

Shenzhen Huatongwei International Inspection Co., Ltd.

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FCC REPORT

Report Reference No.....:: TRE1710003001 R/C....: 63111

FCC ID.....:: 2AAA6-S319T

Applicant's name.....: **SENWA MEXICO, S.A.DE C.V**

Address....: Av. Javier Barros Sierra 540, Torre I, Planta 5, COL. LOMAS DE

SANTA FE DELEGACION, ALVARO OBREGON, Mexico

Manufacturer....: Senwa Mobile HK Itd

Room 910, International Trade Centre 11-19 Sha Tsui Road, Address....:

Tsuen Wan, NT, HK

Mobile Phone Test item description:

SENWA Trade Mark:

Model/Type reference.....: S319T

Listed Model(s):

FCC Part 22: PUBLIC MOBILE SERVICES Standard::

FCC Part 24: PERSONAL COMMUNICATIONS SERVICES

Date of receipt of test sample..... Oct.12, 2017

Date of testing.....: Oct.13, 2017 - Oct.31, 2017

Date of issue....: Nov.01, 2017

Result.....: **Pass**

Compiled by

(position+printedname+signature)...: File administrators Candy Liu Candy Liu,

Supervised by

(position+printedname+signature)....: Project Engineer: Edward Pan

Approved by

(position+printedname+signature)....: Manager Hans Hu

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

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

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

FCC Part 27:MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

TIA/EIA 603 D June 2010: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 REGULATIONS

<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	Nov.01, 2017	Original

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2. Test Description

Test Item	Section in CFR 47	Result	Test Engineer
	Part 2.1046		
RF Output Power	Part 22.913(a)	Pass	William Wang
	Part 24.232(c)		
000/ 9 00 dD Occurried	Part 2.1049		
99% & -26 dB Occupied Bandwidth	Part 22.917(b)	Pass	William Wang
Baridwidth	Part 24.238(b)		
	Part 2.1051		
Conducted Spurious Emissions	Part 22.917	Pass	William Wang
	Part 24.238		
	Part 2.1051		
Band Edge	Part 22.917	Pass	William Wang
	Part 24.238		
	Part 22.913(a)	Door	MUII and Muse
ERP and EIRP	Part 24.232(b)	Pass	William Wang
	Part 2.1053		
Radiated Spurious Emissions	Part 22.917	Pass	William Wang
	Part 24.238		
F	Part 2.1055(a)(1)(b)		
Frequency stability vs. temperature	Part 22.355	Pass	William Wang
temperature	Part 24.235		
	Part 2.1055(d)(1)(2)		
Frequency stability vs. voltage	Part 22.355	Pass	William Wang
	Part 24.235		
Peak-Average Ratio	Part 24.232	Pass	William Wang

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

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3. **SUMMARY**

3.1. Client Information

Applicant:	SENWA MEXICO,S.A.DE C.V
Address:	Av.Javier Barros Sierra 540, Torre I, Planta 5, COL.LOMAS DE SANTA FE DELEGACION, ALVARO OBREGON, Mexico
Manufacturer:	Senwa Mobile HK ltd
Address:	Room 910,International Trade Centre 11-19 Sha Tsui Road, Tsuen Wan,NT,HK

3.2. Product Description

Name of EUT:	Mobile Phone
Trade Mark:	SENWA
Model No.:	S319T
Listed Model(s):	-
IMEI 1:	352308090001323
Power supply:	DC 3.7V From exchange battery
Adapter information:	Input: 100-240Va.c., 50/60Hz, 0.15A Output: 5Vd.c.,500mA
Hardware version:	sc7701_barphone
Software version:	SENWA_S319T_Ver1.0
2G:	
Support Network:	GSM, GPRS, EGPRS
Support Band:	GSM850, PCS1900
Modulation:	GSM/GPRS/EGPRS: GMSK
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:	PIFA Antenna
Antenna gain:	GSM850: 0.3dBi PCS1900: 0.6dBi
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:	PIFA Antenna
Antenna gain:	Band II: 0.6dBi,Band V:0.3dBi

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3.3. Operation state

> Test frequency list

GSM850		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 (MF		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. Testing was performed by configuring EUT to maimum output power status.

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

4.2. Test Facility

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.

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.

FCC-Registration No.: 762235

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.

IC-Registration No.:5377B-1

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-1.

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

RF Co	onducted				
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13
2	WIDEB.RADIO COMM.TESRER	Rohde&Schwarz	CMW500	1201.0002K50	2016/11/13
3	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
4	MXA Signal Analyzer	Agilent Technologies	N9020A	MY5050187	2016/11/13
5	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13
6	Climate Chamber	ESPEC	EL-10KA	05107008	2016/11/13

RF Ra	adiated				
No.	Equipment	Manufacturer	Model No.	SerialNo.	Last Cal.
1	UNIVERSAL RADIO COMMUNICATION	Rohde&Schwarz	CMU200	112012	2016/11/13
2	WIDEB.RADIO COMM.TESRER	Rohde&Schwarz	CMW500	1201.0002K50	2016/11/13
3	Spectrum Analyzer	Rohde&Schwarz	FSU26	201141	2016/11/13
4	HORNANTENNA	ShwarzBeck	9120D	1012	2016/11/13
5	HORNANTENNA	ShwarzBeck	9120D	1011	2016/11/13
6	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
7	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	539	2016/11/13
8	TURNTABLE	MATURO	TT2.0		N/A
9	ANTENNA MAST	MATURO	TAM-4.0-P		N/A
10	EMI Test Software	Audix	E3	N/A	N/A
11	EMI Test Receiver	Rohde&Schwarz	ESIB 26	100009	2016/11/13
12	RF Test Panel	Rohde&Schwarz	TS / RSP	335015/0017	2016/11/13
13	High pass filter	Compliance Direction systems	BSU-6	34202	2016/11/13
14	Splitter	Mini-Circuit	ZAPD-4	400059	2016/11/13
15	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2016/11/13
16	Horn Antenna	SCHWARZBECK	BBHA9170	25842	2016/11/13
17	Preamplifier	ShwarzBeck	BBV 9718	BBV 9718	2016/11/13
18	Broadband Preamplifier	ShwarzBeck	BBV743	9743-0079	2016/11/13
19	Signal Generator	Rohde&Schwarz	SMF100A	101932	2016/11/13
20	Amplifer	Compliance Direction systems	PAP1-4060	120	2016/11/13
21	TURNTABLE	ETS	2088	2149	2016/11/13
22	ANTENNA MAST	ETS	2075	2346	2016/11/13
23	HORNANTENNA	Rohde&Schwarz	HF906	100068	2016/11/13
24	HORNANTENNA	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 compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of 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	MeasurementUncertainty	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)

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

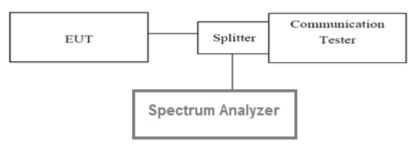
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5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output port was connected to base station.
- 2. The RF output of EUT was connected to the spectrum analyzer 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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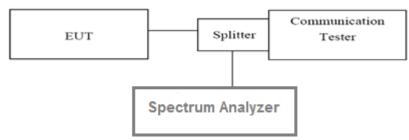
EUT Mode	Channel	Frequency (MHz)	Power (dBm)
	128	824.20	32.80
GSM 850 (GMSK)	190	836.60	32.51
(GWOIT)	251	848.80	32.87
	128	824.20	32.80
GPRS850 (GMSK,1Slot)	190	836.60	32.51
(GWOR, FOIOL)	251	848.80	32.87
F000000	128	824.20	32.78
EGPRS850 (GMSK,1Slot)	190	836.60	32.51
	251	848.80	32.89
PCS1900 (GMSK)	512	1850.20	29.11
	661	1880.00	29.22
	810	1909.80	29.19
	512	1850.20	29.08
GPRS1900 (GMSK 1Slot)	661	1880.00	29.21
(GMSK,1Slot)	810	1909.80	29.20
	512	1850.20	29.10
EGPRS1900 (GMSK,1Slot)	661	1880.00	29.21
(GIVISIX, ISIOI)	810	1909.80	29.18
	9262	1852.40	22.56
WCDMA Band II	9400	1880.00	22.60
	9538	1907.60	22.63
	4132	826.40	23.36
WCDMA Band V	4183	836.60	23.20
	4233	846.60	23.27

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5.2. 99% & -26 dB Occupied Bandwidth

