FCC PART 22/24 TEST REPORT

FCC Part 22 /Part 24

Report Reference No.: LCS170329088AE

FCC ID.: QRP-AZUMISPEEDP55

Date of Issue.: May 26, 2017

Testing Laboratory Name.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address: 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an

District, Shenzhen, Guangdong, China

Applicant's name: AZUMI S.A

Address: Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso

16 of. 16-01, Marbella, Ciudad de Panama

Test specification....:

Standard...... FCC Part 22: Public Mobile Services

FCC Part 24: Personal Communication Services

Test Report Form No: LCSEMC-1.0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

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Test item description....: Mobile phone

Trade Mark: AZUMI

Model/Type reference: Speed pro 55

Listed Models: Speed pro 55

DC 3.7V, 2450mAh

Ratings : Charging parameter: AC Input: 100~240V, 50/60Hz, 0.2A;

Output: DC 5V, 1.0A

Modulation: QPSK

Hardware version....: /

Software version: : /

Frequency: UMTS Band II /UMTS Band V

Result: PASS

Compiled by:

Supervised by:

Approved by:

Kyle Yin/ File administrators

Glin Lu/ Technique principal

Gavin Liang/ Manager

TEST REPORT

Test Report No. :	LCS170329088AE	May 26, 2017	
	LC3170329000AL	Date of issue	

Equipment under Test : Mobile phone

Model /Type : Speed pro 55

Listed Models : Speed pro 55

Applicant : AZUMI S.A

Address : Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso

16 of. 16-01, Marbella, Ciudad de Panama

Manufacturer : AZUMI HK LTD

Address : FLAT/RM 18 BLK 1 14/F GOLDEN INDUSTRIAL BUILDING 16-26

KWAI TAK STREET KWAI CHUNG,HK

Factory : LWIN HK CO.,LIMITED

Address : Room 9C,A Zone,Shenye Tairan Hongsong building,Tairan Six

Road North, CheGong Miao, FuTian District, Shenzhen, Guangdong

Province, P.R. China

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: QRP-AZUMISPEEDP55 Report No.: LCS170329088AE

Revison History

Revision	Issue Date	Revisions	Revised By
00	2017-05-26	Initial Issue	Gavin Liang

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1 TEST STANDARDS

The tests were performed according to following standards:

FCC Part 22 (10-1-16 Edition): Private Land Mobile Radio Services.

FCC Part 24(10-1-16 Edition): Public Mobile Services.

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

47 CFR FCC Part 15 Subpart B: Unintentional Radiators.

FCC Part 2: Frequency Allocations And Radio Treaty Matters: General Rules And Regulations.

ANSI C63.4:2014: Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and

Electronic Equipment in the Range of 9 kHz to 40 GHz.

FCCKDB971168D01 Power Meas License Digital Systems

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	March 29, 2017
Testing commenced on	:	May 26, 2017
Testing concluded on	:	May 26, 2017

2.2 Product Description

The **AZUMI S.A**'s Model: Speed pro 55 or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

Name of EUT	Mobile phone
Model Number	Speed pro 55
Modulation Type	GMSK for GSM/GPRS, 8-PSK for EDGE,QPSK for UMTS, QPSK, 16QAM for LTE
Antenna Gain	0.5dBi (max.) For GSM 850; 0.5dBi (max.) For GSM 900; 0.5dBi (max.) For DCS 1800; 0.5dBi (max.) For PCS 1900; 0.5dBi (max.) For WCDMA Band II 0.5dBi (max.) For WCDMA Band V 0.5dBi (max.) For LTE FDD Band 2; 0.5dBi (max.) For LTE FDD Band 4; 0.5dBi (max.) For LTE FDD Band 7; 0.5dBi (max.) For BT and WLAN
Hardware version	1
Software version	
GSM/EDGE/GPRS Operation Frequency Band	GSM850/PCS1900/GPRS850/GPRS1900/EDGE850/EDGE1900
UMTS Operation Frequency Band	UMTS FDD Band II/V
LTE Operation Frequency Band	LTE FDD band 2, FDD band 4, FDD band 7
GSM/EDGE/GPRS	Supported GSM/GPRS/EDGE
GSM Release Version	R99
GSM/EDGE/GPRS Power Class	GSM850:Power Class 4/ PCS1900:Power Class 1
GPRS/EDGE Multislot Class	GPRS/EDGE: Multi-slot Class 12
GPRS operation mode	Class B
WCDMA Release Version	R99
HSDPA Release Version	Release 10
HSUPA Release Version	Release 6
DC-HSUPA Release Version	Not Supported
LTE Release Version	R8
LTE/UMTS Power Class	Level 3
WLAN FCC Modulation Type	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
WLAN FCC Operation frequency	IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz IEEE 802.11n HT40:2422-2452MHz
Antenna Type	Integral Antenna
BT Modulation Type	GFSK,8DPSK,π/4DQPSK(BT V4.0)
Extreme temp. Tolerance	-30°C to +50°C
GPS function	Support and only RX
NFC Function	Not Support
Extreme vol. Limits	3.40VDC to 4.2VDC (nominal: 3.70VDC)

2.3 Equipment under Test

Power supply system utilised

Power supply voltage	:	0	120V / 60 Hz	0	115V / 60Hz
		0	12 V DC	0	24 V DC
		•	Other (specified in blank below)		

DC 3.70V

Test frequency list

Test Mode	TX/RX	RF Channel			
rest wode	INKA	Low(L)	Middle (M)	High (H)	
	TX	Channel 4132	Channel 4183	Channel 4233	
WCDMA Band V	17	826.4 MHz	836.6 MHz	846.6 MHz	
VVCDIVIA Ballu V	RX	Channel 4357	Channel 4407	Channel 4458	
		871.4 MHz	881.4 MHz	891.6 MHz	
Test Mode	TX/RX	RF Channel			
rest wode		Low(L)	Middle (M)	High (H)	
	TX	Channel 9262	Channel 9400	Channel 9538	
WCDMA Band II		1852.4 MHz	1880.0 MHz	1907.6 MHz	
WCDIVIA Band II	RX	Channel 9662	Channel 9800	Channel 9938	
		1932.4 MHz	1960.0 MHz	1987.6 MHz	

2.4 Short description of the Equipment under Test (EUT)

2.4.1 General Description

Speed pro 55 is subscriber equipment in the WCDMA/GSM/LTE system. The HSPA/UMTS frequency band is Band II/V, LTE frequency band is band 2, band 4, The GSM/GPRS/EDGE frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900, but only Band II and Band V and GSM850 and PCS1900 bands test data included in this report. The Mobile phone implements such functions as RF signal receiving/transmitting, HSPA/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service and etc. Externally it provides micro SD card interface and SIM card interface.

