

Report No. : FG431805

# **FCC RF Test Report**

APPLICANT : CT Asia

**EQUIPMENT**: Mobile Phone

BRAND NAME : BLU

MODEL NAME : Life Pure XL

FCC ID : YHLBLUPUREXL

**STANDARD** : FCC 47 CFR Part 2, 22(H), 24(E)

CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was completed on Apr. 03, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 and the testing has shown the tested sample to be in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

# SPORTON INTERNATIONAL (SHENZHEN) INC.

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

SPORTON INTERNATIONAL (SHENZHEN) INC.

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Report Issued Date : Apr. 28, 2014

Testing Laboratory
2353

Report Version : Rev. 01



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**REVISION HISTORY** 

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG431805	Rev. 01	Initial issue of report	Apr. 28, 2014



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# **SUMMARY OF TEST RESULT**

Report Section	FCC Rule Description		Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	N/A	PASS	-
3.2	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.3	§22.913(a)(2)	Effective Radiated Power	< 7 Watts	PASS	-
3.3 §24.232(c) Equivalent Isotropic Radiated Power		< 2 Watts	PASS	-	
3.4	§2.1049  3.4 §22.917(b) Occupied Bandwidth  §24.238(b)		N/A	PASS	-
3.5	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
\$2.1051 Conducted Spurious 3.6		< 43+10log <sub>10</sub> (P[Watts])	PASS	-	
3.7	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 27.74 dB at 2510.000 MHz
\$2.1055 Frequency Stability for Temperature & Voltage		< 2.5 ppm	PASS	-	

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# 1 General Description

# 1.1 Applicant

### **CT Asia**

Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

### 1.2 Manufacturer

### Gionee Communication Equipment Co., Ltd.

21/F, Times Technology Building, No. 7028, Shennan Avenue, Futian District, Shenzhen, China

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# 1.3 Product Feature of Equipment Under Test

	Product Feature
Equipment	Mobile Phone
Brand Name	BLU
Model Name	Life Pure XL
FCC ID	YHLBLUPUREXL
	GSM/GPRS/EGPRS/WCDMA/HSPA/NFC
EUT supports Radios application	WLAN2.4GHz 802.11b/g/n HT20/HT40/
	Bluetooth v3.0+EDR/Bluetooth v4.0 LE
HW Version	E7_0101_V5006
SW Version	E7_Mainboard_P1.1
EUT Stage	Identical Prototype

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

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# 1.4 Product Specification subjective to this standard

Product Specif	Product Specification subjective to this standard					
	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz					
Tx Frequency	WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz					
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz					
Maximum Output Power to Antenna	GSM850 : 32.64 dBm GSM1900 : 29.43 dBm WCDMA Band V : 23.25 dBm WCDMA Band II : 23.45 dBm					
Antenna Type	Fixed Internal Antenna					
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink)					

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### 1.5 **Modification of EUT**

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

### Maximum ERP/EIRP Power, Frequency Tolerance, and Emission 1.6 Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.98	0.02 ppm	248KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.18	0.02 ppm	248KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.10	0.01 ppm	4M16F9W
Part 24	GSM1900 GSM	GMSK	1.21	0.01 ppm	248KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.52	0.02 ppm	246KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.32	0.01 ppm	4M16F9W

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### **Testing Location** 1.7

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.				
	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan				
Test Site Location	warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.				
	TEL: +86-755-3320-2398				
Test Site No.	Sporton	Site No.	FCC Registration No.		
lest site NO.	TH01-SZ	03CH01-SZ	831040		

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.			
	No. 101, Complex Building C, Guanlong Village, Xili Town,			
Test Site Location	Nanshan District, Shenzhen, Guangdong, P.R.C.			
rest site Location	TEL: +86-755-8637-9589			
	FAX: +86-755-8637-9595			
Test Site No.	Sporton Site No.			
iest site NO.	OTA01-SZ			

### **Applicable Standards** 1.8

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR Part 2, 22(H), 24(E)
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01

### Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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# 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r01 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission (X plane for 22H, Y plane for 24E).

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
- 2. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

Test Modes							
Band	Radiated TCs	Conducted TCs					
GSM 850	■ GSM Link	■ GSM Link					
GSIVI 650	■ EDGE class 8 Link	■ EDGE class 8 Link					
CCM 4000	■ GSM Link	■ GSM Link					
GSM 1900	■ EDGE class 8 Link	■ EDGE class 8 Link					
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					

Note: The maximum power levels are chosen to test as the worst case configuration as follows:

GSM mode for GMSK modulation,

EDGE multi-slot class 8 mode for 8PSK modulation,

RMC 12.2Kbps mode for WCDMA band V,

RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.

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### **Conducted Power Measurement Results:**

Conducted Power (*Unit: dBm)							
Band		GSM850		GSM1900			
Channel	128	189	251	512	661	810	
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8	
GSM	32.63	32.46	<mark>32.64</mark>	<mark>29.43</mark>	29.34	29.31	
GPRS class 8	32.62	32.42	32.61	29.42	29.32	29.24	
GPRS class 10	30.84	30.71	30.86	28.00	28.01	27.97	
GPRS class 11	29.76	29.76	29.79	26.80	26.91	26.95	
GPRS class 12	28.71	28.69	28.81	26.29	26.27	26.19	
EGPRS class 8	26.74	26.69	26.74	25.80	25.78	25.70	
EGPRS class 10	26.68	26.69	26.68	25.74	25.76	25.69	
EGPRS class 11	26.63	26.53	26.64	25.71	25.70	25.64	
EGPRS class 12	26.52	26.49	26.54	25.64	25.68	25.70	

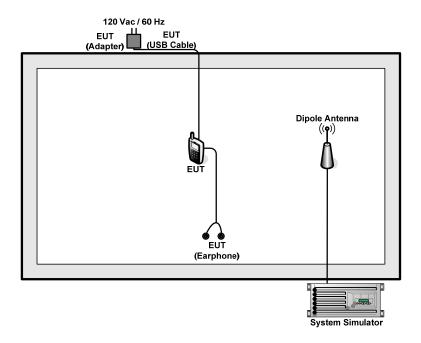
Conducted Power (*Unit: dBm)							
Band	Band WCDMA Band V				CDMA Band	II	
Channel	4132	4182	4233	9262	9400	9538	
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6	
RMC 12.2K	23.12	<b>23.25</b>	23.08	23.29	<mark>23.45</mark>	23.38	
HSDPA Subtest-1	21.66	21.84	21.58	21.76	21.93	21.90	
HSDPA Subtest-2	21.69	21.97	21.78	21.84	22.09	21.96	
HSDPA Subtest-3	21.65	21.93	21.75	21.78	22.06	21.91	
HSDPA Subtest-4	21.74	21.92	21.74	21.86	22.03	21.98	
HSUPA Subtest-1	21.14	21.89	21.65	21.83	21.66	21.94	
HSUPA Subtest-2	20.66	20.71	20.73	20.76	20.48	20.46	
HSUPA Subtest-3	20.44	20.51	20.33	20.54	20.70	20.65	
HSUPA Subtest-4	21.60	21.89	21.67	21.77	21.90	21.88	
HSUPA Subtest-5	22.12	21.60	21.76	21.58	21.73	21.69	

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### **Connection Diagram of Test System** 2.2



### 2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	TOPWORD	3303DR	N/A	N/A	Unshielded, 1.8 m

### **Measurement Results Explanation Example** 2.4

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

### Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 7 dB and a 10dB attenuator.

Offset 
$$(dB) = RF$$
 cable  $loss(dB) + attenuator$  factor $(dB)$ .  
= 7 + 10 = 17 (dB)

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### 3 Test Result

# 3.1 Conducted Output Power Measurement

### 3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

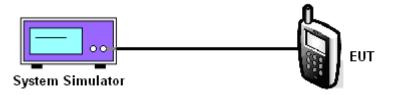
### 3.1.2 Measuring Instruments

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

### 3.1.3 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

### 3.1.4 Test Setup



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# 3.1.5 Test Result of Conducted Output Power

	Cellular Band										
Modes	GSM850 (GSM)			GSM8	GSM850 (EDGE class 8)			WCDMA Band V (RMC 12.2Kbps)			
Channel	128 (Low)	189 (Mid)	251 (High)	128 (Low)	189 (Mid)	251 (High)	4132 (Low)	4182 (Mid)	4233 (High)		
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8	826.4	836.4	846.6		
Conducted Power (dBm)	32.63	32.46	32.64	26.74	26.69	26.74	23.12	23.25	23.08		
Conducted Power (Watts)	1.83	1.76	1.84	0.47	0.47	0.47	0.21	0.21	0.20		

	PCS Band										
Modes	GSM1900 (GSM)			GSM19	GSM1900 (EDGE class 8)			WCDMA Band II (RMC 12.2Kbps)			
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)		
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6		
Conducted Power (dBm)	29.43	29.34	29.31	25.80	25.78	25.70	23.29	23.45	23.38		
Conducted Power (Watts)	0.88	0.86	0.85	0.38	0.38	0.37	0.21	0.22	0.22		

Note: Maximum burst average power for GSM, and maximum average power for WCDMA.

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### 3.2 Peak-to-Average Ratio

# 3.2.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

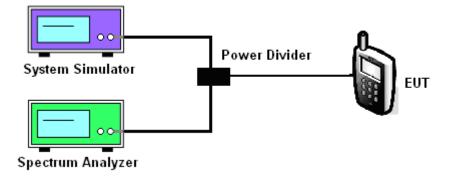
### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

- 1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 2. For GSM/EGPRS operating modes:
  - a. Set EUT in maximum power output.
  - b. Set the RBW = 1MHz, VBW = 3MHz, Peak detector on spectrum analyzer for first trace.
  - c. Set the RBW = 1MHz, VBW = 3MHz, RMS detector on spectrum analyzer for second trace.
  - d. The wanted burst signal is triggered by spectrum analyzer, and measured respectively the peak level and Mean level without burst-off time, after system simulator has synchronized with the spectrum analyzer.
- 3. For UMTS operating modes:
  - a. Set the CCDF (Complementary Cumulative Distribution Function) option on the spectrum analyzer.
  - b. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 4. Record the deviation as Peak to Average Ratio.

