HONG KONG IPRO TECHNOLOGY CO., LIMITED

Smart Mobile Phone

Main Model: GLORY I Serial Model: N/A

July 04, 2014

Report No.: 14070281-FCC-R3 (This report supersedes none)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:Wiky JamAlex LiuWiky JamAlex LiuCompliance EngineerTechnical Manager

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Laboratory Introduction

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In addition to <u>testing</u> and <u>certification</u>, SIEMIC provides initial design reviews and <u>compliance</u> <u>management</u> through out a project. Our extensive experience with <u>China</u>, <u>Asia Pacific</u>, <u>North America</u>, <u>European</u>, <u>and international</u> compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the <u>global markets</u>.

SIEMIC (Shenzhen - China) Laboratories Accreditations for Conformity Assessment

Country/Region	Scope	
USA	EMC, RF/Wireless, Telecom	
Canada	EMC, RF/Wireless, Telecom	
Taiwan	EMC, RF, Telecom, Safety	
Hong Kong	RF/Wireless, Telecom	
Australia	EMC, RF, Telecom, Safety	
Korea	EMI, EMS, RF, Telecom, Safety	
Japan	EMI, RF/Wireless, Telecom	
Singapore	EMC, RF, Telecom	
Europe	EMC, RF, Telecom, Safety	

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1 EXECUTIVE SUMMARY & EUT INFORMATION

The purpose of this test programme was to demonstrate compliance of the HONG KONG IPRO TECHNOLOGY CO., LIMITED, Smart Mobile Phone and model: GLORY I against the current Stipulated Standards. The Smart Mobile Phone has demonstrated compliance with the FCC Part 15.247: 2013, ANSI C63.4: 2009.

EUT Information

EUT Description	: Smart Mobile Phone
Main Model	: GLORY I
Serial Model	: N/A
Antenna Gain	GSM850/PCS1900: 0.5 dBi UMTS-FDD Band V/UMTS-FDD Band II: 1 dBi Bluetooth/BLE: 0dBi WIFI: 0 dBi
Input Power	Battery: Model: GLORY I Spec: 3.7V 2500mAh Limited charger voltage: 4.2V Adapter: Model: NTR-S01 Input: AC 100-240V; 50/60Hz 150mA Output: DC 5.0V; 700mA
Classification Per Stipulated Test Standard	: FCC Part 15.247: 2013, ANSI C63.4: 2009

SIEMIC, INC.



Accessing pickel maints Title: RF Test Report for Smart Mobile Phone Main Model: GLORY I Serial Model: N/A To: FCC Part 15.247: 2013, ANSI C63.4: 2009 Accessing global markets RF Test Report for Smart Mobile Phone

