

Report No: JYTSZB-R12-2102564

# FCC REPORT

Applicant:	TECNO MOBILE LIMITED
Address of Applicant:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Equipment Under Test (E	EUT)
Product Name:	Mobile Phone
Model No.:	KG5h
Trade mark:	TECNO
FCC ID:	2ADYY-KG5H
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	19 Nov., 2021
Date of Test:	20 Nov., to 08 Dec., 2021
Date of report issued:	13 Dec., 2021
Test Result:	PASS*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



#### Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.



#### Version 2

Version No.	Date	Description
00	13 Dec., 2021	Original

Tested by:

Mike.OU Test Engineer

13 Dec., 2021 Date:

Winner Thang

Reviewed by:

**Project Engineer** 

Date: 13 Dec., 2021

Project No.: JYTSZE2111070



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# 4 Test Summary

Test Items	Section in CFR 47	Test Data	Result
Antenna requirement	15.203 & 15.247 (b)	See Section 6.1	Pass
AC Power Line Conducted Emission	15.207	See Section 6.2	Pass
Duty Cycle	ANSI C63.10-2013	Appendix A – 2.4G Wi-Fi	Pass
Conducted Peak Output Power	15.247 (b)(3)	Appendix A – 2.4G Wi-Fi	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Appendix A – 2.4G Wi-Fi	Pass
Power Spectral Density	15.247 (e)	Appendix A – 2.4G Wi-Fi	Pass
Conducted Band Edge	45.047 (-1)	Appendix A – 2.4G Wi-Fi	Pass
Radiated Band Edge	15.247 (d)	See Section 6.6.2	Pass
Conducted Spurious Emission		Appendix A – 2.4G Wi-Fi	Pass
Radiated Spurious Emission	15.205 & 15.209	See Section 6.7.2	Pass
Remark:			•

1. Pass: The EUT complies with the essential requirements in the standard.

2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method:	ANSI C63.10-2013	
	KDB 558074 D01 15.247 Meas Guidance v05r02	



# 5 General Information

## 5.1 Client Information

Applicant:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Manufacturer:	TECNO MOBILE LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

## 5.2 General Description of E.U.T.

Product Name:	Mobile Phone					
Model No.:	KG5h					
Operation Frequency:	2412MHz~2462MHz: 802.11b/802.11g/802.11n(HT20)					
	2422MHz~2452MHz: 802.11n(HT40)					
Channel numbers:	11: 802.11b/802.11g/802.11(HT20)					
	7: 802.11n(HT40)					
Channel separation:	5MHz					
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)					
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)					
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps					
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps					
Data speed (IEEE 802.11n):	Up to 150Mbps					
Antenna Type:	Internal Antenna					
Antenna gain:	1.2dBi					
Power supply:	Rechargeable Li-ion Polymer Battery DC3.85V, 4900mAh					
AC adapter:	Model: U100TSA					
	Input: AC100-240V, 50/60Hz, 0.3A					
	Output: DC 5.0V, 2.0A					
Test Sample Condition:	The test samples were provided in good working order with no visible defects.					

Operation Frequency each of channel for 802.11b/g/n(HT20)								
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz	
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz	
3	2422MHz	6	2437MHz	9	2452MHz			
Note:								

1. For 802.11n-HT40 mode, the channel number is from 3 to 9;

2. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel. Channel 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest Channel.



## 5.3 Test environment and mode, and test samples plans

Operating Environment:	Operating Environment:				
Temperature:	24.0 °C				
Humidity:	54 % RH	54 % RH			
Atmospheric Pressure:	1010 mbar				
Test mode:					
Transmitting mode	Keep the EUT in con	tinuous transmitting with modulation			
emission was maximized by: hav about all 3 axis (X, Y & Z) and co interconnecting cables, rotating t vertical polarizations. The emissi We have verified the construction the EUT in transmitting operation	Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:				
Mode	Per-scan all kind of data rate, the follow list were the worst case.				
802.11b		Data rate 1Mbps			
802.11g		6Mbps			
802.11n(HT2	0)	6.5Mbps			
802.11n(HT4					
Test Samples Plans:	,				
Samples Number Used for Test Items					
1#	1# Conducted measurements test method				
2# Radiated measurements test method					
5#		EUT constructional details			

## 5.4 Description of Support Units

The EUT has been tested as an independent unit.

## 5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Conducted Emission (150kHz ~ 30MHz) for AAN	3.54 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB

## 5.6 Additions to, deviations, or exclusions from the method No



## 5.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

#### • ISED – CAB identifier.: CN0021

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

#### • CNAS - Registration No.: CNAS L15527

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

#### • A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

## **5.8 Laboratory Location**

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com



## 5.9 Test Instruments list

<b>Radiated Emission:</b>					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
3m SAC	ETS	RFD-100	Q1984	04-14-2021	04-13-2024
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022
<b>Biconical Antenna</b>	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022
EMI Test Software	Tonscend	TS+	Version:3.0.0.1		

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI 3	101189	03-03-2021	03-02-2022	
LISN	Rohde & Schwarz	ENV432	101602	04-06-2021	04-05-2022	
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022	
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022	
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022	
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022	
EMI Test Software	AUDIX	E3	V	ersion: 6.110919	b	

Conducted method:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
Spectrum Analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022
Vector Signal Generator	Keysight	N5182B	MY59101009	10-27-2021	10-26-2022
Analog Signal Generator	Keysight	N5173B	MY59100765	10-27-2021	10-26-2022
Power Detector Box	MWRF-test	MW100-PSB	MW201020JYT	11-19-2021	11-18-2022
Simulated Station	Rohde & Schwarz	CMW270	102335	10-27-2021	10-26-2022
RF Control Box	MWRF-test	MW100-RFCB	MW200927JYT	N/A	N/A
PDU	MWRF-test	XY-G10	N/A	N/A	N/A
DC Power Supply	Keysight	E3642A	MY60296194	11-27-2020	11-26-2023
Temperature Humidity Chamber	Deli	8840	N/A	03-08-2021	03-07-2022
Test Software	MWRF-tes	MTS 8310		Version: 2.0.0.0	



# 6 Test results and Measurement Data

## 6.1 Antenna requirement

Standard requirement:	FCC Part 15 C Section 15.203 /247(b)
responsible party shall be us antenna that uses a unique so that a broken antenna ca electrical connector is prohit 15.247(b) (4) requirement: (4) The conducted output po antennas with directional ga section, if transmitting anten power from the intentional ra	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit n be replaced by the user, but the use of a standard antenna jack or bited. ower limit specified in paragraph (b) of this section is based on the use of ins that do not exceed 6 dBi. Except as shown in paragraph (c) of this nas of directional gain greater than 6 dBi are used, the conducted output adiator shall be reduced below the stated values in paragraphs (b)(1), ion, as appropriate, by the amount in dB that the directional gain of the
E.U.T Antenna:	
The Wi-Fi antenna is an Inter antenna is 1.2 dBi.	nal antenna which cannot replace by end-user, the best case gain of the



## 6.2 Conducted Emission

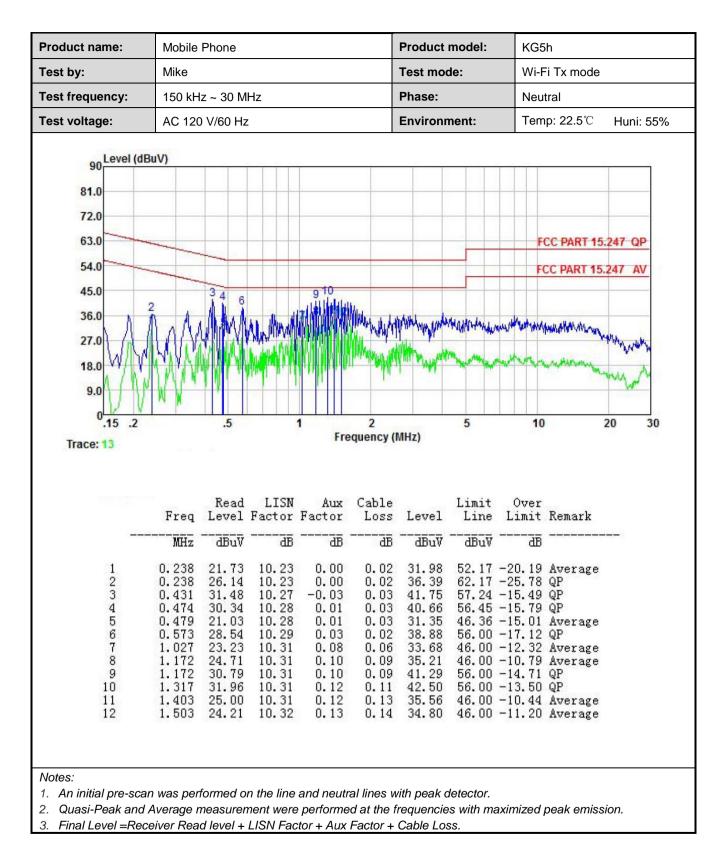
Test Requirement:	FCC Part 15 C Section 15.2	207				
Test Frequency Range:	150 kHz to 30 MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9 kHz, VBW=30 kHz					
Limit:	Frequency range (MHz)	Limit (d	· · ·			
		Quasi-peak	Average			
	0.15-0.5 66 to 56* 56 to 46*					
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarith					
Test procedure	<ol> <li>line impedance stabiliza 50ohm/50uH coupling i</li> <li>The peripheral devices LISN that provides a 50 termination. (Please ref photographs).</li> <li>Both sides of A.C. line a interference. In order to positions of equipment</li> </ol>	brs are connected to the mation network (L.I.S.N.), wight mpedance for the measure are also connected to the Dohm/50uH coupling imperferent to the block diagram of are checked for maximum of find the maximum emission and all of the interface call. 10(latest version) on control of the second seco	hich provides a ing equipment. main power through a dance with 50ohm the test setup and conducted on, the relative bles must be changed			
Test setup:		st	er — AC power			
Test Instruments:	Refer to section 5.9 for deta	ils				
Test mode:	Refer to section 5.3 for deta	ils				
Test results:	Passed					



