

## Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE170804702

# **FCC REPORT**

(BLE)

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 C Section 15.247

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.

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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<sup>\*</sup> 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:	Ryan.Lee	Date:	09 Jul., 2017	
	Project Engineer			



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## 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Conducted and radiated Spurious Emission	15.205/15.209	Pass

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



### **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
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	0.37 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-3000mAh
AC adapter:	Model: U0D2F0A050150
	Input: AC100-240V, 50/60Hz, 250mA
	Output: DC 5.0V, 1.5A



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2442MHz
The Highest channel	2480MHz



Report No: CCISE170804702

#### 5.3 Test environment and mode

Operating Environment:					
Temperature:	24.2 °C				
Humidity:	54.5 % RH				
Atmospheric Pressure:	1010 mbar				
Test mode:	Test mode:				
Operation mode Keep the EUT in continuous transmitting with modulation					

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. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

### 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)

### 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

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

Tel: +86-755-23118282 Fax: +86-755-23116366 Email: info@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 23118282 Fax: +86 (0) 755 23116366



### 5.7 Test Instruments list

Rad	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	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	02-25-2017	02-24-2018		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	02-25-2017	02-24-2018		
8	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	02-25-2017	02-24-2018		
9	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	02-25-2017	02-24-2018		
10	Loop antenna	Laplace instrument	RF300	EMC0701	02-25-2017	02-24-2018		
11	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
12	Coaxial Cable	N/A	N/A	CCIS0018	02-25-2017	02-24-2018		
13	Coaxial Cable	N/A	N/A	CCIS0020	02-25-2017	02-24-2018		

Con	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	07-22-2014	07-21-2017	
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 Antenna requirement:

Standard requirement: FCC Part 15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

#### E.U.T Antenna:

The BLE antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 0.37 dBi.



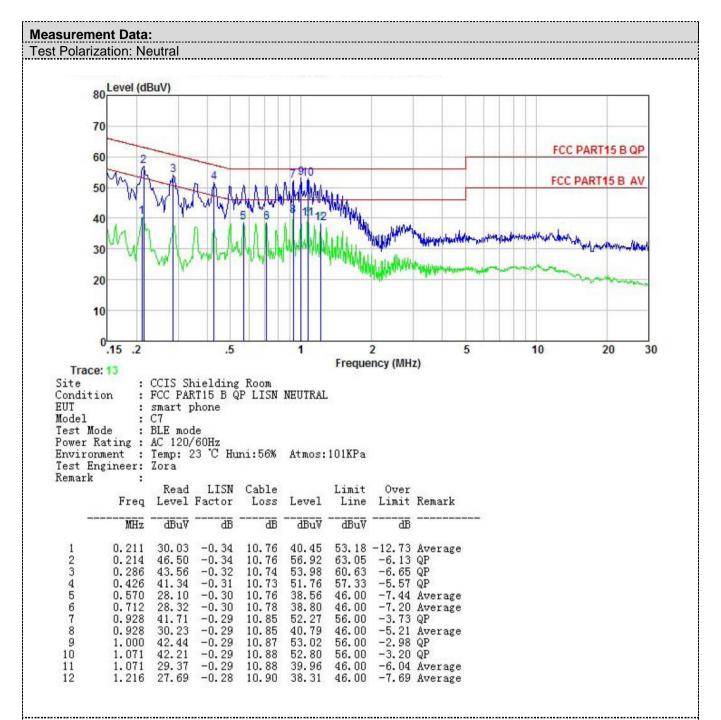




### 6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150 kHz to 30 MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:		Limit	(dBuV)			
Ziiiii.	Frequency range (MHz)	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 logar	ithm of the frequency.				
Test procedure	<ol> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>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.</li> </ol>					
Test setup:	LISN	Ocm 80cm F	ilter — AC power			
	Test table/Insulation plane  Remark  E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for det	tails				
Test results:	Passed					
·	-					

