



FCC RADIO TEST REPORT FCC ID: 2ANMU-K15PLUS

Product : Smart Phone Trade Mark : OUKITEL Model Name : K15 PLUS Family Model : N/A Report No. : S21010801602007

Prepared for

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd. 1/F, Building E, Fenda Science Park, Sanwei Community,Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel. 400-800-6106, 0755-3699 5508

Website: http://www.ntek.org.cn





TEST RESULT CERTIFICATION

	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China						
	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO., LTD						
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China						
Product description							
Product name:	Smart Phone						
Model and/or type reference :	K15 PLUS						
Family Model:	N/A						
Standards	FCC Part15.225						
Test procedure	ANSI C63.10-2013						
	as been tested by NTEK, and the test results show that the n compliance with the FCC requirements. And it is applicable only n the report.						
	ced except in full, without the written approval of NTEK, this vised by NTEK, personnel only, and shall be noted in the revision or 	f					
Date (s) of performance of tests	08 Jan. 2021 ~ 26 Jan. 2021						
Date of Issue							
Test Result	Pass						
Testing Engine	eer : Many. Hu						
	(Mary Hu)						
Technical Man	Technical Manager : 7						
	(Jason Chen)						
Authorized Sig	Authorized Signatory :						
	(Alex Li)						





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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.225)					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	Pass			
15.205(a) 15.209 15.225(abcd)	Radiated Spurious Emission	Pass			
15.225 15.215(c)	20dB Bandwidth				
15.225(e) Frequency Tolerance		Pass			
15.203	Antenna Requirement	Pass			

NOTE:

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



1.1 TEST FACILITY

All measurement facilities used to collect the measurement data are located at 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

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The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

Site Description

CNAS-Lab. :	The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
IC-Registration	The Certificate Registration Number is L5516. The Certificate Registration Number is 9270A.
10-registration	CAB identifier:CN0074
FCC- Accredited	Test Firm Registration Number: 463705.
	Designation Number: CN1184
A2LA-Lab.	The Certificate Registration Number is 4298.01
	This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories.
	This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system
	(refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm :	Shenzhen NTEK Testing Technology Co., Ltd.
Site Location :	1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang
	Street, Bao'an District, Shenzhen 518126 P.R. China.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{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	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone			
Trade Mark	OUKITEL			
Model Name	K15 PLUS			
Family Model	N/A			
Model Difference	N/A			
Product Description	The EUT is a Smart PhoneOperation Frequency:13.56MHzModulation Type:ASKNumber Of Channel1CH.Antenna Designation:Induction coil			
Adapter	Model: HJ-FC017K7-US Input: 100-240V~50/60Hz 0.6A Output: 5V2000mA 7V2000mA 9V2000mA 12V1500mA 18.0W			
Rating	DC 3.85V/10000mAh from battery or DC 9V from Adapter.			
HW Version	HCT-M602MB-A2			
SW Version	OUKITEL_K15 Plus_ROW_V01			

Note:

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

2.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Induction coil	N/A	N/A	Antenna



