

FCC Test Report

Brightstar Corporation
GSM Mobile Phone
Avvio, MEU
Avvio 938S / MEU TN101 / Avvio 938W
WVBA938W
FCC 47 CFR FCC Part 15 Subpart B
Certification

The product was received on Jan. 07, 2014 and testing was completed on Jan. 22, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown to be compliant 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.

Louis Wu

Reviewed by: Louis Wu / Manager

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Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL (SHENZHEN) INC.

No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC410703	Rev. 01	Initial issue of report	Feb. 18, 2014



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
					Under limit
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	1.11 dB at 2.850 MHz
					Under limit
					2.16 dB at
3.2	15.109 Radiated En	Radiated Emission	< 15.109 limits	PASS	491.720 MHz for
					Quasi-Peak



1. General Description

1.1. Applicant

Brightstar Corporation

9725 NW 117th Ave., Miami, Florida, FL 33178, United States

1.2. Manufacturer

Lakia Networks Co., Ltd.

2F, Unit A, Technology Service Building, Software Garden 1, Xiamen, Fujian, China

1.3. Feature of Equipment Under Test

	Product Feature
Equipment	GSM Mobile Phone
Brand Name	Avvio, MEU
Model Name	Avvio 938S / MEU TN101 / Avvio 938W
FCC ID	WVBA938W
EUT supports Radios application	GSM/WLAN2.4GHz 802.11b/g/Bluetooth v3.0 + EDR
EUT Stage	Identical Prototype

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. There are three types of EUT for this project. The differences between them are summary below:

Sample List	Model name	Brand name	SIM Slots
Sample 1	Avvio 938S	Avvio	2
Sample 2	MEU TN101	MEU	2
Sample 3	Avvio 938W	Avvio	1

Sample 1 and sample 2 are identical on hardware. The only difference is for different market purpose.



1.4. Product Specification of Equipment Under Test

Product Specification subjective to this standard				
	GSM850 : 824.2 MHz ~ 848.8 MHz			
Tx Frequency	GSM1900 : 1850.2 MHz ~ 1909.8MHz			
TXTrequency	802.11b/g: 2412 MHz ~ 2462 MHz			
	Bluetooth: 2402 MHz ~ 2480 MHz			
	GSM850 : 869.2 MHz ~ 893.8 MHz			
By Fraguanay	GSM1900 : 1930.2 MHz ~ 1989.8 MHz			
Rx Frequency	802.11b/g: 2412 MHz ~ 2462 MHz			
	Bluetooth: 2402 MHz ~ 2480 MHz			
	WWAN : PIFA Antenna			
Antenna Type	WLAN : PIFA Antenna			
	Bluetooth : FPC Antenna			
	GSM: GMSK			
Type of Medulation	802.11b : DSSS (DBPSK / DQPSK / CCK)			
Type of Modulation	802.11g : OFDM (BPSK / QPSK / 16QAM / 64QAM)			
	Bluetooth v3.0 + EDR : GFSK, π /4-DQPSK, 8-DPSK			



1.5. Modification of EUT

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

1.6. Test Site

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.			
No. 3 Building, the third floor of south, Shahe River west, FengzTest Site Locationwarehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.				
	TEL: +86-755- 3320-2	2398		
Test Site No	Sporton	Site No.	FCC Registration No.	
Test Site No.	CO01-SZ	03CH01-SZ	831040	

1.7. Applied 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 C63.4-2003

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



2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 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 Condition			
ltem	EUT Configuration	EMI AC	EMI RE<1G	EMI RE≥1G		
1.	Charging Mode (EUT with adapter)	\boxtimes	\boxtimes	Note 1		
2.	Data application transferred mode (EUT connected with notebook)	\boxtimes	\boxtimes			

The following tables are showing the test modes as the worst cases and recorded in this report.

Abbreviations:

- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

Remark: For signal above 1GHz, the worst case was test item 2.



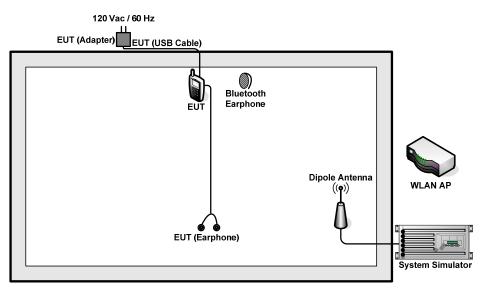
Test Items	EUT Configure Mode	Function Type		
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM1 <fig. 1=""></fig.>		
AC Conducted Emission	1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM1 <fig. 1=""></fig.>		
		Mode 3: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM1 <fig. 2=""></fig.>		
		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM1 <fig. 1=""></fig.>		
Radiated Emissions < 1GHz	- 1/2	Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM1 <fig. 1=""></fig.>		
		Mode 3: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM1 <fig. 2=""></fig.>		
Radiated Emissions \ge 1GHz	2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM1 <fig. 2=""></fig.>		
Remark:				

1. The worst case of AC is mode 1, and the USB Link mode of AC is mode 3, the test data of these modes are reported.

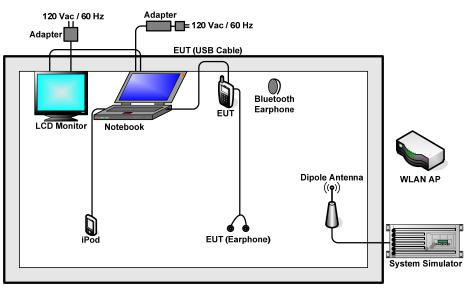
- 2. The worst case of RE < 1G is mode 3; only the test data of this mode is reported.
- 3. Link with Notebook means data application transferred mode between EUT and Notebook.



2.2. Connection Diagram of Test System







<Fig. 2>



2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMW 500	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-link	DIR-815	KA2IR815A1	N/A	Unshielded,1.8m
3.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
4.	Notebook	Lenovo	G480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Notebook	DELL	Vostro2420	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	LCD Monitor	DELL	IN1940MWb	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
7.	iPod nano 8GB	Apple	MC690 ZP/A	FCC DoC	Shielded, 1.2 m	N/A
8.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A



2.4. EUT Operation Test Setup

The EUT was in GSM idle mode during the testing. The EUT was synchronized to the BCCH, and was 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. Execute the program, "Winthrax" under WIN7 installed in notebook for files transfer with EUT via USB cable.
- 2. Execute "Video Player" to play MPEG4 files.
- 3. Turn on camera to capture images.
- 4. Execute "H Pattern" to show H Pattern via VGA Cable on the Monitor.



3. Test Result

3.1. 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

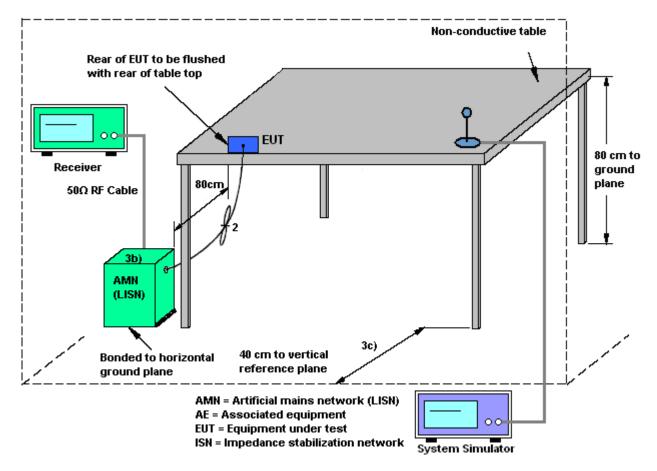
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 1. 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 with Maximum Hold Mode.



