FCC REPORT

Applicant: Sun Cupid Technology (HK) Ltd.

Address of Applicant: 16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan,

Kowloon, Hong Kong.

Equipment Under Test (EUT)

Product Name: LTE mobile phone

Model No.: N5501L, A5L

Trade mark: NUU

FCC ID: 2ADINN5501L

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 20 Jun., 2018

Date of Test: 20 Jun., to 16 Jul., 2018

Date of report issued: 25 Jul., 2018

Test Result: PASS *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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





2 Version

Version No.	Date	Description
00	25 Jul., 2018	Original

Tested by: VT Y Date: 25 Jul., 2018

Reviewed by: Date: 25 Jul., 2018

Project Engineer





3 Contents

1 COVER PAGE				Page
GENERAL INFORMATION 5.1 CLIENT INFORMATION 5.2 GENERAL DESCRIPTION OF E.U.T. 5.3 TEST MODE 5.4 MEASUREMENT UNCERTAINTY 5.5 DESCRIPTION OF SUPPORT UNITS 5.6 RELATED SUBMITTAL(s) / GRANT (s) 5.7 LABORATORY FACILITY 5.8 LABORATORY FACILITY 5.9 TEST INSTRUMENTS LIST 6 TEST RESULTS AND MEASUREMENT DATA 6.1 CONDUCTED EMISSION 6.2 RADIATED EMISSION	1	C	OVER PAGE	1
4 TEST SUMMARY	2	VI	/ERSION	2
5 GENERAL INFORMATION 5.1 CLIENT INFORMATION 5.2 GENERAL DESCRIPTION OF E.U.T. 5.3 TEST MODE 5.4 MEASUREMENT UNCERTAINTY 5.5 DESCRIPTION OF SUPPORT UNITS 5.6 RELATED SUBMITTAL(s) / GRANT (s) 5.7 LABORATORY FACILITY 5.8 LABORATORY LOCATION 5.9 TEST INSTRUMENTS LIST 6 TEST RESULTS AND MEASUREMENT DATA 6.1 CONDUCTED EMISSION 6.2 RADIATED EMISSION 1	3	C	CONTENTS	3
5 GENERAL INFORMATION 5.1 CLIENT INFORMATION 5.2 GENERAL DESCRIPTION OF E.U.T. 5.3 TEST MODE 5.4 MEASUREMENT UNCERTAINTY 5.5 DESCRIPTION OF SUPPORT UNITS 5.6 RELATED SUBMITTAL(s) / GRANT (s) 5.7 LABORATORY FACILITY 5.8 LABORATORY LOCATION 5.9 TEST INSTRUMENTS LIST 6 TEST RESULTS AND MEASUREMENT DATA 6.1 CONDUCTED EMISSION 6.2 RADIATED EMISSION 1	4	TI	EST SUMMARY	4
5.1 CLIENT INFORMATION 5.2 GENERAL DESCRIPTION OF E.U.T. 5.3 TEST MODE 5.4 MEASUREMENT UNCERTAINTY 5.5 DESCRIPTION OF SUPPORT UNITS 5.6 RELATED SUBMITTAL(s) / GRANT (s) 5.7 LABORATORY FACILITY 5.8 LABORATORY LOCATION 5.9 TEST INSTRUMENTS LIST 6 TEST RESULTS AND MEASUREMENT DATA 6.1 CONDUCTED EMISSION 6.2 RADIATED EMISSION	5			
5.2 GENERAL DESCRIPTION OF E.U.T. 5.3 TEST MODE 5.4 MEASUREMENT UNCERTAINTY 5.5 DESCRIPTION OF SUPPORT UNITS 5.6 RELATED SUBMITTAL(s) / GRANT (s) 5.7 LABORATORY FACILITY 5.8 LABORATORY LOCATION 5.9 TEST INSTRUMENTS LIST 6 TEST RESULTS AND MEASUREMENT DATA 6.1 CONDUCTED EMISSION 6.2 RADIATED EMISSION	_			
5.3 TEST MODE 5.4 MEASUREMENT UNCERTAINTY 5.5 DESCRIPTION OF SUPPORT UNITS 5.6 RELATED SUBMITTAL(s) / GRANT (s) 5.7 LABORATORY FACILITY 5.8 LABORATORY LOCATION 5.9 TEST INSTRUMENTS LIST 6 TEST RESULTS AND MEASUREMENT DATA 6.1 CONDUCTED EMISSION 6.2 RADIATED EMISSION 1		J		
5.4 MEASUREMENT UNCERTAINTY		5.3		
5.6 RELATED SUBMITTAL(s) / GRANT (s) 5.7 LABORATORY FACILITY 5.8 LABORATORY LOCATION 5.9 TEST INSTRUMENTS LIST 6 TEST RESULTS AND MEASUREMENT DATA 6.1 CONDUCTED EMISSION 6.2 RADIATED EMISSION		5.4		
5.7 LABORATORY FACILITY		5.5	DESCRIPTION OF SUPPORT UNITS	7
5.8 LABORATORY LOCATION		5.6	RELATED SUBMITTAL(S) / GRANT (S)	7
5.9 TEST INSTRUMENTS LIST		5.7	LABORATORY FACILITY	7
6.1 CONDUCTED EMISSION		5.8		
6.1 CONDUCTED EMISSION				
6.2 RADIATED EMISSION	6	T	EST RESULTS AND MEASUREMENT DATA	9
		6.1	CONDUCTED EMISSION	9
7 TEST SETUD BUOTO				
/ IEST SETUP PROTU	7	TI	EST SETUP PHOTO	18
8 FUT CONSTRUCTIONAL DETAILS	Ω	FI	CUT CONSTRUCTIONAL DETAILS	19





