

FCC Test Report - LTE Band 26 (part 90)

Report ID : 03360-RF-00022

FCC ID : AZ489FT7078

Tested Model : LEX L10i

Test Date : Nov 16, 2015 ~ Feb 23, 2016

Issued Date : 2 Mar, 2016

Applicant : Motorola Solution Malaysia Sdn Bhd

Address : Innoplex Plot 2A, Medan Bayan lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia

Testing Lab : Motorola Penang Adv. Comm. Laboratory

Lab Address : Motorola Solutions Malaysia Sdn Bhd, Plot 2, Bayan Lepas Technoplex Industrial Park, Mukim 12 S.W.D, 11900 Bayan Lepas, Penang, Malaysia.

FCC Registration: 772092



Prepare By: _____, Date: 2 Mar, 2016

Chan Choon Keet / Engineer / +6048503678 / choonkeet.chan@motorolasolutions.com



Approved By: _____, Date: 2 Mar, 2016

Alex Goh / Senior Staff Engineer / +6042527292 / aikhong.goh@motorolasolutions.com

Table of Contents

1.0.	Summary of Test Results	3
1.1.	Measurement Uncertainty	3
1.2.	Equipment List	3
1.3.	General Information	4
1.4.	Channel number and frequency info	5
1.5.	Test Mode Applicability and Tested Channel Detail	6
1.6.	Conducted RF Output Power	8
1.6.1.	Test Setup.....	8
1.6.2.	Conducted RF Output Power – LTE Band 26 (814-824MHz)	8
1.7.	Peak-to-Average Power Ratio	10
1.7.1.	Test Setup.....	10
1.7.2.	Test Limit.....	10
1.7.3.	Peak To Average Power Ratio – LTE Band 26 (814-824MHz)	10
1.8.	Occupied Bandwidth	13
1.8.1.	Test Setup.....	13
1.8.2.	Test Limit.....	13
1.8.3.	Occupied Bandwidth - LTE Band 26 (814-824MHz)	13
1.9.	Frequency Stability	19
1.9.1.	Test Setup.....	19
1.9.2.	Test Limit.....	19
1.9.3.	Frequency Stability - LTE Band 26 (814-824MHz)	19
1.10.	Band Edge/Emission Mask Conducted Spurious Emission	21
1.10.1.	Test Setup.....	21
1.10.2.	Test Limit	21
1.10.3.	Band Edge/Emission Mask Conducted Spurious Emission - LTE Band 26 (814-824MHz).....	21
1.11.	Conducted Spurious Emission	29
1.11.1.	Test Setup.....	29
1.11.2.	Test Limit	29
1.11.3.	Conducted Spurious Emission - LTE Band 26 (814-824MHz)	29
1.12.	Radiated Spurious Emission.....	34
1.12.1.	Test Setup.....	34
1.12.2.	Test Limit	34
1.12.3.	Radiated Spurious Emission – LTE Band 26 (814-824MHz).....	34
1.13.	Effective Radiated Power (ERP).....	45
1.13.1.	Test Setup.....	45
1.13.2.	Test Limit	45
1.13.3.	Effective Radiated Power (ERP) - LTE Band 26 (814-824MHz)	46

1.0. Summary of Test Results

FCC Clause	Test Item	Result	Remark
2.1046	Conducted RF Output Power	Pass	Meet the requirement of limit
2.1046	Peak-to-Average Power Ratio	Pass	Meet the requirement of limit
2.1049 90.209(7)	Occupied Bandwidth (26dBc, 99%)	Pass	Meet the requirement of limit
2.1055 90.213	Frequency Stability	Pass	Meet the requirement of limit
2.1051 90.691	Band Edge/Emission Mask Conducted Spurious Emission	Pass	Meet the requirement of limit
2.1051	Conducted Spurious Emissions	Pass	Meet the requirement of limit
2.1051	Radiated Spurious Emission	Pass	Meet the requirement of limit
90.635(b)	Effective Radiated Power (ERP)	Pass	Meet the requirement of limit

1.1. Measurement Uncertainty

Measurement	Frequency	Expanded Uncertainty (k=1.96) (±)
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	5.01
	200MHz ~ 1000MHz	5.01
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.01
	18GHz ~ 25GHz	5.01

1.2. Equipment List

Description	Model	Serial Number	Calibration Date	Calibration Due Date
POWER SUPPLY	6623A	2916A01428	3-Apr-15	3-Apr-16
Wideband Radio Communication Tester	CMW500	154550	23-Jun-15	23-Jun-16
SIGNAL ANALYZER	FSV40	101431	29-Apr-15	29-Apr-16
CHAMBER	SH-641	92002651	15-Mar-15	15-Mar-16
DRG HORN FREQ.	SAS-571	566	2-Aug-15	2-Aug-16
PREAMPLIFIER	PAM-0118P	361	NA	NA
BILOG ANTENNA	CBL6112B	2964	23-Apr-14	23-Apr-16
POWER SUPPLY	6031A	3121A02341	12-Jun-14	12-Jun-16
EMI TEST RECEIVER	ESIB26	100336	17-Jun-15	17-Jun-16
MICROWAVE SIGNAL GENERATOR	SMP04	100131	25-Jun-15	25-Jun-16
SYSTEM CONTROLLER	SC104V	050806-1	NA	NA
TURNTABLE FLUSH MOUNT 2M	FM2011	NA	NA	NA
ANTENNA POSITIONING TOWER	TLT2	NA	NA	NA
TEST RECEIVER	ESIB26	827769/009	16-Jun-15	16-Jun-16
SIGNAL ANALYZER	FSV40	101103	25-Jun-15	25-Jun-16
5m Semi-anechoic Chamber	S800-HX	J2308	29-Apr-15	29-Apr-16
BILOG ANTENNA	CBL6112B	2863	24-Jul-15	24-Jul-16
DATA LOGGER	TM320	12249289	12-Apr-15	12-Apr-16
BILOG ANTENNA	CBL6112D	25516	23-Apr-15	23-Apr-16

1.3. General Information

General Description of EUT

General Description of ECF			
Product	Smart phone		
Brand	Motorola Solutions		
Test Model	LEX L10i		
Power Supply Rating	3.7Vdc (Battery), 5Vdc (Adapter)		
Mode of operation	LTE Band 26 (part 90)		
Modulation Type	QPSK, 16QAM		
Operating Frequency	LTE Band 26 (part 90)	Channel Bandwidth 1.4MHz	814.7MHz~823.3MHz
		Channel Bandwidth 3MHz	815.5MHz~822.5MHz
		Channel Bandwidth 5MHz	816.5MHz~821.5MHz
		Channel Bandwidth 10MHz	819.0MHz
Max. ERP Power	LTE Band 26 (part 90) QPSK	Channel Bandwidth 1.4MHz	17.42dBm
		Channel Bandwidth 3MHz	16.48dBm
		Channel Bandwidth 5MHz	17.09dBm
		Channel Bandwidth 10MHz	12.41dBm
	LTE Band 26 (part 90) 16QAM	Channel Bandwidth 1.4MHz	15.42dBm
		Channel Bandwidth 3MHz	15.37dBm
		Channel Bandwidth 5MHz	16.17dBm
		Channel Bandwidth 10MHz	16.06dBm
Antenna Type	LTE Band 26 (part 90)	Inverted-L Monopole with -0.4 to -2.2dBi gain	
SW Version	LEXL10-INT-D17		
HW Version	Rev A		

Note:

1. The EUT contains following accessory devices and data cable.

Item	Brand	Model or P/N	Specification
Rechargeable Lithium ion battery	MOTOROLA	PMNN4472A	3.7Vdc, 2340mAh, 8.7Wh
Rechargeable Lithium ion battery	MOTOROLA	PMNN4475A	3.7Vdc, 4560mAh, 16.9Wh
ITE Power Supply	MOTOROLA	HKTN4009A	I/P: 100-240Vac, 50-60Hz, 0.2A O/P: 5Vdc, 1.2A
USB cable (CABLE: LEX USB SYNC AND CHARGE)	N/A	CB000262A01	-
Holster	N/A	HKLN4618A	-

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.

NO.	Product	Brand	Model No.	Serial No.	FCC ID
1	Wideband Radio Communication Tester	R&S	CMW500	154550	NA

NO.	Signal Cable Description of The above Support Units
1	NA

Note:

1. All power cords of the above support units are non-shielded.
2. Item 1 acted as a communication partner to transfer data.

EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 90

KDB 971168 D01 Power Meas License Digital Systems v02r02

ANSI/TIA/-603-D

NOTE: All test items have been performed and recorded as per the above standards.

1.4. Channel number and frequency info

Band	Bandwidth supported	Available Channel Number	Test Channel Number			Test Channel Frequency (MHz)		
			Low Channel	Mid Channel	High Channel	Low Channel	Mid Channel	High Channel
LTE Band 26 (part 90)	1.4 MHz	26697~26783	26697	26740	26783	814.7	819	823.3
	3 MHz	26705~26775	26705	26740	26775	815.5	819	822.5
	5 MHz	26715~26765	26715	26740	26765	816.5	819	821.5
	10 MHz	26740		26740			819	

1.5. Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.

The Radiated Emission and Effective Radiated Power (ERP) worst case was found when positioned on Z-Plane for LTE band 26 (part 90).

The following channel(s) was (were) selected for the final test as listed below:

LTE Band 26 (part 90)

Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Conducted RF Output Power	26697~ 26783	26697, 26740, 26783	1.4 MHz	QPSK, 16QAM	As per table 1.6.2
	26705~ 26775	26705, 26740, 26775	3 MHz		
	26715~ 26765	26715, 26740, 26765	5 MHz		
	26740	26740	10 MHz		
Peak to Average Power Ratio	26697~ 26783	26697, 26740, 26783	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
	26705~ 26775	26705, 26740, 26775	3 MHz		15 RB / 0 RB Offset
	26715~ 26765	26715, 26740, 26765	5 MHz		25 RB / 0 RB Offset
	26740	26740	10 MHz		50 RB / 0 RB Offset
Occupied Bandwidth	26697~ 26783	26697, 26740, 26783	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
	26705~ 26775	26705, 26740, 26775	3 MHz		15 RB / 0 RB Offset
	26715~ 26765	26715, 26740, 26765	5 MHz		25 RB / 0 RB Offset
	26740	26740	10 MHz		50 RB / 0 RB Offset
Frequency Stability	26697~ 26783	26740	1.4 MHz	QPSK	6 RB / 0 RB Offset
	26705~ 26775	26740	3 MHz		15 RB / 0 RB Offset
	26715~ 26765	26740	5 MHz		25 RB / 0 RB Offset
	26740	26740	10 MHz		50 RB / 0 RB Offset
Band Edge Conducted Spurious Emission	26697~ 26783	26697, 26783	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset 1 RB / 5 RB Offset 6 RB / 0 RB Offset
	26705~ 26775	26705, 26775	3 MHz		1 RB / 0 RB Offset 1 RB / 14 RB Offset 15 RB / 0 RB Offset
	26715~ 26765	26715, 26765	5 MHz		1 RB / 0 RB Offset 1 RB / 24 RB Offset 25 RB / 0 RB Offset
	26740	26740	10 MHz		1 RB / 0 RB Offset 1 RB / 49 RB Offset 50 RB / 0 RB Offset
Conducted Spurious Emission	26697~ 26783	26697, 26740, 26783	1.4 MHz	QPSK	1 RB / 5 RB Offset
	26705~ 26775	26705, 26740, 26775	3 MHz		1 RB / 0 RB Offset
	26715~ 26765	26715, 26740, 26765	5 MHz		1 RB / 0 RB Offset
	26740	26740	10 MHz		1 RB / 0 RB Offset
Radiated Emission	26697~ 26783	26697, 26740, 26783	1.4 MHz	QPSK	1 RB / 5 RB Offset
	26705~ 26775	26705, 26740, 26775	3 MHz		1 RB / 0 RB Offset
	26715~ 26765	26715, 26740, 26765	5 MHz		1 RB / 0 RB Offset
	26740	26740	10 MHz		1 RB / 0 RB Offset
Effective	26697~ 26783	26697, 26740, 26783	1.4 MHz	QPSK,	1 RB / 5 RB Offset

Radiated Power (ERP)	26705~ 26775	26705, 26740, 26775	3 MHz	16QAM	1 RB / 0 RB Offset
	26715~ 26765	26715, 26740, 26765	5 MHz		1 RB / 0 RB Offset
	26740	26740	10 MHz		1 RB / 0 RB Offset

NOTE:

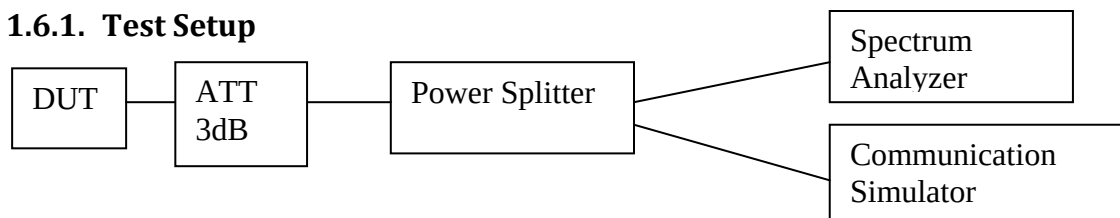
1. The Conducted RF Output Power for QPSK and 16QAM, measured value of QPSK is higher than 16QAM mode. Therefore, only Conducted Spurious Emission and Radiated Emission had been tested under QPSK modes.
2. Band Edge was performed with 1 and full Resource Block at the lowest and highest operating frequency band.
3. The Effective Radiated Power (ERP) was performed based on worst case mode from Conducted RF Output Power in QPSK and 16QAM modulation.
4. Peak to Average and Occupied Bandwidth were performed with full Resource Block which is the worst case.
5. Frequency stability was performed with full Resource Block in QPSK modulation.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
Conducted RF Output Power	25°C, 50% RH	3.7V DC	ckchan
Peak-to-Average Power Ratio	25°C, 50% RH	3.7V DC	ckchan
Occupied Bandwidth	25°C, 50% RH	3.7V DC	ckchan
Frequency Stability	25°C, 50% RH	3.7V DC	ckchan
Band Edge Conducted Spurious Emission	25°C, 50% RH	3.7V DC	ckchan
Conducted Spurious Emission	25°C, 50% RH	3.7V DC	ckchan
Radiated Spurious Emission	25°C, 63.7% RH	3.7V DC	Nazrin/Qawiman
Effective Radiated Power (ERP)	25°C, 63.7% RH	3.7V DC	Nazrin/Qawiman

1.6. Conducted RF Output Power

1.6.1. Test Setup



1. The DUT transmitter output port was connected to communication simulator with above setup.
2. Path loss for the measurement included.
3. Set DUT to transmit maximum power through communication simulator
4. All the measurement were done at low, mid, high channel for each band and different modulation.
5. Record the average power into the test report.

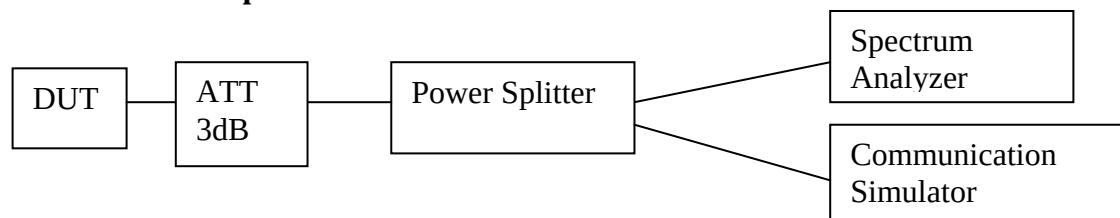
1.6.2. Conducted RF Output Power - LTE Band 26 (814-824MHz)

LTE Band/ BW	RB Size	RB Offset	Conducted Output Power (dBm)					
			QPSK Modulation			16QAM Modulation		
			Low CH 26697	Mid CH 26740	High CH 26783	Low CH 26697	Mid CH 26740	High CH 26783
			814.7 MHz	819 MHz	823.3 MHz	814.7 MHz	819 MHz	823.3 MHz
Band 26 / 1.4MHz	1	0	23.364	23.198	23.092	22.143	22.393	22.229
	1	3	23.331	23.206	23.039	22.136	22.311	22.140
	1	5	23.379	23.199	22.985	22.192	22.387	22.100
	3	0	23.280	23.133	23.152	22.483	22.144	22.109
	3	2	23.288	23.108	23.044	22.439	22.129	21.930
	3	3	23.271	23.149	23.013	22.461	22.130	21.985
	6	0	22.348	22.184	22.086	21.391	21.011	21.065
LTE Band/ BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH 26705	Mid CH 26740	High CH 26775	Low CH 26705	Mid CH 26740	High CH 26775
			815.5 MHz	819 MHz	822.5 MHz	815.5 MHz	819 MHz	822.5 MHz
Band 26 / 3MHz	1	0	23.357	23.166	23.261	22.141	22.326	22.004
	1	7	23.295	23.158	23.116	22.075	22.318	21.947
	1	14	23.340	23.231	22.982	22.082	22.331	21.865
	8	0	22.282	22.153	22.114	21.232	21.174	21.143
	8	4	22.270	22.123	22.119	21.209	21.156	21.098
	8	7	22.298	22.133	22.141	21.214	21.169	21.117
	15	0	22.326	22.209	22.100	21.199	21.177	21.123
LTE Band/ BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH 26715	Mid CH 26740	High CH 26765	Low CH 26715	Mid CH 26740	High CH 26765
			816.5 MHz	819 MHz	821.5 MHz	816.5 MHz	819 MHz	821.5 MHz
Band 26 /	1	0	23.378	23.322	23.034	22.209	22.411	21.954

5MHz	1	13	23.275	23.145	23.073	22.162	22.270	21.892
	1	24	23.198	23.134	22.871	22.102	22.269	21.801
	12	0	22.319	22.195	22.160	21.253	21.176	21.095
	12	6	22.324	22.130	22.133	21.237	21.147	21.063
	12	13	22.223	22.148	22.106	21.120	21.155	21.075
	25	0	22.306	22.190	22.114	21.234	21.173	21.178
LTE Band/ BW	RB Size	RB Offset	QPSK Modulation			16QAM Modulation		
			Low CH xxxx	Mid CH 26740	High CH xxxxx	Low CH xxxx	Mid CH 26740	High CH xxxxx
			1xxx MHz	819 MHz	1xxx MHz	1xxx MHz	819 MHz	1xxx MHz
Band 26 / 10MHz	1	0		23.300			22.127	
	1	25		23.133			21.958	
	1	49		23.110			21.911	
	25	0		22.292			21.338	
	25	13		22.136			21.194	
	25	25		22.169			21.205	
	50	0		22.135			21.105	

1.7. Peak-to-Average Power Ratio

1.7.1. Test Setup



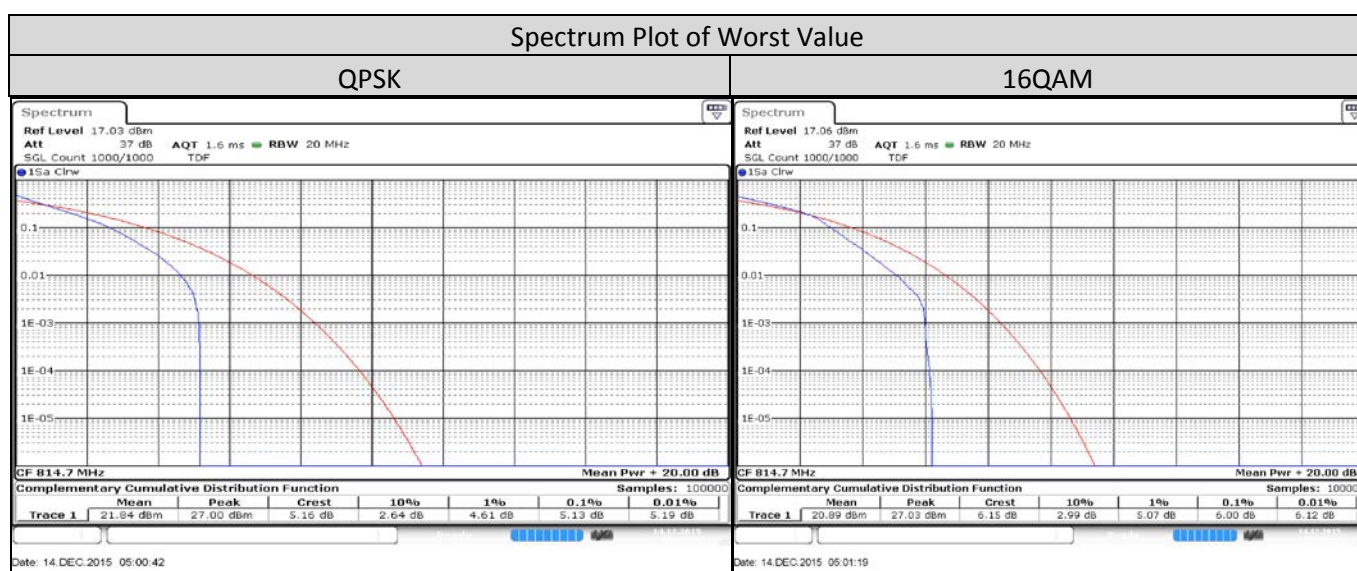
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) Set DUT to transmit maximum power through communication simulator
- 4) Set the CCDF (Complementary Cumulative Distribution Function) option in the spectrum analyzer.
- 5) Spectrum Analyzer setting, RBW = 20MHz.
- 6) Recorded the maximum PAR level associated with a probability of 0.1% as Peak to Average Ratio.
- 7) All the measurements were done at low, mid, high channel for each band and different modulation.