3.1.4 Test Setup

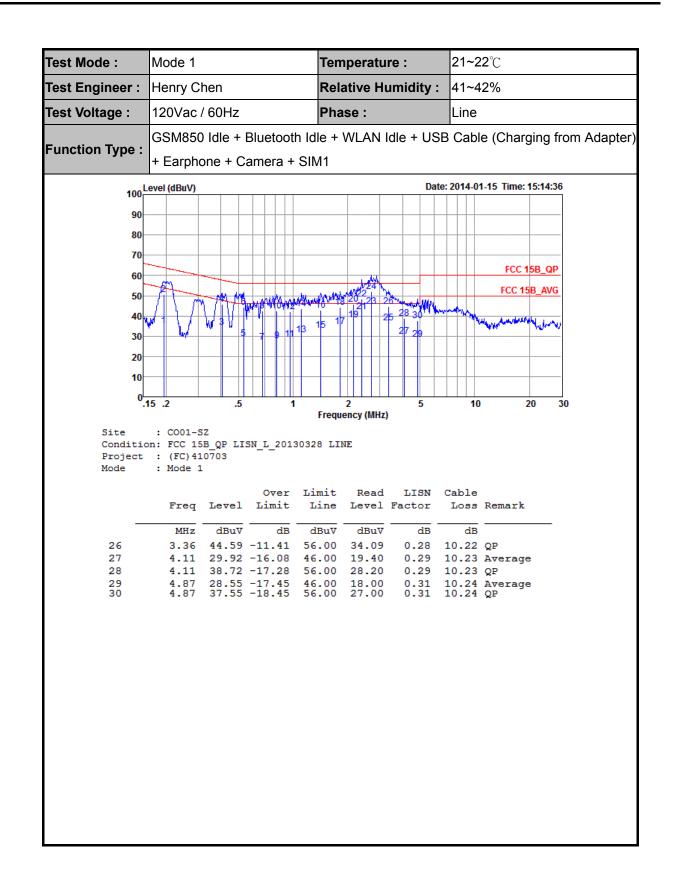




3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1			Ten	nperatu	re :	21~2	21~22℃		
Test Engineer :	Henry Chen			Rel	ative H	umidity	41~4	41~42%		
Test Voltage :	120Vac /	′ 60Hz		Pha	ise :		Line			
	GSM850	Idle +	Bluetootl	h Idle +	WLAN	ldle + US	B Cabl	e (Charging	from Adapter)	
Function Type :	+ Earpho	one + C	amera +	SIM1						
100	evel (dBuV)					Da	te: 2014-0 [.]	1-15 Time: 15:14:	36	
90-									_	
80-										
70									_	
60	A				124			FCC 15B_Q	_	
50-	/ m	-141-M4	MAR WOW	Alterester	20 20 21 21 21 21 21	Constant With		FCC 15B_AV	_	
40	W T	V I		13 15 1	7 19 2	5 28 30 1	A COMPANY	Harrow March In	v	
30	Luy/	- 3	7 9 11			21.29				
20-										
10-										
0-	15.2	.5	1		2 ency (MHz	5	10	20	30	
Site	: CO01-S	Z				,				
0100										
Conditio	on: FCC 15		SN_L_2013	30328 LI	NE					
Conditio	on: FCC 15 : (FC)41 : Mode 1	0703	SN_L_2013	30328 LI	NE					
Conditic Project	: (FC)41	0703		30328 LI Limit	NE Read	LISN	Cable			
Conditic Project	: (FC)41 : Mode 1	0703		Limit	Read	LISN Factor		Remark		
Conditic Project	: (FC)41 : Mode 1	0703	Over	Limit	Read			Remark		
Conditio Project Mode 1	: (FC)41 : Mode 1 Freq MHz 0.19	0703 Level dBuV 35.17	Over Limit 	Limit Line dBuV 53.84	Read Level dBuV 24.80	Factor dB 0.07	Loss dB 10.30	Average		
Conditio Project Mode 1 2	: (FC)41 : Mode 1 Freq MHz 0.19 0.19	0703 Level dBuV 35.17 50.67	Over Limit 	Limit Line dBuV 53.84 63.84	Read Level dBuV 24.80 40.30	Factor dB 0.07 0.07	Loss dB 10.30 10.30	Average QP		
Conditio Project Mode 1	: (FC)41 : Mode 1 Freq MHz 0.19	0703 Level dBuV 35.17 50.67 34.29	Over Limit 	Limit Line dBuV 53.84 63.84 47.73	Read Level dBuV 24.80 40.30	Factor dB 0.07	Loss dB 10.30 10.30	Average QP Average		
Conditio Project Mode 1 2 3 4 5	: (FC)41 : Mode 1 Freq MHz 0.19 0.19 0.41 0.41 0.53	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90	Over Limit 	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61	Factor dB 0.07 0.07 0.12 0.12 0.14	Loss dB 10.30 10.30 10.17 10.17 10.15	Average QP Average QP Average		
Conditio Project Mode 1 2 3 4 5 6	: (FC)41 : Mode 1 Freq 0.19 0.41 0.41 0.53 0.53	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30	Over Limit 	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01	Factor dB 0.07 0.07 0.12 0.12 0.12 0.14 0.14	Loss dB 10.30 10.17 10.17 10.15 10.15	Average QP Average QP Average QP		
Conditio Project Mode 1 2 3 4 5 6 7	: (FC)41 : Mode 1 Freq 0.19 0.41 0.41 0.53 0.53 0.68	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11	Over Limit 	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80	Factor dB 0.07 0.07 0.12 0.12 0.12 0.14 0.14 0.16	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15	Average QP Average QP Average QP Average		
Conditio Project Mode 1 2 3 4 5 6	: (FC)41 : Mode 1 Freq 0.19 0.41 0.41 0.53 0.53 0.68	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41	Over Limit 	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10	Factor dB 0.07 0.07 0.12 0.12 0.12 0.14 0.14 0.16 0.16	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15	Average QP Average QP Average QP Average		
Conditio Project Mode 1 2 3 4 5 6 7 8	: (FC)41 : Mode 1 Freq 0.19 0.41 0.41 0.53 0.53 0.53 0.68 0.68 0.81	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73	Over Limit dB -18.67 -13.17 -13.44 -12.04 -17.10 -11.70 -18.89 -13.59	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00 46.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40	Factor dB 0.07 0.07 0.12 0.12 0.12 0.14 0.14 0.16 0.16 0.18	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15	Average QP Average QP Average QP Average QP Average		
Conditio Project Mode 1 2 3 4 5 6 7 8 9 10 11	: (FC)41 : Mode 1 Freq 0.19 0.41 0.41 0.53 0.53 0.68 0.68 0.68 0.81 0.81 0.96	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73 42.43 28.34	Over Limit dB -18.67 -13.17 -13.44 -12.04 -17.10 -11.70 -18.89 -13.59 -18.27 -13.57 -17.66	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00 46.00 56.00 46.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40 32.10 18.00	Factor dB 0.07 0.07 0.12 0.12 0.14 0.14 0.16 0.16 0.18 0.18 0.19	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15	Average QP Average QP Average QP Average QP Average QP Average		
Conditio Project Mode 1 2 3 4 5 6 7 8 9 10 11 12	: (FC)41 : Mode 1 Freq 0.19 0.41 0.41 0.53 0.53 0.68 0.68 0.68 0.81 0.81 0.96 0.96	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73 42.43 28.34 42.14	Over Limit dB -18.67 -13.17 -13.44 -12.04 -17.10 -11.70 -11.70 -18.89 -13.59 -18.27 -13.57 -17.66 -13.86	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40 32.10 18.00 31.80	Factor dB 0.07 0.07 0.12 0.12 0.14 0.14 0.16 0.16 0.18 0.18 0.19 0.19	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15	Average QP Average QP Average QP Average QP Average QP Average QP		
Conditio Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13	: (FC)41 : Mode 1 Freq 0.19 0.41 0.41 0.53 0.53 0.68 0.68 0.81 0.81 0.96 0.96 1.11	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73 42.43 28.34 42.14 30.76	Over Limit dB -18.67 -13.17 -13.44 -12.04 -17.10 -11.70 -13.59 -13.59 -13.57 -17.66 -13.86 -15.24	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40 32.10 18.00 31.80 20.40	Factor dB 0.07 0.12 0.12 0.14 0.14 0.16 0.16 0.18 0.18 0.19 0.19 0.20	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15	Average QP Average QP Average QP Average QP Average QP Average QP Average		
Conditio Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13 14	: (FC)41 : Mode 1 Freq 0.19 0.19 0.41 0.41 0.53 0.53 0.68 0.68 0.81 0.81 0.96 0.96 1.11 1.11	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73 42.43 28.34 42.14 30.76 43.36	Over Limit 	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40 32.10 18.00 31.80 20.40 33.00	Factor dB 0.07 0.12 0.12 0.12 0.14 0.14 0.16 0.16 0.18 0.18 0.19 0.19 0.20 0.20	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15	Average QP Average QP Average QP Average QP Average QP Average QP Average QP		
Conditio Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	: (FC)41 : Mode 1 Freq 0.19 0.19 0.41 0.41 0.53 0.53 0.68 0.68 0.81 0.96 0.96 1.11 1.11 1.42	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73 42.43 28.34 42.14 30.76 43.36 32.78	Over Limit 	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40 32.10 18.00 31.80 20.40 33.00 22.39	Factor dB 0.07 0.12 0.12 0.12 0.14 0.14 0.16 0.16 0.18 0.18 0.19 0.20 0.20 0.22	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average		
