

FCC REPORT

Applicant: General Procurement, Inc

Address of Applicant: 800 E. Dyer Road, Santa Ana, California, United States

Equipment Under Test (EUT)

Product Name: Smart Phone

Model No.: Eternity H67

FCC ID: 2AQ7MH25568K

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 15 Sep., 2018

Date of Test: 15 Sep., to 25 Oct., 2018

Date of report issued: 25 Oct., 2018

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	25 Oct., 2018	<p><i>This report was amended on FCC ID: 2AQ7MH25568K follow FCC Class II Permissive Change.</i></p> <p><i>The differences between them as below: Model number, Battery, Antenna welding board and removed the Fingerprint Identification. Base on the differences description, all the EMC were re-tested.</i></p>

Tested by:

Test Engineer

Date:

25 Oct., 2018

Reviewed by:

Project Engineer

Date:

25 Oct., 2018

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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

Remark:
Pass: The EUT complies with the essential requirements in the standard.
N/A: The EUT not applicable of the test item.

5 General Information

5.1 Client Information

Applicant:	General Procurement, Inc
Address of Applicant:	800 E. Dyer Road, Santa Ana, California, United States
Manufacturer:	SHENZHEN HENG DA INFINITE COMMUNICATION EQUIPMENTS LIMITED
Address:	Rm 1301 Block D, Tian An Cloud Park Building 3rd, Bantian Street, Longgang District, Shenzhen. P. R. C.
Factory:	HUIZHOU HENG DA INFINITE COMMUNICATION EQUIPMENTS LIMITED
Address:	The Second Floor B01 No.15 Wanli Industrial Zone, Gan Po Hang, Huiyang Town, Huizhou

5.2 General Description of E.U.T.

Product Name:	Smart Phone
Model No.:	Eternity H67
Power supply:	Rechargeable Li-ion Battery DC3.8V, 2300mAh
AC adapter :	Model: HJ-0501000E1-US Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

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

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)

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
LENOVO	Laptop	SL510	2847A65	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Laboratory Facility

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

● **FCC - Registration No.: 727551**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

● **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.

● **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: <https://portal.a2la.org/scopepdf/4346-01.pdf>

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

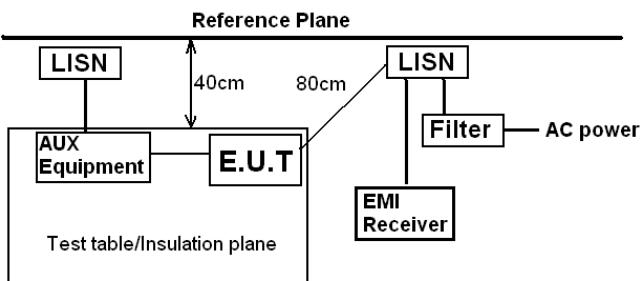
5.9 Test Instruments list

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	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2017	11-20-2018
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2017	11-20-2018
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019