#### **Measurement Data:**

Product name:	Mobile I	Phone				Product	model:	KG5	h	
Test by:	Mike					Test mod	de:	Wi-F	i Tx mode	
Test frequency:	150 kHz	z ~ 30 Mł	Ηz			Phase:		Line		
Test voltage:	AC 120	V/60 Hz				Environn	nent:	Tem	p: 22.5℃	Huni: 55%
90 Level (d) 81.0 72.0 63.0 54.0 45.0 36.0 27.0 18.0 9.0 0.15 .2 Trace: 15	BuV)	.5		10_12 9_110 10_12 9_110 10_12 10_10 10_10 10000000000	2 equency (I	(III) monthe	5	FI	CC PART 15.	
		Read		Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark	
	Freq MHz 0.190 0.238	Level dBuV 28.76 31.62		-0.14	<u>d</u> B 0.03 0.02	 38.88 41.68				

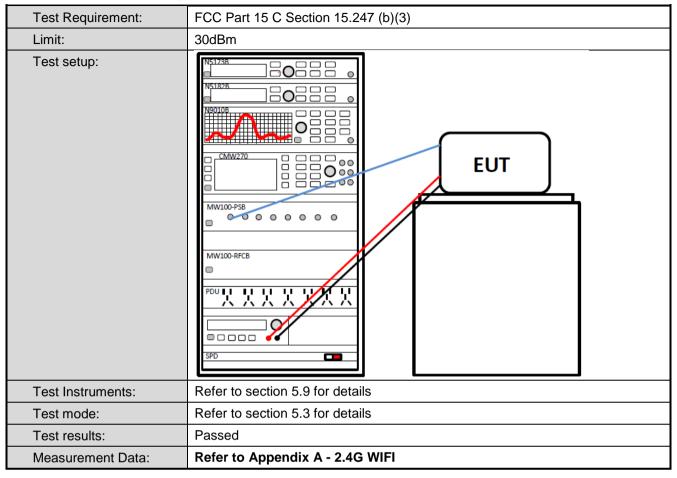




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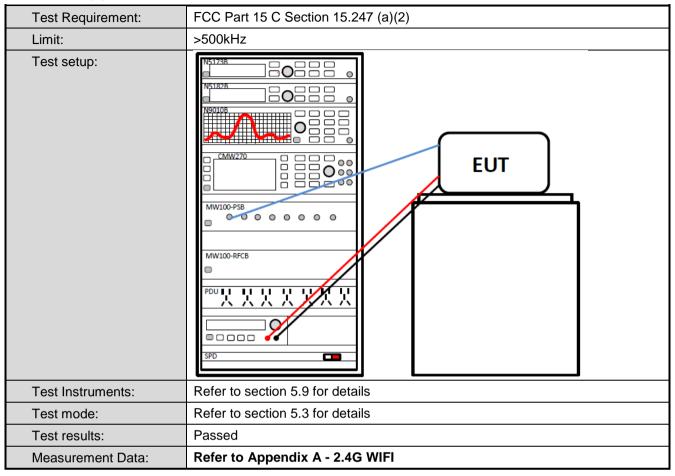


## 6.3 Conducted Output Power



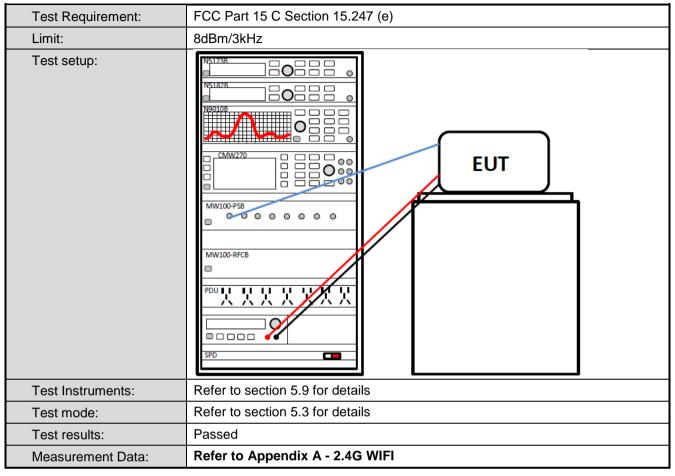


## 6.4 Occupy Bandwidth





## 6.5 Power Spectral Density





## 6.6 Band Edge

## 6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 2.4G WIFI



#### 6.6.2 Radiated Emission Method

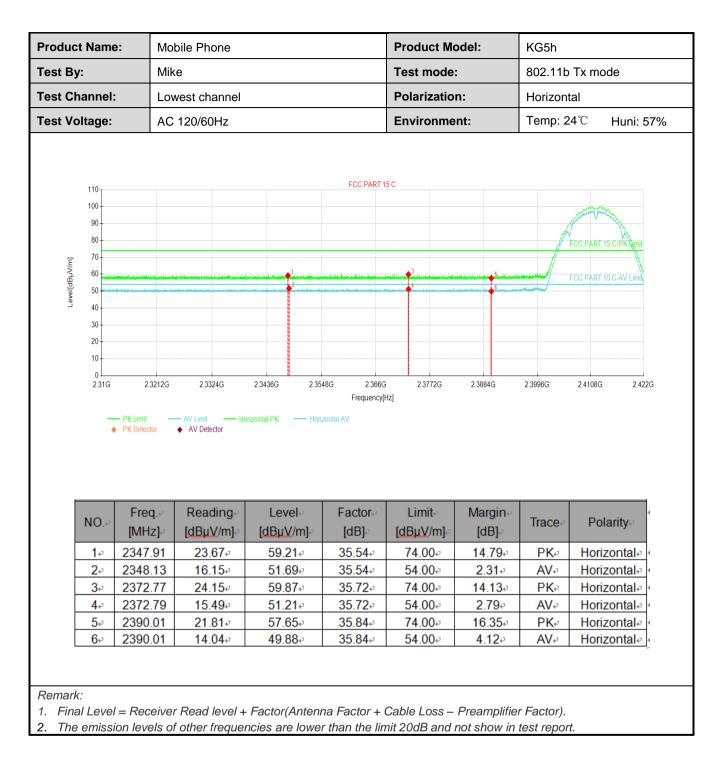
Test Requirement:	FCC Part 15 C Se	ection 15.209	and 15.205		
Test Frequency Range:	2310 MHz to 2390	) MHz and 24	483.5 MHz to 2	500 MHz	
Test Distance:	3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
L inste	Frequency	RMS	<u>1MHz</u> mit (dBuV/m @	3MHz	Average Value Remark
Limit:			54.00		verage Value
	Above 1GH	Z	74.00		Peak Value
Test Procedure:	<ol> <li>the ground at determine the</li> <li>The EUT was antenna, whic tower.</li> <li>The antenna ground to det horizontal and measuremen</li> <li>For each sus and then the and the rota t maximum rea</li> <li>The test-rece Specified Bar</li> <li>If the emission limit specified the EUT wou 10dB margin</li> </ol>	a 3 meter ca e position of s set 3 meter ch was mour height is var cermine the n d vertical pol t. pected emiss antenna was table was tur ading. viver system dwidth with on level of the d, then testing ld be reporte would be re-	the highest radi s away from the need on the top ied from one m naximum value arizations of the sion, the EUT w s tuned to heigh ned from 0 deg was set to Peal Maximum Hold e EUT in peak r g could be stop ed. Otherwise th	ble was rotate iation. e interference of a variable- eter to four m of the field st e antenna are vas arranged its from 1 me irees to 360 d k Detect Fund Mode. node was 100 ped and the p ine emissions one using pea	ed 360 degrees to e-receiving height antenna neters above the trength. Both e set to make the to its worst case ter to 4 meters legrees to find the ction and dB lower than the peak values of that did not have ak, quasi-peak or
Test setup:		AE EUT (Turntable)	Horn 3m Ground Reference Plane Receiver	Antenna Tow	ver
Test Instruments:	Refer to section 5	.9 for details			
Test mode:	Refer to section 5	.3 for details			
Test results:	Passed				