### 3.2.4 Test Setup



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3.2.5 Test Result of Peak-to-Average Ratio

	PCS Band											
Modes	GSM1900 (GSM)			GSM1900 (EDGE class 8)				WCDMA Band II (RMC 12.2Kbps)				
Channel	512 (Low)	661 (Mid)	810 (High)	512 (Low)	661 (Mid)	810 (High)	9262 (Low)	9400 (Mid)	9538 (High)			
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8	1852.4	1880	1907.6			
Peak-to-Average Ratio (dB)	0.29	0.30	0.30	2.62	2.61	2.54	3.08	3.24	3.08			

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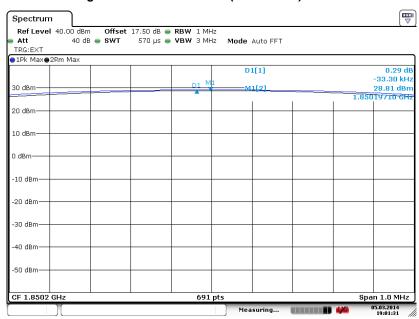


# 3.2.6 Test Result (Plots) of Peak-to-Average Ratio

Band :	GSM 1900	Test Mode :	GSM Link (GMSK)
Band :	GSM 1900	Test Mode :	GSM Link (GMSK)

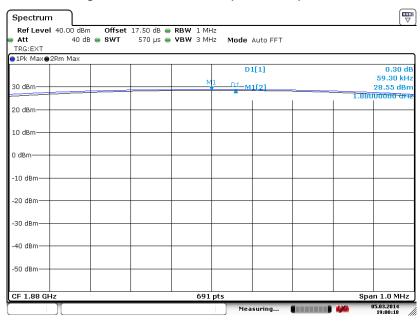
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### Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



### Date: 5.MAR.2014 19:01:32

### Peak-to-Average Ratio on Channel 661 (1880.0 MHz)

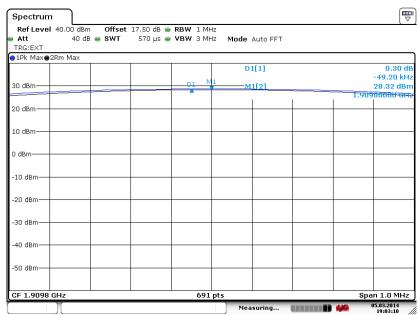


Date: 5.MAR.2014 19:00:18



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### Peak-to-Average Ratio on Channel 810 (1909.8 MHz)

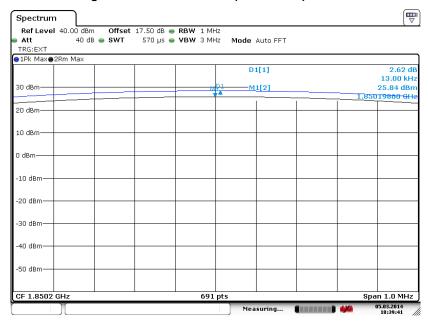


Date: 5.MAR.2014 19:03:10

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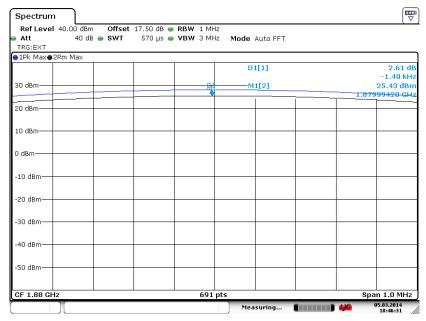
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

### Peak-to-Average Ratio on Channel 512 (1850.2 MHz)



Date: 5.MAR.2014 18:39:41

### Peak-to-Average Ratio on Channel 661 (1880.0 MHz)



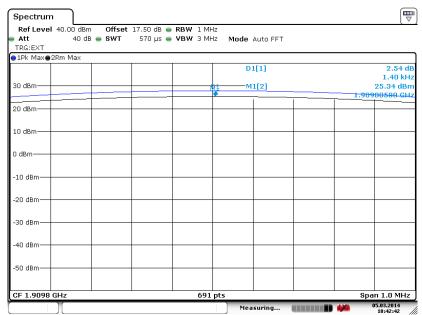
Date: 5.MAR.2014 18:46:32

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### Peak-to-Average Ratio on Channel 810 (1909.8 MHz)



Date: 5.MAR.2014 18:42:42

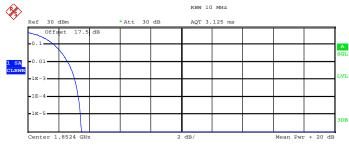
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Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

### Peak-to-Average Ratio on Channel 9262 (1852.4 MHz)



Complementary Cumulative Distribution Function (100000 samples)  ${\tt Trace} \ \ 1$ 

Mean 22.43 dBm
Peak 25.92 dBm
Crest 3.49 dB

10 % 1.72 dB
1 % 2.60 dB
.1 % 3.08 dB

3.28 dB

Date: 2.APR.2014 22:47:23

.01 %



Peak-to-Average Ratio on Channel 9400 (1880.0 MHz)

Complementary Cumulative Distribution Function (100000 samples)  ${\tt Trace} \ \ \, 1$ 

Mean 22.53 dBm
Peak 26.13 dBm
Crest 3.61 dB

10 % 1.76 dB
1 % 2.72 dB
.1 % 3.24 dB
.01 % 3.48 dB

Date: 2.APR.2014 22:48:08

TEL: 86-755-3320-2398 FCC ID: YHLBLUPUREXL

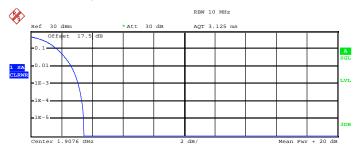
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# FCC RF Test Report

### Peak-to-Average Ratio on Channel 9538 (1907.6 MHz)



Complementary Cumulative Distribution Function (100000 samples)  ${\tt Trace} \ \ 1$ 

Mean 22.12 dBm
Peak 25.57 dBm
Crest 3.45 dB

10 % 1.72 dB
1 % 2.64 dB
.1 % 3.08 dB

3.32 dB

Date: 2.APR.2014 22:45:22

.01 %

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# 3.3 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

### 3.3.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

### 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

- 1. The EUT was placed on a turntable 1.5 meters high in a fully anechoic chamber.
- 2. The EUT was placed 3 meters from the receiving antenna, which was mounted on the antenna tower.
- GSM operating modes: Set RBW= 1MHz, VBW= 3MHz, RMS detector over burst;
   UMTS operating modes: Set RBW= 100 kHz, VBW= 300 kHz, RMS detector over frame, and use channel power option with bandwidth=5MHz, per KDB 971168 D01.
- 4. The table was rotated 360 degrees to determine the position of the highest radiated power.
- 5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
- 6. Taking the record of maximum ERP/EIRP.
- 7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. The conducted power at the terminal of the dipole antenna is measured.
- 9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
- 10. ERP/EIRP = Ps + Et Es + Gs = Ps + Rt Rs + Gs

Ps (dBm): Input power to substitution antenna.

Gs (dBi or dBd): Substitution antenna Gain.

Et = Rt + AF

Es = Rs + AF

AF (dB/m): Receive antenna factor

Rt: The highest received signal in spectrum analyzer for EUT.

Rs: The highest received signal in spectrum analyzer for substitution antenna.

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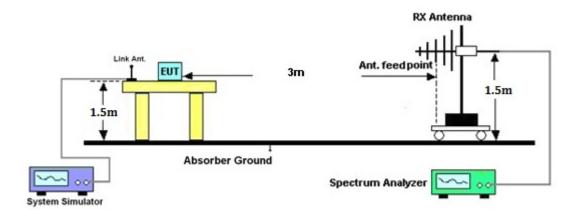
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# 3.3.4 Test Setup



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3.3.5 Test Result of ERP

	GSM850 (GSM) Radiated Power ERP										
	Horizontal Polarization										
Frequency (MHz)	Rt         Rs         Ps         Gs         ERP         ERP           (dBm)         (dBm)         (dBd)         (dBm)         (W)										
824.20	-19.40	-48.12	0.00	-1.08	27.64	0.58					
836.40	-18.59	-48.28	0.00	-0.93	28.76	0.75					
848.80	-17.67	-48.35	0.00	-0.76	29.92	0.98					
		Ve	ertical Polarizati	on							
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)					
824.20	-27.65	-47.97	0.00	-1.08	19.24	0.08					
836.40	-26.09	-48.01	0.00	-0.93	20.99	0.13					
848.80	-24.55	-48.05	0.00	-0.76	22.74	0.19					

	GSM850 (EDGE class 8) Radiated Power ERP										
	Horizontal Polarization										
Frequency (MHz)	Rt         Rs         Ps         Gs         ERP         ERI           (dBm)         (dBm)         (dBd)         (dBm)         (W)										
824.20	-26.67	-48.12	0.00	-1.08	20.37	0.11					
836.40	-25.67	-48.28	0.00	-0.93	21.68	0.15					
848.80	-25.04	-48.35	0.00	-0.76	22.55	0.18					
		Ve	ertical Polarizati	on							
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)					
824.20	-33.67	-47.97	0.00	-1.08	13.22	0.02					
836.40	-32.72	-48.01	0.00	-0.93	14.36	0.03					
848.80	-31.49	-48.05	0.00	-0.76	15.80	0.04					

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# FCC RF Test Report

	WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP										
Horizontal Polarization											
Frequency	Rt	Rs	Ps	Gs	ERP	ERP					
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)					
826.40	-28.51	-48.12	0.00	-1.08	18.53	0.07					
836.40	-27.73	-48.28	0.00	-0.93	19.62	0.09					
846.60	-27.63	-48.35	0.00	-0.76	19.96	0.10					
		Ve	ertical Polarizati	on							
Frequency	Rt	Rs	Ps	Gs	ERP	ERP					
(MHz)	(dBm)	(dBm)	(dBm)	(dBd)	(dBm)	(W)					
826.40	-36.74	-47.97	0.00	-1.08	10.15	0.01					
836.40	-35.39	-48.01	0.00	-0.93	11.69	0.01					
846.60	-34.60	-48.05	0.00	-0.76	12.69	0.02					

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3.3.6 Test Result of EIRP

	GSM1900 (GSM) Radiated Power EIRP										
	Horizontal Polarization										
Frequency	Rt Rs Ps Gs EIRP EIRP										
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)					
1850.20	-23.59	-51.88	0.00	1.96	30.25	1.06					
1880.00	-24.60	-52.99	0.00	2.00	30.39	1.09					
1909.80	-25.67	-54.28	0.00	1.98	30.59	1.15					
		Ve	ertical Polarizati	on							
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP					
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)					
1850.20	-23.75	-52.13	0.00	1.96	30.34	1.08					
1880.00	-24.83	-53.17	0.00	2.00	30.34	1.08					
1909.80	-25.27	-54.13	0.00	1.98	30.84	1.21					

	GSM1900 (EDGE class 8) Radiated Power EIRP										
	Horizontal Polarization										
Frequency (MHz)	Rt         Rs         Ps         Gs         EIRP         EIRF           (dBm)         (dBm)         (dBi)         (dBm)         (W)										
1850.20	-27.07	-51.88	0.00	1.96	26.77	0.48					
1880.00	-28.36	-52.99	0.00	2.00	26.63	0.46					
1909.80	-29.39	-54.28	0.00	1.98	26.87	0.49					
		Ve	ertical Polarization	on							
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)					
1850.20	-27.27	-52.13	0.00	1.96	26.82	0.48					
1880.00	-28.48	-53.17	0.00	2.00	26.69	0.47					
1909.80	-28.94	-54.13	0.00	1.98	27.17	0.52					

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# FCC RF Test Report

	WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP										
	Horizontal Polarization										
Frequency	Rt Rs Ps Gs EIRP EIRP										
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)					
1852.40	-29.05	-51.88	0.00	1.96	24.79	0.30					
1880.00	-30.36	-52.99	0.00	2.00	24.63	0.29					
1907.60	-31.62	-54.28	0.00	1.98	24.64	0.29					
		Ve	ertical Polarization	on							
Frequency	Rt	Rs	Ps	Gs	EIRP	EIRP					
(MHz)	(dBm)	(dBm)	(dBm)	(dBi)	(dBm)	(W)					
1852.40	-29.20	-52.13	0.00	1.96	24.89	0.31					
1880.00	-30.51	-53.17	0.00	2.00	24.66	0.29					
1907.60	-31.11	-54.13	0.00	1.98	25.00	0.32					

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# 3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

### 3.4.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

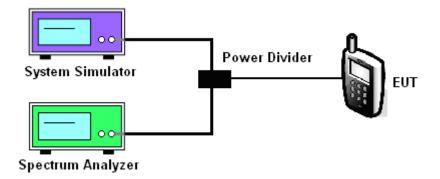
### 3.4.2 Measuring Instruments

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

### 3.4.3 Test Procedures

- 1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 2. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3\*RBW, sample detector, trace maximum hold.
- 4. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3\*RBW, peak detector, trace maximum hold.

