

Report No: CCISE190902101

FCC REPORT

Applicant: General Procurement, Inc	
Address of Applicant:	800 E Dyer Road Santa Ana, CA 92705 United States
Equipment Under Test (E	EUT)
Product Name:	5.0 inch smartphone
Model No.:	Eternity G50L
Trade mark:	Hyundai
FCC ID:	2AIOHHT1G50L
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	06 Sep., 2019
Date of Test:	07 Sep., to 27 Sep., 2019
Date of report issued:	29 Sep., 2019
Test Result:	PASS *

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

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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2 Version

Version No.	Date	Description
00	29 Sep., 2019	Original

Tested by:

Mike.OU Test Engineer Date:

29 Sep., 2019

Reviewed by:

Winner Thang Date:

Project Engineer

29 Sep., 2019

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4 Test Summary

Test Items	Section in CFR 47	Result
Antenna requirement	15.203 & 15.247 (b)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247 (d)	Pass
Spurious Emission 15.205 & 15.209 Pass		Pass
Remark:	ntial requirements in the standard	
 Pass: The EUT complies with the esse N/A: Not Applicable. The cable insertion loss used by "RF C 	ntial requirements in the standard. Dutput Power" and other conduction measu	rement items is 0.5dB (provided by

the customer). ANSI C63.4-2014 Test Method: ANSI C63.10-2013

:	ANSI C63.10-2013
	KDB 558074 D01 15.247 Meas Guidance v05r02



5 General Information

5.1 Client Information

Applicant:	General Procurement, Inc
Address:	800 E Dyer Road Santa Ana, CA 92705 United States
Manufacturer/ Factory:	Shen Zhen Cheng Fong Digital-Tech Limited
Address:	Building A, ChengFong Industrial Area, Huaxing road, Dalang, Longhua, Shen Zhen, China

5.2 General Description of E.U.T.

Product Name:	5.0 inch smartphone
Model No.:	Eternity G50L
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1.0 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-2300mAh
AC adapter:	Model: K-T50501000U1 Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

cy Channel Iz 30 Iz 31	Frequency 2462MHz 2464MHz
lz 31	
	2464MHz
-	210410112
lz 32	2466MHz
lz 33	2468MHz
lz 34	2470MHz
lz 35	2472MHz
lz 36	2474MHz
lz 37	2476MHz
lz 38	2478MHz
lz 39	2480MHz
	Iz 34 Iz 35 Iz 36 Iz 37 Iz 38

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. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.



5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting 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 Description of Support Units

The EUT has been tested as an independent unit.

5.5 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)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.38 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)

5.6 Additions to, deviations, or exclusions from the method

5.7 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: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

5.8 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

5.9 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	
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A	
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0			

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	07-20-2021
Cable	HP	10503A	N/A	03-18-2019	03-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement:	FCC Part 15 C Section 15.203 /247(b)		
 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(b) (4) requirement: (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. 			
E.U.T Antenna:			
	al antenna which cannot replace by end-user, the best-case gain of the		
	ECISIONELE AND		



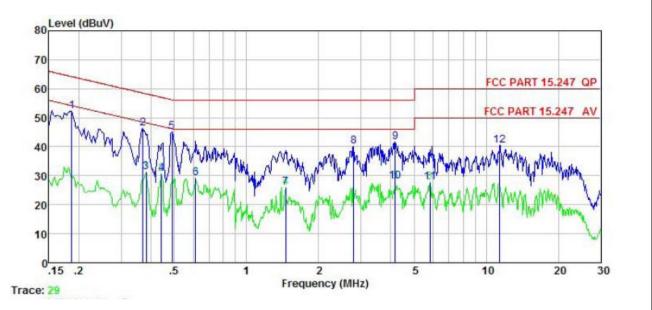
6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15	.207		
Test Frequency Range:	150 kHz to 30 MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:	Frequency range (MHz)	Limit ((dBuV)	
		Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5 5-30	<u> </u>	46	
	5-30 * Decreases with the logar		50	
Test procedure	 The E.U.T and simula line impedance stabili 50ohm/50uH coupling The peripheral device through a LISN that p with 50ohm termination setup and photograph Both sides of A.C. line interference. In order positions of equipment 	tors are connected to the zation network (L.I.S.N.) g impedance for the mea is are also connected to rovides a 50ohm/50uH con. (Please refer to the b	, which provides a suring equipment. the main power coupling impedance lock diagram of the test um conducted ission, the relative cables must be	
Test setup:	LISN 40cm		AC power	
Test Instruments:	Refer to section 5.9 for det	tails		
Test mode:	Refer to section 5.3 for det	tails		
Test results:	Passed			

