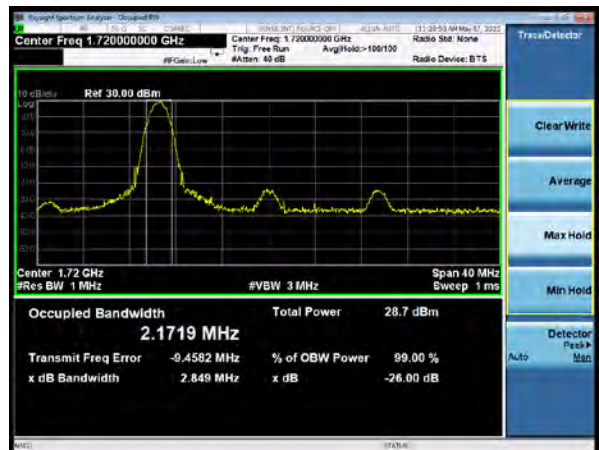


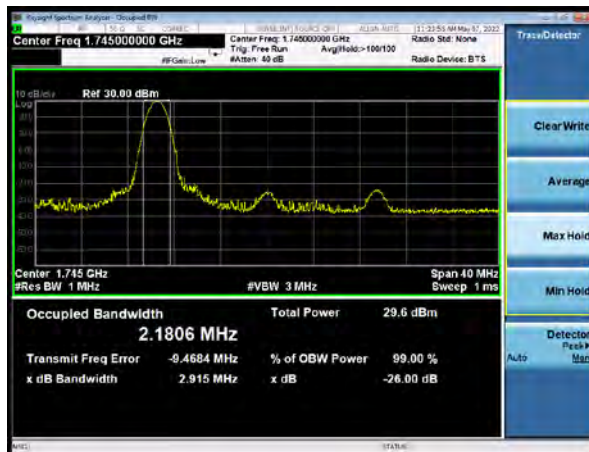
DC_5A-n66AP1/2 BPSK 1RB 20MHz CH-Low



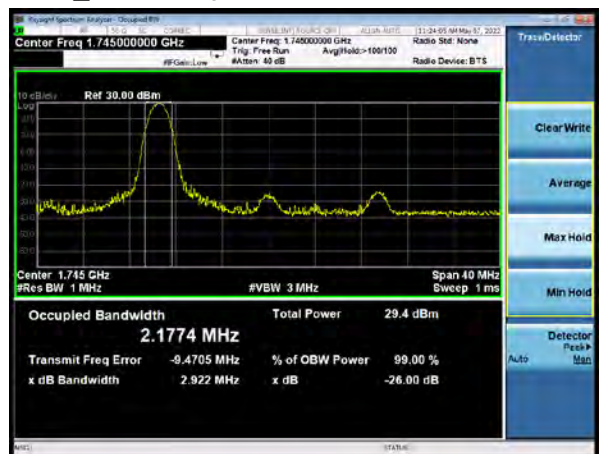
DC_5A-n66AQPSK 1RB 20MHz CH-Low



DC_5A-n66AP1/2 BPSK 1RB 20MHz CH-Middle



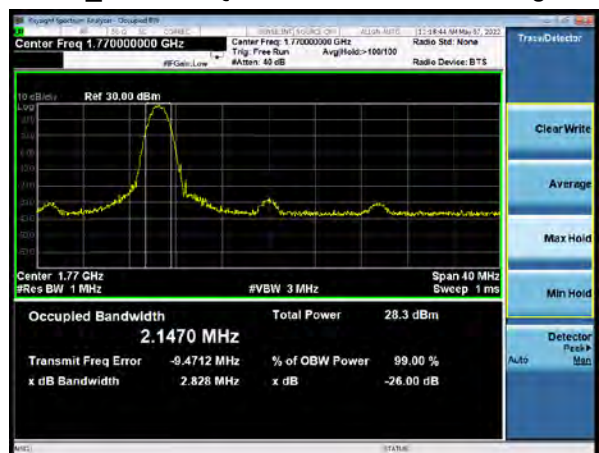
DC_5A-n66AQPSK 1RB 20MHz CH-Middle



DC_5A-n66AP1/2 BPSK 1RB 20MHz CH-High



DC_5A-n66AQPSK 1RB 20MHz CH-High





DC_5A-n66A16QAM 1RB 20MHz CH-Low



DC_5A-n66A64QAM 1RB 20MHz CH-Low



DC_5A-n66A16QAM 1RB 20MHz CH-Middle



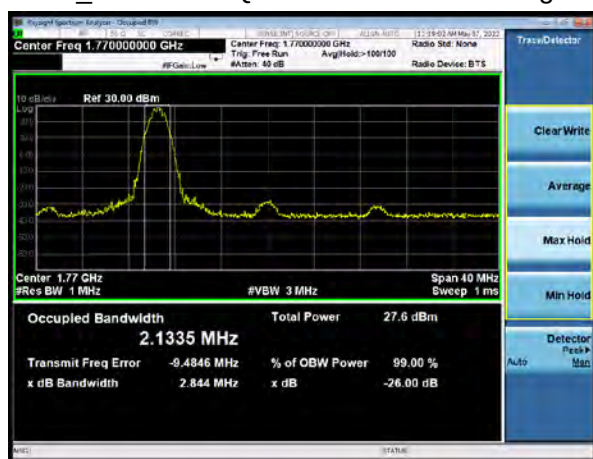
DC_5A-n66A64QAM 1RB 20MHz CH-Middle



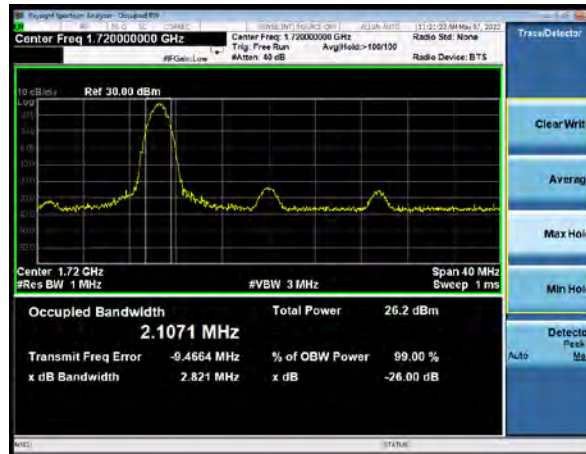
DC_5A-n66A16QAM 1RB 20MHz CH-High



DC_5A-n66A64QAM 1RB 20MHz CH-High



DC_5A-n66A256QAM 1RB 20MHz CH-Low



DC_5A-n66A256QAM 1RB 20MHz CH-Middle



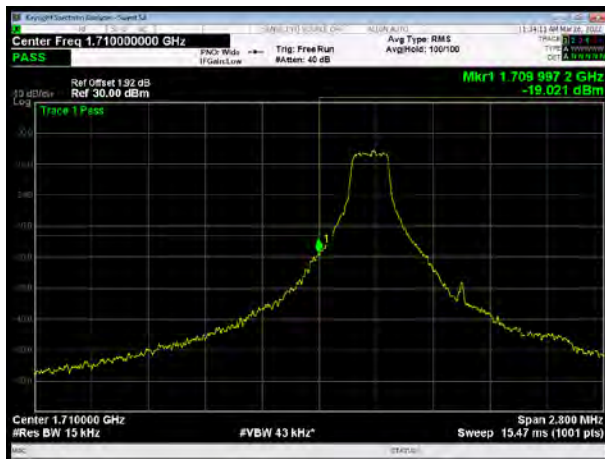
DC_5A-n66A256QAM 1RB 20MHz CH-High



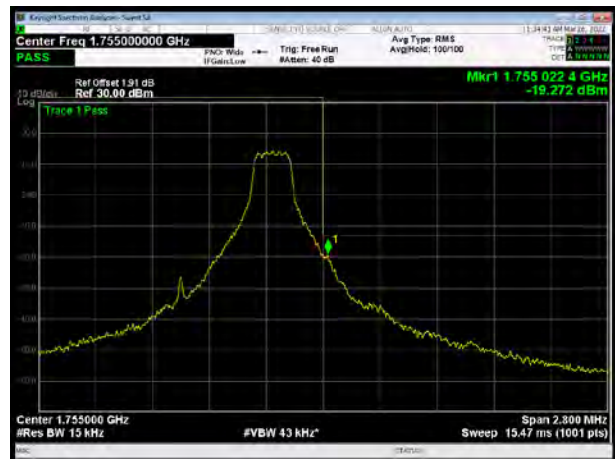
6.3 Band Edge Compliance

All the test traces in the plots shows the test results clearly.

