Report No: CCISE170305606

FCC REPORT

Applicant: Plus One Marketing Ltd.

Address of Applicant: Sumitomofudosan Hibiya, Building 2F, 2-8-6 Nishi-Shimbashi,

Minatoku, Tokyo, 107-0053, JAPAN

Equipment Under Test (EUT)

Product Name: mobile phone

Model No.: FTE171A

Trade mark: FREETEL

FCC ID: 2AG5L-FTE171A

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 22 Mar., 2017

Date of Test: 22 Mar., to 19 Apr., 2017

Date of report issued: 20 Apr., 2017

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	20 Apr., 2017	Original

Tested by:

Covey Chen Date: 20 Apr., 2017

Test Engineer

Reviewed by: Date: 20 Apr., 2017

Project Engineer





3 Contents

			Page
1	С	COVER PAGE	1
2	٧	/ERSION	2
3	С	CONTENTS	3
4	Т	EST SUMMARY	4
5	G	GENERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF E.U.T.	5
	5.3	TEST MODE	
	5.4	MEASUREMENT UNCERTAINTY	5
	5.5	DESCRIPTION OF SUPPORT UNITS	
	5.6	LABORATORY FACILITY	6
	5.7	LABORATORY LOCATION	6
	5.8	TEST INSTRUMENTS LIST	7
6	Т	EST RESULTS AND MEASUREMENT DATA	
	6.1	CONDUCTED EMISSION	
	6.2	RADIATED EMISSION	11
7	Т	EST SETUP PHOTO	17
8	F	EUT CONSTRUCTIONAL DETAILS	18





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:	Plus One Marketing Ltd.
Address of Applicant:	Sumitomofudosan Hibiya, Building 2F, 2-8-6 Nishi-Shimbashi, Minatoku, Tokyo, 107-0053, JAPAN
Manufacturer	Shenzhen Wellstec Communications Co.,Ltd
Address of Manufacturer:	No. 707, 7th floor, B building., CR city, the park of science and technology, Nanshan district, shenzhen, China

5.2 General Description of E.U.T.

Product Name:	mobile phone
Model No.:	FTE171A
Power supply:	Rechargeable Li-ion Battery DC3.8V-2100mAh
	Model: UT-051A-5065
AC adapter :	Input: AC100-240V 50/60Hz 0.2A
	Output: DC 5.0V, 1000mA

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: CCISE170305606

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	IITOR E178FPC		DoC
DELL	DELL KEYBOARD		N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
HP	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		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	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	02-25-2017	02-24-2018			
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	02-25-2017	02-24-2018			
4	Pre-amplifier (10kHz-1.3GHz)		8447D	CCIS0003	02-25-2017	02-24-2018			
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	02-25-2017	02-24-2018			
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	02-25-2017	02-24-2018			
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	02-25-2017	02-24-2018			
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
9	Coaxial Cable	N/A	N/A	CCIS0018	02-25-2017	02-24-2018			
10	Coaxial Cable	N/A	N/A	CCIS0020	02-25-2017	02-24-2018			

Cond	Conducted Emission:									
Item	Test 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	08-23-2014	08-22-2017				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	02-25-2017	02-24-2018				
3	LISN	CHASE	MN2050D	CCIS0074	02-25-2017	02-24-2018				
4	Coaxial Cable	CCIS	N/A	CCIS0086	02-25-2017	02-24-2018				
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A				



6 Test results and Measurement Data

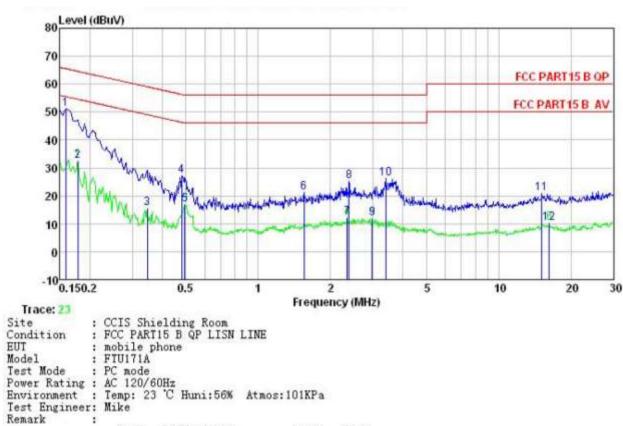
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10	07					
Test Method:	ANSI C63.4:2014						
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz					
Class / Severity:	Class B						
Receiver setup:	RBW=9kHz, VBW=30kHz						
Limit:	Frequency range (MHz)	Lir	mit (dBµV)				
	. , , ,	Quasi-peak		verage			
	0.15-0.5	66 to 56*	56	to 46*			
	0.5-5	56		46			
	0.5-30	60		50			
	* Decreases with the logarith	m of the frequency					
Test setup:	Reference Plan	ne					
	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.) pedance for the mean ealso connected to ohm/50uH coupling to the block diagrate checked for maximal the maximum end all of the interface	i. The provide asuring equipot the main power impedance warm of the test mum conduct inission, the received and the cables must	e a ment. wer through with 50ohm setup and ed elative be changed			
Test environment:	Temp.: 23 °C Hun	nid.: 56%	Press.:	101kPa			
Test Instruments:	Refer to section 5.7 for detail	ils					
Test mode:	Refer to section 5.3 for details						
	Pass						