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

2.5 Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE2	Charger

AE2

Model: TPA-46050150UU

INPUT: Charging parameter: AC Input: 100~240V, 50/60Hz, 0.2A;

Output: DC 5V, 1.0A

*AE ID: is used to identify the test sample in the lab internally.

2.6 Normal Accessory setting

Fully charged battery was used during the test.

2.7 EUT configuration

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

- supplied by the manufacturer
- O supplied by the lab

0	Power Cable	Length (m):	/
		Shield :	/
		Detachable :	/
0	Multimeter	Manufacturer:	/
		Model No.:	1

2.8 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: QRP-AZUMISPEEDP55** filing to comply with FCC Part 22 and Part 24 Rules.

2.9 Modifications

No modifications were implemented to meet testing criteria.

2.10 General Test Conditions/Configurations

2.10.1 Test Modes

NOTE: The test mode(s) are selected according to relevant radio technology specifications.

Test Mode	Test Modes Description	
UMTS/TM1	WCDMA system, QPSK modulation	
UMTS/TM2	HSDPA system, QPSK modulation	
UMTS/TM3	HSUPA system, QPSK modulation	

Note:

- 1. This EUT owns two SIM cards, SIM 1 support GSM/UMTS/LTE, SIM 2 only support GSM;
- 2. As WCDMA, HSDPA and HSUPA with the same emission designator, test result recorded in this report at the worst case UMTS/TM1 only after exploratory scan.

2.10.2 Test Environment

Environment Parameter	Selected Values During Tests			
Relative Humidity	Ambient			
Temperature	TN Ambient			
Voltage	VL	3.40V		
	VN	3.70V		
	VH	4.20V		

NOTE: VL=lower extreme test voltage VN=nominal voltage VH=upper extreme test voltage TN=normal temperature

TEST ENVIRONMENT

Address of the test laboratory

Shenzhen LCS Compliance Testing Laboratory Ltd

1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong,

The sites are constructed in conformance with the requirements of ANSI C63.4 (2014) and CISPR Publication 22.

3.2 Test Facility

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

CNAS Registration Number. is L4595.

FCC Registration Number. is 899208.

Industry Canada Registration Number. is 9642A-1.

VCCI Registration Number. is C-4260 and R-3804.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

3.3 **Environmental conditions**

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

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

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

3.4 Test Description

3.4.1 Cellular Band (824-849MHz paired with 869-894MHz)

Test Item	FCC Rule No.	Requirements	Verdict
Effective(Isotropic) Radiated Output Power	§2.1046, §22.913	FCC: ERP ≤ 7W.	Pass
Modulation Characteristics	§2.1047	Digital modulation	N/A
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §22.917	≤-13dBm/1%*EBW, in 1MHz bands immediately outside and adjacent to The frequency block.	Pass
Spurious Emission at Antenna Terminals	§2.1051, §22.917	≤ -13dBm/100kHz, from 9kHz to 10th harmonics but outside authorized operating frequency ranges.	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917	≤ -13dBm/100kHz.	Pass
Frequency Stability	§2.1055, §22.355	≤ ±2.5ppm.	Pass
Peak-Average Ratio	N/A		Pass
Receiver Spurious Emissions	N/A		Pass
NOTE 1: For the verdict, the "N	I/A" denotes "not applicable", the "N	I/T" de notes "not tested".	

3.4.2 PCS Band (1850-1915MHz paired with 1930-1995MHz)

FCC Rule No.	Requirements	Verdict
§2.1046, §24.232	EIRP ≤ 2W	Pass
§2.1046, §24.232	≤13dB	Pass
§2.1047	Digital modulation	N/A
§2.1049	OBW: No limit. EBW: No limit.	Pass
§2.1051, §24.238	≤ -13dBm/1%*EBW, In 1MHz bands immediately outside and adjacent to The frequency block.	Pass
§2.1051, §24.238	≤-13dBm/1MHz, from 9kHz to10th harmonics but outside authorized Operating frequency ranges.	Pass
§2.1053, §24.238	≤ -13dBm/1MHz.	Pass
§2.1055, §24.235	≤ ±2.5ppm.	Pass
N/A		Pass
	\$24.232 \$2.1046, \$24.232 \$2.1047 \$2.1049 \$2.1051, \$24.238 \$2.1051, \$24.238 \$2.1053, \$24.238 \$2.1055, \$24.235	\$2.1046, \$24.232 \$2.1046, \$24.232 \$2.1047 Digital modulation OBW: No limit. EBW: No limit. EBW: No limit. ≤ -13dBm/1%*EBW, In 1MHz bands immediately outside and adjacent to The frequency block. ≤-13dBm/1MHz, from 9kHz to 10th harmonics but outside authorized Operating frequency ranges. \$2.1051, \$24.238 \$2.1051, \$24.238 \$24.238 \$2.1053, \$24.238 \$2.1055, \$24.235 \$25ppm.

Remark: 1.The measurement uncertainty is not included in the test result.