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:	Sun Cupid Technology (HK) Ltd.			
Address of Applicant:	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.			
Manufacturer:	Sun Cupid Technology (HK) Ltd.			
Address:	16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.			
Factory:	SUNCUPID (ShenZhen) Electronic Ltd			
Address:	Baolong Industrial City, Longgang District, Shenzhen Hi-Tech Road, Building 1, A 7, China.			

5.2 General Description of E.U.T.

Product Name:	LTE mobile phone	
Model No.:	N5501L, A5L	
Power supply:	Rechargeable Li-ion Battery DC3.8V-2650mAh	
AC adapter :	Adapter(1) Model: HNBL050100UX Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A Adapter(2) Model: HJ-0501000E1-US Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A Adapter(3) Model: HJ-0501000B3-EU Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1.0A	
Remark:	 The No.: N5501L, A5L were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name and trademark. adapter (1) have different pins and the internal structure is the same, so there is no need to do the difference test. 	

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

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

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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,

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5.9 Test Instruments list

Radia	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	07-22-2017	07-21-2020		
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-16-2018	03-15-2019		
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-16-2018	03-15-2019		
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	03-07-2018	03-06-2019		
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	03-07-2018	03-06-2019		
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	ohde & Schwarz FSP30		03-07-2018	03-06-2019		
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-07-2018	03-06-2019		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	N/A	N/A	CCIS0018	03-07-2018	03-06-2019		
10	Coaxial Cable	N/A	N/A	CCIS0020	03-07-2018	03-06-2019		

Cond	Conducted Emission:								
Item	Test Equipment	st Equipment Manufacturer Model No.		Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	07-22-2017	07-21-2020			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-07-2018	03-06-2019			
3	LISN	CHASE	MN2050D	CCIS0074	03-19-2018	03-18-2019			
4	LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019			
5	Coaxial Cable	CCIS	N/A	CCIS0086	03-07-2018	03-06-2019			
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			



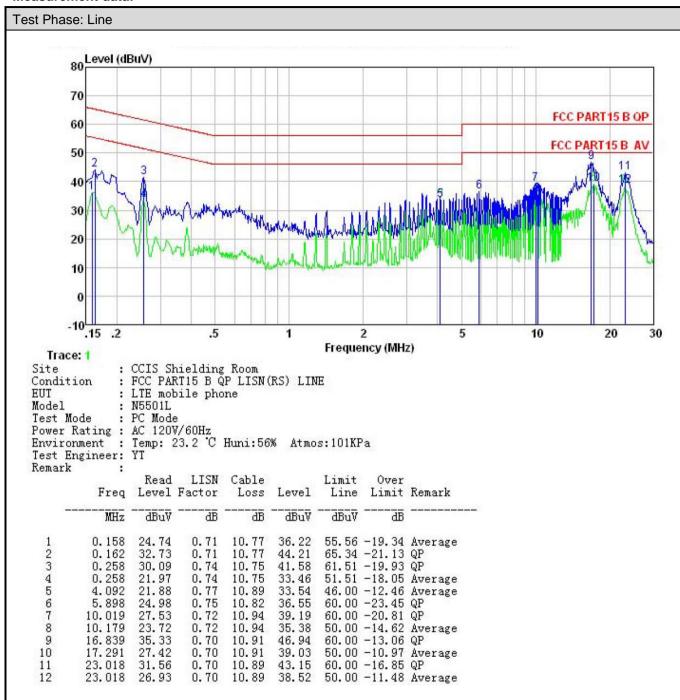
6 Test results and Measurement Data

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:	Frequency range (MHz)	Limit ((dBµV)		
	, , ,	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	0.5-30 * Decreases with the logarith	60	50		
Toot cotup:					
Test setup:	Reference Plan	LISN			
	AUX Equipment E.U.T Filter AC power Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m				
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedance. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fir positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.). The pedance for the measure also connected to the ohm/50uH coupling imports to the block diagram of the maximum emiss and all of the interface ca	ne provide a ring equipment. e main power through bedance with 50ohm of the test setup and n conducted ion, the relative bles must be changed		
Test environment:	Temp.: 23 °C Hun	nid.: 56% Pro	ess.: 101kPa		
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				



