

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

FCC TEST REPORT

FCC Part 22/Part 24

Report Reference No...... GTS20211218008-1-19

FCC ID.....: 2AYD5-I22M01

Compiled by

(position+printed name+signature)..: File administrators Peter Xiao

Supervised by

(position+printed name+signature)..: Test Engineer Jenny Zeng

Approved by

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

Date of issue...... Aug.08, 2022

Representative Laboratory Name .: Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative

Address Garden, No.98, Pingxin North Road, Shangmugu Community,

Pinghu Street, Longgang District, Shenzhen, Guangdong

Applicant's name...... Imin Technology Pte Ltd

Test specification:

FCC CFR Title 47 Part 2, Part 22H, Part 24E

Standard TIA-603-E March 2016

FCC KDB971168 D01 Power Meas License Digital Systems

v03r01

TRF Originator...... Shenzhen Global Test Service Co.,Ltd...

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Test item description POS Device

Trade Mark:

Manufacturer Imin Technology Pte Ltd

Model/Type reference...... I22M01

Listed Models: N/A

Modulation Type QPSK, 16QAM

Hardware Version N/A
Software Version N/A

Rating DC 7.6V by Battery

Recharged by DC 5.0V/2.0A

Result.....: PASS

TEST REPORT

Test Report No. :	GTS20211218008-1-19	Aug.08, 2022
	G1320211210000-1-19	Date of issue

Equipment under Test : POS Device

Model /Type : I22M01

Listed model : N/A

Applicant : Imin Technology Pte Ltd

Address : 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943

Manufacturer : Imin Technology Pte Ltd

Address : 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943

Test result	Pass *
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^{*} In the configuration tested, the EUT complied with the standards specified page 4.

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.

Contents

1 SUMMARY	4
1.1 TEST STANDARDS	4
2 GENERAL INFORMATION	5
2.1 General Remarks	<u></u>
2.2 Product Description	
2.3 Equipment Under Test	7
2.4 Short description of the Equipment under Test (EUT)	7
2.5 Environmental conditions	7
2.6 Description of Test Modes	7
2.7 Block Diagram of Test Setup	
2.8 Special Accessories	
2.9 Related Submittal(s) / Grant (s)	
2.10 Modifications	7
3 TEST ENVIRONMENT	8
3.1 Address of the test laboratory	8
3.2 Test Facility	
3.3 Environmental conditions	8
3.4 Statement of the measurement uncertainty	8
3.5 Test Description	
3.6 Equipments Used during the Test	10
4 TEST CONDITIONS AND RESULTS	11
4.1 Output Power	11
4.2 Peak-to-Average Ratio (PAR)	15
4.3 Occupied Bandwidth and Emission Bandwidth	17
4.4 Band Edge compliance	19
4.5 Spurious Emission	
4.6 Frequency Stability under Temperature & Voltage Variations	29
5 TEST SETUP PHOTOS OF THE EUT	31
6 EXTERNAL AND INTERNAL PHOTOS OF THE FUT	31

1 SUMMARY

1.1 TEST STANDARDS

The tests were performed according to following standards:

FCC Part 22: PUBLIC MOBILE SERVICES

FCC Part 24: PERSONAL COMMUNICATIONS SERVICES

<u>TIA-603-E March 2016:</u> Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

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

FCC KDB971168 D01 Power Meas License Digital Systems v03r01

ANSI C63.26:2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

2 **GENERAL INFORMATION**

2.1 General Remarks

Date of receipt of test sample		Jun. 20, 2022
Testing commenced on	:	Jun. 20, 2022
Testing concluded on	:	Aug.06, 2022

