

TEST REPORT

FCC Part 22 Subpart H/ RSS-132

Report Reference No	C1L1/08188063-WF04
•	

Compiled by: (position+printed name+signature)

Tested by:

(position+printed name+signature)

Approved by: (position+printed name+signature)

Allen Wang (File administrators)

> Nice Nong (Test Engineer)

> > Ivan Xie (Manager)

Allen Wang
Nice Nong

Product Name: Vehicle Communicator

Model/Type reference: UV350 List Model(s)..... N/A Trade Mark.....: Uniden

FCC ID...... 2AOCX-UV350 IC 23378-UV350

Applicant's name Siyata Mobile Inc.

Test Firm.....: Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Address of Test Firm

Nanshan District, Shenzhen, China 518055

Test specification.....

Standard FCC CFR Title 47 Part 2, Part 22H

EIA/TIA 603-D: 2010 KDB 971168 D01 RSS-132 issue 3

TRF Originator: Shenzhen CTL Testing Technology Co., Ltd.

Master TRF...... Dated 2011-01

Date of Receipt.....: Sep. 27, 2017

Date of Test Date...... Sep. 28, 2017 –Nov. 24, 2017

Data of Issue..... Nov. 25, 2017

Result..... Pass

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TEST REPORT

Took Donort No	CTL1708188063-WF04	Nov. 25, 2017
Test Report No. :	C1L1700100003-WF04	Date of issue

Equipment under Test : Vehicle Communicator

Model /Type : UV350

Listed Models : N/A

Applicant : Siyata Mobile Inc.

Address : 1001 Lenoir St Suite A, Montreal, Quebec H4C 2Z6 Canada

Manufacturer : Siyata Mobile Inc.

Address : 1001 Lenoir St Suite A, Montreal, Quebec H4C 2Z6 Canada

Test result	Pass *

^{*}In the configuration tested, the EUT complied with the standards specified page 5.

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Testing Technol

** Modified History **

Revisions			Report No.	Remark
Version 1.0	Version 1.0 Initial Test Report Release		CTL1708188063-WF04	Tracy Qi



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1. SUMMARY

1.1. TEST STANDARDS

The tests were performed according to following standards:

FCC Part 22: PRIVATE LAND MOBILE RADIO SERVICES.

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

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

KDB971168 D01: v02r02 MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

ANSI C63.10-2013 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

RSS-Gen Issue 4: General Requirements for Compliance of Radio Apparatus

RSS-132 Issue 3: Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz

SRSP-503 RSS-133 Issue 7: Technical Requirements for Cellular Radiotelephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz

1.2. Test Description

Test Item	Section in CFR 47	Result	
RF Output Power	Part 2.1046 Part 22.913(a) RSS-132(5.4)	Pass	
Peak-to-Average Ratio	RSS-132(5.4)	Pass	
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917(b) RSS-GEN 6.6	Pass	
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917(b) RSS-132(5.6)	Pass	
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917(b) RSS-132(5.6)	Pass	
Out of band emission, Band Edge	Part 2.1051 Part 22.917(b) RSS-132(5.6)	Pass	
Frequency stability	Part 2.1055 22.917 RSS-132(5.3)	Pass	

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1.3. Test Facility

1.3.1 Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 32/EN 55032 requirements.

1.3.2 Laboratory accreditation

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

IC Registration No.: 9618B

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

FCC-Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 970318, December 19, 2013.

1.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods — Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Test Range		Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	Above 1GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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2. GENERAL INFORMATION

2.1. Environmental conditions

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

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

2.2. General Description of EUT

Product Name:	Vehicle Communicator		
Model/Type reference:	UV350		
Power supply:	DC 12V form battery		
LTE			
Operation Band:	FDD-LTE: Band 2/4/5/7/13/14/17		
Modulation Type:	QPSK, 16QAM		
Release Version:	Release 9		
Category:	Cat 4		
Antenna Type:	External antenna		

Note: For more details, refer to the user's manual of the EUT.

2.3. Description of Test Modes

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

2.4. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Bilog Antenna	Sunol Sciences Corp.	estible 7	A061713	2017/06/02	2018/06/01
Bilog Antenna	Sunol Sciences Corp.	JB1	A061714	2017/06/02	2018/06/01
EMI Test Receiver	R&S	ESCI	103710	2017/06/02	2018/06/01
Spectrum Analyzer	Agilent	E4407B	MY41440676	2017/05/21	2018/05/20
Spectrum Analyzer	Agilent	N9020	US46220290	2017/01/16	2018/01/17
Controller	EM Electronics	Controller EM 1000	N/A	2017/05/21	2018/05/20
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2017/05/19	2018/05/18
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062014	2017/05/19	2018/05/18
Active Loop Antenna	SCHWARZBEC K	FMZB1519	1519-037	2017/05/19	2018/05/18
Amplifier	Agilent	8349B	3008A02306	2017/05/19	2018/05/18
Amplifier	Agilent	8447D	2944A10176	2017/05/19	2018/05/18

2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with of the Part 22 and RSS-132 Rules.

2.6. Modifications

V1.0

No modifications were implemented to meet testing criteria.