#### 802.11b mode:

	ne:	INIOD	ile Phone			Product	Model:	KG5h	
est By:		Mike	)			Test mod	de:	802.11b	Tx mode
est Channe	l:	Lowe	est channel			Polarizat	ion:	Vertical	
est Voltage	:	AC 1	120/60Hz			Environn	nent:	Temp: 24	4℃ Huni: 579
110 100 90 80 70 60					FCC PART 1	iC			CC PART 15 C-PK tumt
	PK Li	2.3212G imit —	2 3324G AV Limit Ve AV Detector	23436G 2.354 ertical PK — Vertical	Frequency[H	2.3772G Z]	2.3884G	2.3996G	2.4108G 2.422G
40 30 20 10	→ PKLi ◆ PKD	imit —	— AV Limit — Ve		Frequency[H		2.3884G 2.3884G Margin,⊮ [dB],⊮	2 3996G	2.4108G 2.422G
	PK Li PK Da	imit	AV Limit Ve AV Detector	ertical PK — Vertical	Frequency(H AV Factor+/	z] Limit-	Margin∉		
40 30 20 10 0 2310	<ul> <li>PK Li</li> <li>PK Di</li> <li>Fr</li> <li>[M</li> <li>234</li> </ul>	imit etector req.↔ 1Hz]↔	AV Limit Ve AV Detector Ve	ertical PK Vertical Level↓ [dBµV/m].□	Frequency(H AV Factor₊↓ [dB]₊⊅	Limit⊮ [dBµV/m]⊬	Margin∉ [dB]₽	Trace	Polarity⇔
40 30 20 10 2310 2310	<ul> <li>PK Lin</li> <li>PK Di</li> <li>PK Di</li> <li>PK Di</li> </ul>	req.4 1Hz]	AV Limit Ve AV Detector Ve	ertical PK — Vertical Level↓ [dBµV/m]→ 51.12↓	Frequency(H AV Factor⊷ [dB]∞ 35.51⊷	Limit-/ [dBµV/m]-/ 54.004	Margin⊮ [dB]⊮ 2.88₽	Trace.∘ AV.∘	Polarity. Vertical.
40 30 20 10 0 2310 2310 	<ul> <li>PK Li</li> <li>PK Di</li> <li></li></ul>	req 1Hz] 44.23 44.80	AV Limit Ve AV Detector Ve Reading/ [dBµV/m]/ 15.61/ 23.58/	ertical PK — Vertical Level ← [dBµV/m]→ 51.12 ← 59.10 ←	Frequency(H AV Factor⊷ [dB] 35.51+- 35.52+-	z] Limit⊸ [dBµV/m]⊶ 54.00.∞ 74.00.∞	Margin.⊎ [dB].⊎ 2.88.₽ 14.90.₽	Trace. AV. PK.	Polarity Vertical Vertical
NO 1- 2- 10 0 2- 2- 2- 2- 2- - - - - - - - - - - - - -	<ul> <li>PK Li</li> <li>PK Di</li> <li></li></ul>	req.↓ 1Hz]→ 44.23 44.80 65.10	AV Limit Ve ♦ AV Detector Ve <b>Reading</b> -v [dBµV/m]-v 15.61-v 23.58+v 23.48+v	Errical PK Vertical Level ↓ [dBµV/m]→ 51.12↓ 59.10↓ 59.14↓	Frequency(H AV [dB]= 35.51= 35.52= 35.66=	Limit- [dBµV/m]↔ 54.00↔ 74.00↔ 74.00↔	Margin.∉ [dB].₀ 2.88.₀ 14.90.⊧ 14.86.₀	Trace.₀ AV.₀ PK.₀ PK.₀	Polarity Vertical Vertical Vertical







		bile Phone			Product I	Model:	KG5h		
est By:	Mi	ke			Test mod	le:	802.11b	Tx mode	
est Channe	l: Hię	hest channel			Polarizati	ion:	Vertical		
est Voltage	: AC	120/60Hz			Environm	nent:	Temp: 2	4℃ Huni: 5	57%
110 100 90 80 70 60			and the second sec	FCC PART 1	5 C	1		FCC PART 15 C-PK Limit	
	3 2.4568G PK Limit PK Detector	2.4616G AV Limit V ♦ AV Detector	24664G 2.471 ertical PK — Vertical	Frequency[I	2.4808G [z]	2.4856G	2.4904G	24952G 2.50	G
40 30 20 10	PK Limit PK Detector	— AV Limit — V		Frequency[I		2.4856G Margin⊷ [dB]₊2	2.4904G Trace.∞	24952G 2.50	G
	PK Limit ◆ PK Detector	AV Limit V AV Detector V	ertical PK — Vertical	Frequency[	Iz]	Margin⇔			G
40 30 20 10 2 4524 NO.	PK Limit PK Detector       Freq.el       [MHz]el	AV Limit V ◆ AV Detector V Reading [dBµV/m]=	ertical PK — Vertical Level.↓ [dBµV/m].₂	Frequency[ AV Factor [dB]	Limit√ [dBµV/m]≁	Margin⊮ [dB]₀	Trace	Polarity⇔	G
40 30 20 10 0 2.4520 NO.4	<ul> <li>PK Limit</li> <li>PK Detector</li> <li>Freq.₄</li> <li>[MHz]₂</li> <li>2483.50</li> </ul>	AV Limit V AV Detector V Reading [dBµV/m] 22.03+3	ertical PK — Vertical Level⊷ [dBµV/m]↔ 57.75↔	Frequency(I AV Factor.e [dB].a 35.72.e	Limit-/ [dBµV/m]+/ 74.00+/	Margin⊷ [dB]₀ 16.25⊷	Trace.₂ PK₂	Polarity <i>₀</i> Vertical <i>₀</i>	G
40 30 20 10 2.452 452 NO.+ 1+ <sup>2</sup> 2+ <sup>2</sup>	<ul> <li>PK Limit</li> <li>PK Detector</li> <li>Freq.e<sup>3</sup></li> <li>[MHz]-<sup>3</sup></li> <li>2483.50</li> <li>2483.50</li> </ul>	AV Limit V	Level            [dBμV/m]         57.75           49.94         2	Frequency[ AV Factor.e [dB].e 35.72.e 35.72.e	Limit-/ [dBµV/m]-/ 74.00+/ 54.00+/	Margin⊮ [dB]⊮ 16.25⊷ 4.06⊷	Trace PK AV	Polarity₀ Vertical₀ Vertical₀	G
NO.+ 1+ <sup>3</sup> 20 10 2.4524 NO.+ 1+ <sup>3</sup> 2+ <sup>3</sup> 3+ <sup>3</sup>	<ul> <li>PK Limit</li> <li>PK Detector</li> <li>Freq.et</li> <li>[MHz]-2</li> <li>2483.50</li> <li>2483.50</li> <li>2487.35</li> </ul>	AV Limit V ♦ AV Detector V <b>Reading</b> [dBµV/m]= 22.03 14.22 15.41 *	ertical PK Vertical Level.↓ [dBµV/m].↓ 57.75.↓ 49.94.↓ 51.12.↓	Frequency[ AV Factor [dB] 35.72 35.72 35.71 35.71	Limit. [dBµV/m]- 74.00. 54.00. 54.00.	Margin.↓ [dB].↓ 16.25+↓ 4.06+↓ 2.88+↓	Trace₀ PK₀ AV₀ AV₀	Polarity₀ Vertical₀ Vertical₀ Vertical₀	G



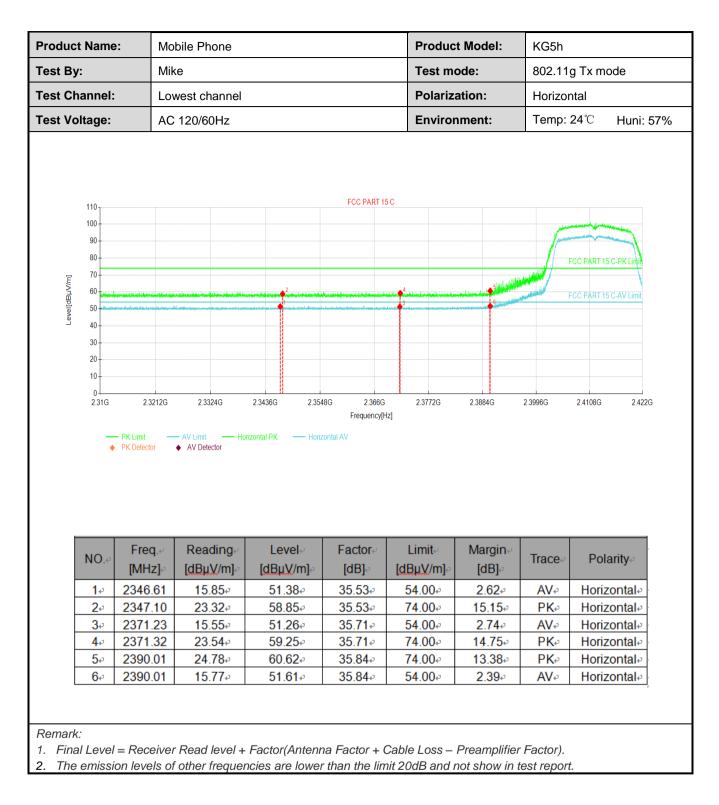
			ile Phone			Product	wodel:	KG5h		
Fest By:		Mike	9			Test mod	le:	802.11b	Tx moc	le
Fest Chann	nel:	High	nest channel			Polarizat	ion:	Horizont	tal	
Fest Voltag	ge:	AC	120/60Hz			Environn	nent:	Temp: 2	24℃	Huni: 57%
110 100 90 80 Euro 10 10 10 10 10 10 10 10 10 10 10 10 10		~~~			FCC PART 15	5C			FCC PART 15	C-PK Limit
40 30 20 10	) )		2.4616G — AV Limit — Ho ♦ AV Detector	2.4664G 2.471 prizontal PK — Horiz	Frequency[H	2.4808G [z]	2.4856G	2.4904G	2.4952G	256
40 30 20 10	452G	.imit —	— AV Limit —— Ho		Frequency[H		2.4856G Margin.∉ [dB].₀	2.4904G		256 arity⊷
40 30 20 10 0 2.4	452G → PKL → PKL	imit — Detector	AV Limit Ho AV Detector Ho Reading	orizontal PK — Horiz Level&	Frequency(H zontal AV	Limit.	Margin∜		Pola	
40 30 20 10 0 2.4		imit Detector Freq.≁ MHz]₽	AV Limit Ho AV Detector Ho Reading [dBµV/m]↔	orizontal PK — Horiz Level₊ [dBµV/m].∘	Frequency(H zontal AV Factor⊷ [dB]⊷	Limit⊍ [dBµV/m]∂	Margin.⊎ [dB]₽	Trace⊧	Pola	arity₀
40 30 20 10 2.4 NC		.imit Detector Freq.₊↓ MHz]↓ 83.50	AV Limit He AV Detector He Reading [dBµV/m] 22.49₄ <sup>3</sup>	Level [dBµV/m] 58.21.2	Frequency(H zontal AV Factor⊷ [dB]∘ 35.72↔	Limit-/ [dBµV/m]↔ 74.00↔	Margin.⊮ [dB]⊮ 15.79₊	Trace.₀ PK₀	Pola Horiz Horiz	arity.₀ ontal.₀_•
40 30 20 10 0 2.4 NC 1 2 3		-imit Delector MHZ].₀ 83.50 83.50	AV Limit He AV Detector He Reading [dBµV/m] 22.49 14.64 4	Level [dBµV/m].₂ 58.21.е 50.36.е	Frequency[H contal AV Factor [dB] 35.72 35.72	Limit↓ [dBµV/m]↓ 74.00↓ 54.00↓	Margin.∉ [dB].∉ 15.79.∉ 3.64.∉	Trace+ PK+ AV+	Pola Horiz Horiz Horiz	arity⊮ ontal⊮ ontal⊮
40 30 20 10 0 2.4 NC 1 2 3		-req MHz]. 83.50 83.50 87.92	AV Limit → Ho AV Detector → Ho (dBµV/m) 22.49↔ 14.64↔ 24.07↔	Level⊷ [dBµV/m]∘ 58.21.∘ 50.36.∘ 59.78.∘	Frequency[H zontal AV [dB]= 35.72= 35.72= 35.71=	Limit- [dBµV/m]↔ 74.00↔ 54.00↔	Margin.∉ [dB]. 15.79€ 3.64€ 14.22€	Trace≠ PK≠ AV≠ PK≠	Pola Horiz Horiz Horiz Horiz	arity ontal ontal ontal