2.2 DESCRIPTION OF TEST MODES

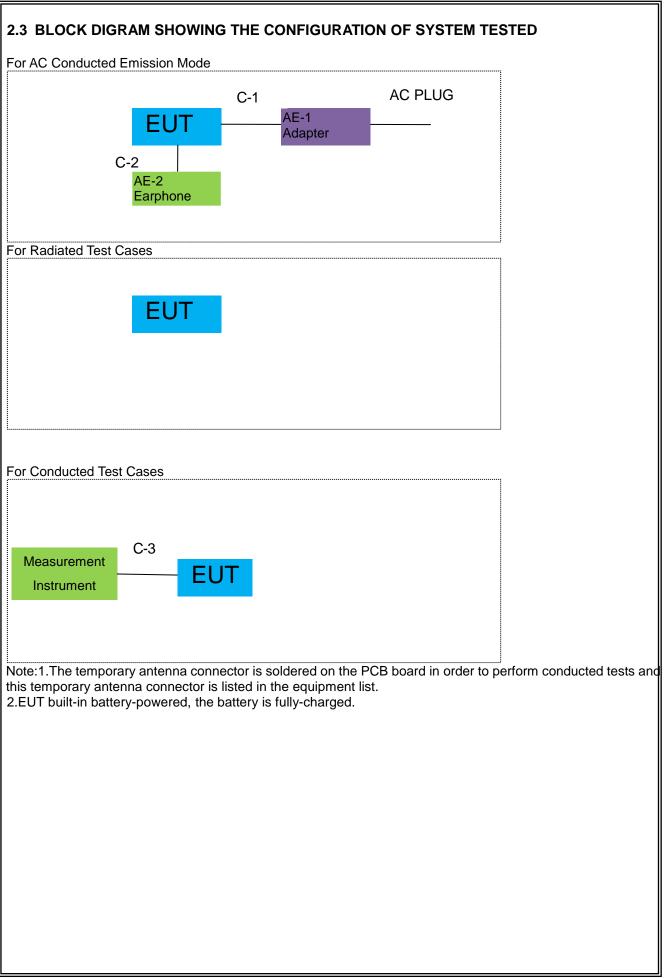
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration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

Pretest Mode	Description
Mode 1	TX-13.56MHz

For Conducted Emission				
Final Test Mode Description				
Mode 1 TX-13.56MHz				

For Radiated Emission					
Final Test Mode	Final Test Mode Description				
Mode 1 TX-13.56MHz					







2.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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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
AE-1	Adapter	HJ-FC017K7-US	N/A	Peripherals
AE-2	Earphone	N/A	N/A	Peripherals

ltem	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	YES	NO	1.0m	
C-2	Earphone Cable	NO	NO	1.2m	
C-3	RF Cable	YES	NO	0.1m	

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.

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2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS Provide the state of the state

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	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
	1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2020.05.11	2021.05.10	1 year
	2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2020.05.11	2021.05.10	1 year
	3	Spectrum Analyzer	R&S	FSV40	101417	2020.08.07	2021.08.06	1 year
	4	Test Receiver	R&S	ESPI7	101318	2020.05.11	2021.05.10	1 year
	5	Bilog Antenna	TESEQ	CBL6111D	31216	2020.04.11	2021.04.10	1 year
	6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
	7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2020.05.11	2021.05.10	1 year
	8	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2020.05.11	2021.05.10	1 year
	9	LF Cable	N/A	R-03	N/A	2020.05.11	2023.05.10	3 year
	10	PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2020.05.11	2021.05.10	1 year
	11	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2020.05.11	2023.05.10	3 year
	12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2020.05.11	2023.05.10	3 year

AC Conduction Test equipment

ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2020.05.11	2021.05.10	1 year
2	LISN	R&S	ENV216	101313	2020.05.11	2021.05.10	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2020.05.11	2021.05.10	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note:

1.We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

2. Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.



3. ANTENNA REQUIREMENT

3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

3.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requirement.



4. EMC EMISSION TEST

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4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

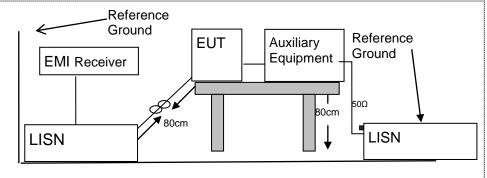
	Conducted	nducted Emission Limit			
Frequency(MHz)	Quasi-peak	Average			
0.15-0.5	66-56*	56-46*			
0.5-5.0	56	46			
5.0-30.0	60	50			

Note: 1. *Decreases with the logarithm of the frequency

2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.1.2 TEST CONFIGURATION



4.1.3 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- Connect EUT 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.
- 4. 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 40cm 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.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item -EUT Test Photos.