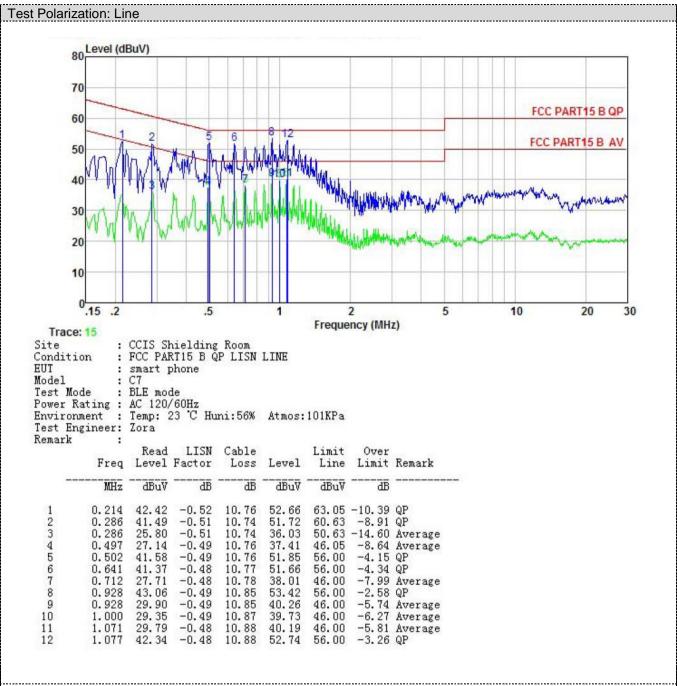




#### Notes:

- 1. An initial pre-scan was performed on the live 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 live 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.



## **6.3 Conducted Output Power**

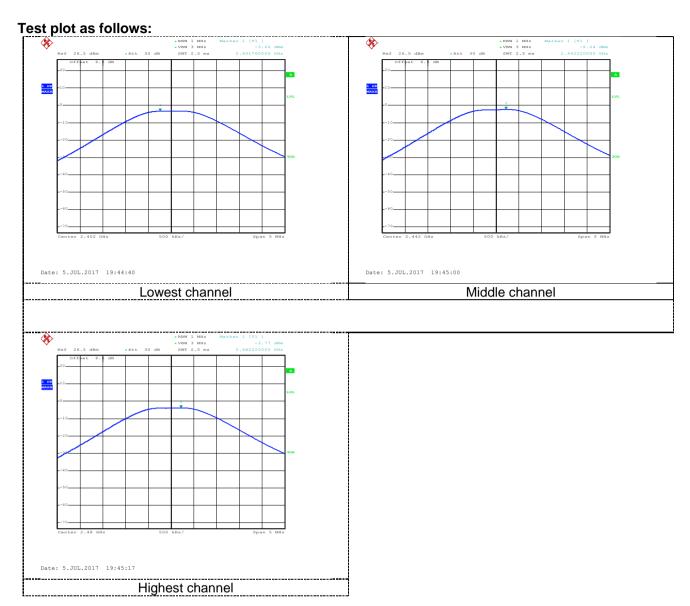
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 9.1.1				
Limit:	30dBm				
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

#### **Measurement Data:**

modeum om om patar			
Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	-3.20		
Middle	-2.24	30.00	Pass
Highest	-3.77		









## 6.4 Occupy Bandwidth

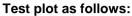
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 8.1				
Limit:	>500kHz				
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

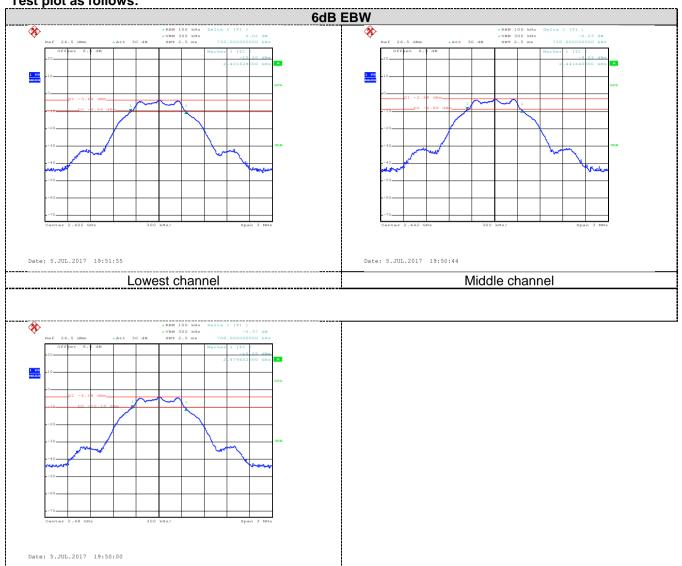
#### **Measurement Data:**

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	0.732			
Middle	0.720	>500	Pass	
Highest	0.708			
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	1.098			
Middle	1.104	N/A	N/A	
Highest	1.104			



