FCC Test Report

FCC ID: 2AD83POD-3

Product Name:	Pod 3 GPS Tracker and Activity Monitor
Trademark:	N/A
Model Name:	POD-003
Prepared For:	Pod Trackers Pty Ltd.
Address:	Lvl 9, 61 Lavender St., Milsons Point NSW 2061, Australia
Prepared By:	Shenzhen BCTC Technology Co., Ltd.
Address:	NO.101, Yousong Road, Longhua New District, Shenzhen, Guangdong, P.R.China
Test Date:	Feb. 15 - Mar. 03, 2017
Date of Report:	Mar. 03, 2017
Report No.:	BCTC-FY170200108-2E

Test procedure

Shenzhen BCTC Technology Co., Ltd.

VERIFICATION OF COMPLIANCE

Applicant's name:	Pod Trackers Pty Ltd.
Address:	Lvl 9, 61 Lavender St., Milsons Point NSW 2061, Australia
Manufacture's Name:	Kaifa Technology Co., Ltd.
Address:	7006 Caitain Rd., Futian Distric, Shenzhen, China
Product description	
Product name:	Pod 3 GPS Tracker and Activity Monitor
Trademark:	N/A
Model Name:	POD-003
	FCC CFR Title 47 Part 2: 2015 FCC CFR Title 47 Part22 Subpart H: 2015

ANSI/ TIA/ EIA-603-D-2010

FCC CFR Title 47 Part24 Subpart E: 2015

FCC KDB 971168 D01 Power Meas. License Digital Systems

v02v02

This device described above has been tested by BCTC, and the test results show that the equipment under test (EUT) is in compliance with the requirements. And it is applicable only to the tested sample identified in the report.

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Test Result			: Pass
	Testing Engineer	:	Frie Yang
		•	Eric Yang
	Reviewer Supervisor	:	Fade Jang
			Jade Yang
	Approved & Authorized Manager	:	BCT Sand PPROVED S
			Carson Zhang

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1.TEST SUMMARY

Test Items	Test Requirement	Result	
DE European (CAD)	Part 1.1307	Passed*	
RF Exposure (SAR)	Part 2.1093	(Please refer to SAR Report)	
Conducted RF Output Power	2.1046	PASS	
Peak to Average Radio	2.1055,22.355 24.235,27.54	PASS	
	2.1049,		
99% & -26 dB Occupied Bandwidth	22.917	PASS	
	24.238,		
	2.1055,		
Frequency Stability	22.355	PASS	
	24.235,		
	2.1051,2.1057		
Conducted Out of Band Emissions	22.917,	PASS	
	24.238		
	2.1051,2.1057		
Band Edge	22.917,	PASS	
	24.238		
Transportition Dadicted Devices (FIDD/FDD)	22.913,	DACC	
Transmitter Radiated Power (EIPR/ERP)	24.232	PASS	
	2.1053,2.1057		
Radiated Out of Band Emissions	22.917,	PASS	
	24.238		



2.GENERAL PRODUCT INFORMATION

2.1. Description of Device (EUT)

Product Name:	Pod 3 GPS Tracker and Activity Monitor				
Trademark	N/A				
Model No.:	POD-003				
Model Difference	N/A				
Operation Frequency:	Bluetooth:2402~2480MHz WIFI:2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40)) GSM 850MHz: Tx: 824.20 - 848.80MHz (at intervals of 200kHz); Rx: 869.20 - 893.80MHz (at intervals of 200kHz) GSM 1900MHz: Tx: 1850.20 - 1909.80MHz (at intervals of 200kHz); Rx: 1930.20 - 1989.80MHz (at intervals of 200kHz) WCDMA Band II: TX: 1852.4MHz - 1907.60MHz, RX: 1932.4MHz - 1987.60MHz WCDMA Band V: Tx: 826.40 - 846.60MHz (at intervals of 200kHz); Rx: 871.40 - 891.60MHz (at intervals of 200kHz)				
Channel numbers:	Bluetooth:40 Channels WIFI:11 Channel for 802.11b/g/n(HT20), 9 Channel for 802.11n(HT40)				
Channel separation:	Bluetooth:1M WIFI:5M				
Modulation technology:	Bluetooth: GFSK WIFI:DBPSK/ DQPSK/CCK/BPSK/ QPSK/ 16QAM/ 64QAM GSM/GPRS/EGPRS Mode with GMSK Modulation WCDMA Mode with BPSK Modulation HSDPA Mode with QPSK, 16QAM Modulation HSUPA Mode with QPSK, 16QAM Modulation				
Antenna Type:	Internal Antenna				
Antenna gain:	1.0dBi (BT &WIFI) 1.8dBi (GSM&WCDMA)				
Power supply:	DC 3.7V from battery				
GPRS Class:	12				
EGPRS Class:	12				

2.2. Product Function

Refer to Technical Construction Form and User Manual.

Shenzhen BCTC Technology Co., Ltd.

2.3. Independent Operation Modes

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes								
Band		Radiated Conducted						
GSM 850	n GSM link	n	GSM link					
	n EGPRS 8 li	nk n	EGPRS 8 link					
PCS 1900	n GSM link	n	GSM link					
	n EGPRS 8 li	nk n	EGPRS 8 link					
WCDMA Band II	n RMC 12.2K	bps link n	RMC 12.2Kbps link					
WCDMA Band V	n RMC 12.2K	bps link n	RMC 12.2Kbps link					

Note: The maximum power levels are GSM mode for GMSK link, EGPRS multi-slot class 8 mode for 8PSK link, RMC12.2Kbps mode for WCDMA Band II and V. only these modes were used for all tests.

The conducted average power tables are as follows:

Conducted Average Power (dBm)							
Band	GSM850 PCS1900						
Channel	128	128 190 251			661	810	
Frequency (MHz)	824.20	836.60	848.80	1850.20	1880.00	1909.80	
	32.25	32.28	32.50	29.78	29.62	29.69	



3. TEST SITES

3.1. Test Facilities

Site Description

Name of Firm : Shenzhen BCTC Technology Co., Ltd.

Site Location NO.101, Yousong Road, Longhua New District,

Shenzhen, Guangdong, P.R.China

Lab Qualifications : Certificated by Industry Canada

Registration No.: 12655A

Date of registration: January 19, 2015

Certificated by FCC, USA Registration No.: 187086

Date of registration: November 28, 2014

Certificated by CNAS China Registration No.: CNAS L6046

Date of registration: February 3, 2013

3.1.1. Measurement Uncertainty

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately $\mathbf{95}$ %.

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

3.2. List of Test and Measurement Instruments

3.2.1. For conducted emission at the mains terminals test

Shenzhen BCTC Technology Co., Ltd.

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESCI	1166.5950K03 -101165-ha	2016.08.27	2017.08.26
2	LISN	SCHWARZBECK	NSLK8127	8127739	2016.08.27	2017.08.26
3	LISN	R&S	NSLK8126	8126487	2016.08.27	2017.08.26
4	RF cables	R&S	R204	R20X	2016.08.27	2017.08.26
5	Attenuator	R&S	ESH3-Z2	143206	2016.08.27	2017.08.26

3.2.2. For radiated test

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4407B	MY45108040	2016.08.27	2017.08.26
2	Test Receiver (9kHz-7GHz)	R&S	ESPI	101318	2016.08.27	2017.08.26
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB 9168	VULB91 68-438	2016.08.27	2017.08.26
4	Horn Antenna (1GHz-18GHz)	SCHWARZBECK	BBHA9120D	1201	2016.09.03	2017.09.03
5	Horn Antenna (14GHz-40GHz)	SCHWARZBECK	BBHA 9170	9170-181	2016.09.03	2017.09.03
6	Amplifier (9KHz-6GHz)	SCHWARZBECK	BBV9744	9744-0037	2016.08.27	2017.08.26
7	Amplifier (1GHz-18GHz)	SCHWARZBECK	BBV9718	9718-309	2016.08.27	2017.08.26
8	Amplifier (18GHz-40GHz)	SCHWARZBECK	BBV 9721	9721-205	2016.08.27	2017.08.26
9	Loop Antenna (9KHz-30MHz)	SCHWARZBECK	FMZB1519B	00014	2016.09.03	2017.09.03
10	RF cables1 (9kHz-1GHz)	R&S	R203	R20X	2016.08.27	2017.08.26
11	RF cables2 (1GHz-40GHz)	R&S	R204	R21X	2016.08.27	2017.08.26
12	Antenna connector	Florida RF Labs	N/A	RF 01#	2016.08.27	2017.08.26
13	Power Metter	ANRITSU	ML2487A	6K00001568	2016.08.27	2017.08.26
14	Power Sensor (AV)	ANRITSU	ML2491A	030989	2016.08.27	2017.08.26
15	Signal Analyzer 9kHz-26.5GHz	Agilent	N9010A	MY48030494	2016.08.27	2017.08.26
16	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	2016.08.27	2017.08.26
17	D.C. Power Supply	LongWei	PS-305D	010964729	2016.08.27	2017.08.26
18	Bilog Antenna	TESEQ	CBL6111D	31217	2016.08.27	2017.08.26





19	System Simulator	Agilent	E5515C	GB43130252	2016.08.27	2017.08.26
20	High Pass filter	KANGMAI	WHKX1.0/1.5 G-10SS	40	2016.08.27	2017.08.26
21	Filter	COM-MW	ZBSF-C836.5- 25-X	BCTC042	2016.08.27	2017.08.26
22	Filter	COM-MW	ZBSF-C1747.5 -75-X2	BCTC045	2016.08.27	2017.08.26
23	Filter	COM-MW	ZBSF-C1880-6 0-X2	BCTC047	2016.08.27	2017.08.26
24	Splitter	Agilent	11435B	1125162	2016.08.27	2017.08.26
RF C	ONDUCTED TES	Т				
1	System Simulator	Agilent	E5515C	GB43130252	2016.08.27	2017.08.26
2	Spectrum Analyzer	Agilent	E4407B	MY45108040	2016.08.27	2017.08.26
3	DC Power Supply	LongWei	PS-305D	010965682	2016.08.27	2017.08.26
4	Constant temperature and humidity box	GF	GTH-800-40-2 P	MAA9906-012	2016.08.27	2017.08.26
5	Universal radio communication tester	R&S	CMU200	115295	2016.08.27	2017.08.26



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4. TEST SET-UP

4.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

4.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators

EUT

(EUT: Pod 3 GPS Tracker and Activity Monitor)

4.3. Test Environment:

Ambient conditions in the test laboratory:

Items	Actual
Temperature (°C)	21~23
Humidity (%RH)	50~65



5. EMISSION TEST RESULTS

5.1. Conducted RF Output Power

5.1.1. Limit

According to FCC section 2.1046(a), FCC part22.913(a) and FCC part 24.232(b), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

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5.1.2. Test Setup

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power.