3. TEST CONDITIONS AND RESULTS

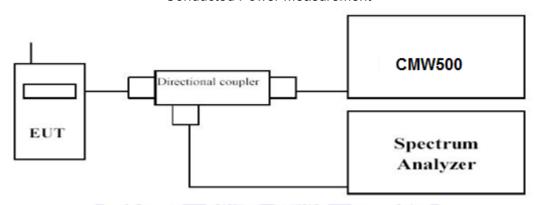
3.1. Output Power

LIMIT

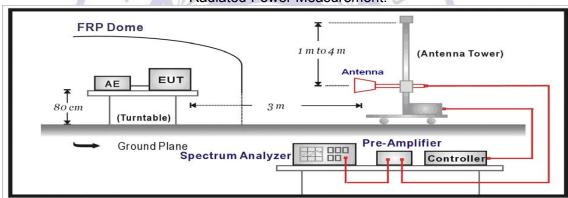
FCC: 7 Watts ERP IC: 11.5 Watts ERIP

TEST CONFIGURATION

Conducted Power Measurement



Radiated Power Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

Conducted Power Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- EUT Communicate with CMW500 then selects a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.

Radiated Power Measurement:

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

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d) The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.

- e) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g) The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h) The maximum signal level detected by the measuring receiver shall be noted.
- i) The transmitter shall be replaced by a substitution antenna.
- j) The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k) The substitution antenna shall be connected to a calibrated signal generator.
- If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m) The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n) The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- o) The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p) The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q) Test site anechoic chamber refer to ANSI C63.4.

TEST RESULTS

Conducted Measurement:

Conducted Measu		-DD Band 5			
TX Channel	RB Size/Offset	Frequency	Average Power [dBm]		
Bandwidth	RB Size/Oliset	(MHz)	QPSK	16QAM	
		824.7	22.99	22.52	
	1 RB low	836.5	21.58	21.12	
		848.3	21.64	20.86	
		824.7	23.41	23.05	
	1 RB high	836.5	22.94	22.56	
1.4 MHz	_	848.3	22.86	22.04	
1.4 1/1012		824.7	22.86	22.12	
	50% RB mid	836.5	21.60	21.11	
		848.3	22.86	22.27	
		824.7	21.87	21.38	
	100% RB	836.5	22.26	21.78	
		848.3	23.26	22.90	
		825.5	21.60	21.05	
	1 RB low	836.5	21.78	21.10	
	Kil	847.5	22.92	22.50	
	1/32	825.5	22.70	21.93	
	1 RB high	836.5	23.46	22.65	
	J), (1)	847.5	21.55	20.95	
3 MHz	/ KX / WAS	825.5	21.87	21.42	
	50% RB mid	836.5	21.96	21.24	
	CO NOT AS	847.5	23.38	22.70	
	THE REST NO.	825.5	23.31	22.49	
	100% RB	836.5	21.57	21.02	
	O TOTAL	847.5	23.05	22.22	
	1 RB low	826.5	23.03	22.36	
		836.5	22.07	21.50	
	13 13/18/18	846.5	22.49	21.83	
	0	826.5	23.01	22.49	
	1 RB high	836.5	23.24	22.45	
		846.5	22.31	21.82	
5 MHz		000 5	22.22	21.72	
	50% RB mid	836.5	23.42	22.59	
	50% RB mid	846.5	23.07	22.66	
	231	826.5	22.88	22.38	
	100% RB	836.5	21.79	21.41	
	100 /0 110	846.5	21.55	20.94	
		829.0	23.23	22.75	
	1 RB low	836.5	22.16	21.41	
	I IO IOW	844.0	22.00	21.31	
		829.0	22.62	21.78	
	1 RB high	836.5	21.80	21.44	
	i No mgn	844.0	21.50	20.87	
10 MHz		829.0	22.09	21.30	
	50% RB mid	836.5	22.68	22.21	
	JU /0 ND IIIIU		23.45	23.10	
-		844.0 829.0		23.10	
	4000/ DD		23.06		
	100% RB	836.5	23.05	22.36	
		844.0	22.65	21.82	

Radiated Measurement:

Remark:

- 1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 5; recorded worst case for each Channel Bandwidth of LTE FDD Band 5.
- 2. $EIRP=P_{Mea}(dBm)-P_{cl}(dB)+P_{Ag}(dB)+G_a(dBi)$

LTE FDD Band 5_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.7	-18.25	2.42	8.45	2.15	36.82	22.45	38.45	16.00	V
836.5	-18.81	2.46	8.45	2.15	36.82	21.85	38.45	16.60	V
848.3	-18.27	2.53	8.36	2.15	36.82	22.23	38.45	16.22	V

LTE FDD Band 5_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.5	-18.83	2.42	8.45	2.15	36.82	21.87	38.45	16.58	V
836.5	-19.10	2.46	8.45	2.15	36.82	21.56	38.45	16.89	V
847.5	-18.76	2.53	8.36	2.15	36.82	21.74	38.45	16.71	V

LTE FDD Band 5_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.5	-19.38	2.42	8.45	2.15	36.82	21.32	38.45	17.13	V
836.5	-19.18	2.46	8.45	2.15	36.82	21.48	38.45	16.97	V
846.5	-18.84	2.53	8.36	2.15	36.82	21.66	38.45	16.79	V

LTE FDD Band 5_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.0	-18.65	2.42	8.45	2.15	36.82	22.05	38.45	16.40	V
836.5	-18.52	2.46	8.45	2.15	36.82	22.14	38.45	16.31	V
844.0	-18.72	2.53	8.36	2.15	36.82	21.78	38.45	16.67	V

LTE FDD Band 5_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
824.7	-20.29	2.42	8.45	2.15	36.82	20.41	38.45	18.04	V
836.5	-20.10	2.46	8.45	2.15	36.82	20.56	38.45	17.89	V
848.3	-20.24	2.53	8.36	2.15	36.82	20.26	38.45	18.19	V