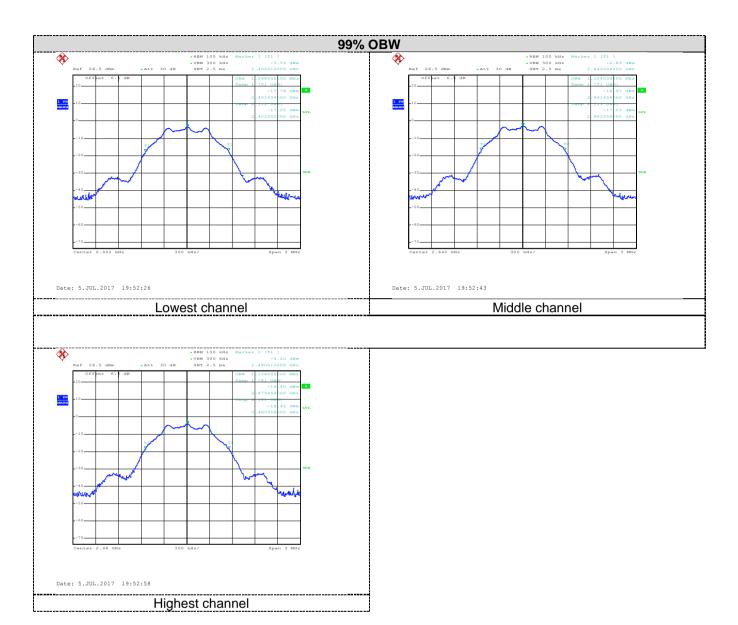






Highest channel







## 6.5 Power Spectral Density

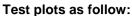
Test Requirement:	FCC Part 15 C Section 15.247 (e)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 10.2				
Limit:	8 dBm				
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

#### **Measurement Data:**

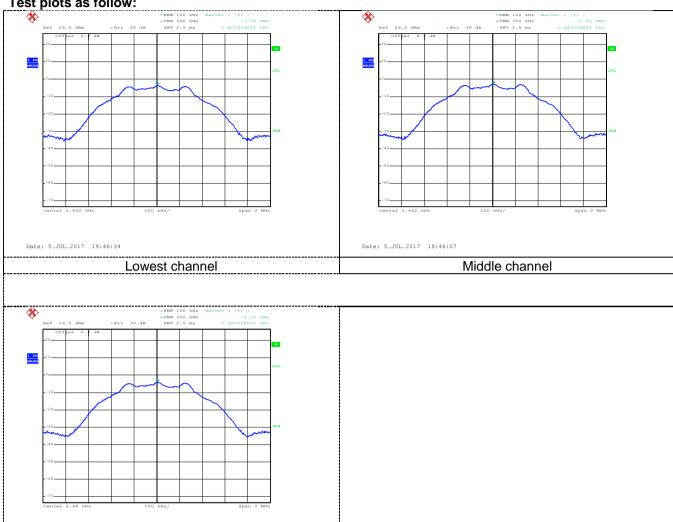
Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result
Lowest	-3.66		
Middle	Middle -2.86		Pass
Highest	-4.20		







Date: 5.JUL.2017 19:45:51



Highest channel



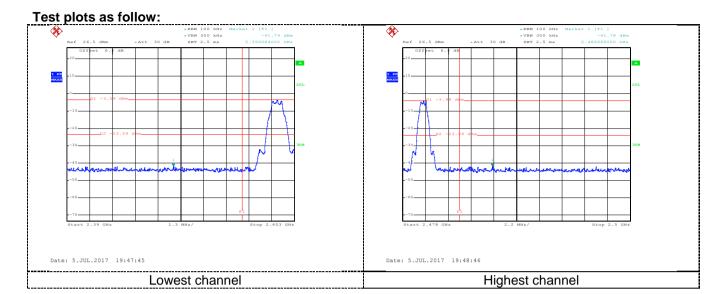
## 6.6 Band Edge

### 6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)				
·	` '				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 13				
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.				
Test setup:					
	Spectrum Analyzer				
	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				