5.1.3. Test Result

Here the lowest, middle and highest channels are selected to perform testing to verify the conducted RF output power of the EUT.

Measurement data



The conducted power tables are as follows:

Average Conducted Power (dBm)								
Band	GSM850			PCS1900				
Channel	128	190	251	512	661	810		
Frequency (MHz)	824.20	836.60	848.80	1850.20	1880.00	1909.80		
GSM (GMSK, 1 TX slot)	32.25	32.28	32.50	29.78	29.62	29.69		
GPRS (GMSK, 1 TX slot)	32.26	32.27	32.47	28.76	28.21	28.67		
GPRS (GMSK, 2 TX slot)	31.41	31.52	31.72	28.00	27.45	27.92		
GPRS (GMSK, 3 TX slot)	29.35	29.54	29.74	26.34	26.48	26.54		
GPRS (GMSK, 4 TX slot)	27.46	27.43	27.63	24.35	24.37	24.83		
EGPRS(GMSK, 1 TX slot)	32.22	32.23	32.19	29.30	29.17	29.33		
EGPRS(GMSK, 2 TX slot)	31.49	31.50	31.70	27.38	27.43	27.40		
EGPRS(GMSK, 3 TX slot)	29.50	29.49	29.69	26.39	26.43	26.49		
EGPRS(GMSK, 4 TX slot)	27.47	27.44	27.64	24.46	24.38	24.44		
EGPRS (8PSK, 1 TX slot)	26.39	26.86	26.44	24.64	24.63	24.99		
EGPRS (8PSK, 2 TX slot)	25.44	25.58	25.50	23.47	23.41	23.73		
EGPRS (8PSK, 3 TX slot)	23.52	23.44	23.62	23.43	22.37	22.34		
EGPRS (8PSK, 4 TX slot)	22.49	22.36	22.58	21.33	21.11	21.43		

Average Conducted Power								
Band	W	CDMA Band	I II.	WCDMA Band V.				
Frequency	1852.4	1880.0	1907.6	826.4	836.6	846.6		
RMC 12.2Kbps	24.14	24.66	24.27	22.80	22.69	22.67		
RMC 64kbps	24.10	24.60	24.23	22.74	22.57	22.59		
RMC 144kbps	24.11	24.62	24.20	22.68	22.46	22.51		
RMC 384kbps	24.08	24.58	24.18	22.62	22.35	22.42		
HSDPA Subtest-1	24.12	24.65	24.25	22.43	22.35	22.40		
HSDPA Subtest-2	24.11	24.63	24.24	22.37	22.34	22.40		
HSDPA Subtest-3	24.09	24.62	24.22	22.32	22.30	22.32		
HSDPA Subtest-4	24.08	24.60	24.20	22.29	22.21	22.34		
HSUPA Subtest-1	24.13	24.64	24.26	22.27	22.30	22.28		
HSUPA Subtest-2	24.10	24.63	24.24	22.24	22.19	22.30		
HSUPA Subtest-3	24.08	24.62	24.23	22.37	22.29	22.34		
HSUPA Subtest-4	24.14	24.66	24.27	22.19	22.22	22.30		

Note: Measurement Uncertainty: ±2.6 dB.



5.2. -26dB and 99% Occupied Bandwidth

5.2.1. Limit

According to FCC section 2.1049 and FCC part22.913(a) and FCC part24.232(b), the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth,

5.2.2. Test Setup

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power.



5.2.3. Test Result

Measurement Data

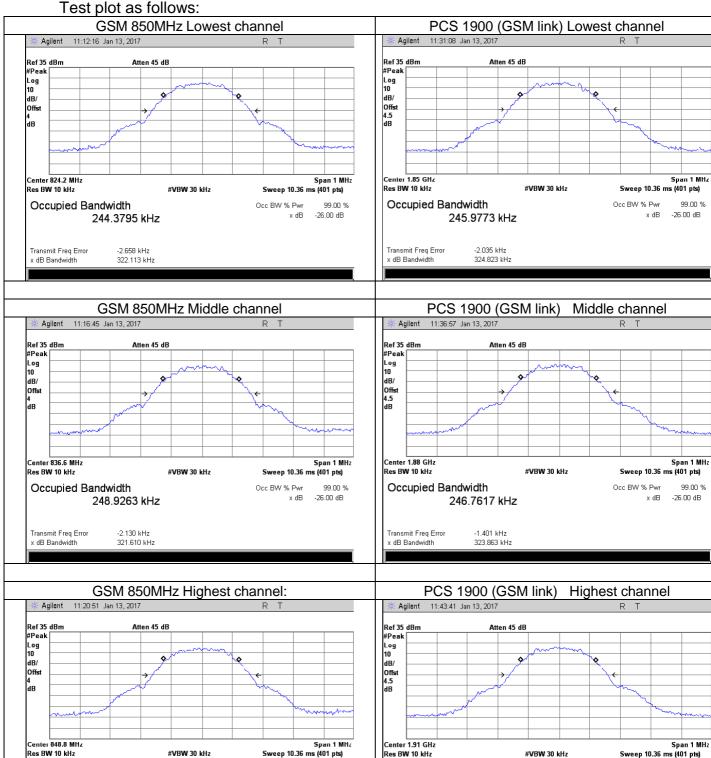
EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
	128	824.20	244.380	322.113
GSM 850 (GSM link)	190	836.60	248.926	321.610
(CONTINUE)	251	848.80	246.984	321.130
	128	824.20	243.435	320.829
GSM 850 (GPRS 8 link)	190	836.60	244.238	318.408
(Cr res o mine)	251	848.80	245.565	318.404
	128	824.20	248.632	324.102
GSM 850 (EGPRS 8 link)	190	836.60	241.858	320.675
(LOT TO 0 mint)	251	848.80	249.164	318.182
	512	1850.20	245.977	324.823
PCS 1900 (GSM link)	661	1880.00	246.762	323.863
(CONT IIIIK)	810	1909.80	244.749	319.911
	512	1850.20	246.639	324.536
PCS 1900 (GPRS 8 link)	661	1880.00	245.427	319.614
	810	1909.80	245.843	317.283
500 4000	512	1850.20	246.626	322.447
PCS 1900 (EGPRS 8 link)	661	1880.00	247.350	322.804
(LOT ITO O IIIII)	810	1909.80	247.192	320.172
WCDMA Band V	4132	826.4	4163.7	4695.0
(RMC 12.2Kbps	4175	836.0	4171.5	4696.0
link)	4233	846.6	4172.5	4697.0
WCDMA Band II	9262	1852.4	4164.9	4712.0
(RMC 12.2Kbps	9400	1880.0	4164.2	4705.0
link)	9538	1907.6	4161.5	4714.0

Note: Measurement Uncertainty: ±20Hz.



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Test plot as follows:



Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

246.9839 kHz

-893.886 Hz

321 130 kHz

Occ BW % Pwr

x dB

99.00 %

-26.00 dB

Occupied Bandwidth

Transmit Freg Error

dB Bandwidtl

244.7491 kHz

-1.550 kHz

319.911 kHz

Occ BW % Pwr

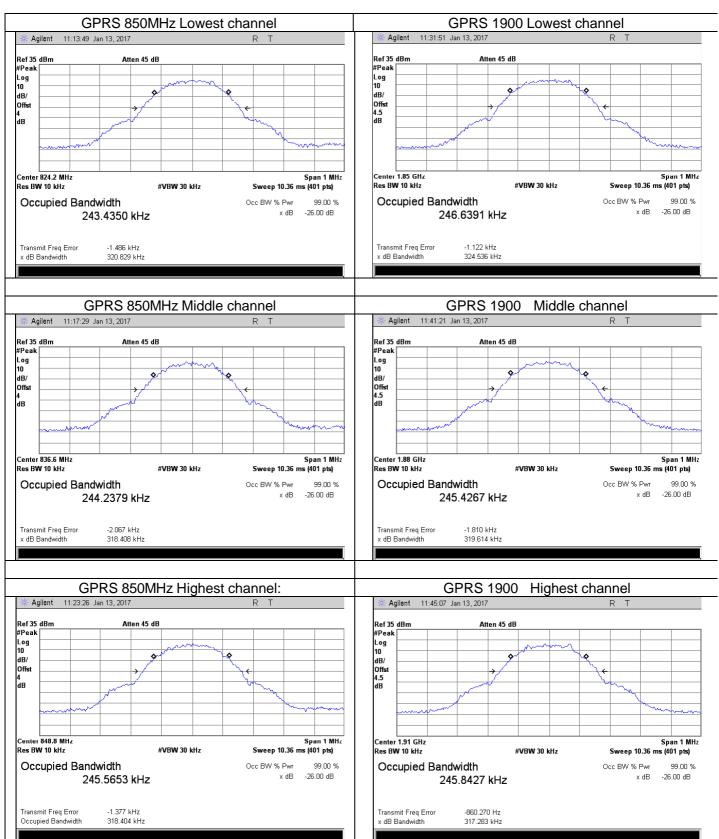
x dB

99.00 %

-26.00 dB

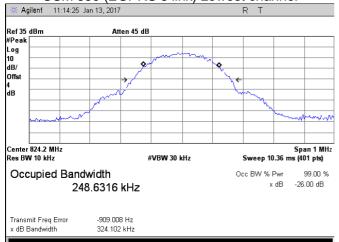


Report No.: BCTC-FY170200108-2E

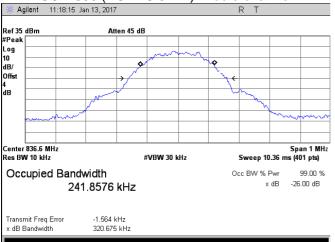


GSM 850 (EGPRS 8 link) Lowest channel

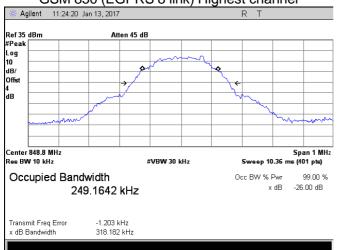
Shenzhen BCTC Technology Co., Ltd.