LTE Band 4 QPSK 1.4MHz CH-Low, 1 RB



LTE Band 4 QPSK 1.4MHz CH-High, 1 RB



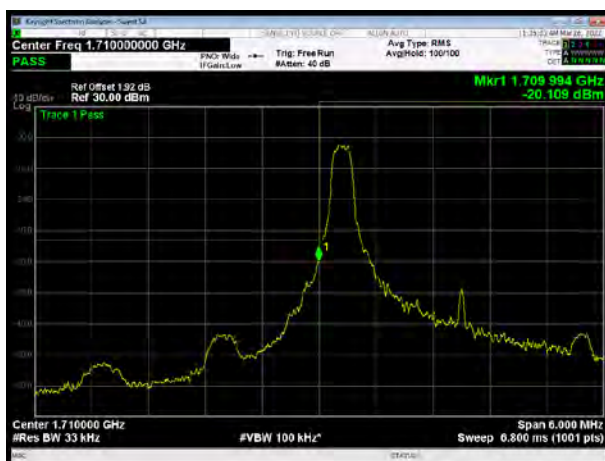
LTE Band 4 QPSK 1.4MHz CH-Low, 100%RB



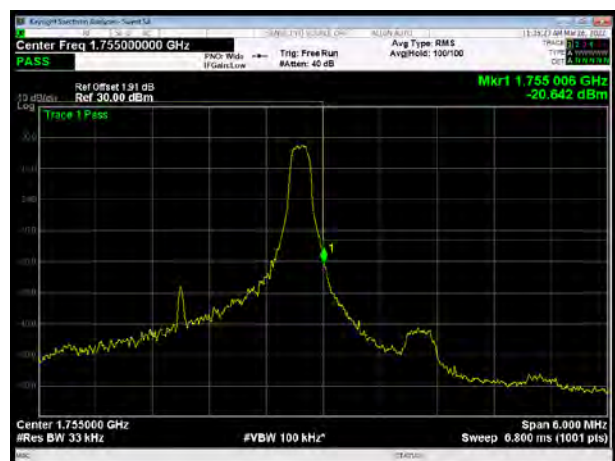
LTE Band 4 QPSK 1.4MHz CH-High, 100%RB



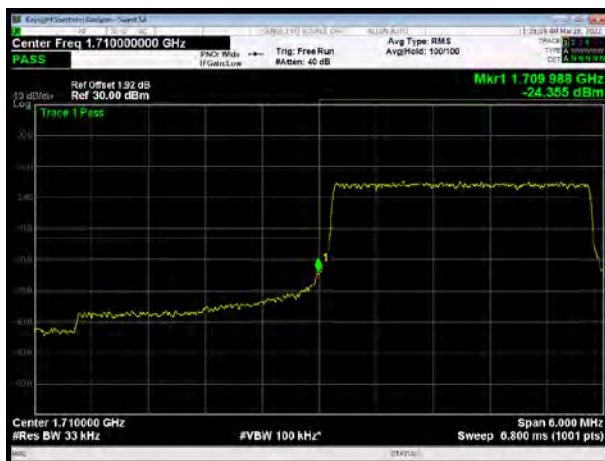
LTE Band 4 QPSK 3MHz CH-Low, 1 RB



LTE Band 4 QPSK 3MHz CH-High, 1 RB



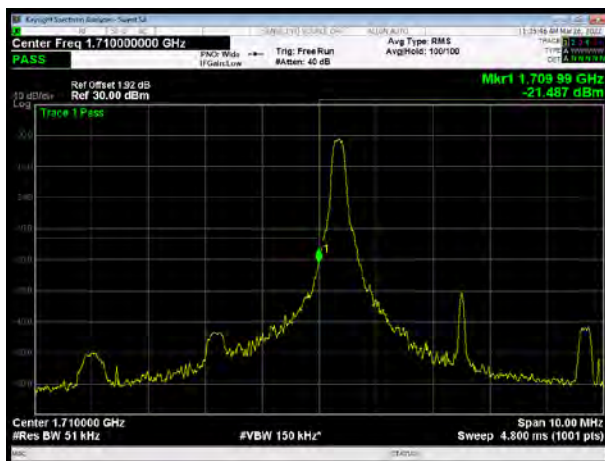
LTE Band 4 QPSK 3MHz CH-Low, 100%RB



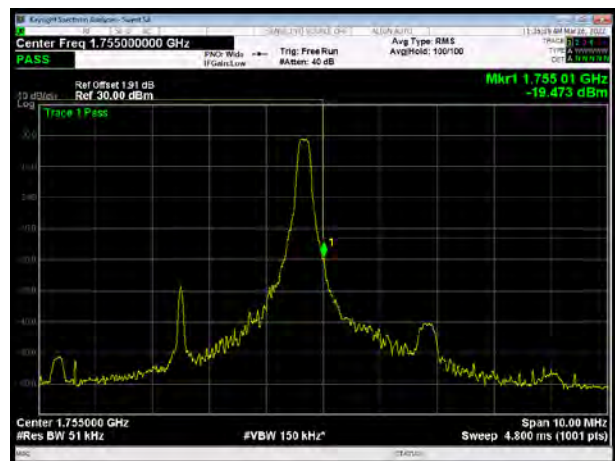
LTE Band 4 QPSK 3MHz CH-High, 100%RB



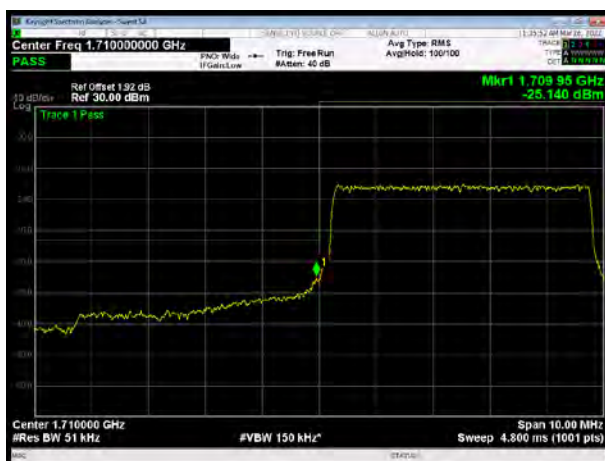
LTE Band 4 QPSK 5MHz CH-Low, 1 RB



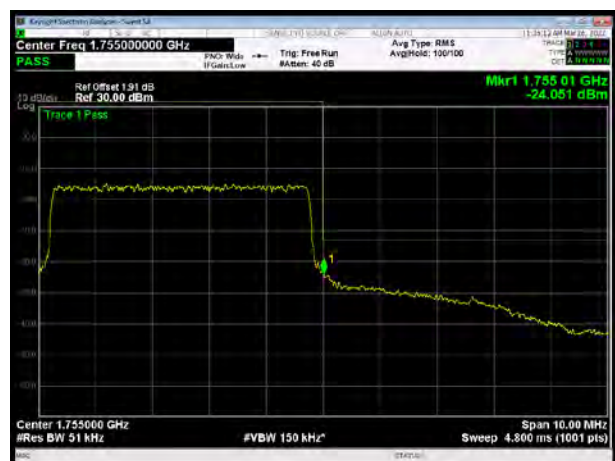
LTE Band 4 QPSK 5MHz CH-High, 1 RB



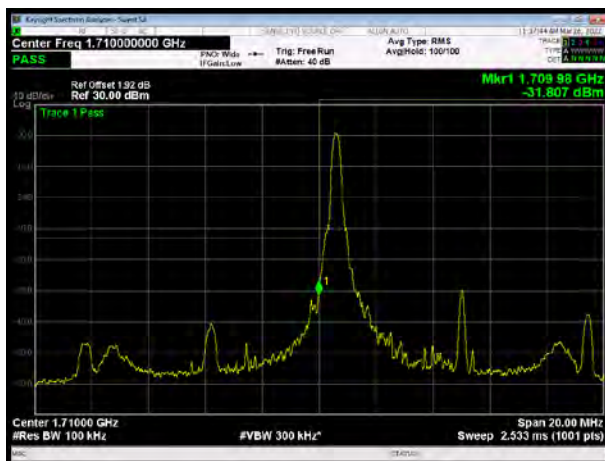
LTE Band 4 QPSK 5MHz CH-Low, 100%RB



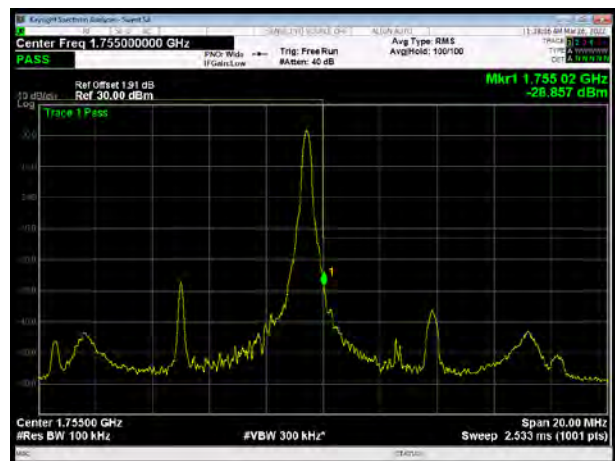
LTE Band 4 QPSK 5MHz CH-High, 100%RB



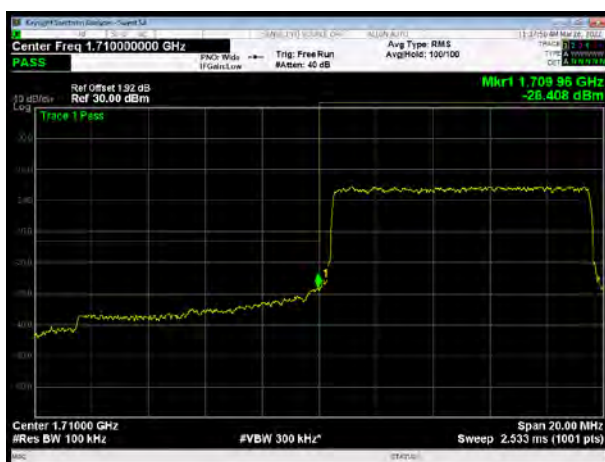
LTE Band 4 QPSK 10MHz CH-Low, 1 RB



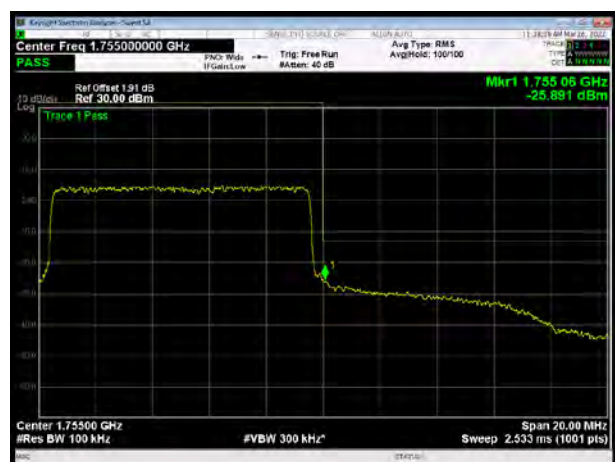
LTE Band 4 QPSK 10MHz CH-High, 1 RB



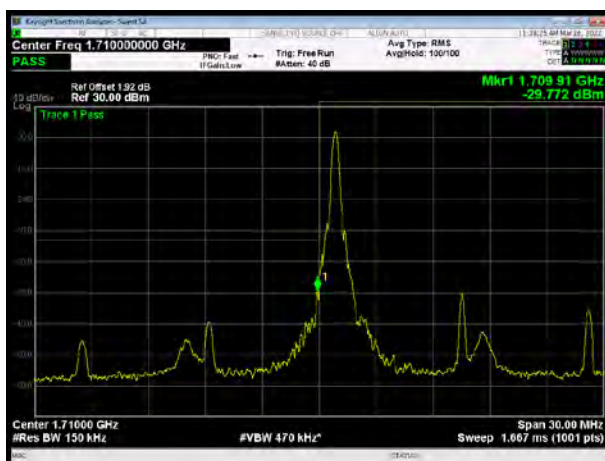
LTE Band 4 QPSK 10MHz CH-Low, 100%RB



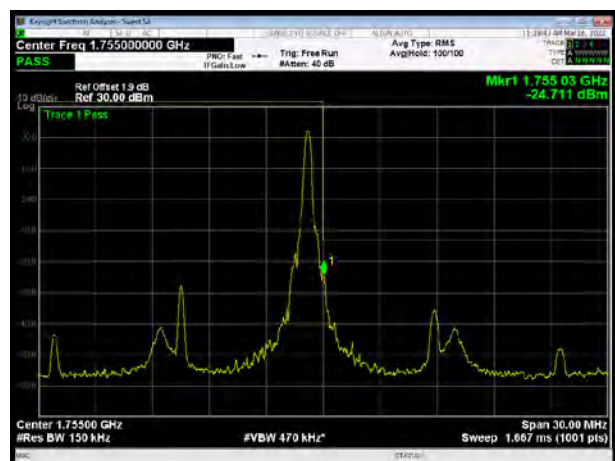
LTE Band 4 QPSK 10MHz CH-High, 100%RB



LTE Band 4 QPSK 15MHz CH-Low, 1 RB



LTE Band 4 QPSK 15MHz CH-High, 1 RB



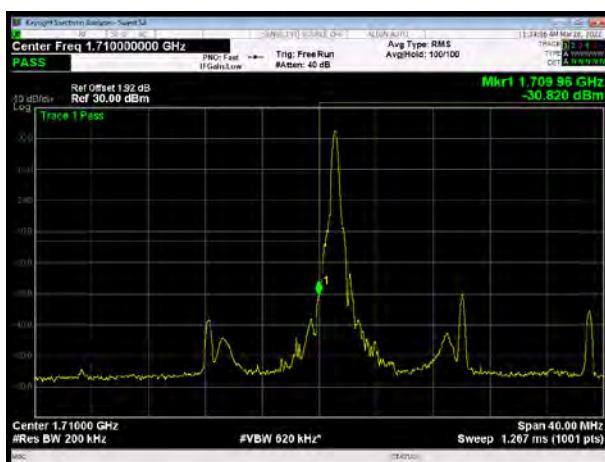
LTE Band 4 QPSK 15MHz CH-Low, 100%RB



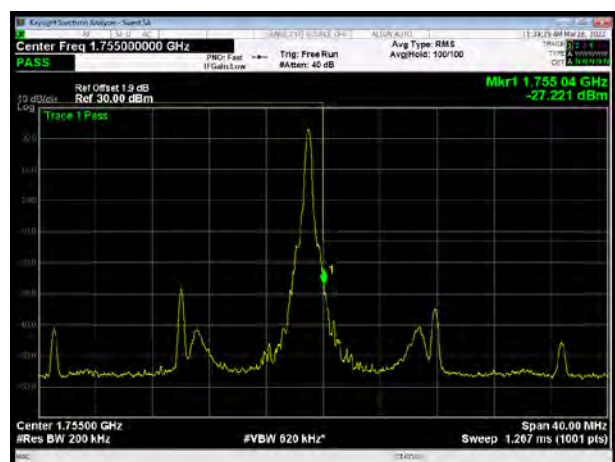
LTE Band 4 QPSK 15MHz CH-High, 100%RB



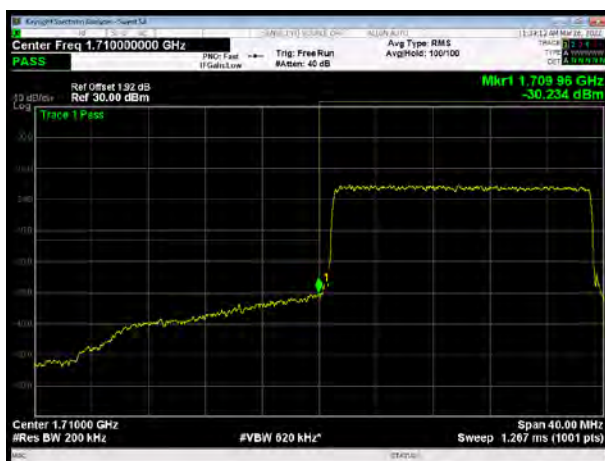
LTE Band 4 QPSK 20MHz CH-Low, 1 RB



LTE Band 4 QPSK 20MHz CH-High, 1 RB



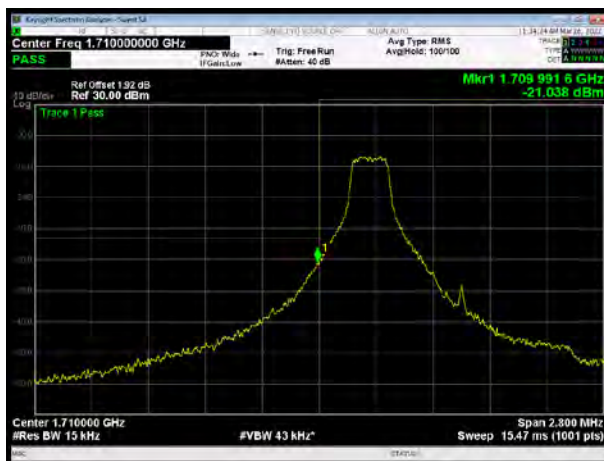
LTE Band 4 QPSK 20MHz CH-Low, 100%RB



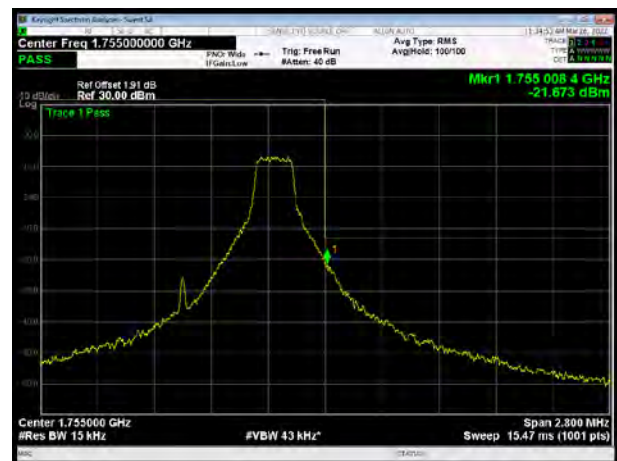
LTE Band 4 QPSK 20MHz CH-High, 100%RB



LTE Band 4 16QAM 1.4MHz CH-Low, 1 RB



LTE Band 4 16QAM 1.4MHz CH-High, 1 RB



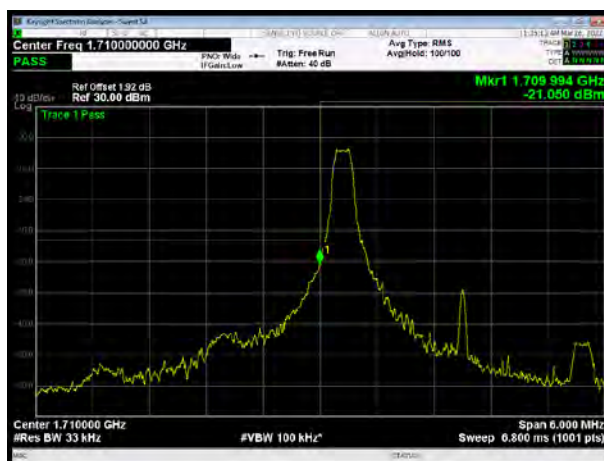
LTE Band 4 16QAM 1.4MHz CH-Low, 100%RB



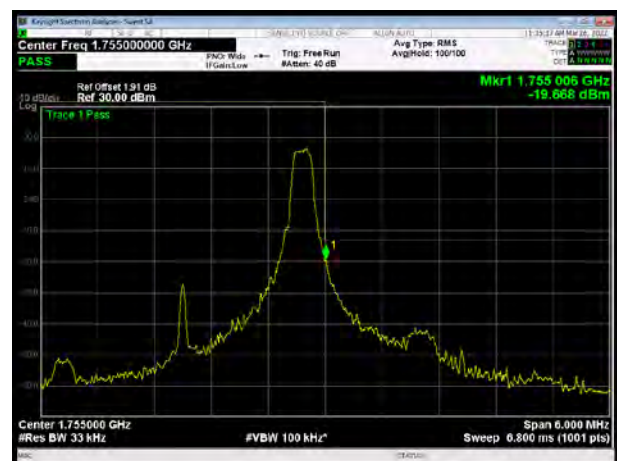
LTE Band 4 16QAM 1.4MHz CH-High, 100%RB



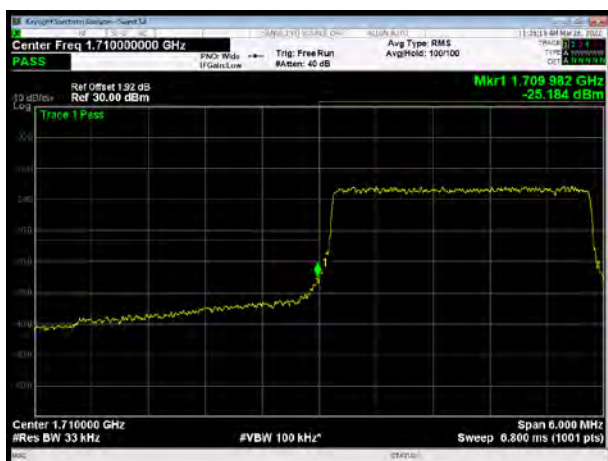
LTE Band 4 16QAM 3MHz CH-Low, 1 RB



LTE Band 4 16QAM 3MHz CH-High, 1 RB



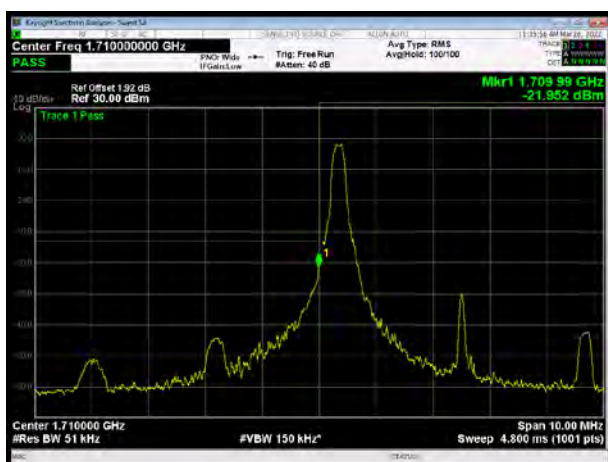
LTE Band 4 16QAM 3MHz CH-Low, 100%RB



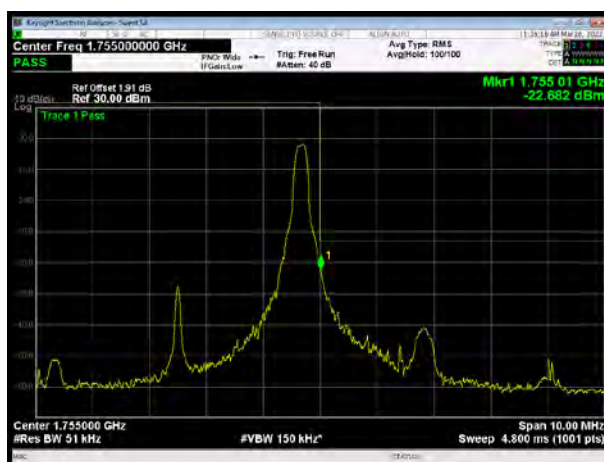
LTE Band 4 16QAM 3MHz CH-High, 100%RB



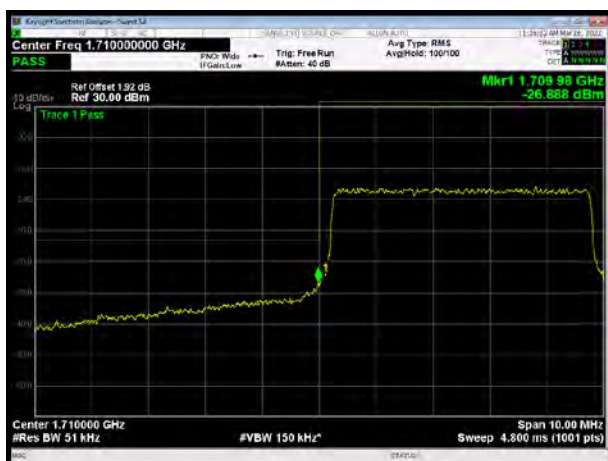
LTE Band 4 16QAM 5MHz CH-Low, 1 RB



LTE Band 4 16QAM 5MHz CH-High, 1 RB



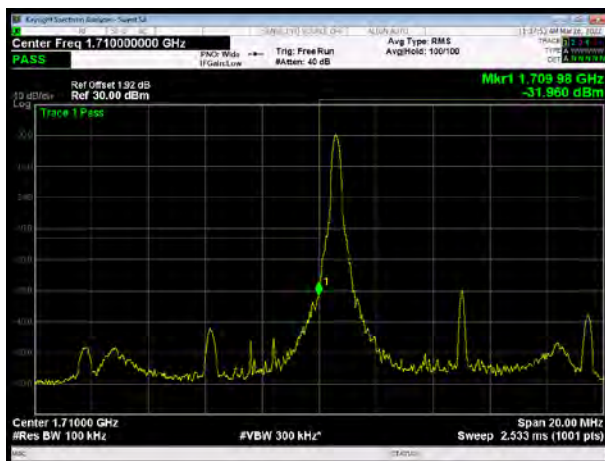
LTE Band 4 16QAM 5MHz CH-Low, 100%RB



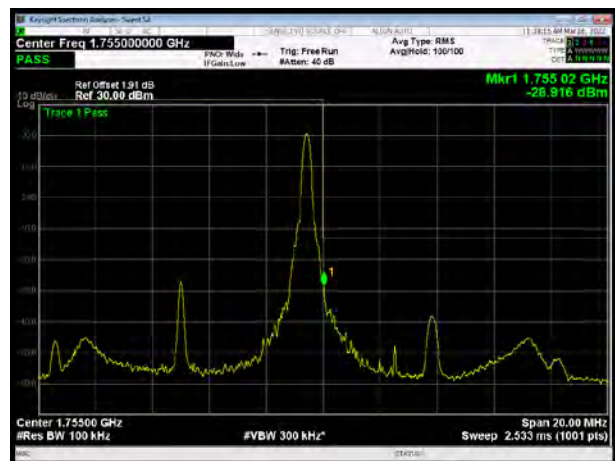
LTE Band 4 16QAM 5MHz CH-High, 100%RB



LTE Band 4 16QAM 10MHz CH-Low, 1 RB



LTE Band 4 16QAM 10MHz CH-High, 1 RB



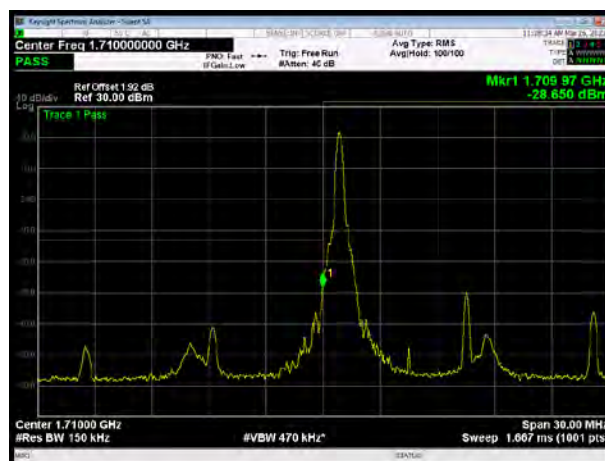