### 3.4.4 Test Setup



SPORTON INTERNATIONAL (SHENZHEN) INC.

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# 3.4.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Cellular Band									
Modes	G	SM850 (GSI	VI)	GSM850 (EDGE class 8)					
Channel	128	189	251	128	189	251			
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8			
99% OBW (kHz)	244.00	248.00	244.00	244.00	248.00	246.00			
26dB BW (kHz)	312.00	314.00	310.00	300.00	306.00	310.00			

PCS Band									
Modes	GS	SM1900 (GS	M)	GSM1900 (EDGE class 8)					
Channel	512	661	810	512	661	810			
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)			
Frequency (MHz)	1850.2	1880	1909.8	1850.2	1880	1909.8			
99% OBW (kHz)	246.00	244.00	248.00	246.00	246.00	244.00			
26dB BW (kHz)	310.00	318.00	306.00	310.00	314.00	304.00			

Cellular Band					
Modes	WCDMA Band V (RMC 12.2Kbps)				
Channel	4132 (Low)	4182 (Mid)	4233 (High)		
Frequency (MHz)	826.4	836.4	846.6		
99% OBW (MHz)	4.16	4.16	4.16		
26dB BW (MHz)	4.68	4.68	4.68		

PCS Band				
Modes	WCDMA Band II (RMC 12.2Kbps)			
Channel	9262 (Low)	9400 (Mid)	9538 (High)	
Frequency (MHz)	1852.4	1880	1907.6	
99% OBW (MHz)	4.16	4.14	4.14	
26dB BW (MHz)	4.68	4.68	4.68	

**SPORTON INTERNATIONAL (SHENZHEN) INC.** TEL: 86-755-3320-2398

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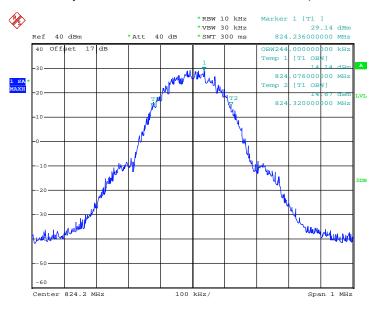
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# 3.4.6 Test Result (Plots) of 99% Occupied Bandwidth and 26dB Bandwidth

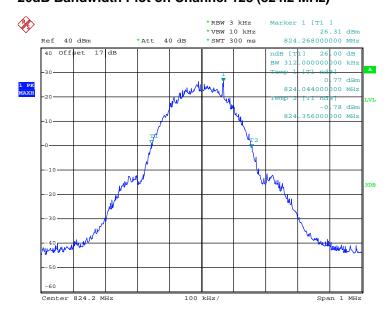
Band :	GSM 850	Test Mode :	GSM Link (GMSK)

### 99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 2.APR.2014 11:03:08

### 26dB Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 2.APR.2014 10:54:05

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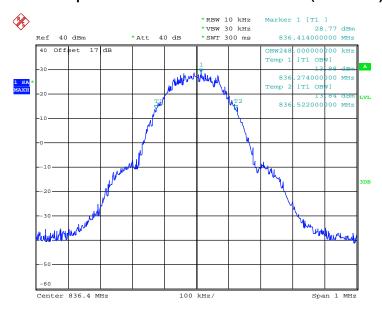
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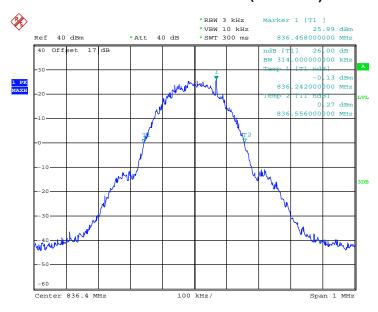
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### 99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 2.APR.2014 11:01:26

### 26dB Bandwidth Plot on Channel 189 (836.4 MHz)



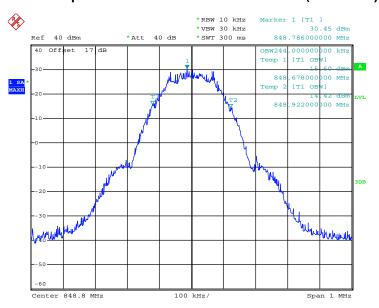
Date: 2.APR.2014 10:51:41

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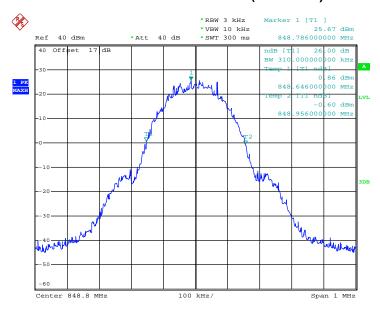
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### 99% Occupied Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 2.APR.2014 10:59:05

### 26dB Bandwidth Plot on Channel 251 (848.8 MHz)

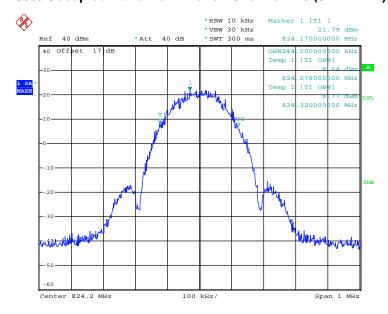


Date: 2.APR.2014 10:55:31

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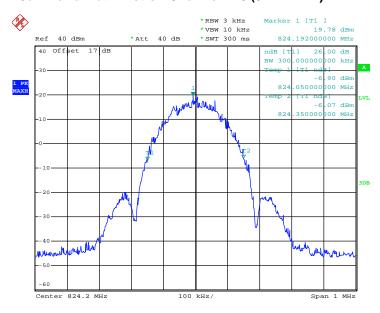
Band: GSM 850 Test Mode: EDGE class 8 Link (8PSK)

### 99% Occupied Bandwidth Plot on Channel 128 (824.2 MHz)



Date: 2.APR.2014 21:08:45

# 26dB Bandwidth Plot on Channel 128 (824.2 MHz)

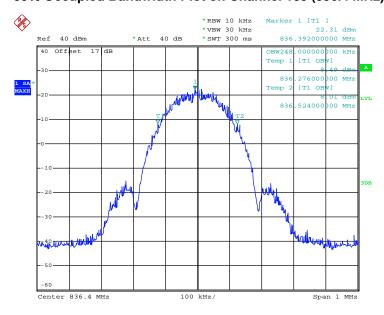


Date: 2.APR.2014 21:00:24

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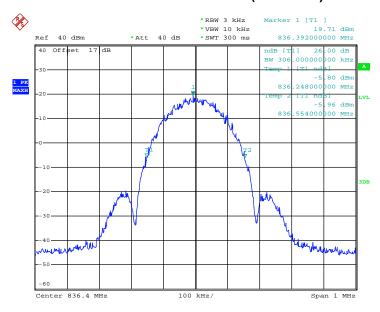


### 99% Occupied Bandwidth Plot on Channel 189 (836.4 MHz)



Date: 2.APR.2014 21:05:36

### 26dB Bandwidth Plot on Channel 189 (836.4 MHz)



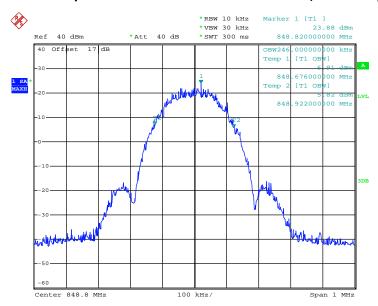
Date: 2.APR.2014 20:59:07

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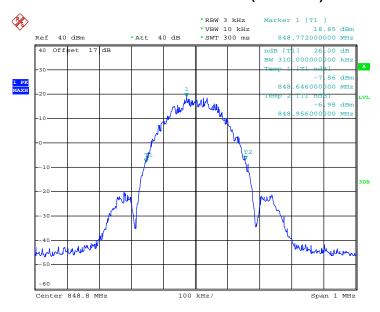
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Date: 2.APR.2014 21:04:01

### 26dB Bandwidth Plot on Channel 251 (848.8 MHz)



Date: 2.APR.2014 21:01:44

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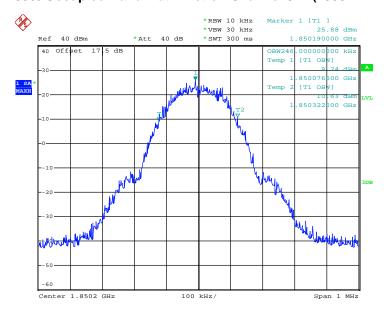


# FCC RF Test Report

Band: GSM 1900 Test Mode: GSM Link (GMSK)

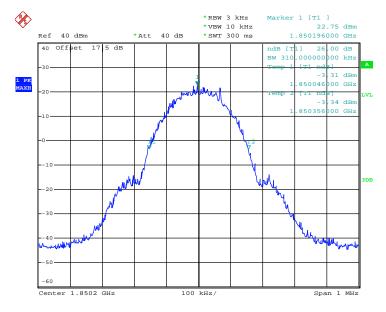
### 99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)

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Date: 2.APR.2014 11:47:39

### 26dB Bandwidth Plot on Channel 512 (1850.2 MHz)



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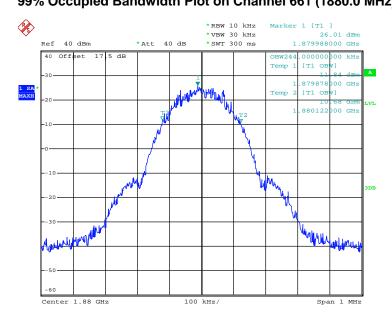
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Date: 2.APR.2014 11:40:50

TEL: 86-755-3320-2398 FCC ID: YHLBLUPUREXL

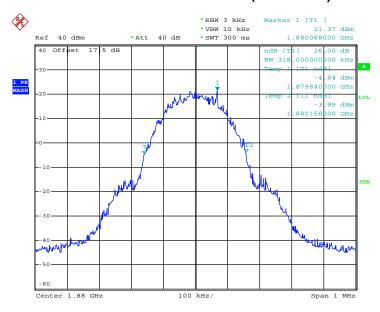


# 99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 2.APR.2014 11:46:30

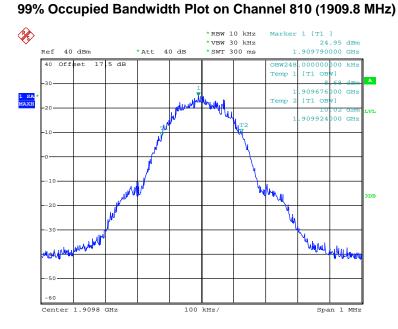
#### 26dB Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 2.APR.2014 11:38:00

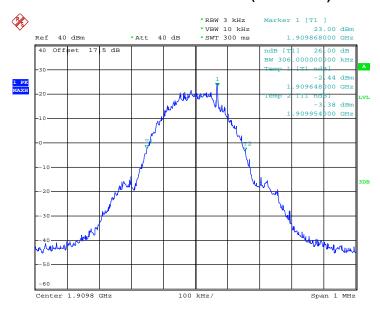
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Date: 2.APR.2014 11:44:39

