FCC Test Report

APPLICANT : Planet Avvio LLC

EQUIPMENT: Mobile Phone

BRAND NAME : Mint

MODEL NAME : M340, M341, MINT M340, MINT M341

FCC ID : 2ALTAM340X

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was completed on Jul. 21, 2017. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.



Sporton International (Shenzhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City
Guangdong Province 518055 China

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Report No.: FC770507

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC770507	Rev. 01	Initial issue of report	Aug. 18, 2017

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
2.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	5.46 dB at
					0.15 MHz
					Under limit
3.2	15.109	5.109 Radiated Emission	< 15.109 limits	PASS	3.71 dB at
					551.86 MHz
					for Quasi-Peak

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1. General Description

1.1. Applicant

Planet Avvio LLC

9725 NW 117th Ave., Medley, FL 33178, United States

1.2. Manufacturer

Heng Da Chuang Xin Technology Limited

Rm 1301 Block D, Tianan Cloud Pack Building 3th, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, P. R. C. 518000

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Phone
Brand Name	Mint
Model Name	M340, M341, MINT M340, MINT M341
FCC ID	2ALTAM340X
	GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+
EUT supports Radios application	WLAN2.4G 802.11b/g/n HT20
	Bluetooth v2.1+EDR
HW Version	1611_V2
SW Version	Mint_M340_V1.00
EUT Stage	Production Unit

Remark:

- **1.** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. This project is FCC change ID application and changed single SIM card slot to dual SIM card slots, Brand Name, Model Name and SW Version that comply with FCC C1PC rule. Based on the similarity between two products, only the worst cases were verified; all test cases were performed on original report which can be referred to Sporton Report Number FC770404, FCC ID: 2ALTA400X.
- For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio
 transmission will be enabled by either one SIM at a time (single active). After pre-scan two SIM
 cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all
 the worst cases.

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1.4. Product Specification of Equipment Under Test

Standards-related Product Specification					
GSM850: 824.2 MHz ~ 848.8 MHz					
GSM1900: 1850.2 MHz ~ 1909.8MHz					
WCDMA Band V: 826.4 MHz ~ 846.6 MHz					
WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz					
802.11b/g/n: 2412 MHz ~ 2462 MHz					
Bluetooth: 2402 MHz ~ 2480 MHz					
GSM850: 869.2 MHz ~ 893.8 MHz					
GSM1900: 1930.2 MHz ~ 1989.8 MHz					
WCDMA Band V: 871.4 MHz ~ 891.6 MHz					
WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz					
802.11b/g/n: 2412 MHz ~ 2462 MHz					
Bluetooth: 2402 MHz ~ 2480 MHz					
GPS: 1.57542 GHz					
WWAN : Monopole Antenna					
WLAN : Monopole Antenna					
Bluetooth : Monopole Antenna					
GSM: GMSK					
GPRS: GMSK					
EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK					
WCDMA: BPSK (Uplink)					
HSDPA: QPSK (Uplink)					
HSUPA: QPSK (Uplink)					
HSPA+: 16QAM					
802.11b: DSSS (DBPSK / DQPSK / CCK)					
802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)					
Bluetooth (1Mbps) : GFSK					
Bluetooth (2Mbps) : π /4-DQPSK					
Bluetooth (3Mbps) : 8-DPSK					
GPS : BPSK					

1.5. Modification of EUT

No modifications are made to the EUT during all test items.

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1.6. Test Location

Sporton Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No are CN5018 and CN5019.

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Test Site	Sporton International (Shenzhen) Inc.			
Test Site Location 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan S City Guangdong Province 518055 China TEL: +86-755-8637-9589				
	FAX: +86-755-8637-9595			
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.		
rest site No.	CO01-SZ	251365		

Test Site	Sporton International (Shenzhen) Inc.			
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan District Shenzhen City Guangdong Province 518055 China TEL: +86-755-3320-2398			
T40% N-	Sporton Site No. FCC Test Firm Registration No.			
Test Site No.	03CH01-SZ	577730		

Note: The test site complies with ANSI C63.4 2014 requirement.

1.7. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2014

Remark:

 All test items were verified and recorded according to the standards and without any deviation during the test.

