Report No: CCIS15050032106

# **FCC REPORT**

**Applicant:** Shenzhen siswoo mobile technology co., Itd

Address of Applicant: room 1701, haisong building, tairang road 9, futian district

shenzhen city, China

### **Equipment Under Test (EUT)**

Product Name: Mobile Phone

Model No.: C50, C50A, C55A, C5, C45, A4, A4+, A5, A5+, A6, i7, C55,

C60, M3, MG12

Trade mark: APRIX, SISWOO

FCC ID: 2AEW7SISWOOC50A

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 13 May, 2015

**Date of Test:** 14 May, to 10 Jun., 2015

Date of report issued: 11 Jun., 2015

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.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.





# **Version**

Version No.	Date	Description
00	11 Jun., 2015	Original

Luna Gao
Report Clerk Prepared by: Date: 11 Jun., 2015

Reviewed by: 11 Jun., 2015

**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

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



Report No: CCIS15050032106

### 5 General Information

### 5.1 Client Information

Applicant:	Shenzhen siswoo mobile technology co., ltd
Address of Applicant:	room 1701, haisong building, tairang road 9, futian district shenzhen city, China
Manufacturer/ Factory:	Shenzhen siswoo mobile technology co., ltd
Address of Manufacturer/ Factory:	room 1701, aisong building, tairang road 9, futian district shenzhen city, China

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

Product Name:	Mobile Phone
Model No.:	C50, C50A, C55A, C5, C45, A4, A4+, A5, A5+, A6, i7, C55, C60, M3, MG12
Power supply:	Rechargeable Li-ion Battery DC3.8V-3000mAh
	Model:KA25-0501000US
AC adapter :	Input:100-240V AC,50/60Hz 0.25A
	Output:5V DC MAX 1A

### 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
GPS mode	Keep the EUT in GPS receiver mode
FM mode	Keep the EUT in FM 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 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	PC OPTIPLEX745		DoC
DELL	DELL MONITOR		N/A	DoC
DELL	KEYBOARD SK-811		N/A	DoC
DELL	DELL MOUSE MOC5U		N/A	DoC
HP	HP Printer		05257893	DoC
MERCURY	Wireless router	MW150R	12922104015	FCC ID

Report No: CCIS15050032106

## 5.5 Laboratory Facility

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

#### • FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

#### • IC - Registration No.: 10106A-1

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.

# 5.6 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



5.7 Test Instruments list

J.1	rest mstrum	icitis iist						
Radiated Emission:								
Item	Test Equipment	Manufacturer	Manufacturer Model No.		Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017		
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	03-28-2015	03-28-2016		
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016		
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
5	Amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016		
6	Amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016		
7	Pre-amplifier (18-26GHz)  Rohde & Schwarz		AFS33-18002 650-30-8P-44	GTS218	04-01-2015	03-31-2016		
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2015	03-31-2016		
9	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A		
10	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A		
11	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	03-28-2015	03-28-2016		
12	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	03-28-2015	03-28-2016		
13	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016		
14	Universal radio communication tester		CMU200	CCIS0069	03-28-2015	03-28-2016		
15	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	04-08-2015	04-08-2016		

Cond	Conducted Emission:									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)				
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	11-10-2012	11-09-2015				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-28-2015	03-28-2016				
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016				
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016				

