FCC Test Report

APPLICANT : Motorola Mobility, LLC EQUIPMENT : Mobile Cellular Phone BRAND NAME : Motorola Mobility, LLC

MODEL NAME : 3604

FCC ID : IHDT56QA4

STANDARD : FCC 47 CFR FCC Part 15 Subpart B

CLASSIFICATION: Certification

The product was received on May 30, 2014 and testing was completed on Aug. 12, 2014. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Louis Wu / Manager

Lunis Win

Approved by: Jones Tsai / Manager





Report No. : FC453016

SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

SPORTON INTERNATIONAL INC.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC453016	Rev. 01	Initial issue of report	Jul. 15, 2014
FC453016	Rev. 02	Update product specification in section 1.4	Jul. 22, 2014
FC453016	Rev. 03	Update report of adding description in section 3.1.3, revising test data for conducted emission, radiated emission and revising List of Measuring Equipment in section 4.	Aug. 12, 2014

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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	8.40 dB at
					0.150 MHz
					Under limit
3.2	15.109 Rad	Radiated Emission	< 15.109 limits	PASS	7.35 dB at
					240.060 MHz

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1. General Description

1.1. Applicant

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.2. Manufacturer

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Cellular Phone
Brand Name	Motorola Mobility, LLC
Model Name	3604
FCC ID	IHDT56QA4
IMEI	359283050005247
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/NFC WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v3.0 + EDR Bluetooth v4.0 - LE
HW Version	P2
SW Version	victara_reteu_userdebug_4.4.3_KXE21.119_25_intcfg_test -keys_reteuall_EU
EUT Stage	Identical Prototype

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Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Accessory List					
AC Adoptor	Brand Name: Motorola				
AC Adapter	Model Name: SPN5788A				
Formhana	Brand Name: Motorola				
Earphone	Model Name: SJYN1305A				

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1.4. Product Specification subjective to this standard

Product Specification subjective to this standard				
	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			
	LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz			
Tx Frequency	Bluetooth: 2402 MHz ~ 2480 MHz			
, ,	802.11b/g/n: 2412 MHz ~ 2462 MHz			
	802.11a/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz;			
	5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700			
	MHz ; 5745 MHz ~ 5825 MHz			
	NFC: 13.56 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			
	LTE Band 7 : 2622.5MHz ~ 2687.5 MHz			
Rx Frequency	802.11b/g/n: 2412 MHz ~ 2462 MHz			
TX Trequency	802.11a/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz;			
	5500 MHz ~ 5580 MHz and 5660 MHz ~ 5700			
	MHz ; 5745 MHz ~ 5825 MHz			
	Bluetooth: 2402 MHz ~ 2480 MHz			
	GPS : 1.57542 GHz			
	NFC : 13.56 MHz			
	WWAN : Fixed Internal Antenna			
	LTE: Fixed Internal Antenna			
Antenna Type	WLAN: Fixed Internal Antenna			
	Bluetooth : Fixed Internal Antenna			
	GPS : Fixed Internal Antenna			
	NFC : Loop Antenna GSM: GMSK			
	GSW. GWSK GPRS: GMSK			
	EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK			
	WCDMA: QPSK (Uplink)			
	HSDPA: QPSK (Uplink)			
	HSUPA: QPSK (Uplink)			
	802.11b: DSSS (DBPSK / DQPSK / CCK)			
Type of Modulation	802.11a/g/n/ac : OFDM (BPSK / QPSK / 16QAM / 64QAM /			
Type or iniculation	256QAM)			
	Bluetooth LE : GFSK			
	Bluetooth (1Mbps) : GFSK			
	Bluetooth (2Mbps) : π /4-DQPSK			
	Bluetooth (3Mbps): 8-DPSK			
	GPS: BPSK			
	NFC: ASK			

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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 Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site SPORTON INTERNATIONAL INC.			
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,		
Took Cita Lagation	Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.		
Test Site Location	TEL: +886-3-327-3456		
	FAX: +886-3-328-4978		
Toot Site No	Sporton	Site No.	
Test Site No.	CO05-HY	03CH08-HY	