1.7.2. Test Limit

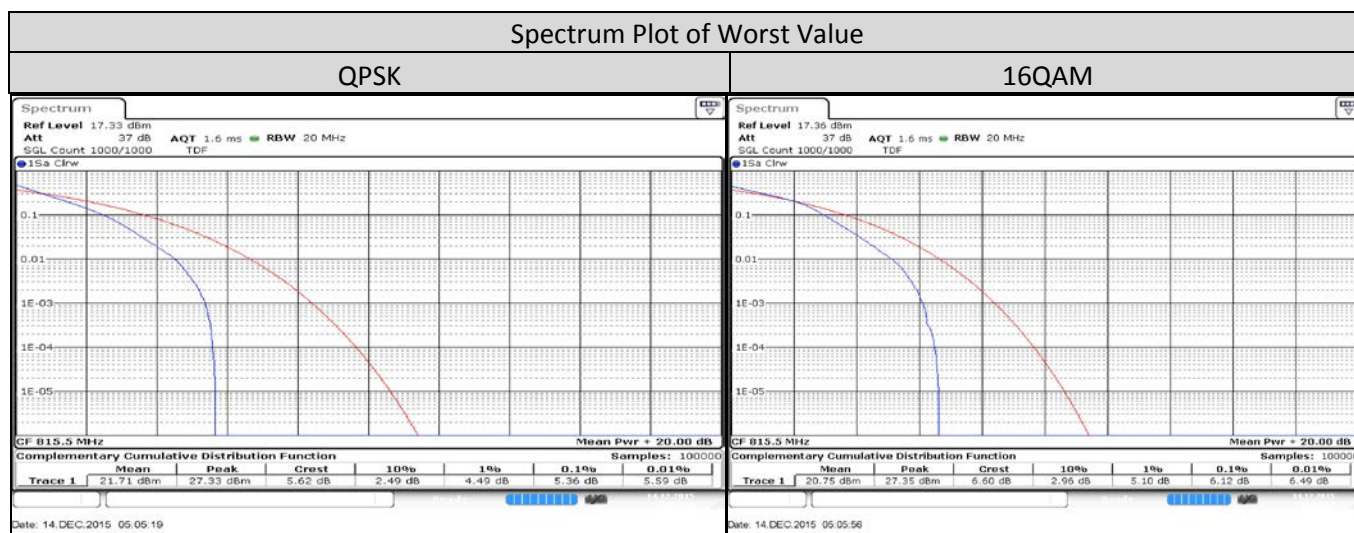
The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

1.7.3. Peak To Average Power Ratio - LTE Band 26 (814-824MHz)

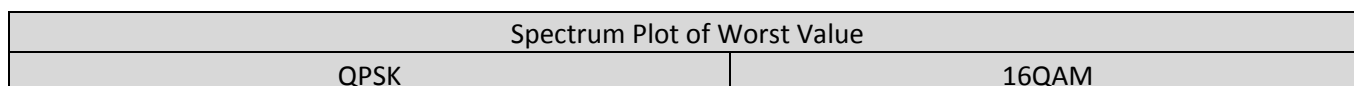
LTE Band/ BW/ RB Size/ RB Offset	Channel Number	Tx Frequency (MHz)	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 26 / 1.4MHz/6/0	Low CH 26697	814.7 MHz	5.13	6.00
	Mid CH 26740	819 MHz	4.41	5.65
	High CH 26783	823.3 MHz	4.67	5.71

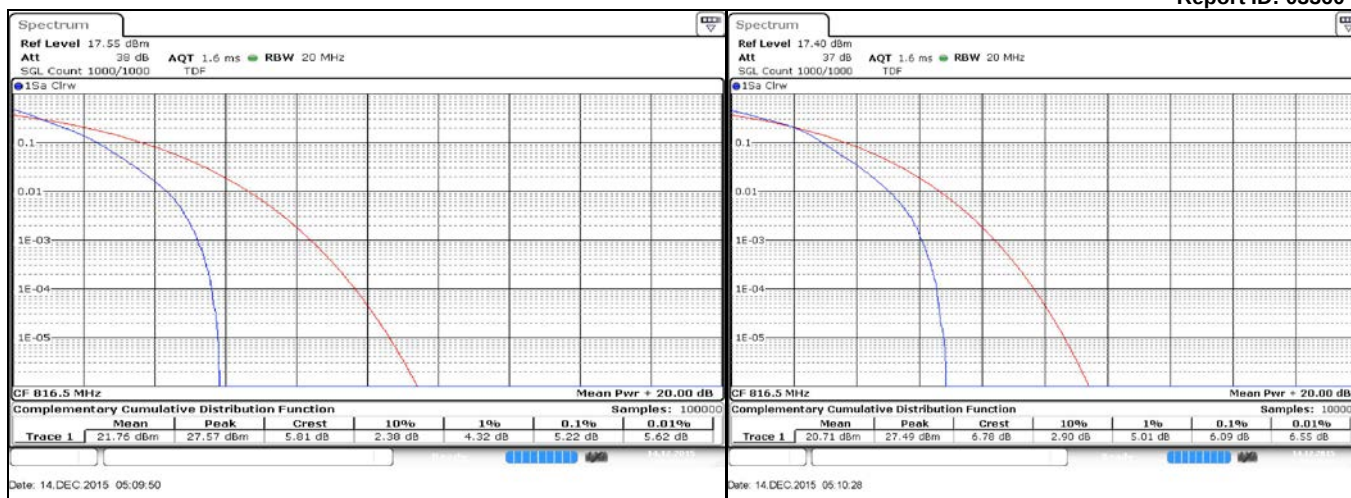


LTE Band/ BW/ RB Size/ RB Offset	Channel Number	Tx Frequency (MHz)	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 26 / 3 MHz/15/0	Low CH 26705	815.5 MHz	5.36	6.12
	Mid CH 26740	819 MHz	4.49	5.39
	High CH 26775	822.5 MHz	4.52	5.51

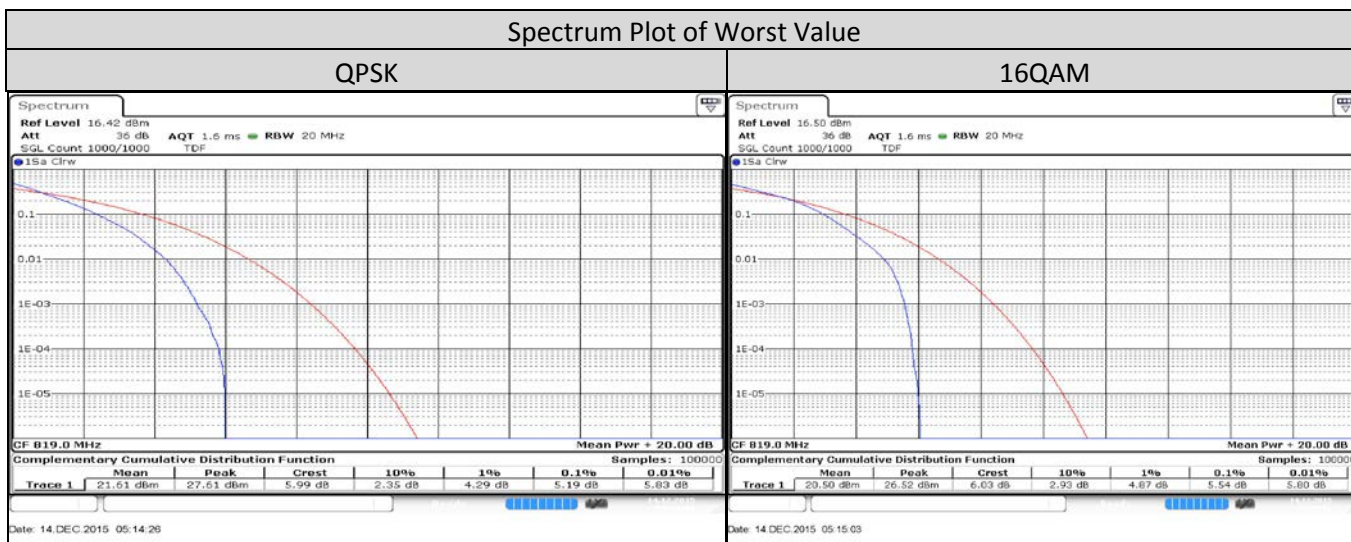


LTE Band/ BW/ RB Size/ RB Offset	Channel Number	Tx Frequency (MHz)	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 26 / 5 MHz/25/0	Low CH 20715	816.5 MHz	5.22	6.09
	Mid CH 26740	819 MHz	4.55	5.59
	High CH 20765	821.5 MHz	4.55	5.57



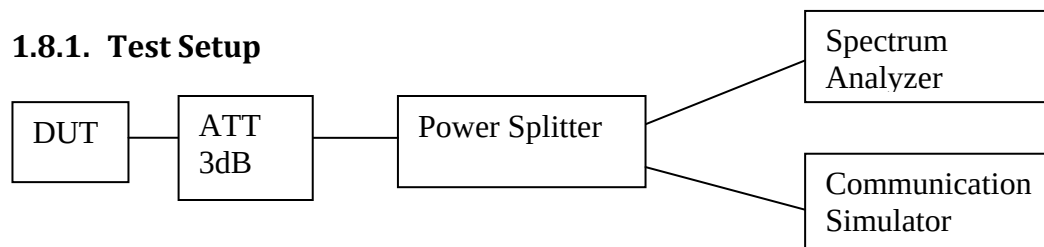


LTE Band/ BW/ RB Size/ RB Offset	Channel Number	Tx Frequency (MHz)	Peak To Average (dB)	
			QPSK Modulation	16QAM Modulation
Band 26 / 10 MHz/50/0	Low CH xxxx	xxx MHz		
	Mid CH 26740	819 MHz	5.19	5.54
	High CH xxxxx	xxx MHz		



1.8. Occupied Bandwidth

1.8.1. Test Setup



- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) For LTE measurement, set DUT to transmit maximum power & full RB size through communication simulator.
- 4) For LTE measurement, set DUT to transmit maximum power through communication simulator.
- 5) Spectrum Analyzer setting, RBW is 1% of OBW and VBW is 3 times of RBW.
- 6) Measure & record -26dBc and 99% occupied bandwidth (BW).
- 7) All the measurement was done at low, mid, high channel for each band and different modulation.

1.8.2. Test Limit

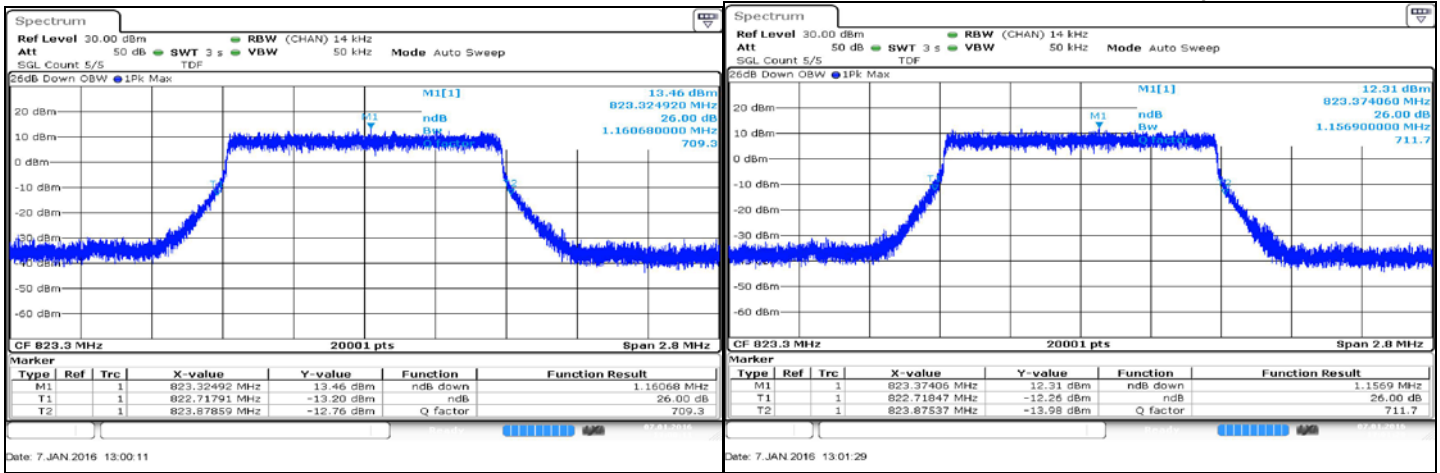
The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

1.8.3. Occupied Bandwidth - LTE Band 26 (814-824MHz)

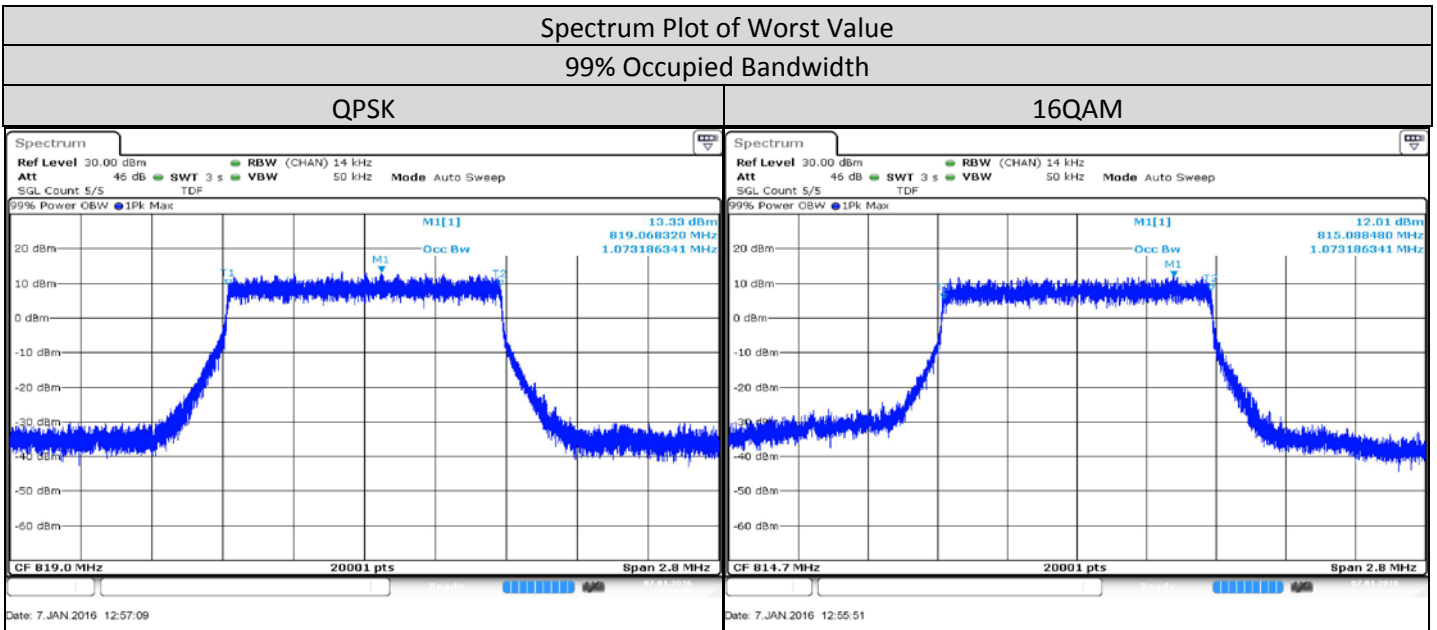
1.4MHz

LTE Band/ BW/ RB Size/ RB Offset	Channel Number	Tx Frequency (MHz)	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 26 / 1.4MHz/6/0	Low CH 26697	814.7 MHz	1.1310	1.1449
	Mid CH 26740	819 MHz	1.1604	1.1433
	High CH 26783	823.3 MHz	1.1607	1.1569

Spectrum Plot of Worst Value	
-26 dBc Bandwidth	
QPSK	16QAM

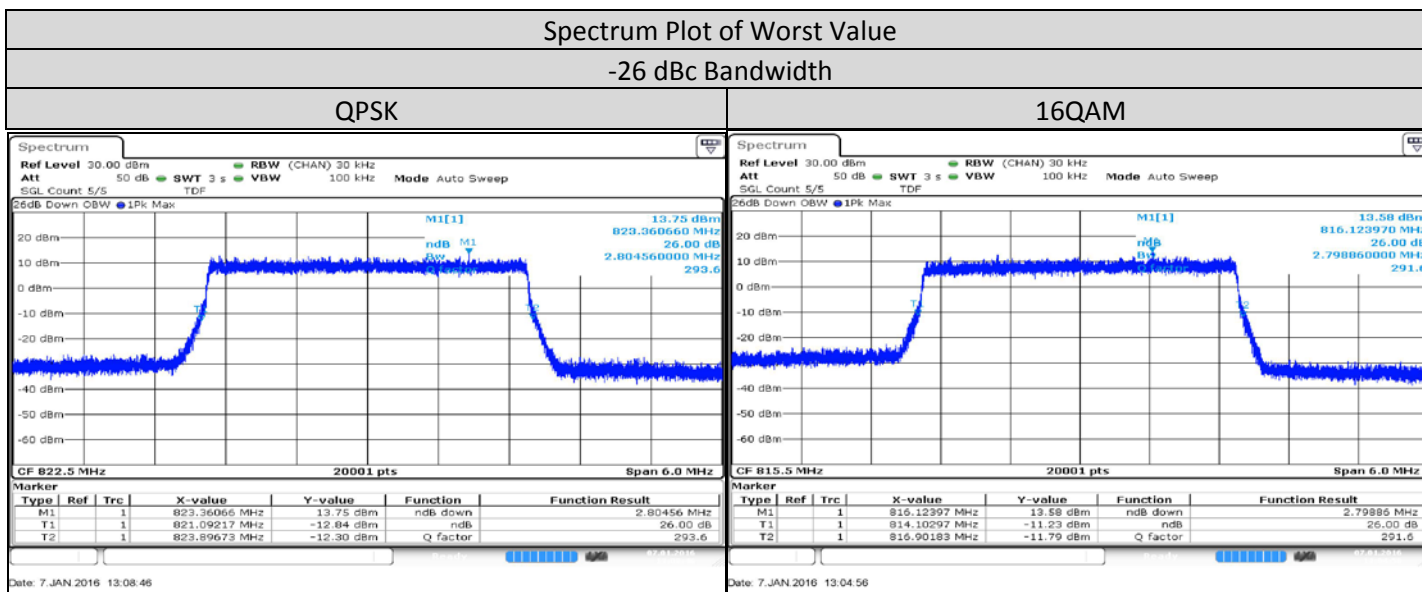


LTE Band/ BW	Channel Number	Tx Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 26 / 1.4MHz/6/0	Low CH 26697	814.7 MHz	1.0704	1.0732
	Mid CH 26740	819 MHz	1.0732	1.0719
	High CH 26783	823.3 MHz	1.0725	1.0728

