	FCC PART 22/24/27 TEST REPORT						
FCC Part 22 / Part 24							
Report Reference No							
FCC ID 2AM8GVOREZA							
Date of Issue February 25, 2021							
Testing Laboratory Name	e Shenzhen LCS Compliance Testing Laboratory Ltd.						
Address	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China						
Applicant's name							
Address No.4 plant of No.43 South International Trade Avenue, Hualong Tow Panyu Dstrict, Guangzhou, China, 511434							
Test specification							
Standard	FCC Part 22: Public Mobile Services FCC Part 24: PERSONAL COMMUNICATIONS SERVICES						
Test Report Form No	LCSEMC-1.0						
	Shenzhen LCS Compliance Testing Laboratory Ltd.						
Master TRF	Dated 2011-03						
placement and context. Test item description							
Trade Mark							
Test ModelVOR2-IEC2-X04 MODEL:SOY-1200300 INPUT: 100-240V~ 50/60Hz 1.2A max. OUTPUT: DC 12.0V 3.0A, 36.0W DC 7.6V by Pecharreable Li ion Battery, 13000mAb, 98.8W/b							
Ratings	INPUT: 100-240V~ 50/60Hz 1.2A max. OUTPUT: DC 12.0V 3.0A, 36.0W DC 7.6V by Rechargeable Li-ion Battery, 13000mAh, 98.8Wh						
	DC 7.6V by Rechargeable LI-Ion Ballery, 13000mAn, 98.8VVh						
Modulation	QPSK						
Modulation Hardware version	QPSK						
Modulation Hardware version Software version	QPSK ZA801 REV11 EC: E7.CD.06 BIOS: E.ZA102_1.V10.048						
Modulation Hardware version Software version Frequency	QPSK ZA801 REV11 EC: E7.CD.06 BIOS: E.ZA102_1.V10.048 Windows10 pro: 1803 UMTS Band II / UMTS Band V						
Modulation Hardware version Software version	QPSK ZA801 REV11 EC: E7.CD.06 BIOS: E.ZA102_1.V10.048 Windows10 pro: 1803 UMTS Band II / UMTS Band V						

Jin Wang/ File administrator

Linda He/ Technique principal

Gavin Liang/ Manager

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TEST REPORT

Test Report No. :	LCS200511090AEC011 February 25, 202 Date of issue	1			
Equipment under Test	VOREZA II				
Test Model	VOR2-IEC2-X04				
Applicant	GUANGZHOU LIE DUN ELECTRONICS TECHNOLOGY CO., LIMITED				
Address	No.4 plant of No.43 South International Trade Avenue, Hualong Town, Panyu Dstrict, Guangzhou, China, 511434				
Manufacturer	Guangzhou Lie Dun Electronics Technology CO.,Ltd				
Address	Building 4, 43 International Trade Avenue South, Hualong, Panyu, Guangzhou, China, 511434				
Factory	: Guangzhou Lie Dun Electronics Technology CO.,Ltd				
Address	Building 4, 43 International Trade Avenue South, Hualong, Panyu, Guangzhou, China, 511434				

Test Result:	PASS
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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.

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Revison History

Revision	Issue Date	Revisions	Revised By
000	July 27, 2020	Initial Issue	Gavin Liang
001	September 25, 2020	See Note 1	Gavin Liang
011	February 25, 2021	See Note 2	Gavin Liang

Note 1: This report replaces the report No. LCS200511090AEC, correct the applicant, manufacturer and factory, and the original report is invalid.

Note 2: This report replaces the report No. LCS200511090AEC001, correct the test data, and the original report is invalid.

<u>SHENZH</u>	HEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC I	D: 2AM8GVOREZA	Report No.: LCS200511090AEC011
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1 TEST STANDARDS

The tests were performed according to following standards:

FCC Part 22 (10-1-16 Edition): PUBLIC MOBILE SERVICES.

FCC Part 24(10-1-16 Edition): PERSONAL COMMUNICATIONS SERVICES.

<u>TIA-603-E March 2016</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.

FCC KDB971168 D01 Power Meas License Digital Systems v03r01

2 <u>SUMMARY</u>

2.1 General Remarks

Date of receipt of test sample	:	January 07, 2020
Date of Test	:	January 07, 2020 ~ January 30, 2020
Date of Report	:	February 25, 2021

2.2 Product Description

The **GUANGZHOU LIE DUN ELECTRONICS TECHNOLOGY CO., LIMITED**'s Model: VOREZA llor 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.