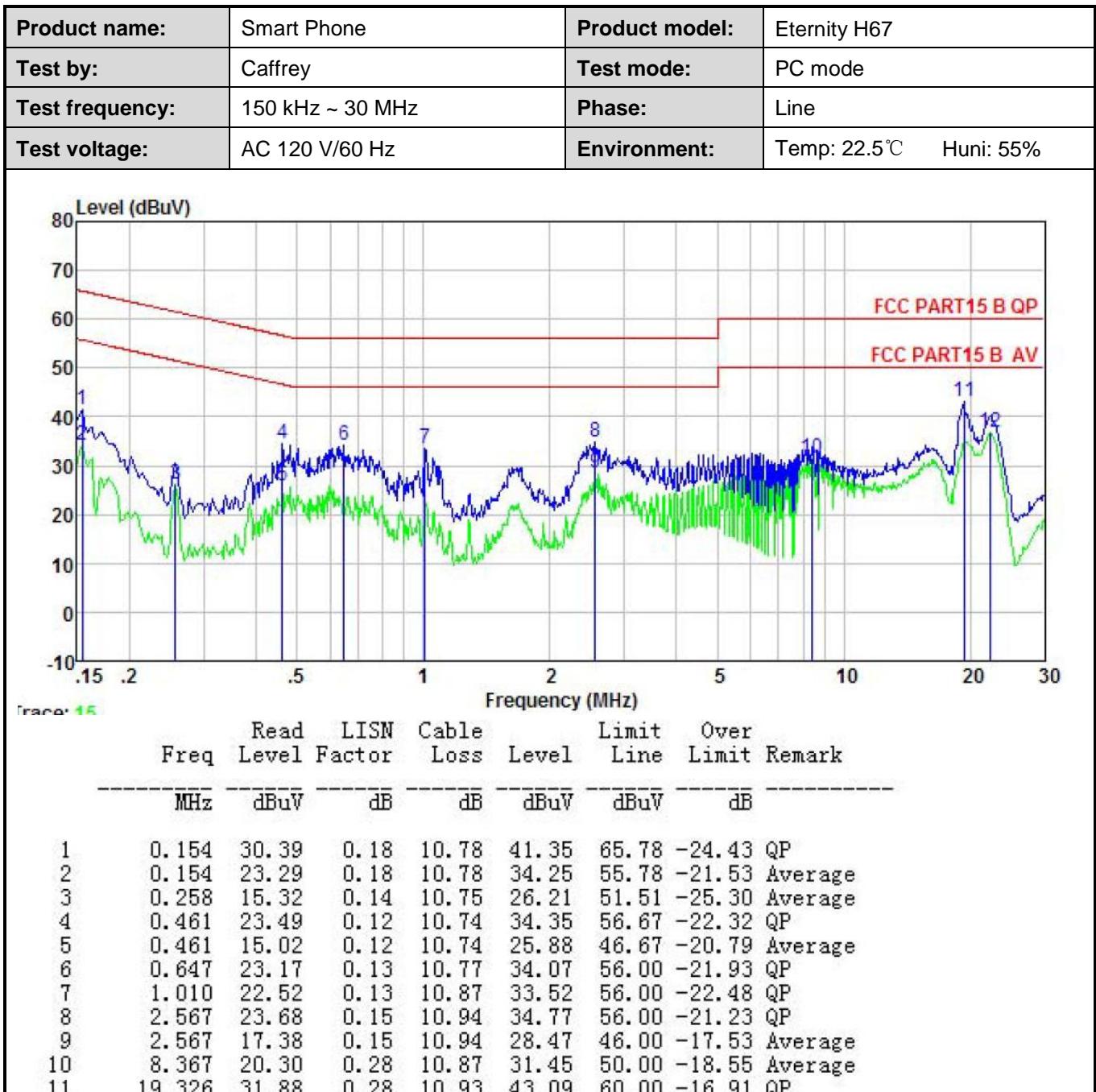
Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		

6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107																			
Test Method:	ANSI C63.4:2014																			
Test Frequency Range:	150kHz to 30MHz																			
Class / Severity:	Class B																			
Receiver setup:	RBW=9kHz, VBW=30kHz																			
Limit:	<table border="1"> <tr> <th>Frequency range (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th></th> <th>Quasi-peak</th> <th>Average</th> </tr> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>0.5-30</td> <td>60</td> <td>50</td> </tr> </table>	Frequency range (MHz)	Limit (dB μ V)			Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	0.5-30	60	50	* Decreases with the logarithm of the frequency.			
Frequency range (MHz)	Limit (dB μ V)																			
	Quasi-peak	Average																		
0.15-0.5	66 to 56*	56 to 46*																		
0.5-5	56	46																		
0.5-30	60	50																		
Test setup:	 <p>Reference Plane</p> <p>LISN</p> <p>AUX Equipment</p> <p>E.U.T</p> <p>Test table/Insulation plane</p> <p>EMI Receiver</p> <p>Filter</p> <p>AC power</p> <p>40cm</p> <p>80cm</p> <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>																			
Test procedure					<ol style="list-style-type: none"> The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). They provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 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 environment:	Temp.:	23 °C	Humid.:	56%	Press.:	101kPa														
Test Instruments:	Refer to section 5.9 for details																			
Test mode:	Refer to section 5.3 for details																			
Test results:	Pass																			

