

Shenzhen Huatongwei International Inspection Co., Ltd.

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FCC REPORT

FCC ID.....: YPVITALCOMREX

Applicant's name.....: ITALCOM GROUP

Manufacturer...... SHENZHEN FISE TECHNOLOGY HOLDING CO.,LTD.

Street, Longhua Shenzhen, 518000

Test item description: Smart Phone

Trade Mark: NYX

Model/Type reference...... REX

Listed Model(s) -

Standard: FCC Part 22: PUBLIC MOBILE SERVICES

FCC Part 24: PERSONAL COMMUNICATIONS SERVICES

Date of receipt of test sample...... Apr.28, 2016

Date of testing...... Apr.29, 2016 ~ May.16, 2016

Date of issue...... May.16, 2016

Result...... Pass

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Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd

Gongming, Shenzhen, China

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1. TEST STANDARDS AND TEST DESCRIPTION

1.1. Test Standards

The tests were performed according to following standards:

FCC Part 22 (10-1-13 Edition): PRIVATE LAND MOBILE RADIO SERVICES.

FCC Part 24(10-1-13 Edition): PUBLIC MOBILE SERVICES

TIA/EIA 603 D June 2010: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

47 CFR FCC Part 15 Subpart B: - Unintentional Radiators

FCC Part 2: FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REG-ULATIONS

<u>971168 D01 Power Meas License Digital Systems v02r02:</u> provides a methodology for fully characterizing the fundamental power of wideband (> 1 MHz) digitally modulated RF signals acceptable to the FCC for demonstrating compliance for licensed transmitters.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices

1.2. Test Description

Test Item	Section in CFR 47	Result
	Part 2.1046	
RF Output Power	Part 22.913 (a)(2)	Pass
	Part 24.232 (c)	
Modulation Characteristics	Part 2.1047	Pass
	Part 2.1049	
99% & -26 dB Occupied Bandwidth	Part 22.917	Pass
	Part 24.238	
	Part 2.1051	
Spurious Emissions at Antenna Terminal	Part 22.917 (a)	Pass
	Part 24.238 (a)	
	Part 2.1053	
Field Strength of Spurious Radiation	Part 22.917 (a)	Pass
	Part 24.238 (a)	
Out of hand emission Band Edge	Part 22.917 (a)	Door
Out of band emission, Band Edge	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
Peak-Average Ratio	Part 24.232 (d)	Pass

Remark: The measurement uncertainty is not included in the test result.

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2. **SUMMARY**

2.1. Client Information

Applicant:	ITALCOM GROUP
Address: 1728Coral Way,Coral Gables,Miami,Florida,United States	
Manufacturer:	SHENZHEN FISE TECHNOLOGY HOLDING CO.,LTD.
Address:	No.6 Building, Longfu Industrial Area, Huarong Road, Dalang Street, Longhua Shenzhen, 518000

2.2. Product Description

Name of EUT	Smart Phone
Trade Mark:	NYX
Model No.:	REX
Listed Model(s):	-
IMEI :	359867070129150
Power supply:	DC 3.8V From internal battery
Adapter information:	Input:AC 100-240V 50/60Hz 0.15A Output: 5Vd.c., 1.0A
2G:	
Support Network:	GSM, GPRS, EGPRS
Support Band:	GSM850, DCS1900
Modulation:	GSM/GPRS: GMSK EGPRS:8PSK
Transmit Frequency:	GSM850: 824.20MHz-848.80MHz PCS1900: 1850.20MHz-1909.80MHz
Receive Frequency:	GSM850: 869.20MHz-893.80MHz PCS1900: 1930.20MHz-1989.80MHz
GPRS Class:	12
EGPRS Class:	12
Antenna type:	Intergal Antenna
Antenna gain:	GSM850:0.0dBi PCS1900: 0.0dBi
Hardware version:	NYX_REX_001
Software version:	REX_AMXNYX_V001R
3G:	
Operation Band:	FDD Band II and FDD Band V
Power Class:	Power Class 3
Modilation Type:	QPSK ,16QAM,64QAM
DC-HSUPA Release Version:	Not Supported
Antenna type:	Intergal Antenna
Antenna gain:	Band II: 0.0dBi, Band V: 0.0dBi

Remark: 16QAM,64QAM just for downlink.

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Test Frequency:

GSM 850		PCS1900		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
128	824.20	512	1850.20	
190	836.60	661	1880.00	
251	848.80	810	1909.80	

FDD Band II		FDD Band V		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
9262	1852.4	4132	826.40	
9400	1880.0	4183	836.60	
9538	1907.6	4233	846.60	

2.3. EUT operation mode

1. The EUT has been tested under typical operating condition. The Applicant provides software to control the EUT for staying in continous transmitting and receiving mode for testing.

2.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- O supplied by the lab

 supplied by the lab	
Length (m) :	/
Shield:	/
Detachable :	/
Manufacturer :	/
Model No. :	/

2.5. Modifications

No modifications were implemented to meet testing criteria.

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3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

Phone: 86-755-26748019 Fax: 86-755-26748089

3.2. Test Facility

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

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories

(identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Labo ratories, Date of Registration: February 28, 2015. Valid time is until February 27, 2018.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for tec hnical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until December 31, 2016.

FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection 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 FC C is maintained in our files. Registration 317478, Renewal date Jul. 18, 2014, valid time is until Jul. 18, 2017.

IC-Registration No.: 5377A&5377B

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Dec. 31, 2013, valid time is until Dec. 31, 2016.

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B on Dec.03, 2014, valid time is until Dec.03, 2017.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Aust ralian C-Tick mark as a result of our A2LA accreditation.