EUT	: VOREZA II
Test Model	: VOR2-IEC2-X04
Power Supply	MODEL:SOY-1200300 INPUT: 100-240V~ 50/60Hz 1.2A max. OUTPUT: DC 12.0V 3.0A, 36.0W DC 7.6V by Rechargeable Li-ion Battery, 13000mAh, 98.8Wh
Hardware Version	: ZA801 REV11
Software Version	EC: E7.CD.06 : BIOS: E.ZA102_1.V10.048 Windows10 pro: 1803
GSM	
Frequency Band	: GSM850, PCS1900
GSM/EDGE/GPRS	Supported GSM/GPRS/EDGE
GSM Release Version	: R99
GSM/PCS 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
Modulation Type	: GMSK for GSM/GPRS, 8-PSK for EDGE
Antenna Gain	: FPC Antenna,GSM850:1.2dBi;PCS1900:1.5dBi
WCDMA	:
Frequency Band	: UMTS FDD Band II /V
WCDMA Release Version	: R8
HSDPA Release Version	: R8
HSUPA Release Version	: R8
Modulation Type	: QPSK for UMTS
Antenna Gain	: FPC Antenna, Band V:1.2dBi;Band II:1.5dBi
LTE	:
LTE Frequency Band	: LTE Band 2, 4, 5, 7, 12, 13, 25, 26 : R9
LTE Release Version	

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LTE/UMTS Power Class	: Class 3
Modulation Type	: QPSK, 16QAM for LTE
Antenna Gain	: FPC Antenna, 1.5dBi for Band2,Band4,Band25; 1.2dBi for
	Band5,Band26;1.1dBi for Band12,Band13; 1.4dBi for Band7
Extreme temp.	$: -20^{\circ}C$ to $+50^{\circ}C$
Tolerance Extreme vol.	: Extreme vol 1:10.2VDC to 13.8VDC (nominal: 12VDC)
Limits	Extreme vol 2: 6.46VDC to 8.74VDC (nominal: 7.6VDC)

WCDMA Test frequency list

Test Mode	TX/RX	RF Channel				
Test Mode	ΙΛ/ΚΛ	Low(L)	Middle (M)	High (H)		
	ТХ	Channel 4132	Channel 4182	Channel 4233		
WCDMA Band V	IA	826.4 MHz	836.4 MHz	846.6 MHz		
VVCDIVIA Dallu V	RX	Channel 4357	Channel 4407	Channel 4458		
	۲A	871.4 MHz	881.4 MHz	891.6 MHz		
Test Mode	TX/RX	RF Channel				
Test Mode	ΙΛ/ΚΛ	Low(L)	Middle (M)	High (H)		
	ТХ	Channel 9262	Channel 9400	Channel 9538		
WCDMA Band II		1852.4 MHz	1880.0 MHz	1907.6 MHz		
	RX	Channel 9662	Channel 9800	Channel 9938		
	ΓA	1932.4 MHz	1960.0 MHz	1987.6 MHz		

2.3 Equipment under Test

Power supply system utilised

Power supply voltage	:	0	120V / 60 Hz	0	115V / 60Hz
			Other DC 7.6V		

2.4 Short description of the Equipment under Test (EUT)

VOREZA II is subscriber equipment in the GSM/WCDMA/LTE system. The WCDMA frequency band is Band II /V.

2.5 Internal Identification of AE used during the test

AE ID*	Description
AE1	Rechargeable Li-Polymer Battery
AE2	Switching Adapter

AE2 Model: SOY-1200300 INPUT: 100-240V~ 50/60Hz 1.2A max. OUTPUT: DC 12.0V 3.0A, 36.0W

2.6 Normal Accessory setting

N/A

2.7 EUT configuration

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

• - supplied by the manufacturer

 $\ensuremath{\bigcirc}$ - supplied by the lab

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

2.8 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AM8GVOREZA filing to comply with FCC Part 22, 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:

As WCDMA, HSDPA and HSUPA with the same emission designator, test result recorded in this report at the worst case UMTS only after exploratory scan.

2.10.2 Test Environment

Test Environment (the vol 1 and the vol 2 were tested , recorded the worst case results in this report (the vol 1))

EnvironmentParameter	SelectedValuesDuringTests			
Relative Humidity	Ambient			
Temperature	TN Ambient			
Voltage (vol 1)	VL	10.2V		
	VN	12.0V		
	VH	13.8V		

EnvironmentParameter	SelectedValuesDuringTests			
Relative Humidity	Ambient			
Temperature	TN Ambient			
Voltage (vol 2)	VL	6.46V		
	VN	7.6V		
	VH	8.74V		

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

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3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen LCS Compliance Testing Laboratory Ltd

101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China 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:

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

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) (Band V)

-	• • • • • •				
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 10 th 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	§24.232	≤13dB	Pass		
NOTE 1: For the verdict, the "N/A"	denotes "not app	blicable", the "N/T" de notes "not	t tested".		

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3.4.2 PCS Band (1850-1910MHz paired with 1930-1990MHz) (Band II)

Test Item	FCC Rule No.	Requirements	Verdict
Effective(Isotropic) Radiated Output Power	§2.1046, §24.232	EIRP ≤ 2W	Pass
Peak-Average Ratio	§2.1046, §24.232	≤13dB	Pass
Modulation Characteristics	§2.1047	Digital modulation	N/A
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §24.238	 ≤ -13dBm/1%*EBW, In 1MHz bands immediately outside and adjacent to The frequency block. 	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238	≤-13dBm/1MHz, from 9kHz to10 th harmonics but outside authorized operating frequency ranges.	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238	≤ -13dBm/1MHz.	Pass
Frequency Stability	§2.1055, §24.235	≤ ±2.5ppm.	Pass
NOTE 1: For the verdict, the "N/A"	denotes "not appli	cable", the "N/T" de notes "not t	ested"