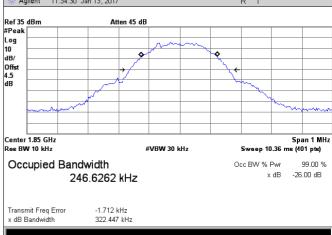
GSM 850 (EGPRS 8 link) Middle channel



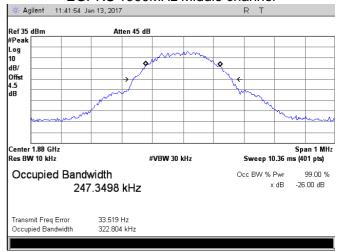
GSM 850 (EGPRS 8 link) Highest channel



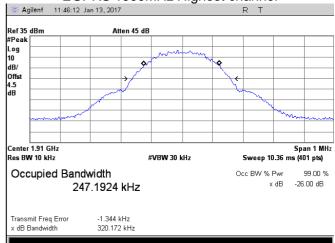
PCS 1900 (EGPRS 8 link) Lowest channel

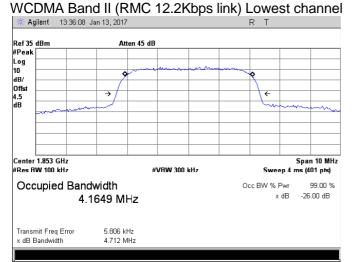


EGPRS 1900MHz Middle channel

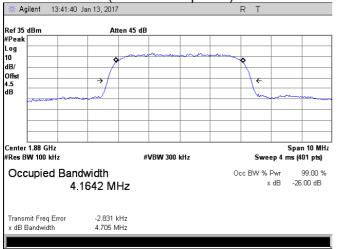


EGPRS 1900MHz Highest channel

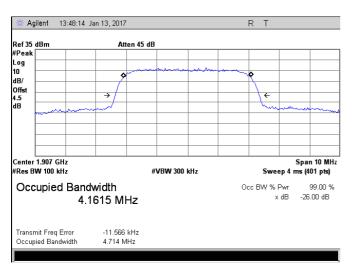




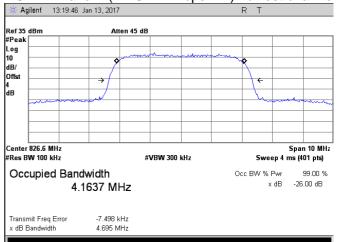
WCDMA Band II (RMC 12.2Kbps link) Middle channel



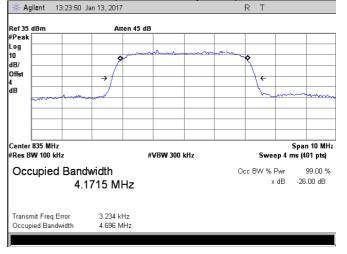
WCDMA Band II (RMC 12.2Kbps link) Highest channel



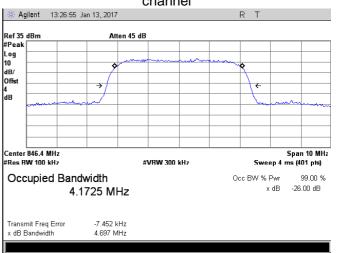
WCDMA Band V (RMC 12.2Kbps link) Lowest channel



WCDMA Band V (RMC 12.2Kbps link) Middle channel



WCDMA Band V (RMC 12.2Kbps link) Highest channel



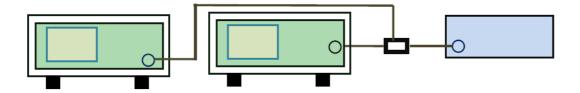


5.3. Peak to Average Radio

5.3.1. Limit

According to FCC section 27.50(d)(5), the peak to average ratio(PAR) of the transmission may not exceed 13dB.

5.3.2. Test Setup



5.3.3. Test Procedure

According with KDB 971168 v02r02

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

5.3.4. Test Result



Measurement data as follows:

Band	Channel	Conducted power(dBm)		Peak-Average	
		Peak	Average	Ratio(PAR)	
	Low	30.92	29.78	1.14	
PCS1900	Middle	30.79	29.62	1.17	
	High	30.92	29.69	1.23	
	Low	30.87	29.30	1.57	
EGPRS 1900	Middle	31.01	29.17	1.84	
	High	30.96	29.33	1.63	
	Low	26.46	24.14	2.32	
WCDMA Band II	Middle	27.07	24.66	2.41	
	High	26.64	24.27	2.37	

Note: Measurement Uncertainty: ±0.2 dB.



5.4. Frequency Stability

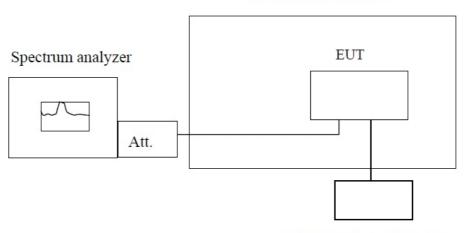
5.4.1. Limit

According to FCC section 22.355 and FCC section 24.235, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

5.4.2. Test Setup

Temperature Chamber



Variable Power Supply

Note: Measurement setup for testing on Antenna connector

The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber.

The EUT is commanded by the System Simulator (SS) to operate at the maximum output power

5.4.3. Test Result

The nominal, highest and lowest extreme voltages are separately 3.8VDC, 4.25VDC and 3.6VDC which are specified by the applicant; the normal temperature here used is 25° C. The frequency deviation limit of 850MHz band is ± 2.5 ppm, and 1900MHz is ± 1 ppm



	Test Conditions Frequency Deviation					
Band	Power(Vdc)	Temperature (°C)	Frequency Error(Hz)	ppm	Limit	Result
	3.7	-30	66	0.0789		
	3.7	-20	41	0.0490		
	3.7	-10	43	0.0514		
0004050	3.7	0	33	0.0394		
GSM850	3.7	10	24	0.0287	12.5	
(GSM link) Middle	3.7	20	26	0.0311		PASS
channel	3.7	30	27	0.0323	±2.5	PASS
=836.6MHz	3.7	40	43	0.0514		
=630.6101112	3.7	50	28	0.0335		
	4.25	25	36	0.0430		
	3.70	25	25	0.0299		
	3.40	25	27	0.0323		
	3.7	-30	53	0.0634	±2.5	PASS
	3.7	-20	34	0.0406		
	3.7	-10	26	0.0311		
	3.7	0	33	0.0394		
GPRS850	3.7	10	24	0.0287		
(Middle	3.7	20	21	0.0251		
channel	3.7	30	28	0.0335		
=836.6MHz	3.7	40	35	0.0418		
	3.7	50	37	0.0442		
	4.25	25	29	0.0347		
	3.70	25	25	0.0299		
	3.40	25	31	0.0371		
	3.7	-30	51	0.0610		
	3.7	-20	32	0.0383		
	3.7	-10	26	0.0311		
0.014050	3.7	0	19	0.0227		
GSM850	3.7	10	27	0.0323		
(EGPRS 8	3.7	20	43	0.0514	10.5	DACC
link) Middle	3.7	30	32	0.0383	±2.5	PASS
channel =836.6MHz	3.7	40	28	0.0335		
=030.010172	3.7	50	36	0.0430		
	4.25	25	29	0.0347		
	3.70	25	31	0.0371		
	3.40	25	27	0.0323		



	Test Conditions			ncy Deviation		
Band	Power(Vdc)	Temperature(℃)	Frequency Error(Hz)	ppm	Limit	Result
	3.7	-30	72	0.0383		
	3.7	-20	51	0.0271		
	3.7	-10	38	0.0202		
	3.7	0	41	0.0218		
PCS1900	3.7	10	35	0.0186		
(GSM link)	3.7	20	40	0.0213	. 4	5400
Middle	3.7	30	28	0.0149	±1	PASS
channel	3.7	40	34	0.0181		
=1880MHz	3.7	50	41	0.0218		
	4.25	25	33	0.0176		
	3.70	25	27	0.0144		
	3.40	25	29	0.0154		
	3.7	-30	68	0.0362		PASS
	3.7	-20	42	0.0223	±1	
	3.7	-10	21	0.0112		
	3.7	0	35	0.0186		
GPRS1900	3.7	10	37	0.0197		
Middle	3.7	20	42	0.0223		
channel	3.7	30	36	0.0191		
=1880MHz	3.7	40	28	0.0149		
	3.7	50	41	0.0218		
	4.25	25	27	0.0144		
	3.70	25	26	0.0138		
	3.40	25	28	0.0149		
	3.7	-30	62	0.0330		
	3.7	-20	36	0.0191		
	3.7	-10	42	0.0223		
D004000	3.7	0	31	0.0165		
PCS1900	3.7	10	34	0.0181		
(EGPRS 8	3.7	20	29	0.0154	14	DACC
link) Middle channel	3.7	30	46	0.0245	±1	PASS
=1880MHz	3.7	40	28	0.0149		
_ 1000IVII 12	3.7	50	33	0.0176		
	4.25	25	29	0.0154		
	3.70	25	42	0.0223		
	3.40	25	39	0.0207		