2.2 Product Description

Trade Mark	Product Name	POS Device			
List Models	Trade Mark	imin			
List Models	Model/Type reference	122M01			
DC 7.6V by Battery					
DC 7.6V by Battery					
Recharged by DC 5.0V/2.0A		DC 7.6V by Battery			
Bluetooth Operation frequency Channel Number 79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS) Channel Spacing 1MHz for Bluetooth (DTS) Modulation Type GFSK, firl4-DQPSK, 8DPSK for Bluetooth (DSS) (GFSK for Bluetooth (DTS) WIFI(2.4G Band) Frequency Range 2412MHz - 2462MHz Channel Spacing 5MHz Channel Spacing 5MHz Channel Number 11 Channel for 20MHz bandwidth(2412-2462MHz) 7 Channel for 40MHz bandwidth(2422-2452MHz) Modulation Type 802.11b: DSSS; 802.11g/n: OFDM WIFI(5.2G/5.3G/5.7G Band) Frequency Range 5180MHz - 5240MHz, 5260MHz - 5320MHz, 5500MHz - 5700MHz 4 Channels for 20MHz bandwidth(6180-5240MHz) 4 Channels for 20MHz bandwidth(5100-5230MHz) 2 channels for 20MHz bandwidth(5100-5230MHz) 2 channels for 40MHz bandwidth(5100-5700MHz) 2 channels for 40MHz bandwidth(5970-5310MHz) 5 Channels for 80MHz bandwidth(5270-5310MHz) 1 channels for 80MHz bandwidth(52100-5870MHz) 1 channels for 80MHz bandwidth(5510-5670MHz) 1 channels for 80MHz bandwidth(5530-5610MHz) 2 Channels for 80MHz bandwidth(5530-5610MHz) 1 channels for 80MHz bandwidth(5530-5610MHz) 2 Channels for 80MHz bandwidth(5530-5610MHz) 3 Channels for 80MHz bandwidth(5530-5610MHz) 4 Channels for 80MHz bandwidth(5530-5610MHz) 5 Channels for 80MHz bandwidth(5530-5610MHz) 1 channels for 80MHz bandwidth(5530-5610MHz) 2 Channels for 80MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5755-6795MHz) 1 channels for 80MHz bandwidth(5755-6795MHz) 1 channels for 80MHz bandwidth(5755-6795MHz) 1 channels for 80MHz bandwidth(5775MHz) Modulation Type 802.11a/n/ac: OFDM Antenna Description FPC Antenna, 1.82dBi(Max.) for 2.4G Band and 2.16dBi(Max.) for 5G Band 2G Support Band GSM850/GSM1900/GPRS850/GPRS1900/EDGE850/EDGE1900					
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Channel Number 79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS) Channel Spacing 1MHz for Bluetooth (DTS) Modulation Type GFSK, The Bluetooth (DTS) Modulation Type GFSK, The Bluetooth (DTS) WIFI(2.4G Band) Frequency Range 2412MHz ~ 2462MHz Channel Spacing 5MHz Channel Number 11 Channel for 20MHz bandwidth(2412~2462MHz) T Channel Number 7 Channel for 20MHz bandwidth(2412~2462MHz) T Channel Number 802.11b: DSSS; 802.11g/n: OFDM WIFI(5.2G/5.3G/5.7G Band) Frequency Range 5180MHz ~ 5240MHz, 5260MHz ~ 5320MHz, 5500MHz ~ 5700MHz 4 Channels for 20MHz bandwidth(5180-5240MHz) 4 Channels for 20MHz bandwidth(5800-5300MHz) 11 Channels for 20MHz bandwidth(5190~5230MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 2 channels for 40MHz bandwidth(5210~5310MHz) 1 channels for 80MHz bandwidth(5210~5670MHz) 1 channels for 80MHz bandwidth(5210MHz) 1 channels for 80MHz bandwidth(5210MHz) 2 Channels for 80MHz bandwidth(5200MHz) 2 Channels for 80MHz bandwidth(5300-5610MHz) 4 Channels for 80MHz bandwidth(5300-5610MHz) 5 Channels for 80MHz bandwidth(5210MHz) 1 channels for 80MHz bandwidth(5710MHz) 2 Channels for 80MHz bandwidth(5710MHz) 1 channels for 80MHz bandwidth(5710MHz) 2 Channels for 80MHz bandwidth(5710MHz) 3 Channels for 80MHz bandwidth(5710MHz) 4 Channels for 80MHz bandwidth(5710MHz) 5 Channels for 80MHz bandwidth(5745-5825MHz) 2 Channels for 40MHz bandwidth(5755-5795MHz) 1 channels for 80MHz bandwidth(5755-5795MHz) 1 channels for 80MHz bandwidth(5775-5795MHz) 1 channels for 80MHz bandwidth(5755-5795MHz) 2 channels for 80MHz bandwidth(5755-5795MHz) 3 Channels for 80MHz bandwidth(5755-5795MHz) 4 Channels for 80MHz bandwidth(5755-5795MHz) 5 Channels for 80MHz bandwidth(5775-5795MHz) 5 Channels	Bluetooth				
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Modulation Type					
Modulation Type GFSK, π/4-DQPSK, 8DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)	Channel Spacing				
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Frequency Range 5745MHz ~ 5825MHz Channel Number 5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5775MHz) Modulation Type 802.11a/n/ac: OFDM Antenna Description FPC Antenna, 1.82dBi(Max.) for 2.4G Band and 2.16dBi(Max.) for 5G Band 2G Support Band GSM850/GSM1900/GPRS850/GPRS1900/EDGE850/EDGE1900	Modulation Type	802.11a/n/ac: OFDM			
Channel Number 5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5775MHz) Modulation Type 802.11a/n/ac: OFDM Antenna Description FPC Antenna, 1.82dBi(Max.) for 2.4G Band and 2.16dBi(Max.) for 5G Band 2G Support Band GSM850/GSM1900/GPRS850/GPRS1900/EDGE850/EDGE1900	WIFI (5.8G Band)				
Channel Number 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5775MHz) Modulation Type 802.11a/n/ac: OFDM Antenna Description FPC Antenna, 1.82dBi(Max.) for 2.4G Band and 2.16dBi(Max.) for 5G Band 2G Support Band GSM850/GSM1900/GPRS850/GPRS1900/EDGE850/EDGE1900	Frequency Range	5745MHz ~ 5825MHz			
1 channels for 80MHz bandwidth(5775MHz) Modulation Type 802.11a/n/ac: OFDM Antenna Description FPC Antenna, 1.82dBi(Max.) for 2.4G Band and 2.16dBi(Max.) for 5G Band 2G Support Band GSM850/GSM1900/GPRS850/GPRS1900/EDGE850/EDGE1900		5 channels for 20MHz bandwidth(5745-5825MHz)			
Modulation Type 802.11a/n/ac: OFDM Antenna Description FPC Antenna, 1.82dBi(Max.) for 2.4G Band and 2.16dBi(Max.) for 5G Band 2G Support Band GSM850/GSM1900/GPRS850/GPRS1900/EDGE850/EDGE1900	Channel Number				
Antenna Description FPC Antenna, 1.82dBi(Max.) for 2.4G Band and 2.16dBi(Max.) for 5G Band 2G Support Band GSM850/GSM1900/GPRS850/GPRS1900/EDGE850/EDGE1900		,			
2G Support Band GSM850/GSM1900/GPRS850/GPRS1900/EDGE850/EDGE1900	· · · · · · · · · · · · · · · · · · ·				
Support Band GSM850/GSM1900/GPRS850/GPRS1900/EDGE850/EDGE1900	Antenna Description	FPC Antenna, 1.82dBi(Max.) for 2.4G Band and 2.16dBi(Max.) for 5G Band			
	2G				
Polymer Vender	Support Band	GSM850/GSM1900/GPRS850/GPRS1900/EDGE850/EDGE1900			
Release version R99	Release Version	R99			

GPRS Class	Class 12
EGPRS Class	Class 12
GSM/EDGE/GPRS Power Class	GSM850:Power Class 4/ PCS1900:Power Class 1
GPRS/EDGE Multislot Class	GPRS/EDGE: Multi-slot Class 12
Type Of Modulation	GMSK for GSM/GPRS; GMSK/8PSK for EGPRS
Antenna Description	FPC Antenna; -0.60dBi (max.) For GSM 850 0.50dBi (max.) For DCS 1900
3G	
UMTS Operation Frequency Band	UMTS FDD Band 2(1850 MHz -1910MHz) UMTS FDD Band 5(824 MHz -849MHz)
WCDMA Release Version	R8
HSDPA Release Version	Release 8
HSUPA Release Version	Release 8
Modulation Type	QPSK/16QAM
Antenna Description	FPC Antenna; 0.50dBi (max.) For Band 2 -0.60dBi (max.) For Band 5
LTE	
LTE Operation Frequency Band	E-UTRA Band 2(1850 MHz -1910MHz) E-UTRA Band 4(1710 MHz -1755MHz) E-UTRA Band 7(2500 MHz -2570MHz) E-UTRA Band 17(704 MHz -716MHz) E-UTRA Band 41(2555 MHz -2655MHz)
LTE Release Version	R10
Type Of Modulation	QPSK/16QAM/64QAM
Antenna Description	FPC Antenna; 0.50dBi (max.) For LTE Band 2; 0.80dBi (max.) For LTE Band 4; 0.20dBi (max.) For LTE Band 7; -0.70dBi (max.) For LTE Band 17; -0.20dBi (max.) For LTE Band 41;
RFID(13.56MHz) (Optional)	
Frequency Range	13.56MHz
Channel Number	1
Modulation Type	ASK
Antenna Description	Internal Antenna, 0dBi (Max.)
GPS(RX)	Support
Remark:The I22M01 model have Version A: Large scan head; Version B: Small scan head;	s 2 versions, Only the scan header is different;

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	0	230V / 50 Hz	0	120V / 60Hz
		0	12 V DC	0	24 V DC
		•	Other (specified in blank below)		

DC 7.6V

2.4 Short description of the Equipment under Test (EUT)

This is a POS Device . For more details, refer to the user's manual of the EUT.

