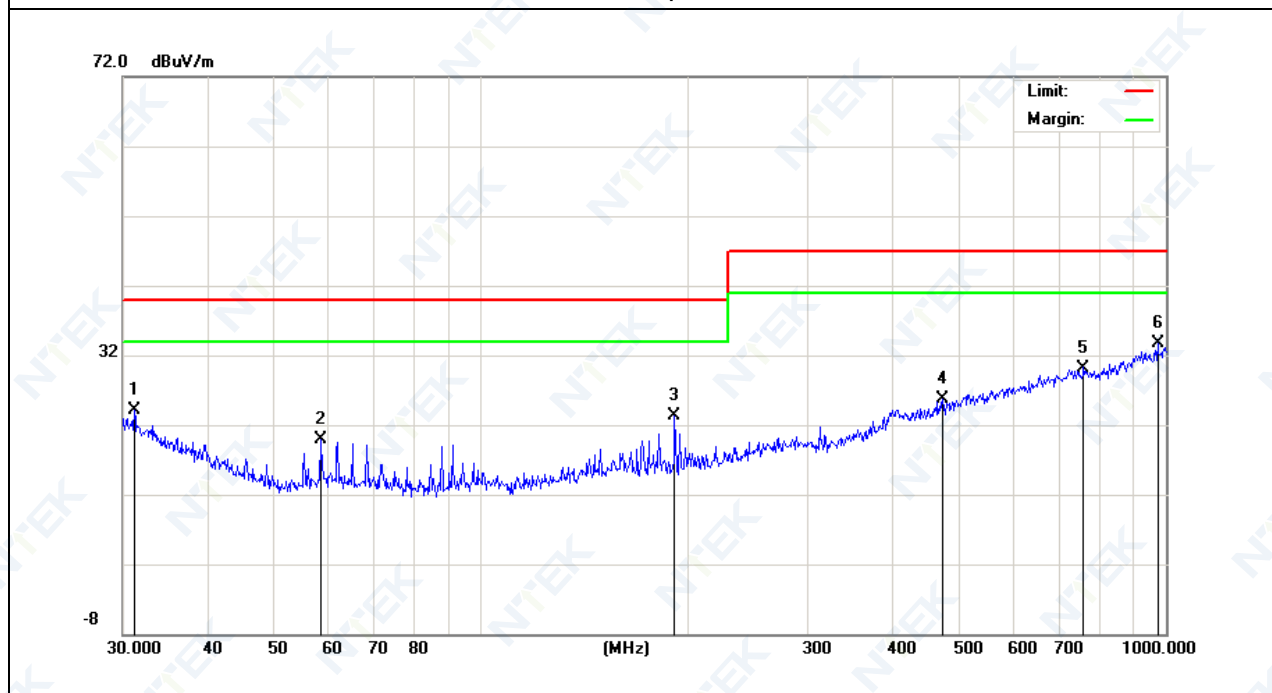


EUT :	Smartphone	Model Number :	KINGKONG MINI 2 PRO
Temperature :	25.4 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Polarization :	Vertical
Test Power :	DC 5V from Adapter AC 230V/50Hz	Test Mode :	FM

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
31.1798	6.99	17.16	24.15	40.00	-15.85	QP
58.4074	11.41	8.50	19.91	40.00	-20.09	QP
191.7450	12.24	11.03	23.27	40.00	-16.73	QP
472.1760	6.06	19.57	25.63	47.00	-21.37	QP
758.0408	6.85	23.35	30.20	47.00	-16.80	QP
972.3374	7.42	26.24	33.66	47.00	-13.34	QP

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



### 3.3.7 TEST RESULTS(1000-6000 MHz)

EUT :	Smartphone	Model Number :	KINGKONG MINI 2 PRO
Temperature :	25.1℃	Relative Humidity :	53%
Pressure :	1010 hPa	Test Mode :	FM
Test Power :	DC 5V from Adapter AC 230V/50Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
V	1312.500	40.21	0.06	40.27	70.00	-29.73	peak
V	1600.000	40.41	0.51	40.92	70.00	-29.08	peak
V	1750.000	39.50	0.51	40.01	70.00	-29.99	peak
V	2975.000	40.49	2.54	43.03	70.00	-26.97	peak
V	4237.500	38.25	4.33	42.58	74.00	-31.42	peak
V	5637.500	35.69	6.03	41.72	74.00	-32.28	peak
H	1437.500	39.99	0.41	40.40	70.00	-29.60	peak
H	1912.500	39.38	0.45	39.83	70.00	-30.17	peak
H	2037.500	39.88	0.48	40.36	70.00	-29.64	peak
H	2975.000	39.16	2.54	41.70	70.00	-28.30	peak
H	4225.000	37.87	4.29	42.16	74.00	-31.84	peak
H	5550.000	35.93	5.87	41.80	74.00	-32.20	peak