Conditio Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13 14	: (FC)41 : Mode 1 Freq 0.19 0.19 0.41 0.41 0.41 0.53 0.53 0.68 0.68 0.81 0.96 0.96 1.11 1.11 1.42 1.42	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73 42.43 28.34 42.14 30.76 43.36 32.78 42.68	Over Limit 	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40 32.10 17.40 32.10 17.40 32.00 31.80 20.40 33.00 22.39 32.29	Factor dB 0.07 0.12 0.12 0.12 0.14 0.14 0.16 0.16 0.18 0.18 0.19 0.19 0.20 0.22 0.22	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.17	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average		
Conditio Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	: (FC)41 : Mode 1 Freq 0.19 0.41 0.41 0.41 0.53 0.53 0.68 0.68 0.81 0.96 0.96 1.11 1.11 1.42 1.42 1.82	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73 42.43 28.34 42.14 30.76 43.36 32.78 42.68 34.81	Over Limit 	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40 32.10 17.40 32.10 17.40 32.10 17.40 32.00 20.40 33.00 20.40 33.00 22.39 32.29 24.40	Factor dB 0.07 0.07 0.12 0.12 0.12 0.14 0.16 0.16 0.18 0.19 0.19 0.20 0.20 0.22 0.22 0.23	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.17	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average		
Condition Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	: (FC)41 : Mode 1 Freq 0.19 0.41 0.41 0.41 0.53 0.53 0.68 0.68 0.68 0.81 0.96 1.11 1.42 1.42 1.42 1.82 1.82 2.16	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73 42.43 28.34 42.14 30.76 43.36 32.78 42.68 34.81 44.11 38.03	Over Limit dB -18.67 -13.17 -13.44 -12.04 -17.10 -11.70 -18.89 -13.59 -13.59 -18.27 -13.57 -17.66 -13.86 -15.24 -12.64 -13.22 -13.32 -11.19 -11.89 -7.97	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40 32.10 17.40 32.10 18.00 31.80 20.40 33.00 22.39 32.29 24.40 33.70 27.60	Factor dB 0.07 0.07 0.12 0.12 0.14 0.14 0.16 0.16 0.18 0.19 0.20 0.20 0.22 0.22 0.23 0.23 0.24	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.16 10.16 10.17 10.17 10.17	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average		
Condition Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	: (FC)41 : Mode 1 Freq 0.19 0.19 0.41 0.41 0.53 0.53 0.68 0.68 0.81 0.96 1.11 1.11 1.42 1.42 1.42 1.82 1.82 2.16 2.16	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73 42.43 28.34 42.14 30.76 43.36 32.78 42.68 34.81 44.11 38.03 45.63	Over Limit dB -18.67 -13.17 -13.44 -12.04 -17.10 -11.70 -18.89 -13.59 -13.59 -18.27 -13.57 -17.66 -13.86 -15.24 -12.64 -13.22 -13.32 -11.19 -11.89 -7.97 -10.37	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40 32.10 17.40 32.10 18.00 31.80 20.40 33.00 22.39 32.29 24.40 33.70 27.60 35.20	Factor dB 0.07 0.07 0.12 0.12 0.14 0.14 0.16 0.16 0.18 0.19 0.20 0.20 0.22 0.22 0.23 0.23 0.24 0.24	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.16 10.16 10.16 10.17 10.17 10.17 10.18 10.18 10.19 10.19	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP		
Condition Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	: (FC)41 : Mode 1 Freq 0.19 0.19 0.41 0.41 0.41 0.53 0.53 0.68 0.68 0.68 0.81 0.96 1.11 1.11 1.42 1.42 1.42 1.42 1.82 2.16 2.16 2.40	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73 42.43 28.34 42.14 30.76 43.36 32.78 42.68 34.81 44.11 38.03 45.63 42.24	Over Limit dB -18.67 -13.17 -13.44 -12.04 -17.10 -11.70 -18.89 -13.59 -18.27 -13.57 -17.66 -13.86 -15.24 -12.64 -13.22 -13.32 -11.19 -11.89 -7.97 -10.37 -3.76	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40 32.10 17.40 32.10 18.00 31.80 20.40 33.00 20.40 33.00 20.39 32.29 24.40 33.70 27.60 35.20 31.79	Factor dB 0.07 0.07 0.12 0.12 0.14 0.14 0.16 0.16 0.18 0.19 0.20 0.20 0.22 0.22 0.22 0.23 0.23 0.24 0.24 0.25	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.16 10.16 10.17 10.17 10.18 10.18 10.19 10.20	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP		
Condition Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	: (FC) 41 : Mode 1 Freq MHz 0.19 0.41 0.41 0.53 0.53 0.68 0.68 0.68 0.81 0.96 0.96 1.11 1.11 1.42 1.42 1.82 1.82 2.16 2.40 2.40	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73 42.43 28.34 42.14 30.76 43.36 32.78 42.68 34.81 44.11 38.03 45.63 42.24 48.44	Over Limit dB -18.67 -13.17 -13.44 -12.04 -17.10 -11.70 -18.89 -13.59 -13.59 -13.57 -17.66 -13.86 -15.24 -12.64 -13.22 -13.32 -11.19 -11.89 -7.97 -10.37 -3.76 -7.56	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40 32.10 17.40 32.10 17.40 32.10 17.40 32.20 33.00 22.39 32.29 24.40 33.70 27.60 35.20 31.79 37.99	Factor dB 0.07 0.07 0.12 0.12 0.14 0.14 0.16 0.16 0.18 0.19 0.20 0.20 0.22 0.22 0.23 0.23 0.23 0.24 0.25 0.25	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.16 10.16 10.17 10.17 10.18 10.18 10.19 10.20	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP		
Condition Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 *	: (FC) 41 : Mode 1 Freq MHz 0.19 0.19 0.41 0.41 0.41 0.53 0.68 0.68 0.68 0.68 0.68 0.68 0.68 0.96 1.11 1.11 1.42 1.42 1.82 1.82 2.16 2.40 2.40 2.69	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73 42.43 28.34 42.14 30.76 43.36 32.78 42.68 34.81 44.11 38.03 45.63 42.24 48.44 44.66	Over Limit dB -18.67 -13.17 -13.44 -12.04 -17.10 -11.70 -18.89 -13.59 -13.59 -13.57 -17.66 -13.86 -15.24 -13.22 -13.32 -11.19 -11.89 -7.97 -10.37 -3.76 -7.56 -1.34	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 56.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40 32.10 17.40 32.10 17.40 32.10 17.40 32.20 20.40 33.00 20.40 33.00 20.40 33.00 21.29 24.40 33.70 27.60 35.20 31.79 37.99 34.19	Factor dB 0.07 0.07 0.12 0.12 0.14 0.14 0.16 0.16 0.18 0.19 0.20 0.20 0.22 0.22 0.23 0.23 0.23 0.24 0.25 0.26	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.16 10.16 10.16 10.17 10.17 10.18 10.18 10.19 10.20 10.20 10.21	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP		
Condition Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	: (FC)41 : Mode 1 Freq 0.19 0.19 0.41 0.41 0.53 0.53 0.68 0.81 0.81 0.96 0.96 1.11 1.11 1.42 1.42 1.82 1.82 2.16 2.16 2.40 2.40 2.69 2.69	0703 Level dBuV 35.17 50.67 34.29 45.69 28.90 44.30 27.11 42.41 27.73 42.43 28.34 42.14 30.76 43.36 32.78 42.68 34.81 44.11 38.03 45.63 42.24 48.44 44.66 52.16	Over Limit dB -18.67 -13.17 -13.44 -12.04 -17.10 -11.70 -18.89 -13.59 -13.59 -13.57 -17.66 -13.86 -15.24 -12.64 -13.22 -13.32 -11.19 -11.89 -7.97 -10.37 -3.76 -7.56	Limit Line dBuV 53.84 63.84 47.73 57.73 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 24.80 40.30 24.00 35.40 18.61 34.01 16.80 32.10 17.40 32.10 17.40 32.10 18.00 31.80 20.40 33.00 22.39 32.29 24.40 33.70 27.60 33.70 35.20 31.79 37.99 34.19 41.69	Factor dB 0.07 0.12 0.12 0.14 0.14 0.16 0.16 0.18 0.19 0.20 0.22 0.22 0.22 0.23 0.23 0.24 0.24 0.25 0.26 0.26	Loss dB 10.30 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.15 10.16 10.16 10.16 10.17 10.17 10.17 10.18 10.19 10.20 10.20 10.21	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP		