#### 802.11g mode:

	e: Mo	bile Phone			Product	Model:	KG5h	
est By:	Mil	ke			Test mo	de:	802.11g	g Tx mode
est Channe	: Lo	west channel			Polariza	tion:	Vertical	
est Voltage	AC	120/60Hz			Environ	ment:	Temp: 2	24℃ Huni: 5
110 100 90 80 70 60 50	دې لوغنې و د د د د د د د د د د د د د د د د د د			FCC PART 15	C			FCC PART 15 C-PK Limit
40 30 20 10 0 2.31G	2 3212G PK Limit PK Detector	2.3324G — AV Limit — Ve AV Detector	2.3436G 2.354 ertical PK — Vertical.	Frequency[Hz	2.3772G 2]	2.3884G	2.3996G	2.4108G 2.422G
40 30 20 10 0 2.31G	PK Limit - PK Detector	— AV Limit —— Ve		Frequency[Hz		2.3884G Margin.+/ [dB]-/	2.3996G	2.4108G 2.422G
	PK Limit PK Detector	- AV Limit Ve ◆ AV Detector	ertical PK — Vertical.	Frequency[H; AV Factor⊷	:) Limit⊮	Margin		
40 30 20 10 0 2310	PK Limit → PK Detector Freq [MHz]	AV Limit Ve ♦ AV Detector Reading V [dBµV/m] V	rtical PK — Vertical Level₊ [dBµV/m]₊₂	Frequency[H2 AV Factor⊷ [dB]₀	Limit⊬ [dBµV/m]⊬	Margin⊮ [dB]₀	Trace	Polarity₀
40 30 20 10 0 2.31G NO	PK Limit → PK Detector Freq [MHz] 2343.88	AV Limit Ve AV Detector Ve Reading ↓ [dBµV/m] ↓ 23.94↓	Level [dBµV/m] 59.45₊	Frequency[Hz AV Factor⊷ [dB]₀ 35.51₊₃	Limit⊬ [dBµV/m]↔ 74.00↔	Margin⊮ [dB]⊭ 14.55₽	Trace.₀ PK.₀	Polarity. Vertical.
10 20 10 0 231G NO1 1+2 2+2	PK Limit PK Detector Freq	- AV Limit Ve	Level [dBµV/m] 59.45 51.11 €	Frequency[Hz AV Factor⊷ [dB]⊷ 35.51₊3 35.51₊3	Limit. [dBµV/m]. 74.00. 54.00.	Margin.⊮ [dB]⊍ 14.55€ 2.8943	Trace. PK. AV.	Polarity₀ Vertical₀ Vertical₀
NO 10- 0- 2316 NO 1+- 2+- 3+-	PK Limit PK Detector [MHz]= 2343.88 2344.17 2371.72	AV Limit → Ve AV Detector Reading.e [dBµV/m].e 23.94.e 15.60.e 23.54.e	Level↔ [dBµV/m]↔ 59.45↔ 51.11↔ 59.25↔	Frequency[Hz AV [dB]-9 35.51.43 35.51.43 35.71.43	Limit [dBµV/m] 74.004 54.004 74.004	Margin.⊮ [dB]₀ 14.55₽ 2.89₽ 14.75₽	Trace↔ PK↔ AV↔ PK↔	Polarity Vertical Vertical Vertical





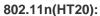


		bile Phone			Product	Model:	KG5h		
est By:	Mi	ke			Test mod	de:	802.1	1g Tx mode	
est Channel	: Hig	ghest channel			Polarizat	ion:	Vertica	al	
est Voltage:	AC	120/60Hz			Environm	nent:	Temp:	: 24°C Huni:	57%
110 100 90 80 70 70 60				FCC PART 15		a data da se da da se	2 6. 	FCC PART 15 C-PK Limit	
	2.4568G PK Limit - PK Detector	2.4616G — AV Limit — Ve AV Detector	2.4664G 2.471 Prical PK — Vertical	Frequency[H	2.4808G Z]	2.4856G	2.4904G	2.4952G 2.5	5G
40 30 20 10 0	PK Limit -	— AV Limit —— Ve		Frequency[H		2.4856G Margin.⊷ [dB].∘	2.4904G	2.4952G 2.5	56
	PK Limit → PK Detector →	AV Limit ve ♦ AV Detector	ertical PK Vertical	Frequency(H AV	z] Limit~	Margin∉			56
10 20 10 2 4520	PK Limit → PK Detector Freq.+2 [MHz],23	AV Limit Ve ♦ AV Detector Ve Reading Vertication (Construction of the second	ertical PK — Vertical Level+ [dBµV/m]+3	Frequency(H AV Factor+ [dB]+	z] Limit⊮ [dBµV/m]⊬	Margin⊮ [dB]₽	Trace	Polarity₀	5G
NO.	Freq.+ [MHz],- 2483.50	AV Limit → Ve AV Detector Reading 4 [dBµV/m] 4 22.94 4	Level↔ [dBµV/m]↔ 58.66↔	Frequency(H AV Factor↓ [dB]↓ 35.72↓	Limit⊸ [dBµV/m]⊷ 74.00₊	Margin.∉ [dB].∘ 15.34⊷	Trace.₀ PK₀	Polarity. Vertical.	5G
NO.*	PK Limit           PK Detector           Freq.≠           [MHz]           2483.50           2483.50	AV Limit Ve AV Detector Reading [dBµV/m] 22.94 14.48 •	Eevel [dBµV/m], 58.66+ 50.20+	Frequency(H AV Factor [dB] 35.72 35.72	Limit-/ [dBµV/m]-⁄ 74.00⁄ 54.00⁄	Margin.∉ [dB].∉ 15.34.∉ 3.80.∉	Trace.₀ PK.₀ AV.₀	Polarity⊮ Vertical⊮ Vertical⊮	5G
NO.	<ul> <li>PK Limit</li> <li>PK Detector</li> <li>Freq.₄</li> <li>[MHz]₄<sup>3</sup></li> <li>2483.50</li> <li>2483.50</li> <li>2488.95</li> </ul>	AV Limit Ve ♦ AV Detector Preading (*) [dBµV/m](*) 22.94(*) 14.48(*) 24.89(*)	Level↔ [dBµV/m]↔ 58.66↔ 50.20↔ 60.60↔	Frequency(H AV [dB]-2 35.72.2 35.72.2 35.71.2	Limit-/ [dBµV/m]≁ 74.00.↔ 54.00.↔	Margin.∉ [dB].∉ 15.34.∉ 3.80.∉ 13.40.€	Trace. PK. AV. PK.	Polarity.∘ Vertical.∘ Vertical.∘ Vertical.∘	5G