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2 TECHNICAL DETAILS

Purpose Compliance testing of Smart Mobile Phone with stipulated standard HONG KONG IPRO TECHNOLOGY CO., LIMITED FLAT/RM A3, 9/F SILVERCORP INT TOWER 707-318 NATHAN RD MONGKOK, HONGKONG Manufacturer Manufacturer SHENZHEN ZHIKE COMMUNICATION CO., LTD 8th Floor, B Bildg. Dianzi Fuhua Jidi, Taojindi, Longsheng community, Longhua District, Shenzhen, China SIEMIC Shenzhen (Shenzhen - China) Laboratorics Cone A, Floor 1, Building 2, Wan Ye Long Tet: #66-0755-2601 4629 / 2010 4953 Fax: #86-0755-2601 4953 # 2010 Enter UT received June 63, 2014 June 03, 2014 Standard applied FCC Part 15.247: 2013, ANSI C63.4: 2009 Dates of test (from - to) June 04 to June 27, 2014 No of Units : #1 Equipment Category : UMTS Trade Name : IPRO GSMMS0 TX : 824.2 - 848.8 MHz; RX : 869.2 - 893.8 MHz KF Operating Frequency (ies) GSMMS0 TX : 824.2 - 844.6 MHz; RX : 1930.2 - 1989.8 MHz Number of Channels UMTS-FDD Band I TX : 852.4 - 1907.6 MHz; RX : 1932.4 - 1987.6 MHz Numb		
Applicant / ClientFLAT/RM A3, 9/F SILVERCORP INT TOWER 707-713 NATHAN RD MONGKOK, HONGKONG MONGKOK, HONGKONG MONGKOK, HONGKONG MONGKOK, HONGKONG SHENZHEN ZHIKE COMMUNICATION CO., LTD Bdh Floor, B Bldg. Dianzi Fuhua Jidi, Taojindi, Longsheng community, Longthua District, Shenzhen, China Laboratory performing the testsSHENIC Shenzhen (Shenzhen, China) Laboratories Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen, China (Gougong, China Road, Bao'an District, Shenzhen, Guangdong, China mumberTest report reference number14070281-FCC-R3Date EUT receivedJune 03, 2014Standard appliedFCC Part 15.247; 2013, ANSI C63.4: 2009Dates of test (from - to)June 04 to June 27, 2014No of Units :#1Equipment Category :IPROTrade Name :IPROCSIM850 TX : 824.2 ~ 848.8 MHiz; RX : 869.2 ~ 893.8 MHiz (ies)Number of ChannelsCSIM850 TX : 824.2 ~ 848.8 MHiz; RX : 193.2 ~ 198.76 MHiz (ISS)Number of ChannelsIPRONumber of ChannelsCSIM850 TX : 185.2 ~ 109.0 and VT : 185.2 ~ 109.0 and VT : 185.2 ~ 199.8 MHiz; RX : 193.2 ~ 198.6 MHiz (ICST)Number of ChannelsGSM / GRSS (GSM / GRSS / GSM / GPRS: GMSK UMTS-FDD Band TI : 1852.4 ~ 107.6 MHiz; RX : 103.2 ~ 198.6 MHiz (ICST)ModulationBuletooth: 9CCH Buletooth: 9CCH Buletooth: 9CCHModulationGSM / GPRS: GMSK BLE; 402.11b/gin: 11CH BLE; 40CHBLE 40CH BULETONBLE; 40CHBULEY OF DB Buletooth: 9CPSK # 74DQPSK&8DPSK BLE; 6FSKGPRS Multi-slot classS410/12	Purpose	Compliance testing of Smart Mobile Phone with stipulated standard
MONGKOK, HONGKOK, Manufacturer SHENZHENZHIKE COMMUNICATION CO., LTD SHENZHENZHIKE COMMUNICATION CO., LTD Sthe Floor, B Bldg, Dianz Jehua Jidi, Longsheng community, Longhun District, Shenzhen, China Laboratory performing the tests SEMIC Shenzhen, China, Jaboratories Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong, China Test report reference number Idot 2000 Park Date EUT received June 03, 2014 Standard applied FCC Part 15.247: 2013, ANSI C63.4: 2009 Dates of test (from - to) June 04 to June 27, 2014 No of Units : #1 Equipment Category : PRC Trade Name : PRO CSIM850 TX : 824.2 ~ 848.8 MHiz; RX : 869.2 ~ 893.8 MHiz (fes) WIT: 850.2 ~ 1909.8 MHiz; RX : 1932.4 ~ 198.8 MHiz (Hiz) Number of Channels QSIM850 TX : 824.2 ~ 846.6 MHiz; RX : 1932.4 ~ 198.6 MHiz (Hiz) Mit: 1852.4 ~ 190.7 MHiz; RX : 1932.4 ~ 198.6 MHiz (Hiz) Number of Channels GSIM850 TX : 1850.2 ~ 190.8 MHiz; RX : 1932.4 ~ 198.6 MHiz (Buetoothe, BLE: 2402.2480 MHiz (Buetoothe, PCDI Band]] TX : 1852.4 ~ 107.6 MHiz; RX : 1932.4 ~ 198.6 MHiz (Blietoothe, BLE: 2402.2480 MHi		
ManufacturerSHENZHENZHENZHEN ZHIKE COMMUNICATION CO., LTD 8th Floor, B Bidg. Dianzi Fuhua Jidi, Taojindi, Longsheng community, Longhua District, Shenzhen, China) Laboratory performing the testsSHEMIC Shenzhen (Shenzhen - China) Laboratories Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-0755-2601 4292 / 2601 4935 Size - 14070281-FCC-R3 numberTest report reference number14070281-FCC-R3Date EUT receivedJune 03, 2014Standard appliedFCC Part 15.247: 2013, ANSI C63.4: 2009Dates of test (from - to)June 04No of Units :#1Equipment Category :DTSTrade Name :IPROGSM850 TX : 824.2 - 848.8 MHz; RX : 869.2 - 893.8 MHz UMTS-FDD Band VTX : 826.4 - 846.6 MHz; RX : 1930.2 - 1989.8 MHz Bluetooth: 811.4 - 491.6 MHz Bluetooth: 811.2 - 2402-448 MHz Bluetooth: 811.2 - 2402-448 MHz Bluetooth: 811.2 - 2402-448 MHz Bluetooth: 79CH Bluetooth: 79CH Bluetooth: 79CH Bluetooth: 79CH Bluetooth: 79CH Bluetooth: 6FSK& π/4DQPSK&80PSK Bluetooth: GFSK& π/4DQPSK&80PSK BLE; GFSK	Applicant / Client	
Manufacturer8th Floor, B Bidg. Dianzi Fuhua Jidi, Taojindi, Longsheng community, Longhua District, Shenzhen, China) LaboratoriesLaboratory performing the testsSIEMIC Shenzhen (Shenzhen, China) LaboratoriesLaboratory performing the testsSIEMIC Shenzhen (Shenzhen, Guangdong, China Tei: +86-0755-2601 4629 / 2601 4953 Fax: +86-0755-2601 4953 - Fax: +86-0755 - 2601 4953 - Fax: +86-075 - 2014 400 - Fax: +82-0 - 848.8 MHz; RX: +80-2 - 893.8 MHzNo of Units :Frade Name :GSM850 TX: 824.2 - 848.8 MHz; RX: +80-2 - 893.8 MHzPCS1900 TX: +826.4 - 846.6 MHz; RX: +81.4 - 891.6 MHzRF Operating Frequency (is)UMTS-FDD Band UTX: +826.4 - 466.6 MHz; RX: +1932.4 - 1987.6 MHzNumber of Channels-Number of Channels-Number of Channels-Buetooth: Bluetooth: GFNK # 74DQ PNK & 802.11b/g/m: 11CHBluetooth: GFNK # 74DQ PNK & B02.11b/g/m: 11		
Laboratory performing the testsLonghua District, Shenzhen, China SIEMIC Shenzhen (Shenzhen - China) Laboratories Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong, China Tei: +86-0755-2601 4629 / 2601 4953 Fax: +86-0755-2601 4629 / 2601 4953 Fax: +86-0755-2601 4953-810 Email: China@siemic.com.en 14070281-FCC-R3 numberTest report reference number14070281-FCC-R3 June 03, 2014Date EUT receivedJune 03, 2014Standard appliedFCC Part 15.247: 2013, ANSI C63.4: 2009Dates of test (from - to)June 04 to June 27, 2014No of Units :#1Equipment Category :DTSTrade Name :IPROGSMI850 TX : 824.2 - 848.8 MHz; RX : 869.2 - 893.8 MHz PCS1900 TX : 1850.2 - 1909.8 MHz; RX : 1930.2 - 1989.8 MHz (RX : 1930.2 - 1989.8 MHz; UMTS-FDD Band UTX : 826.4 - 846.6 MHz; RX : 1930.2 - 1989.8 MHz (Bes)Number of Channels209CH (PCS1900 TX : 1852.4 - 1987.6 MHz 802.11h/g/n: 2112-2462 MHz Bluetooth: 811: 277CH Bluetoother BLE: 2402-2480 MHz RS : 1932.4 - 1987.6 MHz RS : 209CH (PCS1900 and 124CH (GSMS50) UMTS-FDD Band II TX : 1852.4 - 1987.6 MHz RS : 209CH (PCS1900 and 124CH (GSMS50) UMTS-FDD Band II : 277CH Bluetoother BLE: 2402-2480 MHz RS : 211h/g/n: 2112-2462 MHz RS : 211h/g/n: 2112-2462 MHz RS : 209CH (PCS1900) and 124CH (GSMS50) RSM JUMTS-FDD Band II : 277CH RSU.11h/g/n: 1112-77CH RSU.11h/g/n: 1112-77CH RSU.11h/g/n: 1112-77CH RSU.11h/g/n: 1112-77CH RSU.11h/g/n: 1112-77CH RSU.11h/g/n: 1112-77CH RSU.11h/g/n: 1112-77CH RSU.11h/g/n: 1112-77CH RSU.11h/g/n: 1112-77CH RSU.11h/g/n: 1112-77CH<	Manufaatunan	
SIEMIC Shenzhen (Shenzhen - China) Laboratories Zone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Shenzhen, Ganagdong, China Tel: +86-0755-2601 4029 / 2601 4953 Siger 2014 2014 2014 2014 East - 14070281-FCC-R3 Interference numberTest report reference number14070281-FCC-R3Date EUT receivedJune 03, 2014Standard appliedFCC Part 15.247; 2013, ANSI C63.4: 2009Dates of test (from - to)June 04 to June 27, 2014No of Units :1Equipment Category :DTSTrade Name :IPROCSSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz PCS1900 TX: 1850.2 ~ 109.8 MHz; RX: 1930.2 ~ 109.8 MHz (ies)Number of ChannelsCSSM850 TX: 824.2 ~ 848.8 MHz; RX: 1930.2 ~ 109.8 MHz Butetoothk BLE: 2402-2480 MHz Butetooth; 79CH Band II TX: 1852.4 ~ 1907.6 MHz; RX: 1930.2 ~ 1988.8 MHz BUTS-FDD Band II TX: 1852.4 ~ 1987.6 MHz BUTS-FDD Band II TX: 1852.	Wianulacturer	
Laboratory performing the testsZone A, Floor 1, Building 2, Wan Ye Long Technology Park, South Side of Zhoushi Road, Bao'an District, Sheuzhen, Guangdong, China Baile Sheuzhen, Guangdong, China Tel: +86-0755-2601 4292 / 2601 4293 Fax: +86-0755-2601 4292 / 2601 4293 Fax: +86-0755-2601 4292 / 2601 4293 Fax: +86-0755-2601 4292 / 2601 4293 June 04 2953-810 Land 2014Test report reference number14070281-FCC-R3Date EUT receivedJune 03, 2014Standard appliedFCC Part 15.247; 2013, ANSI C63.4; 2009Dates of test (from - to)June 04 to June 27, 2014No of Units :#1Equipment Category :DTSTrade Name :GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz UMTS-FDD Band VTX: 826.4 ~ 846.6 MHz; RX: 1930.2 ~ 1898.8 MHz UMTS-FDD Band VTX: 826.4 ~ 846.6 MHz; RX: 1930.2 ~ 1898.8 MHz UMTS-FDD Band VTX: 826.4 ~ 846.6 MHz; RX: 1930.2 ~ 1898.8 MHz UMTS-FDD Band VTX: 826.4 ~ 846.6 MHz; RX: 1930.2 ~ 1898.8 MHz UMTS-FDD Band VTX: 826.4 ~ 846.6 MHz; RX: 1930.2 ~ 1898.4 MHz UMTS-FDD Band VTX: 826.4 ~ 846.6 MHz; RX: 1930.2 ~ 1898.4 MHz UMTS-FDD Band VTX: 826.4 ~ 846.6 MHz; RX: 1930.2 ~ 1898.4 MHz UMTS-FDD Band VTX: 826.4 ~ 846.6 MHz; RX: 1930.2 ~ 1898.4 MHz UMTS-FDD Band VTX: 826.4 ~ 846.6 MHz; RX: 1930.2 ~ 1898.4 MHz UMTS-FDD Band VTX: 826.4 ~ 846.6 MHz; RX: 1930.2 ~ 1898.4 MHz UMTS-FDD Band VTX: 826.4 ~ 846.6 MHz; RX: 1930.2 ~ 1898.4 MHz UMTS-FDD Band VTX: 826.4 ~ 846.6 MHz; RX: 1930.2 ~ 1802.4 MHz UMTS-FDD Band VTX: 826.4 ~ 846.6 MHz; RX: 1930.2 ~ 1802.4 MHz UMTS-FDD Band VTX: 820.4 ~ 1802.4 MHz UMTS-FDD Band VT		
Laboratory performing the testsRoad, Bao ¹ an District, Shenzhen, Guangdong, China Tel: +86-0755-2601 4953 / 2601 4953 Fax: +86-0755-2601 4953 / 10953-810 Email: China@siemic.com.enTest report reference number14070281-FCC-R3Date EUT receivedJune 03, 2014Standard appliedFCC Part 15.247: 2013, ANSI C63.4: 2009Dates of test (from - to)June 04 to June 27, 2014No of Units :#1Equipment Category :#1Trade Name :IPROPCS1900 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHzRF Operating Frequency (ies)GSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHzVUMTS-FDD Band II TX : 1850.2 ~ 1090.8 MHz; RX : 1930.2 ~ 1980.8 MHzRF Operating Frequency (ies)UMTS-FDD Band V TX : 826.4 ~ 846.6 MHz; RX : 1932.4 ~ 1987.6 MHz 8 02.11b/g/n: 2412-2462 MHz 8 02.11b/g/n: 2412-2480 MHz 8 02.11b/g/n: 11CH 8 102.11b/g/n: 11CH 8 102.11b/g/n: 11CH 8 102.11b/g/n: 11CH 8 02.11b/g/n: 10CS/OFD 8 02.11b/g/n: 10CS/OFD 8 02.11b/g/n: 05SS/OFDM 8 02.11b/g/n: 05SS/OFDM 8 02.11b/g/n: 05SS/OFDM 8 02.11b/g/n: 10CSK& M20/OPSK&&8DPSK 8 02.11b/g/n: 05SS/OFDM 8 02.11b/g		
Fax: +86-0755-2601 4953-810 Email: China@siemic.com.enTest report reference number14070281-FCC-R3Date EUT receivedJune 03, 2014Standard appliedFCC Part 15.247: 2013, ANSI C63.4: 2009Dates of test (from - to)June 04 to June 27, 2014No of Units :Equipment Category :June 03Trade Name :IPROGSM850 TX : 824.2 ~ 848.8 MHz; RX : 1869.2 ~ 893.8 MHz PCS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz (ies)RF Operating Frequency (ies)UMTS-FDD Band UTX : 826.4 ~ 846.6 MHz; RX : 1930.2 ~ 1989.8 MHz UMTS-FDD Band ITX : 1852.4 ~ 1907.6 MHz; RX : 1930.2 ~ 1989.8 MHz UMTS-FDD Band ITX : 1852.4 ~ 1907.6 MHz; RX : 1932.4 ~ 1987.6 MHz Bluetoothe BLE: 2402.2480 MHz 229CH (PCSD0) and 12 2411 (GSM850) UMTS-FDD Band ITX : 1852.4 ~ 1907.6 MHz; RX : 1932.6 · 1987.6 MHz Bluetooth: 79CH B02.11b/g/n: 2412-2462 MHz Bluetooth: 79CH B02.11b/g/n: 11CH BLE: 40CH BLE: 40CH B02.11b/g/n: 11CH BLE: 40CH BLE: 2402.2480 MHz CSSM / CPRS: GSM / GPRS: GSM / GPRS / GSM / GPRS: GSM / GPRS: GSM / GPRS / GPRS / GPRS / GPRS	Laboratory performing	Road, Bao'an District, Shenzhen, Guangdong, China
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Standard appliedFCC Part 15.247: 2013, ANSI C63.4: 2009Dates of test (from - to)June 04 to June 27, 2014No of Units :Equipment Category :Trade Name :IPRORF Operating Frequency (ies)GSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz PCS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX : 826.4 ~ 846.6 MHz; RX : 1932.4 ~ 1987.6 MHz Bluetooth& BLE: 2402-2480 MHz Bluetooth& BLE: 2402-2480 MHzNumber of ChannelsGSM850 TX : 824.2 ~ 848.8 MHz; RX : 1932.4 ~ 1987.6 MHz Bluetooth& BLE: 2402-2480 MHZ Bluetooth& BLE: 2	-	14070281-FCC-R3
Image: Constraint of the second sec	Date EUT received	June 03, 2014
No of Units :#1Equipment Category :DTSTrade Name :IPROGSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHzRF Operating Frequency (ies)GSM850 TX : 824.2 ~ 848.8 MHz; RX : 1930.2 ~ 1989.8 MHzRF Operating Frequency (ies)UMTS-FDD Band V TX : 826.4 ~ 846.6 MHz; RX : 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX : 826.4 ~ 846.6 MHz; RX : 1932.4 ~ 1987.6 MHz 802.11b/g/n: 2412-2462 MHz Bluetooth& BLE: 2402-2480 MHz Bluetooth& BLE: 2402-2480 MHz Bluetoothe BLE: 2402-2480 MHz Bluetoothe BLE: 2402-2480 MHz Bluetoothe BLE: 2402-2480 MHz Bluetoothe BLE: 2402-2480 MHz Bluetoother GFSK& m/4DQPSK&8DPSK BLE: GFSK BLE: GFSKGRRS Multi-slot class8/10/12	Standard applied	FCC Part 15.247: 2013, ANSI C63.4: 2009
Equipment Category :DTSEquipment Category :DTSTrade Name :IPROTrade Name :GSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHzRF Operating Frequency (ies)CSSM850 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHzUMTS-FDD Band VTX : 826.4 ~ 846.6 MHz; RX : 871.4 ~ 891.6 MHzUMTS-FDD Band II TX :1852.4 ~ 1907.6 MHz; RX : 1932.4 ~ 1987.6 MHzBluetooth& BLE: 2402-2480 MHzBluetooth& BLE: 2402-2480 MHzNumber of ChannelsNumber of ChannelsModulationModulationGSR Multi-slot classGPRS Multi-slot classKIPS Multi-slot class	Dates of test (from – to)	June 04 to June 27, 2014
Trade Name : IPRO Trade Name : GSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz RF Operating Frequency (ies) GSM850 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz RF Operating Frequency (ies) UMTS-FDD Band V TX : 826.4 ~ 846.6 MHz; RX : 1932.4 ~ 1987.6 MHz Number of Channels Bluetooth& BLE: 2402-2480 MHz Number of Channels 299CH (PCS1900) and 124CH (GSM850) UMTS-FDD Band II : TX : 1852.4 ~ 1907.6 MHz; RX : 1922.4 ~ 1987.6 MHz Number of Channels Bluetooth & BLE: 2402-2480 MHz Number of Channels GSM850 Modulation GSM / GPRS: GMSK Modulation GSM / GPRS: GMSK Modulation Bluetooth: GFSK& π/4DQPSK&8DPSK BLE: GFSK 8/10/12	No of Units :	#1
GSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz RF Operating Frequency PCS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz (ies) UMTS-FDD Band V TX : 826.4 ~ 846.6 MHz; RX : 871.4 ~ 891.6 MHz UMTS-FDD Band II TX : 1852.4 ~ 1907.6 MHz; RX : 1932.4 ~ 1987.6 MHz 802.11b/g/n: 2412-2462 MHz Bluetooth& BLE: 2402-2480 MHz 802.11b/g/n: 2412-2462 MHz Number of Channels 299CH (PCS1900) and 124CH (GSM850) Wodulation Bluetooth & BLE: 2402-2480 MHz Modulation Bluetooth & BLE: 2402-2480 MHz Bluetooth & BLE: 2402-2480 MHz 11 277CH Bluetooth & BLE: 2402-2480 MHz Bluetooth & BLE: 2402-2480 MHz CS99CH (PCS1900) and 124CH (GSM850) UMTS-FDD Band II : 277CH Bluetooth & BLE: 40CH 802.11b/g/n: 11CH BLE: 40CH 6SM / GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS/OFDM Bluetooth: GFSK& π/4DQPSK&8DPSK BLE: GFSK GPRS Multi-slot class 8/10/12	Equipment Category :	DTS
RF Operating Frequency (ies) PCS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz WMTS-FDD Band VTX : 826.4 ~ 846.6 MHz; RX : 871.4 ~ 891.6 MHz (ies) UMTS-FDD Band II TX : 1852.4 ~ 1907.6 MHz; RX : 1932.4 ~ 1987.6 MHz 802.11b/g/n: 2412-2462 MHz Bluetooth& BLE: 2402-2480 MHz 299CH (PCS1900) and 124CH (GSM850) UMTS-FDD Band II : 277CH Bluetooth: 79CH 802.11b/g/n: 11CH BLE: 40CH 802.11b/g/n: DSS/OFDM Modulation GPRS Multi-slot class GPRS Multi-slot class	Trade Name :	IPRO
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802.11b/g/n: 2412-2462 MHzBluetooth& BLE: 2402-2480 MHz299CH (PCS1900) and 124CH (GSM850)UMTS-FDD Band V: 102CHNumber of ChannelsBluetooth: 79CHBluetooth: 6FSK& π/4DQPSK&8DPSKBluetooth: 6FSKBluetooth: 8/10/12Bluetooth: 8/10/12		
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Number of ChannelsUMTS-FDD Band V: 102CH UMTS-FDD Band II: 277CH Bluetooth: 79CH 802.11b/g/n: 11CH BLE: 40CHModulationGSM / GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS/OFDM Bluetooth: GFSK& π/4DQPSK&8DPSK BLE: GFSKGPRS Multi-slot class8/10/12		
Number of ChannelsUMTS-FDD Band II: 277CH Bluetooth: 79CH 802.11b/g/n: 11CH BLE: 40CHModulationGSM / GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS/OFDM Bluetooth: GFSK& π/4DQPSK&8DPSK BLE: GFSKGPRS Multi-slot class8/10/12		
Number of ChannelsBluetooth: 79CHBluetooth: 79CH802.11b/g/n: 11CHBLE: 40CHBLE: 40CHGSM / GPRS: GMSKUMTS-FDD: QPSKModulation802.11b/g/n: DSSS/OFDMBluetooth: GFSK& π/4DQPSK&8DPSKBLE: GFSKGPRS Multi-slot class8/10/12		
BLE: 40CH GSM / GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: DSSS/OFDM Bluetooth: GFSK& π/4DQPSK&8DPSK BLE: GFSK GPRS Multi-slot class	Number of Channels	
Modulation GSM / GPRS: GMSK Modulation 802.11b/g/n: DSSS/OFDM Bluetooth: GFSK& π/4DQPSK&8DPSK BLE: GFSK GPRS Multi-slot class 8/10/12		
Modulation UMTS-FDD: QPSK Modulation 802.11b/g/n: DSSS/OFDM Bluetooth: GFSK& π/4DQPSK&8DPSK BLE: GFSK GPRS Multi-slot class 8/10/12		
Modulation 802.11b/g/n: DSSS/OFDM Bluetooth: GFSK& π/4DQPSK&8DPSK BLE: GFSK GPRS Multi-slot class		
Bluetooth: GFSK& π/4DQPSK&8DPSK BLE: GFSK GPRS Multi-slot class 8/10/12	Modulation	
GPRS Multi-slot class BLE: GFSK		
GPRS Multi-slot class 8/10/12		-
FCC ID PQ4IPROGLORYI	GPRS Multi-slot class	
	FCC ID	PQ4IPROGLORYI



