

Shenzhen Huatongwei International Inspection Co., Ltd.

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FCC REPORT

Report Reference No.....: TRE1702000701 R/C......: 34168

FCC ID.....: YPVITALCOMBLINK

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

Manufacturer...... UTCOM TECHNOLOGY CO.,LIMITED

Town, Baoan District, Shenzhen, 518012

Test item description: Smart phone

Trade Mark: NYX

Model/Type reference...... BLINK

Listed Model(s) -

Standard: FCC Part 22: PUBLIC MOBILE SERVICES

FCC Part 24: PERSONAL COMMUNICATIONS SERVICES

Date of receipt of test sample...... Feb. 08, 2017

Date of testing...... Feb. 09, 2017 - Feb. 15, 2017

Date of issue...... Feb. 16, 2017

Result...... Pass

Compiled by

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(position+printed name+signature)..: Manager Hans Hu

. .

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

Gongming, Shenzhen, China

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1. Test standards and Report version

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Part 22: PRIVATE LAND MOBILE RADIO SERVICES.

FCC Part 24: PUBLIC MOBILE SERVICES

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

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.

1.2. Report version

Version No.	Date of issue	Description
00	Feb. 16, 2017	Original

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2. Test Description

Test Item	Section in CFR 47	Result
	Part 2.1046	
RF Output Power	Part 22.913(a)	Pass
	Part 24.232(c)	
	Part 2.1049	
99% & -26 dB Occupied Bandwidth	Part 22.917(b)	Pass
	Part 24.238(b)	
	Part 2.1051	
Conducted Spurious Emissions	Part 22.917	Pass
	Part 24.238	
	Part 2.1051	
Band Edge	Part 22.917	Pass
% & -26 dB Occupied Bandwidth onducted Spurious Emissions and Edge RP and EIRP adiated Spurious Emissions equency stability vs. temperature equency stability vs. voltage	Part 24.238	
EDD and EIDD	Part 22.913(a)	Door
ERP and EIRP	Part 24.232(b)	Pass
	Part 2.1053	
Radiated Spurious Emissions	Part 22.917	Pass
	Part 24.238	
	Part 2.1055(a)(1)(b)	
Frequency stability vs. temperature	Part 22.255	Pass
	Part 24.235	
	Part 2.1055(d)(1)(2)	
Frequency stability vs. voltage	Part 22.255	Pass
	Part 24.235	
Peak-Average Ratio	Part 24.232	Pass

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

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3. **SUMMARY**

3.1. Client Information

Applicant:	ITALCOM GROUP
Address:	1728 Coral Way, Coral Gables, Miami, Florida, United States
Manufacturer:	UTCOM TECHNOLOGY CO.,LIMITED
Address:	4C, Block A, Central Avenue Building, BaoYuan Road, Xixiang Town, Baoan District, Shenzhen, 518012

3.2. Product Description

Name of EUT	Smart phone	
Trade Mark:	NYX	
Model No.:	BLINK	
Listed Model(s):	-	
IMEI :	352873080000387	
Power supply:	DC 3.7V From internal battery	
Adapter information:	Input: 100-240Va.c., 50/60Hz, 0.15A Output: 5Vd.c., 500mA	
2G:		
Support Network:	GSM, GPRS, EGPRS	
Support Band:	GSM850, PCS1900	
Modulation:	GSM/GPRS/EGPRS: 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:	Integral Antenna	
Antenna gain:	GSM850: 1.0 dBi PCS1900: 1.0 dBi	
Hardware version:	3702_BLINK	
Software version:	BLINK_AMXNYX_V001R	
3G:		
Operation Band:	FDD Band II and FDD Band V	
Power Class:	Power Class 3	
Modilation Type:	QPSK/16QAM/64QAM/HSUPA/HSDPA	
DC-HSUPA Release Version:	: Not Supported	
Antenna type:	Integral Antenna	
Antenna gain:	Band II: 1.0 dBi, Band V: 1.0 dBi	

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3.3. Operation state

> Test frequency list

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 E	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		

Test mode

For RF test items

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

3.4. EUT configuration

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

- supplied by the manufacturer
- supplied by the lab

	Length (m):	/
	Shield:	/
	Detachable :	/
	Manufacturer:	/
	Model No.:	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

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4. TEST ENVIRONMENT

4.1. 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

4.2. 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 Laboratories, 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 technical 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 February 27, 2018.

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 FCC is maintained in our files. Registration 317478, Renewal date Jul. 18, 2014, valid time is until Jul. 18, 2017.

IC-Registration No.: 5377B

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 Australian C-Tick mark as a result of our A2LA accreditation.

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4.3. 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	2016/11/13
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
3	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13

Freque	Frequency Stability					
No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13	
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13	
3	Climate Chamber	ESPEC	EL-10KA	05107008	2016/11/13	
4	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13	

Output Power (Radiated) & Radiated Spurious Emission					
No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13
2	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
3	HORN ANTENNA	ShwarzBeck	9120D	1012	2016/11/13
4	HORN ANTENNA	ShwarzBeck	9120D	1011	2016/11/13
5	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
6	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	539	2016/11/13
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	2016/11/13
11	RF Test Panel	Rohde&Schwarz	TS / RSP	335015/0017	2016/11/13
12	High pass filter	Compliance Direction systems	BSU-6	34202	2016/11/13
13	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13
14	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2016/11/13
15	Horn Antenna	SCHWARZBECK	BBHA9170	25842	2016/11/13
16	Preamplifier	ShwarzBeck	BBV 9718	BBV 9718	2016/11/13
17	Broadband Preamplifier	ShwarzBeck	BBV743	9743-0079	2016/11/13
18	Signal Generator	Rohde&Schwarz	SMF100A	101932	2016/11/13
19	Amplifer	Compliance Direction systems	PAP1-4060	120	2016/11/13
20	TURNTABLE	ETS	2088	2149	2016/11/13
21	ANTENNA MAST	ETS	2075	2346	2016/11/13
22	HORN ANTENNA	Rohde&Schwarz	HF906	100068	2016/11/13
23	HORN ANTENNA	Rohde&Schwarz	HF906	100039	2016/11/13

The calibration interval was one year.

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4.4. 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

4.5. 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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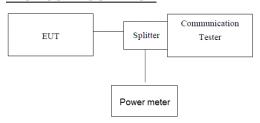
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

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.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

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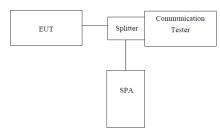
EUT Mode	Channel	Frequency (MHz)	Power (dBm)
	128	824.20	32.23
GSM 850 (GMSK)	190	836.60	32.38
(OMOR)	251	848.80	32.27
	128	824.20	32.26
GPRS850 (GMSK,1Slot)	190	836.60	32.35
(GIVISK, ISIOL)	251	848.80	32.31
FORROSS	128	824.20	27.25
EGPRS850 (8PSK,1Slot)	190	836.60	27.43
(05 311, 13101)	251	848.80	27.38
	512	1850.20	30.15
PCS1900 (GMSK)	661	1880.00	30.13
(OMOIT)	810	1909.80	30.17
	512	1850.20	30.19
GPRS1900 (GMSK,1Slot)	661	1880.00	30.21
(OMON, TOION)	810	1909.80	30.22
E00004000	512	1850.20	26.52
EGPRS1900 (8PSK,1Slot)	661	1880.00	26.48
(01 311, 13101)	810	1909.80	26.35
	9262	1852.40	23.51
WCDMA Band II	9400	1880.00	23.63
	9538	1907.60	23.71
	4132	826.40	22.77
WCDMA Band V	4183	836.60	22.49
	4233	846.60	22.74

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5.2. 99% & -26 dB Occupied Bandwidth

LIMIT N/A

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.