VCCI

The 3m Semi-

anechoic chamber (12.2m×7.95m×6.7m) of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2484. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 29, 2015.

Radiated disturbance above 1GHz measurement of Shenzhen Huatongwei International Inspection Co., Ltd. h as been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2013. Valid time is until Dec. 23, 2016.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 19, 2015.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2013. Valid time is until May 06, 2016.

DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of D NV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Di rectives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the D NV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2016.

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3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature/Tnor:	15~35°C
lative Humidity	30~60 %
Air Pressure	950-1050 hPa

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1" and TR-100028-02 "Electromagnetic compatibilityand Radio spectrum Matters (ERM);Uncertainties in the measurementof mobile radio equipment characteristics;Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Frequency stability	25 Hz	(1)
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-12.75 GHz	1.60 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emissio 1~18GHz	5.16 dB	(1)
Radiated Emissio 18-40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)
Emission Mask		(1)
Modulation Characteristic		(1)
Transmitter Frequency Behavior		(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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3.5. Equipments Used during the Test

Output Power(Conducted) & Occupied Bandwidth & Emission Bandwidth & Band Edge Compliance & Conducted Spurious Emission						
No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2015/11/2	
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2015/11/2	
3	Splitter	Mini-Circuit	ZAPD-4	400059	2015/11/2	

Frequency Stability							
No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2015/11/2		
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2015/11/2		
3	Climate Chamber	ESPEC	EL-10KA	05107008	2015/11/2		
4	Splitter	Mini-Circuit	ZAPD-4	400059	2015/11/2		

Output	Output Power (Radiated) & Radiated Spurious Emission						
No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2015/11/2		
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2015/11/2		
3	HORN ANTENNA	ShwarzBeck	9120D	1012	2015/11/2		
4	HORN ANTENNA	ShwarzBeck	9120D	1011	2015/11/2		
5	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2015/11/2		
6	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	539	2015/11/2		
7	TURNTABLE	MATURO	TT2.0		N/A		
8	ANTENNA MAST	MATURO	TAM-4.0-P		N/A		
9	EMI Test Software	Audix	E3	N/A	N/A		
10	EMI Test Receiver	Rohde&Schwarz	ESIB 26	100009	2015/11/2		
11	RF Test Panel	Rohde&Schwarz	TS / RSP	335015/0017	2015/11/2		
12	High pass filter	Compliance Direction systems	BSU-6	34202	2015/11/2		
13	Splitter	Mini-Circuit	ZAPD-4	400059	2015/11/2		
14	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2015/11/2		
15	Horn Antenna	SCHWARZBECK	BBHA9170	25842	2015/11/2		
16	Preamplifier	ShwarzBeck	BBV 9718	BBV 9718	2015/11/2		
17	Broadband Preamplifier	ShwarzBeck	BBV743	9743-0079	2015/11/2		
18	Signal Generator	Rohde&Schwarz	SMF100A	101932	2015/11/2		
19	Amplifer	Compliance Direction systems	PAP1-4060	120	2015/11/2		
20	TURNTABLE	ETS	2088	2149	2015/11/2		
21	ANTENNA MAST	ETS	2075	2346	2015/11/2		
22	HORN ANTENNA	Rohde&Schwarz	HF906	100068	2015/11/2		
23	HORN ANTENNA	Rohde&Schwarz	HF906	100039	2015/11/2		

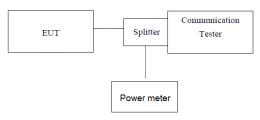
The calibration interval was one year.

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4. TEST CONDITIONS AND RESULTS

4.1. Conducted Output Power

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The transmitter output port was connected to base station.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
- 3. Set EUT at maximum power through base station.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure the maximum burst average power.

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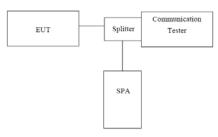
TEST RESULTS

EUT Mode	Channel	Frequency (MHz)	Power (dBm)
	128	824.20	32.48
GSM 850 (GMSK)	190	836.60	32.25
(OWOR)	251	848.80	32.47
	128	824.20	32.36
GPRS850 (GMSK,1Slot)	190	836.60	32.15
(OWOR, FOICE)	251	848.80	32.33
5000000	128	824.20	28.05
EGPRS850 (8PSK,1Slot)	190	836.60	28.14
(01 314, 13101)	251	848.80	28.04
	512	1850.20	29.47
PCS1900 (GMSK)	661	1880.00	29.58
(Gillort)	810	1909.80	29.46
	512	1850.20	29.37
GPRS1900 (GMSK,1Slot)	661	1880.00	29.15
(Givion, roloty	810	1909.80	29.46
E00004000	512	1850.20	27.14
EGPRS1900 (8PSK,1Slot)	661	1880.00	27.06
(01 311, 13101)	810	1909.80	27.32
	9262	1852.40	22.85
WCDMA Band II	9400	1880.00	22.47
	9538	1907.60	22.52
	4132	826.40	22.98
WCDMA Band V	4183	836.60	22.36
	4233	846.60	22.47