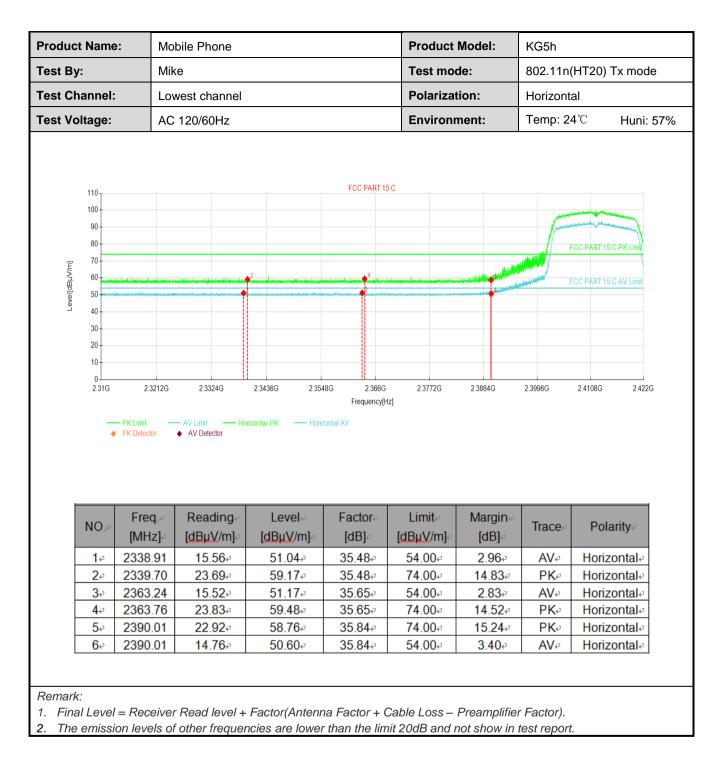
			ile Phone			Produc	t woder:	KG5h		
est By:		Mike	•			Test m	ode:	802.11	g Tx mode	
est Channe	el:	High	est channel			Polariz	ation:	Horizor	ntal	
est Voltage	):	AC 1	20/60Hz			Enviror	nment:	Temp: :	24℃ Hur	ni: 57%
110- 100- 90- 80- 70- 2, 60-					FCC PART 15				FCC PART 15 C-PK Lim	
E 10 B 0 B 0 B 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C	2G 2 PK Limit PK Dete		2.4616G • AV Limit Ho • AV Detector	2.4664G 2.471 prizontal PK — Horiz	2G 2.476G Frequency(H zontal AV	2.4808G Z]	2.4856G	2.4904G	2.4952G 2	2.56
40	PK Limit PK Dete	ctor ◀	- AV Limit Ho		Frequency[H		2.4856G Margin 4 [dB]-2	2.4904G	2.4952G 2 Polarity	2.56
40 - 30 - 20 - 10 - 2.452	PK Limit PK Dete	ctor •q.↔ {z]↔	AV Limit — Ho AV Detector	orizontal PK — Horiz	Frequency(H zontal AV	z] Limit~	Margine			
40 30 20 10 0 2.452 NO.	PK Limit PK Dete	tor •q.⊷ •[z]⊷ 3.50	AV Limit Ho AV Detector Ho Reading.√ [dBµV/m].∞	orizontal PK — Hori2 Level.↓ [dBµV/m].∂	Frequency(H zontal AV Factor₊ [dB]₊	z] Limit.∘ [dBµV/m]⊷	Margin.∉ [dB]-∂	Trace+	Polarity₀	
40 30 20 10 2.452 NO.	<ul> <li>PK Limit</li> <li>PK Dete</li> <li>Fre</li> <li>[MH</li> <li>2483</li> </ul>	eq  z]  z]  3.50  3.50	AV Limit → Ho AV Detector Reading. [dBµV/m]. 25.22.4 <sup>3</sup>	Level⊷ [dBµV/m]↔ 60.94↔	Frequency(H zontal AV Factor [dB] 35.72+-	Limit [dBµV/m]↔ 74.00↔	Margin.∉ [dB]⊴ 13.06⊷	Trace≓ PK⊷	Polarity⊮ Horizontal	а ·
40 30 20 10 2.452 NO. 1+ <sup>2</sup> 2. <sup>45</sup>	<ul> <li>PK Limit</li> <li>PK Dete</li> <li>PK Dete</li> <li>PK Dete</li> <li>PK Dete</li> </ul>	eq.e iz]₽ 3.50 7.72	AV Limit → Ho AV Detector [dBµV/m]-2 25.22-2 16.59-3	Level [dBµV/m] 60.94 52.31	Frequency(H zontal AV Factor+/ [dB]-/ 35.72.4 35.72.4	Limit-/ [dBµV/m]-/ 74.00/ 54.00/	Margin.⊌ [dB]- 13.06₽ 1.69₽	Trace.₀ PK.₀ AV.₀	Polarity∞ Horizontal Horizontal	
NO. 140 20- 10- 0- 2.452 NO. 14- <sup>3</sup> 2.452	<ul> <li>PK Limit</li> <li>PK Dete</li> <li>PK Dete</li> <li>PK 2483</li> <li>2483</li> <li>2483</li> </ul>	eq.↔ tz]↔ 3.50 3.50 7.72 7.77	AV Limit Ho AV Detector Reading.ev [dBµV/m].ev 25.22.ev 16.59.ev 15.83.ev	Level. [dBµV/m]. 60.94. 52.31. 51.54.	Frequency(H zontal AV [dB] 35.72 35.72 35.71	z] Limit-/ [dBµV/m]-/ 74.00.e/ 54.00.e/ 54.00.e/	Margin.∉ [dB]- 13.06€ 1.69€ 2.46€	Trace. PK. AV. AV.	Polarity₀ Horizontal₀ Horizontal₀ Horizontal₀	





oduct Name:		NICON	Mobile Phone Pr			Product N	lodel:	KG5h		
st By:		Mike				Test mod	e:	802.11n(	(HT20) <sup>-</sup>	Tx mode
st Chann	nel:	Lowe	st channel			Polarizati	on:	Vertical       Temp: 24°C       Huni: 5		
st Voltag	je:	AC 1	20/60Hz			Environm	ent:			
110 - 100 - 90 - 80 - 70 - 71 - 60 - 10 - 50 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1					FCC PART 15		a waa alaa ahaa ahaa ahaa ahaa ahaa ahaa		FCC PART 15 (	
<sup>™</sup> 40- 30- 20- 10- 2.3	31G — PK		2.3324G - AV Limit → Ve AV Detector	2.3436G 2.354 ertical PK — Vertical.	Frequency[Hz	2.3772G 2]	2.3884G	2.3996G	2.4108G	2.422G
40 - 30 - 20 - 10 - 0 -	→ PK	CLimit —	– AV Limit – Ve		Frequency[Hz		2.3884G 2.3884G Margin.e <sup>J</sup> [dB]. <sup>J</sup>	2.3996G	2.4108G	_
40- 30- 20- 10- 01 2.3	] РК РК О.⊷	Climit C Detector	AV Limit Ve AV Detector Ve Reading	ertical PK Vertical . Level+	Frequency[Hz AV Factor⊷	:) Limit⊮	Margin∉			ırity₀
40- 30- 20- 10- 0- 23	31G → PK ◆ PK	Climit C Detector Freq.∉ [MHz]₽	AV Limit Ve ♦ AV Detector Reading	ertical PK — Vertical Level₊ [dBµV/m]₊	Frequency[Hz AV Factor [dB]	Limit⊮ [dBµV/m]⊬	Margin∉ [dB]₽	Trace	Pola	ırity₀ ical₀
10- 30- 20- 10- 0- 23 NO		Freq. [MHz] 342.21	AV Limit Ve AV Detector Reading [dBµV/m].9 24.24.9	Level↔ [dBµV/m]↔ 59.74↔	Frequency[Hz AV Factor [dB] 35.50+3	Limit⊌ [dBµV/m]⊷ 74.00₊	Margin.∉ [dB].∘ 14.26⊷	Trace.∘ PK.∘	Pola Verti Verti	ırity₀ ical₀
NC	<ul> <li>→ PK</li> <l< td=""><td>Freq [MHz] 342.21 342.77</td><td>AV Limit Ve ♦ AV Detector Reading ( [dBµV/m] ( 24.24 ( 15.56 ( )</td><td>Eevel [dBµV/m] 59.74↔ 51.06↔</td><td>Frequency[Hz AV Factor⊷ [dB]⊷ 35.50₄2 35.50₄2</td><td>Limit-/ [dBµV/m]-/ 74.00+/ 54.00+/</td><td>Margin.∉ [dB].∉ 14.26⊷ 2.94.∉</td><td>Trace.∂ PK.∂ AV.∂</td><td>Pola Verti Verti</td><td>irity⊭ ical∉ ical∉</td></l<></ul>	Freq [MHz] 342.21 342.77	AV Limit Ve ♦ AV Detector Reading ( [dBµV/m] ( 24.24 ( 15.56 ( )	Eevel [dBµV/m] 59.74↔ 51.06↔	Frequency[Hz AV Factor⊷ [dB]⊷ 35.50₄2 35.50₄2	Limit-/ [dBµV/m]-/ 74.00+/ 54.00+/	Margin.∉ [dB].∉ 14.26⊷ 2.94.∉	Trace.∂ PK.∂ AV.∂	Pola Verti Verti	irity⊭ ical∉ ical∉
10- 0- 23 NO 14- 0- 23 NO 14- 23 3- 14- 23 14- 23 14- 24- 3- 24- 3- 24- 3- 24- 24- 24- 24- 24- 25- 25- 25- 25- 25- 25- 25- 25	).↔ PK → PK → PK → PK → 2 ↔ 2 ↔ 2 ↔ 2 ↔ 2 ↔ 2 ↔ 2	Freq.e [MHz] 342.21 342.77 359.49	AV Limit Ve AV Detector Ve AV Detector [dBµV/m]₽ 24.24₽ 15.56₽ 23.87₽	Level↔ [dBµV/m]↔ 59.74↔ 51.06↔ 59.49↔	Frequency[Hz AV [dB]- 35.50.4 35.50.4 35.62.4 35.62.4	Limit [dBµV/m] 74.00. 54.00. 74.00.	Margin.∉ [dB].∉ 14.26.€ 2.94.€ 14.51.€	Trace PKe AVe PKe	Pola Verti Verti Verti	rrity.₀ ical.₀ ical.₀ ical.₀