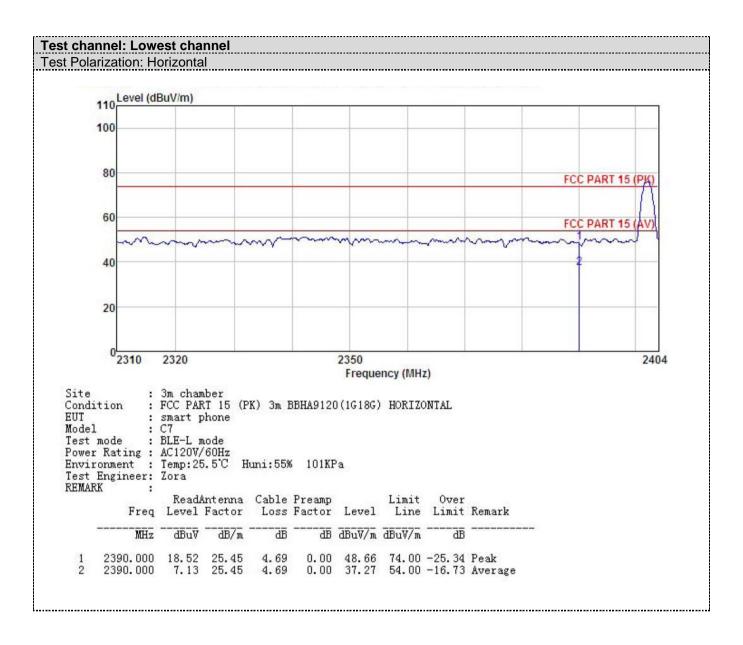


### 6.6.2 Radiated Emission Method

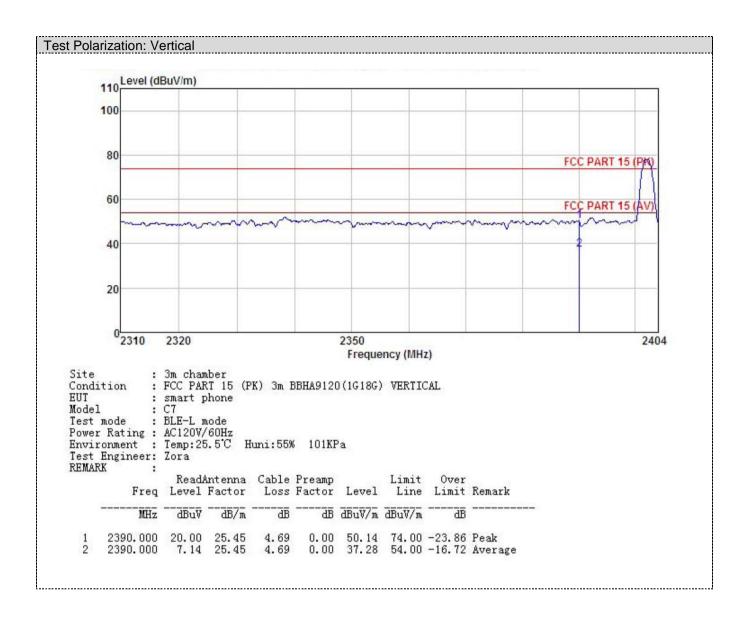
Test Requirement:	FCC Part 15 C	Section 15.2	209 and 15.205			
Test Method:	ANSI C63.10: 2013 and KDB558074 D01 DTS Meas Guidance v04 section 12.1					
Test Frequency Range:	2.3GHz to 2.5GHz					
Test site:	Measurement Distance: 3m					
Receiver setup:	Frequency Detector RBW VBW Remark					
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
		RMS	1MHz	3MHz	Average Value	
Limit:	Frequen	cy L	imit (dBuV/m @3		Remark	
	Above 10	Hz	54.00 74.00	<i>-</i>	Average Value Peak Value	
Test Procedure:	the grount to determ  2. The EUT antenna, tower.  3. The anter the groun Both horiz make the  4. For each case and meters are to find the  5. The test-r Specified  6. If the emist the limit sof the EU have 10 determined	d at a 3 meterine the position was set 3 meterine which was more and height is a d to determine the and the maximum resurements and the rota takes maximum resurements become a support of the pecified, then the maximum resurements and the rota takes and t	n the top of a rotar camber. The tall on of the highest ters away from the bunted on the top varied from one neethe maximum varical polarizations t.  Inission, the EUT nna was tuned from a was tuned from a was tuned from the was turned from the EUT in peak testing could be ported. Otherwis	ble was rota radiation. ne interferent of a variab neter to found value of the s of the anto was arrange of heights from om 0 degree ak Detect Ford Mode. mode was stopped and e the emissione by one	1.5 meters above ated 360 degrees ance-receiving ale-height antenna ar meters above field strength. The enna are set to a set to 360 degrees aunction and and the peak values sions that did not using peak, quasi-	
Test setup:		AE EUT (Turntable)	Hom  3m  Ground Reference Plane est Receiver	Antenna Antenna T	Sower Sower	
Test Instruments:	Refer to sectio	n 5.7 for deta	ils			
Test mode:	Refer to sectio					
Test results:	Passed					
	•					