SIEMIC, INC. Accessing global markets Title: RF Test Report for Smart Mobile Phone Main Model: GLORY I Serial Model: N/A To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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3 MODIFICATION

NONE



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TEST SUMMARY 4

The product was tested in accordance with the following specifications. All testing has been performed according to below product classification:

Test Results Summary

FCC Rules	Description of Test	Result
§15.247 (i), §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.247 (a)(2)	DTS (6 dB&20 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247(d)	Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands	Compliance

5 <u>MEASUREMENTS, EXAMINATION AND DERIVED</u> <u>RESULTS</u>

5.1 §15.247 (i) and §2.1093 – RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)].

 $[\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ where

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

Two antennas are available for the EUT (GSM antenna, Bluetooth/WIFI/BLE antenna). The maximum average output power(turn-up power) in low channel of WIFI is 9.05 dBm= 8.04 mW The calculation results= $8.04/5 * \sqrt{2.412} = 2.50 < 3$

The maximum average output power(turn-up power) in middle channel of WIFI is 9.0 dBm= 7.94 mW The calculation results= $7.94/5 * \sqrt{2.437} = 2.48 < 3$

The maximum average output power(turn-up power) in high channel of WIFI is 9.07dBm= 8.07 mW The calculation results= $8.07/5 * \sqrt{2.462} = 2.53 < 3$

According to KDB 447498, no stand-alone required for WIFI antenna, and no simultaneous SAR measurement is required , please refer to SAR report.

Test Result: Pass

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5.2 §15.203 - ANTENNA REQUIREMENT

Applicable Standard

To:

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria: Antenna must be permanently attached to the unit. a.

Antenna must use a unique type of connector to attach to the EUT. b.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 2 antennas: a PIFA antenna for WIFI/Bluetooth/BLE, the gain is 0 dBi for WIFI/ Bluetooth/ BLE.

a PIFA antenna for GSM and UMTS, the gain is0.5 dBi for GSM850/ PCS1900 and 1 dBi for UMTS-FDD Band V/ UMTS-FDD Band II.

which in accordance to section 15.203, please refer to the internal photos.

Test Result: Pass

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5.3 §15.247(a) (2) – DTS (6 dB&20 dB) CHANNEL BANDWIDTH

1.	<u>Conducted Measurement</u> EUT was set for low, mid, high The spectrum analyzer was conr	channel with modulated mode and	highest RF output power.		
2.	Environmental Conditions	Temperature	23°C		
		Relative Humidity	56%		
		Atmospheric Pressure	1012mbar		
3.	Conducted Emissions Measurem	ent Uncertainty			
	All test measurements carried ou	it are traceable to national standard	ls. The uncertainty of the measurement at		
	a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor				
	of 2, in the range $30MHz - 40GH$	Hz is ± 1.5 dB.	·		

Tested By : Wiky Jam **Requirement(s):** The minimum 6 dB bandwidth of a DTS transmission shall be at least 500 kHz. Within this document, this bandwidth is referred to as the DTS bandwidth. The procedures provided herein for measuring the maximum peak

conducted output power assume the use of the DTS bandwidth.

Procedures:

4.

6dB bandwidth

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times RBW$.

Test date : June 11, 2014

- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

To:

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

20dB bandwidth

C63.10

Occupied Bandwidth (OBW=20dB bandwidth)

- 1. Set RBW = 1%-5% OBW.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Set the span range between 2 times and 5 times of the OBW.
- 4. Sweep time=Auto, Detector=PK, Trace=Max hold.
- 5. Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst-case (i.e., the widest) bandwidth. Unless otherwise specified for an unlicensed wireless device, measure the bandwidth at the -20 dB levels with respect to the reference level.

Test Result: Pass.

Please refer to the following tables and plots.

Note: B: 802.11b G: 802.11g N20: 802.11n

1: Low Channel 6: Middle Channel 11: High Channel



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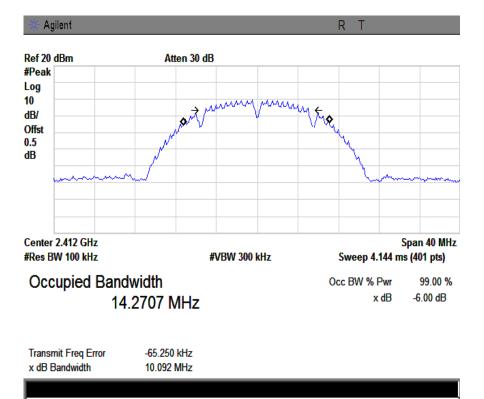
6dB& 20dB bandwidth:

Channel	Channel Frequency (MHz)	Data Rate (Mbps)	Measured 6dB Bandwidth (MHz)	Measured 20dB Bandwidth (MHz)	FCC Part 15.247 Limit (kHz)
			802.11b mode		
Low	2412	1	10.092	16.709	>500
Middle	2437	1	10.093	16.731	>500
High	2462	1	10.116	16.740	>500
	802.11g mode				
Low	2412	6	16.471	19.313	>500
Middle	2437	6	16.464	19.20	>500
High	2462	6	16.481	19.455	>500
	802.11n(20M) mode				
Low	2412	MCS0	17.705	19.599	>500
Middle	2437	MCS0	17.702	19.676	>500
High	2462	MCS0	17.706	19.735	>500

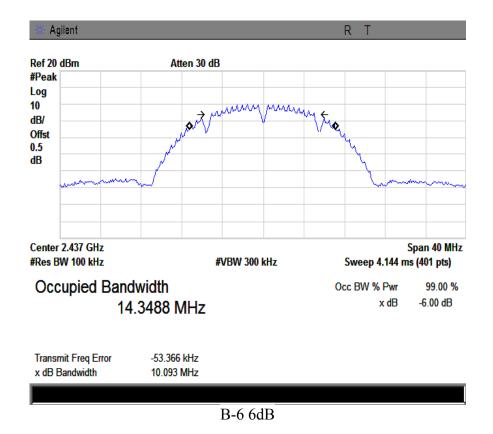


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The 6dB bandwidth:



B-1 6dB





 Accessing global marines

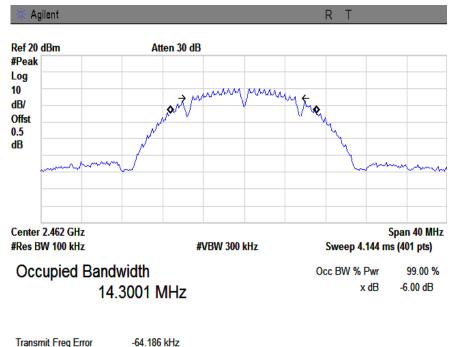
 Title:
 RF Test Report for Smart Mobile Phone

 Main Model:
 GLORY I

 Serial Model:
 N/A

 To:
 FCC Part 15.247: 2013, ANSI C63.4: 2009

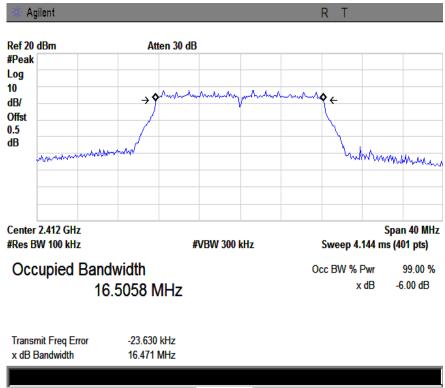
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Transmit Freq Error x dB Bandwidth

10.116 MHz

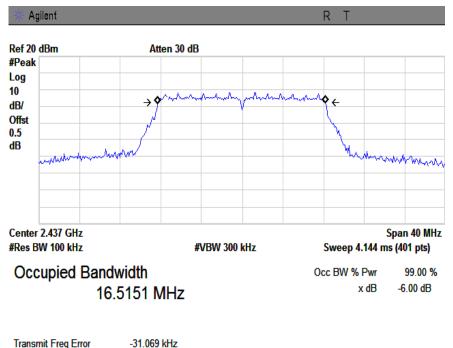
B-11 6dB







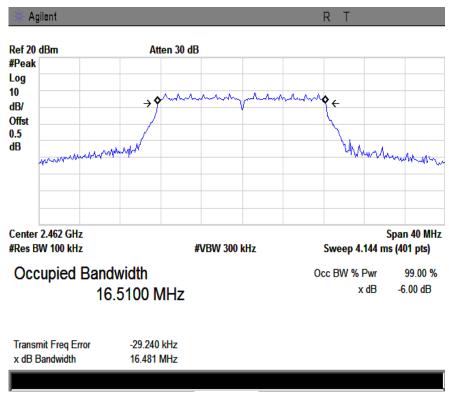
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Transmit Freq Error x dB Bandwidth

