

Report No: CCISE190912402

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:	5.7 inch smartphone			
Model No.:	Eternity G57			
Trade mark:	Hyundai			
FCC ID:	2AIOHHT2G57K			
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247			
Date of sample receipt:	09 Sep., 2019			
Date of Test:	10 Sep., to 16 Oct., 2019			
Date of report issued:	17 Oct., 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.

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Version 2

Version No.	Date	Description
00	17 Oct., 2019	Original

Tested by:

lang

17 Oct., 2019

Test Engineer

Date:

17 Oct., 2019

Reviewed by:

Winner thang Date:

Project Engineer

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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			
 <i>Remark:</i> 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable. 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by 					

the customer).

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

ANSI C63.4-2014



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:	5.7 inch smartphone
Model No.:	Eternity G57
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	0.36 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V, 2750mAh
AC adapter:	Model: K-T50501000U1 Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 1A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel							
Channel Frequency Chann			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
Notes							

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 No

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	١	/ersion: 6.110919	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	07-21-2019	07-20-2020		
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 responsible party shall be us antenna that uses a unique so that a broken antenna ca electrical connector is prohib 15.247(b) (4) requirement: (4) The conducted output po antennas with directional ga section, if transmitting anten power from the intentional radi	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit n be replaced by the user, but the use of a standard antenna jack or bited. ower limit specified in paragraph (b) of this section is based on the use of ins that do not exceed 6 dBi. Except as shown in paragraph (c) of this nas of directional gain greater than 6 dBi are used, the conducted output adiator shall be reduced below the stated values in paragraphs (b)(1), ion, as appropriate, by the amount in dB that the directional gain of the
E.U.T Antenna:	
The BLE antenna is an Interna is 0.36 dBi.	al antenna which cannot replace by end-user, the best-case gain of the



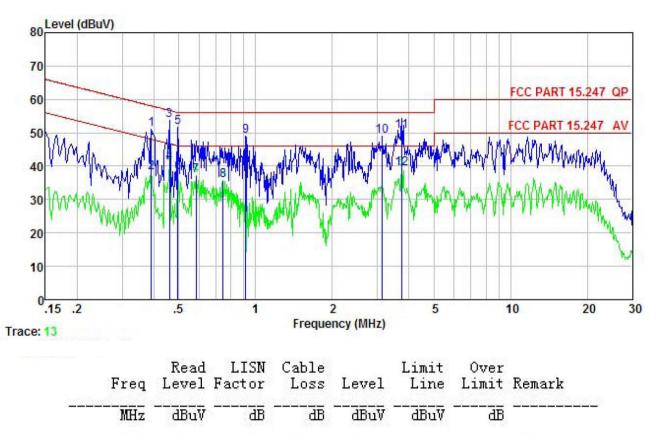
6.2 Conducted Emission

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	56	46	
	5-30	60	50	
Test procedure	 * Decreases with the logarithm of the frequency. 1. 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. 2. 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). 3. 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 setup:	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:

Product name:	5.7 inch smartphone	Product model:	Eternity G57
Test by:	Mike	Test mode:	BLE Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



Notes:

1

23456

7

8

9

10

11 12

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.

