

FCC REPORT

Applicant: Shenzhen UMIDIGI company Limited

Address of Applicant: 406-407 Jinqi Zhigu Building, 4/F, 1 Tangling Road, Nanshan District, Shenzhen City, PRC

Equipment Under Test (EUT)

Product Name: Mobile phone

Model No.: T50R

Trade mark: UMIDIGI

FCC ID: 2APL8ONEMAX

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.225

Date of sample receipt: 18 Dec., 2018

Date of Test: 18 Dec., 2018 to 21 Jan., 2019

Date of report issue: 21 Jan., 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	21 Jan., 2019	Original

Tested by:



Date:

21 Jan., 2019

Test Engineer

Reviewed by:



Date:

21 Jan., 2019

Project Engineer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
Field strength of the fundamental signal	15.225 (a)	Pass
Spurious emissions	15.225(d)& 15.209	Pass
20dB Bandwidth	15.215(c)	Pass
Frequency tolerance	15.225 (e)	Pass
Conducted Emission	15.207	Pass

Remarks:

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

5 General Information

5.1 Client Information

Applicant:	Shenzhen UMIDIGI company Limited
Address:	406-407 Jinqi Zhigu Building, 4/F, 1 Tangling Road, Nanshan District, Shenzhen City, PRC
Manufacturer:	Shenzhen UMIDIGI company Limited
Address:	406-407 Jinqi Zhigu Building, 4/F, 1 Tangling Road, Nanshan District, Shenzhen City, PRC

5.2 General Description of E.U.T.

Product Name:	Smartphone
Model No.:	One Max
Operation Frequency:	13.56MHz
Channel numbers:	1
Modulation type:	ASK
Antenna Type:	Internal Antenna
Antenna gain:	0dBi
Power supply:	Rechargeable Li-ion Battery DC3.85V-4150mAh
AC adapter:	Model: HJ-FC010K7-US Input: AC100-240V 50/60Hz, 0.6A Output: DC 5V, 2A DC 9V, 2A DC 12A, 1.5A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with modulation										
Pre-Test Mode:											
CCIS has verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:											
<table border="1"> <thead> <tr> <th>Axis</th><th>X</th><th>Y</th><th>Z</th></tr> </thead> <tbody> <tr> <td>Field Strength(dBuV/m)</td><td>57.47</td><td>54.42</td><td>53.21</td></tr> </tbody> </table>				Axis	X	Y	Z	Field Strength(dBuV/m)	57.47	54.42	53.21
Axis	X	Y	Z								
Field Strength(dBuV/m)	57.47	54.42	53.21								
Final Test Mode:											
According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”: Y axis (see the test setup photo).											

5.4 Description of Support Units

N/A

5.5 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>

5.6 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
 Tel: +86-755-23118282, Fax: +86-755-23116366
 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

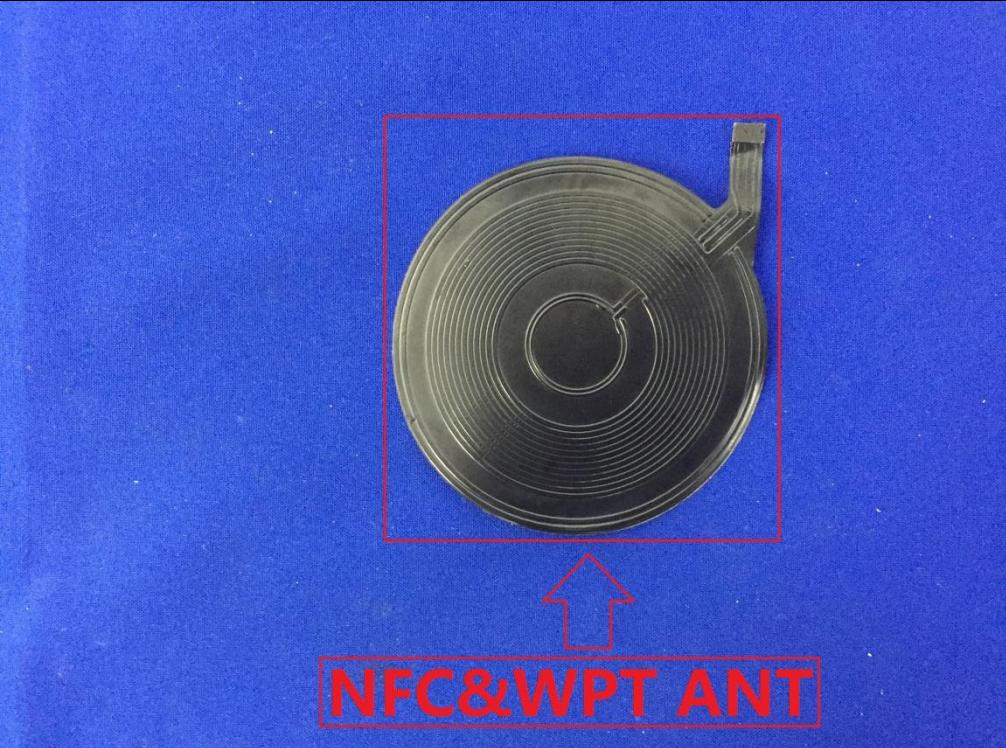
5.7 Test Instrumentslist

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
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2017	06-21-2020
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	11-21-2018	11-20-2019
Loop Antenna	SCHWARZBECK	FMZB 1519 B	00044	03-16-2018	03-15-2019
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	11-21-2018	11-20-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-07-2018	03-06-2019
Signal Generator	R&S	SMR20	1008100050	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.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	07-22-2017	07-21-2020
EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	CCIS0074	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Coaxial Cable	CCIS	N/A	CCIS0086	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		

