Report No: CCISE190606905

FCC REPORT

Applicant: Telecell Mobile (H.K) Ltd.

Address of Applicant: RM 801 Metro Ctr II, 21 Lam Hing Street KIn Bay, Hong Kong

Equipment Under Test (EUT)

Product Name: mobile phone

Model No.: J9

FCC ID: 2ADX3J9

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 20 Jun., 2019

Date of Test: 20 Jun., to 10 Jul., 2019

Date of report issued: 10 Jul., 2019

Test Result: PASS*

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 CCIS 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.

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





Version

Version No.	Date	Description
00	10 Jul., 2019	Original

Test Engineer
Winner Mang Tested by: Date: 10 Jul., 2019

Reviewed by: Date: 10 Jul., 2019

Project Engineer



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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:

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

N/A: The EUT not applicable of the test item.



5 General Information

5.1 Client Information

Applicant:	Telecell Mobile (H.K) Ltd.
Address:	RM 801 Metro Ctr II, 21 Lam Hing Street KIn Bay, Hong Kong
Manufacturer/Factory:	Telecell Mobile (H.K) Ltd.
Address:	RM 801 Metro Ctr II, 21 Lam Hing Street Kln Bay, Hong Kong

5.2 General Description of E.U.T.

Product Name:	mobile phone
Model No.:	J9
Power supply:	Rechargeable Li-ion Battery DC3.7V, 2000mAh
AC adapter :	Model: J9 Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5V, 1.0A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode

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.

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.54 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.84 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)



5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
LENOVO	Laptop	SL510	2847A65	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

5.8 Laboratory Facility

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

● FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing 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 of Shenzhen Zhongjian Nanfang Testing 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 L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

A2LA - Registration No.: 4346.01

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. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

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

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366





5.10 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	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-18-2019	03-17-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		b
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020

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	101189	03-18-2019	03-17-2020
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Cable	HP	10503A	N/A	03-18-2019	03-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		b



6 Test results and Measurement Data

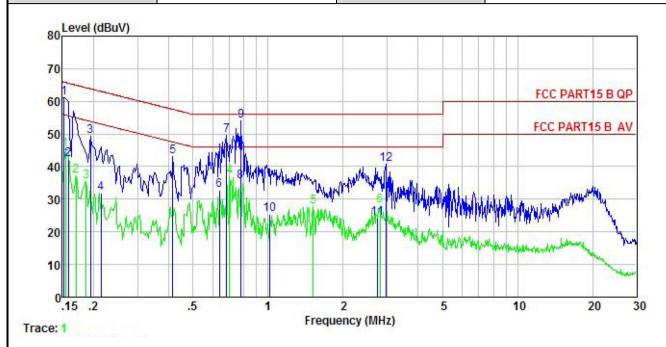
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10	07		
Test Method:	ANSI C63.4:2014			
Test Frequency Range:	150kHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:		Limit	(dBµV)	
Limit	Frequency range (MHz)	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 logarith	nm of the frequency.		
Test setup:	Reference Plan	ne		
	AUX Equipment Test table/Insulation plane Remark: E.U.T. Equipment Under Test L/SN: Line Impedence Stabilization Network Test table height=0.8m			
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 			
Test environment:	Temp.: 22.5 °C Humid.: 55% Press.: 101kPa			
Test Instruments:	Refer to section 5.9 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			



Measurement data:

Product name:	mobile phone	Product model:	J9
Test by:	YT	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%