TEST MODE:

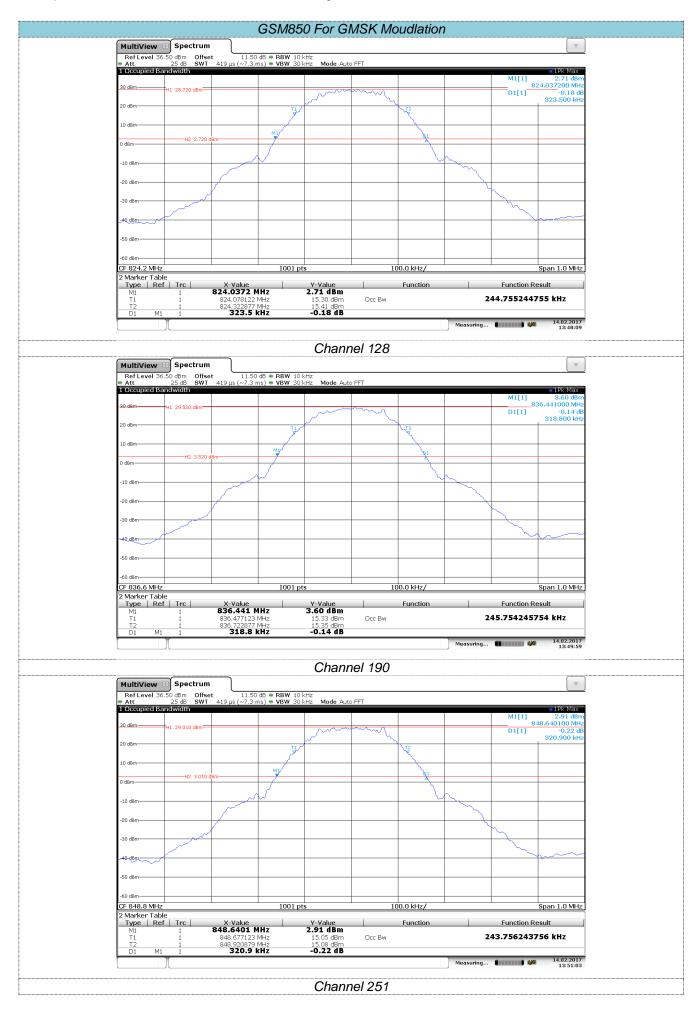
Please refer to the clause 3.3

TEST RESULTS

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EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
	128	824.20	244.76	323.50
GSM 850 (GMSK)	190	836.60	245.75	318.80
(OMOR)	251	848.80	243.76	320.90
	128	824.20	243.76	323.40
GPRS850 (GMSK,1Slot)	190	836.60	245.75	323.50
	251	848.80	243.76	319.80
50550000	128	824.20	243.76	322.40
EGPRS850	190	836.60	243.76	322.40
(8PSK,1Slot)	251	848.80	245.75	321.50
	512	1850.20	246.75	320.60
PCS1900 (GMSK)	661	1880.00	243.76	324.90
	810	1909.80	245.75	319.60
	512	1850.20	244.76	321.10
GPRS1900 (GMSK,1Slot)	661	1880.00	243.76	323.20
(OMOR, FOICE)	810	1909.80	244.76	323.50
	512	1850.20	244.76	322.20
EGPRS1900 (8PSK,1Slot)	661	1880.00	244.76	322.40
(01 311, 13101)	810	1909.80	244.76	324.60
	9262	1852.40	4205.79	4899.00
WCDMA Band II	9400	1880.00	4195.80	4887.00
	9538	1907.60	4195.80	4905.00
	4132	826.40	4205.79	4953.00
WCDMA Band V	4183	836.60	4235.76	4936.00
	4233	846.60	4225.77	4922.00

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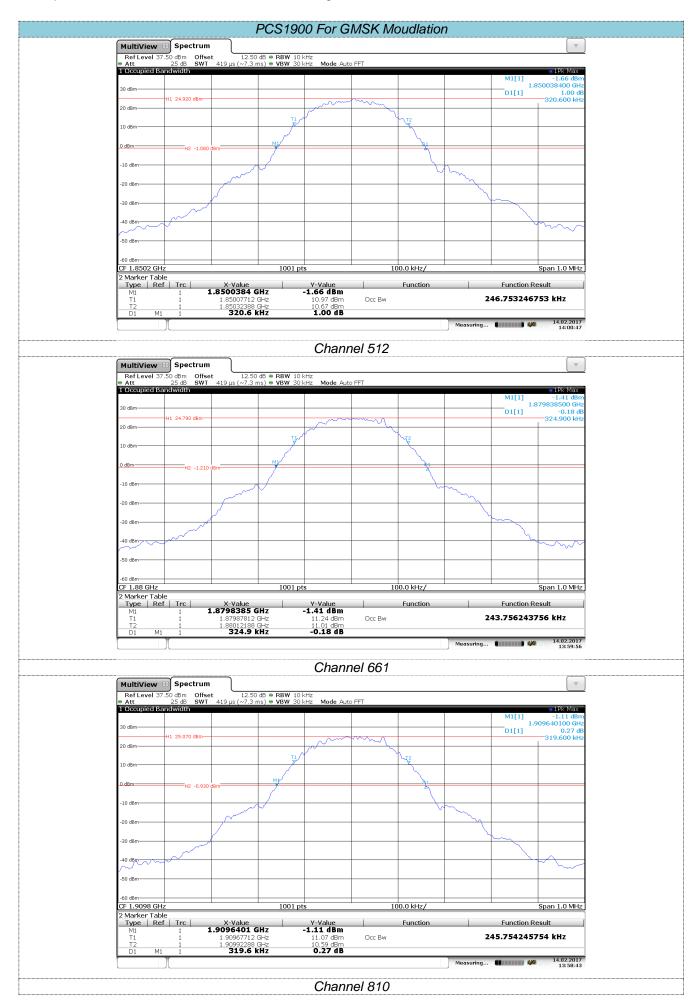
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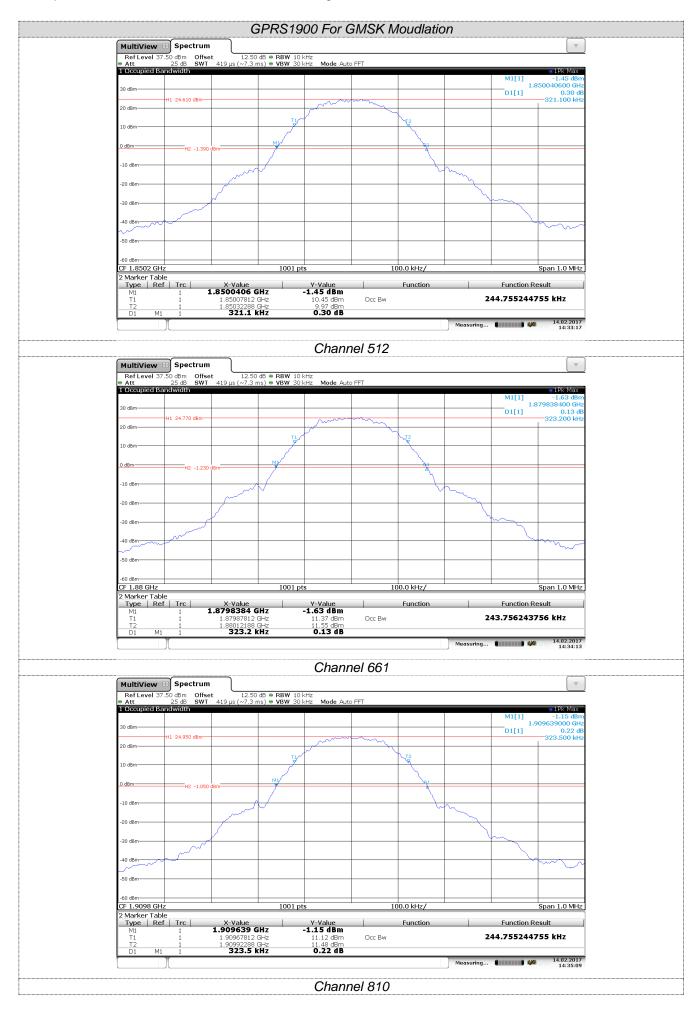
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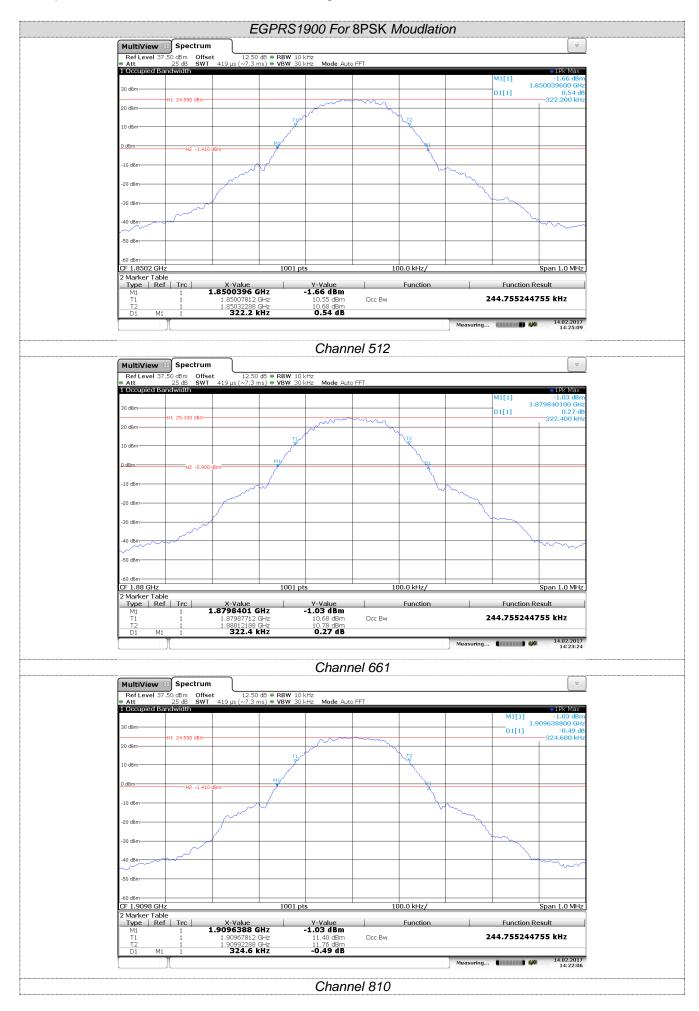
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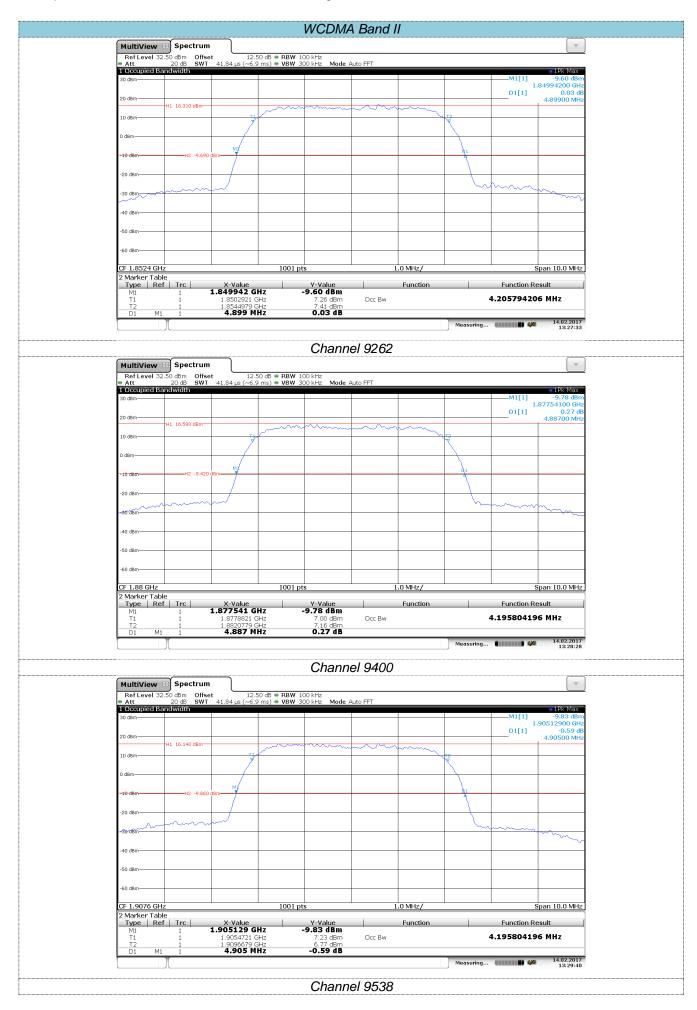
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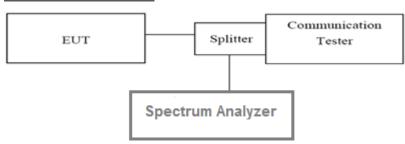
5.3. Conducted Spurious Emissions

