

LTE FDD Band 7-5MHz Channel Bandwidth

Middle Channel

QPSK



16QAM



9KHz~150KHz



9KHz~150KHz



150KHz~30MHz



150KHz~30MHz



30MHz~26GHz

30MHz~26GHz

LTE FDD Band 7-5MHz Channel Bandwidth

High Channel

QPSK



16QAM



9KHz~150KHz



9KHz~150KHz



150KHz~30MHz



150KHz~30MHz



30MHz~26GHz

30MHz~26GHz

LTE FDD Band 7-10MHz Channel Bandwidth

Low Channel

QPSK



16QAM



9KHz~150KHz



9KHz~150KHz



150KHz~30MHz



150KHz~30MHz



30MHz~26GHz

30MHz~26GHz

LTE FDD Band 7-10MHz Channel Bandwidth

Middle Channel

QPSK



16QAM



9KHz~150KHz



9KHz~150KHz



150KHz~30MHz



150KHz~30MHz



30MHz~26GHz

30MHz~26GHz

LTE FDD Band 7-10MHz Channel Bandwidth

High Channel

QPSK



16QAM



9KHz~150KHz



9KHz~150KHz



150KHz~30MHz



150KHz~30MHz



30MHz~26GHz

30MHz~26GHz

LTE FDD Band 7-15MHz Channel Bandwidth

Low Channel

QPSK



16QAM



9KHz~150KHz



9KHz~150KHz



150KHz~30MHz



150KHz~30MHz



30MHz~26GHz

30MHz~26GHz

LTE FDD Band 7-15MHz Channel Bandwidth

Middle Channel

QPSK



16QAM



9KHz~150KHz



9KHz~150KHz



150KHz~30MHz



150KHz~30MHz



30MHz~26GHz

30MHz~26GHz

LTE FDD Band 7-15MHz Channel Bandwidth

High Channel

QPSK



16QAM



9KHz~150KHz



9KHz~150KHz



150KHz~30MHz



150KHz~30MHz



30MHz~26GHz

30MHz~26GHz

LTE FDD Band 7-20MHz Channel Bandwidth

Low Channel

QPSK



16QAM



9KHz~150KHz



9KHz~150KHz



150KHz~30MHz



150KHz~30MHz



30MHz~26GHz

30MHz~26GHz

LTE FDD Band 7-20MHz Channel Bandwidth

Middle Channel

QPSK



16QAM



9KHz~150KHz



9KHz~150KHz



150KHz~30MHz



150KHz~30MHz



30MHz~26GHz

30MHz~26GHz

LTE FDD Band 7-20MHz Channel Bandwidth

High Channel

QPSK



16QAM



9KHz~150KHz



9KHz~150KHz



150KHz~30MHz



150KHz~30MHz



30MHz~26GHz

30MHz~26GHz

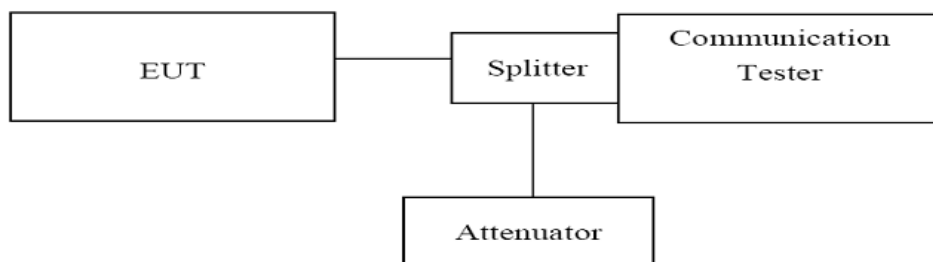
3.5. Band Edge compliance

LIMIT

According to §27.53 (h): For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

According to §27.53 (m) (4): For mobile digital stations, the attenuation factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge and $55 + 10 \log (P)$ dB at 5.5 mega-hertz from the channel edges. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensee's operating on BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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 detector by spectrum