LIMIT N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
- 2. RBWwas 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	244.75	321.40
GSM 850 (GMSK)	190	836.60	243.75	322.90
(OMOR)	251	848.80	245.75	320.60
	128	824.20	242.75	320.10
GPRS850 (GMSK,1Slot)	190	836.60	244.75	320.50
(GIVISK, 13101)	251	848.80	242.75	319.90
5000000	128	824.20	243.75	322.90
EGPRS850 (GMSK,1Slot)	190	836.60	245.75	322.40
	251	848.80	245.75	321.30
	512	1850.20	244.75	319.40
PCS1900 (GMSK)	661	1880.00	244.75	320.40
	810	1909.80	243.75	322.20
	512	1850.20	243.75	324.90
GPRS1900 (GMSK,1Slot)	661	1880.00	244.75	319.60
(GIVISK, 13101)	810	1909.80	244.75	323.10
	512	1850.20	243.75	321.30
EGPRS1900 (GMSK,1Slot)	661	1880.00	243.75	321.60
(Giviort, rolot)	810	1909.80	245.75	319.60
	9262	1852.40	4095.90	4672.00
WCDMA Band II	9400	1880.00	4095.90	4669.00
	9538	1907.60	4085.91	4656.00
	4132	826.40	4075.92	4657.00
WCDMA Band V	4183	836.60	4085.91	4653.00
	4233	846.60	4075.92	4660.00

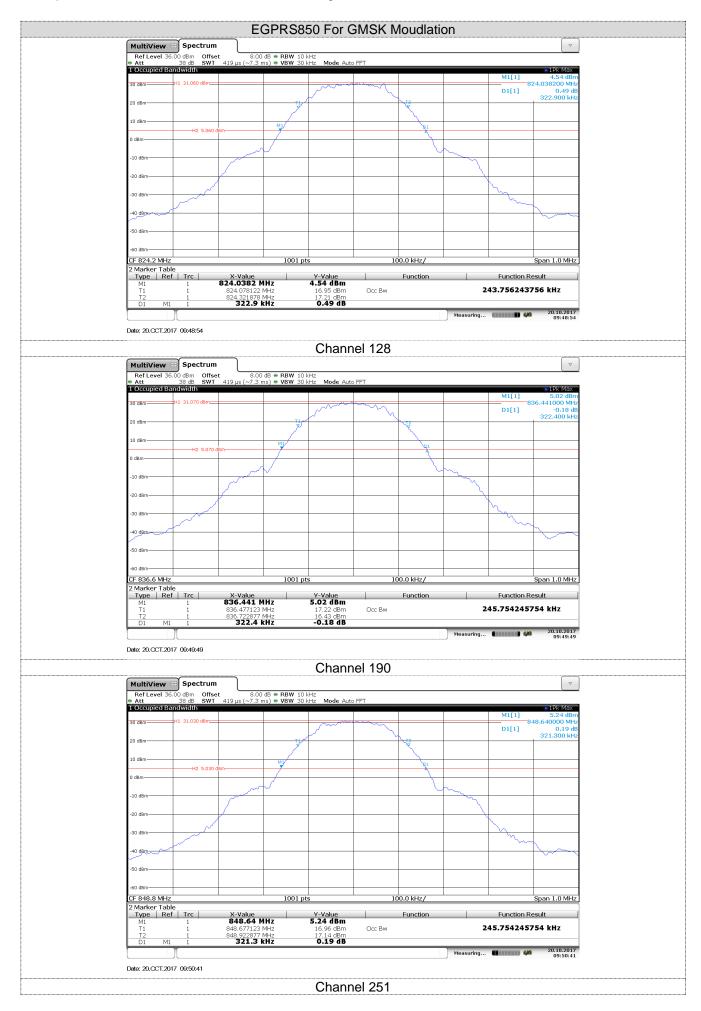
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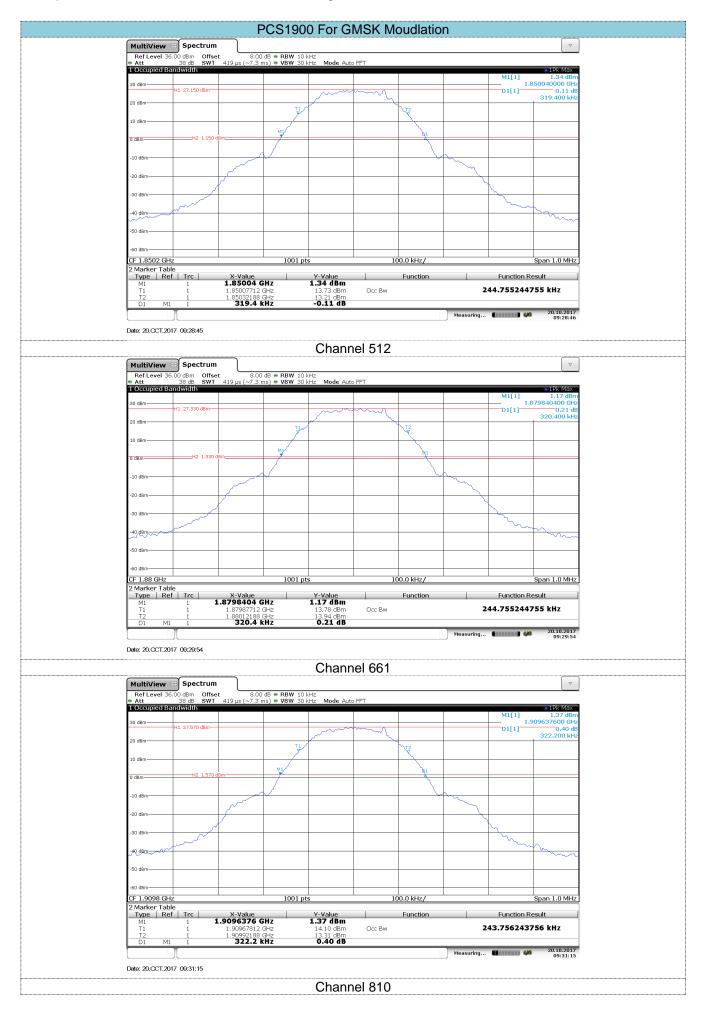
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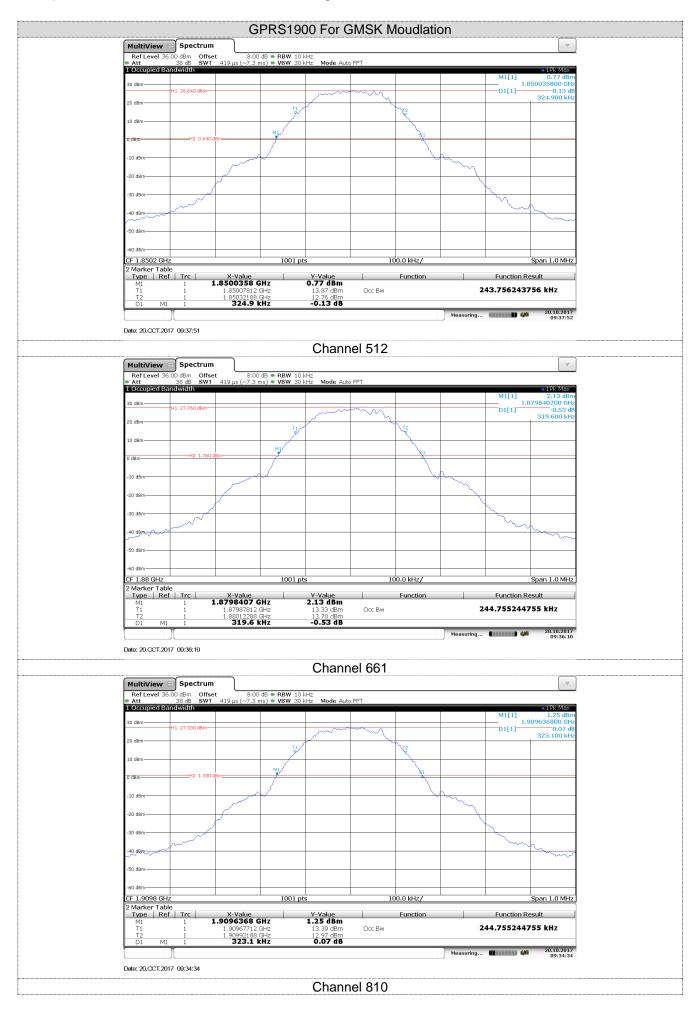
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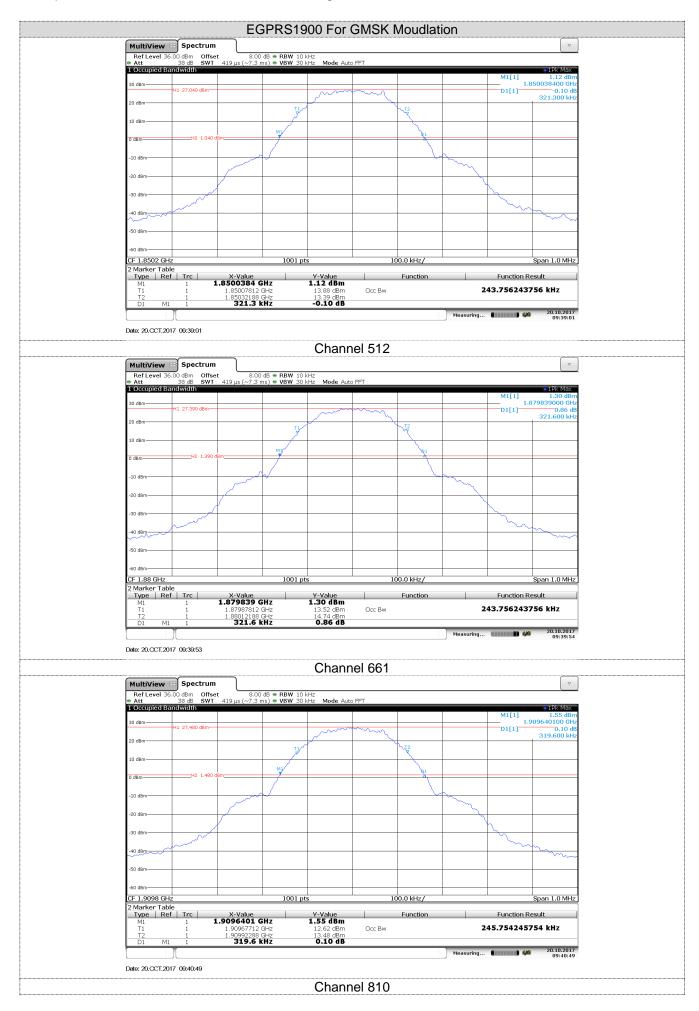
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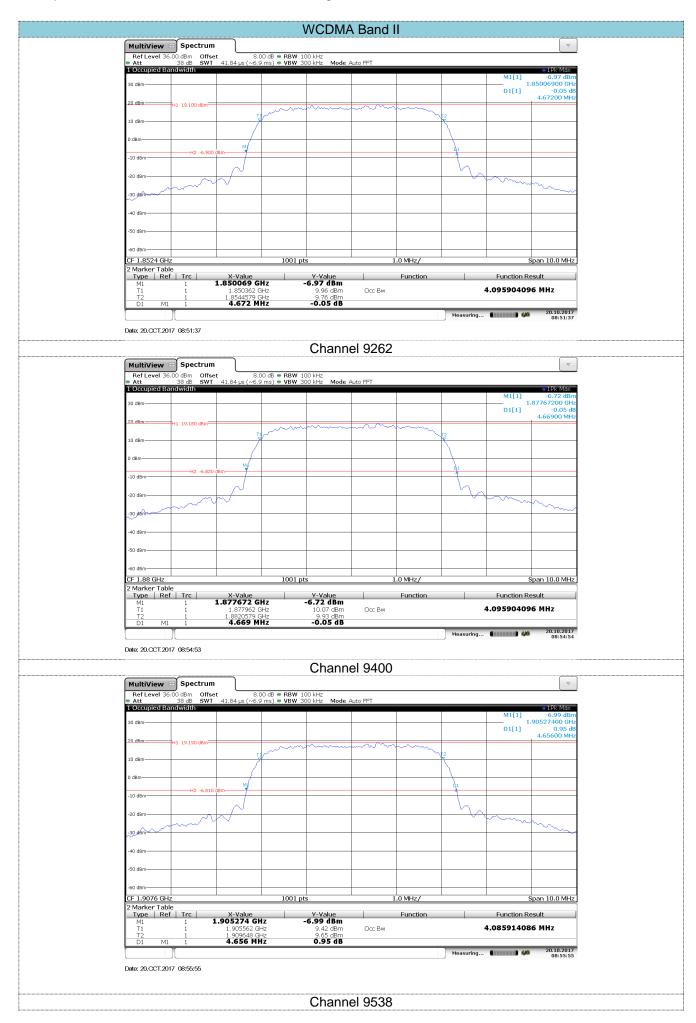
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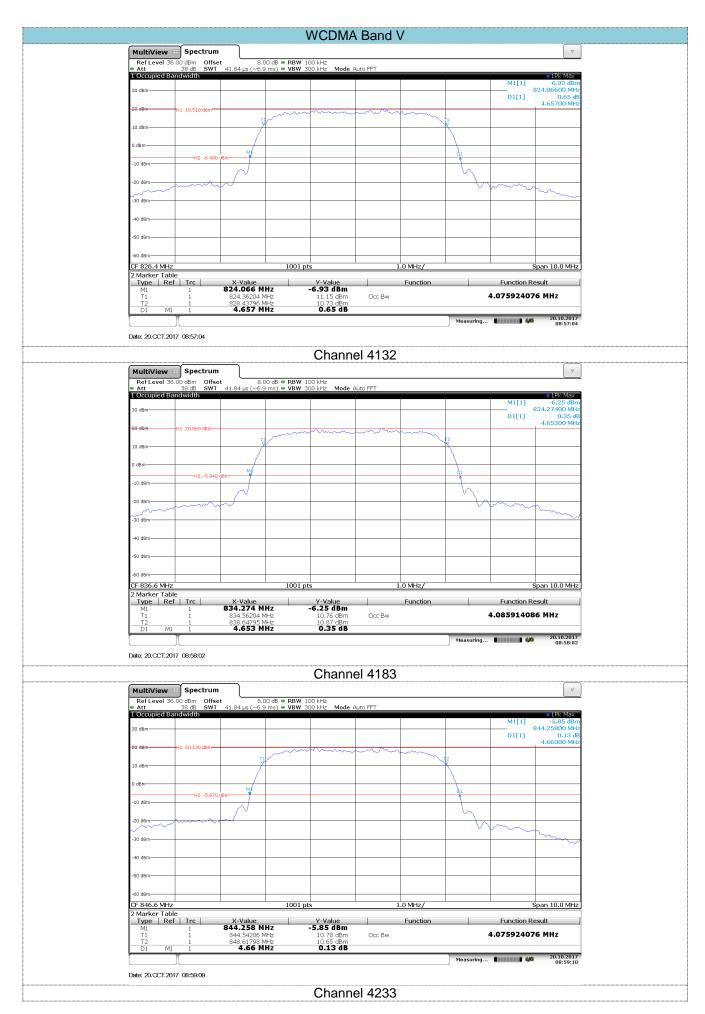
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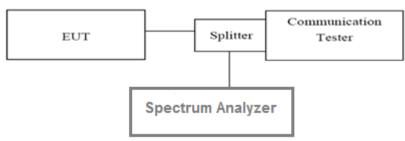
5.3. Conducted Spurious Emissions