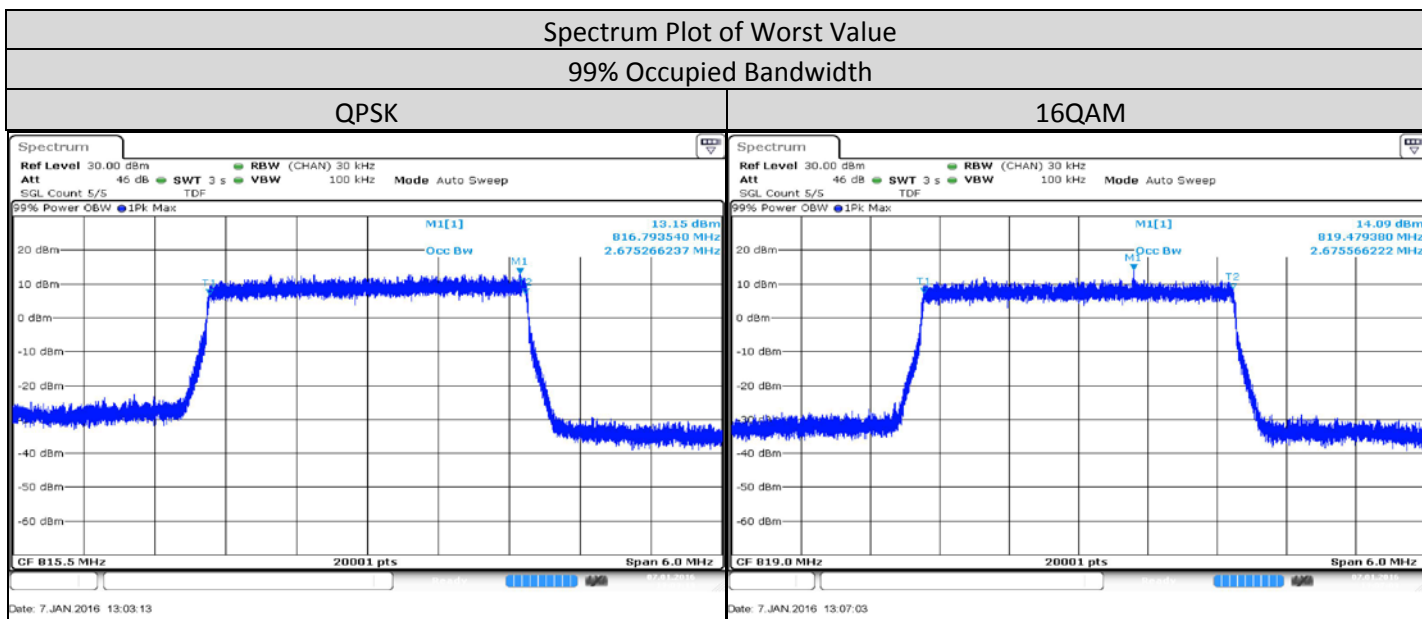


3MHz

LTE Band/ BW/ RB Size/ RB Offset	Channel Number	Tx Frequency (MHz)	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 26 / 3MHz/15/0	Low CH 26705	815.5 MHz	2.7881	2.7989
	Mid CH 26740	819 MHz	2.7896	2.7737
	High CH 26775	822.5 MHz	2.8046	2.7854

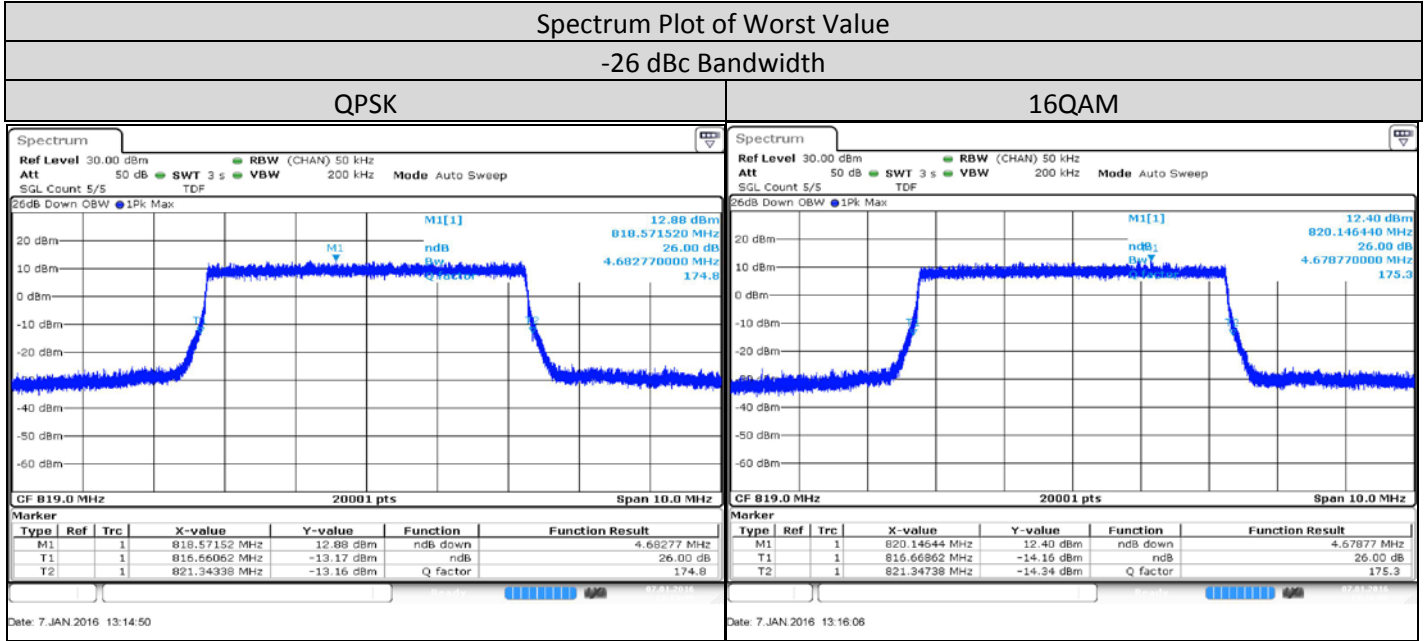


LTE Band/ BW	Channel Number	Tx Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 26 / 3MHz/15/0	Low CH 26705	815.5 MHz	2.6753	2.6747
	Mid CH 26740	819 MHz	2.6717	2.6756
	High CH 26775	822.5 MHz	2.6750	2.6738

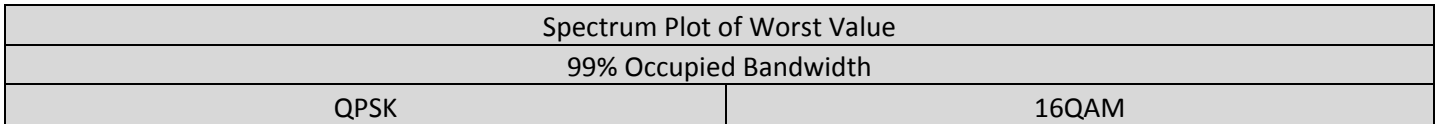


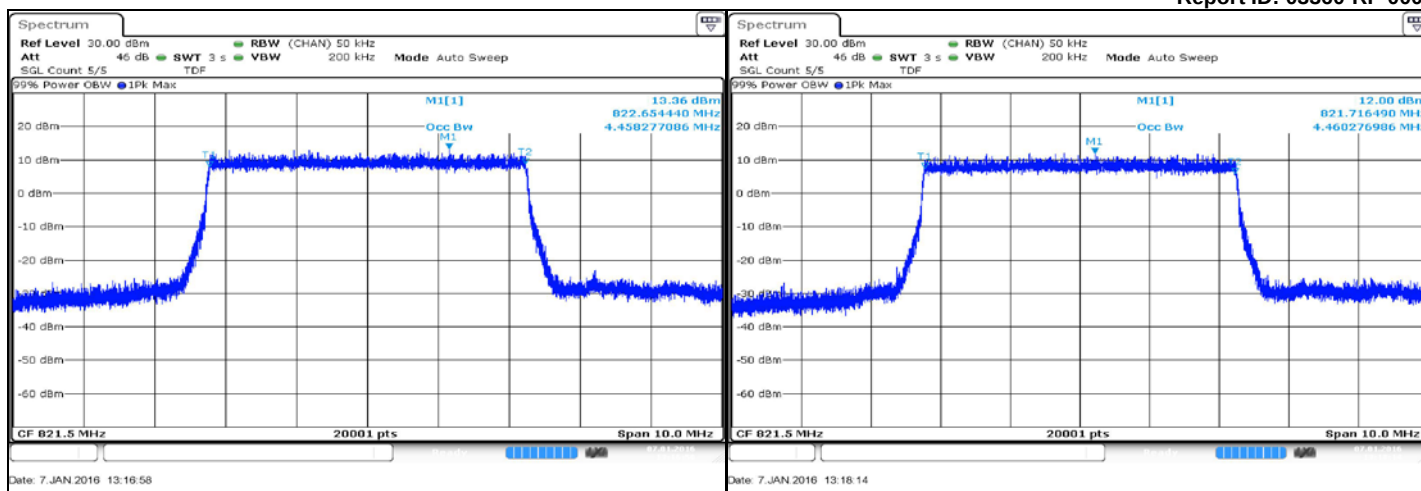
5MHz

LTE Band/ BW	Channel Number	Tx Frequency (MHz)	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 26 / 5MHz/25/0	Low CH 20715	816.5 MHz	4.6483	4.6238
	Mid CH 26740	819 MHz	4.6828	4.6788
	High CH 20765	821.5 MHz	4.6713	4.6558



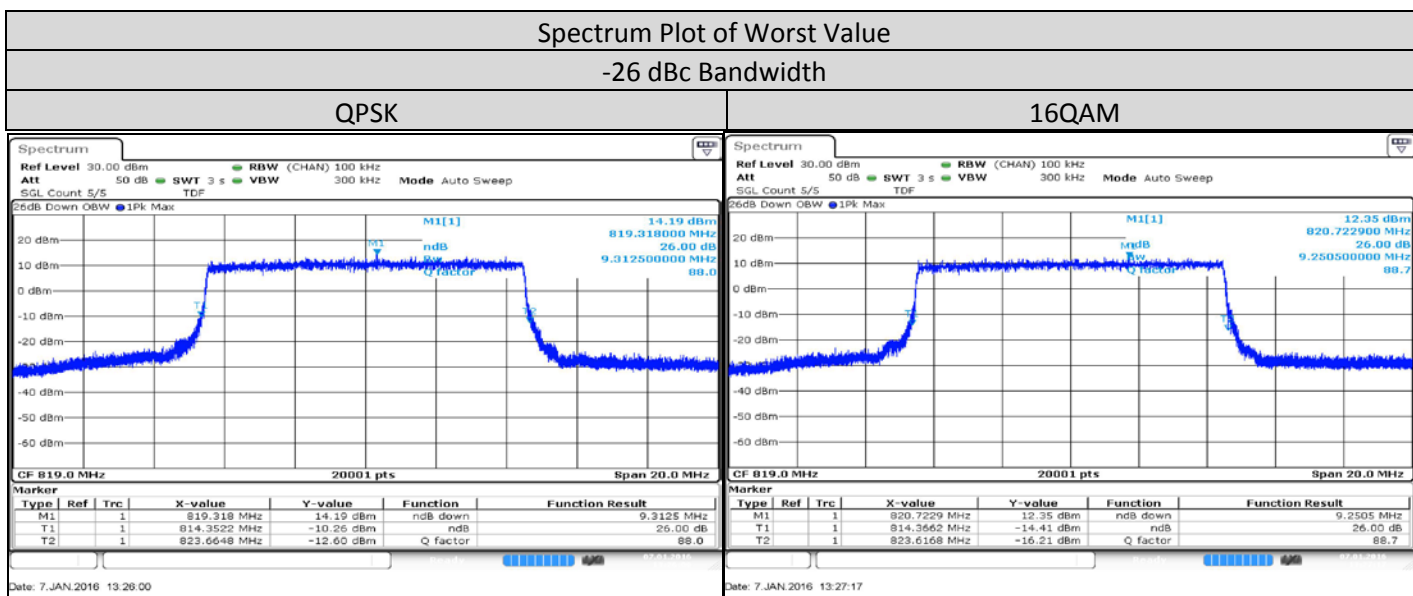
LTE Band/ BW	Channel Number	Tx Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 26 / 5MHz/25/0	Low CH 20715	816.5 MHz	4.4503	4.4498
	Mid CH 26740	819 MHz	4.4553	4.4573
	High CH 20765	821.5 MHz	4.4583	4.4603



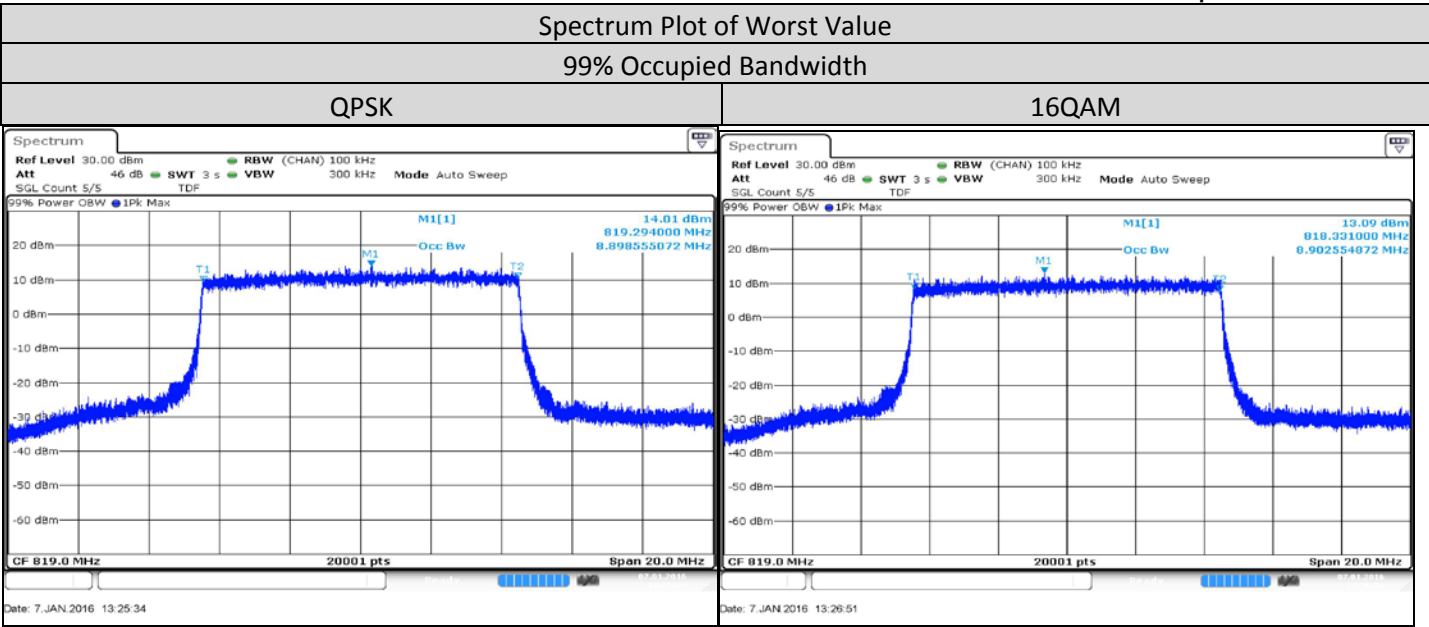


10MHz

LTE Band/ BW	Channel Number	Tx Frequency (MHz)	-26 dBc Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 26 / 10MHz/50/0	Low CH xxxx	xxx MHz		
	Mid CH 26740	819 MHz	9.3125	9.2505
	High CH xxxxx	xxx MHz		

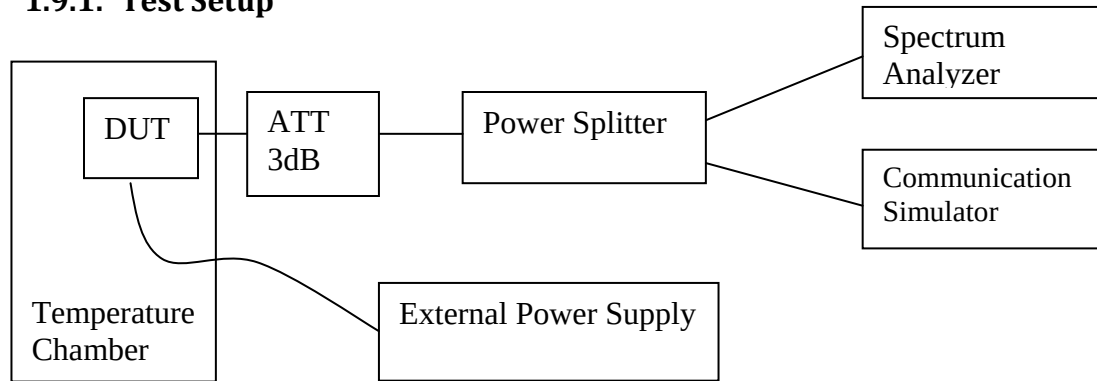


LTE Band/ BW	Channel Number	Tx Frequency (MHz)	99% Occupied Bandwidth (MHz)	
			QPSK Modulation	16QAM Modulation
Band 26 / 10MHz/50/0	Low CH xxxx	xxx MHz		
	Mid CH 26740	819 MHz	8.8986	8.9026
	High CH xxxxx	xxx MHz		



1.9. Frequency Stability

1.9.1. Test Setup



- 1) The DUT is placed in the temperature chamber and DUT is power up by external power supply to control the DC input voltage.
- 2) The temperature chamber could control the temperature and humidity and external power supply could control the test voltage range from minimum to maximum operating voltage.
- 3) Measured frequency error from the communication simulator by vary below step :
 - i. Vary temperature of the temperature chamber from -10 ~ 60 deg C (10 deg C / Step) and set external supply voltage constant at nominal voltage.
 - ii. Vary external supply voltage from minimum to maximum operation voltage support by DUT and set temperature chamber constant at room temp.
- 4) All the measurement was done at mid channel for each band.

1.9.2. Test Limit

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations and over 2 watts output power and also 2 watts or less output power.

