FCC Radio Test Report

FCC ID: X4YTRNTY3G

This report concerns (check one): ☒**Original Grant** ☐**Class II Change**

Project No.	:	1510C002
Equipment	:	3G/4G TRINITY PORTABLE SIM-BASED WI-FI HOTSPOT
Model Name	:	ARNPR3G5U1
Applicant	:	NEXXT SOLUTIONS
Address	:	3505 N.W 107TH AVE,MIAMI,FL,33178

Date of Receipt	:	Oct. 08, 2015
Date of Test	:	Oct. 08, 2015 ~ Nov. 02, 2015
Issued Date	:	Nov. 03, 2015
Tested by	:	BTL Inc.

Technical Engineer : shawn xiao
(Shawn Xiao)

Authorized Signatory : Steven Lu
(Steven Lu)

BTL INC.

No.3,Jinshagang 1st Road, Shixia,Dalang Town, Dongguan, Guangdong, China.
TEL: +86-769-8318-3000FAX: +86-769-8319-6000

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**., or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

BTL's report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **BTL-self**, extracts from the test report shall not be reproduced except in full with **BTL**'s authorized written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Table of Contents Page

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-4-1510C002	Original Issue.	Nov. 03, 2015

1. CERTIFICATION

Equipment	:	3G/4G TRINITY PORTABLE SIM-BASED WI-FI HOTSPOT
Brand Name	:	NEXXT
Model Name	:	ARNPR3G5U1
Applicant	:	NEXXT SOLUTIONS
Manufacturer	:	NEXXT SOLUTIONS
Address	:	3505 N.W 107TH AVE,MIAMI,FL,33178
Date of Test	:	Oct. 08, 2015 ~ Nov. 02, 2015
Test Sample	:	Engineering Sample
Standard(s)	:	47 CFR FCC Part 24 Subpart E 47 CFR FCC Part 2 &ANSI/TIA-603-D-2010

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-4-1510C002) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test result included in this report is only for the WCDMA Band II approvalpart of the product.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 24 Subpart E & Part 2			
Standard(s) Section FCC	Test Item	Judgment	Remark
2.1046 24.232(c)	Radiated power	PASS	
2.1049 24.238(a)	Occupied Bandwidth	PASS	
2.1051 24.238(a)	Conducted Spurious Emissions	PASS	
2.1053 24.238(a)	Radiated Spurious Emissions	PASS	
24.238(a)	Band Edge Measurements	PASS	
24.232(d)	Peak To Average Ratio	PASS	
2.1055 24.235	Frequency Stability	PASS	

NOTE:

(1)" N/A" denotes test is not applicable to this device.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.
BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement **y** ± **U**, where expanded uncertainty **U** is based on astandard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95**% ◦

A. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	H	4.06

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	1GHz ~ 18GHz	V	3.12
		1GHz ~ 18GHz	H	3.68
		18GHz ~ 40GHz	V	4.15
		18GHz ~ 40GHz	H	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	3G/4G TRINITY PORTABLE SIM-BASED WI-FI HOTSPOT	
Brand Name	NEXXT	
Model Name	ARNPR3G5U1	
Model Difference	NA	
Modulation Type	WCDMA	BPSK
Operation Frequency	WCDMA	1852.4 ~ 1907.6 MHz
Max. EIRP Power	WCDMA	23.97dBm
Antenna Type	Fixed Internal Antenna	
Antenna Gain	-0.94dBi	
Power Source	#1 Supplied from PC USB port. #2 Supplied from LI-ion Battery.	
Power Rating	#1 DC 5V #2 2000mAh/3.7V/7.4Wh	

Note:
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT contains following accessory devices.

Product	Brand	Model	Description
Battery	N/A	BM301	3.7Vdc, 2000mAh
USB Cable	N/A	N/A	0.8m shielded cable without core

3.2 DESCRIPTION OF TEST MODES AND TEST CONDITION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X/Y/Z axis and antenna ports.
The worst case was found when positioned on Z-plane for ERP and Z-axis for radiated emission.
Following channel(s) was (were) selected for the final test as listed below:

WCDMA MODE			
Test Item	Available Channel	Tested Channel	Mode
EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
Condcudeted Emission	9262 to 9538	9262, 9400, 9538	WCDMA
Radiated Emission	9262 to 9538	9262	WCDMA
Band Edge	9262 to 9538	9262, 9538	WCDMA
Peak to Average Ratio	9262 to 9538	9262, 9400, 9538	WCDMA
Frequency Stability	9262 to 9538	9400	WCDMA

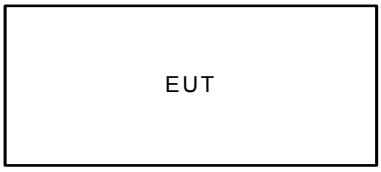
Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in **QPSK** modulation.

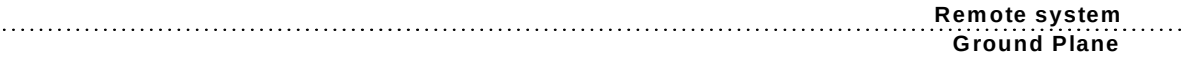
EUT TEST CONDITIONS:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	25°C, 65%RH	DC 3.7V	Kai Xu
Occupied Bandwidth	25°C, 65%RH	DC 3.7V	Kai Xu
Conducted Emission	25°C, 65%RH	DC 3.7V	Kai Xu
Radiated Emission	25°C, 65%RH	DC 3.7V	Kai Xu
Band Edge	25°C, 65%RH	DC 3.7V	Kai Xu
Peak to Average Ratio	25°C, 65%RH	DC 3.7V	Kai Xu
Frequency Stability	25°C, 65%RH	DC 3.7V	Kai Xu

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

E.I.R.P:





3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
-	-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

4. TEST RESULT

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMIT

Mobile / Portable station are limited to 2 watts e.i.r.p.