TEST RESULTS

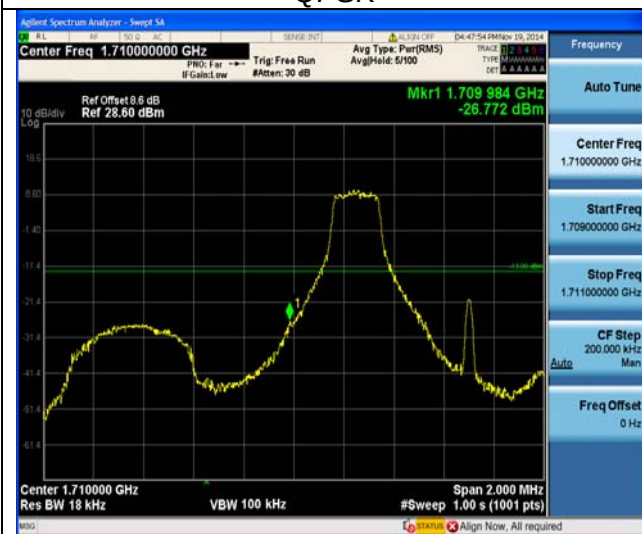
Remark: We tested all RB Configuration for LTE Band 4 and Band 7, recorded worst case at 1RB high, 1RB low, 50%RB middle and 100%RB for LTE Band 7, also recorded all RB for LTE Band 4.

Test plots as follow:

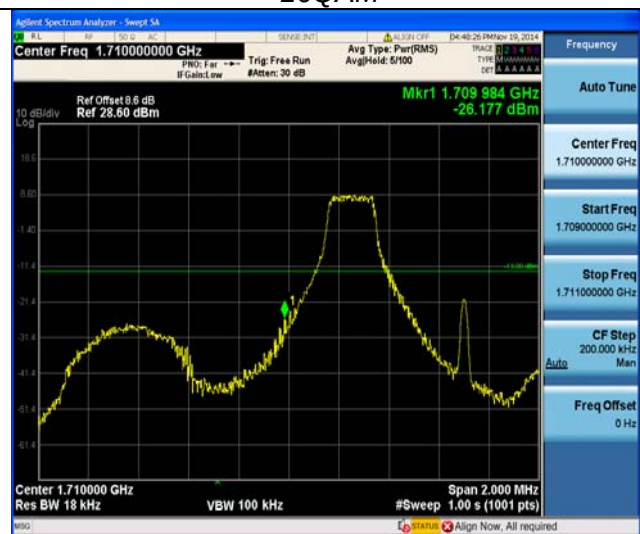
LTE FDD Band 4-1.4MHz Channel Bandwidth Band Edge Compliance