#### 26dB Bandwidth Plot on Channel 810 (1909.8 MHz)

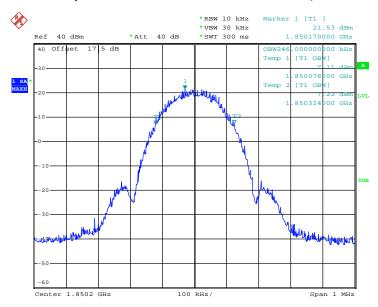


Date: 2.APR.2014 11:42:49

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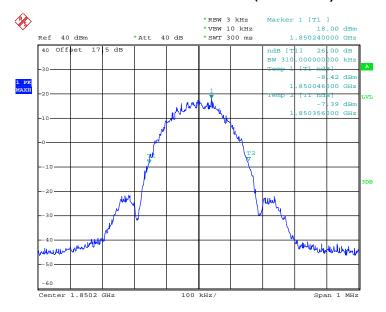
Band: GSM 1900 Test Mode: EDGE class 8 Link (8PSK)

#### 99% Occupied Bandwidth Plot on Channel 512 (1850.2 MHz)



Date: 3.APR.2014 00:25:43

#### 26dB Bandwidth Plot on Channel 512 (1850.2 MHz)

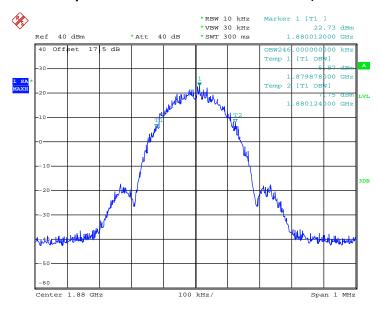


Date: 2.APR.2014 21:41:07

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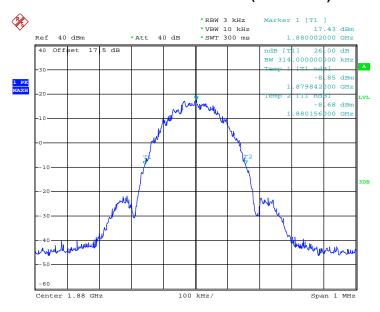


#### 99% Occupied Bandwidth Plot on Channel 661 (1880.0 MHz)



Date: 2.APR.2014 21:48:51

#### 26dB Bandwidth Plot on Channel 661 (1880.0 MHz)

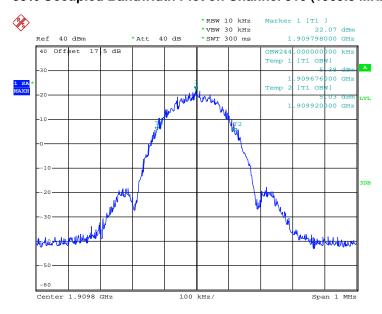


Date: 2.APR.2014 21:39:23

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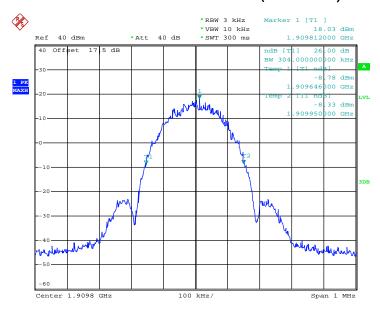


#### 99% Occupied Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 2.APR.2014 21:46:50

#### 26dB Bandwidth Plot on Channel 810 (1909.8 MHz)



Date: 2.APR.2014 21:44:03

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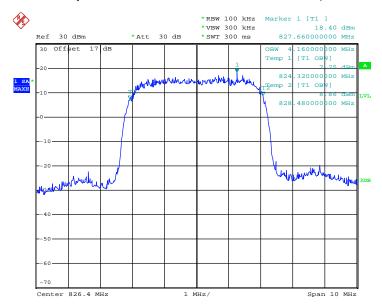
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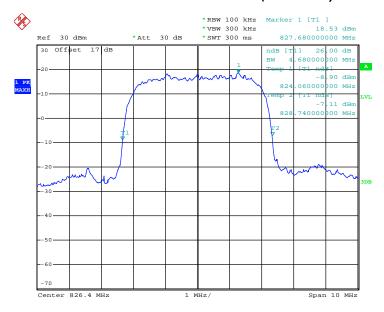
Band: WCDMA Band V Test Mode: RMC 12.2Kbps Link (QPSK)

#### 99% Occupied Bandwidth Plot on Channel 4132 (826.4 MHz)



Date: 2.APR.2014 22:08:13

#### 26dB Bandwidth Plot on Channel 4132 (826.4 MHz)

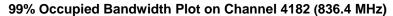


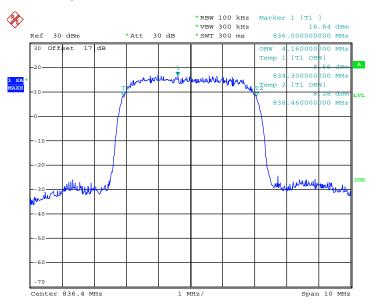
Date: 2.APR.2014 22:03:55

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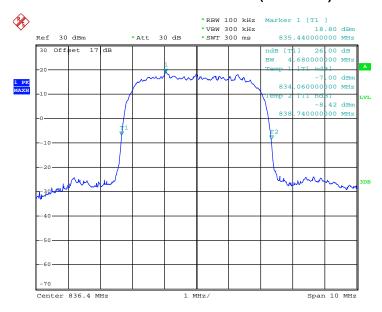
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Date: 2.APR.2014 22:10:28

#### 26dB Bandwidth Plot on Channel 4182 (836.4 MHz)



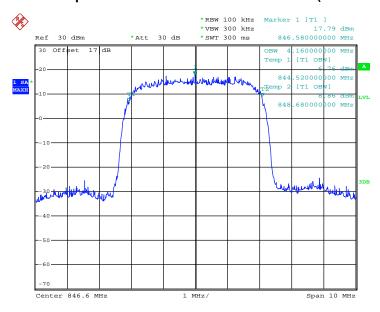
Date: 2.APR.2014 22:02:46

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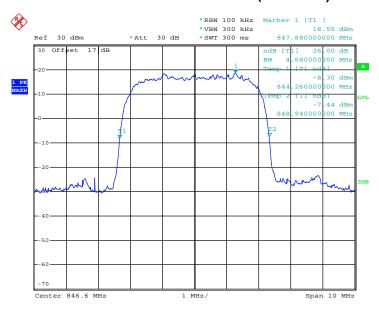
# Report No. : FG431805

#### 99% Occupied Bandwidth Plot on Channel 4233 (846.6 MHz)



Date: 2.APR.2014 22:06:28

#### 26dB Bandwidth Plot on Channel 4233 (846.6 MHz)



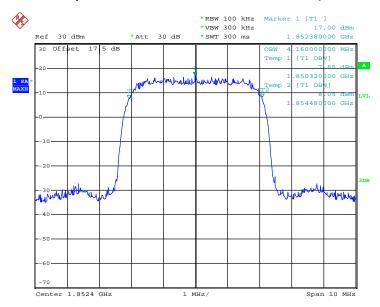
Date: 2.APR.2014 22:04:50

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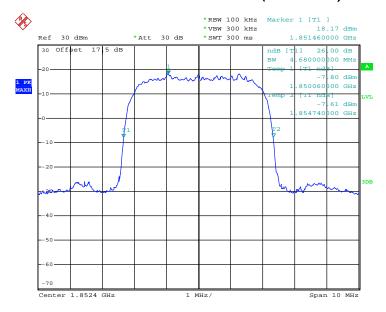
Band: WCDMA Band II Test Mode: RMC 12.2Kbps Link (QPSK)

#### 99% Occupied Bandwidth Plot on Channel 9262 (1852.4 MHz)



Date: 2.APR.2014 22:39:01

#### 26dB Bandwidth Plot on Channel 9262 (1852.4 MHz)



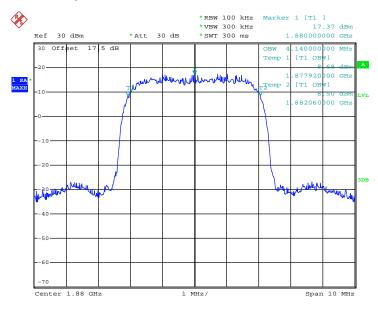
Date: 2.APR.2014 22:33:46

TEL: 86-755-3320-2398 FCC ID: YHLBLUPUREXL Page Number : 45 of 97 Report Issued Date: Apr. 28, 2014 Report Version : Rev. 01



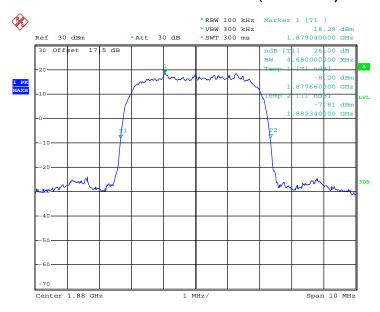
#### **Report No.: FG431805**

#### 99% Occupied Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 2.APR.2014 22:41:09

#### 26dB Bandwidth Plot on Channel 9400 (1880.0 MHz)



Date: 2.APR.2014 22:31:52

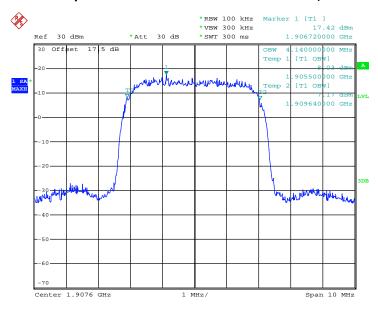
TEL: 86-755-3320-2398 FCC ID: YHLBLUPUREXL

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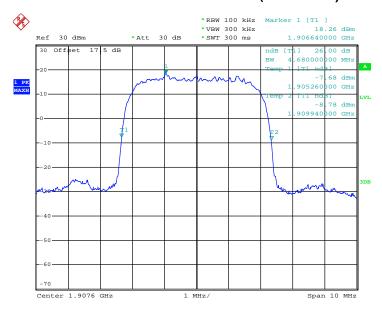
Report No. : FG431805

#### 99% Occupied Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 2.APR.2014 22:37:07

#### 26dB Bandwidth Plot on Channel 9538 (1907.6 MHz)



Date: 2.APR.2014 22:35:20

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3.5 Band Edge Measurement

#### 3.5.1 Description of Band Edge Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

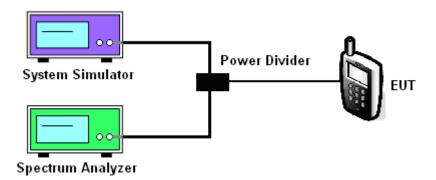
### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

- 1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
   The path loss was compensated to the results for each measurement.
- 3. The band edges of low and high channels for the highest RF powers were measured.
- 4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 5. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
  - = P(W) [43 + 10log(P)] (dB)
  - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
  - = -13dBm.