2.5 Environmental conditions

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

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

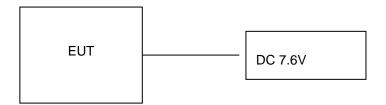
2.6 Description of Test Modes

The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

Note:

- 1. For the ERP/EIRP and radiated emission test, every axis (X, Y, Z) was verified, and show the worst resulton this report.
- 2. Test method and refer to 3GPP TS134 121.

2.7 Block Diagram of Test Setup



2.8 Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN	Adapter	TPA-46050200UU		SDOC
ELECTRONICS CO.,LTD.	Adapter	1FA-4003020000		3000

2.9 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with of the FCC Part 22, Part 24 Rules.

2.10 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, 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:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1234.

FCC Registered Test Site Number is165725.

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

3.4 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Global Test Service 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 GTS laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.5 Test Description

Test Item	Section in CFR 47	Test Sample	Result
RF Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c)	GTS20211218008-1- S0001-1#	Pass
Peak-to-Average Ratio	Part 2.1046 Part 24.232	GTS20211218008-1- S0001-1#	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049	GTS20211218008-1- S0001-1#	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 Part 24.238	GTS20211218008-1- S0001-1#	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917(b) Part 24.238	GTS20211218008-1- S0001-1#	Pass
Out of band emission, Band Edge	Part 2.1051 Part 22.917(b) Part 24.238	GTS20211218008-1- S0001-1#	Pass
Frequency stability	Part 2.1055 Part 22.355 Part 24.235	GTS20211218008-1- S0001-1#	Pass

Remark:

- The measurement uncertainty is not included in the test result.

 NA = Not Applicable; NP = Not Performed

 Note 1 Test results inside test report;

 Note 2 Test results in other test report (SAR Report).

 We tested all test mode and recorded worst case in report
- 2.
- 3.
- 4.

3.6 Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	CYBERTEK	EM5040A	E1850400105	2022/07/13	2023/07/12
LISN	R&S	ESH2-Z5	893606/008	2022/07/13	2023/07/12
EMI Test Receiver	R&S	ESPI3	101841-cd	2022/07/13	2023/07/12
EMI Test Receiver	R&S	ESCI7	101102	2021/09/19	2022/09/18
Spectrum Analyzer	Agilent	N9020A	MY48010425	2021/09/19	2022/09/18
Spectrum Analyzer	R&S	FSV40	100019	2022/07/13	2023/07/12
Vector Signal generator	Agilent	N5181A	MY49060502	2022/07/13	2023/07/12
Signal generator	Agilent	N5182A	3610AO1069	2021/09/19	2022/09/18
Climate Chamber	ESPEC	EL-10KA	A20120523	2021/09/19	2022/09/18
Controller	EM Electronics	Controller EM 1000	N/A	N/A	N/A
Horn Antenna	Schwarzbeck	BBHA 9120D	01622	2021/11/07	2022/11/06
Active Loop Antenna	Beijing Da Ze Technology Co.,Ltd.	ZN30900C	15006	2021/10/10	2022/11/09
Bilog Antenna	Schwarzbeck	VULB9163	000976	2022/07/13	2023/07/12
Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	791	2021/11/07	2022/11/06
Amplifier	Schwarzbeck	BBV 9743	#202	2022/07/13	2023/07/12
Amplifier	Schwarzbeck	BBV9179	9719-025	2022/07/13	2023/07/12
Amplifier	EMCI	EMC051845B	980355	2022/07/13	2023/07/12
Temperature/Humidity Meter	Gangxing	CTH-608	02	2022/07/13	2023/07/12
High-Pass Filter	K&L	9SH10- 2700/X12750- O/O	KL142031	2022/07/13	2023/07/12
High-Pass Filter	K&L	41H10- 1375/U12750- O/O	KL142032	2022/07/13	2023/07/12
RF Cable(below 1GHz)	HUBER+SUHN ER	RG214	RE01	2022/07/13	2023/07/12
RF Cable(above 1GHz)	HUBER+SUHN ER	RG214	RE02	2022/07/13	2023/07/12
Data acquisition card	Agilent	U2531A	TW53323507	2022/07/13	2023/07/12
Power Sensor	Agilent	U2021XA	MY5365004	2022/07/13	2023/07/12
Test Control Unit	Tonscend	JS0806-1	178060067	2022/07/13	2023/07/12
Automated filter bank	Tonscend	JS0806-F	19F8060177	2022/07/13	2023/07/12
EMI Test Software	Tonscend	JS1120-1	Ver 2.6.8.0518	/	/
Radio Communication Tester	Rohde&Schwar z	CMW500	115406	2022/07/13	2023/07/12
EMI Test Software	Tonscend	JS1120-3	Ver 2.5.77.0418	/	/
EMI Test Software	Tonscend	JS32-CE	Ver 2.5	/	/
EMI Test Software	Tonscend	JS32-RE	Ver 2.5.1.8	/	/

Note: The Cal.Interval was one year.

4 TEST CONDITIONS AND RESULTS

4.1 Output Power

LIMIT

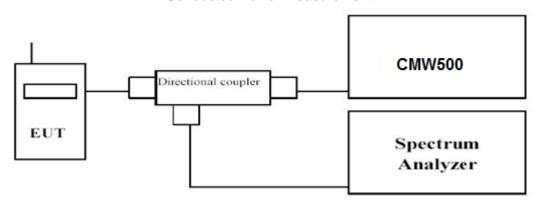
This is the test for the maximum radiated power from the EUT.

Per 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."