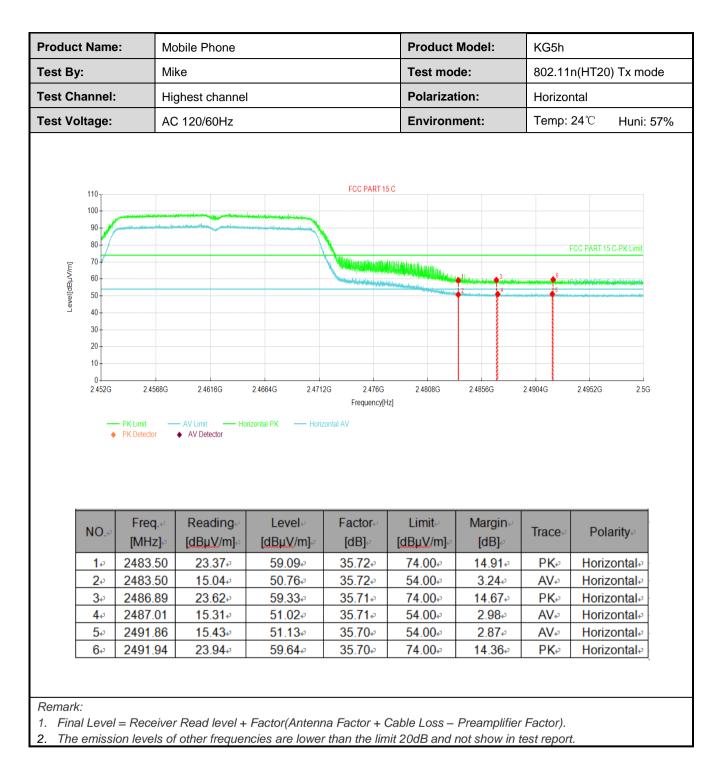






est By:		Mobile Phone				Product Model:		KG5h		
est by.	Ν	like			Test mo	ode:	802.11	In(HT20	) Tx mode	
est Channe	el: ⊦	lighest channe	l		Polariza	ation:	Vertica	Vertical		
est Voltage	e: A	C 120/60Hz			Environ	Environment:		Temp: 24°C Huni: 57		
				FCC PART 1:		a Lanach Valler an Start	5 January 10	FCC PART 15	C-PK Limit	
50- 40- 30- 20- 10- 0- 2.45	2G 2.4568C — PK Limit • PK Detector		2.4664G 2.471 erfical PK — Vertical	Frequency[H	2.4808G iz]	2.4856G	2.4904G	2.4952G	2.56	
40 - 30 - 20 - 10 - 0 -	PK Limit PK Detector	— AV Limit — V		Frequency[H		2.4856G Margin.∉ [dB].₽	2.4904G		2.5G	
40 30 20 10 0 2.45	PK Limit PK Detector Freq.+ [MHz]	AV Limit Va ◆ AV Detector Va Reading Jack (dBµV/m] Jack (dBµV/m)	ertical PK Vertical	Frequency(F	ltz] Limit⊷	Margin∉		Pola		
40 30 20 10 0 2.45	<ul> <li>PK Limit</li> <li>PK Detector</li> <li>Freq</li> <li>[MHz]</li> <li>2483.50</li> </ul>	AV Limit V AV Detector V Reading [dBµV/m] 21.54.2	ertical PK — Vertical Level⊷ [dBµV/m].∂	Frequency[F AV Factor⊌ [dB]-2	Limit⊬ [dBµV/m]⊬	Margin.∉ [dB]∘	Trace	Pola	۲ity₽	
40 30 20 10 0 2.45 NO 1 ←	<ul> <li>PK Limit</li> <li>PK Detector</li> <li>Freq.</li> <li>[MHz]</li> <li>2483.50</li> <li>2483.50</li> </ul>	AV Limit V AV Detector V Reading [dBµV/m]= 21.54e 14.46e	Level [dBµV/m] 57.26+ <sup>3</sup>	Frequency(F AV Factor [dB] 35.72+	Limit.₀ [dBµV/m]₀ 74.00.₀	Margin.∉ [dB]⊮ 16.74⊷	Trace.₀ PK₀	Pola Vert Vert	ırity∉ ical∉_	
10- 20- 10- 2.45	<ul> <li>PK Limit</li> <li>PK Detector</li> <li>Freq.</li> <li>[MHz]</li> <li>2483.50</li> <li>2487.58</li> </ul>	AV Limit Vi AV Detector Reading Vi [dBµV/m] Vi 21.54.0 14.46.0 24.44.0	Eevel↔ [dBµV/m]↔ 57.26↔ 50.18↔	Frequency(F AV Factor [dB]- <sup>3</sup> 35.72+ <sup>3</sup> 35.72+ <sup>3</sup>	Limit-/ [dBµV/m]-/ 74.00/ 54.00/	Margin.⊍ [dB].⊍ 16.74.0 3.82.0	Trace.₀ PK.₀ AV.₀	Pola Vert Vert	ırity⊋ ical₽ ical₽	
10- 20- 10- 0- 2.45 NO 1.+ 2.45	<ul> <li>PK Limit</li> <li>PK Detector</li> <li>Freq. 4</li> <li>[MHz]</li> <li>2483.50</li> <li>2487.58</li> <li>2487.73</li> </ul>	AV Limit Va AV Detector Va AV Detector [dBµV/m]= 21.54.e 14.46.e 24.44.e 15.08.e	Evel [dBµV/m] 57.26+ 50.18+ 60.15+	Frequency(F AV [dB]-2 35.72+2 35.72+3 35.71+3	Limit- [dBµV/m]- 74.00 54.00 74.00	Margin.↓ [dB]↓ 16.74↓ 3.82↓ 13.85↓	Trace. PK. AV. PK.	Pola Vert Vert Vert	ırity₀ ical₀ ical₀	



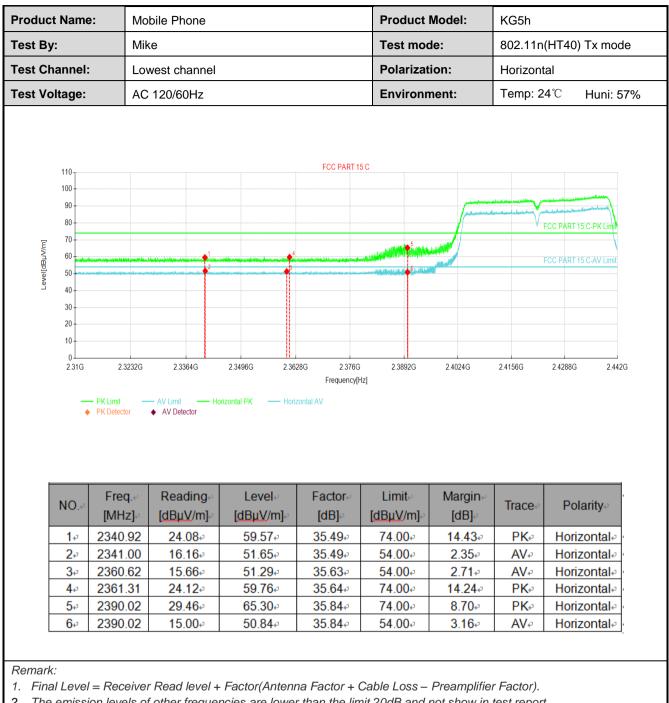




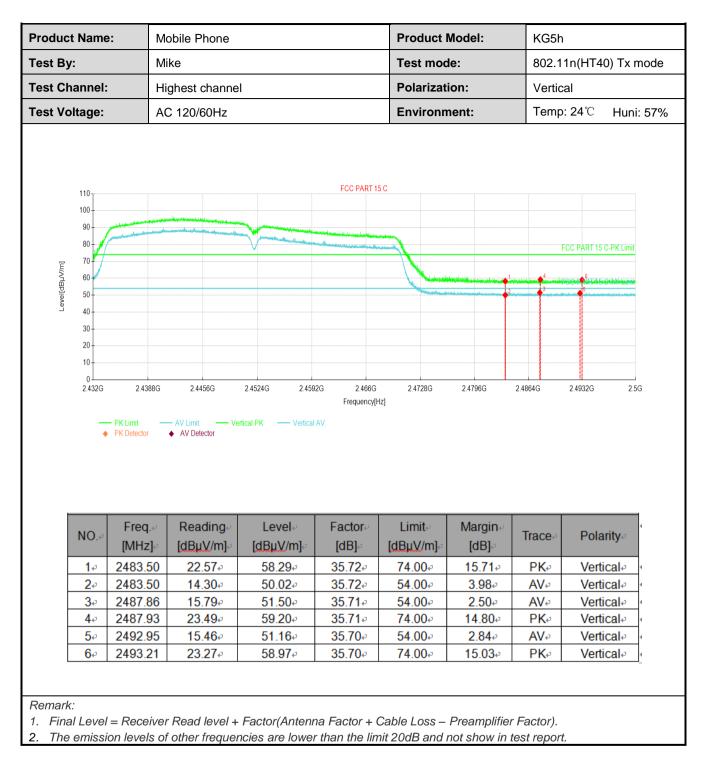
#### 802.11n(HT40):

