

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R01-2100787

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 (EUT)

Product Name: Mobile Phone

Model No.: KG5h

Trade mark: TECNO

FCC ID: 2ADYY-KG5H

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

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 *

Authorized Signature:



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.

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^{*} In the configuration tested, the EUT complied with the standards specified above.





Version

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

Tested by: Date: 13 Dec., 2021

Winner Thang

Project Engineer Reviewed by: Date: 13 Dec., 2021





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4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part 15.107	Pass		
Radiated Emission	Part 15.109	Pass		
Remark: 1. Pass: The EUT complies with the essential requirements in the standard.				
Test Method: ANSI C63.4:2014				



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
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.

5.3 Test Mode and test samples plans

Operating mode	Detail description	
PC mode	Keep the EUT in Downloading mode(Worst case)	
Charging+Recording mode	Keep the EUT in Charging+Recording mode	
Charging+Playing mode	Keep the EUT in Charging+Playing mode	
FM mode	Keep the EUT in FM receiver mode	
GPS mode	Keep the EUT in GPS receiver mode	

The sample was placed 0.8m 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.

Test Samples Plans:

Samples Number	Used for Test Items	
1#	Conducted Emission	
1#	Radiated Emission	
5#	EUT constructional details	

Remark: Jian Yan Testing Group Shenzhen Co., Ltd. is only responsible for the test project data of the above samples, and will keep the above samples for a month.

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5.4 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
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX7070	2J8XSZ2	DoC
DELL	MONITOR	SE2018HR	3M7QPY2	DoC
DELL	KEYBOARD	KB216d	N/A	DoC
DELL	MOUSE	MS116t1	N/A	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type	Description	Length	From	То
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.2m	EUT	Headset

5.8 Additions to, deviations, or exclusions from the method

No

5.9 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: https://portal.a2la.org/scopepdf/4346-01.pdf





5.10 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

5.11 Test Instruments list

Radiated Emission:						
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	
Biconical Antenna	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	Version: 6.110919b			

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Test results and Measurement Data

6.1 Conducted Emission

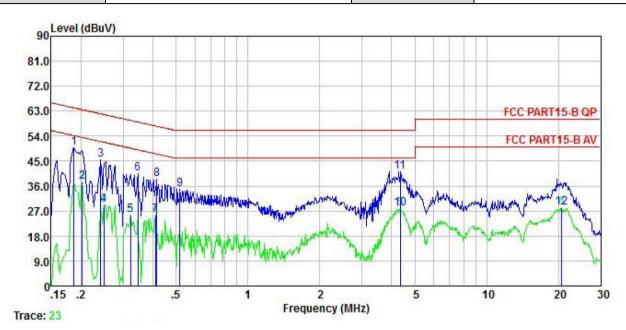
Test Requirement:	FCC Part 15 B Section 15.107					
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Frequency range (MHz)	Limit	(dBµV)			
	. , , ,	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	0.5-30	60	50			
	* Decreases with the logarithm	of the frequency.				
Test setup:	Reference Plane					
Toot procedure	Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC power				
Test procedure	 The E.U.T and simulators are impedance stabilization network coupling impedance for the network. The peripheral devices are a LISN that provides a 50ohm/termination. (Please refers to photographs). Both sides of A.C. line are interference. In order to fin positions of equipment and according to ANSI C63.4(later). 	rork(L.I.S.N.). The provineasuring equipment. Iso connected to the m 50uH coupling impeda the block diagram of the checked for maximum differences all of the interface call.	ride a 50ohm/50uH nain power through a nce with 50ohm the test setup and conducted on, the relative ples must be changed			
Test Instruments:	Refer to section 5.11 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

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Measurement data:

Product name:	Mobile Phone	Product model:	KG5h
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	<u>dB</u>	dB	dBu∜	dBu₹	<u>dB</u>	
1	0.186	39.59	10.23	-0.13	0.02	49.71	64.20	-14.49	QP
1 2 3 4 5 6 7 8	0.202	27.31	10.23	-0.16	0.04	37.42	53.54	-16.12	Average
3	0.242	35.48	10.24	-0.21	0.01	45.52	62.04	-16.52	QP
4	0.249	19.29	10.25	-0.22	0.01	29.33	51.78	-22.45	Average
5	0.322	15.23	10.26	-0.09	0.03	25.43	49.66	-24.23	Average
6	0.346	30.19	10.27	0.08	0.02	40.56	59.05	-18.49	QP
7	0.410	14.95	10.28	0.33	0.04	25.60	47.64	-22.04	Average
8	0.415	27.98	10.28	0.31	0.04	38.61	57.55	-18.94	QP
9	0.518	24.89	10.29	-0.36	0.03	34.85	56.00	-21.15	QP
10	4.338	17.31	10.40	0.00	0.08	27.79	46.00	-18.21	Average
11	4.338	30.83	10.40	0.00	0.08	41.31	56.00	-14.69	QP
12	20.594	16.26	10.92	0.90	0.18	28.26	50.00	-21.74	Average

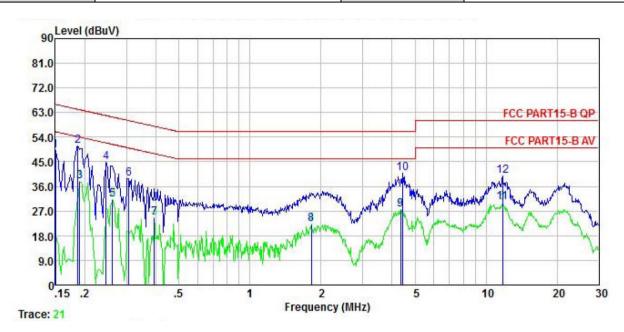
Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.

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Product name:	Mobile Phone	Product model:	KG5h
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
: -	MHz	dBu₹	dB	<u>ab</u>	dB	dBu₹	dBu₹	<u>dB</u>	
1	0.150 0.186	39.07 40.65	10.19 10.21	0.01 0.00	0.01 0.02	49.28 50.88		-16.72 -13.32	
3	0.190	27.67	10.21	0.00	0.03	37.91	54.02	-16.11	Average
2 3 4 5 6 7 8 9	0.246 0.262	34.68 20.93	10.24 10.24	0.01	0.01	44.94 31.19	51.38		Average
6 7	0.307 0.393	28.72 14.41	10.25 10.27	0.00 -0.06	0.03 0.04	39.00 24.66	47.99		Average
	1.819 4.338	11.44 16.60	10.32 10.39	0.16 0.57	0.19	22.11 27.64			Average Average
10 11	4.430 11.745	29.74 17.30	10.39 10.64	0.58 2.05	0.08	40.79		-15.21 -19.91	QP Average
12	11.745	27.13	10.64	2.05	0.10	39.92		-20.08	

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.

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6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Se	FCC Part 15 B Section 15.109						
Test Frequency Range:	30MHz to 6000MI	Hz						
Test site:	Measurement Dis	tance: 3m (Sem	i-Anechoic (Chamber)			
Receiver setup:	Frequency	Detecto	r	RBW	VBW	Remark		
, , , , , , , , , , , , , , , , , , ,	30MHz-1GHz	Quasi-pe	ak	120kHz	300kHz	Quasi-peak Value		
	Above 1GHz	Peak		1MHz	3MHz	Peak Value		
	Above 1GHZ	RMS 1MHz 3MHz Average Va						
Limit:	Frequenc	_	Lim	it (dBuV/m	@3m)	Remark		
	30MHz-88N			40.0		Quasi-peak Value		
	88MHz-216I			43.5		Quasi-peak Value		
	216MHz-960			46.0		Quasi-peak Value		
	960MHz-1G	pHZ		54.0 54.0		Quasi-peak Value		
	Above 1GI	Hz		74.0		Average Value Peak Value		
Test setup:	Below 1GHz Tum Table 0.8m	4m		RF 7 Rece				
	Ground Plane — Above 1GHz		·///					
	AE H	IV V V	3m	Pra	Antenna Tow	er		
Test Procedure:	ground at a 3 ndegrees to detect 2. The EUT was swhich was mound 3. The antenna hours ground to detect to detect the street and the street the street and the street the street and the street the street the street and the street the	neter semi- ermine the p set 3 meters unted on the eight is vari rmine the m	aneclositi s awa top ed from	hoic camber on of the hig by from the in of a variable om one mete um value of	The table the table of ta	ce-receiving antenna, ntenna tower. meters above the		