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 MODE:

Please refer to the clause 3.3

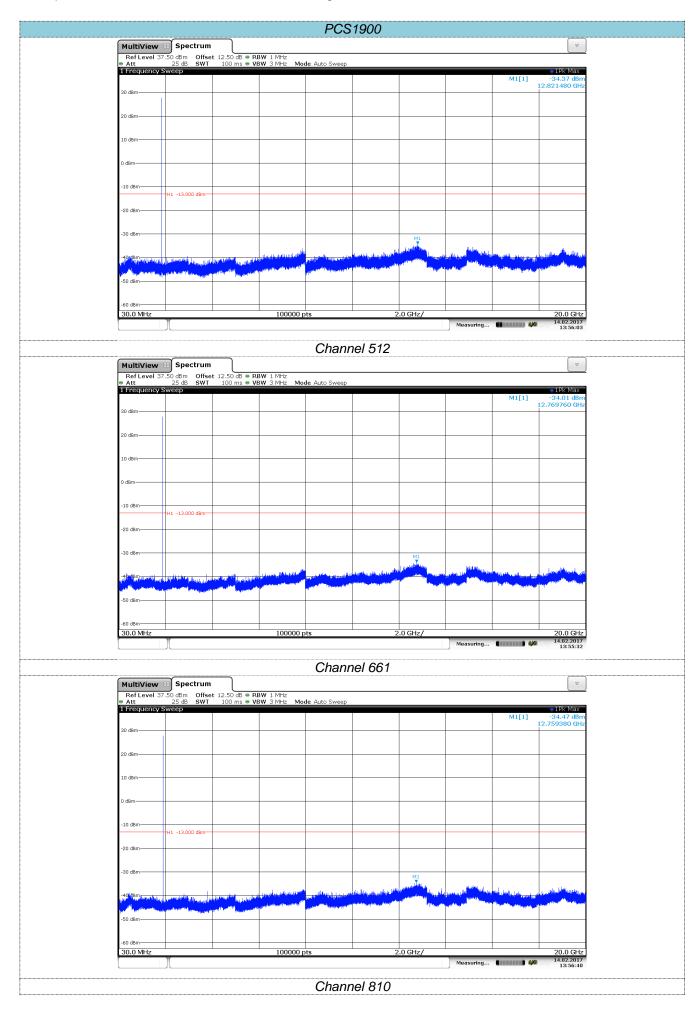
TEST RESULTS

Note:Worst case at GSM850/DCS1800

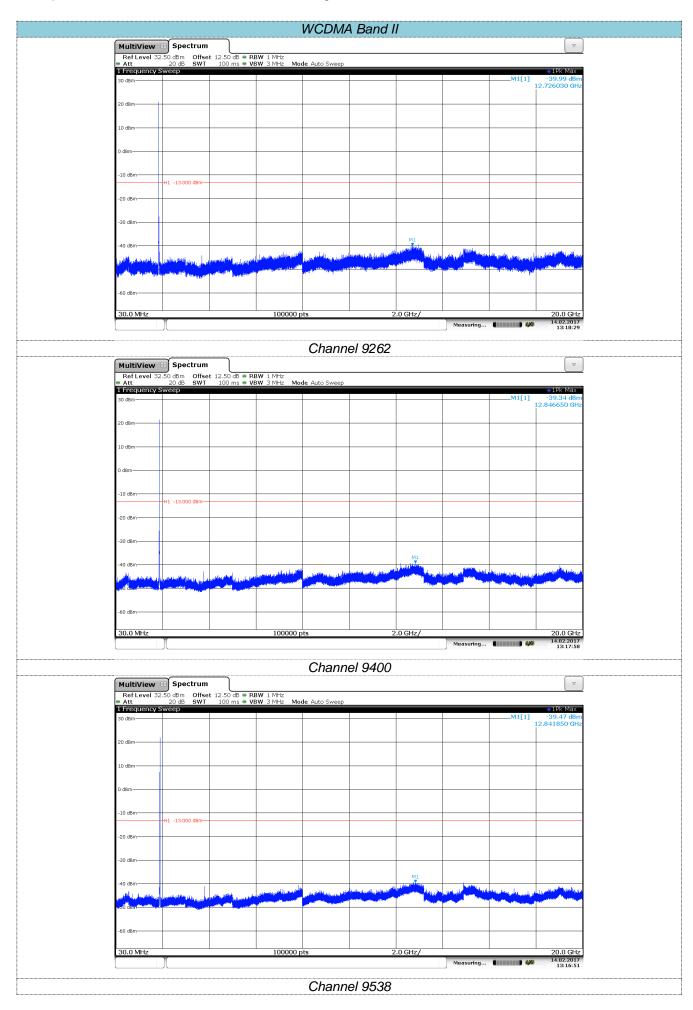
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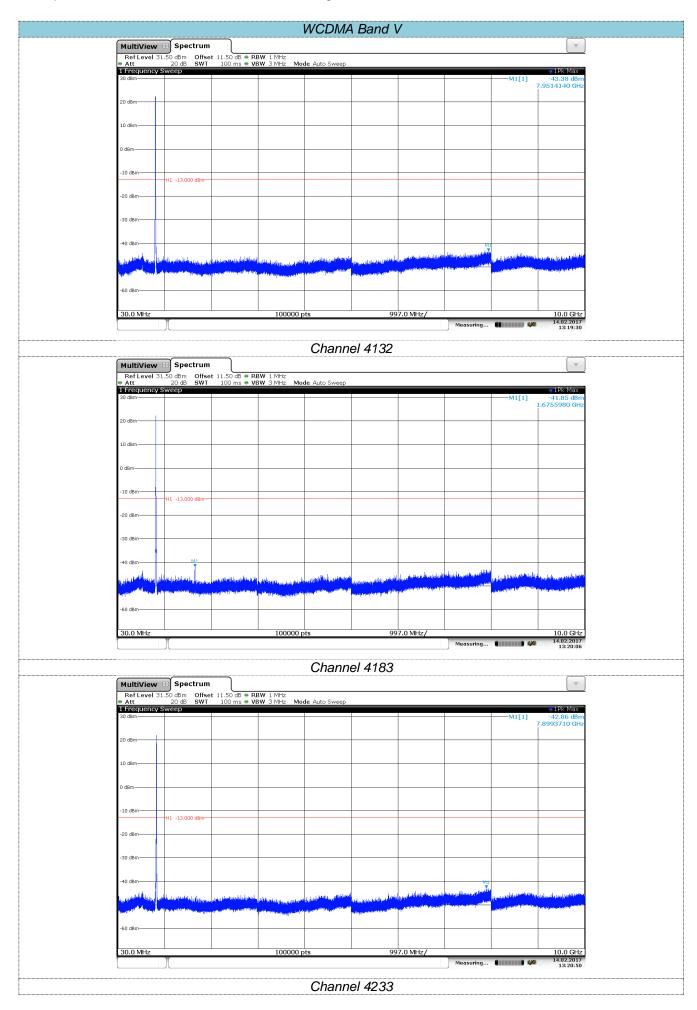
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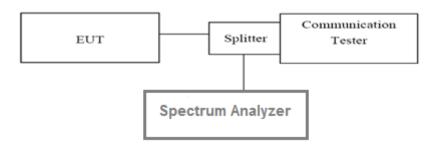
5.4. Band Edge