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Measurement Data:

Test by: Mike Test mode: BLE Tx mode	
Test frequency:150 kHz ~ 30 MHzPhase:Line	
Test voltage: AC 120 V/60 Hz Environment: Temp: 22.5 °C Huni: 8	55%



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∛	āB	āb	dBuV	dBuV	āB	
1	0.186	41.89	-0.42	10.76	52.23	64.20	-11.97	QP
2	0.369	35.84	-0.37	10.73	46.20	58.52	-12.32	QP
3	0.381	20.91	-0.37	10.72	31.26	48.25	-16.99	Average
4	0.442	20.38	-0.38	10.74	30.74	47.02	-16.28	Average
5	0.489	34.94	-0.39	10.76	45.31	56.19	-10.88	QP
1 2 3 4 5 6 7 8 9 10	0.614	18.72	-0.38	10.77	29.11	46.00	-16.89	Average
7	1.456	15.47	-0.40	10.92	25.99	46.00	-20.01	Average
8	2.794	29.67	-0.43	10.93	40.17	56.00	-15.83	QP
9	4.180	31.32	-0.47	10.88	41.73	56.00	-14.27	QP
10	4.180	17.71	-0.47	10.88	28.12	46.00	-17.88	Average
11	5.836	17.28	-0.50	10.83	27.61			Average
12	11.377	30.22	-0.63	10.93	40.52		-19.48	QP

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 nam	ne:	e: 5.0 inch smartphone		Product	model:	Eternity G	350L		
Test by:	t by: Mike		Test mo	Test mode: BLE Tx mod		node			
Test frequer	est frequency: 150 kHz ~ 30 MHz			Phase:		Neutral			
Test voltage	; :	AC 120 V/6	60 Hz		Environ	ment:	Temp: 22	2.5℃ Huni: 5	55%
80	evel (dBuV)		TITT			111			٦
70									_
60							FCO	C PART 15.247 Q	P
00	-							DADT 45 347 A	
50	m	-3	6		9	10	FLL	PART 15.247 A	V
40	Wh	AAAA	rak nak lada	7		a Miller	Anna Annall	Mark June	_
	W	VIANA	LAL MM. MM	ANY MALL	Ahu MNA"	M B. A M	Mallh	A Maldi Allent	
30	ALA		Martin	WAR S CHAN	a cillo	A.A.N	1	halls Mar	5
20	~V	VIIV	TWW	Million .	MAY MAY	MYYY	WWW	(white the second	-
		× 1		Der M	W				
10									Y
0									
	5.2	.5	1		2 ency (MHz)	5	10	20	30
Trace: 31		20							
		D	TON	C-11-		*	A		
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark	
									_
	MHz	dBu∛	dB	dB	dBuV	dBu∛	dB		
1	0.182	41.89	-0.69	10.77	51.97	64.42	-12.45	QP	
1 2 3 4 5	0.442	22.71	-0.64	10.74	32.81			Average	
3	0.486	35.78	-0.65	10.76	45.89		-10.34		
4	0.546	21.13	-0.65	10.76	31.24			Average	
	0.614	20.36	-0.64	10.77	30.49			Average	
6 7	0.731	33.73 31.43	-0.64	10.78	43.87		-12.13		
8	1.449	16.92	-0.65	10.92	27.19			Average	
9	3.346	35.66	-0.68	10.92	45.89		-10.11		
0	4.180	34.71	-0.70	10.88	44.89		-11.11		
	4.180	20.02	-0.70	10.88	30.20			Average	
10	4.100		-0.80	10.93	28.33			Average	
10 11		18.20				00.00	C U I	ALVOL GEO	
10	11.317	18.20	0.00	10.00					
10 11		18.20	0.00	10.00					