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.
- The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficientscans 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:

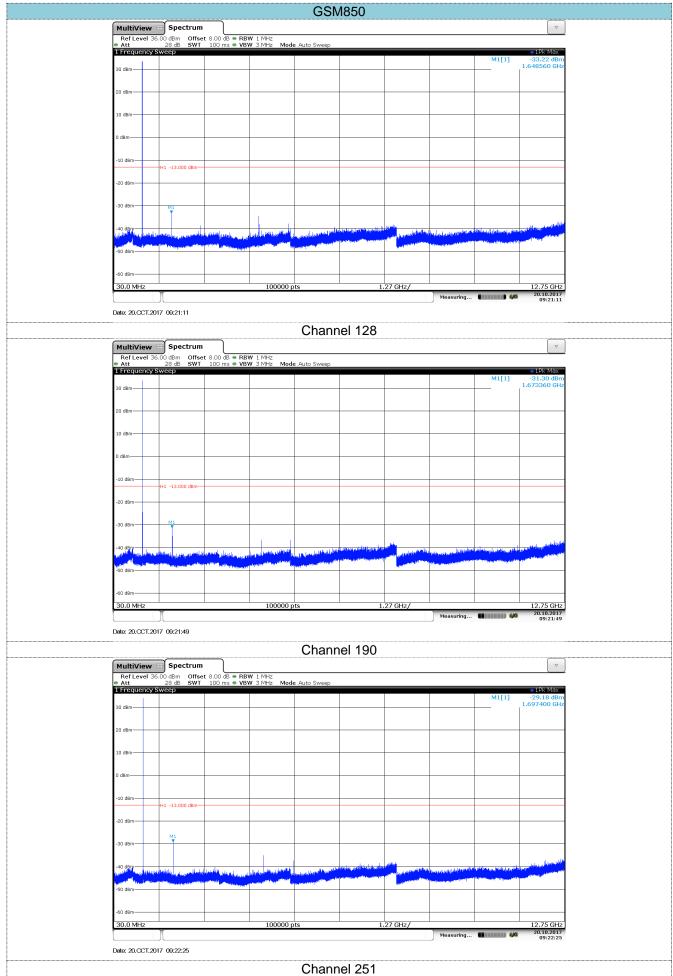
Please refer to the clause 3.3

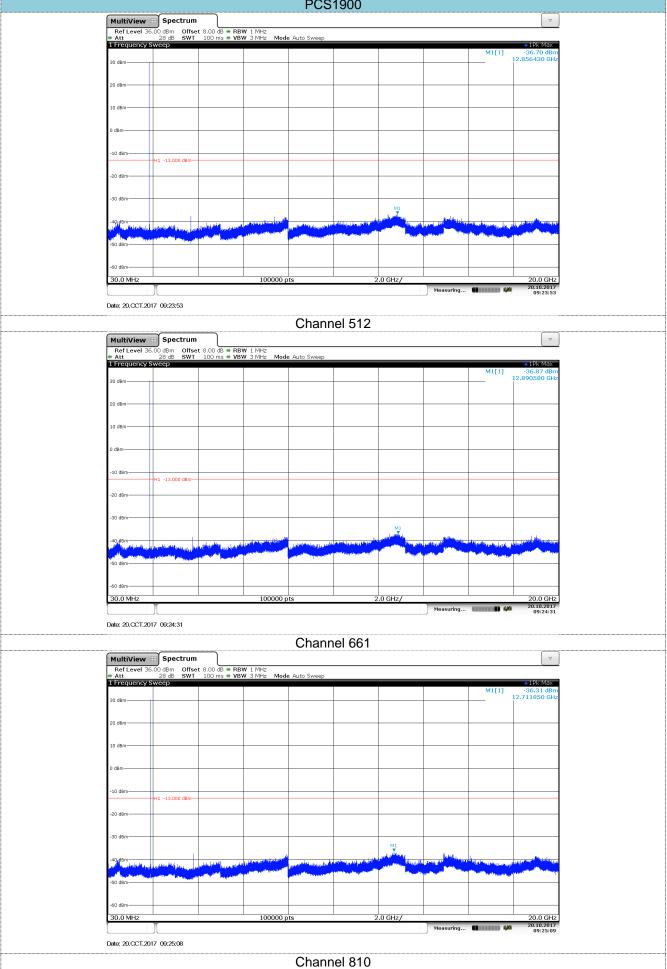
TEST RESULTS

Note:Worst case at GSM850/PCS1900/WCDMA B2/B5

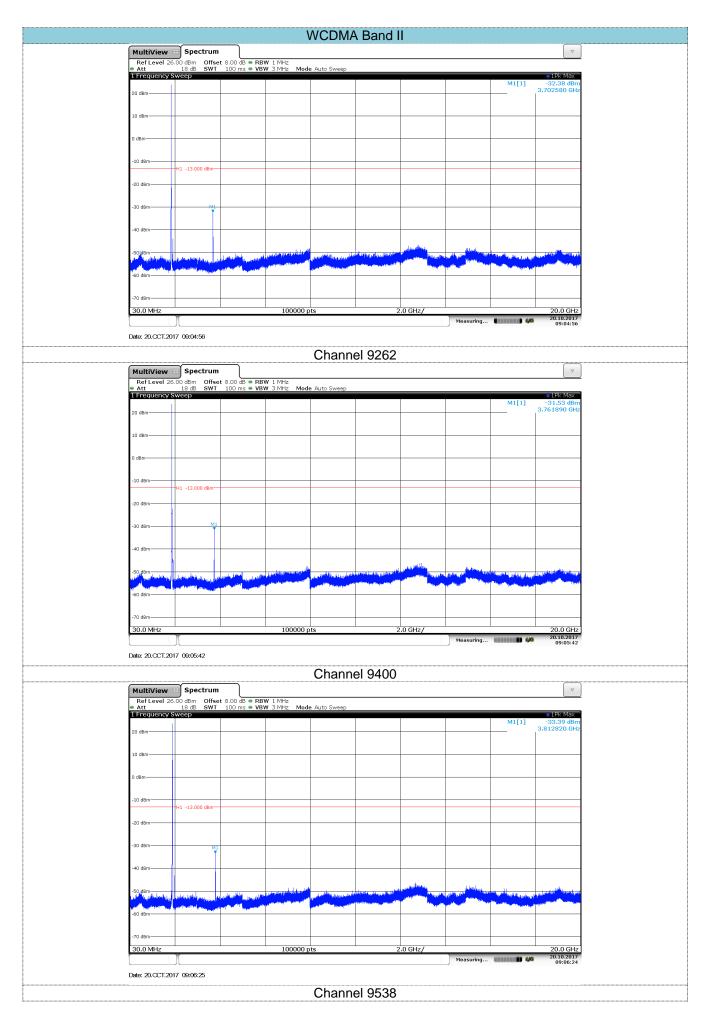
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GSM850

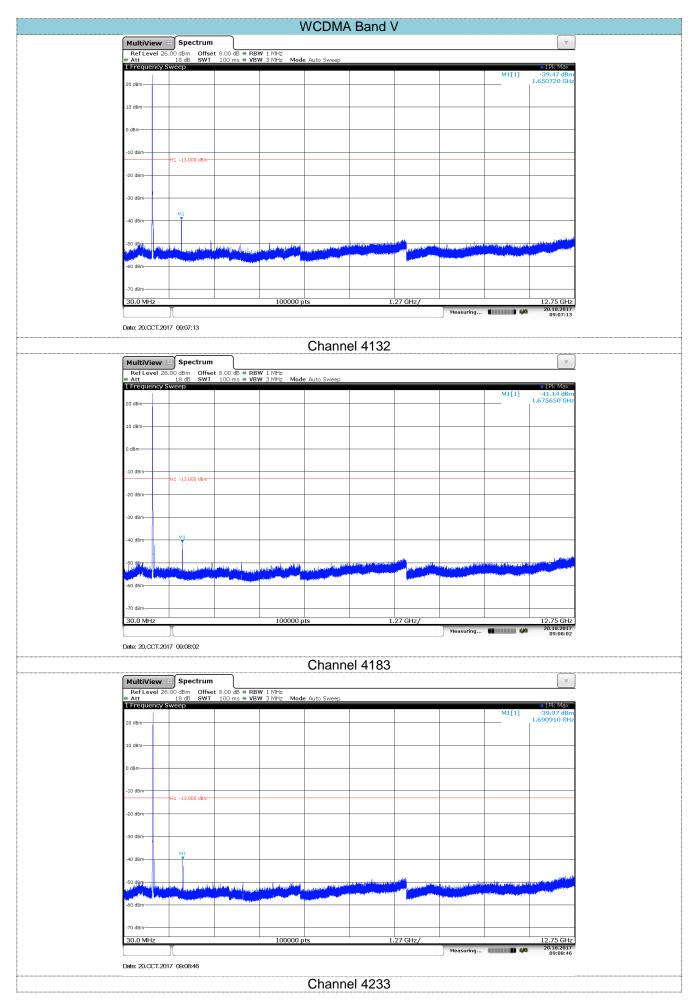




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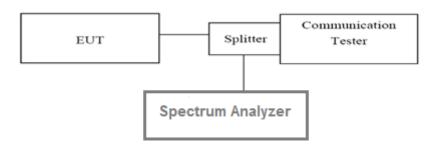
5.4. Band Edge

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 appropriateattenuation.
- 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 MODE:

Please refer to the clause 3.3

TEST RESULTS

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GSM850						
Channel	Frequency	Measureme	nt Results	Limit	Verdict	
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict	
128	824.2	824	-13.81	-13.00	Pass	
251	848.8	849	-15.91	-13.00	Pass	

	GPRS850						
Channel	Frequency	Measureme	nt Results	Limit	Verdict		
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict		
128	824.2	824	-15.62	-13.00	Pass		
251	848.8	849	-16.49	-13.00	Pass		

	EGPRS850					
Channel	Frequency	Measureme	nt Results	Limit	Verdict	
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict	
128	824.2	824	-16.49	-13.00	Pass	
251	848.8	849	-16.67	-13.00	Pass	