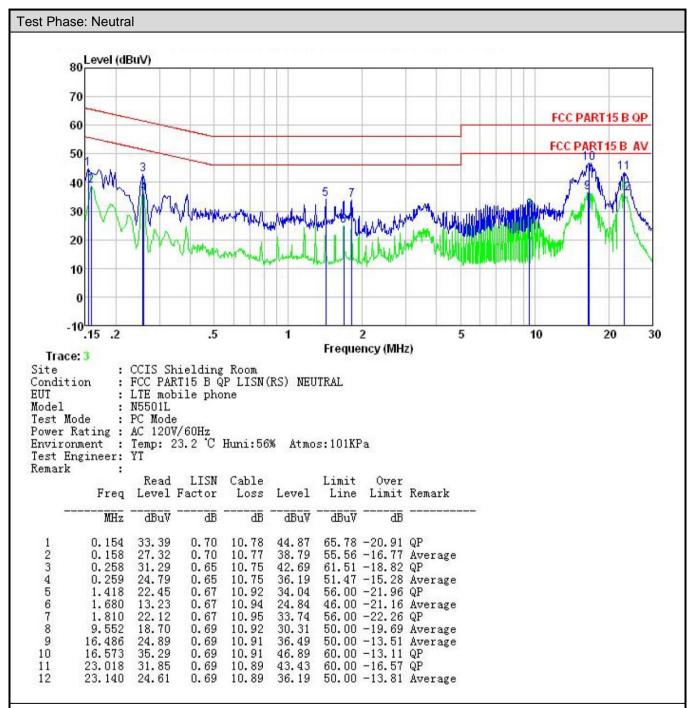
Measurement data:



Notes:

- 1. 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.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.





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

0.2 Naulateu Elilission									
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 Rem						Remark		
	30MHz-1GHz	Quasi-		120kHz	300k		Quasi-peak Value		
	Above 1GHz	Pea RM		1MHz 1MHz	3MF 3MF		Peak Value Average Value		
Limit:	Frequenc			(dBuV/m @		12	Remark		
Littie	30MHz-88M			40.0	, , , ,	(Quasi-peak Value		
	88MHz-216M			43.5			Quasi-peak Value		
	216MHz-960			46.0			Quasi-peak Value		
	960MHz-1G			54.0			Quasi-peak Value		
				54.0			Average Value		
	Above 1GI	HZ		74.0			Peak Value		
Test setup:	Below 1GHz								
	Search Antenna RF Test Receiver Tum Table 0.8m Im Table Ground Plane								
	Horn Antenna Tower AE Ground Reference Plane Test Receiver Test Receiver Test Receiver								



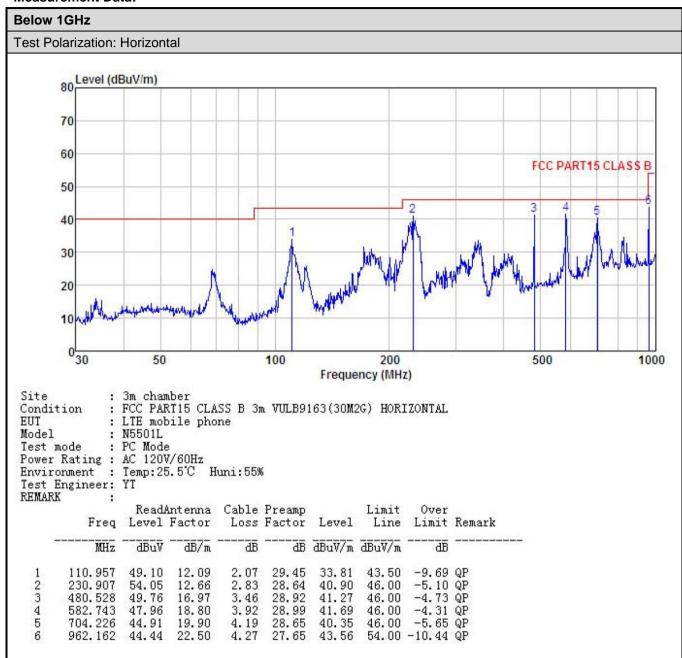


Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 					
	The EUT was set 3 meters away from the interference-receiving antenna, which was 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.					
	4. For each suspected emission, the EUT was arrange and then the antenna was tuned to heights from 1 n and the rotatable table was turned from 0 degrees the find the maximum reading.					
	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 ware the niose floor , which were no recorded					