4.1.2 TEST PROCEDURE

EIRP/ERP:

1. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, 5MHz for WCDMA and CDMA, and 10MHz for LTE mode
2. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
3. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value“ of step b. Record the power level of S.G
5. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.

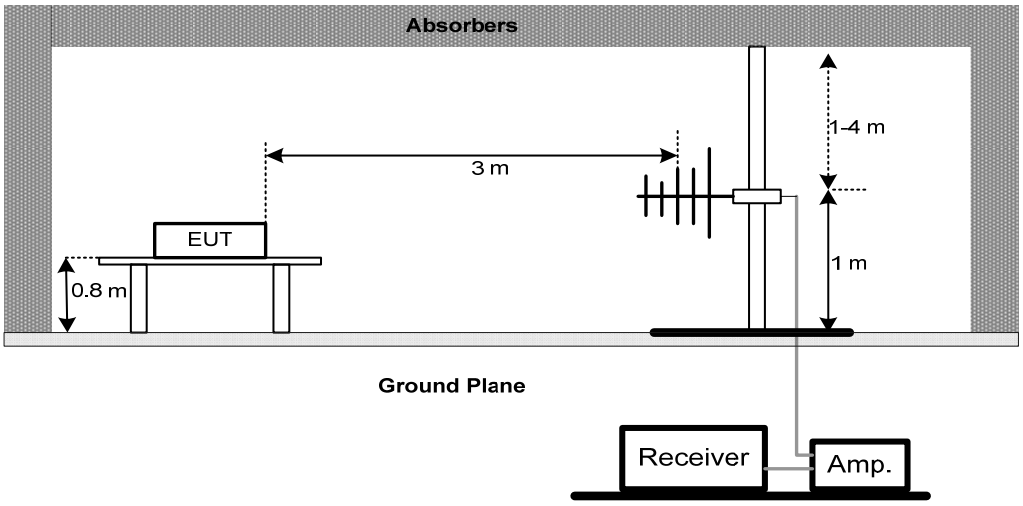
Conducted Power:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA, CDMA, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

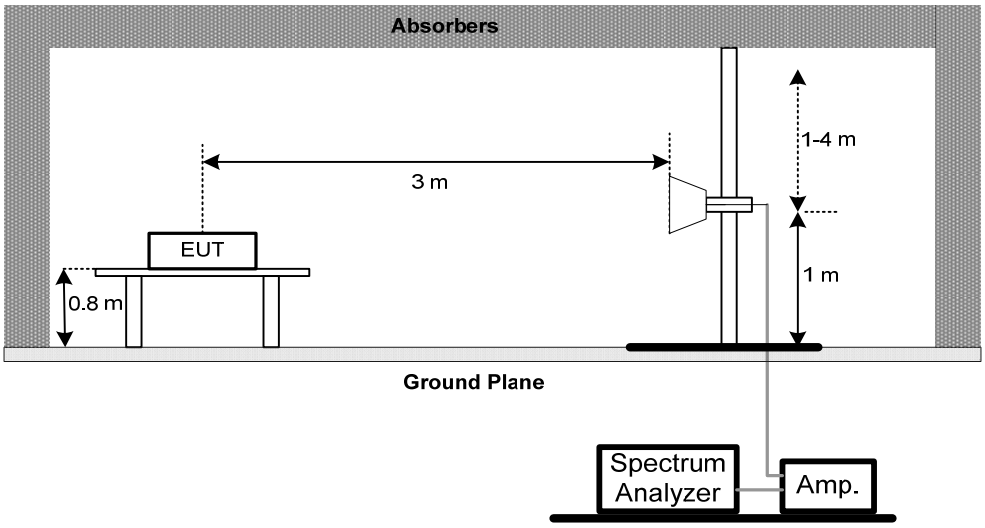
4.1.3 TESTSETUP LAYOUT

ERP Power Measurement

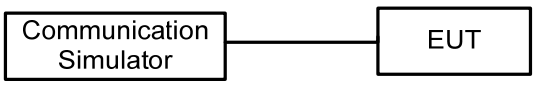
Below 1G



Above 1G



Conducted Power Measurement



4.1.4 TEST DEVIATION

No deviation

4.1.5 TEST RESULTS

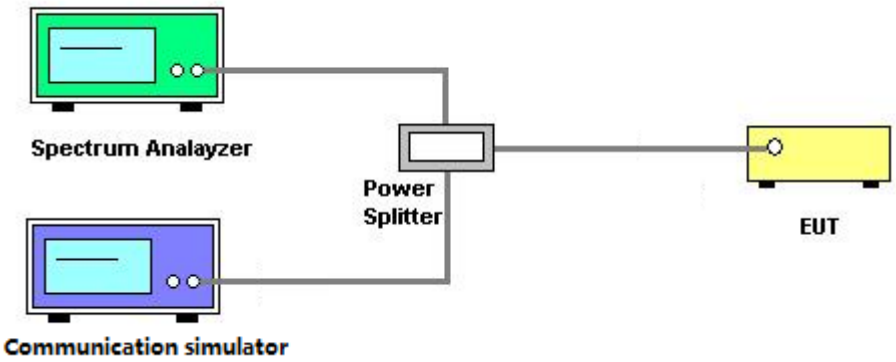
Please refer to the Attachment A.

4.2 OCCUPIED BANDWIDTH MEASUREMENT

4.2.1 TEST PROCEDURE

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

4.2.2 TEST SETUP LAYOUT



4.2.3 TEST DEVIATION

No deviation

4.2.4 TEST RESULTS

Please refer to the Attachment B.