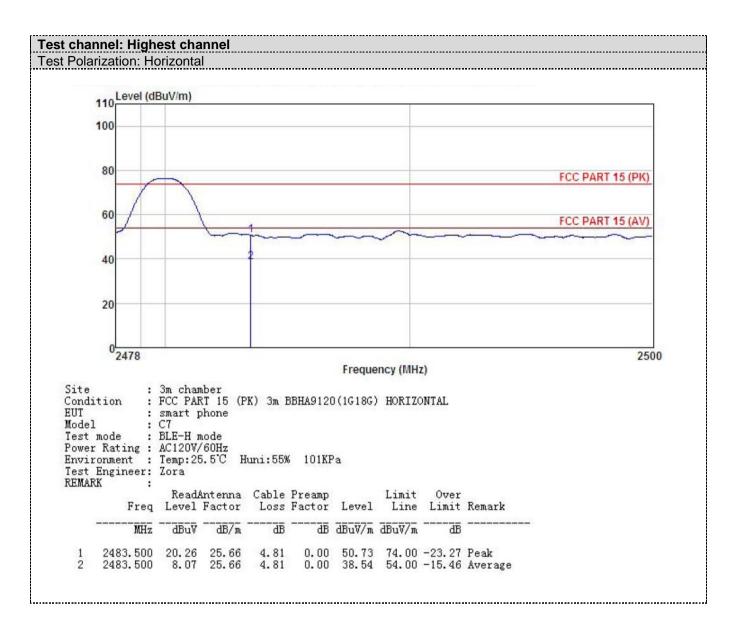




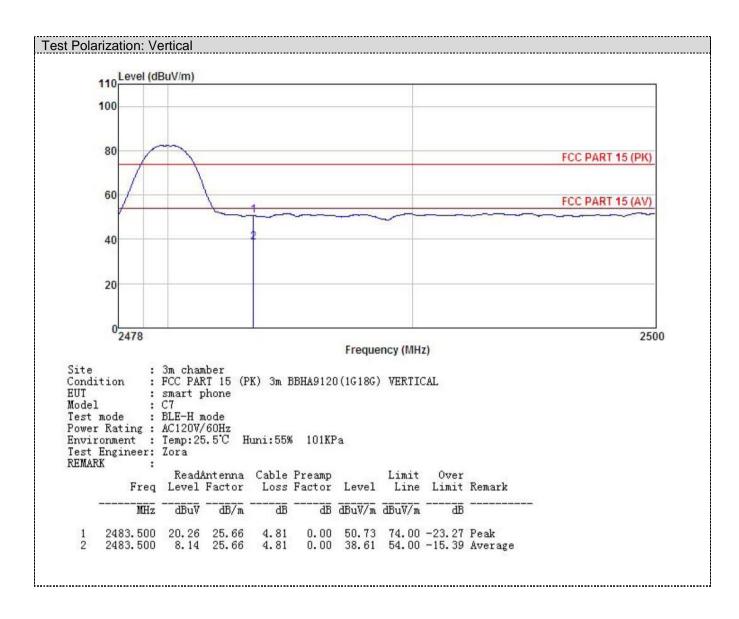














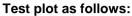
## 6.7 Spurious Emission

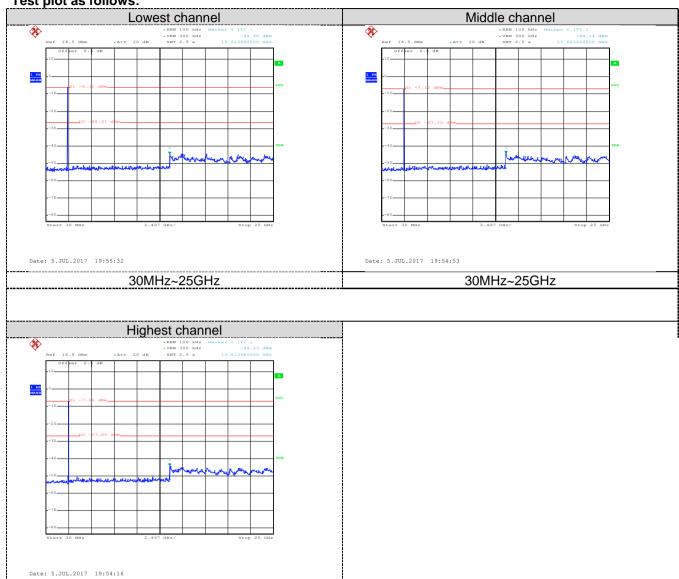
### 6.7.1 Conducted Emission Method

T (D : (	500 B + 45 0 O + i + 45 0 47 ( I)				
Test Requirement:	FCC Part 15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 11				
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.				
Test setup:	Spectrum Analyzer				
	E.U.T				
	Non-Conducted Table				
	Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				









30MHz~25GHz



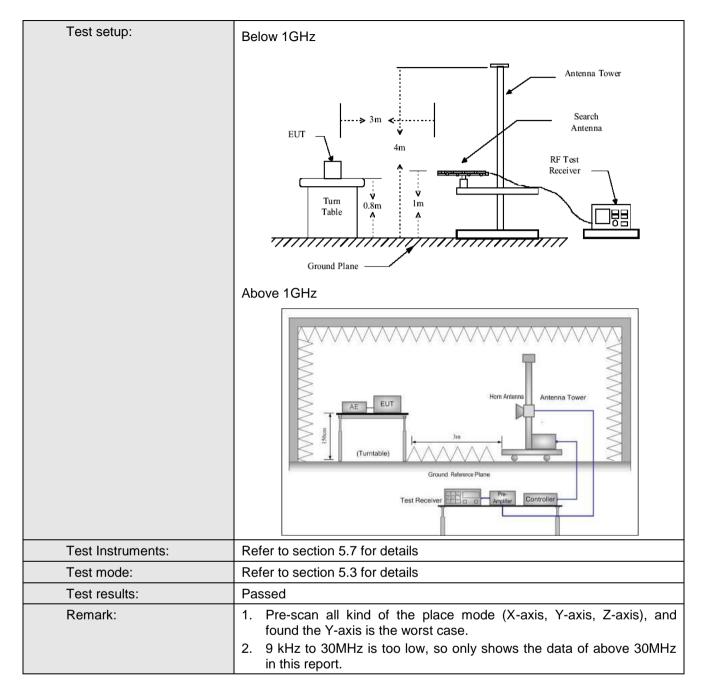


### 6.7.2 Radiated Emission Method

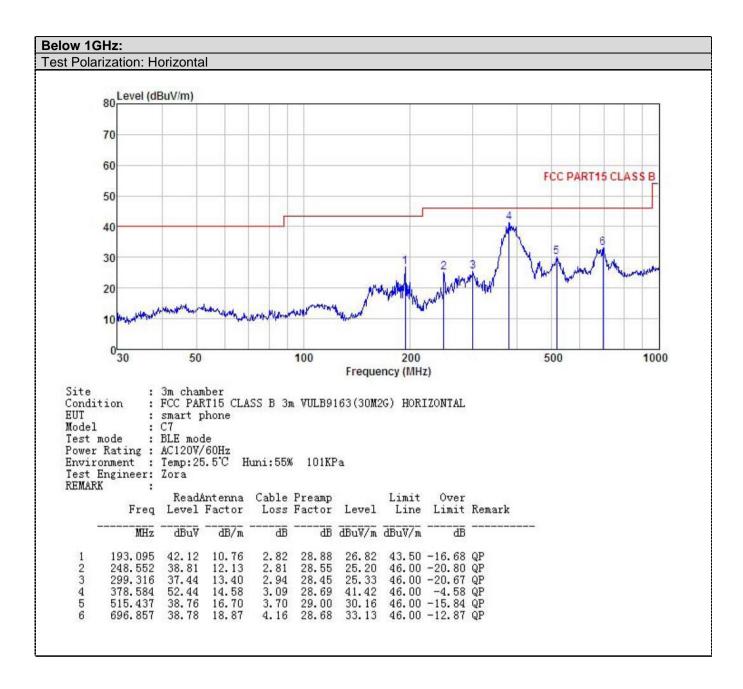
Test Requirement:	FCC Part 15 C Section 15.209 and 15.205						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	9KHz to 25GHz						
Test site:	Measurement D	istance: 3	3m				
Receiver setup:							Remark
·	30MHz-1GHz	Quasi-pe	eak	120KHz	300k	<b>KHz</b>	Quasi-peak Value
	A h a v a 4 C l l =	Peak		1MHz	3M	Hz Peak Value	
	Above 1GHz	RMS		1MHz	3M	Hz	Average Value
Limit:	Frequency	y	Lin	nit (dBuV/m @	3m)		Remark
	30MHz-88M	Hz		40.0		Q	uasi-peak Value
	88MHz-216N	ИHz		43.5		Q	uasi-peak Value
	216MHz-960I	MHz		46.0		Q	uasi-peak Value
	960MHz-1G	Hz		54.0		Quasi-peak Value	
	Abovo 1CHz			54.0		Average Value	
				74.0			Peak Value
Test Procedure:	Above 1GHz 54.0 Average Value						