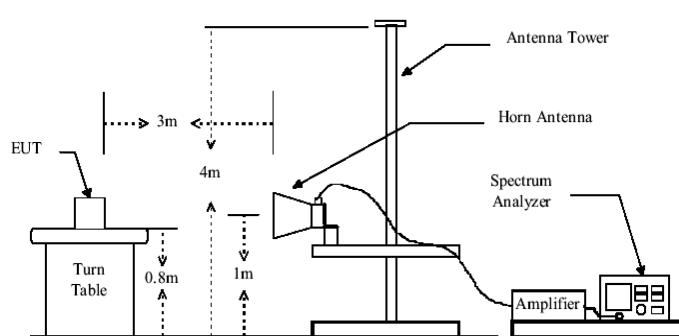
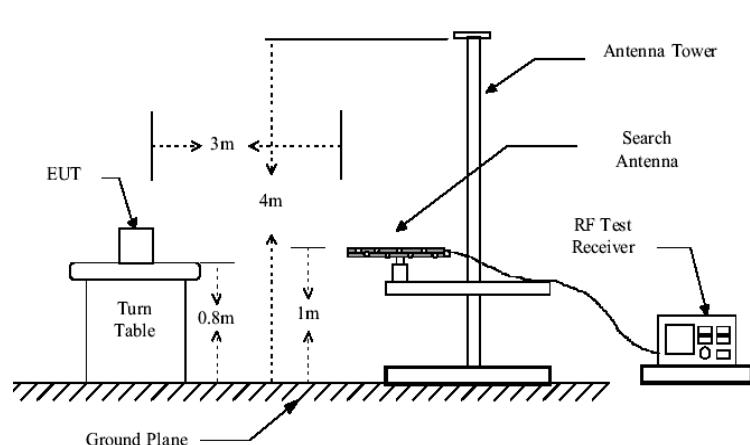
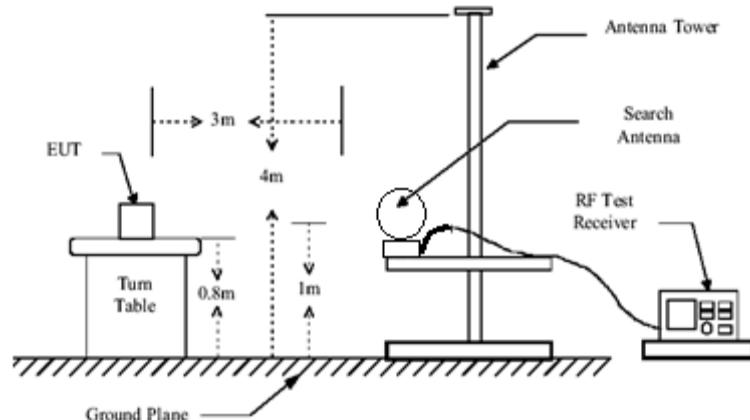
6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
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.
E.U.T Antenna:	The EUT make use of an integrated antenna, The typical gain of the antenna is 0dBi.
	

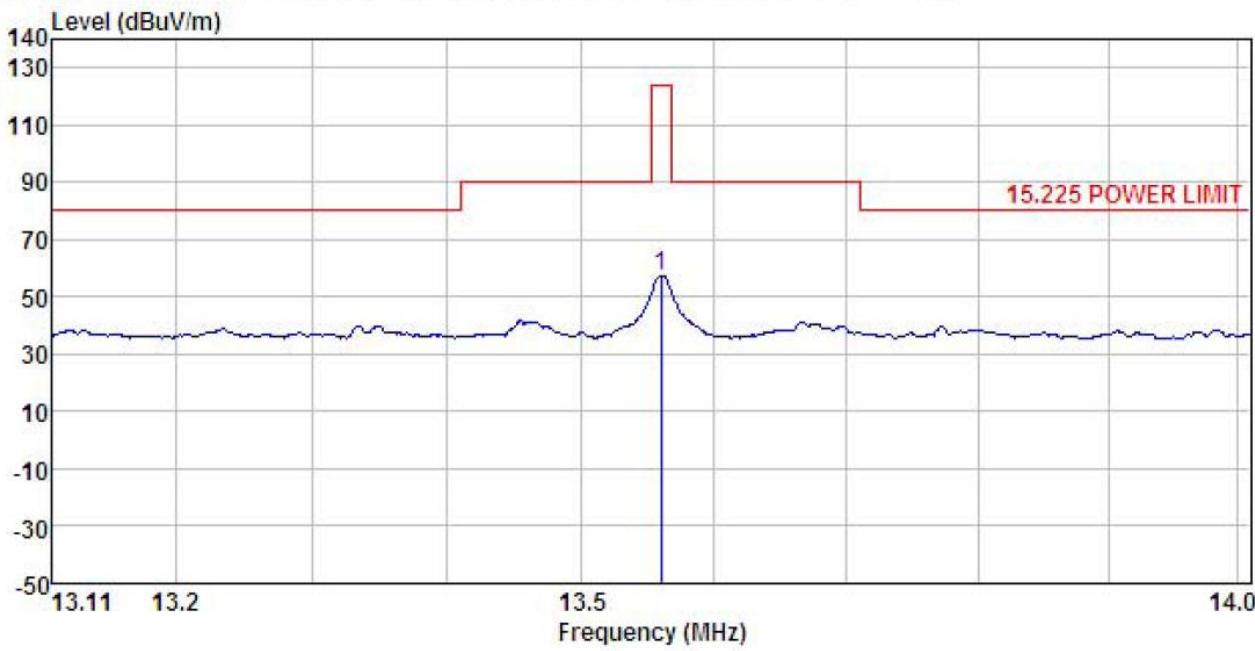
6.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.225(a) and 15.209								
Test Method:	ANSI C63.10: 2013								
Test Frequency Range:	9 kHz to 1000MHz								
Test site:	Measurement Distance: 3m(Semi-Anechoic Chamber)								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	9kHz-150kHz	Quasi-peak	200Hz	600Hz	Quasi-peak Value				
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value				
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
Limit: (Field strength of the fundamental signal)	Frequency	Limit (uV/m @30m)		Limit (dBuV/m @3m)					
	13.553MHz-13.567MHz	15848		124.0					
	13.410MHz-13.553MHz & 13.567MHz-13.710MHz	334		90.5					
	13.110MHz-13.410MHz & 13.710MHz-14.010MHz	106		80.5					
	Remark: Per FCC part 15.31, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).								
Limit: (Spurious Emissions)	Frequency (MHz)	Limit (uV/m @3m)		Distance (m)					
	0.009-0.490	2400/F(kHz)		300					
	0.490-1.705	24000/F(kHz)		30					
	1.705-30	30		30					
	30-88	100		3					
	88-216	150		3					
	216-960	200		3					
	Above 1GHz	500		3					
Test Procedure:	<ol style="list-style-type: none"> 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. 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 rotatable 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 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 setup:	9kHz-30MHz								



Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Measurement Record:	Uncertainty: ± 4.88 dB
Test results:	Pass

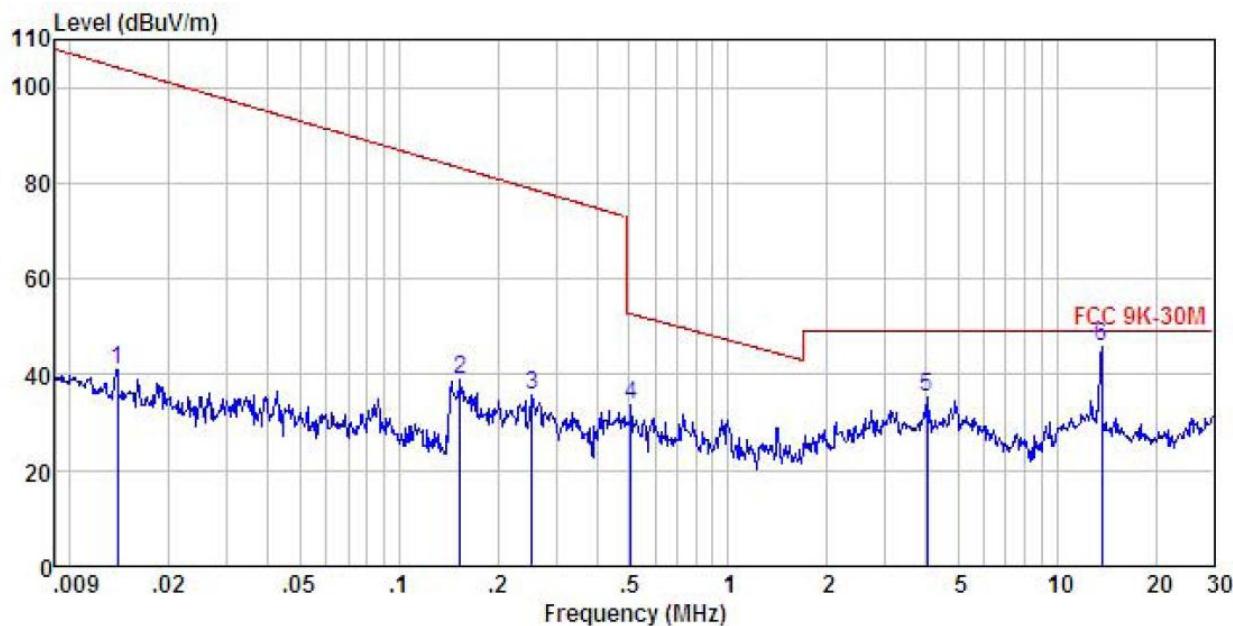
Measurement Data:**Field Strength of fundamental signal:**

Product Name:	Smartphone	Product Model:	One Max																												
Test By:	Yaro	Test mode:	NFC Tx mode																												
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%																												
<hr/>																															
																															
<table border="1"> <thead> <tr> <th>Read</th> <th>Antenna</th> <th>Cable</th> <th>Preamp</th> <th>Limit</th> <th>Over</th> <th>Remark</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Level</th> <th>Line</th> <th>Limit</th> </tr> <tr> <th>MHz</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> <th>dBuV/m</th> <th>dB</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>13.560</td> <td>31.80</td> <td>-26.47</td> <td>0.64</td> <td>0.00</td> <td>57.47 124.00 -66.53</td> </tr> </tbody> </table>				Read	Antenna	Cable	Preamp	Limit	Over	Remark	Freq	Level	Factor	Loss	Level	Line	Limit	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB	1	13.560	31.80	-26.47	0.64	0.00	57.47 124.00 -66.53
Read	Antenna	Cable	Preamp	Limit	Over	Remark																									
Freq	Level	Factor	Loss	Level	Line	Limit																									
MHz	dBuV	dB/m	dB	dB	dBuV/m	dB																									
1	13.560	31.80	-26.47	0.64	0.00	57.47 124.00 -66.53																									
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.																															