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

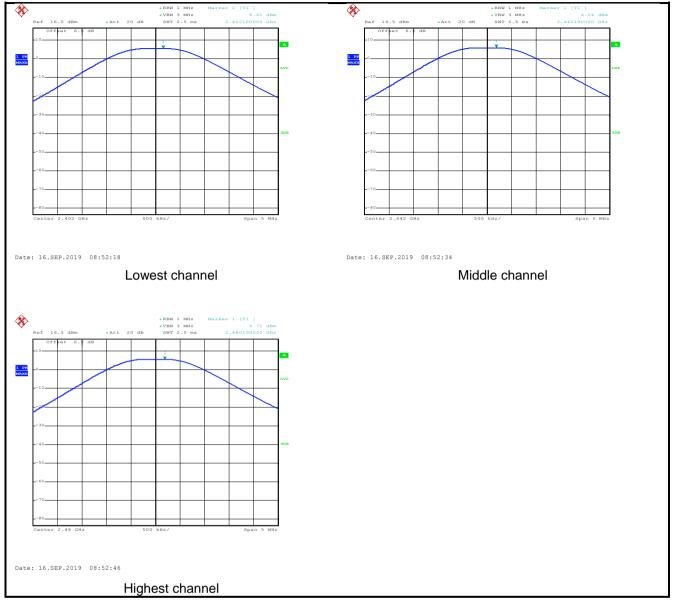
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)	
Limit:	30dBm	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 5.9 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Passed	

Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	5.61		
Middle	6.04	30.00	Pass
Highest	5.71		



Test plot as follows:





6.4 Occupy Bandwidth

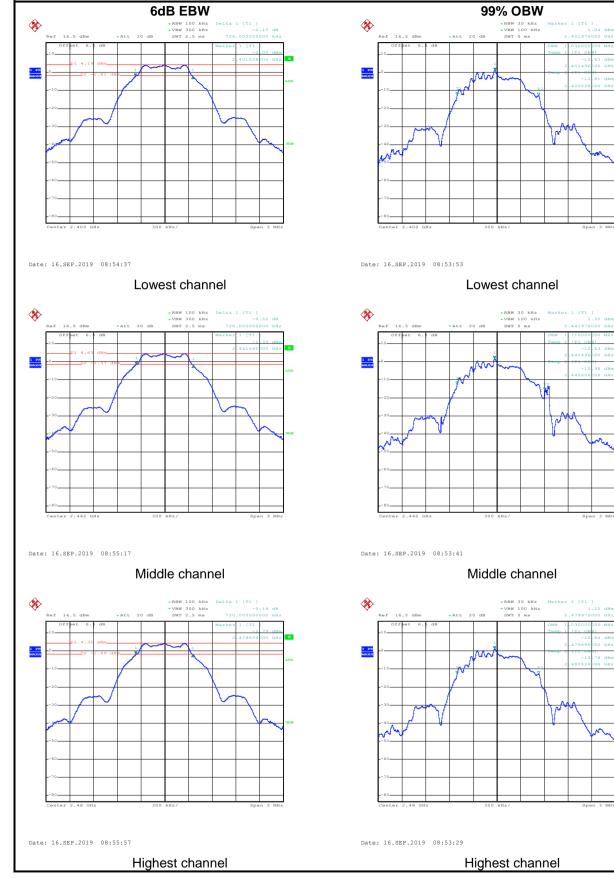
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)	
Limit:	>500kHz	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	Refer to section 5.9 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Passed	

Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result
Lowest	0.726		
Middle	0.720	>500	Pass
Highest	0.720		
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result
Lowest	1.032		
Middle	1.110	N/A	N/A
Highest	1.032		

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Test plot as follows:





6.5 Power Spectral Density

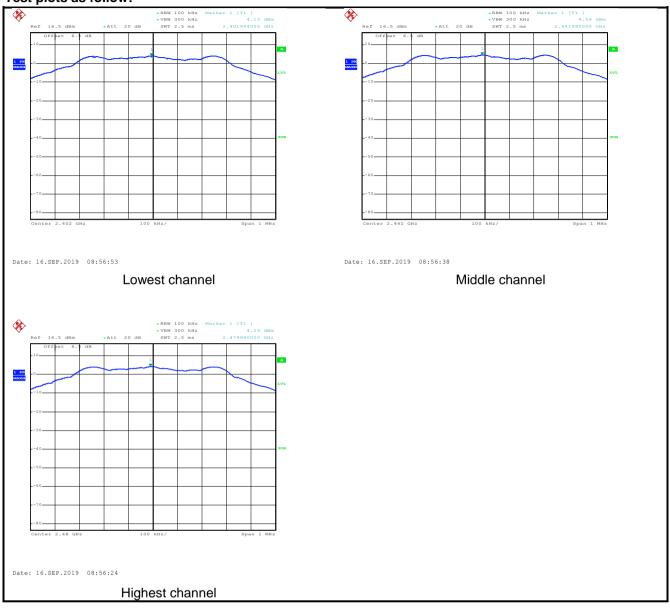
Test Requirement:	FCC Part 15 C Section 15.247 (e)	
Limit:	8 dBm	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table	
	Ground Reference Plane	
Test Instruments:	Refer to section 5.9 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Passed	

Measurement Data:

Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result
Lowest	4.13		
Middle	4.59	8.00	Pass
Highest	4.29		



Test plots as follow:





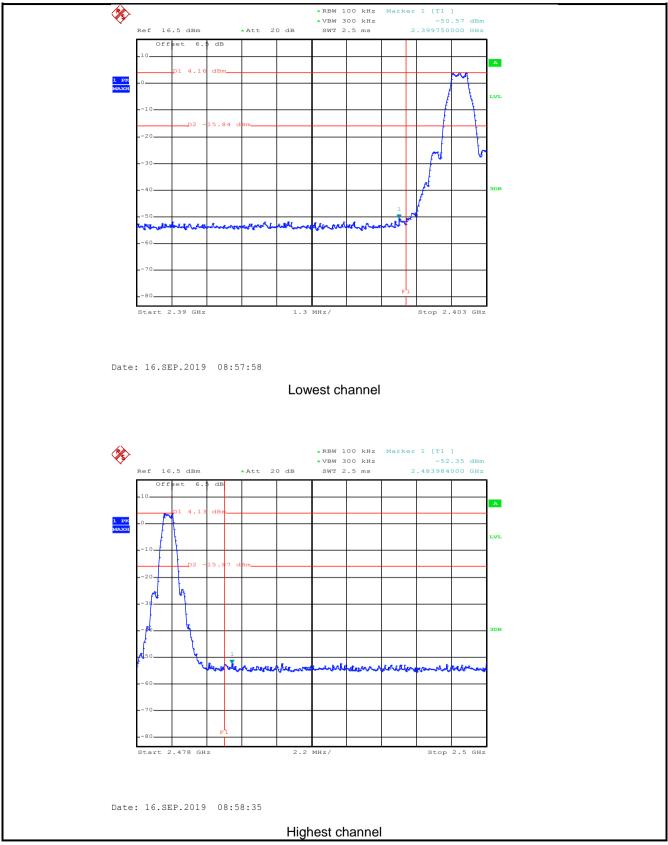
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)	
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 5.9 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Passed	



Test plots as follow:





6.6.2 Radiated Emission Method

6.6.2 F	Radiated Emission I	vietnod						
Tes	st Requirement:	FCC Part 15 C Section 15.205 and 15.209						
Tes	st Frequency Range:	2.3GHz to 2.5	GHz					
Tes	st Distance:	3m						
Red	ceiver setup:	Frequency	Detector		RBW		'BW	Remark
		Above 1GHz	Peak		MHz		MHz	Peak Value
1.500			RMS		MHz SuV/m @3		MHz	Average Value Remark
Lim	lit:	Frequen		,	4.00))))	Δ	verage Value
		Above 10	GHz –		4.00			Peak Value
Tes	st Procedure:	 the groun to determ 2. The EUT antenna, tower. 3. The anter the groun Both horiz make the 4. For each case and meters ar to find the 5. The test-r Specified 6. If the emist the limit s of the EU have 10 c 	d at a 3 meter ine the positi was set 3 meter which was meter and height is d to determination contal and ver measurement suspected en then the anter a maximum re- receiver syster Bandwidth we ssion level of pecified, ther T would be re-	er cambe on of the eters aw ounted of varied fr he the m ertical po nt. mission, enna wa ble was eading. em was s vith Maxi the EU ⁻ n testing eported. buld be re	er. The take highest i ay from the on the top rom one m aximum v larizations the EUT v s tuned to turned fro set to Peak imum Hold C in peak could be Otherwise e-tested o	ble wa radiat ne inte o of a neter value o s of th was a o heig om 0 o ak Det d Mode stopp e the one by	as rotation. erference variable to four of the fine anter arrangee hts from degrees tect Fur de was 10 bed and emission y one us	e-height antenna meters above eld strength. nna are set to d to its worst n 1 meter to 4 s to 360 degrees
Tes	st setup:		urntable)	3m und Reference Plan		Antenna To		
Tes	st Instruments:	Refer to section	on 5.9 for deta	ails				
Tes	st mode:	Refer to section	on 5.3 for deta	ails				
Tes	st results:	Passed						



Name:	5.0 inch s	smartphone)	1	Product M	odel:	Eternity G50L			
:	Mike			Test mode: BLE Tx m			BLE Tx mode			
annel:	Lowest c	hannel			Polarizatio	olarization: Vertical		Vertical		
Itage:	AC 120/6	60Hz		1	Environme	nt:	Temp: 2	Temp: 24°C Huni:		
Level (dBuV/m)							1			
									2	
							F	CC PART 15	(PK)	
									\square	
mm	m	m	m	m	nm	mm	mat	ALAART 45	AV)	
								2		
			0.00					_		
2310 2320					/IHz)				2404	
-	ReadA	Intenna	Cable	Preamp		Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Kemark		
MHz	dBu∛	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
0000 000		07.07	4 . 60	0.00	F7 F0		10 50	D 1		
2390.000	13.03	27.07	4.69	0.00	57.50 46.47	74.00 54.00	-16.50	Average		
	10.00	21101	1.00	0.00	10.11	04.00	1.00	HOOT GEO.		
	annel: Itage: evel (dBuV/m) 2310 2320 Freq Freq MHz 2390.000	Mike annel: Lowest c tage: AC 120/6 Level (dBuV/m) 2310 2320 ReadA Freq ReadA Freq Level MHz dBuV 2390.000 24.06	Mike Annel: Lowest channel AC 120/60Hz Level (dBuV/m) Level (dBuV/m) Carbon Content of the second se	Mike Annel: Lowest channel AC 120/60Hz Level (dBuV/m) Level (dBuV/m) AC 120/60Hz Level (dBuV/m) AC 120/60Hz Comparison of the second se	Mike annel: Lowest channel Itage: AC 120/60Hz .evel (dBuV/m) .evel (dBuV dB/m .evel Factor .evel Factor .evel Factor .mHz .evel Factor .evel Factor .evel Factor .evel Factor	Mike Test mode annel: Lowest channel Polarizatio Itage: AC 120/60Hz Environme .evel (dBuV/m)	Mike Test mode: annel: Lowest channel Polarization: Itage: AC 120/60Hz Environment: .evel (dBuV/m)	Mike Test mode: BLE Tx annel: Lowest channel Polarization: Vertical Itage: AC 120/60Hz Environment: Temp: 2 .evel (dBuV/m)	Mike Test mode: BLE Tx mode annel: Lowest channel Polarization: Vertical Itage: AC 120/60Hz Environment: Temp: 24°C Huni: .evel (dBuV/m)	