#### 3.5.4 Test Setup



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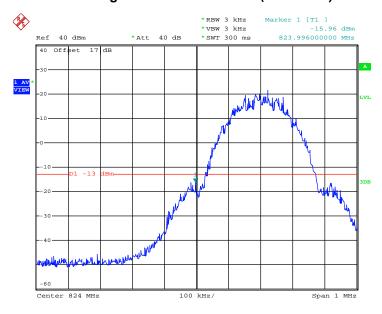
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3.5.5 Test Result (Plots) of Conducted Band Edge

Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-15.76dBm	Measurement Value :	-15.96dBm

#### Lower Band Edge Plot on Channel 128 (824.2 MHz)



Date: 2.APR.2014 11:05:50

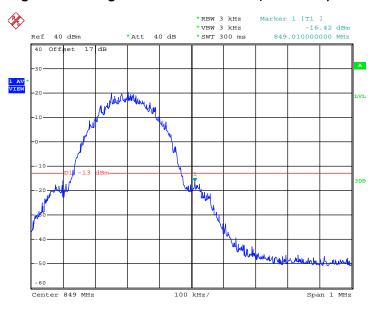
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM850	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-16.22dBm	Measurement Value :	-16.42dBm

#### Higher Band Edge Plot on Channel 251 (848.8 MHz)



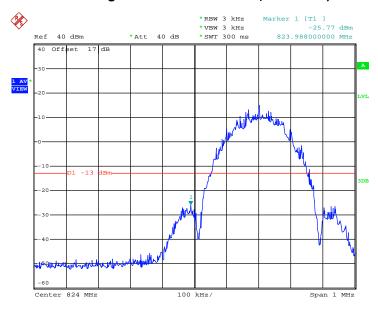
Date: 2.APR.2014 11:07:07

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM850	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-25.63dBm	Measurement Value :	-25.77dBm

#### Lower Band Edge Plot on Channel 128 (824.2 MHz)



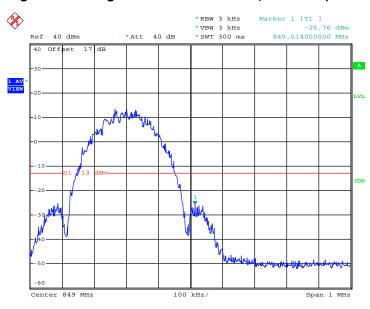
Date: 2.APR.2014 21:10:43

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM850	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.14dB	Maximum 26dB Bandwidth :	0.310MHz
Band Edge :	-25.62dBm	Measurement Value :	-25.76dBm

#### Higher Band Edge Plot on Channel 251 (848.8 MHz)



Date: 2.APR.2014 21:11:58

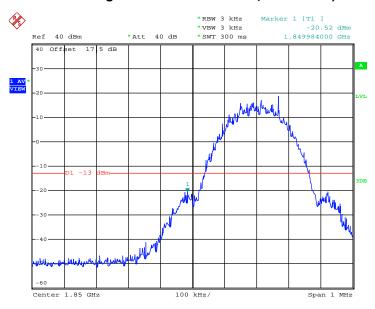
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.25dB	Maximum 26dB Bandwidth :	0.318MHz
Band Edge :	-20.27dBm	Measurement Value :	-20.52dBm

#### Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 2.APR.2014 11:48:53

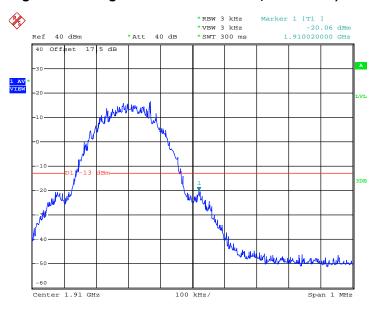
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	GSM Link (GMSK)
Correction Factor :	0.25dB	Maximum 26dB Bandwidth :	0.318MHz
Band Edge :	-19.81dBm	Measurement Value :	-20.06dBm

#### Higher Band Edge Plot on Channel 810 (1909.8 MHz)



Date: 2.APR.2014 11:51:05

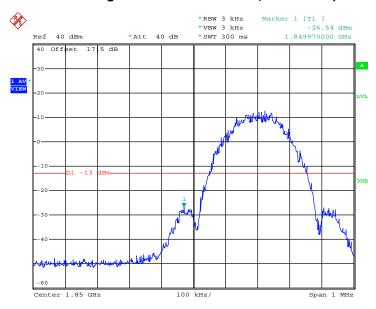
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	GSM1900	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-26.34dBm	Measurement Value :	-26.54dBm

**Report No.: FG431805** 

#### Lower Band Edge Plot on Channel 512 (1850.2 MHz)



Date: 2.APR.2014 21:52:18

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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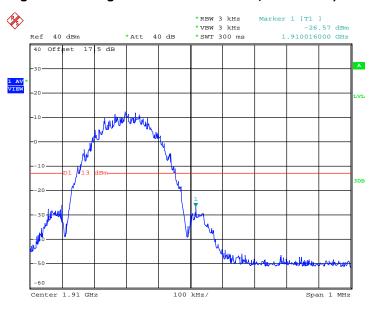
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Report Issued Date: Apr. 28, 2014

TEL: 86-755-3320-2398 FCC ID: YHLBLUPUREXL

Band :	GSM1900	Test Mode :	EDGE class 8 Link (8PSK)
Correction Factor :	0.20dB	Maximum 26dB Bandwidth :	0.314MHz
Band Edge :	-26.37dBm	Measurement Value :	-26.57dBm

#### Higher Band Edge Plot on Channel 810 (1909.8 MHz)



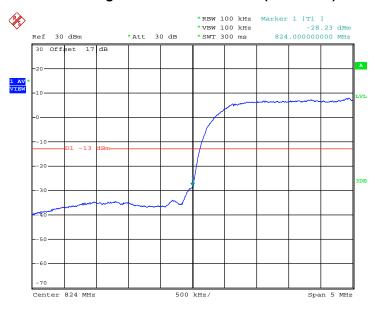
Date: 2.APR.2014 21:53:50

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-31 53dBm	Measurement Value :	-28 23dBm

#### Lower Band Edge Plot on Channel 4132 (826.4 MHz)



Date: 2.APR.2014 23:29:34

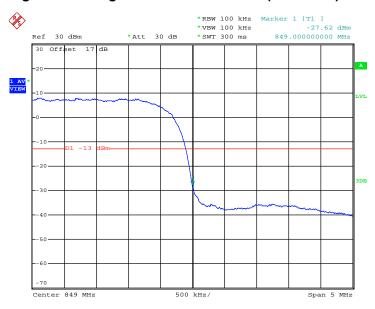
- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band V	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth:	4.680MHz
Band Edge :	-30.92dBm	Measurement Value :	-27.62dBm

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#### Higher Band Edge Plot on Channel 4233 (846.6 MHz)



Date: 2.APR.2014 23:30:29

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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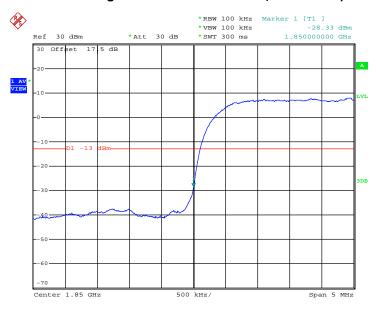
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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
<b>Correction Factor:</b>	-3.30dB	Maximum 26dB Bandwidth :	4.680MHz
Band Edge :	-31.63dBm	Measurement Value :	-28.33dBm

#### Lower Band Edge Plot on Channel 9262 (1852.4 MHz)



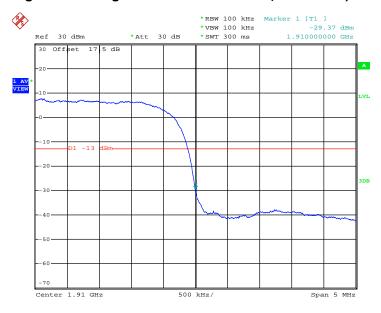
Date: 2.APR.2014 22:43:28

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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Band :	WCDMA Band II	Test Mode :	RMC 12.2Kbps Link (QPSK)
Correction Factor :	-3.30dB	Maximum 26dB Bandwidth:	4.680MHz
Band Edge :	-32.67dBm	Measurement Value :	-29.37dBm

#### Higher Band Edge Plot on Channel 9538 (1907.6 MHz)



Date: 2.APR.2014 22:44:05

- 1. Correction Factor(dB)= 10log(1% Emission BW/RBW)
- 2. Band Edge= Measurement Value + Correction Factor(dB)

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## 3.6 Conducted Spurious Emission Measurement

#### 3.6.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

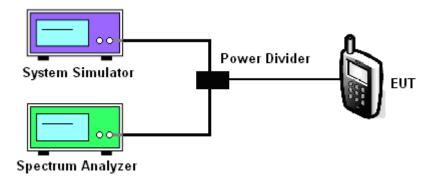
### 3.6.2 Measuring Instruments

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

#### 3.6.3 Test Procedures

- 1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
   The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
  - = P(W) [43 + 10log(P)] (dB)
  - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
  - = -13dBm.

#### 3.6.4 Test Setup



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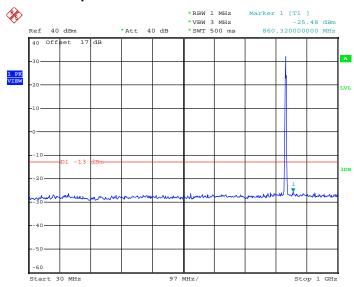


3.6.5 Test Result (Plots) of Conducted Spurious Emission

Band :	GSM850	Channel:	CH189
Test Mode :	GSM Link (GMSK)	Frequency:	836.4 MHz

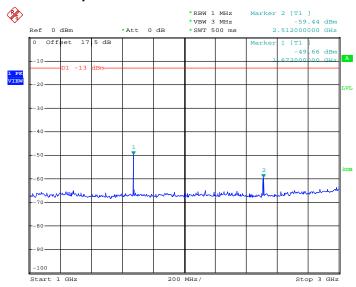
#### Conducted Spurious Emission Plot between 30MHz ~ 1GHz

**Report No.: FG431805** 



Date: 2.APR.2014 11:11:47

#### Conducted Spurious Emission Plot between 1GHz ~ 3GHz



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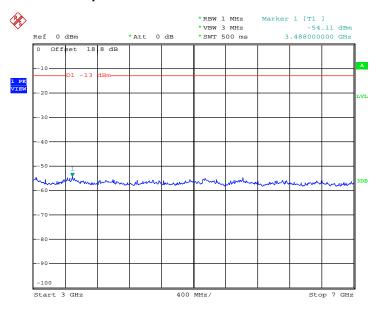
: Rev. 01

Date: 2.APR.2014 11:19:52

TEL: 86-755-3320-2398 FCC ID: YHLBLUPUREXL

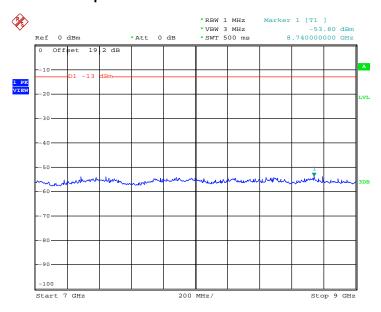






Date: 2.APR.2014 11:21:23

#### Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 2.APR.2014 11:23:02

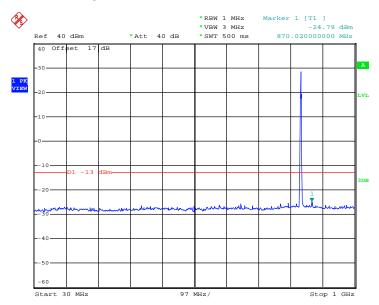
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# FCC RF Test Report

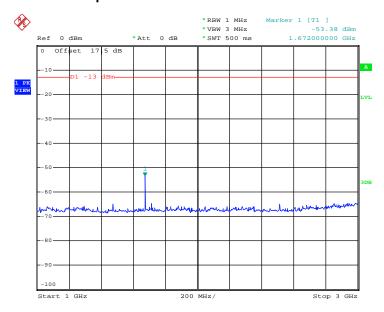
Band :	GSM850	Channel:	CH189
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	836.4 MHz

#### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 2.APR.2014 21:14:09

#### Conducted Spurious Emission Plot between 1GHz ~ 3GHz

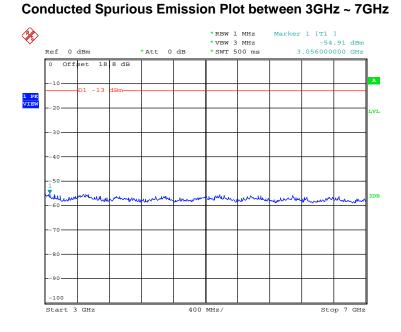


Date: 2.APR.2014 21:18:47

TEL: 86-755-3320-2398 FCC ID: YHLBLUPUREXL Page Number : 64 of 97
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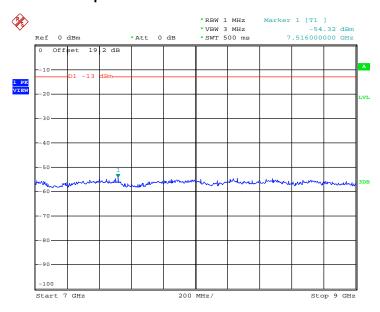


**Report No.: FG431805** 



Date: 2.APR.2014 21:20:22

#### Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 2.APR.2014 21:21:09

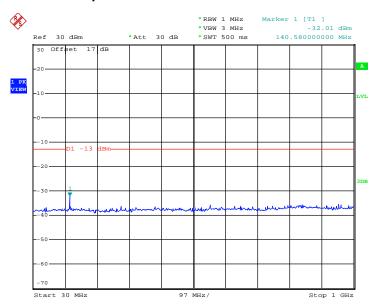
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# FCC RF Test Report

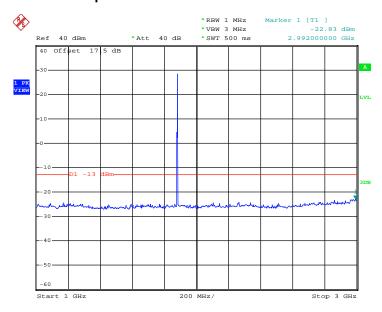
Band :	GSM1900	Channel:	CH661
Test Mode :	GSM Link (GMSK)	Frequency:	1880.0 MHz

#### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 2.APR.2014 11:34:29

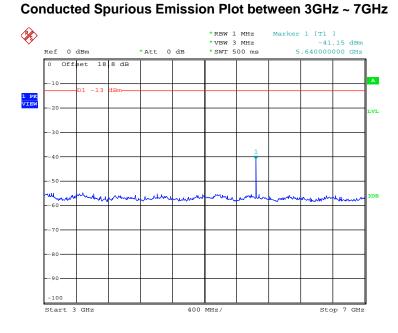
#### Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 2.APR.2014 11:35:55

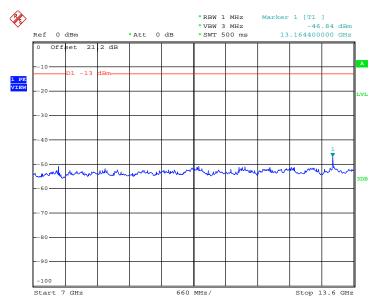
TEL: 86-755-3320-2398 FCC ID: YHLBLUPUREXL Page Number : 66 of 97
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Date: 2.APR.2014 11:29:58

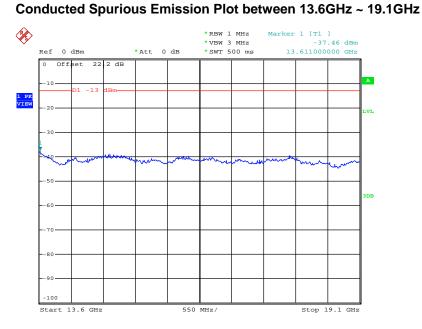
# Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 2.APR.2014 11:31:09

TEL: 86-755-3320-2398 FCC ID: YHLBLUPUREXL Page Number : 67 of 97
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Date: 2.APR.2014 11:32:43

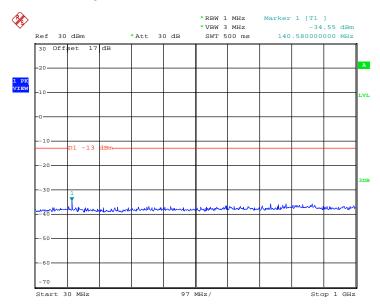
TEL: 86-755-3320-2398 FCC ID : YHLBLUPUREXL Page Number : 68 of 97 Report Issued Date: Apr. 28, 2014 : Rev. 01 Report Version



# FCC RF Test Report

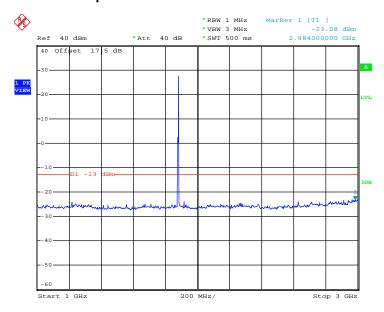
Band :	GSM1900	Channel:	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency:	1880.0 MHz

#### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 2.APR.2014 21:36:39

#### Conducted Spurious Emission Plot between 1GHz ~ 3GHz



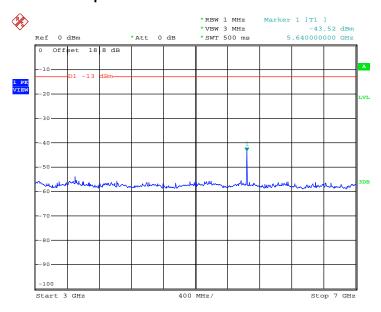
Date: 2.APR.2014 21:35:26

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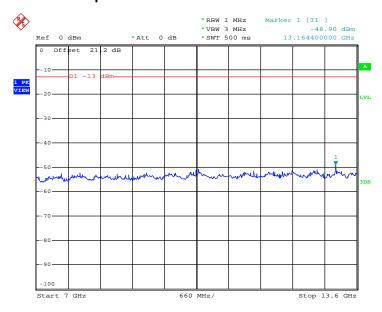
Report No. : FG431805

#### Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 2.APR.2014 21:29:58

# Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



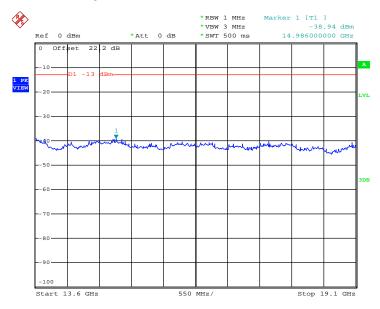
Date: 2.APR.2014 21:26:00

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#### Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



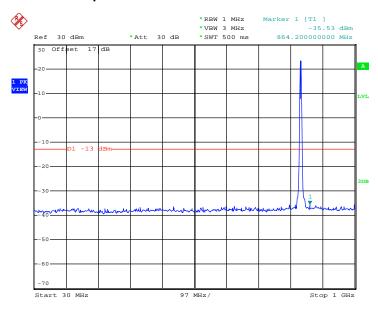
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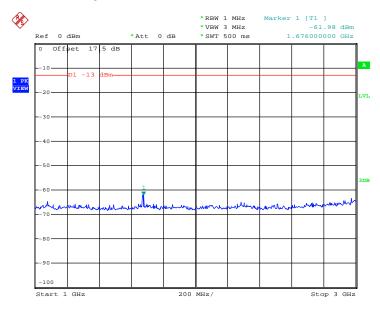
Band :	WCDMA Band V	Channel:	CH4182
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	836.4 MHz

#### Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 2.APR.2014 22:13:20

#### Conducted Spurious Emission Plot between 1GHz ~ 3GHz

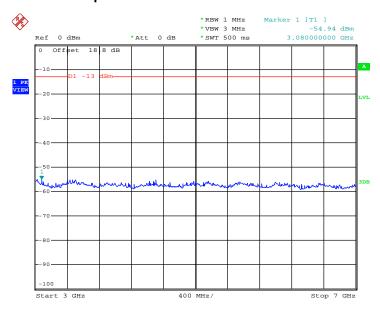


Date: 2.APR.2014 22:17:23

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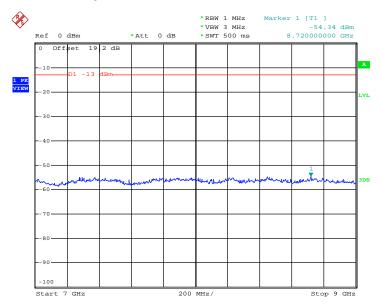


### Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 2.APR.2014 22:18:20

### Conducted Spurious Emission Plot between 7GHz ~ 9GHz



Date: 2.APR.2014 22:18:56

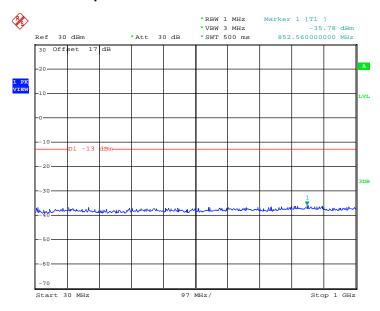
TEL: 86-755-3320-2398 FCC ID: YHLBLUPUREXL Page Number : 73 of 97
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Band :	WCDMA Band II	Channel:	CH9400
Test Mode :	RMC 12.2Kbps Link (QPSK)	Frequency:	1880.0 MHz

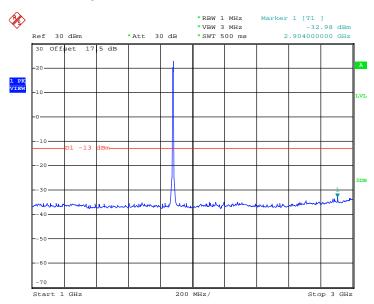
#### Conducted Spurious Emission Plot between 30MHz ~ 1GHz

**Report No.: FG431805** 



Date: 2.APR.2014 22:29:45

### Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Page Number

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Report Issued Date : Apr. 28, 2014

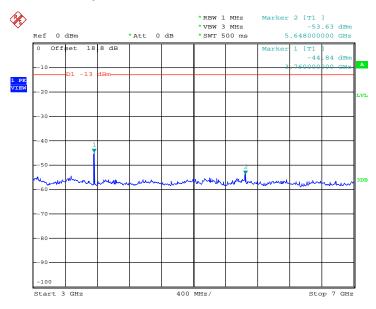
: Rev. 01

Date: 2.APR.2014 22:28:44



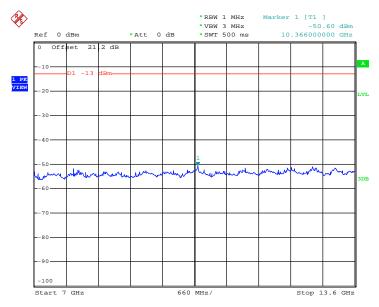
Report No.: FG431805

### Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 2.APR.2014 22:26:27

### Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



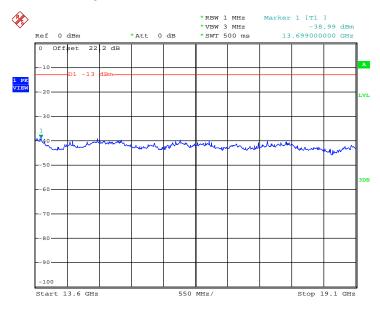
Date: 2.APR.2014 22:23:44

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### Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 2.APR.2014 22:22:49

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### 3.7 Field Strength of Spurious Radiation Measurement

#### 3.7.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### 3.7.2 Measuring Instruments

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

#### 3.7.3 Test Procedures

- 1. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11.ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)
  - = P(W) [43 + 10log(P)] (dB)
  - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
  - = -13dBm.