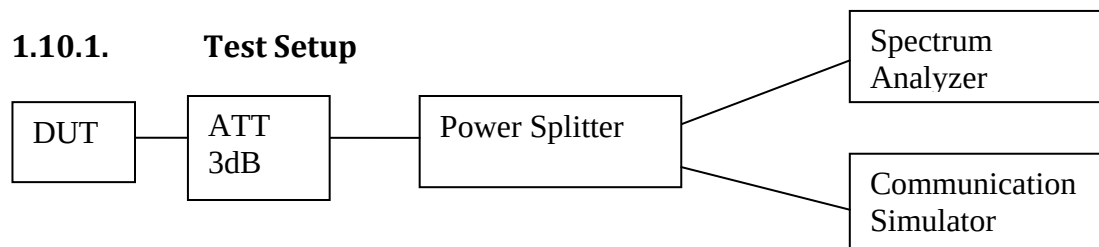
1.9.3. Frequency Stability - LTE Band 26 (814-824MHz)

LTE Band/ Modulation/ RB Size/ RB Offset	Frequency Error VS Temperature						
	Temp (Deg C)	Frequency Error (ppm)					
		1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz
Band 26 QPSK RB Size= 100% RB Offset = 0	60	-0.0072	-0.0058	-0.0062	-0.0062		
	50	-0.0059	-0.0059	-0.0059	-0.0058		
	40	-0.0065	-0.0060	-0.0065	-0.0064		
	30	-0.0071	-0.0062	-0.0057	-0.0067		
	20	-0.0048	-0.0055	-0.0046	-0.0048		
	10	-0.0054	-0.0050	-0.0047	-0.0049		
	0	-0.0064	-0.0045	-0.0051	-0.0051		
	-10	-0.0068	-0.0055	-0.0043	-0.0049		
	-20	-0.0055	-0.0050	-0.0056	-0.0060		
	-30	-0.0067	-0.0068	-0.0065	-0.0056		

LTE Band/ Modulation/ RB Size/ RB Offset	Frequency Error VS Voltage						
	Voltage (V)	Frequency Error (ppm)					
		1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz
Band 26 QPSK RB Size= 100% RB Offset = 0	4.255	-0.0051	-0.0048	0.0059	-0.0063		
	3.7	-0.0046	-0.0053	-0.0053	-0.0054		
	3.5	-0.0057	-0.0112	-0.0047	-0.0060		

1.10. Band Edge/Emission Mask Conducted Spurious Emission

1.10.1. Test Setup



- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) Set DUT to transmit maximum power through communication simulator.
- 4) The band edges of lowest and highest channels with the highest RF powers were measured.
- 5) The center frequency of spectrum is the band edge frequency, RBW is 1~3% of OBW and VBW is 3 times of RBW.
- 6) Record the maximum trace plot into the test report.

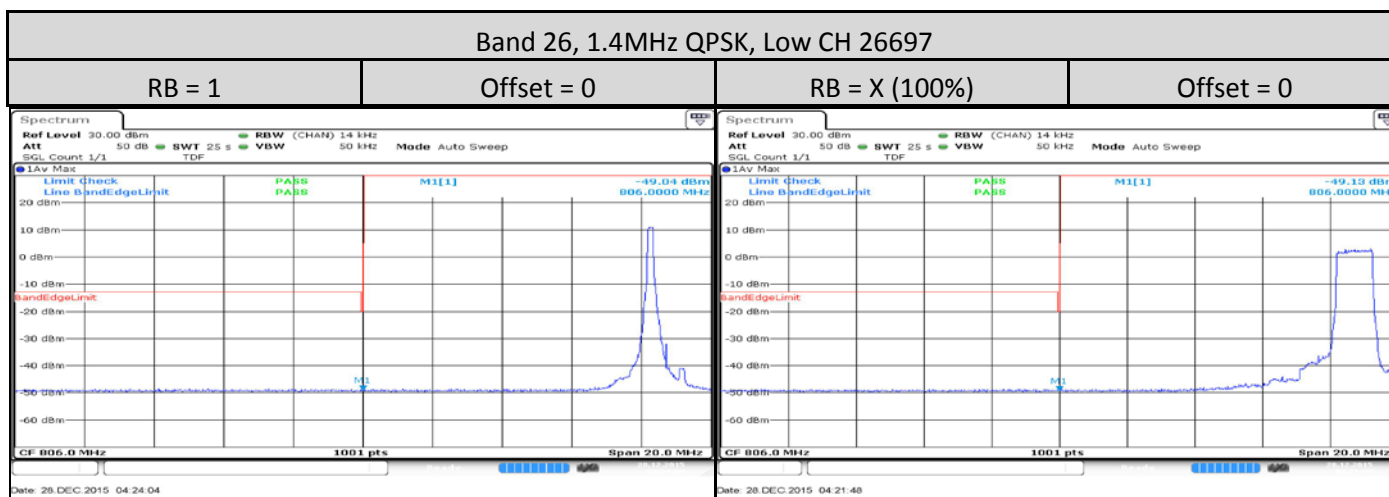
1.10.2. Test Limit

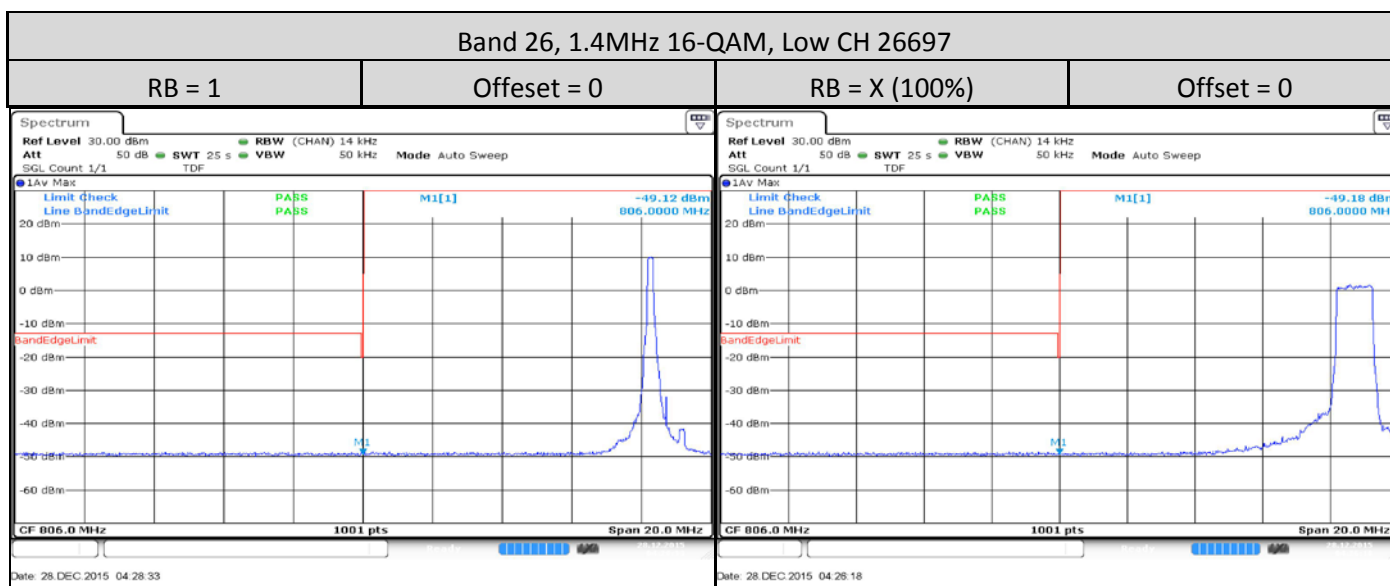
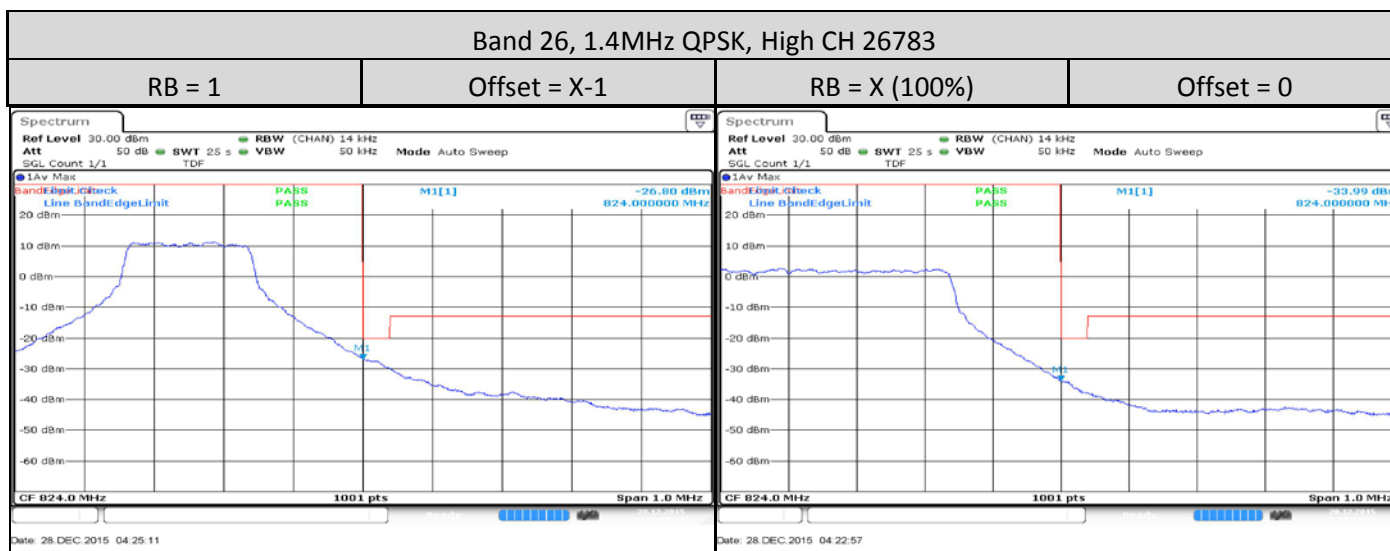
Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

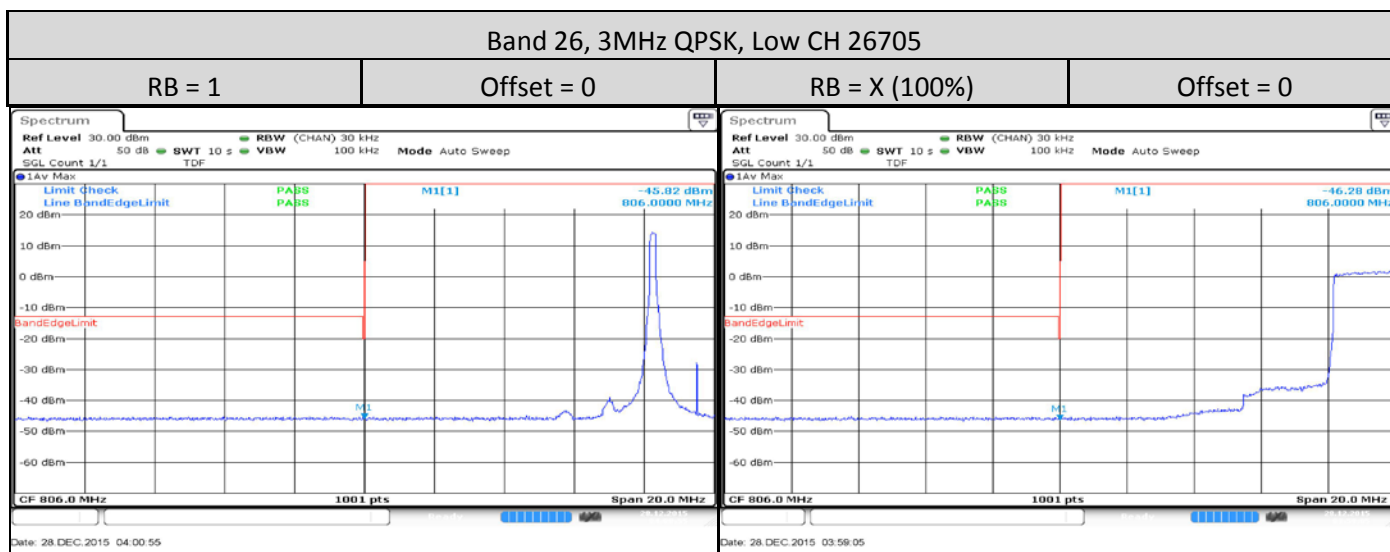
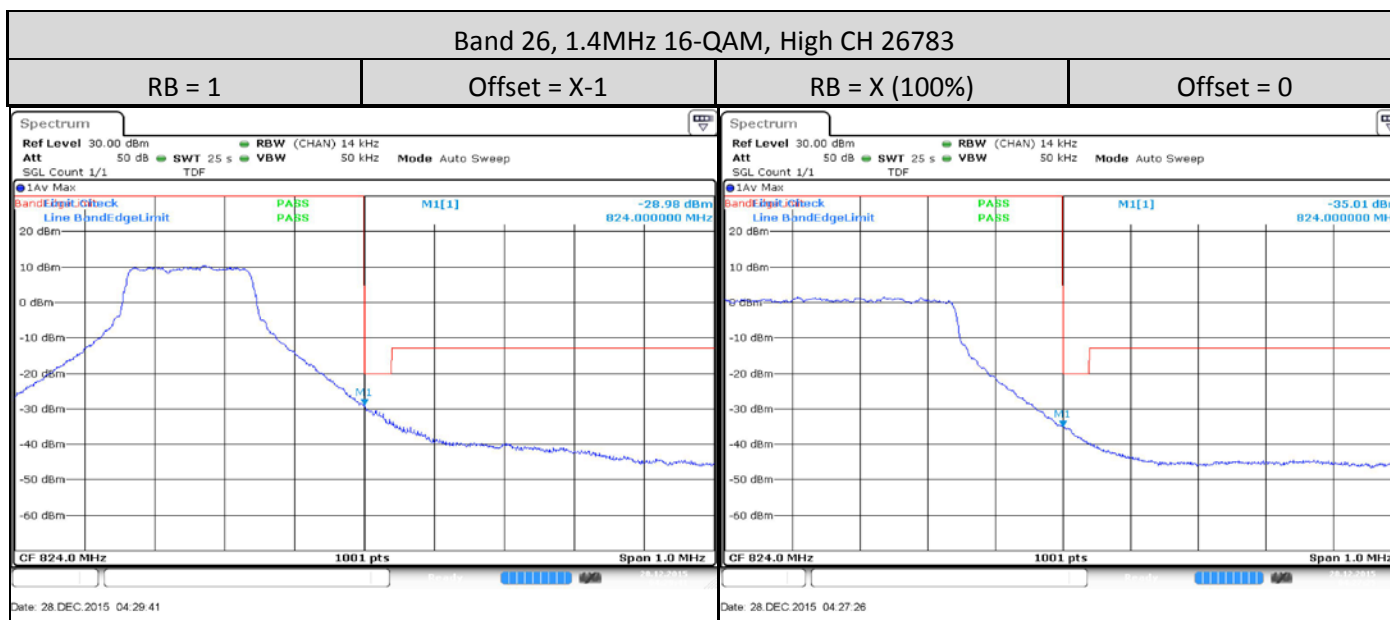
- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

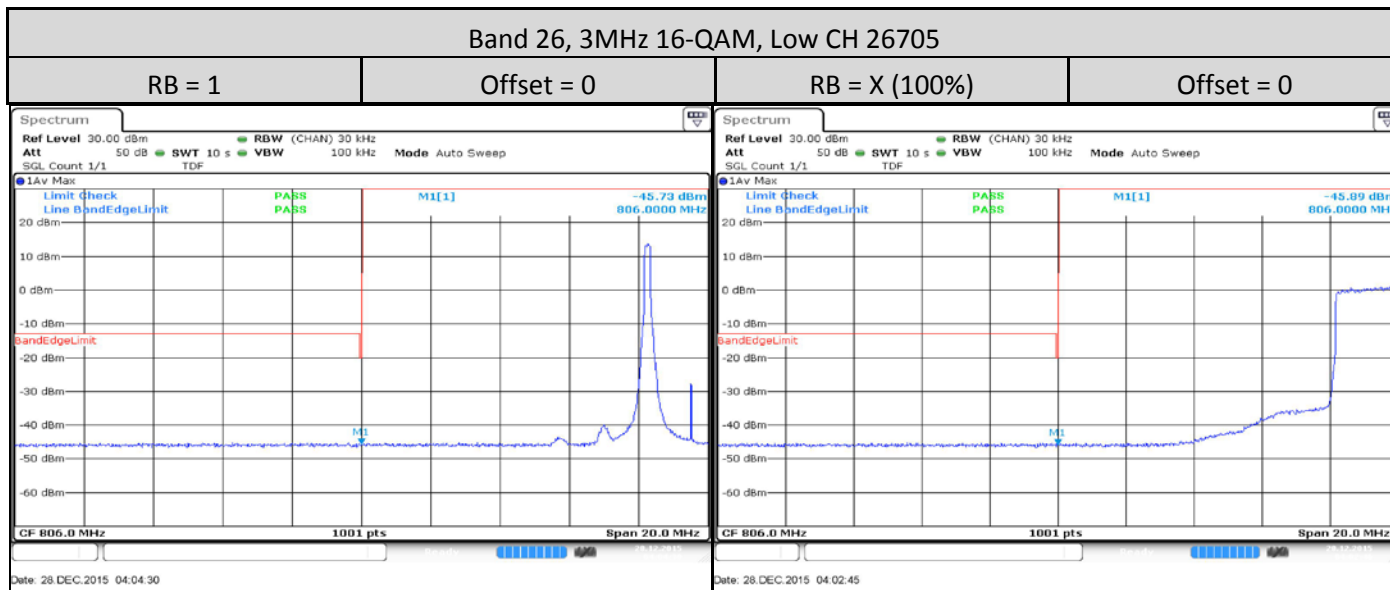
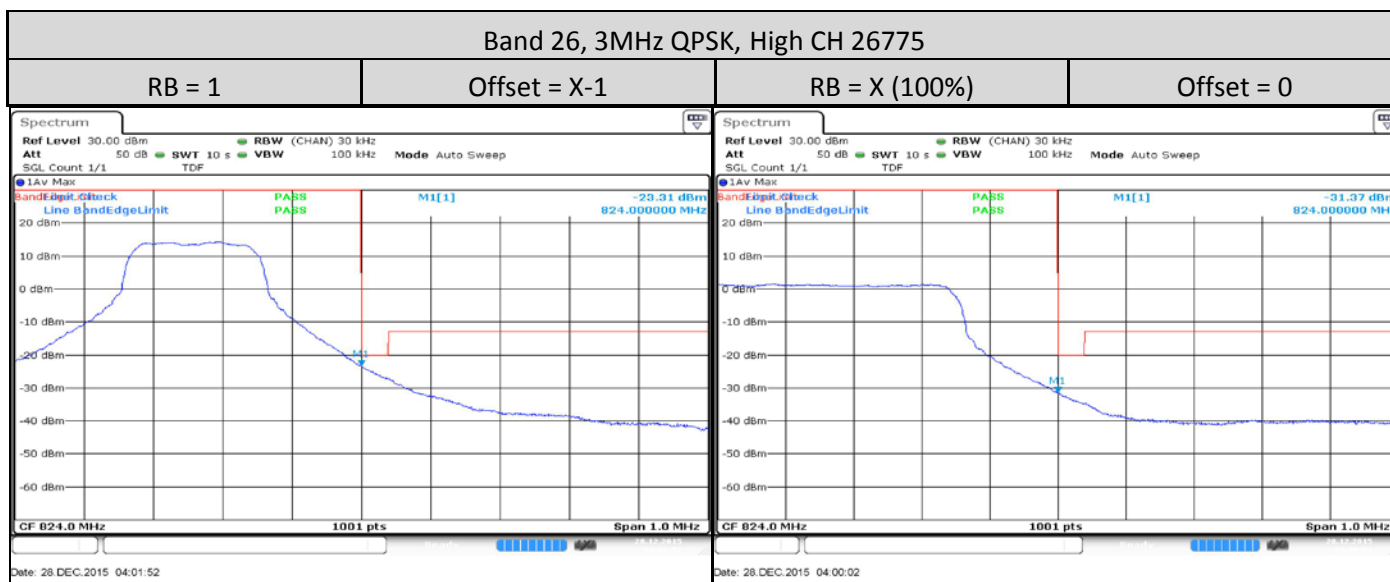
When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