3.5 Equipments Used during the Test

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal Date	Due Date
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Jun 18, 2016	Jun 17, 2017
Signal analyzer	Agilent	E4448A(External mixers to 40GHz)	US44300469	9kHz~40GHz	Jul 16, 2016	Jul 15, 2017
LISN	MESS Tec	NNB-2/16Z	99079	9KHz-30MHz	Jun 18, 2016	Jun 17, 2017
LISN	EMCO	3819/2NM	9703-1839	9KHz-30MHz	Jun 18, 2016	Jun 17, 2017
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9KHz-30MHz	Jun 18, 2016	Jun 17, 2017
ISN	SCHAFFNER	ISN ST08	21653	9KHz-30MHz	Jun 18, 2016	Jun 17, 2017
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30M-18GHz	Jun 18, 2016	Jun 17, 2017
Amplifier	SCHAFFNER	COA9231A	18667	9kHz-2GHzz	Apr 18, 2016	Apr 17, 2017
Amplifier	Agilent	8449B	3008A02120	1GHz-26.5GHz	Apr 18, 2016	Apr 17, 2017
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5GHz-40GHz	Apr 18, 2016	Apr 17, 2017
Loop Antenna	R&S	HFH2-Z2	860004/001	9k-30MHz	Apr 18, 2016	Apr 17, 2017
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	30MHz-1GHz	Apr 18, 2016	Apr 17, 2017
Horn Antenna	EMCO	3115	6741	1GHz-18GHz	Apr 18, 2016	Apr 17, 2017
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz-40GHz	Apr 18, 2016	Apr 17, 2017
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz-1GHz	Jun 18, 2016	Jun 17, 2017
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1GHz-40GHz	Jun 18, 2016	Jun 17, 2017
Power Meter	R&S	NRVS	100444	DC-40GHz	Jun 18, 2016	Jun 17, 2017
Power Sensor	R&S	NRV-Z51	100458	DC-30GHz	Jun 18, 2016	Jun 17, 2017
Power Sensor	R&S	NRV-Z32	10057	30MHz-6GHz	Jun 18, 2016	Jun 17, 2017
AC Power Source	HPC	HPA-500E	HPA-9100024	AC 0~300V	Jun 18, 2016	Jun 17, 2017
DC power Source	GW	GPC-6030D	C671845	DC 1V-60V	Jun 18, 2016	Jun 17, 2017
Temp. and Humidigy Chamber	Giant Force	GTH-225-20-S	MAB0103-00	N/A	Jun 18, 2016	Jun 17, 2017
RF CABLE-1m	JYE Bao	RG142	CB034-1m	20MHz-7GHz	Jun 18, 2016	Jun 17, 2017
RF CABLE-2m	JYE Bao	RG142	CB035-2m	20MHz-1GHz	Jun 18, 2016	Jun 17, 2017
Signal Generator	R&S	SMR40	10016	10MHz~40GHz	Jul 16, 2016	Jul 15, 2017
Universal Radio Communication Tester	R&S	CMU200	112012	N/A	Oct 27, 2016	Oct 26, 2017
Wideband Radia Communication Tester	R&S	CMW500	1201.0002K50	N/A	Nov 19, 2016	Nov 18, 2017
PSG Analog Signal Generator	Agilent	N8257D	MY46520521	250KHz~20GHz	Nov 19, 2016	Nov 18, 2017
MXA Signal Analyzer	Agilent	N9020A	MY50510140	10Hz~26.5GHz	Oct 27, 2016	Oct 26, 2017
RF Control Unit	Tonscend	JS0806-1	/	1	Nov 19,2016	Nov 18, 2017
LTE Test Software	Tonscend	JS1120-1	1	Version: 2.5.7.0	N/A	N/A
Test Software	Ascentest	AT890-SW	20141230	Version: 20160630	N/A	N/A
Splitter/Combiner(Qty: 2)	Mini-Circuits	ZAPD-50W 4.2- 6.0 GHz	NN256400424	1	Oct 27, 2016	Oct 26, 2017
Splitter/Combine(Qty: 2)	MCLI	PS3-7	4463/4464	/	Oct 27, 2016	Oct 26, 2017
ATT (Qty: 1)	Mini-Circuits	VAT-30+	30912	1	Oct 27, 2016	Oct 26, 2017
EMC Test Software	Audix	E3	/	/	/	/

3.6 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 ETSI TR 100 028 " Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics" and is documented in the Shenzhen LCS Compliance Testing Laboratory 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 LCS Compliance Testing Laboratory Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	3.10 dB	(1)
Radiated Emission	1~18GHz	3.70 dB	(1)
Radiated Emission	18-40GHz	3.90 dB	(1)
Conducted Disturbance	0.15~30MHz	1.63 dB	(1)
Conducted Power	9KHz~18GHz	0.61 dB	(1)
Spurious RF Conducted Emission	9KHz~40GHz	1.22 dB	(1)
Band Edge Compliance of RF Emission	9KHz~40GHz	1.22 dB	(1)
Occuiped Bandwidth	9KHz~40GHz	-	(1)

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

4 TEST CONDITIONS AND RESULTS

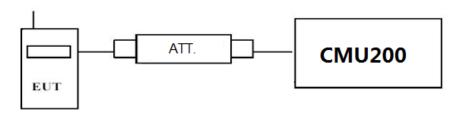
4.1 Output Power

TEST APPLICABLE

During the process of testing, the EUT was controlled via R&S Digital Radio Communication tester (CMU200) to ensure max power transmission and proper modulation. This result contains output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

4.1.1. Conducted Output Power

TEST CONFIGURATION



TEST PROCEDURE

Conducted Power Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a CMU200 by an Att.
- c) EUT Communicate with CMU200 then selects a channel for testing.
- d) Add a correction factor to the display CMU200, and then test.

TEST RESULTS

	band		Band II resu		WCDMA Band V result (dBm)		
Item	bana	Channel	/Frequenc	y(MHz)	Channe	el/Freque	ncy(MHz)
item	sub-test	9262/	9400/	9538/	4132/	4183/	4233/
	วนม-เธอเ	1852.4	1880	1907.6	826.4	836.6	846.6
RMC	12.2kbps RMC	23.55	23.77	23.26	23.42	23.40	23.64
	Sub –Test 1	23.41	23.46	22.17	23.12	23.53	23.28
HSDPA	Sub –Test 2	22.47	22.20	21.87	22.48	22.29	22.30
	Sub –Test 3	21.58	21.76	21.57	21.91	21.83	21.85
	Sub –Test 4	21.21	21.36	22.38	21.15	21.10	20.96
	Sub –Test 1	22.45	21.05	21.94	22.55	22.76	22.75
	Sub –Test 2	21.52	21.26	21.43	21.43	21.99	21.70
HSUPA	Sub –Test 3	21.77	21.74	20.86	22.52	22.42	22.06
	Sub –Test 4	20.71	20.63	21.25	20.52	20.39	20.77
	Sub –Test 5	21.35	20.71	23.65	20.12	20.26	20.36