4.3 CONDUCTED EMISSIONS MEASUREMENT

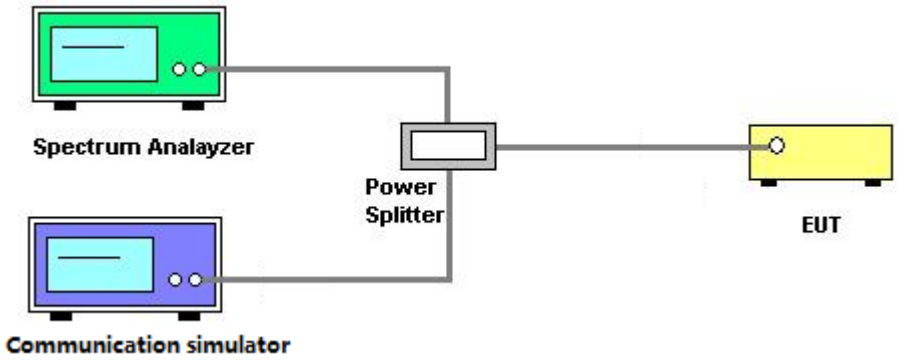
4.3.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

4.3.2 TEST PROCEDURES

1. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
2. Measuring frequency range is from 9 kHz to 9GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

4.3.3 TESTSETUP LAYOUT



4.3.4 TESTDEVIATION

No deviation

4.3.5 TEST RESULTS

Please refer to the Attachment C.

4.4 RADIATED EMISSIONS MEASUREMENT

4.4.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

4.4.2 TEST PROCEDURES

1. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
2. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value “ of step a. Record the power level of S.G
3. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
4. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.4.3 TESTSETUP LAYOUT

This test setup layout is the same as that shown in **section 4.1.3.**

4.4.4 TESTDEVIATION

No deviation

4.4.5 TEST RESULTS

Please refer to the Attachment D.

4.5 BAND EDGE MEASUREMENT

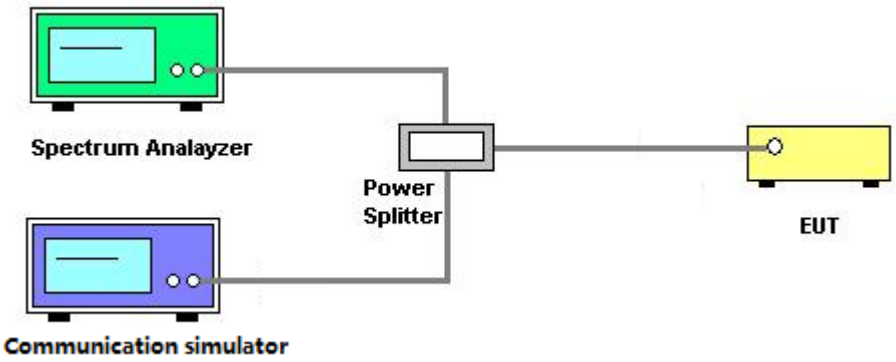
4.5.1 LIMIT

A 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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.5.2 TEST PROCEDURES

1. All measurements were done at low and high operational frequency range.
2. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 3kHz and VB of the spectrum is 10kHz (GSM/GPRS/EDGE).
3. The center frequency of spectrum is the band edge frequency and span is 5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA).
4. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 13kHz and VB of the spectrum is 51kHz (LTE Bandwidth 1.4MHz).
5. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz (LTE Bandwidth 3MHz).
6. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Bandwidth 5MHz/10MHz).
7. Record the max trace plot into the test report.

4.5.3 TESTSETUP LAYOUT



4.5.4 TESTDEVIATION

No deviation

4.5.5 TEST RESULTS

Please refer to the Attachment E.

4.6 PEAK TO AVERAGE RATIO MEASUREMENT

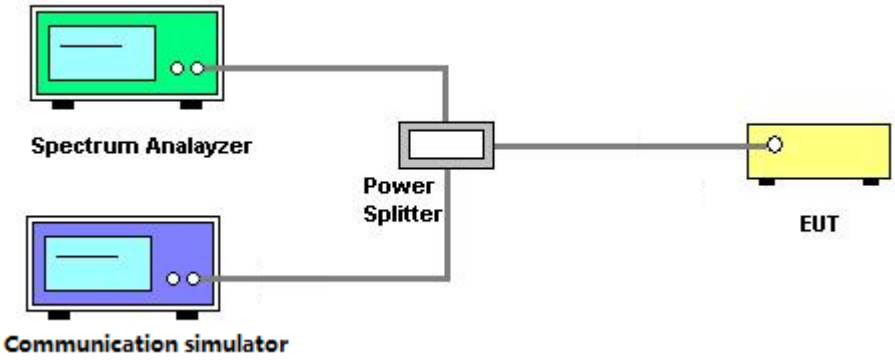
4.6.1 LIMIT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.6.2 TEST PROCEDURES

1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

4.6.3 TESTSETUP LAYOUT



4.6.4 TESTDEVIATION

No deviation

4.6.5 TEST RESULTS

Please refer to the Attachment F.