Project No.: CCIS150500321RF

Report No: CCIS15050032106



# 6 Test results and Measurement Data

# **6.1 Conducted Emission**

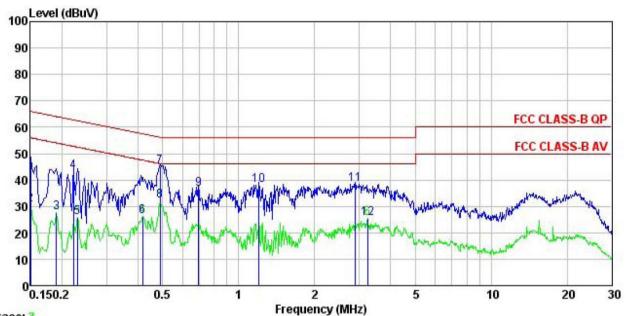
Test Requirement:	FCC Part 15 B Section 15.10	)7						
Test Method:	ANSI C63.4:2009	ANSI C63.4:2009						
Test Frequency Range:	150kHz to 30MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz	RBW=9kHz, VBW=30kHz						
Limit:		Limit	(dBµV)					
	Frequency range (MHz)	Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	0.5-30	60	50					
Test setup:	* Decreases with the logarith							
Test procedure	AUX Equipment E.U.T  Test table/Insulation plane  Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m  1. The E.U.T and simulators	Filter AC po						
	line impedance stabilization 500hm/50uH coupling imposition 2. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs).  3. Both sides of A.C. line are interference. In order to fir positions of equipment an according to ANSI C63.4:	pedance for the measure also connected to the ohm/50uH coupling imports to the block diagram are checked for maximum and the maximum emissed all of the interface care	ring equipment. e main power through pedance with 50ohm of the test setup and m conducted sion, the relative ables must be changed					
Test environment:	Temp.: 23 °C Hun	nid.: 56% Pr	ess.: 1 01kPa					
Measurement Record:		l	Jncertainty: 3.28dB					
Test Instruments:	Refer to section 5.7 for detail		· · · · · · · · · · · · · · · · · · ·					
Test mode:	Refer to section 5.3 for detail	ls						
Test results:	Pass							





#### Measurement data:

Line:



Trace: 3

: CCIS Shielding Room : FCC CLASS-B QP LISN LINE Site Condition

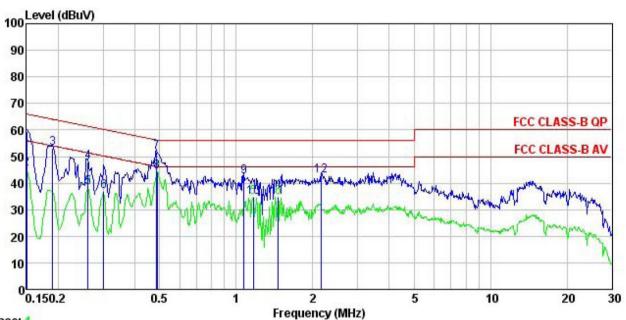
: 321RF : Moblie Phone Pro EUT : C50
Test Mode : PC mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: Carey
Remark :

Kemark	•	420 5						
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∜	<u>dB</u>	₫B	dBu₹	dBu₹	<u>dB</u>	
1	0.150	36.82	0.27	10.78	47.87	66.00	-18.13	QP
1 2 3	0.150	19.74	0.27	10.78	30.79	56.00	-25.21	Average
3	0.190	16.46	0.28	10.76	27.50	54.02	-26.52	Average
4	0.222	32.31	0.27	10.75	43.33	62.74	-19.41	QP
4 5 6 7	0.230	14.74	0.27	10.75	25.76	52.44	-26.68	Average
6	0.417	15.20	0.28	10.73	26.21	47.51	-21.30	Average
7	0.489	33.86	0.29	10.76	44.91	56.19	-11.28	QP
8	0.489	21.14	0.29	10.76	32.19	46.19	-14.00	Average
9	0.694	25.49	0.22	10.77	36.48	56.00	-19.52	QP
10	1.197	26.89	0.25	10.89	38.03	56.00	-17.97	QP
11	2.900	27.03	0.27	10.92	38.22	56.00	-17.78	QP
12	3.241	14.25	0.27	10.91	25.43	46.00	-20.57	Average





#### Neutral:



Trace: 1

Site

: CCIS Shielding Room : FCC CLASS-B QP LISN NEUTRAL Condition

321RF Pro EUT Moblie Phone

Model C50 Test Mode : PC mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Carey

