

🦒 Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCIS14110095601

FCC REPORT

Applicant: Interglobe Connection Corp

Address of Applicant: 7500 NW 25th Street 112 Miami, Florida 33122 USA

Equipment Under Test (EUT)

Product Name: MOBILE PHONE

Model No.: EKO DUO A35

Trade mark: EKO

FCC ID: 2AC7IEKO-A35

FCC CFR Title 47 Part 2

Applicable standards: FCC CFR Title 47 Part22 Subpart H

FCC CFR Title 47 Part24 Subpart E

Date of sample receipt: 18 Nov., 2014

Date of Test: 19 Nov., to 05 Dec., 2014

Date of report issued: 08 Dec., 2014

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

CCIS

Report No: CCIS14110095601

2. Version

Version No.	Date	Description
00	08 Dec., 2014	Original

Prepared by: 7040 Luo Date: 08 Dec., 2014

Report Clerk

Reviewed by: Date: 08 Dec., 2014

Project Engineer





3. Contents

		Page
1. CC	OVER PAGE	1
2. VE	ERSION	2
3. CC	ONTENTS	3
	EST SUMMARY	
5. GE	ENERAL INFORMATION	5
5.1	CLIENT INFORMATION	5
5.2	GENERAL DESCRIPTION OF E.U.T.	5
5.3	TEST MODES	7
5.4	RELATED SUBMITTAL(S) / GRANT (S)	7
5.5	TEST METHODOLOGY	7
5.6	LABORATORY FACILITY	7
5.7	LABORATORY LOCATION	7
5.8	TEST INSTRUMENTS LIST	8
6. SY	STEM TEST CONFIGURATION	9
6.1	EUT CONFIGURATION	9
6.2	EUT Exercise	9
6.3	CONFIGURATION OF TESTED SYSTEM	9
6.4	DESCRIPTION OF TEST MODES	9
6.5	CONDUCTED OUTPUT POWER	10
6.6	OCCUPY BANDWIDTH	12
6.7	MODULATION CHARACTERISTIC	18
6.8	OUT OF BAND EMISSION AT ANTENNA TERMINALS	18
6.9	ERP, EIRP MEASUREMENT	24
6.10	FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	
6.11	FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT	
6.12	FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT	33
7 TE	EST SETUP PHOTO	35
8 FU	IT CONSTRUCTIONAL DETAILS	36



4. Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Passed* (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 22.913 (a)(2) Part 24.232 (c)	Pass
Modulation Characteristics	Part 2.1047	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 Part 24.238	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a)	Pass
Out of band emission, Band Edge	Part 22.917 (a) Part 24.238 (a)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2)	Pass

Pass: The EUT complies with the essential requirements in the standard.



Report No: CCIS14110095601

5. General Information

5.1 Client Information

Applicant:	Interglobe Connection Corp
Address of Applicant:	7500 NW 25 th Street 112 Miami, Florida 33122 USA

5.2 General Description of E.U.T.

Product Name:	MOBILE PHONE
Model No.:	EKO DUO A35
Operation Frequency range:	GSM 850: 824.20MHz-848.80MHz PCS1900: 1850.20MHz-1909.80MHz
Modulation type:	GSM/GPRS:GMSK
Antenna type:	Internal Antenna
Antenna gain:	GSM 850: -2.75 dBi PCS 1900: -2.40 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-1200mAh
AC adapter:	Input:100-240V AC,50/60Hz 0.15A Output: DC 5.0V, 500mA





Operation Frequency List:

GS	M 850	PCS1900		
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)	
128	824.20	512	1850.20	
129	824.40	513	1850.40	
189	836.40	660	1879.80	
190	836.60	661	1880.00	
191	836.80	662	1880.20	
250	848.60	809	1909.60	
251	848.80	810	1909.80	

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

GSM850			PCS1900		
Channel Frequency(MHz)				Channel	Frequency(MHz)
Lowest channel	128	824.20	Lowest channel	512	1850.20
Middle channel	190	836.60	Middle channel	661	1880.00
Highest channel	251	848.80	Highest channel	810	1909.80

CCIS

Report No: CCIS14110095601

5.3 Test modes

Communicate mode (GSM850)	Keep the EUT in communicating mode on GSM 850 band.
Data mode (GPRS850)	Keep the EUT in data communicating mode on GPRS 850 band.
Communicate mode (PCS1900)	Keep the EUT in communicating mode on PCS1900 band.
Data mode (GPRS1900)	Keep the EUT in data communicating mode on GPRS1900 band.