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:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. For FCC 15 Subpart B Unintentional Radiators, device supports FM Radio (Receiver) shall be authorized as "FM broadcast receiver" per the Section 15.101 (a) Equipment authorization of unintentional radiators.
- 3. For other Unintentional Radiators features of this EUT, test reports are issued separately. Per the Note of the Section 15.101, when device supports features (USB, FM Radio, digital devices...etc.) more than one category of authorization, type of authorization shall be appropriately chosen for FCC 15B compliance rule, and the Section 15.101 (b), only those receivers that operate (tune) within the frequency range of 30-960 MHz, CB receivers and radar detectors are subject to the authorizations shown in paragraph (a) of the Section 15.101. However, receivers indicated as being subject to Declaration of Conformity that are contained within a transceiver, the transmitter portion of which is subject to certification, shall be authorized under the verification procedure

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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.

		Test Condition			
Item	EUT Configuration	EMI	EMI	EMI	
		AC	RE<1G	RE≥1G	
1.	Data application transferred mode (EUT with notebook)	\boxtimes	\boxtimes	\boxtimes	

Abbreviations:

EMI AC: AC conducted emissions

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz

EMI RE < 1G: EUT radiated emissions < 1GHz

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Test Items	EUT Configure Mode	Function Type
A.C. Coundy sete d		Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + Earphone + GPS Rx + Battery + USB Cable (Data Link with Notebook)
AC Conducted Emission	1	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone + GPS Rx + Battery + USB Cable (Data Link with Notebook)
Radiated	Dadiete d	Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + Earphone + GPS Rx + Battery + USB Cable (Data Link with Notebook)
Emissions < 1GHz	1	Mode 2: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone + GPS Rx + Battery + USB Cable (Data Link with Notebook)
Radiated Emissions ≥ 1GHz	1	Mode 1: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone + GPS Rx + Battery + USB Cable (Data Link with Notebook)

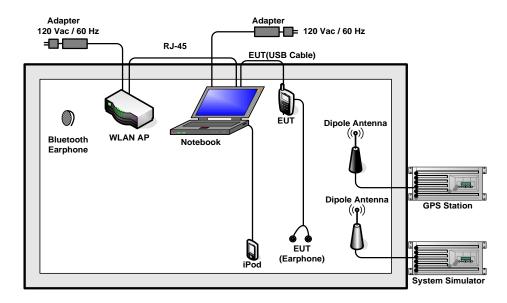
Remark:

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

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2.2. Connection Diagram of Test System



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	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
6.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A

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2.4. EUT Operation Test Setup

The EUT was in GSM and WCDMA idle mode during the testing. The EUT was synchronized to the BCCH, and was in continuously 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 Laptop and EUT via USB cable.
- 2. Execute "GPS Test" to make the EUT continuously receive signals from GPS station.

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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

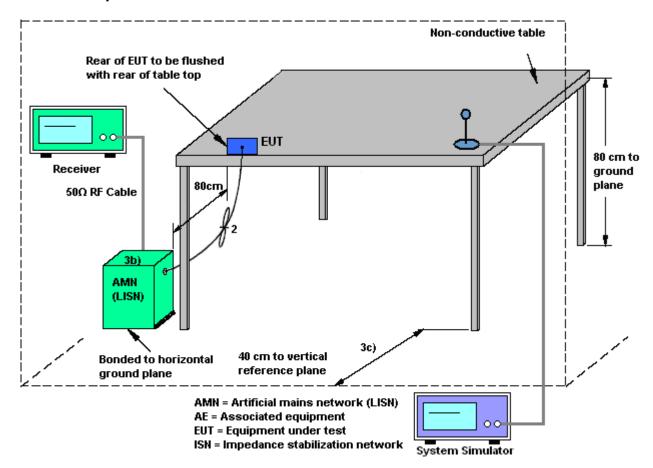
- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. The AC adapter of Notebook was connected to the line impedance stabilization network (LISN).
- 3. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 4. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 5. Both sides of AC line were checked for maximum conducted interference.
- 6. The frequency range from 150 kHz to 30 MHz was searched.
- 7. 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 with 9kHz IF Bandwidth.