Remark

Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dBu∜	<u>dB</u>	dB	dBu₹	dBu∜	<u>dB</u>	
0.150	48.28	0.25	10.78	59.31	66.00	-6.69	QP
0.150	34.54	0.25	10.78	45.57	56.00	-10.43	Average
0.190	42.25	0.25	10.76	53.26	64.02	-10.76	QP
0.262	37.08	0.26	10.75	48.09			
0.262	27.35	0.26	10.75	38.36	51.38	-13.02	Average
0.302	26.04	0.26	10.74	37.04	50.19	-13.15	Average
0.486	40.55	0.29	10.76	51.60	56.23	-4.63	QP
0.489	33.17	0.29	10.76	44.22	46.19	-1.97	Average
1.071	31.44	0.23	10.88	42.55	56.00	-13.45	QP
1.166	23.51	0.24	10.89	34.64	46.00	-11.36	Average
1.464	23.56	0.26	10.92	34.74	46.00	-11.26	Average
2.155	31.61	0.29	10.95	42.85	56.00	-13.15	QP
	Freq 0.150 0.150 0.190 0.262 0.262 0.302 0.486 0.489 1.071 1.166 1.464	Read Freq Level  MHz dBuV  0.150 48.28 0.150 34.54 0.190 42.25 0.262 37.08 0.262 27.35 0.302 26.04 0.486 40.55 0.489 33.17 1.071 31.44 1.166 23.51 1.464 23.56	Read LISN Level Factor  MHz dBuV dB  0.150 48.28 0.25 0.150 34.54 0.25 0.190 42.25 0.25 0.262 37.08 0.26 0.262 27.35 0.26 0.302 26.04 0.26 0.486 40.55 0.29 0.489 33.17 0.29 1.071 31.44 0.23 1.166 23.51 0.24 1.464 23.56 0.26	Read LISN Cable Freq Level Factor Loss  MHz dBuV dB dB  0.150 48.28 0.25 10.78 0.150 34.54 0.25 10.78 0.190 42.25 0.25 10.76 0.262 37.08 0.26 10.75 0.262 27.35 0.26 10.75 0.302 26.04 0.26 10.75 0.486 40.55 0.29 10.76 0.489 33.17 0.29 10.76 1.071 31.44 0.23 10.88 1.166 23.51 0.24 10.89 1.464 23.56 0.26 10.92	Read LISN Cable Level Factor Loss Level  MHz dBuV dB dB dB dBuV  0.150 48.28 0.25 10.78 59.31 0.150 34.54 0.25 10.78 45.57 0.190 42.25 0.25 10.76 53.26 0.262 37.08 0.26 10.75 48.09 0.262 27.35 0.26 10.75 38.36 0.302 26.04 0.26 10.75 38.36 0.302 26.04 0.26 10.74 37.04 0.486 40.55 0.29 10.76 51.60 0.489 33.17 0.29 10.76 44.22 1.071 31.44 0.23 10.88 42.55 1.166 23.51 0.24 10.89 34.64 1.464 23.56 0.26 10.92 34.74	Read LISN Cable Limit Freq Level Factor Loss Level Line  MHz dBuV dB dB dB dBuV dBuV  0.150 48.28 0.25 10.78 59.31 66.00 0.150 34.54 0.25 10.78 45.57 56.00 0.190 42.25 0.25 10.76 53.26 64.02 0.262 37.08 0.26 10.75 48.09 61.38 0.262 27.35 0.26 10.75 38.36 51.38 0.302 26.04 0.26 10.75 38.36 51.38 0.302 26.04 0.26 10.75 38.36 51.38 0.302 26.04 0.26 10.75 38.36 51.38 0.489 33.17 0.29 10.76 51.60 56.23 0.489 33.17 0.29 10.76 44.22 46.19 1.071 31.44 0.23 10.88 42.55 56.00 1.166 23.51 0.24 10.89 34.64 46.00 1.464 23.56 0.26 10.92 34.74 46.00	Read LISN Cable Limit Over Level Factor Loss Level Line Limit  MHz dBuV dB dB dBuV dBuV dBuV dB  0.150 48.28 0.25 10.78 59.31 66.00 -6.69 0.150 34.54 0.25 10.78 45.57 56.00 -10.43 0.190 42.25 0.25 10.76 53.26 64.02 -10.76 0.262 37.08 0.26 10.75 48.09 61.38 -13.29 0.262 27.35 0.26 10.75 38.36 51.38 -13.02 0.302 26.04 0.26 10.75 38.36 51.38 -13.02 0.302 26.04 0.26 10.75 38.36 51.38 -13.02 0.486 40.55 0.29 10.76 51.60 56.23 -4.63 0.489 33.17 0.29 10.76 51.60 56.23 -4.63 0.489 33.17 0.29 10.76 44.22 46.19 -1.97 1.071 31.44 0.23 10.88 42.55 56.00 -13.45 1.166 23.51 0.24 10.89 34.64 46.00 -11.36 1.464 23.56 0.26 10.92 34.74 46.00 -11.26

### Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.