0.389

0.389

0.459

0.459

0.497

0.497

0.585

0.747

0.914

3.140

3.740

3.740

40.77

27.83

43.26

30.81

41.19

27.81

26.91

25.29

38.69

38.42

39.93

28.84

-0.37

-0.37

-0.38

-0.38

-0.39

-0.39

-0.39

-0.38

-0.38

-0.44

-0.46

-0.46

10.72

10.72

10.74

10.74

10.76

10.76

10.76

10.79

10.84

10.91

10.90

10.90

51.12

38.18

53.62

41.17

51.56

38.18

37.28

35.70

49.15

48.89

50.37

39.28

58.08

48.08

56.71

46.71

56.05

46.05

46.00

46.00

56.00

56.00

56.00

46.00

-6.96 QP

-3.09 QP

-4.49 QP

-6.85 QP

-7.11 QP

-5.63 QP

-9.90 Average

-5.54 Average

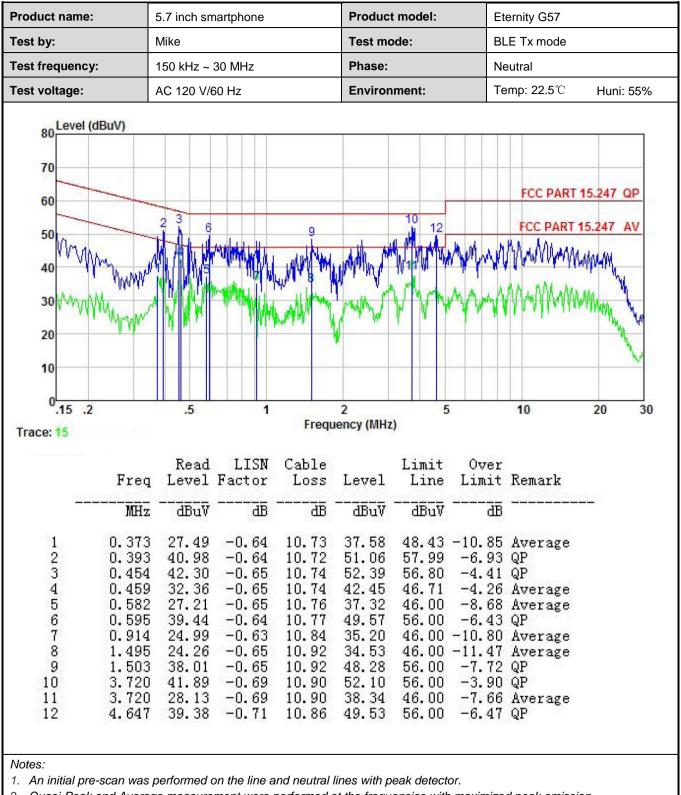
-7.87 Average

-8.72 Average

-6.72 Average

-10.30 Average





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

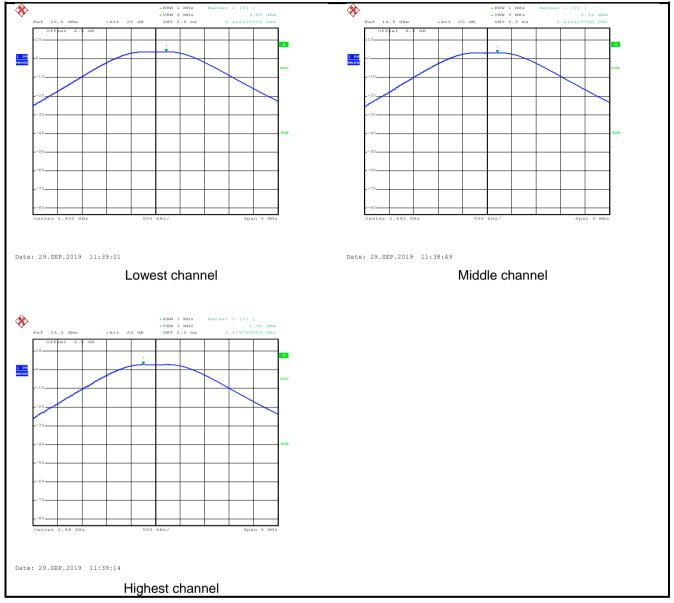
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)		
Limit:	30dBm		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.9 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	3.85		
Middle	3.34	30.00	Pass
Highest	2.90		



Test plot as follows:





6.4 Occupy Bandwidth

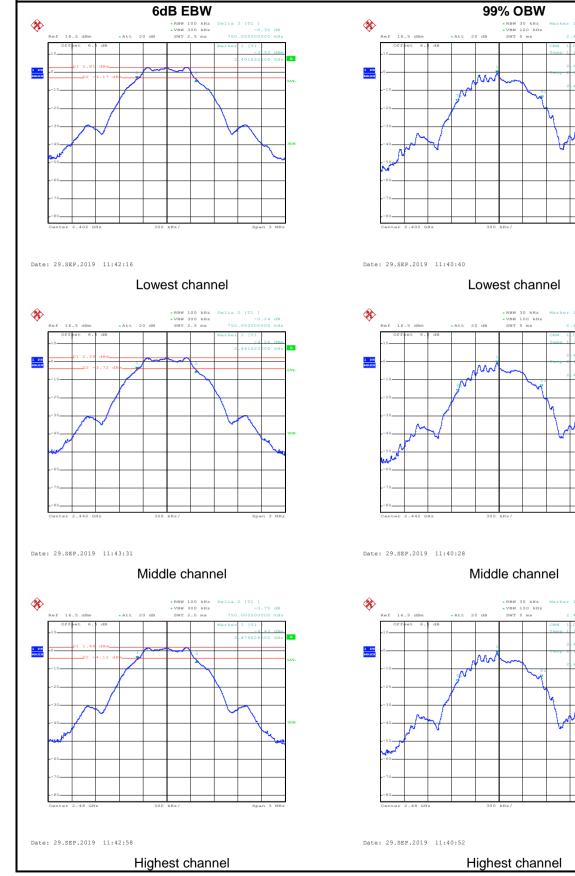
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)		
Limit:	>500kHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.9 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	0.750			
Middle	0.750	>500	Pass	
Highest	0.750			
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	1.074			
Middle	1.062	N/A	N/A	
Highest	1.062			

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Test plot as follows:



4



6.5 Power Spectral Density

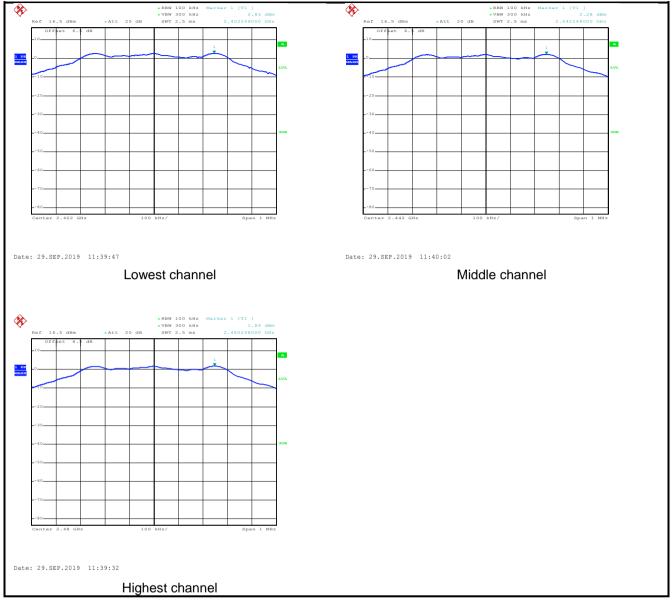
Test Requirement:	FCC Part 15 C Section 15.247 (e)		
Limit:	8 dBm		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.9 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Data:

Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result
Lowest	2.83		
Middle	2.28	8.00	Pass
Highest	1.89		



Test plots as follow:





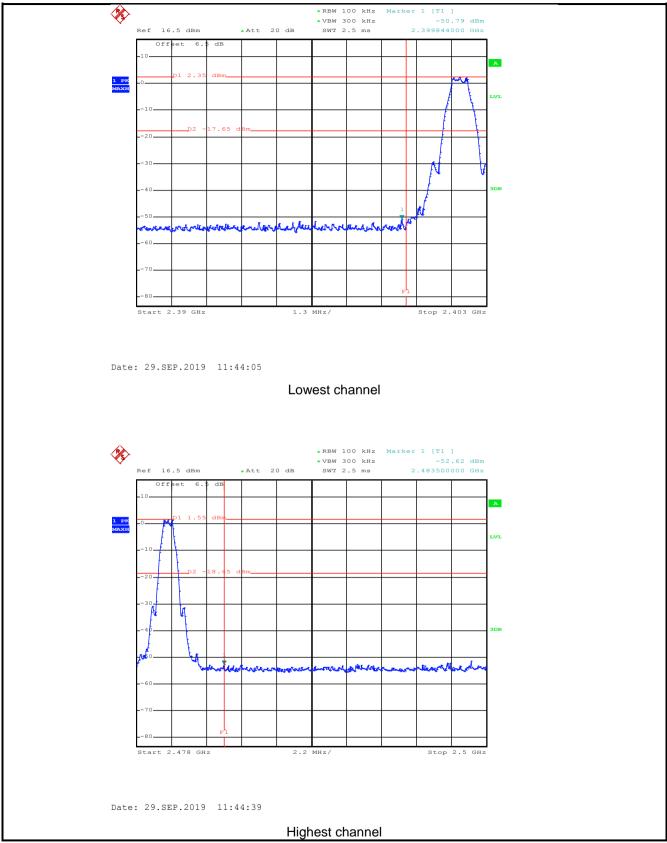
6.6 Band Edge

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 Radiated Emission	Method					
Test Requirement:	FCC Part 15 C	FCC Part 15 C Section 15.205 and 15.209				
Test Frequency Range:	2.3GHz to 2.5GHz					
Test Distance:	3m					
Receiver setup:	Frequency	Detector	or RBW		Remark	
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
		RMS	1MHz	3MHz	Average Value	
Limit:	Frequer		imit (dBuV/m @: 54.00		Remark	
	Above 10	GHz –	74.00		Average Value Peak Value	
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter 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. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 dB 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 10 dB 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 setup:		LEUT urntable) Grou Test Receiver	Horn Antenna am d Reference Plane	Antenna Tower		
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					



Product Name:	duct Name: 5.7 inch smartphone				Product Mo	odel:	Eternity	G57	
est By:	Mike	Mike Test mode: BLE Tx mode					mode		
Fest Channel:	Lowest ch	vest channel Polarization: Vertical							
Fest Voltage:	AC 120/6	OHz		E	Environme	nt:	Temp: 24℃ Huni: 57		
110 Level (dBuV/m)									
and the second se									
100									
80								Δ	
80							FCC PA	ART 15 (PK)	
60		A							
	mm	men of	man s			v	FGCP4	HT-15 (AV)	
40									
20									
0 2310 2320			2350		14 h s.	4.5		2404	
			Freque	ency (MHz)					
				_		-			
Fr	Kead <i>l</i> eq Level	Intenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark	
	Hz dBuV	<u>teriherenteret</u>	<u>d</u> B		dBuV/m	and the second	<u>d</u> B		
		1000					See. S	x	
1 2390.0 2 2390.0		27.07 27.07	4.69 4.69				-17.64	Peak Average	
Remark:									
 Final Level = Reco The emission leve 									



Product Nam	ne: 5	· · ·				Model:	Et	ernity G57		
est By:	Ν					Test mode:			1	
Test Channe	l: L	Lowest channel			Polarization:			orizontal		
Fest Voltage	: A	C 120/60H	z		Environ	ment:	Te	Temp: 24°C Huni: 5		
110 Level (dBuV/m)									
andrew .	abarniy									
100										
									Δ	
80				_				FCC	PART 15 (PK)	
60										
00 mm	m	mm	June			V	m	per	PART 15 (AV)	
40										
10										
20										
02310	2320			2350					2404	
2310	2320				iency (MHz	:)			2404	
			Antenna				Limit		525 23	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
_	MHz	dBu∛	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
	2390.000	24.39	27.08	4.69	0.00	57.84	74.00	-16.16	Peak	
2	2390.000	13.22	27.08	4.69	0.00	46.67	54.00	-7.33	Average	
Remark:										
	el = Receiver sion levels of					-		st report		