4.7 FREQUENCY STABILITY MEASUREMENT

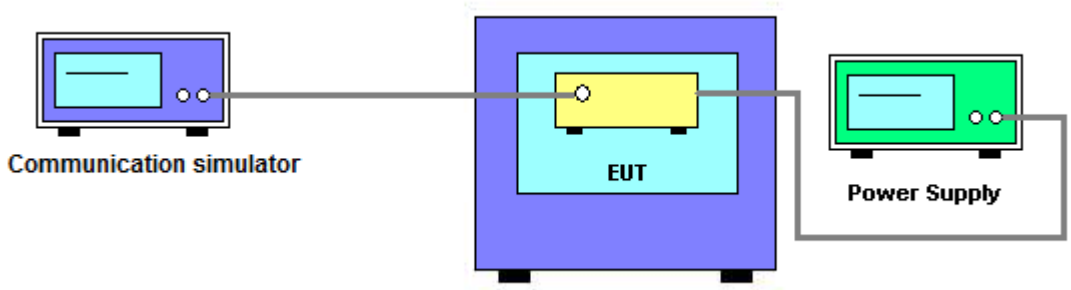
4.7.1 LIMIT

1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.7.2 TEST PROCEDURES

1. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
2. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
3. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5°C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
4. The frequency error was recorded frequency error from the communication simulator.

4.7.3 TESTSETUP LAYOUT



4.7.4 TESTDEVIATION

No deviation

4.7.5 TEST RESULTS

Please refer to the Attachment G.

5. LIST OF MEASUREMENT EQUIPMENTS

Radiated Emission & ERP or EIRP Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Nov. 17, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	75789	Mar. 28, 2016
7	Amplifier	Agilent	8449B	3008A02274	Nov. 02, 2015
8	Test Cable	emci	EMC104-SM-SM-10000(1GHz－26.5GHz)	C-68	Jun. 28, 2016
9	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
10	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
11	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
12	Wireless Communication Test Set	(8960 Series) Agilent	E5515C	MY48364183	Mar. 28, 2016

Conducted Emission & Band Edge & Occupied Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA SpectrumAnalyzer	Agilent	N9010A	MY50520044	Mar. 28, 2016
2	Wireless Communication Test Set	(8960 Series)Agilent	E5515C	MY48364183	Mar. 28, 2016
3	wideband radio communication tester	R&S	CMW500	152372	Jan.30, 2016
4	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	331000910-1	Mar. 17, 2016
5	Test Cable	N/A	RG316	Cable4-001	Jul. 15, 2016
6	Test Cable	N/A	RG316	Cable4-002	Jul. 15, 2016

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Wireless Communication Test Set	(8960 Series)Agilent	E5515C	MY48364183	Mar. 28, 2016
2	wideband radio communication tester	R&S	CMW500	152372	Jan.30, 2016
3	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	331000910-1	Mar. 17, 2016
4	Test Cable	N/A	RG316	Cable4-001	Jul. 15, 2016
5	Const Temp. & Humidity Chamber	GIANT FORCE	ITH-225-20-S	IAB0309-001	Dec.05, 2015
6	DC power supply	GW Instek	GPC-3030DN	EK880675	Oct. 13, 2016

Remark: ”N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

6. EUT TEST PHOTO

Radiated Measurement Photos

30MHz to 1000MHz

Radiated Measurement Photos

Above 1000MHz

ATTACHMENT A - OUTPUT POWER

E.I.R.P Power

WCDMA Band II					
Plane	Channel	Frequency (MHz)	EIRP(dBm)	Max. Limit (dBm)	Polarization (H/V)
Z	9262	1852.4	23.93	33.00	H
	9400	1880.0	23.97	33.00	H
	9538	1907.6	23.00	33.00	H
	9262	1852.4	23.30	33.00	V
	9400	1880.0	23.40	33.00	V
	9538	1907.6	22.01	33.00	V

Conducted Power:

Band	WCDMA II			
TX Channel	Max. Tune-up Power	9262	9400	9538
RX Channel		9662	9800	9938
Frequency		1852.4	1880	1907.6
RMC 12.2K	23.00	22.89	22.55	22.39
RMC 64K	23.00	22.87	22.52	22.33
RMC 144K	23.00	22.88	22.50	22.34
RMC 384K	23.00	22.87	22.51	22.35
HSDPA Subtest-1	22.00	21.95	21.67	21.58
HSDPA Subtest-2	22.00	21.88	21.63	21.53
HSDPA Subtest-3	22.00	21.42	21.20	21.07
HSDPA Subtest-4	22.00	21.42	21.19	21.04
HSUPA Subtest-1	20.50	19.89	19.65	19.55
HSUPA Subtest-2	20.50	19.30	19.06	18.94
HSUPA Subtest-3	20.50	20.37	20.11	19.95
HSUPA Subtest-4	20.50	19.81	19.59	18.86
HSUPA Subtest-5	20.50	19.91	19.58	19.40
HSPA+ Subtest-1	22.00	21.89	21.61	21.39
HSPA+ Subtest-2	22.00	21.88	21.59	21.40
HSPA+ Subtest-3	22.00	21.92	21.56	21.42
HSPA+ Subtest-4	22.00	21.89	21.55	21.38
HSPA+ Subtest-1（UL 16 QAM）	20.50	20.37	20.10	20.05