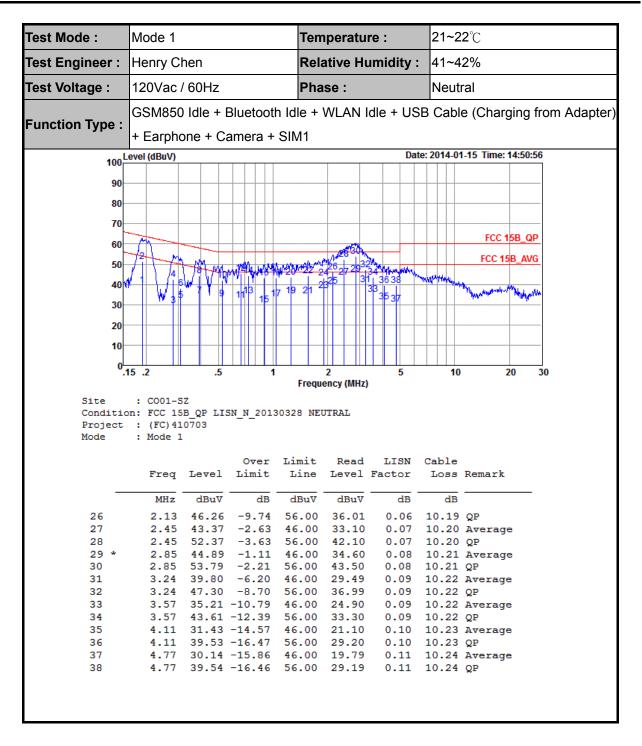






Fest Mode :	Mode 1			Ten	Temperature :			21~22 ℃			
Fest Engineer :	Henry Chen			Rel	ative Hu	umidity	: 41~42%				
Fest Voltage :	120Vac / 60Hz			Pha	ase :		Neut	ral			
unotion Turns	GSM850) Idle +	Bluetoot	h Idle +	WLAN I	ldle + US	SB Cabl	le (Chargin	ig from Adapt		
Function Type :	+ Earpho	one + C	amera +	SIM1							
100 ^L	evel (dBuV)					Da	te: 2014-0	1-15 Time: 14:	50:56		
90											
80-											
70								FCC 15B	OP		
60	A				2830						
50	11 1	1-181-MA	11 March	120 m22	26 ₂₇ 29 ³²	214 34 14 14 14 14 14		FCC 15B_	AVG		
40	# 1 \ <i>f</i> ie	W I V I	13	7 19 21	2825 3	1 3638 33 L I	must attack	WWW MARCHANNE	1		
30-	W 3	<u>'</u>	11.0 15			3537		MAN			
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0 ^L	15.2	.5	1		2	5	10) 20	30		
	: CO01-S on: FCC 15 : (FC)41 : Mode 1	B_QP LI 0703	SN_N_2013	30328 NE	UTRAL						
Conditio Project	on: FCC 15 : (FC)41 : Mode 1	B_QP LI: .0703	Over	Limit	Read		Cable				
Conditio Project	on: FCC 15 : (FC)41 : Mode 1 Freq	B_QP LI: .0703 Level	Over Limit	Limit Line	Read Level	Factor	Loss	Remark			
Conditio Project	on: FCC 15 : (FC)41 : Mode 1	B_QP LI: .0703	Over	Limit	Read				_		
Conditio Project Mode —	on: FCC 15 : (FC)41 : Mode 1 Freq MHz 0.19	Level dBuV 39.45	Over Limit 	Limit Line dBuV 54.02	Read Level dBuV 29.10	Factor dB 0.04	Loss dB 10.31	Average	_		
Conditi Project Mode	on: FCC 15 : (FC)41 : Mode 1 Freq MHz 0.19 0.19	DB_QP LI: 0703 Level dBuV 39.45 51.15	Over Limit 	Limit Line dBuV 54.02 64.02	Read Level dBuV 29.10 40.80	Factor dB 0.04 0.04	Loss dB 10.31 10.31	Average QP			
Conditio Project Mode 	on: FCC 15 : (FC)41 : Mode 1 Freq MHz 0.19 0.19 0.28	B_QP LI: 0703 Level dBuV 39.45 51.15 29.65	Over Limit 	Limit Line dBuV 54.02 64.02 50.76	Read Level dBuV 29.10 40.80 19.40	Factor dB 0.04 0.04 0.04	Loss dB 10.31 10.31	Average QP Average			
Conditio Project Mode 1 2 3 4 5	Dn: FCC 15 : (FC)41 : Mode 1 Freq MHz 0.19 0.19 0.28 0.28 0.31	Level dBuV 39.45 51.15 29.65 42.25 32.24	Over Limit 	Limit Line dBuV 54.02 64.02 50.76 60.76 49.97	Read Level dBuV 29.10 40.80 19.40 32.00 22.00	Factor dB 0.04 0.04 0.04 0.04 0.04 0.04	Loss dB 10.31 10.31 10.21 10.21 10.20	Average QP Average QP Average	_		
Conditio Project Mode 1 2 3 4	Dn: FCC 15 (FC) 41 Mode 1 Freq MHz 0.19 0.28 0.28 0.31 0.31	Level dBuV 39.45 51.15 29.65 42.25 32.24 37.84	Over Limit 	Limit Line dBuV 54.02 64.02 50.76 60.76 49.97 59.97	Read Level dBuV 29.10 40.80 19.40 32.00 22.00 27.60	Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04	Loss dB 10.31 10.21 10.21 10.20 10.20	Average QP Average QP Average QP	_		
Conditio Project Mode 1 2 3 4 5 6	Dn: FCC 15 (FC) 41 Mode 1 Freq MHz 0.19 0.28 0.28 0.31 0.31 0.39	Level dBuV 39.45 51.15 29.65 42.25 32.24 37.84 34.21	Over Limit 	Limit Line dBuV 54.02 64.02 50.76 60.76 49.97 59.97 47.99	Read Level dBuV 29.10 40.80 19.40 32.00 22.00 27.60 24.00	Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	Loss dB 10.31 10.21 10.21 10.20 10.20	Average QP Average QP Average QP Average			
Conditio Project Mode 1 2 3 4 5 6 7 8 9	Dn: FCC 15 (FC) 41 Mode 1 Freq 0.19 0.28 0.28 0.31 0.31 0.39 0.39 0.52	Level dBuV 39.45 51.15 29.65 42.25 32.24 37.84 34.21 44.41 32.69	Over Limit 	Limit Line dBuV 54.02 64.02 50.76 60.76 49.97 59.97 47.99 57.99 46.00	Read Level 29.10 40.80 19.40 32.00 22.00 27.60 24.00 34.20 22.50	Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	Loss dB 10.31 10.21 10.21 10.20 10.20 10.17 10.17	Average QP Average QP Average QP Average QP Average			
Conditio Project Mode 1 2 3 4 5 6 7 8 9 10	Dn: FCC 15 (FC) 41 Mode 1 Freq 0.19 0.19 0.28 0.28 0.31 0.31 0.31 0.39 0.39 0.52 0.52	Level dBuV 39.45 51.15 29.65 42.25 32.24 37.84 34.21 44.41 32.69 42.19	Over Limit dB -14.57 -12.87 -21.11 -18.51 -17.73 -22.13 -13.78 -13.58 -13.31 -13.81	Limit Line dBuV 54.02 64.02 50.76 60.76 49.97 59.97 47.99 57.99 46.00 56.00	Read Level dBuV 29.10 40.80 19.40 32.00 22.00 27.60 24.00 34.20 22.50 32.00	Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	Loss dB 10.31 10.21 10.21 10.20 10.20 10.17 10.17 10.15 10.15	Average QP Average QP Average QP Average QP Average QP			