Spurious Emissions:

Test frequency range: 9 kHz- 30 MHz

Product Name:	Smartphone	Product Model:	One Max
Test By:	Yaro	Test mode:	NCF Tx mode
Test Frequency:	9 kHz ~ 30 MHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

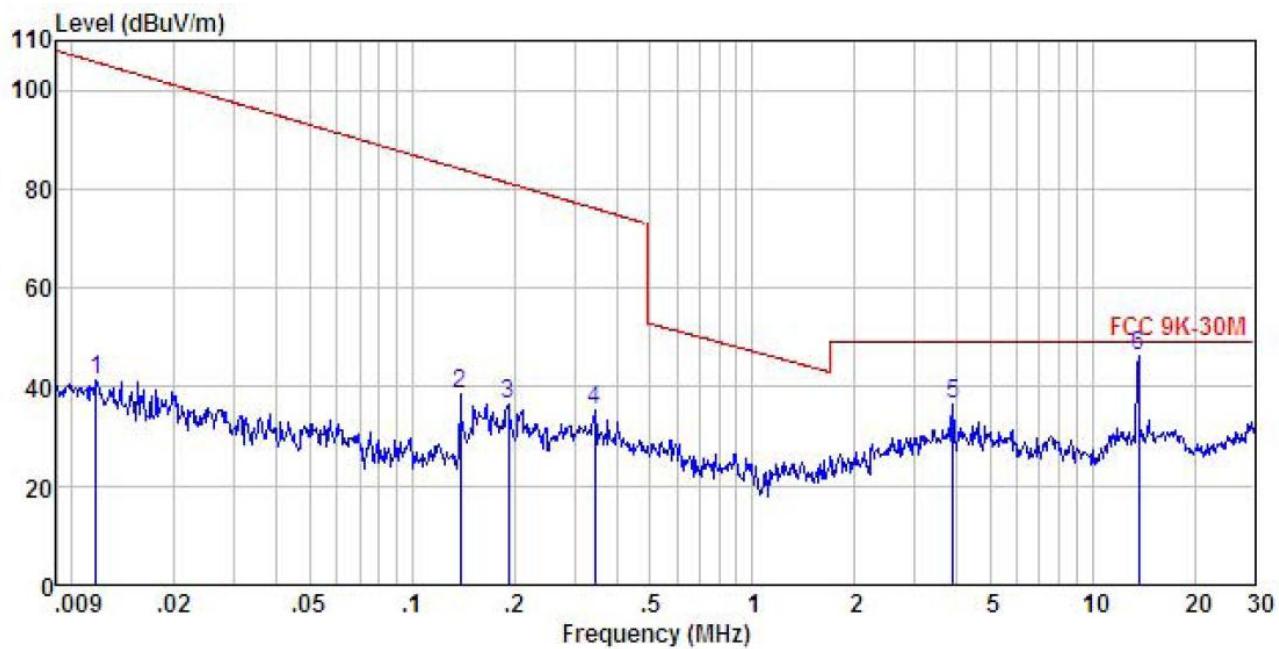


Freq	ReadAntenna		Cable Preamp		Limit	Over Line	Over Limit	Remark
	MHz	Level	Factor	Loss	Factor			
1	0.014	66.86	-25.85	0.04	0.00	41.05	104.16	-63.11 Peak
2	0.154	64.74	-26.16	0.27	0.00	38.85	83.14	-44.29 Peak
3	0.254	61.80	-26.23	0.34	0.00	35.91	78.74	-42.83 Peak
4	0.507	59.41	-26.30	0.46	0.00	33.57	52.72	-19.15 Peak
5	4.045	61.34	-26.58	0.66	0.00	35.42	49.00	-13.58 Peak
6	13.658	71.58	-26.48	0.64	0.00	45.74	49.00	-3.26 Peak

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of 9 kHz~150 kHz are background noise and very lower than the limit, not show in test report.

Product Name:	Smartphone	Product Model:	One Max
Test By:	Yaro	Test mode:	NCF Tx mode
Test Frequency:	9 kHz ~ 30 MHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