4.1.1 Radiated Output Power

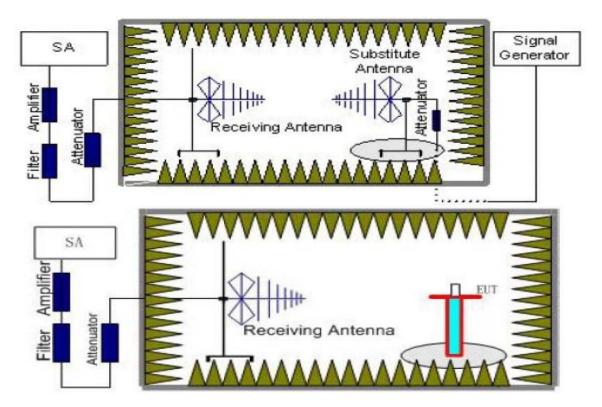
TEST DESCRIPTION

This is the test for the maximum radiated power from the EUT.

Rule Part 24.232(c) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(e) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

Rule Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

TEST CONFIGURATION



TEST PROCEDURE

- 1. EUT was placed on a 1.50 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 1.50m. 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=10MHz, VBW=10MHz, And the maximum value of the receiver should be recorded as (P_r).
- 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 (P_{Mea}) 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 (P_r). The power of signal source (P_{Mea}) 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 (P_{cl}) ,the Substitution Antenna Gain (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.
 - The measurement results are obtained as described below:
 - Power(EIRP)= P_{Mea} + P_{Ag} P_{cl} + G_a
- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

TEST LIMIT

According to 22.913(a), 24.232(c), the ERP(EIRP) should be not exceeding following table limits:

	Burst Average EIRP
UMTS Band II	FCC: ≤38.45dBm (7W)

	Burst Average ERP
UMTS Band V	38.45dBm (7W)

TEST RESULTS

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. $EIRP=P_{Mea}(dBm)-P_{cl}(dB)+P_{Aq}(dB)+G_a(dBi)$
- 3. ERP = EIRP 2.15dBi as EIRP by subtracting the gain of the dipole.
- 4. Margin = Emission Level Limit
- 5. We test the H direction and V direction recorded worst case.

UMTS/TM1/UMTS Band II

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain (dB)	P _{Aq} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.40	-12.76	4.03	8.38	35.51	27.10	33.01	-5.90	V
1880.00	-13.33	4.08	8.33	35.56	26.48	33.01	-6.52	V
1907.60	-14.40	4.14	8.26	35.63	25.35	33.01	-7.65	V

UMTS/TM1/UMTS Band V

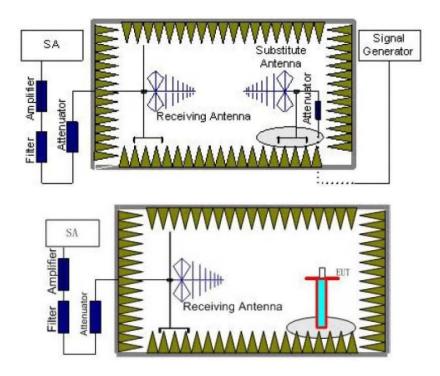
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain (dB)	Correction (dB)	P _{Aq} (dB)	Burst Average ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.40	-10.10	3.45	8.45	2.15	33.79	26.54	38.45	-11.91	V
836.60	-11.64	3.49	8.45	2.15	33.85	25.02	38.45	-13.43	V
844.60	-11.52	3.55	8.36	2.15	33.88	25.02	38.45	-13.43	V

4.2 Radiated Spurious Emssion

TEST APPLICABLE

According to the TIA/EIA 603D:2010 and FCC Part 2.1033 test method, The Receiver or Spectrum was scanned from lowest frequency frequency generated within the equipment to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set as outlined in Part 24.238, Part 22.917, RSS-132 §5.5 and RSS-133 §6.5. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II and WCDMA Band V.

TEST CONFIGURATION



TEST PROCEDURE

- 1. EUT was placed on a 1.50 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 1.50 m. 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, And the maximum value of the receiver should be recorded as (P_r).
- 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 (P_{Mea}) 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 (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

- 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 (P_{cl}) ,the Substitution Antenna Gain
 (G_a) and the Amplifier Gain (P_{Ag}) should be recorded after test.

 The measurement results are obtained as described below:
 - The measurement results are obtained as described below: Power(EIRP)= P_{Mea} + P_{Ag} P_{cl} + G_a
- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.
- 8. In order to make sure test results more clearly, we set frequency range and sweep time for difference frequency range as follows table:

Working Frequency	Subrange (GHz)	RBW	VBW	Sweep time (s)
	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
UMTS/TM1/	0.03~1	100KHz	300KHz	10
	1~2	1 MHz	3 MHz	2
WCDMA Band V	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~10	1 MHz	3 MHz	3
	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
	0.03~1	100KHz	300KHz	10
	1~2	1 MHz	3 MHz	2
UMTS/TM1/	2~5	1 MHz	3 MHz	3
WCDMA Band II	5~8	1 MHz	3 MHz	3
	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
	18~20	1 MHz	3 MHz	2

TEST LIMITS

According to 24.238, 22.917 and 27.54 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.