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. For the bandedge: 2G:Set the RBW=3KHz, VBW = 10KHz, Sweep time= 300ms

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

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

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GSM850						
Channel	Channel Frequency Measurement Results				Verdict	
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	verdict	
128	824.20	824	-16.01	-13.00	Pass	
251	848.80	849	-13.95	-13.00	Pass	

GPRS850						
Channel	Frequency	Measureme	nt Results	Limit	Verdict	
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	verdict	
128	824.20	824	-14.85	-13.00	Pass	
251	848.80	849	-13.37	-13.00	Pass	

EGPRS850						
Channel	Channel Frequency Measurement Results				Verdict	
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	verdict	
128	824.20	824	-14.29	-13.00	Pass	
251	848.80	849.	-13.45	-13.00	Pass	

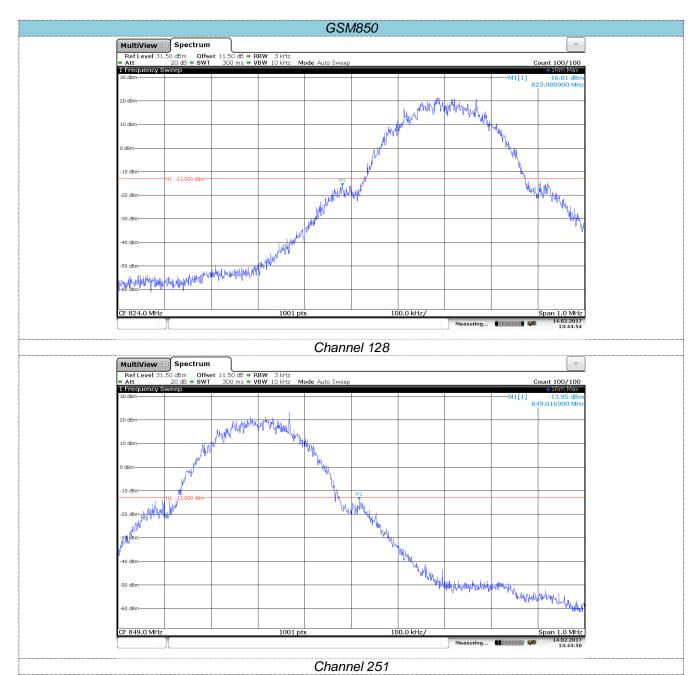
PCS1900						
Channel Frequency Measurement Results				Limit	Verdict	
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	verdict	
512	1850.20	1850	-15.09	-13.00	Pass	
810	1909.80	1910	-17.42	-13.00	Pass	

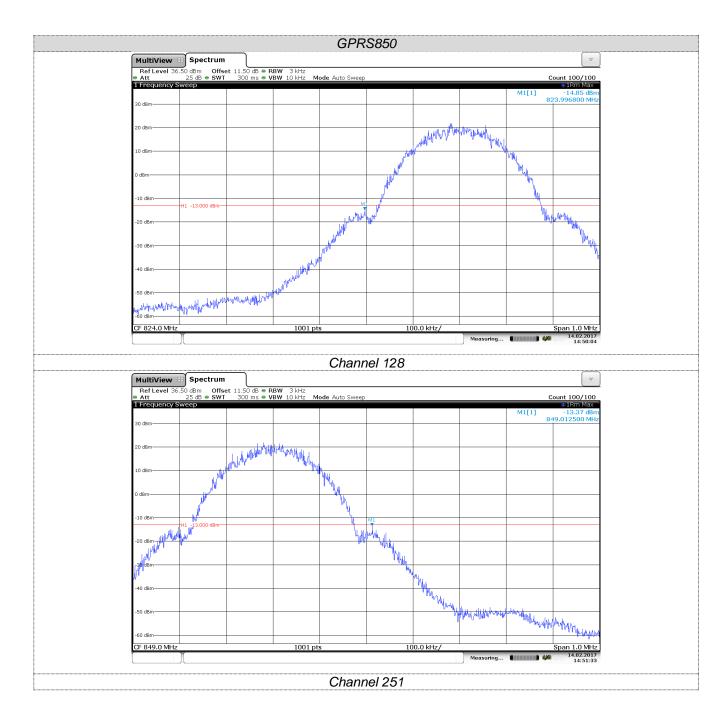
GPRS1900						
Channel	Frequency	Measureme	nt Results	Limit	Verdict	
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	verdict	
512	1850.20	1850	-19.16	-13.00	Pass	
810	1909.80	1910	-18.43	-13.00	Pass	

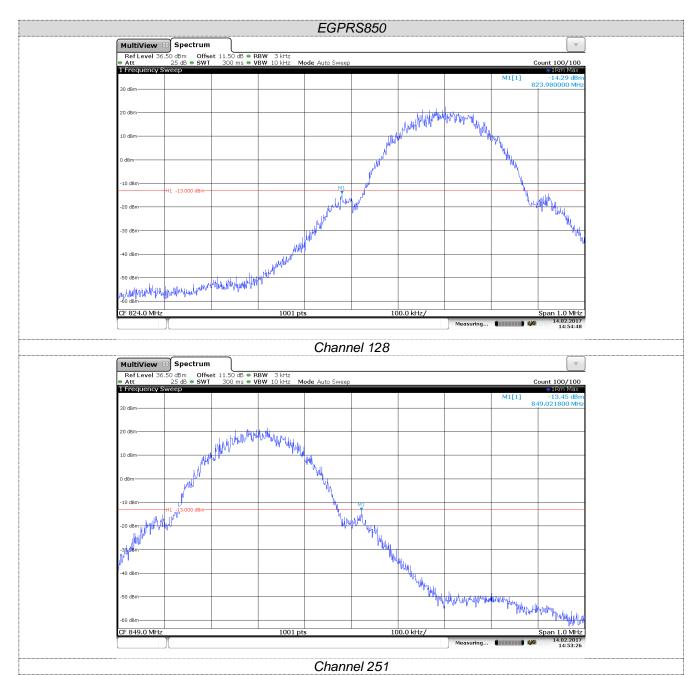
EGPRS1900						
Channel	Channel Frequency Measurement Results				Verdict	
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	verdict	
512	1850.20	1850	-18.55	-13.00	Pass	
810	1909.80	1910	-17.70	-13.00	Pass	