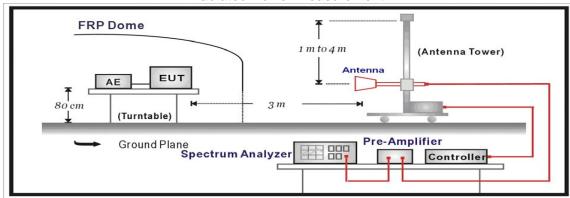
Per rule Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

TEST CONFIGURATION

Conducted Power Measurement



Radiated Power Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

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 spectrum analyzer and CMW500 by a Directional Couple.
- c) EUT Communicate with CMW500, then select a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.

Radiated Power Measurement:

- a. The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to thefrequency of the transmitter
- c. The output of the test antenna shall be connected to the measuring receiver.

- d. The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the
- e. transmitter under test.
- f. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- g. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- h. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- i. The maximum signal level detected by the measuring receiver shall be noted.
- j. The transmitter shall be replaced by a substitution antenna.
- k. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- I. The substitution antenna shall be connected to a calibrated signal generator.
- m. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- n. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- o. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- p. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- q. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- r. Test site anechoic chamber refer to ANSI C63.26.

TEST RESULTS

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Jenny Zeng	Configurations	WCDMA

Conducted Measurement:

WCDMA Band II

Mode	3GPP	Low Channel	Middle Channel	High Channel
	Sub Test	Ave.Power (dBm)	Ave.Power (dBm)	Ave. Power (dBm)
Rel 99	1	23.56	23.62	23.59
	1	23.50	23.47	23.47
HSDPA	2	22.67	22.54	22.67
ПЭПРА	3	22.70	22.59	22.63
	4	22.70	22.51	22.64
	1	22.61	22.66	22.55
	2	22.53	22.62	22.54
HSUPA	3	22.60	22.54	22.68
	4	22.61	22.52	22.52
	5	22.60	22.58	22.53

WCDMA Band V

	3GPP	Low Channel	Middle Channel	High Channel
Mode	Sub Test	Ave.Power (dBm)	Ave.Power (dBm)	Ave. Power (dBm)
Rel 99	1	23.61	23.62	23.46
	1	23.42	23.41	23.58
HSDPA	2	22.56	22.60	22.68
ПОДРА	3	22.61	22.67	22.62
	4	22.61	22.52	22.53
	1	22.63	22.57	22.65
	2	22.56	22.69	22.66
HSUPA	3	22.64	22.60	22.62
	4	22.54	22.54	22.56
	5	22.53	22.57	22.68

Radiated Measurement:

Remark:

- We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.
- 2. ERP = EIRP 2.15dBi as EIRP by subtracting the gain of the dipole.
- 3. The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 4. Absolute Level = Substituted Level Cable loss + Antenna Gain
- 5. Margin = Limit-Absolute Level

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Jenny Zeng	Configurations	WCDMA

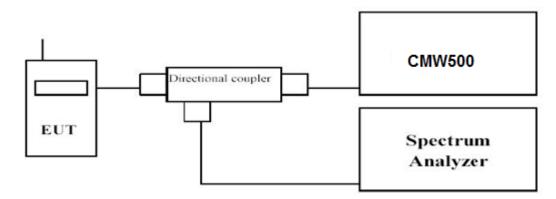
		D	Subs	stituted Met	hod	Absolute		
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss(dB)	Level EIRP/ERP (dBm)	Limit (dBm)	Margin (dB)
			WCDMA B	and II Low C	Channel			
1,852.40	Н	84.83	13.45	11.59	2.11	22.93	33.00	10.07
1,852.40	V	85.60	13.18	11.59	2.11	22.66	33.00	10.34
			WCDMA Ba	nd II Middle	Channel			
1,880.00	Н	86.52	12.75	11.56	2.14	22.17	33.00	10.83
1,880.00	V	85.58	11.47	11.56	2.14	20.89	33.00	12.11
			WCDMA B	and II High C	Channel			
1,907.60	Н	85.63	14.07	11.52	2.18	23.41	33.00	9.59
1,907.60	V	85.05	11.23	11.52	2.18	20.57	33.00	12.43
			WCDMA B	and V Low C	Channel			
826.40	Н	86.78	20.66	1.65	0.58	21.73	38.45	16.72
826.40	V	84.45	20.72	1.65	0.58	21.79	38.45	16.66
			WCDMA Ba	nd V Middle	Channel			
836.60	Н	85.60	20.99	1.59	0.65	21.93	38.45	16.52
836.60	V	85.58	20.62	1.59	0.65	21.56	38.45	16.89
	WCDMA Band V High Channel							
846.60	Н	86.23	20.13	1.53	0.71	20.95	38.45	17.50
846.60	V	85.66	20.41	1.53	0.71	21.23	38.45	17.22

4.2 Peak-to-Average Ratio (PAR)

LIMIT

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 tN/Ag 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

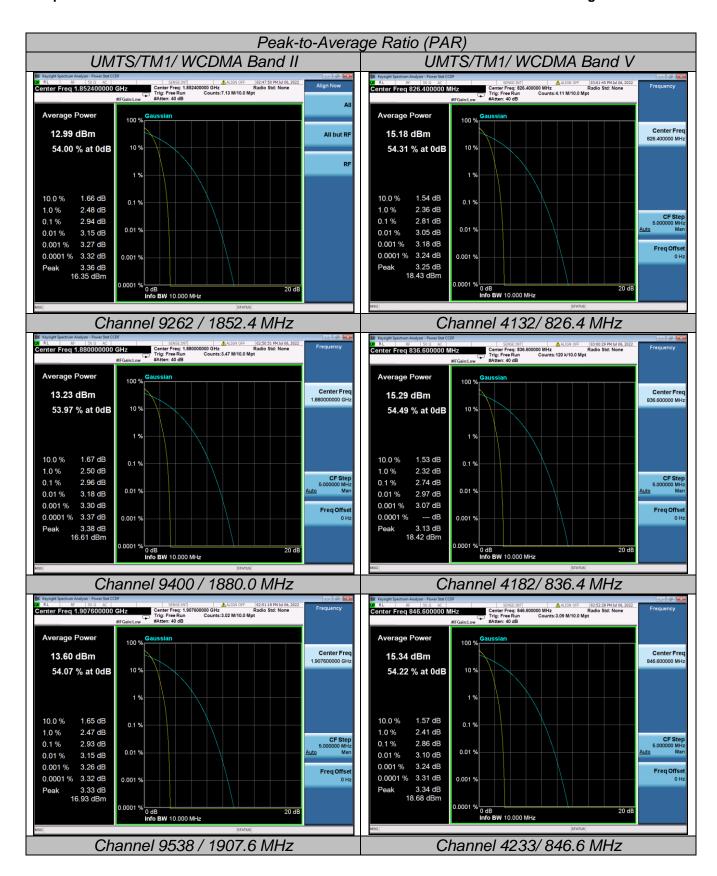
Temperature	24.5℃	Humidity	53.7%
Test Engineer	Jenny Zeng	Configurations	WCDMA

Remark:

We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.