16.464 MHz

G-6 6dB

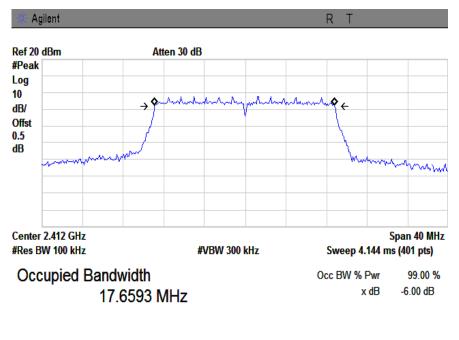


G-11 6dB



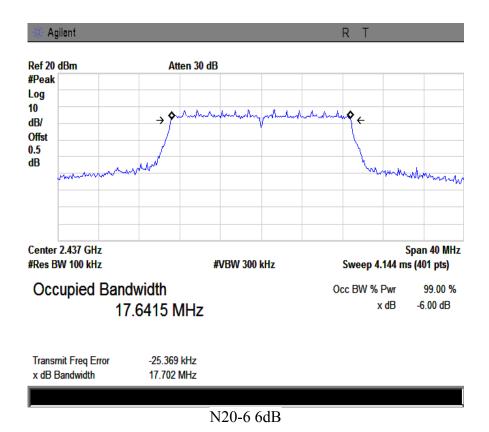


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Transmit Freq Error x dB Bandwidth -20.595 kHz 17.705 MHz

N20-1 6dB





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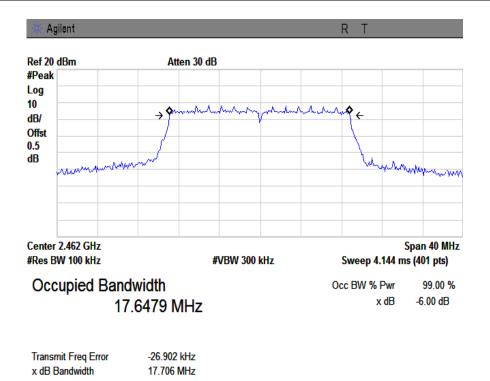
 Title:
 RF Test Report for Smart Mobile Phone

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 Serial Model:
 N/A

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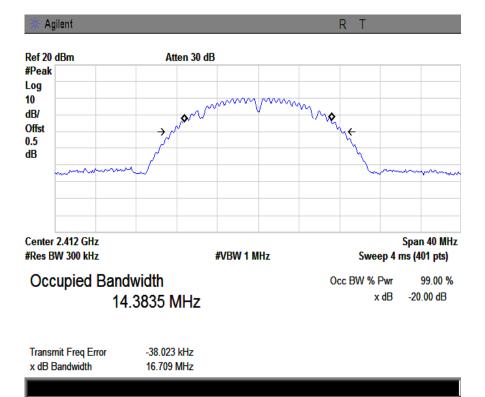


N20-11 6dB

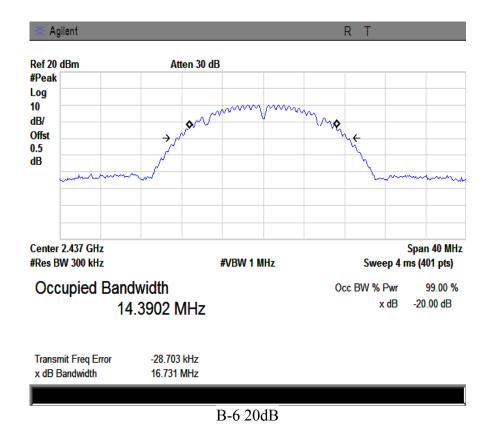


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The 20dB bandwidth:



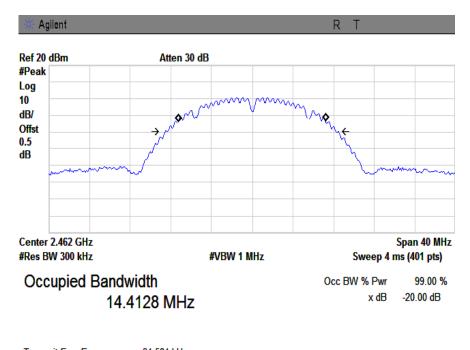
B-1 20dB





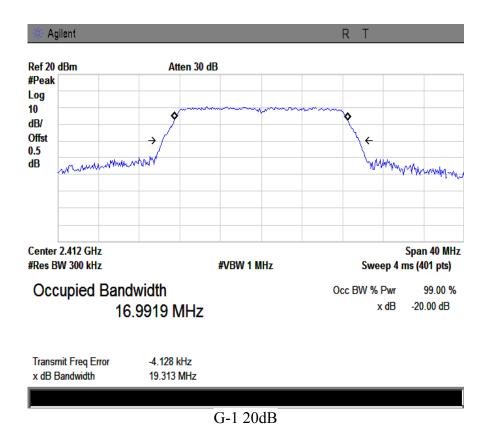


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Transmit Freq Error-34.584 kHzx dB Bandwidth16.740 MHz

B-11 20dB





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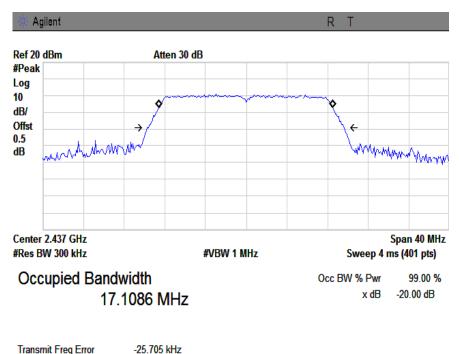
 Title:
 RF Test Report for Smart Mobile Phone

 Main Model:
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 Serial Model:
 N/A

 To:
 FCC Part 15.247: 2013, ANSI C63.4: 2009

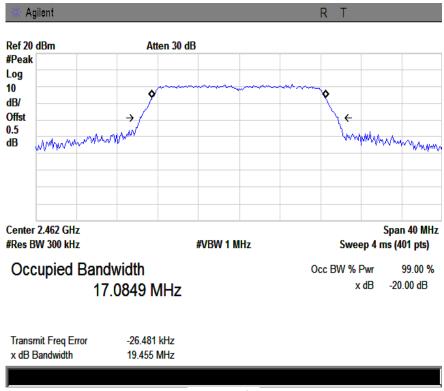
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Transmit Freq Error x dB Bandwidth

19.200 MHz

G-6 20dB



G-11 20dB



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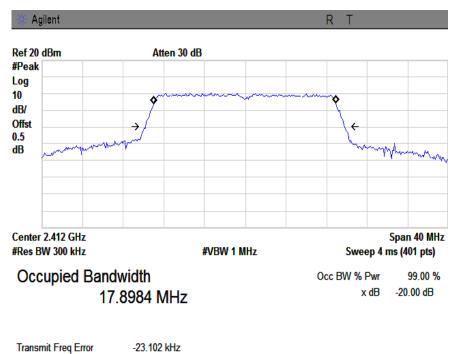
 Title:
 RF Test Report for Smart Mobile Phone

 Main Model:
 GLORY I

 Serial Model:
 N/A

 To:
 FCC Part 15.247: 2013, ANSI C63.4: 2009

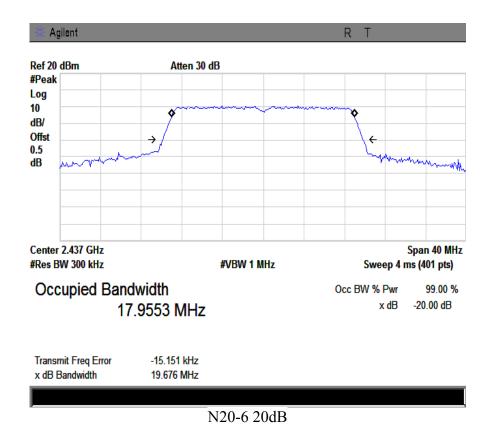
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ransmit Freq Error x dB Bandwidth

N20-1 20dB

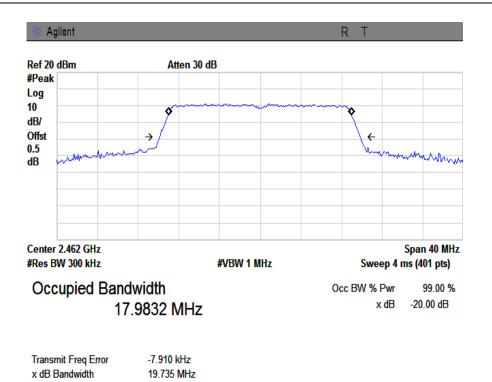
19.599 MHz







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N20-11 20dB

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58%

1016mbar

5.4 §15.247(b) (3) - Conducted Maximum Output Power

1. Conducted Measurement

To:

EUT was set for low, mid, high channel with modulated mode and highest RF output power. The spectrum analyzer was connected to the antenna terminal.

2. Conducted Emissions Measurement Uncertainty All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 40GHz is $\pm 1.5dB$. 24°C

Environmental Conditions 3. Temperature **Relative Humidity** Atmospheric Pressure 4. Test date : June 12, 2014 Tested By : Wiky Jam

Standard Requirement:

Maximum Peak Conducted Output Power

The following procedures can be used to determine the maximum peak conducted output power of a DTS EUT.

Maximum Conducted Output Power

§15.247(b)(3) permits the maximum (average) conducted output power to be measured as an alternative to the maximum peak conducted output power for demonstrating compliance to the limit. When these procedures are utilized, the power is referenced to the emission bandwidth (EBW) rather than the DTS bandwidth (see Section 2.0 for definitions).

When using a spectrum/signal analyzer to perform these measurements, it must be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW in order to ensure bin-to-bin spacing of \leq RBW/2 so that narrowband signals are not lost between frequency bins.

The ideal method for measuring the maximum (average) conducted output power is with the EUT is configured to transmit continuously (duty cycle \geq 98%) at its maximum power control level. However, when this condition cannot be realized, video triggering or signal gating can be used to ensure that the measurements are performed only during periods when the EUT is transmitting at its maximum power control level. An option is also provided that can be used when none of the above requirements can be met with the available measurement instrumentation.

Procedures:

Measurement Procedure AVG:

a) Set span to at least 1.5 times the OBW.

b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

c) Set VBW $\geq 3 \times RBW$.

d) Number of points in sweep $\ge 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\le \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)

e) Sweep time = auto.

f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire

duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty

cycle \ge 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

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Test Result: Pass.

Please refer to the following tables and plots.