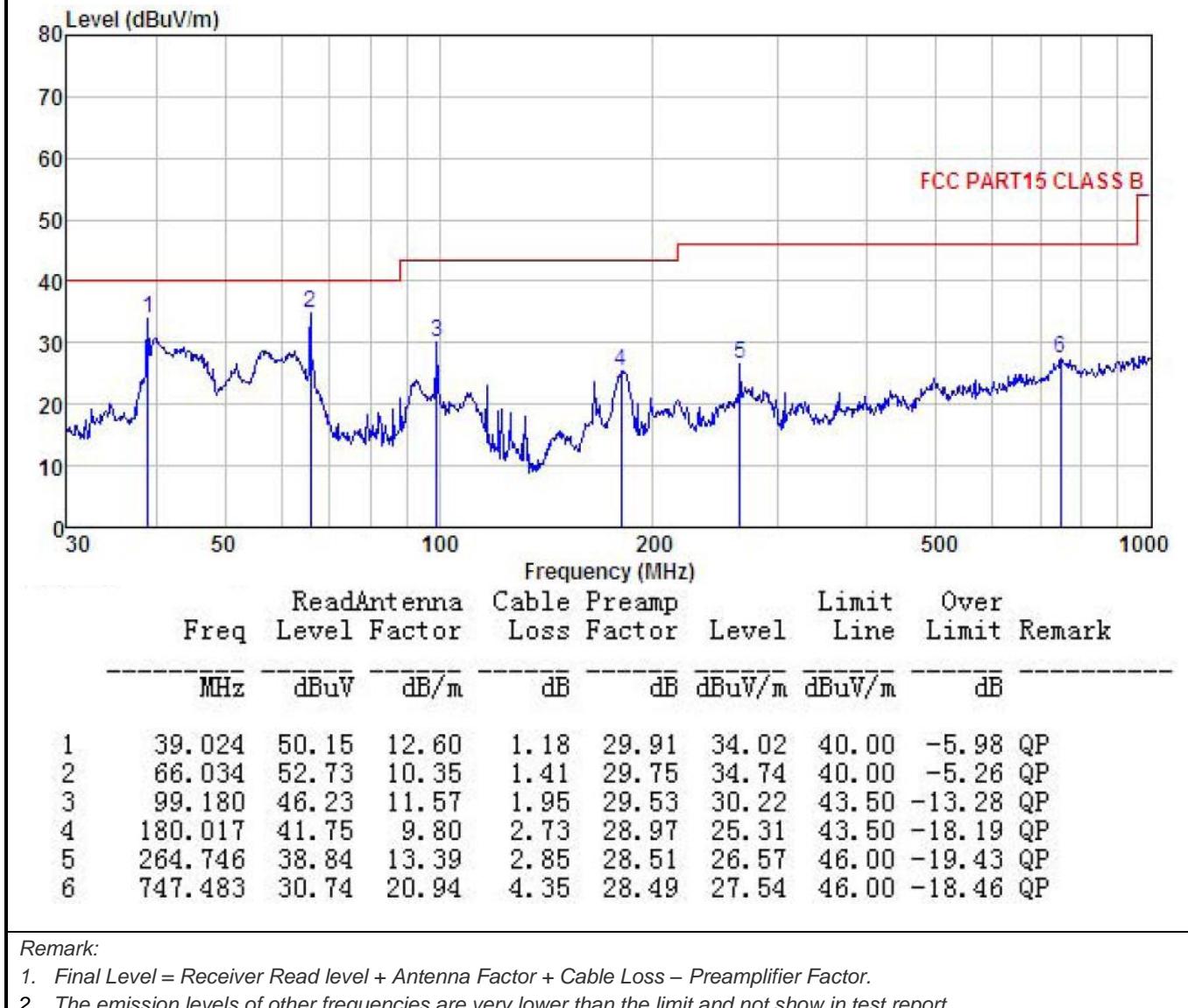
Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Over Limit	Remark
	MHz	dBm	dB/m	dB				
1	0.012	67.16	-25.82	0.03	0.00	41.37	105.66	-64.29 Peak
2	0.139	64.53	-26.15	0.25	0.00	38.63	84.06	-45.43 Peak
3	0.192	62.32	-26.19	0.32	0.00	36.45	81.22	-44.77 Peak
4	0.344	61.26	-26.26	0.36	0.00	35.36	76.11	-40.75 Peak
5	3.885	62.52	-26.57	0.66	0.00	36.61	49.00	-12.39 Peak
6	13.658	72.27	-26.48	0.64	0.00	46.43	49.00	-2.57 Peak

Remark:

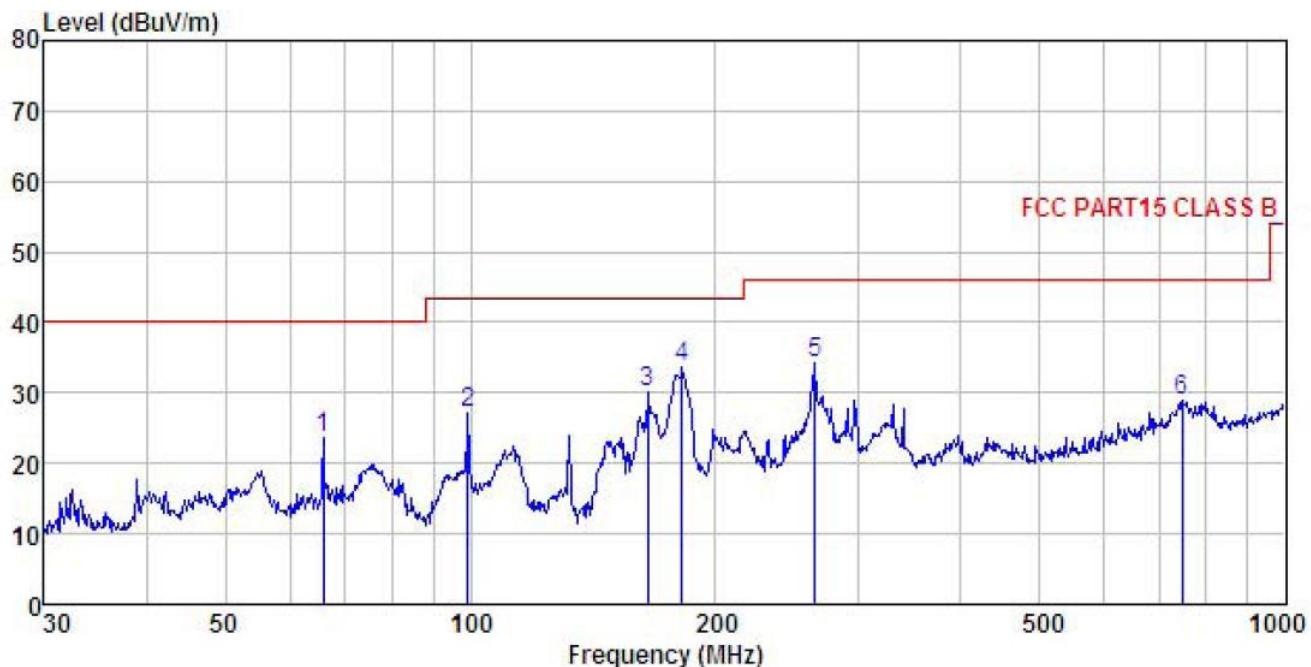
- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of 9 kHz~150 kHz are background noise and very lower than the limit, not show in test report.

