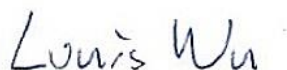


FCC Test Report

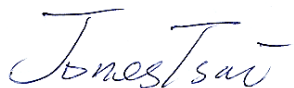
APPLICANT : Brightstar Corporation
EQUIPMENT : Smartphone
BRAND NAME : Avvio
MODEL NAME : Avvio 753S, Avvio 753
FCC ID : WVBA753X
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Aug. 26, 2015 and testing was completed on Sep. 02, 2015. 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 C63.4-2009 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.



Reviewed by: Louis Wu / Manager



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL (SHENZHEN) INC.

**1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,
Nanshan District, Shenzhen, Guangdong, P. R. China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC582603	Rev. 01	Initial issue of report	Sep. 18, 2015



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 17.89 dB at 0.940 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 3.44 dB at 592.600 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

KCMobile Co., Ltd

#1305-1, Kolon Digital Tower Villant II , 31, Digital-ro 30-gil, Guro-Gu, Seoul, KOREA (152-727)

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Smartphone
Brand Name	Avvio
Model Name	Avvio 753S,Avvio 753
FCC ID	WVBA753X
EUT supports Radios application	GSM/GPRS/EGPRS(Downlink Only)/ WCDMA/HSPA/HSPA+(Downlink Only) WLAN 2.4GHz 802.11b/g/n HT20/HT40/ Bluetooth v3.0 + EDR/Bluetooth v4.0 LE
IMEI Code	Conduction: 353042070002527/353042070002535 Radiation: 353042070002501/353042070002519
HW Version	Y721_MB_V2
SW Version	Avvio.753.CC.W25.V01
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. The difference of the two samples (Model Name: Avvio 753, Avvio 753S): Avvio 753 is single SIM card, Avvio 753S is dual SIM card. We only choose dual SIM sample to perform full tests.

1.4. Product Specification subjective to this standard

Product Specification subjective to this standard	
Tx Frequency	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
Rx Frequency	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
Antenna Type	WWAN : FPC Antenna WLAN : PIFA Antenna Bluetooth : PIFA Antenna GPS: PIFA Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK/(MCS 5-9): 8PSK (Downlink Only) WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM (Downlink Only) 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GPS : BPSK

1.5. Modification of EUT

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

1.6. Test Location

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.	
Test Site Location	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
Test Site No.	Sporton Site No.	
	CO01-SZ	

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

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 C63.4-2009

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 C63.4-2009 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).

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

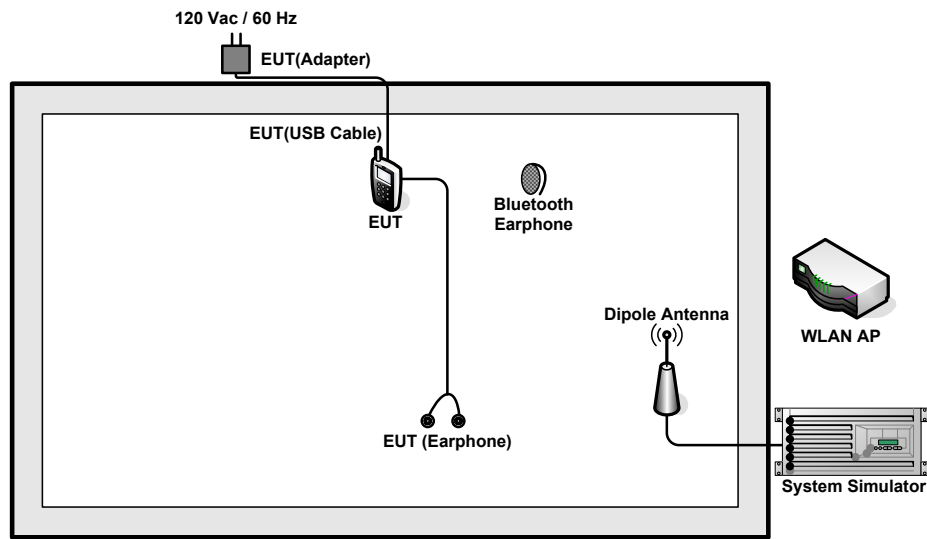
Item	EUT Configuration	Test Condition		
		EMI AC	EMI RE<1G	EMI RE≥1G
1.	Charging Mode (EUT with adapter)	☒	☒	☒
2.	Data application transferred mode (EUT connected with notebook)	☒	☒	☒

Abbreviations:

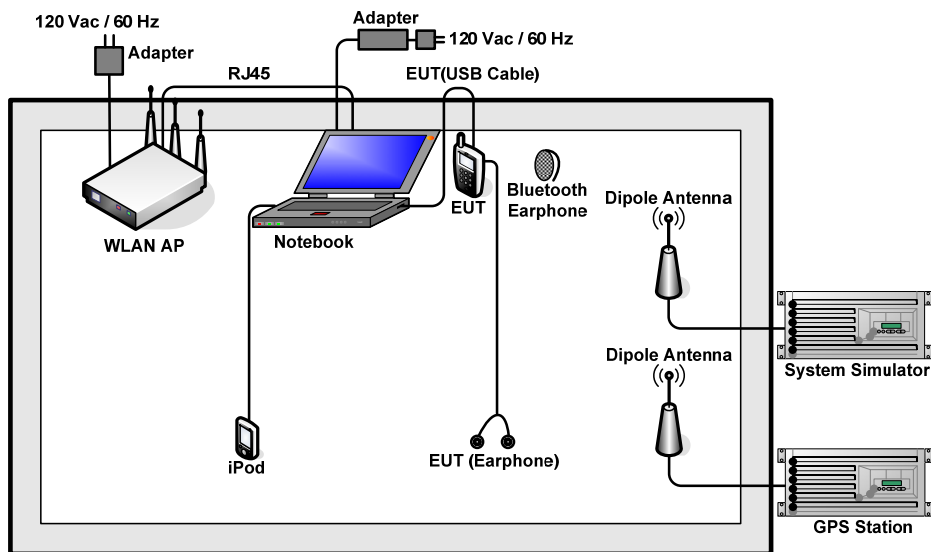
- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <Fig.1> Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 2 <Fig.1> Mode 3: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM 1 <Fig.2>
Radiated Emissions < 1GHz	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <Fig.1> Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 2 <Fig.1> Mode 3: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM 1 <Fig.2>
Radiated Emissions ≥ 1GHz	1/2	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1 <Fig.1> Mode 2: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM 1 <Fig.2>
Remark: - The worst case of AC is mode 1, and the USB Link mode of AC is mode 3, the test data of these modes were reported. - The worst case of RE < 1G is mode 1, and the USB Link mode of RE is mode 3, the test data of these modes were reported. - Link with Notebook means data application transferred mode between EUT and Notebook.		

2.2. Connection Diagram of Test System



<Fig.1>



<Fig.3>

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	CMU200	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	G540	FCC DoC	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Nokia	BH-108	PYAHS-107W	N/A	N/A
5.	WLAN AP	D-Link	DIR-615	N/A	N/A	Unshielded, 1.8 m
6.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
7.	WLAN AP	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7 m
8.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
9.	iPod	Apple	MC525 ZP/A	FCC DoC	Shielded, 1.0 m	N/A
10.	iPod nano 8GB	Apple	MC690 ZP/A	FCC DoC	Shielded, 1.2 m	N/A

2.4. EUT Operation Test Setup

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

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 (MHz)	Conducted limit (dBuV)	
	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.

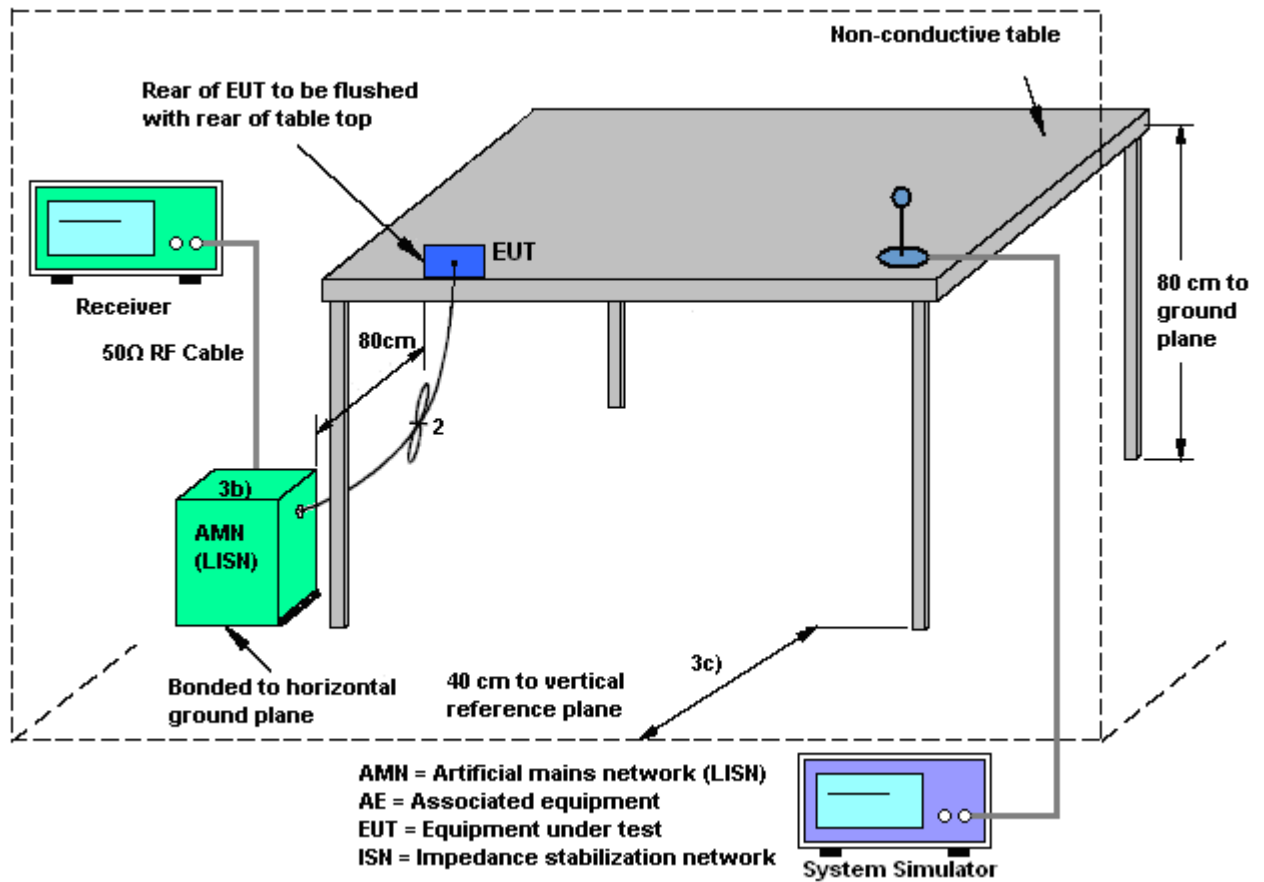
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