Note:

B: 802.11b G: 802.11g N: 802.11n

1: Low Channel

6: Middle Channel

11: High Channel

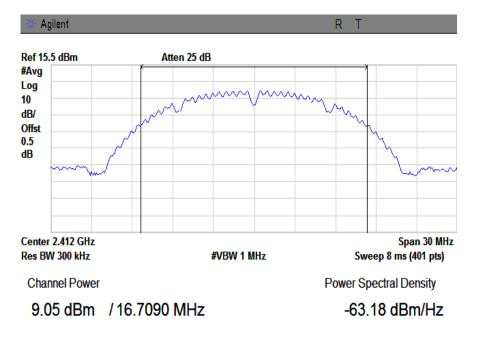
The <u>Average Power</u>

Channel	Channel Frequency (MHz)	Data Rate (Mbps)	AV Output Power (dBm)	Limit (dBm)
		802.1	1b mode	
Low	2412	1	9.05	30
Middle	2437	1	9.00	30
High	2462	1	9.07	30
	802.11g mode			
Low	2412	6	8.56	30
Middle	2437	6	8.21	30
High	2462	6	8.54	30
	802.11n mode			
Low	2412	MCS0 (20M)	8.22	30
Middle	2437	MCS0 (20M)	8.32	30
High	2462	MCS0 (20M)	8.41	30

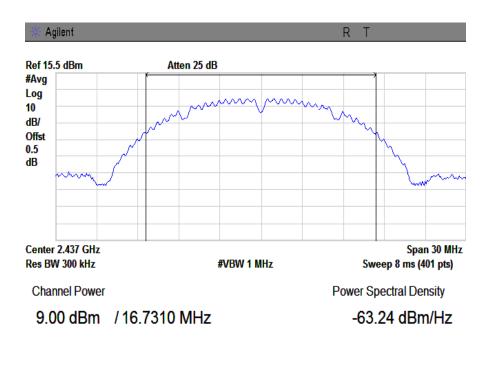


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The Average Power



B-1 AV

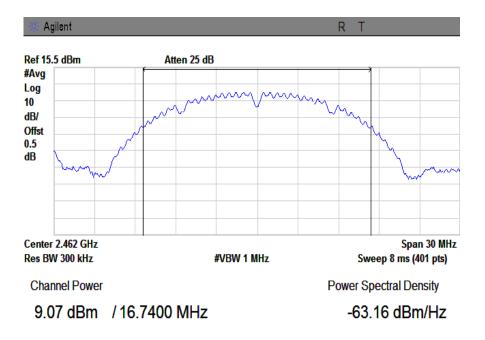


B-6 AV

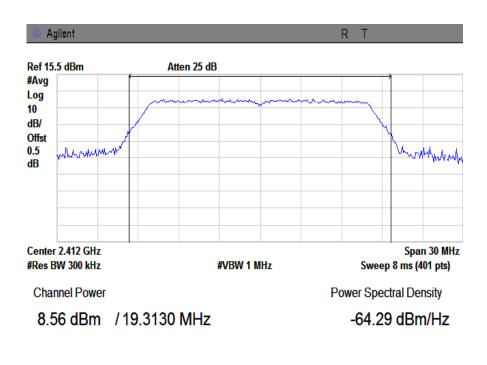




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B-11 AV

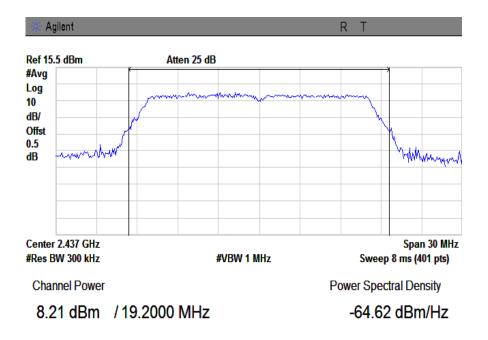


G-1 AV

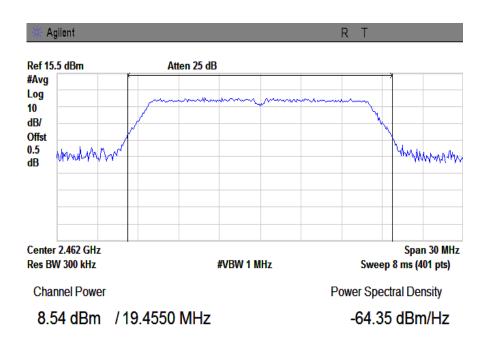




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G-6 AV

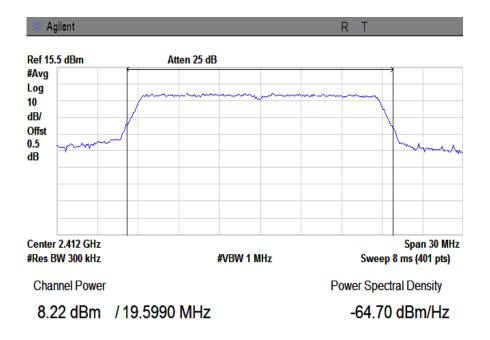


G-11 AV

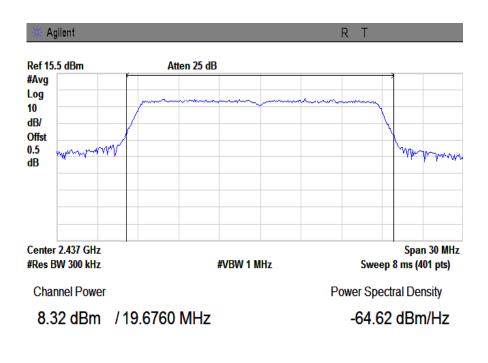




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N20-1 AV

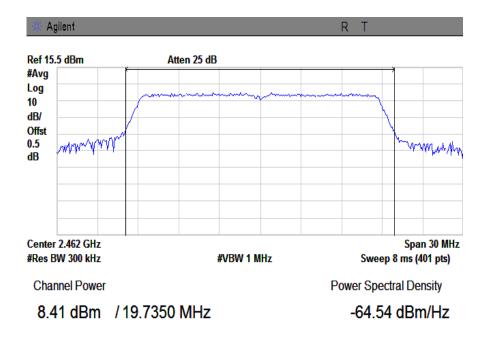


N20-6 AV





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N20-11 AV

SIEMIC, INC. Accessing global markets RF Test Report for Smart Mobile Phone Title: Main Model: GLORY I Serial Model: N/A FCC Part 15.247: 2013, ANSI C63.4: 2009

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5.5 §15.247(e) - Power Spectral Density

1.	Conducted Measurement			
	EUT was set for low, mid, high channel with modulated mode and highest RF output power.			
	The spectrum analyzer was conne	ected to the antenna terminal.		
2.	Environmental Conditions	Temperature	23°C	
		Relative Humidity	56%	
		Atmospheric Pressure	1015mbar	
3.	Conducted Emissions Measurem	ent Uncertainty		
	All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor			

idence level of approx alery 9570 of 2, in the range 30MHz - 40GHz is $\pm 1.5dB$.

4. Test date : June 16, 2014

To:

Tested By : Wiky Jam

Requirement(s):

A conducted power spectral density (PSD) limit of 8 dBm in any 3 kHz band segment within the DTS bandwidth is specified during any time interval of continuous transmission.4 By rule, the same method as used to determine the conducted output power shall be used to determine the power spectral density (i.e., if maximum peak conducted output power was measured then the peak PSD procedure shall be used and if maximum conducted output power was measured then the average PSD procedure shall be used).

If the average PSD is measured with a power averaging (RMS) detector or a sample detector, then the spectrum analyzer must be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW in order to ensure bin-to-bin spacing of \leq RBW/2 so that narrowband signals are not lost between frequency bins.

Procedures:

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \times RBW$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- i) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Result: Pass.

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Please refer to the following tables and plots.

Channel	Frequency (MHz)	Data Rate	PSD (dBm)	Limit (dBm)
		802.11b mo	de	
Low	2412	1	-2.825	8
Middle	2437	1	-4.175	8
High	2462	1	-3.960	8
		802.11g mo	de	
Low	2412	6	-6.929	8
Middle	2437	6	-7.064	8
High	2462	6	-6.427	8
802.11n mode				
Low	2412	MCS0	-7.289	8
Middle	2437	MCS0	-6.4255	8
High	2462	MCS0	-6.075	8

Note:

B: 802.11b G: 802.11g N20: 802.11n

1: Low Channel

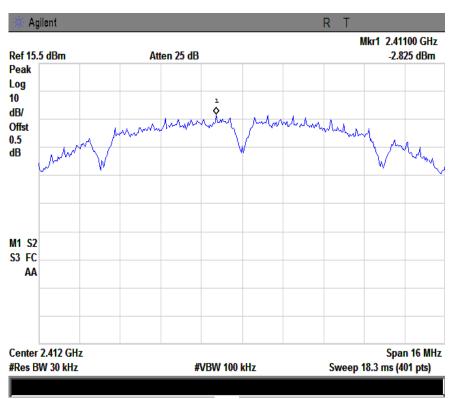
6: Middle Channel

11: High Channel

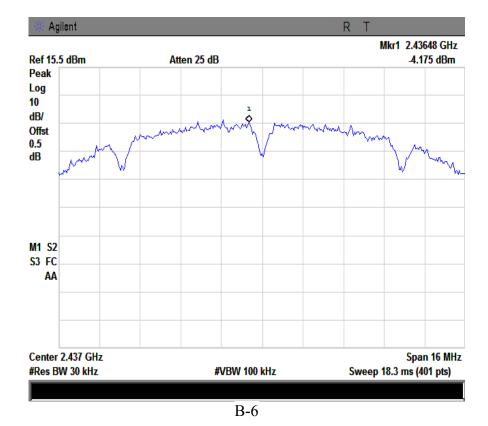




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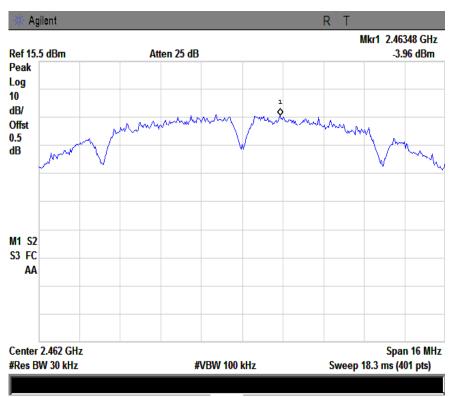
B-1



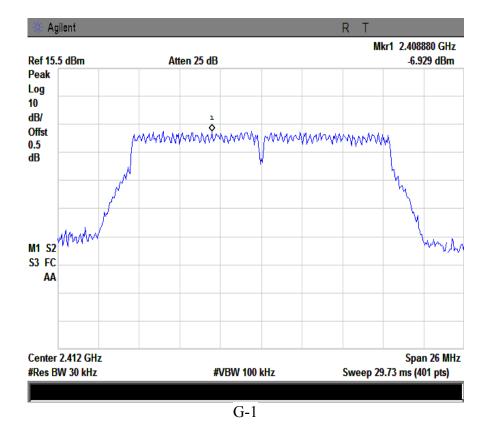




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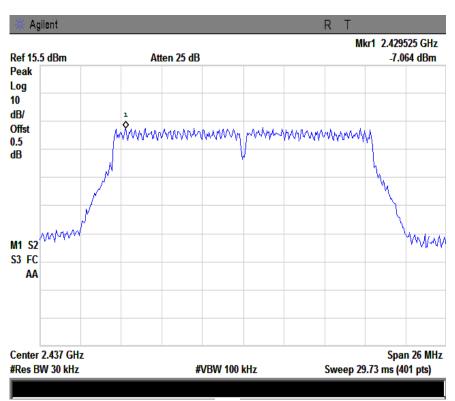
B-11



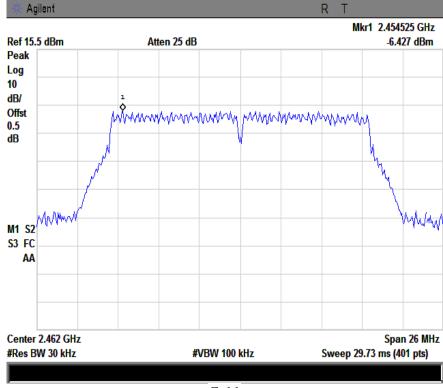




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G-6

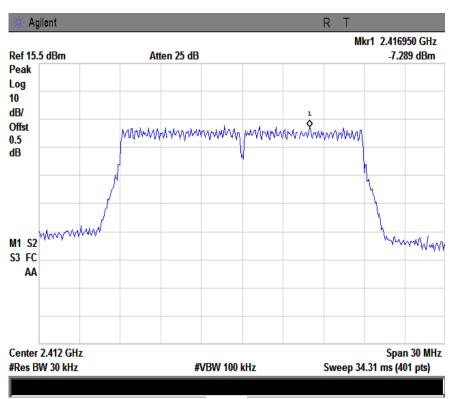




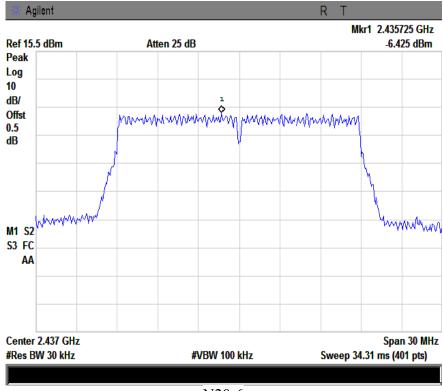




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N20-1

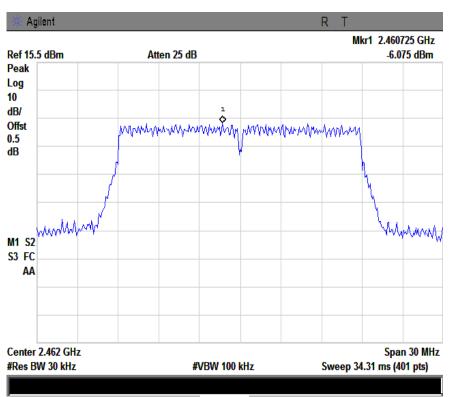


N20-6





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N20-11

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5.6 <u>§15.247(d)</u> –Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands

1. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

2.	Environmental Conditions	Temperature	25°C
		Relative Humidity	54%
		Atmospheric Pressure	1018mbar
3.	Test date : June 26, 2014	-	
	Tested By : Wiky Jam		

Requirement(s):

Band-Edge Measurements

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

Procedures: (Radiated Method Only)

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT, if pass then set Spectrum Analyzer as below:

a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.

b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.

c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth for Average detection (AV) as below at frequency above 1GHz.