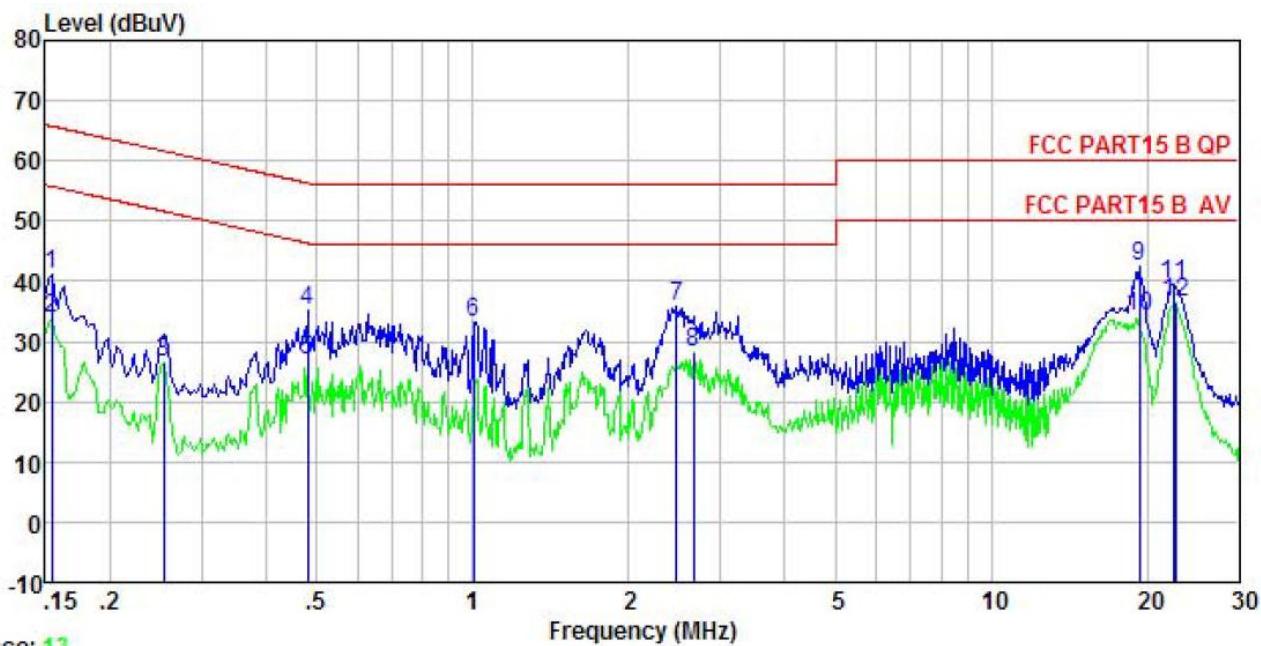
Measurement data:



Notes:

- An initial pre-scan was performed on the line and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	Smart Phone	Product model:	Eternity H67
Test by:	Caffrey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%