Conditio Project Mode 1 2 3 4 5 6 7 8 9	Dn: FCC 15 (FC) 41 Mode 1 Freq 0.19 0.28 0.28 0.31 0.31 0.31 0.39 0.39 0.52 0.52 0.66	Level dBuV 39.45 51.15 29.65 42.25 32.24 37.84 34.21 44.41 32.69 42.19 32.19	Over Limit 	Limit Line dBuV 54.02 64.02 50.76 60.76 49.97 59.97 47.99 57.99 46.00 56.00 46.00	Read Level dBuV 29.10 40.80 19.40 32.00 22.00 27.60 24.00 34.20 22.50 32.00 22.00	Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	Loss dB 10.31 10.21 10.21 10.20 10.20 10.17 10.17 10.15 10.15	Average QP Average QP Average QP Average QP Average QP Average			
Conditio Project Mode — 1 2 3 4 5 6 7 8 9 10 11 12 13	Dn: FCC 15 (FC) 41 Mode 1 Freq 0.19 0.19 0.28 0.31 0.31 0.31 0.39 0.39 0.52 0.52 0.66 0.66 0.73	Level dBuV 39.45 51.15 29.65 42.25 32.24 37.84 34.21 44.41 32.69 42.19 32.19 45.29 34.39	Over Limit dB -14.57 -12.87 -21.11 -18.51 -17.73 -22.13 -13.78 -13.58 -13.31 -13.81 -13.81 -13.81 -10.71 -11.61	Limit Line dBuV 54.02 64.02 50.76 60.76 49.97 59.97 47.99 57.99 46.00 56.00 46.00 56.00	Read Level dBuV 29.10 40.80 19.40 32.00 27.60 24.00 34.20 22.50 32.00 22.00 35.10 24.20	Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	Loss dB 10.31 10.21 10.20 10.20 10.17 10.15 10.15 10.15 10.15 10.15	Average QP Average QP Average QP Average QP Average QP Average QP Average			
Conditio Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Dn: FCC 15 (FC) 41 Mode 1 Freq 0.19 0.19 0.28 0.28 0.31 0.31 0.39 0.39 0.52 0.52 0.66 0.66 0.66 0.73 0.73	Level dBuV 39.45 51.15 29.65 42.25 32.24 37.84 34.21 44.41 32.69 42.19 32.19 45.29 34.39 44.29	Over Limit 	Limit Line dBuV 54.02 64.02 50.76 60.76 49.97 59.97 47.99 57.99 46.00 56.00 46.00 56.00 46.00 56.00	Read Level dBuV 29.10 40.80 19.40 32.00 27.60 24.00 34.20 34.20 35.10 24.20 35.10	Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	Loss dB 10.31 10.21 10.20 10.20 10.17 10.15 10.15 10.15 10.15 10.15 10.15	Average QP Average QP Average QP Average QP Average QP Average QP Average QP			
Conditio Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Dn: FCC 15 (FC) 41 Mode 1 Freq 0.19 0.28 0.28 0.31 0.31 0.39 0.52 0.52 0.66 0.66 0.73 0.73 0.89	Level dBuV 39.45 51.15 29.65 42.25 32.24 37.84 34.21 44.41 32.69 32.19 45.29 32.19 45.29 34.39 44.29 29.97	Over Limit 	Limit Line dBuV 54.02 64.02 50.76 60.76 49.97 59.97 47.99 57.99 46.00 56.00 46.00 56.00 46.00 56.00 46.00	Read Level dBuV 29.10 40.80 19.40 32.00 27.60 24.00 34.20 32.00 22.50 32.00 22.00 35.10 24.20 34.10 19.78	Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	Loss dB 10.31 10.21 10.20 10.20 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15	Average QP Average QP Average QP Average QP Average QP Average QP Average QP			
Conditio Project Mode 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Dn: FCC 15 (FC) 41 Mode 1 Freq 0.19 0.19 0.28 0.28 0.31 0.31 0.39 0.39 0.52 0.52 0.66 0.66 0.73 0.73 0.89 0.89	Level dBuV 39.45 51.15 29.65 42.25 32.24 37.84 34.21 44.41 32.69 42.19 32.19 32.19 34.39 45.29 34.39 44.29 32.9 34.39 45.29 34.39 32.69	Over Limit dB -14.57 -12.87 -21.11 -18.51 -17.73 -22.13 -13.78 -13.58 -13.31 -13.81 -10.71 -11.61 -11.71 -16.03 -12.71 -13.31	Limit Line dBuV 54.02 64.02 50.76 60.76 49.97 59.97 47.99 57.99 46.00 56.00 46.00 56.00 46.00 56.00 46.00 56.00 46.00	Read Level dBuV 29.10 40.80 19.40 32.00 27.60 24.00 34.20 22.50 32.00 22.00 35.10 24.20 34.10 19.78 33.10 22.50	Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	Loss dB 10.31 10.21 10.20 10.20 10.17 10.17 10.15 10.15 10.15 10.15 10.15 10.15 10.15	Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average QP Average			
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Test Engineer: Henry Chen Relative Humidity: 41~42% Test Voltage: 120Vac / 60Hz Phase: Line Function Type: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link wit Notebook) + Earphone + SIM1 Image: transmission of the transmission of the transmission of the transmission of transm	Test Mode :	Mode 3	Mode 3			nperatu	re :	21~2	22° ℃	