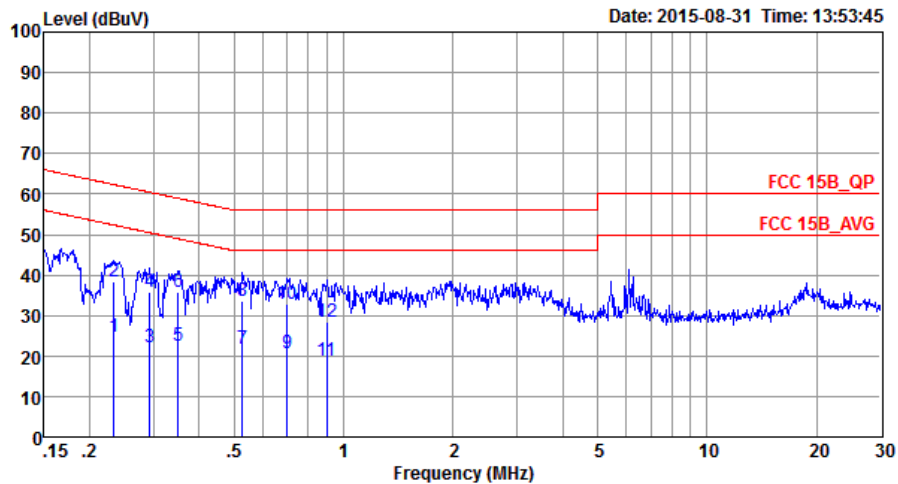
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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 (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1		

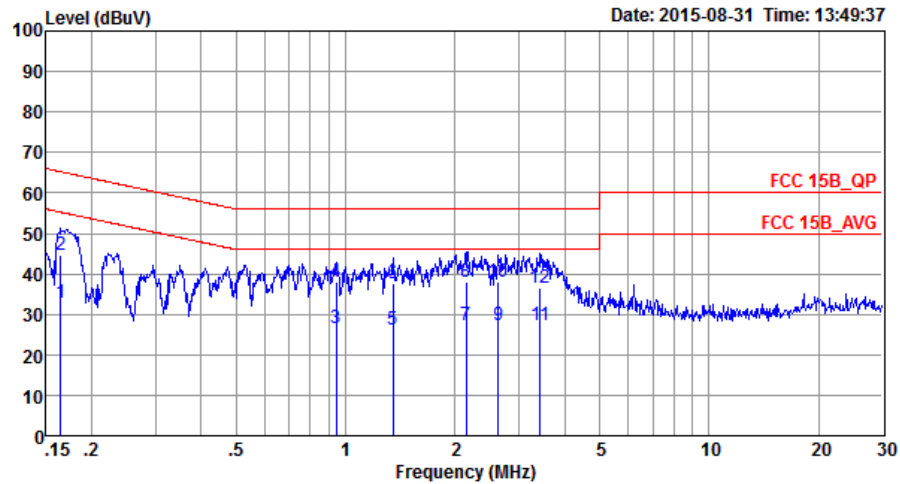


Site : CO01-SZ
 Condition: FCC 15B_QP LISN_L_20150304 LINE
 Project : (FC)582603
 Mode : Mode 1
 IMEI : 353042070002527/353042070002535

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.23	24.80	-27.55	52.35	14.00	0.54	10.26	Average
2	0.23	38.40	-23.95	62.35	27.60	0.54	10.26	QP
3	0.29	22.07	-28.39	50.46	11.29	0.57	10.21	Average
4	0.29	35.77	-24.69	60.46	24.99	0.57	10.21	QP
5	0.35	22.34	-26.62	48.96	11.61	0.55	10.18	Average
6	0.35	35.94	-23.02	58.96	25.21	0.55	10.18	QP
7	0.53	21.80	-24.20	46.00	11.00	0.65	10.15	Average
8 *	0.53	33.70	-22.30	56.00	22.90	0.65	10.15	QP
9	0.70	20.49	-25.51	46.00	9.80	0.54	10.15	Average
10	0.70	32.69	-23.31	56.00	22.00	0.54	10.15	QP
11	0.90	18.77	-27.23	46.00	8.10	0.52	10.15	Average
12	0.90	28.47	-27.53	56.00	17.80	0.52	10.15	QP



Test Mode :	Mode 1	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1		

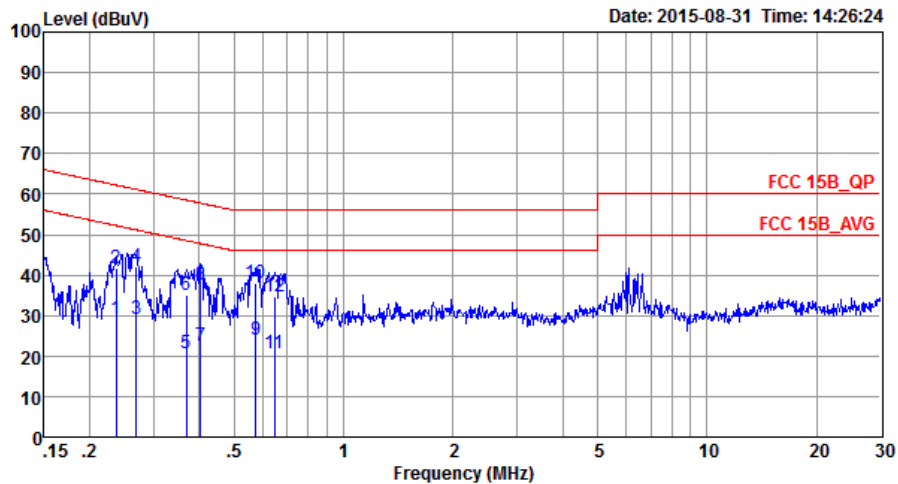


Site : CO01-SZ
Condition: FCC 15B_QP LISN_N_20150304 NEUTRAL
Project : (FC)582603
Mode : Mode 1
IMEI : 353042070002527/353042070002535