Freq	Read Level MHz	LISN Factor	Cable Loss	Limit Level dBuV	Over Line Limit dB		Remark
					Limit Line dBuV	Over Limit dB	
1	0.154	29.55	0.98	10.78	41.31	65.78	-24.47 QP
2	0.154	22.16	0.98	10.78	33.92	55.78	-21.86 Average
3	0.253	14.73	0.95	10.75	26.43	51.64	-25.21 Average
4	0.481	23.48	0.97	10.75	35.20	56.32	-21.12 QP
5	0.481	15.11	0.97	10.75	26.83	46.32	-19.49 Average
6	1.005	21.44	0.97	10.87	33.28	56.00	-22.72 QP
7	2.474	24.03	0.99	10.94	35.96	56.00	-20.04 QP
8	2.664	16.20	0.99	10.93	28.12	46.00	-17.88 Average
9	19.326	30.96	0.71	10.93	42.60	60.00	-17.40 QP
10	19.326	22.49	0.71	10.93	34.13	50.00	-15.87 Average
11	22.416	27.89	0.68	10.90	39.47	60.00	-20.53 QP
12	22.655	24.81	0.68	10.90	36.39	50.00	-13.61 Average

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

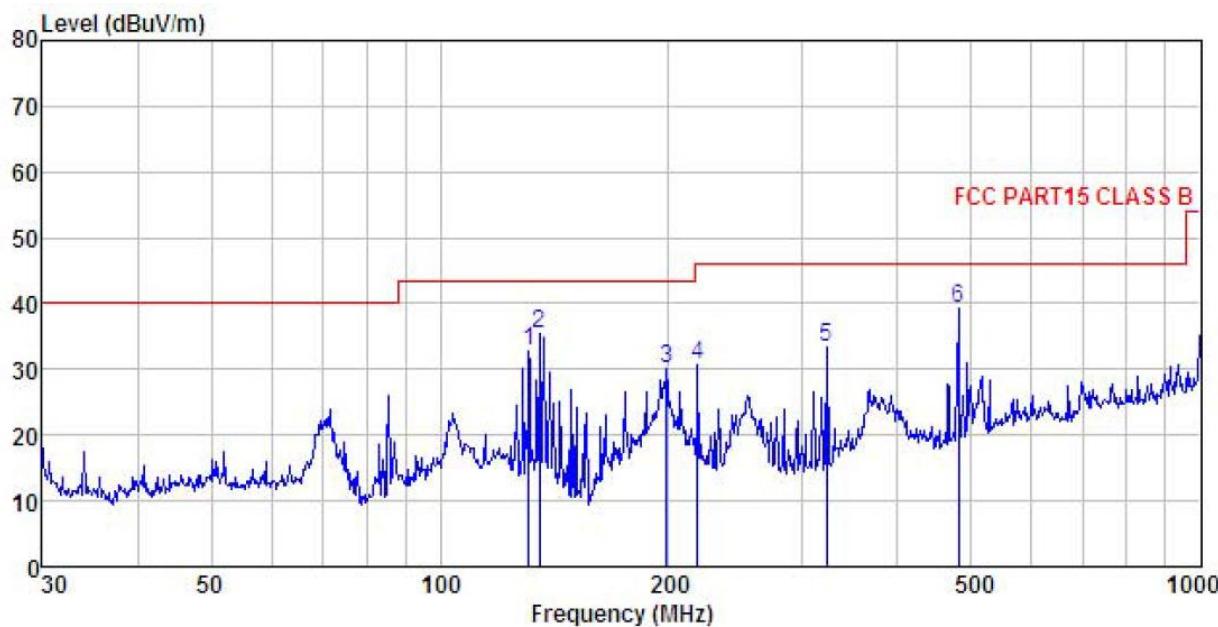
Test Requirement:	FCC Part 15 B Section 15.109								
Test Method:	ANSI C63.4:2014								
Test Frequency Range:	30MHz to 6000MHz								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
Limit:	RMS	1MHz	3MHz	Average Value					
	Frequency	Limit (dB _V /m @3m)		Remark					
	30MHz-88MHz	40.0		Quasi-peak Value					
	88MHz-216MHz	43.5		Quasi-peak Value					
	216MHz-960MHz	46.0		Quasi-peak Value					
	960MHz-1GHz	54.0		Quasi-peak Value					
Test setup:	Above 1GHz	54.0		Average Value					
		74.0		Peak Value					
Below 1GHz									
Above 1GHz									