Product Name:	5.	7 inch si	martphone		P	roduct Mo	del:	Eternity G57			
est By:	М	ike			Т	Test mode: Polarization:		BLE Tx m	ode		
est Channel:	н	ighest ch	nannel		P			Vertical			Vertical Temp: 24°C Huni: 57
est Voltage:	A	C 120/60)Hz		E	nvironmen	ıt:				
110 Level (dBuV/ 100 80 60 40	(m)	-1-2	~~~~						ART 15 (PK) ART 15 (AV)		
20											
20 0 2478				Frequ	ency (MHz)				250	0	
02478	req 1	Read/ Level	Antenna Factor	Cable	Preamp		Limit Line	Over Limit		0	
0 0 2478 F	req 1	Read/ Level dBuV	Antenna Factor dB/m	Cable	Preamp Factor		Line	Limit		0	



est By:	· · · · · · · · · · · · · · · · · · ·				Proc	luct Mode	l:	Eternity	G57	
				Mike Test mode:		BLE Tx	BLE Tx mode			
est Channel:		Highest ch	nannel		Pola	Polarization:			al	
est Voltage:		AC 120/60)Hz		Envi	ronment:		Temp: 24°C Huni: 57		luni: 57%
110 Level (dE 100 80 60 40 20 0 2478		2		Fr	equency (I	//////////////////////////////////////			FCC PART 1	
							•	0.000		
	Freq	Read# Level	Intenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark	
	Freq MHz	Read/ Level dBuV	Intenna Factor 	Cable Loss dB	Factor	Level dBuV/m	Line		Remark	