5.4 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

5.5 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA 603 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

5.6 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

● IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282 Fax: +86-755-23116366

Report No: CCIS14110095601



5.8 Test Instruments list

Radia	Radiated Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)			
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017			
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	04-19-2014	04-19-2015			
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	04-19-2014	04-19-2015			
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
5	Amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2014	03-31-2015			
6	Amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	06-09-2014	06-08-2015			
7	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2014	03-31-2015			
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	03-31-2014	03-29-2015			
9	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A			
10	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A			
11	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP 30	CCIS0023	04-19-2014	04-19-2015			
12	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	09-02-2014	09-01-2015			
13	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2014	03-31-2015			
14	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	05-29-2014	05-28-2015			
15	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	04-19-2014	04-19-2015			

Report No: CCIS14110095601

6. System test configuration

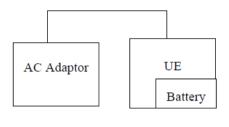
6.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

6.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

6.3 Configuration of Tested System



Remote Side



6.4 Description of Test Modes

The EUT has been tested under operating condition.

EUT staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for three modes (GSM850, PCS1900) with power adaptor, earphone and Data cable. The worst-case H mode for GSM850, PCS1900.





6.5 Conducted Output Power

Test Requirement:	FCC part 22.913(a) and FCC part 24.232(b)				
Test Method:	FCC part 2.1046				
Limit:	GSM 850 7W PCS 1900 2W				
Test setup:	EUT ATT Communication Tester Note: Measurement setup for testing on Antenna connector				
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMU200. Transmitter output power was read off in dBm.				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data

Report No: CCIS14110095601



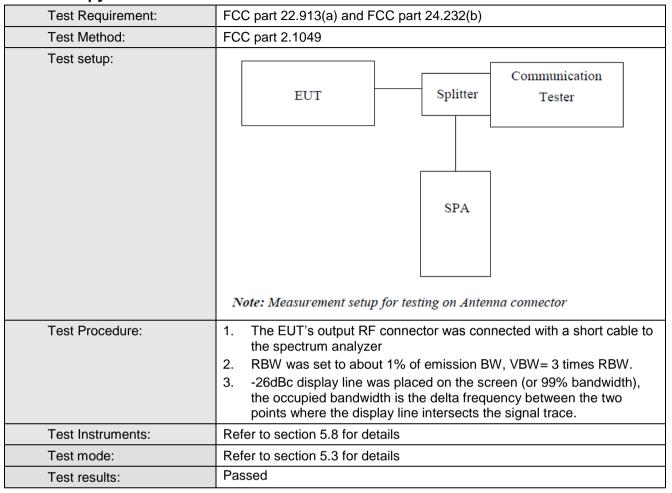
EUT Mode	Channel	Frequency (MHz)	Burst Average power (dBm)	Limit(dBm)	Result
	128	824.20	33.37		
GSM 850	190	836.60	33.28		
	251	848.80	33.23		
	128	824.20	33.40		
GPRS 850	190	836.60	33.27		
(1 Uplink slot)	251	848.80	33.25		
	128	824.20	32.48		
GPRS 850	190	836.60	32.40	38.45	Pass
(2 Uplink slots)	251	848.80	32.40		
	128	824.20	30.56		
GPRS 850	190	836.60	30.47		
(3 Uplink slots)	251	848.80	30.45		
	128	824.20	29.24		
GPRS 850	190	836.60	29.18		
(4 Uplink slots)	251	848.80	29.15		