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 chamber. 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 5.9 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					
Remark:	All of the observed value above 6GHz were the noise floor , which were no recorded					

Measurement Data:

Below 1GHz:

Product Name:	Smart Phone	Product model:	Eternity H67
Test By:	Caffrey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

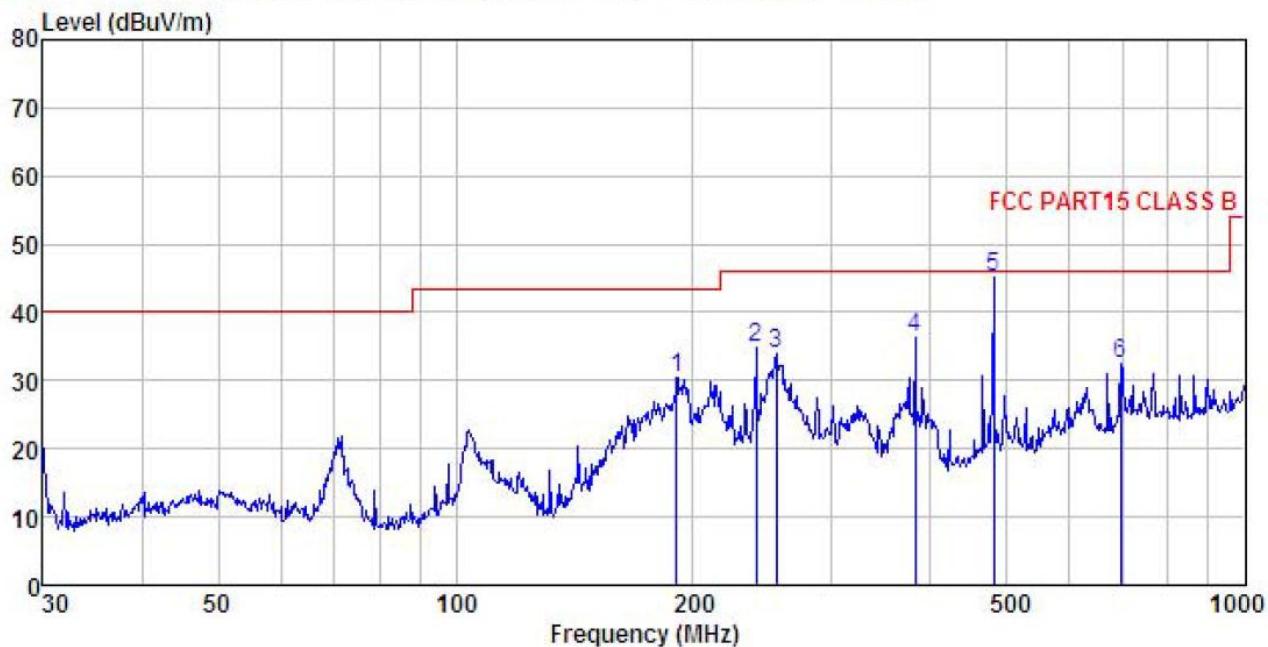


Freq	Read Freq MHz	Antenna Level dBuV	Antenna Factor dB/m	Cable Loss Factor dB	Preamplifier Factor dB	Line Level dBuV/m	Line Limit dBuV/m	Over Line Limit dB	Remark
1	130.837	51.07	8.65	2.29	29.32	32.69	43.50	-10.81	QP
2	135.032	54.06	8.39	2.34	29.30	35.49	43.50	-8.01	QP
3	198.588	44.57	11.46	2.86	28.84	30.05	43.50	-13.45	QP
4	218.309	44.36	12.21	2.85	28.72	30.70	46.00	-15.30	QP
5	322.189	44.85	14.06	3.01	28.50	33.42	46.00	-12.58	QP
6	480.528	47.74	16.97	3.46	28.92	39.25	46.00	-6.75	QP

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.