LTE Band 4 16QAM 10MHz CH-Low, 100%RB



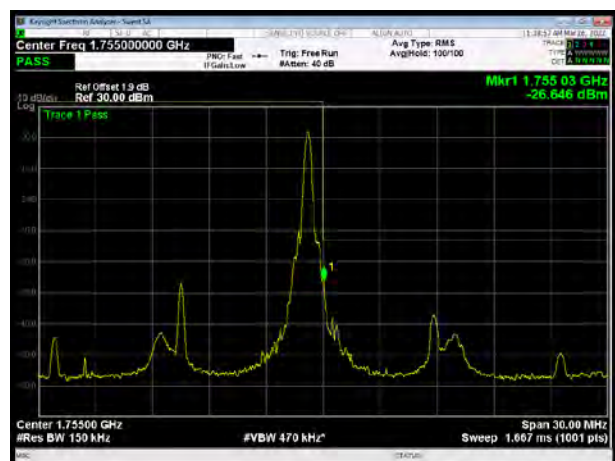
LTE Band 4 16QAM 10MHz CH-High, 100%RB



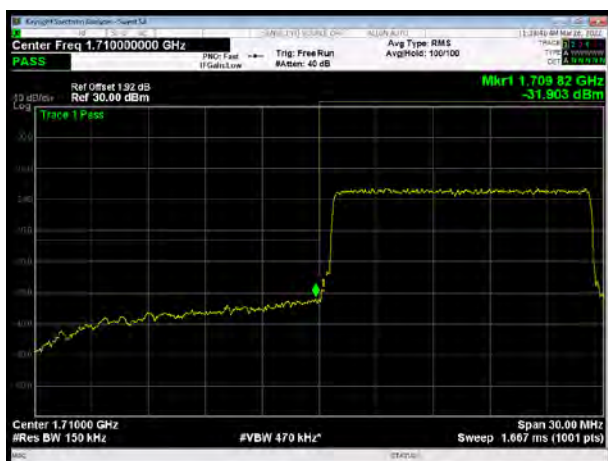
LTE Band 4 16QAM 15MHz CH-Low, 1 RB



LTE Band 4 16QAM 15MHz CH-High, 1 RB



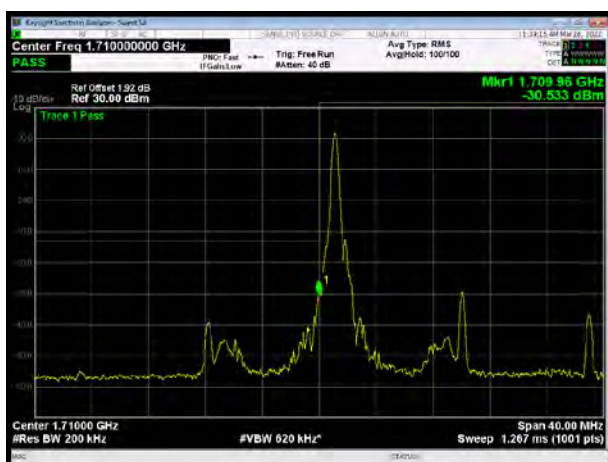
LTE Band 4 16QAM 15MHz CH-Low, 100%RB



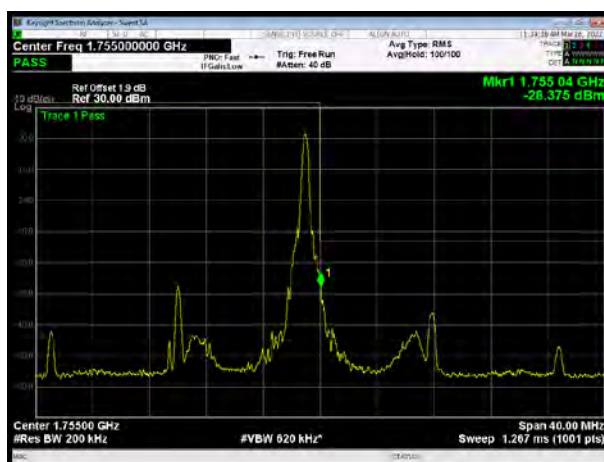
LTE Band 4 16QAM 15MHz CH-High, 100%RB



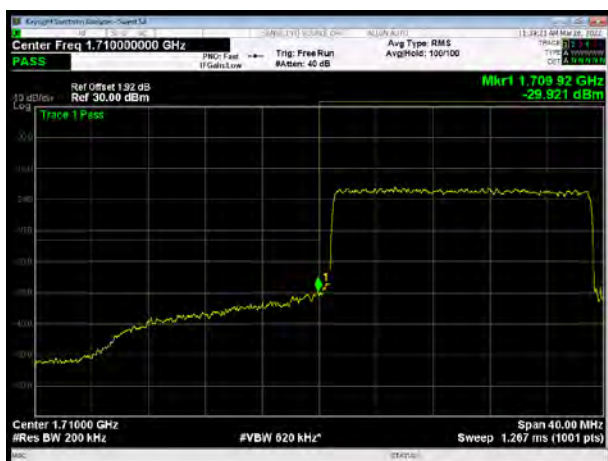
LTE Band 4 16QAM 20MHz CH-Low, 1 RB



LTE Band 4 16QAM 20MHz CH-High, 1 RB



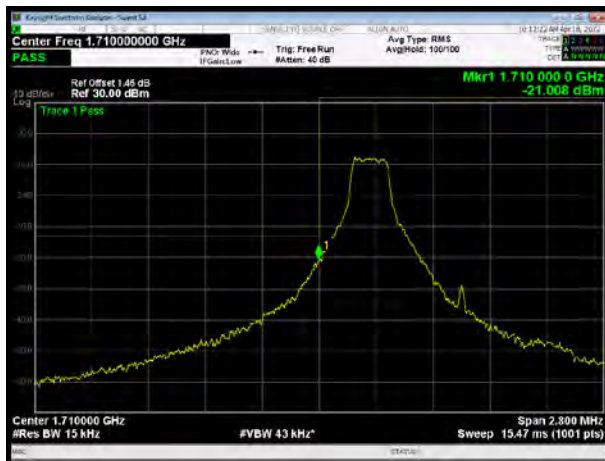
LTE Band 4 16QAM 20MHz CH-Low, 100%RB



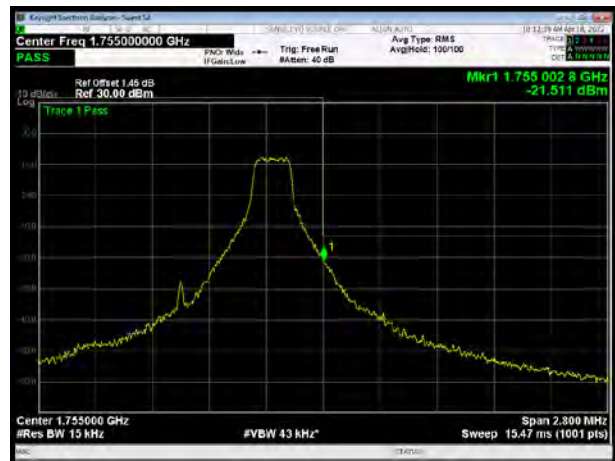
LTE Band 4 16QAM 20MHz CH-High, 100%RB



LTE Band 4 64QAM 1.4MHz CH-Low, 1 RB



LTE Band 4 64QAM 1.4MHz CH-High, 1 RB



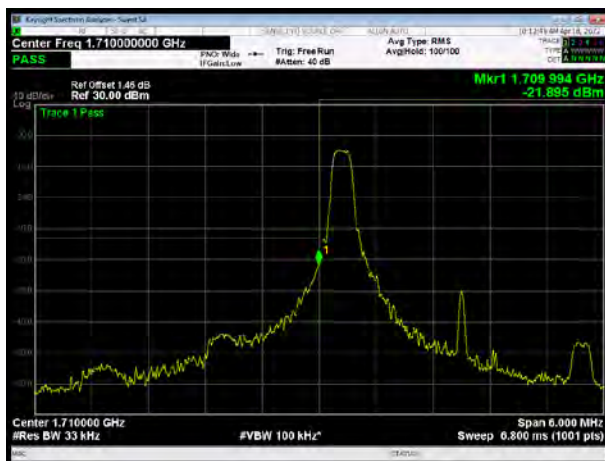
LTE Band 4 64QAM 1.4MHz CH-Low, 100%RB



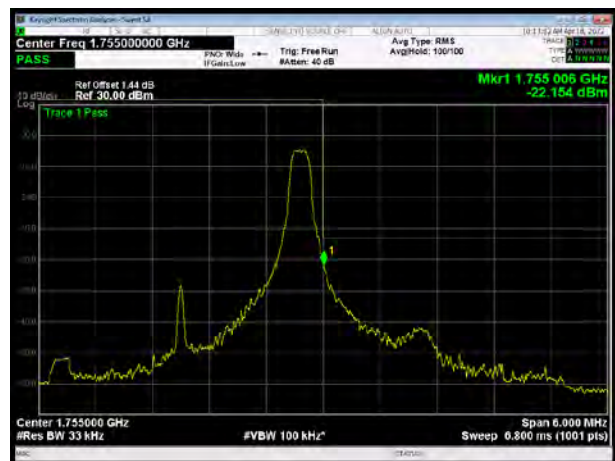
LTE Band 4 64QAM 1.4MHz CH-High, 100%RB



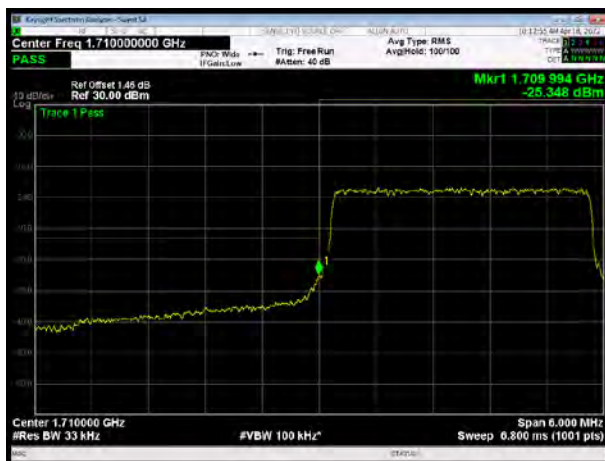
LTE Band 4 64QAM 3MHz CH-Low, 1 RB



LTE Band 4 64QAM 3MHz CH-High, 1 RB



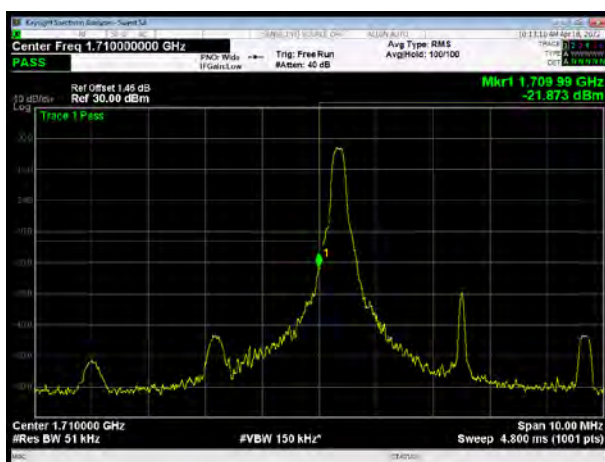
LTE Band 4 64QAM 3MHz CH-Low, 100%RB



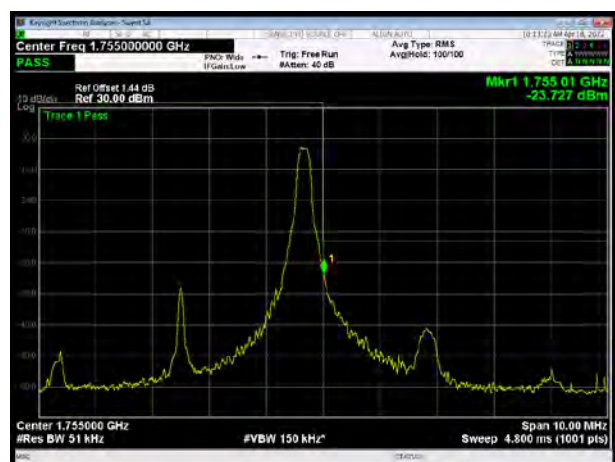
LTE Band 4 64QAM 3MHz CH-High, 100%RB



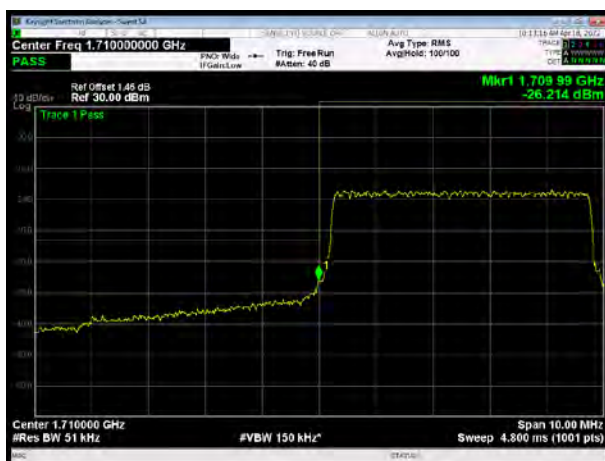
LTE Band 4 64QAM 5MHz CH-Low, 1 RB



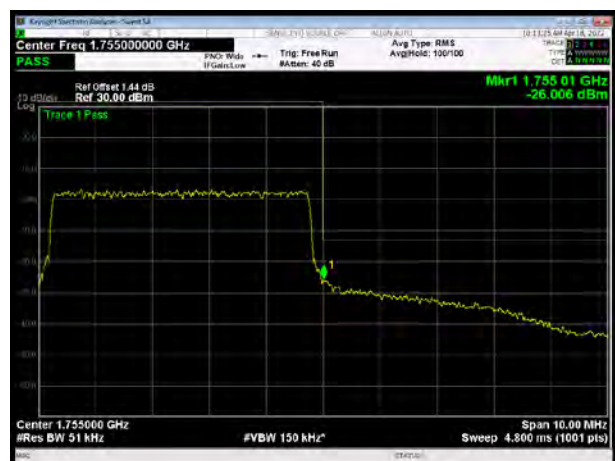
LTE Band 4 64QAM 5MHz CH-High, 1 RB



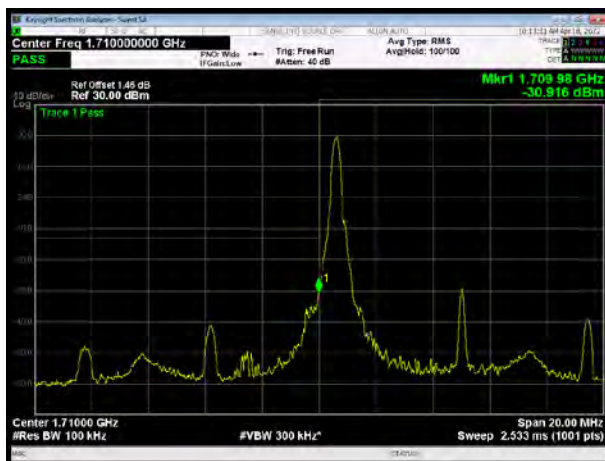
LTE Band 4 64QAM 5MHz CH-Low, 100%RB



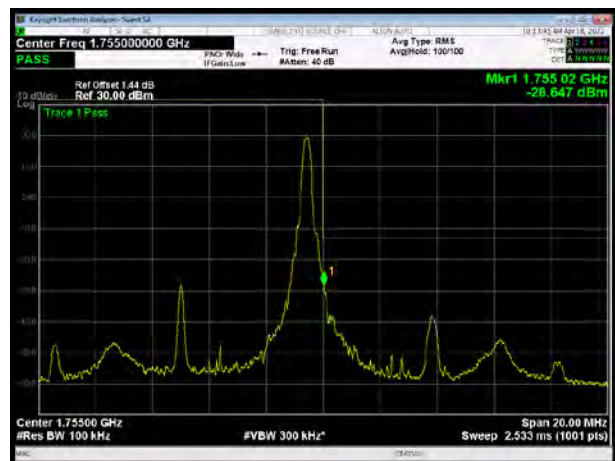
LTE Band 4 64QAM 5MHz CH-High, 100%RB



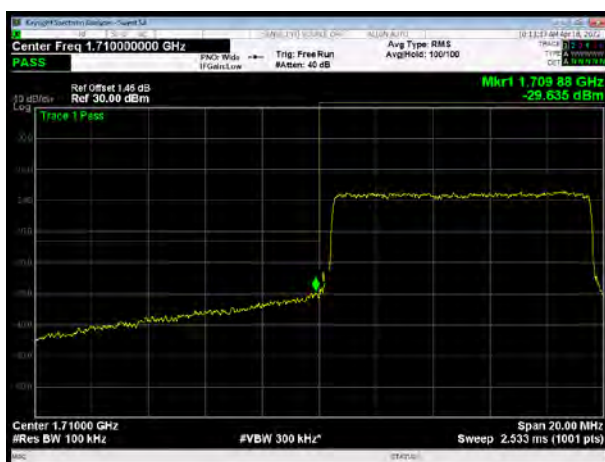
LTE Band 4 64QAM 10MHz CH-Low, 1 RB



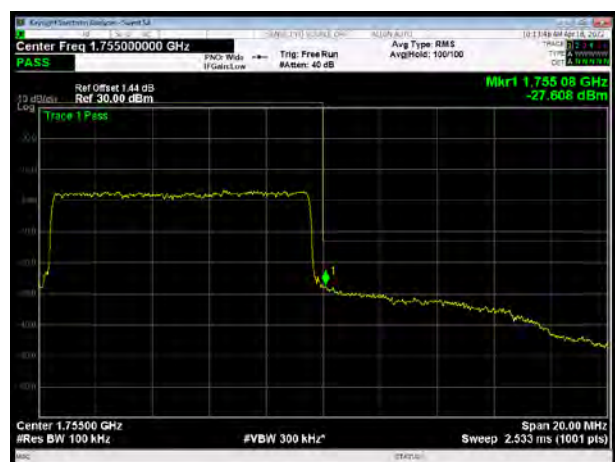
LTE Band 4 64QAM 10MHz CH-High, 1 RB



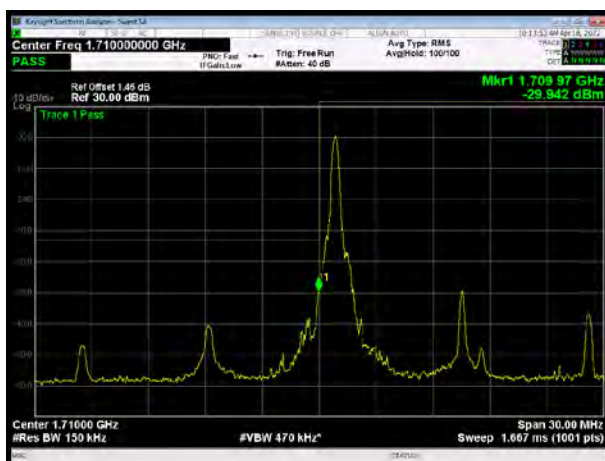
LTE Band 4 64QAM 10MHz CH-Low, 100%RB



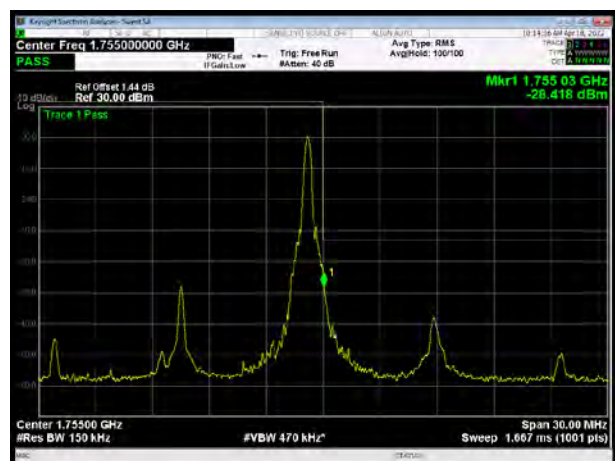
LTE Band 4 64QAM 10MHz CH-High, 100%RB



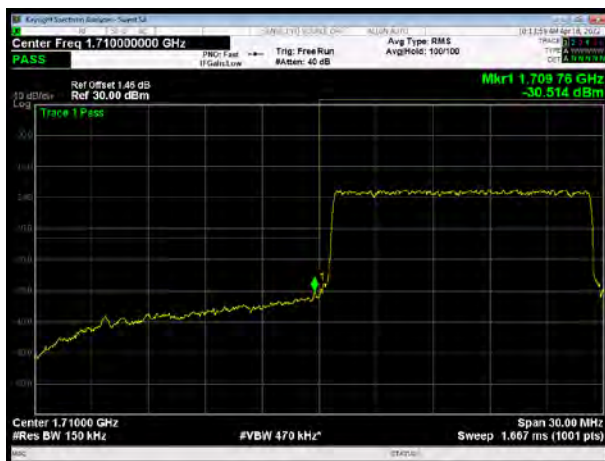
LTE Band 4 64QAM 15MHz CH-Low, 1 RB



LTE Band 4 64QAM 15MHz CH-High, 1 RB



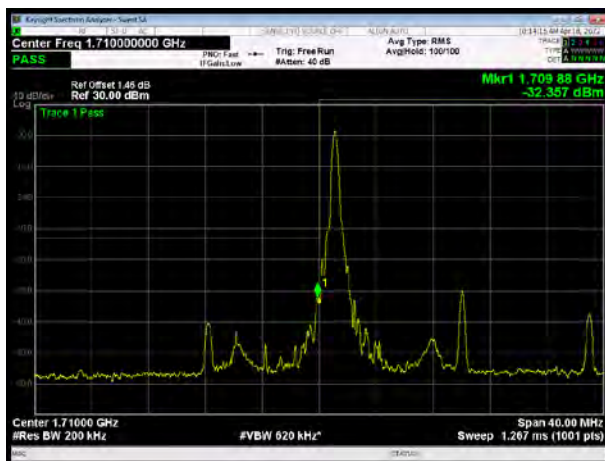
LTE Band 4 64QAM 15MHz CH-Low, 100%RB



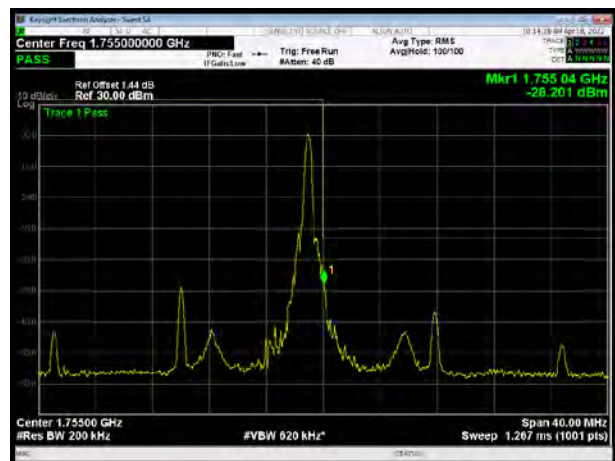
LTE Band 4 64QAM 15MHz CH-High, 100%RB



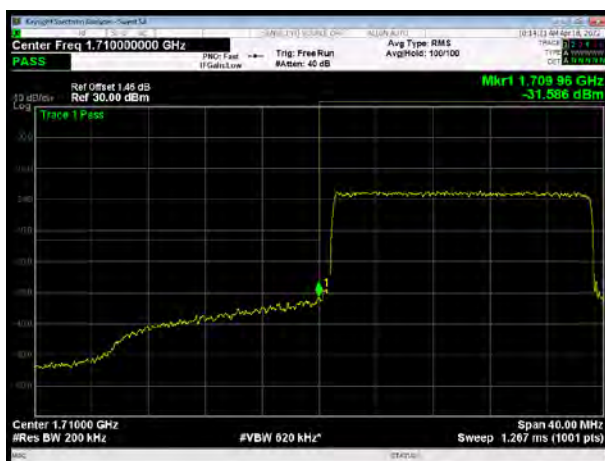
LTE Band 4 64QAM 20MHz CH-Low, 1 RB



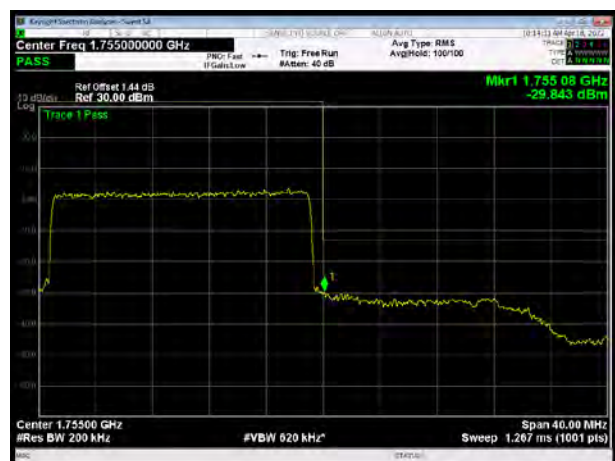
LTE Band 4 64QAM 20MHz CH-High, 1 RB



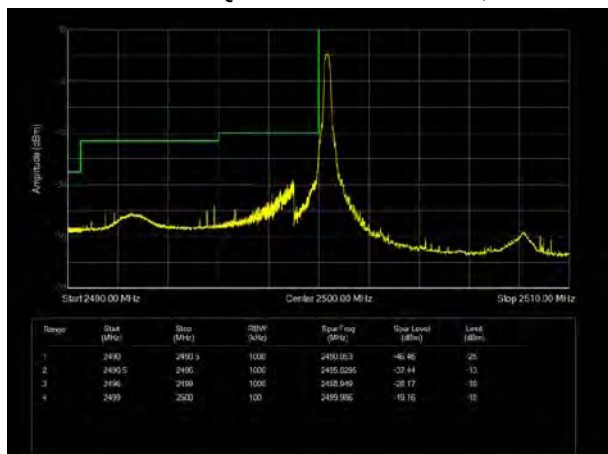
LTE Band 4 64QAM 20MHz CH-Low, 100%RB



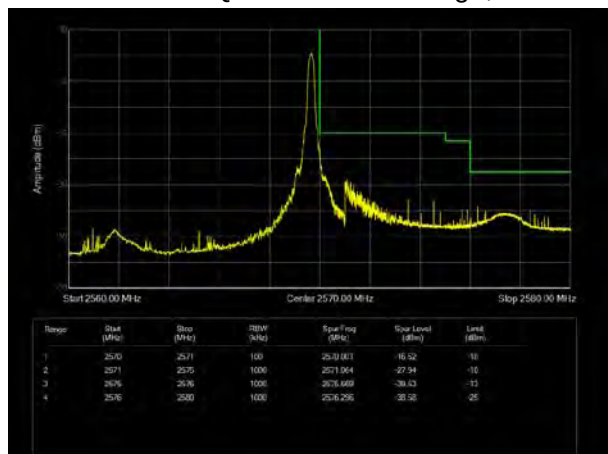
LTE Band 4 64QAM 20MHz CH-High, 100%RB



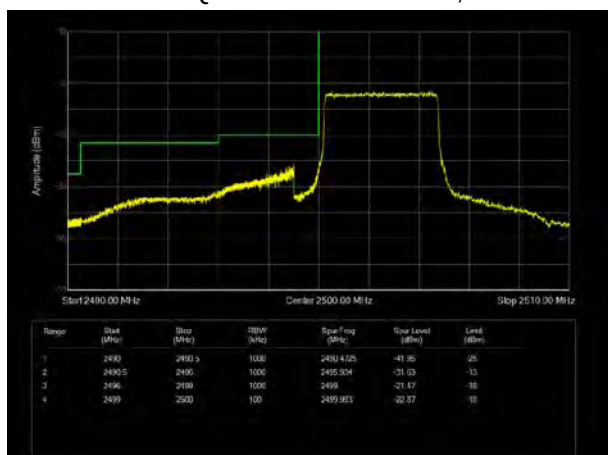
LTE Band 7 QPSK 5MHz CH-Low, 1 RB



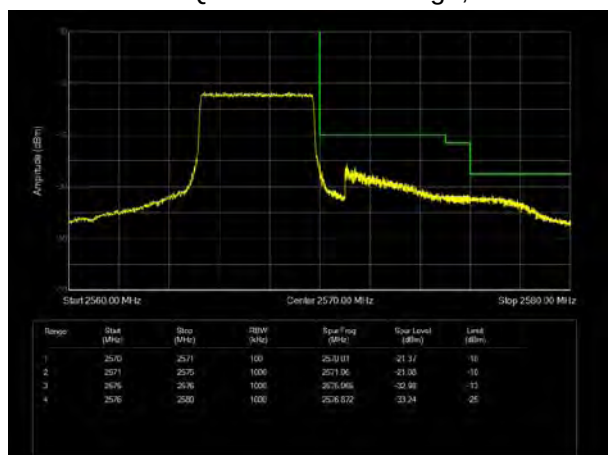