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Test Configuration of Equipment Under Test

1.8. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
	Mode 1: GSM850 Idle + USB Cable(Charging from Adapter) + Earphone + Bluetooth Idle + WLAN Idle(2.4G) + Camera(Rear) < fig1>
AC Conducted	Mode 2: GSM1900 Idle + USB Cable(Charging from Adapter) + Earphone + Bluetooth Idle + WLAN Idle(2.4G) + Camera(Front)<
Emission for single SIM card mobile	Mode 3: WCDMA Band V Idle + USB Cable(Charging from Adapter) + Earphone + Bluetooth Idle + WLAN Idle(2.4G) + MP4 <fig1></fig1>
	Mode 4: WCDMA Band II Idle + USB Cable(Data Link from Notebook) + Earphone + Bluetooth Idle + WLAN Idle(2.4G) + GPS RX <fig2></fig2>
AC Conducted Emission for dual SIM card mobile	Mode 5: WCDMA Band II Idle + USB Cable(Data Link from Notebook) + Earphone + Bluetooth Idle + WLAN Idle(2.4G) + GPS RX + SIM1 <fig2></fig2>
	Mode 1: GSM850 Idle + USB Cable(Charging from Adapter) + Earphone + Bluetooth Idle + WLAN Idle(2.4G) + Camera(Rear) <fig1></fig1>
Radiated Emissions < 1GHz	Mode 2: GSM1900 Idle + USB Cable(Charging from Adapter) + Earphone + Bluetooth Idle + WLAN Idle(2.4G) + Camera(Front) <fig1></fig1>
for single SIM card mobile	Mode 3: WCDMA Band V Idle + USB Cable(Charging from Adapter) + Earphone + Bluetooth Idle + WLAN Idle(2.4G) + MP4 <fig1></fig1>
	Mode 4: WCDMA Band II Idle + USB Cable(Data Link from Notebook) + Earphone + Bluetooth Idle + WLAN Idle(2.4G) + GNSS RX <fig2></fig2>
Radiated Emissions < 1GHz for dual SIM card mobile	Mode 5: GSM850 Idle + USB Cable(Charging from Adapter) + Earphone + Bluetooth Idle + WLAN Idle(2.4G) + Camera(Rear) + SIM1 <fig1></fig1>
Radiated	Mode 1: GSM850 Idle + USB Cable(Charging from Adapter) + Earphone + Bluetooth Idle + WLAN Idle(2.4G) + Camera(Rear) <fig1></fig1>
Emissions ≥ 1GHz	Mode 2: WCDMA Band II Idle + USB Cable(Data Link from Notebook) + Earphone + Bluetooth Idle + WLAN Idle(2.4G) + GPS RX <fig2></fig2>

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Remark:

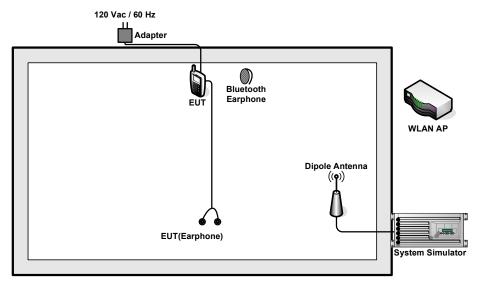
- 1. The worst case of AC is mode 4, only the test data of the mode was reported.
- 2. The worst case of RE < 1G is mode 1; and data link mode is mode 4, the test data of these modes were reported.
- Data Link with Notebook means data application transferred mode between EUT and Notebook

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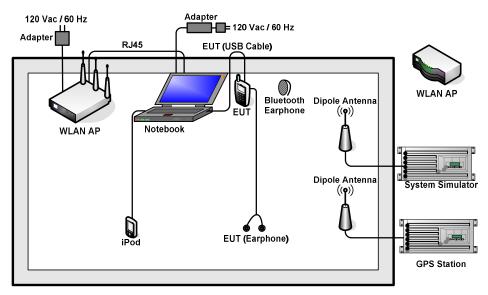
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1.9. Connection Diagram of Test System



<fig1>



<fig2>

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1.10. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	GPS Station	ADIVIE	MP9000	N/A	N/A	Unshielded,1.8m
3.	WLAN AP	D-Link	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
4.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
5.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
6.	Bluetooth Earphone	Samsung	HS3000	A3LHS3000	N/A	N/A
7.	iPod nano 8GB	Apple	MC690ZP/A	FCC DoC	Shielded, 1.2m	N/A
8.	iPod	Apple	MC525 ZP/A	DoC	Shielded, 1.0m	N/A
9.	NOTE BOOK	Lenovo	E450	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
10.	NOTE BOOK	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m
11.	SD Card	N/A	MicroSD HC	FCC DoC	N/A	N/A
12.	SD Card	Kingston	MicroSD HC	FCC DoC	N/A	N/A

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1.11. EUT Operation Test Setup

The EUT was in GSM or WCDMA idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between Notebook and EUT via USB cable.
- 2. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
- 3. Execute "Video Player" to play MPEG4 files.
- 4. Turn on camera to capture images.