EUT Mode	Channel	Frequency (MHz)	Burst Average power (dBm)	Limit(dBm)	Result
	512	1850.20	28.94		
PCS 1900	661	1880.00	29.12		
	810	1909.80	29.40		
	512	1850.20	29.00		
GPRS 1900	661	1880.00	29.15		
(1 Uplink slot)	810	1909.80	29.42		
	512	1850.20	28.04		
GPRS 1900	661	1880.00	28.28	33.00	Pass
(2 Uplink slots)	810	1909.80	28.67		
	512	1850.20	26.03		
GPRS 1900	661	1880.00	26.39		
(3 Uplink slots)	810	1909.80	26.99		
	512	1850.20	24.72		
GPRS 1900	661	1880.00	25.12		
(4 Uplink slots)	810	1909.80	25.87		





6.6 Occupy Bandwidth



Measurement Data



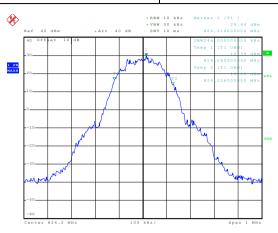
EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
	128	824.2	246	316
GSM 850	190	836.6	248	318
	251	848.8	246	318
	512	1850.2	248	318
PCS 1900	661	1880.0	246	314
	810	1909.8	242	322

Note: GSM & GPRS use the same modulation technical (GMSK), and with the same channels, so the 99% OBW and the -26dB of GPRS not performed.

Test plot as follows:



Test Item: 99% Occupy bandwidth Test Mode: GSM850



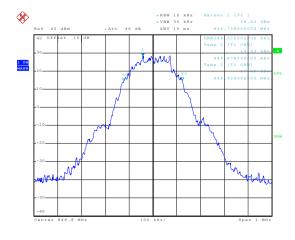
Date: 25.NOV.2014 19:49:05

Lowest channel



Date: 25.NOV.2014 19:49:46

Middle channel

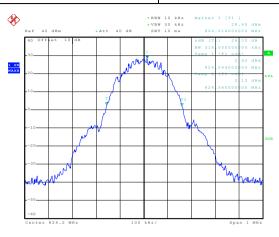


Date: 25.NOV.2014 19:50:02

Highest channel

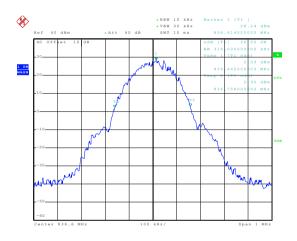


Test Item:	-26dB bandwidth	Test Mode:	GSM850



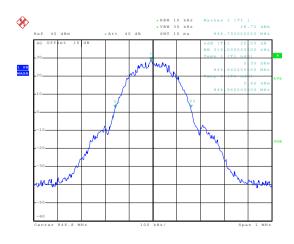
Date: 25.NOV.2014 19:49:16

Lowest channel



Date: 25.NOV.2014 19:49:33

Middle channel



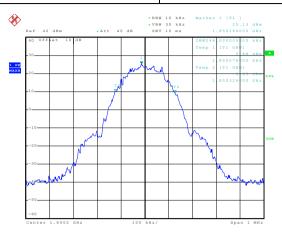
Date: 25.NOV.2014 19:50:15

Highest channel

Report No: CCIS14110095601

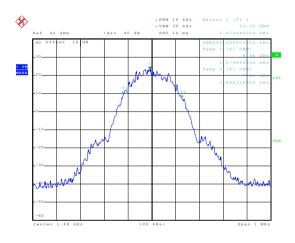


Test Item:	99% Occupy bandwidth	Test Mode:	PCS 1900
------------	----------------------	------------	----------