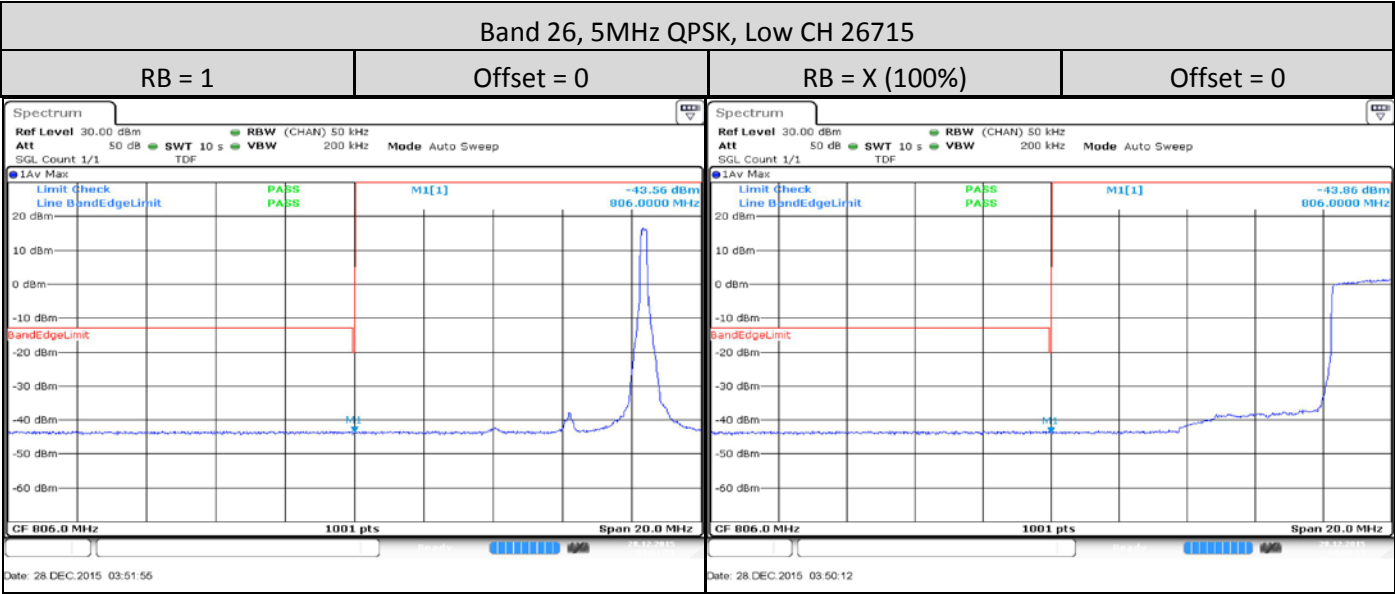
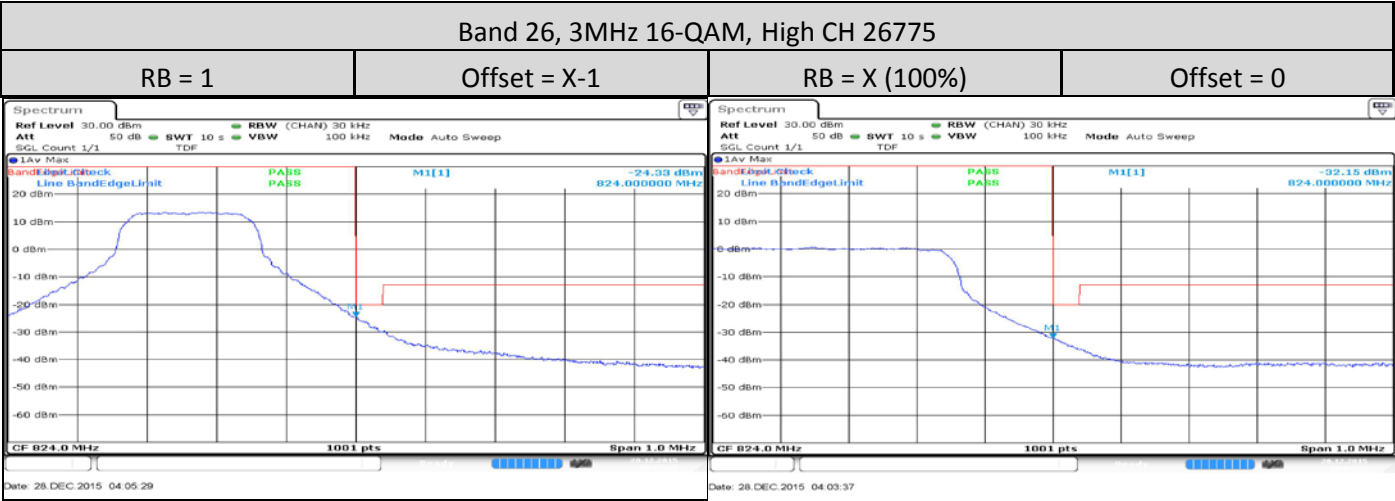
1.10.3. Band Edge/Emission Mask Conducted Spurious Emission - LTE Band 26 (814-824MHz)

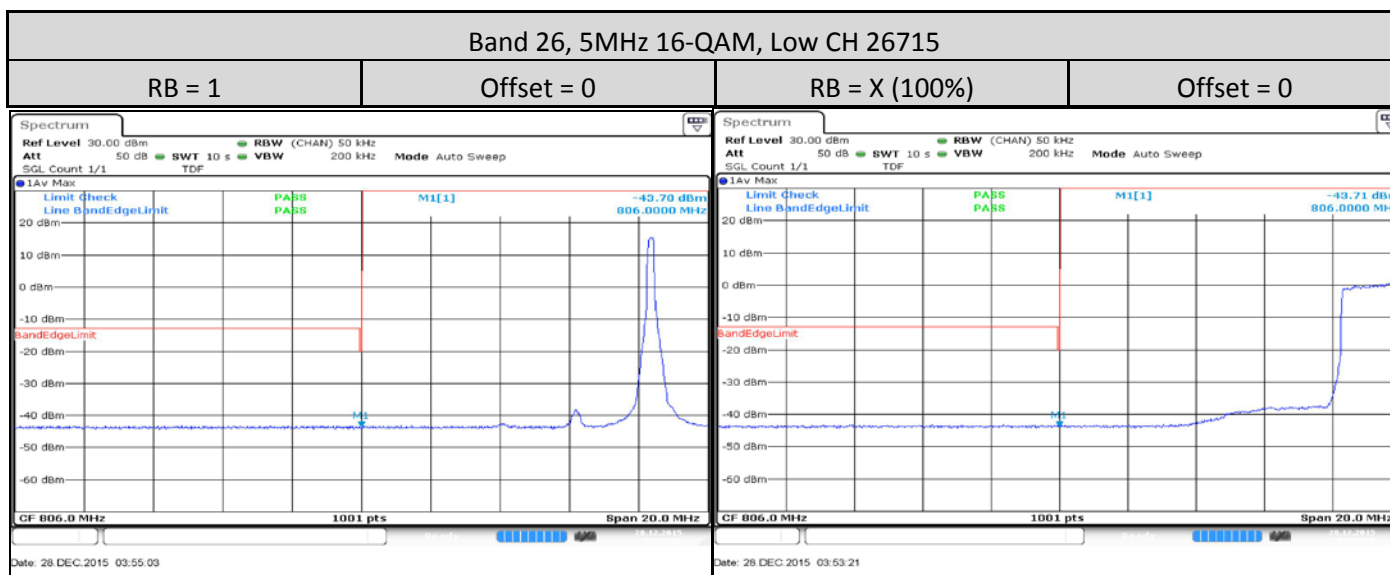
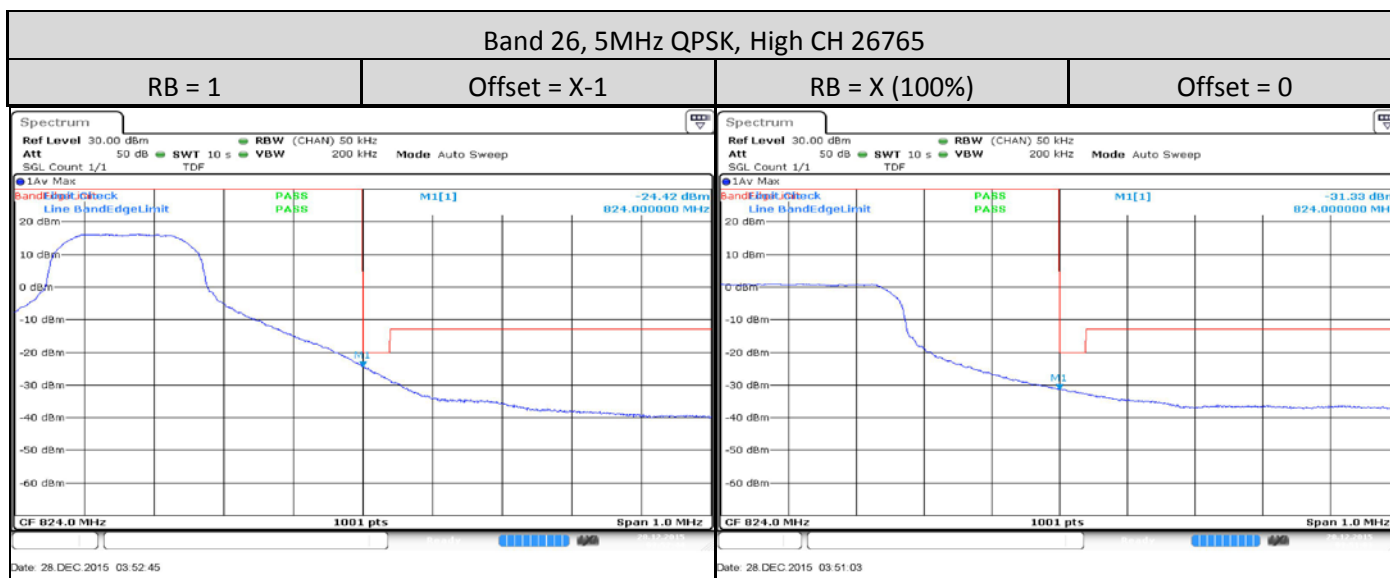


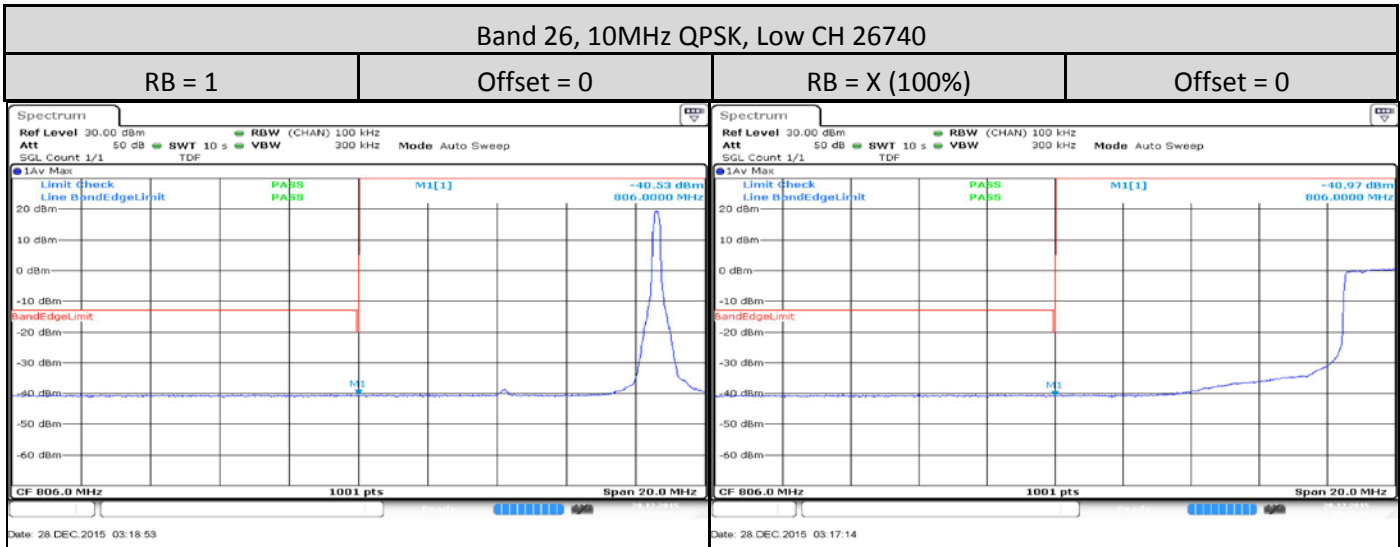
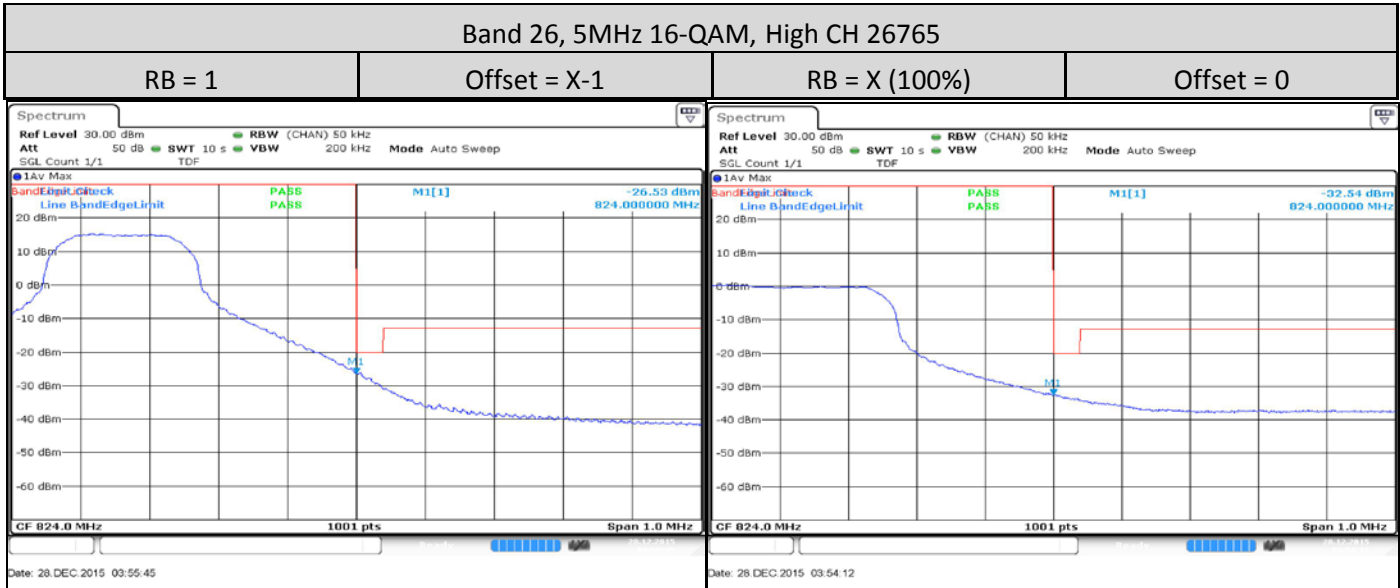


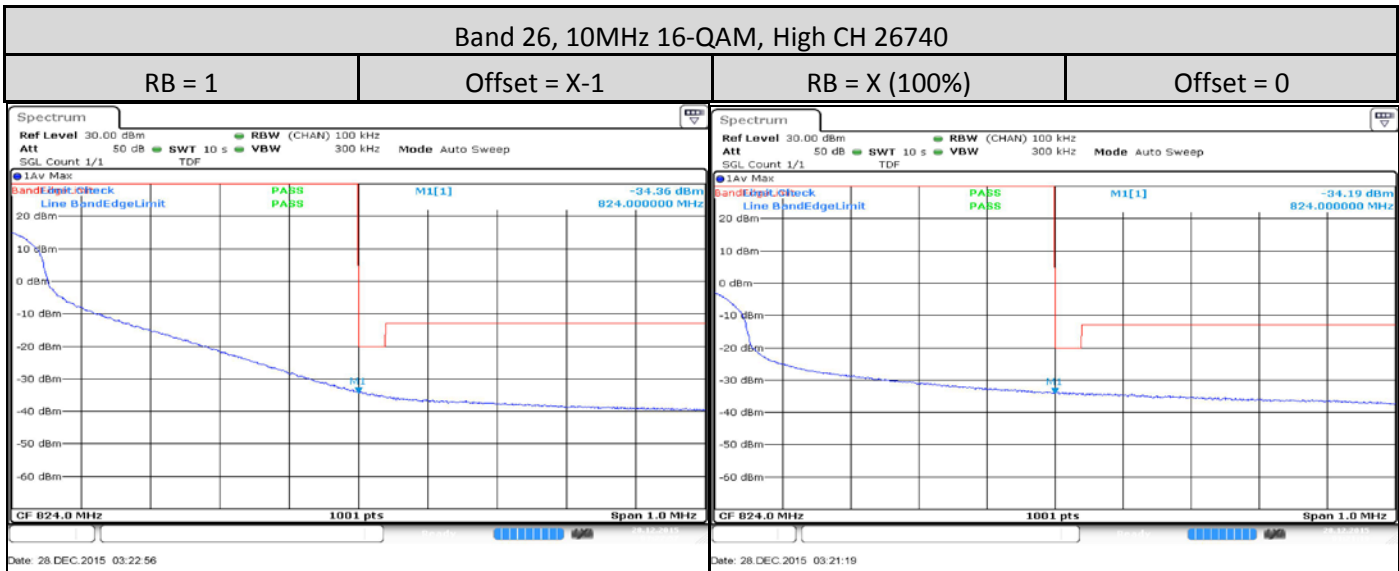
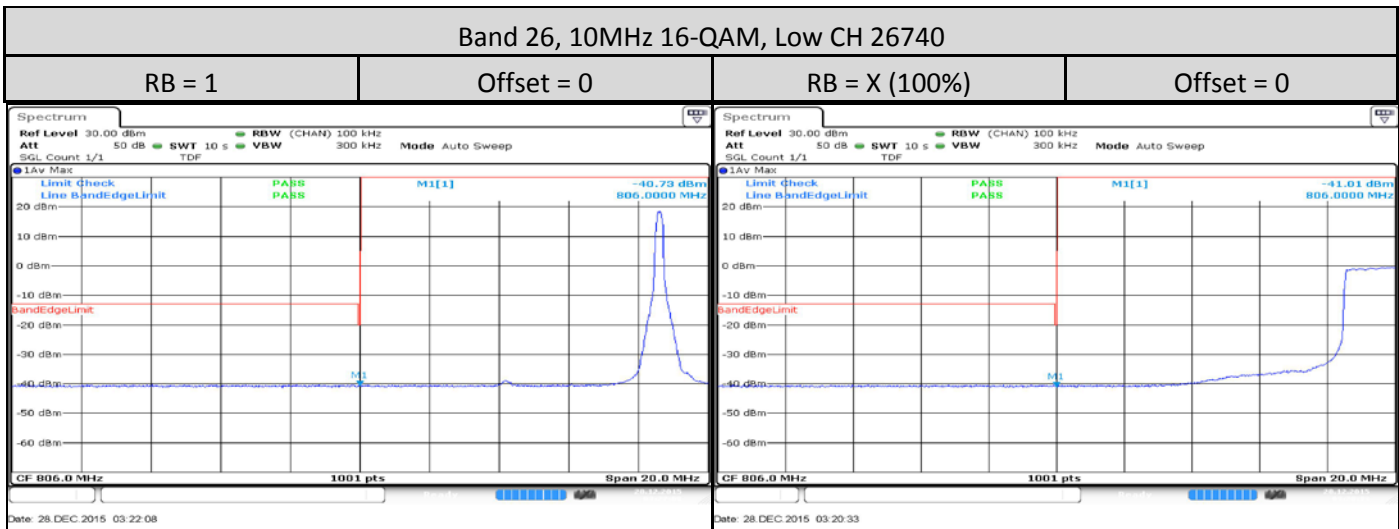
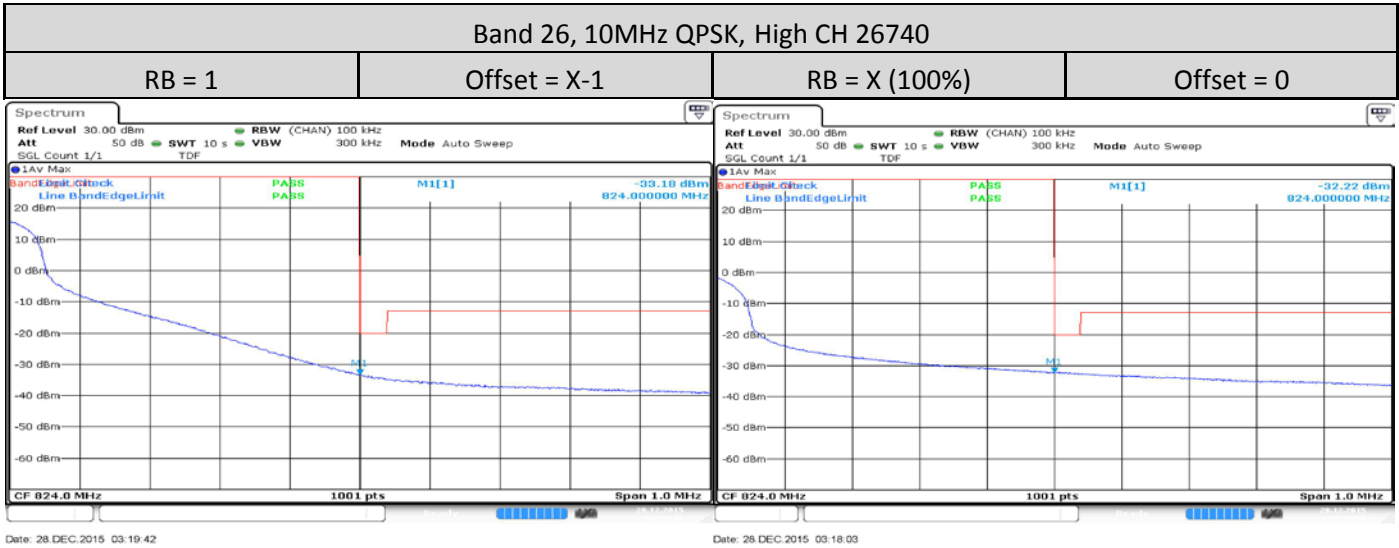