	Freq	Level	Over Limit	Limit	Read	LISN	Cable	
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	Remark
1	0.16	32.91	-22.34	55.25	22.10	0.47	10.34	Average
2	0.16	44.81	-20.44	65.25	34.00	0.47	10.34	QP
3	0.94	26.51	-19.49	46.00	15.80	0.56	10.15	Average
4 *	0.94	38.11	-17.89	56.00	27.40	0.56	10.15	QP
5	1.35	26.03	-19.97	46.00	15.30	0.56	10.17	Average
6	1.35	37.73	-18.27	56.00	27.00	0.56	10.17	QP
7	2.14	27.17	-18.83	46.00	16.40	0.58	10.19	Average
8	2.14	37.97	-18.03	56.00	27.20	0.58	10.19	QP
9	2.64	27.30	-18.70	46.00	16.51	0.59	10.20	Average
10	2.64	38.00	-18.00	56.00	27.21	0.59	10.20	QP
11	3.44	27.24	-18.76	46.00	16.40	0.62	10.22	Average
12	3.44	36.64	-19.36	56.00	25.80	0.62	10.22	QP



Test Mode :	Mode 3	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM 1		

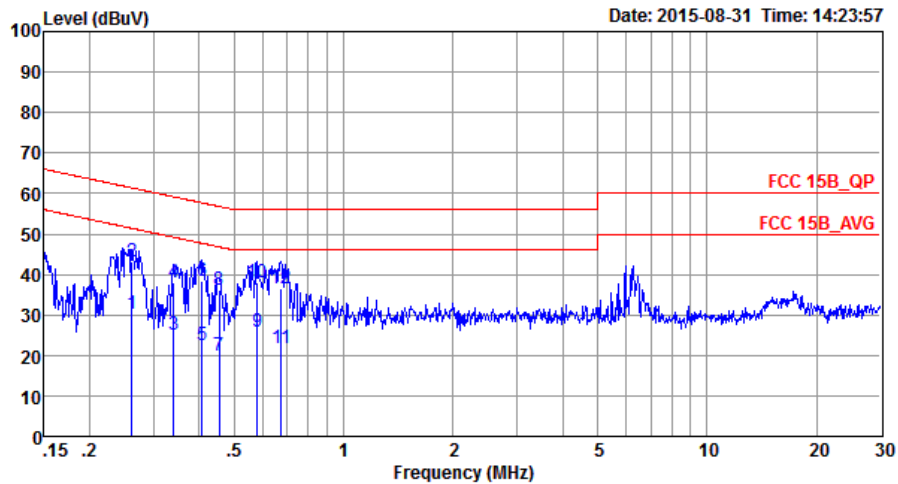


Site : CO01-SZ
Condition: FCC 15B_QP LISN_L_20150304 LINE
Project : (FC)582603
Mode : Mode 3
IMEI : 353042070002527/353042070002535

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.24	29.20	-23.02	52.22	18.41	0.54	10.25	Average
2	0.24	41.70	-20.52	62.22	30.91	0.54	10.25	QP
3	0.27	29.18	-21.98	51.16	18.39	0.56	10.23	Average
4	0.27	42.08	-19.08	61.16	31.29	0.56	10.23	QP
5	0.37	20.73	-27.79	48.52	10.00	0.55	10.18	Average
6	0.37	34.93	-23.59	58.52	24.20	0.55	10.18	QP
7	0.40	22.52	-25.25	47.77	11.81	0.54	10.17	Average
8	0.40	37.62	-20.15	57.77	26.91	0.54	10.17	QP
9	0.57	24.07	-21.93	46.00	13.30	0.62	10.15	Average
10 *	0.57	37.97	-18.03	56.00	27.20	0.62	10.15	QP
11	0.64	20.82	-25.18	46.00	10.10	0.57	10.15	Average
12	0.64	34.72	-21.28	56.00	24.00	0.57	10.15	QP



Test Mode :	Mode 3	Temperature :	21~23℃
Test Engineer :	Jacky Yang	Relative Humidity :	41~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM 1		



Site : C001-SZ
Condition: FCC 15B_QP LISN_N_20150304 NEUTRAL
Project : (FC)582603
Mode : Mode 3
IMEI : 353042070002527/353042070002535

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.26	30.29	-21.09	51.38	19.50	0.56	10.23	Average
2	0.26	42.99	-18.39	61.38	32.20	0.56	10.23	QP
3	0.34	25.26	-23.92	49.18	14.50	0.57	10.19	Average
4	0.34	38.06	-21.12	59.18	27.30	0.57	10.19	QP
5	0.41	22.52	-25.16	47.68	11.80	0.55	10.17	Average
6	0.41	38.42	-19.26	57.68	27.70	0.55	10.17	QP
7	0.45	19.84	-26.96	46.80	9.10	0.58	10.16	Average
8	0.45	36.24	-20.56	56.80	25.50	0.58	10.16	QP
9	0.58	25.84	-20.16	46.00	15.11	0.58	10.15	Average
10 *	0.58	38.04	-17.96	56.00	27.31	0.58	10.15	QP
11	0.67	21.91	-24.09	46.00	11.20	0.56	10.15	Average
12	0.67	36.71	-19.29	56.00	26.00	0.56	10.15	QP

