

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE180406101

FCC REPORT

(WCDMA)

Applicant: PCD, LLC

Address of Applicant: 1500 Tradeport Drive, Suite A, ORLANDO, Florida, 32824.

United States

Equipment Under Test (EUT)

Product Name: MIFI

Model No.: J500

Trade mark: PCD

FCC ID: 2ALJJJ500

FCC CFR Title 47 Part 2

Applicable standards: FCC CFR Title 47 Part 22 Subpart H

FCC CFR Title 47 Part 24 Subpart E

Date of sample receipt: 13 Apr., 2018

Date of Test: 13 Apr., to 01 Jun., 2018

Date of report issued: 01 Jun., 2018

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2. Version

Version No.	Date	Description
00	01 Jun., 2018	Original

Tested by: Zora Lee Date: 01 Jun., 2018

Test Engineer

Reviewed by: Of Jun., 2018

Project Engineer



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4. Test Summary

Part 1.1307 Part 2.1093 Part 2.1046 Part 22.913 (a)(2)	Pass (Please refer to SAR Report)
Part 24.232 (c)	Pass
Part 24.232 (d)	Pass
Part 2.1047	Pass
Part 2.1049 Part 22.917(b) Part 24.238(b)	Pass
Part 2.1051 Part 22.917 (a) Part 24.238 (a)	Pass
Part 2.1053 Part 22.917 (a) Part 24.238 (a)	Pass
Part 22.917 (a) Part 24.238 (a)	Pass
Part 22.355 Part 24.235 Part 2.1055(a)(1)(b)	Pass
Part 22.355 Part 24.235 Part 2.1055(d)(2)	Pass
	Part 24.232 (d) Part 2.1047 Part 2.1049 Part 22.917(b) Part 24.238(b) Part 22.917 (a) Part 24.238 (a) Part 24.238 (a) Part 22.917 (a) Part 24.238 (a) Part 22.917 (a) Part 24.238 (a) Part 22.355 Part 24.235 Part 2.1055(a)(1)(b) Part 22.355 Part 24.235

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5. General Information

5.1 Client Information

Applicant:	PCD, LLC
Address:	1500 Tradeport Drive, Suite A, ORLANDO, Florida, 32824. United States
Manufacturer	Quality One Wireless LLC
Address:	1500 Tradeport Drive, Suite A, ORLANDO, Florida, 32824. United States

5.2 General Description of E.U.T.

Product Name:	MIFI
Model No.:	J500
Operation Frequency range:	WCDMA Band V: 826.4MHz-846.6MHz WCDMA Band II: 1852.4MHz-1907.6MHz
Modulation type:	UMTS: QPSK
Antenna type:	Internal Antenna
Antenna gain:	WCDMA Band V: 1 dBi WCDMA Band II: 1 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-1750mAh





Operation Frequency List:

WCDI	MA Band V	WCDMA Band II		
Channel Frequency (MHz)		Channel	Frequency (MHz)	
4132	4132 826.40		1852.40	
4133	826.60	9263	1852.60	
	••••			
4182	836.40	9399	1879.80	
4183	836.60	9400	1880.00	
4184	836.80	9401	1880.20	
•••		***		
4232	846.40	9537	1907.40	
4233	846.60	9538	1907.60	

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

	V	NCDMA Band V	1	WCDMA Band II		
Channel		Frequency(MHz)	Channel		Frequency(MHz)	
	Lowest channel	4132	826.40	Lowest channel	9262	1852.40
	Middle channel 4183		836.60	Middle channel	9400	1880.00
Г	Highest channel	4233	846.60	Highest channel	9538	1907.60

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5.3 Test modes

Operating Environment	Operating Environment:			
Temperature:	Normal: 15℃ ~ 35℃, Extreme: -30℃ ~ +50℃			
Humidity:	20 % ~ 75 % RH			
Atmospheric Pressure:	1008 mbar			
Voltage:	Nominal: 3.7Vdc, Extreme: Low 3.5 Vdc, High 4.2 Vdc			
Test mode:	Test mode:			
RMC mode	Keep the EUT communication with simulated station in RMC mode			
HSDPA	Keep the EUT communication with simulated station in HSDPA mode			
HSUPA	Keep the EUT communication with simulated station in HSUPA mode			

Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes with power adaptor, earphone and Data cable. Just the worst case position (H mode) shown in report.