LTE Band 7 QPSK 5MHz CH-High, 1 RB



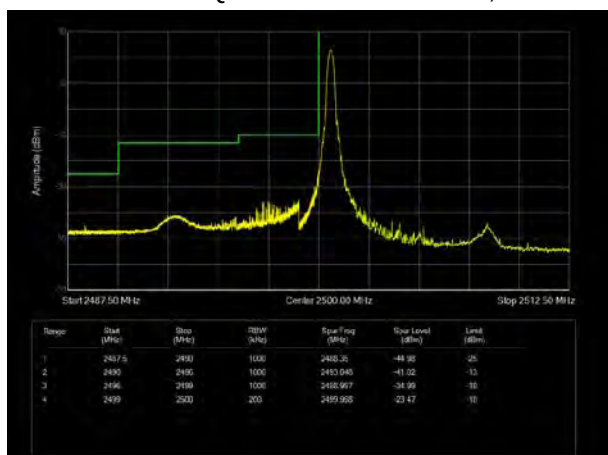
LTE Band 7 QPSK 5MHz CH-Low, 100%RB



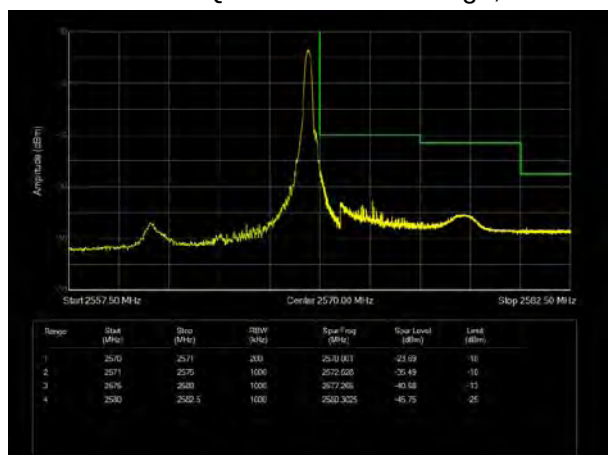
LTE Band 7 QPSK 5MHz CH-High, 100%RB



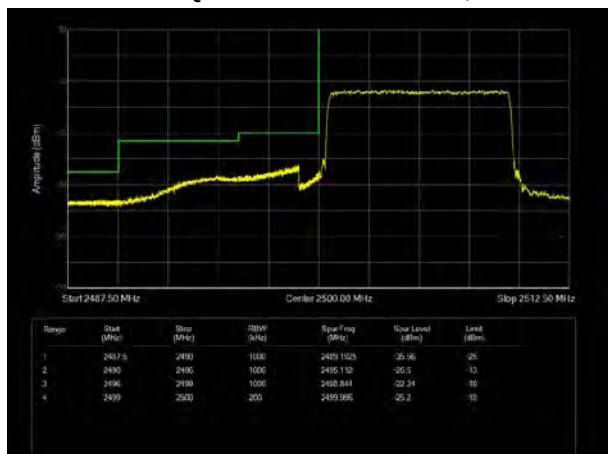
LTE Band 7 QPSK 10MHz CH-Low, 1 RB



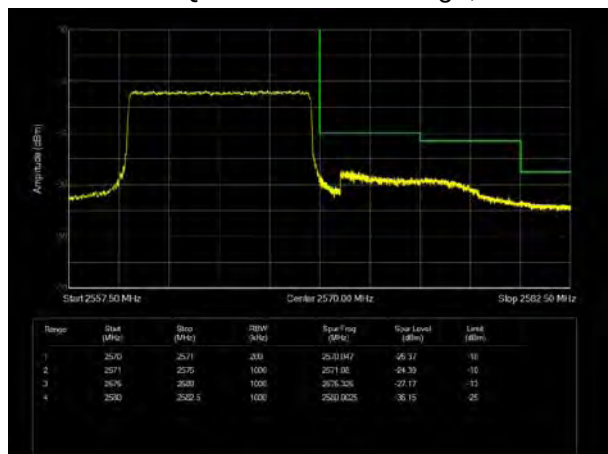
LTE Band 7 QPSK 10MHz CH-High, 1 RB



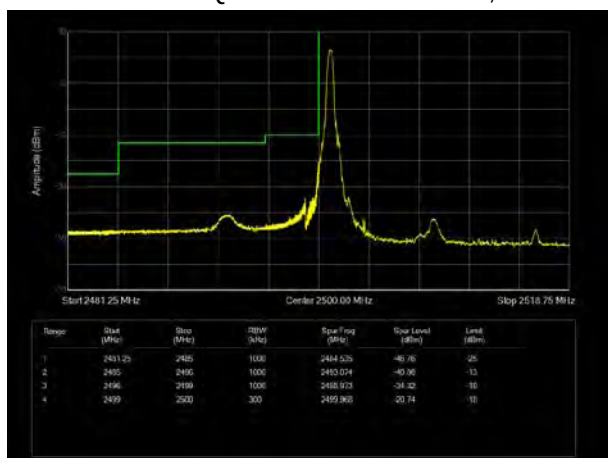
LTE Band 7 QPSK 10MHz CH-Low, 100%RB



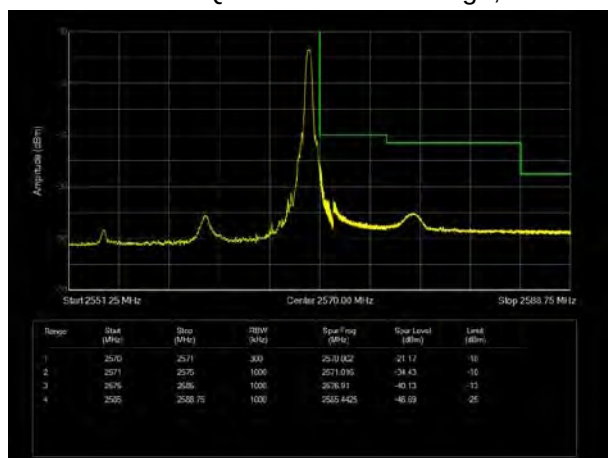
LTE Band 7 QPSK 10MHz CH-High, 100%RB



LTE Band 7 QPSK 15MHz CH-Low, 1 RB



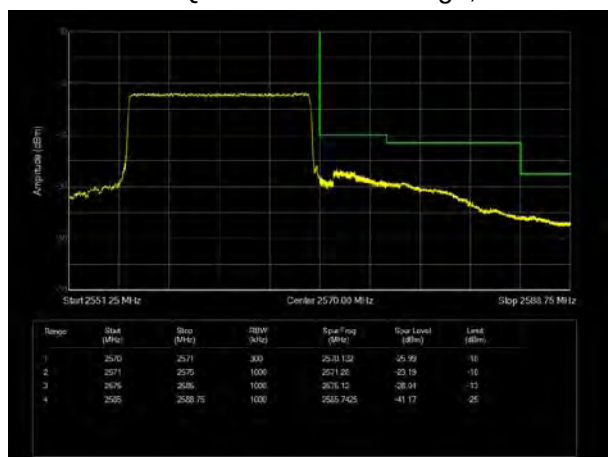
LTE Band 7 QPSK 15MHz CH-High, 1 RB



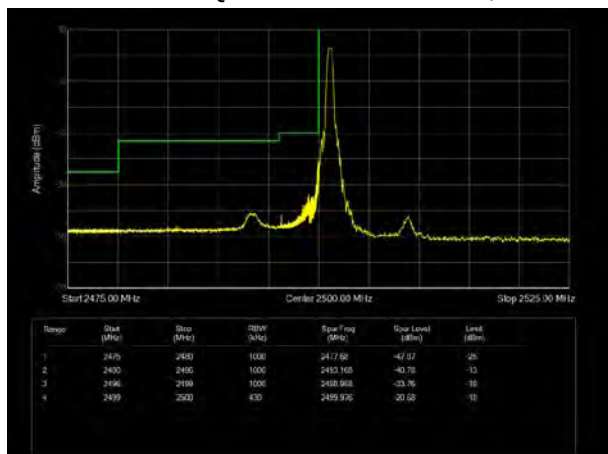
LTE Band 7 QPSK 15MHz CH-Low, 100%RB



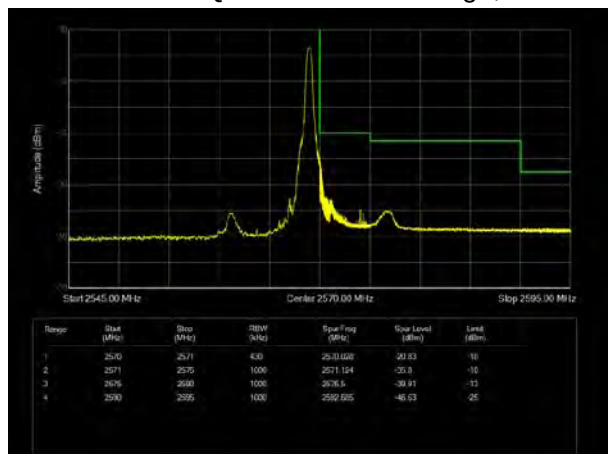
LTE Band 7 QPSK 15MHz CH-High, 100%RB



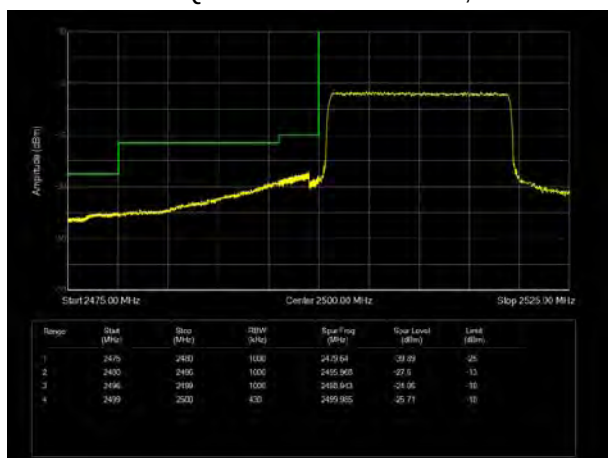
LTE Band 7 QPSK 20MHz CH-Low, 1 RB



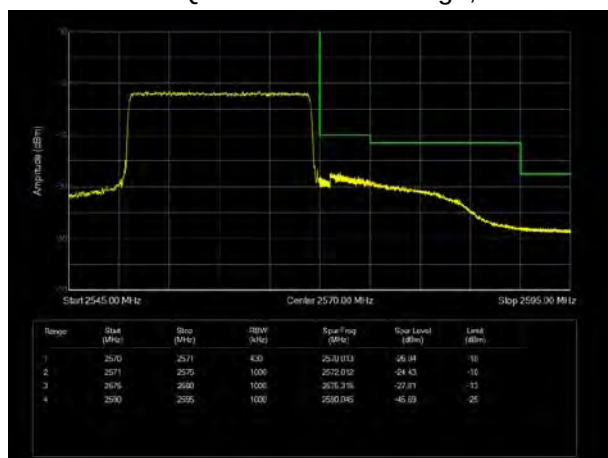
LTE Band 7 QPSK 20MHz CH-High, 1 RB



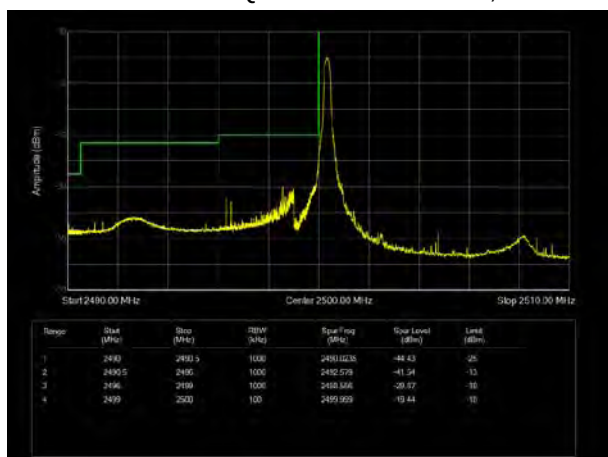
LTE Band 7 QPSK 20MHz CH-Low, 100%RB



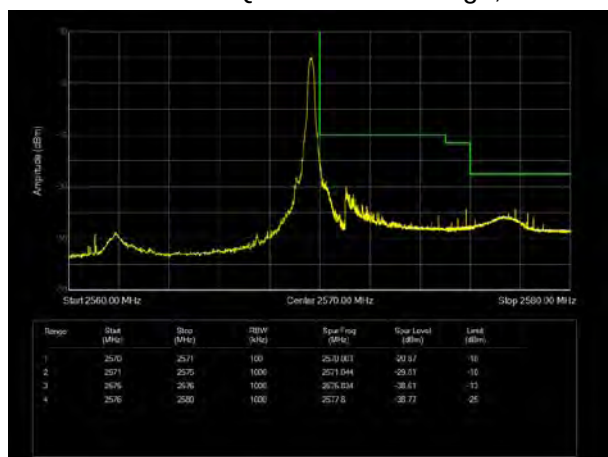
LTE Band 7 QPSK 20MHz CH-High, 100%RB



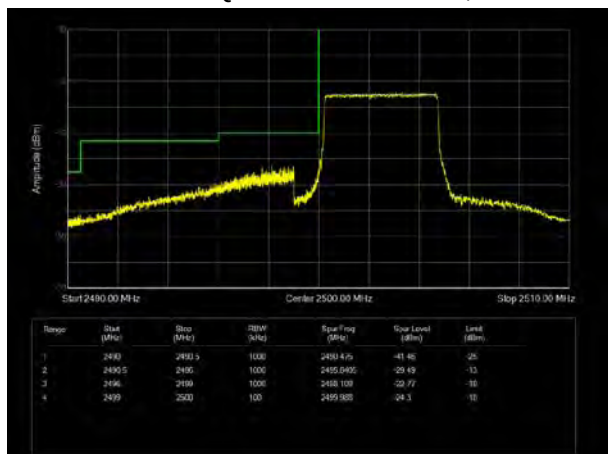
LTE Band 7 16QAM 5MHz CH-Low, 1 RB



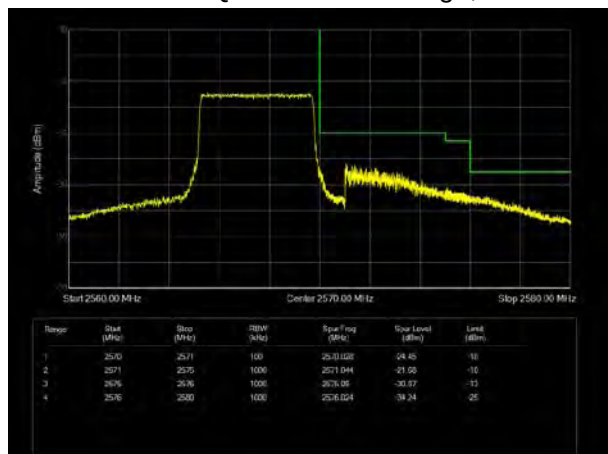
LTE Band 7 16QAM 5MHz CH-High, 1 RB



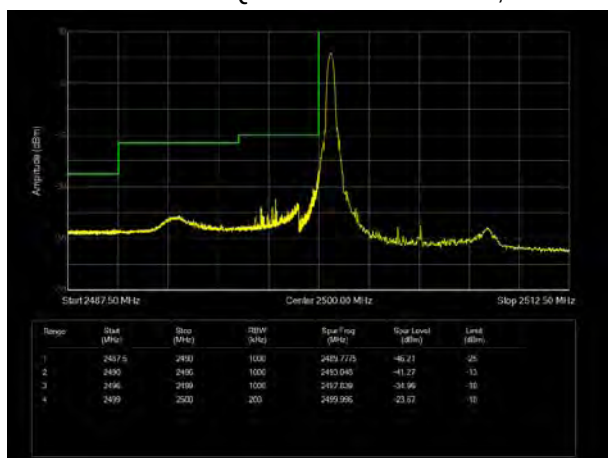
LTE Band 7 16QAM 5MHz CH-Low, 100%RB



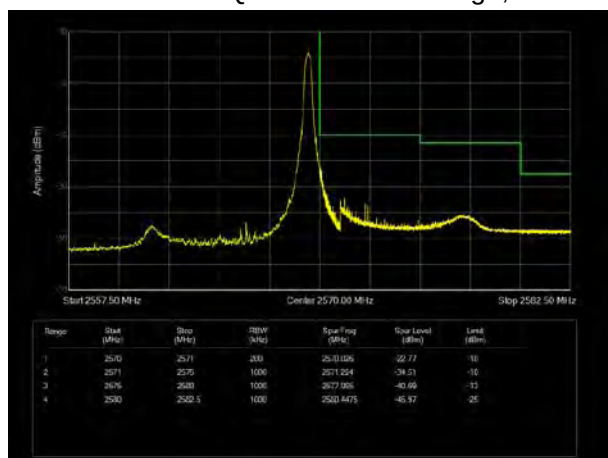
LTE Band 7 16QAM 5MHz CH-High, 100%RB



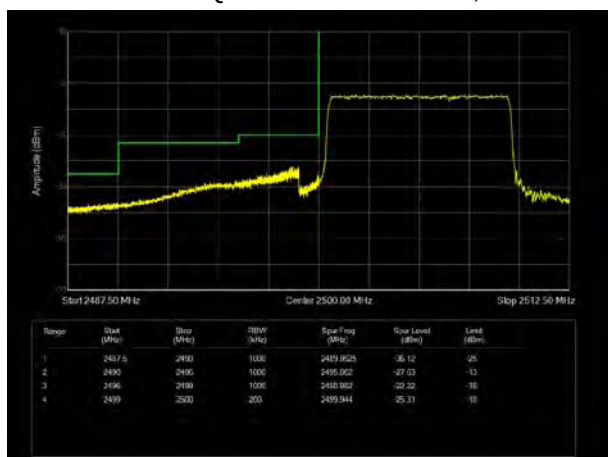
LTE Band 7 16QAM 10MHz CH-Low, 1 RB



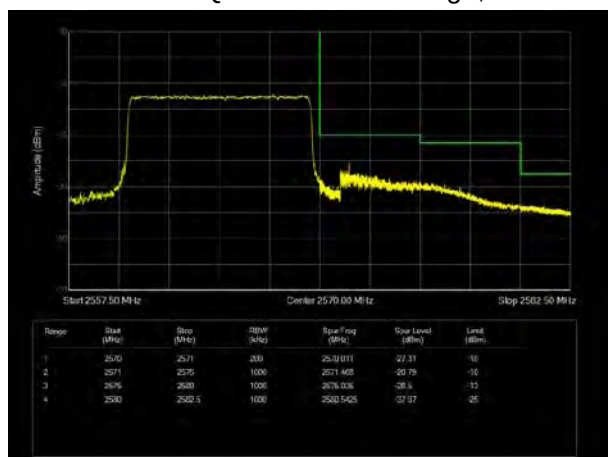
LTE Band 7 16QAM 10MHz CH-High, 1 RB



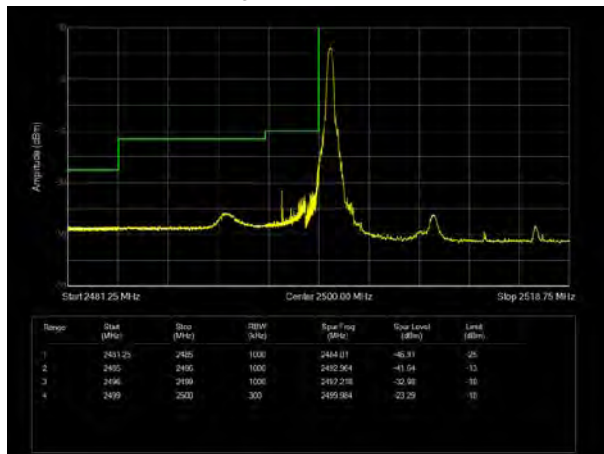
LTE Band 7 16QAM 10MHz CH-Low, 100%RB



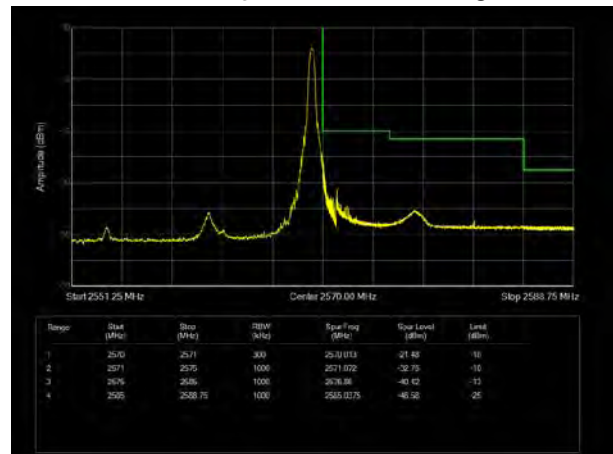
LTE Band 7 16QAM 10MHz CH-High, 100%RB



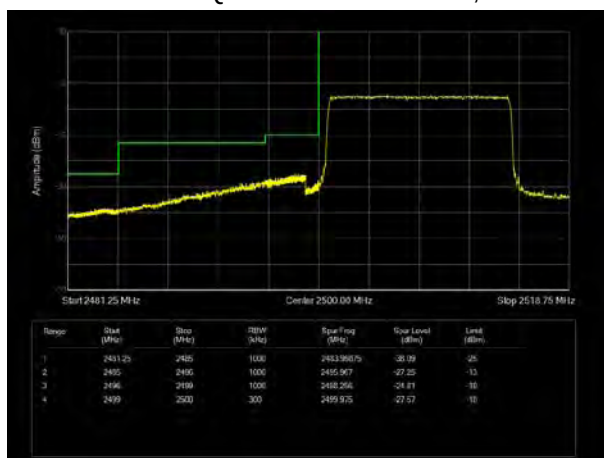
LTE Band 7 16QAM 15MHz CH-Low, 1 RB



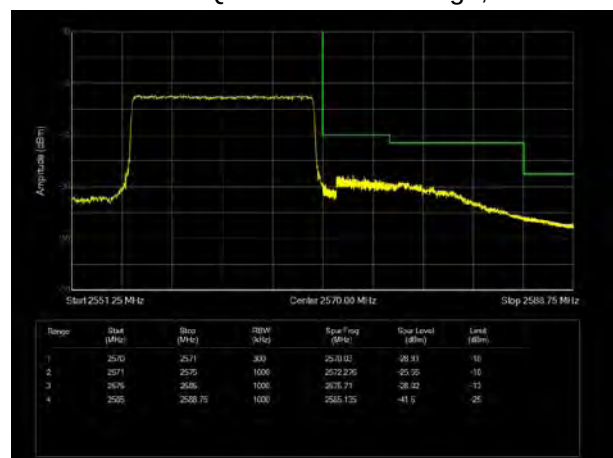
LTE Band 7 16QAM 15MHz CH-High, 1 RB



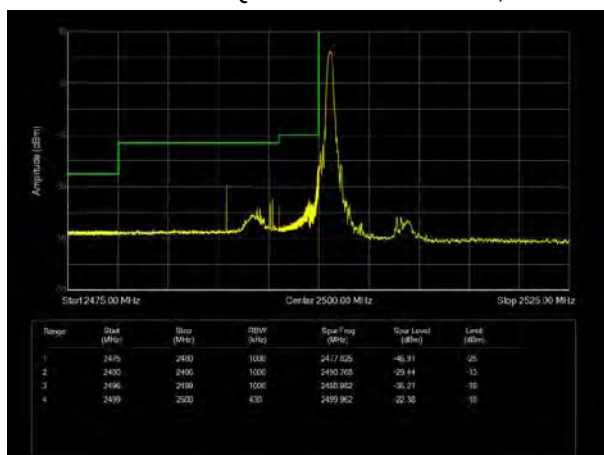
LTE Band 7 16QAM 15MHz CH-Low, 100%RB



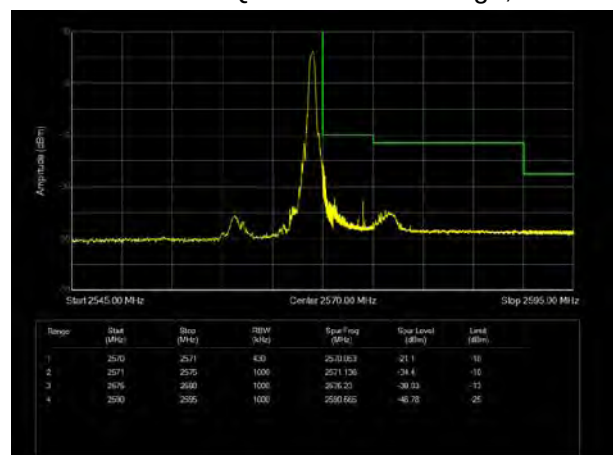
LTE Band 7 16QAM 15MHz CH-High, 100%RB



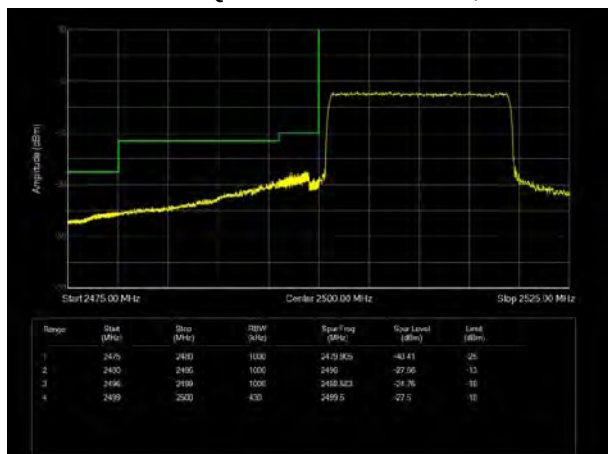
LTE Band 7 16QAM 20MHz CH-Low, 1 RB



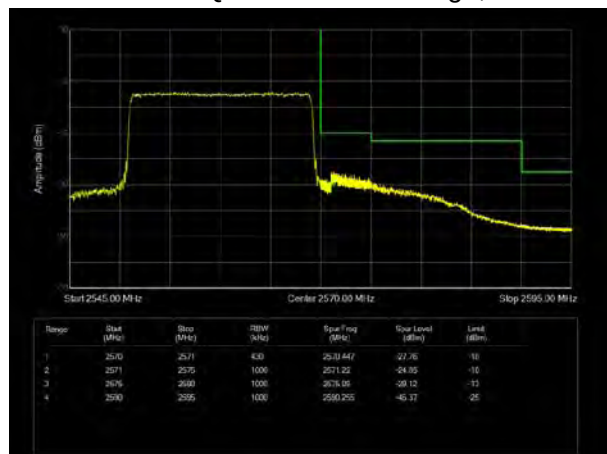
LTE Band 7 16QAM 20MHz CH-High, 1 RB



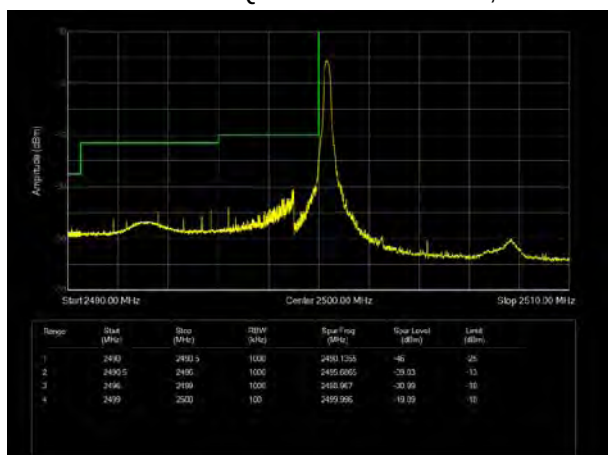
LTE Band 7 16QAM 20MHz CH-Low, 100%RB



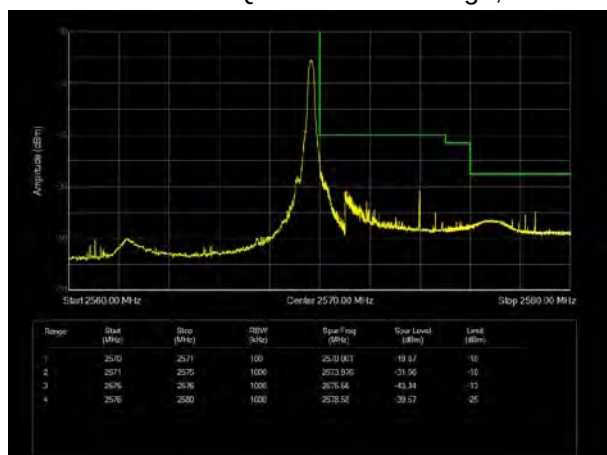
LTE Band 7 16QAM 20MHz CH-High, 100%RB



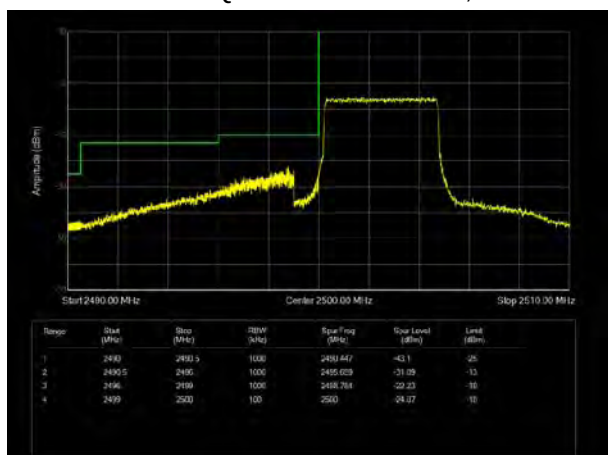
LTE Band 7 64QAM 5MHz CH-Low, 1 RB



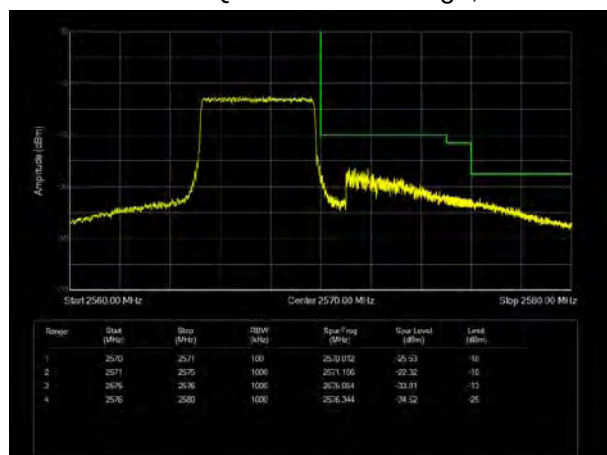
LTE Band 7 64QAM 5MHz CH-High, 1 RB