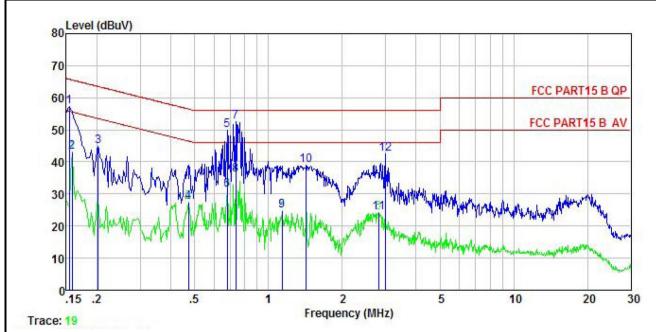
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
200	MHz	dBu∀	<u>dB</u>	<u>d</u> B	dBu₹	dBu∜	<u>ab</u>	
1	0.152	50.69	-0.45	10.78	61.02	65.87	-4.85	QP
2	0.158	31.74	-0.44	10.77	42.07	55.56	-13.49	Average
3	0.194	38.97	-0.41	10.76	49.32	63.84	-14.52	QP
4	0.214	21.57	-0.41	10.76	31.92	53.05	-21.13	Average
2 3 4 5 6 7 8 9	0.415	32.68	-0.37	10.73	43.04	57.55	-14.51	QP
6	0.637	22.38	-0.38	10.77	32.77	46.00	-13.23	Average
7	0.683	39.09	-0.38	10.77	49.48	56.00	-6.52	QP
8	0.775	25.10	-0.38	10.80	35.52	46.00	-10.48	Average
9	0.779	43.55	-0.38	10.80	53.97	56.00	-2.03	QP
10	1.016	14.85	-0.38	10.87	25.34	46.00	-20.66	Average
11	2.736	13.70	-0.43	10.93	24.20	46.00	-21.80	Average
12	2.962	30.15	-0.44	10.92	40.63		-15.37	

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.



Product name:	mobile phone	Product model:	J9
Test by:	YT	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	Cable Loss	Level	Limit Line	Over Limit	Remark
=	MHz	₫₿uѶ	<u>dB</u>	———ā≣	dBu₹	—dBu∀	<u>ab</u>	
1	0.154	47.20	-0.68	10.78	57.30	65.78	-8.48	QP
2	0.158	33.08	-0.68	10.77	43.17	55.56	-12.39	Average
3	0.202	34.68	-0.69	10.76	44.75	63.54	-18.79	QP
2 3 4 5 6 7 8 9	0.471	17.38	-0.65	10.75	27.48	46.49	-19.01	Average
5	0.679	39.83	-0.64	10.77	49.96	56.00	-6.04	QP
6	0.679	21.03	-0.64	10.77	31.16	46.00	-14.84	Average
7	0.735	42.32	-0.64	10.79	52.47	56.00	-3.53	QP
8	0.735	26.00	-0.64	10.79	36.15	46.00	-9.85	Average
9	1.135	14.54	-0.64	10.89	24.79	46.00	-21.21	Average
10	1.426	28.84	-0.65	10.92	39.11	56.00	-16.89	QP
11	2.809	13.83	-0.67	10.93	24.09	46.00	-21.91	Average
12	2.993	32.13	-0.67	10.92	42.38		-13.62	

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.



6.2 Radiated Emission

FCC Part 15 B Section 15.109							
		(0	-: A l:-	Ob 2 b 2	`		
					Remark		
30IVITZ-TGTZ					Z Quasi-peak Value Peak Value		
Above 1GHz					Average Value		
Frequenc		Lim			Remark		
				<i>-</i>	Quasi-peak Value		
			43.5		Quasi-peak Value		
			46.0		Quasi-peak Value		
960MHz-10	SHz		54.0		Quasi-peak Value		
Above 1G	⊔ -,		54.0		Average Value		
Above 1G	ΙΊΖ		74.0		Peak Value		
Turn O.8m ABOVE 1GHZ	4m 1 m A Lable)	3m	Horn Antenna	Antenna Tov			
	ANSI C63.4:2014 30MHz to 6000M Measurement Dis Frequency 30MHz-1GHz Above 1GHz Frequence 30MHz-88M 88MHz-216I 216MHz-960 960MHz-1C Above 1GHz Below 1GHz Frequence 30MHz-88M 600MHz-1C Above 1GHz Above 1GHz	ANSI C63.4:2014 30MHz to 6000MHz Measurement Distance: 3m Frequency Detectors 30MHz-1GHz Quasi-periods Above 1GHz Peak RMS Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz Below 1GHz Below 1GHz Above 1GHz Above 1GHz Above 1GHz	Measurement Distance: 3m (Sen Frequency Detector 30MHz-1GHz Quasi-peak Above 1GHz RMS Frequency Lim 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz Below 1GHz Below 1GHz Above 1GHz Below 1GHz Above 1GHz	ANSI C63.4:2014 30MHz to 6000MHz Measurement Distance: 3m (Semi-Anechoic Frequency Detector RBW 30MHz-1GHz Quasi-peak 120kHz Peak 1MHz RMS 1MHz RMS 1MHz Frequency Limit (dBuV/m 30MHz-88MHz 40.0 88MHz-216MHz 43.5 216MHz-960MHz 46.0 960MHz-1GHz 54.0 Above 1GHz Below 1GHz Below 1GHz Above 1GHz Above 1GHz Above 1GHz Above 1GHz	ANSI C63.4:2014 30MHz to 6000MHz Measurement Distance: 3m (Semi-Anechoic Chamber Frequency Detector RBW VBW 30MHz-1GHz Quasi-peak 120kHz 300kHz Above 1GHz Peak 1MHz 3MHz RMS 1MHz 3MHz Frequency Limit (dBuV/m @3m) 30MHz-88MHz 40.0 88MHz-216MHz 43.5 216MHz-960MHz 46.0 960MHz-1GHz 54.0 Above 1GHz Above 1GHz Below 1GHz Antenna Tower Search Antenna Tower Ground Plane Above 1GHz Above 1GHz Antenna Tower Antenna Tower Search Antenna Tower Antenna Tower Search Search Antenna Tower Search Search Antenna Tower Search		