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Function Type: Notebook) + Earphone + SIM1 Notebook) + Earphone + SIM1	Test Voltage :	120Vac/	60Hz		Pha	ise :		Line		
Notebook) + Earphone + SIM1 Date: 2014-01-16 Time: 15:18:05 Optic: 2016-02 Frequency (MHz) Site::::::::::::::::::::::::::::::::::::		GSM850	Idle +	+ Blueto	oth Idle	e + WL	AN Idle	+ US	B Cable (D	ata Link wit
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Frequency (MHz) Site : CO01-SZ Condition: FCC 15B_QP LISN_L_20130328 LINE Project : (FC) 410703 Mode : Mode 3 $\frac{Freq}{MHz} = \frac{Vevel}{Level} = \frac{Limit}{Limit} = \frac{Level}{Level} = \frac{Fred}{Factor} = \frac{Level}{Loss} = \frac{Level}{Loss} = \frac{Level}{Ractor} = L$	10									-
Site : C001-SZ Condition: FCC 155_QP LISN_L_20130328 LINE Project : (FC) 410703 Mode : Mode 3 $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0L	15.2	.5	1		2	5	10) 20	30
$\begin{array}{c} \mbox{Condition: FCC 15B_QP LISN_L_20130328 LINE} \\ \mbox{Project : (FC) 410703} \\ \mbox{Mode : Mode 3} \end{array} \\ \mbox{Mode : Mode 3} \end{array} \\ \mbox{Mode : Mode 3} \\ \mbox{Med : Mode 3} \end{array} \\ \mbox{Med : Mode 3} \\ \mbox{MHz} \mbox{MHz} \mbox{Level Limit Line Level Factor Loss Remark} \\ \mbox{MHz} \mbox{MHz} \mbox{dBuV} \mbox{dB} \mbox{dBuV} \mbox{dB} \mbox{dB} \mbox{dB} \mbox{dB} \\ \mbox{MHz} \mbox{Loss Remark} \\ \mbox{MHz} \mbox{dBuV} \mbox{dB} \mbox{dB} \mbox{dB} \mbox{dB} \mbox{dB} \mbox{dB} \\ \mbox{1 0.15 } 35.42 \mbox{-}20.58 \mbox{56.00 } 25.00 \mbox{0.06 } 10.36 \mbox{Average} \\ \mbox{2 0.15 } 53.02 \mbox{-}12.98 \mbox{66.00 } 42.60 \mbox{0.06 } 10.36 \mbox{QP} \\ \mbox{3 0.16 } 41.01 \mbox{-}14.42 \mbox{55.43 } 30.61 \mbox{0.06 } 10.34 \mbox{Average} \\ \mbox{4 * 0.16 } 55.11 \mbox{-}10.32 \mbox{65.43 } 44.71 \mbox{0.06 } 10.34 \mbox{QP} \\ \mbox{5 0.18 } 36.88 \mbox{-}17.45 \mbox{54.33 } 26.50 \mbox{0.07 } 10.31 \mbox{QP} \\ \mbox{7 0.20 } 38.96 \mbox{-}14.71 \mbox{53.67 } 28.59 \mbox{0.07 } 10.30 \mbox{QP} \\ \mbox{9 0.26 } 29.33 \mbox{-}22.23 \mbox{51.56 } 19.00 \mbox{0.09 } 10.24 \mbox{Average} \\ \mbox{8 0.20 } 52.36 \mbox{-}11.31 \mbox{63.560 } 0.09 \mbox{10.24 } \mbox{QP} \\ \mbox{9 0.26 } 29.33 \mbox{-}22.23 \mbox{51.56 } 19.00 \mbox{0.09 } 10.24 \mbox{QP} \\ \mbox{11 0.32 } 28.40 \mbox{-}21.31 \mbox{49.71 } 18.10 \mbox{0.11 10.19 \mbox{Average} \\ \mbox{10 0.26 } 45.93 \mbox{-}15.63 \mbox{61.56 } 35.60 \mbox{0.09 } 10.24 \mbox{QP} \\ \mbox{11 0.19 \mbox{Average} \\ \mbox{11 0.19 \mbox{Average} \\ \mbox{12 0.52 \mbox{Average} \\ \mbox{13 0.51 \mbox{Average} \\ \mbox{13 0.51 \mbox{Average} \\ \mbox{13 0.52 \mbox{Average} \\ \mbox{13 0.52 \mbox{Average} \\ \mbox{13 0.24 \mbox{Average} \\ \mbox{13 0.26 \mbox{Average} \\ \mbox{14 0.26 \mbox{Average} \\ \mbox{11 0.19 \mbox{Average} \\ \mbox{14 0.24 \mbox{Average}$					Frequ	ency (MHz)			
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4 * 0.16 55.11 -10.32 65.43 44.71 0.06 10.34 QF 5 0.18 36.88 -17.45 54.33 26.50 0.07 10.31 Average 6 0.18 53.48 -10.85 64.33 43.10 0.07 10.31 QF 7 0.20 38.96 -14.71 53.67 28.59 0.07 10.30 Average 8 0.20 52.36 -11.31 63.67 41.99 0.07 10.30 QF 9 0.26 29.33 -22.23 51.56 19.00 0.09 10.24 Average 10 0.26 45.93 -15.63 61.56 35.60 0.09 10.24 QP 11 0.32 28.40 -21.31 49.71 18.10 0.11 10.19 Average										
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7 0.20 38.96 -14.71 53.67 28.59 0.07 10.30 Average 8 0.20 52.36 -11.31 63.67 41.99 0.07 10.30 QP 9 0.26 29.33 -22.23 51.56 19.00 0.09 10.24 Average 10 0.26 45.93 -15.63 61.56 35.60 0.09 10.24 QP 11 0.32 28.40 -21.31 49.71 18.10 0.11 10.19 Average	5	0.18				26.50	0.07		-	
8 0.20 52.36 -11.31 63.67 41.99 0.07 10.30 QP 9 0.26 29.33 -22.23 51.56 19.00 0.09 10.24 Average 10 0.26 45.93 -15.63 61.56 35.60 0.09 10.24 QP 11 0.32 28.40 -21.31 49.71 18.10 0.11 10.19 Average	_									
9 0.26 29.33 -22.23 51.56 19.00 0.09 10.24 Average 10 0.26 45.93 -15.63 61.56 35.60 0.09 10.24 QP 11 0.32 28.40 -21.31 49.71 18.10 0.11 10.19 Average									-	
11 0.32 28.40 -21.31 49.71 18.10 0.11 10.19 Average		0.26	29.33	-22.23	51.56	19.00	0.09	10.24	Average	