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

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3.5 Equipments Used during the Test

lte m	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRVS	100444	2020-06-22	2021-06-21
2	Power Sensor	R&S	NRV-Z81	100458	2020-06-22	2021-06-21
3	Power Sensor	R&S	NRV-Z32	10057	2020-06-22	2021-06-21
4	LTE Test Software	Tonscend	JS1120-1	N/A	N/A	N/A
5	RF Control Unit	Tonscend	JS0806	158060009	2020-11-17	2021-11-16
6	MXA Signal Analyzer	Agilent	N9020A	MY51250905	2020-11-17	2021-11-16
7	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2020-06-22	2021-06-21
8	DC Power Supply	Agilent	E3642A	N/A	2020-11-13	2021-11-12
9	EMI Test Software	Farad	EZ	N/A	N/A	N/A
10	3m Full Anechoic Chamber	MRDIANZI	FAC-3M	MR009	2020-09-26	2021-09-25
11	Positioning Controller	MF	MF7082	MF78020803	2020-06-22	2021-06-21
12	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2018-07-26	2021-07-25
13	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2018-07-26	2021-07-25
14	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2018-07-02	2021-07-01
15	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2020-09-20	2023-09-19
16	Broadband Preamplifier	SCHWARZBECK	BBV9745	9719-025	2020-06-22	2021-06-21
17	EMI Test Receiver	R&S	ESR 7	101181	2020-06-22	2021-06-21
18	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2020-11-17	2021-11-16
19	Broadband Preamplifier	/	BP-01M18G	P190501	2020-06-22	2021-06-21
20	RF Cable-R03m	Jye Bao	RG142	CB021	2020-06-22	2021-06-21
21	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2020-06-22	2021-06-21
22	6dB Attenuator	/	100W/6dB	1172040	2020-06-22	2021-06-21
23	3dB Attenuator	/	2N-3dB	/	2020-11-17	2021-11-16
24	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2020-10-08	2021-10-07

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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	3.80 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

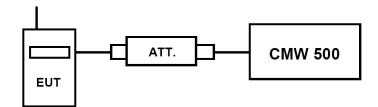
4.1 Output Power

TEST APPLICABLE

During the process of testing, the EUT was controlled via R&S WIDEBAND RADIO COMMUNICATION TESTER (CMW 500) 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 CMW 500 by an Att.
- c) EUT Communicate with CMW 500 then selects a channel for testing.
- d) Add a correction factor to the display CMW 500, and then test.

TEST RESULTS

	band	WCDMA Band II result (dBm)			WCDMA Band V result (dBm)			
Item		Channe	l/Frequent	cy(MHz)	Channe	Channel/Frequency(MHz)		
	sub-test	9262/	9400/	9538/	4132/	4183/	4233/	
	Sub-lesi	1852.4	1880	1907.6	826.4	836.6	846.6	
RMC	12.2kbps	23.43	23.65	23.48	23.42	23.41	23.53	
Sub –Te	Sub –Test 1	22.97	22.93	22.90	22.71	22.80	22.89	
HSDPA	Sub –Test 2	22.82	22.71	22.74	22.78	22.76	22.85	
HSDFA	Sub –Test 3	22.89	22.71	22.72	22.74	22.87	22.84	
	Sub –Test 4	22.78	22.76	22.73	22.80	22.77	22.88	
	Sub –Test 1	22.83	22.79	22.79	22.80	22.77	22.82	
	Sub –Test 2	22.84	22.72	22.78	22.77	22.70	22.81	
HSUPA	Sub –Test 3	22.73	22.74	22.76	22.77	22.78	22.88	
	Sub –Test 4	22.80	22.76	22.90	22.82	22.74	22.71	
	Sub –Test 5	22.77	22.82	22.88	22.79	22.71	22.72	

4.1.1 Radiated Output Power

TEST DESCRIPTION

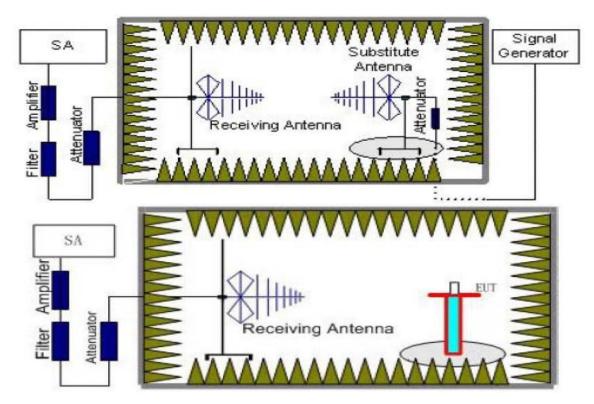
This is the test for the maximum radiated power from the EUT.

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."

Per Part 27.50(d) (4) specifies, Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755MHz band are limited to 1W EIRP. Fixed stations operating in this band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in this band must employ a means for limiting power to the minimum necessary for successful communications.

TEST CONFIGURATION



TEST PROCEDURE

- 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

This report shall not be reproduced except in full, without the written approval of Shenzhen LCS Compliance Testing Laboratory Ltd. Page 15 of 34 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.