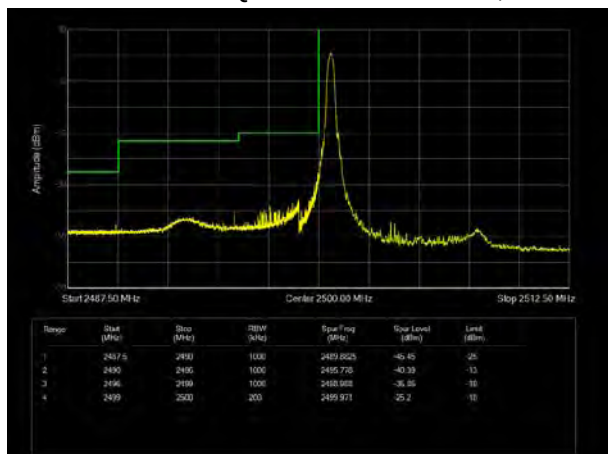
LTE Band 7 64QAM 5MHz CH-Low, 100%RB



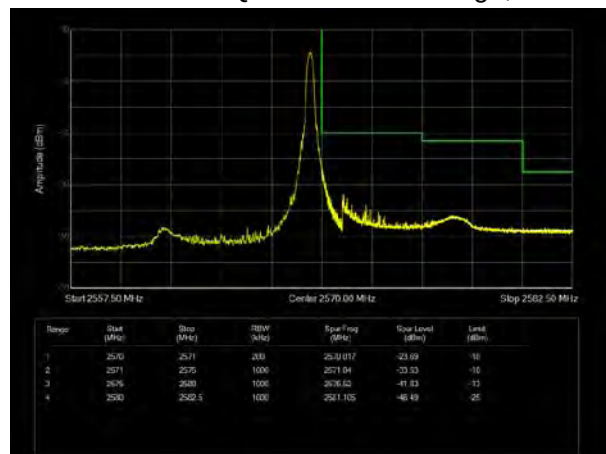
LTE Band 7 64QAM 5MHz CH-High, 100%RB



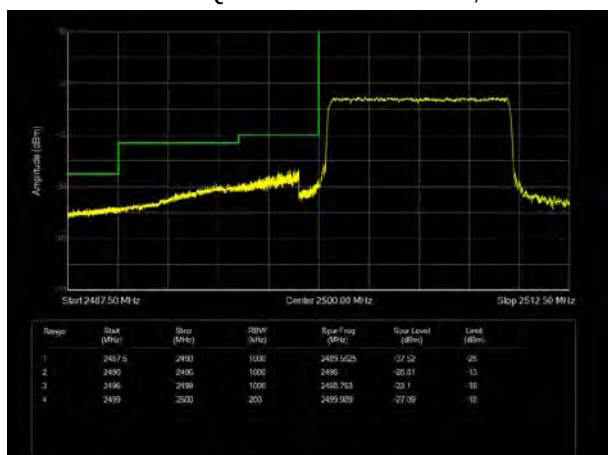
LTE Band 7 64QAM 10MHz CH-Low, 1 RB



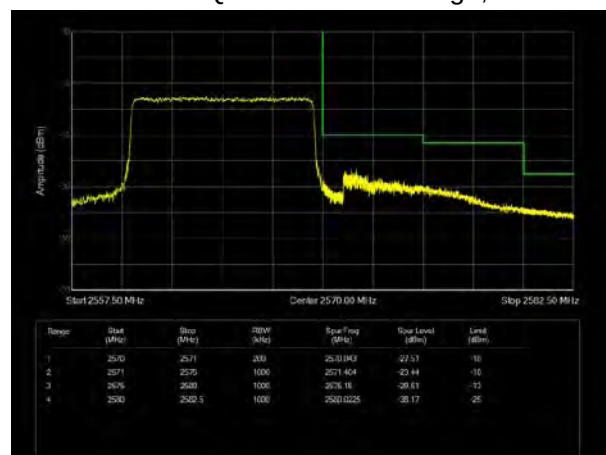
LTE Band 7 64QAM 10MHz CH-High, 1 RB



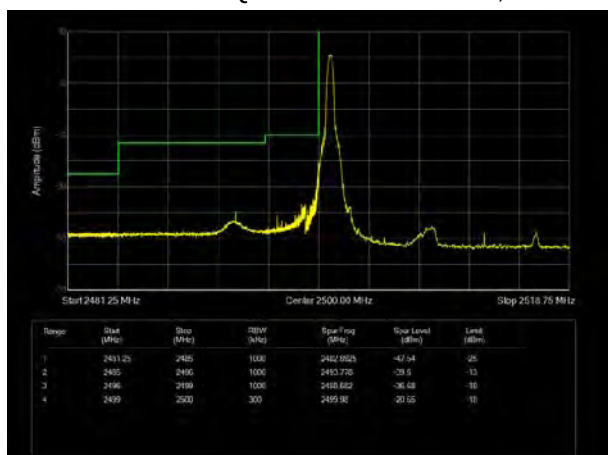
LTE Band 7 64QAM 10MHz CH-Low, 100%RB



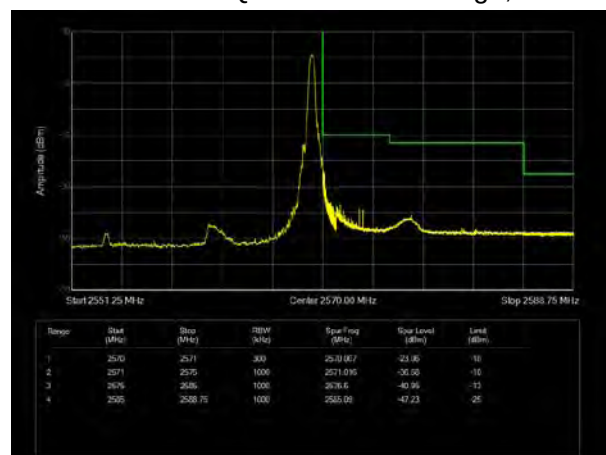
LTE Band 7 64QAM 10MHz CH-High, 100%RB



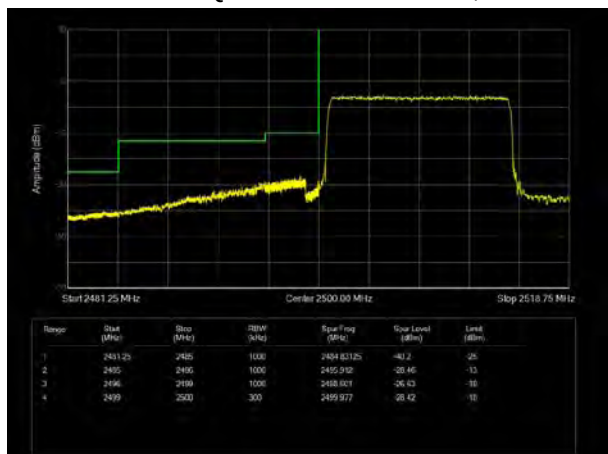
LTE Band 7 64QAM 15MHz CH-Low, 1 RB



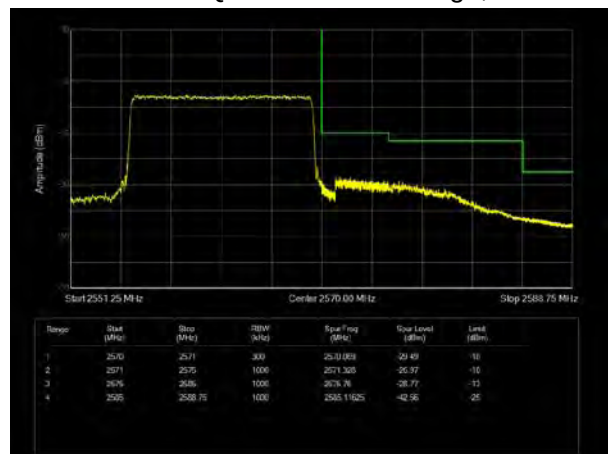
LTE Band 7 64QAM 15MHz CH-High, 1 RB



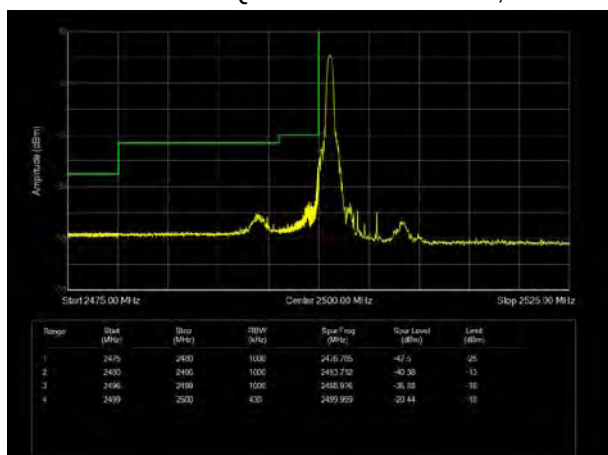
LTE Band 7 64QAM 15MHz CH-Low, 100%RB



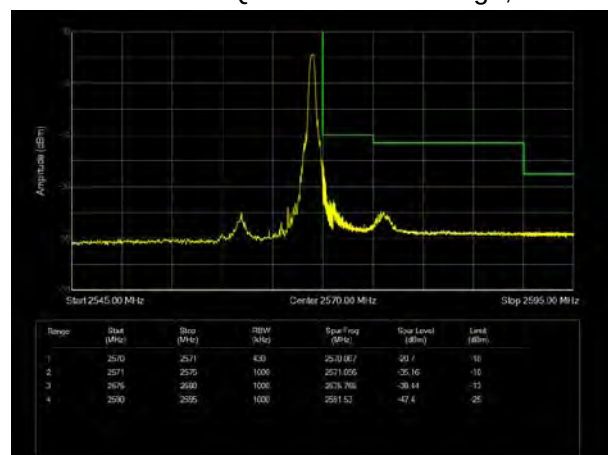
LTE Band 7 64QAM 15MHz CH-High, 100%RB



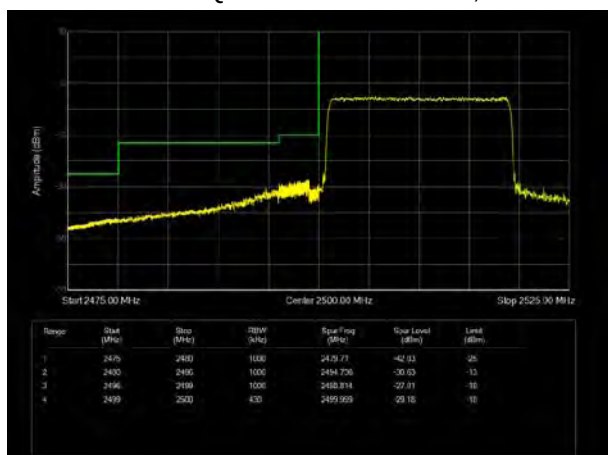
LTE Band 7 64QAM 20MHz CH-Low, 1 RB



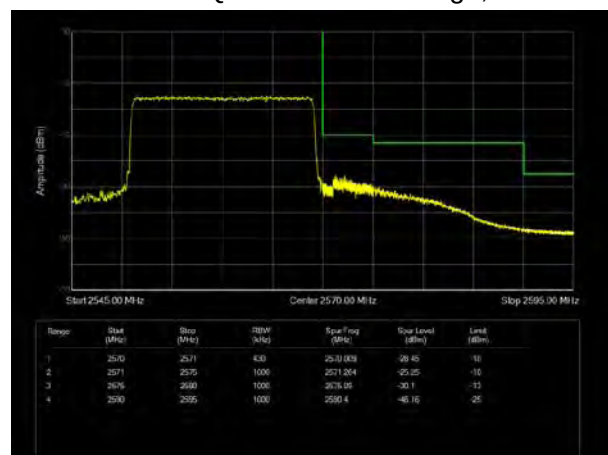
LTE Band 7 64QAM 20MHz CH-High, 1 RB



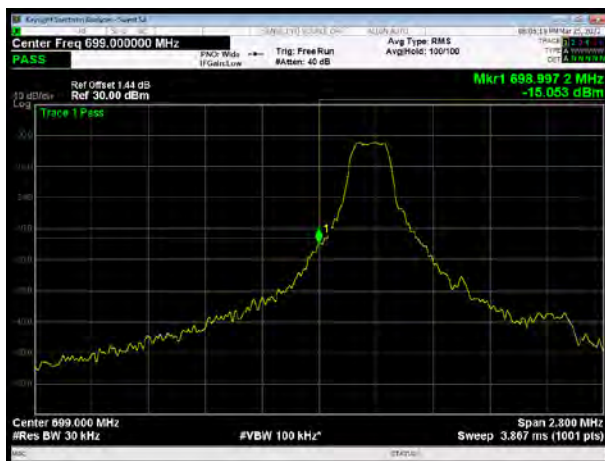
LTE Band 7 64QAM 20MHz CH-Low, 100%RB



LTE Band 7 64QAM 20MHz CH-High, 100%RB



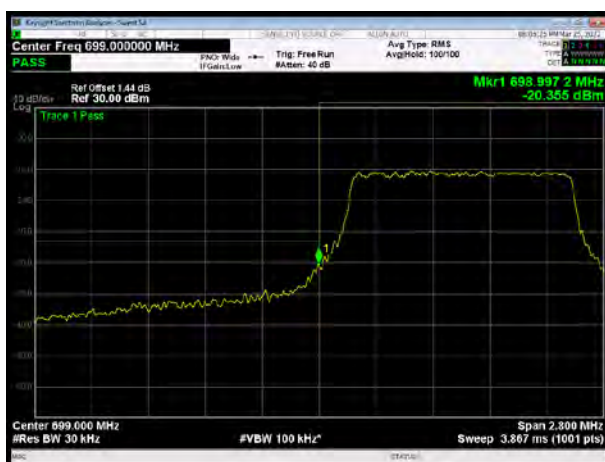
LTE Band 12 QPSK 1.4MHz CH-Low, 1 RB



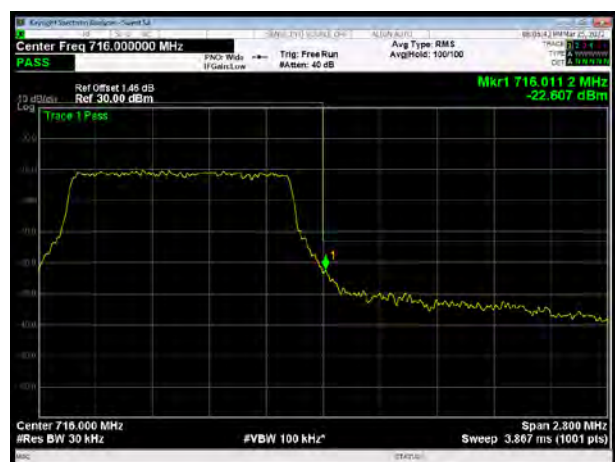
LTE Band 12 QPSK 1.4MHz CH-High, 1 RB



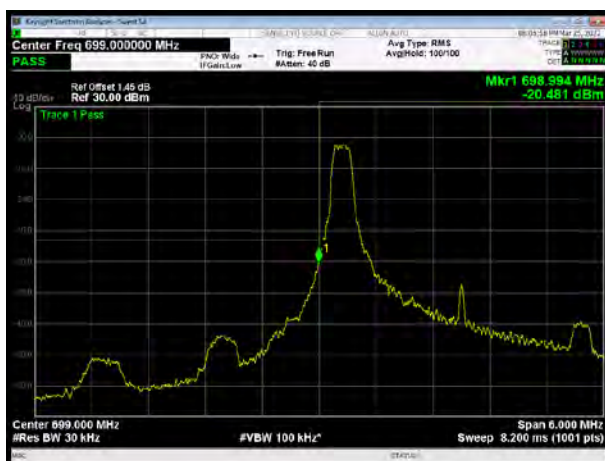
LTE Band 12 QPSK 1.4MHz CH-Low, 100%RB



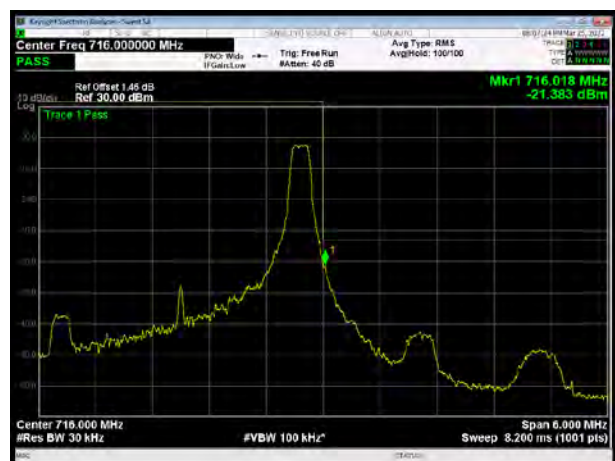
LTE Band 12 QPSK 1.4MHz CH-High, 100%RB



LTE Band 12 QPSK 3MHz CH-Low, 1 RB



LTE Band 12 QPSK 3MHz CH-High, 1 RB





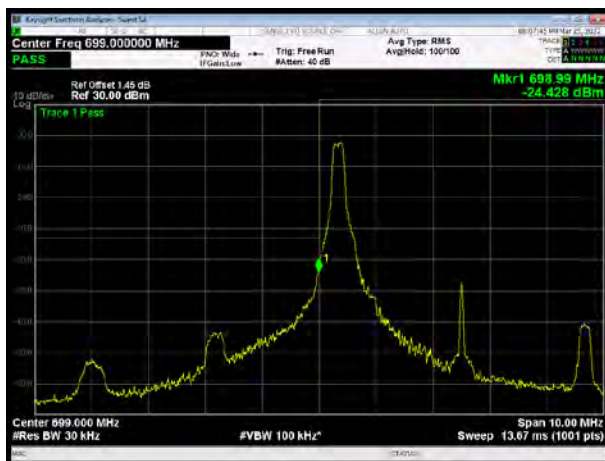
LTE Band 12 QPSK 3MHz CH-Low, 100%RB



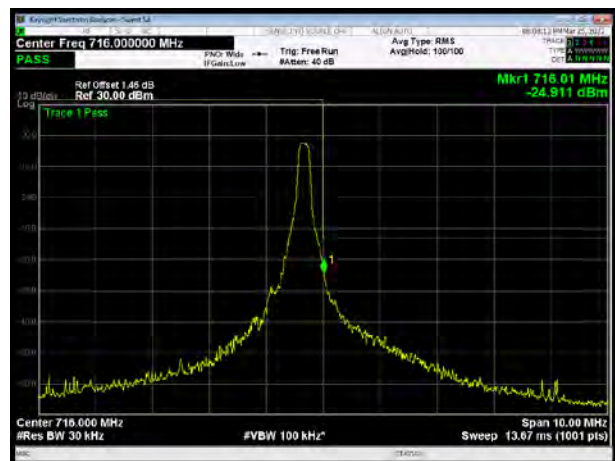
LTE Band 12 QPSK 3MHz CH-High, 100%RB



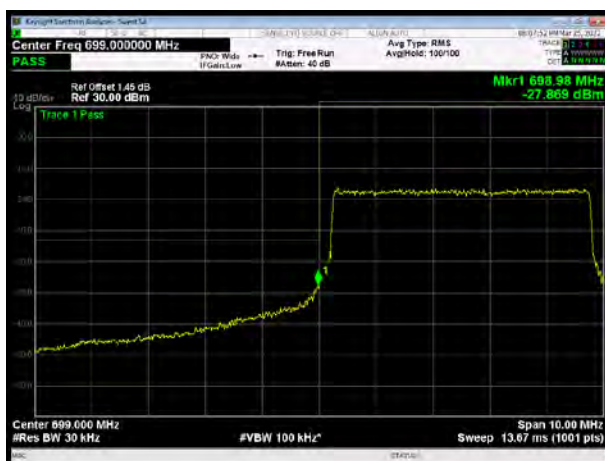
LTE Band 12 QPSK 5MHz CH-Low, 1 RB



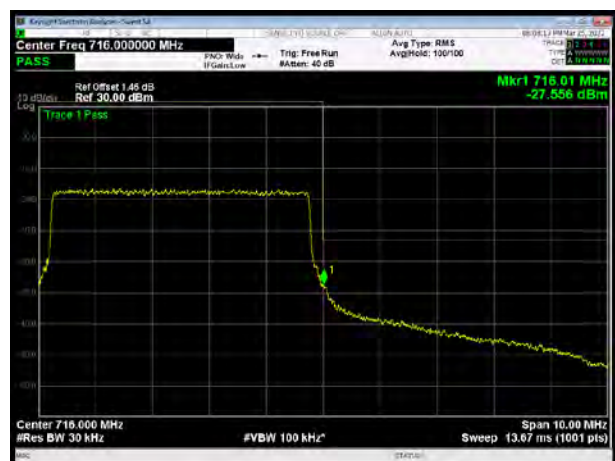
LTE Band 12 QPSK 5MHz CH-High, 1 RB



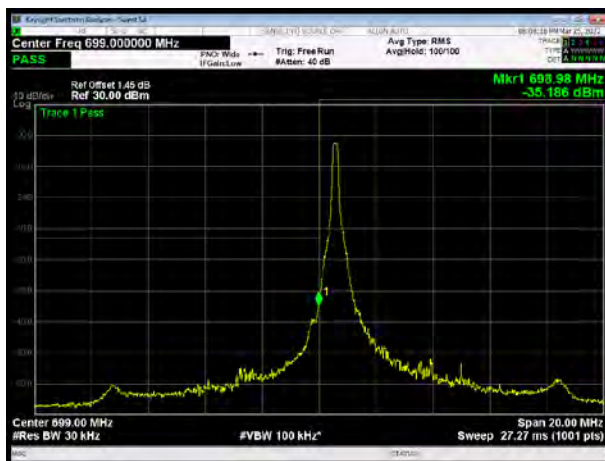
LTE Band 12 QPSK 5MHz CH-Low, 100%RB



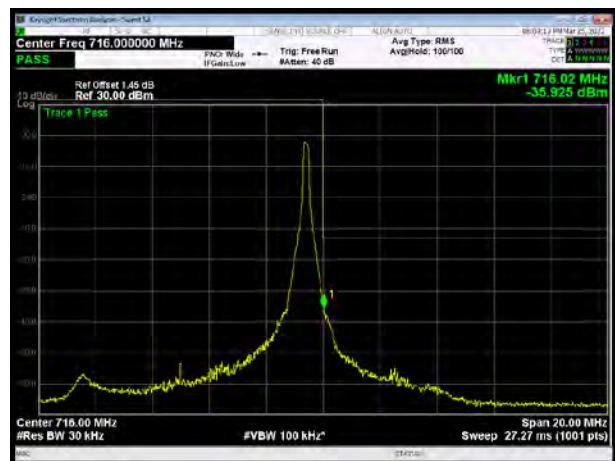
LTE Band 12 QPSK 5MHz CH-High, 100%RB



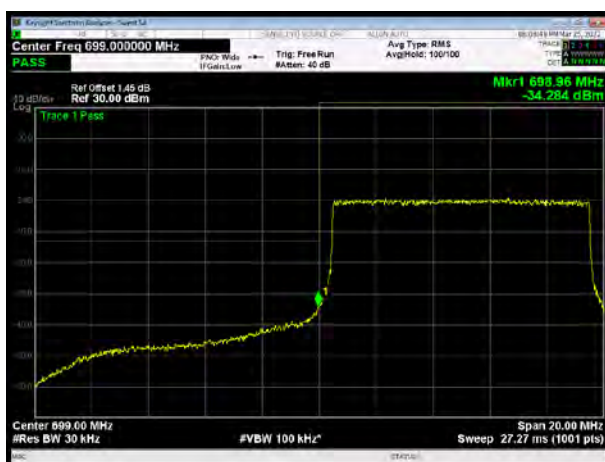
LTE Band 12 QPSK 10MHz CH-Low, 1 RB



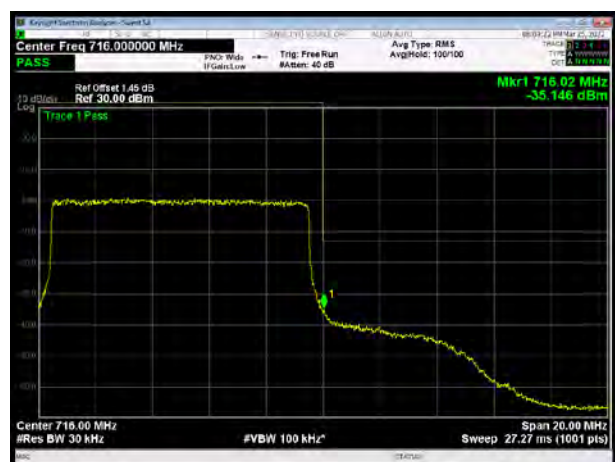
LTE Band 12 QPSK 10MHz CH-High, 1 RB



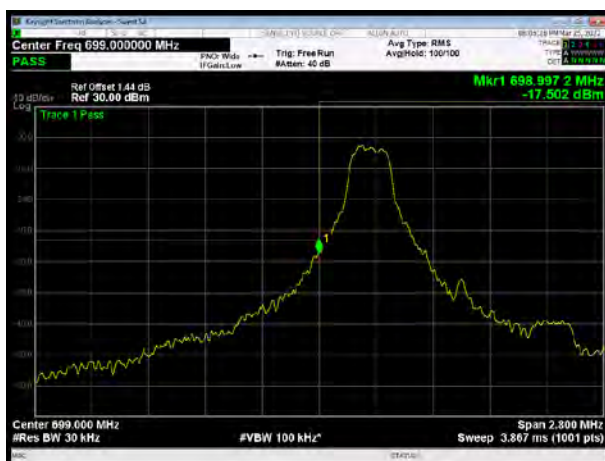
LTE Band 12 QPSK 10MHz CH-Low, 100%RB



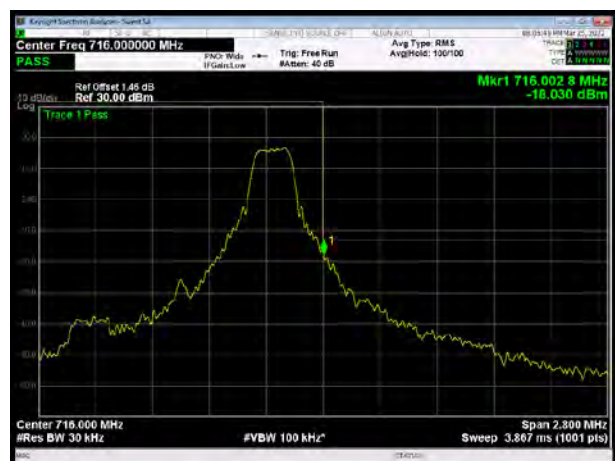
LTE Band 12 QPSK 10MHz CH-High, 100%RB



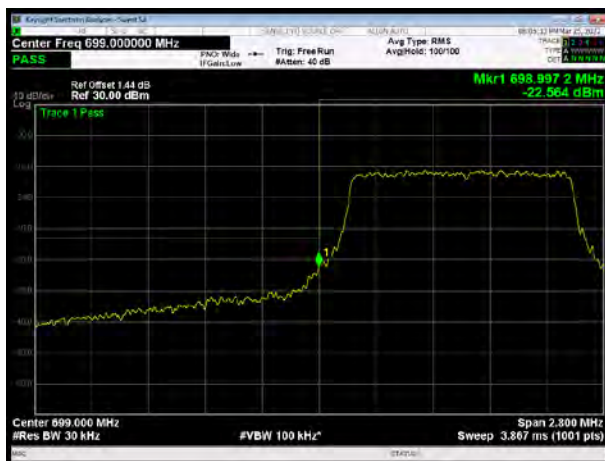
LTE Band 12 16QAM 1.4MHz CH-Low, 1 RB



LTE Band 12 16QAM 1.4MHz CH-High, 1 RB



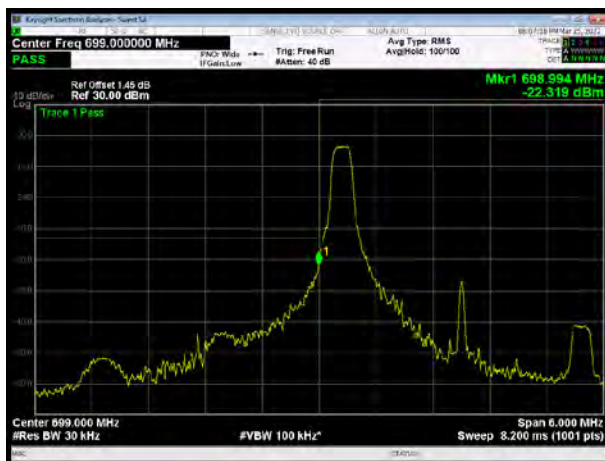
LTE Band 12 16QAM 1.4MHz CH-Low, 100%RB



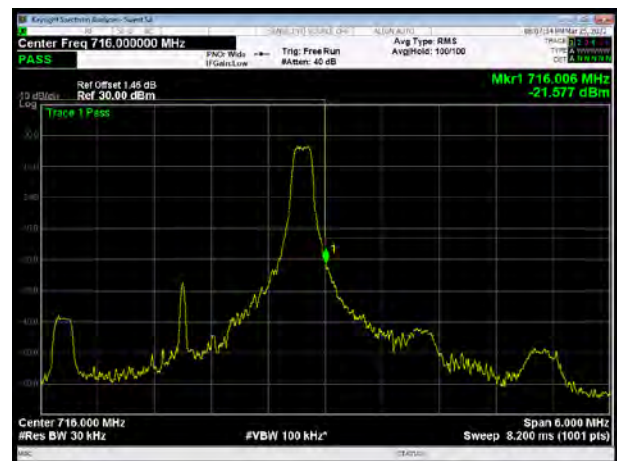
LTE Band 12 16QAM 1.4MHz CH-High, 100%RB