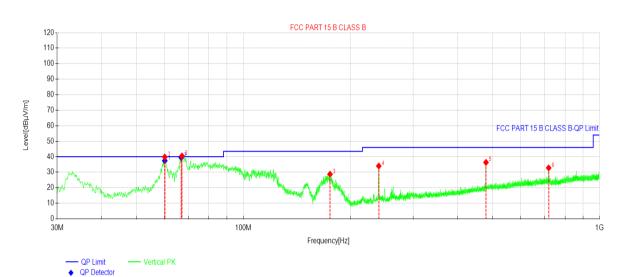
	 For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the
	limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded



Measurement Data:

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	KG5h
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



NO.	Freq.⊌ [MHz]⊌	Reading[d BuV/m]∂	Level⊬ [dBµV/m]⊬	Factor⊌ [dB]⊌	Limit⊬ [dBµV/m]⊮	Margin⊬ [dB]⊬	Trace₽	Polarity₽
1₽	60.1700₽	54.86₽	39.82₽	-15.04₽	40.00₽	0.18₽	PK₽	Vertical₽
2₽	67.2517₽	56.72₽	40.50₽	-16.22₽	40.00₽	-0.50₽	PK₽	Vertical₽
3₽	175.126	45.72₽	28.75₽	-16.97₽	43.50₽	14.75₽	PK₽	Vertical₽
4 0	240.026	48.24₽	34.02₽	-14.22₽	46.00₽	11.98₽	PK₽	Vertical₽
5₽	480.028	43.96₽	36.35₽	-7.61₽	46.00₽	9.65₽	PK₽	Vertical₽
6₽	720.030	36.88₽	32.80₽	-4.08₽	46.00₽	13.20₽	PK₽	Vertical₽

Final Data List∂									
NO.₽	Freq.⊬ [MHz]⊬	Factor⊬ [dB]⊬	QP Value√ [dBµV/m]√	QP Limit⊬ [dBµV/m]⊬	QP Margin⊮ [dB]⊮	QP Reading√ [dBµV/m]√	Angle⊬ [°]∂	Verdict <i>₀</i>	
1₽	60.1700₽	-15.04	37.44₽	40.00₽	2.56₽	52.48₽	93₽	PASS₽	
2₽	66.9402₽	-16.22₽	39.44₽	40.00₽	0.56₽	55.66₽	281.1₽	PASS₽	

Remark

- 1. Final Level = Receiver Read level + Factor.(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Mobile Phone	Product Model:	KG5h
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.₽	Freq.⊬ [MHz]₽	Reading[d BµV/m]∉	Level⊬ [dBµV/m]⊬	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace∂	Polarity
1₽	60.1700₽	41.52₽	26.48₽	-15.04₽	40.00₽	13.52₽	PK₽	Horizontal₽
2₽	170.470	47.31₽	30.31₽	-17.00₽	43.50₽	13.19₽	PK₽	Horizontal₽
3₽	240.026	51.22₽	37.00₽	-14.22₽	46.00₽	9.00₽	PK₽	Horizontal₽
4 ₽	480.028	43.74₽	36.13₽	-7.61₽	46.00₽	9.87₽	PK₽	Horizontal₽
5₽	720.030	39.39₽	35.31₽	-4.08₽	46.00₽	10.69₽	PK₽	Horizontal₽
6₽	864.089	31.56₽	30.21₽	-1.35₽	46.00₽	15.79₽	PK₽	Horizontal₽