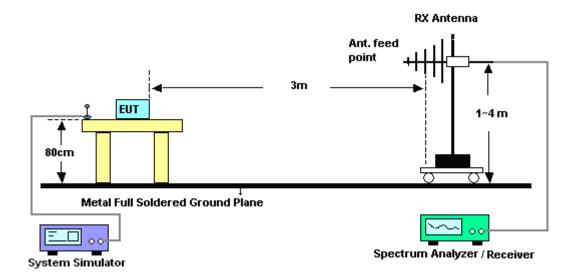
FCC ID: YHLBLUPUREXL



Report No. : FG431805

### 3.7.4 Test Setup

#### For radiated emissions from 30MHz to 1GHz



#### For radiated emissions above 1GHz

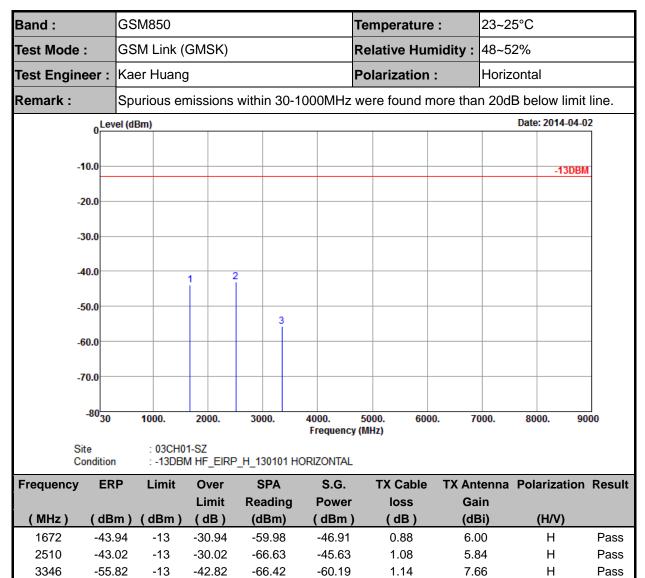


SPORTON INTERNATIONAL (SHENZHEN) INC.

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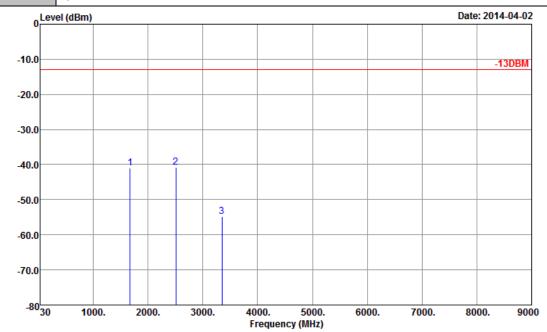


### 3.7.5 Test Result of Field Strength of Spurious Radiated



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Band :	GSM850	Temperature :	23~25°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%
Test Engineer :	Kaer Huang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz	were found more tha	n 20dB below limit line.



Site

: 03CH01-SZ : -13DBM HF\_EIRP\_V\_130101 VERTICAL Condition

Frequency	ERP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
1672	-40.93	-13	-27.93	-54.55	-43.90	0.88	6.00	V	Pass
2510	-40.74	-13	-27.74	-62.86	-43.35	1.08	5.84	V	Pass
3346	-54.82	-13	-41.82	-66.65	-59.19	1.14	7.66	V	Pass

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Band :	GSM8	<i>1</i> 850						Ter	nperatur	е:	23~25°C		
Test Mode :	EDGE	class	8 Link	(8PS	K)			Re	lative Hu	midity:	48~52%	, )	
Test Engineer :	Kaer I	aer Huang						Polarization : Horizontal					
Remark :	Spurio	ous em	nissions	withi	in 3	0-100	0MHz	we	re found	more tha	n 20dB b	elow limit	line.
0 Lev	vel (dBm)										Da	nte: 2014-04-02	2
-10.0												-13DBM	
-20.0													_
-30.0													
-40.0			:	2									
-50.0					3	3							
-60.0													-
-70.0													
-80 <mark>30</mark>	10	00.	2000.	30	00.		00. requency	50( (MF		00. 70	000.	8000. 900	00
Site Condition		: 03CH01-SZ : -13DBM HF_EIRP_H_130101 HORIZONTAL											

				_						
Fre	quency	ERP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
				Limit	Reading	Power	loss	Gain		
(	MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
	1672	-51.33	-13	-38.33	-65.52	-54.30	0.88	6.00	Н	Pass
2	2510	-43.40	-13	-30.40	-66.94	-46.01	1.08	5.84	Н	Pass
	3346	-56 37	-13	-43 37	-66 97	-60 74	1 14	7 66	н	Pass

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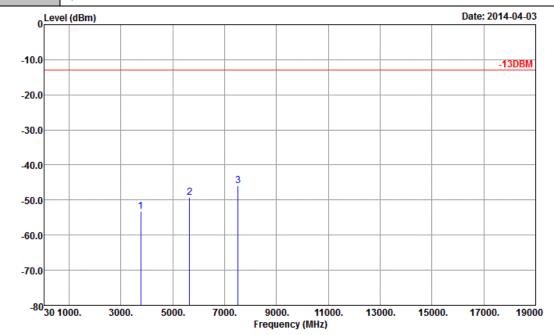
Band :	GSM850				Tempe	erature :	23~25°C	;			
Test Mode :	EDGE cla	ss 8 Link	(8PSK)		Relativ	e Humidity	: 48~52%	48~52%			
Test Engineer :	Kaer Huar	ng			Polariz	zation :	Vertical				
Remark :	Spurious e	emissions	within 3	0-1000MH	lz were fo	ound more th	an 20dB be	elow limit line.			
0 Le	vel (dBm)	(dBm) Date: 2014-04-02									
-10.0								-13DBM			
-20.0											
-30.0											
-40.0		:	2								
-50.0		1		3 							
-60.0											
-70.0											
-80 <mark>30</mark>	1000.	2000.	3000.	4000. Freque	5000. ncy (MHz)	6000.	7000. 80	9000 9000			
Site Conditio		H01-SZ BM HF_EIRF	P_V_13010	1 VERTICAL							
Frequency EF	RP Limit	Over Limit	SPA Readir				ntenna Po	larization Res			

Frequency	ERP	Limit	Over	SPA	S.G.	TX Cable		Polarization	Result
(MHz)	(dBm)	(dBm)	Limit ( dB )	Reading (dBm)	Power ( dBm )	loss ( dB )	Gain (dBi)	(H/V)	
1672	-53.62	-13	-40.62	-65.08	-56.59	0.88	6.00	V	Pass
2510	-44.49	-13	-31.49	-65.88	-47.10	1.08	5.84	V	Pass
3346	-54.19	-13	-41.19	-66.02	-58.56	1.14	7.66	V	Pass

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FCC RF Test Report Report No. : FG431805

Band :	GSM1900	Temperature :	23~25°C					
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Horizontal					
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.							



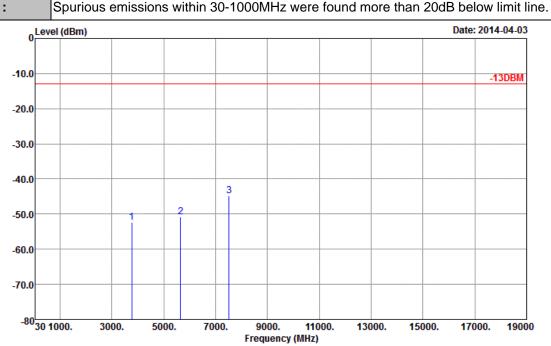
Site

: 03CH01-SZ : -13DBM HF\_EIRP\_H\_130101 HORIZONTAL Condition

Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3760	-54.40	-13	-41.40	-66.55	-61.14	1.28	8.02	Н	Pass
5640	-49.45	-13	-36.45	-67.44	-57.87	1.58	10.00	Н	Pass
7520	-46.27	-13	-33.27	-68.21	-56.59	1.78	12.10	Н	Pass

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Band :	GSM1900	Temperature :	23~25°C					
Test Mode :	GSM Link (GMSK)	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Vertical					
Domark .	purious emissions within 20 1000MHz were found more than 20dP helew limit line							



Site

: 03CH01-SZ : -13DBM HF\_EIRP\_V\_130101 VERTICAL Condition

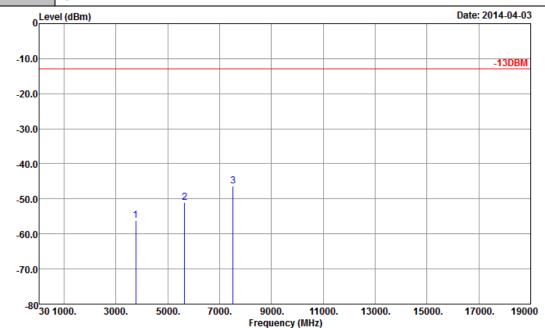
Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3760	-53.24	-13	-40.24	-68.27	-59.98	1.28	8.02	V	Pass
5640	-51.74	-13	-38.74	-68.82	-60.16	1.58	10	V	Pass
7520	-45.98	-13	-32.98	-68.23	-56.30	1.78	12.1	V	Pass

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FCC RF Test Report Report No.: FG431805

Band :	GSM1900	Temperature :	23~25°C					
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Horizontal					
Romark ·	Spurious emissions within 30-1000MHz were found more than 20dB below limit line							

**Remark :** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site : 03CH01-SZ

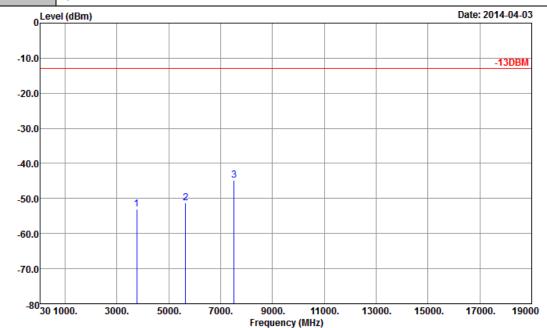
Condition : -13DBM HF\_EIRP\_H\_130101 HORIZONTAL

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3760	-56.11	-13	-43.11	-68.26	-62.85	1.28	8.02	Н	Pass
5640	-50.95	-13	-37.95	-68.94	-59.37	1.58	10.00	Н	Pass
7520	-46.28	-13	-33.28	-68.22	-56.60	1.78	12.10	Н	Pass

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Band :	GSM1900	Temperature :	23~25°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	48~52%
Test Engineer :	Kaer Huang	Polarization :	Vertical
_			

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site : 03CH01-SZ

Condition : -13DBM HF\_EIRP\_V\_130101 VERTICAL

Frequency	EIRP	Limit	Over	SPA	S.G.	TX Cable	TX Antenna	Polarization	Result
			Limit	Reading	Power	loss	Gain		
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3760	-53.14	-13	-40.14	-68.17	-59.88	1.28	8.02	V	Pass
5640	-51.24	-13	-38.24	-68.32	-59.66	1.58	10	V	Pass
7520	-44.83	-13	-31.83	-67.08	-55.15	1.78	12.1	V	Pass