- 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)(5), 24.232(c),27.50(d) the ERP(EIRP) should be not exceeding following table limits:

	Burst Average EIRP
UMTS Band II	FCC: ≤33.01dBm (2W)
	Burst Average ERP

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

TEST RESULTS

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. $EIRP=P_{Mea}(dBm)-P_{cl}(dB)+P_{Ag}(dB)+G_{a}(dBi)$
- 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 _{Ag} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.4	-18.88	4.03	8.38	35.51	20.98	33.01	-12.03	V
1880.0	-18.84	4.08	8.33	35.56	20.97	33.01	-12.04	V
1907.6	-18.62	4.14	8.26	35.63	21.13	33.01	-11.88	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
826.4	-16.08	3.45	8.45	2.15	33.79	20.56	38.45	-17.89	V
836.4	-16.47	3.49	8.45	2.15	33.85	20.19	38.45	-18.26	V
846.6	-16.22	3.55	8.36	2.15	33.88	20.32	38.45	-18.13	V

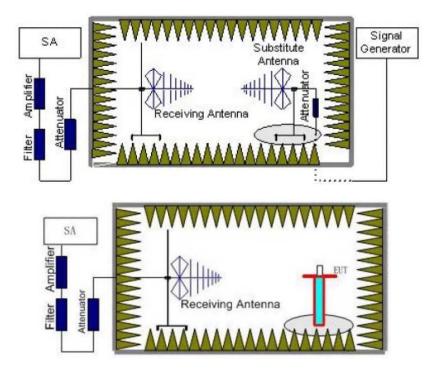
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4.2 Radiated Spurious Emssion

TEST APPLICABLE

According to the TIA-603-E:2016 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 27.238, 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, WCDMA Band IV and WCDMA Band V.

TEST CONFIGURATION



TEST PROCEDURE

- 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.
- 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.

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- Cable should be connect between the signal generator and the Substitution Antenna. The cable loss (P_{cl})and the signal generator P_{Mea} should be recorded after test. The measurement results are obtained as described below: Power(EIRP)=P_{Mea} - 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
WCDMA Band V	1~2	1 MHz	3 MHz	2
	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
	Low	9KHz - 10GHz	PASS
UMTS/TM1/ WCDMA Band V	Middle	9KHz - 10GHz	PASS
Ballu v	High	9KHz - 10GHz	PASS
UMTS/TM1/ WCDMA	Low	9KHz - 20GHz	PASS
Band II	Middle	9KHz - 20GHz	PASS
Ballu II	High	9KHz - 20GHz	PASS

TEST RESULTS

Remark:

1. We were tested all Configuration refer 3GPP TS134 121.

2. $EIRP=P_{Mea}(dBm)-P_{cl}(dB)+G_a(dBi)$

- 3. ERP = EIRP 2.15dBi as EIRP by subtracting the gain of the dipole.
- 4. Margin = EIRP Limit

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	-39.71	5.26	3.00	9.88	-35.09	-13.00	-22.09	Н
5557.2	-44.50	6.11	3.00	11.36	-39.25	-13.00	-26.25	Н
3704.8	-44.37	5.26	3.00	9.88	-39.75	-13.00	-26.75	V
5557.2	-48.53	6.11	3.00	11.36	-43.28	-13.00	-30.28	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	-38.15	5.32	3.00	10.03	-33.44	-13.00	-20.44	Н
5640.0	-43.85	6.19	3.00	11.41	-38.63	-13.00	-25.63	Н
3760.0	-43.78	5.32	3.00	10.03	-39.07	-13.00	-26.07	V
5640.0	-47.95	6.19	3.00	11.41	-42.73	-13.00	-29.73	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	-43.45	5.36	3.00	9.62	-39.19	-13.00	-26.19	Н
5722.8	-51.72	6.24	3.00	11.46	-46.50	-13.00	-33.50	Н
3815.2	-46.70	5.36	3.00	9.62	-42.44	-13.00	-29.44	V
5722.8	-53.19	6.24	3.00	11.46	-47.97	-13.00	-34.97	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	-47.64	3.86	3.00	8.56	-42.94	-13.00	-29.94	Н
2479.2	-48.86	4.29	3.00	6.98	-46.17	-13.00	-33.17	Н
1652.8	-44.46	3.86	3.00	8.56	-39.76	-13.00	-26.76	V
2479.2	-47.64	3.86	3.00	8.56	-42.94	-13.00	-29.94	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	-49.40	3.9	3.00	8.58	-44.72	-13.00	-31.72	Н
2509.2	-51.01	4.32	3.00	6.8	-48.53	-13.00	-35.53	Н
1672.8	-44.99	3.9	3.00	8.58	-40.31	-13.00	-27.31	V
2509.2	-45.50	4.32	3.00	6.8	-43.02	-13.00	-30.02	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	-52.17	3.91	3.00	9.06	-47.02	-13.00	-34.02	Н
2539.8	-54.56	4.32	3.00	6.65	-52.23	-13.00	-39.23	Н
1693.2	-49.08	3.91	3.00	9.06	-43.93	-13.00	-30.93	V
2539.8	-50.79	4.32	3.00	6.65	-48.46	-13.00	-35.46	V