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3.1.4 Test Setup



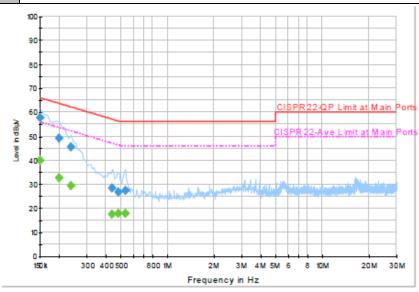
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3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	Temperature :	20~22 ℃
Test Engineer :	Cosmo Xu	Relative Humidity :	46~48%
Test Voltage :	st Voltage: 120Vac / 60Hz Pl		Line
	WCDMA Bond II Idla - Blustooth Idla - WI AN Idla - Fornbons - CDS F		

Function Type: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone + GPS Rx + Battery + USB Cable (Data Link with Notebook)



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	57.6	Off	L1	19.3	8.4	66.0
0.198000	49.1	Off	L1	19.3	14.6	63.7
0.238000	45.5	Off	L1	19.4	16.7	62.2
0.438000	28.2	Off	L1	19.4	28.9	57.1
0.478000	26.7	Off	L1	19.5	29.7	56.4
0.534000	27.5	Off	L1	19.4	28.5	56.0

Final Result : Average

Frequency	Average	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	riilei	Line	(dB)	(dB)	(dBµV)
0.150000	39.9	Off	L1	19.3	16.1	56.0
0.198000	32.6	Off	L1	19.3	21.1	53.7
0.238000	29.2	Off	L1	19.4	23.0	52.2
0.438000	17.5	Off	L1	19.4	29.6	47.1
0.478000	18.0	Off	L1	19.5	28.4	46.4
0.534000	18.0	Off	L1	19.4	28.0	46.0

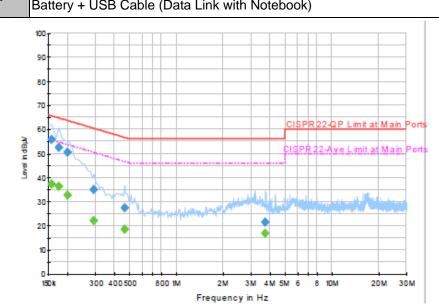
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Test Mode :	Mode 2	Temperature :	20~22℃						
Test Engineer :	Cosmo Xu	Relative Humidity :	46~48%						
Test Voltage :	120Vac / 60Hz	Phase :	Neutral						
	VCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone + GPS F								
Function Type:									



Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	55.8	Off	N	19.4	9.8	65.6
0.174000	52.5	Off	N	19.3	12.3	64.8
0.198000	50.4	Off	N	19.3	13.3	63.7
0.294000	34.8	Off	N	19.3	25.6	60.4
0.462000	27.4	Off	N	19.4	29.3	56.7
3.710000	21.4	Off	N	19.6	34.6	56.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	37.4	Off	N	19.4	18.2	55.6
0.174000	36.4	Off	N	19.3	18.4	54.8
0.198000	32.6	Off	N	19.3	21.1	53.7
0.294000	22.2	Off	N	19.3	28.2	50.4
0.462000	18.5	Off	N	19.4	28.2	46.7
3.710000	16.9	Off	N	19.6	29.1	46.0

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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 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.
- 7. Set the RBW =120kHz VBW = 300kHz to carry out measurement of frequency range below 1GHz, and RBW = 1MHz VBW = 3MHz (Peak) / VBW = 10Hz (Average) for above 1GHz.
- 8. 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.
- 9. Emission level $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$
- 10. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