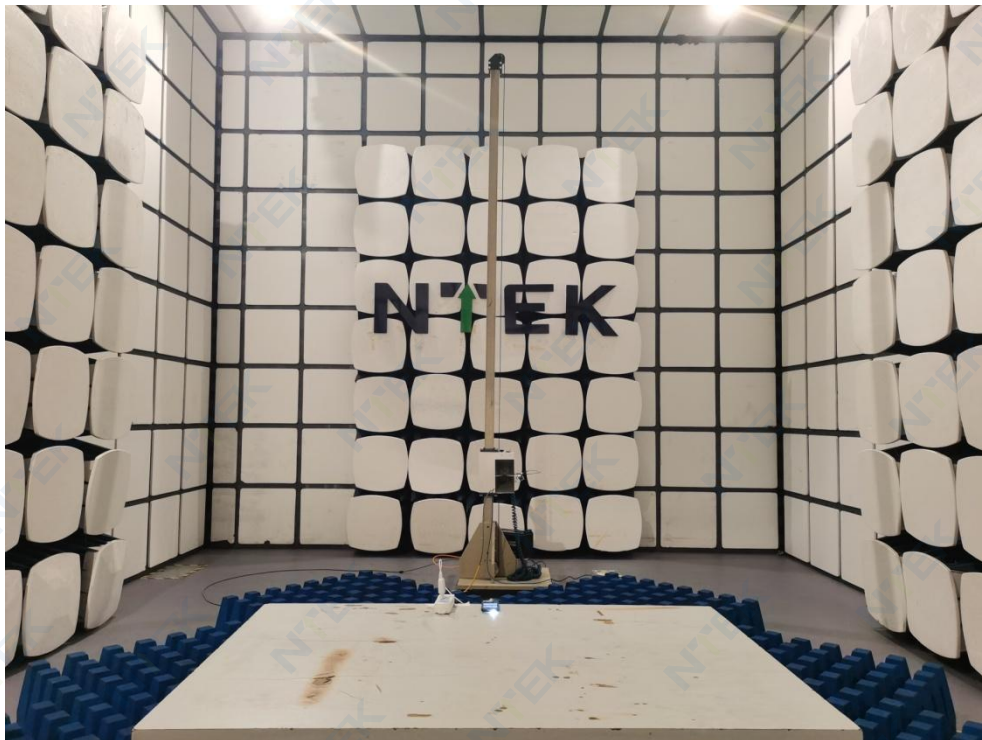
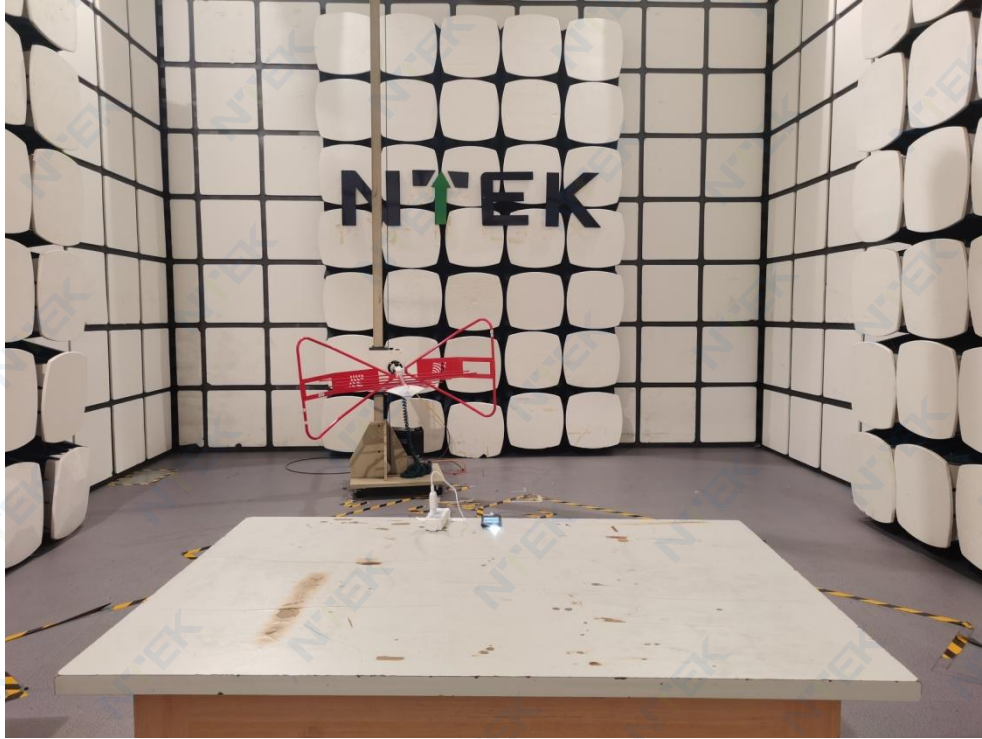
**Remark:**

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



#### 4. EUT TEST PHOTO

##### Measurement Photos



END OF REPORT