Frequency	Channel	Frequency Range	Verdict
UMTS/TM1/ WCDMA Band V	Low	9KHz-10GHz	PASS
	Middle	9KHz -10GHz	PASS
	High	9KHz -10GHz	PASS
UMTS/TM1/ WCDMA Band II	Low	9KHz -20GHz	PASS
	Middle	9KHz -20GHz	PASS
Dailu II	High	9KHz -20GHz	PASS

TEST RESULTS

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. $EIRP=P_{Mea}(dBm)-P_{cl}(dB)+P_{Aq}(dB)+G_a(dBi)$
- 3. ERP = EIRP 2.15dBi as EIRP by subtracting the gain of the dipole.
- 4. Margin = EIRP Limit

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UMTS/TM1/ WCDMA Band II _ Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3704.8	-44.02	5.26	3.00	9.88	-39.40	-13.00	-26.40	Н
5557.2	-48.67	6.11	3.00	11.36	-43.42	-13.00	-30.42	Н
3704.8	-46.00	5.26	3.00	9.88	-41.38	-13.00	-28.38	V
5557.2	-50.49	6.11	3.00	11.36	-45.24	-13.00	-32.24	V

UMTS/TM1/ WCDMA Band II _ Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.0	-45.00	5.32	3.00	10.03	-40.29	-13.00	-27.29	Н
5640.0	-49.13	6.19	3.00	11.41	-43.91	-13.00	-30.91	Н
3760.0	-46.43	5.32	3.00	10.03	-41.72	-13.00	-28.72	V
5640.0	-50.91	6.19	3.00	11.41	-45.69	-13.00	-32.69	V

UMTS/TM1/ WCDMA Band II _ High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3815.2	-45.51	5.36	3.00	9.62	-41.25	-13.00	-28.25	Н
5722.8	-48.40	6.24	3.00	11.46	-43.18	-13.00	-30.18	Н
3815.2	-46.38	5.36	3.00	9.62	-42.12	-13.00	-29.12	V
5722.8	-50.63	6.24	3.00	11.46	-45.41	-13.00	-32.41	V

UMTS/TM1/ WCDMA Band V _ Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1652.8	-46.73	3.86	3.00	8.56	-42.03	-13.00	-29.03	Н
2479.2	-47.24	4.29	3.00	6.98	-44.55	-13.00	-31.55	Н
1652.8	-45.88	3.86	3.00	8.56	-41.18	-13.00	-28.18	V
2479.2	-48.35	4.29	3.00	6.98	-45.66	-13.00	-32.66	V

UMTS/TM1/ WCDMA Band V _ Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1672.8	-47.10	3.90	3.00	8.58	-42.42	-13.00	-29.42	Н
2509.2	-46.76	4.32	3.00	6.80	-44.28	-13.00	-31.28	Н
1672.8	-46.53	3.90	3.00	8.58	-41.85	-13.00	-28.85	V
2509.2	-49.13	4.32	3.00	6.80	-46.65	-13.00	-33.65	V

UMTS/TM1/ WCDMA Band V _ High Channel

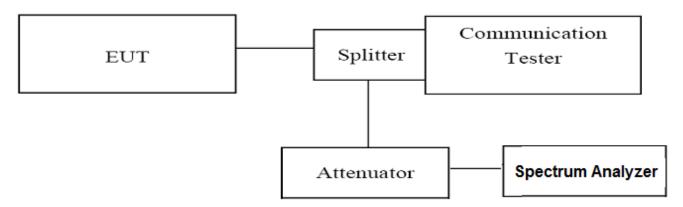
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1693.2	-44.80	3.91	3.00	9.06	-43.67	-13.00	-26.65	Н
2539.8	-46.00	4.32	3.00	6.65	-41.31	-13.00	-30.67	Н
1693.2	-46.46	3.91	3.00	9.06	-46.10	-13.00	-28.31	V
2539.8	-48.43	4.32	3.00	6.65	-43.67	-13.00	-33.10	V

4.3 Occupied Bandwidth and Emission Bandwith

TEST APPLICABLE

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. The table below lists the measured 99% Bandwidth and -26dBc Bandwidth.

TEST CONFIGURATION



TEST PROCEDURE

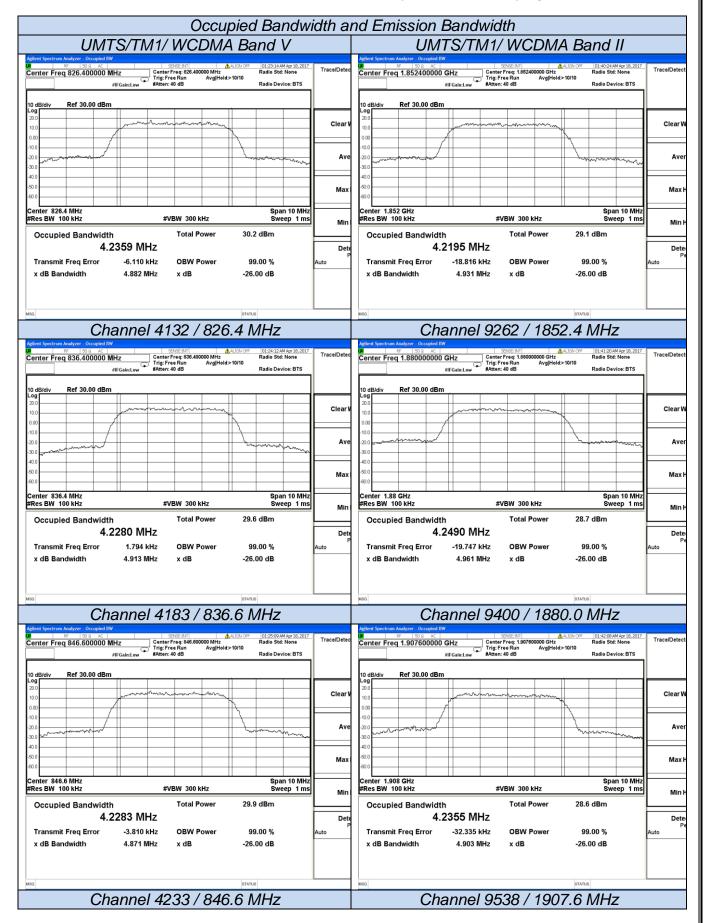
- 1. The EUT was set up for the max output power with pseudo random data modulation;
- 2. The Occupied bandwidth and Emission Bandwidth were measured with Aglient Spectrum Analyzer N9020A (peak);
- 3. Set RBW=100KHz, VBW=300KHz, Span=10MHz, SWT=Auto;
- 4. Set SPA Max hold and View, Set 99% Occupied Bandwidth/ Set -26dBc Occupied Bandwidth
- 5. These measurements were done at 3 frequencies for WCDMA band II/V. (low, middle and high of operational frequency range).