l: L	/like .owest chai	nel			at mode:	В	LE Tx mod	le	
	owest chai	nnel					BLE Tx mode Horizontal Temp: 24°C Huni:		
				Pol	arization:	н			
	AC 120/60⊦	łz		Env	/ironment:	Т			
l (dBuV/m)									
								-	
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								1	
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								-	-
2320								-	2404
			Fr	equency (I	MHZ)				
	D 14		a 1 1			• • • •			
Fred								Remark	
rreq	rever	Factor	L033	Factor	rever	Line	LINIC	Newark	
MHz	dBu∛	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
390 000	23 69	27 08	4 69	0 00	57 14	74 00	-16 86	Peak	
								100	
	Freq MHz 390.000	2320 ReadA Freq Level MHz dBuV 390.000 23.69	2320 ReadAntenna Freq Level Factor MHz dBuV dB/m 390.000 23.69 27.08	2320 2320 2320 2320 235 Fr ReadAntenna Cable Freq Level Factor Loss MHz dBuV dB/m dB 390.000 23.69 27.08 4.69	2320 2320 2320 2350 Frequency () ReadAntenna Cable Preamp Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 390.000 23.69 27.08 4.69 0.00	2320 2320 2320 2350 Frequency (MHz) ReadAntenna Cable Preamp Freq Level Factor Loss Factor Level MHz dBuV dB/m dB dB dBuV/m 390.000 23.69 27.08 4.69 0.00 57.14	2320 2320 2320 2350 Frequency (MHz) ReadAntenna Cable Preamp Limit Freq Level Factor Loss Factor Level Line MHz dBuV dB/m dB dB dBuV/m dBuV/m 390.000 23.69 27.08 4.69 0.00 57.14 74.00	2320 2320 2320 2350 Frequency (MHz) ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 390.000 23.69 27.08 4.69 0.00 57.14 74.00 -16.86	FCC PART 15 FC PART 15

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



roduct Name:	5.0 inch s	martphone		P	roduct Mo	del:	Eternity G	50L	
est By:	Mike			т	est mode:		BLE Tx mode		
est Channel:	Highest c	channel Pola			Polarization:		Vertical		
est Voltage:	AC 120/6	0Hz		E	invironmen	nt:	Temp: 24	്ന Huni: 57%	
110 Level (dBuV/n 100 80 60 40 20	n)							PART 15 (PK) PART 15 (AV)	
02478			Free	uency (MH	iz)			2500	
02478			Free	quency (MH	z)			2500	
02478		intenna Factor	Cable	Preamp		Limit Line		2500 Remark	
2478	eq Level	Intenna Factor dB/m	Cable	Preamp Factor		Line	Limit		



	5.0 inch sr	nartphone		Pro	duct Mode	el: Ete	ernity G50L	-			
st By:	Mike			Tes	t mode:	BL	BLE Tx mode				
st Channel:	Highest channel			Pol	Polarization:		Polarization:		Horizontal		
st Voltage:	AC 120/60	Hz		Env	vironment:	Те	mp: 24 ℃	Huni: 57%			
110 Level (dBuV/n 100 80 60 40 20))	12		~~				PART 15 (PK)			
02478			Fre	equency (M	Hz)			250			
02478	Read# Level	Intenna Factor	Cable			Limit Line	Over Limit	250 Remark			
02478	Level	intenna Factor dB/m	Cable	Preamp Factor		Line					