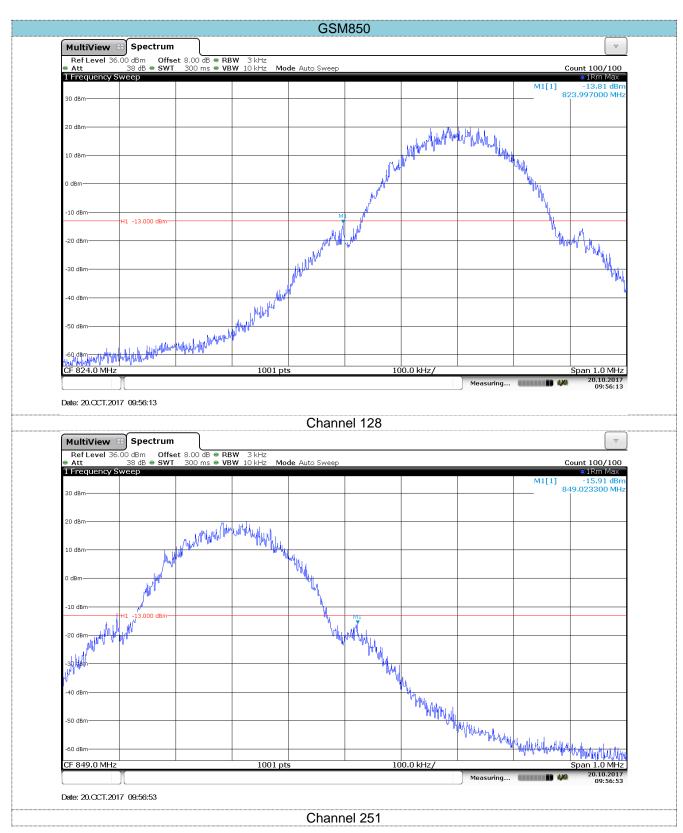
	PCS1900					
Channel	Channel Frequency Measurement Results				Verdict	
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict	
512	1850.2	1850	-16.63	-13.00	Pass	
810	1909.8	1910	-15.98	-13.00	Pass	

	GPRS1900					
Channel	Frequency	Measureme	nt Results	Limit	Verdict	
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict	
512	1850.2	1850	-15.58	-13.00	Pass	
810	1909.8	1910	-15.31	-13.00	Pass	

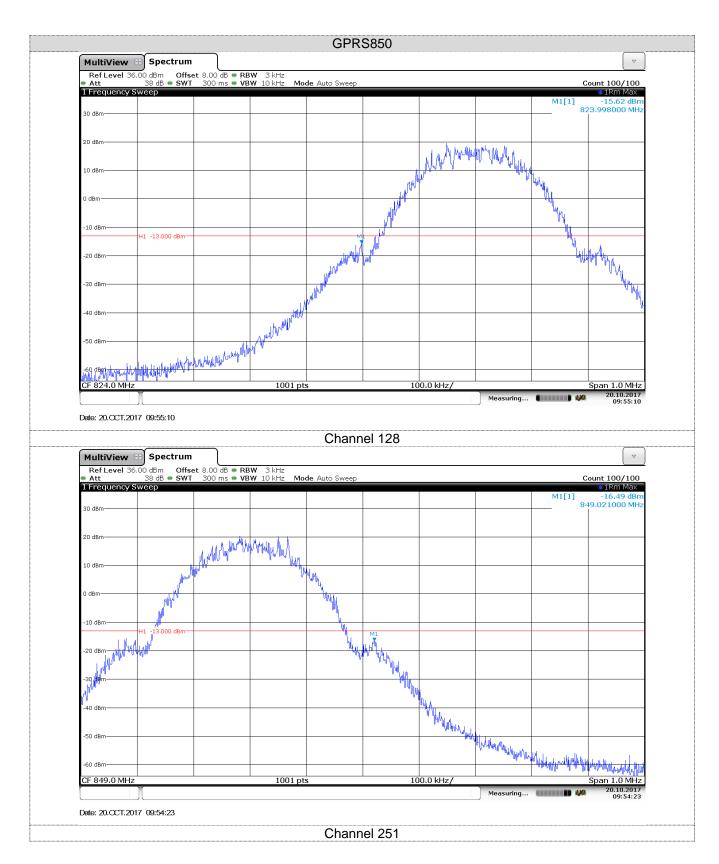
	EGPRS1900					
Channel	Channel Frequency Measurement Results				Verdict	
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict	
512	1850.2	1850	-16.16	-13.00	Pass	
810	1909.8	1910	-17.14	-13.00	Pass	

	WCDMA Band II						
Channel	Frequency	Measureme	nt Results	Limit	Verdict		
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict		
9262	1852.4	1850	-22.41	-13.00	Pass		
9538	1907.6	1910	-22.52	-13.00	Pass		

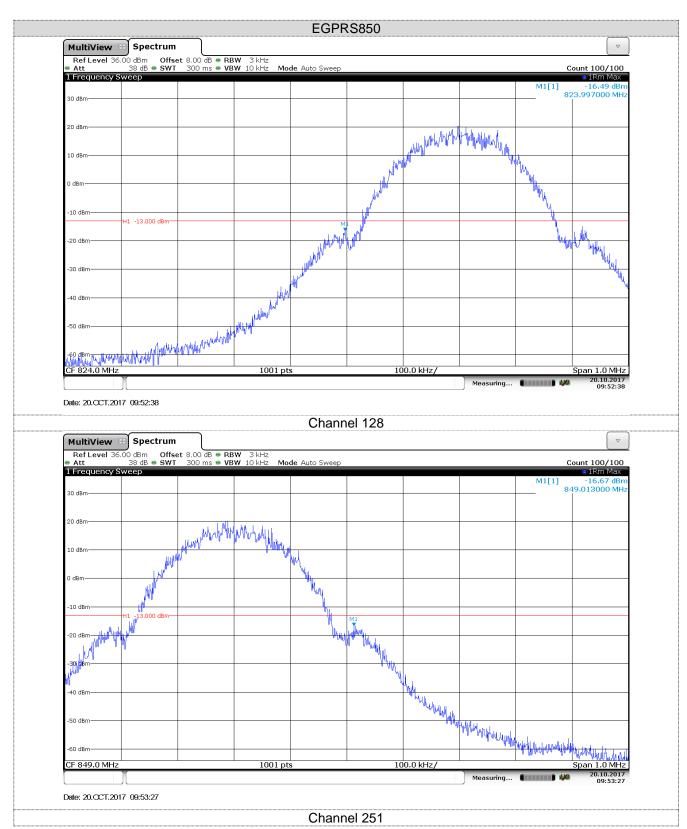
WCDMA Band V					
Channel Frequency Measurement Results Limit					Verdict
Number	(MHz)	Frequency(MHz)	Values(dBm)	(dBm)	verdict
4132	826.4	824	-20.25	-13.00	Pass
4233	846.6	849	-21.73	-13.00	Pass