roduct Name:			Mobile Phone				Product Model:		KG5h	
est By:	1	Mik	9			Test mo	de:	802.11	n(HT40) 1	Tx mode
est Cha	annel:	Low	est channel			Polariza	tion:	Vertica	ıl	
est Vol	tage:	AC	AC 120/60Hz				Environment: Temp: 24		<b>24</b> ℃	Huni: 57%
Leve[[dBµV/m]	110 100 90 80 70 60 60 50 50 40		and a state of the		FCC PART 15				FCC PART 15 C-F	
		2.3232G - PK Limit - PK Detector	2.3364G — AV Limit — Ve ♦ AV Detector	23496G 2.362 ertical PK — Vertical	Frequency[H2	2.3892G z]	2.4024G	2.4156G	2.4288G	2.442G
	20 10 0 2.31G	PK Limit - PK Detector	AV Limit Ve AV Detector	ertical PK Vertical Level+	Frequency[H: AV Factor⊷	z] Limite	Margin∉	2.4156G	2.4288G Polari	
	20 10 2.31G	- PK Limit -	AV Limit Ve     AV Detector	ertical PK — Vertical	Frequency[H:	z]				ty⊳
	20 10 0 2.31G	PK Limit PK Detector Freq.⊷ [MHz]⊷	AV Limit → Ve AV Detector Reading [dBµV/m]	ertical PK — Vertical Level↔ [dBµV/m].∘	Frequency[H: AV Factor⊷ [dB]⊸	z] Limit⊍ [dBµV/m]↩	Margin.⊎ [dB].∘	Trace	Polari	ty⇔ al⊷
	20 10 0 2.31G	Freq.# [MHz] 2342.90	AV Limit Ve AV Detector Ve	Level [dBµV/m]₀ 51.09₊	Frequency[H: AV Factor⊷ [dB]⊷ 35.50.∞	Limit-/ [dBµV/m]↔ 54.00↔	Margin⊮ [dB]⊮ 2.91₽	Trace.⊲ AV.₊	Polari Vertic	ty∍ al₊ al₊
	20 10 0 2.31G • NO.€ <sup>2</sup> 1€ <sup>2</sup> 2€ <sup>2</sup>	Freq [MHz] 2342.90 2343.18	AV Limit Ve AV Detector Ve AV Detector Ve (dBµV/m] 15.59+ <sup>2</sup> 23.90+ <sup>3</sup>	Eevel [dBµV/m], 51.09 59.41,	Frequency[H: AV [dB]= 35.50,= 35.51,=	Limit↓ [dBµV/m]↓ 54.00↓ 74.00↓	Margin.⊎ [dB].⊎ 2.91.₽ 14.59₽	Trace.₀ AV.₀ PK.₀	Polari Vertic Vertic	ty∍ al₊∍ al₊∍
	20 10 0 2.31G • NO.• 1.• 2.• 3.•	Freq [MHz] 2342.90 2343.18 2368.90	AV Limit Ve AV Detector Ve (dBµV/m) 15.594 23.904 15.524 23.904	Eevel [dBµV/m]. 51.09. 51.21.2	Frequency[H: AV [dB] 35.50¢ 35.51¢ 35.69¢	Limit⊮ [dBµV/m]• 54.00₊ 74.00₊ 54.00₊	Margin.∉ [dB].∉ 2.91.∉ 14.59.∉ 2.79.∉	Trace. AV. PK. AV.	Polari Vertic Vertic Vertic	ty⇒ al₊ al₊ al₊ al₊











Product Nan	ie: M	Mobile Phone				Product Model:		KG5h		
fest By:	М	ike			Test mo	de:	802.1 <sup>2</sup>	1n(HT40) Tx r	node	
Fest Channe	I: Н	ghest channe	1		Polariza	Polarization:		ontal		
Fest Voltage	: A	AC 120/60Hz				Environment:		Temp: 24°C Huni: 57%		
110	for the second s			FCC PART 15	IC	in the second	hubb har an start and a sta	FCC PART 15 C-PK Limi		
0 0 40 - 20 - 10 - 2.432	<ul> <li>3 2.4388G</li> <li>→ PK Limit</li> <li>→ PK Detector</li> </ul>	2.4456G AV Limit — Ho AV Detector	2.4524G 2.459 prizontal PK — Horiz	12G 2.466G Frequency[H zontal AV	2.4728G z]	2.4796G	2.4864G	2.4932G 2.	5G	
40 30 20 	PK Limit - ◆ PK Detector -	— AV Limit — Ho		Frequency[H		2.4796G Margin.√ [dB]-2	2.4864G	2.4932G 2.		
40 30 20 10 2.432	PK Limit - ◆ PK Detector -	AV Limit Ho ◆ AV Detector Ho Readinge	orizontal PK Horiz Level+4	Frequency(H zontal AV	z] Limit	Margin∉			4	
40 30 20 10 2.432 NO.	PK Limit ◆ PK Detector → Freq.e [MHz]	AV Limit Ho AV Detector Reading ↓ [dBµV/m] ↓ 21.77 ↓ 15.32 ↓	onzontal PK — Hori: Level₊ [dBµV/m]₊∂	Frequency[H zontal AV Factor+1 [dB]+2	z] Limit⊮ [dBµV/m]⊬	Margin⊮ [dB]∘	Trace≠ PK≠ AV≠	Polarity₽	4	
40 30 20 10 0 2.432 NO. 1+3	<ul> <li>PK Limit</li> <li>PK Detector</li> <li>Freq</li> <li>[MHz]</li> <li>2483.50</li> <li>2483.50</li> <li>2488.51</li> </ul>	AV Limit → Ho AV Detector → Ho (dBµV/m) 21.77+2 15.32+2 24.29+2	Level↔ [dBµV/m]↔ 57.49↔ 51.04↔ 60.00↔	Frequency[H zontal AV Factor+ [dB]+ <sup>3</sup> 35.72+ <sup>3</sup> 35.72+ <sup>3</sup> 35.71+ <sup>3</sup>	Limit-/ [dBµV/m]-/ 74.00/ 54.00/ 74.00/	Margin⊮ [dB]₽ 16.51₽ 2.96₽ 14.00₽	Trace∘ PK∘ AV∘ PK∗	Polarity∂ Horizontal∉ Horizontal∉ Horizontal	4	
40 30 20 10 0 2,432 NO. 14 <sup>2</sup> 24 <sup>3</sup> 34 <sup>3</sup> 44 <sup>3</sup>	<ul> <li>PK Limit</li> <li>PK Detector</li> <li>PK Detector</li> <li>[MHz]₂</li> <li>2483.50</li> <li>2483.51</li> <li>2488.61</li> </ul>	AV Limit Ho AV Detector Ho AV Detector [dBµV/m]= 21.77+ 15.32+ 24.29+ 15.62+ 15.62+	Level↔ [dBµV/m]↔ 57.49↔ 51.04↔ 60.00↔ 51.33↔	Frequency[H contal AV Factor+/ [dB]+/ 35.72+/ 35.71+/ 35.71+/ 35.71+/	Limit. [dBµV/m]- 74.00+ 54.00+ 74.00+ 54.00+ 54.00+	Margin.∉ [dB].º 16.51.€ 2.96.¢ 14.00.€ 2.67.€	Trace≠ PK≠ AV≠ PK≠ AV≠	Polarity⊮ Horizontal₊ Horizontal₊ Horizontal₊ Horizontal₊	4	
10- 10- 2.432 NO. 1.2 2.432	<ul> <li>PK Limit</li> <li>PK Detector</li> <li>Freq</li> <li>[MHz]</li> <li>2483.50</li> <li>2483.50</li> <li>2488.51</li> </ul>	AV Limit → Ho AV Detector → Ho (dBµV/m) 21.77+2 15.32+2 24.29+2	Level↔ [dBµV/m]↔ 57.49↔ 51.04↔ 60.00↔	Frequency[H zontal AV Factor+ [dB]+ <sup>3</sup> 35.72+ <sup>3</sup> 35.72+ <sup>3</sup> 35.71+ <sup>3</sup>	Limit-/ [dBµV/m]-/ 74.00/ 54.00/ 74.00/	Margin⊮ [dB]₽ 16.51₽ 2.96₽ 14.00₽	Trace∘ PK∘ AV∘ PK∗	Polarity∂ Horizontal∉ Horizontal∉ Horizontal	4 7 7 4 7 4 7 4 7 4	



# 6.7 Spurious Emission

## 6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Measurement Data:	Refer to Appendix A - 2.4G WIFI



#### 6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Se	ection 15.	209 an	d 15.205			
Test Frequency Range:	9kHz to 25GHz						
Test Distance:	3m						
Receiver setup:	Frequency	Deteo	ctor	RBW	V	BW	Remark
	30MHz-1GHz	Quasi-peak				OKHz	Quasi-peak Value
	Above 1GHz	GHz Pea				ЛНz	Peak Value
		RM		1MHz		ЛНz	Average Value
Limit:	Frequency		Limit	t (dBuV/m @3	m)	-	Remark
	30MHz-88MH			40.0			uasi-peak Value
	88MHz-216MH 216MHz-960M			43.5 46.0		1	uasi-peak Value uasi-peak Value
	960MHz-1GH			54.0		1	uasi-peak Value
				54.0			Average Value
	Above 1GHz	<u> </u>		74.0			Peak Value
Test entres	<ol> <li>The table was highest radiated highest radiated in the table was antenna, which tower.</li> <li>The EUT was antenna, which tower.</li> <li>The antenna ground to det horizontal and measurement in the rotated the table.</li> <li>The test-recensional Barrow Specified Barrow If the emission limit specified the EUT woul 10dB margin average method.</li> </ol>	above 10 s rotated tion. s set 3 m ch was m height is rermine th d vertical t. pected el antenna able was ading. viver syste ndwidth v n level o l, then te ld be rep would be	GHz) at 360 de eters a nounted varied ne max polariz missior was tu s turned em was turned em was f the El sting co orted. ( e re-tes	way from the d on the top of from one me imum value of zations of the h, the EUT wa ned to height d from 0 degr s set to Peak wimum Hold UT in peak mould be stopp Otherwise the sted one by o	ind at ermin of a va eter to of the ante as arr s fror ees to Dete mode v oed ar e emis ne us	t a 3 m te the p ference ariable- o four m field s nna are ranged n 1 me o 360 c ct Fund was 10 nd the p ssions ing pea	eter chamber. position of the e-receiving height antenna neters above the trength. Both e set to make the to its worst case ter to 4 meters degrees to find the ction and dB lower than the peak values of that did not have ak, quasi-peak or
Test setup:	Below 1GHz		4m			5	

Project No.: JYTSZE2111070



## Report No: JYTSZB-R12-2102564

	Horn Antenna Tower Horn Antenna Tower Ground Reference Plane Test Receiver
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	<ol> <li>Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.</li> <li>9 kHz to 30MHz is lower than the limit 20dB, so only shows the data of above 30MHz in this report.</li> </ol>