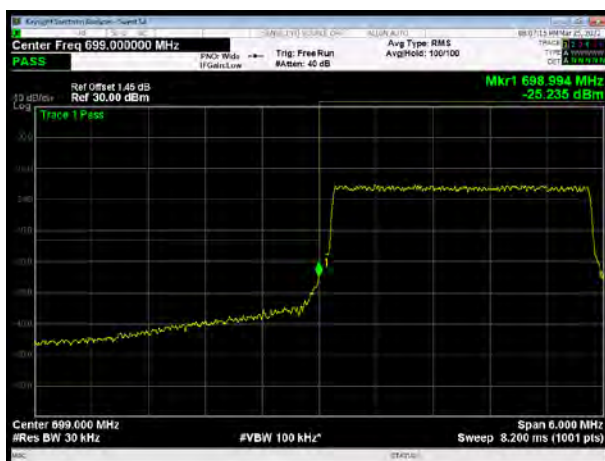
LTE Band 12 16QAM 3MHz CH-Low, 1 RB



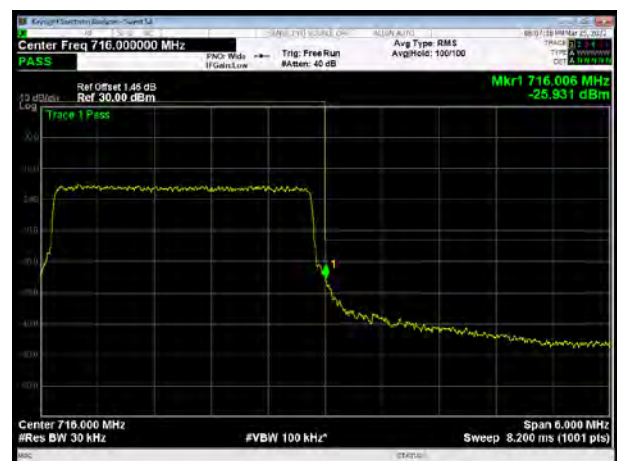
LTE Band 12 16QAM 3MHz CH-High, 1 RB



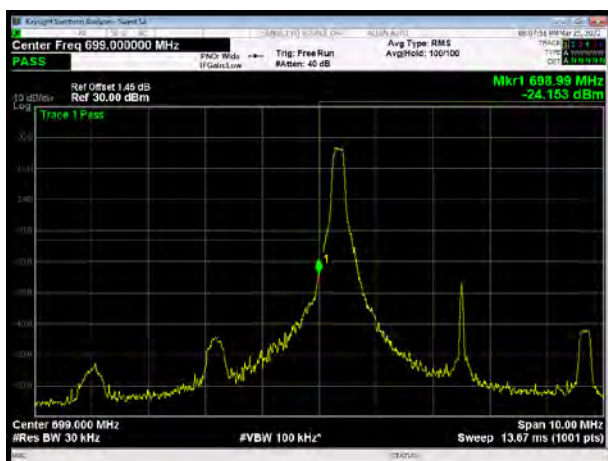
LTE Band 12 16QAM 3MHz CH-Low, 100%RB



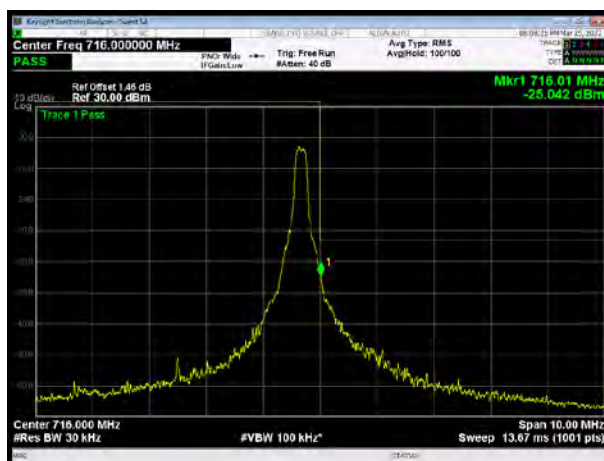
LTE Band 12 16QAM 3MHz CH-High, 100%RB



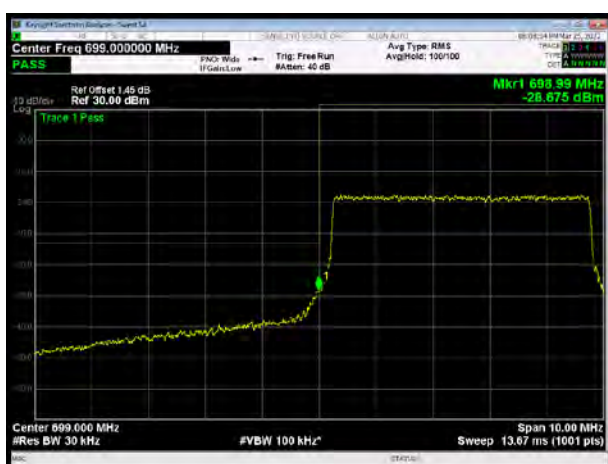
LTE Band 12 16QAM 5MHz CH-Low, 1 RB



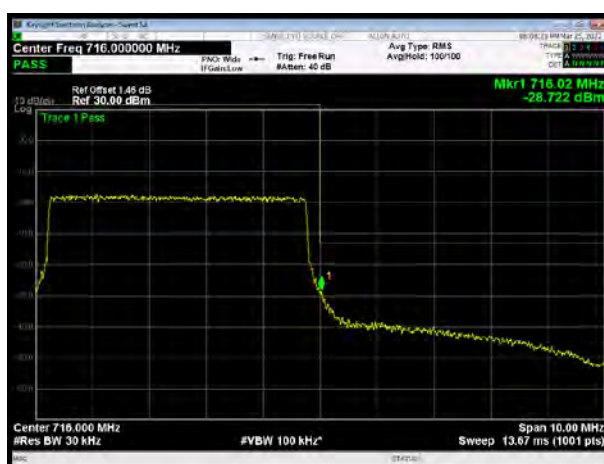
LTE Band 12 16QAM 5MHz CH-High, 1 RB



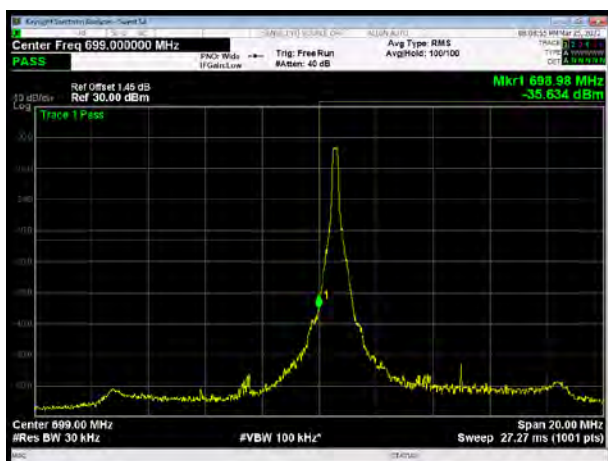
LTE Band 12 16QAM 5MHz CH-Low, 100%RB



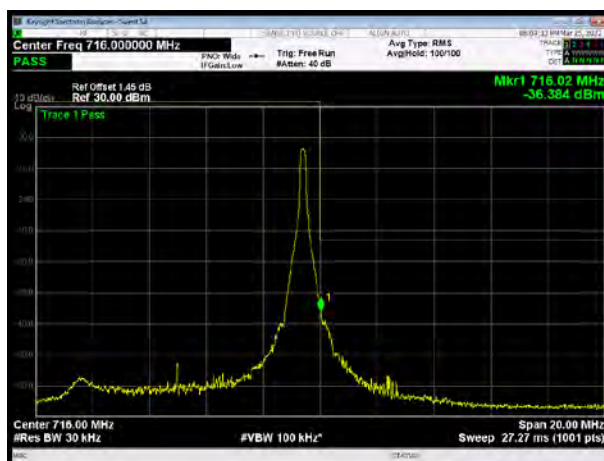
LTE Band 12 16QAM 5MHz CH-High, 100%RB



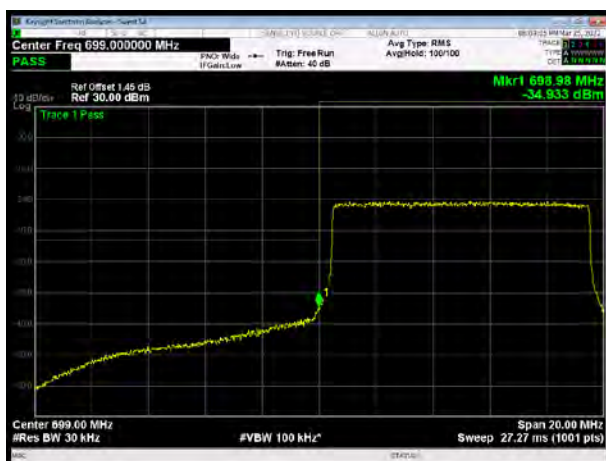
LTE Band 12 16QAM 10MHz CH-Low, 1 RB



LTE Band 12 16QAM 10MHz CH-High, 1 RB



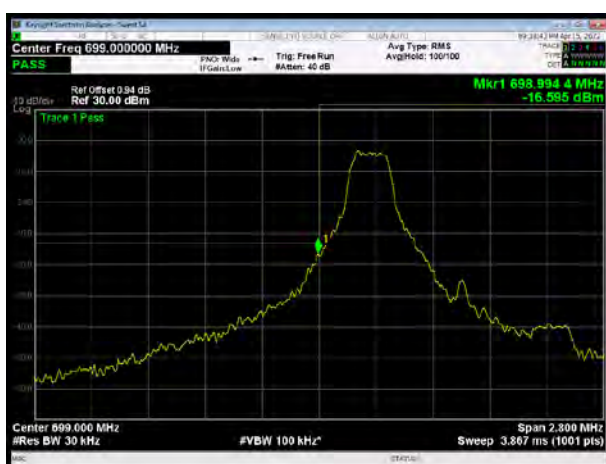
LTE Band 12 16QAM 10MHz CH-Low, 100%RB



LTE Band 12 16QAM 10MHz CH-High, 100%RB



LTE Band 12 64QAM 1.4MHz CH-Low, 1 RB



LTE Band 12 64QAM 1.4MHz CH-High, 1 RB



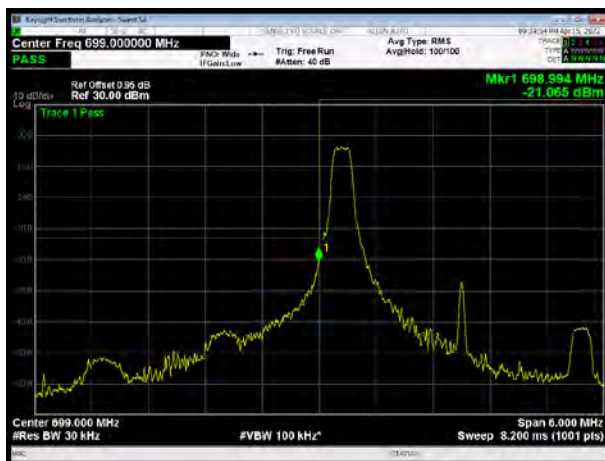
LTE Band 12 64QAM 1.4MHz CH-Low, 100%RB



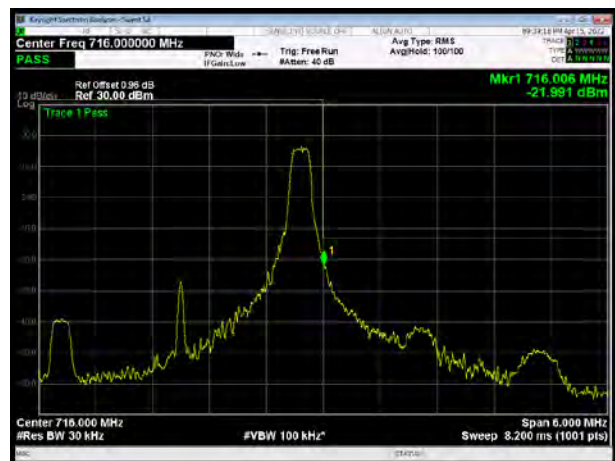
LTE Band 12 64QAM 1.4MHz CH-High, 100%RB