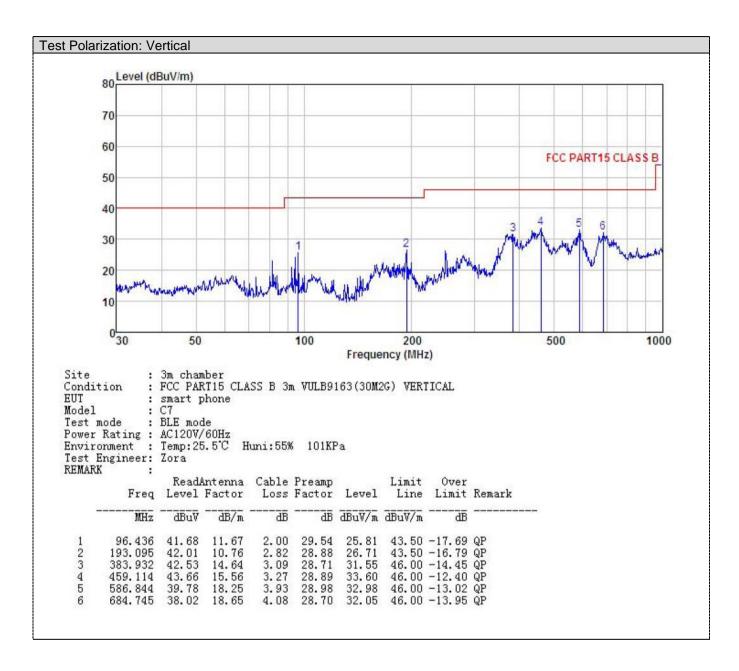














#### **Above 1GHz**

Test channel: Lowest channel								
	Peak Value							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	46.73	35.99	6.80	41.81	47.71	74.00	-26.29	Vertical
4804.00	46.08	35.99	6.80	41.81	47.06	74.00	-26.94	Horizontal
			,	Average Valu	ie			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	37.57	35.99	6.80	41.81	38.55	54.00	-15.45	Vertical
4804.00	37.15	35.99	6.80	41.81	38.13	54.00	-15.87	Horizontal

Test channel: Middle channel												
Peak Value												
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4884.00	45.47	36.38	6.86	41.84	46.87	74.00	-27.13	Vertical				
4884.00	46.62	36.38	6.86	41.84	48.02	74.00	-25.98	Horizontal				
Average Value												
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4884.00	36.74	36.38	6.86	41.84	38.14	54.00	-15.86	Vertical				
4884.00	37.63	36.38	6.86	41.84	39.03	54.00	-14.97	Horizontal				

Test channel: Highest channel												
Peak Value												
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4960.00	46.01	36.71	6.91	41.87	47.76	74.00	-26.24	Vertical				
4960.00	46.62	36.71	6.91	41.87	48.37	74.00	-25.63	Horizontal				
Average Value												
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4960.00	37.11	36.71	6.91	41.87	38.86	54.00	-15.14	Vertical				
4960.00	37.86	36.71	6.91	41.87	39.61	54.00	-14.39	Horizontal				

#### 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.