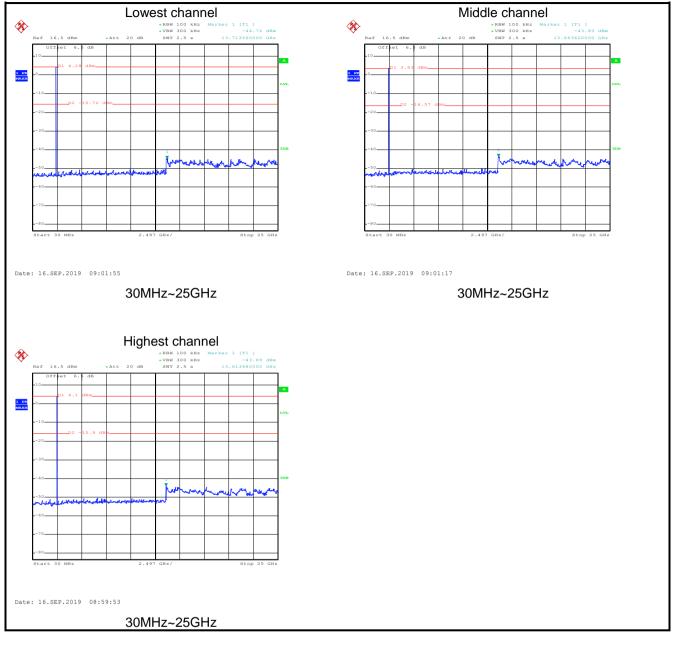
6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)						
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 5.9 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						



Test plot as follows:





6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.205 and 15.209							
Test Frequency Range:	9kHz to 25GHz							
Test Distance:	3m							
Receiver setup:	Frequency Detect		tor RBW		VB	W	Remark	
· · · · · · · · · · · · · · · · · · ·	30MHz-1GHz	Quasi-pea		120KHz	300	KHz	Quasi-peak Value	
		Peak		1MHz	ЗM	Hz	Peak Value	
	Above 1GHz	RMS		1MHz	ЗM	Hz	Average Value	
Limit:	Frequency	/	Lin	nit (dBuV/m @	23m)		Remark	
	30MHz-88M	Hz		40.0			aasi-peak Value	
	88MHz-216N			43.5		G	asi-peak Value	
							uasi-peak Value	
	960MHz-1G	Hz		54.0			uasi-peak Value	
	Above 1GF	lz –		54.0			Average Value	
Test Procedure:				74.0	,		Peak Value table 0.8m(below	
	 highest rad The EUT antenna, w tower. The antenn the ground Both horize make the n For each s case and t meters and to find the n The test-re Specified E If the emiss the limit sp of the EUT have 10 dE 	liation. was set 3 which was n ha height i l to detern ontal and w neasureme suspected hen the ar d the rota ta maximum n eceiver sys Bandwidth w sion level of ecified, the would be B margin wo	3 ma mou is va mine verti ent. em nten cable reac vster with en te e rep vould	eters away inted on the f aried from o the maxim ical polarizat ission, the E ina was turned ing. m was turned ing. m was set Maximum H be EUT in pe esting could b ported. Other d be re-tested	from the top of a ne met um valutions of EUT wated to he from 0 to Pea lold Mo ak moo be stop wise the d one b	ne inte varial er to f tue of f the a as arra eights degre k Def de. de was ped ar ie emis y one	the position of the erference-receiving ble-height antenna four meters above the field strength. antenna are set to anged to its worst from 1 meter to 4 tes to 360 degrees tect Function and a 10 dB lower than nd the peak values ssions that did not using peak, quasi- reported in a data	
Test setup:		3m <				Antenna Search Antenn Test reiver –	I.	



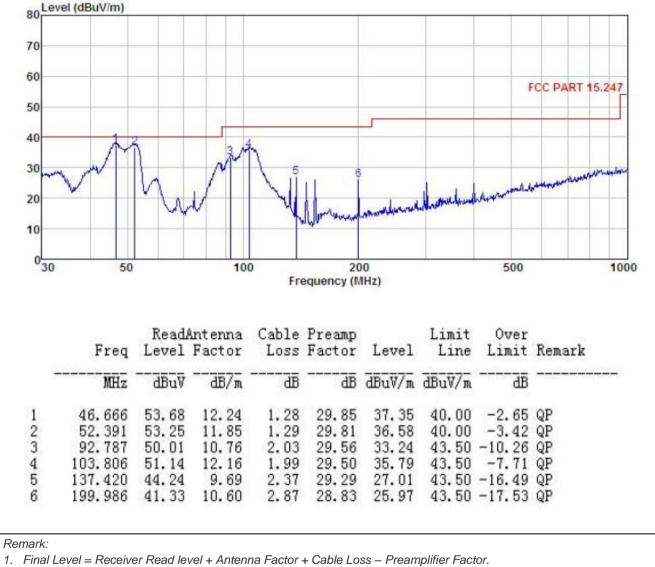
	Horn Artisting Horn Artisting (Turntable) Ground Raference Plane Test Receiver Controller
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.