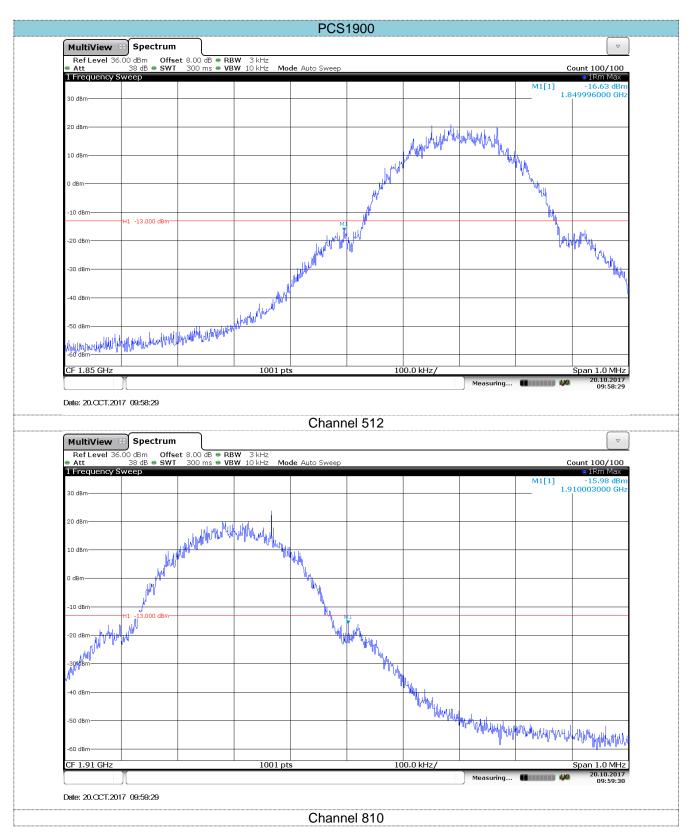


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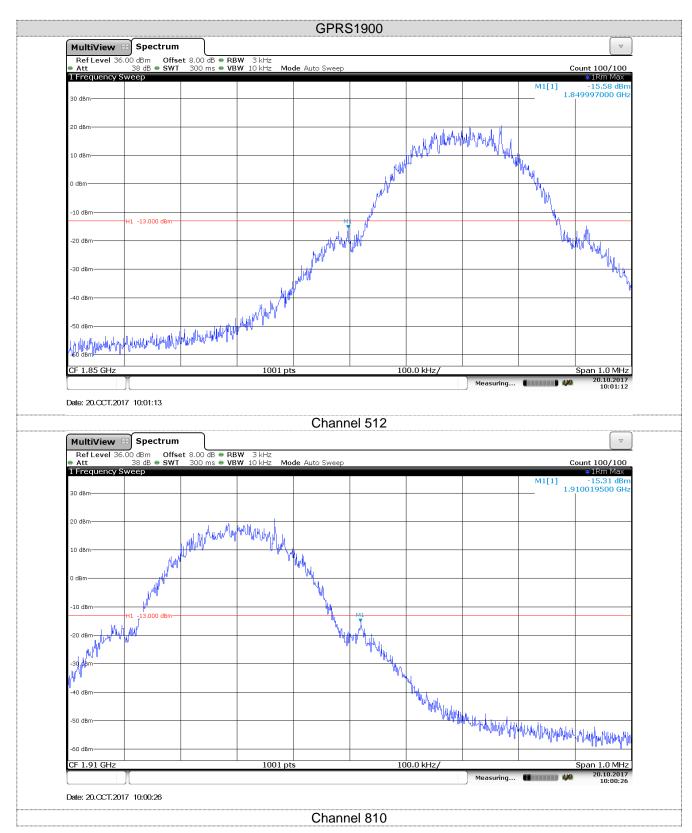


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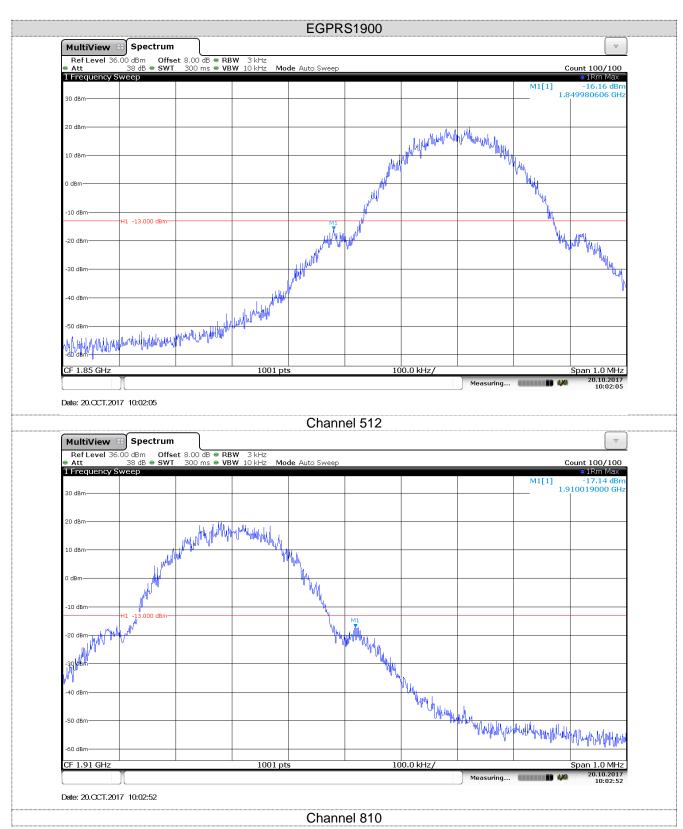




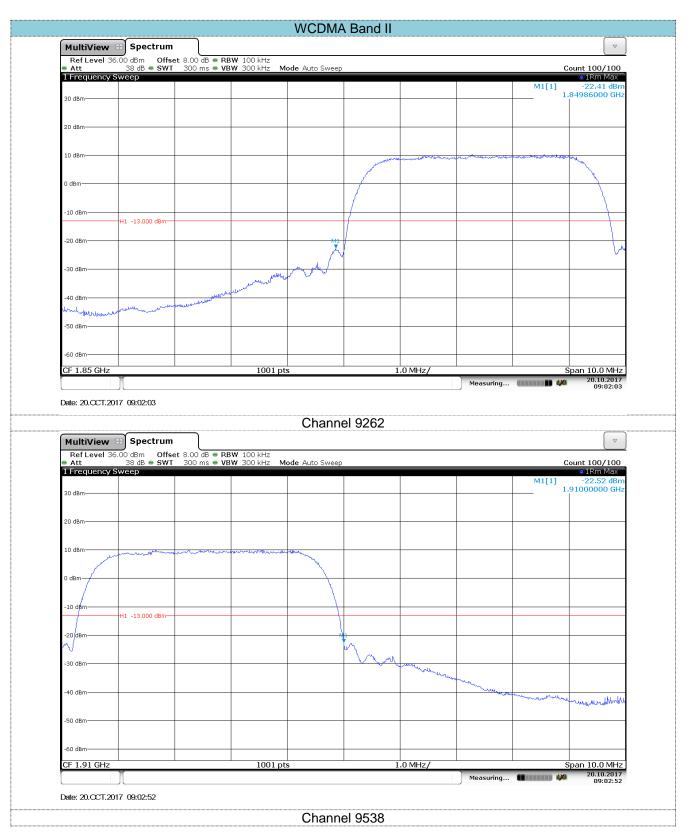
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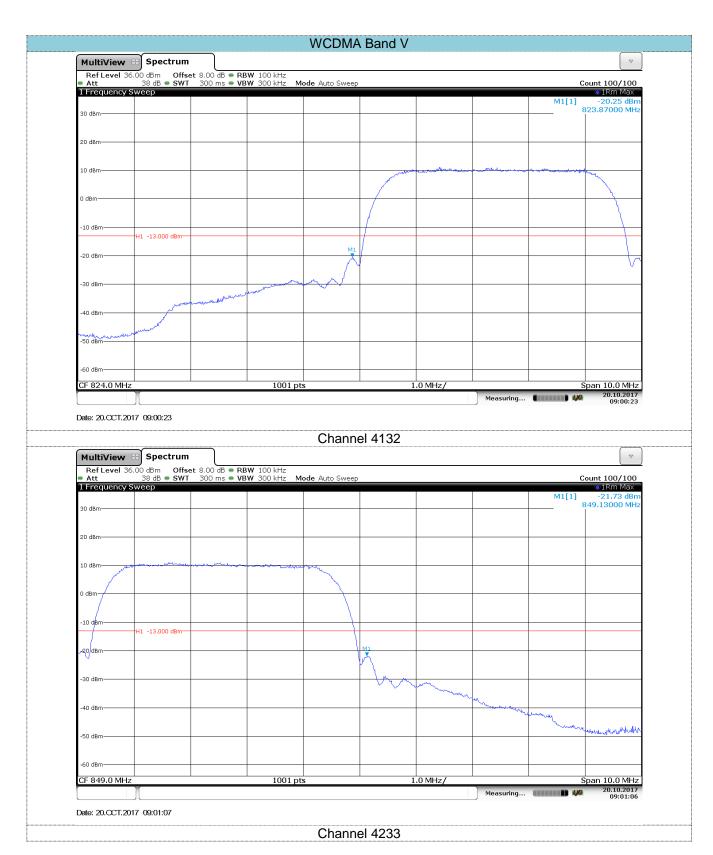
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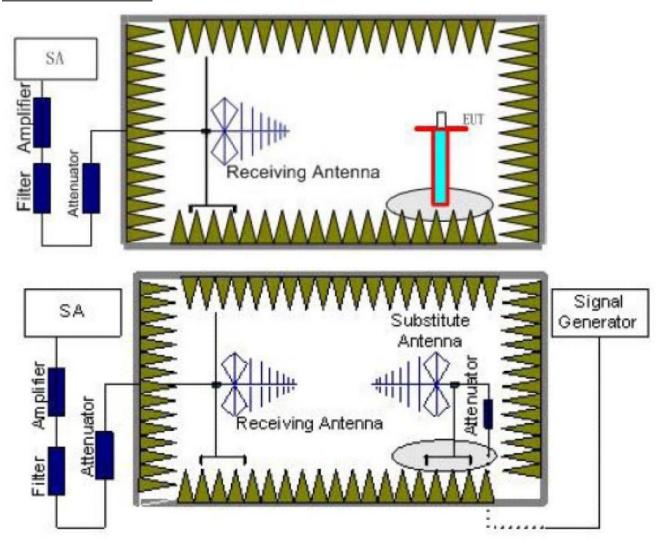
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5.5. ERP and EIRP

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

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frequency band of interest isconnected 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.

