Report No: CCISE160506505

FCC REPORT

Applicant: SUN CUPID TECHNOLOGY(HK) LIMITED

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

Kong

Equipment Under Test (EUT)

Product Name: mobile phone

Model No.: A1

Trade mark: NUU

FCC ID: 2ADINNUUA1

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 23 May, 2016

Date of Test: 23 May, to 12 Jun., 2016

Date of report issued: 12 Jun., 2016

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	12 Jun., 2016	Original

Reviewed by: Over them Date: 12 Jun., 2016

Project Engineer





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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

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



5 General Information

5.1 Client Information

Applicant:	SUN CUPID TECHNOLOGY(HK) LIMITED
Address of Applicant:	16/F,CEO Tower,77 Wing Hong Street,Cheung Sha Wan,Hong Kong
Manufacturer	Sun cupid(Shen Zhen) Electronic Ltd
Address of Manufacturer:	Baolong Industrial City, Longgang District, Shenzhen Hi-Tech Road, Building 1, A 7

5.2 General Description of E.U.T.

Product Name:	mobile phone
Model No.:	A1
Power supply:	Rechargeable Li-ion Battery DC3.7V-1300mAh
	Model: HJ-0501000E1-US
AC adapter :	Input: AC100-240V 50/60Hz 0.2A
	Output: DC 5.0V, 1A

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

•	
Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

Report No: CCISE160506505

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	L MOUSE MOC5		N/A	DoC
HP	Printer	CB495A	05257893	DoC
MERCURY	Wireless router	MW150R	12922104015	FCC ID
NAKAMICHI	Bluetooth earphone	T8	N/A	FCC ID

5.6 Laboratory Facility

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

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

• 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.

5.7 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





5.8 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	08-23-2014	08-22-2017		
2	2 BiConiLog Antenna SCHWARZBEC		VULB9163	CCIS0005	03-25-2016	03-25-2017		
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-25-2016	03-25-2017		
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2016	03-31-2017		
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2016	03-31-2017		
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-28-2016	03-28-2017		
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2016	03-28-2017		

Cond	Conducted Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date			
iteiii		Wallulacturel	wiodei No.	No.	(mm-dd-yy)	(mm-dd-yy)			
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	08-23-2014	08-22-2017			
2	2 EMI Test Receiver Rohde & Schwarz		ESCI	CCIS0002	03-24-2016	03-24-2017			
3	B LISN CHASE		MN2050D	CCIS0074	03-26-2016	03-26-2017			
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2016	03-31-2017			



6 Test results and Measurement Data

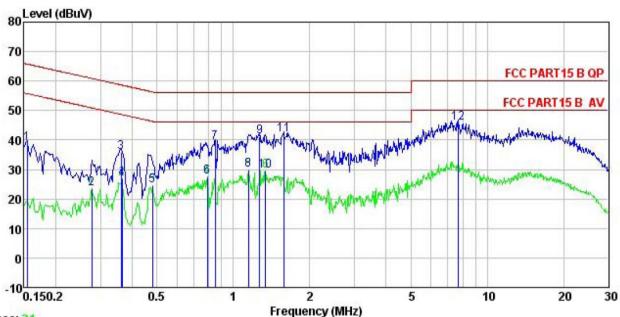
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10)7				
Test Method:	ANSI C63.4:2014 150kHz to 30MHz					
Test Frequency Range:						
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Fraguency range (MUz)	Liı	mit (dBµV)			
	Frequency range (MHz)	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:	* Decreases with the logarith					
	Reference Plane LISN 40cm 80cm Filter AC power Equipment Test table/Insulation plane 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 impedances. 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.) bedance for the mea e also connected to ohm/50uH coupling s to the block diagra e checked for maximal the maximum en d all of the interface	asuring equipment. the main power through impedance with 50ohm am of the test setup and mum conducted nission, the relative e cables must be changed			
Test environment:	Temp.: 23 °C Hun	nid.: 56%	Press.: 101kPa			
Measurement Record:		·	Uncertainty: ±3.28dB			
Test Instruments:	Refer to section 5.7 for detail	ls	·			
Test mode:	Refer to section 5.3 for detail					
Test results:	Pass					