LTE Band 12 64QAM 3MHz CH-Low, 1 RB



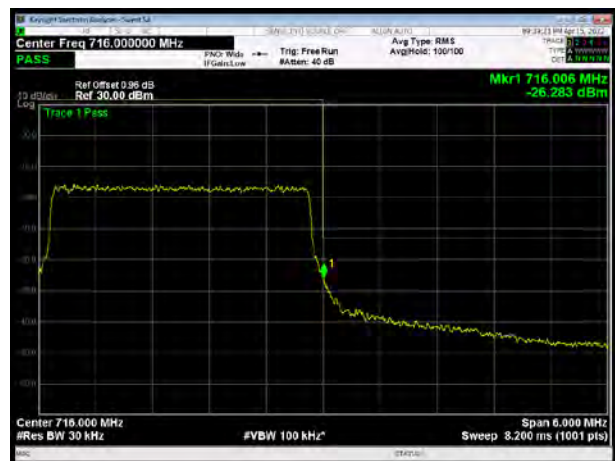
LTE Band 12 64QAM 3MHz CH-High, 1 RB



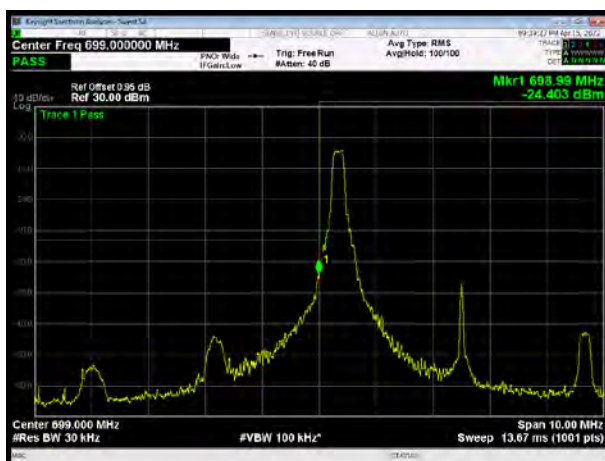
LTE Band 12 64QAM 3MHz CH-Low, 100%RB



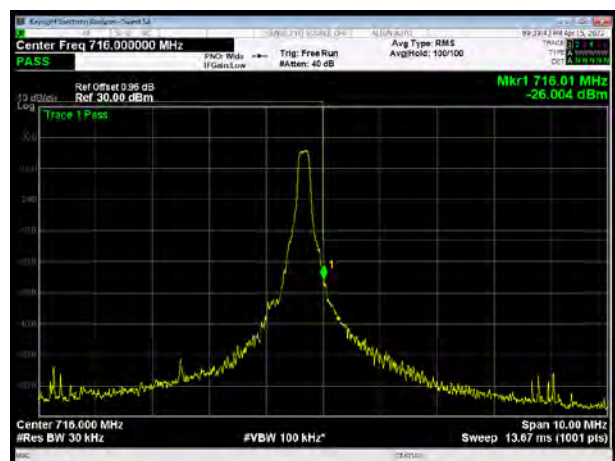
LTE Band 12 64QAM 3MHz CH-High, 100%RB



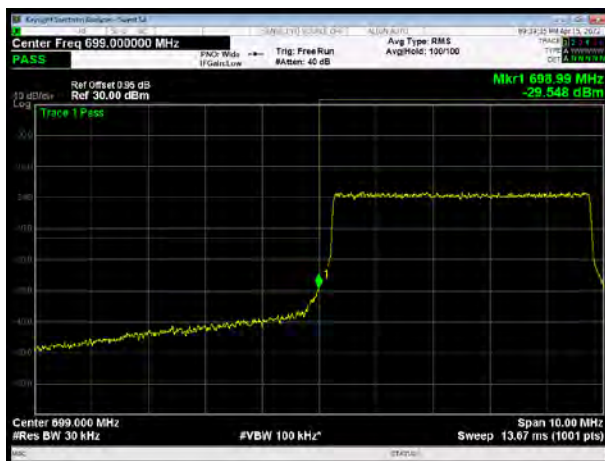
LTE Band 12 64QAM 5MHz CH-Low, 1 RB



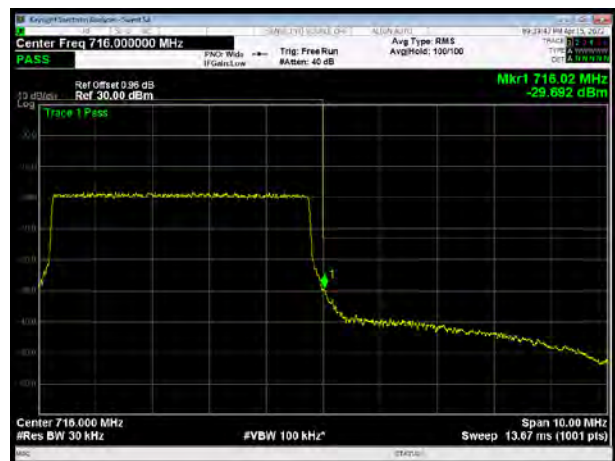
LTE Band 12 64QAM 5MHz CH-High, 1 RB



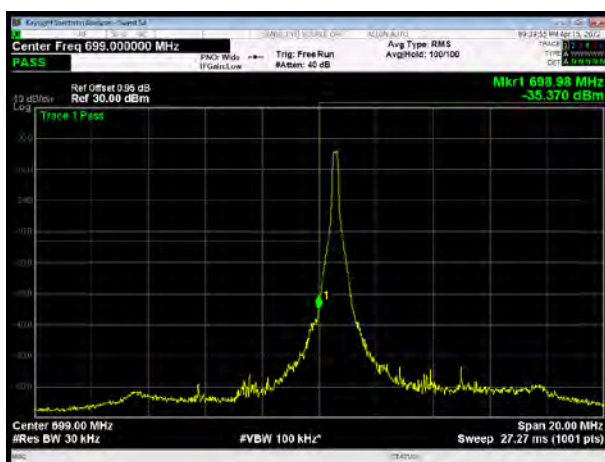
LTE Band 12 64QAM 5MHz CH-Low, 100%RB



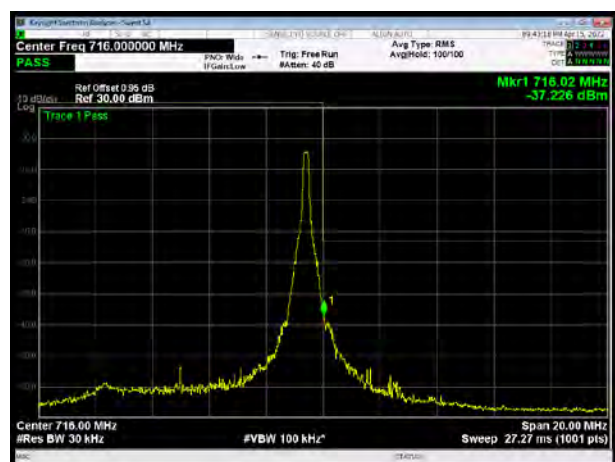
LTE Band 12 64QAM 5MHz CH-High, 100%RB



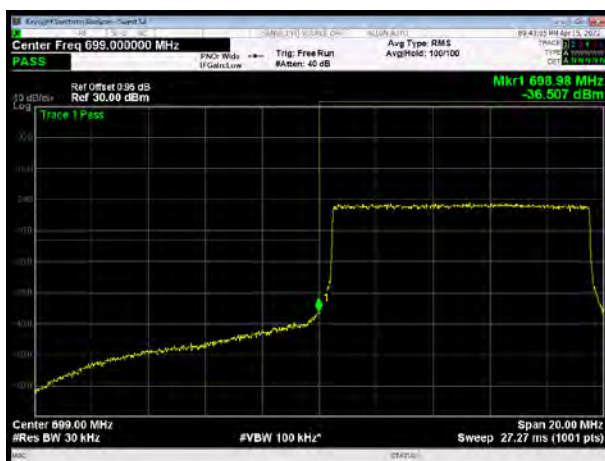
LTE Band 12 64QAM 10MHz CH-Low, 1 RB



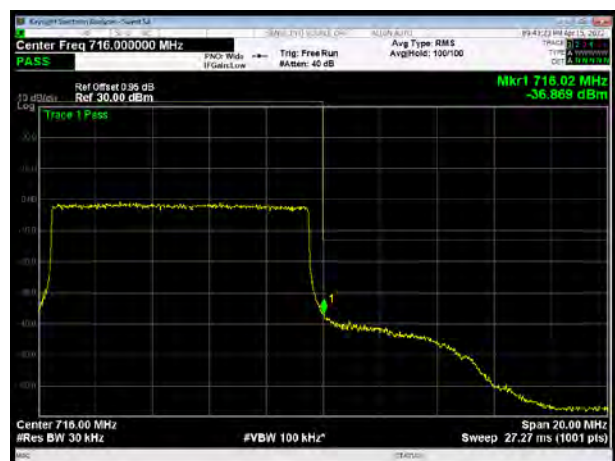
LTE Band 12 64QAM 10MHz CH-High, 1 RB



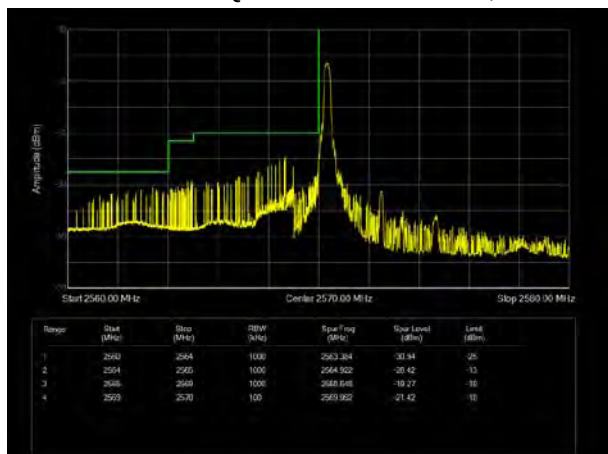
LTE Band 12 64QAM 10MHz CH-Low, 100%RB



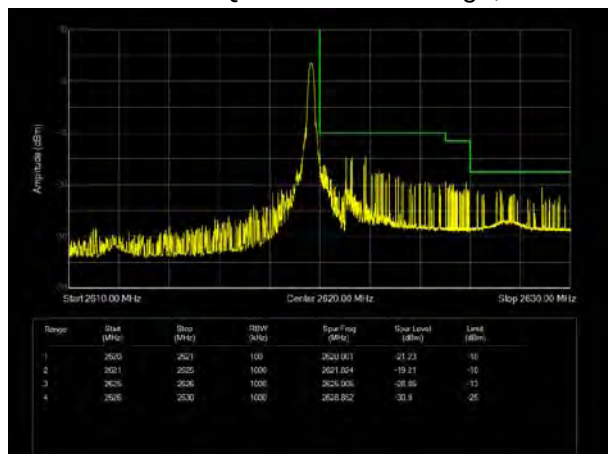
LTE Band 12 64QAM 10MHz CH-High, 100%RB



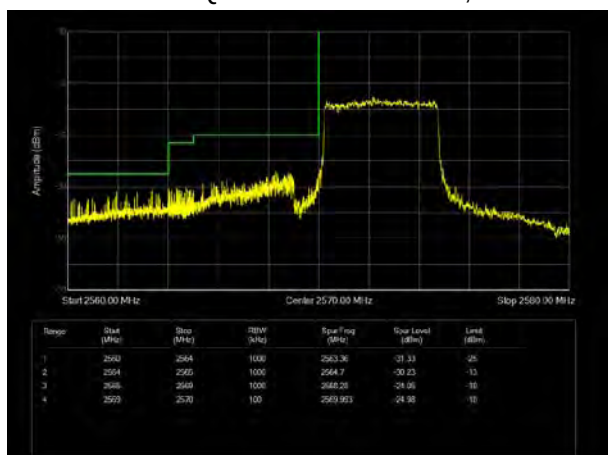
LTE Band 38 QPSK 5MHz CH-Low, 1 RB



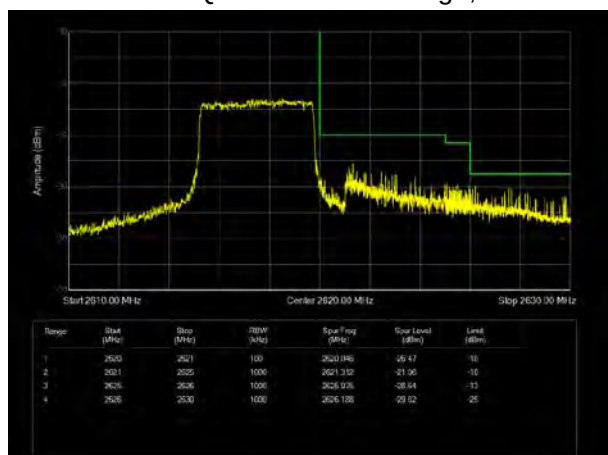
LTE Band 38 QPSK 5MHz CH-High, 1 RB



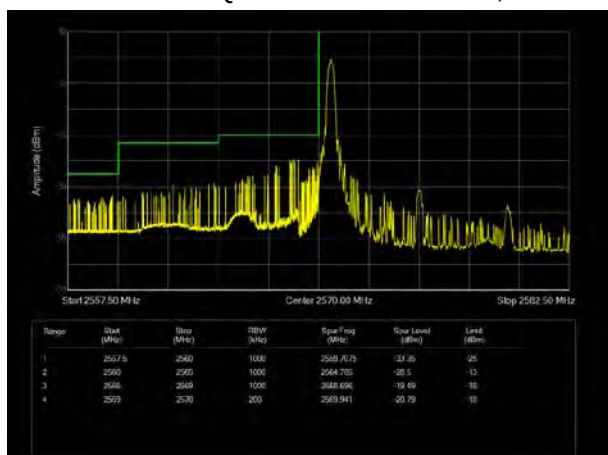
LTE Band 38 QPSK 5MHz CH-Low, 100%RB



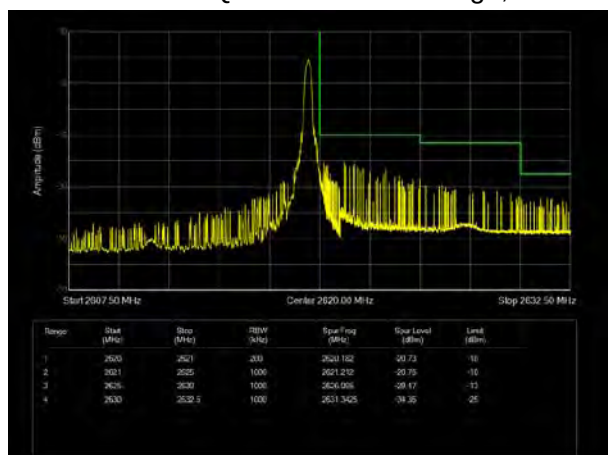
LTE Band 38 QPSK 5MHz CH-High, 100%RB



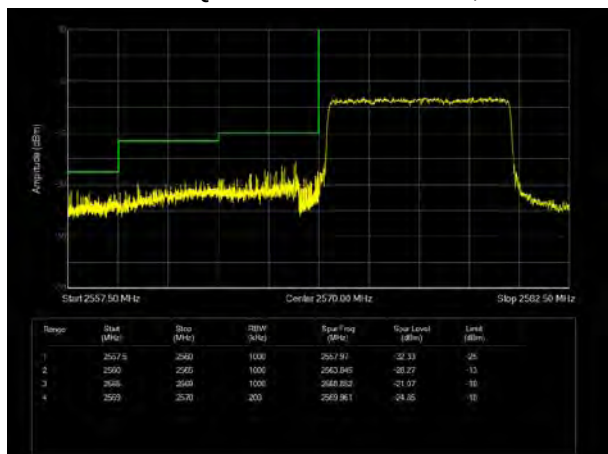
LTE Band 38 QPSK 10MHz CH-Low, 1 RB



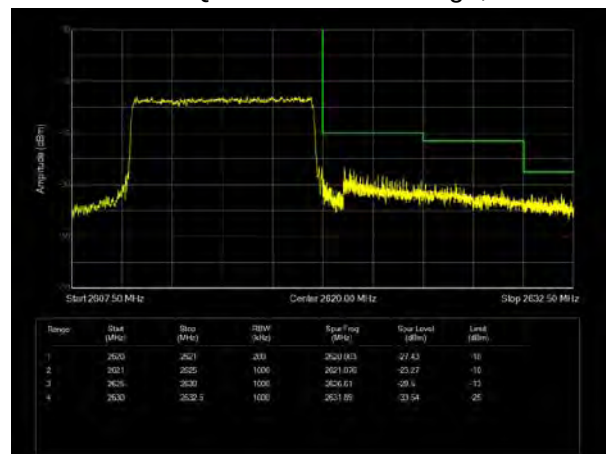
LTE Band 38 QPSK 10MHz CH-High, 1 RB



LTE Band 38 QPSK 10MHz CH-Low, 100%RB



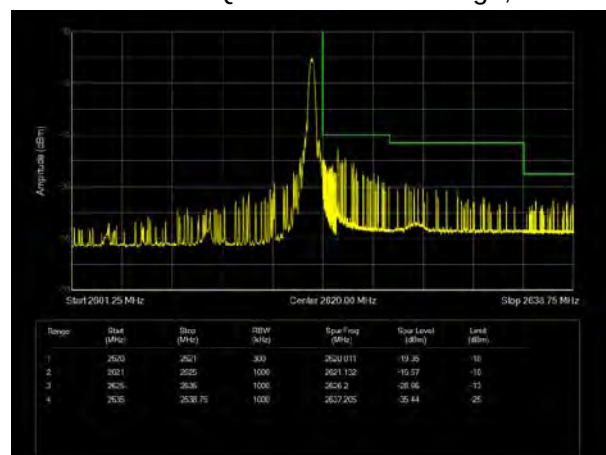
LTE Band 38 QPSK 10MHz CH-High, 100%RB



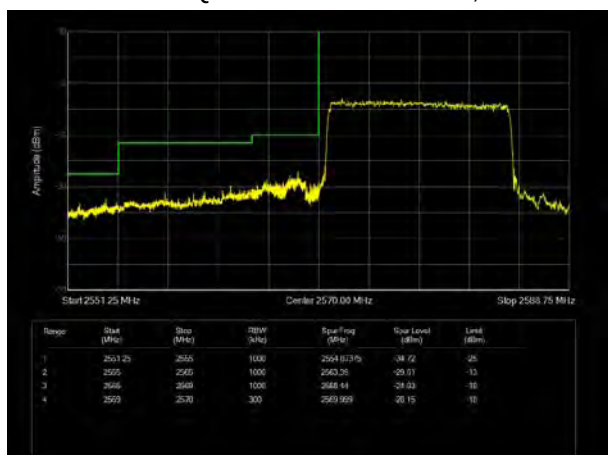
LTE Band 38 QPSK 15MHz CH-Low, 1 RB



LTE Band 38 QPSK 15MHz CH-High, 1 RB



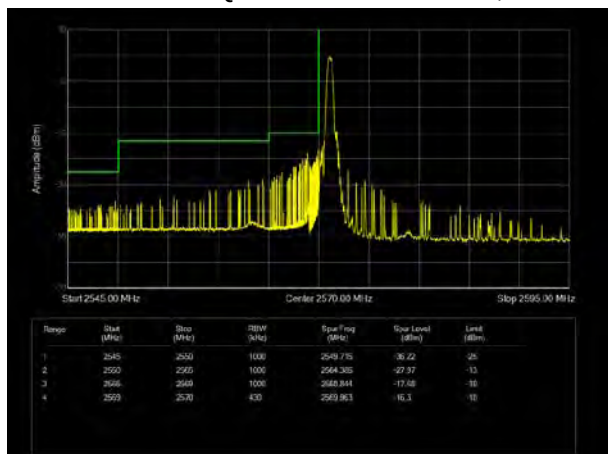
LTE Band 38 QPSK 15MHz CH-Low, 100%RB



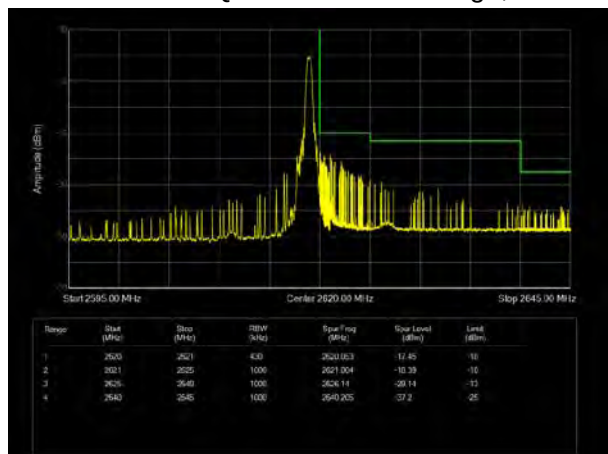
LTE Band 38 QPSK 15MHz CH-High, 100%RB



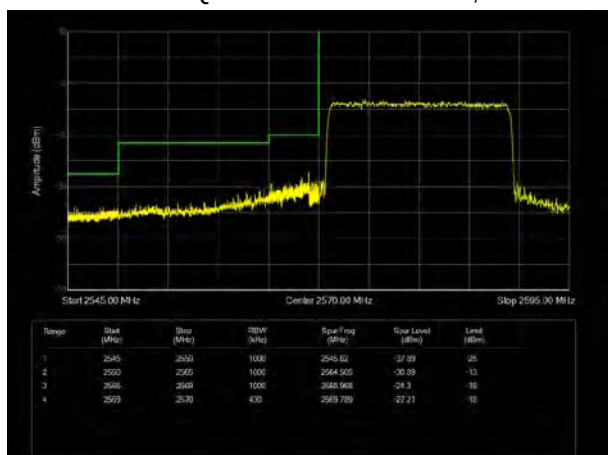
LTE Band 38 QPSK 20MHz CH-Low, 1 RB



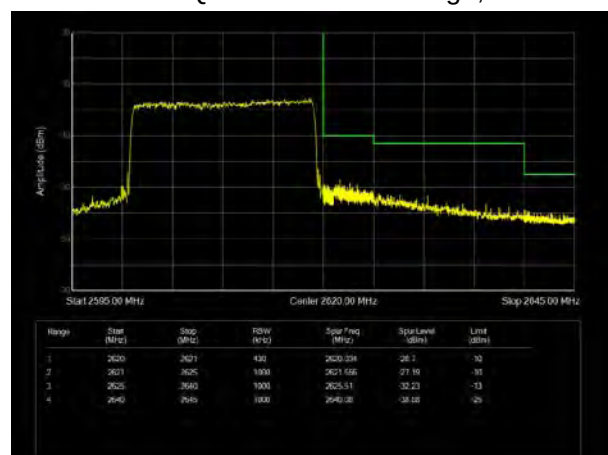
LTE Band 38 QPSK 20MHz CH-High, 1 RB



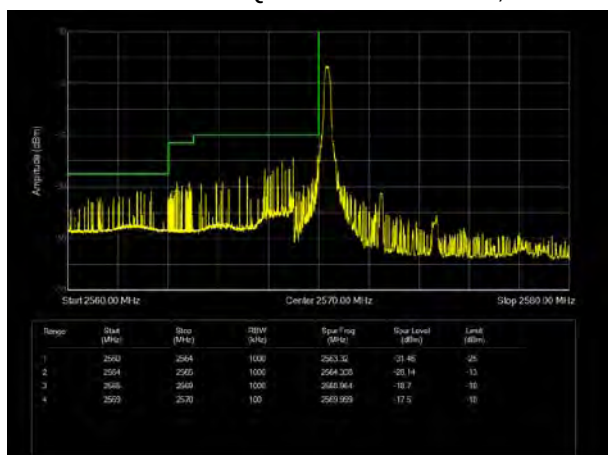
LTE Band 38 QPSK 20MHz CH-Low, 100%RB



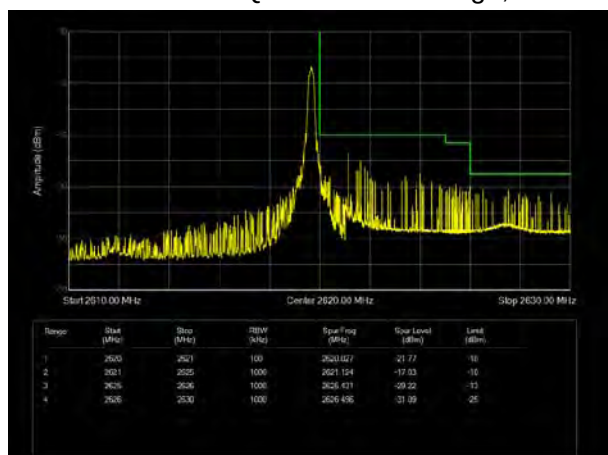
LTE Band 38 QPSK 20MHz CH-High, 100%RB



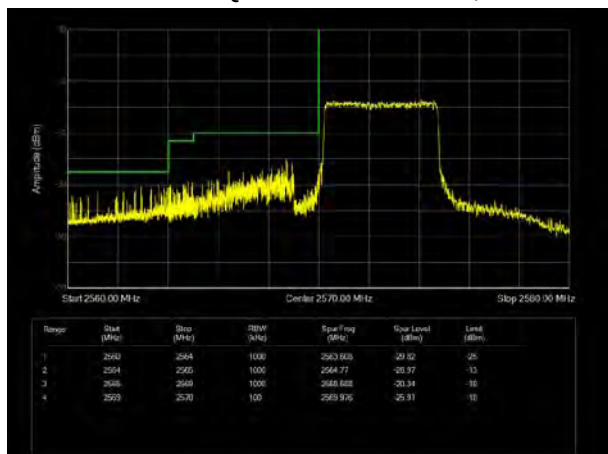
LTE Band 38 16QAM 5MHz CH-Low, 1 RB



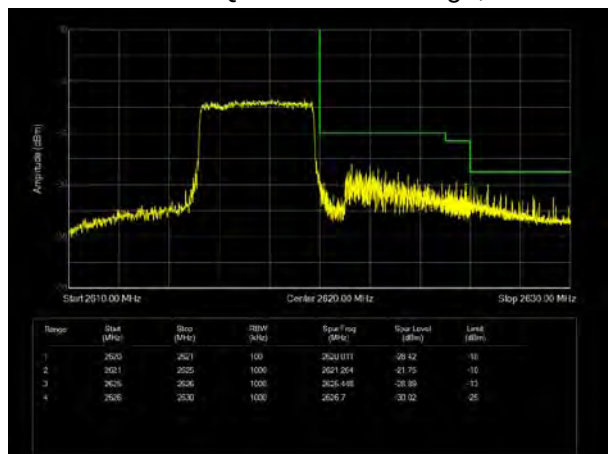
LTE Band 38 16QAM 5MHz CH-High, 1 RB



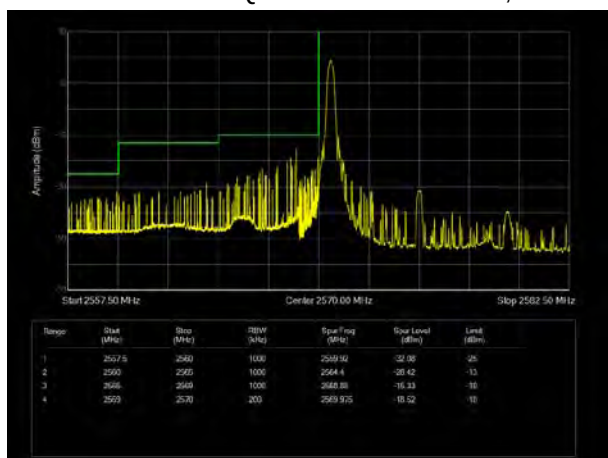
LTE Band 38 16QAM 5MHz CH-Low, 100%RB



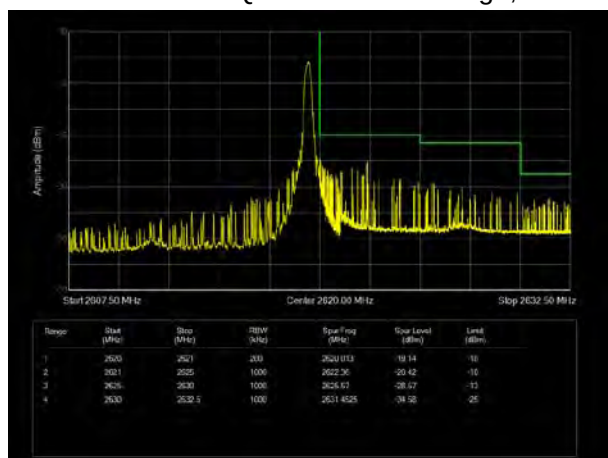
LTE Band 38 16QAM 5MHz CH-High, 100%RB



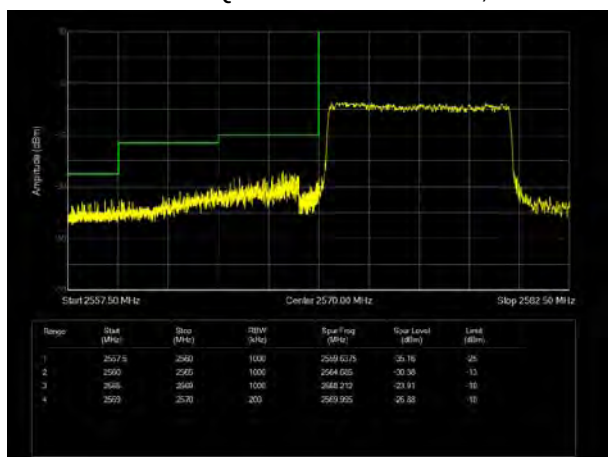
LTE Band 38 16QAM 10MHz CH-Low, 1 RB



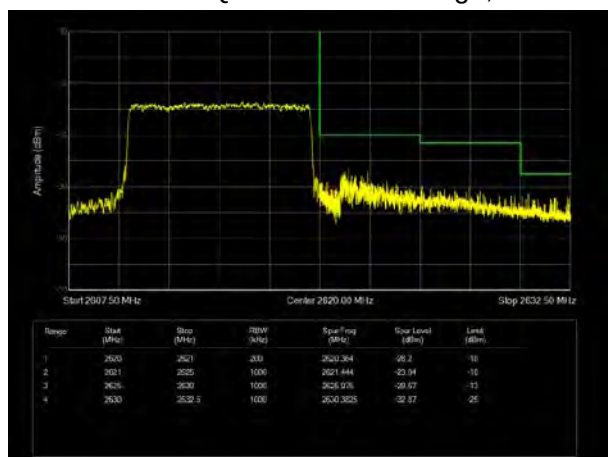
LTE Band 38 16QAM 10MHz CH-High, 1 RB



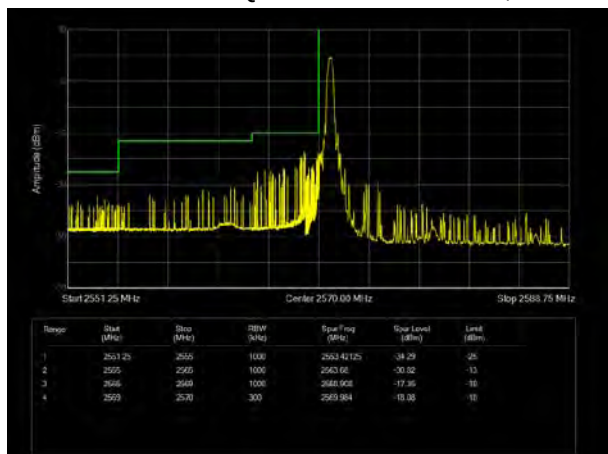
LTE Band 38 16QAM 10MHz CH-Low, 100%RB



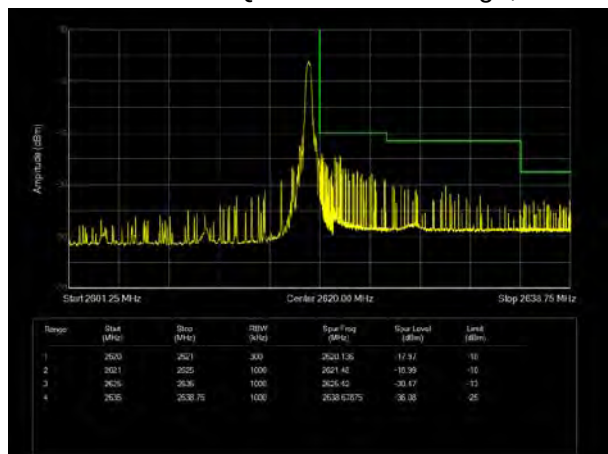
LTE Band 38 16QAM 10MHz CH-High, 100%RB