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4.2. Occupy Bandwidth

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

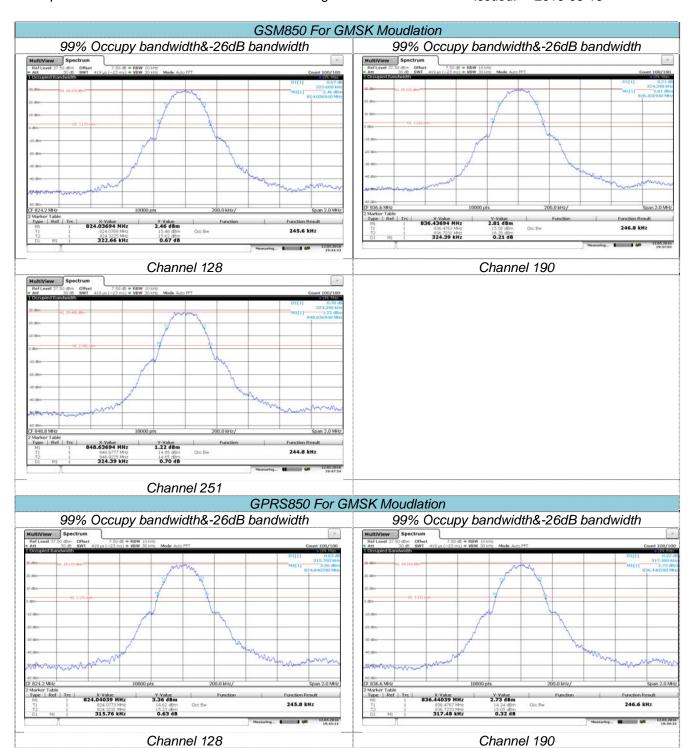
- 1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
- 2. RBW was set to about 1% of emission BW, VBW= 3 times RBW.
- 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

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TEST RESULTS

EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
	128	824.20	245.60	322.66
GSM 850 (GMSK)	190	836.60	246.80	324.39
(GWOT)	251	848.80	244.80	324.39
	128	824.20	245.80	315.76
GPRS850 (GMSK,1Slot)	190	836.60	246.60	317.48
(Giviort, Foliot)	251	848.80	248.40	319.21
50DD0050	128	824.20	247.60	319.21
EGPRS850 (8PSK,1Slot)	190	836.60	244.60	320.93
(01 311, 13101)	251	848.80	245.20	322.66
	512	1850.20	243.60	324.39
PCS1900 (GMSK)	661	1880.00	246.00	324.39
(Giviort)	810	1909.80	246.40	319.21
	512	1850.20	249.00	320.93
GPRS1900 (GMSK,1Slot)	661	1880.00	243.00	317.48
(3.11314, 13.134)	810	1909.80	247.40	315.76
	512	1850.20	249.00	320.93
EGPRS1900 (8PSK,1Slot)	661	1880.00	244.80	320.93
(01 014, 10101)	810	1909.80	248.00	322.66
	9262	1852.4	4201.93	4847.40
WCDMA Band II	9400	1880.0	4215.26	4873.30
	9538	1907.6	4208.60	4873.30
	4132	826.4	4205.26	4821.50
WCDMA Band V	4183	836.6	4205.26	4890.50
	4233	846.6	4208.59	4925.00

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00.0 kHz/

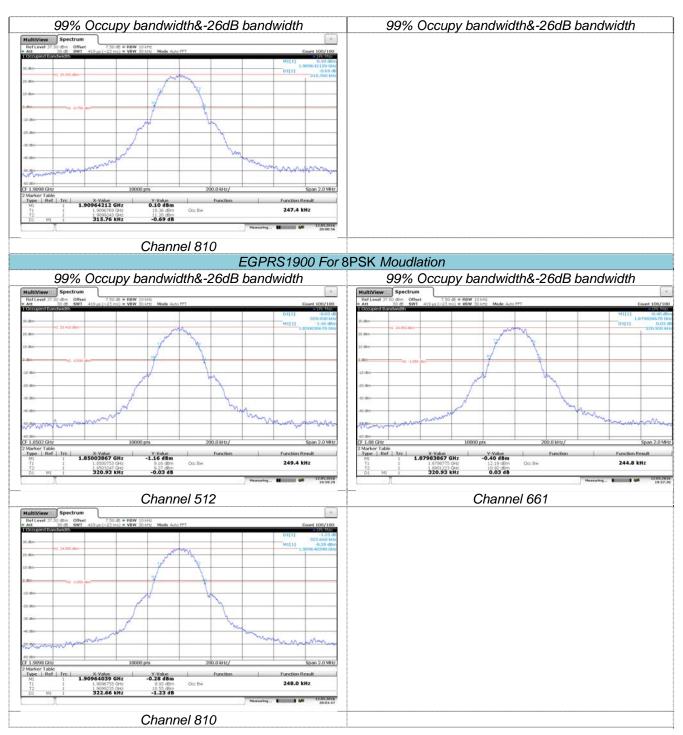
X-Value 848.63522 HHz Y-Value 1.21 dBm

Channel 251

PCS1900 For GMSK Moudlation 99% Occupy bandwidth&-26dB bandwidth 99% Occupy bandwidth&-26dB bandwidth CF I.MI Gibt Type | Ref | Trc | X-Value I 1.87983694 GHz 1 8798767 G-ts Trc | X-Value | 1.85003522 GHz 246.0 kHz Channel 512 Channel 661 Span 2.0 MH Trc | X-Value 1 1.90964039 GHz Y-Value -1.10 dBm Channel 810 GPRS1900 For GMSK Moudlation 99% Occupy bandwidth&-26dB bandwidth 99% Occupy bandwidth&-26dB bandwidth X-Value 1.85003867 GHz Y-Value -1.67 dBm X-Value 1.87984212 GHz Y-Value -1.11 dBm 249.0 kHz 243.0 kHz