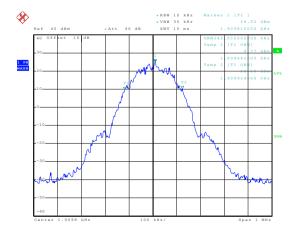
Date: 25.NOV.2014 19:52:10

Lowest channel



Date: 25.NOV.2014 19:52:25

Middle channel

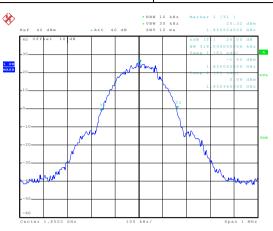


Date: 25.NOV.2014 19:53:19

Highest channel

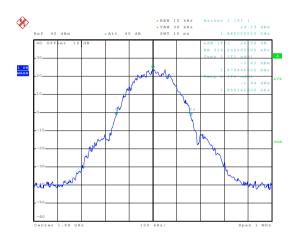


Test Item: -26dB bandwidth Test Mode: PCS 1900
--



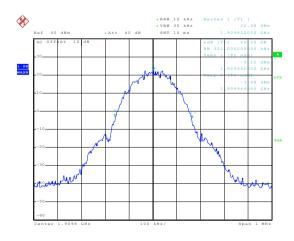
Date: 25.NOV.2014 19:51:48

Lowest channel



Date: 25.NOV.2014 19:52:38

Middle channel



Date: 25.NOV.2014 19:53:02

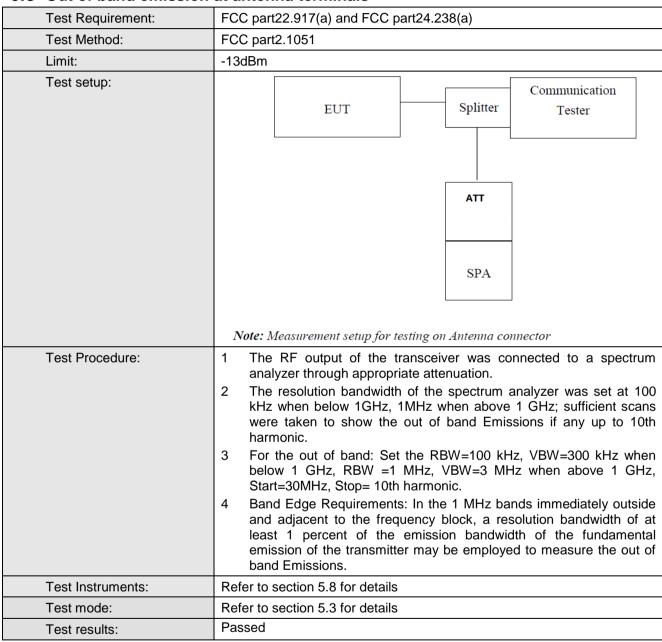
Highest channel



6.7 Modulation Characteristic

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

6.8 Out of band emission at antenna terminals

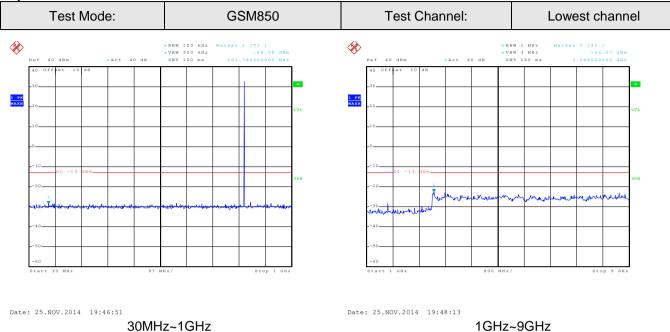


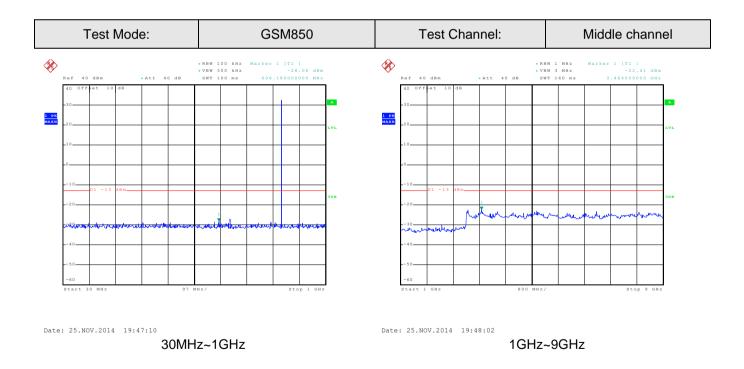
Test plots as follows:





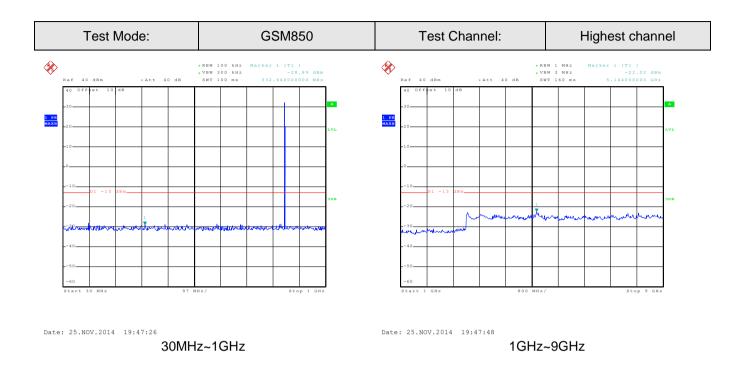
Spurious emission

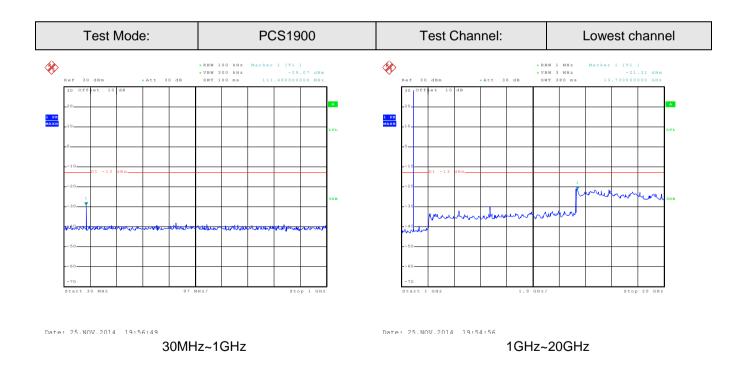






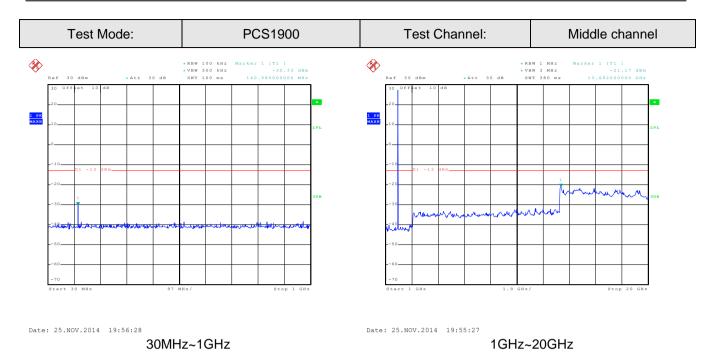


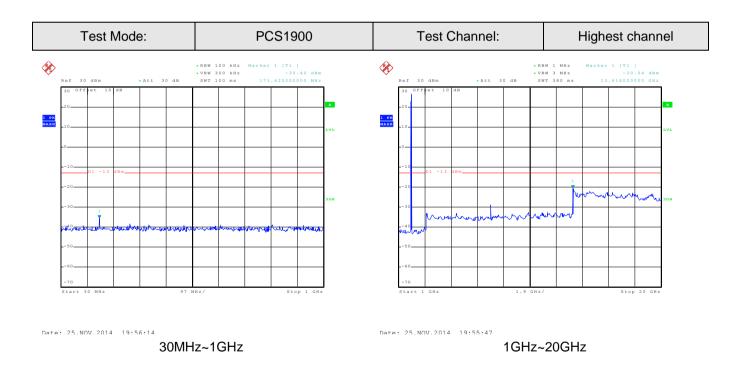




Report No: CCIS14110095601



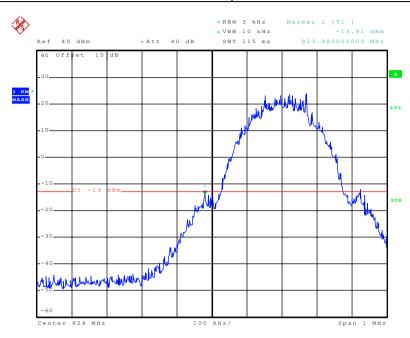






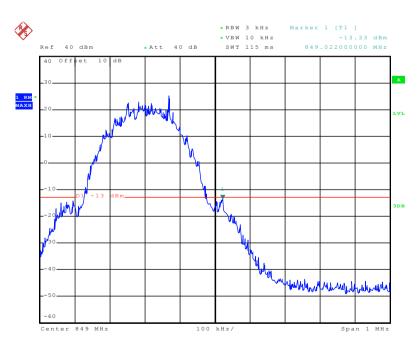
Band edge emission:





•Date: 25.NOV.2014 19:44:45

Lowest channel

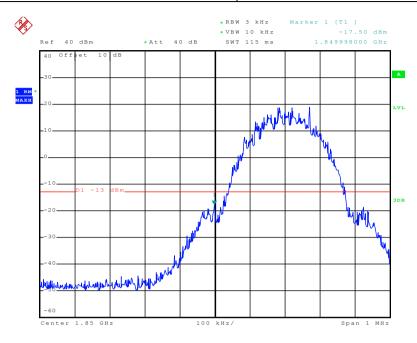


Date: 25.NOV.2014 19:45:32

Highest channel

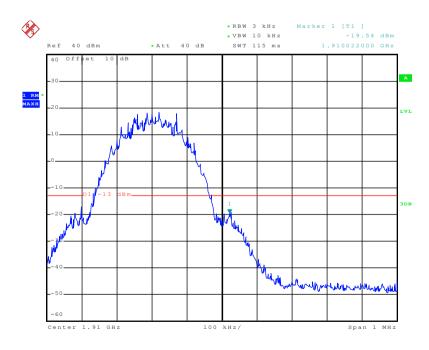






Date: 25.NOV.2014 19:43:42

Lowest channel



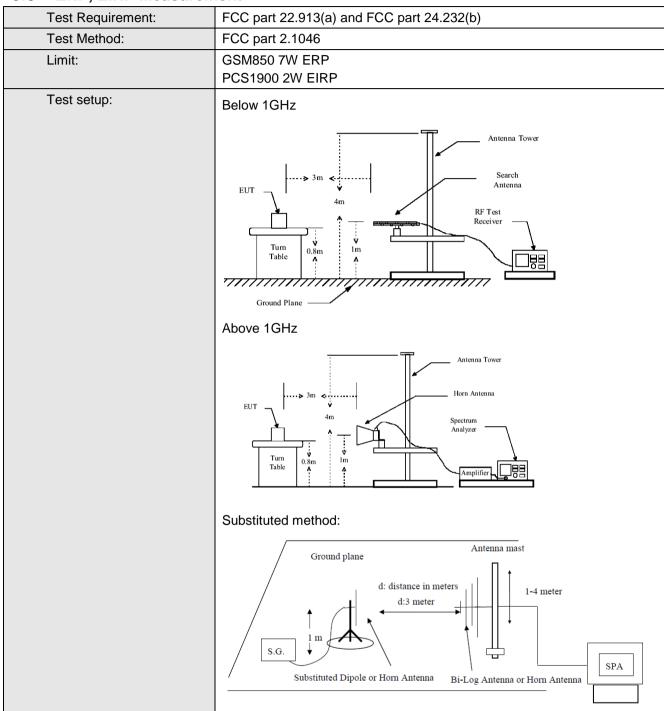
Date: 25.NOV.2014 19:43:01

Highest channel

Page 23 of 43



6.9 ERP, EIRP Measurement







Test Procedure:	 The EUT was placed on an non-conductive turntable using a non- conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
	2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.
	3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:
	ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)
	4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:
	EIRP = S.G. output (dBm) + Antenna Gain (dBi) - Cable Loss (dB)
	5. The worse case was relating to the conducted output power.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case)