Measurement data:

Line:



Trace: 21

: CCIS Shielding Room : FCC PART15 B QP LISN LINE Site Condition

EUT : mobile phone

Model : A1 Test Mode : PC mode

Power Rating: AC 120/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: YT

Remark

emark	•	D 1	TTCT	C 1 1			^		
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark	
	MHz	dBu₹	<u>dB</u>	₫B	dBu₹	dBu∇	<u>d</u> B		-
1	0.154	27.79	0.14	10.78	38.71	65.78	-27.07	QP	
2	0.277	12.63	0.16	10.74	23.53	50.90	-27.37	Average	
3	0.361	24.84	0.21	10.73	35.78	58.69	-22.91	QP	
3 4	0.365	16.01	0.22	10.73	26.96	48.61	-21.65	Average	
5	0.481	13.47	0.24	10.75	24.46	46.32	-21.86	Average	
6	0.792	16.44	0.30	10.81	27.55	46.00	-18.45	Average	
6 7 8	0.848	28.14	0.29	10.82	39.25		-16.75		
8	1.147	18.70	0.27	10.89	29.86	46.00	-16.14	Average	
9	1.269	29.85	0.28	10.90	41.03	56.00	-14.97	QP	
10	1.338	18.34	0.29	10.91	29.54	46.00	-16.46	Average	
11	1.577	30.67	0.30	10.93	41.90	56.00	-14.10	QP	
12	7.687	34.45	0.35	10.83	45.63	60.00	-14.37	QP	

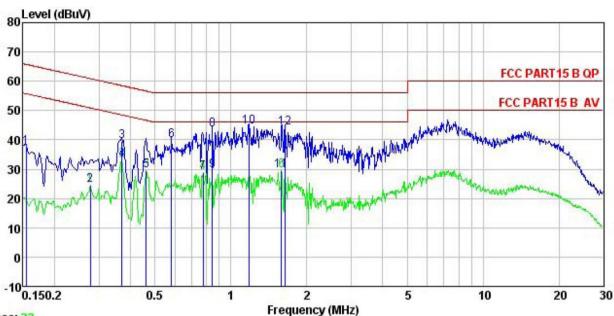
Notes:

- 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.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366



Neutral:



Trace: 23

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition

EUT : mobile phone

Model : A1

Test Mode : PC mode Power Rating : AC 120/60Hz

Environment : Temp: 23 °C Huni:56% Atmos:101KPa Test Engineer: YT

Remark

Kemark	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	—dBu∇	<u>ab</u>		—dBu√	——dBu∇	<u>ab</u>	
1	0.154	26.49	0.12	10.78	37.39	65.78	-28.39	QP
2	0.277	13.67	0.18	10.74	24.59	50.90	-26.31	Average
3	0.369	28.48	0.22	10.73	39.43	58.52	-19.09	QP
1 2 3 4 5 6 7 8 9	0.369	22.13	0.22	10.73	33.08	48.52	-15.44	Average
5	0.461	18.45	0.24	10.75	29.44	46.67	-17.23	Average
6	0.582	28.70	0.28	10.77	39.75	56.00	-16.25	QP
7	0.775	17.75	0.31	10.80	28.86	46.00	-17.14	Average
8	0.844	32.21	0.29	10.82	43.32	56.00	-12.68	QP
9	0.844	18.26	0.29	10.82	29.37	46.00	-16.63	Average
10	1.178	33.34	0.26	10.89	44.49	56.00	-11.51	QP
11	1.585	18.20	0.26	10.93	29.39	46.00	-16.61	Average
12	1.645	33.09	0.26	10.93	44.28	56.00	-11.72	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.