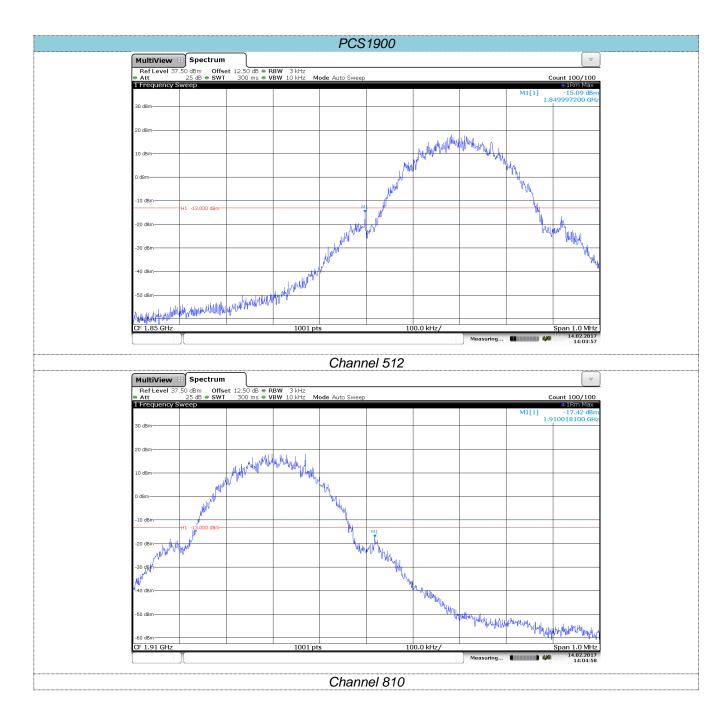
WCDMA Band II						
Channel Frequency Measurement Results Limit Verdict						
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	verdict	
9262	1852.4	1850	-13.50	-13.00	Pass	
9538	1907.6	1910	-15.25	-13.00	Pass	

WCDMA Band V						
Channel	Frequency	Measureme	Limit	Verdict		
Number	(MHz)	Frequency (MHz)	Values (dBm)	(dBm)	verdict	
4132	826.4	824	-14.85	-13.00	Pass	
4233	846.6	849	-14.58	-13.00	Pass	

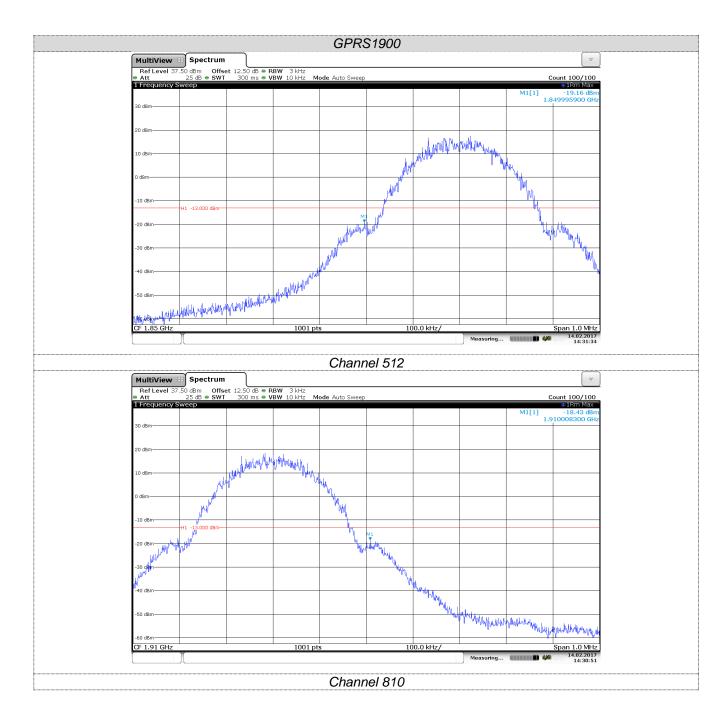




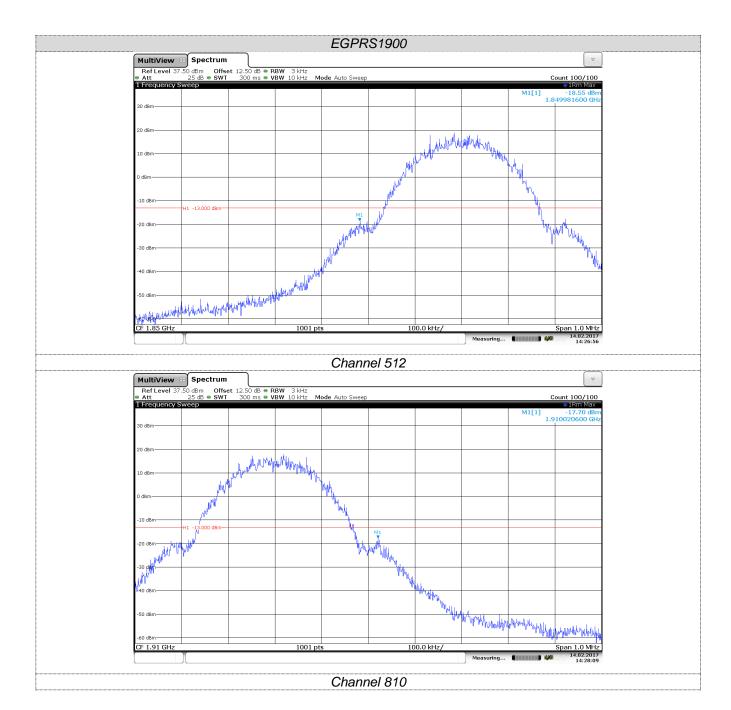




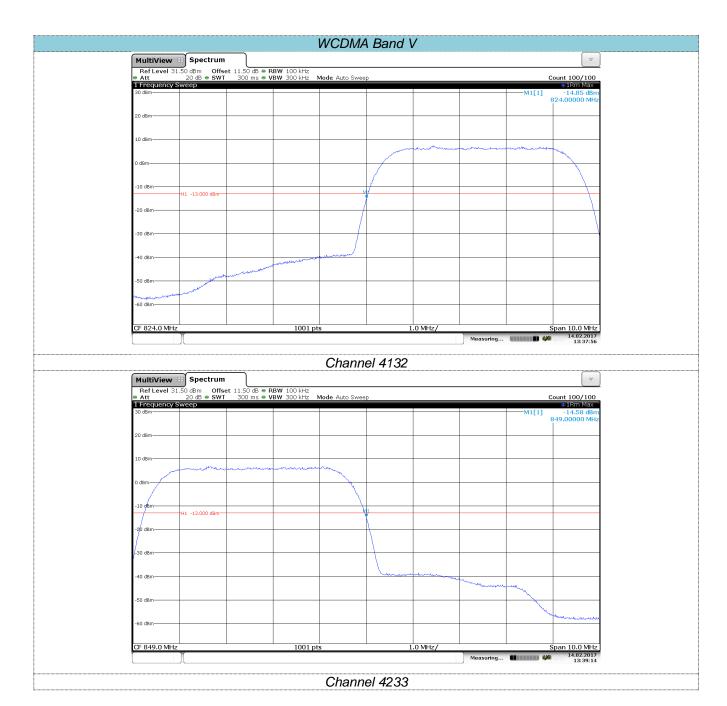
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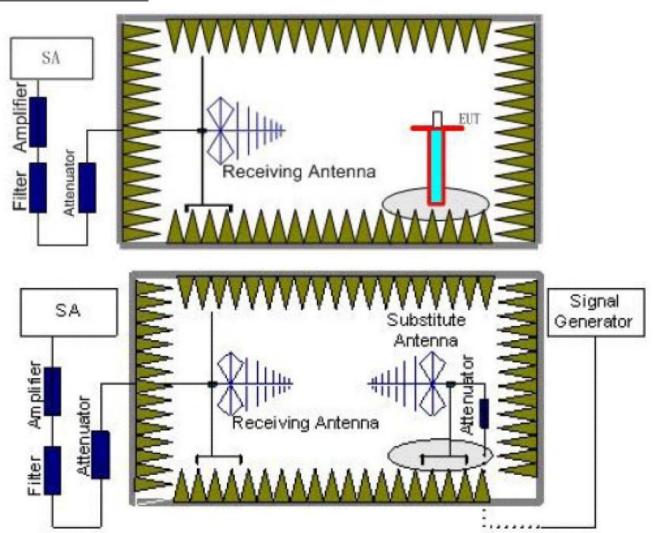
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5.5. ERP and EIRP

LIMIT

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

TEST CONFIGURATION



TEST PROCEDURE

- 1. EUT was placed on a 0.8 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

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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.