LTE FDD Band 5_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
825.5	-20.12	2.42	8.45	2.15	36.82	20.58	38.45	17.87	V
836.5	-19.92	2.46	8.45	2.15	36.82	20.74	38.45	17.71	V
847.5	-19.81	2.53	8.36	2.15	36.82	20.69	38.45	17.76	V

LTE FDD Band 5_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.5	-19.84	2.42	8.45	2.15	36.82	20.86	38.45	17.59	V
836.5	-19.70	2.46	8.45	2.15	36.82	20.96	38.45	17.49	V
846.5	-19.96	2.53	8.36	2.15	36.82	20.54	38.45	17.91	V

LTE FDD Band 5_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
829.0	-19.82	2.42	8.45	2.15	36.82	20.88	38.45	17.57	V
836.5	-19.92	2.46	8.45	2.15	36.82	20.74	38.45	17.71	V
844.0	-20.24	2.53	8.36	2.15	36.82	20.26	38.45	18.19	V

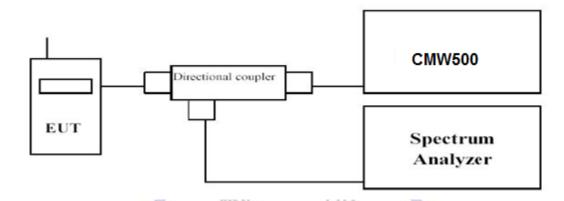


3.2. Peak-to-Average Ratio (PAR)

LIMIT

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

TEST CONFIGURATION



TEST PROCEDURE

- 1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- 2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 4. Set the measurement interval as follows:
 - 1). for continuous transmissions, set to 1 ms,
 - 2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

Testing Tech

5. Record the maximum PAPR level associated with a probability of 0.1%.

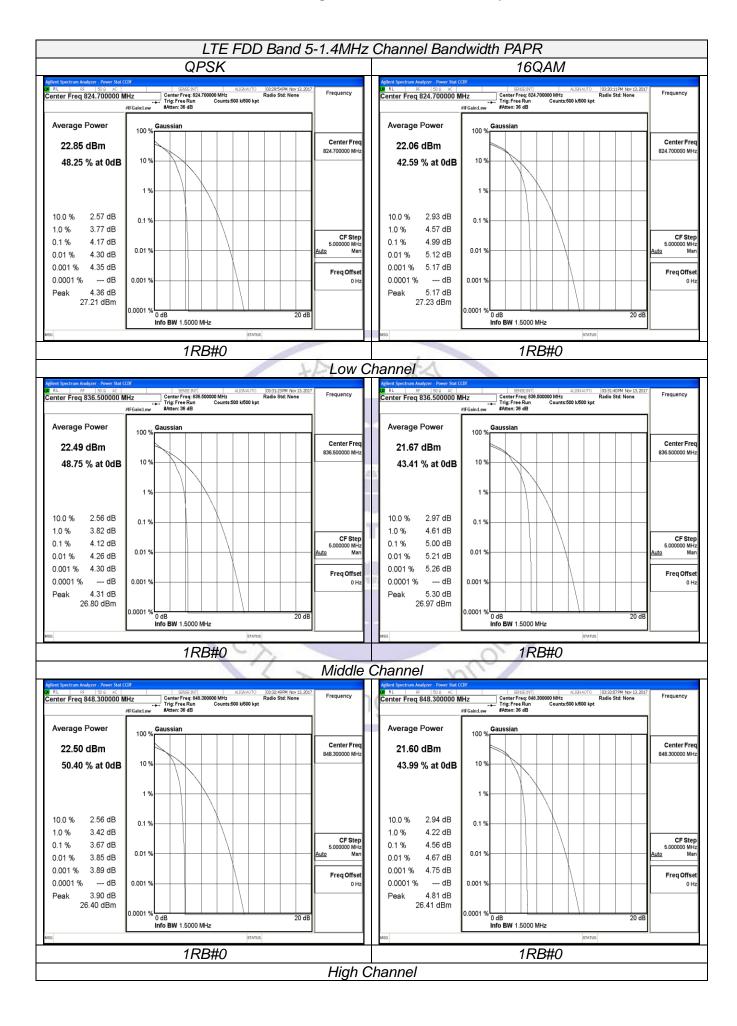
TEST RESULTS

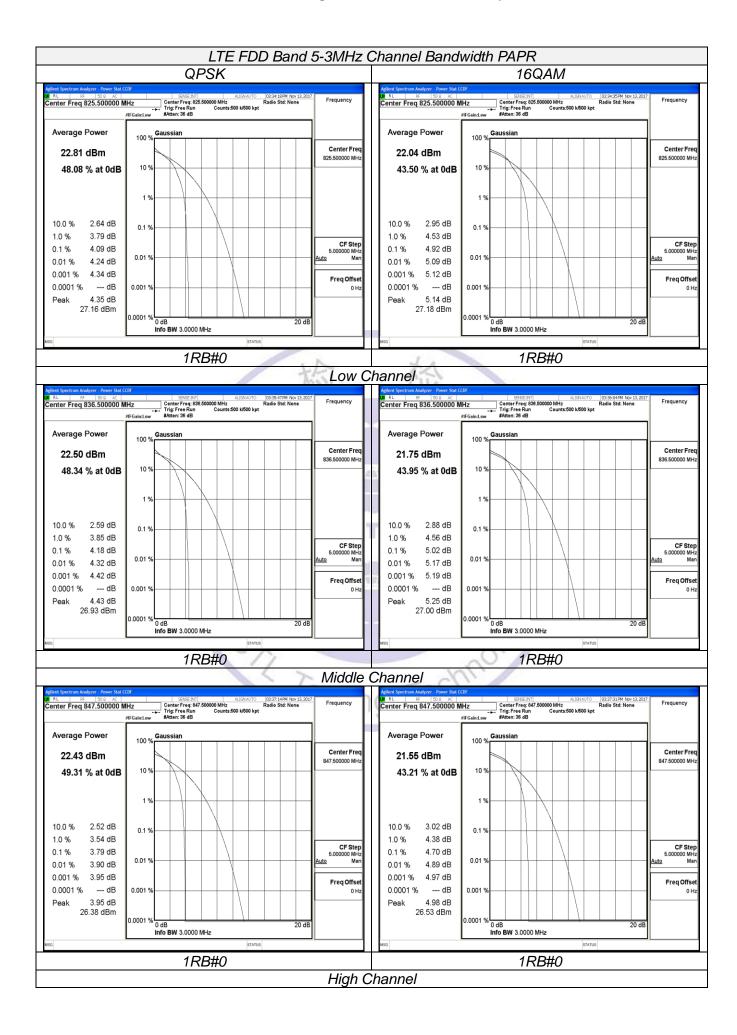
Remark:

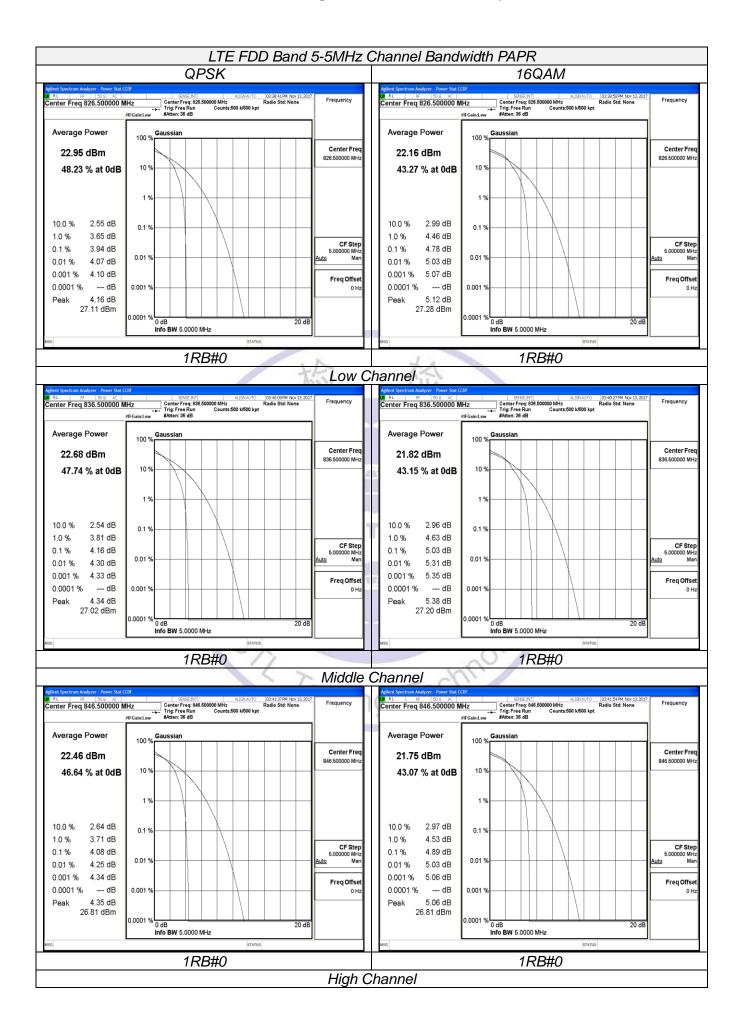
1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 5; recorded worst case for each Channel Bandwidth of LTE FDD Band 5.

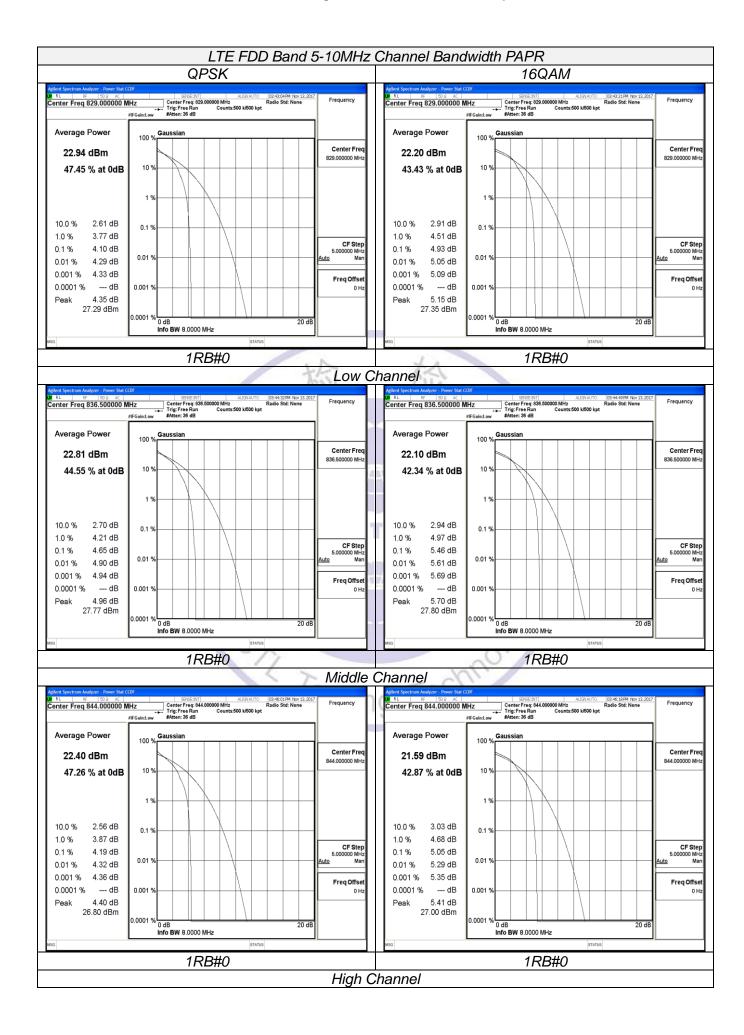
	LTE FDD Band 5									
TX Channel	Frequency	RB Size/Offset	PAPF	R (dB)						
Bandwidth	(MHz)	RB 3ize/Oliset	QPSK	16QAM						
	824.7		4.17	4.99						
1.4 MHz	836.5	1RB#0	4.62	5.00						
	848.3		3.67	7 4.99 2 5.00 7 4.56 9 4.92 8 5.02 9 4.70 4 4.78 6 5.03 8 4.89 0 4.93 5 5.46						
	825.5		4.09	4.92						
3 MHz	836.5	1RB#0	4.18	5.02						
	847.5		3.79	4.70						
	826.5		3.94	4.78						
5 MHz	836.5	1RB#0	4.16	5.03						
	846.5		4.08	4.89						
	829.0		4.10	4.93						
10 MHz	836.5	1RB#0	4.65	5.46						
	844.0	1 41	4.19	5.05						