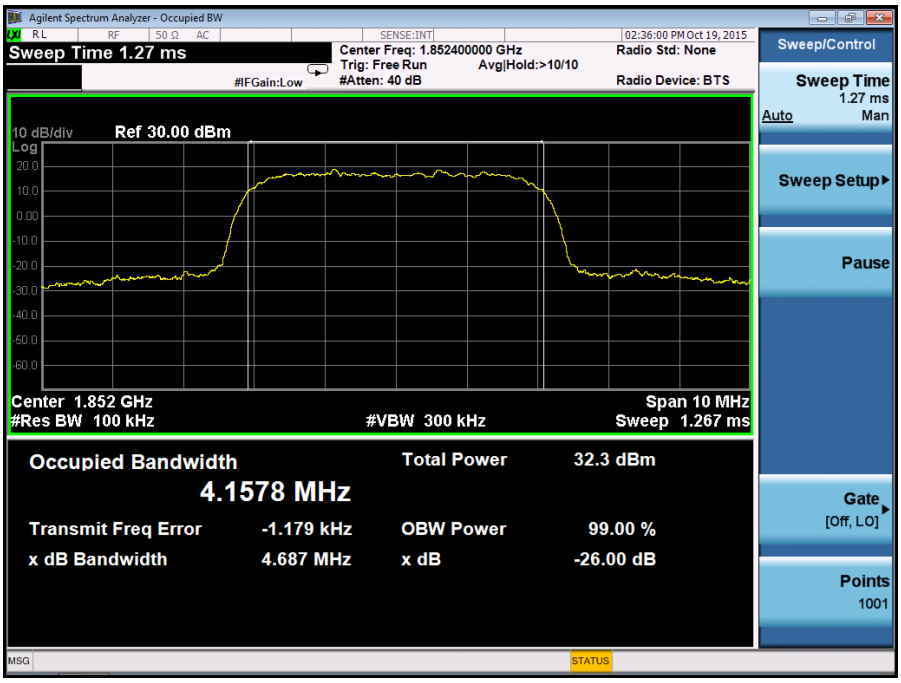
REMARKS:

1. Radiated Output Power(dBm)=Raw Value(dBm) + Correction Factor(dB) +Ant Gain(dBi)
2. Correction Factor(dB) = Power SplitterLoss(dB) + Cable Loss(dB)
3. The antenna gain is -0.94dBi
4. Tests have been conducted for both vertical and horizontal plane and the worst case was found in horizontal plane and the results were selected and recorded in the report

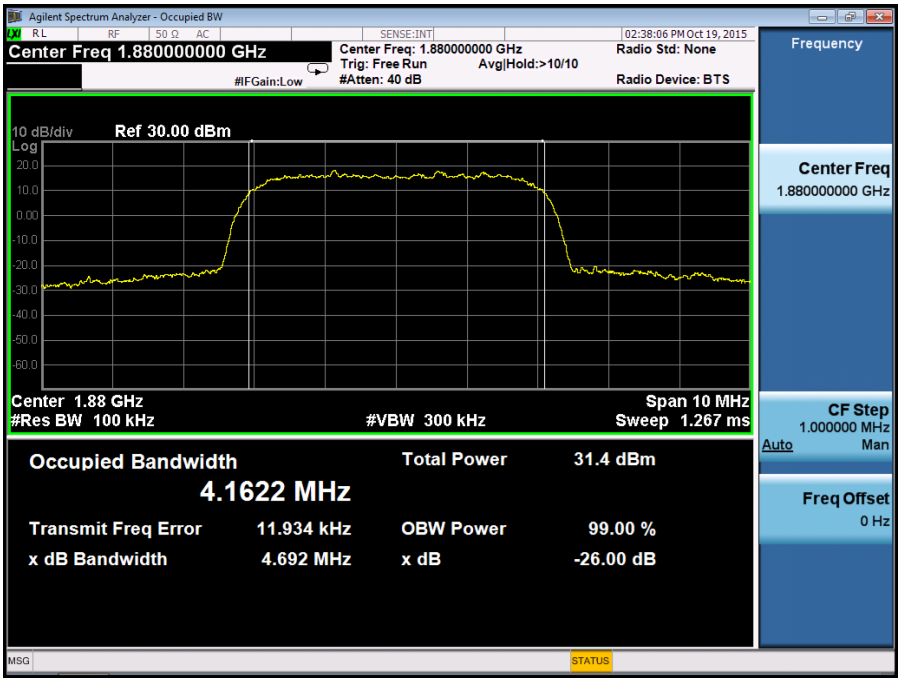
ATTACHMENT B - OCCUPIED BANDWIDTH

Test Mode : TX Mode ConfigurationWCDMA-12.2K RMC				
Channel	**Frequency**	**99% OBW (MHz)**	**-26dBc Bandwidth(MHz)**	**Result**
9262	1852.400MHz	4.16	4.69	**Complies**
9400	1880.000 MHz	4.16	4.69	**Complies**
9538	1907.600 MHz	4.16	4.69	**Complies**