WCDMA:

Test Mode	Channel	Frequency (MHz)	PAPR Value (dB)	Limits (dB)	Verdict
UMTS/TM1/	9262	1852.4	2.94	13.0	PASS
WCDMA Band II	9400	1880.0	2.96	13.0	PASS
WCDIVIA Ballu II	9538	1907.6	2.93	13.0	PASS
	4132	826.4	2.81	13.0	PASS
UMTS/TM1/ WCDMA Band V	4182	836.4	2.74	13.0	PASS
VVODIVIA Dana V	4233	846.6	2.86	13.0	PASS

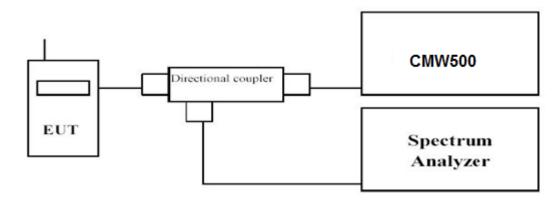


4.3 Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded. Set RBW was set to about 1% of emission BW, VBW≥3 times RBW.

-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 RESULTS

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Jenny Zeng	Configurations	WCDMA

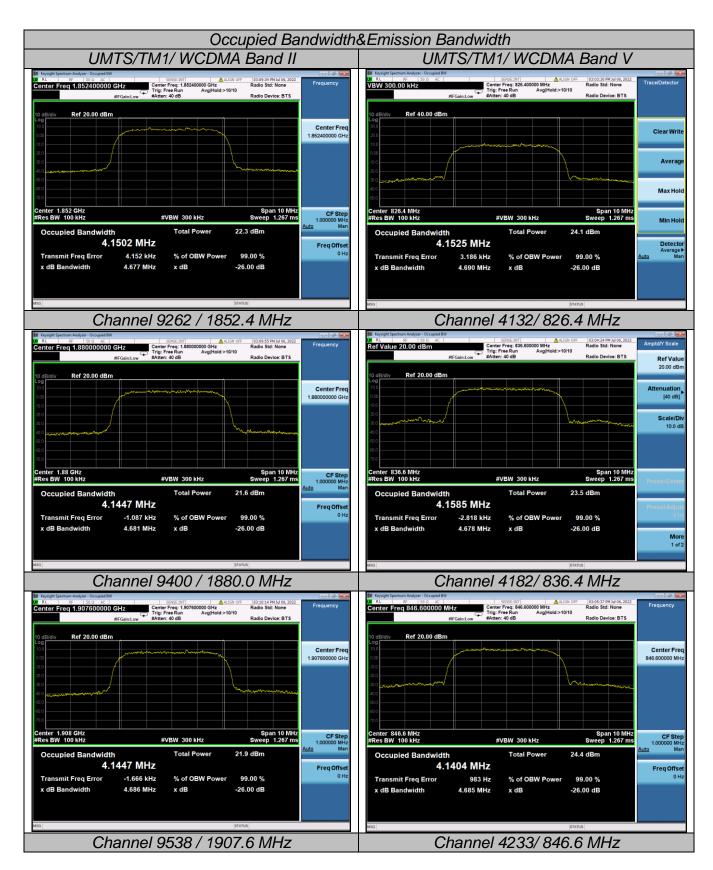
Remark:

We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.

Test Mode	Channel	Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	Emission Bandwidth (-26 dBc BW) (MHz)	Verdict
UMTS/TM1/	9262	1852.4	4.1525	4.690	PASS
WCDMA Band II	9400	1880.0	4.1585	4.678	PASS
WCDIVIA Dallu II	9538	1907.6	4.1404	4.685	PASS
UMTS/TM1/	4132	826.4	4.1502	4.677	PASS
WCDMA Band V	4182	836.4	4.1447	4.681	PASS
	4233	846.6	4.1447	4.686	PASS

Remark:

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

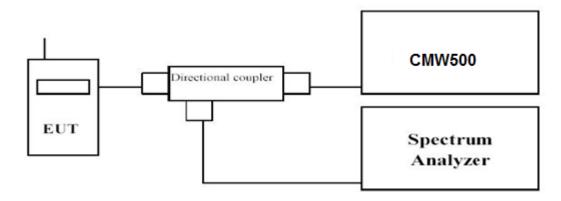


4.4 Band Edge compliance

LIMIT

FCC § 2.1053, §22.917, § 24.238.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output port was connected to base station.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
- 3. Set EUT at maximum power through base station.
- 4. Select lowest and highest channels for each band and different modulation.
- 5. Measure Band edge using RMS (Average) detector by spectrum

TEST RESULTS

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Jenny Zeng	Configurations	WCDMA

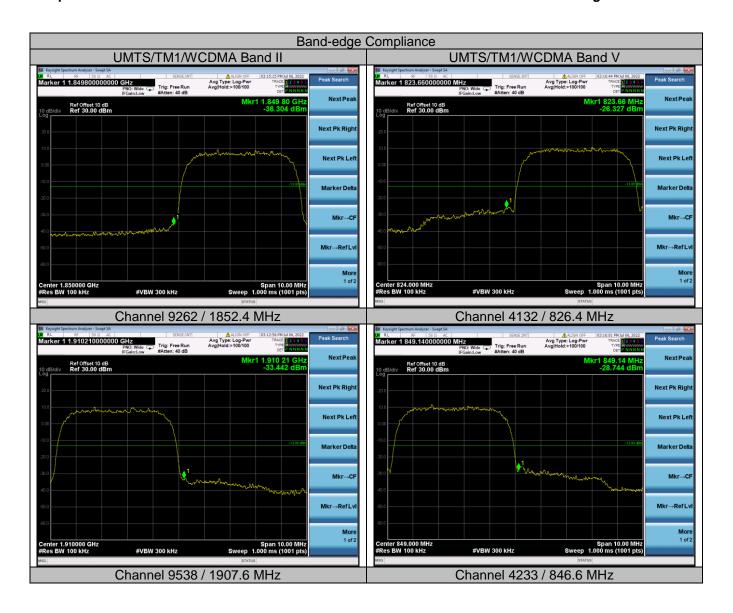
Remark

We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.