Test Conditions		Frequen	cy Deviation)		
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	Result
	3.7	-30	85	0.0452		
	3.7	-20	36	0.0191		
	3.7	-10	43	0.0229		
WODAA	3.7	0	61	0.0324		
WCDMA	3.7	10	48	0.0255		
Band II	3.7	20	63	0.0335		DAGG
Middle	3.7	30	78	0.0415	±1	PASS
channel=188 0.0MHz	3.7	40	49	0.0261		
U.UIVITIZ	3.7	50	27	0.0144		
	4.25	25	42	0.0223		
	3.70	25	38	0.0202		
	3.40	25	41	0.0218		
	3.7	-30	75	0.0898		
	3.7	-20	34	0.0407		
	3.7	-10	38	0.0455		
MODMA	3.7	0	46	0.0551		
WCDMA	3.7	10	29	0.0347		
Band V Middle	3.7	20	37	0.0443	±2.5	PASS
channel=835.	3.7	30	42	0.0503	12.5	PASS
0MHz	3.7	40	26	0.0311		
OIVII 12	3.7	50	31	0.0371		
	4.25	25	29	0.0347		
	3.70	25	35	0.0419		
	3.40	25	42	0.0503		

Note: Measurement Uncertainty: ±20Hz.



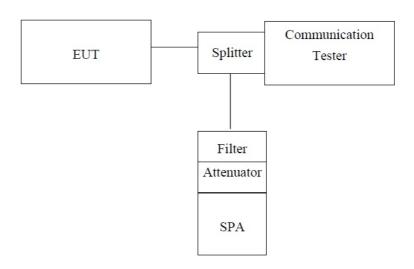
5.5. Conducted Spurious Emissions

Shenzhen BCTC Technology Co., Ltd.

5.5.1. Limit

According to FCC section 22.917(a) and FCC section 24.238(a), 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. This calculated to be -13dBm.

5.5.2. Test Setup



Note: Measurement setup for testing on Antenna connector

5.5.3. Measurement 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 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

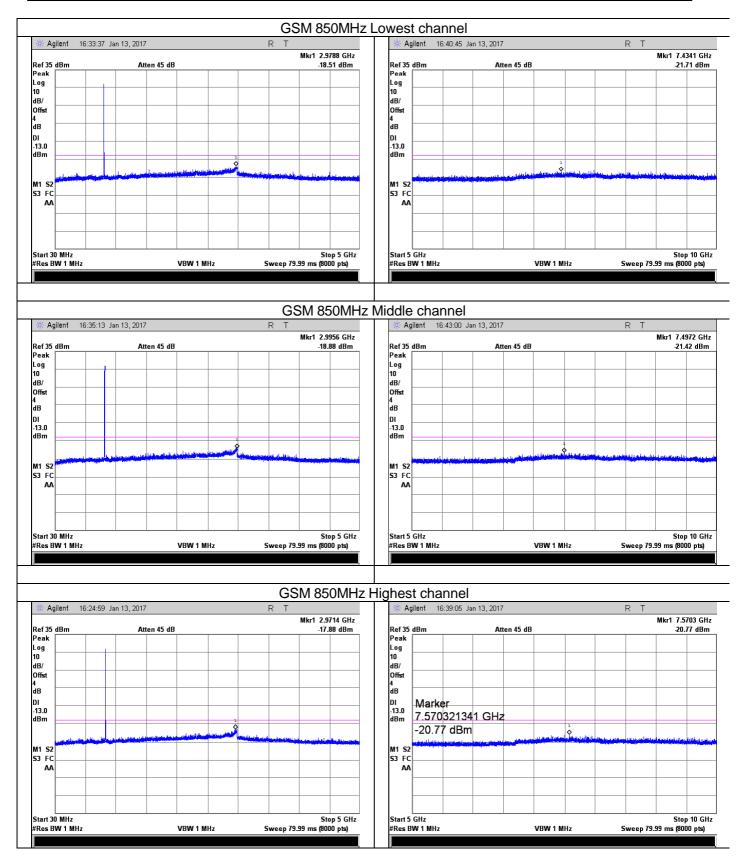
For the out of band: Set the RBW, VBW = 100KHz, Start=30MHz, Stop= 10th harmonic.

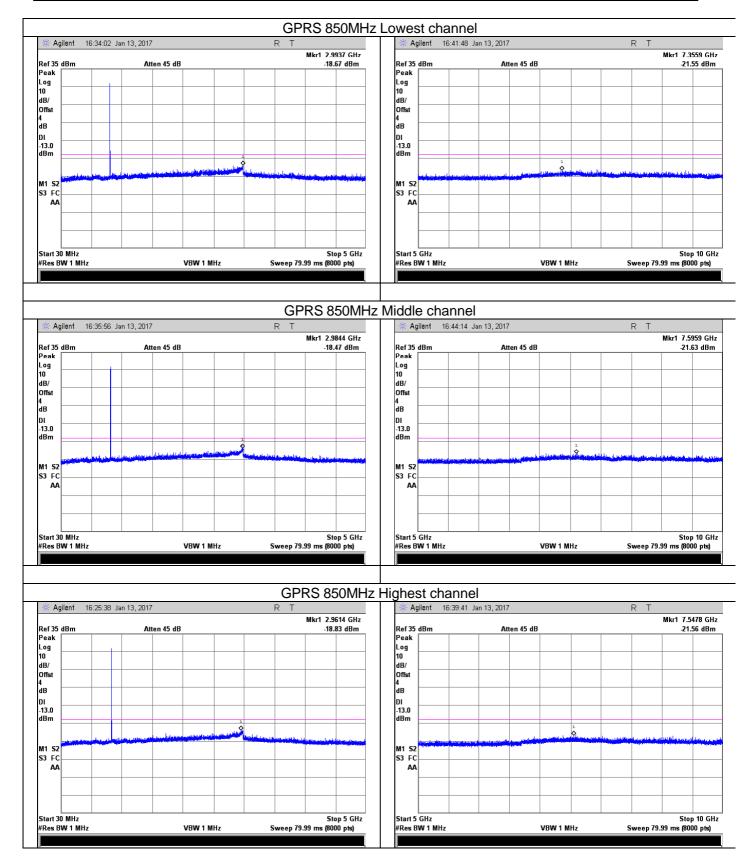
Limit = -13dBm

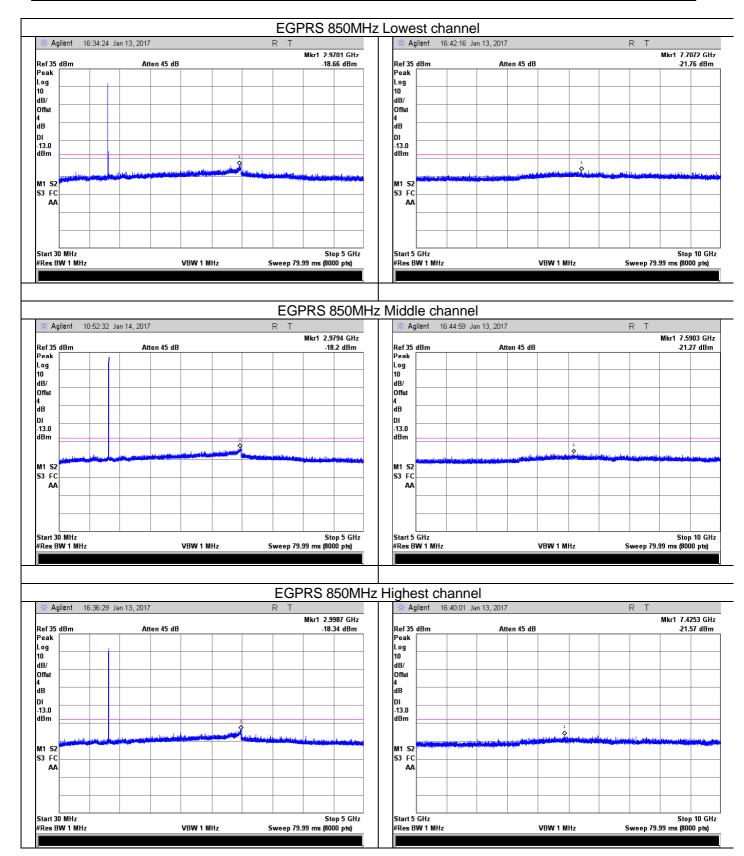
5.5.4. Test Result

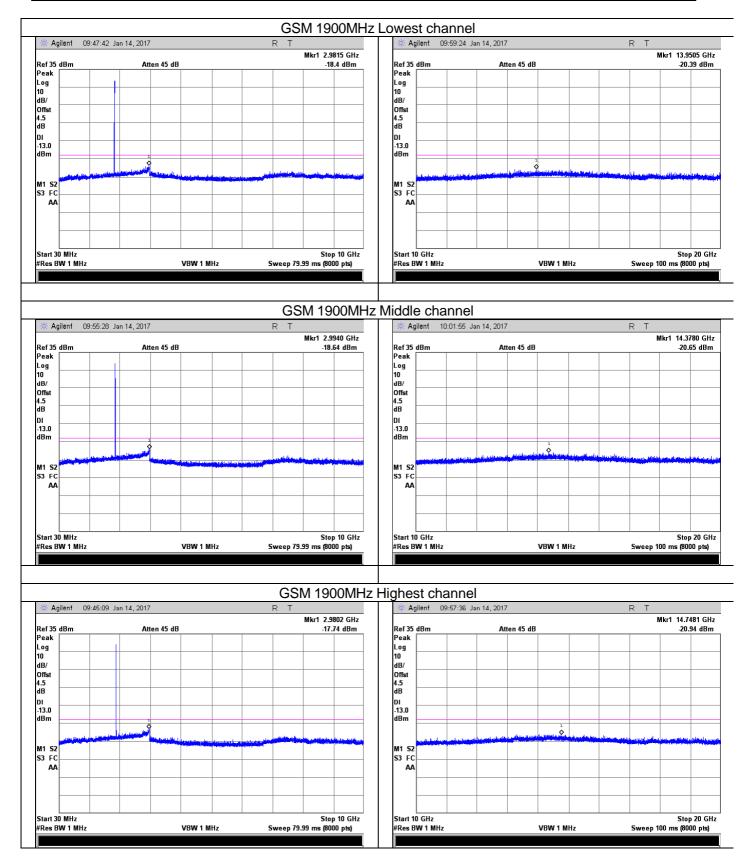
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