TEST RESULTS

Test Mode	Channel	Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	Emission Bandwidth (-26 dBc BW) (MHz)	Verdict
UMTS/TM1/	4132	826.40	4.2359	4.882	PASS
WCDMA Band	4183	836.60	4.2280	4.913	PASS
V	4233	846.60	4.2283	4.871	PASS
UMTS/TM1/	9262	1852.40	4.2195	4.931	PASS
WCDMA Band	9400	1880.00	4.2490	4.961	PASS
II	9538	1907.60	4.2355	4.903	PASS

Remark:

- 1. Test results including cable loss;
- 2. Please refer to following plots;

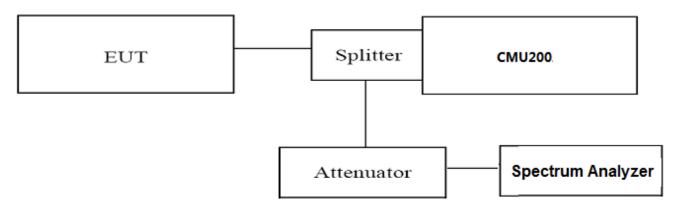


4.4 Band Edge Compliance

TEST APPLICABLE

During the process of testing, the EUT was controlled via Digital Radio Communication tester (CMU200) to ensure max power transmission and proper modulation.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was set up for the max output power with pseudo random data modulation;
- 2. The power was measured with Spectrum Analyzer N9020A;
- 3. Set RBW=100KHz, VBW=300KHz, Span=10MHz, SWT=Auto, Dector: RMS;

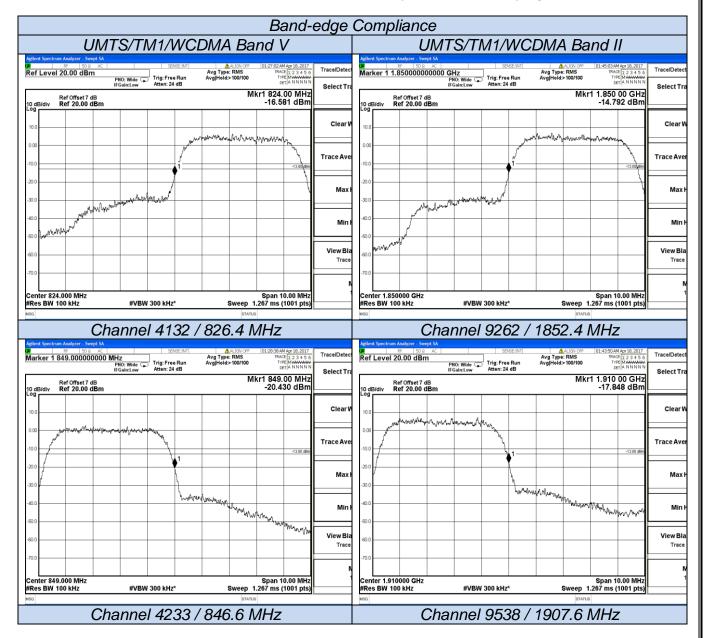
These measurements were done at 2 frequencies for WCDMA Band II/V. (low and high of operational frequency range).

TEST RESULTS

UMTS/TM1/WCDMA Band V									
Test Mode	Channel	Frequency (MHz)	Band Edg Compliance (dBm)	Limits (dBm)	Verdict				
UMTS/TM1/WCDMA	4132	826.40	<-13dBm	-13dBm	PASS				
Band V	4233 846.60 <-13dBm		-13dBm	F A00					
		UMTS/TM1/WCI							
Test Mode Channel		Frequency (MHz)	Band Edg Compliance (dBm)	Limits (dBm)	Verdict				
UMTS/TM1/WCDMA	9262	1852.40	<-13dBm	-13dBm	PASS				
Band II	9538	1907.60	<-13dBm	-13dBm	FASS				

Remark:

- 1. Test results including cable loss;
- 2. Please refer to following plots;



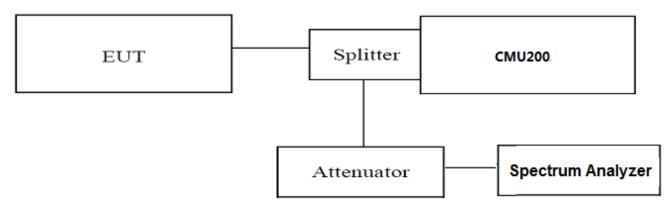
4.5 Spurious Emssion on Antenna Port

TEST APPLICABLE

The following steps outline the procedure used to measure the conducted emissions from the EUT.

- Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated
 from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier
 frequency. For the equipment of WCDMA band II, this equates to a frequency range of 9 KHz to 20GHz,
 data taken from 30 MHz to 20 GHz. For WCDMA Band V, this equates to a frequency range of 9 KHz to 9
 GHz,data taken from 30 MHz to 9 GHz.
- 2. The sweep time is set automatically by instrument itself. That should be the optimal sweep time for the span and the RBW. If the sweep time is too short, that is sweep is too fast, the sweep result is not accurate; if the sweep time is too long, that is sweep is too low, some frequency components may be lost. The instrument will give an optimal sweep time according the selected span and RBW.
- 3. The procedure to get the conducted spurious emission is as follows:
 The trace mode is set to MaxHold to get the highest signal at each frequency;
 Wait 25 seconds;
 Get the result.
- 4. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was set up for the max output power with pseudo random data modulation;
- 2. The power was measured with Spectrum Analyzer N9020A;
- 3. These measurements were done at 3 frequencies for WCDMA band II/V. (low, middle and high of operational frequency range).

TEST LIMIT

Part 24.238, 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.