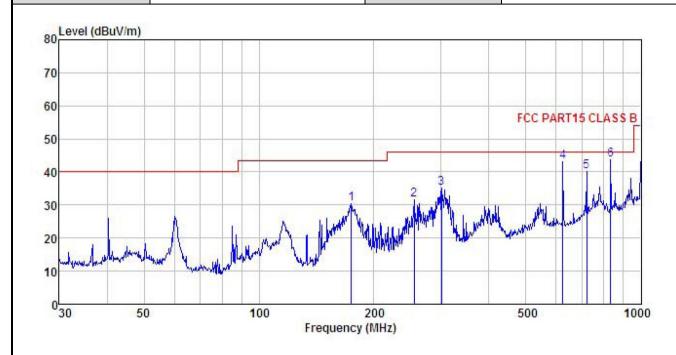
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the 							
	ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.							
	4. 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.							
		t-receiver sys d Bandwidth				n and		
	limit spe the EUT 10dB m	ecified, then to would be re	esting could be ported. Other oe re-tested o	oe stopped a wise the emi	nd the pea ssions that sing peak, o	did not have quasi-peak or		
Test environment:	Temp.:	24 °C	Humid.:	57%	Press.:	1 01kPa		
Test Instruments:	Refer to se	ection 5.9 for	details					
Test mode:	Refer to se	ection 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:	J9
Test By:	YT	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



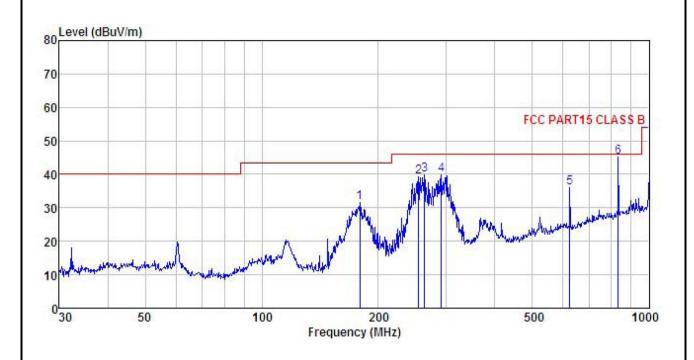
			ReadAntenna						
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	—dBu∀	<u>dB</u> /π		<u>ab</u>	$\overline{dBuV/m}$	$\overline{\mathtt{dBuV/m}}$	<u>db</u>	
1	174.424	46.90	9.79	2.69	29.02	30.36	43.50	-13.14	QP
2	254.728	44.52	12.78	2.82	28.53	31.59	46.00	-14.41	QP
1 2 3	300.367	46.88	13.63	2.94	28.45	35.00	46.00	-11.00	QP
4 5 6	625.078	48.33	19.61	3.90	28.86	42.98	46.00	-3.02	QP
5	721.726	43.88	20.49	4.26	28.58	40.05	46.00	-5.95	QP
6	833.317	45.31	22.29	4.24	28.07	43.77	46.00	-2.23	QP

Remark:

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



Product Name:	mobile phone	Product Model:	J9
Test By:	YT	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