 \Box 1 kHz (Duty cycle < 98%)

- 10 Hz (Duty cycle > 98%)
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

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Note:

For Hopping device, should test hopping mode and CW Tx mode separately. For hopping mode, find out the worst points outside the frequency band firstly, then set the worst points as the center frequency, use above average 3 (c) spectrum analyzer set, find out the final worst average value separately.

Test Result: Pass.

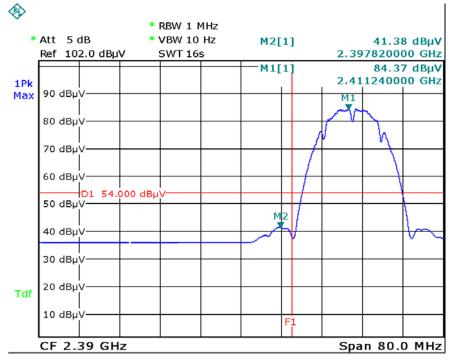
Please refer to the following tables and plots.

Note: B: 802.11b G: 802.11g N: 802.11n

1: Left Side 11: Right Side

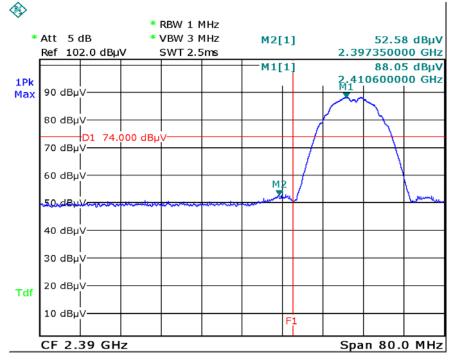


Accessing global marines Title: RF Test Report for Smart Mobile Phone Main Model: GLORY I Serial Model: N/A To: FCC Part 15.247: 2013, ANSI C63.4: 2009 Report No.: 14070281-FCC-R3 Issue Date: July 04, 2014 Page: 39 of 73 www.siemic.com www.siemic.com.cn



Date: 27.JUN.2014 15:26:49

B-1 AV

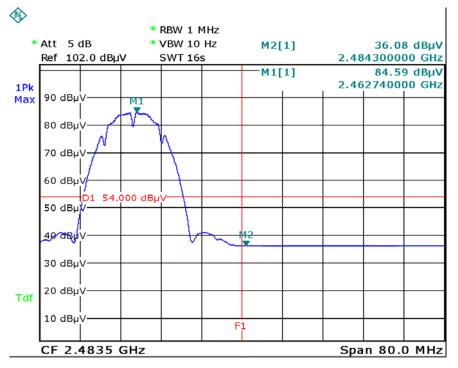


Date: 27.JUN.2014 15:24:30



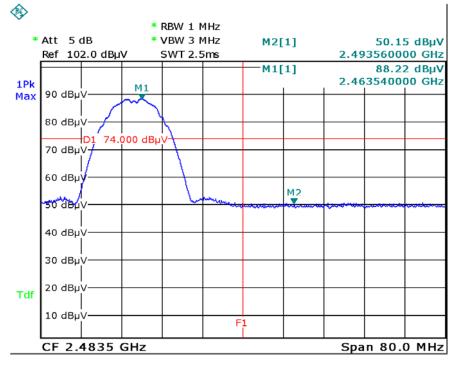


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Date: 27.JUN.2014 16:04:27

B-11 AV

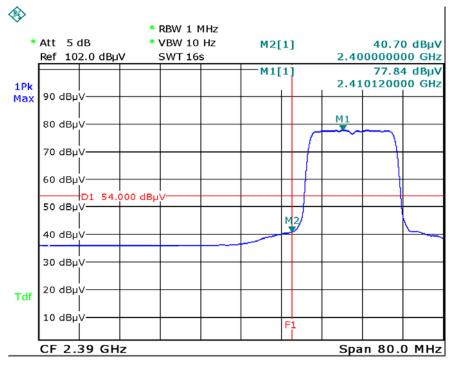


Date: 27.JUN.2014 16:03:12

B-11 PK

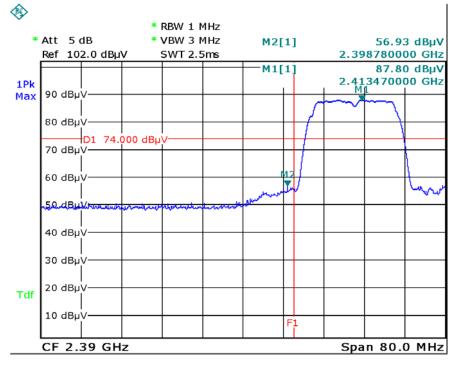


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Date: 27.JUN.2014 15:31:58

G-1 AV

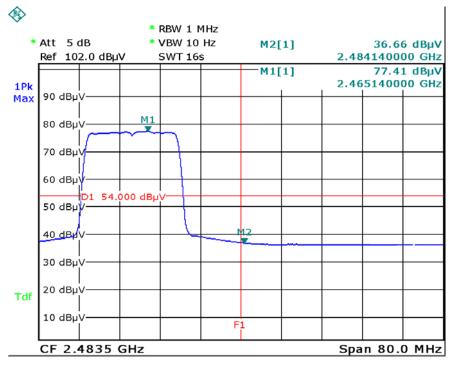


Date: 27.JUN.2014 15:30:02

G-1 PK

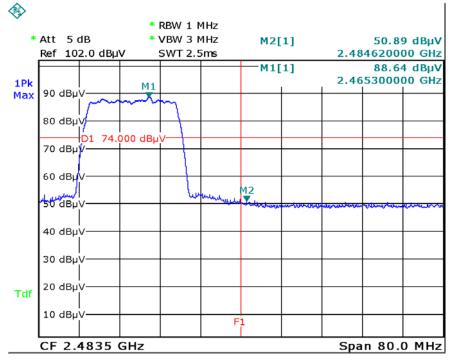


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Date: 27.JUN.2014 15:57:00

G-11 AV

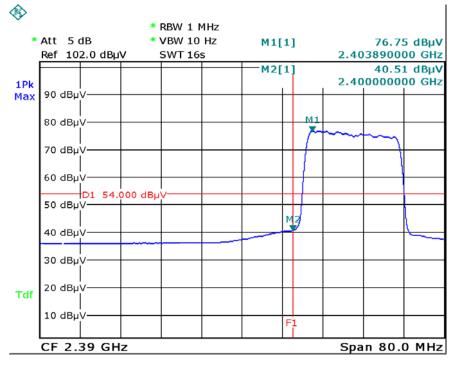


Date: 27.JUN.2014 15:55:14



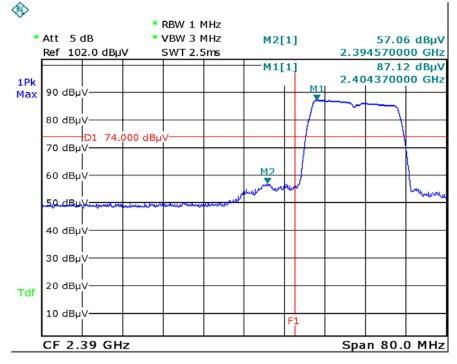


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Date: 27.JUN.2014 15:41:34

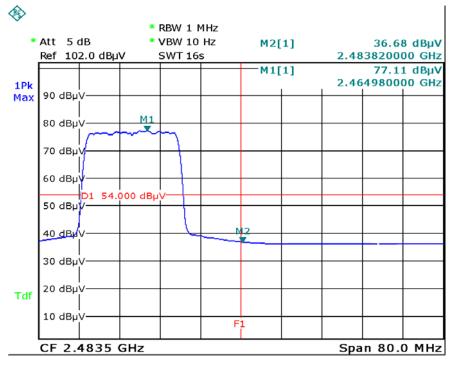
N-1 AV



Date: 27.JUN.2014 15:39:34

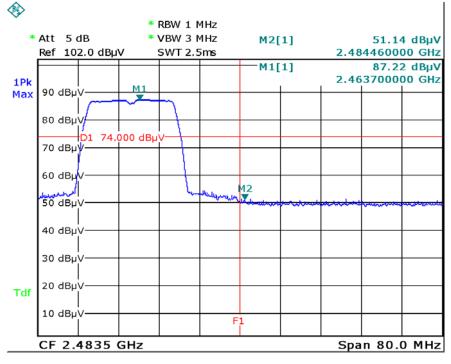


Accessing global marints Title: RF Test Report for Smart Mobile Phone Main Model: GLORY I Serial Model: N/A To: FCC Part 15.247: 2013, ANSI C63.4: 2009 Report No.: 14070281-FCC-R3 Issue Date: July 04, 2014 Page: 44 of 73 www.siemic.com www.siemic.com.cn



Date: 27.JUN.2014 15:51:27

N-11 AV



Date: 27.JUN.2014 15:49:49



5.7 §15.207 (a) - AC Power Line Conducted Emissions

Requirement:

	Conducted lin	nit (dBµV)
Frequency of emission (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.