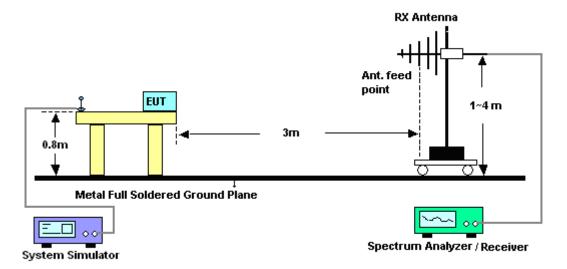
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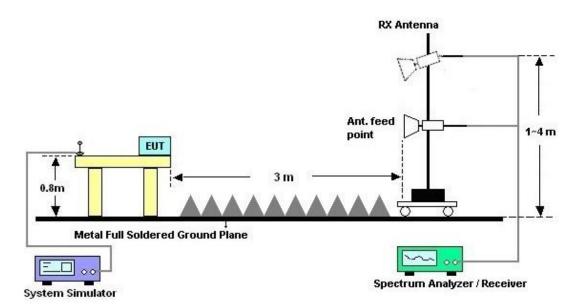
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



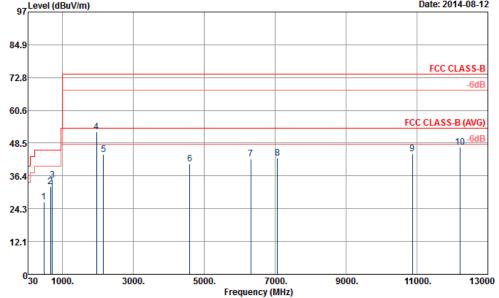
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3.2.5. Test Result of Radiated Emission

22~24°C Mode 2 Temperature : Test Mode: 47~49% Test Engineer : Luke Chang Relative Humidity: Horizontal Test Distance : 3m Polarization: WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Earphone + GPS Rx + Function Type: Battery + USB Cable (Data Link with Notebook) Remark: #4 is system simulator signal which can be ignored. 97 Level (dBuV/m) Date: 2014-08-12 84.9



Site : 03CH06-HY

Condition : FCC CLASS-B 3m HF-ANT_583_130802 HORIZONTAL

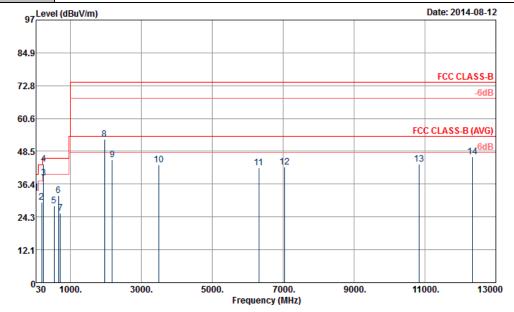
Project : 453016 Power : From System Mode : Mode 2

			_					_			
	Freq	Level	Over Limit	Limit Line		Antenna Factor		Preamp Factor	A/Pos	T/Pos	Remark
-	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	<u>dB</u>	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	—dBu∀	<u>dB</u> 7m	<u>dB</u>	<u>dB</u>		deg	
1 2 3 4 5 6 7 8 9	480.60 667.50 720.00 1960.00 2164.00 4590.00 6316.00 7070.00 10874.00 12208.00	32.37 34.79 52.64 44.41 40.75 42.58 42.89 44.70	-19.30 -13.63 -11.21 -29.59 -33.25 -31.42 -31.11 -29.30 -27.03	46.00 46.00 46.00 74.00 74.00 74.00 74.00 74.00 74.00	38.69 42.10 44.05 76.12 67.08 57.50 55.68 56.55 55.88 55.92	17.61 19.47 19.80 31.22 31.72 34.55 35.55 35.76 37.53 38.91	2.31 2.83 2.95 5.79 6.11 10.09 11.74 11.01 10.73 11.35	31.91 32.03 32.01 60.49 60.50 61.39 60.39 60.43 59.44 59.21	100	215	Peak Peak Peak Peak Peak Peak Peak Peak

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Test Mode :	Mode 2	Temperature :	22~24°C				
Test Engineer :	Luke Chang	Relative Humidity :	47~49%				
Test Distance :	3m	Polarization : Vertical					
Function Type	WCDMA Band II Idle + Blue	tooth Idle + WLAN Idle	+ Earphone + GPS Rx +				
Function Type :	Battery + USB Cable (Data Link with Notebook)						
Remark :	#8 is system simulator signa	I which can be ignored	l.				