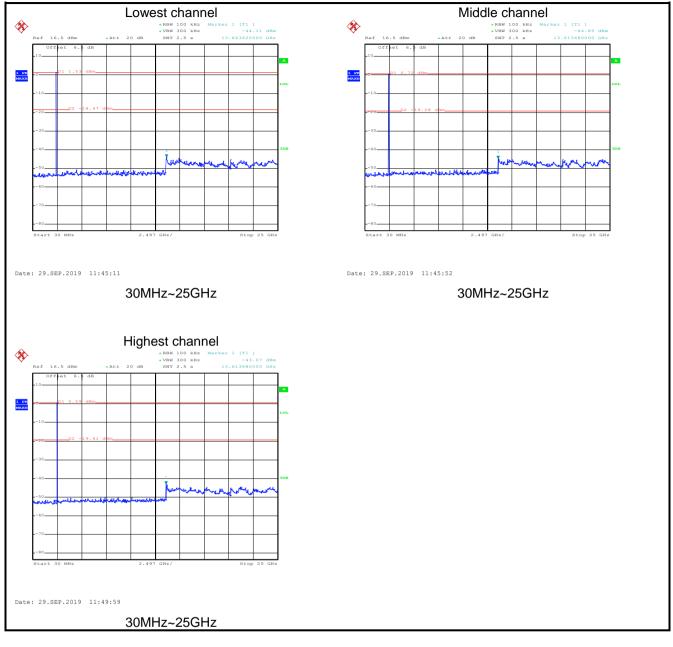
6.7 Spurious Emission

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 sp spectrum intentional radiator is operating, the radio frequency power is produced by the intentional radiator shall be at least 20 dB below th the 100 kHz bandwidth within the band that contains the highest lev the desired power, based on either an RF conducted or a radii 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	Detector		RBW	VB	W	Remark	
·····	30MHz-1GHz Quasi-		eak 120KHz		300KHz		Quasi-peak Value	
	Above 1GHz Pea RMS				ЗM	Hz	Peak Value	
			6 1MHz		ЗM	Hz	Average Value	
Limit:	Frequency	/	Limit	(dBuV/m @	3m)		Remark	
	30MHz-88M	Hz		40.0		G	uasi-peak Value	
	88MHz-216N	1Hz		43.5			asi-peak Value	
	216MHz-960			46.0			asi-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 hich was m ha height is to determ ontal and v neasuremen suspected of hen the an the rota ta maximum re eceiver sys Bandwidth w sion level o ecified, then would be B margin wo	meter nounter s varie hine th vertica nt. emiss tenna able w eading stem vith M stem of the l n testi report	ers away f ed on the t ied from of he maximu al polarizat sion, the E a was tuned g. was set f faximum H EUT in pe ting could b rted. Other pe re-tested	from the op of a ne met um valuions of EUT was do to he from 0 to Pea old Mo ak moo be stop wise the d one b	er to f ue of the a as arra eights degre k Def de. de was ped ar e 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 des 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:		4m 4m 0.8m 1m	. 			Antenna Search Antenn Test eiver –	I.	



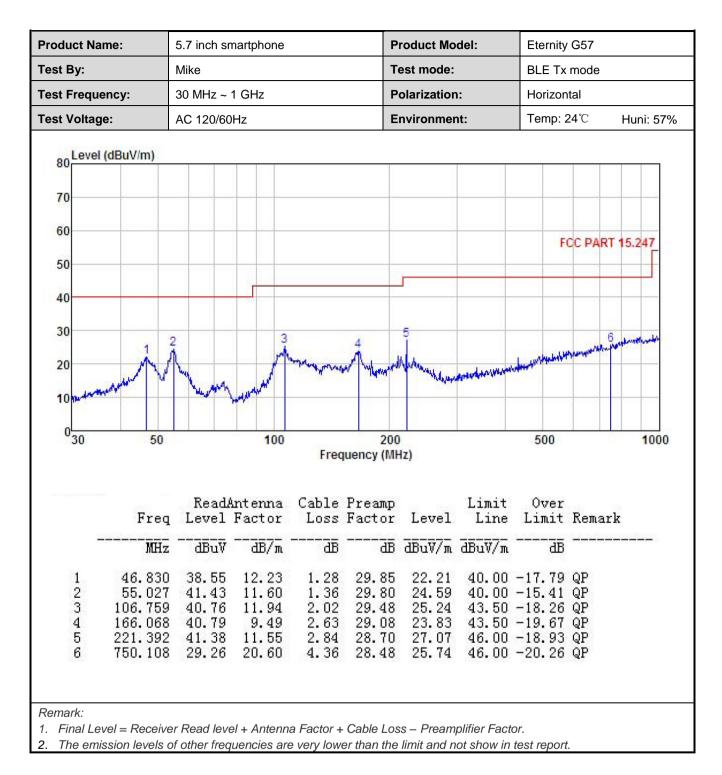
	Horn Antenna Tower Horn Antenna Tower Ground Reference Plane Test Receiver
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.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



Measurement Data (worst case):