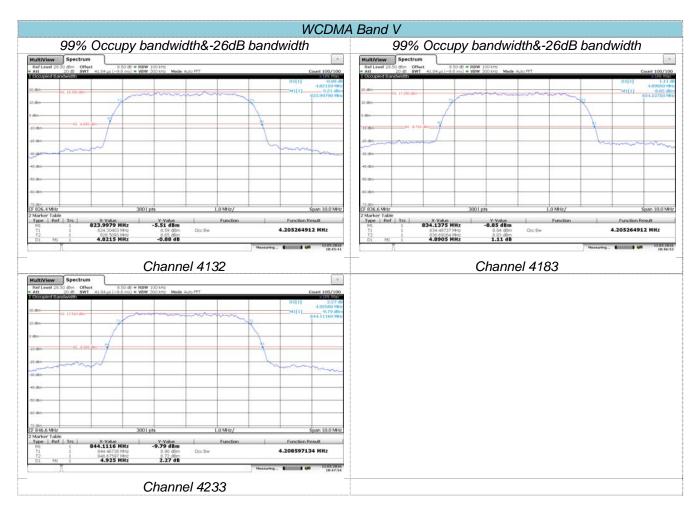
Channel 661

Channel 512



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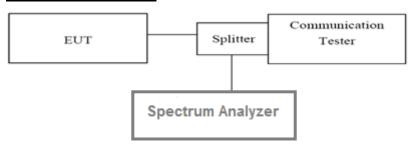
4.3. Out of band emission at antenna terminals

LIMIT

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION

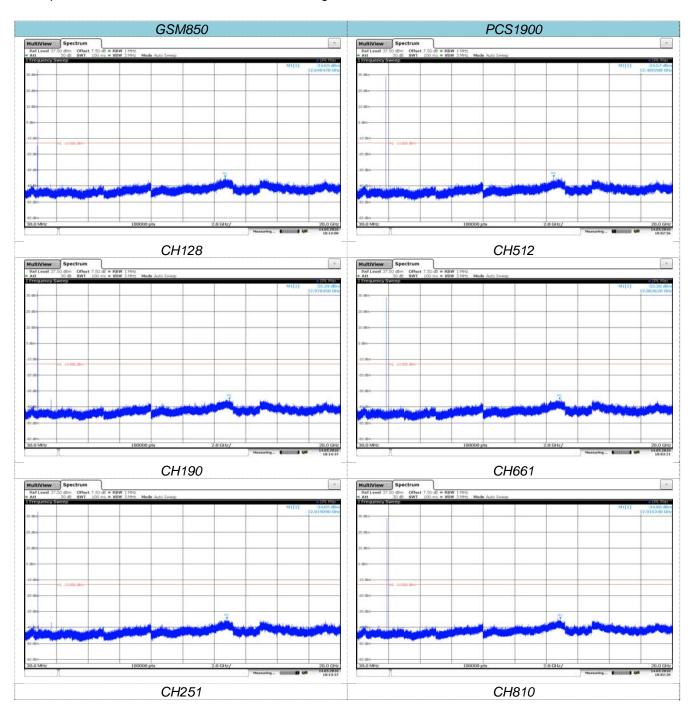


TEST PROCEDURE

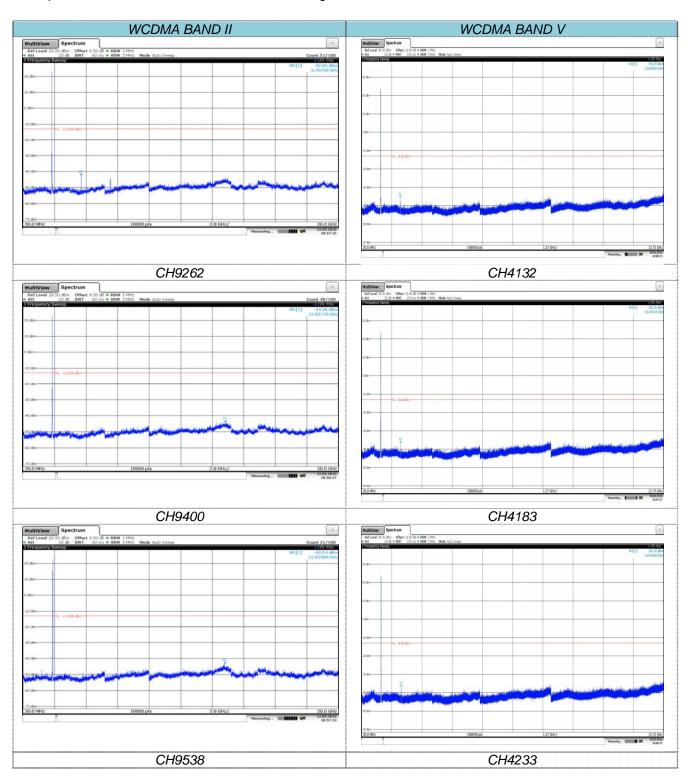
- 1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
- 2. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.
- 3. For the out of band: Set the RBW= 1MHz, VBW = 3MHz, Start=30MHz, Stop= 10th harmonic.

TEST RESULTS

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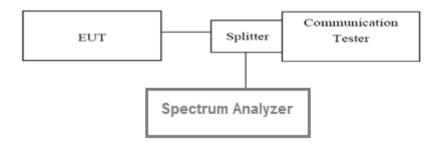
4.4. Band Edge compliance

<u>LIMIT</u>

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
- 2. For the bandedge: 2G:Set the RBW=3KHz, VBW = 10KHz, Sweep time= Auto