Site : 03CH06-HY

Condition : FCC CLASS-B 3m HF-ANT_583_130802 VERTICAL

Project : 453016 Power : From System Mode : Mode 2

woae		: Mode 2									
	Freq	Level	Over Limit	Limit Line		ntenna Factor		Preamp Factor	A/Pos	T/Pos	Remark
	МНг	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	<u>dB</u>	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	—dBu∀	dB/m	<u>dB</u>	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		deg	
1	30.00	33.18	-6.82	40.00	45.84	18.50	0.64	31.80			Peak
2	194.16	29.70	-13.80	43.50	50.85	9.10	1.50	31.75			Peak
2 3	240.06	38.65	-7.35	46.00	57.21	11.49	1.69	31.74	100	231	QP
4	240.06	43.83	-2.17	46.00	62.39	11.49	1.69	31.74			Peak
5	539.40	28.31	-17.69	46.00	38.73	19.03	2.53	31.98			Peak
б	665.40	32.05	-13.95	46.00	41.80	19.45	2.83	32.03			Peak
7	718.60	25.57	-20.43	46.00	34.86	19.77	2.95	32.01			Peak
8	1960.00	52.92			76.27	31.35	5.79	60.49			Peak
9	2182.00	45.47	-28.53	74.00	68.08	31.75	6.14	60.50			Peak
10	3492.00	43.56	-30.44	74.00	64.13	32.80	8.03	61.40			Peak
11	6318.00	42.47	-31.53	74.00	55.57	35.55	11.74	60.39			Peak
12	7044.00	42.61	-31.39	74.00	56.24	35.77	11.02	60.42			Peak
13	10842.00	43.90	-30.10	74.00	55.19	37.51	10.73	59.53			Peak
14	12344.00	46.35	-27.65	74.00	55.44	39.04	11.36	59.49	100		Peak

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4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz ~ 2.75GHz	Nov. 15, 2013	Aug. 12, 2014	Nov. 14, 2014	Conduction (CO05-HY)
LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz ~ 30MHz	Dec. 12, 2013	Aug. 12, 2014	Dec. 11, 2014	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz ~ 30MHz	Dec. 04, 2013	Aug. 12, 2014	Dec. 03, 2014	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 12, 2014	N/A	Conduction (CO05-HY)
Spectrum Analyzer	R&S	FSP30	101067	9kHz ~ 30GHz	Nov. 20, 2013	Aug. 12, 2014	Nov. 19, 2014	Radiation (03CH06-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9kHz ~ 26.5GHz	Dec. 02, 2013	Aug. 12, 2014	Dec. 01, 2014	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/0003	20MHz ~ 1000MHz	May 06, 2014	Aug. 12, 2014	May 05, 2015	Radiation (03CH06-HY)
Bilog Antenna	Schaffner	CBL6112B	2885	30MHz ~ 2GHz	Oct. 10, 2013	Aug. 12, 2014	Oct. 09, 2014	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz ~ 18GHz	Jul. 24, 2014	Aug. 12, 2014	Jul. 23, 2015	Radiation (03CH06-HY)
Amplifier	SONOMA	310N	186713	9kHz ~ 1GHz	Apr. 16, 2014	Aug. 12, 2014	Apr. 15, 2015	Radiation (03CH06-HY)
Preamplifier	EMCI	EMC051845	SN980048	1GHz ~ 18GHz	Jul. 17, 2014	Aug. 12, 2014	Jul. 16, 2015	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0 ~ 360 degree	N/A	Aug. 12, 2014	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1 m ~ 4 m	N/A	Aug. 12, 2014	N/A	Radiation (03CH06-HY)

SPORTON INTERNATIONAL INC.

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5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.26
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	
Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.30
001111de110e 01 30 /0 (0 = 200(y))	

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