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Band :	WCDMA Band V Temperature: 23~25°				23~25°C			
Test Mode :	RMC 12.	2Kbps Li	ink (QPS	K)	Relative Humidity	<b>1:</b> 48~52%		
Test Engineer :	Kaer Hua	ang			Polarization :	Horizontal		
Remark :	Spurious	emission	ns within	30-1000MHz	were found more t	han 20dB below limit I	ine.	
0 Level (dBm) Date: 2014-04-0								
-10.0						-13DBM		
-20.0								
-30.0								
-40.0		1	2					
-50.0				3				
-60.0								
-70.0								
-80 <sub>30</sub>	1000.	2000.	3000.	4000.	5000. 6000.	7000. 8000. 900	) )0	

Site

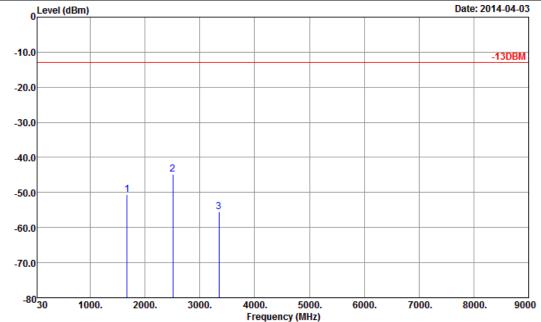
: 03CH01-SZ : -13DBM HF\_EIRP\_H\_130101 HORIZONTAL Condition

Frequency	ERP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	( dB )	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
1672	-46.79	-13	-33.79	-62.47	-49.76	0.88	6.00	Н	Pass
2510	-41.16	-13	-28.16	-65.24	-43.77	1.08	5.84	Н	Pass
3346	-56.37	-13	-43.37	-66.97	-60.74	1.14	7.66	Н	Pass

Frequency (MHz)

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Band :	WCDMA Band V	23~25°C						
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%					
Test Engineer :	Kaer Huang	Polarization :	Vertical					
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.							



Site : 03CH01-SZ

Condition : -13DBM HF\_EIRP\_V\_130101 VERTICAL

Frequency	ERP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
1672	-50.56	-13	-37.56	-62.89	-53.53	0.88	6.00	V	Pass
2510	-44.83	-13	-31.83	-66.22	-47.44	1.08	5.84	V	Pass
3346	-55.55	-13	-42.55	-67.38	-59.92	1.14	7.66	V	Pass

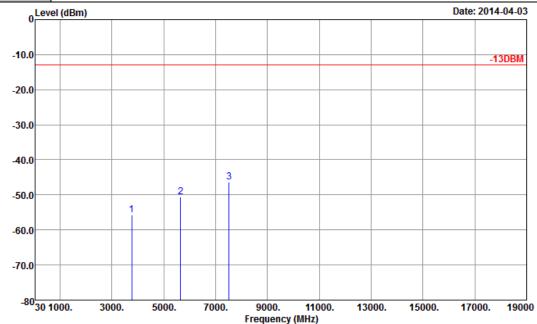
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FCC RF Test Report Report No.: FG431805

Band :	WCDMA Band II	Temperature :	23~25°C				
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%				
Test Engineer :	Kaer Huang	Polarization :	Horizontal				
Pomark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line						

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Date: 2014-04-03



Site : 03CH01-SZ

Condition : -13DBM HF\_EIRP\_H\_130101 HORIZONTAL

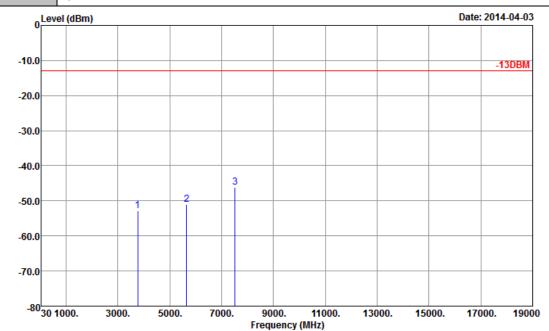
Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3760	-55.72	-13	-42.72	-67.87	-62.46	1.28	8.02	Н	Pass
5640	-50.49	-13	-37.49	-68.48	-58.91	1.58	10.00	Н	Pass
7520	-46.39	-13	-33.39	-68.33	-56.71	1.78	12.10	Н	Pass

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FCC RF Test Report Report No.: FG431805

Band :	WCDMA Band II	Temperature :	23~25°C				
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	48~52%				
Test Engineer :	Kaer Huang	Polarization :	Vertical				
Domork .	Churiaya amigaiana within 20 1000MHz ware found more than 20dD helaw limit line						

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Site : 03CH01-SZ

Condition : -13DBM HF\_EIRP\_V\_130101 VERTICAL

Frequency	EIRP	Limit	Over Limit	SPA Reading	S.G. Power	TX Cable loss	TX Antenna Gain	Polarization	Result
(MHz)	(dBm)	(dBm)	(dB)	(dBm)	(dBm)	( dB )	(dBi)	(H/V)	
3760	-52.81	-13	-39.81	-67.84	-59.55	1.28	8.02	V	Pass
5640	-51.02	-13	-38.02	-68.28	-59.44	1.58	10	V	Pass
7520	-46.05	-13	-33.05	-68.30	-56.37	1.78	12.1	V	Pass

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### 3.8 Frequency Stability Measurement

#### 3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

Report No.: FG431805

### 3.8.2 Measuring Instruments

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

### 3.8.3 Test Procedures for Temperature Variation

- 1. The EUT was set up in the thermal chamber and connected with the system simulator.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### 3.8.4 Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.

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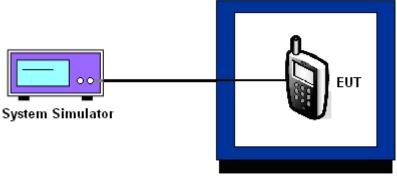
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3. The variation in frequency was measured for the worst case.



# 3.8.5 Test Setup



Thermal Chamber

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# 3.8.6 Test Result of Temperature Variation

Band :	GSM 850	Channel:	189
Limit (ppm) :	2.5	Frequency:	836.4 MHz

	GS	SM	EDGE		
Temperature (°C)	·		Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-14	-0.02	-13	-0.02	
-20	-12	-0.01	-12	-0.01	
-10	-13	-0.02	-11	-0.01	
0	-11	-0.01	-12	-0.01	
10	-14	-0.02	-10	-0.01	PASS
20	-12	-0.01	-12	-0.01	
30	-13	-0.02	-12	-0.01	
40	-15	-0.02	-13	-0.02	
50	-16	-0.02	-14	-0.02	

Band :	GSM 1900	Channel:	661
Limit (ppm):	2.5	Frequency:	1880.0 MHz

	GSM		EDGE		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-19	-0.01	-33	-0.02	
-20	-18	-0.01	-31	-0.02	
-10	-20	-0.01	-26	-0.01	
0	-17	-0.01	-29	-0.02	
10	-19	-0.01	-27	-0.01	PASS
20	-19	-0.01	-25	-0.01	
30	-18	-0.01	-32	-0.02	
40	-20	-0.01	-39	-0.02	
50	-22	-0.01	-45	-0.02	

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Band :	WCDMA Band V	Channel:	4182
Limit (ppm) :	2.5	Frequency:	836.4 MHz

	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-3	-0.01	
-20	-3	-0.01	
-10	2	+0.01	
0	-2	-0.01	
10	3	+0.01	PASS
20	-3	-0.01	
30	-3	-0.01	
40	3	+0.01	
50	-3	-0.01	

Band :	WCDMA Band II	Channel:	9400
Limit (ppm):	2.5	Frequency:	1880.0 MHz

	RMC 12		
Temperature (°C)	Freq. Dev. (Hz)	Deviation (ppm)	Result
-30	-11	-0.01	
-20	-10	-0.01	
-10	-11	-0.01	
0	-10	-0.01	
10	-9	-0.01	PASS
20	-10	-0.01	
30	-10	-0.01	
40	-11	-0.01	
50	-11	-0.01	

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3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
		3.7	-12	-0.01		
	GSM	BEP	-15	-0.02		
GSM 850		4.2	-13	-0.02		
CH189		3.7	-12	-0.01		
	EDGE class 8	BEP	-13	-0.02		
		4.2	-11	-0.01		
	GSM	3.7	-19	-0.01	-0.01	
		BEP	-22	-0.01	2.5	PASS
GSM 1900		4.2	-20	-0.01		
CH661	EDGE class 8	3.7	-25	-0.01		
		BEP	-29	-0.02		
		4.2	-26	-0.01		
		3.7	-3	-0.01		
WCDMA Band V CH4182	RMC 12.2Kbps	BEP	-2	-0.01		
	12.2.30	4.2	-3	-0.01		
		3.7	-10	-0.01		
WCDMA Band II CH9400	RMC 12.2Kbps	BEP	-11	-0.01		
<b>3</b> . 10 100		4.2	-9	-0.01		

#### Note:

- 1. Normal Voltage = 3.7V.
- 2. Battery End Point (BEP) = 3.5 V.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Jun. 17, 2013	Mar. 05, 2014~ Apr. 03, 2014	Jun. 16, 2014	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSP30	101400	9kHz~30GHz	Mar. 03, 2014	Mar. 05, 2014~ Apr. 03, 2014	Mar. 02, 2015	Conducted (TH01-SZ)
Thermal Chamber	Hongzhan	LP-150U	HD20120425	-40℃~150℃	Feb. 21, 2014	Mar. 05, 2014~ Apr. 03, 2014	Feb. 20, 2015	Conducted (TH01-SZ)
Signal Analyzer	R&S	FSV40	101078	10Hz~40GHz	Jun. 17, 2013	Apr. 02, 2014~ Apr. 03, 2014	Jun. 16, 2014	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	23188	30MHz~2GHz	Oct. 26, 2013	Mar. 05, 2014~ Apr. 03, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Apr. 02, 2014~ Apr. 03, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Double Ridged Horn Antenna	COM-POWER	AH-840	101073	18GHz~40GHz	Jan. 27, 2014	Mar. 05, 2014~ Apr. 03, 2014	Jan. 26, 2015	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz GAIN 30db	Feb. 21, 2014	Apr. 02, 2014~ Apr. 03, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Agilent	83017A	MY39501302	3Hz~26.5GHz	Mar. 03, 2014	Apr. 02, 2014~ Apr. 03, 2014	Mar. 02, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronice	EM 1000	N/A	0 ~ 360 degree	N/A	Apr. 02, 2014~ Apr. 03, 2014	N/A	Radiation (03CH01-SZ)
Antenna Mast	EM Electronice	EM 1000	N/A	1 m~4 m	N/A	Apr. 02, 2014~ Apr. 03, 2014	N/A	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSP 7	100818	9kHz~7GHz	Sep. 03, 2013	Apr. 02, 2014~ Apr. 03, 2014	Sep. 02, 2014	ERP/EIRP (OTA01-SZ)
Quad-Ridged Horn	ETS-Lindgren	3164-08	00102954	700MHz~10000MH z	NCR	Apr. 02, 2014~ Apr. 03, 2014	NCR	ERP/EIRP (OTA01-SZ)
Multi-Devices Controller	ETS-Lindgren	2090-OPT1	00108147	N/A	NCR	Apr. 02, 2014~ Apr. 03, 2014	NCR	ERP/EIRP (OTA01-SZ)
Switch Control Mainframe	Agilent	3499A	MY42005451	N/A	NCR	Apr. 02, 2014~ Apr. 03, 2014	NCR	ERP/EIRP (OTA01-SZ)

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# 5 Uncertainty of Evaluation

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

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

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