- 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
	128	V	32.68		
	120	Н	30.54		
GSM850	190	V	30.13	38.45	Pass
GSIVIOSO	190	Н	27.94	30.43	r ass
	251	V	33.84		
	231	Н	32.86		
	128	V	32.21		
	120	Н	28.79	38.45	Pass
GPRS850	190	V	29.68		
GF 13030		Н	27.87		
	251	V	32.97		
	231	Н	32.46		
	128	V	32.14		
	120	Н	27.88		
EGPRS850	190	V	29.61	38.45	Pass
EGF N3030	190	Н	32.68	36.43	1 033
	251	V	32.42		
	201	Н	32.13		

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Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
	512	V	25.58		
	312	Н	26.87		
PCS1900	661	V	25.30	33.00	Pass
1031900	001	Н	29.66	33.00	F 055
	810	V	25.76		
	010	Н	29.33		
	512	V	25.37		Pass
	012	Н	26.68	33.00	
GPRS1900	661 810	V	25.16		
GFK31900		Н	29.53		
		V	25.64		
	010	Н	29.17		
	512	V	24.89		
	312	Н	26.38		
EGPRS1900	661	V	24.97	33.00	Pass
EGFK31900	001	Н	28.43	33.00	F 033
	810	V	24.38		
	810	Н	28.77		

Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
	9262	V	22.02		Pass
		Н	21.50		
WCDMA Band II	9400 9538	V	17.63	33.00	
WCDIVIA Barid II		Н	20.03	33.00	Fass
		V	17.66		
		Н	19.61		

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result	
	4132	V	20.02		Pass	
	4132	Н	24.20			
WCDMA Band V	4183 4233	V	24.74	38.45		
WCDIVIA Bariu V		4103	Н	24.41	36.43	r ass
		V	25.11			
		Н	23.97			

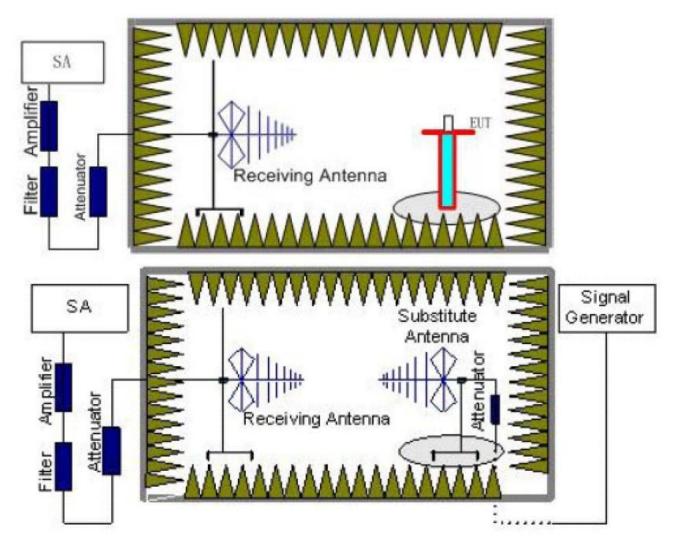
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5.6. Radiated Spurious Emission

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 isconnected 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/PCS1900/WCDMA B2/B5

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		GS	M850		
Channel	Frequency	Limit (dBm)	Result		
Chamer	(MHz)	Polarization	Level (dBm)	Limit (ubin)	Result
	74.59	Vertical	-57.54		
	319.84	V	-55.29		Dave
	1648.51	V	-42.14	-13.00	
	1945.97	V	-37.68	-13.00	Pass
	4119.70	V	-50.19		
400	4945.67	V	-43.00		
128	32.07	Horizontal	-45.31		
	319.84	Н	-55.03		
	1648.51	Н	-40.95	40.00	Dana
	2475.28	Н	-47.97	-13.00	Pass
	3295.11	Н	-52.61		
	4945.67	Н	-43.00		
	32.19	Vertical	-45.81		Pass
	259.91	V	-63.55		
	1674.06	V	-42.28	-13.00	
	2400.30	V	-50.83		
	4119.70	V	-53.25		
100	9041.46	V	-45.50		
190	34.78	Horizontal	-48.61		Pass
	259.91	Н	-53.44		
	1674.06	Н	-45.86	40.00	
	2456.32	Н	-49.80	-13.00	
	4119.70	Н	-56.96		
	7455.38	Н	-48.34		
	34.17	Vertical	-45.63		
	259.91	V	-54.62		
	1698.14	V	-41.05	40.00	5
	2129.41	V	-51.47	-13.00	Pass
	4240.94	V	-52.82		
.	8372.53	V	-46.92		
251	182.21	Horizontal	-55.32		
	259.91	Н	-54.13		
	1698.14	Н	-42.43	40.00	5
	2262.04	Н	-51.09	-13.00	Pass
	4240.94	Н	-52.82		
	6824.17	Н	-50.24		

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 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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		PC	S1900		
Channal	Frequency	Lineit (dDne)	Daguilt		
Channel	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
-	31.85	Vertical	-45.18		Pass
	259.91	V	-53.46		
	1259.49	V	-53.65	12.00	
	2060.37	V	-49.85	-13.00	
	3700.48	V	-42.23		
512	5554.08	V	-47.97		
512	182.21	Horizontal	-55.18		
	259.91	Н	-53.38		
	1457.65	Н	-53.27	40.00	Dana
	2426.82	Н	-47.13	-13.00	Pass
	3859.43	Н	-55.34		
	7401.51	Н	-44.51		
	74.85	Vertical	-57.82		Pass
	259.91	V	-51.97		
	1614.45	V	-53.52	-13.00	
	2397.67	V	-49.62		Pass
	3759.98	V	-55.00		
004	9609.30	V	-45.63		
661	88.61	Horizontal	-62.40		Pass
	259.91	Н	-53.38		
	1574.17	Н	-49.89	12.00	
	2459.02	Н	-43.44	-13.00	
	3759.98	Н	-48.90		
	7520.54	Н	-40.06		
	31.96	Vertical	-45.47		
	259.91	V	-54.24		
	1198.74	V	-47.55	-13.00	Doos
	2120.07	V	-50.84	-13.00	Pass
	3820.45	V	-41.41		
040	7641.47	V	-42.04		
810	36.15	Horizontal	-50.22		
	182.21	Н	-54.59		
	1612.68	Н	-53.56	12.00	Door
	2322.48	Н	-50.24	-13.00	Pass
	3820.45	Н	-49.08		
	7641.47	Н	-40.99		

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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		WCDM	IA Band II		
Channel	Channel Frequency Spurious Emission				Result
Charmer	(MHz)	Polarization	Level (dBm)	Limit (dBm)	Nesuit
	73.81	Vertical	-61.21		
	365.56	V	-65.99		
	1618.00	V	-54.19	-13.00	Pass
	2580.81	V	-47.04	-13.00	Fass
	3700.48	V	-40.68		
9262	5562.15	V	-44.52		
9202	73.81	Horizontal	-60.91		
	365.56	Н	-55.86		
	1618.00	Н	-46.74	42.00	Daga
	2580.81	Н	-47.98	-13.00	Pass
	3700.48	Н	-43.74		
	5562.15	Н	-43.61		
	33.34	Vertical	-45.59		Pass
	565.37	V	-52.56		
	1290.30	V	-53.72	-13.00	
	2580.81	V	-45.58		
	3759.98	V	-40.29		
	5643.40	V	-44.44		
9400	32.99	Horizontal	-46.51		
	565.37	Н	-59.32		
	1405.75	Н	-54.64		_
	2167.17	Н	-51.87	-13.00	Pass
	3759.98	Н	-46.32		
	5643.40	Н	-49.29		
	33.81	Vertical	-45.07		
	565.37	V	-55.19		
	1349.75	V	-54.65	40.00	_
	1945.97	V	-48.17	-13.00	Pass
	3814.91	V	-48.60		
	5725.84	V	-45.68		
9538	143.46	Horizontal	-61.99		
	835.32	Н	-52.83		
	1351.24	Н	-52.95		_
	2459.02	Н	-42.35	-13.00	Pass
	3814.91	Н	-44.56		
	5725.84	Н	-40.38		

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.