3G: Set the RBW=100KHz, VBW = 300KHz, Sweep time= Auto

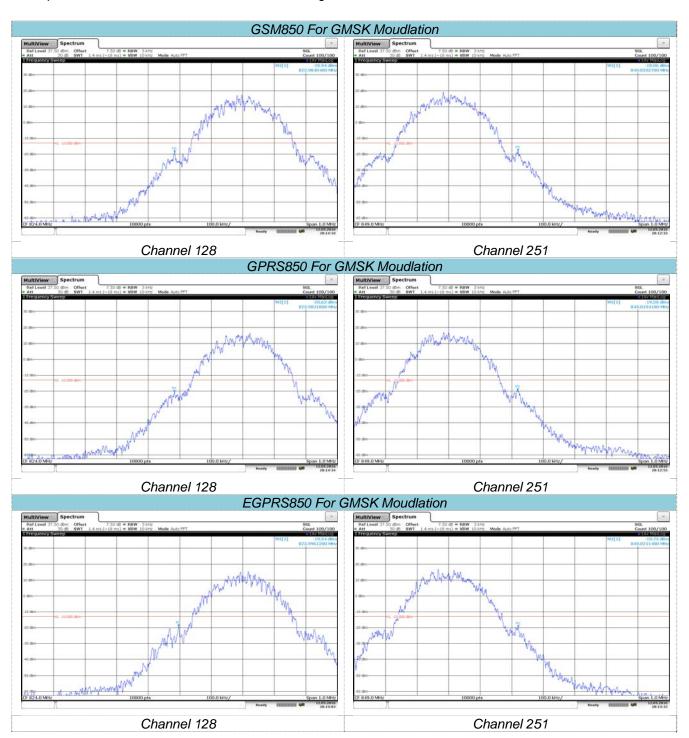
TEST RESULTS

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		GSN	/l850			
Channel	Frequency	Measuremei	nt Results	Limit	Verdict	
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	verdict	
128	824.20	823.8	-18.94	-13.00	Pass	
251	848.80	849	-18.06	-13.00	Pass	
		CDD	S850			
Channel	Fraguenay	Measuremei		Limit		
Number	Frequency		Values (dBm)	(dBm)	Verdict	
128	(MHz) 824.20	Frequency (MHz) 824	-20.63	-13.00	Pass	
251	848.80	849	-19.58	-13.00	Pass	
		EGPF	RS850			
Channel	Frequency	Measuremei	nt Results	Limit	\/ordiot	
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	Verdict	
128	824.20	824	-19.34	-13.00	Pass	
251	848.80	849.	-19.73	-13.00	Pass	
			1900		_	
Channel	Frequency	Measureme		Limit	Verdict	
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)		
512	1850.20	1850	-16.37	-13.00	Pass	
810	1909.80	1910	-16.14	-13.00	Pass	
		GPR	S1900			
Channel	Frequency	Measuremei		Limit		
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	Verdict	
512	1850.20	1850	-17.88	-13.00	Pass	
810	1909.80	1910	-16.02	-13.00	Pass	
0.0	.000.00		. 0.02			
			S1900			
Channel	Frequency	Measureme		Limit	Verdict	
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)		
512	1850.20	1850	-17.44	-13.00	Pass	
810	1909.80	1910	-16.38	-13.00	Pass	
		\\\CD\\\\	A Band II			
Channal	Fraguanay			Limit		
Channel	Frequency	Measuremei		Limit	Verdict	
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	D	
9262	1852.4	1850	-18.36	-13.00	Pass	
9538	1907.6	1910	-23.75	-13.00	Pass	

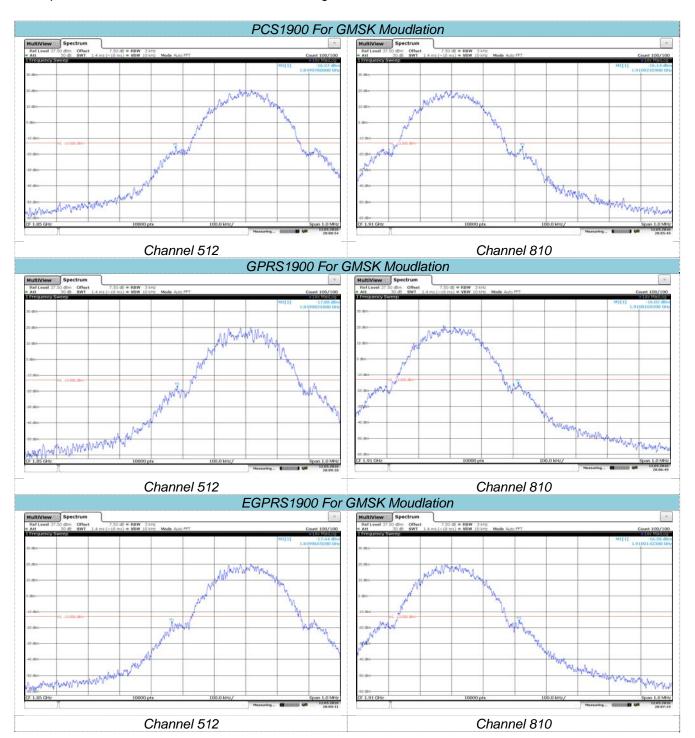
	WCDMA Band II						
Channel	Frequency	Measureme	nt Results	Limit	Verdict		
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	Verdict		
9262	1852.4	1850	-18.36	-13.00	Pass		
9538	1907.6	1910	-23.75	-13.00	Pass		

	WCDMA Band V							
Channel	Frequency	Measurement Results Limit						
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	Verdict			
4132	826.4	824	-26.45	-13.00	Pass			
4233	846.6	849	-23.17	-13.00	Pass			