Procedures:

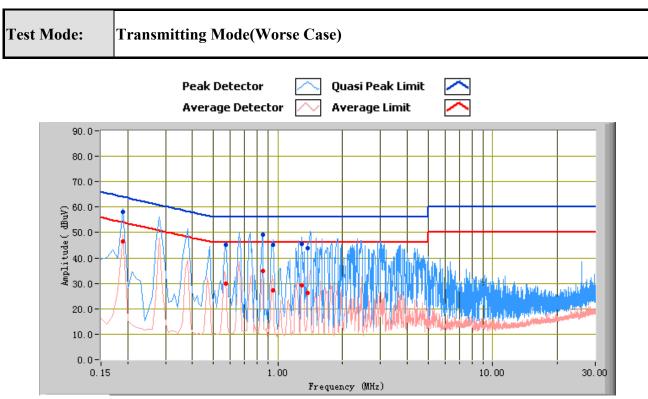
- 1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
- 2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
- <u>Conducted Emissions Measurement Uncertainty</u> All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is ±3.5dB.
 Environmental Conditions Temperature 23°C

4.	Environmental Conditions	Temperature	23°C
		Relative Humidity	56%
		Atmospheric Pressure	1018mbar
5.	Test date: June 04, 2014	-	

Tested By : Wiky Jam



Accessing gitted markets Title: RF Test Report for Smart Mobile Phone Main Model: GLORY I Serial Model: N/A To: FCC Part 15.247: 2013, ANSI C63.4: 2009



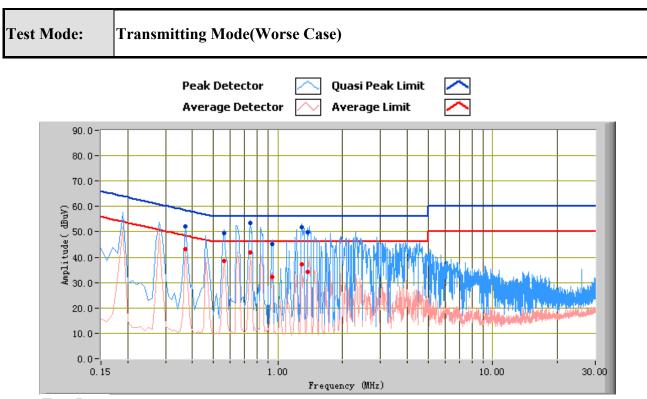
Test Data

Phase Line Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)		
0.19	58.00	64.04	-6.04	46.36	54.04	-7.68	12.21		
0.85	49.05	56.00	-6.95	34.84	46.00	-11.16	10.37		
1.29	45.44	56.00	-10.56	29.20	46.00	-16.80	10.31		
0.95	45.09	56.00	-10.91	27.30	46.00	-18.70	10.32		
0.57	45.12	56.00	-10.88	29.99	46.00	-16.01	10.52		
1.38	43.97	56.00	-12.03	26.37	46.00	-19.63	10.33		



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Test Data

Phase Neutral Plot at 120Vac, 60Hz

Frequency (MHz)	Quasi Peak (dBuV)	Limit (dBuV)	Margin (dB)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Factors (dB)
0.74	53.38	56.00	-2.62	41.87	46.00	-4.13	10.43
1.29	51.71	56.00	-4.29	37.10	46.00	-8.90	10.31
1.38	49.69	56.00	-6.31	34.20	46.00	-11.80	10.33
0.56	49.33	56.00	-6.67	38.58	46.00	-7.42	10.53
0.37	52.12	58.50	-6.38	43.28	48.50	-5.22	11.13
0.94	45.24	56.00	-10.76	32.19	46.00	-13.81	10.33

Title:

To:

Accessing global markets RF Test Report for Smart Mobile Phone Main Model: GLORY I Serial Model: N/A FCC Part 15.247: 2013, ANSI C63.4: 2009

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5.8 §15.209, §15.205 & §15.247(d) - Radiated Spurious Emissions & **Unwanted Emissions into Restricted Frequency Bands**

- 1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
- 2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
- 3. Radiated Emissions Measurement Uncertainty All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 1GHz & 1GHz above (3m & 10m) is +/-6dB. Environmental Conditions 4. Temperature 23°C

Relative Humidity Atmospheric Pressure 56% 1018mbar

5. Test date : June 04, 2014 Tested By : Wiky Jam

Requirement:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Procedures:

1. The EUT was switched on and allowed to warm up to its normal operating condition.

2. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:

a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.

b. The EUT was then rotated to the direction that gave the maximum emission.

c. Finally, the antenna height was adjusted to the height that gave the maximum emission.

3. A Quasi-peak measurement was then made for that frequency point for below 1GHz test, PK and AV for above 1GHz emission test.

- a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
- b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth for Average detection (AV) as below at frequency above 1GHz.

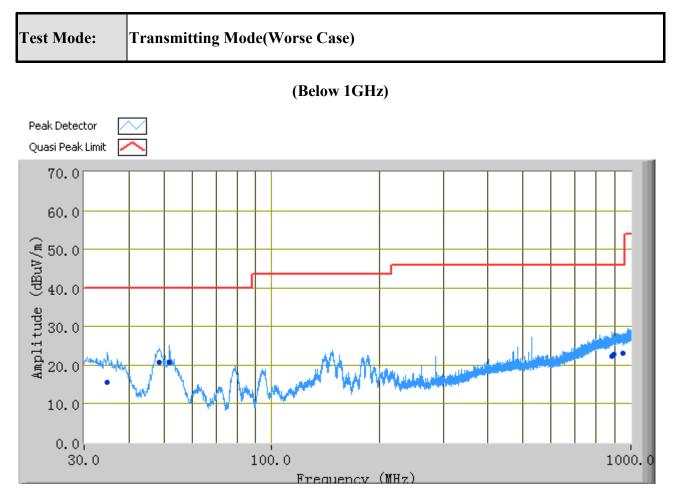


 \Box 1 kHz (Duty cycle < 98%)

■ 10 Hz (Duty cycle > 98%)

4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.

Test Result: Pass



Test Data

Vertical & Horizontal Polarity Plot @3m

vertical & Horizontar Folarity Flot Wom							
Frequency (MHz)	Quasi Peak (dBuV/m)	Azimuth	Polarity(H/ V)	Height (cm)	Factors (dB)	Limit (dBuV)	Margin (dB)
52.03	20.85	0.00	V	104.00	-14.00	40.00	-19.15
48.51	20.75	0.00	V	143.00	-13.25	40.00	-19.25
34.83	15.55	20.00	V	198.00	-4.07	40.00	-24.45
885.26	22.25	324.00	Н	344.00	4.58	46.00	-23.75
951.72	23.17	168.00	Н	378.00	5.58	46.00	-22.83
898.08	22.80	222.00	Н	112.00	4.74	46.00	-23.20

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Above 1 GHz:

Test Mode: Transmitting

Note: Other modes were verified, only the result of worst case basic rate mode was presented.

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4824	38.81	AV	V	34	4.87	26.79	50.89	54	-3.11
4824	39.06	AV	Н	33.8	4.87	26.79	50.94	54	-3.06
4824	47.83	РК	V	34	4.87	26.79	59.91	74	-14.09
4824	46.98	РК	Н	33.8	4.87	26.79	58.86	74	-15.14

Mode: 802.11b

Middle Channel (2437 MHz)

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4874	39.01	AV	V	33.6	4.87	26.78	50.7	54	-3.3
4874	39.11	AV	Н	33.8	4.87	26.78	51	54	-3
4874	48.26	РК	V	33.6	4.87	26.78	59.95	74	-14.05
4874	47.14	РК	Н	33.8	4.87	26.78	59.03	74	-14.97

Frequency (MHz)	S.A. Reading (dBµV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
4924	38.74	AV	V	34.6	4.87	26.75	51.46	54	-2.54
4924	39.16	AV	Н	34.7	4.87	26.75	51.98	54	-2.02
4924	47.76	РК	V	34.6	4.87	26.75	60.48	74	-13.52
4924	46.84	РК	Н	34.7	4.87	26.75	59.66	74	-14.34

High Channel (2462 MHz)



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Annex A. TEST INSTRUMENT & METHOD

TEST INSTRUMENTATION & GENERAL PROCEDURES Annex A.i.

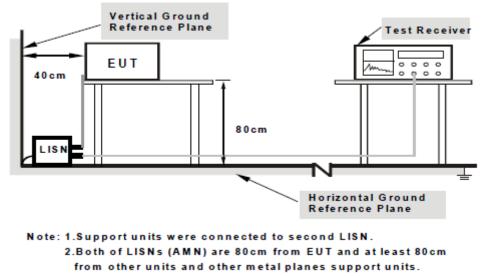
Instrument	Model	Serial #	Calibration Date	Calibration Due Date
AC Line Conducted Emissions				
EMI test receiver	ESCS30	8471241027	05/27/2014	05/26/2015
Line Impedance Stabilization Network	LI-125A	191106	11/14/2013	11/13/2014
Line Impedance Stabilization Network	LI-125A	191107	11/14/2013	11/13/2014
LISN	ISN T800	34373	01/11/2014	01/10/2015
Double Ridge Horn Antenna (1~18GHz)	AH-118	71283	11/20/2013	11/19/2014
Transient Limiter	LIT-153	531118	09/02/2013	09/01/2014
RF conducted test				
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/17/2013	09/16/2014
Power Splitter	1#	1#	09/02/2013	09/01/2014
DC Power Supply	E3640A	MY40004013	09/17/2013	09/16/2014
Wireless Connectivity Test Set	N4010A	GB44440198	03/20/2014	03/19/2015
Radiated Emissions				
EMI test receiver	ESL6	100262	11/23/2013	11/22/2014
Positioning Controller	UC3000	MF780208282	11/19/2013	11/19/2014
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2013	09/01/2014
Microwave Preamplifier (0.5~18GHz)	PAM-118	443008	09/02/2013	09/01/2014
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/23/2013	09/22/2014
Double Ridge Horn Antenna (1~18GHz)	AH-118	71283	11/20/2013	11/19/2014
Universal Radio Communication Tester	CMU200	121393	09/17/2013	09/16/2014

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Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

Test Set-up

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in <u>Annex B</u>.
- 2. The power supply for the EUT was fed through a $50\Omega/50\mu$ H EUT LISN, connected to filtered mains.
- 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
- 4. All other supporting equipments were powered separately from another main supply.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration1.

Test Method

- 1. The EUT was switched on and allowed to warm up to its normal operating condition.
- 2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
- 3. High peaks, relative to the limit line, were then selected.
- 4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
- 5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

Description of Conducted Emission Program

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the common scan range from 150 kHz to 30 MHz; the program will first start a peak and average scan on selectable measurement time and step size. After the program complete the pre-scan, this program will perform the Quasi Peak and Average measurement, based on the pre-scan peak data reduction result.

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Sample Calculation Example

At 20 MHz	$limit = 250 \ \mu V = 47.96 \ dB\mu V$
Transducer factor of LISN, pulse limiter & cable loss at 20 M	Mz = 11.20 dB
Q-P reading obtained directly from EMI Receiver = 40.00 dE (Calif	BμV brated for system losses)
Therefore, Q-P margin = $47.96 - 40.00 = 7.96$	i.e. 7.96 dB below limit



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EUT AND TEST SETUP PHOTOGRAPHS Annex B.



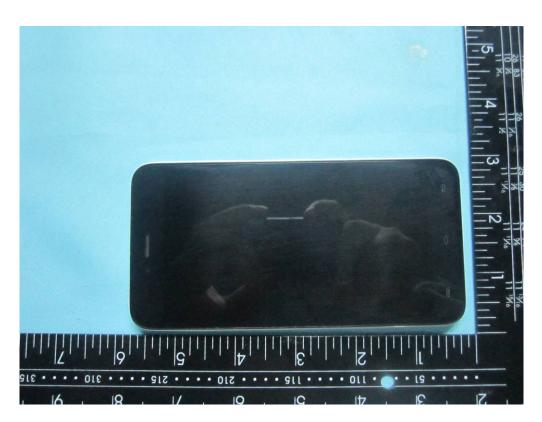
Whole Package - Top View



Adapter - Front View



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EUT - Front View



EUT - Rear View





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EUT - Top View



EUT - Bottom View



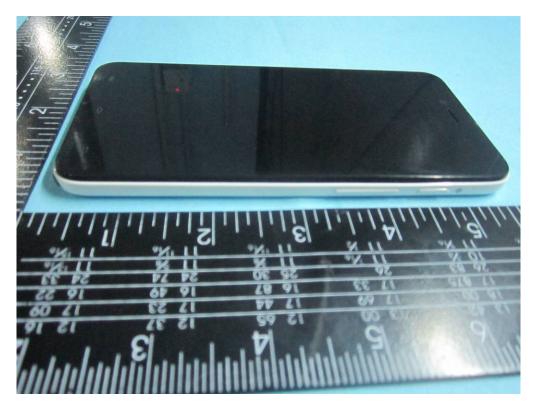


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EUT - Left View



EUT - Right View

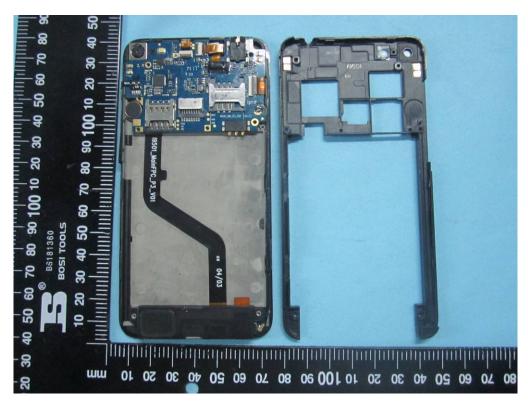
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Annex B.ii **Photograph 2: EUT Internal Photo**