Low Channel

QPSK



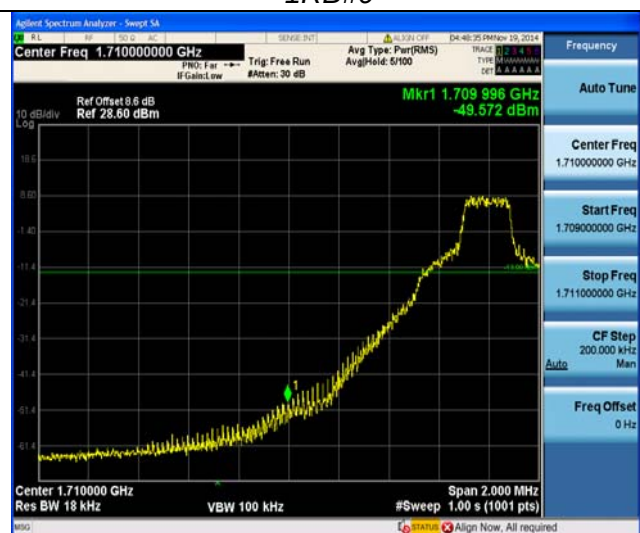
16QAM



1RB#0



1RB#0



1RB#3



1RB#3



1RB#5

1RB#5

LTE FDD Band 4-1.4MHz Channel Bandwidth Band Edge Compliance

Low Channel

QPSK



16QAM



3RB#0



3RB#0



3RB#2



3RB#2



3RB#3

3RB#3

LTE FDD Band 4-1.4MHz Channel Bandwidth Band Edge Compliance

Low Channel

QPSK



6RB#0

16QAM



6RB#0

High Channel

QPSK



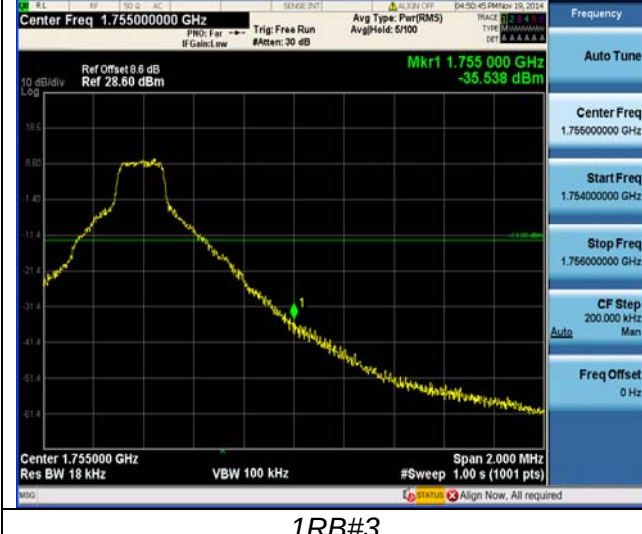
1RB#0

16QAM



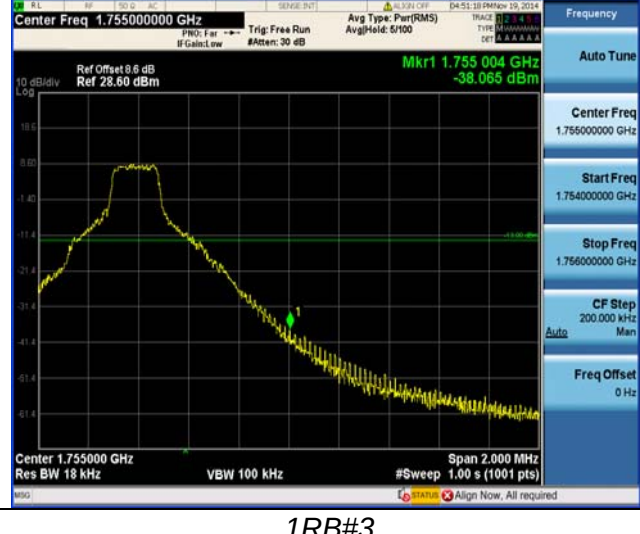