Measurement Data (worst case):

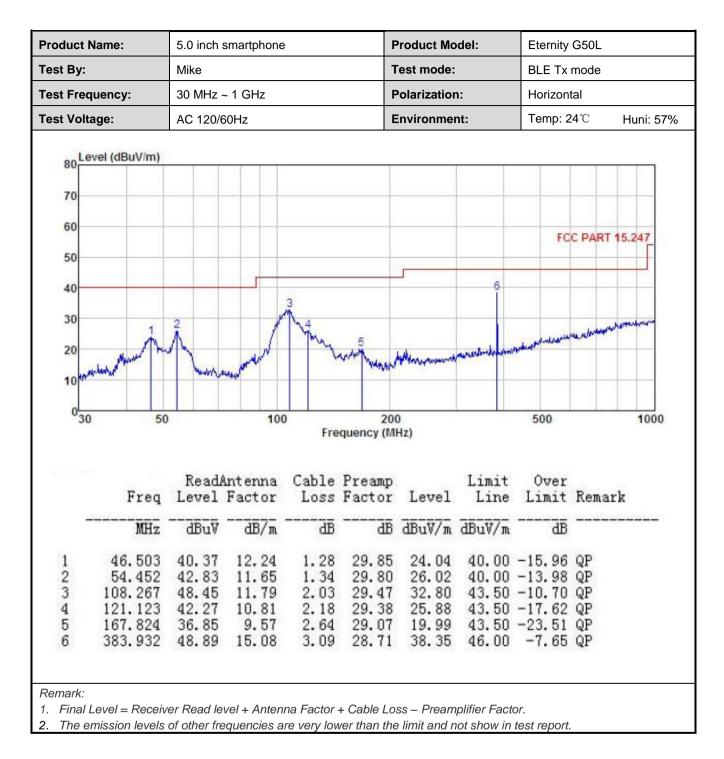
Below 1GHz:

Product Name:	5.0 inch smartphone	Product Model:	Eternity G50L
Test By:	Mike	Test mode:	BLE Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%
80 Level (dBuV/m)			



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







Above 1GHz

			- · ·					
				nannel: Lowe				
		1	De	tector: Peak	k Value	1		-
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	48.69	30.85	6.80	41.81	44.53	74.00	-29.47	Vertical
4804	49.04	30.85	6.80	41.81	44.88	74.00	-29.12	Horizontal
			Dete	ector: Avera	ge 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	40.17	30.85	6.80	41.81	36.01	54	-17.99	Vertical
4804.00	40.32	30.85	6.80	41.81	36.16	54	-17.84	Horizontal
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)		nannel: Midd tector: Peal Preamp Factor (dB)		Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	48.73	31.20	6.86	41.84	44.95	74.00	-29.05	Vertical
4882.00	49.21	31.20	6.86	41.84	45.43	74.00	-28.57	Horizontal
1002100	10121	01120		ector: Average		1 1100	20101	
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
4882.00	38.84	31.20	6.86	41.84	35.06	54.00	-18.94	Vertical
4882.00	39.36	31.20	6.86	41.84	35.58	54.00	-18.42	Horizontal
				annel: High				
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	49.04	31.63	6.91	41.87	45.71	74.00	-28.29	Vertical
4960.00	49.75	31.63	6.91	41.87	46.42	74.00	-27.58	Horizontal
		,		ector: Avera	ge Value			1
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	40.08	31.63	6.91	41.87	36.75	54.00	-17.25	Vertical
4960.00	40.37	31.63	6.91	41.87	37.04	54.00	-16.96	Horizontal
						nplifier Factor. not show in tes	t report.	