# 6.2 Radiated Emission

Test Requirement:	FCC Part 15 B S	Section 1	5.109					
Test Method:	ANSI C63.4:2009							
Test Frequency Range:	30MHz to 6000MHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver setup:	Frequency Detector RBW VBW						Remark	
			peak 120kHz		300k	Hz	Quasi-peak Value	
	Above 1GHz	Pea	ak 1MHz 3MH			Peak Value		
	Above IGIIZ	Pea		1MHz 10H		lz	Average Value	
Limit:	Frequency		Limi	t (dBuV/m @	93m)		Remark	
	30MHz-88M	Hz		40.0			Quasi-peak Value	
	88MHz-216N	ИHz		43.5		(	Quasi-peak Value	
	216MHz-960I	MHz		46.0		(	Quasi-peak Value	
	960MHz-1G	Hz		54.0		(	Quasi-peak Value	
	Above 1GH	17		54.0			Average Value	
	Above 1GI	Above 1GHz 74.0				Peak Value		
Test setup:	/\no\/\alpha 1/=H7							





Test Procedure:	<ol> <li>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.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> </ol>						
	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.						
	<ol><li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li></ol>						
	6. 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 environment:	Temp.: 25 °C Humid.: 55% Press.: 1 01kPa						
Measurement Record:	Uncertainty: 4.88dB						
Test Instruments:	Refer to section 5.7 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						

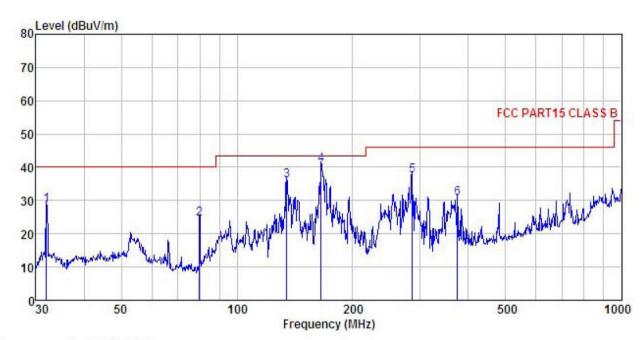




#### **Measurement Data**

#### **Below 1GHz**

Horizontal:



Site

3m chamber FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL Condition

EUT : Moblie Phone

: C50 Model Test mode : PC Mode Power Rating : AC120V/60Hz

Environment: Temp: 25.5°C Huni: 55%

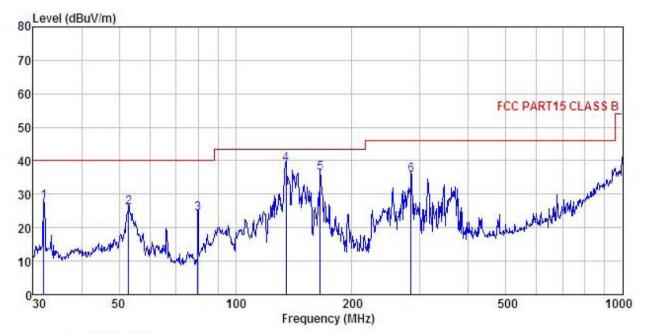
Test Engineer: REMARK :