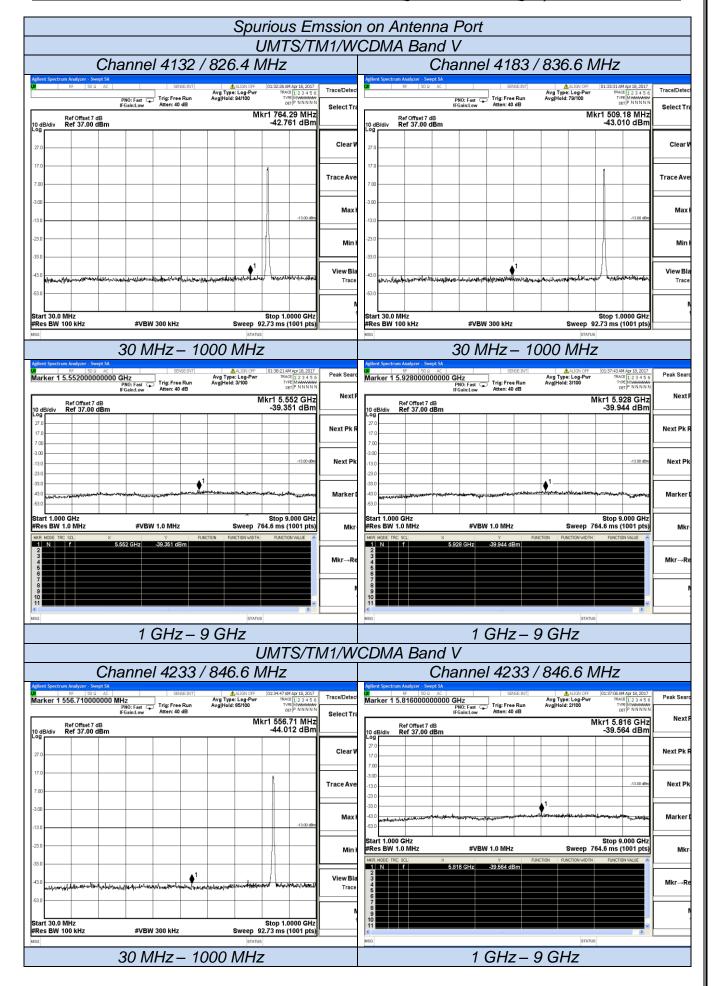
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: QRP-AZUMIAKARU55Q Report No.: LCS170329088AE

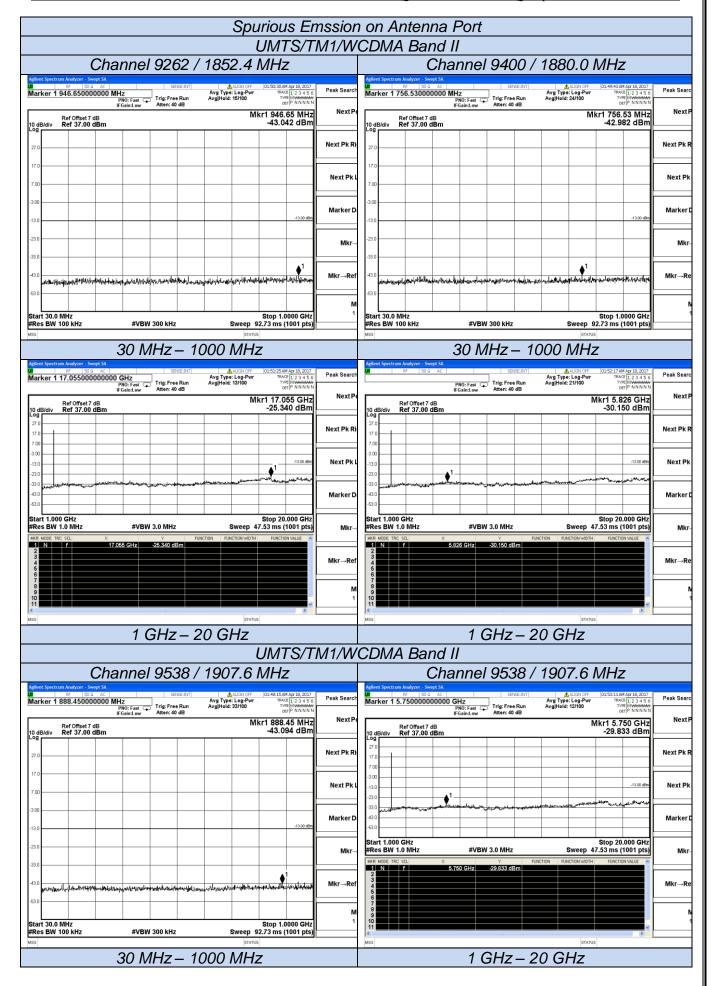
TEST RESULTS

Test Mode	Channel	Frequency (MHz)	Spurious RF Conducted Emission (dBm)	Limits (dBm)	Verdict
UMTS/TM1/WCDMA	4132	826.40	<-13dBm	-13dBm	
Band V	4183	836.60	<-13dBm	-13dBm	PASS
Dallu V	4233	846.60	<-13dBm	-13dBm	
UMTS/TM1/WCDMA	9262	1852.40	<-13dBm	-13dBm	
Band II	9400	1880.00	<-13dBm	-13dBm	PASS
Dailu II	9538	1907.60	<-13dBm	-13dBm	

Remark:

- Test results including cable loss;
 Please refer to following plots;
 Not reorded test plots from 9 KHz to 30 MHz as emission levels 20dB lower than emission limit;





4.6 Frequency Stability Test

TEST APPLICABLE

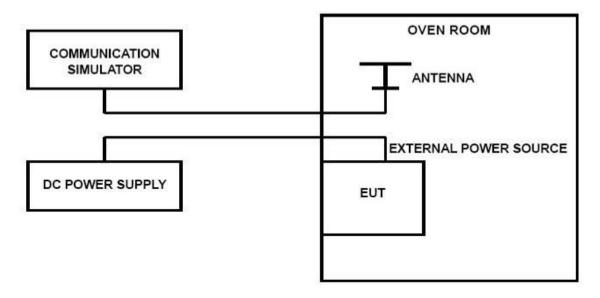
- 1. According to FCC Part 2 Section 2.1055 (a)(1), the frequency stability shall be measured with variation of ambient temperature from -30℃ to +50℃ centigrade.
- 2. According to FCC Part 2 Section 2.1055 (e)(2) and RSS-GEN, for battery powered equipment, the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point, which is specified by the manufacture.
- 3. Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried voltage equipment and the end voltage point was 3.40V.