Product Name:	Smart Phone	Product model:	Eternity H67
Test By:	Caffrey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



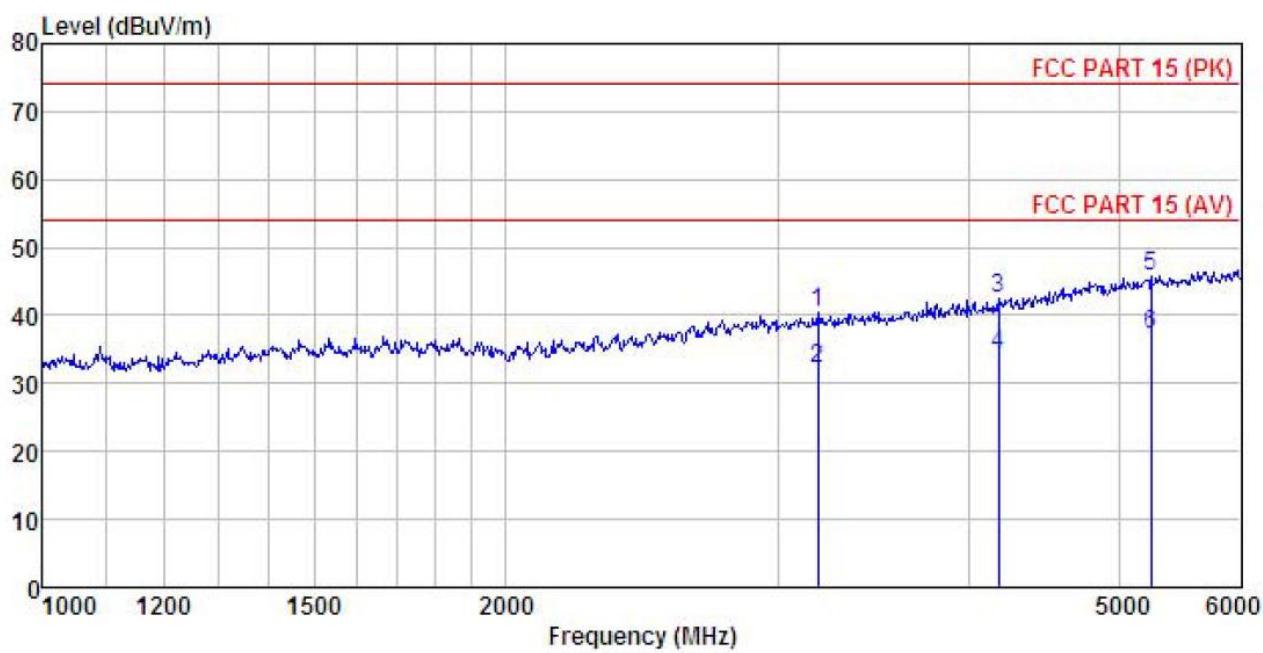
Freq	Read Level MHz	Antenna Factor dBuV	Cable Loss dB	Preamp Factor dB	Line Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
	MHz	dBuV	dB	dB	dBuV/m	dBuV/m	dB	
1	190.405	45.33	11.21	2.80	28.90	30.44	43.50	-13.06 QP
2	239.987	47.55	12.97	2.82	28.59	34.75	46.00	-11.25 QP
3	254.728	46.34	13.33	2.82	28.53	33.96	46.00	-12.04 QP
4	382.588	46.62	15.20	3.09	28.70	36.21	46.00	-9.79 QP
5	480.528	53.67	16.97	3.46	28.92	45.18	46.00	-0.82 QP
6	696.857	37.11	19.80	4.16	28.68	32.39	46.00	-13.61 QP

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.