	Freq		Intenna Factor				Limit Line	Over Limit	Remark
=	MHz	dBu∜	<u>dB</u> /π		<u>ab</u>	$\overline{dB} \overline{uV/m}$	$\overline{dBuV/m}$	<u>qp</u>	
1	179.386	47.87	9.96	2.73	28.98	31.58	43.50	-11.92	QP
2	253.837	52.27	12.76	2.82	28.53	39.32	46.00	-6.68	QP
2 3	262.896	52.54	12.95	2.84	28.52	39.81	46.00	-6.19	QP
4	291.036	51.87	13.45	2.92	28.47	39.77	46.00	-6.23	QP
5	625.078	41.26	19.61	3.90	28.86	35.91	46.00	-10.09	QP
6	833.317	46.70	22.29	4.24	28.07	45.16	46.00	-0.84	QP

Remark:

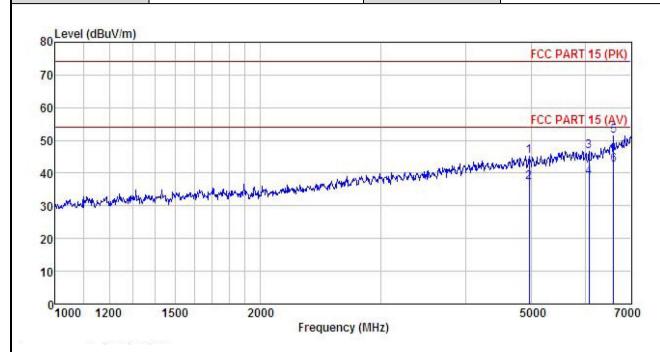
^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.



Above 1GHz:

Product Name:	3G Smart Phone	Product Model:	Platinum C4
Test By:	YT	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



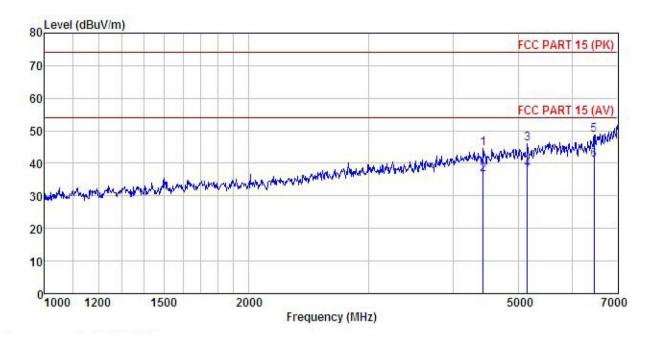
	Freq		ntenna Factor			Level	Limit Line	Over Limit	Remark
	MHz	dBu₹			<u>ab</u>	$\overline{dBuV/m}$	$\overline{\mathtt{dBuV/m}}$	<u>dB</u>	
1	4960.389	46.27	31.32	6.91	41.87	45.12	74.00	-28.88	Peak
2 3	4960.389	38.29	31.32	6.91	41.87	37.14	54.00	-16.86	Average
3	6073.037	44.85	33.00	7.98	42.03	46.61	74.00	-27.39	Peak
4	6073.037	36.97	33.00	7.98	42.03	38.73	54.00	-15.27	Average
4 5	6603.058	46.96	34.96	8.33	41.89	51.28	74.00	-22.72	Peak
6	6603.058	38.12	34.96	8.33	41.89	42.44	54.00	-11.56	Average

Remark:

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



Product Name:	3G Smart Phone	Product Model:	Platinum C4		
Test By:	YT	Test mode:	PC mode		
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



	Freq		ReadAntenna Level Factor				Limit Line	Over Limit	
	MHz	dBu∇	<u>d</u> B/m	<u>ab</u>	<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>d</u> B	
1	4430.982	47.09	30.39	6.74	41.99	44.56	74.00	-29.44	Peak
2	4430.982	39.11	30.39	6.74	41.99	36.58	54.00	-17.42	Average
2	5147.218	46.63	31.77	7.05	41.93	46.06	74.00	-27.94	Peak
4	5147.218	38.61	31.77	7.05	41.93	38.04	54.00	-15.96	Average
5	6463.221	44.91	34.65	8.28	41.90	48.84	74.00	-25.16	Peak
6	6463.221	37.06	34.65	8.28	41.90	40.99	54.00	-13.01	Average

Remark:

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

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