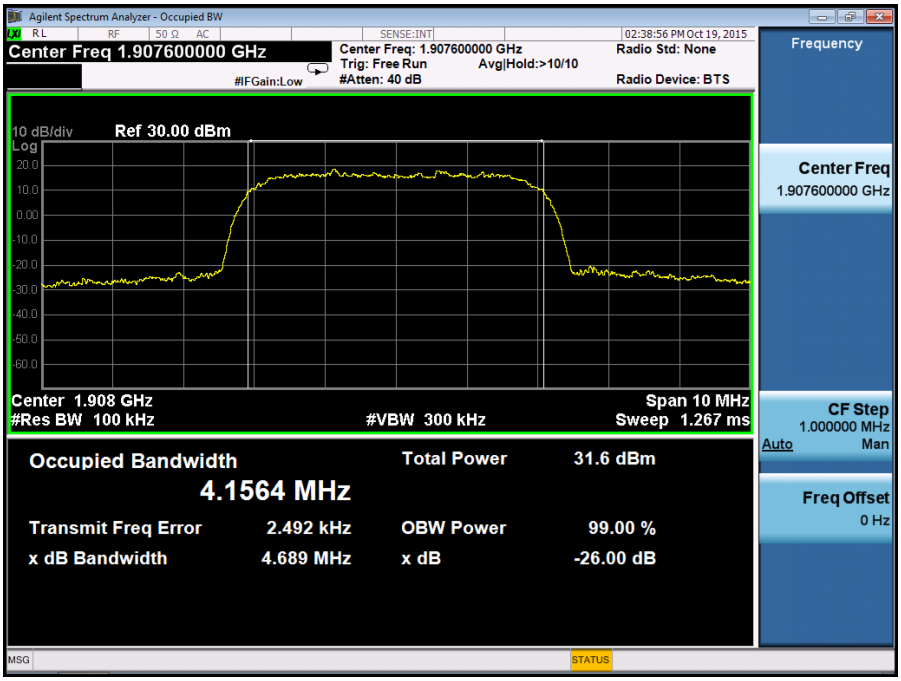
99% Occupied Bandwidth channel 9262



99% Occupied Bandwidth channel 9400



99% Occupied Bandwidth channel 9538



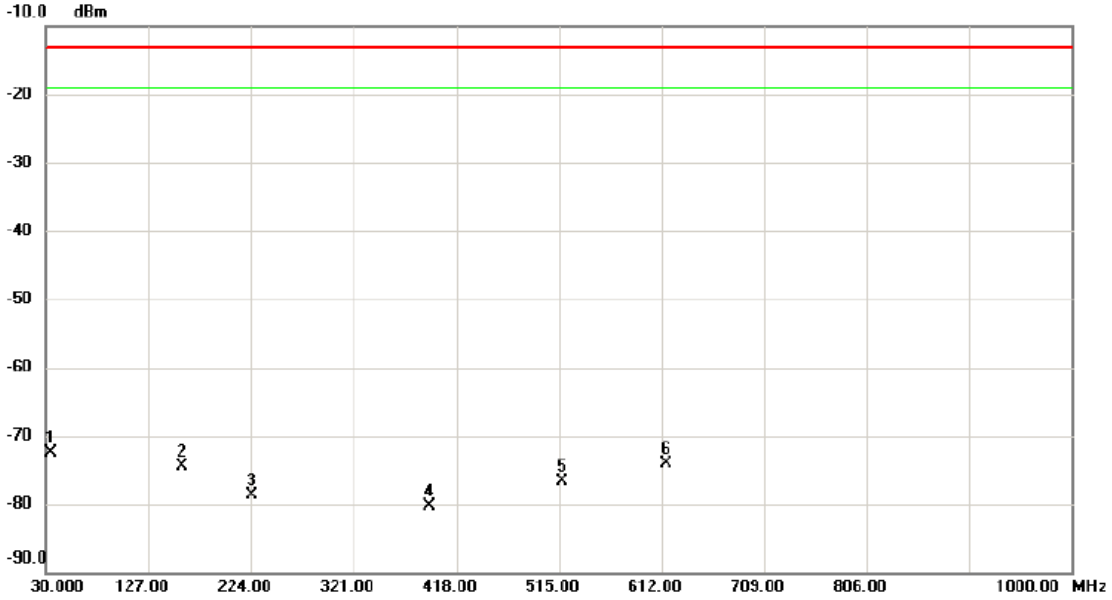
ATTACHMENT C – CONDUCTED EMISSIONS

Conducted Spurious of Configuration- 12.2K RMC channel 9400

ATTACHMENT D - RADIATED EMISSION

Test Mode:	TX CH940012.2K RMC

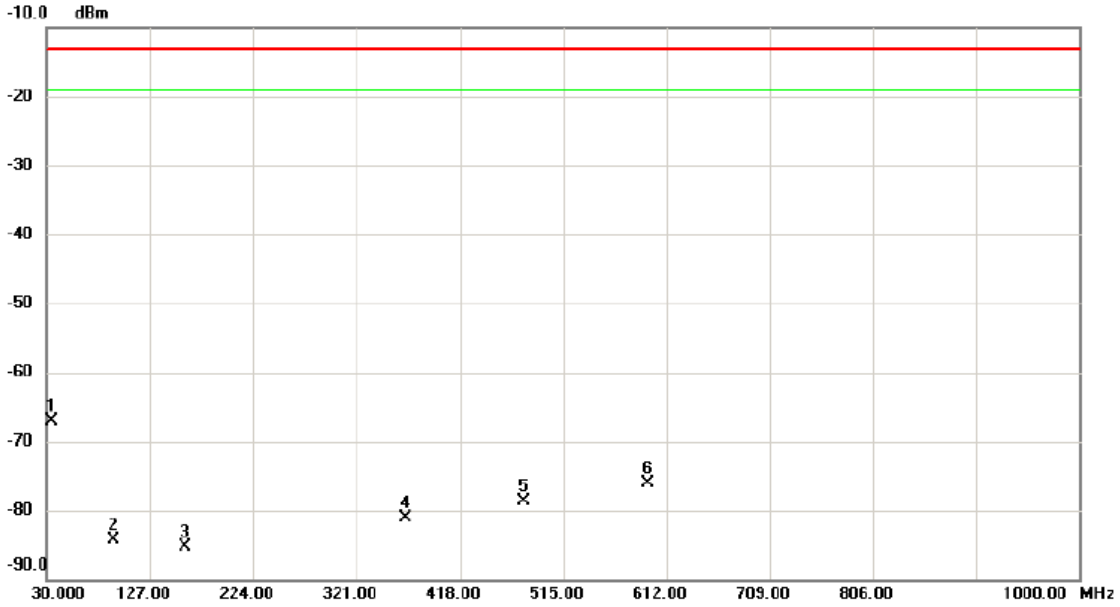
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	33.8800	-62.92	-9.62	-72.54	-13.00	-59.54	peak	
2		159.0100	-72.77	-1.77	-74.54	-13.00	-61.54	peak	
3		224.9700	-76.79	-1.85	-78.64	-13.00	-65.64	peak	
4		392.7800	-79.31	-1.01	-80.32	-13.00	-67.32	peak	
5		517.9100	-79.47	2.78	-76.69	-13.00	-63.69	peak	
6		615.8800	-78.89	4.85	-74.04	-13.00	-61.04	peak	