Test Mode	Channel	Frequency (MHz)	Band Edg Compliance (dBm)	Limits (dBm)	Verdict
UMTS/TM1/WCDMA	9262	1852.40	-36.304	-13dBm	PASS
Band II	9538	1907.60	-33.442	-13dBm	PASS
UMTS/TM1/WCDMA	4132	826.40	-26.327	-13dBm	PASS
Band V	4233	846.60	-28.744	-13dBm	PASS

Remark:

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



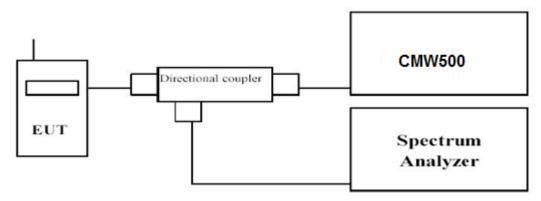
4.5 Spurious Emission

LIMIT

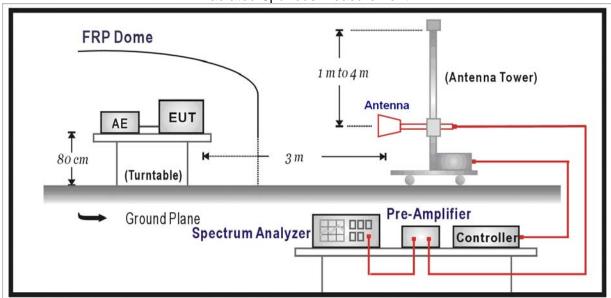
FCC § 2.1053, §22.917, § 24.238.

TEST CONFIGURATION

Conducted Spurious Measurement:



Radiated Spurious Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603-E

Conducted Spurious 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 spectrum analyzer and CMW500 by a Directional Couple
- c. EUT Communicate with CMW500, then select a channel for testing.
- d. Add a correction factor to the display of spectrum, and then test.
- e. The resolution bandwidth of the spectrum analyzer was set sufficient scans were taken to show the out of band Emission if any up to10th harmonic.
- f. Please refer to following tables for test antenna conducted emissions.

Radiated Spurious Measurement:

- The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- c. The output of the test antenna shall be connected to the measuring receiver.
- d. The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- e. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h. The maximum signal level detected by the measuring receiver shall be noted.
- i. The transmitter shall be replaced by a substitution antenna.
- j. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k. The substitution antenna shall be connected to a calibrated signal generator.
- I. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- o. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for Part 22 and 1MHz for Part 24. The frequency range was checked up to 10th harmonic.
- r. Test site anechoic chamber refer to ANSI C63.4:2014.

TEST RESULTS

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Jenny Zeng	Configurations	WCDMA

Conducted Measurement:

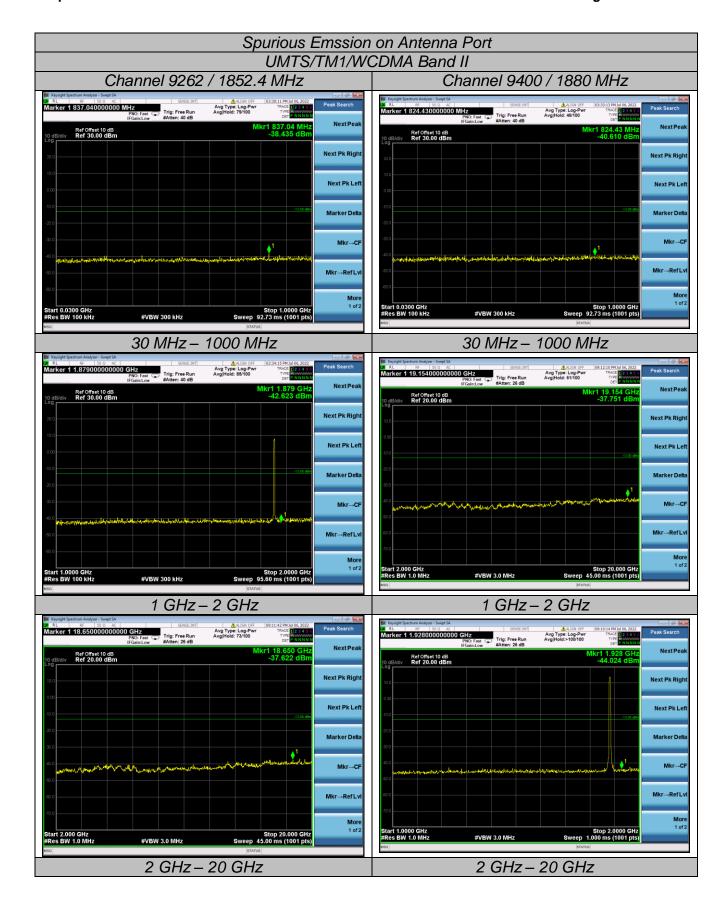
Remark:

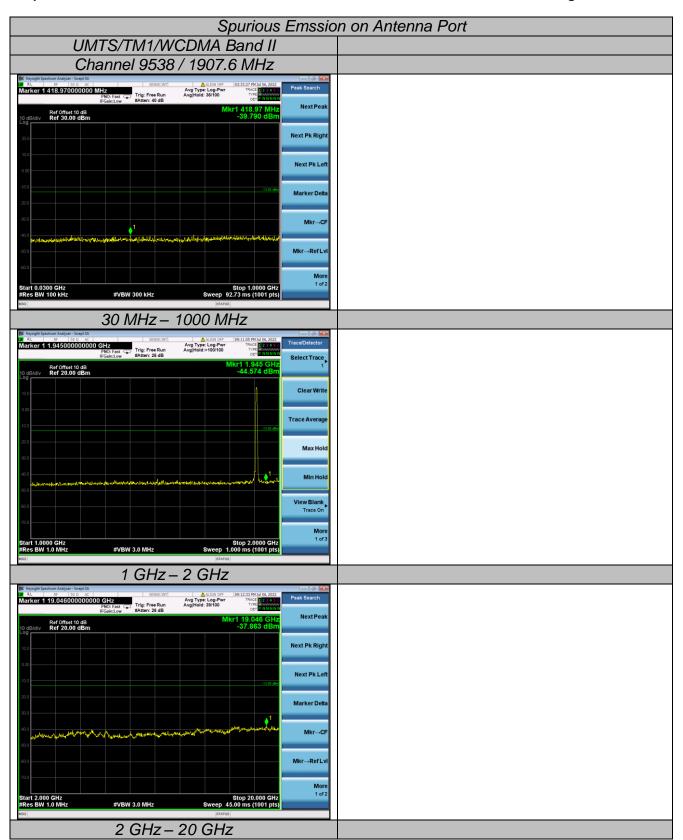
We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.