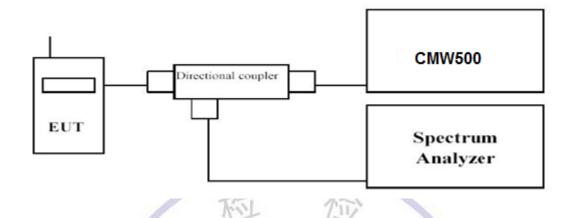
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3.3. Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded.

Set RBW was set to about 1% of emission BW, VBW≥3 times RBW.

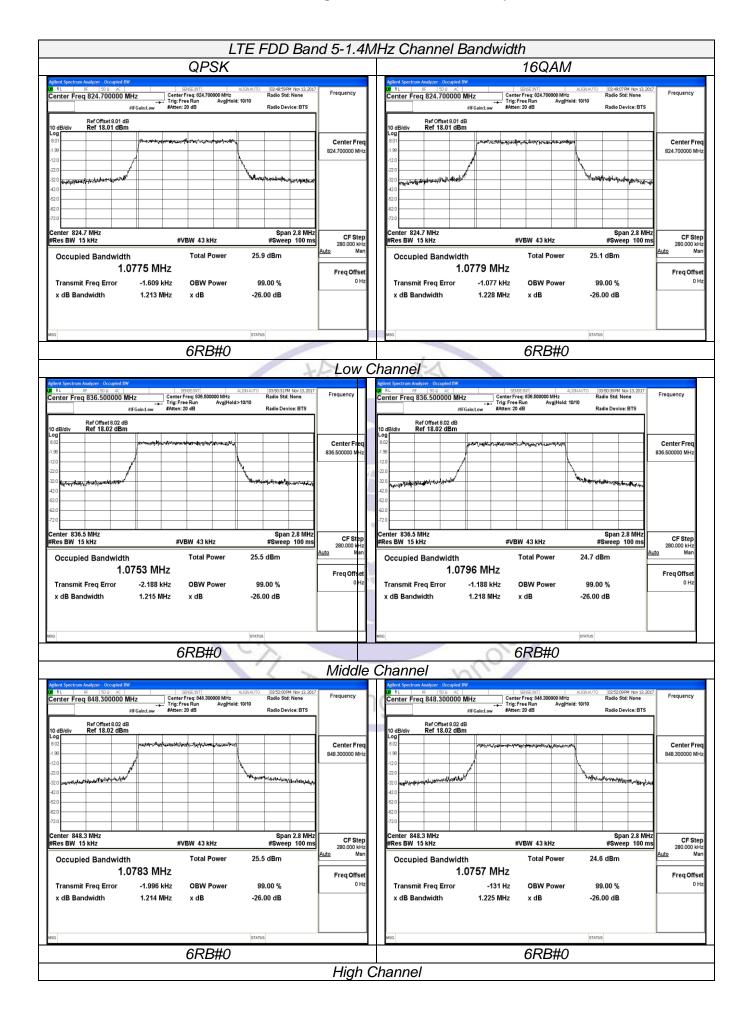
-26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