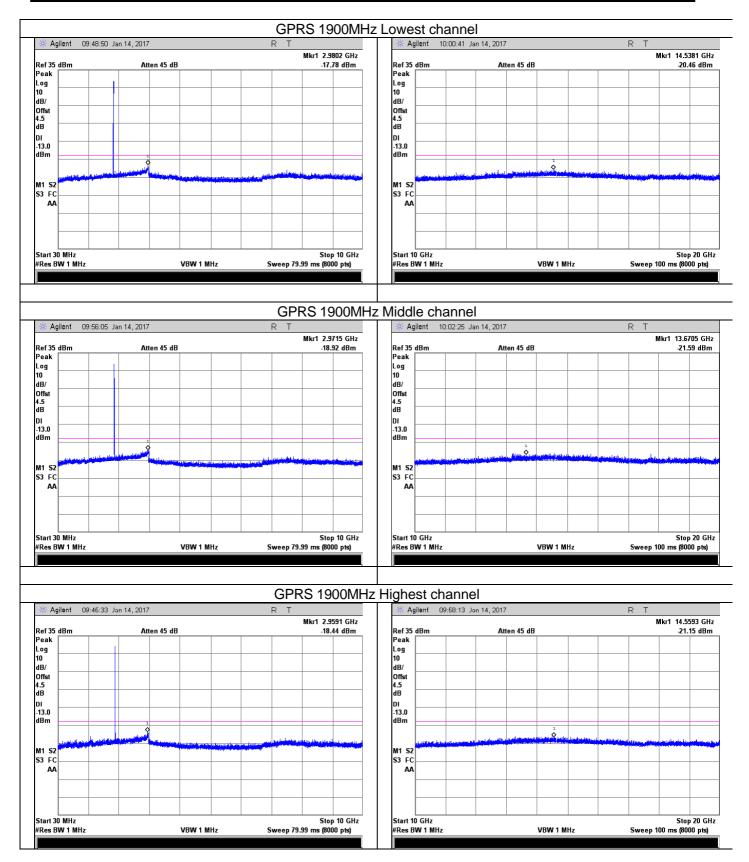
Test plot as follows:

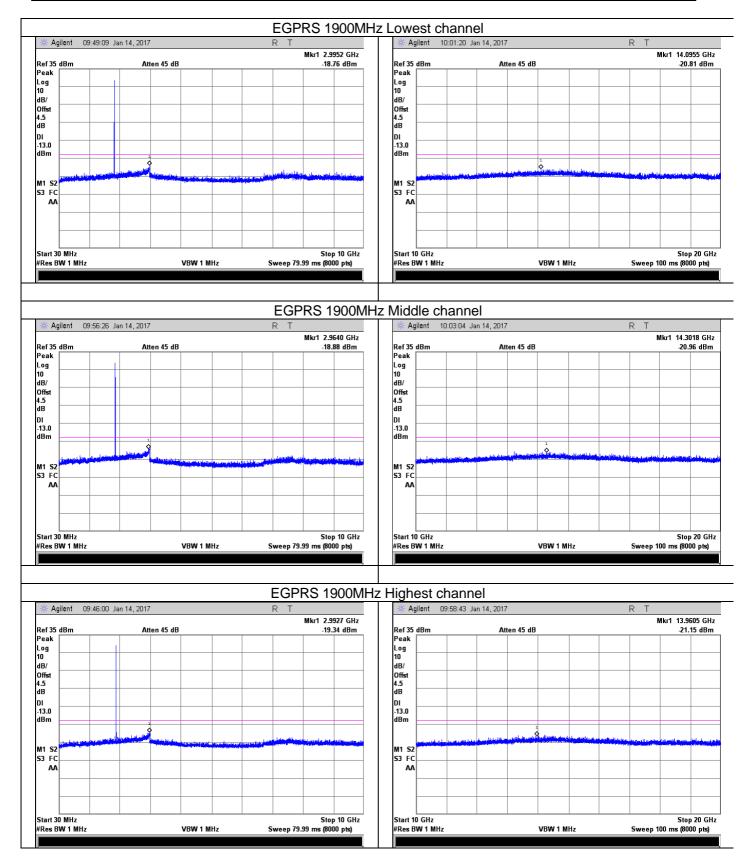


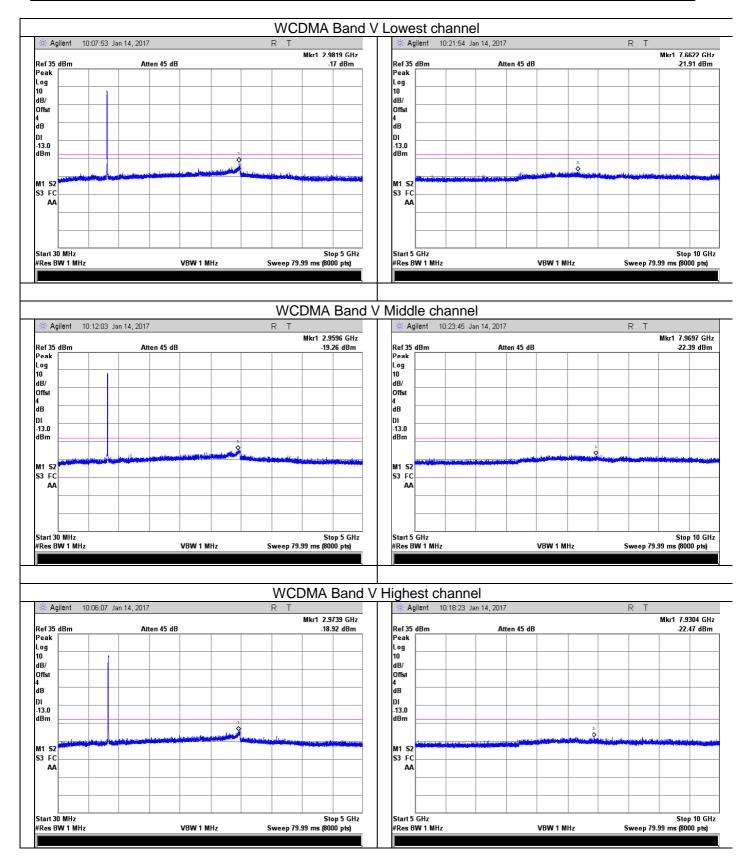


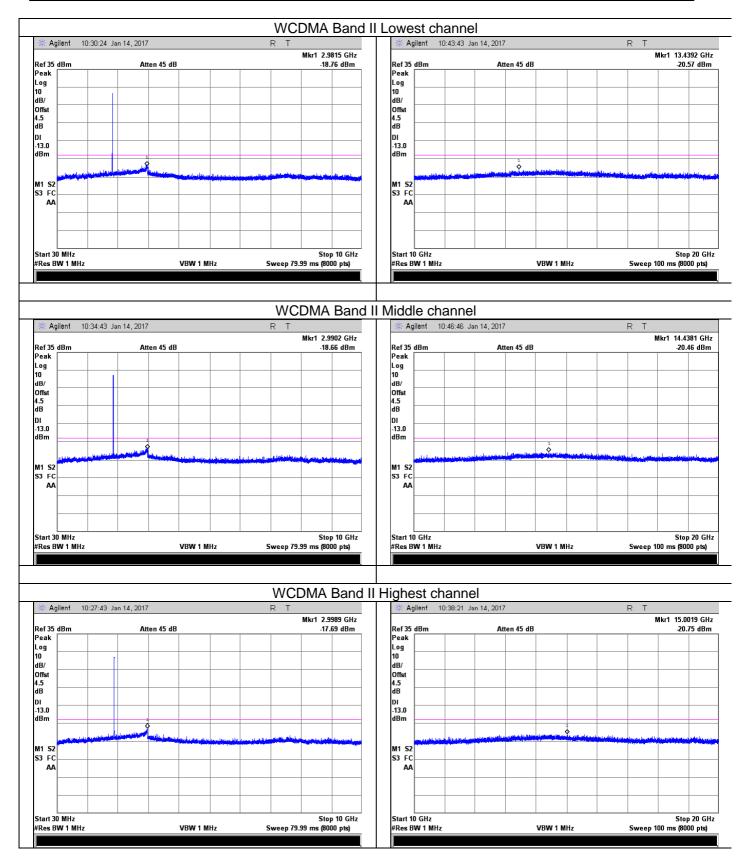














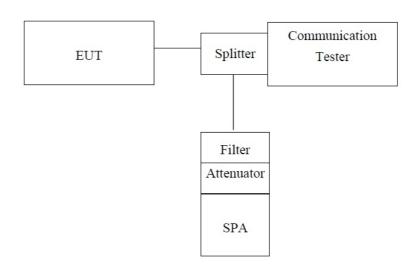
5.6. Conducted Out of Band Emissions

Shenzhen BCTC Technology Co., Ltd.