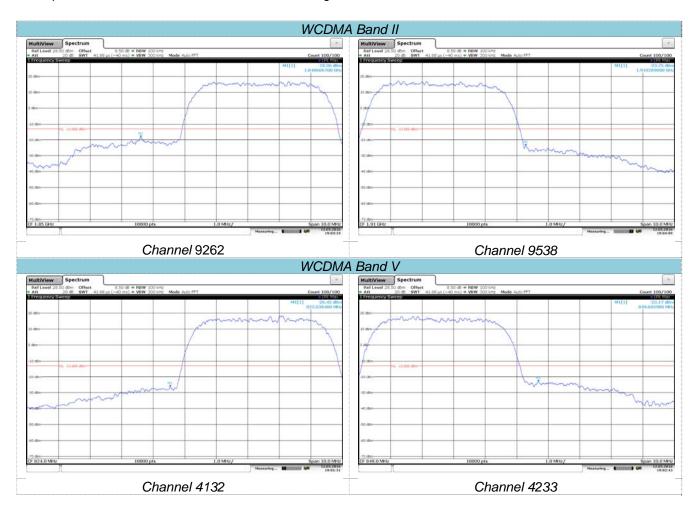
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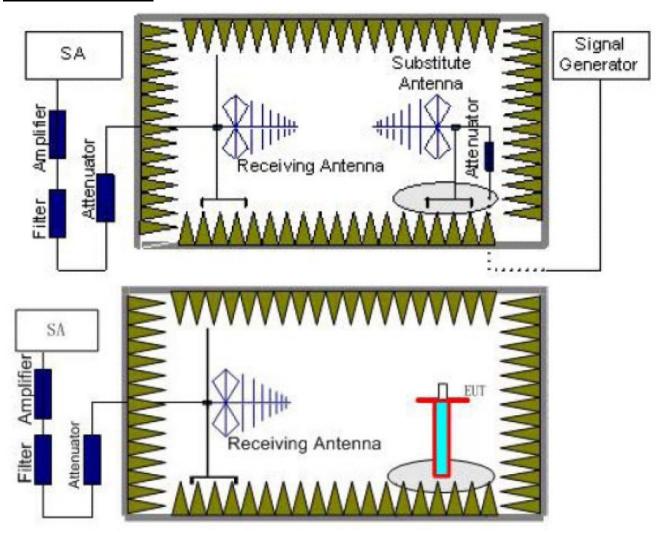
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4.5. Radiated Power Measurement

LIMIT

GSM850/WCDMA Band V: 7W ERP PCS1900/WCDMA Band II: 2W EIRP

TEST CONFIGURATION



TEST PROCEDURE

- 1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.0m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz for above 1GHz and RBW=100kHz,VBW=300kHz for 30MHz to 1GHz,, And the maximum value of the receiver should be recorded as (Pr).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver

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reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

- 5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
- 6. The measurement results are obtained as described below:

Power(EIRP)=PMea- PAg - Pcl + Ga

We used SMF100A micowave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substituation test; The measurement results are amend as described below:

Power(EIRP)=PMea- Pcl + Ga

7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

TEST RESULTS

GSM:

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result
	128	V	29.91		
	120	Н	25.22		
GSM850	190	V	30.14	38.45	Pass
GSIVIOSO	190	Н	26.38	30.43	Fass
	251	V	30.47		
	201	Н	26.43		
	128	V	29.84		Pass
		Н	25.25	38.45	
GPRS850	190	V	30.14		
		Н	26.32		
	251	V	30.43		
	201	Н	26.15		
	128	V	26.35		
	120	Н	24.54		
EGPRS850	190	V	26.38	38.45	Pass
	150	Н	24.15	36.43	1 433
	251	V	26.47		
	201	Н	24.35		

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Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
	540	V	29.47		
	512	Н	25.25		
PCS1900	661	V	29.86	33.01	Pass
PC31900	001	Н	26.14	33.01	F 455
	810	V	29.46		
	810	Н	25.28		
	512	V	28.47		Pass
		Н	25.63	33.01	
GPRS1900	661	V	29.24		
		Н	26.02		
	810	V	28.43		
	610	Н	25.36		
	512	V	25.25		
	312	Н	23.14		
EGPRS 1900	661	V	25.23	33.01	Pass
EGFK3 1900	001	Н	23.02	33.01	Pass
	810	V	25.12		
	010	Н	23.08		

WCDMA:

Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
	9262	V	24.35		Pass
		Н	20.14	33.01	
WCDMA Band II	9400 - 9538 -	V	24.46		
WCDIVIA Bariu II		Н	20.25		
		V	24.47		
		Н	20.38		

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result
	4132	V	21.37		Pass
		Н	17.85	38.45	
WCDMA Band V	4183 4233	V	21.68		
WCDIVIA Bariu V		Н	18.36		
		V	21.58		
		Н	18.06		

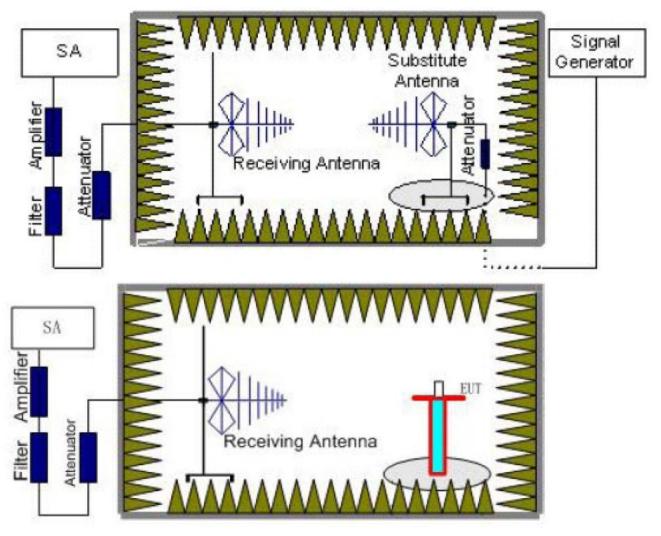
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4.6. Radiated Spurious Emssion

LIMIT

-13dBm

TEST CONFIGURATION



TEST RESULTS

- 1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.0m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz for above 1GHz and RBW=100kHz,VBW=300kHz for 30MHz to 1GHz, And the maximum value of the receiver should be recorded as (Pr).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

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5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.