Test Mode :	Mode 3			Те	mperatu	ire :	21~2	21~22 ℃		
Test Engineer :	Henry Chen			R	lative H	umidity	41~42%			
Test Voltage :	120Vac / 60Hz			PI	ase :	ase : Neutral				
	GSM850	Idle -	- Bluet	ooth Id	le + WL	AN Idle	+ US	B Cable	(Data	a Link w
Function Type :	Noteboo	k) + Ea	rphone	+ SIM1						
100	evel (dBuV)			1		Da	te: 2014-0	1-16 Time: 1	5:36:34	
90										
80										
70-										
60								FCC 1	5B_QP	
2	the							FCC 15	B AVG	
50	Wins									
40	3 [#] 111	Monymy				1			膨州	
30	7"¥		Multure	and the second	PARTING WORK	how have a	Har wanter	Water and William	1000 1	
20										
20- 10-										
10										
10	5 .2	.5		1 Fre	2 quency (MHz	5	10) 2	0 30)
10 0. Site Conditio	5 .2 : CO01-S n: FCC 15 : (FC) 41 : Mode 3	Z B_QP LI 0703		Fre	quency (MHz	-	10) 2	0 30)
10 0. Site Conditio Project	: CO01-S n: FCC 15 : (FC)41 : Mode 3	Z B_QP LI 0703	SN_N_201 Over	Fre 130328 1 Limi	uency (MHz EUTRAL Read) LISN	Cable		0 30	I
10 0. Site Conditio Project	: CO01-S n: FCC 15 : (FC)41 : Mode 3	Z B_QP LI 0703	SN_N_201	Fre 130328 1 Limi	quency (MHz EUTRAL) LISN	Cable) 2 Remark	0 30	1
10 0. Site Conditio Project	: CO01-S n: FCC 15 : (FC)41 : Mode 3	Z B_QP LI 0703	SN_N_201 Over	Fre 130328 1 Limi Lini	EUTRAL EUTRAL Read Level) LISN Factor	Cable		0 30	1
10 0. Site Conditio Project	: C001-S n: FCC 15 : (FC) 41 : Mode 3 Freq MHz	Z B_QP LI 0703 Level dBuV	SN_N_201 Over Limit	Fre 130328 1 Limi Line dBu	EUTRAL EUTRAL Read Level) Factor dB	Cable Loss 			1
10 0.1 Site Conditio Project Mode	: C001-S n: FCC 15 : (FC) 41 : Mode 3 Freq MHz 0.16 0.16	Z B_QP LI 0703 Level dBuV 40.79 52.39	SN_N_201 Over Limit 	Fre 130328 1 Limi- Lind dBu' 55.5 65.5	EUTRAL EUTRAL EUTRAL E Read E Level G 30.40 5 30.40	LISN Factor dB 0.04 0.04	Cable Loss dB 10.35 10.35	Remark Average QP		1
10 0.1 Site Conditio Project Mode	: C001-S n: FCC 15 : (FC) 41 : Mode 3 Freq MHz 0.16 0.16 0.18	Z B_QP LI 0703 Level dBuV 40.79 52.39 35.35	SN_N_201 Over Limit -14.77 -13.17 -19.02	Fre 130328 1 Limi Lin dBu 55.5 65.5 54.3	EUTRAL EUTRAL EUTRAL E Read E Level G 30.40 5 30.40 5 42.00 7 25.00	LISN Factor dB 0.04 0.04 0.04	Cable Loss dB 10.35 10.35 10.31	Remark Average QP Average		
10 0.1 Site Conditio Project Mode	: C001-S n: FCC 15 : (FC)41 : Mode 3 Freq MHz 0.16 0.16 0.18 0.18	Z B_QP LI 0703 Level dBuV 40.79 52.39 35.35 49.55	Over Limit -14.77 -13.17 -19.02 -14.82	Fre 130328 1 Limi Limi dBu 55.5 65.5 54.3 64.3	EUTRAL EUTRAL EUTRAL EUTRAL E Read Level G 30.40 5 30.40 5 42.00 7 25.00 7 39.20	LISN Factor dB 0.04 0.04 0.04 0.04 0.04	Cable Loss dB 10.35 10.35 10.31 10.31	Remark Average QP Average QP		
10 0.1 Site Conditio Project Mode	: CO01-S n: FCC 15 : (FC)41 : Mode 3 Freq MHz 0.16 0.16 0.18 0.18 0.19	Z B_QP LI 0703 Level dBuV 40.79 52.39 35.35 49.55 37.54	Over Limit -14.77 -13.17 -19.02 -14.82 -16.35	Fre 130328 1 Limi Linu 55.5 65.5 54.3 64.3 53.8	EUTRAL EUTRAL EUTRAL EUTRAL E Level G 30.40 G 42.00 Z 25.00 Z 39.20 E 27.20	LISN Factor dB 0.04 0.04 0.04 0.04 0.04 0.04	Cable Loss dB 10.35 10.35 10.31 10.31 10.31	Remark Average QP Average QP Average		
10 0.1 Site Condition Project Mode 1 2 * 3 4 5 6	: CO01-S n: FCC 15 : (FC)41 : Mode 3 Freq MHz 0.16 0.16 0.16 0.18 0.18 0.19 0.19	Z B_QP LI 0703 Level dBuV 40.79 52.39 35.35 49.55 37.54 50.44	Over Limit -14.77 -13.17 -19.02 -14.82 -16.35 -13.45	Fre 130328 1 Limi Limi 55.5 65.5 54.3 64.3 53.8 63.8	EUTRAL EUTRAL EUTRAL EUTRAL E Read E Level G 30.40 5 30.40 5 42.00 7 25.00 7 39.20 9 27.20 9 40.10	LISN Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04	Cable Loss dB 10.35 10.35 10.31 10.31 10.30 10.30	Remark Average QP Average QP Average QP		
10 0.1 Site Condition Project Mode 1 2 * 3 4 5 6 7	: CO01-S n: FCC 15 : (FC)41 : Mode 3 Freq MHz 0.16 0.16 0.18 0.18 0.19 0.19 0.26	Z B_QP LI 0703 Level dBuV 40.79 52.39 35.35 49.55 37.54 50.44 30.07	Over Limit 	Fre 130328 1 Limi Lini dBu 55.5 54.3 64.3 53.8 64.3 53.8 63.8 51.3	EUTRAL EUTRAL EUTRAL EUTRAL EUTRAL EUTRAL E Read E Level G 30.40 G 42.00 Z 25.00 Z 39.20 E 27.20 E 40.10 E 19.80	LISN Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	Cable Loss dB 10.35 10.35 10.31 10.31 10.30 10.30 10.23	Remark Average QP Average QP Average QP Average		
10 0.1 Site Condition Project Mode 1 2 * 3 4 5 6	: C001-S n: FCC 15 : (FC)41 : Mode 3 Freq MHz 0.16 0.18 0.18 0.19 0.19 0.26 0.26	Z B_QP LI 0703 Level dBuV 40.79 52.39 35.35 49.55 37.54 50.44 30.07 40.67	Over Limit dB -14.77 -13.17 -19.02 -14.82 -16.35 -13.45 -21.27 -20.67	Fre	EUTRAL EUTRAL EUTRAL EUTRAL Eutral Eu	LISN Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	Cable Loss dB 10.35 10.35 10.31 10.31 10.30 10.30 10.23 10.23	Remark Average QP Average QP Average QP Average QP		
10 0.1 Site Conditio: Project Mode 1 2 * 3 4 5 6 7 8	: CO01-S n: FCC 15 : (FC)41 : Mode 3 Freq MHz 0.16 0.16 0.18 0.18 0.19 0.19 0.26	Z B_QP LI 0703 Level dBuV 40.79 52.39 35.35 49.55 37.54 50.44 30.07 40.67 26.32	Over Limit 	Fre	EUTRAL EU	LISN Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	Cable Loss dB 10.35 10.35 10.31 10.31 10.30 10.30 10.23 10.23 10.23	Remark Average QP Average QP Average QP Average QP Average		
10 0.1 Site Conditio: Project Mode 1 2 * 3 4 5 6 7 8 9	: C001-S n: FCC 15 : (FC)41 : Mode 3 Freq MHz 0.16 0.16 0.18 0.18 0.19 0.19 0.26 0.26 0.37	Z B_QP LI 0703 Level dBuV 40.79 52.39 35.35 49.55 37.54 50.44 30.07 40.67 26.32 33.72	Over Limit dB -14.77 -13.17 -19.02 -14.82 -16.35 -13.45 -21.27 -20.67 -22.29	Fre	EUTRAL EUTRAL EUTRAL EUTRAL C Read Level C dBuV 5 30.40 5 42.00 7 25.00 7 25.00 7 25.00 7 25.00 7 25.00 9 27.20 9 40.10 4 19.80 4 30.40 1 16.10 2 23.50	LISN Factor dB 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	Cable Loss dB 10.35 10.35 10.31 10.31 10.30 10.30 10.23 10.23 10.18 10.18	Remark Average QP Average QP Average QP Average QP Average		