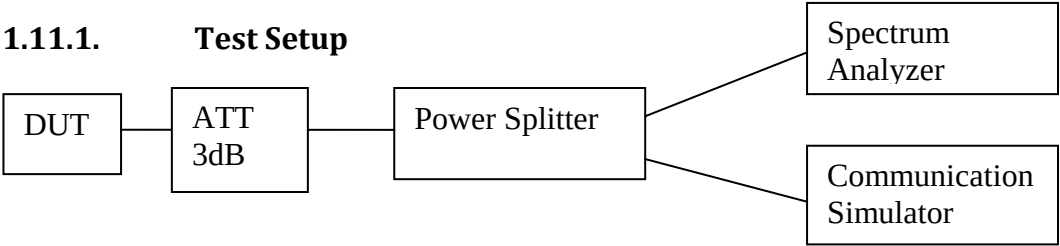






1.11. Conducted Spurious Emission

1.11.1. Test Setup



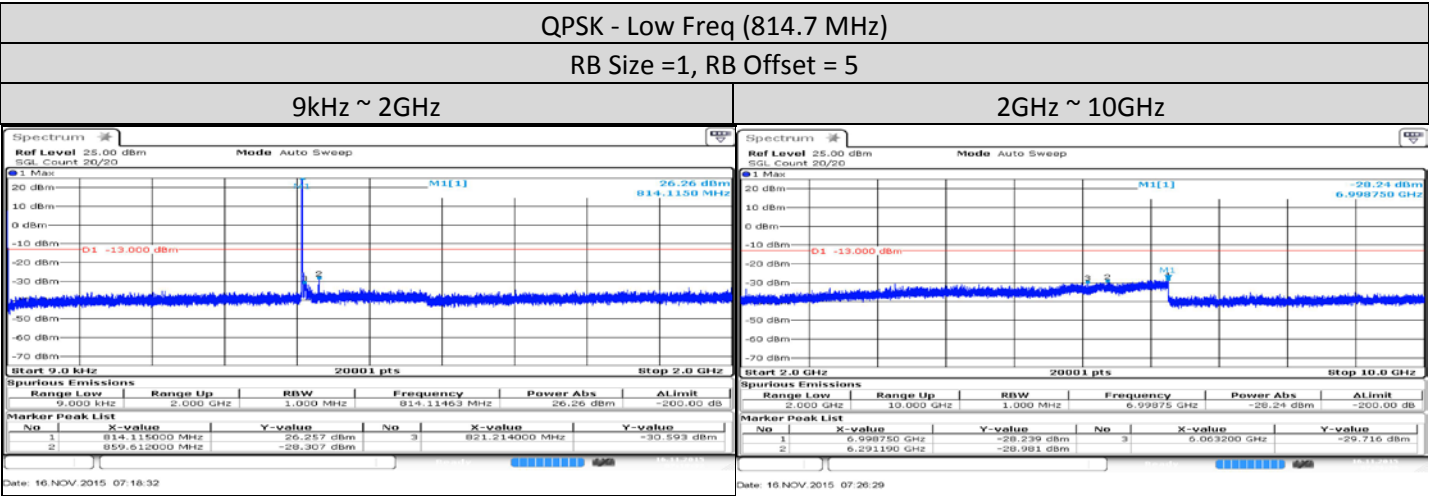
- 1) The DUT transmitter output port was connected to communication simulator with above setup.
- 2) Path loss for the measurement included.
- 3) Set DUT to transmit maximum power through communication simulator.
- 4) Spectrum Analyzer setting, RBW = 1 MHz, VBW = 3 MHz.
- 5) The spurious emission of lowest, middle and highest channels with the highest RF powers were measured.
- 6) Record the maximum trace plot into the test report.

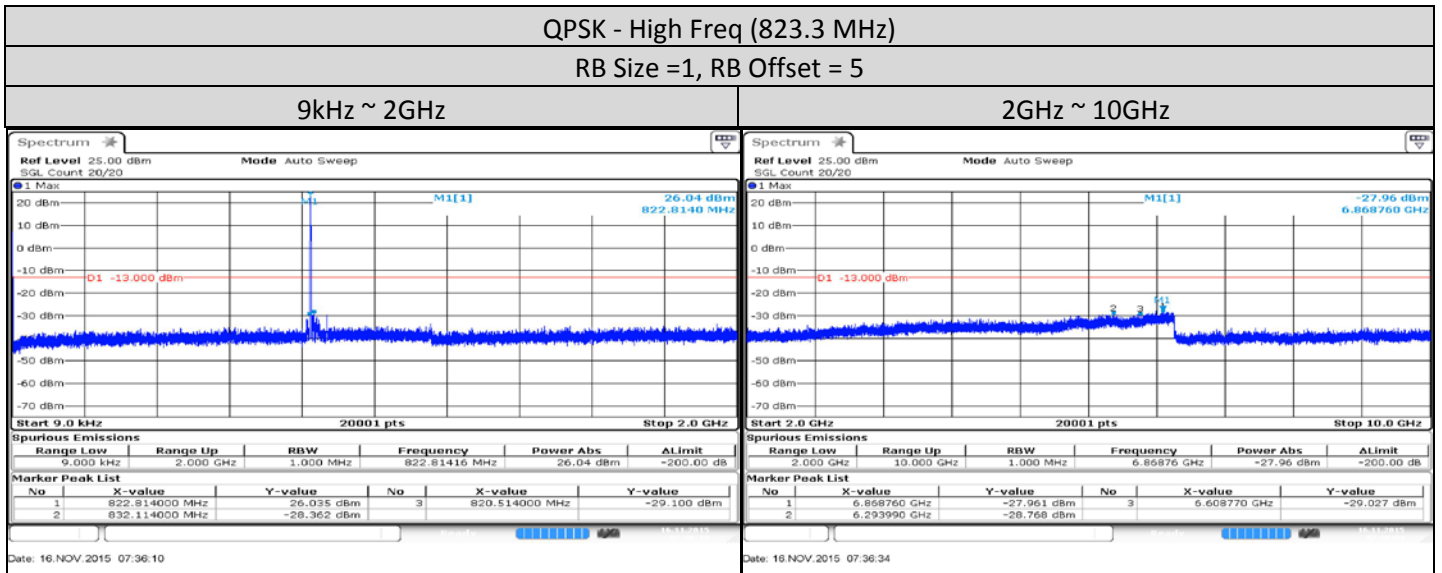
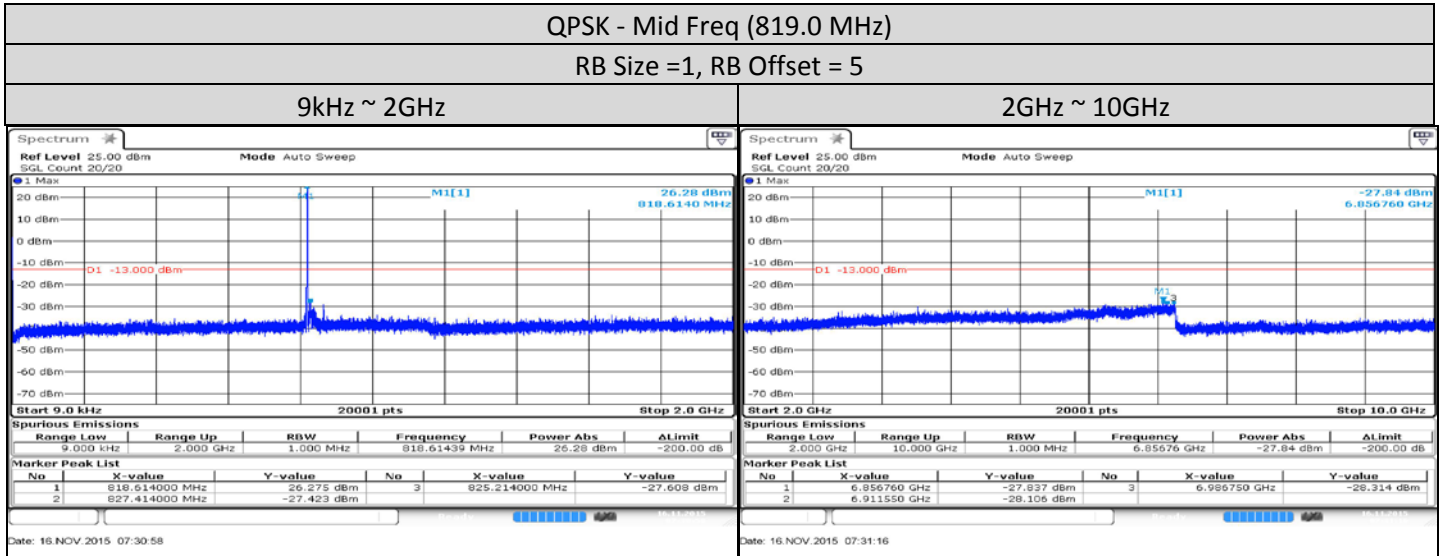
1.11.2. Test Limit

The power of any emission outside a licensee’s frequency block shall be attenuated below the transmitter power (P) by at least $43 + \log_{10}(P)$ dB. The limit of a emission equal to -13dBm.

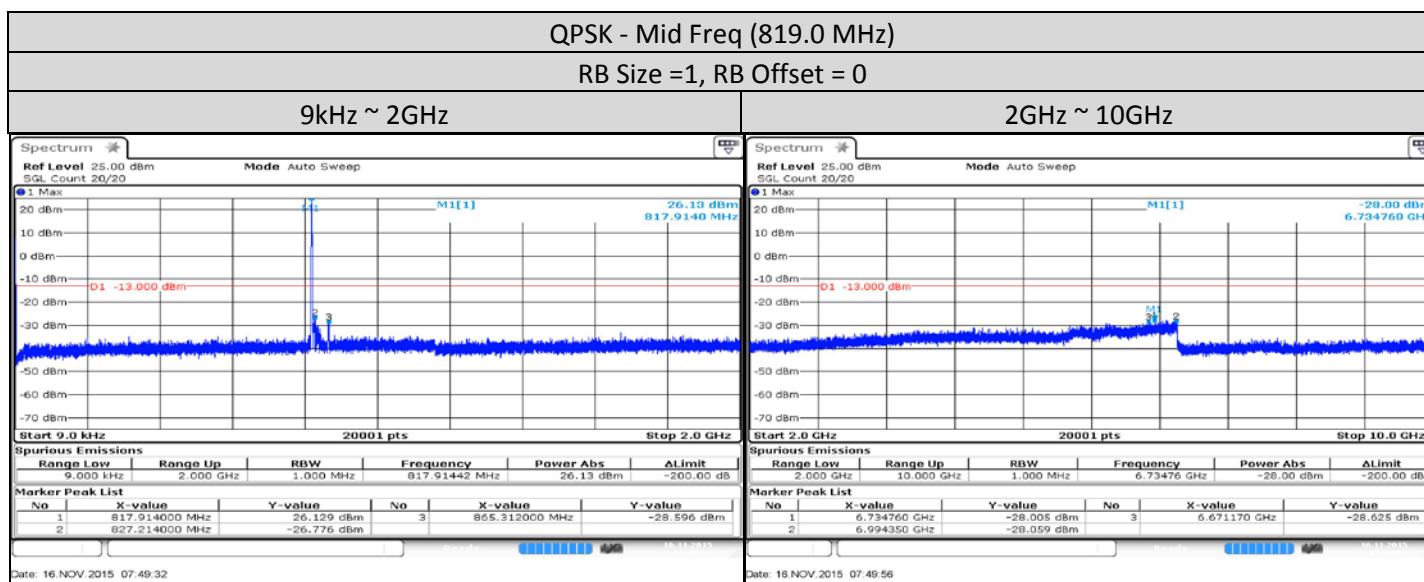
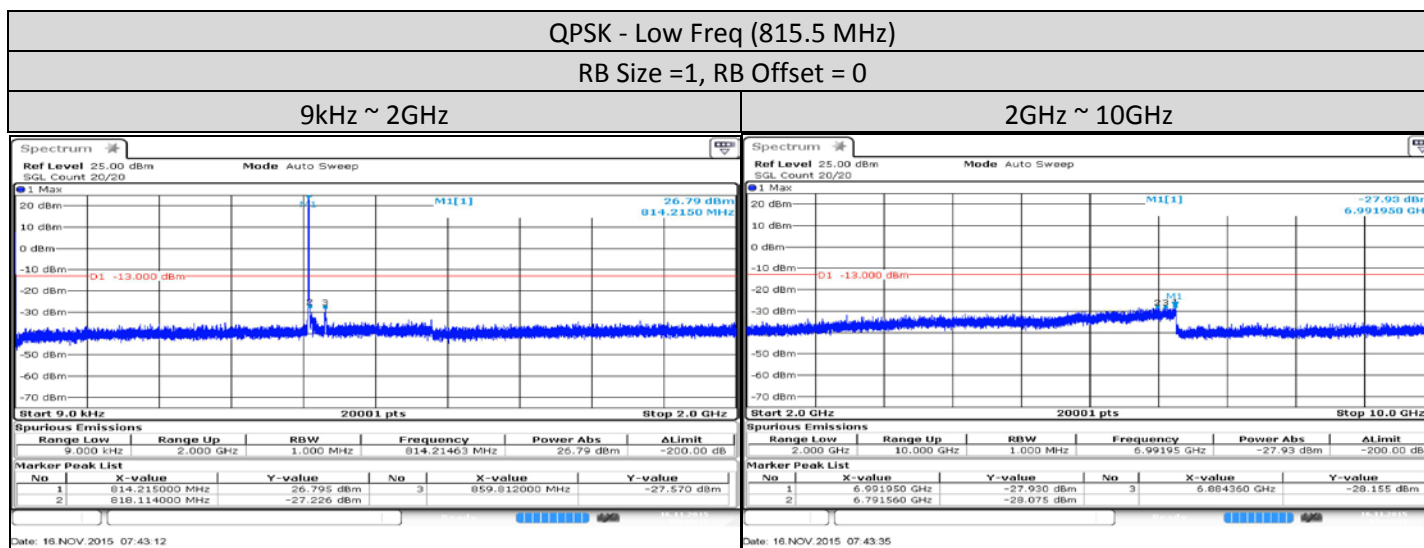
1.11.3. Conducted Spurious Emission - LTE Band 26 (814-824MHz)

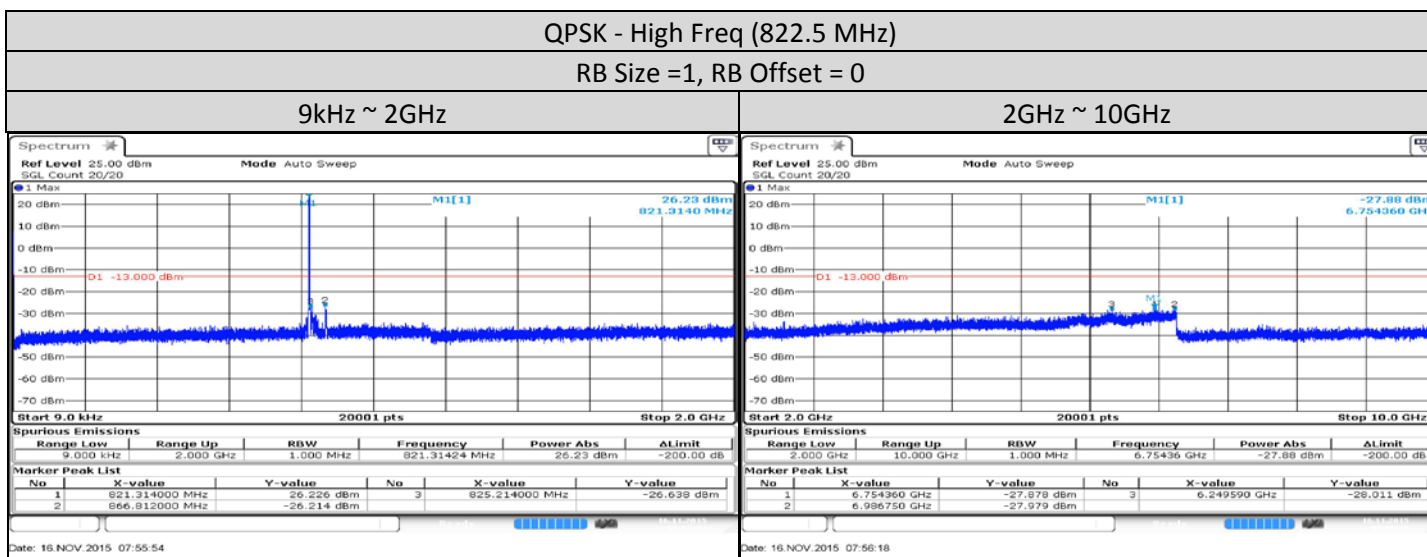
1.4MHz



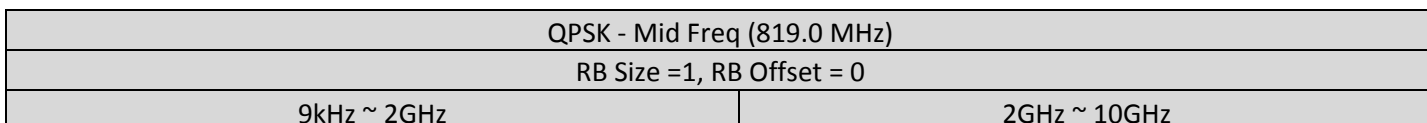
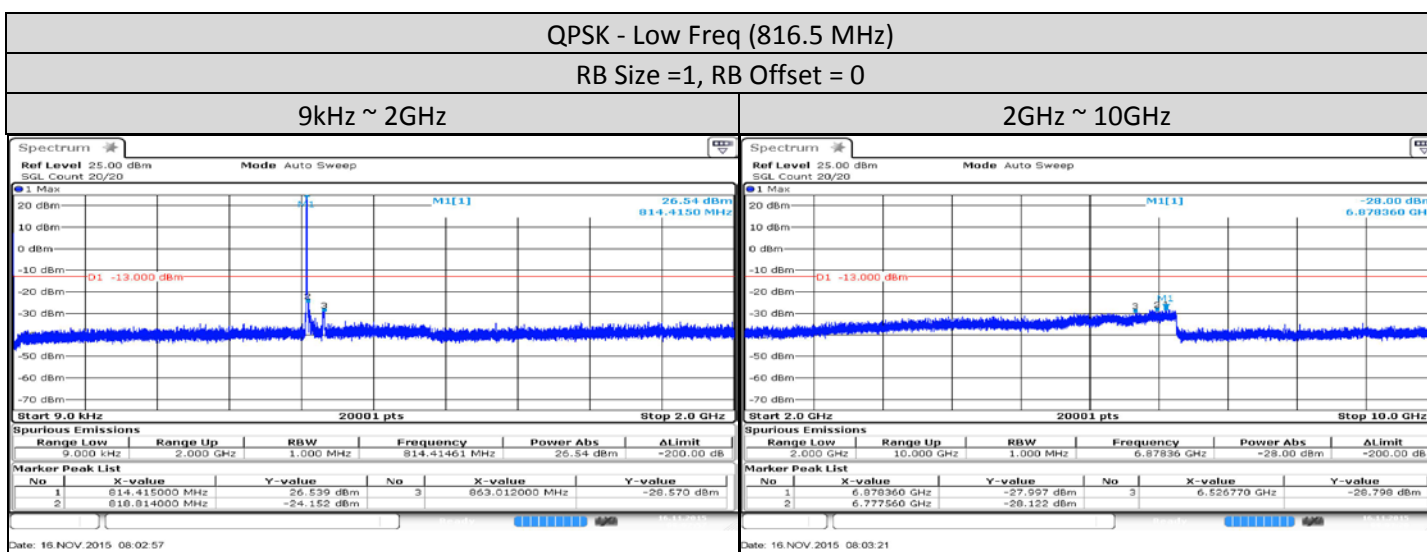