5.6.1. Limit

According to FCC section 22.917(b) and FCC section 24.238(b), 27.53(g)(h) in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

5.6.2. Test Setup



Note: Measurement setup for testing on Antenna connector

5.6.3. Measurement Procedure

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer and the System Simulator with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the System Simulator to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the System Simulator.

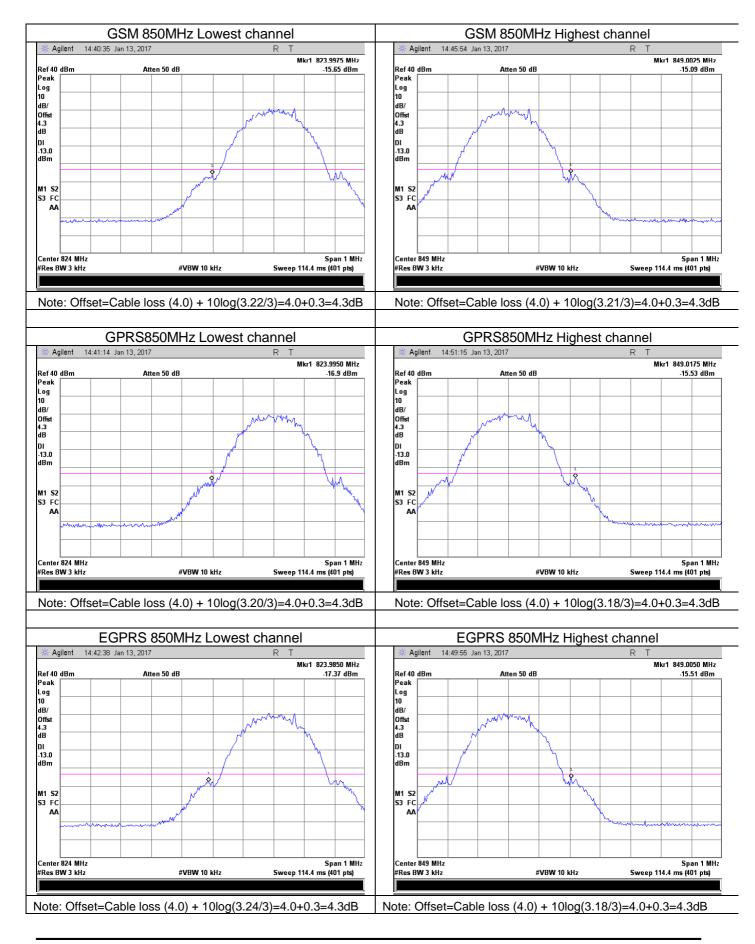
and reference KDB 971168 D01 Power Meas. License Digital Systems v02v02

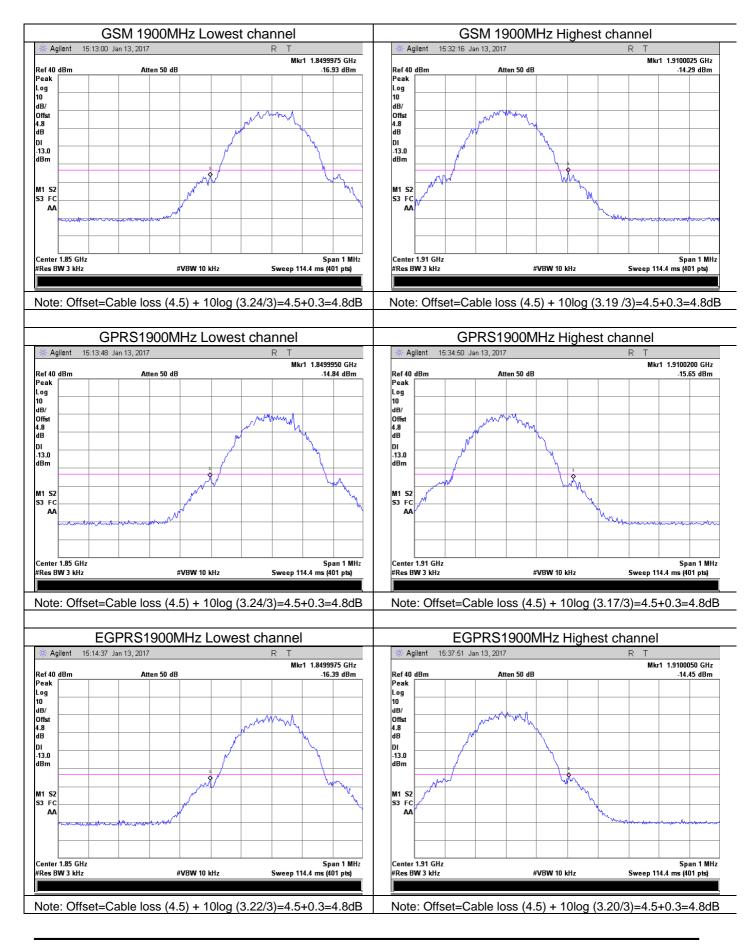
5.6.4. Test Result

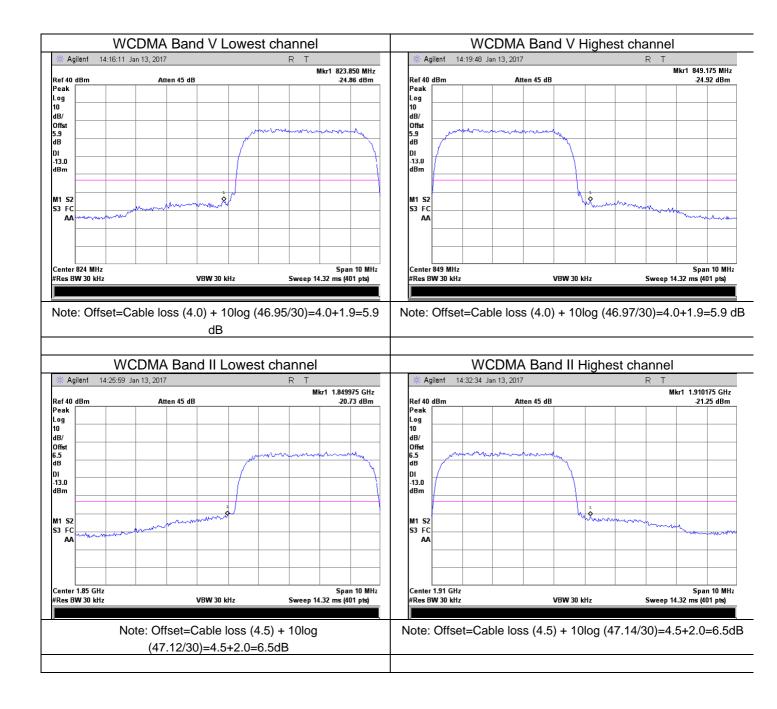
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

Note: Offset=Cable loss+ 10log((-26dB bandwidth/100)/RBW)

Test plot as follows:







5.7. Transmitter Radiated Power (EIRP/ERP)

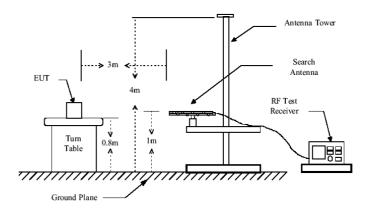
Shenzhen BCTC Technology Co., Ltd.

5.7.1. Limit

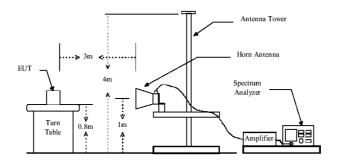
According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

5.7.2. Test Setup

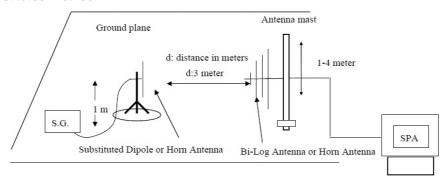
Below 1GHz



Above 1GHz



Substituted method:



5.7.3. Measurement 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. all test in Full-Anechoic Chamber.

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:

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:

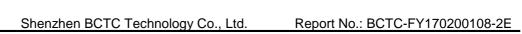
For BAND II:ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

For BAND V:EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

5.7.4. Test Result



EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Anten na Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Result
	Lowoot	V	17.06	15.68	1.65	31.09	20 15	Door
	Lowest	Н	15.08	15.68	1.65	29.11	38.45	Pass
GSM850 (GSM	Middle	V	17.62	15.70	1.67	31.65	38.45	Pass
link)	iviluale	Н	15.49	15.70	1.67	29.52	30.43	F d 5 5
	∐ighost	V	18.28	15.70	1.71	32.27	38.45	Pass
	Highest	Н	15.05	15.70	1.71	29.04	30.43	Pass
	Lowest	V	16.90	15.68	1.65	30.93	38.45	Door
	Lowest	Н	14.94	15.68	1.65	28.97	30.43	Pass
GPRS85	Middle	V	17.45	15.70	1.67	31.48	38.45	Door
0	ivildale	Н	15.34	15.70	1.67	29.37	30.43	Pass
	Highest	V	18.11	15.70	1.71	32.10	20.45	Doos
	riigriest	Н	14.91	15.70	1.71	28.90	38.45	Pass
	Lowest	V	16.99	15.68	1.65	31.02	20 45	Pass
	Lowest	Н	15.02	15.68	1.65	29.05	38.45	Pass
GSM850 (EGPRS	Middle	V	17.55	15.70	1.67	31.58	38.45	Pass
8 link)	ivildale	Н	15.43	15.70	1.67	29.46	30.43	Pass
	Llighoot	V	18.20	15.70	1.71	32.19	20 45	Door
	Highest	Н	17.00	15.70	1.71	30.99	38.45	Pass
			0.00	45.00	4.05	00.04		
	Lowest	V	6.88	15.68	1.65	20.91	38.45	Pass
-		H	5.93	15.68	1.65	19.96		
WCDMA Band V	Middle	V	7.43	15.70	1.67	21.46	38.45	Pass
20.10		Н	6.33	15.70	1.67	20.36		
	Highest	V	8.09	15.70	1.71	22.08	38.45	Pass
	Highest	Н	7.90	15.70	1.71	21.89		





EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Anten na Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
	Lowest	V	12.62	19.35	2.54	29.43	38.45	Pass
	Lowest	Н	10.70	19.35	2.54	27.51	30.43	F d 5 5
PCS1900 (GSM	Middle	V	13.56	19.51	2.62	30.45	38.45	Pass
link)	ivildale	Н	11.39	19.51	2.62	28.28	30.43	F d 5 5
	Highost	V	12.82	19.96	2.69	30.09	38.45	Pass
	Highest	Н	10.78	19.96	2.69	28.05	30.43	Pass
	Lowest	V	12.50	19.35	2.54	29.31	20.45	Door
	Lowest	Н	10.60	19.35	2.54	27.41	38.45	Pass
GPRS19	GPRS19		13.43	19.51	2.62	30.32	20.45	Desc
00	Middle	Н	11.28	19.51	2.62	28.17	38.45	Pass
	l liab oot	V	12.70	19.96	2.69	29.97	20.45	Door
	Highest	Н	10.69	19.96	2.69	27.96	38.45	Pass
	Lawast	V	12.60	19.35	2.54	29.41	20.45	Desc
	Lowest	Н	11.69	19.35	2.54	28.50	38.45	Pass
EGPRS1 900	NA: al all a	V	13.54	19.51	2.62	30.43	20.45	Desc
(EGPRS 8 link)	Middle	Н	11.38	19.51	2.62	28.27	38.45	Pass
S,	l limb and	V	12.80	19.96	2.69	30.07	20.45	Desc
	Highest	Н	11.77	19.96	2.69	29.04	38.45	Pass
		<u> </u>						
	Lowest	V	7.17	19.33	2.52	23.98	38.45	Pass
		Н	7.33	19.33	2.52	24.14		
WCDMA Band II	Middle	V	7.59	19.50	2.60	24.49	38.45	Pass
		Н	7.42	19.50	2.60	24.32		
	Highest	V	6.87	19.94	2.71	24.10	38.45	Pass
	5	Н	6.80	19.94	2.71	24.03		

5.8. Radiated Out of Band Emissions

5.8.1. Limit

According to FCC section 22.917(a) and section 24.238(a), 27.53(g) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power

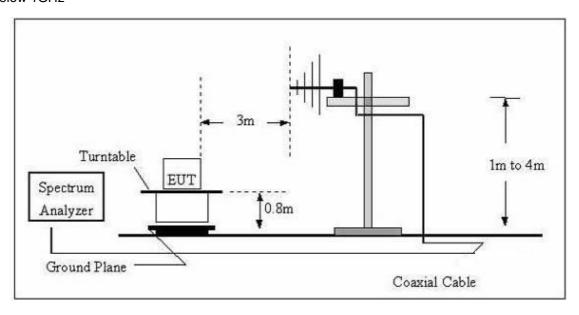
(P) by a factor of at least 43+10*log(P)dB. This calculated to be -13dBm.

The spurious emission with frequency band 1900 according to FCC section 2.1057.

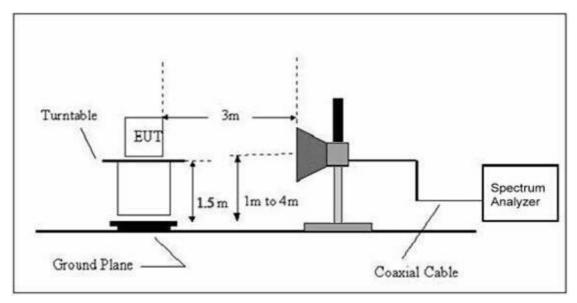
Shenzhen BCTC Technology Co., Ltd.

5.8.2. Test Setup

Below 1GHz

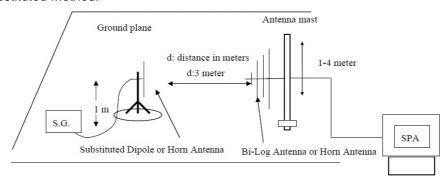


Above 1GHz



Report No.: BCTC-FY170200108-2E

Substituted method:



5.8.3. Measurement Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. 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. all test in Full-Anechoic Chamber.

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.

EIRP (Level)= S.G. output (dBm) + Antenna Gain(dBi) - Cable Loss (dB)

Note: Measurement Uncertainty: ±3.6 dB.

The data show only the worst results, and the other results are very low and not shown in the report.



	F		Spur	rious Emission			Linait	
Band	Frequency (MHz)	Polarization	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Result
	88.37	Vertical	-75.62	3.35	0.38	-72.65		
	1648.40	Vertical	-29.27	6.51	1.35	-24.11		
	2472.60	Vertical	-35.47	6.88	2.53	-31.12		
	3296.80	Vertical	-37.32	7.61	3.67	-33.38		
	4121.00	Vertical	-45.43	8.67	4.06	-40.82	-13	PASS
GSM 850	4945.20	Vertical	-39.98	9.35	4.38	-35.01		
Lowest	138.26	Horizontal	-75.74	4.12	0.51	-72.13		
	2472.40	Horizontal	-34.01	6.51	1.35	-28.85		
	3296.80	Horizontal	-37.26	6.88	2.53	-32.91		
	4121.00	Horizontal	-45.88	7.61	3.67	-41.94		
	4945.20	Horizontal	-49.18	8.67	4.06	-44.57		
	5769.40	Horizontal	-43.41	9.35	4.38	-38.44		



	Гтодиором		Spur	rious Emission			Limit	
Band	Frequency (MHz)	Polarization	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Level (dBm)	(dBm)	Result
	87.96	Vertical	-75.57	3.35	0.38	-72.60		
	1648.70	Vertical	-32.22	6.51	1.35	-27.06		
	2472.10	Vertical	-32.76	6.88	2.53	-28.41	13	
	3296.50	Vertical	-40.24	7.61	3.67	-36.30		
	4121.30	Vertical	-47.81	8.67	4.06	-43.20		PASS
GSM 850	4945.70	Vertical	-43.32	9.35	4.38	-38.35		
Middle	137.69	Horizontal	-76.06	4.12	0.51	-72.45		FA33
	2472.10	Horizontal	-29.54	6.51	1.35	-24.38		
	3296.20	Horizontal	-32.21	6.88	2.53	-27.86		
	4121.70	Horizontal	-48.50	7.61	3.67	-44.56		
	4945.00	Horizontal	-49.89	8.67	4.06	-45.28		
	5769.60	Horizontal	-39.91	9.35	4.38	-34.94		



	F		Spui	rious Emission			Limais	
Band	Frequency (MHz)	Polarization	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Result
	88.69	Vertical	-75.24	3.35	0.38	-72.27		
	1648.30	Vertical	-31.11	6.51	1.35	-25.95		
	2472.10	Vertical	-33.02	6.88	2.53	-28.67	13	
	3296.50	Vertical	-36.17	7.61	3.67	-32.23		
	4121.40	Vertical	-41.49	8.67	4.06	-36.88		PASS
GSM 850	4945.20	Vertical	-46.92	9.35	4.38	-41.95		
Highest	138.22	Horizontal	-76.26	4.12	0.51	-72.65		7 700
	2472.90	Horizontal	-29.93	6.51	1.35	-24.77		
	3296.30	Horizontal	-32.82	6.88	2.53	-28.47		
	4121.20	Horizontal	-38.54	7.61	3.67	-34.60		
	4945.70	Horizontal	-47.17	8.67	4.06	-42.56		
	5769.60	Horizontal	-53.41	9.35	4.38	-48.44		



	Fraguenay		Spur	rious Emission			Limit	
Band	Frequency (MHz)	Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)	(dBm)	Result
	89.03	Vertical	-75.46	3.35	0.38	-72.49		
	3700.40	Vertical	-46.18	7.76	3.75	-42.17		
	5550.60	Vertical	-47.30	9.84	4.94	-42.40	-13	
	7400.80	Vertical	-39.74	10.21	5.32	-34.85		
	9251.00	Vertical	-43.12	11.36	6.02	-37.78		PASS
PCS190	11101.20	Vertical	-44.65	14.52	6.68	-36.81		
0 Lowest	137.21	Horizontal	-75.58	4.12	0.51	-71.97		FA00
	3700.40	Horizontal	-48.40	7.76	3.75	-44.39		
	5550.60	Horizontal	-47.67	9.84	4.94	-42.77		
	7400.80	Horizontal	-42.34	10.21	5.32	-37.45		
	9251.00	Horizontal	-47.56	11.36	6.02	-42.22		
	11101.20	Horizontal	-47.34	14.52	6.68	-39.50		



			Spur	rious Emission			l imait	
Band	Frequency (MHz)	Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Result
	88.14	Vertical	-75.46	3.35	0.38	-72.49		
	3760.00	Vertical	-47.51	7.76	3.75	-43.50		
	5640.00	Vertical	-47.11	9.84	4.94	-42.21	_	
	7520.00	Vertical	-42.73	10.21	5.32	-37.84		
	9400.00	Vertical	-42.13	11.36	6.02	-36.79	13	PASS
PCS1900	11280.00	Vertical	-46.08	14.52	6.68	-38.24		
Middle	137.56	Horizontal	-75.58	4.12	0.51	-71.97		FASS
	3760.00	Horizontal	-45.93	7.76	3.75	-41.92		
	5640.00	Horizontal	-46.67	9.84	4.94	-41.77		
	7520.00	Horizontal	-39.33	10.21	5.32	-34.44	_	
	9400.00	Horizontal	-43.22	11.36	6.02	-37.88		
	11280.00	Horizontal	-45.09	14.52	6.68	-37.25		