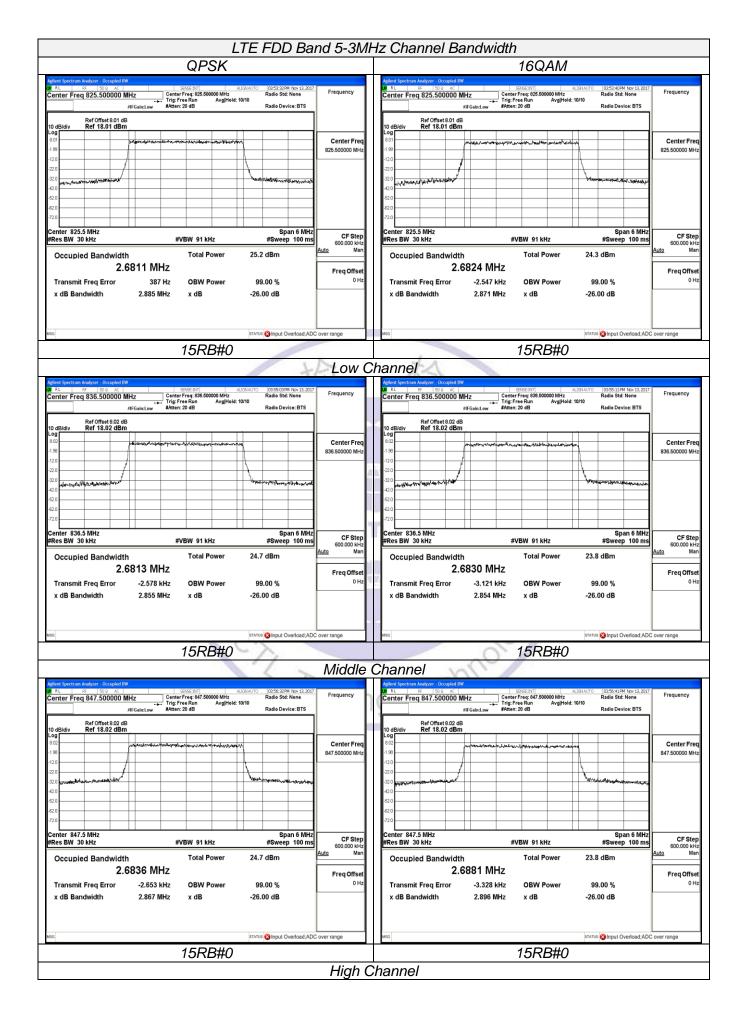
TEST RESULTS

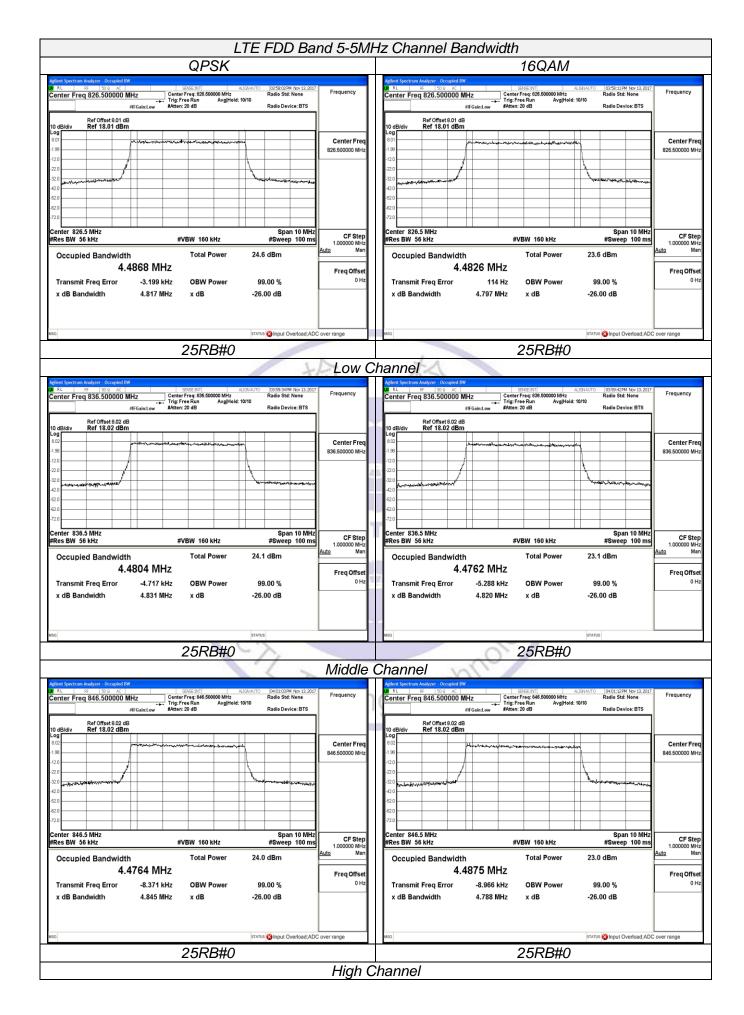
Remark:

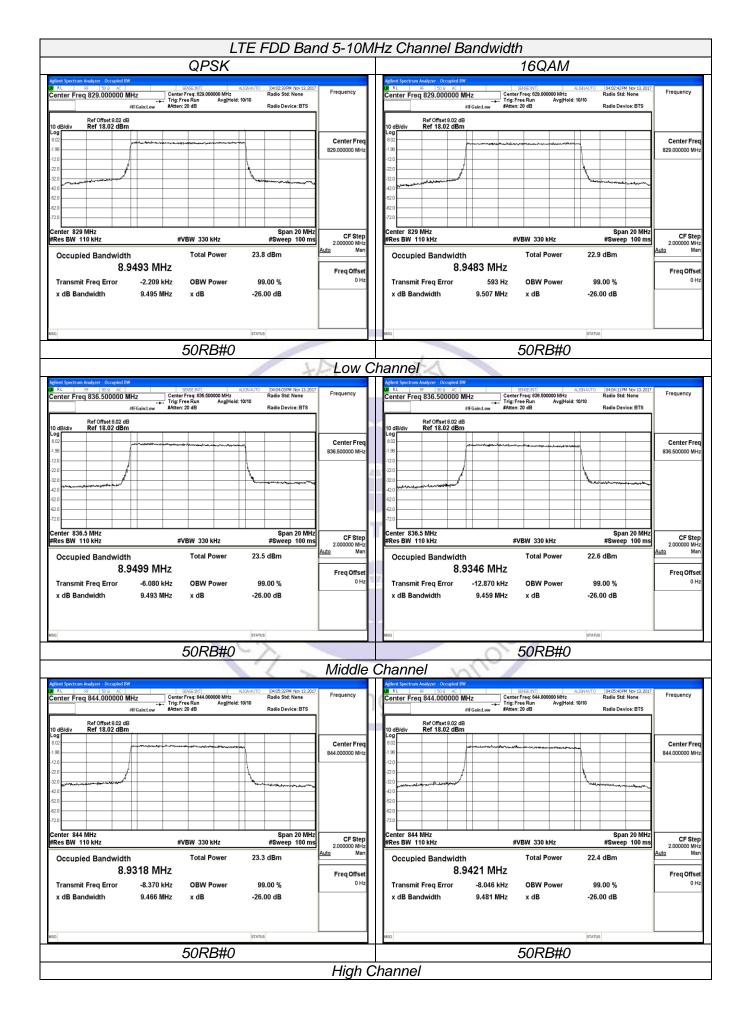
1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 5; recorded worst case for each Channel Bandwidth of LTE FDD Band 5.