	duct Name: 5.7 inch smartphone					oduct Mode	el:	Eternity G57				
Test By:		Mike Test mode:			BLE Tx m	ode						
Test Frequer	ncy:	y: 30 MHz ~ 1 GHz Polarization:				Vertical			Vertical			
Test Voltage	:	AC 120/60I	Hz		Env	vironment:		Temp: 24°C Huni:			ni: 579	
Level (d	RuV/m)											
80	ibu v/m)											
70								_	_			
0.00												
60								FCC	PART	15.2	47	
50			_								-	
40												
40	12											
30	ment 1		3 100	5						um	WAR	
myserial		ma la	A Marine	1	1225		1.2 65	an Inthe M	hy Marry	M Basel		
20		Johl	Pro h	4.111	Al an	2.2. T. S. C. T. C.	1	Harris Contraction		-		
20		Mar		A ALANY	Mymme	othernhampha	manderpartin	Martin Contraction of the Contra				
20		Why			Mumm	otherstand	andersterreiten	Martin I.				
10		When	100			othercharmen	en filleseven the					
	50	When	100	Freque	200 ency (MHz)		en filtes over the	500			1000	
10	50	Ma			200 ency (MHz)		and the second					
10			Antenna	Cable	200 ency (MHz) Preamp	1	Limit	500 Over				
10	Freq	Level	Antenna Factor	Cable Loss	200 ency (MHz) Preamp Factor	Level	Limit Line	500 Over Limit	Кел			
10			Antenna	Cable	200 ency (MHz) Preamp Factor	1	Limit Line	500 Over Limit	Кел			
10 0 30 	Freq MHz 46.830	Level 	Antenna Factor B/m 12.23	Cable Loss dB 1.28	200 ency (MHz) Preamp Factor dB 29.85	Level dBuV/m 36.58	Limit Line dBuV/m 40.00	500 Over Limit 	Ren QP			
10 0 30 	Freq MHz 46.830 52.391	Level dBuV 52.92 51.73	Antenna Factor dB/m 12.23 11.85	Cable Loss dB 1.28 1.29	200 ency (MHz) Preamp Factor dB 29.85 29.81	Level dBuV/m 36.58 35.06	Limit Line dBuV/m 40.00 40.00	500 Over Limit -3.42 -4.94	Ren QP QP			
10 0 30 	Freq MHz 46.830 52.391 95.093	Level 	Antenna Factor dB/m 12.23 11.85 11.39	Cable Loss dB 1.28 1.29 2.01	200 ency (MHz) Preamp Factor dB 29.85 29.81 29.55	Level dBuV/m 36.58 35.06 26.47	Limit Line dBuV/m 40.00 40.00 43.50	500 Over Limit -3.42 -4.94 -17.03	Ren QP QP QP			
10 0 30 	Freq MHz 46.830 52.391	Level dBuV 52.92 51.73	Antenna Factor dB/m 12.23 11.85	Cable Loss dB 1.28 1.29	200 ency (MHz) Preamp Factor dB 29.85 29.81 29.55 29.53	Level dBuV/m 36.58 35.06 26.47	Limit Line dBuV/m 40.00 40.00 43.50 43.50 43.50	500 Over Limit -3.42 -4.94	Ren QP QP QP QP QP			







Above 1GHz

			Test ch	annel: Low	est channel			
				tector: Peak				
Frequency (MHz)	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit	Polarization
4804.00	(dBuV) 51.15	(dB/m) 30.85	(dB) 6.80	(dB) 41.81	46.99	74.00	(dB) -27.01	Vertical
4804.00	50.33	30.85	6.80	41.81	46.99	74.00	-27.01	Horizontal
4004.00	50.55	50.05		ector: Average		74.00	-21.00	Honzontai
	Read	Antenna	Cable	Preamp			Over	
Frequency (MHz)	Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Limit (dB)	Polarization
4804.00	39.63	30.85	6.80	41.81	35.47	54.00	-18.53	Vertical
4804.00	40.59	30.85	6.80	41.81	36.43	54.00	-17.57	Horizontal
			Test cł	nannel: Mido	lle channel			
			De	tector: 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	51.25	31.20	6.86	41.84	47.47	74.00	-26.53	Vertical
4884.00	52.49	31.20	6.86	41.84	48.71	74.00	-25.29	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
4884.00	39.63	31.20	6.86	41.84	35.85	54.00	-18.15	Vertical
4884.00	40.15	31.20	6.86	41.84	36.37	54.00	-17.63	Horizontal
				annel: High tector: Peak				
_	Read	Antenna	Cable	Preamp			Over	
Frequency (MHz)	Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Limit (dB)	Polarization
4960.00	52.15	31.63	6.91	41.87	48.82	74.00	-25.18	Vertical
4960.00	51.77	31.63	6.91	41.87	48.44	74.00	-25.56	Horizontal
		1		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	42.25	31.63	6.91	41.87	38.92	54.00	-15.08	Vertical
4960.00	42.59	31.63	6.91	41.87	39.26	54.00	-14.74	Horizontal
		r Read level + f other freque				nplifier Factor. not show in test	t report.	