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2. Test Result

2.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission	Conducted limit (dBuV)				
(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

^{*}Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

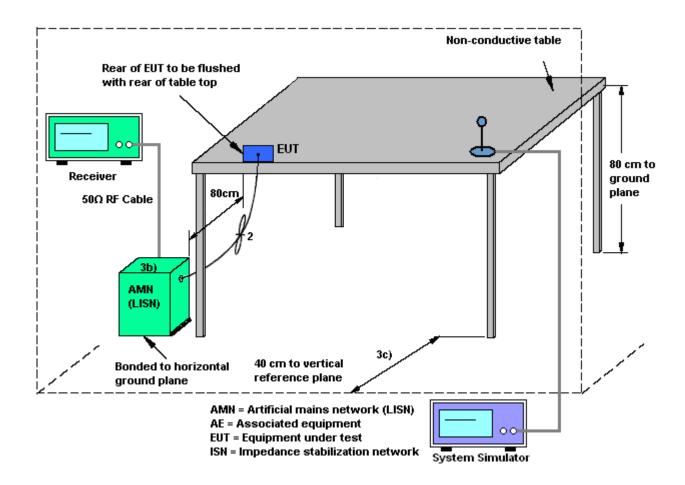
- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least
 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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3.1.4 Test Setup

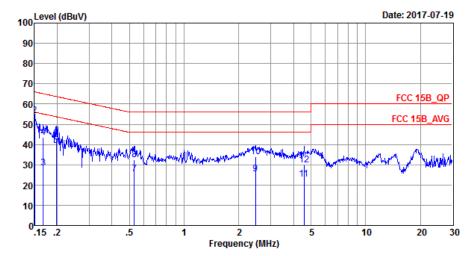


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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 4	Temperature :	22~25℃		
Test Engineer :	НаоНаі ҮЕ	Relative Humidity :	50~55%		
Test Voltage :	120Vac / 60Hz	Phase :	Line		
Function Type	WCDMA Band II Idle + USB Cable(Data Link from Notebook) + Earphone +				
Function Type :	Bluetooth Idle + WLAN Idle(2.4G) + GPS RX				



Site : CO01-SZ Condition: FCC 15B_QP LISN_20170301_L LINE

Project : (FC) 770404

Mode : Mode 4
IMEI : 867400020316612/86740020316620

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBu₹	dB	dBuV	dBu₹	dB	dB	
1 *	0.15	50.54	-5.46	56.00	40.10	0.03	10.41	Average
2	0.15	54.14	-11.86	66.00	43.70	0.03	10.41	QP
3	0.17	28.27	-26.81	55.08	17.90	0.03	10.34	Average
4	0.17	43.67	-21.41	65.08	33.30	0.03	10.34	QP
5	0.20	39.46	-14.25	53.71	29.20	0.03	10.23	Average
6	0.20	43.36	-20.35	63.71	33.10	0.03	10.23	QP
7	0.53	25.30	-20.70	46.00	15.10	0.02	10.18	Average
8	0.53	32.60	-23.40	56.00	22.40	0.02	10.18	QP
9	2.47	25.62	-20.38	46.00	15.29	0.14	10.19	Average
10	2.47	34.02	-21.98	56.00	23.69	0.14	10.19	QP
11	4.57	23.05	-22.95	46.00	12.60	0.18	10.27	Average
12	4.57	30.05	-25.95	56.00	19.60	0.18	10.27	QP

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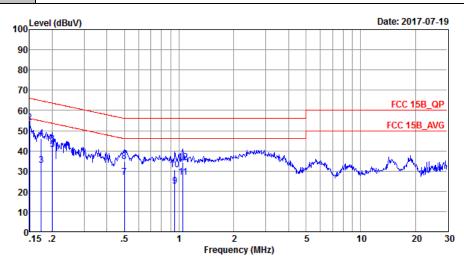
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Test Mode :	Mode 4	Temperature :	22~25 ℃
Test Engineer :	НаоНаі ҮЕ	Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
	GSM1900 Idle + LISB Cable(Charging from Adapter) + Farnhone + Bluetooth Idle		