- 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 MODE:

Please refer to the clause 3.3

TEST RESULTS

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result
	400	V	30.71		
	128	Н	20.75		
GSM850	190	V	31.58	38.45	Pass
GSIVIOSU	190	Н	20.71	36.45	F455
	251	V	31.46		
	251	Н	20.85		
	128	V	30.64		Pass
	128	Н	20.29	38.45	
GPRS850	190	V	31.35		
GFK3630		Н	20.86		
	251	V	31.33		
	231	Н	20.47		
	128	V	26.52		
	120	Н	17.74		
EGPRS850	190	V	26.63	38.45	Pass
LGFIX3030	190	Н	17.36	38.45	газэ
	251	V	26.28		
	231	Н	17.44		

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Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
	512	V	24.44		
	512	Н	25.75		
PCS1900	661	V	24.18	33.00	Door
PCS1900	001	Н	25.16	33.00	Pass
	810	V	25.29		
	010	Н	27.78		
	512	V	24.28		Pass
	312	Н	25.46	33.00	
GPRS1900	661	V	24.12		
GPR31900		Н	25.54		
	040	V	25.39		
	810	Н	27.08		
	512	V	17.65		
	312	Н	20.44		
EGPRS 1900	661	V	17.68	33.00	Pass
EGFKS 1900	661	Н	20.84	33.00	F a 5 5
	810	V	20.42		
	010	Н	22.79		

Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
	9262	V	17.86		Pass
		Н	18.64		
WCDMA Band II	9400 - 9538 -	V	17.28	33.00	
WCDIMA Band II		Н	19.27		
		V	18.45		
		Н	20.12		

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result
	4132	V	22.67		Pass
		Н	14.51		
WCDMA Band V	4183 4233	V	22.73	38.45	
WCDIVIA Bariu V		Н	13.32		
		V	22.65		
		Н	13.47		

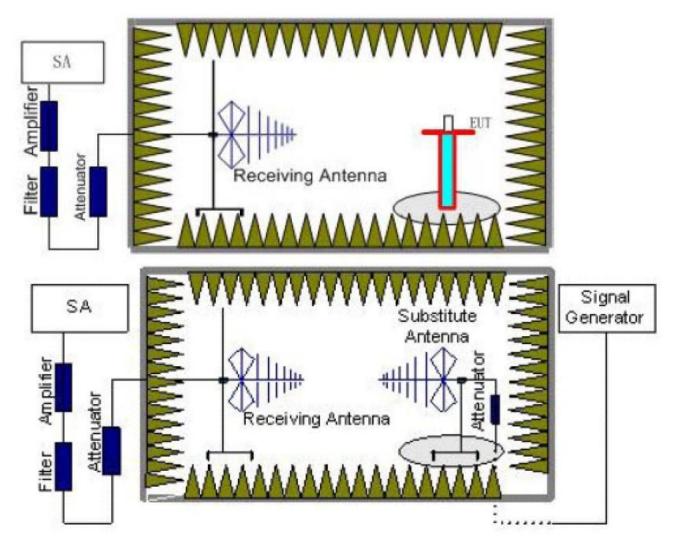
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5.6. Radiated Spurious Emssion

LIMIT

-13dBm

TEST CONFIGURATION



TEST RESULTS

- 1. EUT was placed on a 0.8 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

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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 (PcI) ,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 MODE:

Please refer to the clause 3.3

TEST RESULTS

Note:Worst case at GSM850/DCS1800

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		GS	M850		
Channal	Channel Frequency Spurious Er			Limit (dDm)	Desuit
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
	182.21	Vertical	-63.09		
	259.91	V	-61.54		
	1648.51	V	-42.85	40.00	D
	2472.57	V	-44.94	-13.00	Pass
	3295.11	V	-50.72		
400	4113.73	V	-51.34		
128	182.21	Horizontal	-63.88		
	259.91	Н	-61.81		
	1648.51	Н	-42.58	40.00	Dana
	2472.57	Н	-42.34	-13.00	Pass
	4113.73	Н	-54.65		
	9041.46	Н	-44.72		
	41.46	Vertical	-69.06	-13.00	Pass
	259.91	V	-61.17		
	1674.06	V	-41.91		
	2510.89	V	-46.64		Pass
	3343.25	V	-50.07		
190	4113.73	V	-50.92		
190	182.21	Horizontal	-67.82		Pass
	259.91	Н	-61.43		
	1674.06	Н	-42.84	-13.00	
	2510.89	Н	-42.98	-13.00	
	4179.88	Н	-53.73		
	9651.20	Н	-45.05		
	41.61	Vertical	-68.70		
	259.91	V	-61.74		
	1698.14	V	-44.60	-13.00	Pass
	1901.59	V	-45.98	-13.00	F 433
	3392.09	V	-49.33		
251	4113.73	V	-50.20		
۱۵۷	182.21	Horizontal	-67.62		
	259.91	Н	-62.03		
	1698.14	Н	-46.61	-13.00	Pass
	1884.95	Н	-46.43	-13.00	r a55
	3392.09	Н	-53.87		
	9877.76	Н	-44.35		

Remark:

The emission behaviour belongs to narrowband spurious emission.

^{1.} The emission levels of not record in the report are very lower than the limit and not show in test report.

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		PCS	S1900		
Channal	Frequency	Spurious	Spurious Emission		Desuit
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
	259.91	Vertical	-62.09		
	378.65	V	-61.41		
	1361.67	V	-54.51	40.00	D
	2635.25	V	-49.14	-13.00	Pass
	3700.48	V	-45.94		
540	5554.08	V	-43.07		
512	182.21	Horizontal	-68.03		
	259.91	Н	-61.52		
	1259.49	Н	-54.99	40.00	Descri
	2410.87	Н	-48.62	-13.00	Pass
	3700.48	Н	-45.58		
	5554.08	Н	-43.10		
	259.91	Vertical	-61.63		Page
	414.90	V	-64.07		
	1258.11	V	-55.55	-13.00	
	1716.90	V	-49.74		Pass
	3759.98	V	-40.82		
004	5643.40	V	-39.05		
661	182.21	Horizontal	-66.99		Pass
	259.91	Н	-61.71		
	1574.17	Н	-53.45	40.00	
	2491.65	Н	-50.04	-13.00	
	5643.40	Н	-41.97		
	7520.54	Н	-45.48		
	259.91	Vertical	-61.44		
	378.65	V	-62.20		
	1335.01	V	-55.48	42.00	Dana
	2597.88	V	-48.44	-13.00	Pass
	3820.45	V	-44.43		
040	5725.84	V	-44.18		
810	182.21	Horizontal	-68.45		
	259.91	Н	-61.30		
	1449.66	Н	-54.55	40.00	D
	2555.42	Н	-49.75	-13.00	Pass
	3820.45	Н	-47.10		
	5725.84	Н	-36.37		

Remark:

^{1.} 2. The emission behaviour belongs to narrowband spurious emission.

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

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		WCDM	A Band II		
Channel	Frequency	Limit (dPm)	Result		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
	39.89	Vertical	-72.18		
	266.39	V	-65.49		
	1352.72	V	-54.28	42.00	Daga
	2060.37	V	-51.57	-13.00	Pass
	4101.82	V	-54.20		
0000	9041.46	V	-45.60		
9262	184.14	Horizontal	-67.85		
	266.39	Н	-60.80		
	1513.13	Н	-51.39	40.00	Davis
	1764.70	Н	-48.00	-13.00	Pass
	4960.04	Н	-52.86		
	9935.23	Н	-44.29		
	200.36	Vertical	-71.26		
	307.70	V	-64.15	-13.00	Page
	1670.38	V	-51.18		
	2519.18	V	-46.47		Pass
	4101.82	V	-52.88		
0.400	9470.94	V	-45.04		
9400	184.14	Horizontal	-68.12		Pass
	266.39	Н	-60.74		
	1675.90	Н	-50.51	40.00	
	2600.73	Н	-47.42	-13.00	
	5061.77	Н	-52.56		
	10589.87	Н	-43.23		
	200.36	Vertical	-71.17		
	307.70	V	-65.21		
	1874.62	V	-52.09	40.00	Dana
	2535.84	V	-43.77	-13.00	Pass
	4101.82	V	-53.10		
0.500	11206.10	V	-41.58		
9538	184.14	Horizontal	-68.33		
	266.39	Н	-60.90		
	1258.11	Н	-52.86	10.00	D.
	1753.11	Н	-45.34	-13.00	Pass
	4101.82	Н	-53.77		
	9964.09	Н	-44.00		

The emission behaviour belongs to narrowband spurious emission.

^{1.} 2. The emission levels of not record in the report are very lower than the limit and not show in test report.