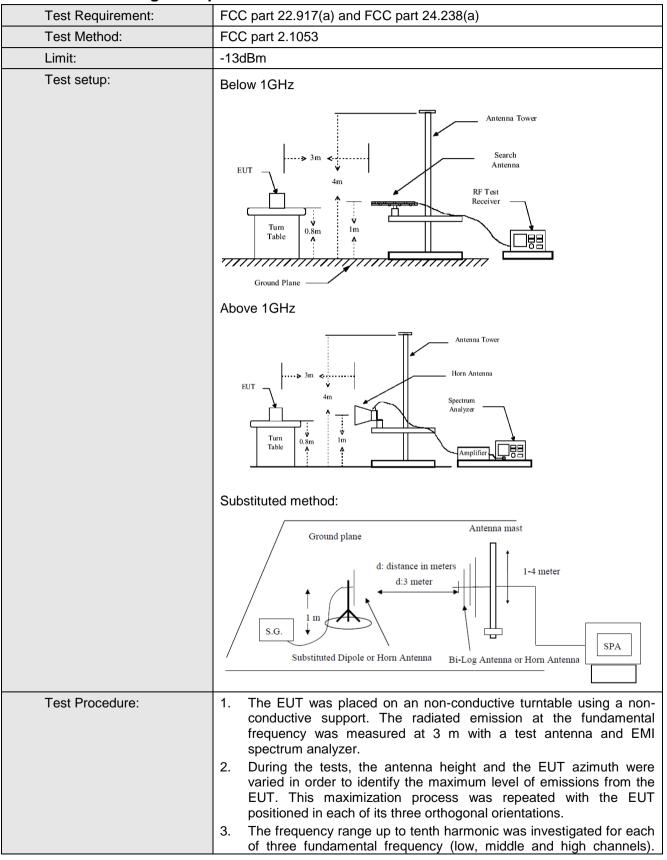


EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
GSM850 128		V	19.90			
		Н	Н	15.31	38.45	Pass
		E1	V	19.87		
	128		Н	15.27		
			V	19.81		
		E2	Н	15.22		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
PCS1900 810			V	14.18		
	Н	Н	8.23			
		810 E1	V	14.13	33.00	Pass
	810		Н	8.19		
			V	14.08		
		E2	Н	8.12		



6.10 Field strength of spurious radiation measurement







	Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details. Based on the ERP/EIRP results, we selected GSM850, PCS1900, for Radiated spurious emission test, other modes were not test.
Test results:	Passed



Measurement Data (worst case)

Test mode:	GSM850		Test channel:	Lowest
	Spurious	Emission	L''(/ ID)	D !!
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
1648.40	Vertical	-59.62		
2472.60	V	-63.95		
3296.80	V	-52.38		
4121.00	V	-62.22		
4945.20	V	-57.78	40.00	Dana
1648.40	Horizontal	-65.03	-13.00	Pass
2472.60	Н	-23.36		
3296.80	Н	-52.45		
4121.00	Н	-57.07		
4945.20	Н	-57.04		
Test mode:	GSN	1850	Test channel:	Middle
Fraguerov (MHz)	Spurious	Emission	Limit (dDm)	Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
1673.20	Vertical	-58.01		Pass
2509.80	V	-63.43		
3346.40	V	-56.10		
4183.00	V	-62.22		
5019.60	V	-57.79	42.00	
1673.20	Horizontal	-67.50	-13.00	
2509.80	Н	-59.59		
3346.40	Н	-54.25		
4183.00	Н	-62.17		
5019.60	Н	-59.89		
Test mode:	GSN	1850	Test channel:	Highest
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result
riequency (winz)	Polarization	Level (dBm)	Lilliit (ubill)	Kesuit
1697.60	Vertical	-51.50		
2546.40	V	-62.38		
3395.20	V	-52.09		
4244.00	V	-62.06		
5092.80	V	-59.38	-13.00	Pass
1697.60	Horizontal	-60.83	-13.00	
2546.40	Н	-60.90		
3395.20	Н	-49.75		
4244.00	Н	-61.54		
5092.80	Н	-59.42		

Remark:

- 1. The emission behavior belongs to narrowband spurious emission.
- 2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.