4.1.4 TEST RESULT

EUT :	Smart Phone	Model Name :	K15 PLUS
Temperature :	20.9 °C	Relative Humidity :	40%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 9V from Adapter AC 120V/60Hz	Test Mode :	Mode 1

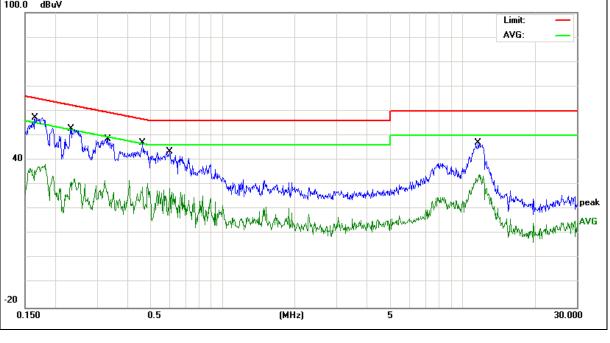
						1
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1650	47.64	9.56	57.20	65.20	-8.00	QP
0.1650	28.85	9.56	38.41	55.20	-16.79	AVG
0.2340	43.35	9.55	52.90	62.30	-9.40	QP
0.2340	22.82	9.55	32.37	52.30	-19.93	AVG
0.3320	39.06	9.54	48.60	59.40	-10.80	QP
0.3320	22.14	9.54	31.68	49.40	-17.72	AVG
0.4660	37.55	9.55	47.10	56.58	-9.48	QP
0.4660	20.95	9.55	30.50	46.58	-16.08	AVG
0.6018	34.05	9.55	43.60	56.00	-12.40	QP
0.6018	19.00	9.55	28.55	46.00	-17.45	AVG
11.6615	37.37	9.73	47.10	60.00	-12.90	QP
11.6615	24.28	9.73	34.01	50.00	-15.99	AVG

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.

100.0 dBuV



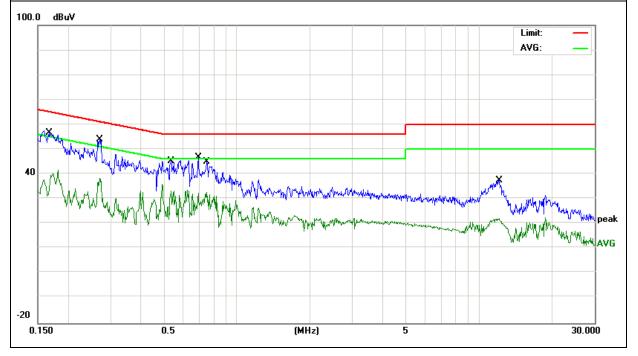


EUT :	Smart Phone	Model Name :	K15 PLUS
Temperature :	20.9 °C	Relative Humidity :	40%
Pressure :	1010hPa	Phase :	Ν
Test Voltage :	DC 9V from Adapter AC 120V/60Hz	Test Mode :	Mode 1

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1665	47.15	9.55	56.70	65.13	-8.43	QP
0.1665	31.03	9.55	40.58	55.13	-14.55	AVG
0.2700	44.47	9.53	54.00	61.12	-7.12	QP
0.2700	28.91	9.53	38.44	51.12	-12.68	AVG
0.5340	35.76	9.54	45.30	56.00	-10.70	QP
0.5340	23.72	9.54	33.26	46.00	-12.74	AVG
0.6896	37.26	9.54	46.80	56.00	-9.20	QP
0.6896	22.94	9.54	32.48	46.00	-13.52	AVG
0.7500	35.36	9.54	44.90	56.00	-11.10	QP
0.7500	23.25	9.54	32.79	46.00	-13.21	AVG
12.1257	27.82	9.72	37.54	60.00	-22.46	QP
12.1257	12.31	9.72	22.03	50.00	-27.97	AVG

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





4.2 RADIATED EMISSION MEASUREMENT

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4.2.1 Radiated Emission	Limits (FCC 15.209)	
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

Note:

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

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

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a) must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.225)

(a)The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters, equal to 124dBuV/m at 3 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters, equal to 90.5dBuV/m at 3 meters.
(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters, equal to 80.5dBuV/m at 3 meters.
(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.



Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

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

4.2.2 TEST PROCEDURE

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- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz And above 1GHz,
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter. 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.
- 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

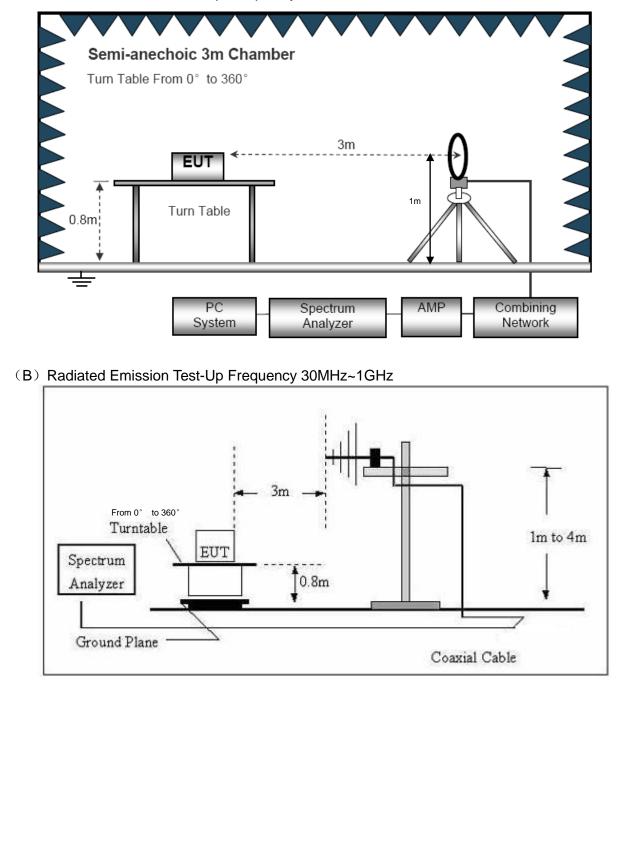
4.2.3 DEVIATION FROM TEST STANDARD

No deviation



4.2.4 TEST SETUP

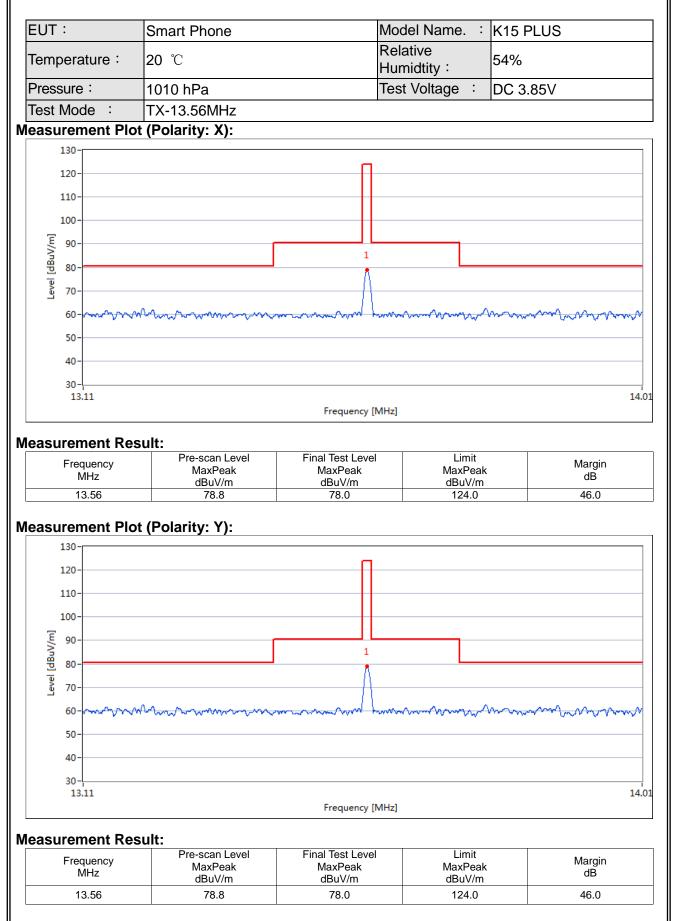
(A) Radiated Emission Test-Up Frequency Below 30MHz



ACCREDITED Certificate #4298.01

4.2.5 TEST RESULTS (BELOW 30MHz)

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dBuV/m	dBuV/m	dBuV/m	dB
77.3	76.8	124.0	47.2
	77.3		



Spurious emissions at 9KHz~13.110MHz & 14.010MHz~30MHz

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Frequency (MHz)	Ant.Pol.	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
0.036	Х	45.59	116.48	-70.89	Avg
0.839	Х	43.36	43.36 109.13 -65.77		Avg
0.711	Х	76.85	6.85 110.57		Avg
1.111	Х	45.32	106.69	-61.37	QP
1.923	Х	42.36	69.54 -27.1		QP
11.625	Х	42.69	69.54	-26.85	QP

Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data. X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.

Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.

Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees



4.2.6 TEST RESULTS (BETWEEN 30 - 1000 MHZ)

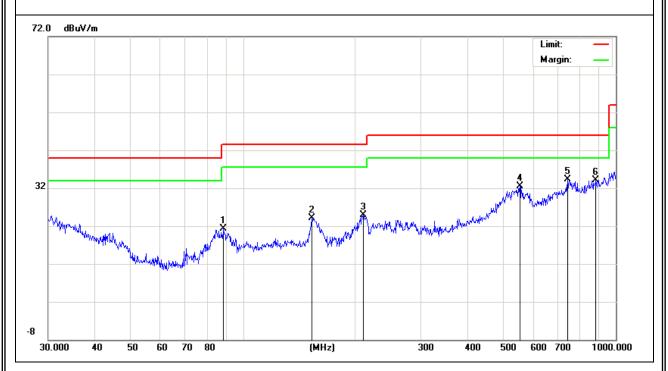
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EUT :	Smart Phone	Model Name :	K15 PLUS
Temperature :	23.2 ℃	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	тх	Polarization :	Horizontal

Freq.	Reading	Factor	Measurement	Limit	Over	Detector	
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector	
88.6524	12.02	9.38	21.4	43.5	-22.1	QP	
152.6639	12.33	11.82	24.15	43.5	-19.35	QP	
210.0482	15	9.93	24.93	43.5	-18.57	QP	
552.8831	10.06	22.54	32.6	46	-13.4	QP	
742.2586	9.34	25.06	34.4	46	-11.6	QP	
884.5027	8.15	25.95	34.1	46	-11.9	QP	

Remark:

Factor = Antenna Factor + Cable Loss.



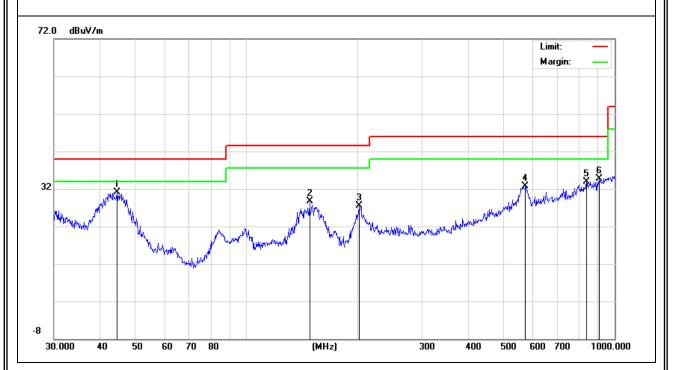


EUT :	Smart Phone	Model Name :	K15 PLUS
Temperature :	23.2 ℃	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	ТХ	Polarization :	Vertical

Freq.	Reading	Factor	Measurement	Limit	Over	Detector
(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector
44.5867	19.52	11.58	31.1	40	-8.9	QP
148.441	16.71	11.99	28.7	43.5	-14.8	QP
202.1005	18.1	9.4	27.5	43.5	-16	QP
572.6144	10.71	21.9	32.61	46	-13.39	QP
839.1816	7.9	26.1	34	46	-12	QP
906.4823	8.29	26.51	34.8	46	-11.2	QP

Remark:

Factor = Antenna Factor + Cable Loss.



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5. BANDWIDTH TEST

5.1 TEST PROCEDURE

The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
 The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied 20 dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value.
 Measured the spectrum width with power higher than 20dB below carrier.