Measurement data:

Line:



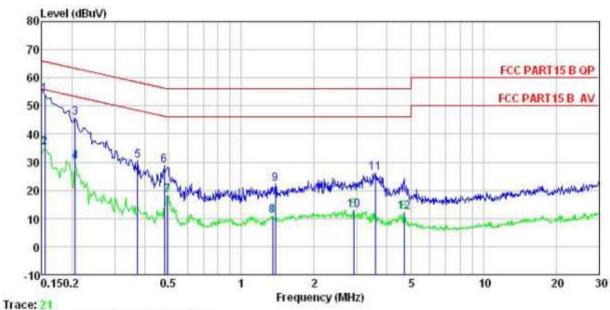
Remark	: Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	₫₿	₫B	dBu∜	dBuV	₫B	
1	0.158	51.13	0.14	0.00	51.27	65.56	-14.29	QP
2	0.178	32.44	0.15	0.00	32.59	54.59	-22.00	Average
3	0.346	15.29	0.20	0.00	15.49	49.05	-33.56	Average
1 2 3 4 5 6 7 8 9	0.481	26.98	0.24	0.00	27.22	56.32	-29.10	QP
5	0.497	16.59	0.24	0.00	16.83	46.05	-29.22	Average
6	1.552	20.86	0.30	0.00	21.16	56.00	-34.84	QP
7	2.346	11.79	0.32	0.00	12.11	46.00	-33.89	Average
8	2.384	24.91	0.33	0.00	25.24	56.00	-30.76	QP
9	2.978	11.67	0.33	0.00	12.00	46.00	-34.00	Average
10	3.381	25.70	0.34	0.00	26.04	56.00	-29.96	QP
11	15.146	20.59	0.25	0.00	20.84	60.00	-39.16	QP
12	16.226	10.00	0.27	0.00	10.27	50.00	-39.73	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.



Neutral:



Site

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

: mobile phone EUT Test Mode : PC mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: Mike
Remark

Remark

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	₫B	₫B	dBu₹	dBu∜	dB	
1	0.154 0.154	54.05 35.01	0.12 0.12	0.00	54.17 35.13	A TOTAL TOTAL STATE OF	-11.61 -20.65	QP Average
3	0.206	45.53	0.15	0.00	45.68	63.36	-17.68	QP
5	0.206 0.373	29.88 30.33	0.15 0.22	0.00	30.03 30.55	58.43	-27.88	
6	0.481	28.57 17.82	0.24	0.00	28.81 18.06		-27.51 -27.99	QP Average
2 3 4 5 6 7 8 9	1.345	10.57	0.26	0.00	10.83	74 C / C / C / C / C / C / C / C / C / C	-35.17 -33.67	Average
10 11	2.915	12.56 25.96	0.30	0.00	12.86 26.29	46.00		Average
12	4.696	11.85	0.33	0.00	12.18			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

0.2 Radiated Ellission									
Test Requirement:	FCC Part 15 B Section 15.109								
Test Method:	ANSI C63.4:201	14							
Test Frequency Range:	30MHz to 26000	OMHz							
Test site:	Measurement D	istance:	3m (Se	mi-Anechoi	c Chan	nber)			
Receiver setup:	Frequency	Dete	ctor	RBW	VB\		Remark		
	30MHz-1GHz	Quasi-		120kHz	300k		Quasi-peak Value		
	Above 1GHz	Pea RM		1MHz	3MF		Peak Value		
Limit:	Frequenc			1MHz (dBuV/m @		7 <u>Z</u>	Average Value Remark		
Littit.	30MHz-88M		LIIIII	40.0	<i>(</i> 3111)	(Quasi-peak Value		
	88MHz-216N			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	∃z		74.0			Peak Value		
Test setup:	Below 1GHz			- T	Antenna	Tower			
	Search Antenna Turn 0.8m 1m Table 0.8m 1m Ground Plane								
	Above 1GHz								
	SAVANAVA SOCIETA	Artenna Tower (Turntable) Ground Reference Plane Test Receiver D D Argaser Controller							





Took Droop dure.	4 71 - 510	T!- '				(
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. 							
	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 se	ection 5.7 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							

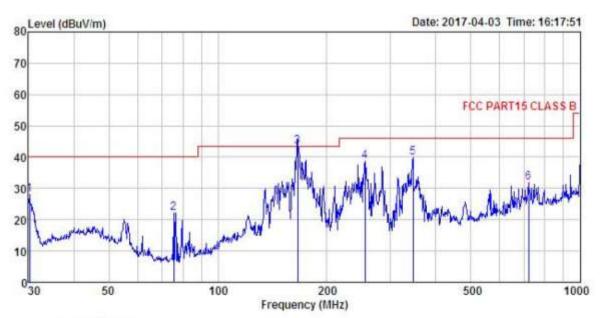




Measurement Data:

Below 1GHz

Horizontal:



Site

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

EUT : FTU171A : F10171A
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Carey
REMARK Model

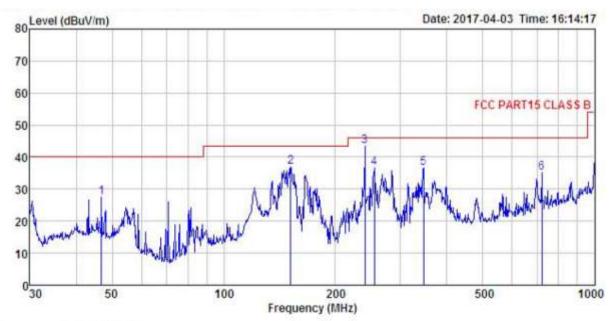
REMARK

Freq		ReadAntenna Freq Level Factor						Over Limit	Remark
	MHz	dBu₹	─dB/m	₫B	<u>dB</u>	dBuV/n	dBuV/m	−−−dB	
1.	30, 211	45.38	12.03	0.72	29.98	28.15	40.00	-11.85	QP
2	75.446	43.80	6.31	1.63	29.68	22.06	40.00	-17.94	QP
2 3	166.068	59.89	9.84	2.63	29.08	43.28	43.50	-0.22	QP
4 5 6	254.728	52.64	11.81	2.82	28.53	38.74	46.00	-7.26	QP
5	345.595	51.26	14.02	3.08	28.55	39.81	46.00	-6.19	QP
6	721.726	36.35	19.76	4.26	28.58	31.79	46.00	-14.21	QP





Vertical:



Site

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

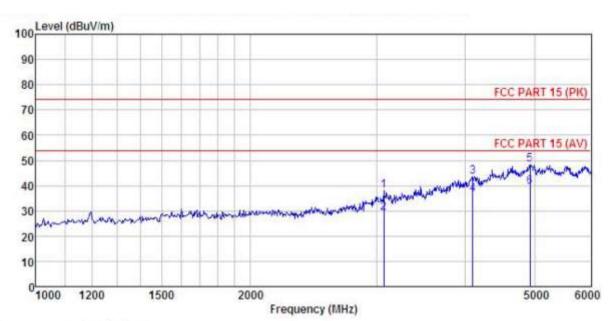
EUT Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Carey
REMARK :

TEMPTON .									
	Freq		Antenna Factor						
-	MHz	₫₿u₹	$\overline{-dB/m}$	dB	dB	dBuV/m	dBuV/m	dB	
1	46.830	39.39	16.71	1.28	29.85	27.53	40.00	-12.47	QP
2	151.597	52.92	10.53	2.53	29.21	36.77	43.50	-6.73	QP
3	239.987	57.22	11.80	2.82	28.59	43.25	46.00	-2.75	QP
4	254.728	50.40	11.81	2.82	28.53	36.50	46.00	-9.50	QP
5	345.595	47.94	14.02	3.08	28.55	36.49	46.00	-9.51	QP
6	721.726	39.58	19.76	4.26	28.58	35.02	46.00	-10.98	QP



Above 1GHz

Horizontal:



Site

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

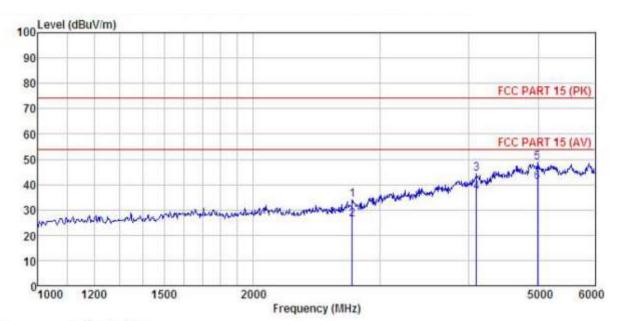
EUT Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55% 101KPa
Test Engineer: Mike
REMARK

REMARK	1000		Antenna Factor				Limit	Over Limit	
1.5	MHz	₫₿u₹	dB/m	dB		dBuV/n		dB	
1	3075.395	47.96	25.97		41.47		74.00		
	3075.395	39.20							Average
	4096.425				41.81		74.00		
4	4096, 425								Average
5	4926.683				41.86				
6	4926.683	37.80	36.58	6.89	41.86	39.41	54.00	-14.59	Average





Vertical:



Site

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

: FTU171A Test mode : PC mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55% 101KPa Test Engineer: Mike REMARK : EUT : mobile phone

EMAI	: A								
	Freq		Antenna Factor						
	MHz	dBuV	dB/m	₫B	₫B	dBuV/m	dBuV/m	d₿	
1	2747.118				20110			-40.04	
2	2747.118		24.70						Average
3	4096.425			0.00		44.27			The second secon
4	4096.425	39.60	32.74						Average
5	4988.864	46.76	36.84	6.93	41.88	48.65	74.00	-25, 35	Peak
6	4988, 864	38, 90	36.84	6.93	41.88	40.79	54.00	-13.21	Average