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		WCDM	IA Band V		
Channel	Frequency	Spurious	Emission	Limit (dBm)	Result
Channel	(MHz)	Polarization	Level (dBm)	Limit (ubin)	Result
	41.46	Vertical	-70.68		
-	200.36	V	-67.20		
	1933.18	V	-44.63	12.00	Door
	2519.18	V	-45.19	-13.00	Pass
	3700.48	V	-48.08		
4400	9054.58	V	-45.56		
4132	200.36	Horizontal	-69.37		
	307.70	Н	-65.30		
	1321.87	Н	-55.31	40.00	Dana
	2580.81	Н	-47.85	-13.00	Pass
	3700.48	Н	-49.70		
	5554.08 H -49.53	-49.53			
	41.31	Vertical	-69.72		Pass
	378.65	V	-62.30	-13.00	
	1753.11	V	-47.52		
	2519.18	V	-45.51		
	3754.53	V	-50.80		
	5635.22	V	-46.85		
4183	163.97	Horizontal	-69.55		
	615.16	Н	-63.66		Pass
	1256.73	Н	-54.55	40.00	
	1960.99	Н	-39.94	-13.00	
	3754.53	Н	-49.21		
	5643.40	Н	-49.61	-13.00	
	200.36	Vertical	-68.08		
	378.65	V	-62.59		
	1989.20	V	-43.75	40.00	-
	2519.18	V	-45.44	-13.00	Pass
	3809.38	V	-52.63		
40	5717.54	V	-44.86		
4233	266.39	Horizontal	-65.33		
	615.16	Н	-63.45		
	1260.88	Н	-55.03		_
	1989.20	Н	-41.52	-13.00	Pass
	3809.38	Н	-49.65		
	5076.48	Н	-52.98		

Remark:

^{1.}

The emission behaviour belongs to narrowband spurious emission.

The emission levels of not record in the report are very lower than the limit and not show in test report. 2.

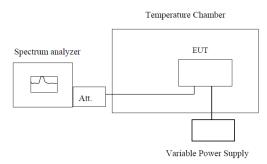
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5.7. Frequency stability V.S. Temperature measurement

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.
- Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25[°]C 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 MODE:

Please refer to the clause 3.3

TEST RESULTS

Note: Worst case at GSM850/DCS1800/WCDMA B2/B5 mid channel

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Refe	erence Frequency: G	SM850 Middle cha	annel=190 chann	el=836.6MHz	
Power supplied	Temperature (°C)	Frequer	ncy error	Limit (ppm)	Result
(Vdc)	Temperature (C)	Hz	ppm	Limit (ppin)	Result
	-30	31	0.037		
	-20	25	0.030		
	-10	22	0.026		
	0	17	0.020		
3.70	10	14	0.017	2.5	Pass
	20	11	0.013		
	30	17	0.020	=	
	40	19	0.023		
	50	23	0.027		
Refe	erence Frequency: PC	CS1900 Middle ch	annel=661 chanr	nel=1880MHz	
Power supplied	Temperature (℃)	Frequency error		Limit (nnm)	Popult
(Vdc)	remperature (C)	Hz	ppm	Limit (ppm)	Result
	-30	38	0.020		
	-20	33	0.018		
	-10	29	0.015		
	0	26	0.014		
3.70	10	25	0.013	2.5	Pass
	20	21	0.011		
	30	24	0.013		
	40	27	0.014		
	70	— '	0.0		

Referen	Reference Frequency: WCDMA Band II Middle channel=9400 channel=1880MHz							
Power supplied	Temperature (°C)	Frequency error		Limit (ppm)	Result			
(Vdc)	remperature (C)	Hz	ppm	Limit (ppin)	Result			
	-30	24	0.013					
	-20	23	0.012					
	-10	19	0.010					
	0	17	0.009					
3.70	10	15	0.008	2.5	Pass			
	20	13	0.007					
	30	16	0.009	1				
	40	17	0.009					
	50	21	0.011					
Reference	ce Frequency: WCDM	A Band V Middle	channel=4183 ch	annel=836.6MH	Z			
Power supplied	Town a return (°C)	Frequency error		Limit (mmm)	Describ			
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result			
	-30	29	0.035					
	-20	22	0.026					
	-10	19	0.023					
	0	13	0.016					
3.70	10	11	0.013	2.5	Pass			
	20	8	0.010					
	30	12	0.014	1				
	40	15	0.018		<u> </u>			
	50	18	0.022					

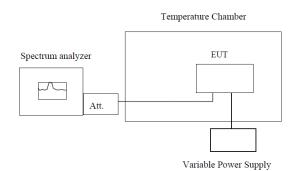
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5.8. Frequency stability V.S. Voltage measurement

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 MODE:

Please refer to the clause 3.3

TEST RESULTS

Note:Worst case at GSM850/DCS1800/WCDMA B2/B5 mid channel

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Referenc	e Frequency: GSM85	0 (GSM link) Midd	lle channel=190 d	channel=836.6Ml	-lz
Tomporatura (°C)	Power supplied	Frequen	cy error	Limit (ppm)	Result
Temperature (℃)	(Vdc)	Hz	ppm	Limit (ppin)	Result
	4.20	15	0.018		
25	3.70	12	0.014	2.5	Pass
	3.50	18	0.022		
Reference	e Frequency: PCS190	00 (GSM link) Mid	dle channel=661	channel=1880MI	Нz
Temperature (°C)	Power supplied	Frequen	cy error	Limit (ppm)	Result
remperature (C)	(Vdc)	Hz	ppm	Limit (ppin)	Resuit
25	4.20	31	0.016		
	3.70	21	0.011	2.5	Pass
	3.50	35	0.019		
Referen	ce Frequency: WCDN	MA Band II Middle	channel=9400 c	hannel=1880MH	7
Temperature (°C)	Power supplied	Frequen	cy error	Limit	(ppm)
remperature (C)	(Vdc)	Hz	ppm	Res	sult
	4.20	15	0.008		
25	3.70	13	0.007	2.5	Pass
	3.50	19	0.010		
Referen	ce Frequency: WCDN	MA Band V Middle	channel=4183 cl	hannel=836.6MH	Z
Temperature (°C)	Power supplied	Frequen	cy error	Limit (ppm)	Result
remperature (C)	(Vdc)	Hz	ppm	Littit (ppitt)	IVESUIL
	4.20	12	0.014		
25	3.70	8	0.010	2.5	Pass
	3.50	17	0.020		

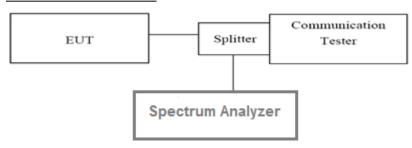
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5.9. Peak-Average Ratio

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 MODE:

Please refer to the clause 3.3

TEST RESULTS

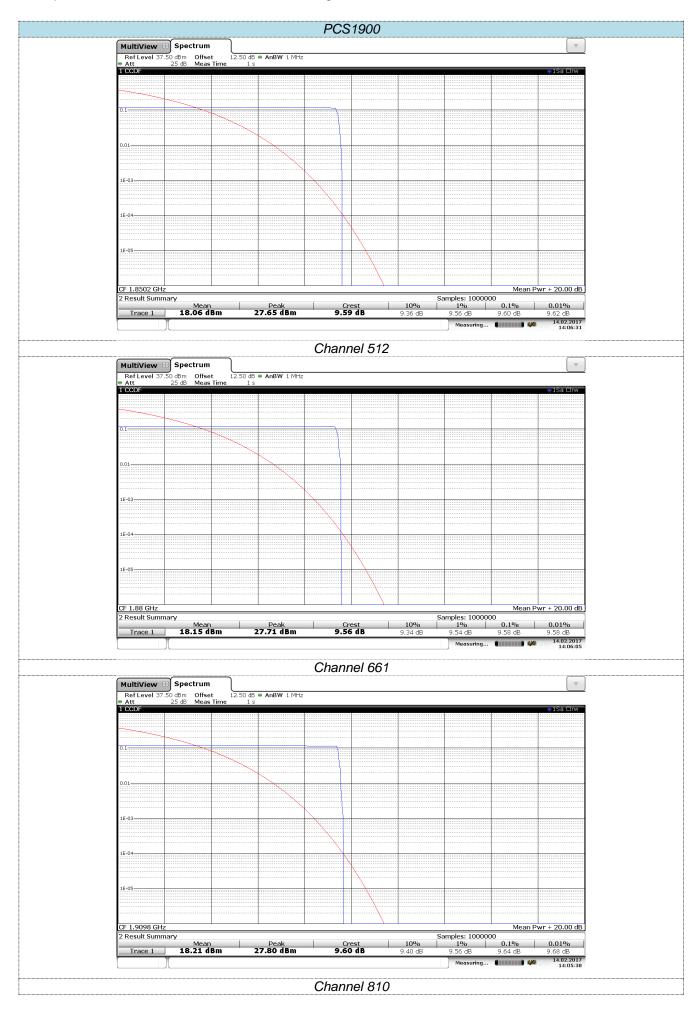
Note:Worst case GSM1900, ,WCDMA BAND1900