Test frequency range: 30MHz-1000MHz

Product Name:	Smartphone	Product Model:	One Max
Test By:	Yaro	Test mode:	NCF Tx mode
Test Frequency:	30 MHz ~ 1GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



Product Name:	Smartphone	Product Model:	One Max
Test By:	Yaro	Test mode:	NCF Tx mode
Test Frequency:	30 MHz ~ 1GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

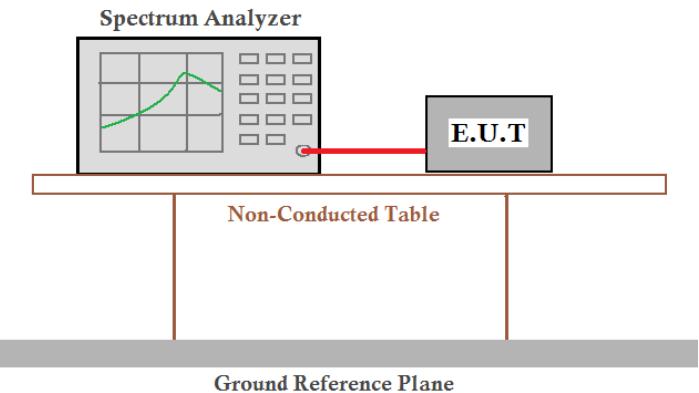


Freq	ReadAntenna		Cable		Preamp Level	Limit Line	Over Limit	Over Remark
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	66.034	41.75	10.35	1.41	29.75	23.76	40.00	-16.24 QP
2	99.180	43.27	11.57	1.95	29.53	27.26	43.50	-16.24 QP
3	164.908	47.46	9.25	2.62	29.09	30.24	43.50	-13.26 QP
4	181.920	49.86	10.07	2.74	28.96	33.71	43.50	-9.79 QP
5	264.746	46.41	13.39	2.85	28.51	34.14	46.00	-11.86 QP
6	747.483	32.08	20.94	4.35	28.49	28.88	46.00	-17.12 QP

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

6.3 20dB Bandwidth

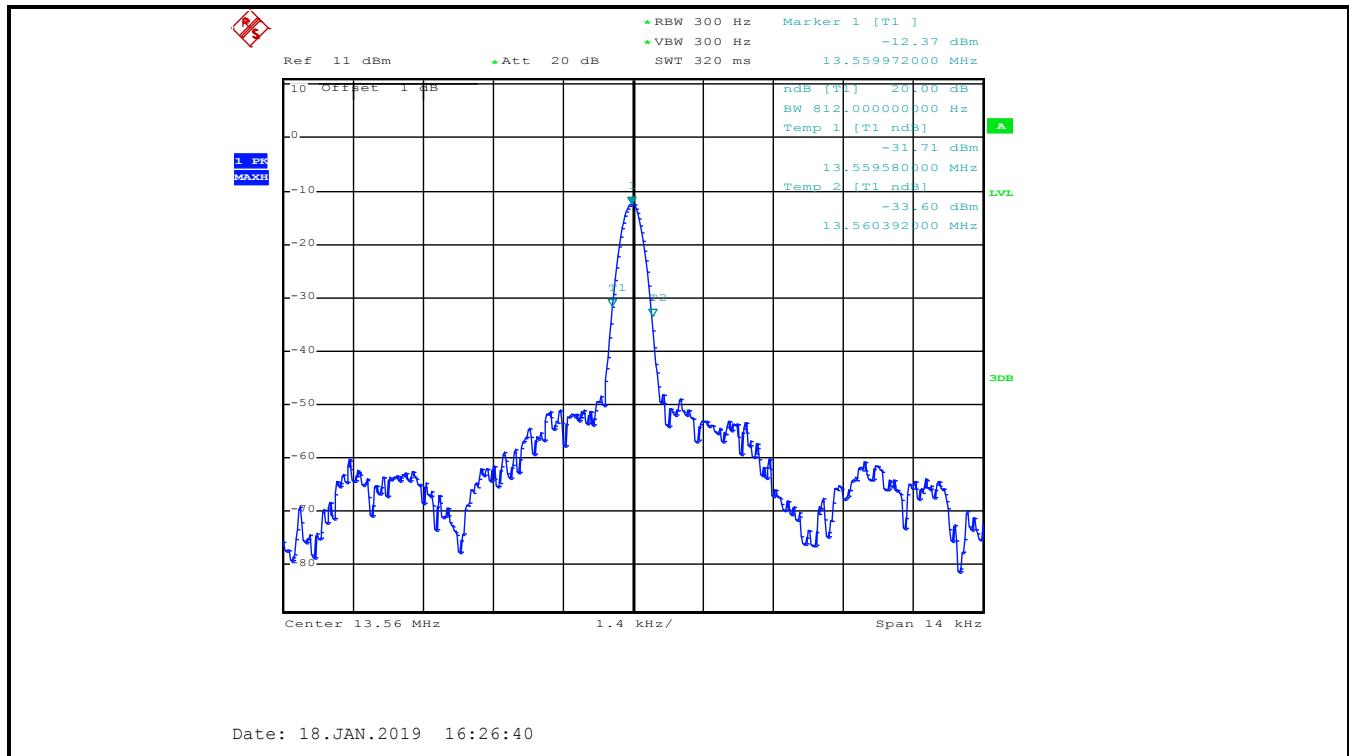
Test Requirement:	FCC Part15 C Section 15.215 (c)
Test Method:	ANSI C63.4:2014
Receiver setup:	RBW=200Hz, VBW=300Hz, detector: Peak
Limit:	The fundamental emission be kept within atleast the central 80% of the permitted band
Test Procedure:	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. 4. Read 20dB bandwidth.
Test setup:	<p style="text-align: center;">Spectrum Analyzer</p>  <p style="text-align: center;">Non-Conducted Table</p> <p style="text-align: center;">Ground Reference Plane</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

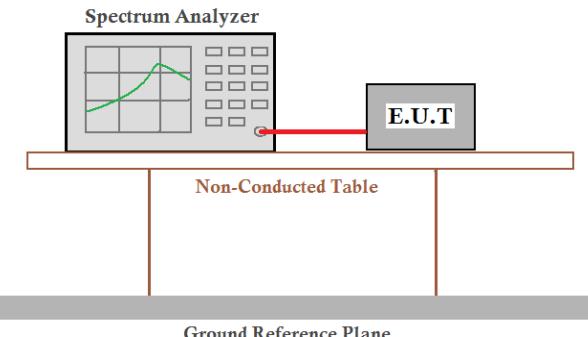
20dB bandwidth (kHz)	Limit (kHz)	Results
0.812	11.2	Passed

Note: For 13.56MHz, permitted Band is 14 kHz, so the Limit is 11.2 kHz.