Above 1GHz:

Product Name:	Smart Phone	Product model:	Eternity H67
Test By:	Caffrey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



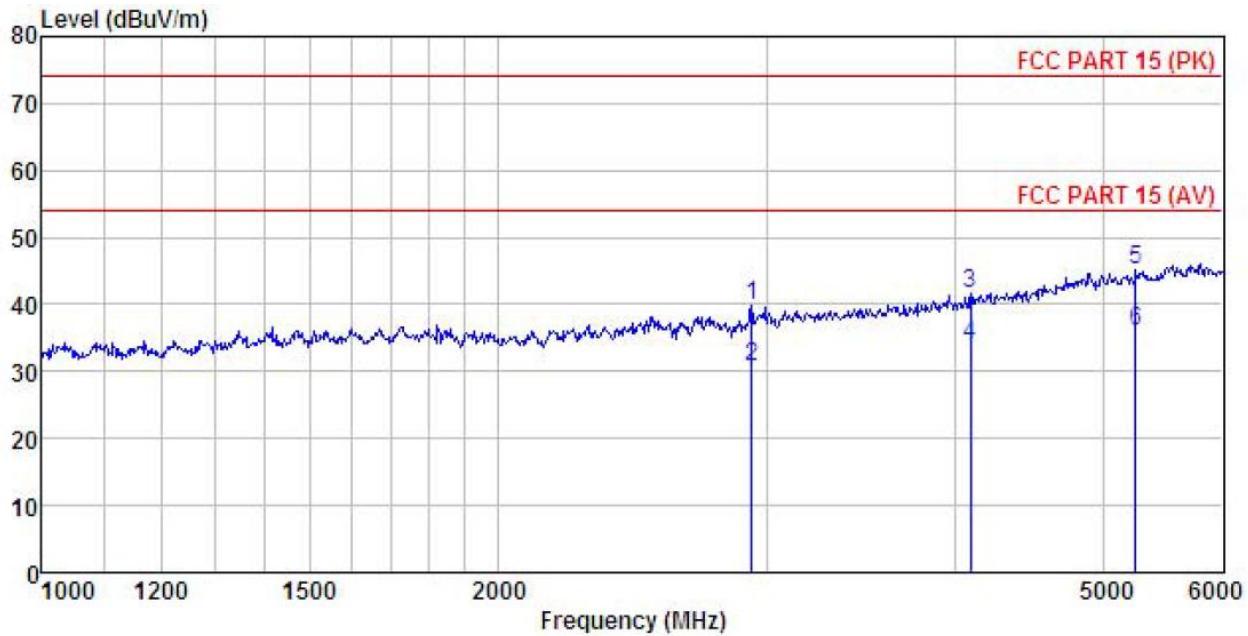
Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor	Level	Line	

	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	3189.176	47.66	28.72	5.42	41.41	40.39	74.00	-33.61 Peak
2	3189.176	39.54	28.72	5.42	41.41	32.27	54.00	-21.73 Average
3	4179.719	47.40	30.54	6.37	41.81	42.50	74.00	-31.50 Peak
4	4179.719	39.13	30.54	6.37	41.81	34.23	54.00	-19.77 Average
5	5248.359	48.45	32.15	7.09	41.93	45.76	74.00	-28.24 Peak
6	5248.359	39.75	32.15	7.09	41.93	37.06	54.00	-16.94 Average

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.

Product Name:	Smart Phone	Product model:	Eternity H67
Test By:	Caffrey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



Freq MHz	Read	Antenna Level	Cable Loss	Preamp Factor	Limit Level	Line dBuV/m	Over Line dBuV/m	Over Line dB	Remark
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	
1 2933.183	47.73	28.48	5.28	41.56	39.93	74.00	-34.07	Peak	
2 2933.183	38.50	28.48	5.28	41.56	30.70	54.00	-23.30	Average	
3 4091.203	46.96	30.37	6.23	41.81	41.75	74.00	-32.25	Peak	
4 4091.203	39.17	30.37	6.23	41.81	33.96	54.00	-20.04	Average	
5 5258.582	47.77	32.16	7.09	41.93	45.09	74.00	-28.91	Peak	
6 5258.582	38.60	32.16	7.09	41.93	35.92	54.00	-18.08	Average	

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.