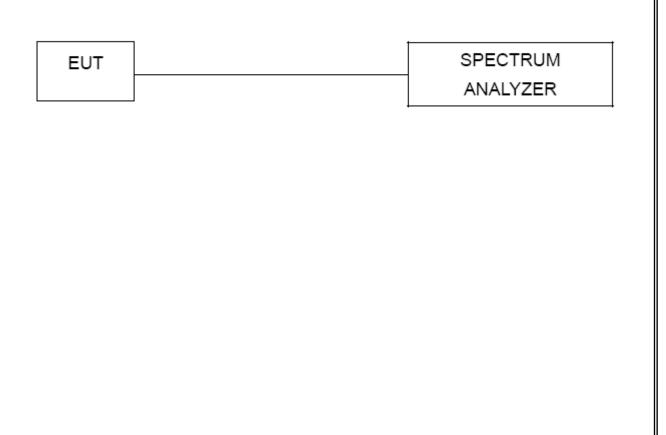
5.2 DEVIATION FROM STANDARD

15.215

(c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated

FCC Part15.225 Operation within the band 13.110 - 14.010MHz

5.3 TEST SETUP





5.4 TEST RESULTS

EUT :	Smart Phone	Model Name :	K15 PLUS
Temperature :	26 ℃	Relative Humidity :	54%
Pressure :	1020 hPa	Test Power :	DC 3.85V
Test Mode :	ТХ		

ACCREDITED Certificate #4298.01

Test Channel	Frequency (MHz)	20 dBc Bandwidth (kHz)
CH01	13.56	0.753

Ref Lev	rel 30	0.00 dBn		BW 300 Hz			
Att		50 dB	3 SWT 6.3 ms 👄 V	BW 1 kHz Mo	de Auto FFT		
∋1Pk Vi∈	w						
				M	M1[1]		20.00 dB
20 dBm-							13.5603470 MH
				- 1 - 1/	ndB		20.00 c 753.000000000 F
10 dBm-				/	Q factor		18019
				Т	- L	1	10019
0 dBm—	_				112		
-10 dBm							
-20 dBm	_						
\sim				-			
-30 dBm	\rightarrow						
-40 dBm	_						
-50 dBm							
-60 dBm							
CF 13.5	6 MH	lz	1 1	691 p	ts		Span 20.0 kHz
Marker							
Туре	Ref	Trc	X-value	Y-value	Function	Fun	ction Result
M1		1	13.560347 MHz	20.00 dBm			753.0 H:
Τ1		1	13.56 MHz	0.86 dBm			20.00 df
Т2		1	13.560753 MHz	-0.46 dBm	Q factor		18020





6. FREQUENCY TOLERANCE

6.1 Requirement:	
Test Requirement:	FCC Part15.225
Test Method:	ANSI C63.10:2013
Requirement:	The frequency tolerance of the carrier signal shall be maintained
	within +/- 0.01% of the operating frequency over a temperature
	variation of –20 degrees to +50 degrees C at normal supply
	voltage, and for a variation in the primary supply voltage from
	85% to 115% of the rated supply voltage at a temperature of 20
	degrees C. For battery operated equipment, the equipment tests
	shall be performed using a new battery.
6.2 Test Procedure	

1. The EUT was placed on a turn table which is 0.8m above ground plane.

2.Set EUT as normal operation

3.Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.

4.Set SPA Max hold. Mark peak.





Test Result

Power Supply	Temperature (℃)	Measured Frequency (MHz)	Frequency Error (MHz)	Result (ppm)	Part 15.225 Limit
	-20	13.56022	0.00022	16.22	+/- 0.01%(100ppm)
DC 3.4V	20	13.56024	0.00024	17.70	+/- 0.01%(100ppm)
	50	13.56022	0.00022	16.22	+/- 0.01%(100ppm)
	-20	13.56026	0.00026	19.17	+/- 0.01%(100ppm)
DC 3.85V	20	13.56022	0.00022	16.22	+/- 0.01%(100ppm)
	50	13.56025	0.00025	18.44	+/- 0.01%(100ppm)
	-20	13.56026	0.00026	19.17	+/- 0.01%(100ppm)
DC 4.2V	20	13.56022	0.00022	16.22	+/- 0.01%(100ppm)
	50	13.56024	0.00024	17.70	+/- 0.01%(100ppm)

END REPORT