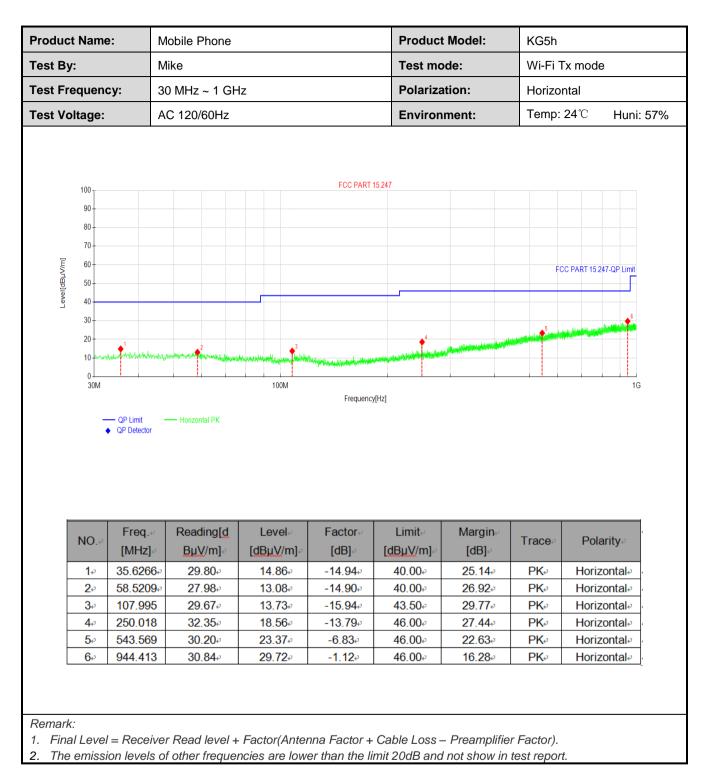


#### Measurement Data (worst case):

#### Below 1GHz:

est By: est Frequen	М	:				Product Model:		KG5h		
est Frequen		Mike				ode:	Wi-Fi Tx mode			
	<b>cy:</b> 30	) MHz ~ 1 GH:	z		Polariza	ation:	Vertical			
est Voltage:	A	AC 120/60Hz			Environ	Environment:		Temp: 24℃ Huni: 57		
100- 90- 80- 70- [[[]] ([]]) (				FCC PART 1	5247		FCC	C PART 15 247-QP Limit		
				Frequency				16		
20 10 - 4 0	QP Limit QP Detector	Vertical PK	100M	Factor	[Hz]	Margin≓	Trace	net in the second seco		
20 10 30M	QP Limit ↓ QP Detector Freq.+' [MHz]->	Vertical PK Reading[d BuV/m]₽	100M Level.₂ [dBµV/m].₂	Factor.∉ [dB]∉	(H₂) Limit⊬ [dBµV/m]⊬	۲ Margin⊮ [dB]∘		Polarity⊮		
20 10 0 30M	QP Limit QP Detector Freq.≁ [MHz]→ 31.9402↔	Vertical PK	100M Level⊷ [dBµV/m]⊷ 16.35⊷	Factor⊮ [dB]⊮ -15.71₽	Limit.₀ [dBµV/m]₀ 40.00₀	Margin.∞ [dB]∞ 23.65⊷	PK₽	Polarity₀ Vertical₀		
20 10 0 30M	QP Limit		100M 100M Level↔ [dBµV/m]↔ 16.35↔ 21.96↔	Factor.∉ [dB].∉ -15.71.∉ -17.50.€	Limit. [Hz] [dBµV/m]- 40.00. 43.50.	Margin.∞ [dB]∞ 23.65¢ 21.54¢	PK↔ PK↔	Polarity Vertical Vertical		
20 10 0 30M	OP Limit     OP Detector     OP Detector     IMHZ]->     31.9402+>     90.2430+>     107.995		100M 100M Level → [dBµV/m] → 16.35 → 21.96 → 24.10 →	Factor⊮ [dB]₀ -15.71₽ -17.50₽ -15.94₽	Limit. [dBµV/m] • 40.00.• 43.50.• 43.50.•	Margin [dB]- 23.65- 21.54- 19.40-	PKe PKe PKe	Polarity∉ Vertical∉ Vertical∉ Verticale		
20 10 0 30M	QP Limit		100M 100M Level↔ [dBµV/m]↔ 16.35↔ 21.96↔	Factor.∉ [dB].∉ -15.71.∉ -17.50.€	Limit. [Hz] [dBµV/m]- 40.00. 43.50.	Margin.∞ [dB]∞ 23.65¢ 21.54¢	PK↔ PK↔	Polarity Vertical Vertical		







#### Above 1GHz

			802.11b			
			annel: Lowest ch			
		De	tector: Peak Valu			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatior
4824.00	61.62	-9.46	52.16	74.00	21.84	Vertical
4824.00	59.77	-9.46	50.31	74.00	23.69	Horizontal
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4824.00	58.85	-9.46	49.39	54.00	4.61	Vertical
4824.00	56.57	-9.46	47.11	54.00	6.89	Horizonta
		Test ch	annel: Middle ch	annel		
			tector: Peak Valu			
Frequency	Read Level		Level	Limit Line	Margin	
(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	Polarizatio
4874.00	61.71	-9.11	52.60	74.00	21.40	Vertical
4874.00	59.42	-9.11	50.31	74.00	23.69	Horizonta
		Dete	ctor: Average Va	alue		-
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	58.61	-9.11	49.50	54.00	4.50	Vertical
4874.00	56.15	-9.11	47.04	54.00	6.96	Horizonta
		Tost ch	annel: Highest cl	annel		
			tector: Peak Valu			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4924.00	61.74	-8.74	53.00	74.00	21.00	Vertical
4924.00	59.41	-8.74	50.67	74.00	23.33	Horizonta
		Dete	ctor: Average Va	alue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
	59.29	-8.74	50.55	54.00	3.45	Vertical
4924.00	00.20	••••				



			802.11g			
			annel: Lowest ch			
	T	Det	tector: Peak Valu		1	-
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarization
4824.00	61.86	-9.46	52.40	74.00	21.60	Vertical
4824.00	59.77	-9.46	50.31	74.00	23.69	Horizonta
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4824.00	58.67	-9.46	49.21	54.00	4.79	Vertical
4824.00	56.07	-9.46	46.61	54.00	7.39	Horizonta
		Tost ch	annel: Middle ch	annol		
			tector: Peak Valu			
Frequency	Read Level		Level	Limit Line	Margin	
(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	Polarizatio
4874.00	61.51	-9.11	52.40	74.00	21.60	Vertical
4874.00	59.78	-9.11	50.67	74.00	23.33	Horizonta
		Dete	ctor: Average Va	llue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	58.75	-9.11	49.64	54.00	4.36	Vertical
4874.00	56.37	-9.11	47.26	54.00	6.74	Horizonta
		Test ch	annel: Highest ch	nannel		
	1	Det	tector: Peak Valu	Ie	1	
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4924.00	61.82	-8.74	53.08	74.00	20.92	Vertical
4924.00	60.07	-8.74	51.33	74.00	22.67	Horizonta
		Dete	ctor: Average Va	lue	1	
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4924.00	59.09	-8.74	50.35	54.00	3.65	Vertical
4924.00	56.49	-8.74	47.75	54.00	6.25	Horizonta
4924.00 Remark: . Final Level =	56.49 Receiver Read leve	-8.74 + Factor.	47.75		6.25	



			802.11n(HT20) annel: Lowest ch	annal		
			tector: Peak Valu			
Frequency	Read Level	De	Level	Limit Line	Margin	
(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	Polarizatio
4824.00	62.02	-9.46	52.56	74.00	21.44	Vertical
4824.00	59.64	-9.46	50.18	74.00	23.82	Horizonta
	1	Dete	ctor: Average Va	lue	1	-
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4824.00	58.32	-9.46	48.86	54.00	5.14	Vertical
4824.00	56.53	-9.46	47.07	54.00	6.93	Horizonta
		Test ch	annel: Middle ch	annel		
		Det	ector: Peak Valu	e		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	62.24	-9.11	53.13	74.00	20.87	Vertical
4874.00	60.00	-9.11	50.89	74.00	23.11	Horizonta
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	57.94	-9.11	48.83	54.00	5.17	Vertical
4874.00	56.77	-9.11	47.66	54.00	6.34	Horizonta
			annel: Highest ch			
<b>F</b>	Des 11 a st	De	ector: Peak Valu		Margin	
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4924.00	61.88	-8.74	53.14	74.00	20.86	Vertical
4924.00	59.60	-8.74	50.86	74.00	23.14	Horizonta
	1	Dete	ctor: Average Va	lue	1	-1
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4924.00	57.82	-8.74	49.08	54.00	4.92	Vertical
4924.00	56.90	-8.74	48.16	54.00	5.84	Horizonta



			802.11n(HT40) annel: Lowest ch	annel		
			tector: Peak Valu			
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4844.00	61.84	-9.32	52.52	74.00	21.48	Vertical
4844.00	59.56	-9.32	50.24	74.00	23.76	Horizonta
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4844.00	57.87	-9.32	48.55	54.00	5.45	Vertical
4844.00	56.86	-9.32	47.54	54.00	6.46	Horizonta
			annel: Middle ch			
	T	Det	ector: Peak Valu		T	
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	62.13	-9.11	53.02	74.00	20.98	Vertical
4874.00	59.37	-9.11	50.26	74.00	23.74	Horizonta
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4874.00	57.48	-9.11	48.37	54.00	5.63	Vertical
4874.00	57.10	-9.11	47.99	54.00	6.01	Horizonta
		Test cha	annel: Highest ch	annel		
		Det	ector: Peak Valu	е		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4904.00	61.61	-8.90	52.71	74.00	21.29	Vertical
4904.00	59.27	-8.90	50.37	74.00	23.63	Horizonta
		Dete	ctor: Average Va	lue		
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Polarizatio
4904.00	58.34	-8.90	49.44	54.00	4.56	Vertical
4904.00	57.02	-8.90	48.12	54.00	5.88	Horizonta

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