1RB#0

1RB#3



1RB#3

1RB#3



1RB#3

LTE FDD Band 4-1.4MHz Channel Bandwidth Band Edge Compliance

High Channel

QPSK



16QAM



1RB#5



1RB#5



3RB#0



3RB#0



3RB#2

3RB#2

LTE FDD Band 4-1.4MHz Channel Bandwidth Band Edge Compliance

High Channel

QPSK



16QAM



3RB#3



3RB#3



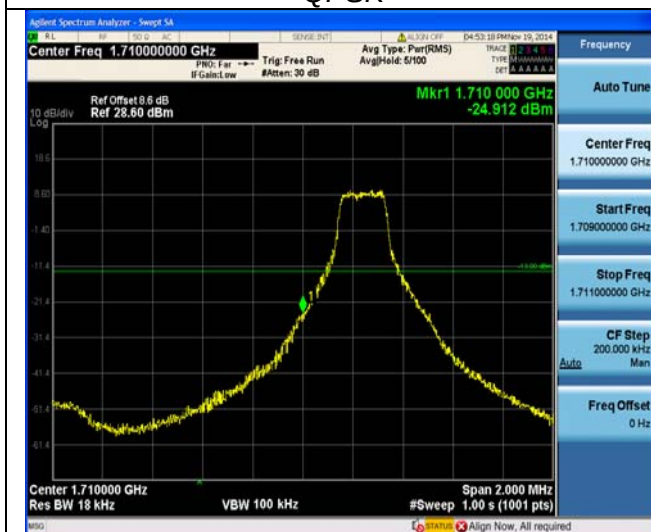
6RB#0

6RB#0

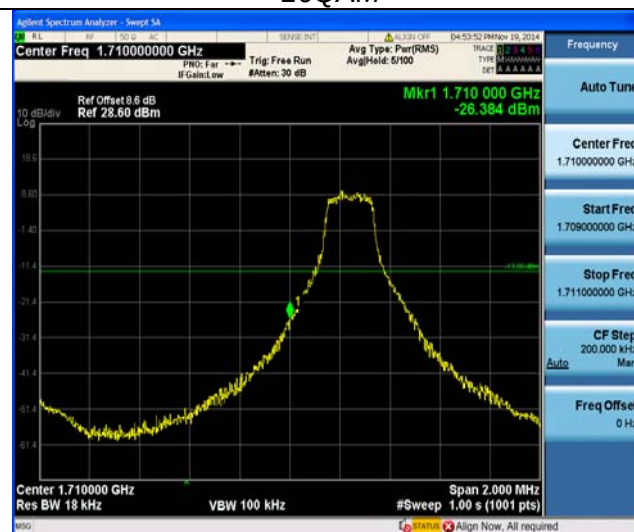
LTE FDD Band 4-3MHz Channel Bandwidth Band Edge Compliance