	LTE FDD Band 5									
TX		Fraguanay	-26dBc I	Emission	99% O	99% Occupied				
Channel	RB Size/Offset	Frequency (MHz)	bandwid	th (MHz)	bandwidth (MHz)					
Bandwidth		(IVII IZ)	QPSK	16QAM	QPSK	16QAM				
		824.7	1.213	1.228	1.0775	1.0779				
1.4 MHz	6RB#0	836.5	1.215	1.218	1.0753	1.0796				
		848.3	1.214	1.225	1.0783	1.0757				
		825.5	2.885	2.871	2.6811	2.6824				
3 MHz	15RB#0	836.5	2.855	2.854	2.6813	2.6830				
		847.5	2.867	2.896	2.6836	2.6881				
		826.5	4.817	4.797	4.4868	4.4826				
5 MHz	25RB#0	836.5	4.831	4.820	4.4804	4.4762				
		846.5	4.845	4.788	4.4764	4.4875				
		829.0	9.495	9.507	8.9493	8.9483				
10 MHz	50RB#0	836.5	9.493	9.459	8.9499	8.9364				
		844.0	9.466	9.481	8.9318	8.9421				









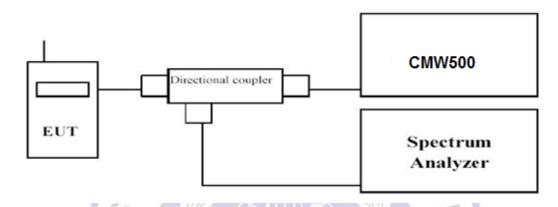
3.4. Band Edge compliance

LIMIT

According to Part §22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



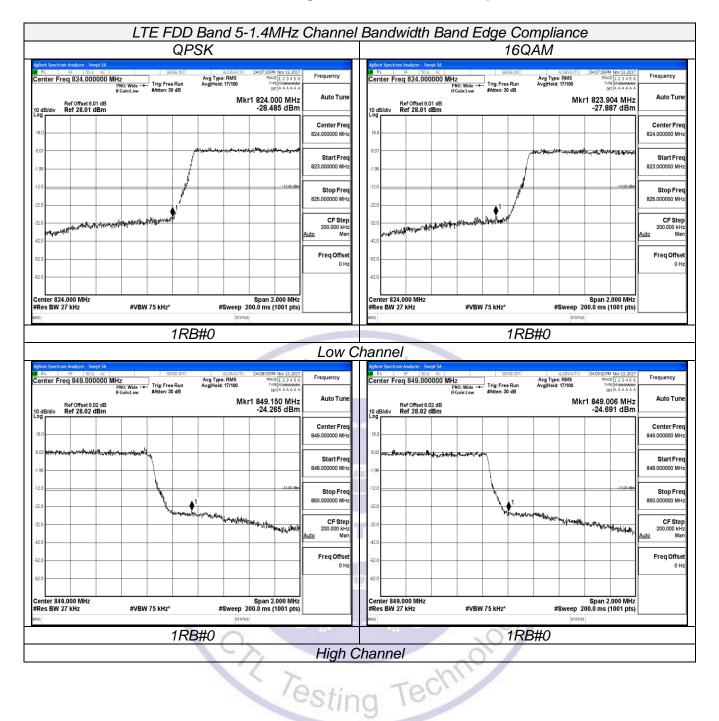
TEST PROCEDURE

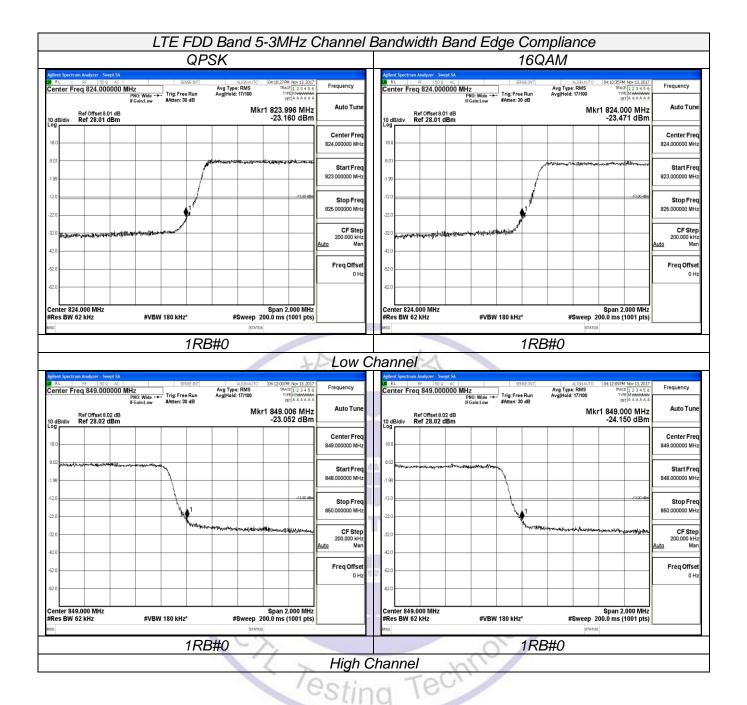
- 1. The transmitter output port was connected to base station.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
- 3. Set EUT at maximum power through base station.
- 4. Select lowest and highest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