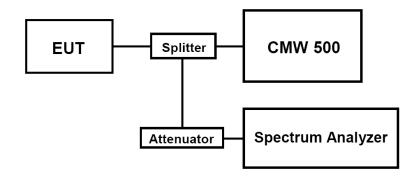
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4.3 Occupied Bandwidth and Emission Bandwith

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

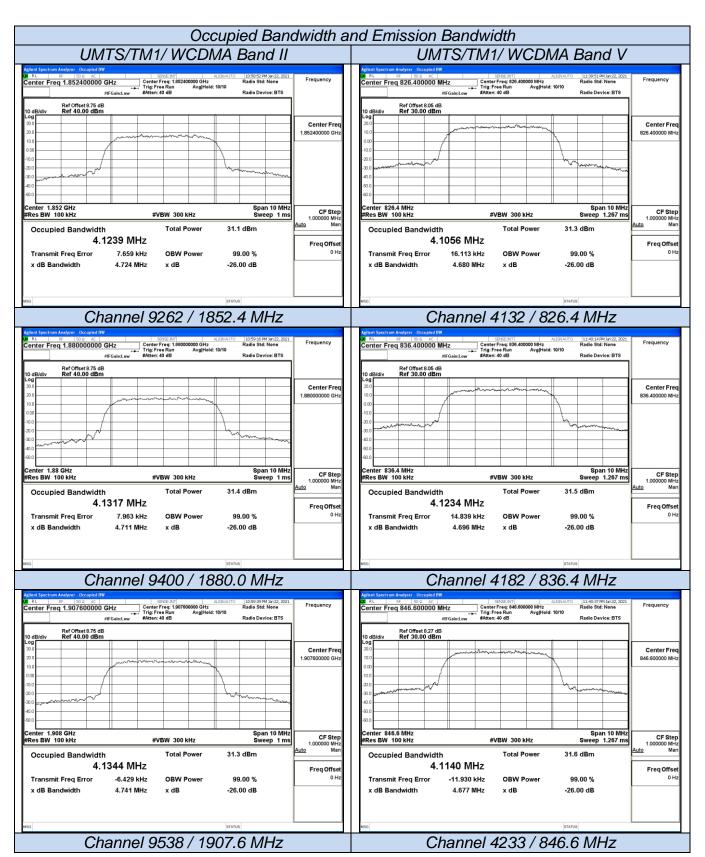
- 1. The EUT was set up for the max output power with pseudo random data modulation;
- The Occupied bandwidth and Emission Bandwidth were measured with Aglient Spectrum Analyzer N9020A (peak);
- 3. Set RBW=100KHz,VBW=300KHz,Span=10MHz,SWT=Auto;
- 4. Set SPA Max hold and View, Set 99% Occupied Bandwidth/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

Test Mode	Channel	Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	Emission Bandwidth (-26 dBc BW) (MHz)	Verdict
	9262	1852.4	4.1239	4.724	PASS
UMTS/TM1/ WCDMA Band II	9400	1880.0	4.1317	4.711	PASS
	9538	1907.6	4.1344	4.741	PASS
UMTS/TM1/	4132	826.4	4.1056	4.680	PASS
WCDMA Band	4182	836.4	4.1234	4.696	PASS
V	4233	846.6	4.1140	4.677	PASS

TEST RESULTS

Remark:

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



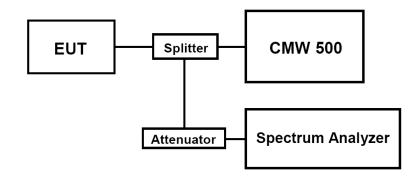
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4.4 Band Edge Compliance

TEST APPLICABLE

During the process of testing, the EUT was controlled via R&S WIDEBAND RADIO COMMUNICATION TESTER (CMW 500) 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=51KHz,VBW=200KHz,Span=10MHz,SWT=Auto,Dector: RMS;