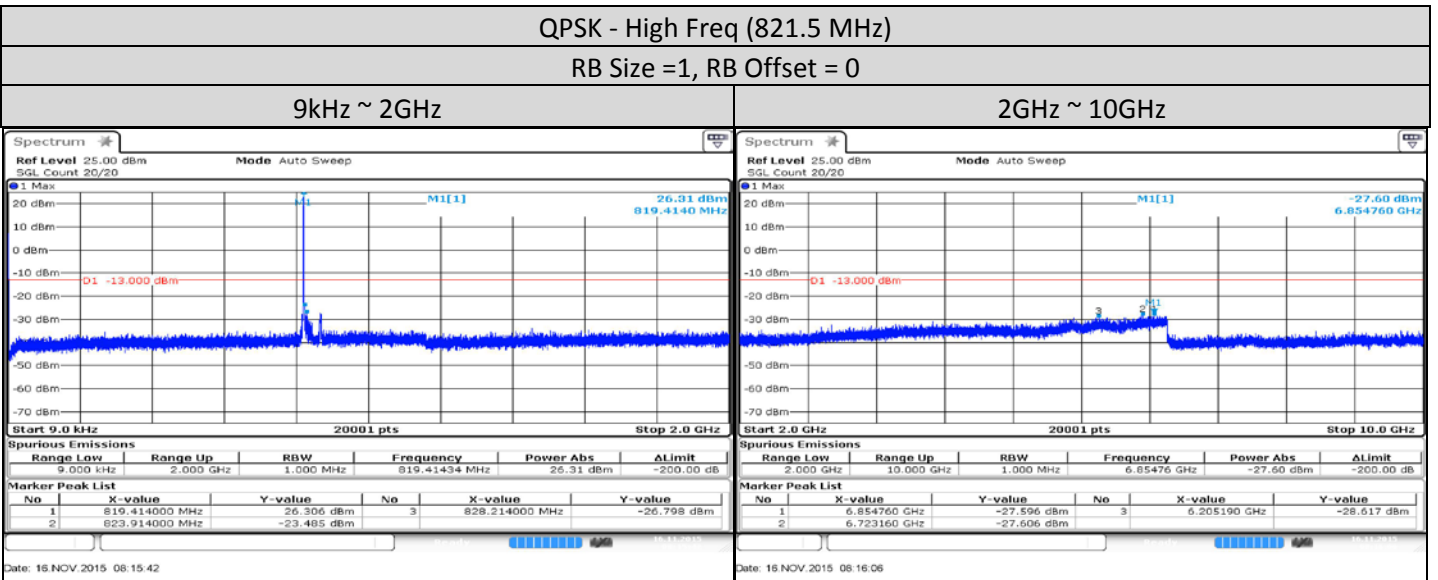
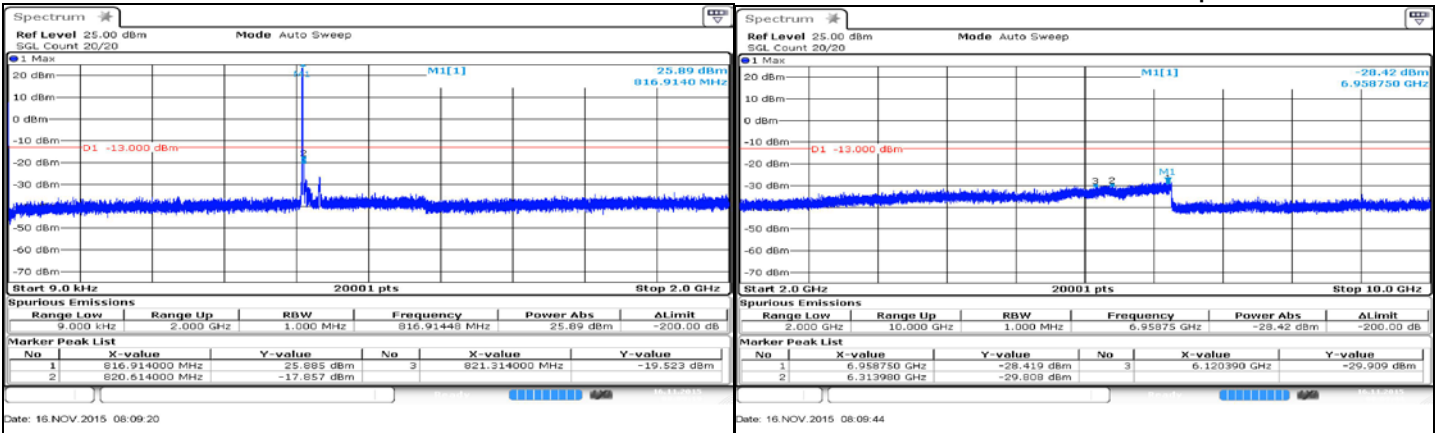
3MHz



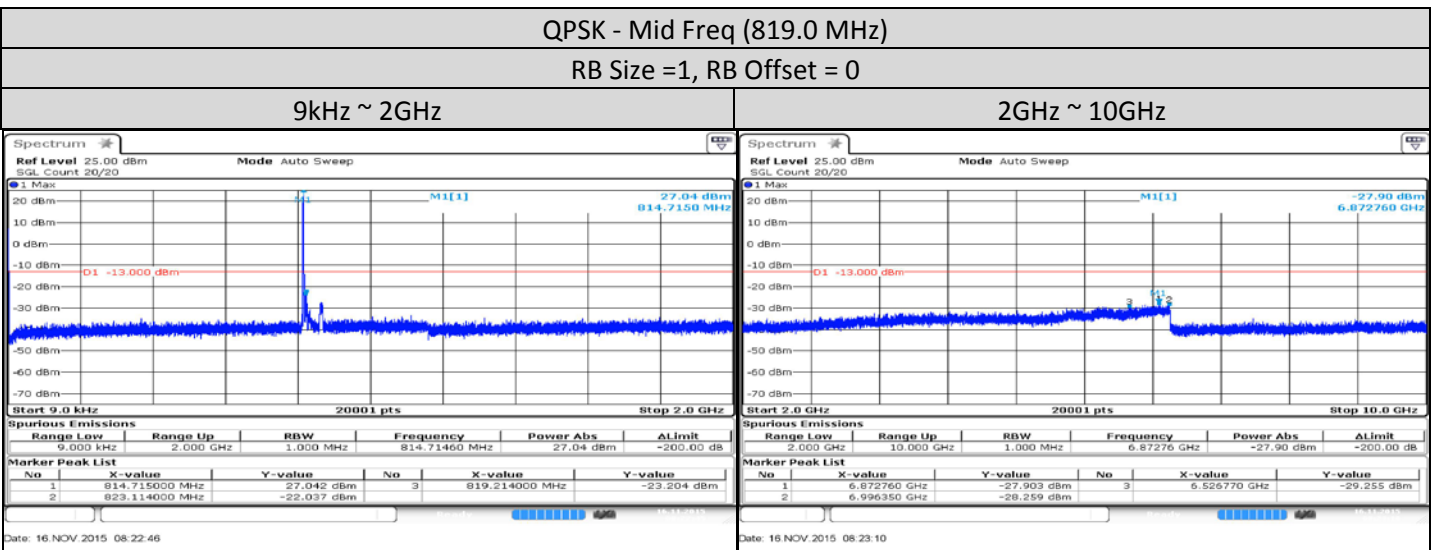


5MHz



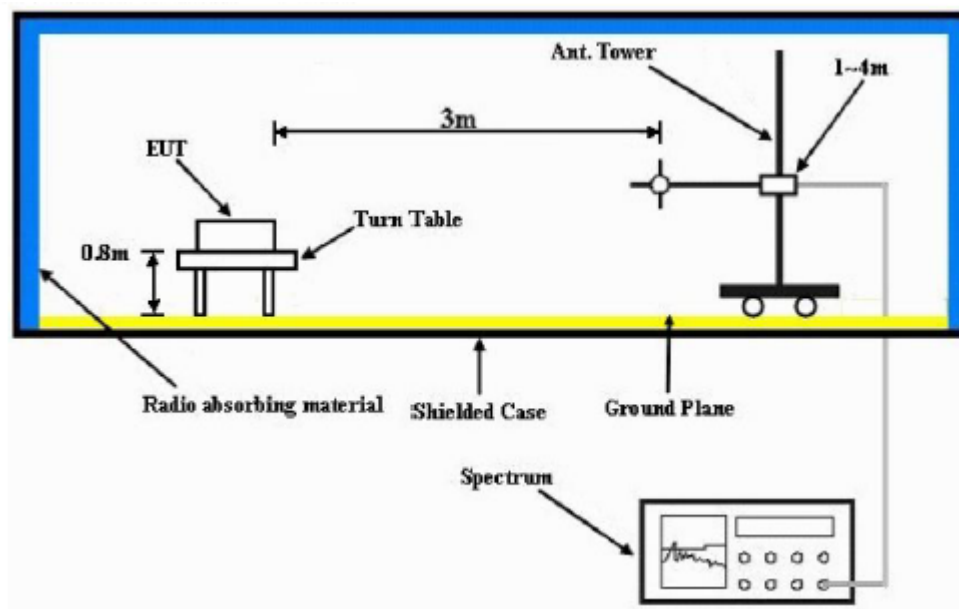


10MHz



1.12. Radiated Spurious Emission

1.12.1. Test Setup



- 1) The spectrum setting for scanning Radiated Emission below 1 GHz is RBW = 100 kHz, VBW = 300 kHz and above 1 GHz is RBW = 1MHz, VBW = 3MHz. Detector mode is positive peak.
- 2) In the semi-anechoic chamber, setup as illustrated above the 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 antenna is substituted for EUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 4) Final Radiated Spurious Emission = “Read Value” + Measured substitution value.

1.12.2. Test Limit

The power of any emission outside a licensee’s frequency block shall be attenuated below the transmitter power (P) by at least $43 + \log_{10}(P)$ dB. The limit of a emission equal to -13dBm.

1.12.3. Radiated Spurious Emission – LTE Band 26 (814-824MHz)

MODEL #: LEX L10i

Battery : PMNN4472A, Accy : 3360-HKTN4009A-3, 3360-CB000262A01-3

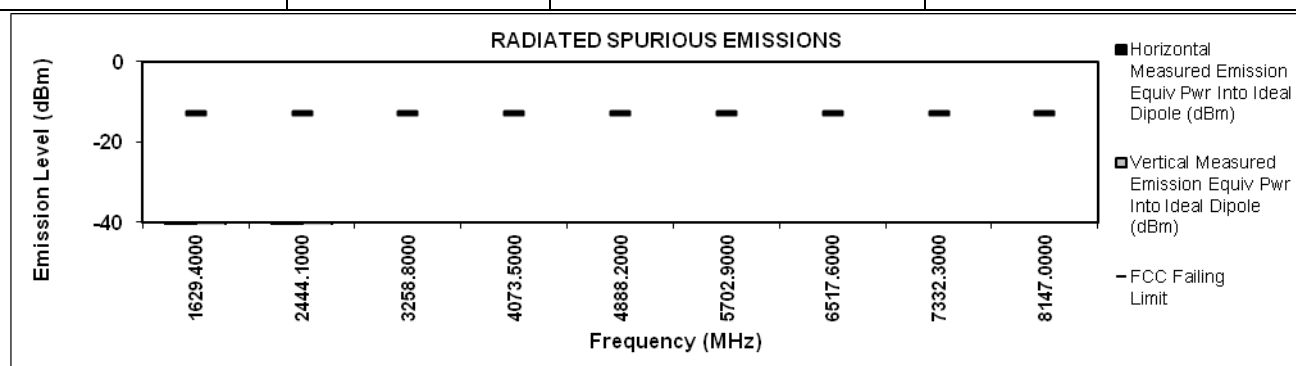
Band 26 (Low)

814.7 MHz

Bandwidth 1.4 Mhz

0.2512 Watt(s)/Max Power

S/N: 171PRO1569

[illegible]

Motorola Penang EMC Lab - Test Performed by: Qawiman/Nazrin

February 21, 2016

FCC Registration: 772092

Industry Canada: 109AK

Remarks:** Indicates the spurious emission could not be detected due to noise limitations or ambients.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

Temp(Deg): 24.3 Hum(%RH): 71.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

MODEL #: LEX L10i

Battery : PMNN4472A, Accy : 3360-HKTN4009A-3, 3360-CB000262A01-3

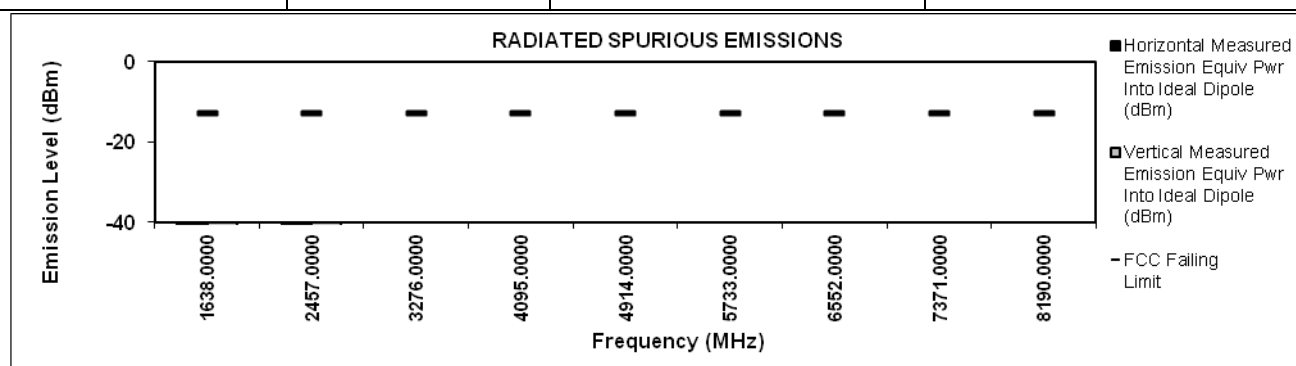
Band 26 (Mid)

819 MHz

Bandwidth 1.4 Mhz

0.2512 Watt(s)/Max Power

S/N: 171PRO1569

[illegible]

Motorola Penang EMC Lab - Test Performed by: Qawiman/Nazrin

February 21, 2016

FCC Registration: 772092

Industry Canada: 109AK

Remarks:** Indicates the spurious emission could not be detected due to noise limitations or ambients.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

Temp(Deg): 24.3 Hum(%RH): 71.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

MODEL #: LEX L10i

Battery : PMNN4472A, Accy : 3360-HKTN4009A-3, 3360-CB000262A01-3

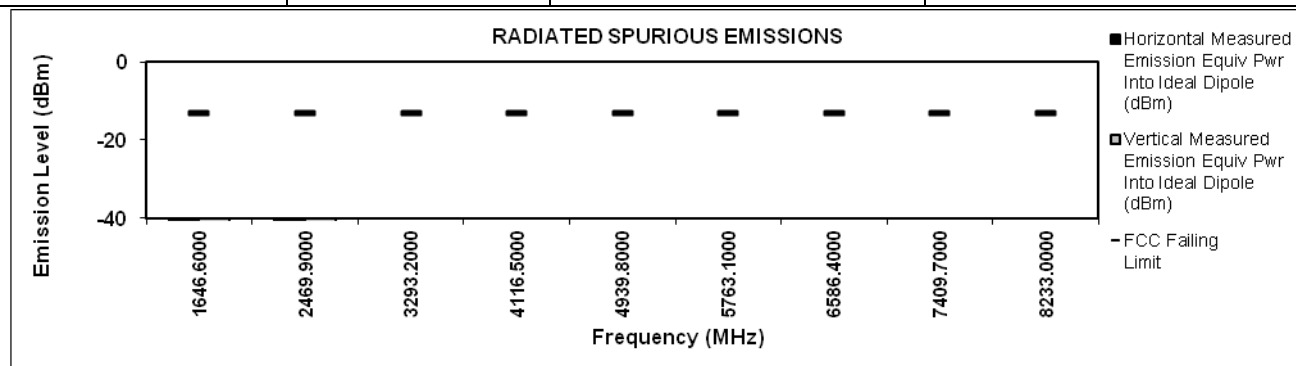
Band 26 (High)

823.3 MHz

Bandwidth 1.4 Mhz

0.2512 Watt(s)/Max Power

S/N: 171PRQ1569

[illegible]

Motorola Penang EMC Lab - Test Performed by: Qawiman/Nazrin

February 21, 2016

FCC Registration: 772092

Industry Canada: 109AK

Remarks:** Indicates the spurious emission could not be detected due to noise limitations or ambients.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

Temp(Deg): 24.3 Hum(%RH): 71.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

MODEL #: LEX L10i

Battery : PMNN4472A, Accy : 3360-HKTN4009A-3, 3360-CB000262A01-3

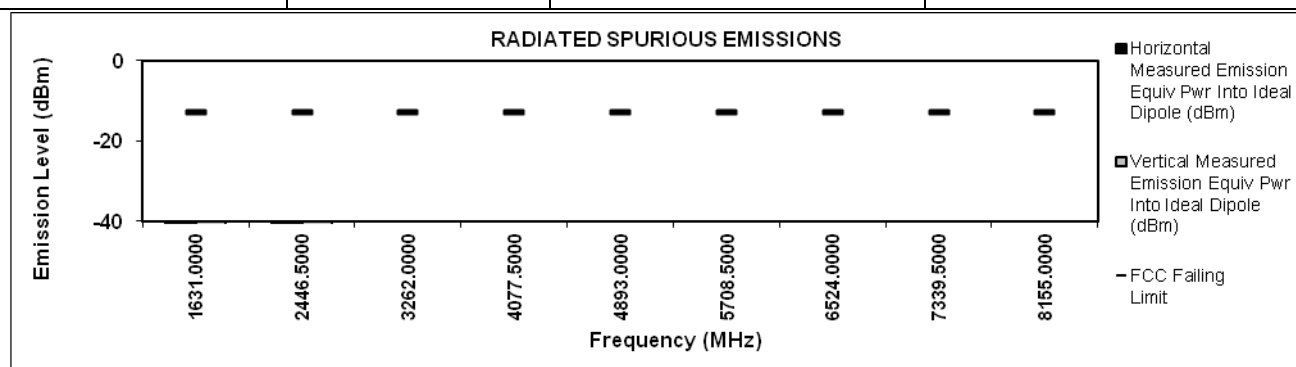
Band 26 (Low)