Freq								
MHz	dBu∜	dB/π	₫B	<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
31.955	45.87	12.32	0.45	29.97	28.67	40.00	-11.33	QP
79.800	44.87	8.54	0.85	29.64	24.62	40.00	-15.38	QP
134.559	55.53	8.56	1.22	29.30	36.01	43.50	-7.49	QP
165.487	59.65	8.82	1.34	29.09	40.72	43.50	-2.78	QP
285.978	51.34	12.78	1.73	28.47	37.38	46.00	-8.62	QP
374.623	42.92	14.54	2.03	28.67	30.82	46.00	-15.18	QP
	MHz 31.955 79.800 134.559 165.487 285.978	Freq Level  MHz dBuV  31.955 45.87 79.800 44.87 134.559 55.53 165.487 59.65 285.978 51.34	Freq Level Factor  MHz dBuV dB/m  31.955 45.87 12.32 79.800 44.87 8.54 134.559 55.53 8.56 165.487 59.65 8.82 285.978 51.34 12.78	Freq Level Factor Loss  MHz dBuV dB/m dB  31.955 45.87 12.32 0.45 79.800 44.87 8.54 0.85 134.559 55.53 8.56 1.22 165.487 59.65 8.82 1.34 285.978 51.34 12.78 1.73	Freq         Level         Factor         Loss         Factor           MHz         dBuV         dB/m         dB         dB           31.955         45.87         12.32         0.45         29.97           79.800         44.87         8.54         0.85         29.64           134.559         55.53         8.56         1.22         29.30           165.487         59.65         8.82         1.34         29.09           285.978         51.34         12.78         1.73         28.47	Freq         Level         Factor         Loss Factor         Level           MHz         dBuV         dB/m         dB         dB         dB dBuV/m           31.955         45.87         12.32         0.45         29.97         28.67           79.800         44.87         8.54         0.85         29.64         24.62           134.559         55.53         8.56         1.22         29.30         36.01           165.487         59.65         8.82         1.34         29.09         40.72           285.978         51.34         12.78         1.73         28.47         37.38	Freq         Level         Factor         Loss         Factor         Level         Line           MHz         dBuV         dB/m         dB         dB         dBuV/m         d0.00         d0.00 <td< td=""><td>31.955 45.87 12.32 0.45 29.97 28.67 40.00 -11.33 79.800 44.87 8.54 0.85 29.64 24.62 40.00 -15.38 134.559 55.53 8.56 1.22 29.30 36.01 43.50 -7.49 165.487 59.65 8.82 1.34 29.09 40.72 43.50 -2.78 285.978 51.34 12.78 1.73 28.47 37.38 46.00 -8.62</td></td<>	31.955 45.87 12.32 0.45 29.97 28.67 40.00 -11.33 79.800 44.87 8.54 0.85 29.64 24.62 40.00 -15.38 134.559 55.53 8.56 1.22 29.30 36.01 43.50 -7.49 165.487 59.65 8.82 1.34 29.09 40.72 43.50 -2.78 285.978 51.34 12.78 1.73 28.47 37.38 46.00 -8.62





#### Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL Condition

EUT : Moblie Phone

Model : C50
Test mode : PC Mode
Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: REMARK :

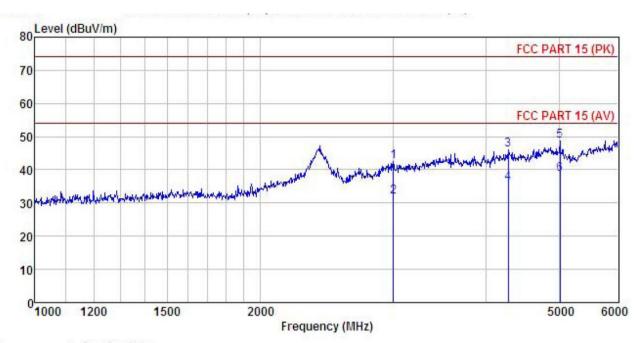
Freq							Over Limit	Remark
MHz	—dBu∇		<u>ap</u>		dBuV/m	dBuV/m		
31.955	44.82	12.32	0.45	29.97	27.62	40.00	-12.38	QP
52.945	42.07	13.13	0.63	29.81	26.02	40.00	-13.98	QP
79.800	44.50	8.54	0.85	29.64	24.25	40.00	-15.75	QP
135.032	58.40	8.56	1.23	29.30	38.89	43.50	-4.61	QP
165.487	55.10	8.82	1.34	29.09	36.17	43.50	-7.33	QP
283.979	49.65	12.75	1.72	28.48	35.64	46.00	-10.36	QP
	MHz 31.955 52.945 79.800 135.032 165.487	Freq Level  MHz dBuV  31.955 44.82 52.945 42.07 79.800 44.50 135.032 58.40 165.487 55.10	Freq Level Factor  MHz dBuV dB/m  31.955 44.82 12.32 52.945 42.07 13.13 79.800 44.50 8.54 135.032 58.40 8.56 165.487 55.10 8.82	Freq Level Factor Loss  MHz dBuV dB/m dB  31.955 44.82 12.32 0.45 52.945 42.07 13.13 0.63 79.800 44.50 8.54 0.85 135.032 58.40 8.56 1.23 165.487 55.10 8.82 1.34	Freq         Level         Factor         Loss         Factor           MHz         dBuV         dB/m         dB         dB           31.955         44.82         12.32         0.45         29.97           52.945         42.07         13.13         0.63         29.81           79.800         44.50         8.54         0.85         29.64           135.032         58.40         8.56         1.23         29.30           165.487         55.10         8.82         1.34         29.09	Freq         Level         Factor         Loss Factor         Level           MHz         dBuV         dB/m         dB         dB         dBuV/m           31.955         44.82         12.32         0.45         29.97         27.62           52.945         42.07         13.13         0.63         29.81         26.02           79.800         44.50         8.54         0.85         29.64         24.25           135.032         58.40         8.56         1.23         29.30         38.89           165.487         55.10         8.82         1.34         29.09         36.17	MHz dBuV dB/m dB dB dBuV/m dBuV/m 31.955 44.82 12.32 0.45 29.97 27.62 40.00 52.945 42.07 13.13 0.63 29.81 26.02 40.00 79.800 44.50 8.54 0.85 29.64 24.25 40.00 135.032 58.40 8.56 1.23 29.30 38.89 43.50 165.487 55.10 8.82 1.34 29.09 36.17 43.50	Freq Level Factor Loss Factor Level Line Limit  MHz dBuV dB/m dB dB dBuV/m dBuV/m dB  31.955 44.82 12.32 0.45 29.97 27.62 40.00 -12.38 52.945 42.07 13.13 0.63 29.81 26.02 40.00 -13.98 79.800 44.50 8.54 0.85 29.64 24.25 40.00 -15.75 135.032 58.40 8.56 1.23 29.30 38.89 43.50 -4.61 165.487 55.10 8.82 1.34 29.09 36.17 43.50 -7.33