Band	Channel	Frequency(MHz)	PAR	Limit(dB)	Result
	512	1850.20	9.60	13.00	Pass
GSM1900	661	1880.00	9.58	13.00	Pass
	810	1909.80	9.64	13.00	Pass

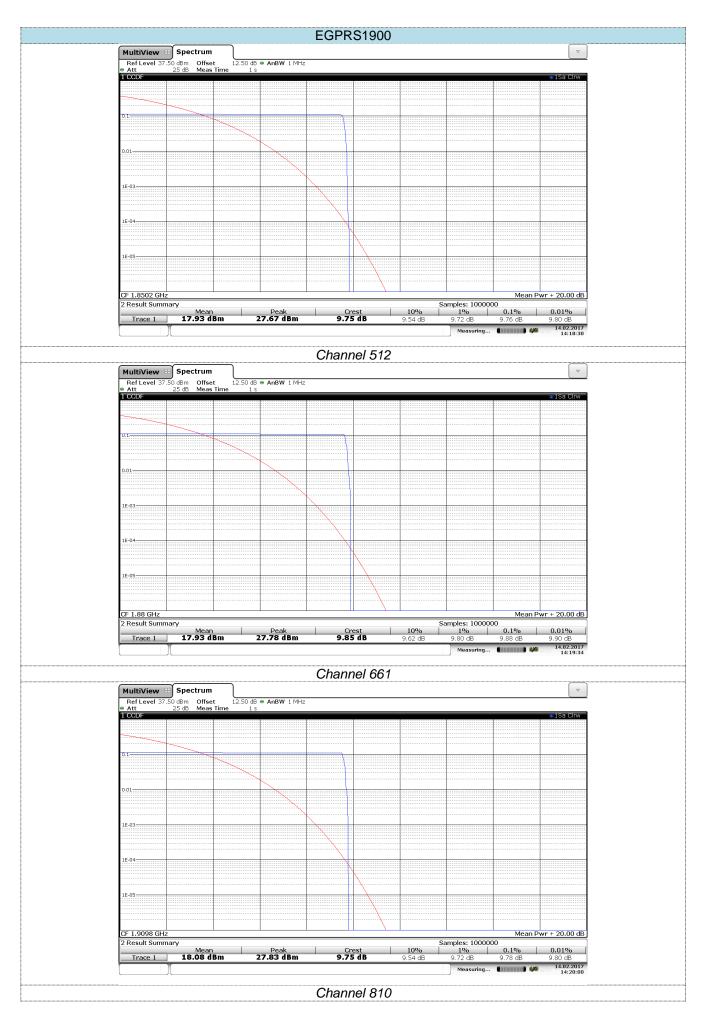
Band	Channel	Frequency(MHz)	PAR	Limit(dB)	Result
EGPRS1900	512	1850.20	9.88	13.00	Pass
	661	1880.00	9.56	13.00	Pass
	810	1909.80	9.78	13.00	Pass

Band	Channel	Frequency(MHz)	PAR	Limit(dB)	Result
WCDMA BAND	9262	1852.40	2.80	13.00	Pass
	9400	1880.00	2.72	13.00	Pass
	9538	1907.60	2.72	13.00	Pass

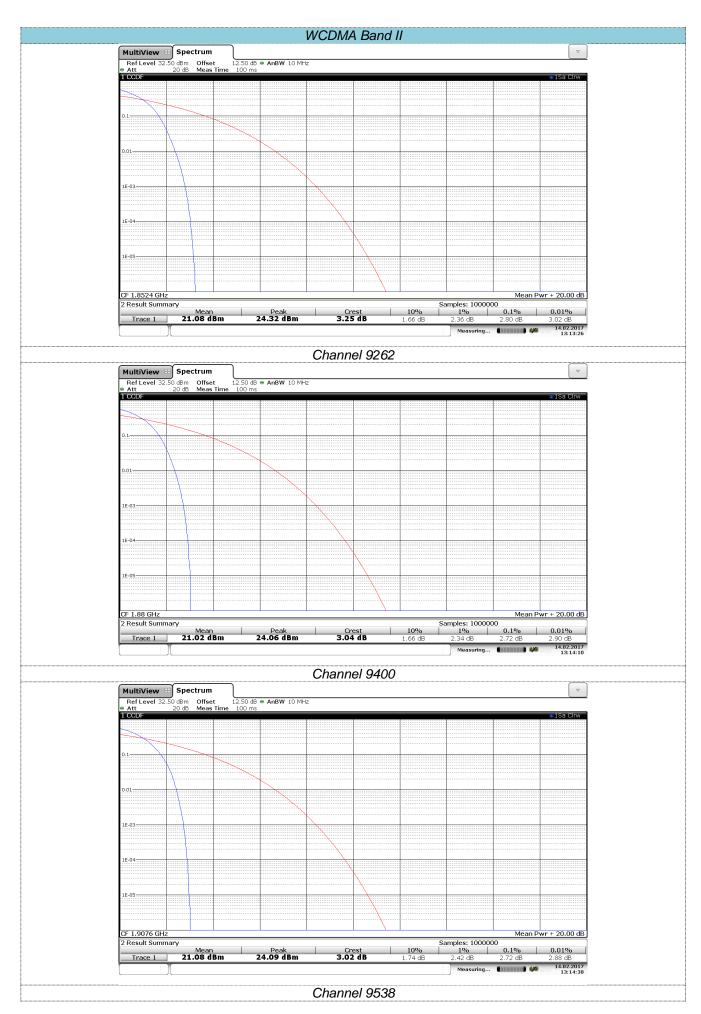
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6. Test Setup Photos of the EUT

Radiated emission:





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7. External and Internal Photos of the EUT

External photos of the EUT







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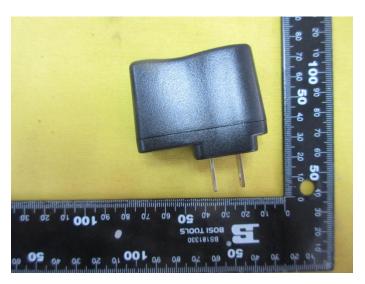






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Internal photos of the EUT

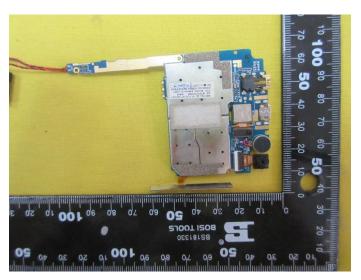


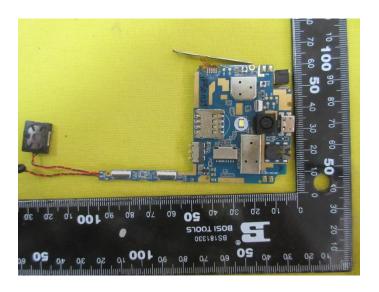




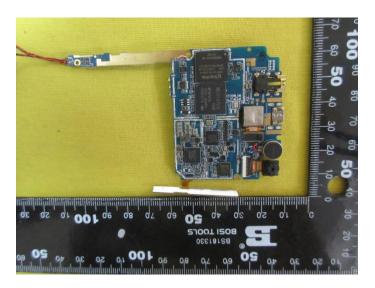
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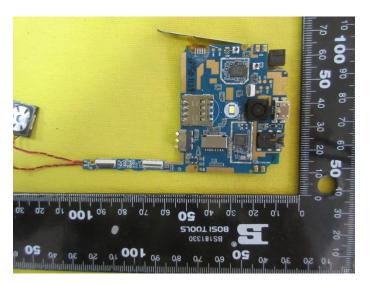




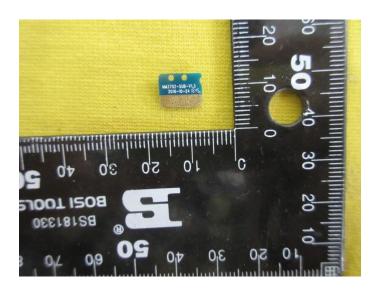


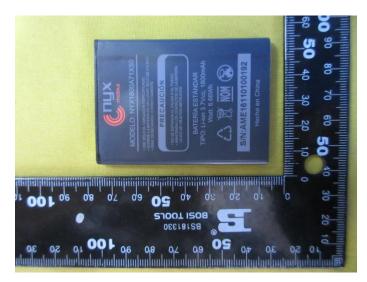
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-----End of Report-----