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

3.2.2. Measuring Instruments

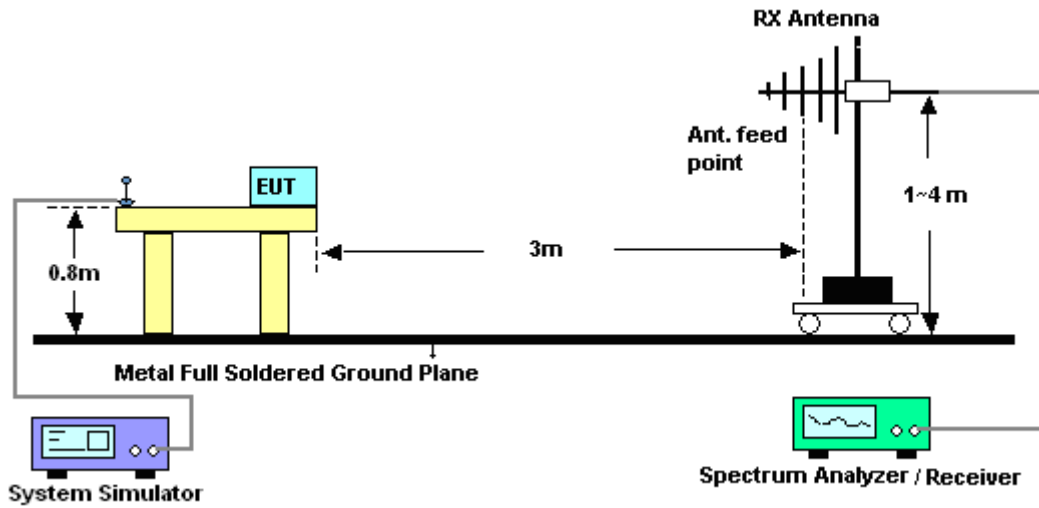
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

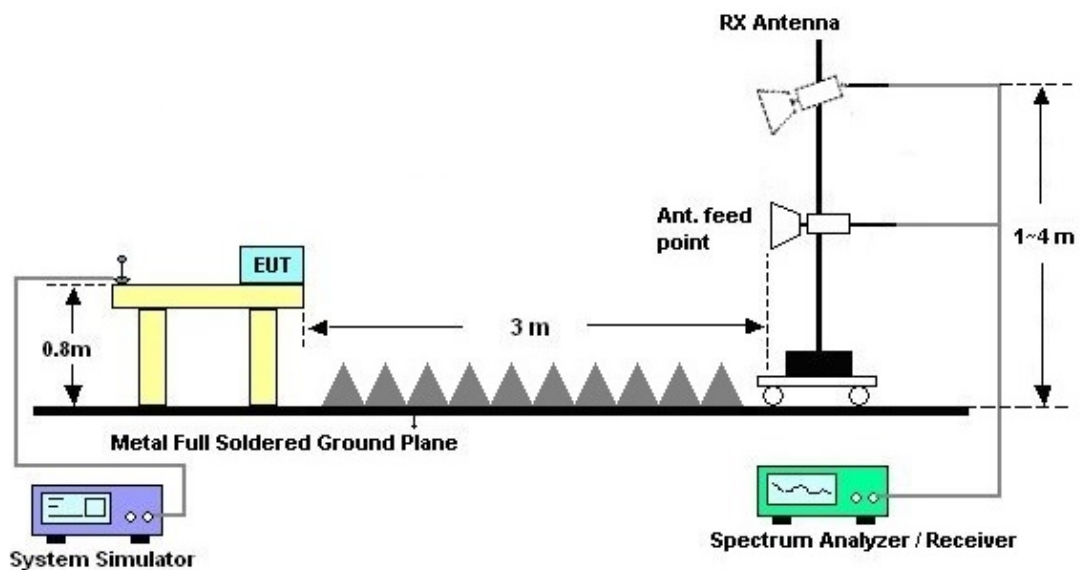
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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.
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 (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 (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