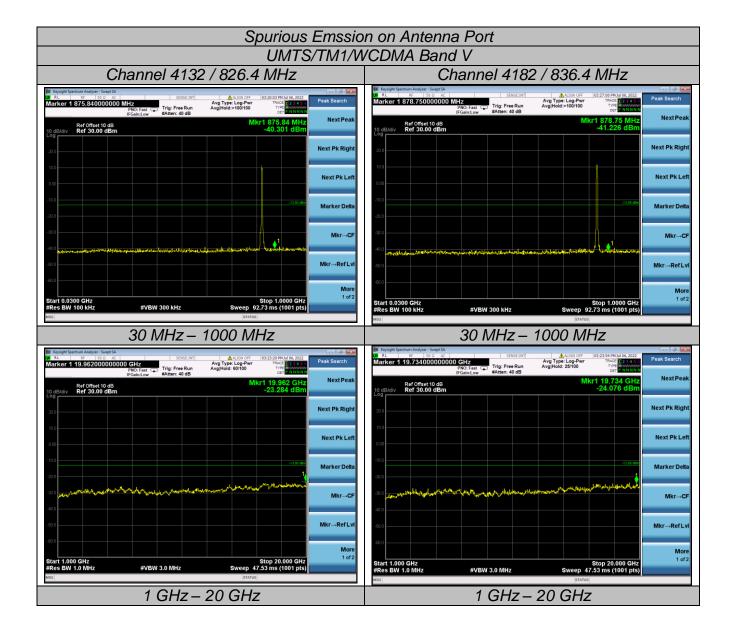
Test Mode	Channel	Frequency (MHz)	Spurious RF Conducted Emission (dBm)	Limits (dBm)	Verdict
UMTS/TM1/WCDMA	9262	1852.4	-37.622	-13dBm	
Band II	9400	1880.0	-37.751	-13dBm	PASS
Danu II	9538	1907.6	-37.863	-13dBm	
UMTS/TM1/WCDMA	4132	826.4	-23.284	-13dBm	
Band V	4182	836.4	-24.076	-13dBm	PASS
Dailu V	4233	846.6	-24.383	-13dBm	

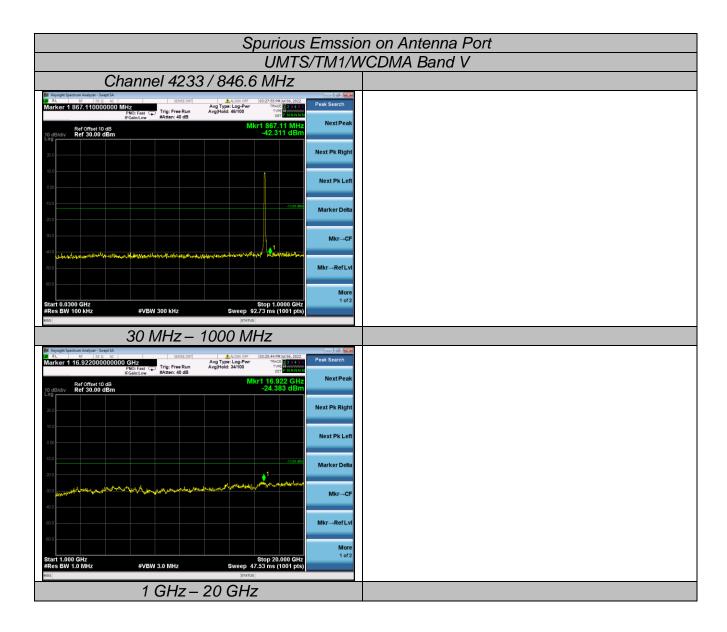
Remark:

- 1. Test results including cable loss;
- 2. Please refer to following plots:
- 3. We measured all modes and only recorded the worst case.









Radiated Measurement:

Remark:

We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.

Temperature	Temperature 24.5℃		53.7%
Test Engineer	Jenny Zeng	Configurations	WCDMA

For Less than 1 GHZ:

UMTS/TM1/ WCDMA Band II _ Low Channel

01011 0, 110117	TT OBITITION	<u> </u>	Onamor					
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
157.05	-45.71	3.78	3.00	8.47	-41.02	-13.00	-28.02	Н
237.17	-45.87	4.28	3.00	6.83	-43.32	-13.00	-30.32	Н
554.41	-41.87	4.04	3.00	8.69	-37.22	-13.00	-24.22	V
898.45	-43.43	4.41	3.00	6.82	-41.02	-13.00	-28.02	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
151.98	-45.94	3.73	3.00	8.61	-41.06	-13.00	-28.06	Н
239.38	-46.58	4.14	3.00	7.01	-43.71	-13.00	-30.71	Н
561.14	-42.80	4.00	3.00	8.62	-38.18	-13.00	-25.18	V
898.23	-44.52	4.46	3.00	7.04	-41.94	-13.00	-28.94	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
155.24	-47.37	3.80	3.00	8.48	-42.68	-13.00	-29.68	Н
234.81	-45.70	4.19	3.00	6.85	-43.04	-13.00	-30.04	Н
554.25	-44.51	3.99	3.00	8.47	-40.03	-13.00	-27.03	V
899.77	-45.20	4.12	3.00	6.92	-42.41	-13.00	-29.41	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
151.87	-46.02	3.89	3.00	8.60	-41.32	-13.00	-28.32	Н
239.18	-45.92	4.43	3.00	6.96	-43.39	-13.00	-30.39	Н
558.86	-41.94	4.00	3.00	8.53	-37.41	-13.00	-24.41	V
901.07	-43.57	4.32	3.00	7.12	-40.76	-13.00	-27.76	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
154.35	-46.11	3.84	3.00	8.71	-41.23	-13.00	-28.23	Н
241.67	-46.79	4.37	3.00	7.14	-44.02	-13.00	-31.02	Н
561.58	-42.93	3.75	3.00	8.64	-38.04	-13.00	-25.04	V
898.78	-44.42	4.47	3.00	7.17	-41.72	-13.00	-28.72	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
150.12	-47.56	3.67	3.00	8.68	-42.54	-13.00	-29.54	Н
241.40	-45.93	4.31	3.00	7.15	-43.10	-13.00	-30.10	Н
560.60	-44.42	4.04	3.00	8.46	-40.01	-13.00	-27.01	V
905.66	-45.03	4.46	3.00	6.79	-42.71	-13.00	-29.71	V

