Report No: CCISE170804705

FCC REPORT

Applicant: SHENZHEN COOTEL FONE TECHNOLOGY CO.,LTD

No.311, 3rd Floor, Langfeng Building, No.2, Kefa Road, Central

Address of Applicant: Area of Science and Technology Park, Nanshan District,

Shenzhen, China

Equipment Under Test (EUT)

Product Name: smart phone

Model No.: C7

Trade mark: CooTel

FCC ID: 2AHS2-C7

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 30 Jun., 2017

Date of Test: 30 Jun., to 08 Jul., 2017

Date of report issued: 09 Jul., 2017

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.

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





2 Version

Version No.	Date	Description
00	09 Jul., 2017	Original

Tested by:

Zora Lee Date: 09 Jul., 2017

Test Engineer

Reviewed by: Date: 09 Jul., 2017

Project Engineer

Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366





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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: CCISE170804705

5 General Information

5.1 Client Information

Applicant:	SHENZHEN COOTEL FONE TECHNOLOGY CO.,LTD
Address of Applicant:	No.311, 3rd Floor, Langfeng Building, No.2, Kefa Road, Central Area of Science and Technology Park, Nanshan District, Shenzhen, China
Manufacturer	SHENZHEN COOTEL FONE TECHNOLOGY CO.,LTD
Address of Manufacturer:	No.311, 3rd Floor, Langfeng Building, No.2, Kefa Road, Central Area of Science and Technology Park, Nanshan District, Shenzhen, China

5.2 General Description of E.U.T.

Product Name:	smart phone	
Model No.: C7		
Power supply:	ver supply: Rechargeable Li-ion Battery DC3.8V-3000mAh	
	Model: U0D2F0A050150	
AC adapter :	Input: AC100-240V, 50/60Hz, 250mA	
	Output: DC 5.0V, 1.5A	

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

Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

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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
HP	Printer	CB495A	05257893	DoC
MERCURY	Wireless router	MW150R	12922104015	FCC ID
NAKAMICHI	Bluetooth earphone	T8	N/A	FCC ID

5.6 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.

5.7 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

Website: http://www.ccis-cb.com

Tel: +86-755-23118282 Fax:+86-755-23116366 Email: info@ccis-cb.com





5.8 Test Instruments list

Radia	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	07-22-2014	07-21-2017		
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	02-25-2017	02-24-2018		
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	02-25-2017	02-24-2018		
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	02-25-2017	02-24-2018		
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	02-25-2017	02-24-2018		
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	02-25-2017	02-24-2018		
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	02-25-2017	02-24-2018		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	N/A	N/A	CCIS0018	02-25-2017	02-24-2018		
10	Coaxial Cable	N/A	N/A	CCIS0020	02-25-2017	02-24-2018		

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	07-22-2017	07-21-2020			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	02-25-2017	02-24-2018			
3	LISN	CHASE	MN2050D	CCIS0074	02-25-2017	02-24-2018			
4	Coaxial Cable	CCIS	N/A	CCIS0086	02-25-2017	02-24-2018			
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			