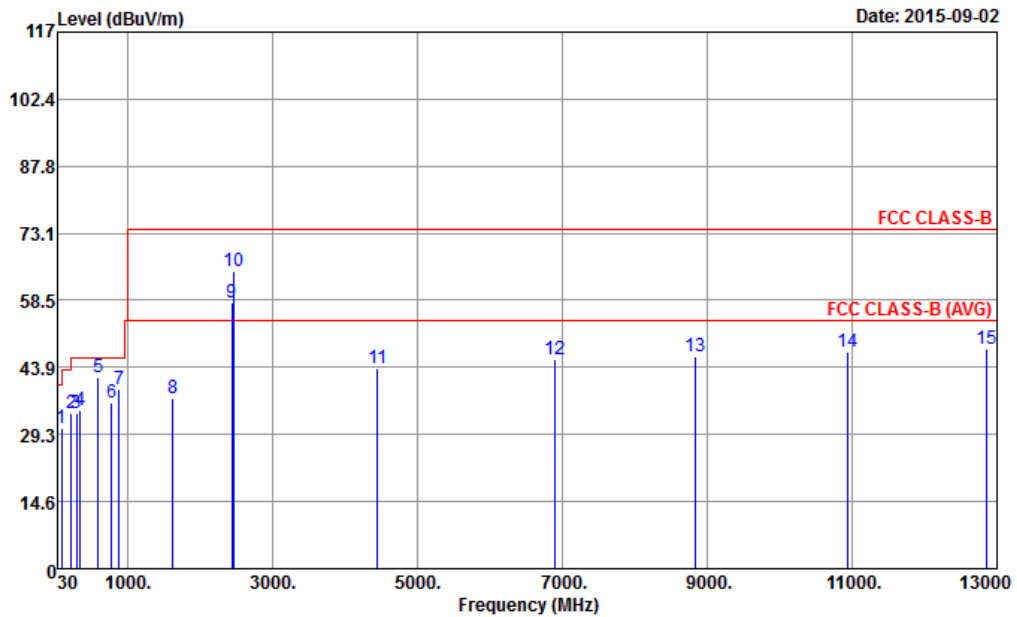


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 1	Temperature :	23~25°C
Test Engineer :	Kaer Huang	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1		
Remark :	#7 is system simulator signal which can be ignored. #9 and #10 are RF signals which can be ignored.		

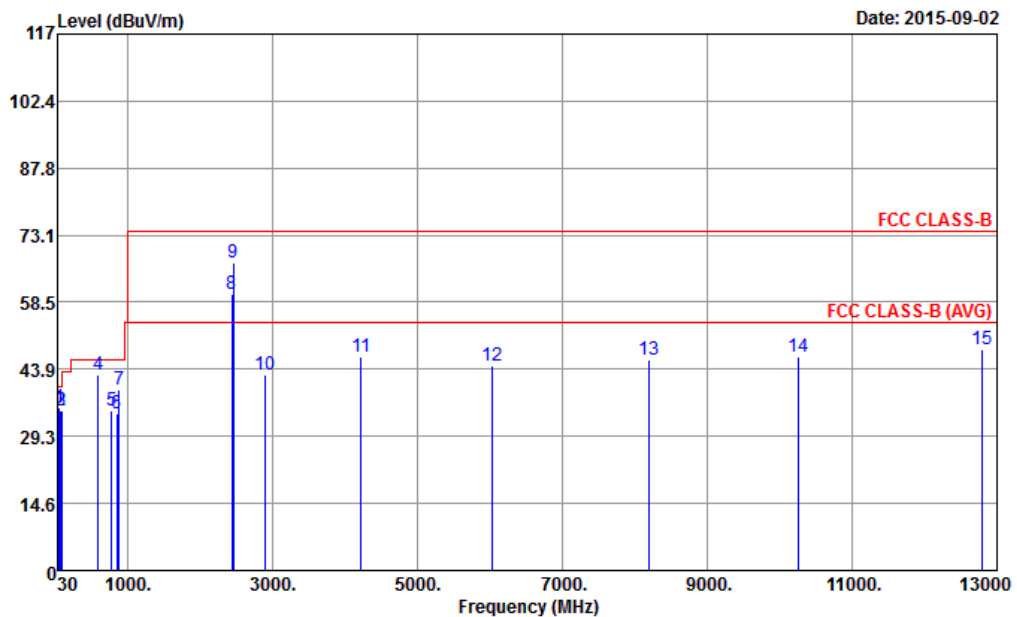


Site : 03CH01-SZ
 Condition : FCC CLASS-B 3m LF_ANT_141107 HORIZONTAL
 Project : (FC) 582603
 Mode : Mode 1
 Sample : 353042070002501/353042070002519
 Plane : Y

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	cm	deg	
			dB	dBuV/m	dBuV	dB/m	dB	dB		
1	89.94	30.65	-12.85	43.50	44.61	10.50	1.36	25.82	---	Peak
2	216.03	33.82	-12.18	46.00	45.04	11.86	2.14	25.22	---	Peak
3	296.49	34.02	-11.98	46.00	42.56	14.00	2.51	25.05	---	Peak
4	346.20	34.46	-11.54	46.00	42.45	14.71	2.70	25.40	---	Peak
5	592.60	41.61	-4.39	46.00	44.70	19.68	3.66	26.43	100	20 Peak
6	780.20	36.33	-9.67	46.00	36.20	22.05	4.29	26.21	---	Peak
7	881.70	39.05			38.59	21.77	4.62	25.93	---	Peak
8	1620.00	37.26	-36.74	74.00	52.52	28.67	6.88	50.81	---	Peak
9	2436.00	58.06			67.24	32.63	8.69	50.50	---	Peak
10	2460.00	64.93			74.02	32.67	8.69	50.45	---	Peak
11	4450.00	43.51	-30.49	74.00	48.46	34.17	12.66	51.78	---	Peak
12	6902.00	45.73	-28.27	74.00	45.84	36.14	14.51	50.76	---	Peak
13	8838.00	46.37	-27.63	74.00	42.92	36.60	16.52	49.67	---	Peak
14	10938.00	47.29	-26.71	74.00	41.54	38.77	17.73	50.75	---	Peak
15	12854.00	47.75	-26.25	74.00	39.88	39.09	18.74	49.96	125	80 Peak



Test Mode :	Mode 1	Temperature :	23~25°C
Test Engineer :	Kaer Huang	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Vertical
Function Type :	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1		
Remark :	#7 is system simulator signal which can be ignored. #8 and #9 are RF signals which can be ignored.		

