







5.5 99%&26DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 2.1049(h) & FCC 47 CFR Part 24.238(b)

Test Method: ANSI/TIA-603-E-2016 & KDB 971168 D01v03

Limit: No Limit

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 the low, middle and high channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: See table below

5.5.1 WCDMA Band IV

99% & 26 dB Bandwidth				
Test Mode	Channel	Frequency (MHz)	26 dB BW (MHz)	99% BW (MHz)
WCDMA RMC 12.2Kbps	1312	1712.4	4.729	4.1391
	1412	1732.4	4.698	4.1331
	1513	1752.6	4.738	4.1469

The test plot as follows:



5.5.2 LTE Band 4

LTE Band 4								
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)		
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
Channel Bandwidth: 1.4 MHz								
Lowest	6	0	1.237	1.215	1.220	1.0906	1.0903	1.0888
Middle	6	0	1.229	1.242	1.243	1.1034	1.0929	1.0925
Highest	6	0	1.238	1.235	1.238	1.0927	1.0917	1.0883
Channel Bandwidth: 3 MHz								
Lowest	15	0	3.027	2.973	2.975	2.7061	2.6997	2.7040
Middle	15	0	2.960	2.978	3.020	2.6892	2.6985	2.7015
Highest	15	0	2.990	2.994	2.998	2.6969	2.7019	2.6978
Channel Bandwidth: 5 MHz								
Lowest	25	0	4.942	4.959	4.944	4.5230	4.5020	4.5026
Middle	25	0	4.954	4.948	4.958	4.5190	4.5207	4.5019
Highest	25	0	4.974	4.988	4.992	4.5013	4.5197	4.5234
Channel Bandwidth: 10 MHz								
Lowest	50	0	9.827	9.737	9.732	8.9728	8.9949	8.9889
Middle	50	0	9.750	9.714	9.779	8.9764	8.9954	8.9927
Highest	50	0	9.793	9.769	9.807	9.0065	8.9808	8.9922
Channel Bandwidth: 15 MHz								
Lowest	75	0	14.70	14.51	14.51	13.431	13.462	13.496
Middle	75	0	14.66	14.42	14.56	13.503	13.478	13.486
Highest	75	0	14.46	14.57	14.58	13.437	13.464	13.449
Channel Bandwidth: 20 MHz								
Lowest	100	0	19.36	17.994	19.35	17.985	17.994	17.995
Middle	100	0	19.62	19.15	19.40	17.992	17.954	18.021
Highest	100	0	19.25	19.22	19.29	17.978	17.900	17.966