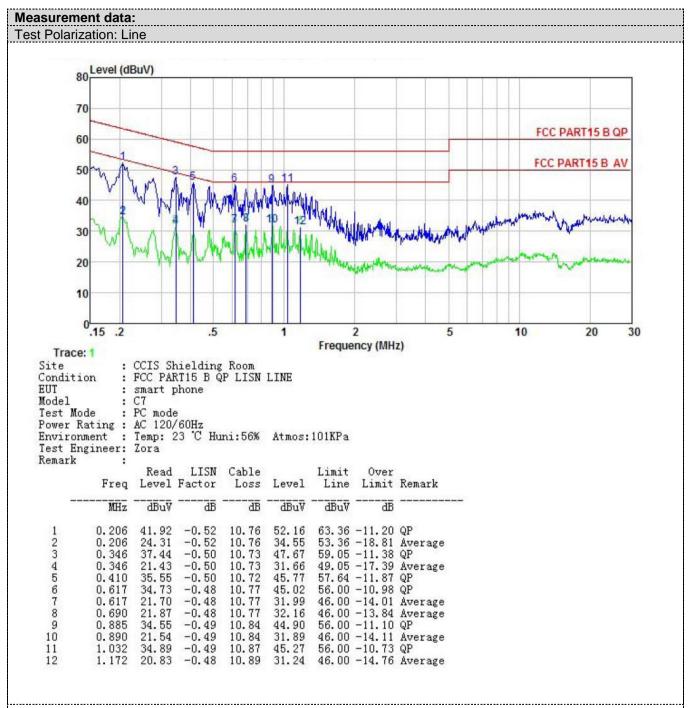


6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10	FCC Part 15 B Section 15.107				
Test Method:	ANSI C63.4:2014	ANSI C63.4:2014				
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz				
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Francisco de (MILE)	Lin	nit (dBµV)			
	Frequency range (MHz)	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	· · ·				
Test setup:	Reference Plan	ne				
	AUX Equipment E.U.T Remark E.U.T Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedance. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fir positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.). bedance for the meal e also connected to ohm/50uH coupling s to the block diagra e checked for maxin and the maximum emid all of the interface	The provide a suring equipment. the main power through impedance with 50ohm am of the test setup and num conducted ission, the relative cables must be changed			
Test environment:	Temp.: 23 °C Hun	nid.: 56%	Press.: 101kPa			
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for detail	ils				
Test results:	Pass					

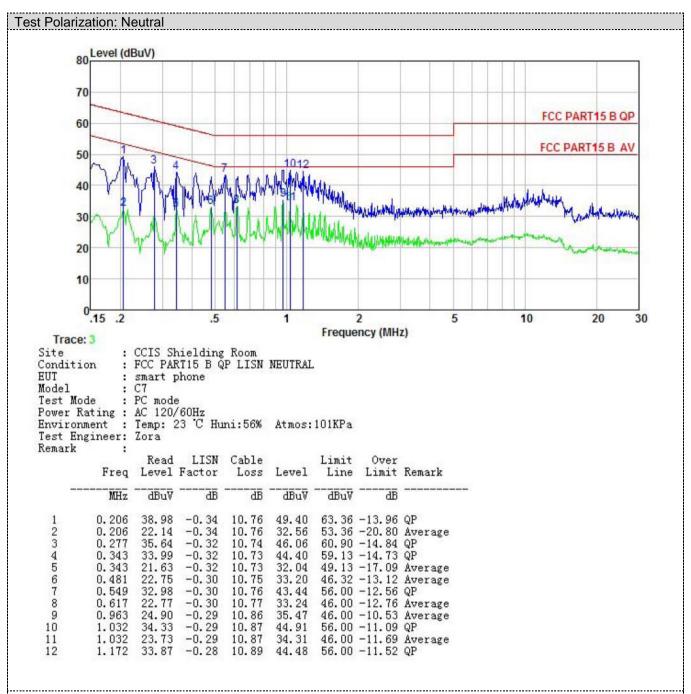




Notes:

- 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.





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

	.2 Natiated Lillission							
Test Requirement:	FCC Part 15 B S	FCC Part 15 B Section 15.109						
Test Method:	ANSI C63.4:2014							
Test Frequency Range:	30MHz to 6000MHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver setup:	Frequency	Dete		RBW	VB۱		Remark	
	30MHz-1GHz	Quasi-		120kHz	300kHz		Quasi-peak Value	
	Above 1GHz	Pea RM		1MHz	3MF		Peak Value	
Limit:	Frequenc			1MHz (dBuV/m @		12	Average Value Remark	
Littiit.	30MHz-88M		LIIIII	40.0	<i>5</i> 3111 <i>)</i>	(Quasi-peak Value	
	88MHz-216N			43.5			Quasi-peak Value	
	216MHz-960			46.0			Quasi-peak Value	
	960MHz-1G			54.0			Quasi-peak Value	
				54.0			Average Value	
	Above 1GI	ĦΖ		74.0			Peak Value	
Test setup:	Below 1GHz Antenna Tower Search Antenna RF Test Receiver							
	Turn Table 0.8	Sm 1m	<u></u>	mma				
	Above 1GHz							
	80CM	E EUT	3m					





Test Procedure:	1. 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.						
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.						
	3. 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.						
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.						
	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	
Test Instruments:	Refer to section 5.7 for details						
Test mode:	Refer to se	Refer to section 5.3 for details					
Test results:	Passed	Passed					
Remark:	All of the o	All of the observed value above 6GHz ware the niose floor , which were no recorded					