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			A Band V		
Channel	Frequency	Spurious		Limit (dBm)	Result
	(MHz)	Polarization	Level (dBm)	,	
	87.38	Vertical	-67.91		
	319.84	V	-54.77		
	1745.42	V	-36.33	-13.00	Pass
	1950.25	V	-48.08	10.00	1 455
	3304.69	V	-54.55		
4132	4107.77	V	-53.27		
4132	35.89	Horizontal	-48.24		
	319.84	Н	-57.82		
	1747.34	Н	-36.01	42.00	Daga
	2437.50	Н	-45.88	-13.00	Pass
	4019.37	Н	-56.90		
	8051.03	Н	-47.38		
	75.64	Vertical	-59.05		D
	319.84	V	-53.77		
	1290.30	V	-53.26	-13.00	
	1945.97	V	-42.15		Pass
	5017.92	V	-54.69		
	9978.55	V	-44.62		
4183	87.99	Horizontal	-63.23		
	200.36	Н	-63.92		
	1945.97	Н	-42.15		Pass
	2434.83	Н	-47.37	-13.00	
	4818.24	Н	-55.31		
	7520.54	Н	-47.67		
	32.99	Vertical	-45.74		
	319.84	V	-58.42		
	1690.69	V	-47.80		_
	1945.97	V	-45.50	-13.00	Pass
	3382.26	V	-56.92		
	5076.48	V	-52.22		
4233	57.30	Horizontal	-62.55		
	319.84	Н	-56.22		
	1690.69	Н	-46.35		
	1950.25	Н	-46.77	-13.00	Pass
	4593.08	Н	-55.71		
	7685.93	Н	-47.66		

Remark

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

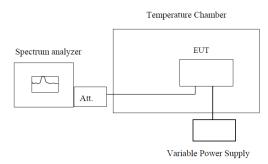
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5.7. Frequency stability V.S. Temperature measurement

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°Coperating 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/PCS1900/WCDMA B2/B5 mid channel

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Reference Frequency: GSM850 Middle channel=190 channel=836.6MHz								
Power supplied	Temperature (°C)	Frequen	cy error	Limit (ppm)	Result			
(Vdc)	remperature (C)	Hz	ppm	Еппі (рріп)	Nesuit			
	-30	16	0.019					
	-20	19	0.023					
	-10	14	0.017					
	0	15	0.018					
3.70	10	20	0.024	2.50	Pass			
	20	21	0.025					
	30	13	0.016					
	40	20	0.024					
	50	22	0.026					
Refe	erence Frequency: PO	CS1900 Middle ch	annel=661 chann	el=1880MHz				
Power supplied	Temperature (°C)	Frequency error		Limit (ppm)	Pocult			
(Vdc)	Temperature (C)	Hz	ppm	Limit (ppin)	Result			
	-30	16	0.009					
	-20	15	0.008					
	-10	14	0.007					
	0	12	0.006					
3.70	10	8	0.004	2.50	Pass			
	20	19	0.010					
	30	10	0.005					
	40	10	0.005					
	50	20	0.011					

Reference Frequency: WCDMA Band II Middle channel=9400 channel=1880MHz							
Power supplied	Temperature (°C)	Frequer	cy error	Limit (ppm)	Result		
(Vdc)	remperature (C)	Hz	ppm	Limit (ppm)	Kesuit		
	-30	13	0.007				
	-20	17	0.009				
	-10	21	0.011				
	0	15	0.008				
3.70	10	17	0.009	2.50	Pass		
	20	14	0.007				
	30	23	0.012				
	40	20	0.011				
	50	18	0.010				
Reference	ce Frequency: WCDM	A Band V Middle	channel=4182 ch	nannel=836.6MH	Z		
Power supplied	Tomporature (°C)	Frequer	Frequency error		Result		
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result		
	-30	10	0.012				
	-20	6	0.007				
	-10	13	0.016				
	0	11	0.013				
3.70	10	8	0.010	2.50	Pass		
	20	15	0.018				
	30	9	0.011				
	40	6	0.007				
	50	9	0.011]			

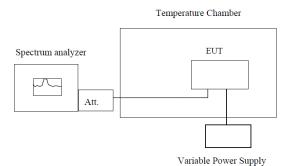
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5.8. Frequency stability V.S. Voltage measurement

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 topower the EUT and set the voltage to rated voltage.
- 2. Set the spectrum analyzer RBW lowenough to obtain the desired frequency resolution and recorded the frequency.
- 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, recordthe maximum frequency change.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

 $oxed{oxed}$ Passed $oxed{oxed}$ Not Applicable

Note:Worst case at GSM850/PCS1900/WCDMA B2/ B5 mid channel

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Reference Frequency: GSM850 (GSM link) Middle channel=190 channel=836.6MHz							
Temperature (°C)	Power supplied	Frequen	cy error	Limit (ppm)	Result		
remperature (C)	(Vdc)	Hz	ppm	Limit (ppm)	Result		
	4.20	21	0.025				
25	3.70	13	0.016	2.50	Pass		
	3.60	20	0.024				
Reference	Frequency: PCS190	00 (GSM link) Mide	dle channel=661	channel=1880Ml	-lz		
Temperature (°C)	Power supplied	Frequen	cy error	Limit (ppm)	Result		
remperature (C)	(Vdc)	Hz	ppm	Limit (ppini)	Result		
	4.20	19	0.010				
25	3.70	10	0.005	2.50	Pass		
	3.60	10	0.005				
Reference	ce Frequency: WCDN	MA Band II Middle	channel=9400 ch	nannel=1880MHz	Z		
Temperature (°C)	Power supplied	Frequen	cy error	Limit ((ppm)		
Temperature (C)	(Vdc)	Hz	ppm	Res	sult		
	4.20	14	0.007]			
25	3.70	23	0.012	2.50	Pass		
	3.60	20	0.011				
Reference	e Frequency: WCDM	1A Band V Middle	channel=4183 ch	nannel=836.6MH	z		
Temperature (°C)	Power supplied	Frequen	cy error	Limit (ppm)	Result		
Tomperature (C)	(Vdc)	Hz	ppm	Еппі (рріп)	Nesult		
	4.20	15	0.018]			
25	3.70	9	0.011	2.50	Pass		
	3.60	6	0.007				

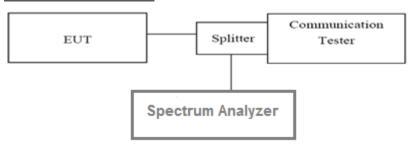
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5.9. Peak-Average Ratio

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. Forcontinuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burstransmissions, 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

Band	Channel	Frequency(MHz)	PAR	Limit(dB)	Result
	512	1850.2	2.67	13.00	Pass
PCS1900	661	1880.0	2.66	13.00	Pass
	810	1909.8	2.65	13.00	Pass

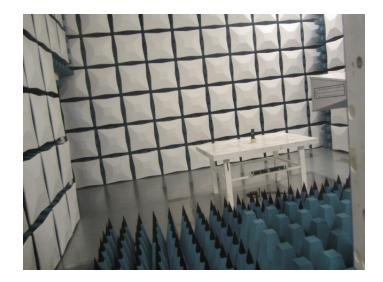
Band	Channel	Frequency(MHz)	PAR	Limit(dB)	Result
WCDMA BAND	9262	1852.4	3.27	13.00	Pass
	9400	1880.0	3.27	13.00	Pass
	9538	1907.6	3.23	13.00	Pass

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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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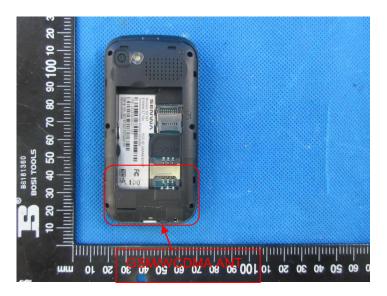




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Internal photos of the EUT

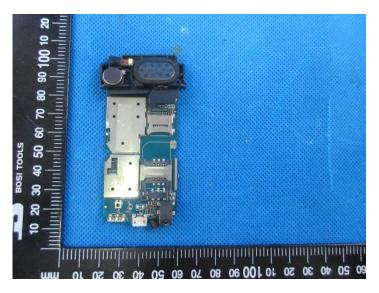


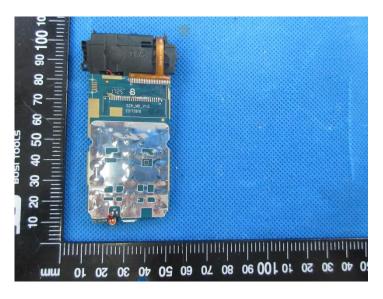




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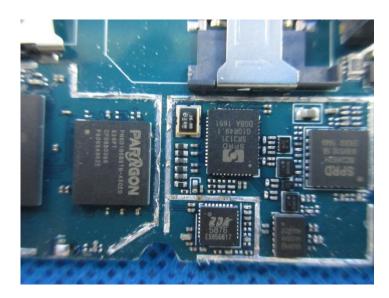
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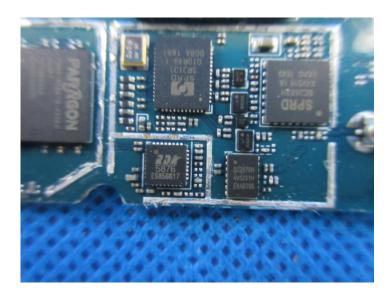




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.....End of Report.....