Test plot as follows:



6.4 Frequency Tolerance

Test Requirement:	FCC Part15 C Section 15.225 (e)
Test Method:	ANSI C63.10: 2013
Receiver setup:	RBW=200Hz, VBW=300Hz, span=14kHz, detector: Peak
Limit:	$\pm 0.01\%$ of the operating frequency
Test mode:	Transmitting mode
Test Procedure:	<p>Frequency stability V.S. Temperature measurement</p> <ol style="list-style-type: none"> 1. The equipment under test was powered by a fresh battery. 2. RF output was connected to spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached <p>Frequency stability V.S. Voltage measurement</p> <ol style="list-style-type: none"> 1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. <p>Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</p>
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

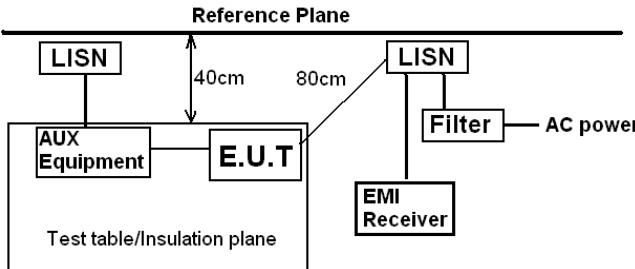
Measurement Data:**a) Frequency stability V.S. Temperature measurement**

	Temperature (°C)	Frequency Tolerance (MHz)	Frequency Error (%)	Limit (%)	Results
3.85	-20	13.561068	0.008	0.01	Pass
	-10	13.561067	0.008	0.01	Pass
	0	13.561067	0.008	0.01	Pass
	+10	13.561065	0.008	0.01	Pass
	+20	13.561066	0.008	0.01	Pass
	+30	13.561067	0.008	0.01	Pass
	+40	13.561065	0.008	0.01	Pass
	+50	13.561064	0.008	0.01	Pass

b) Frequency stability V.S. Voltage measurement

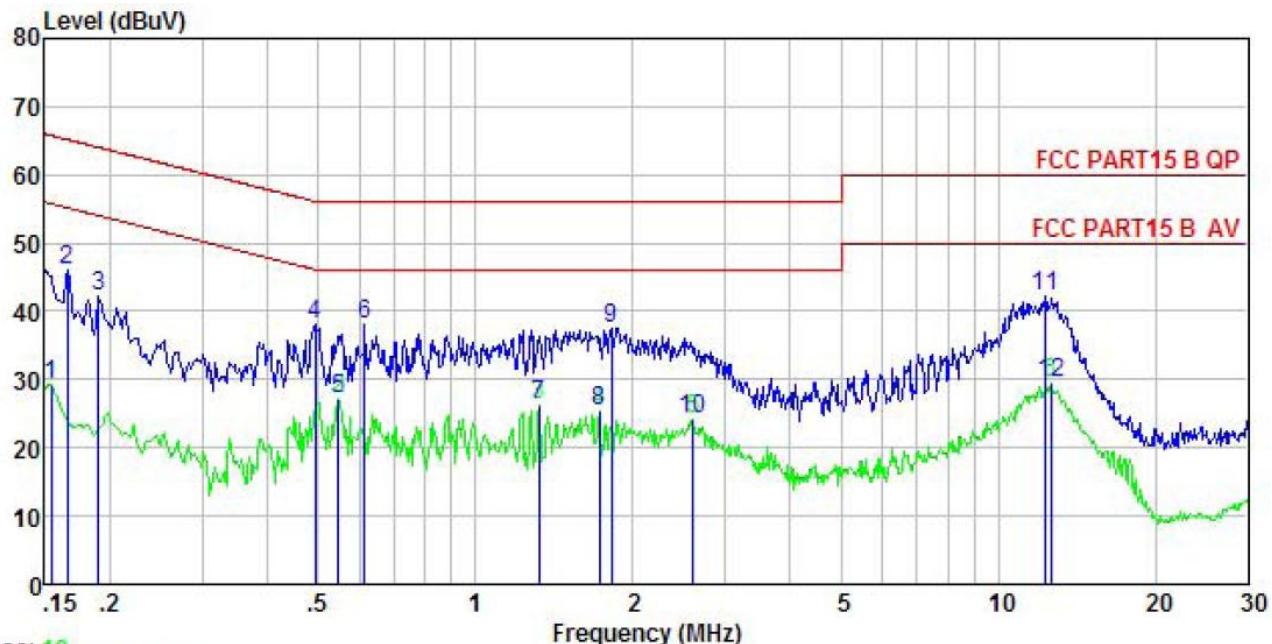
Temperature (°C)	Voltage (Vdc)	Frequency Tolerance (MHz)	Frequency Error (%)	Limit (%)	Results
25	3.50	13.561065	0.008	0.01	Pass
	3.85	13.561067	0.008	0.01	Pass
	4.40	13.561068	0.008	0.01	Pass