3.2. Test of Radiated Emission Measurement

3.2.1. 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

3.2.2. Measuring Instruments

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

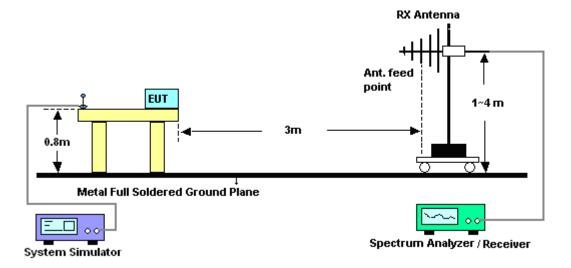
3.2.3. Test Procedures

- 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 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.
- 5. 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.
- 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

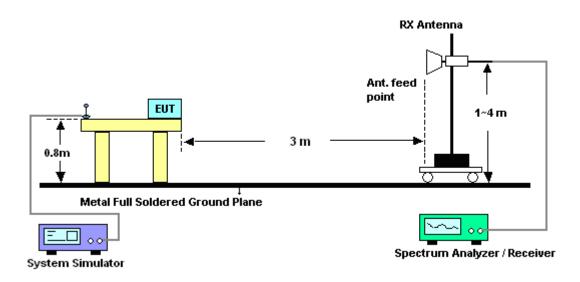


3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



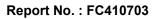
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 3		Temperatu	re :	24~25°C			
Test Engineer :	Robin Luo		Relative Hu	umidity :	48~49%			
Test Distance :	3m		Polarizatio	n :	Horizonta	Horizontal		
Function Type :	GSM850 Idle Notebook) + E	+ Bluetooth Earphone + SII		AN Idle -	+ USB C	able (Data	Link with	
117 Leve	l (dBuV/m)					Date: 2014	-01-22	
110								
90								
70						FCC CLA	SS-B 6dB	
50						FCC CLASS-B	(AVG) 6dB-	
50 F								
30								
10								
030	1000. 30	00. 5000	. 7000 Frequency (MH		000.	11000.	13000	
Site Condition Project Mode	: (FC)410703 : Mode 3	-B 3m LF_ANT_14(
	Freq Level Li	mit Line Leve	dAntenna Cabl 1 Factor Los 	s Factor		Remark		
					-	Deels		
2 P 1 3 1 4 ! 4 5 Q 4	.08.57 39.27 -4 .67.74 40.30 -3 .97.81 35.81 -7 .38.37 42.26 -3 .97.54 43.57 -2 .27.61 42.33 -3	.20 43.50 58.3 .69 43.50 54.2 .74 46.00 53.2 .43 46.00 53.2	8 10.79 1.5 5 10.21 1.6 0 16.22 2.3 4 17.15 2.5	7 30.44 9 30.34 8 29.54 2 29.34	100 180 203 0 100 78	Peak QP QP		
2 P 1 3 1 4 ! 4 5 Q 4	MHz dBuV/m .08.57 39.27 -4 .67.74 40.30 -3 .97.81 35.81 -7 .38.37 42.26 -3 .97.54 43.57 -2	dB dBuV/m dBu .23 43.50 58.0 .20 43.50 58.3 .69 43.50 54.2 .74 46.00 53.2 .43 46.00 53.2	V dB/m d 0 10.60 1.3 8 10.79 1.5 5 10.21 1.6 0 16.22 2.3 4 17.15 2.5	B dB 1 30.64 7 30.44 9 30.34 8 29.54 2 29.34	100 180 203 0 100 78	Peak Peak QP QP QP		





Test Mode :	Mode 3		Tempe	erature :	24~25°C			
Test Engineer :	Robin Luo		Relativ	ve Humidity :	48~49%			
Test Distance :	3m		Polariz	zation :	Vertical			
Function True	GSM850	ldle + Bluet	ooth Idle +	WLAN Idle	+ USB Ca	able (Data	Link v	
Function Type :	Notebook)	+ Earphone	+ SIM1					
117 Leve	el (dBuV/m)					Date: 2014-01	-22	
110								
90								
						FCC CLASS	S-B dB-	
70								
						FCC CLASS-B (A)	-	
50	5_					6	dB	
2 ₃								
30							_	
10								
0 <mark>30</mark>	1000.	3000.	5000.	7000. 9	000.	11000. 1	3000	
	10001	00001		ncy (MHz)				
Site	: 03CH01	-SZ ASS-B 3m LF_AI	JT 140102 VER	TICAI				
Condition Project	: (FC)410	703						
Condition			Deedleteere		(Dag. T.(Dag			
Condition Project	: (FC)410	Over Limit	ReadAntenna Level Factor	Cable Preamp A Loss Factor	/Pos T/Pos	Remark		
Condition Project	: (FC)410 : Mode 3	Over Limit Limit Line		Loss Factor	V/Pos T/Pos	Remark		
Condition Project Mode	: (FC)410 : Mode 3 Freq Level MHz dBuV/m 111.48 31.72	Over Limit Limit Line 	Level Factor dBuV dB/m 50.20 10.82	Loss Factor dB 1.33 30.63	cm deg	Peak		
Condition Project Mode	: (FC)410 : Mode 3 Freq Level MHz dBuV/m 111.48 31.72 167.74 38.48 335.55 37.16	Over Limit Limit Line dB dBuV/m -11.78 43.50 -5.02 43.50 -8.84 46.00	Level Factor dBuV dB/m 50.20 10.82 56.56 10.79 50.80 14.12	Loss Factor 	deg	Peak Peak Peak		
Condition Project Mode 1 2 ! 3 4 Q 5 P	: (FC)410 : Mode 3 Freq Level MHz dBuV/m 111.48 31.72 167.74 38.48 335.55 37.16 491.72 43.84 576.11 42.01	Over Limit Limit Line dB dBuV/m -11.78 43.50 -5.02 43.50 -8.84 46.00 -2.16 46.00 -3.99 46.00	Level Factor dBuV dB/m 50.20 10.82 56.56 10.79 50.80 14.12 53.66 17.03 49.98 18.55	Loss Factor dB dB 1.33 30.63 1.57 30.44 2.12 29.88 2.51 29.36	cm deg 100 0 	Peak Peak Peak		



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
ESCIO Test Receiver	R&S	ESCI	100724	9kHz~3GHz	Mar. 29, 2013	Jan. 15, 2014~ Jan. 16, 2014	Mar. 28, 2014	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 28, 2013	Jan. 15, 2014~ Jan. 16, 2014	Mar. 27, 2014	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 28, 2013	Jan. 15, 2014~ Jan. 16, 2014	Mar. 27, 2014	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Nov. 20, 2013	Jan. 15, 2014~ Jan. 16, 2014	Nov. 19, 2014	Conduction (CO01-SZ)
Spectrum Analyzer	Agilent Technologies	N9038A	MY52260 185	20Hz~26.5GHz	Apr. 04, 2013	Jan. 22, 2014	Apr. 03, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Jan. 22, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Bilog Antenna	SCHAFFNER	CBL6112B	2614	30MHz~2GHz	Dec. 26, 2013	Jan. 22, 2014	Dec. 25, 2014	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz GAIN 30db	Mar. 28, 2013	Jan. 22, 2014	Mar. 27, 2014	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	Mar. 28, 2013	Jan. 22, 2014	Mar. 27, 2014	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0 ~ 360 degree	N/A	Jan. 22, 2014	N/A	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m - 4 m	N/A	Jan. 22, 2014	N/A	Radiation (03CH01-SZ)



5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of	2.26
Confidence of 95% (U = 2Uc(y))	2.26

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	3.90
Confidence of 95% (U = 2Uc(y))	3.90