Test mode:	PCS	1900	Test channel:	Lowest	
Fraguency (MHz)	Spurious	Emission	Limit (dDm)	Result	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Kesuit	
3700.40	Vertical	-53.24			
5550.60	V	-62.17			
7400.80	V	-50.56			
9251.00	V	-26.95	-13.00	Pass	
3700.40	Horizontal	-42.33	-13.00	Fa55	
5550.60	Н	-63.62			
7400.80	Н	-52.40			
9251.00	Н	-30.20			
Test mode:	PCS	1900	Test channel:	Middle	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
riequency (MHZ)	Polarization	Level (dBm)	LIIIII (UDIII)	Result	
3760.00	Vertical	-46.85		Pass	
5640.00	V	-62.88			
7520.00	V	-50.76			
9400.00	V	-33.33	-13.00		
3760.00	Horizontal	-36.27	-13.00		
5640.00	Н	-63.15			
7520.00	Н	-55.09			
9400.00	Н	-26.84			
Test mode:	PCS	1900	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dBm)	Result	
1 requericy (IVII 12)	Polarization	Level (dBm)	Limit (dbin)	Nesuit	
3819.60	Vertical	-45.26			
5729.40	V	-64.54			
7639.20	V	-47.82		Pass	
9549.00	V	-41.86	-13.00		
3819.60	Horizontal	-51.20	-13.00	F 433	
5729.40	Н	-63.79			
7639.20	Н	-51.85			
9549.00	Н	-33.03			

Remark:

- 1. The emission behavior belongs to narrowband spurious emission.
- 2. The emission levels of below 1 GHz are very lower than the limit and not show in test report.





6.11 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part 2.1055(a)(1)(b)
Test Method:	FCC Part 2.1055(a)(1)(b)
Limit:	2.5 ppm
Test setup:	Spectrum analyzer EUT Att. Variable Power Supply
	Note: Measurement setup for testing on Antenna connector
Test procedure:	 The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.





Measurement Data:

Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz						
			equency error		Result	
Power supplied (Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)		
	-30	184	0.219938			
	-20	142	0.169735			
	-10	86	0.102797			
	0	97	0.115945			
3.70	10	120	0.143438	2.5	Pass	
	20	100	0.119531			
	30	95	0.113555			
	40	107	0.127899			
	50	99	0.118336			
Refe	rence Frequency: P0	CS1900 Mid	dle channel=661 chann	el=1880MHz		
5 " 10/1)	T(%)	Frequency error			D ''	
Power supplied (Vdc)	Temperature (°C)	Hz	ppm		Result	
	-30	117	0.062234		Pass	
	-20	125	0.066489			
	-10	101	0.053723			
3.70	0	112	0.059574			
	10	138	0.073404	2.5		
	20	121	0.064362	-		
	30	140	0.074468			
	40	109	0.057979			
	50	77	0.040957			





6.12 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part 2.1055(d)(1)(2)				
Test Method:	FCC Part 2.1055(d)(1)(2)				
Limit:	2.5ppm				
Test setup:	Spectrum analyzer EUT Variable Power Supply Note: Measurement setup for testing on Antenna connector				
Test procedure:	 Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/-15%) and endpoint, record the maximum frequency change. 				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details, and all channels have been tested, only shows the worst channel data in this report.				
Test results:	Passed				

Measurement Data (the worst channel):





Refe	erence Frequency: G	SM850 Middle ch	annel=190 chann	el=836.6MHz			
Temperature (℃)	Power supplied	Frequency error		Limit (ppm)	Result		
	(Vdc)	Hz	ppm	Еши (ррш)	Result		
	4.25	138	0.164953				
25	3.70	112	0.133875	2.5	Pass		
	3.40	149	0.178102				
Reference Frequency: PCS1900 Middle channel=661 channel=1880MHz							
Temperature (℃)	Power supplied	Frequency error			Danult		
	(Vdc)	Hz	ppm	Limit (ppm)	Result		
25	4.25	129	0.068617				
	3.70	111	0.059043	2.5	Pass		
	3.40	91	0.048404				