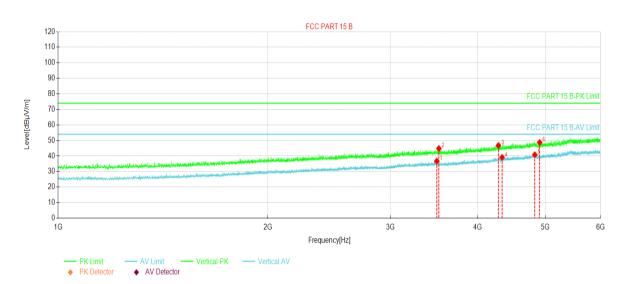
Pomark

- 1. Final Level = Receiver Read level + Factor.(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Above 1GHz:

Product Name:	Mobile Phone	Product Model:	KG5h		
Test By:	Mike	Test mode:	PC mode		
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



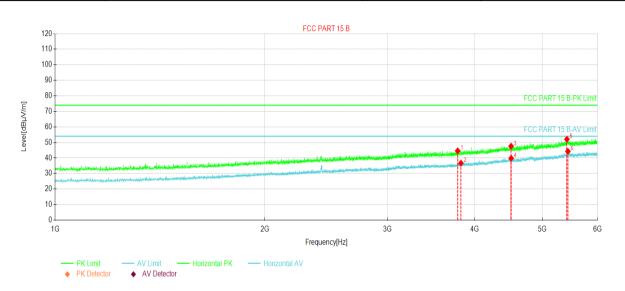
NO.₽	Freq.⊬ [MHz]∂	Reading√ [dBµV/m]∞	Level. [dBµV/m].	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]⊬	Margin⊬ [dB]⊬	Trace₽	Polarity₀
1₽	3493.74	52.10₽	36.69₽	-15.41₽	54.00₽	17.31₽	AV₽	Vertical₽
2↩	3517.75	60.20₽	44.81₽	-15.39₽	74.00₽	29.19₽	PK₽	Vertical₽
3₽	4282.82	59.15₽	46.76₽	-12.39₽	74.00₽	27.24₽	PK₽	Vertical₽
4₽	4334.83	51.18₽	39.10₽	-12.08₽	54.00₽	14.90₽	AV₽	Vertical₽
5₽	4829.38	50.70₽	40.78₽	-9.92₽	54.00₽	13.22₽	AV₽	Vertical₽
6₽	4907.39	58.08₽	48.68₽	-9.40₽	74.00₽	25.32₽	PK₽	Vertical₽⊸

Remark:

- 1. Final Level = Receiver Read level + Factor.(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	Mobile Phone	Product Model:	KG5h
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



NO.₽	Freq. [MHz]∂	Reading√ [dBµV/m]∞	Level. [dBµV/m].	Factor⊬ [dB]⊬	Limit⊬ [dBµV/m]∂	Margin⊬ [dB]⊬	Trace₽	Polarity
1₽	3780.27	59.20₽	44.59₽	-14.61₽	74.00₽	29.41₽	PK₽	Horizontal₽
2₽	3821.28	51.06₽	36.65₽	-14.41₽	54.00₽	17.35₽	AV₽	Horizontale •
3₽	4509.85	58.76₽	47.57₽	-11.19₽	74.00₽	26.43₽	PK₽	Horizontal -
4₽	4511.35	51.00₽	39.81₽	-11.19₽	54.00₽	14.19₽	AV₽	Horizontal -
5₽	5423.44	58.67₽	52.07₽	-6.60₽	74.00₽	21.93₽	PK₽	Horizontal -
6₽	5440.94	50.86₽	44.26₽	-6.60₽	54.00₽	9.74₽	AV₽	Horizontal.

Remark:

- 1. Final Level = Receiver Read level + Factor.(Antenna Factor + Cable Loss Preamplifier Factor).
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.