For More than 1 GHZ:

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
3,704.44	-43.83	5.26	3.00	9.88	-39.21	-13.00	-26.21	Н
5,557.18	-48.04	6.11	3.00	11.36	-42.79	-13.00	-29.79	Н
3,705.71	-47.22	5.26	3.00	9.88	-42.60	-13.00	-29.60	V
5,557.30	-50.93	6.11	3.00	11.36	-45.68	-13.00	-32.68	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
3704.80	-42.81	5.32	3.00	10.03	-38.10	-13.00	-25.10	Н
5557.20	-46.16	6.19	3.00	11.41	-40.94	-13.00	-27.94	Н
3704.80	-46.70	5.32	3.00	10.03	-41.99	-13.00	-28.99	V
5557.20	-51.61	6.19	3.00	11.41	-46.39	-13.00	-33.39	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
3760.00	-41.58	5.36	3.00	9.62	-37.32	-13.00	-24.32	Н
5640.00	-44.36	6.24	3.00	11.46	-39.14	-13.00	-26.14	Н
3760.00	-45.48	5.36	3.00	9.62	-41.22	-13.00	-28.22	V
5640.00	-47.07	6.24	3.00	11.46	-41.85	-13.00	-28.85	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
1652.80	-45.99	3.86	3.00	8.56	-41.29	-13.00	-28.29	Н
2479.20	-46.97	4.29	3.00	6.98	-44.28	-13.00	-31.28	Н
1652.80	-45.21	3.86	3.00	8.56	-40.51	-13.00	-27.51	V
2479.20	-48.67	4.29	3.00	6.98	-45.98	-13.00	-32.98	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
1672.80	-46.17	3.90	3.00	8.58	-41.49	-13.00	-28.49	Н
2509.20	-46.67	4.32	3.00	6.80	-44.19	-13.00	-31.19	Н
1672.80	-46.47	3.90	3.00	8.58	-41.79	-13.00	-28.79	V
2509.20	-49.51	4.32	3.00	6.80	-47.03	-13.00	-34.03	V

UMTS/TM1/ WCDMA Band V _ High Channel

<u> </u>		<u> </u>						
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1693.20	-44.25	3.91	3.00	9.06	-39.10	-13.00	-26.10	Н
2539.80	-45.27	4.32	3.00	6.65	-42.94	-13.00	-29.94	Н
1693.20	-46.09	3.91	3.00	9.06	-40.94	-13.00	-27.94	V
2539.80	-47.97	4.32	3.00	6.65	-45.64	-13.00	-32.64	V

Notes:

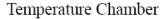
- 1.All channel bandwidth were tested, the report recorded the worst data.
- 2. EIRP=PMea(dBm)-Pcl(dB)+PAg(dB)+Ga(dBi)
- 3. ERP = EIRP 2.15dBi as EIRP by subtracting the gain of the dipole.
- 4. Margin = EIRP Limit
- 5. We measured all modes and only recorded the worst case.

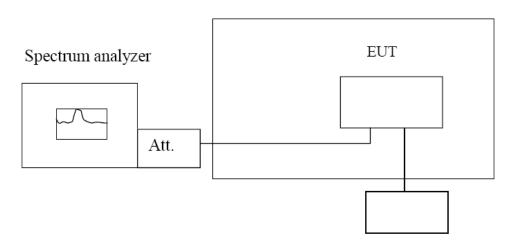
4.6 Frequency Stability under Temperature & Voltage Variations

LIMIT

FCC § 2.1055 (a), § 2.1055 (d), §22.355, §24.235.

TEST CONFIGURATION





Variable Power Supply

TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

Frequency Stability Under Temperature Variations:

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 CMW500 DIGITAL RADIO COMMUNICATION TESTER.

- 1. Measure the carrier frequency at room temperature.
- 2. Subject the EUT to overnight soak at -30℃.
- 3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on middle channel for LTE band 5, 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 $+50^{\circ}$ C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
- 5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 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 CMW500 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 $^{\circ}$ C increments from +50 $^{\circ}$ C to -30 $^{\circ}$ C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements
- 9. At all temperature levels hold the temperature to +/- 0.5 °C during the measurement procedure.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20 °C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change.

TEST RESULTS

Remark:

We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Jenny Zeng	Configurations	WCDMA

UMTS/TM1/WCDMA Band II						
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict	
DC 8.3V	25	-19	-0.010	±2.50	PASS	
DC 6.9V	25	-17	-0.009	±2.50	PASS	
DC 7.6V	25	16	0.009	±2.50	PASS	
DC 7.6V	-30	11	0.006	±2.50	PASS	
DC 7.6V	-20	2	0.001	±2.50	PASS	
DC 7.6V	-10	20	0.011	±2.50	PASS	
DC 7.6V	0	1	0.001	±2.50	PASS	
DC 7.6V	10	-6	-0.003	±2.50	PASS	
DC 7.6V	20	-7	-0.004	±2.50	PASS	
DC 7.6V	30	-10	-0.005	±2.50	PASS	
DC 7.6V	40	-9	-0.005	±2.50	PASS	
DC 7.6V	50	11	0.006	±2.50	PASS	

UMTS/TM1/WCDMA Band V					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
DC 8.3V	25	8	0.010	±2.50	PASS
DC 6.9V	25	1	0.001	±2.50	PASS
DC 7.6V	25	-10	-0.012	±2.50	PASS
DC 7.6V	-30	-17	-0.021	±2.50	PASS
DC 7.6V	-20	3	0.004	±2.50	PASS
DC 7.6V	-10	16	0.019	±2.50	PASS
DC 7.6V	0	-14	-0.017	±2.50	PASS
DC 7.6V	10	-14	-0.017	±2.50	PASS
DC 7.6V	20	0	0.000	±2.50	PASS
DC 7.6V	30	19	0.023	±2.50	PASS
DC 7.6V	40	-18	-0.022	±2.50	PASS
DC 7.6V	50	-20	-0.024	±2.50	PASS

5 TEST SETUP PHOTOS OF THE EUT

Reference to the Test Report: **GTS20211218008-1-14.**

6 I	EXTERNAL	AND	INTERNAL	PHOTOS	ΟF	THE	EU1	Γ
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Reference to the Test Report: GTS20211218008-1-14.
End of Report