Test Mode:	TX CH940012.2K RMC

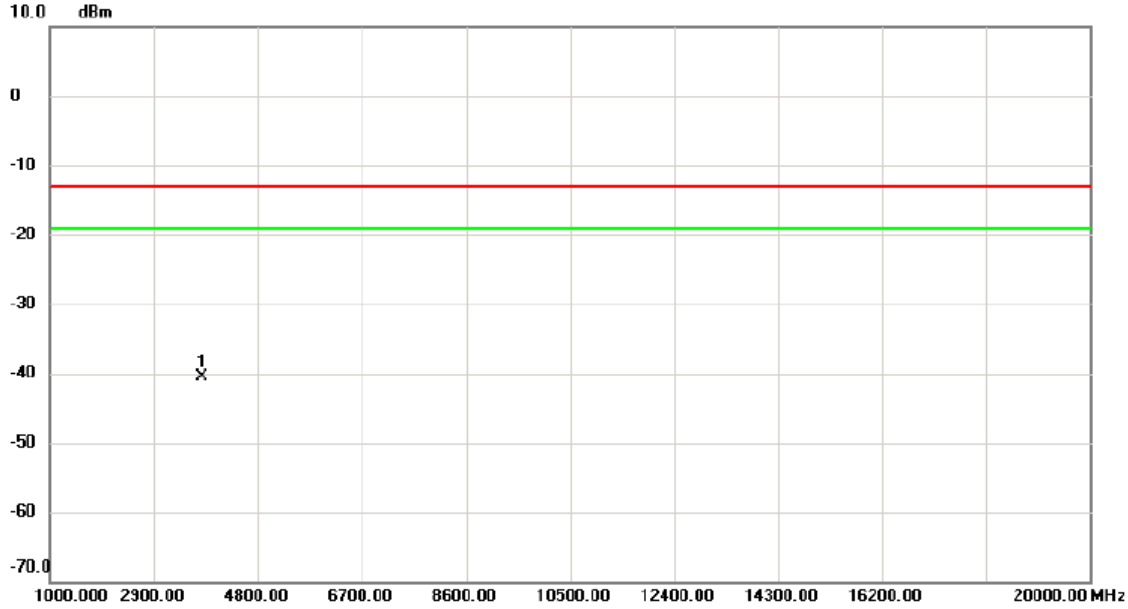
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	33.8800	-67.97	0.91	-67.06	-13.00	-54.06	peak	
2		92.0800	-76.06	-8.24	-84.30	-13.00	-71.30	peak	
3		159.9800	-81.12	-4.21	-85.33	-13.00	-72.33	peak	
4		366.5900	-80.43	-0.71	-81.14	-13.00	-68.14	peak	
5		478.1400	-78.92	0.20	-78.72	-13.00	-65.72	peak	
6		594.5400	-78.47	2.28	-76.19	-13.00	-63.19	peak	

Test Mode:	TX CH940012.2K RMC

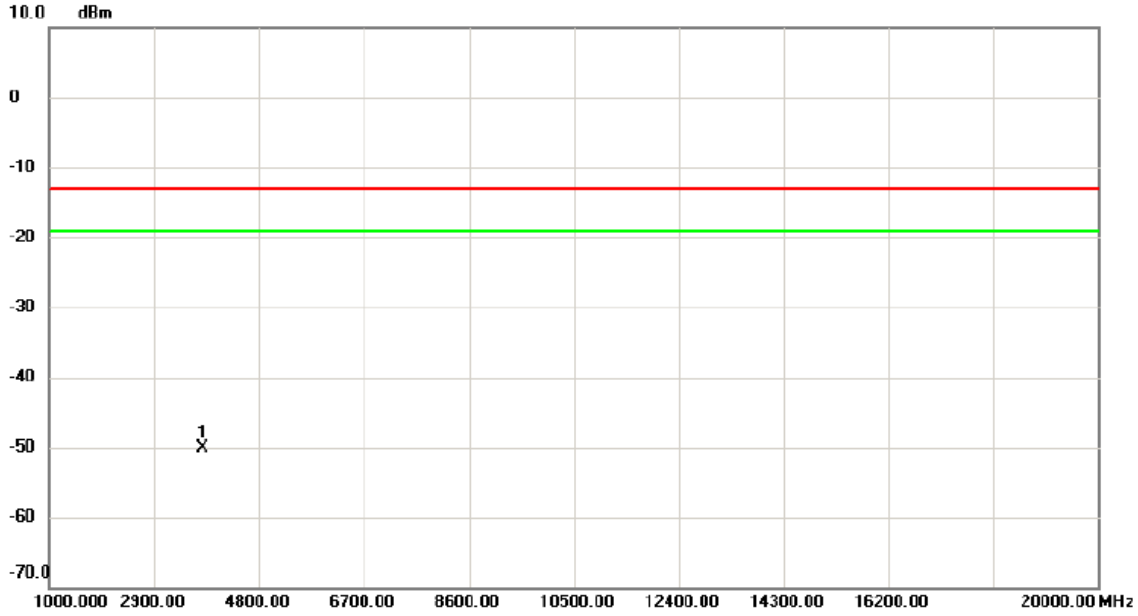
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3761.540	-55.10	14.51	-40.59	-13.00	-27.59	peak	