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

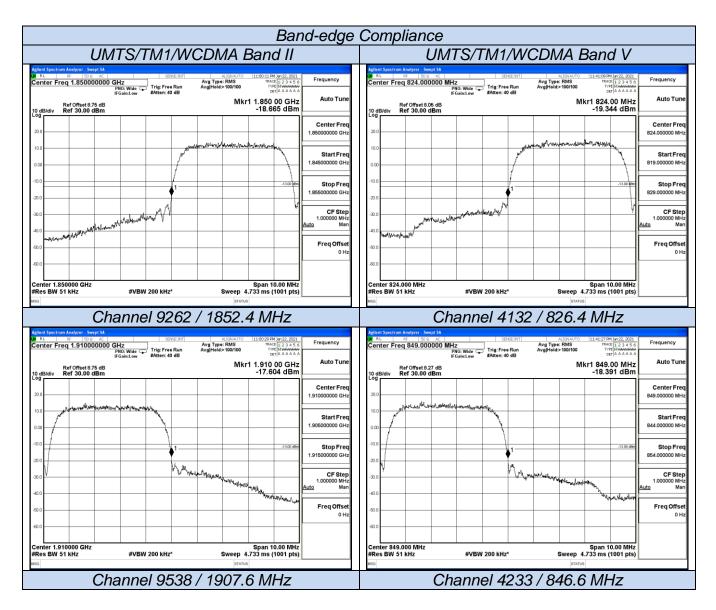
TEST RESULTS

UMTS/TM1/WCDMA Band II										
Test Mode	Channel	Frequency (MHz)	Band Edg Compliance (dBm)	Limits (dBm)	Verdict					
UMTS/TM1/WCDMA	9262	1852.4	<-13dBm	-13dBm	DAGG					
Band II	9538	1907.6	<-13dBm	-13dBm	PASS					
		UMTS/TM1/WCI	DMA Band V							
Test Mode	Channel	Frequency (MHz)	Band Edg Compliance (dBm)	Limits (dBm)	Verdict					
UMTS/TM1/WCDMA	4132	826.4	<-13dBm	-13dBm						
Band V	4233	846.6	<-13dBm	-13dBm	PASS					
Danu v	1513	1752.60	<-13dBm	-13dBm						

Remark:

1. Test results including cable loss;

2. Please refer to following plots;



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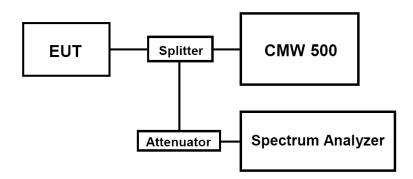
4.5 Spurious Emssion on Antenna Port

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/IV, 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 20 GHz,data taken from 30 MHz to 20 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.
- 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/IV/V. (low, middle and high of operational frequency range).

<u>TEST LIMIT</u>

Part 24.238, Part 22.917 and Part 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.

TEST RESULTS

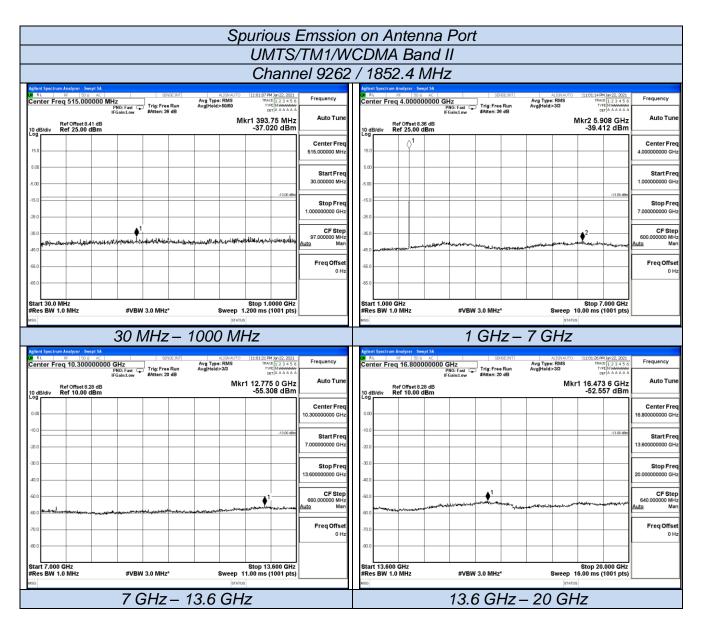
Test Mode	Channel	Frequency (MHz)	Spurious RF Conducted Emission (dBm)	Limits (dBm)	Verdict
UMTS/TM1/WCDMA	9262	1852.4	<-13dBm	-13dBm	
Band II	9400	1880.0	<-13dBm	-13dBm	PASS
Band II	9538	1907.6	<-13dBm	-13dBm	
UMTS/TM1/WCDMA	4132	826.4	<-13dBm	-13dBm	
Band V	4182	836.4	<-13dBm	-13dBm	PASS
	4233	846.6	<-13dBm	-13dBm	

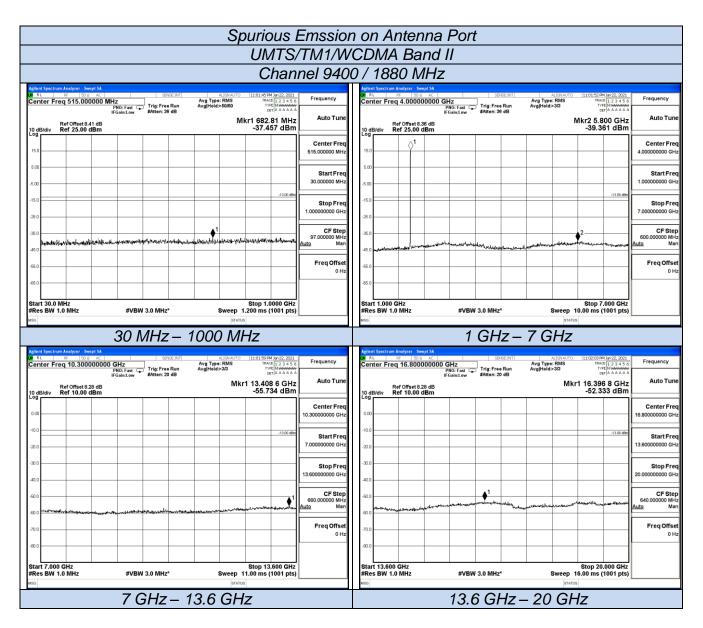
Remark:

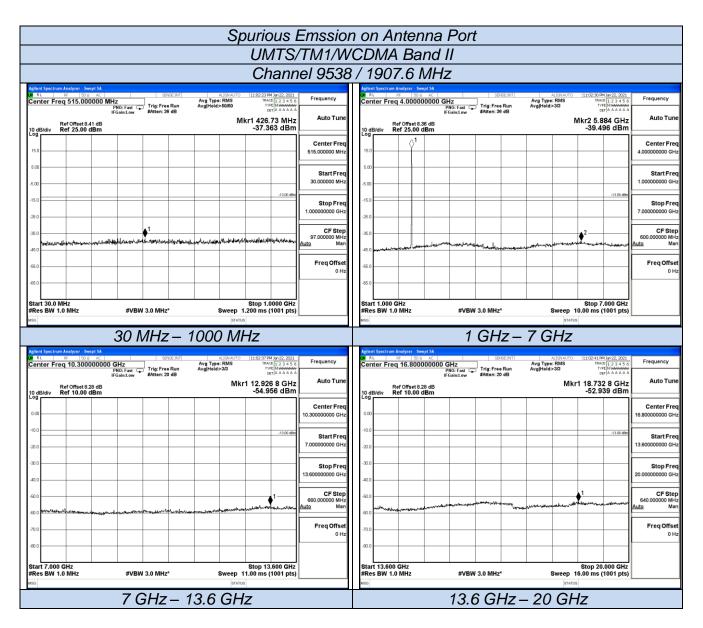
1. Test results including cable loss;

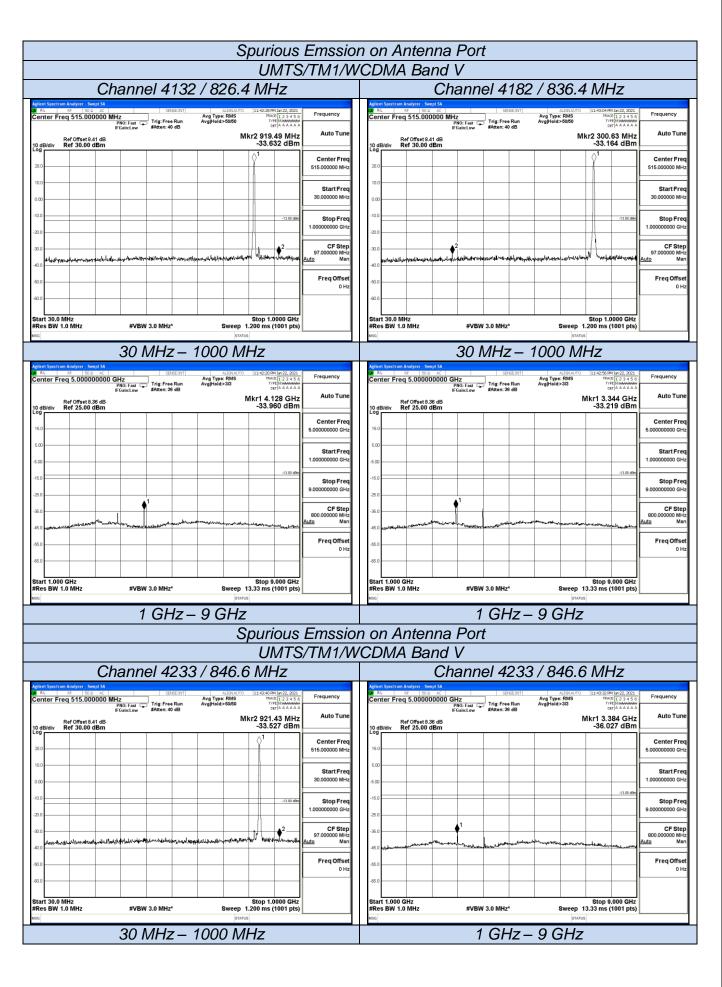
2. Please refer to following plots;

3. Not reorded test plots from 9 KHz to 30 MHz as emission levels 20dB lower than emission limit;









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4.6 Frequency Stability Test

TEST APPLICABLE

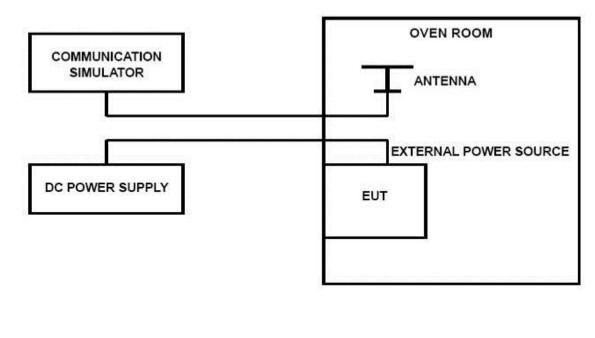
- 1. According to FCC Part 2 Section 2.1055 (a)(1), the frequency stability shall be measured with variation of ambient temperature from -30°C to +50°C centigrade.
- 2. According to FCC Part 2 Section 2.1055 (e)(2) and RSS-GEN, for battery powered equipment, the frequency stability shall be measured 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 10.2V.