TEST PROCEDURE

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMU200 DIGITAL RADIO COMMUNICATION TESTER.

- 1. Measure the carrier frequency at room temperature;
- 2. Subject the EUT to overnight soak at -30°C;
- 3. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on middle channel of WCDMA Band II/V, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming;
- 4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 0.5 hours at each temperature, unpowered, before making measurements;
- 5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 0.5 hours unpowered, to allow any self-heating to stabilize, before continuing;
- 6. Subject the EUT to overnight soak at +50°C;
- 7. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming;
- 8. Repeat the above measurements at 10°C increments from +50°C to -30°C. Allow at least 0.5 hours at each temperature, unpowered, before making measurements;
- 9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure;

TEST CONFIGURATION



TEST LIMITS

For Hand carried battery powered equipment

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.40VDC and 4.20VDC, with a nominal voltage of 3.70DC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

For equipment powered by primary supply voltage

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

TEST RESULTS

		UMTS/TM1/W	CDMA Band II		
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.40	25	-5.61	-0.003	2.50	PASS
3.70	25	-9.82	-0.005	2.50	PASS
4.20	25	-9.83	-0.005	2.50	PASS
3.70	-30	-5.58	-0.003	2.50	PASS
3.70	-20	-5.55	-0.003	2.50	PASS
3.70	-10	-4.46	-0.002	2.50	PASS
3.70	0	-2.62	-0.001	2.50	PASS
3.70	10	-0.10	0.000	2.50	PASS
3.70	20	2.27	0.001	2.50	PASS
3.70	30	1.78	0.001	2.50	PASS
3.70	40	-8.54	-0.005	2.50	PASS
3.70	50	0.68	0.000	2.50	PASS

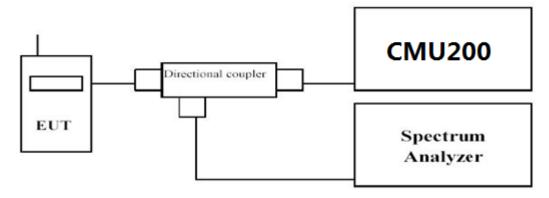
		UMTS/TM1/W	CDMA Band V		
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.40	25	-3.16	-0.002	2.50	PASS
3.70	25	-0.98	-0.001	2.50	PASS
4.20	25	-2.49	-0.001	2.50	PASS
3.70	-30	0.08	0.000	2.50	PASS
3.70	-20	-3.71	-0.002	2.50	PASS
3.70	-10	0.92	0.000	2.50	PASS
3.70	0	5.71	0.003	2.50	PASS
3.70	10	5.65	0.003	2.50	PASS
3.70	20	3.36	0.002	2.50	PASS
3.70	30	2.24	0.001	2.50	PASS
3.70	40	3.93	0.002	2.50	PASS
3.70	50	-0.61	0.000	2.50	PASS

4.7 Peak-to-Average Ratio (PAR)

LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



TEST PROCEDURE

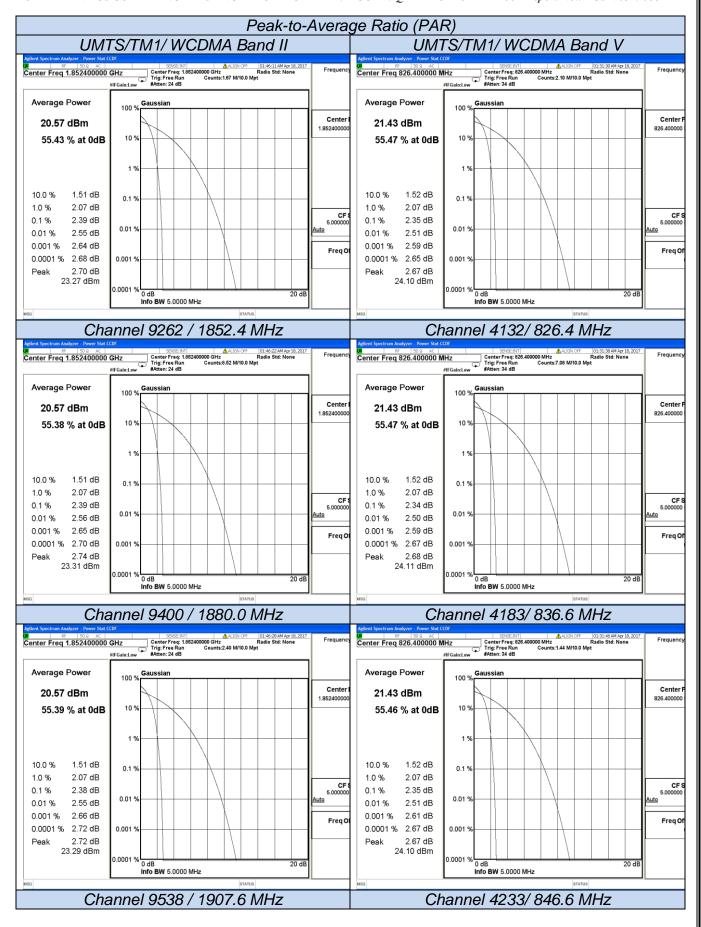
- Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 4. Set the measurement interval as follows:
 - 1). for continuous transmissions, set to 1 ms,
 - 2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- 5. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

Test Mode	Channel	Frequency (MHz)	PAPR Value (dB)	Limits (dB)	Verdict
UMTS/TM1/	9262	1852.40	2.39	13.0	PASS
WCDMA Band	9400	1880.00	2.39	13.0	PASS
II	9538	1907.60	2.38	13.0	PASS
UMTS/TM1/	4132	826.40	2.35	13.0	PASS
WCDMA Band	4183	836.60	2.34	13.0	PASS
V	4233	846.60	2.35	13.0	PASS

Remark:

- 1. Test results including cable loss;
- 2. Please refer to following plots;



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: QRP-AZUMISPEEDP55 Report No.: LCS170329088AE 5 TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

7 INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.End of Report.....