:M1900 Idle + USB Cable(Charging from Adapter) + Earphone + Bluetooth Idle Function Type: + WLAN Idle(2.4G) + Camera(Front)



: CO01-SZ

Condition: FCC 15B_QP LISN_20170301_N NEUTRAL

Project : (FC)770404 Mode : Mode 4

: 867400020316612/86740020316620 IMEI

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
_	MHz	dBu₹	dB	dBu∀	dBu∀	dB	dB	
1 *	0.15	50.14	-5.86	56.00	39.70	0.03	10.41	Average
2	0.15	53.74	-12.26	66.00	43.30	0.03	10.41	QP
3	0.17	32.74	-22.03	54.77	22.40	0.03	10.31	Average
4	0.17	46.14	-18.63	64.77	35.80	0.03	10.31	QP
5	0.20	40.55	-13.03	53.58	30.30	0.03	10.22	Average
6	0.20	43.15	-20.43	63.58	32.90	0.03	10.22	QP
7	0.50	27.00	-19.01	46.01	16.80	0.02	10.18	Average
8	0.50	34.70	-21.31	56.01	24.50	0.02	10.18	QP
9	0.95	22.60	-23.40	46.00	12.40	0.05	10.15	Average
10	0.95	30.80	-25.20	56.00	20.60	0.05	10.15	QP
11	1.05	26.90	-19.10	46.00	16.70	0.05	10.15	Average
12	1.05	34.30	-21.70	56.00	24.10	0.05	10.15	QP

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2.2. Test of Radiated Emission Measurement

2.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency	Field Strength	Measurement Distance	
(MHz)	(microvolts/meter)	(meters)	
30 – 88	100	3	
88 – 216	150	3	
216 - 960	200	3	
Above 960	500	3	

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

2.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

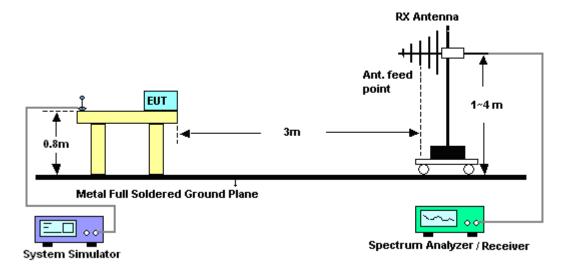
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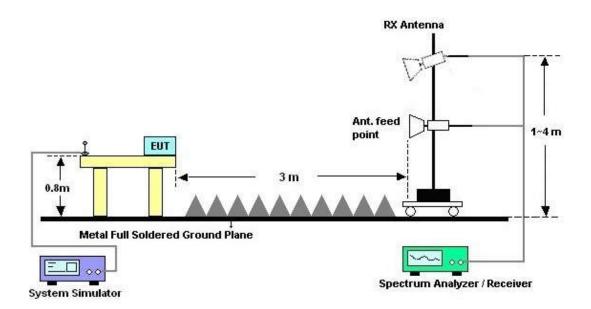
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2.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



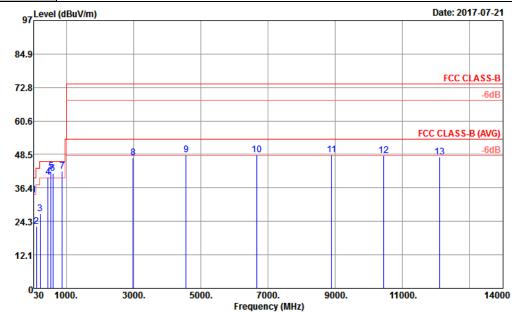
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2.2.5. Test Result of Radiated Emission

Test Mode :	Mode 1	Temperature :	24~25°C		
Test Engineer :	Clear Peng	Relative Humidity :	48~49%		
Test Distance :	3m	Polarization :	Horizontal		
Eupotion Type :	GSM850 Idle + USB Cable(Charging from Adapter) + Earphone + Bluetooth Idle +				
Function Type :	WLAN Idle(2.4G) + Camera(Rear)				
Remark :	#7 is system simulator signal which can be ignored.				