5.4 Description of Support Units

Test Equipment	Manufacturer	Model No.	Serial No.	
Simulated Station	Anritsu	MT8820C	6201026545	

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)

5.6 Laboratory Facility

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

FCC - Registration No.: 727551

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
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5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.8 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2017	06-21-2018
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	03-16-2018	03-15-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Spectrum Analyzer	Agilent	N9020A	MY50510123	10-29-2017	10-28- 2018
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-07-2018	03-06-2019
Signal Generator	R&S	SMR20	1008100050	03-07-2018	03-06-2019
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	10-31-2017	10-30-2018
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	09-24-2017	09-23-2018
Simulated Station	Rohde & Schwarz	CMW500	140493	06-24-2017	06-23-2018



6. Test results

6.1 Conducted Output Power

	_		
Test Requirement:	FCC part 22.913(a)(2), FCC part 24.232(c)		
Test Method:	ANSI/TIA-603-D 2010		
Limit:	WCDMA Band V: 7W, WCDMA Band II: 2W		
Test setup:	System simulator ATT EUT		
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the simulated station. Transmitter output power was read off in dBm.		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		





Measurement Data:

Measurement Data:					
		Burst			
EUT Mode		4132	4183	4233	Limit(dBm)
		826.40MHz	836.60MHz	846.60MHz	
	Subtest 1	22.60	23.27	22.59	
LIMTO OFO LICODA	Subtest 2	22.11	22.90	22.12	
UMTS 850 HSDPA	Subtest 3	20.57	21.21	20.31	
	Subtest 4	20.51	21.05	21.51	
	Subtest 1	21.36	21.74	21.32	
	Subtest 2	22.09	22.97	22.15	38.45
UMTS 850 HSUPA	Subtest 3	20.50	20.96	20.27	
	Subtest 4	22.51	23.21	22.57	
	Subtest 5	21.91	23.05	22.41	
UMTS 850 RMC	12.2kbps	22.40	23.25	22.59	
UMTS 850 AMR	12.2kbps				
EUT Mode		Burst			
		9262	9400	9538	Limit(dBm)
		1852.40MHz	1880.00MHz	1907.60MHz	
	Subtest 1	24.89	25.55	25.81	
UMTS 1900 HSDPA	Subtest 2	24.26	24.89	25.42	
010113 1900 H3DFA	Subtest 3	23.11	23.74	23.96	
	Subtest 4	22.76	23.58	23.78	
UMTS 1900 HSUPA	Subtest 1	24.38	24.5	25.32	
	Subtest 2	24.55	24.82	25.74	33.00
	Subtest 3	23.05	23.64	23.82	
	Subtest 4	24.68	25.34	25.81	
	Subtest 5	23.75	24.34	24.75	
UMTS 1900 RMC	12.2kbps	24.68	25.6	25.92	
UMTS 1900 AMR	12.2kbps				



6.2 Occupy Bandwidth

Test Requirement:	FCC part 22.917(b), FCC part 24.238(b)
Test Method:	ANSI/TIA-603-D 2010
Test setup:	System simulator Splitter ATT EUT Spectrum Analyzer
Test Procedure:	 The EUT's output RF connector was connected with a short cable to the spectrum analyzer 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 Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed



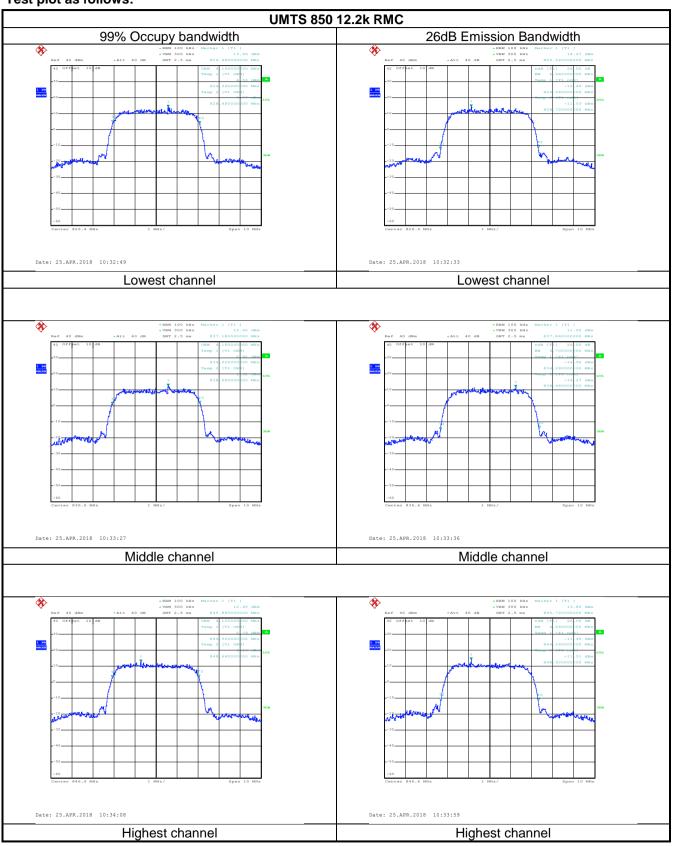


Measurement Data:

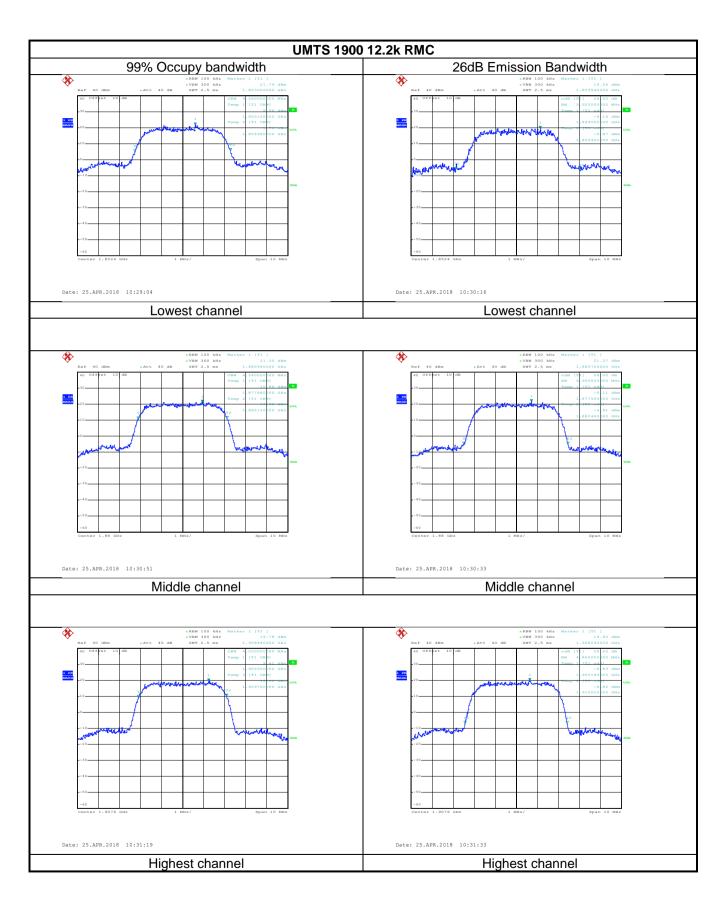
mododiomont Bata:				
EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
LIMTO OFO	4132	826.4	4140	4660
UMTS 850 12.2k RMC	4183	836.6	4160	4700
12.2K KWO	4233	846.6	4120	4660
LIMTO 4000	9262	1852.4	4560	5920
UMTS 1900 12.2k RMC	9400	1880.0	4240	4960
	9538	1907.6	4200	4860



Test plot as follows:









6.3 Peak-to-Average Power Ratio

Test Requirement:	FCC part 24.232(d)
Test Method	ANSI/TIA-603-D 2010
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test setup:	System simulator Splitter ATT EUT Spectrum Analyzer
Test Procedure:	 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. Set the CCDF option in spectrum analyzer, RBW ≥ OBW, Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level. Repeat step 1~3 at other frequency and modulations.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

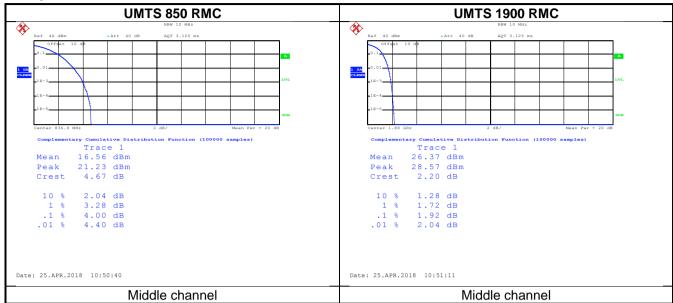
Measurement Data:

Modulation	Test channel	PAPR
UMTS 850 RMC	4183	4.00
UMTS 1900 RMC	9400	1.92





Test plots as below:





6.4 Modulation Characteristic

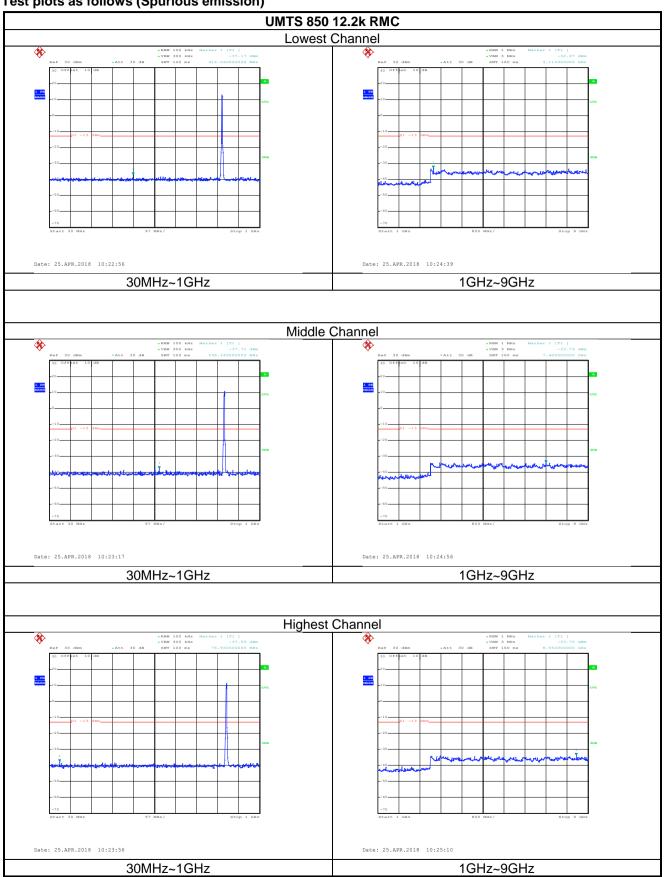
According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

6.5 Out of band emission at antenna terminals

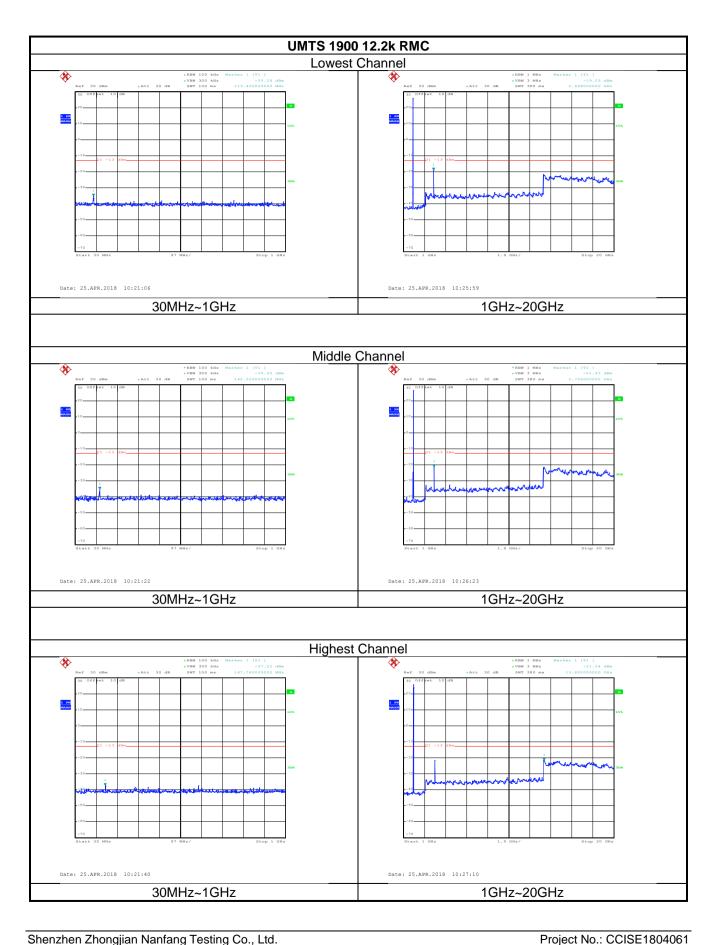
Test Requirement:	FCC part 22.917(a), FCC part 24.238(a)
Test Method:	ANSI/TIA-603-D 2010
Limit:	-13dBm
Test setup:	System simulator Spectrum Analyzer Spectrum Analyzer
Test Procedure:	 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz when below 1GHz, 1MHz when above 1 GHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. For the out of band: Set the RBW=100 kHz, VBW=300 kHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic. Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed



Test plots as follows (Spurious emission)



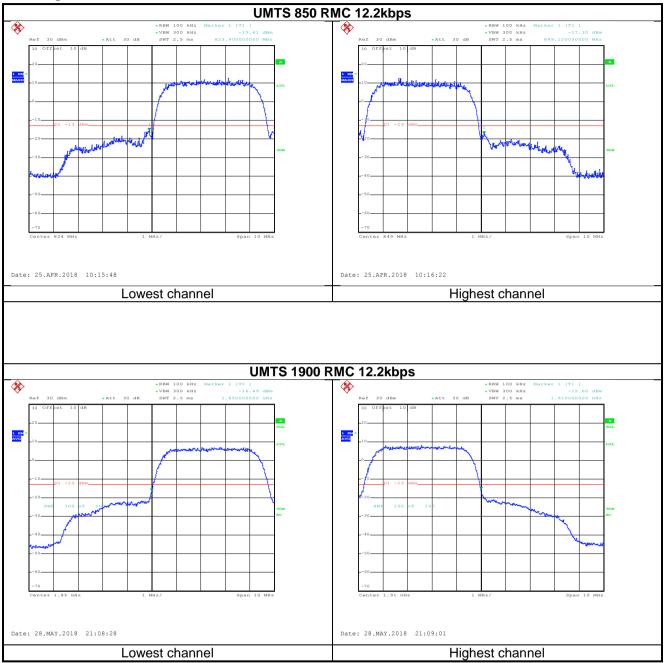








Band edge emission:





6.6 ERP, EIRP Measurement

6.6 ERP, EIRP Weasure	
Test Requirement:	FCC part 22.913(a)(2), FCC part 24.232(c)
Test Method:	ANSI/TIA-603-D 2010
Limit:	UMTS 850: 7W ERP, UMTS1900: 2W EIRP
Test setup:	Above 1GHz Test Receiver
Test Procedure:	 The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows: ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB) EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB) The worst case was relating to the conducted output power.
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test mode. Test results:	Passed
Test results.	า ผองธน





Measurement Data (worst case):

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
UMTS 850 12.2k	4183	Н	V	21.39	38.45	Door
RMC	4103	П	Н	26.65	30.43	Pass
EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
UMTS 1900	9262	Н	V	18.53	33.00	Pass
12.2k RMC	9202	П	Н	13.28	33.00	F455



6.7 Field strength of spurious radiation measurement

Test Requirement:	FCC part 22.917(a), FCC part 24.238(a)
Test Method:	ANSI/TIA-603-D 2010
Limit:	-13dBm
Test setup:	Below 1GHz
	Antenna Tower Test Receiver Angular Controlles Above 1GHz
	ABOVO TOTIL
	Hern Antenna Tower Antenna Tower
Test Procedure:	 The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed





Measurement Data (worst case):

	WCDI	MA BAND V 12.2k RN	IC	
		Lowest channel		
[Spurious Emission			
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
1652.80	Vertical	-50.80		
2479.20	V	-50.54	-13.00	Pass
3305.60	V	-51.72		
1652.80	Horizontal	-49.48		
2479.20	Н	-52.66	-13.00	Pass
3305.60	Н	-51.50		
·		Middle channel		
Francisco (MIII-)	Spurious	Emission	Limit (dDms)	Dooult
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
1673.20	Vertical	-49.53	-13.00	Pass
2509.80	V	-50.14		
3346.40	V	-51.26		
1673.20	Horizontal	-50.16		
2509.80	Н	-50.27	-13.00	Pass
3346.40	Н	-51.46		
		Highest channel		
Francisco (MIII-)	Spurious	Emission	Limit (dDms)	Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	
1693.20	Vertical	-49.75		
2539.80	V	-50.12	-13.00	Pass
3386.40	V	-51.46]	
1693.20	Horizontal	-49.69		
2539.80	Н	-50.35	-13.00	Pass
3386.40	Н	-51.23]	

Remark:

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





WCDMA Band II 12.2k RMC				
		Lowest channel		
Fraguency (MHz)	Spurious	Emission	Limit (dPm)	Result
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
3704.80	Vertical	-38.10	-13.00	Door
5557.20	V	-44.43	-13.00	Pass
3704.80	Horizontal	-35.05	42.00	Door
5557.20	Н	-44.18	-13.00	Pass
		Middle channel		
Spurious Emi		Emission	Lineit (dDne)	Daguit
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
3760.00	Vertical	-29.19	40.00	Dava
5640.00	V	-44.07	-13.00	Pass
3760.00	Horizontal	-29.21	42.00	Daga
5640.00	Н	-44.27	-13.00	Pass
·		Highest channel		
F (NALL=)	Spurious Emission		Lineit (dDae)	Danish
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result
3815.20	Vertical	-26.36	40.00	Dana
5722.80	V	-44.24	-13.00	Pass
3815.20	Horizontal	-25.60	40.00	Door
5722.80	Н	-44.01	-13.00	Pass

Remark.

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



6.8 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part 22.355, FCC Part 24.235, FCC Part 2.1055(a)(1)(b)
Test Method:	ANSI/TIA-6-3-D 2010
Limit:	±2.5 ppm
Test setup:	SS EUT Divider Temperature & Humidity Chamber
Test procedure:	 The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25 °C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to −30 °C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10 °C increased per stage until the highest temperature of +50 °C reached
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed





Measurement Data (the worst channel):

Reference Fred	uency: WCDMA BAN	ID V 12.2k RN	IC Middle channel	=4183 channel=8	36.6MHz
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm	Еппі (рріп)	result
3.70	-30	169	0.202008	±2.5	Pass
	-20	142	0.169735		
	-10	135	0.161367		
	0	122	0.145828		
	10	108	0.129094		
	20	160	0.191250		
	30	162	0.193641		
	40	138	0.164953		
	50	145	0.173321		
Reference Free	quency: WCDMA BAN	ND II 12.2k RI	MC Middle channel	=9400 channel=1	1880MHz
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm	Limit (ppm)	Kesuit
3.70	-30	190	0.101064	±2.5	Pass
	-20	152	0.080851		
	-10	143	0.076064		
	0	166	0.088298		
	10	145	0.077128		
	20	127	0.067553		
	30	148	0.078723		
	40	136	0.072340		
	50	152	0.080851		



6.9 Frequency stability V.S. Voltage measurement

Test Requirement: FCC Part 22.355, FCC Part 24.235, FCC Part 2.1055(d)(2) Test Method: ANSI/TIA-603-D 2010 Limit: ±2.5ppm				
Limit: ±2.5ppm				
Test setup: SS Divider Temperature & Humidity Power Source	Chamber			
to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the frequency resolution and recorded the frequency. 3. Reduce the input voltage to specify extreme voltage vari	to power the EUT and set the voltage to rated voltage.2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.			
Test Instruments: Refer to section 5.8 for details				
Test mode: Refer to section 5.3 for details				
Test results: Passed				





Measurement Data (the worst channel):

requency: Own 5 65	0 12.2K RIVIC I	/liddle channel=41	83 channel=836.6	SMHz
Power supplied (Vdc)	Frequency error		Limit (mmm)	Dooult
	Hz	ppm	Limit (ppm)	Result
4.25	84	0.100406	±2.5	Pass
3.70	90	0.107578		
3.15	63	0.075305		
requency: UMTS 19	00 12.2k RMC	Middle channel=9	400 channel=1880	OMHz
Power supplied (Vdc)	Frequency error		Limit (nnm)	Dogult
	Hz	ppm	Limit (ppm)	Result
4.25	78	0.041489	±2.5	Pass
3.70	81	0.043085		
3.15	69	0.036702		
	Power supplied (Vdc) 4.25 3.70 3.15 requency: UMTS 19 Power supplied (Vdc) 4.25 3.70	Power supplied (Vdc)	Power supplied (Vdc) Frequency error 4.25 84 0.100406 3.70 90 0.107578 3.15 63 0.075305 requency: UMTS 1900 12.2k RMC Middle channel=9 Power supplied (Vdc) Frequency error Hz ppm 4.25 78 0.041489 3.70 81 0.043085	(Vdc) Hz ppm Limit (ppm) 4.25 84 0.100406 ±2.5 3.70 90 0.107578 ±2.5 3.15 63 0.075305 ** requency: UMTS 1900 12.2k RMC Middle channel=9400 channel=1880 Power supplied (Vdc) Frequency error Limit (ppm) 4.25 78 0.041489 3.70 81 0.043085 ±2.5