6. The measurement results are obtained as described below:

Power(EIRP)=PMea- PAg - Pcl + Ga

We used SMF100A micowave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substituation test; The measurement results are amend as described below:

Power(EIRP)=PMea- Pcl + Ga

7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

TEST RESULTS

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		GS	M850		
Ob a mad	Frequency	Spurious	Spurious Emission		Danult
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
	1648.40	Vertical	-48.35		
	2472.60	V	-49.64		
	3296.80	V	-49.78	-13.00	Pass
	4121.00	V	-48.66		
128	4945.20	V			
120	1648.40	Horizontal	-42.36		
	2472.60	Н	-48.47		
	3296.80	Н	-49.74	-13.00	Pass
	4121.00	Н	-52.78		
	4945.20	Н			
	1673.20	Vertical	-47.74		
	2509.80	V	-48.25		
	3346.40	V	-49.66	-13.00	Pass
	4183.00	V	-48.59		
190	5019.60	V			
190	1673.20	Horizontal	-42.47		
	2509.80	Н	-48.35		
	3346.40	Н	-49.86	-13.00	Pass
	4183.00	Н	-52.27		
	5019.60	Н			
	1697.60	Vertical	-48.08		
	2546.40	V	-48.37		
	3395.20	V	-49.52	-13.00	Pass
	4244.00	V	-49.79		
251	5092.80	V			
۱۵۷	1697.60	Horizontal	-43.24		
	2546.40	Н	-48.63		
	3395.20	Н	-49.44	-13.00	Pass
	4244.00	Н	-51.78		
	5092.80	Н		1	

- The emission behaviour belongs to narrowband spurious emission.
- 2.
- Remark"---" means that the emission level is too low to be measured
 The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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		PC	S1900		
Ohamal	Frequency	Spurious	Emission	Lineit (dDay)	Danult
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
	3700.40	Vertical	-47.12		
	5550.60	V	-49.38		
	7400.80	V	-52.47	-13.00	Pass
	9251.00	V	-51.52		
F40	11101.20	V			
512	3700.40	Horizontal	-48.32		
	5550.60	Н	-49.45		
	7400.80	Н	-51.68	-13.00	Pass
	9251.00	Н	-52.46		
	11101.20	Н			
	3760.00	Vertical	-46.47		Pass
	5640.00	V	-49.35		
	7520.00	V	-51.25	-13.00	
	9400.00	V	-51.38		
004	11280.00	V			
661	3760.00	Horizontal	-48.66		
	5640.00	Н	-49.49		
	7520.00	Н	-51.57	-13.00	Pass
	9400.00	Н	-52.24		
	11280.00	Н			
	3819.60	Vertical	-47.33		
	5729.40	V	-48.08		
	7639.20	V	-51.24	-13.00	Pass
	9549.00	V	-51.39		
810	11458.80	V			
010	3819.60	Horizontal	-47.25		
	5729.40	Н	-49.59		
	7639.20	Н	-50.63	-13.00	Pass
	9549.00	Н	-51.73		
	11458.80	Н			

- The emission behaviour belongs to narrowband spurious emission. Remark"----" means that the emission level is too low to be measured
- 1. 2. 3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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		WCDM	A Band II		
Channel	Frequency	Spurious	Emission	Limit (dPm)	Decult
Channei	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
	3704.80	Vertical	-43.91		
	5557.20	V	-39.43	-13.00	Pass
	7409.60	V	-50.44	-13.00	Pass
9262	9262.00	V			
9202	3704.80	Horizontal	-45.94		
	5557.20	Н	-37.22	-13.00	Pass
	7409.60	Н	-50.38	-13.00	Pass
	9262.00	Н			
	3760.00	Vertical	-42.74		Pass
	5640.00	V	-39.69	-13.00	
	7520.00	V	-49.47	-13.00	
9400	9400.00	V			
9400	3760.00	Horizontal	-45.28		_
	5640.00	Н	-38.32	-13.00	
	7520.00	Н	-51.58	-13.00	Pass
	9400.00	Н			
	3815.20	Vertical	-42.45		
	5722.80	V	-38.63	42.00	Daga
	7630.40	V	-49.76	-13.00	Pass
0520	9538.00	V			
9538	3815.20	Horizontal	-44.58		
	5722.80	Н	-37.36	12.00	Daga
	7630.40	Н	-51.69	-13.00	Pass
	9538.00	Н			

- The emission behaviour belongs to narrowband spurious emission.
- 1. 2.
- Remark"---" means that the emission level is too low to be measured
 The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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		WCDM	A Band V		
Ob an al	Frequency	Spurious Emission		Lineit (dDay)	D !!
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
	1652.80	Vertical	-48.43		Pass
	2479.20	V	-45.49	42.00	
	3305.60	V	-50.15	-13.00	
4132	4132.00	V			
4132	1652.80	Horizontal	-49.36		Pass
	2479.20	Н	-46.47	12.00	
	3305.60	Н	-51.47	-13.00	
	4132.00	Н			
	1673.20	Vertical	-47.64		Pass
	2509.80	V	-45.25	-13.00	
	3346.40	V	-50.87		
4183	4183.00	V			
4103	1673.20	Horizontal	-49.69		Pass
	2509.80	Н	-46.75	42.00	
	3346.40	Н	-51.87	-13.00	
	4183.00	Н			
4233	1693.20	Vertical	-47.52		Pass
	2539.80	V	-4.36	42.00	
	3386.40	V	-49.25	-13.00	
	4233.00	V			
	1693.20	Horizontal	-49.62		Dana
	2539.80	Н	-45.84	-13.00	
	3386.40	Н	-50.63	-13.00	Pass
	4233.00	Н			

- 2. 3.
- The emission behaviour belongs to narrowband spurious emission.