6.2 Radiated Emission

0.2 Radiated Ellission								
Test Requirement:	FCC Part 15 B Section 15.109							
Test Method:	ANSI C63.4:201	4						
Test Frequency Range:	30MHz to 6000f	MHz						
Test site:	Measurement D	istance:	3m (Se	mi-Anechoi	c Chan	nber)		
Receiver setup:	Frequency	Dete		RBW	VB۱		Remark	
	30MHz-1GHz	Quasi-		120kHz	300k		Quasi-peak Value	
	Above 1GHz	Pea RM		1MHz 1MHz	3MF		Peak Value Average Value	
Limit:	Frequenc			(dBuV/m @		12	Remark	
Littit.	30MHz-88MHz 40.0				20111)	(Quasi-peak Value	
				43.5			Quasi-peak Value	
	88MHz-216MHz 43.5 216MHz-960MHz 46.0					Quasi-peak Value		
	960MHz-1GHz 54.0					Quasi-peak Value		
		Above 1GHz 54.0 74.0					Average Value	
	Above 1GF					Peak Value		
Test setup:	Below 1GHz Antenna Tower Search Antenna RF Test Receiver Ground Plane							
	Above 1GHz							
	80CM	E EUT	G Test Recei	3m round Reference Plan	Horn Antenn	Control	Intenna Tower	





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

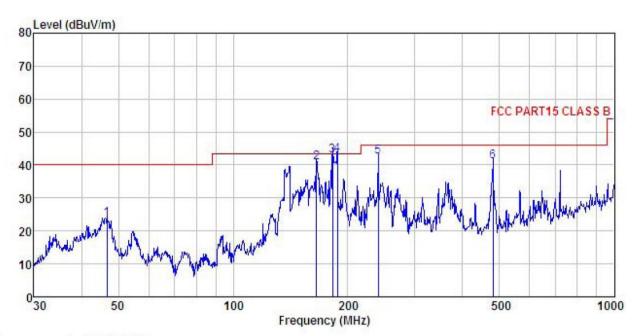




Measurement Data:

Below 1GHz

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M3G) HORIZONTAL : mobile phone Condition

EUT

Model : A1 Test mode : PC Mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C

Huni:55%

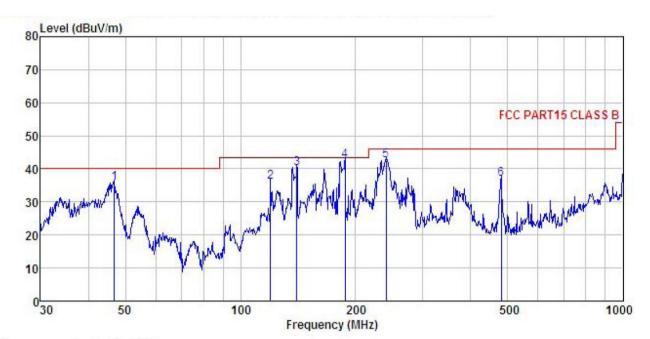
Test Engineer: YT REMARK :

EMAKK	:									
	3 <u>2</u> 0		Antenna				Limit	Over	124 27	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Kemark	
_	MHz	dBu∜	—dB/m	₫B	dB	dBuV/m	dBu√/m	<u>dB</u>		-
1	46.666	35.36	16.83	1.28	29.85	23.62	40.00	-16.38	QP	
2	165.487	57.29	9.84	2.62	29.09	40.66	43.50	-2.84	QP	
3	182.559	59.60	9.32	2.75	28.95	42.72	43.50	-0.78	QP	
4	187.753	59.74	9.57	2.78	28.92	43.17	43.50	-0.33	QP	
5	239.987	56.42	11.80	2.82	28.59	42.45	46.00	-3.55	QP	
6	480.528	49.85	16.57	3.46	28.92	40.96	46.00	-5.04	QP	





Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M3G) VERTICAL Condition

: mobile phone EUT

: A1 : PC Mode Model Test mode Power Rating: AC120V/60Hz
Environment: Temp:25.5°C
Test Engineer: YT
REMARK:

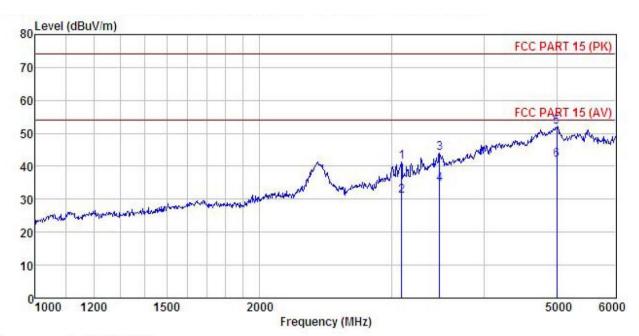
Huni:55%

MARK	:							0.0280000000000000000000000000000000000	
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
_	MHz	dBu∜	dB/m		<u>d</u> B	$\overline{dBuV/m}$	$\overline{dBuV/m}$		
1	46.830	47.53	16.71	1.28	29.85	35.67	40.00	-4.33	QP
1 2 3	119.856	51.58	11.80	2.17	29.39	36.16	43.50	-7.34	QP
3	140.342	55.33	11.70	2.41	29.27	40.17	43.50	-3.33	QP
4	187.753	59.07	9.57	2.78	28.92	42.50	43.50	-1.00	QP
5 6	239.987	56.40	11.80	2.82	28.59	42.43	46.00	-3.57	QP
6	480.528	45.86	16.57	3.46	28.92	36.97	46.00	-9.03	QP



Above 1GHz

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

: mobile phone

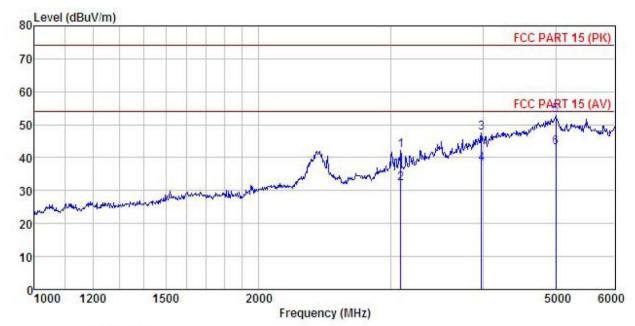
Model : A1
Test mode : PC Mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: YT
REMARK

emar									
	7		Antenna				Limit	Over	D l-
	rreq	rever	Factor	LOSS	ractor	rever	Line	Limit	Kemark
	MHz	dBu₹	dB/m	₫B	₫B	dBuV/m	dBuV/m	<u>dB</u>	
1	3097.433	47.94	26.06	8.02	40.61	41.41	74.00	-32.59	Peak
2	3097.433	37.54	26.06	8.02	40.61	31.01			Average
3	3481.031	47.03	27.76	8.76	39.46	44.09	74.00	-29.91	Peak
4	3481.031	37.53	27.76	8.76	39.46	34.59	54.00	-19.41	Average
5	4999.149	44.34	36.90	10.78	39.98	52.04	74.00	-21.96	Peak
6	4999, 149	34, 18	36, 90	10.78	39, 98	41.88	54,00	-12.12	Average





Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

EUT : mobile phone

Model : A1 Test mode : PC Mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: YT

REMARK

	Freq	ReadAntenna Level Factor		Cable Preamp Loss Factor				Over Limit	Remark	
-	MHz	dBu∀	<u>dB</u> /π		<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>		
1	3097.433	48.73	26.06	8.02	40.61	42.20	74.00	-31.80	Peak	
2	3097.433	38.62	26.06	8.02	40.61	32.09	54.00	-21.91	Average	
2	3973.512	47.19	32.01	9.57		47.67	74.00	-26.33	Peak	
4	3973.512	37.69	32.01	9.57	41.10	38.17	54.00	-15.83	Average	
5	4999.149	45.02	36.90	10.78	39.98					
6	4999.149	35.29	36.90	10.78	39.98	42.99	54.00	-11.01	Average	