Test Mode:	TX CH940012.2K RMC

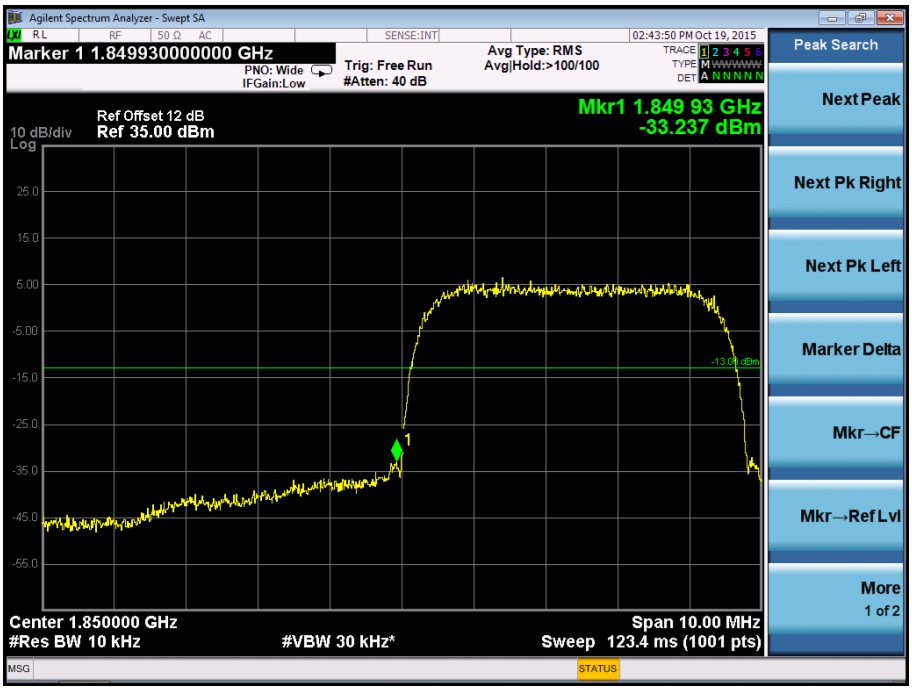
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	3761.620	-61.46	11.35	-50.11	-13.00	-37.11	peak	

ATTACHMENT E - BAND EDGE

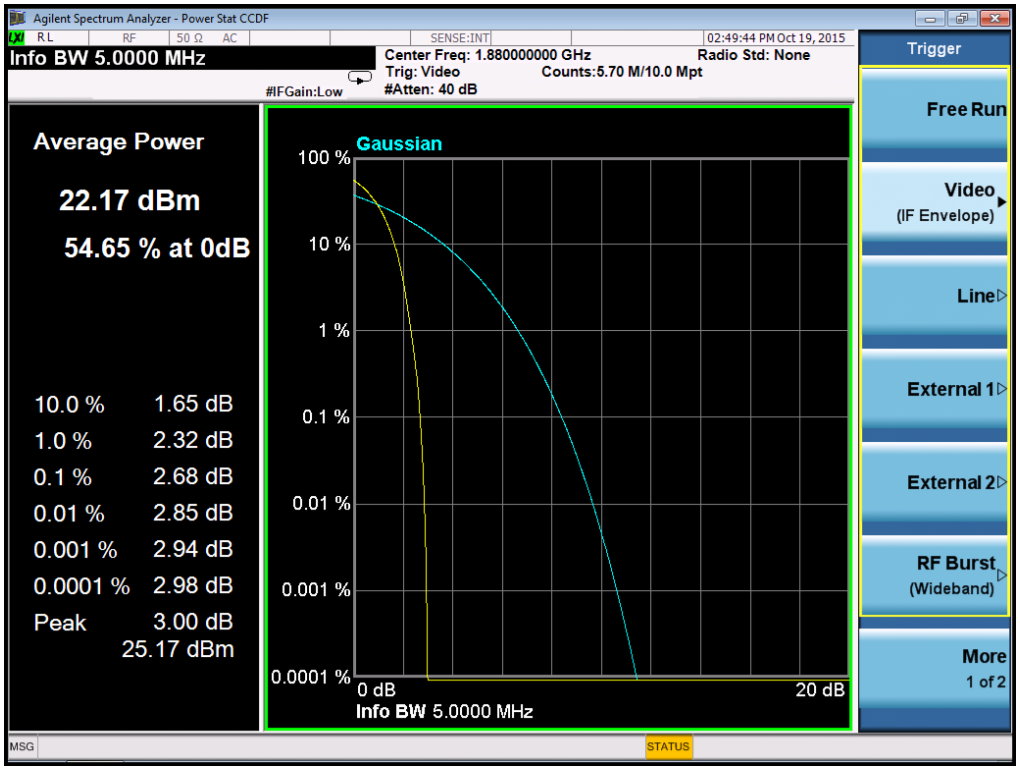
Band Edge on Configuration WCDMA- 12.2K RMC / Channel 9262-CONDUCTED MODE



Band Edge on Configuration WCDMA- 12.2K RMC / Channel 9538-CONDUCTED MODE

ATTACHMENT F – PEAK TO AVERAGE RATIO

Peak to Average Ratio of Configuration- 12.2K RMC channel 9400



ATTACHMENT G - FREQUENCY STABILITY

Temperature vs. Frequency Stability

Temperature(℃)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
0	2.64	0.001404255	2.5
10	1.24	0.000659574	2.5
20	1.15	0.000611702	2.5
30	2.39	0.001271277	2.5
40	3.41	0.00181383	2.5
45	5.24	0.002787234	2.5
Max. Deviation (ppm)	**5.24**	**0.002787234**	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.7	6.58	0.0035	2.5
3.5	4.05	0.002154255	2.5
4.35	6.12	0.003255319	2.5
Max. Deviation (ppm)	**6.58**	**0.0035**	2.5