Site : 03CH01-SZ

Condition : FCC CLASS-B 3m HF_ANT_9120D_1355_03 HORIZONTAL

Mode

: Mode 1 : 867400020316612/867400020316620 IMEI

Plane

Over Limit Read Freq Level Limit Line Level Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m 30.00 33.82 -6.18 40.00 38.69 -4.87 Peak 22.47 -21.03 114.39 43.50 34.08 -11.61 Peak 27.11 -18.89 224.00 3 46.00 39.75 -12.64 Peak -5.66 -3.71 46.00 455.83 40.34 44.72 -4.38 Peak 551.86 42.29 46.00 46.52 -4.23 QP 600.36 41.64 -4.36 46.00 45.13 -3.49 Peak 42.34 47.39 -26.61 881.66 41.74 0.60 Peak 2990.00 74.00 66.75 -19.36 Peak 48.24 -25.76 4564.00 74.00 63.38 -15.14 Peak 6674.00 48.28 -25.72 74.00 55.93 -7.65 Peak 8898.00 48.24 -25.76 74.00 53.37 -5.13 Peak 48.05 -25.95 47.61 -26.39 12 10438.00 74.00 50.17 -2.12 Peak -3.03 Peak 74.00 50.64 12120.00

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Report No.: FC770507

24~25°C Test Mode: Mode 1 Temperature: Test Engineer: Clear Peng **Relative Humidity:** 48~49% Test Distance: Polarization: 3m Vertical GSM850 Idle + USB Cable(Charging from Adapter) + Earphone + Bluetooth Idle + Function Type: WLAN Idle(2.4G) + Camera(Rear) Remark: #7 is system simulator signal which can be ignored. 97 Level (dBuV/m) Date: 2017-07-21 84.9 FCC CLASS-B 72.8 60.6 FCC CLASS-B (AVG) 10 48.5 12.1 0<mark>30</mark> 11000. 14000 1000. 3000. 5000. 7000. 9000. Frequency (MHz) : 03CH01-SZ Site Condition : FCC CLASS-B 3m HF_ANT_9120D_1355_03 VERTICAL Mode : Mode 1 IMEI : 867400020316612/867400020316620 Plane Over Limit Read Freq Level Limit Line Level Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m 30.00 34.80 -5.20 40.00 39.67 -4.87 Peak 78.50 21.86 -18.14 40.00 37.03 -15.17 Peak 20.72 -25.28 278.32 46.00 31.91 -11.19 Peak 37.36 -8.64 504.33 46.00 42.85 -5.49 Peak 45.32 -4.23 Peak 551.86 41.09 46.00 600.36 36.29 -9.71 46.00 39.78 -3.49 Peak

38.98

62.66

53.84

51.32

50.42

74.00

74.00

74.00

74.00

74.00

74.00

0.60 Peak

-15.05 Peak -7.65 Peak

-5.43 Peak

-3.37 Peak

-2.21 Peak

67.02 -19.36 Peak

39.58

47.66 -26.34

47.61 -26.39

48.49 -25.51

48.41 -25.59 47.95 -26.05

48.21 -25.79

881.66

2988.00

4590.00

6670.00

8334.00

9888.00

11910.00

12

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Report Template No.: BU5-FD15B Version 1.3

24~25°C Test Mode: Mode 4 Temperature: Test Engineer: Clear Peng **Relative Humidity:** 48~49% Test Distance : Polarization: 3m Horizontal WCDMA Band II Idle + USB Cable(Data Link from Notebook) + Earphone + Function Type: Bluetooth Idle + WLAN Idle(2.4G) + GNSS RX Remark: #7 is system simulator signal which can be ignored. 97 Level (dBuV/m) Date: 2017-07-21 84.9 FCC CLASS-B 72.8 -6dB 60.6 FCC CLASS-B (AVG) 48.5 36.4 24.3 12.1 0<mark>3</mark>0 1000. 3000. 5000. 7000. 9000. 11000. 14000 Frequency (MHz) Site : 03CH01-SZ Condition : FCC CLASS-B 3m HF_ANT_9120D_1355_03 HORIZONTAL Mode : Mode 4 : 867400020316612/867400020316620 IMEI Plane Over Limit Freq Level Limit Line Level Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m 31.35 25.65 -14.35 40.00 30.80 -5.15 Peak 199.83 26.63 -16.87 43.50 40.11 -13.48 Peak 32.22 -13.78 46.00 299.73 42.98 -10.76 Peak 34.33 -11.67 46.00 321.00 44.21 -9.88 Peak 400.10 30.99 -15.01 46.00 35.99 -5.00 Peak 498.10 29.83 -16.17 35.38 -5.55 Peak 1878.00 61.93 87.50 -25.57 Peak 46.69 -27.31 74.00 2520.00 68.86 -22.17 Peak 4362.00 48.17 -25.83 74.00 64.18 -16.01 Peak 6880.00 48.22 -25.78 74.00 55.96 -7.74 Peak