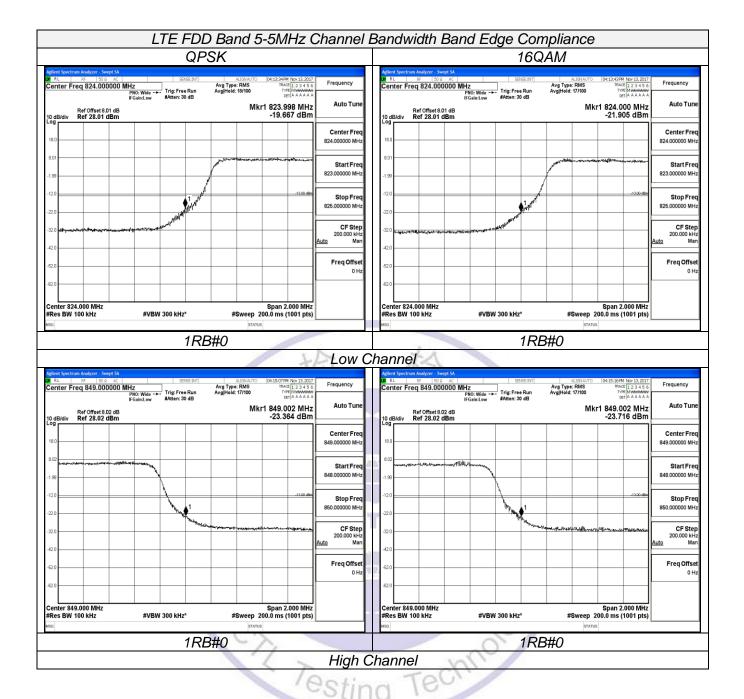
TEST RESULTS

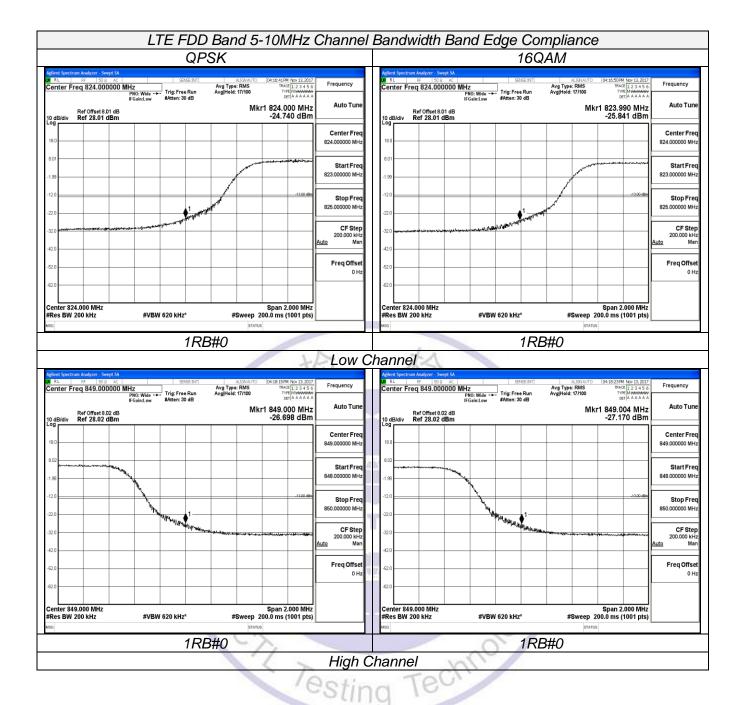
Remark:

 We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 5; recorded worst case for each Channel Bandwidth of LTE FDD Band 5.









3.5. Spurious Emission

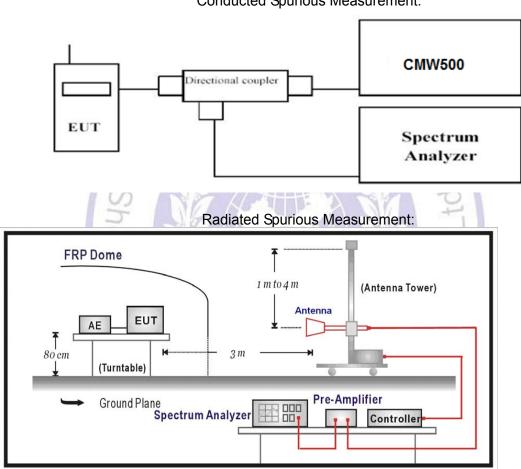
LIMIT

According to Part §22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION

Conducted Spurious Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

Conducted Spurious Measurement:

- a. Place the EUT on a bench and set it in transmitting mode.
- b. Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- c. EUT Communicate with CMW500 then selects a channel for testing.
- d. Add a correction factor to the display of spectrum, and then test.
- e. The resolution bandwidth of the spectrum analyzer was set sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.