6.5 Conducted Emission

Test Requirement:	FCC Part15 B Section 15.207																		
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"> <thead> <tr> <th>Frequency range (MHz)</th> <th colspan="2">Limit (dB_uV)</th> </tr> <tr> <th></th> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <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> </tbody> </table>			Frequency range (MHz)	Limit (dB _u V)			Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	0.5-30	60	50	
Frequency range (MHz)	Limit (dB _u 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.																		
Test setup:	 <p>Reference Plane</p> <p>Test table/Insulation plane</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"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). It 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: 2003 on conducted measurement. 																		
Test environment:	Temp.:	23°C	Humid.:	56%															
Measurement Record:	Uncertainty: 3.28dB																		
Test Instruments:	Refer to section 5.7 for details																		
Test mode:	Refer to section 5.3 for details																		
Test results:	Pass																		

Measurement Data:

Product name:	Smartphone	Product model:	One Max
Test by:	Yaro	Test mode:	NFC Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%

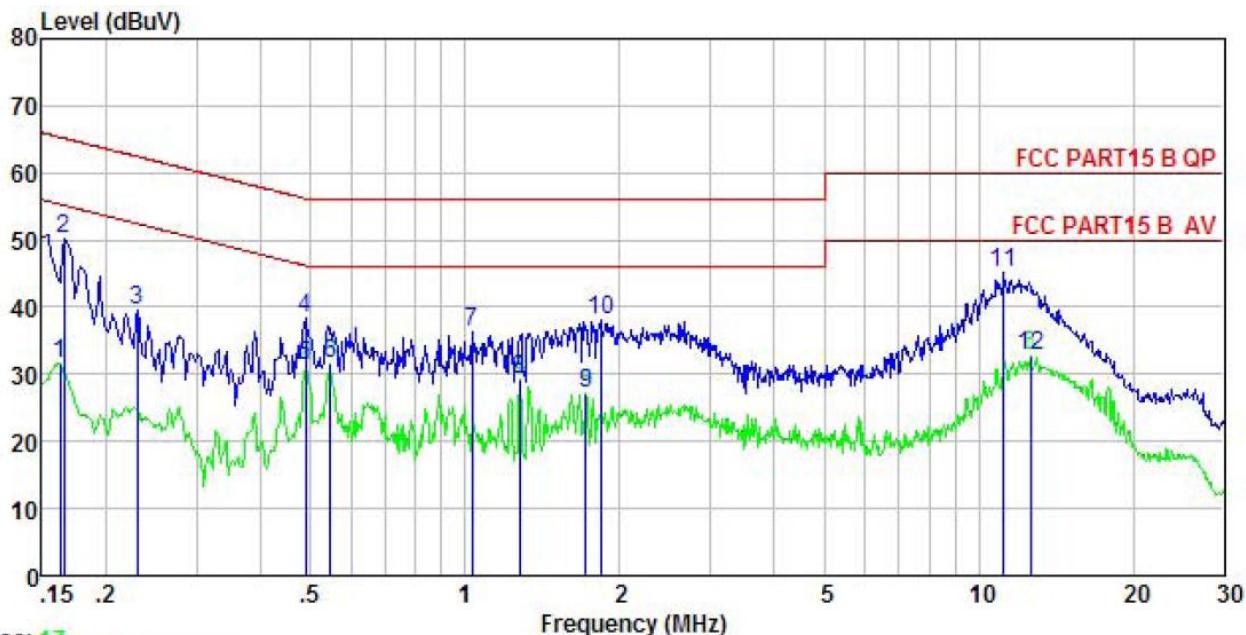


Freq	Read Level	LISN Factor	Cable Loss		Limit Line	Over Limit	Remark
			MHz	dBuV	dB	dBuV	dB
1	0.154	18.33	0.18	10.78	29.29	55.78	-26.49 Average
2	0.166	35.08	0.17	10.77	46.02	65.16	-19.14 QP
3	0.190	31.34	0.16	10.76	42.26	64.02	-21.76 QP
4	0.494	27.20	0.12	10.76	38.08	56.10	-18.02 QP
5	0.546	16.17	0.12	10.76	27.05	46.00	-18.95 Average
6	0.614	27.14	0.13	10.77	38.04	56.00	-17.96 QP
7	1.324	15.35	0.13	10.91	26.39	46.00	-19.61 Average
8	1.725	14.23	0.14	10.94	25.31	46.00	-20.69 Average
9	1.819	26.42	0.14	10.95	37.51	56.00	-18.49 QP
10	2.608	13.00	0.16	10.93	24.09	46.00	-21.91 Average
11	12.318	30.96	0.32	10.92	42.20	60.00	-17.80 QP
12	12.582	18.21	0.32	10.92	29.45	50.00	-20.55 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.

Product name:	Smartphone	Product model:	One Max
Test by:	Yaro	Test mode:	NFC Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%



Trace: 17

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.162	19.92	0.97	10.77	31.66	55.34	-23.68	Average
2	0.166	38.59	0.97	10.77	50.33	65.16	-14.83	QP
3	0.230	27.97	0.94	10.75	39.66	62.44	-22.78	QP
4	0.489	26.79	0.97	10.76	38.52	56.19	-17.67	QP
5	0.489	19.51	0.97	10.76	31.24	46.19	-14.95	Average
6	0.546	19.71	0.97	10.76	31.44	46.00	-14.56	Average
7	1.032	24.43	0.97	10.87	36.27	56.00	-19.73	QP
8	1.276	17.34	0.97	10.90	29.21	46.00	-16.79	Average
9	1.716	15.23	0.98	10.94	27.15	46.00	-18.85	Average
10	1.839	26.07	0.98	10.95	38.00	56.00	-18.00	QP
11	11.198	33.21	0.99	10.93	45.13	60.00	-14.87	QP
12	12.582	20.99	0.95	10.92	32.86	50.00	-17.14	Average

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.