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 WIDEBAND RADIO COMMUNICATION TESTER (CMW 500).

- 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 CMW 500 and in a simulated call on middle channel of WCDMA Band II/IV/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;
- Subject the EUT to overnight soak at +50°C;
- With the EUT, powered via nominal voltage, connected to the CMW 500 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



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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 4.30VDC, with a nominal voltage of 3.80DC. 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.

UMTS/TM1/WCDMA Band II							
DC Power	Temperature (℃)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict		
6.46	25	-7	-0.004	2.50	PASS		
7.6	25	-13	-0.007	2.50	PASS		
8.74	25	17	0.009	2.50	PASS		
7.6	0	-7	-0.004	2.50	PASS		
7.6	10	-6	-0.003	2.50	PASS		
7.6	20	-20	-0.011	2.50	PASS		
7.6	30	16	0.009	2.50	PASS		
7.6	40	14	0.007	2.50	PASS		
7.6	50	6	0.003	2.50	PASS		

TEST RESULTS

UMTS/TM1/WCDMA Band V							
DC Power	Temperature (℃)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict		
6.46	25	-18	-0.022	2.50	PASS		
7.6	25	-12	-0.015	2.50	PASS		
8.74	25	-10	-0.012	2.50	PASS		
7.6	0	-20	-0.024	2.50	PASS		
7.6	10	-20	-0.024	2.50	PASS		
7.6	20	5	0.006	2.50	PASS		
7.6	30	19	0.023	2.50	PASS		
7.6	40	-18	-0.022	2.50	PASS		
7.6	50	-13	-0.016	2.50	PASS		

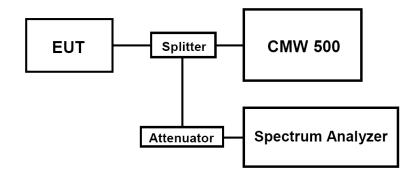
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4.7 Peak-to-Average Ratio (PAR)

<u>LIMIT</u>

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

TEST CONFIGURATION



TEST PROCEDURE

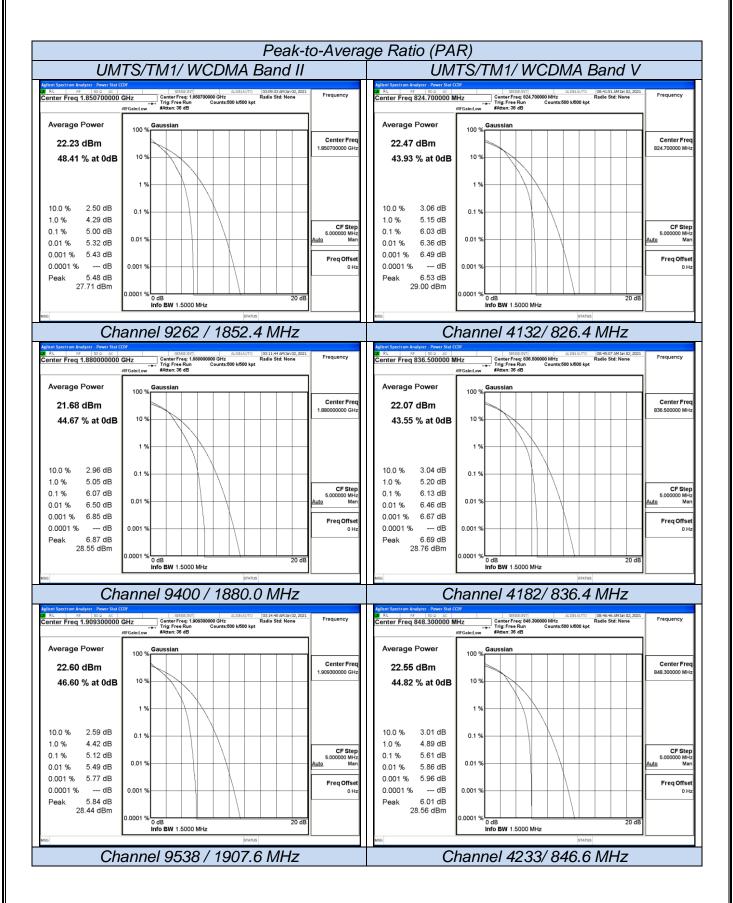
- 1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 4. Set the measurement interval 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 PAR level associated with a probability of 0.1%.

TEST RESULTS

Test Mode	Channel	Frequency (MHz)	PAPR Value (dB)	Limits (dB)	Verdict
UMTS/TM1/	9262	1852.4	5.00	13.0	PASS
WCDMA Band	9400	1880.0	6.07	13.0	PASS
II	9538	1907.6	5.12	13.0	PASS
UMTS/TM1/	4132	826.4	6.03	13.0	PASS
WCDMA Band	4182	836.4	6.13	13.0	PASS
V	4233	846.6	5.61	13.0	PASS

Remark:

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



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5 Test Setup Photos of the EUT

Please refer to Test Photo.

6 External Photos of the EUT

Please refer to External Photos.

7 Internal Photos of the EUT

Please refer to Internal Photos.

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