	Градиором		Spui	rious Emission			Limit	
Band	Frequency (MHz)	Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)	(dBm)	Result
	89.06	Vertical	-75.50	3.35	0.38	-72.53		
	3819.60	Vertical	-47.16	7.79	3.53	-42.90		
	5729.40	Vertical	-41.60	9.88	5.02	-36.74		
	7639.20	Vertical	-37.81	10.25	5.54	-33.10		
	9549.00	Vertical	-44.67	11.38	6.16	-39.45	-13	PASS
PCS190 0	11458.80	Vertical	-47.11	14.56	6.72	-39.27		
Highest	137.29	Horizontal	-75.62	4.12	0.51	-72.01		FA33
	3819.60	Horizontal	-45.51	7.79	3.53	-41.25		
	5729.40	Horizontal	-41.51	9.88	5.02	-36.65		
	7639.20	Horizontal	-37.18	10.25	5.54	-32.47		
	9549.00	Horizontal	-42.77	11.38	6.16	-37.55		
	11458.80	Horizontal	-44.67	14.56	6.72	-36.83		



	Гиоличана		Spur	rious Emission			Limit	
Band	Frequency (MHz)	Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)	(dBm)	Result
	87.21	Vertical	-75.46	3.35	0.38	-72.49		
	3700.40	Vertical	-46.18	7.76	3.75	-42.17		
	5550.60	Vertical	-47.30	9.84	4.94	-42.40		
	7400.80	Vertical	-39.74	10.21	5.32	-34.85	-13	
	9251.00	Vertical	-43.12	11.36	6.02	-37.78		PASS
WCDMA Band II	11101.20	Vertical	-44.65	14.52	6.68	-36.81		
Lowest	137.26	Horizontal	-75.58	4.12	0.51	-71.97		FA00
	3700.40	Horizontal	-48.40	7.76	3.75	-44.39		
	5550.60	Horizontal	-47.67	9.84	4.94	-42.77		
	7400.80	Horizontal	-42.34	10.21	5.32	-37.45		
	9251.00	Horizontal	-47.56	11.36	6.02	-42.22		
	11101.20	Horizontal	-47.34	14.52	6.68	-39.50		



	- Fraguenov		Spur	ious Emission			Limit	
Band	Frequency (MHz)	Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)	(dBm)	Result
	88.39	Vertical	-75.46	3.35	0.38	-72.49		
	3760.00	Vertical	-47.51	7.76	3.75	-43.50		
	5640.00	Vertical	-47.11	9.84	4.94	-42.21		
	7520.00	Vertical	-42.73	10.21	5.32	-37.84		
	9400.00	Vertical	-42.13	11.36	6.02	-36.79		
WCDMA Band II	11280.00	Vertical	-46.08	14.52	6.68	-38.24		PASS
Middle	137.43	Horizontal	-75.58	4.12	0.51	-71.97		FA33
	3760.00	Horizontal	-45.93	7.76	3.75	-41.92		
	5640.00	Horizontal	-46.67	9.84	4.94	-41.77		
	7520.00	Horizontal	-39.33	10.21	5.32	-34.44		
	9400.00	Horizontal	-43.22	11.36	6.02	-37.88		
	11280.00	Horizontal	-45.09	14.52	6.68	-37.25		



	Гиоличана		Spui	rious Emission			Limit	
Band	Frequency (MHz)	Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)	(dBm)	Result
	88.24	Vertical	-75.42	3.35	0.38	-72.45		
	3819.60	Vertical	-47.11	7.79	3.53	-42.85		
	5729.40	Vertical	-41.56	9.88	5.02	-36.70		
	7639.20	Vertical	-37.76	10.25	5.54	-33.05		
	9549.00	Vertical	-44.62	11.38	6.16	-39.40	-13	PASS
WCDMA Band II	11458.80	Vertical	-47.06	14.56	6.72	-39.22		
Highest	139.04	Horizontal	-75.54	4.12	0.51	-71.93		FA33
	3819.60	Horizontal	-45.46	7.79	3.53	-41.20		
	5729.40	Horizontal	-41.47	9.88	5.02	-36.61		
	7639.20	Horizontal	-37.14	10.25	5.54	-32.43		
	9549.00	Horizontal	-42.73	11.38	6.16	-37.51		
	11458.80	Horizontal	-44.62	14.56	6.72	-36.78		



	Fraguenay		Spur	rious Emission			Limit	
Band	Frequency (MHz)	Polarization	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Level (dBm)	(dBm)	Result
	87.48	Vertical	-75.66	3.35	0.38	-72.69		
	1652.80	Vertical	-29.29	6.51	1.35	-24.13		
	2479.20	Vertical	-35.49	6.88	2.53	-31.14	-13	
	3305.60	Vertical	-37.34	7.61	3.67	-33.40		
	4132.00	Vertical	-45.46	8.67	4.06	-40.85		PASS
WCDMA Band V	4958.40	Vertical	-40.01	9.35	4.38	-35.04		
Lowest	138.21	Horizontal	-75.78	4.12	0.51	-72.17		FA00
	1652.80	Horizontal	-34.03	6.51	1.35	-28.87		
	2479.20	Horizontal	-37.28	6.88	2.53	-32.93		
	3305.60	Horizontal	-45.91	7.61	3.67	-41.97		
	4132.00	Horizontal	-49.21	8.67	4.06	-44.60		
	4958.40	Horizontal	-43.43	9.35	4.38	-38.46		



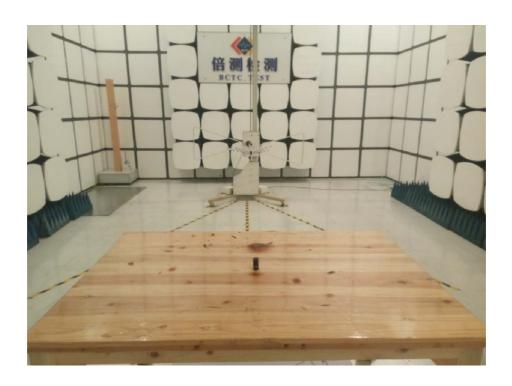
Band	Frequency (MHz)	Spurious Emission					Limit	
		Polarization	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Result
WCDMA Band V Middle	87.69	Vertical	-75.61	3.35	0.38	-72.64	-13	PASS
	1670.00	Vertical	-32.24	6.58	1.38	-27.04		
	2505.00	Vertical	-32.78	6.92	2.57	-28.43		
	3340.00	Vertical	-40.27	7.67	3.72	-36.32		
	4175.00	Vertical	-47.83	8.75	4.19	-43.27		
	5010.00	Vertical	-43.34	9.48	4.45	-38.31		
	139.86	Horizontal	-76.10	4.12	0.51	-72.49		
	1670.00	Horizontal	-29.56	6.58	1.38	-24.36		
	2505.00	Horizontal	-32.23	6.92	2.57	-27.88		
	3340.00	Horizontal	-48.53	7.67	3.72	-44.58		
	4175.00	Horizontal	-49.92	8.75	4.19	-45.36		
	5010.00	Horizontal	-39.94	9.48	4.45	-34.91		

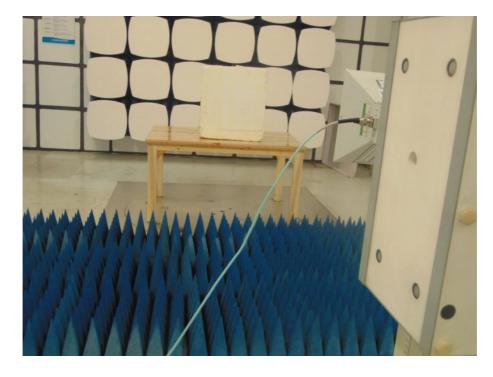


Band	Frequency (MHz)	Spurious Emission					1.111	
		Polarization	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	Level (dBm)	Limit (dBm)	Result
WCDMA Band V Highest	88.26	Vertical	-75.29	3.35	0.38	-72.32	-13	PASS
	1693.20	Vertical	-31.12	6.57	1.48	-26.03		
	2539.80	Vertical	-33.04	6.96	2.67	-28.75		
	3386.40	Vertical	-36.20	7.68	3.78	-32.30		
	4233.00	Vertical	-41.52	8.76	4.24	-37.00		
	5079.60	Vertical	-46.95	9.47	4.63	-42.11		
	137.65	Horizontal	-76.30	4.12	0.51	-72.69		
	1693.20	Horizontal	-29.95	6.57	1.48	-24.86		
	2539.80	Horizontal	-32.84	6.96	2.67	-28.55		
	3386.40	Horizontal	-38.56	7.68	3.78	-34.66		
	4233.00	Horizontal	-47.20	8.76	4.24	-42.68		
	5079.60	Horizontal	-53.44	9.47	4.63	-48.60		

6. PHOTOGRAPHS OF TEST SET-UP

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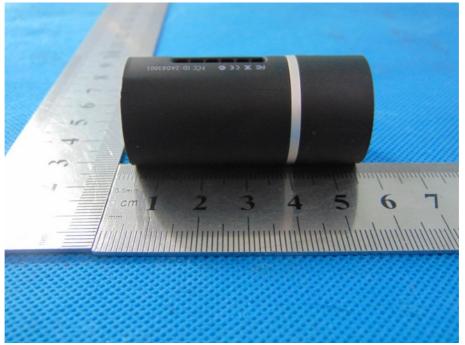
7. PHOTOGRAPHS OF THE EUT



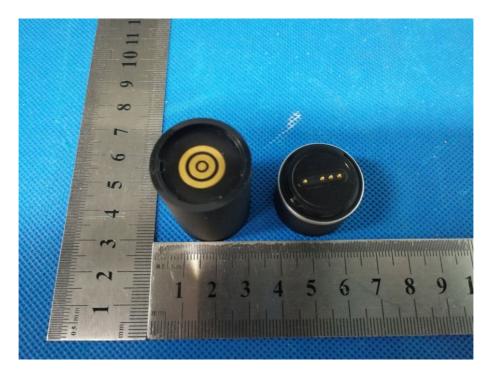














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