12

8514.00 47.87 -26.13

10954.00

47.84 -26.16

12836.00 47.58 -26.42 74.00

74.00

74.00

52.82

48.77

51.96

-4.95 Peak

-0.93 Peak

-4.38 Peak

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24~25°C Test Mode: Mode 4 Temperature: Test Engineer: Clear Peng **Relative Humidity:** 48~49% Test Distance: Polarization: 3m Vertical WCDMA Band II Idle + USB Cable(Data Link from Notebook) + Earphone + Function Type: Bluetooth Idle + WLAN Idle(2.4G) + GNSS RX Remark: #7 is system simulator signal which can be ignored. 97 Level (dBuV/m) Date: 2017-07-21 84.9 FCC CLASS-B 72.8 -6dB 60.6 FCC CLASS-B (AVG) 48.5 36.4 24.3 12.1 1000. 3000. 5000. 7000. 9000. 11000. 14000 Frequency (MHz) : 03CH01-SZ Site Condition : FCC CLASS-B 3m HF_ANT_9120D_1355_03 VERTICAL Mode : Mode 4 : 867400020316612/867400020316620 TMET Plane | Over Limit Read Freq Level Limit Line Level Factor Remark MHz dBuV/m dB dBuV/m dBuV dB/m 30.27 25.89 -14.11 40.00 30.76 -4.87 Peak 220.62 34.06 -11.94 46.00 46.81 -12.75 Peak 299.73 28.80 -17.20 46.00 39.56 -10.76 Peak 31.80 -14.20 481.30 46.00 36.86 -5.06 Peak 31.98 -14.02 46.00 638.10 34.90 -2.92 Peak 698.30 33.36 -12.64 34.84 46.00 -1.48 Peak 1880.00 59.35 84.92 -25.57 Peak 2590.00 47.13 -26.87 47.40 -26.60 74.00 69.04 -21.91 Peak

4554.00

6644.00

8334.00

10436.00

10

46.45 -27.55

48.41 -25.59

47.84 -26.16

11766.00 47.99 -26.01 74.00

74.00

74.00

74.00

74.00

62.61 -15.21 Peak

-7.69 Peak

-5.43 Peak

-2.12 Peak

-1.70 Peak

54.14

53.84

49.96

49.69

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3. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristic s	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jan.06, 2017	Jul. 19, 2017	Jan. 05, 2018	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Jan.05, 2017	Jul. 19, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103892	9kHz~30MHz	Jan.05, 2017	Jul. 19, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Va c	Jul. 19, 2017	Jul. 19, 2017	Jul. 18, 2018	Conduction (CO01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GH z	Apr. 20, 2017	Jul. 21, 2017	Apr. 19, 2018	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz-2GHz	Apr. 25, 2017	Jul. 21, 2017	Apr. 24, 2018	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Nov. 19, 2016	Jul. 21, 2017	Nov. 18, 2017	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 20, 2017	Jul. 21, 2017	Apr.19, 2018	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1707137	1GHz~18GHz	Oct. 11, 2016	Jul. 21, 2017	Oct 10, 2017	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Jul. 21, 2017	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jul. 21, 2017	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jul. 21, 2017	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required.

Sporton International (Shenzhen) Inc.

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4. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

	4
Measuring Uncertainty for a Level of	2.5dB
Confidence of 95% (U = 2Uc(y))	2.50B

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1GHz)</u>

Measuring Uncertainty for a Level of	E 44D
Confidence of 95% (U = 2Uc(y))	5.1dB

<u>Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)</u>

Measuring Uncertainty for a Level of	5.2dB
Confidence of 95% (U = 2Uc(y))	5.2ub

Sporton International (Shenzhen) Inc.

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