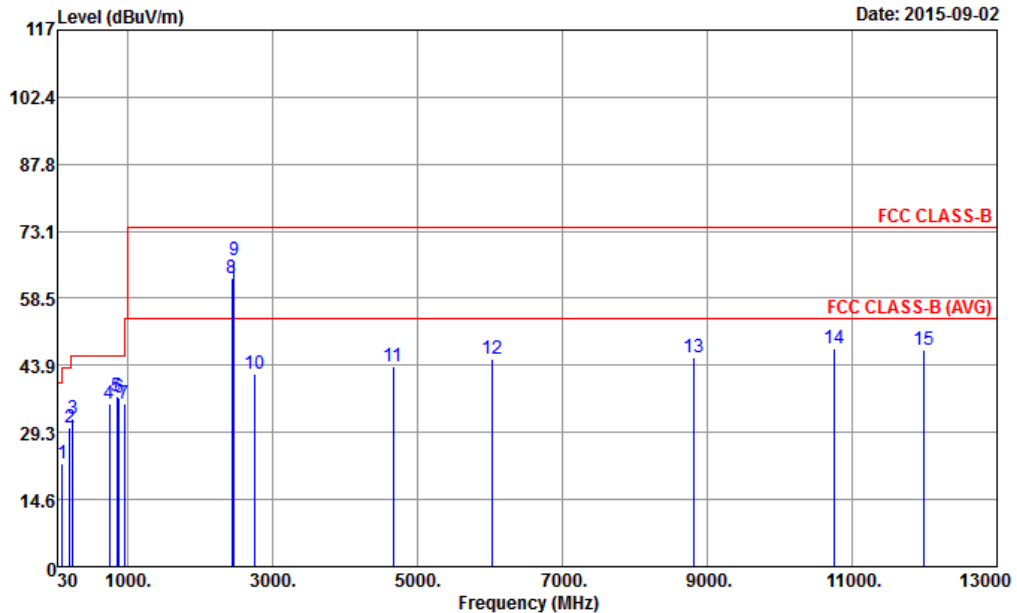


Site : 03CH01-SZ
Condition : FCC CLASS-B 3m LF_ANT_141107 VERTICAL
Project : (FC) 582603
Mode : Mode 1
Sample : 353042070002501/353042070002519
Plane : Y

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	cm	deg	
			dB	dBuV/m	dBuV	dB/m	dB	dB		
1	59.97	35.45	-4.55	40.00	51.80	8.50	1.09	25.94	---	Peak
2	75.09	34.77	-5.23	40.00	50.09	9.33	1.23	25.88	---	Peak
3	89.94	34.90	-8.60	43.50	48.86	10.50	1.36	25.82	---	Peak
4	592.60	42.56	-3.44	46.00	45.65	19.68	3.66	26.43	125	80 QP
5	780.20	34.73	-11.27	46.00	34.60	22.05	4.29	26.21	---	Peak
6	849.50	34.07	-11.93	46.00	33.50	22.05	4.54	26.02	---	Peak
7	881.70	39.48			39.02	21.77	4.62	25.93	---	Peak
8	2436.00	60.36			69.54	32.63	8.69	50.50	---	Peak
9	2460.00	67.02			76.11	32.67	8.69	50.45	---	Peak
10	2890.00	42.62	-31.38	74.00	50.83	33.01	9.60	50.82	---	Peak
11	4218.00	46.65	-27.35	74.00	52.07	34.03	12.34	51.79	---	Peak
12	6032.00	44.69	-29.31	74.00	44.78	35.83	13.79	49.71	---	Peak
13	8192.00	45.79	-28.21	74.00	43.29	36.39	16.09	49.98	---	Peak
14	10248.00	46.50	-27.50	74.00	40.84	38.30	17.53	50.17	---	Peak
15	12800.00	48.16	-25.84	74.00	40.25	39.12	18.72	49.93	125	80 Peak



Test Mode :	Mode 3	Temperature :	23~25°C
Test Engineer :	Kaer Huang	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM 1		
Remark :	#6 is system simulator signal which can be ignored. #8 and #9 are RF signals which can be ignored.		

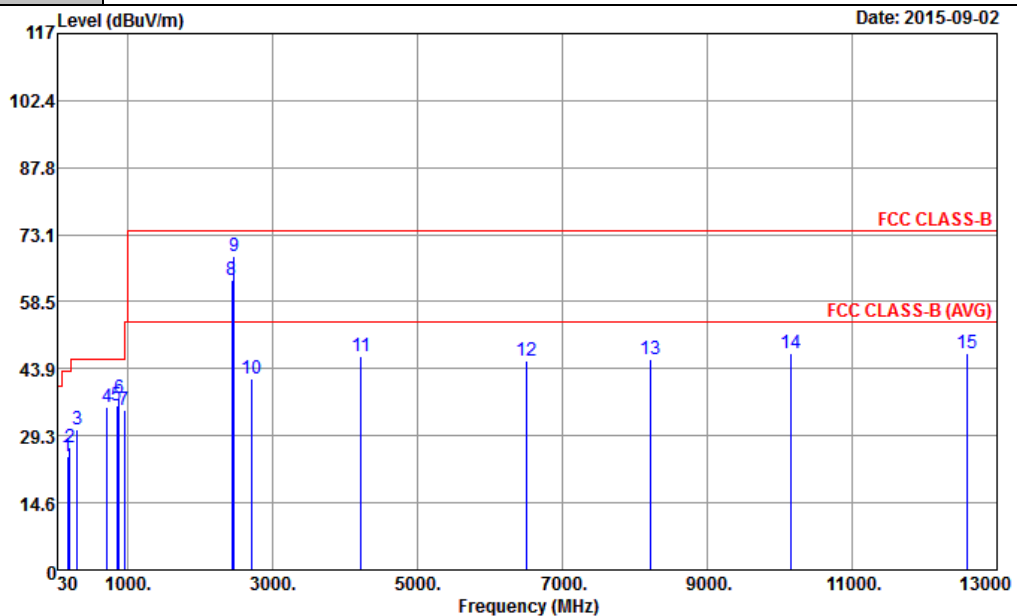


Site : 03CH01-SZ
Condition : FCC CLASS-B 3m LF_ANT_141107 HORIZONTAL
Project : (FC) 582603
Mode : Mode 3
Sample : 353042070002501/353042070002519
Plane : Y