 Remark"---" means that the emission level is too low to be measured

 The emission levels of below 1 GHz are very lower than the limit and not show in test report.

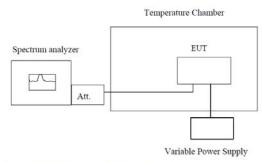
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4.7. Frequency stability V.S. Temperature measurement

LIMIT

2.5ppm

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.
- 3. The EUT was placed inside the temperature chamber.
- 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25℃ operating frequency as reference frequency.
- 5. Turn EUT off and set the chamber temperature to −30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST RESULTS

Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz							
Power supplied			cy error	Limit (nnm)	Result		
(Vdc)	remperature (C)	Hz	ppm	Limit (ppm)	Resuit		
	-30	26	0.031		Pass		
	-20	28	0.033				
	-10	14	0.017				
	0	19	0.023				
3.80	10	25	0.030	2.5			
	20	18	0.022				
	30	32	0.038				
	40	25	0.030				
	50	36	0.043				
Reference Frequency: PCS1900 Middle channel=661 channel=1880MHz							
Power supplied	Tomporeture (°C)	Frequency error		Limit (ppm)	Pocult		
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result		
	-30	18	0.010				
	-20	23	0.012		Pass		
	-10	32	0.017				
	0	25	0.013				
3.80	10	34	0.018	2.5			
	20	26	0.014				
	30	24	0.013				
	40	24	0.013				
	50	15	0.008				

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Refere	nce Frequency: WCDN	MA Band II Middle	channel=9400 cl	nannel=1880MH	<u>z</u>
Power supplied	Temperature (°C)	Frequency error		Limit (ppm)	Result
(Vdc)	remperature (C)	Hz	ppm	Limit (ppin)	Result
	-30	19	0.010	-	Pass
	-20	15	0.008		
	-10	24	0.013		
	0	18	0.010		
3.80	10	32	0.017	2.5	
	20	24	0.013		
	30	26	0.014		
	40	14	0.007		
	50	28	0.015	-	
Referer	nce Frequency: WCDM	AA Band V Middle	channel=4183 ch	nannel=836.6MH	Z
Power supplied	Tomporoture (°C)	Frequency error		Limit (ppm)	Result
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	22	0.026		Pass
	-20	32	0.038		
	-10	25	0.030		
	0	18	0.022	2.5	
3.80	10	28	0.033		
	20	23	0.027		
	30	27	0.032		
	40	25	0.030]	
	50	28	0.033	1	

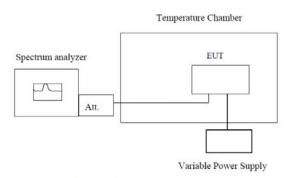
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4.8. Frequency stability V.S. Voltage measurement

LIMIT

2.5ppm

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

- 1. Set chamber temperature to 25° C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.
- 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
- 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

TEST RESULTS

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Reference	Frequency: GSM85	0 (GSM link) Midd	lle channel=190 d	channel=836.6Ml	Нz	
Temperature (°C)	Power supplied	Frequency error		Limit (nnm)	Result	
	(Vdc)	Hz	ppm	Limit (ppm)	Resuit	
	4.35	22	0.026	2.5		
25	3.80	31	0.037		Pass	
	3.60	28	0.033			
Reference	Frequency: PCS190	00 (GSM link) Mid	dle channel=661	channel=1880Ml	Hz	
Temperature (°ℂ)	Power supplied	Frequency error		Limit (nnm)	Result	
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Resuit	
	4.35	19	0.010	2.5		
25	3.80	23	0.012		Pass	
	3.60	26	0.014			
Reference Frequency: WCDMA Band II Middle channel=9400 channel=1880MHz						
Temperature (°C)	Power supplied	Frequer	cy error	Limit (ppm)	Result	
remperature (C)	(Vdc)	Hz	ppm		Vezaii	
	4.35	24	0.013	2.5		
25	3.80	30	0.016		Pass	
	3.60	24	0.013		<u> </u>	
Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz						
Temperature ($^{\circ}\!$	Power supplied	Frequency error		Limit (ppm)	Result	
	(Vdc)	Hz	ppm	Еппи (ррпп)	Nesun	
	4.35	25	0.030			
25	3.80	26	0.031	2.5	Pass	
	3.60	18	0.022			

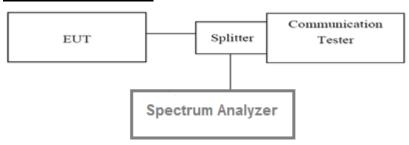
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4.9. Peak-Average Ratio

LIMIT

13dB

TEST CONFIGURATION



TEST PROCEDURE

According with KDB 971168

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals(>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

TEST RESULTS

Worst case GSM1900,WCDMA BAND1700,WCDMA BAND1900

Band	Channel	Frequency(MHz)	PAR	Limit(dB)	Result
GSM1900	512	1850.2	0.25	13	Pass
	661	1880.0	0.38	13	Pass
	810	1909.8	0.74	13	Pass

Band	Channel	Frequency(MHz)	PAR	Limit(dB)	Result
WCDMA BAND	9262	1852.4	2.15	13	Pass
	9400	1880.0	2.36	13	Pass
	9538	1907.6	2.47	13	Pass

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5. Test Setup Photos of the EUT

Radiated emission:





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6. External and Internal Photos of the EUT

External photos of the EUT







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Internal photos of the EUT







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.....End of Report.....