#### **Above 1GHz**

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

EUT : Moblie Phone Model

: C50 : PC Mode Test mode Power Rating : AC120V/60Hz

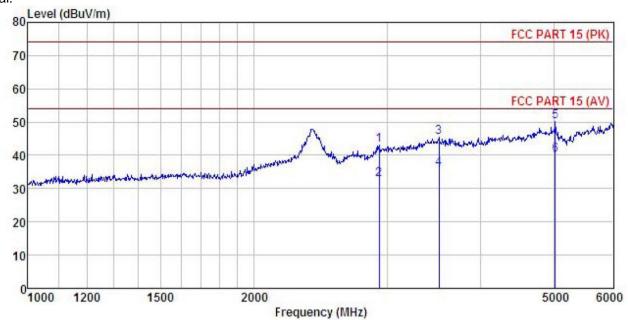
Environment : Temp:25.5°C Huni:55% Test Engineer: Carey REMARK :

TIME										
	Freq		Antenna Factor				Limit Line	Over Limit	Remark	
-	MHz	dBu∜	dB/m	₫B	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>		
1	3004.588	46.52	28.53	7.84				-31.63		
2	3004.588	35.94	28.53	7.84	40.52	31.79	54.00	-22.21	Average	
3	4276.423	46.65	30.35	9.97	40.88	46.09	74.00	-27.91	Peak	
4	4276.423	36.57	30.35	9.97	40.88	36.01			Average	
5	5015.753	46.02	31.85	10.80	39.99	48.68	74.00	-25.32	Peak	
6	5015.753	36.01	31.85	10.80	39.99	38.67	54.00	-15.33	Average	





#### Vertical:



Site

: site : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

EUT : Moblie Phone

Model : C50 Test mode : PC Mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

REMARK

Throng									
	Freq		Antenna Factor					Over Limit	
_	MHz	dBu∜	— <u>dB</u> /π		<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>d</u> B	
1	2930.156	47.40	28.44	7.70	40.56	42.98	74.00	-31.02	Peak
2	2930.156	37.25	28.44	7.70	40.56	32.83	54.00	-21.17	Average
2 3 4	3517.727	47.30	29.01	8.81	39.71	45.41	74.00	-28.59	Peak
4	3517.727	37.99	29.01	8.81	39.71	36.10	54.00	-17.90	Average
5	5024.748	47.53	31.90	10.82	40.00	50.25	74.00	-23.75	Peak
6	5024.748	37.44	31.90	10.82	40.00	40.16	54.00	-13.84	Average