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor			
			dB	dBuV/m	dBuV	dB	dB	cm	deg	
1	99.93	22.65	-20.85	43.50	35.28	11.70	1.45	25.78	---	Peak
2	200.10	30.41	-13.09	43.50	42.00	11.60	2.06	25.25	---	Peak
3	240.06	32.31	-13.69	46.00	42.96	12.25	2.26	25.16	---	Peak
4	749.40	35.49	-10.51	46.00	36.18	21.39	4.19	26.27	---	Peak
5	849.50	37.15	-8.85	46.00	36.58	22.05	4.54	26.02	125	86 Peak
6	881.70	36.88			36.42	21.77	4.62	25.93	---	Peak
7	949.60	35.57	-10.43	46.00	34.81	21.40	4.85	25.49	---	Peak
8	2440.00	62.86			72.00	32.65	8.69	50.48	---	Peak
9	2468.00	66.66			75.66	32.67	8.78	50.45	---	Peak
10	2752.00	42.01	-31.99	74.00	50.43	32.90	9.35	50.67	---	Peak
11	4660.00	43.57	-30.43	74.00	47.81	34.29	12.76	51.29	---	Peak
12	6034.00	45.29	-28.71	74.00	45.38	35.83	13.79	49.71	---	Peak
13	8816.00	45.75	-28.25	74.00	42.17	36.58	16.65	49.65	---	Peak
14	10758.00	47.44	-26.56	74.00	42.22	38.66	17.17	50.61	125	75 Peak
15	11988.00	47.22	-26.78	74.00	39.49	39.49	18.19	49.95	---	Peak



Test Mode :	Mode 3	Temperature :	23~25°C
Test Engineer :	Kaer Huang	Relative Humidity :	48~52%
Test Distance :	3m	Polarization :	Vertical
Function Type :	GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + GPS Rx + SIM 1		
Remark :	#6 is system simulator signal which can be ignored. #8 and #9 are RF signals which can be ignored.		



Site : 03CH01-SZ
 Condition : FCC CLASS-B 3m LF_ANT_141107 VERTICAL
 Project : (FC) 582603
 Mode : Mode 3
 Sample : 353042070002501/353042070002519
 Plane : Y

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	166.62	24.71	-18.79	43.50	36.30	11.97	1.86	25.42	---	Peak
2	199.83	26.79	-16.71	43.50	38.38	11.60	2.06	25.25	---	Peak
3	299.73	30.63	-15.37	46.00	39.05	14.10	2.52	25.04	---	Peak
4	715.10	35.50	-10.50	46.00	37.16	20.62	4.06	26.34	---	Peak
5	849.50	35.93	-10.07	46.00	35.36	22.05	4.54	26.02	200	125 Peak
6	881.70	37.35			36.89	21.77	4.62	25.93	---	Peak
7	949.60	35.01	-10.99	46.00	34.25	21.40	4.85	25.49	---	Peak
8	2442.00	63.30			72.44	32.65	8.69	50.48	---	Peak
9	2470.00	68.57			77.57	32.67	8.78	50.45	---	Peak
10	2702.00	41.86	-32.14	74.00	50.35	32.86	9.27	50.62	---	Peak
11	4218.00	46.65	-27.35	74.00	52.07	34.03	12.34	51.79	---	Peak
12	6510.00	45.73	-28.27	74.00	45.34	36.30	14.41	50.32	---	Peak
13	8214.00	45.97	-28.03	74.00	43.37	36.38	16.17	49.95	---	Peak
14	10146.00	47.34	-26.66	74.00	41.44	38.22	17.76	50.08	175	98 Peak
15	12596.00	47.12	-26.88	74.00	39.23	39.24	18.47	49.82	---	Peak



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100724	9kHz~3GHz;	Jan. 28, 2015	Aug. 31, 2015	Jan. 27, 2016	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	103892	9kHz~30MHz	Feb. 02, 2015	Aug. 31, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	AN3016	16850	9kHz~30MHz	Feb. 02, 2015	Aug. 31, 2015	Feb. 01, 2016	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Aug. 07, 2015	Aug. 31, 2015	Aug. 06, 2016	Conduction (CO01-SZ)
Pulse Limiter	COM-POWER	LIT-153 Transient Limiter	53139	150kHz~30MHz	Oct. 24, 2014	Aug. 31, 2015	Oct. 23, 2015	Conduction (CO01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2015	Sep. 02, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz; Max 30dBm	Sep. 25, 2014	Sep. 02, 2015	Sep. 24, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Sep. 02, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Sep. 02, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Sep. 02, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 05, 2015	Sep. 02, 2015	May 04, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 28, 2015	Sep. 02, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Sep. 02, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 02, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 02, 2015	NCR	Radiation (03CH01-SZ)



5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.3dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.9dB
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