815.5 MHz

Bandwidth 3 Mhz

0.2512 Watt(s)/Max Power

S/N: 171PRO1569

[illegible]

Motorola Penang EMC Lab - Test Performed by: Qawiman/Nazrin

February 21, 2016

FCC Registration: 772092

Industry Canada: 109AK

Remarks:** Indicates the spurious emission could not be detected due to noise limitations or ambients.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

Temp(Deg): 24.3 Hum(%RH): 71.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

MODEL #: LEX L10i

Battery : PMNN4472A, Accy : 3360-HKTN4009A-3, 3360-CB000262A01-3

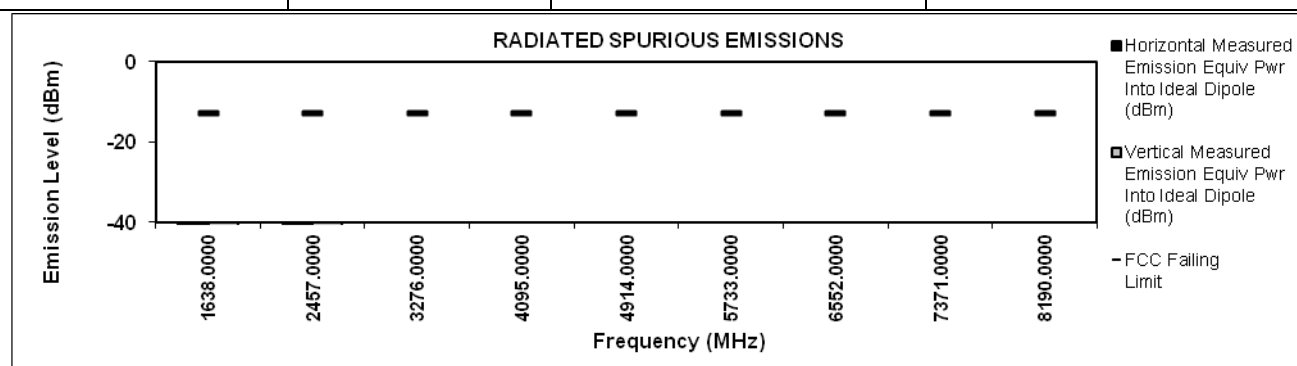
Band 26 (Mid)

819 MHz

Bandwidth 3 Mhz

0.2512 Watt(s)/Max Power

S/N: 171PRO1569

[illegible]

Motorola Penang EMC Lab - Test Performed by: Qawiman/Nazrin

February 21, 2016

FCC Registration: 772092

Industry Canada: 109AK

Remarks:** Indicates the spurious emission could not be detected due to noise limitations or ambients.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

Temp(Deg): 24.3 Hum(%RH): 71.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

MODEL #: LEX L10i

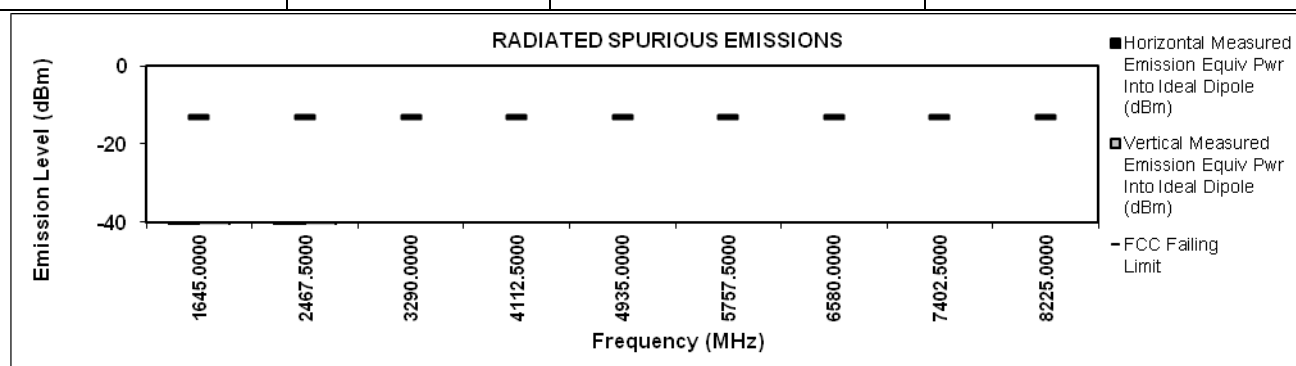
Band 26 (High)

822.5 MHz

Bandwidth 3 Mhz

0.2512 Watt(s)/Max Power

S/N: 171PRO1569

[illegible]

Motorola Penang EMC Lab - Test Performed by: Qawiman/Nazrin

February 21, 2016

FCC Registration: 772092

Industry Canada: 109AK

Remarks:** Indicates the spurious emission could not be detected due to noise limitations or ambients.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

Temp(Deg): 24.3 Hum(%RH): 71.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

MODEL #: LEX L10i

Battery : PMNN4472A, Accy : 3360-HKTN4009A-3, 3360-CB000262A01-3

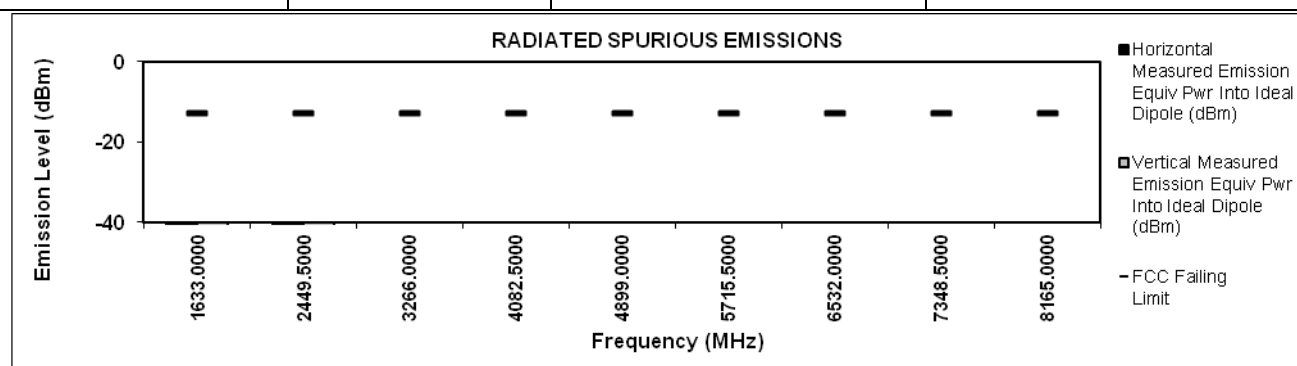
Band 26 (Low)

816.5 MHz

Bandwidth 5 Mhz

0.2512 Watt(s)/Max Power

S/N: 171PRO1569

[illegible]

Motorola Penang EMC Lab - Test Performed by: Qawiman/Nazrin

February 21, 2016

FCC Registration: 772092

Industry Canada: 109AK

Remarks:** Indicates the spurious emission could not be detected due to noise limitations or ambients.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

Temp(Deg): 24.3 Hum(%RH): 71.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

MODEL #: LEX L10i

Battery : PMNN4472A, Accy : 3360-HKTN4009A-3, 3360-CB000262A01-3

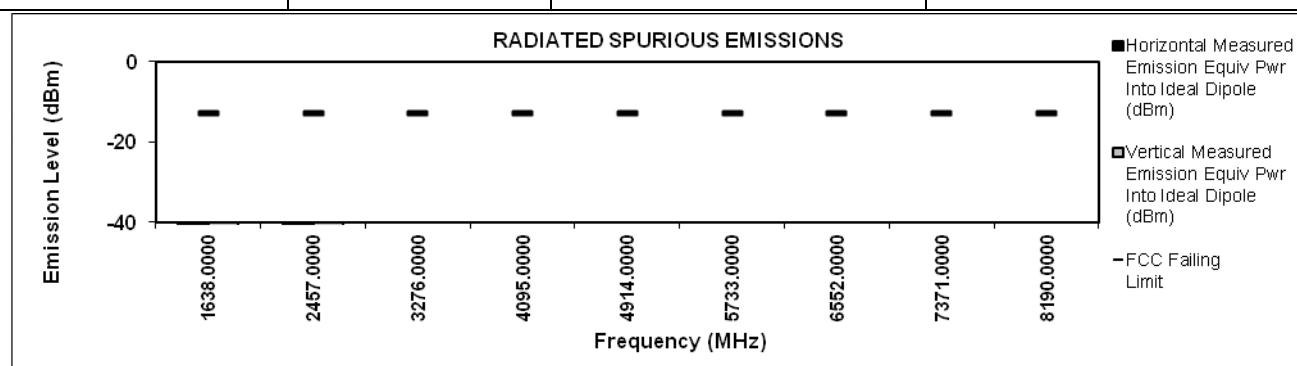
Band 26 (Mid)

819 MHz

Bandwidth 5 Mhz

0.2512 Watt(s)/Max Power

S/N: 171PRO1569

[illegible]

Motorola Penang EMC Lab - Test Performed by: Qawiman/Nazrin

February 21, 2016

FCC Registration: 772092

Industry Canada: 109AK

Remarks:** Indicates the spurious emission could not be detected due to noise limitations or ambients.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

Temp(Deg): 24.3 Hum(%RH): 71.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

MODEL #: LEX L10i

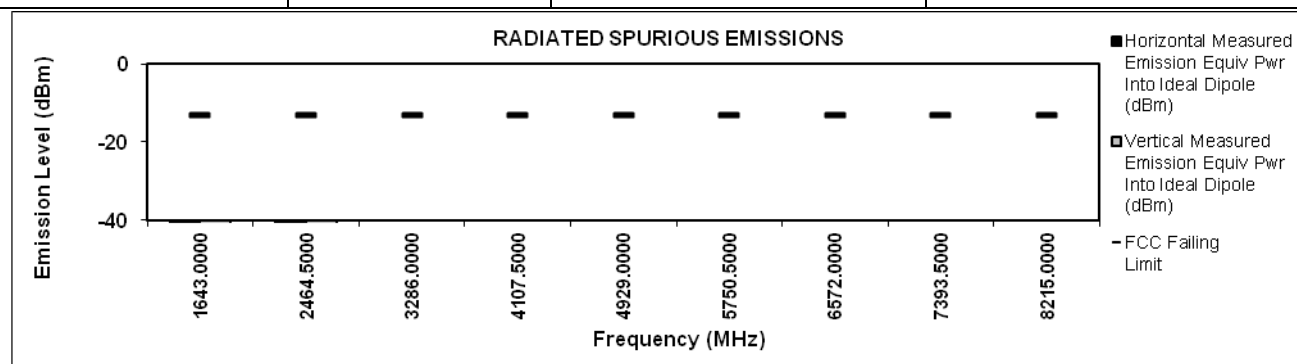
Band 26 (High)

821.5 MHz

Bandwidth 5 Mhz

0.2512 Watt(s)/Max Power

S/N: 171PRO1569

[illegible]

Motorola Penang EMC Lab - Test Performed by: Qawiman/Nazrin

FCC Registration: 772092

Industry Canada: 109AK

Remarks:** Indicates the spurious emission could not be detected due to noise limitations or ambients.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

Temp(Deg): 24.3 Hum(%RH): 71.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

MODEL #: LEX L10i

Battery : PMNN4472A, Accy : 3360-HKTN4009A-3, 3360-CB000262A01-3

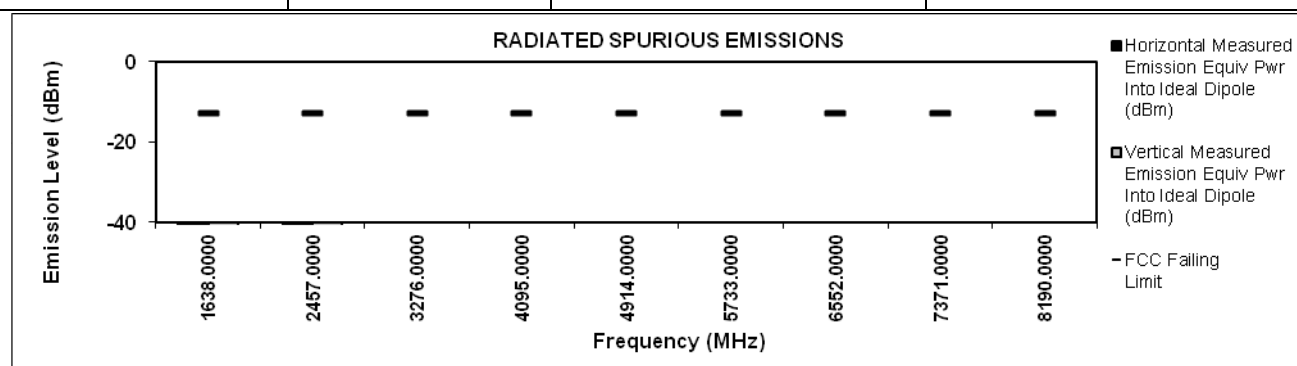
Band 26 (Mid)

819 MHz

Bandwidth 10 Mhz

0.2512 Watt(s)/Max Power

S/N: 171PRO1569

[illegible]

Motorola Penang EMC Lab - Test Performed by: Qawiman/Nazrin

February 21, 2016

FCC Registration: 772092

Industry Canada: 109AK

Remarks:** Indicates the spurious emission could not be detected due to noise limitations or ambients.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

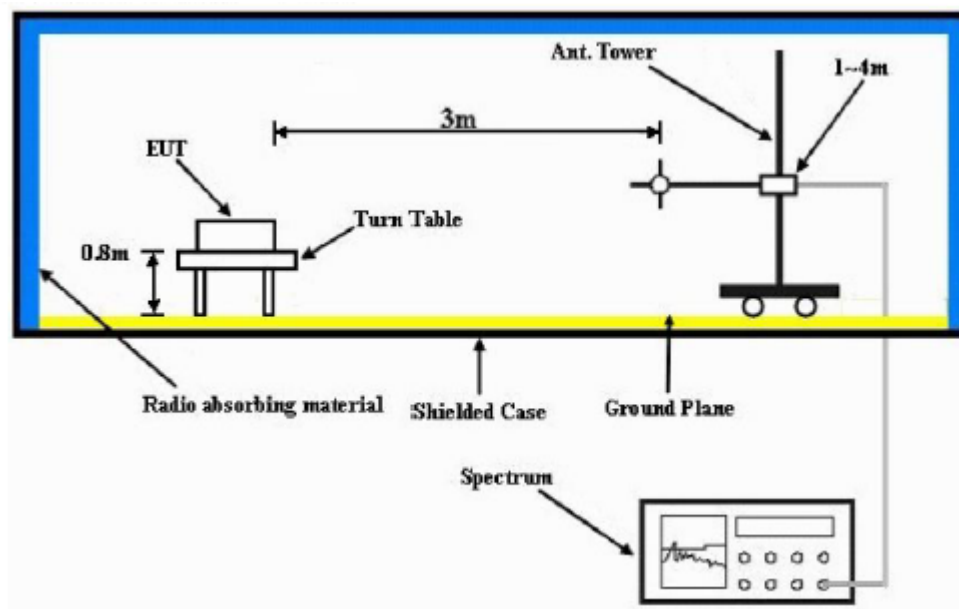
Temp(Deg): 24.3 Hum(%RH): 71.4

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

1.13. Effective Radiated Power (ERP)

1.13.1. Test Setup



- 1) The spectrum setting for Effective Radiated Power (ERP) is RBW = 100 kHz, VBW = 300 kHz. Detector Mode is RMS.
- 2) In the semi-anechoic chamber, setup as illustrated above the EUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval 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 for each degree interval. The “Read Value” is the spectrum reading of maximum power value.
- 3) The substitution antenna is substituted for EUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 4) $ERP = \text{“Read Value”} + \text{Measured substitution value.}$

1.13.2. Test Limit

The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw). Power is given in terms of effective radiated power (ERP).

1.13.3. Effective Radiated Power (ERP) - LTE Band 26 (814-824MHz)

Band 26, 1.4MHz QPSK, Low CH 26697	
RB = 1	Offset = 5

EIRP/ERP

Bandwidth : 1.4MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	814.7	19.57	17.42
Vert.	814.7	13.02	10.87

Band 26, 1.4MHz QPSK, Mid CH 26740	
RB = 1	Offset = 5

EIRP/ERP

Bandwidth : 1.4MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	819	15.93	13.78
Vert.	819	13.70	11.55

Band 26, 1.4MHz QPSK, High CH 26783	
RB = 1	Offset = 5

EIRP/ERP

Bandwidth : 1.4MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	823.3	15.72	13.57
Vert.	823.3	14.24	12.09

Band 26, 3MHz QPSK, Low CH 26705	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 3 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	815.5	15.16	13.01
Vert.	815.5	9.91	7.76

Band 26, 3MHz QPSK, Mid CH 26740	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 3 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	819	17.74	15.59
Vert.	819	12.46	10.31

Band 26, 3MHz QPSK, High CH 26775	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 3 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	822.5	18.63	16.48
Vert.	822.5	12.96	10.81

Band 26, 5MHz QPSK, Low CH 26715	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 5 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	816.5	19.24	17.09
Vert.	816.5	12.52	10.37

Band 26, 5MHz QPSK, Mid CH 26740	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 5 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	819	15.16	13.01
Vert.	819	11.91	9.76

Band 26, 5MHz QPSK, High CH 26765	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 5 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	821.5	18.48	16.33
Vert.	821.5	12.48	10.33

Band 26, 10MHz QPSK, Mid CH 26740	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 10 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: QPSK

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	819	14.56	12.41
Vert.	819	13.34	11.19

Band 26, 1.4MHz 16QAM, Low CH 26697	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 1.4MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	814.7	17.06	14.91
Vert.	814.7	4.92	2.77

Band 26, 1.4MHz 16QAM, Mid CH 26740	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 1.4MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	819	17.57	15.42
Vert.	819	9.61	7.46

Band 26, 1.4MHz 16QAM, High CH 26783	
RB = 1	Offset = 5

EIRP/ERP

Bandwidth : 1.4MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	823.3	17.00	14.85
Vert.	823.3	9.64	7.49

Band 26, 3MHz 16QAM, Low CH 26705	
RB = 1	Offset = 5

EIRP/ERP

Bandwidth : 3 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	815.5	17.52	15.37
Vert.	815.5	10.70	8.55

Band 26, 3MHz 16QAM, Mid CH 26740	
RB = 1	Offset = 5

EIRP/ERP

Bandwidth : 3 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	819	16.28	14.13
Vert.	819	6.82	4.67

Band 26, 3MHz 16QAM, High CH 26775	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 3 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	822.5	10.25	8.1
Vert.	822.5	7.56	5.41

Band 26, 5MHz 16QAM, Low CH 26715	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 5 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	816.5	18.32	16.17
Vert.	816.5	9.96	7.81

Band 26, 5MHz 16QAM, Mid CH 26740	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 5 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	819	17.85	15.7
Vert.	819	11.66	9.51

Band 26, 5MHz 16QAM, High CH 26765	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 5 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	821.5	18.31	16.16
Vert.	821.5	4.89	2.74

Band 26, 10MHz 16QAM, Mid CH 26740	
RB = 1	Offset = 0

EIRP/ERP

Bandwidth : 10 MHz

S/N: 171PRQ1568

Tx Power: 0.2512 Watts

Modulation: 16QAM

Accessory: 3360-HKTN4009A-3, 3360-CB000262A01-3

Antenna Polarization	Frequency (MHz)	EIRP (dBm)	ERP (dBm)
Horiz.	819	18.21	16.06
Vert.	819	9.32	7.17