Low Channel

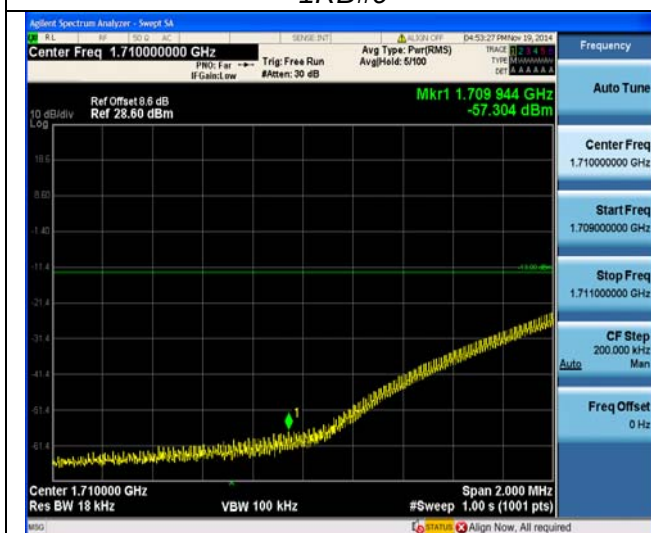
QPSK



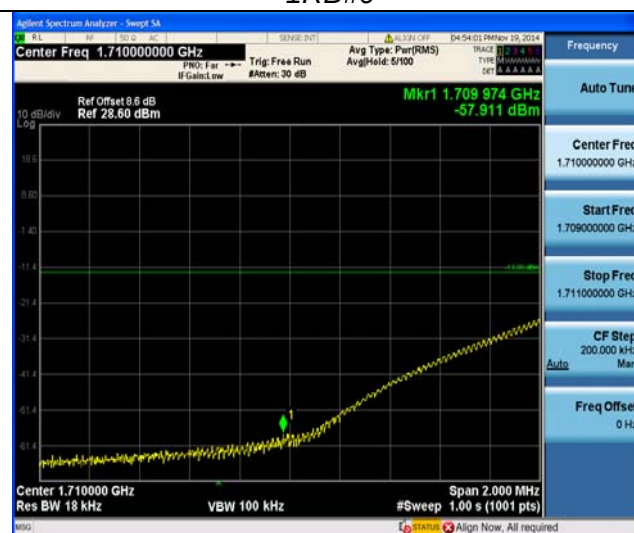
16QAM



1RB#0



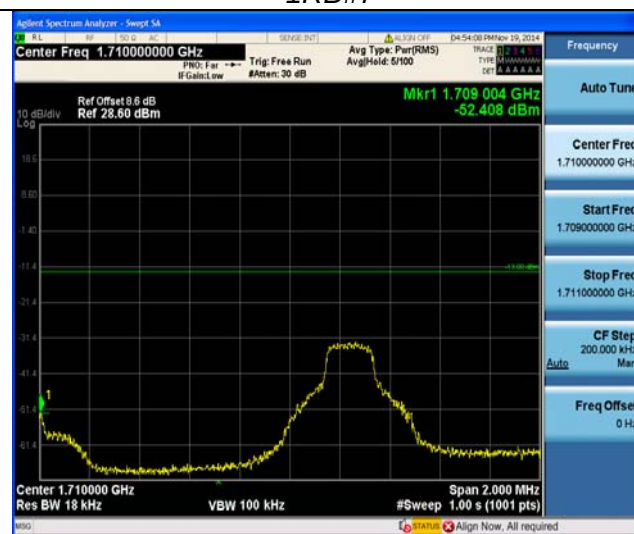
1RB#0



1RB#7



1RB#7



1RB#14

1RB#14

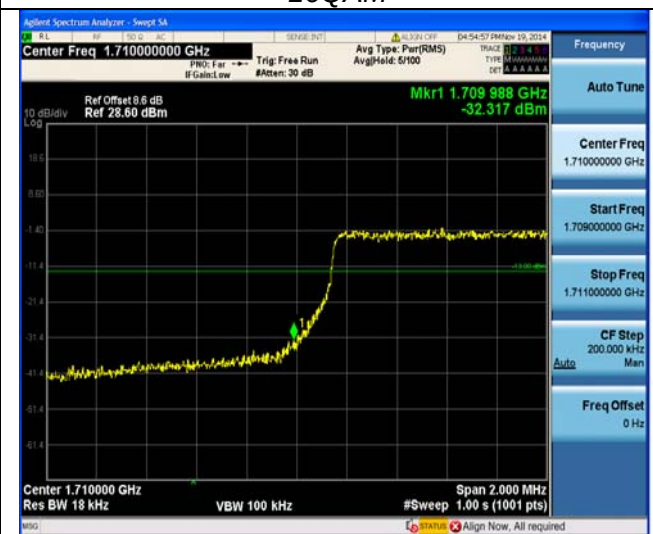
LTE FDD Band 4-3MHz Channel Bandwidth Band Edge Compliance

Low Channel

QPSK



16QAM



8RB#0



8RB#0



8RB#4



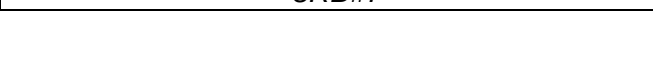
8RB#4



8RB#7



8RB#7



LTE FDD Band 4-3MHz Channel Bandwidth Band Edge Compliance

Low Channel

QPSK



15RB#0

16QAM



15RB#0

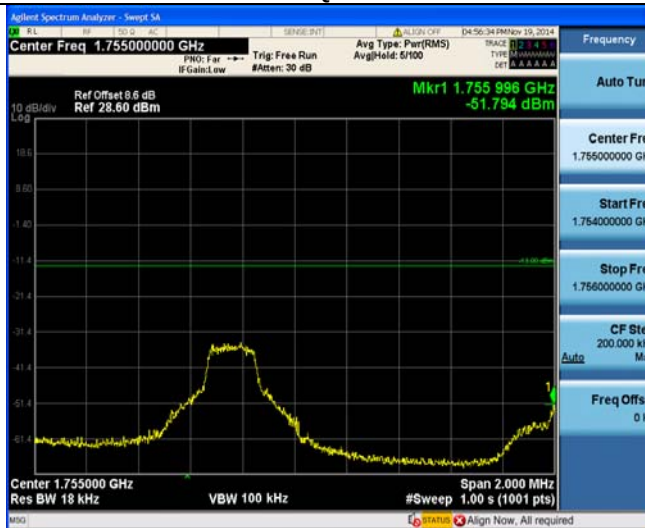
High Channel

QPSK



1RB#0

16QAM



1RB#0

1RB#7



1RB#7

1RB#7



1RB#7