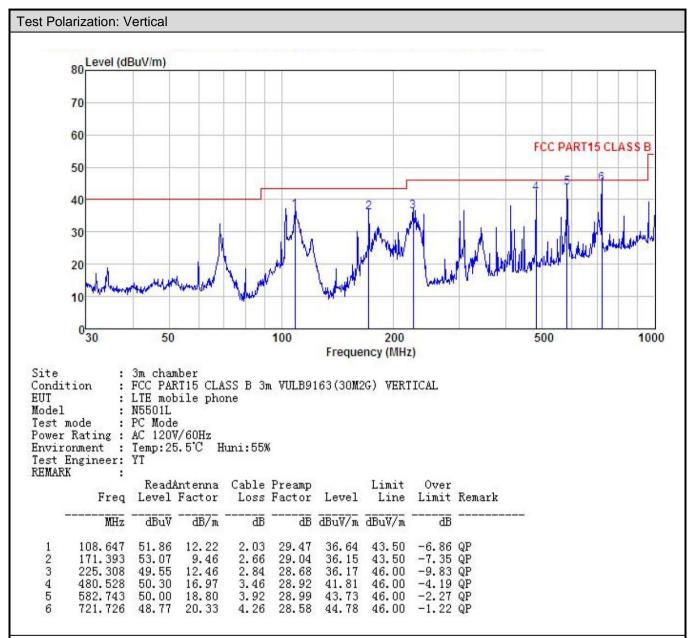
Measurement Data:



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.





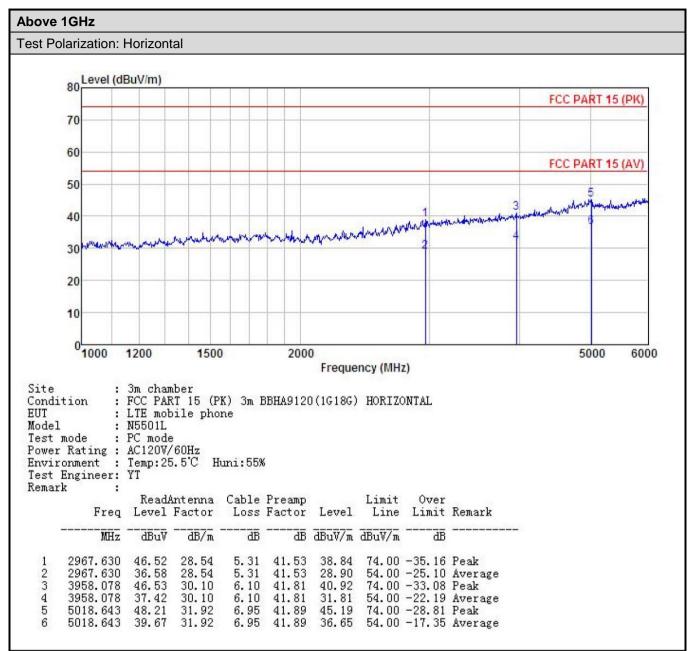
Remark:

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.





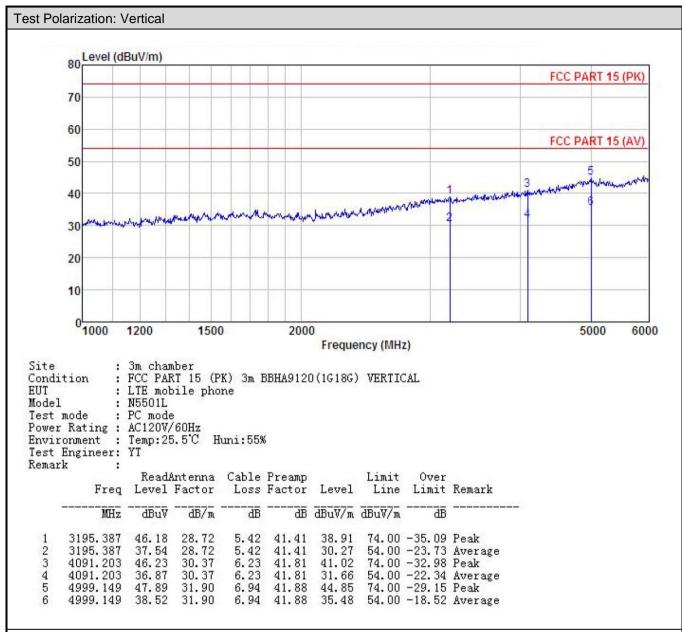


Remark:

^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

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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.