Cover Off - Top View 1



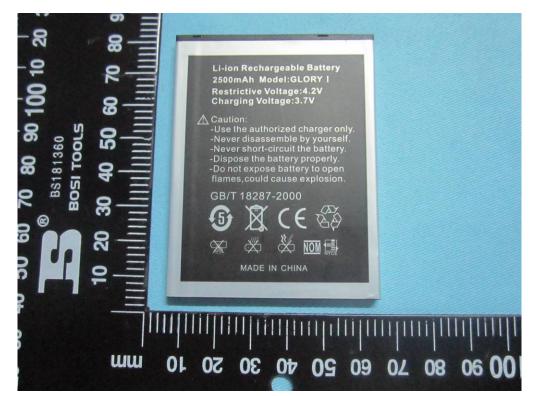
Cover Off - Top View 2



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Battery - Top View



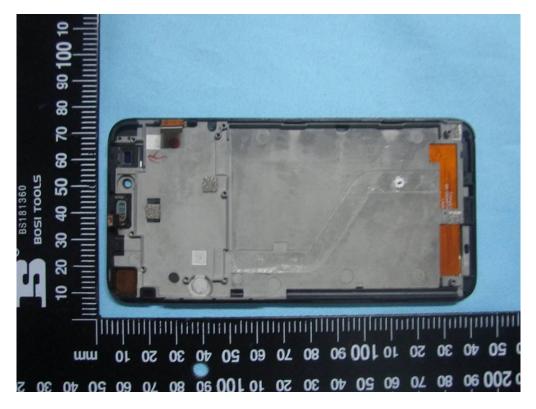
Battery - Bottom View



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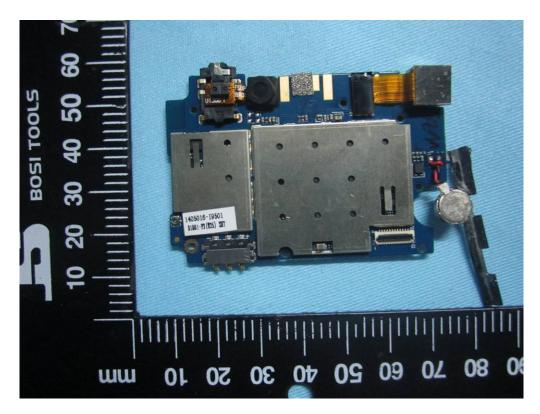
LCD - Front View



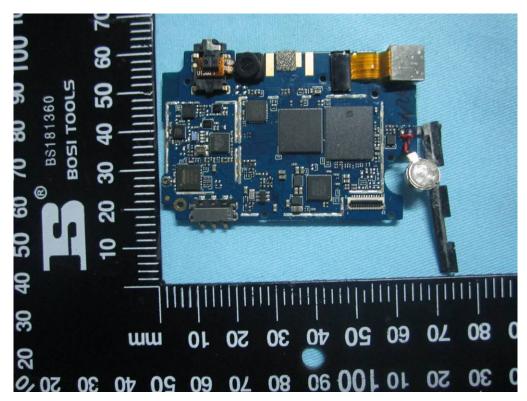
LCD – Rear View



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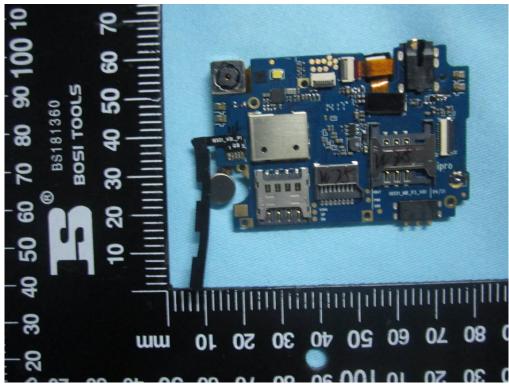
Mainborad With Shielding - Front View



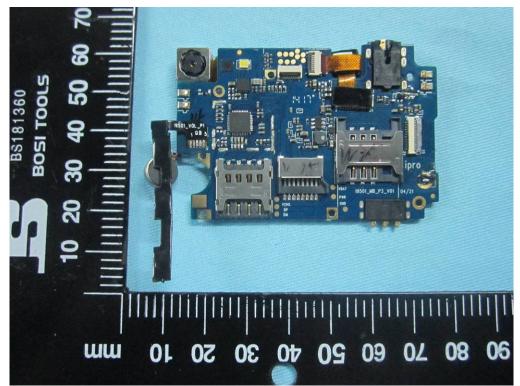
Mainborad Without Shielding - Front View



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Mainborad With Shielding- Rear View



Mainborad Without Shielding- Rear View



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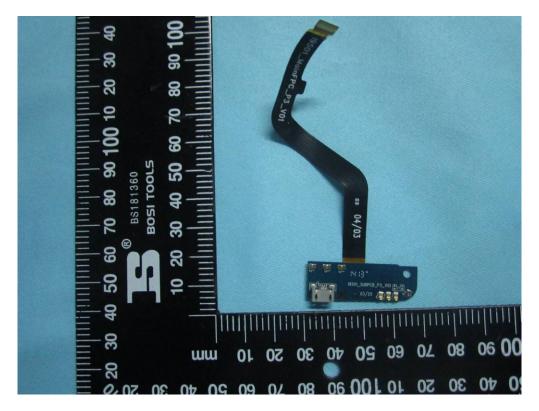
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 RF Test Report for Smart Mobile Phone

 Main Model:
 GLORY I

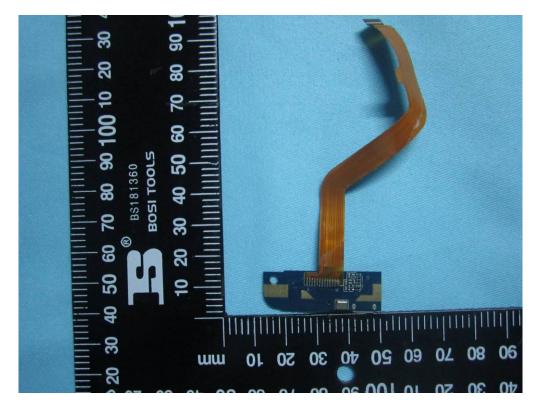
 Serial Model:
 NA

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Connect board - Front View

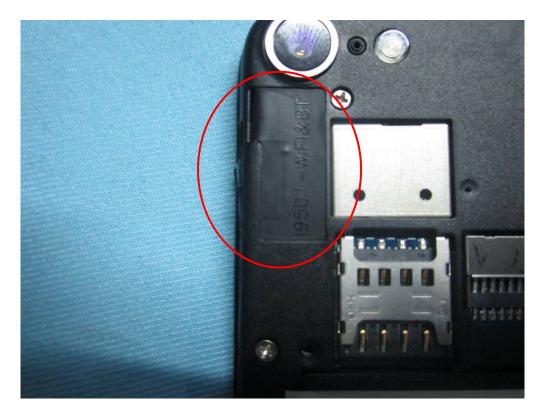


Connect board - Rear View





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BT/BLE/WIFI Antenna View



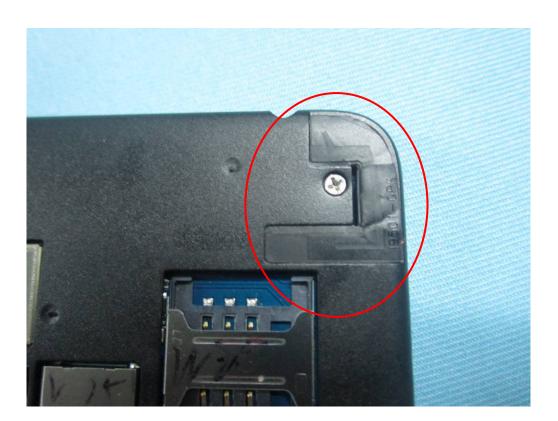
GSM/PCS/UMTS-FDD Antenna View



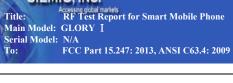


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Annex B.iii. Photograph 3: Test Setup Photo



Conducted Emissions Test Setup Front View



Conducted Emissions Test Setup Side View



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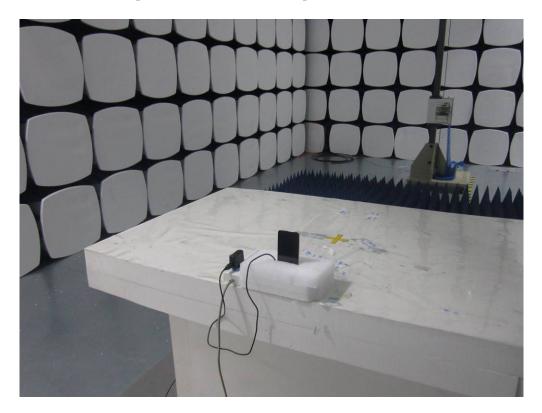
 Main Model:
 GLORY I

 Serial Model:
 N/A

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Radiated Spurious Emissions Test Setup Below 1GHz - Front View



Radiated Spurious Emissions Test Setup Above 1GHz -Front View

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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

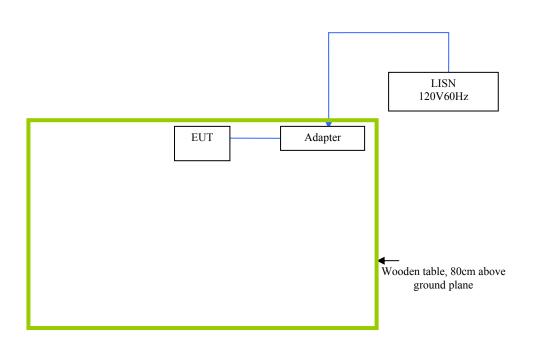
The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description (Including Brand Name)	Model	Calibration Date	Calibration Due Date
N/A	N/A	N/A	N/A	N/A



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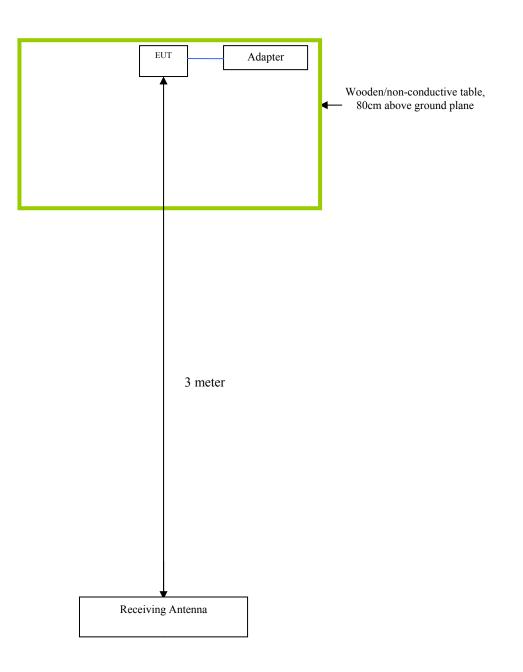
Block Configuration Diagram for AC Line Conducted Emissions





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Block Configuration Diagram for Radiated Emissions



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Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	The EUT was continuously transmitting to stimulate the worst case.

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Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

Please see attachment



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 Serial Model:
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Annex E. DECLARATION OF SIMILARITY