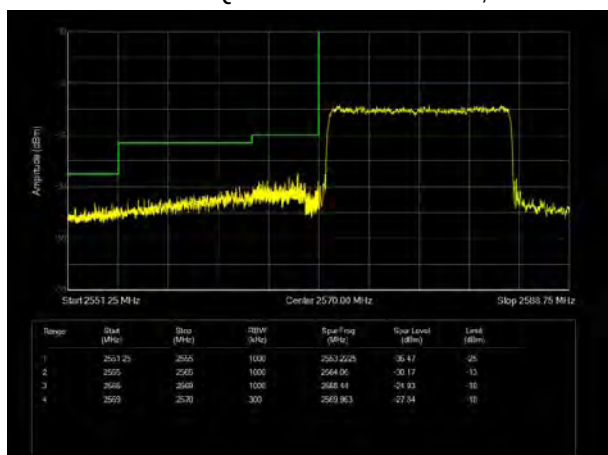
LTE Band 38 16QAM 15MHz CH-Low, 1 RB



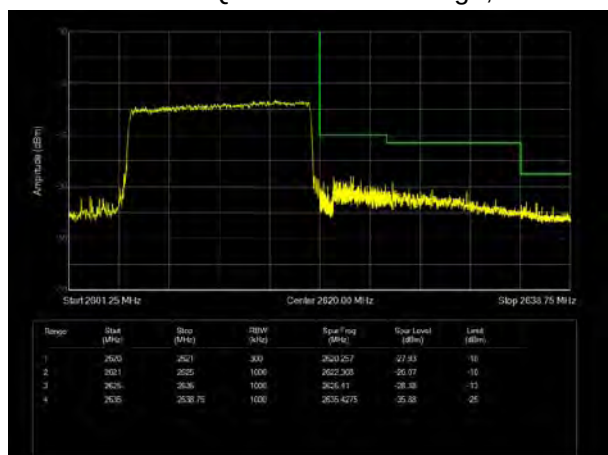
LTE Band 38 16QAM 15MHz CH-High, 1 RB



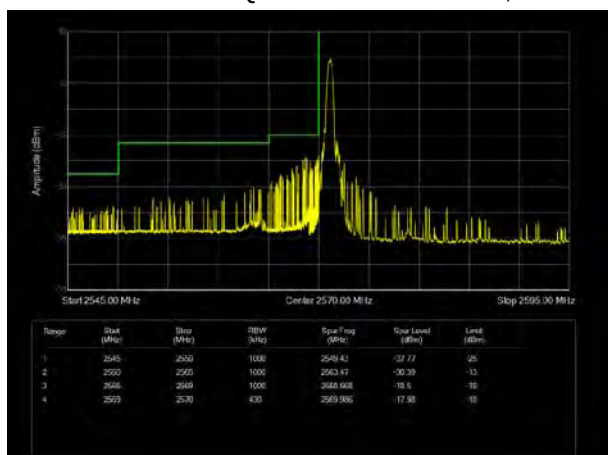
LTE Band 38 16QAM 15MHz CH-Low, 100%RB



LTE Band 38 16QAM 15MHz CH-High, 100%RB



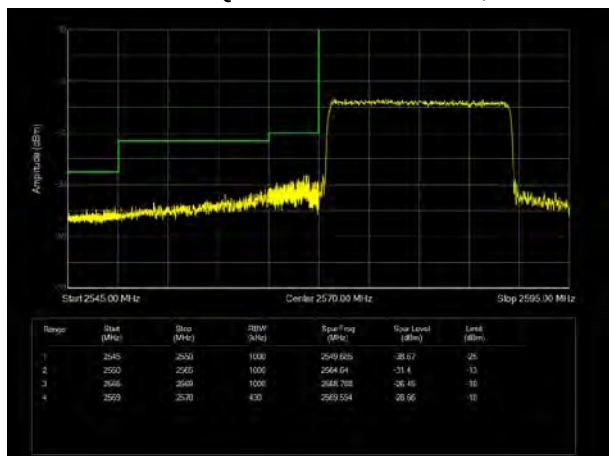
LTE Band 38 16QAM 20MHz CH-Low, 1 RB



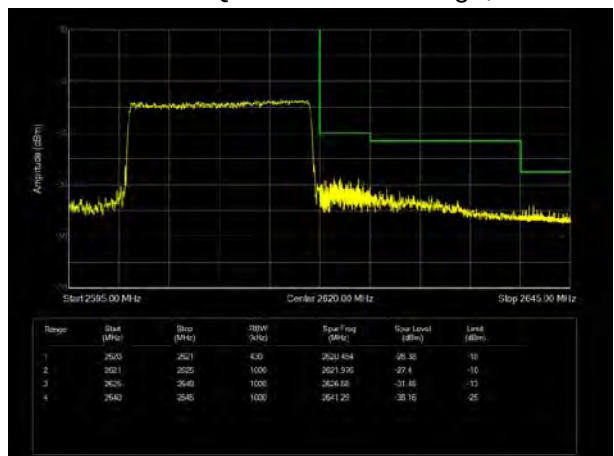
LTE Band 38 16QAM 20MHz CH-High, 1 RB



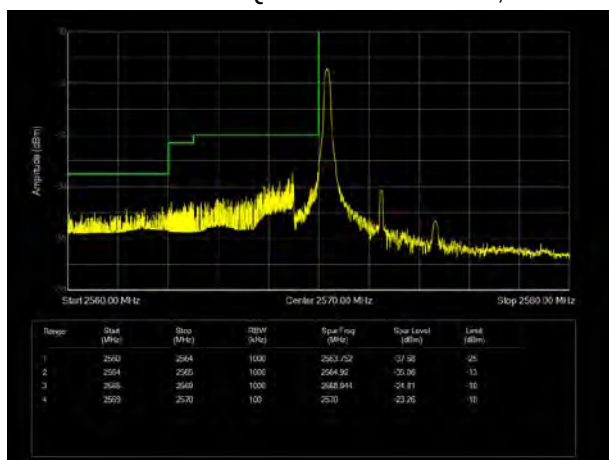
LTE Band 38 16QAM 20MHz CH-Low, 100%RB



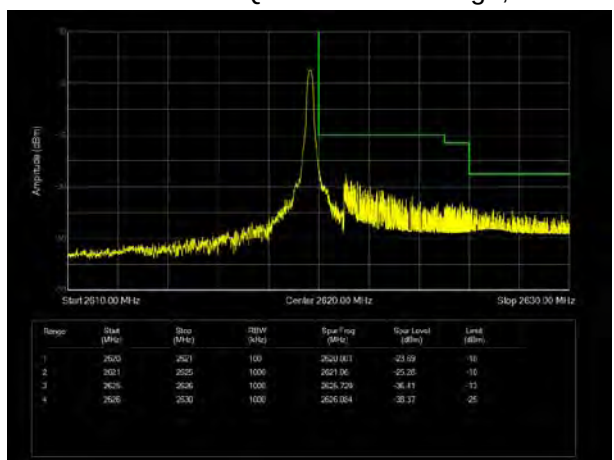
LTE Band 38 16QAM 20MHz CH-High, 100%RB



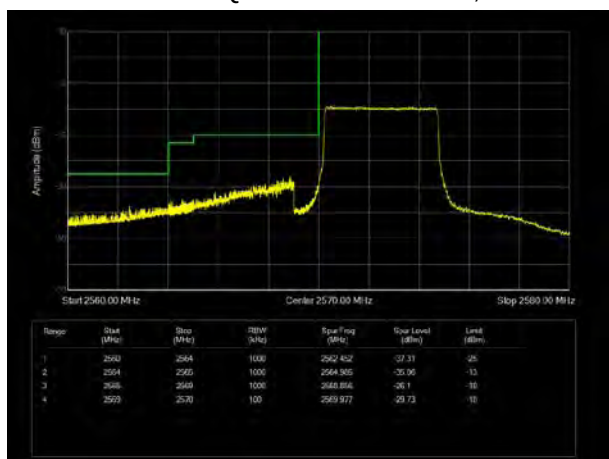
LTE Band 38 64QAM 5MHz CH-Low, 1 RB



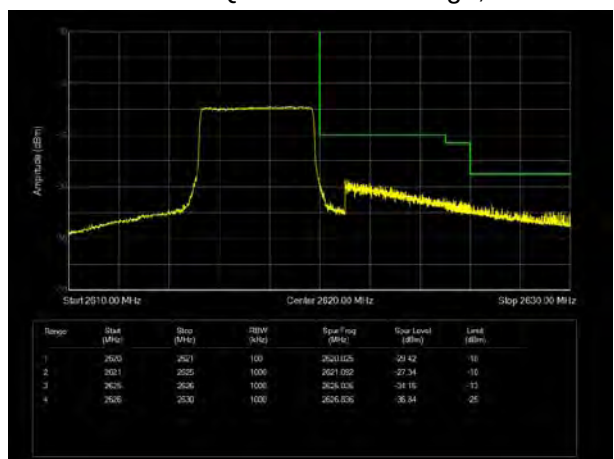
LTE Band 38 64QAM 5MHz CH-High, 1 RB



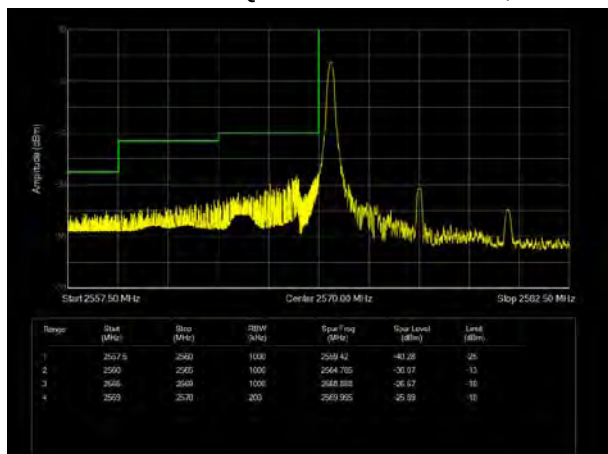
LTE Band 38 64QAM 5MHz CH-Low, 100%RB



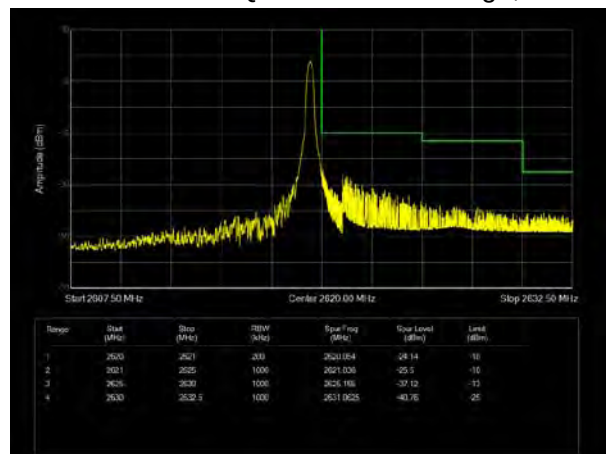
LTE Band 38 64QAM 5MHz CH-High, 100%RB



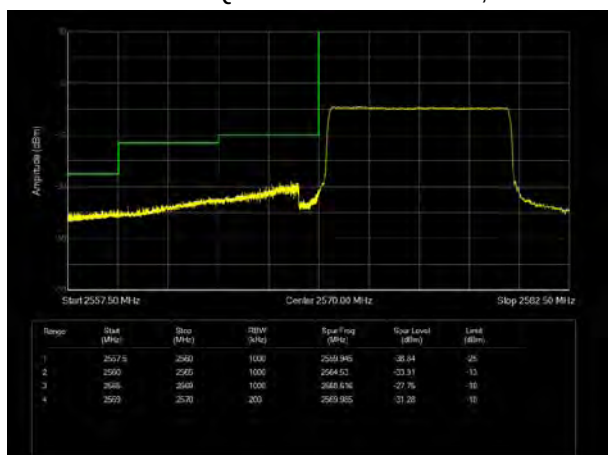
LTE Band 38 64QAM 10MHz CH-Low, 1 RB



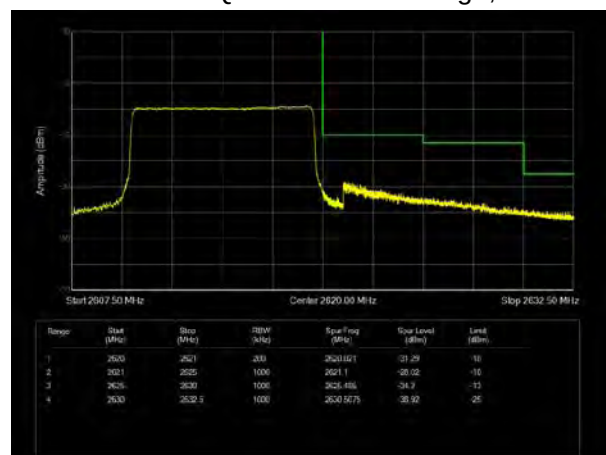
LTE Band 38 64QAM 10MHz CH-High, 1 RB



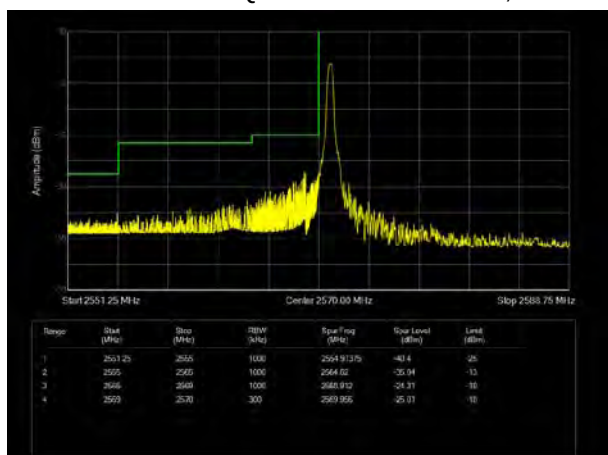
LTE Band 38 64QAM 10MHz CH-Low, 100%RB



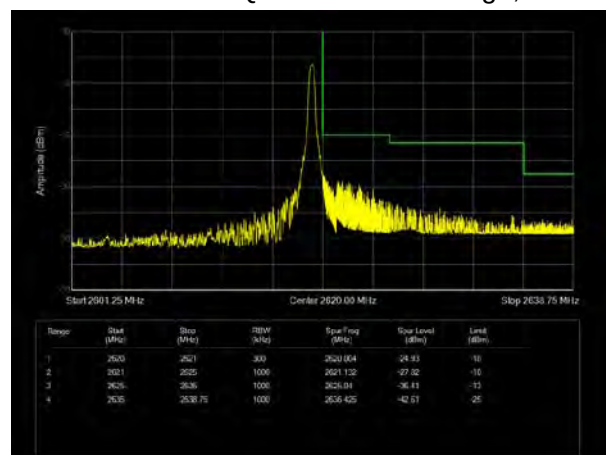
LTE Band 38 64QAM 10MHz CH-High, 100%RB



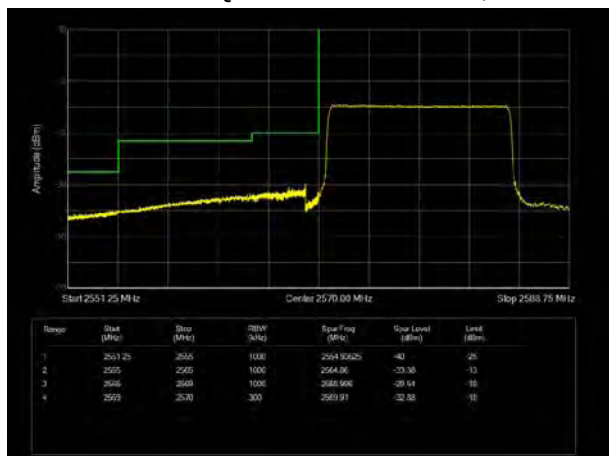
LTE Band 38 64QAM 15MHz CH-Low, 1 RB



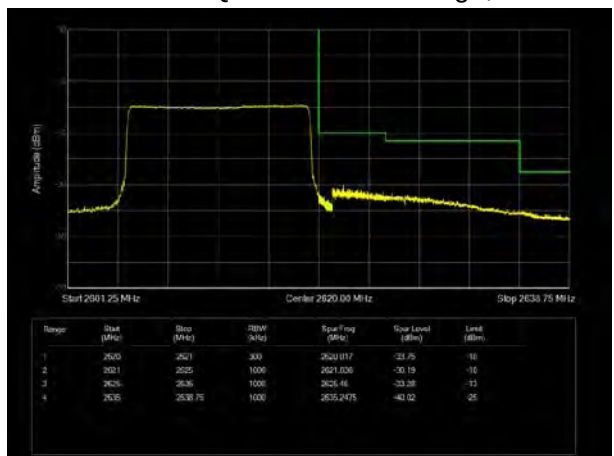
LTE Band 38 64QAM 15MHz CH-High, 1 RB



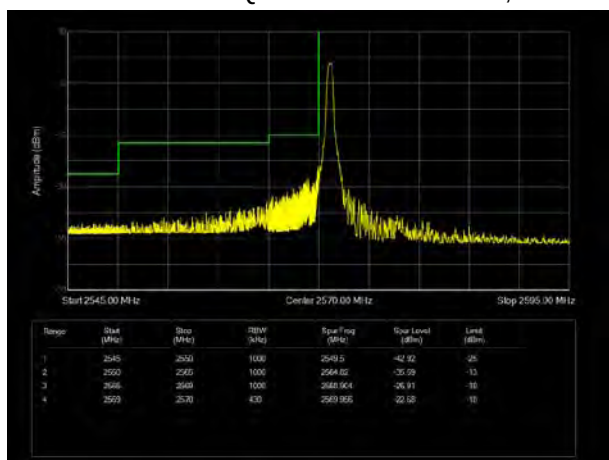
LTE Band 38 64QAM 15MHz CH-Low, 100%RB



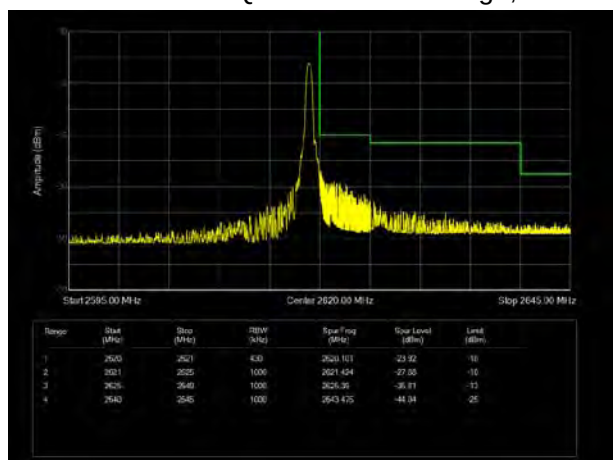
LTE Band 38 64QAM 15MHz CH-High, 100%RB



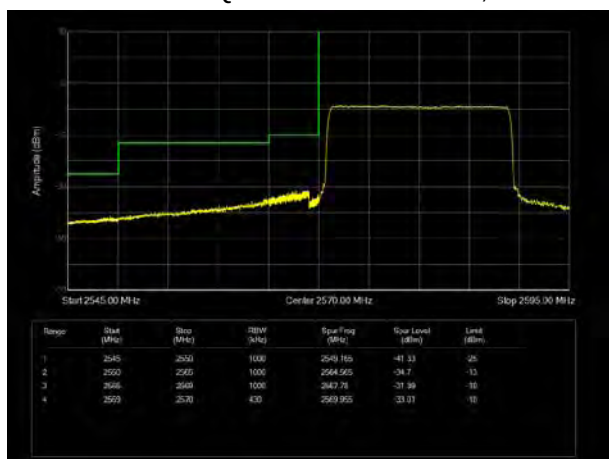
LTE Band 38 64QAM 20MHz CH-Low, 1 RB



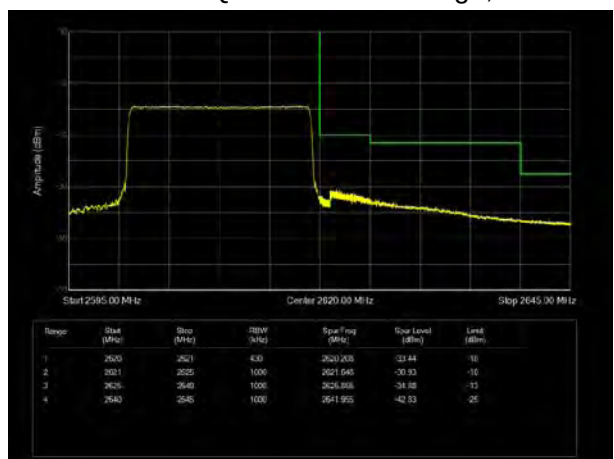
LTE Band 38 64QAM 20MHz CH-High, 1 RB



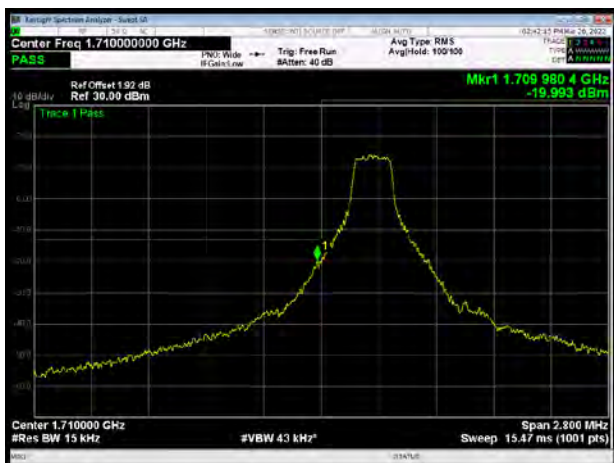
LTE Band 38 64QAM 20MHz CH-Low, 100%RB



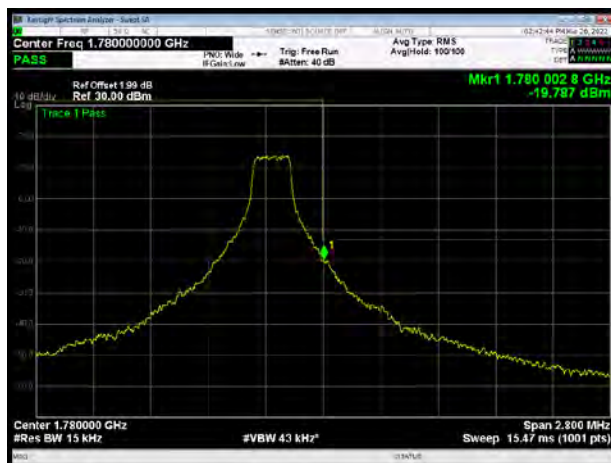
LTE Band 38 64QAM 20MHz CH-High, 100%RB



LTE Band 66 QPSK 1.4MHz CH-Low, 1 RB



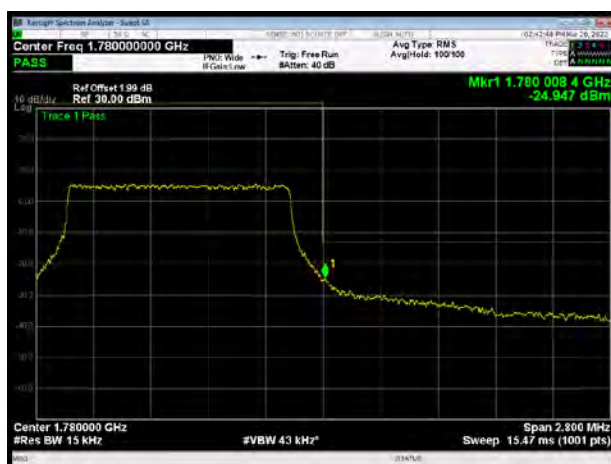
LTE Band 66 QPSK 1.4MHz CH-High, 1 RB



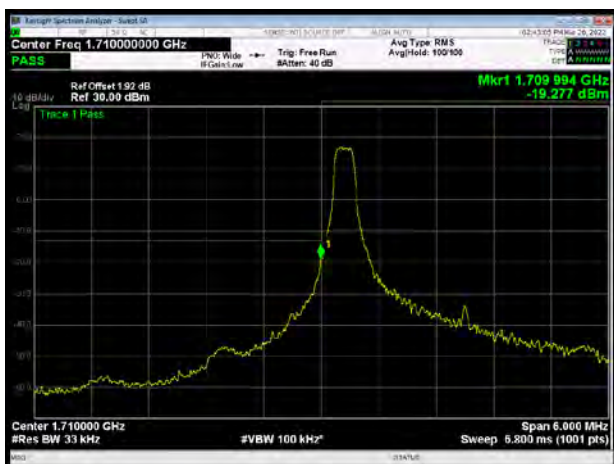
LTE Band 66 QPSK 1.4MHz CH-Low, 100%RB



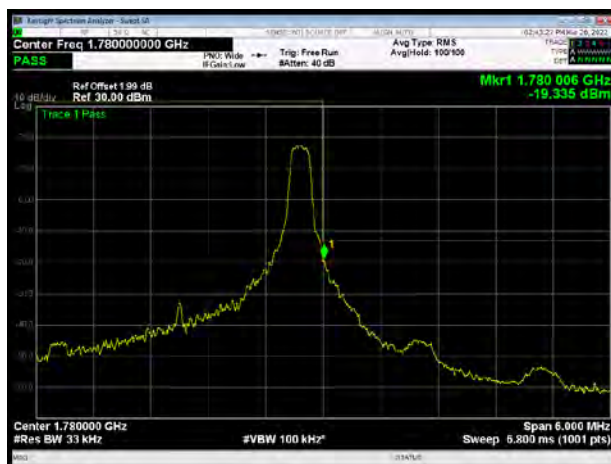
LTE Band 66 QPSK 1.4MHz CH-High, 100%RB



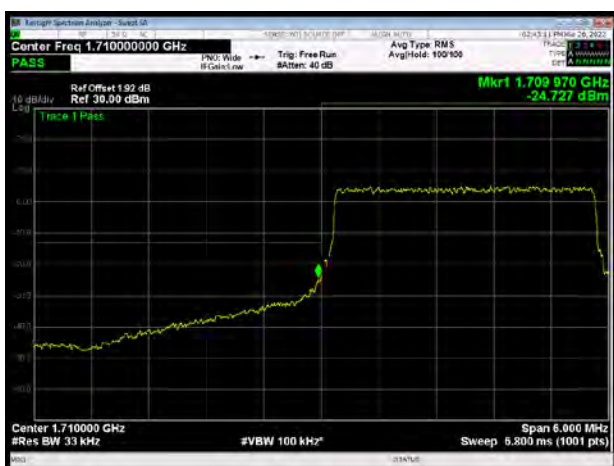
LTE Band 66 QPSK 3MHz CH-Low, 1 RB



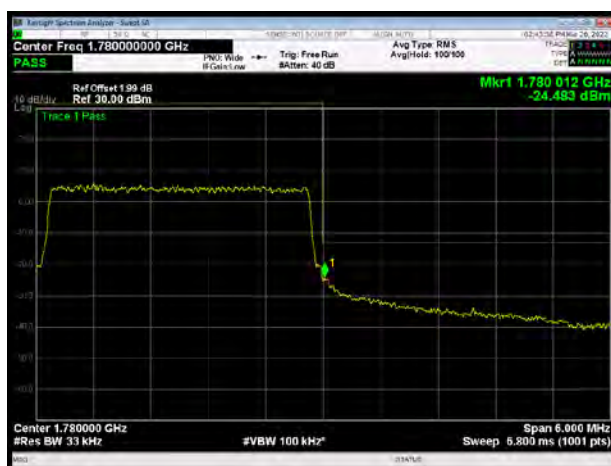
LTE Band 66 QPSK 3MHz CH-High, 1 RB



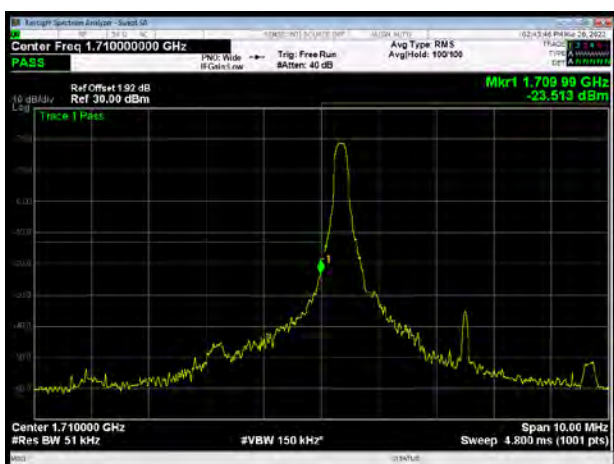
LTE Band 66 QPSK 3MHz CH-Low, 100%RB



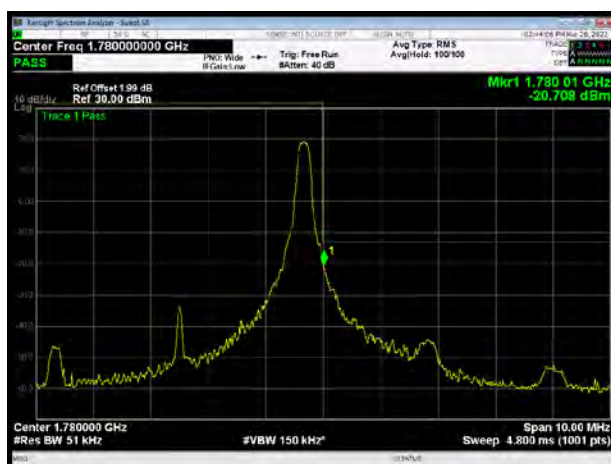
LTE Band 66 QPSK 3MHz CH-High, 100%RB



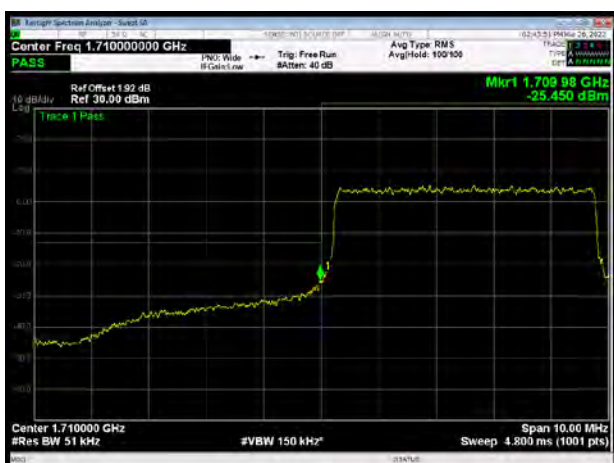
LTE Band 66 QPSK 5MHz CH-Low, 1 RB



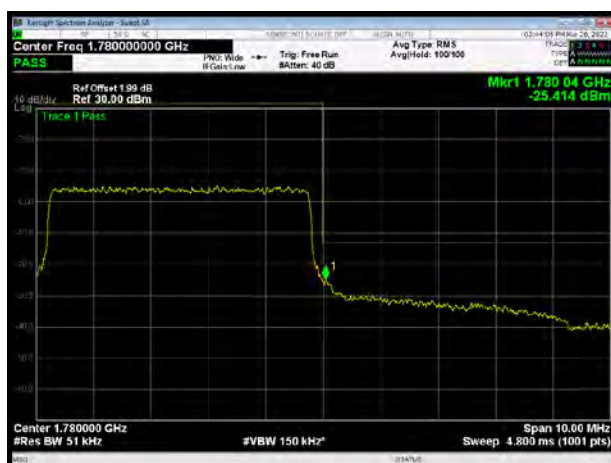
LTE Band 66 QPSK 5MHz CH-High, 1 RB



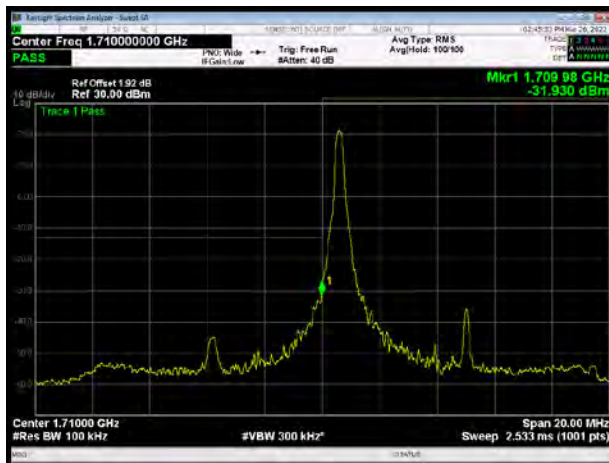
LTE Band 66 QPSK 5MHz CH-Low, 100%RB



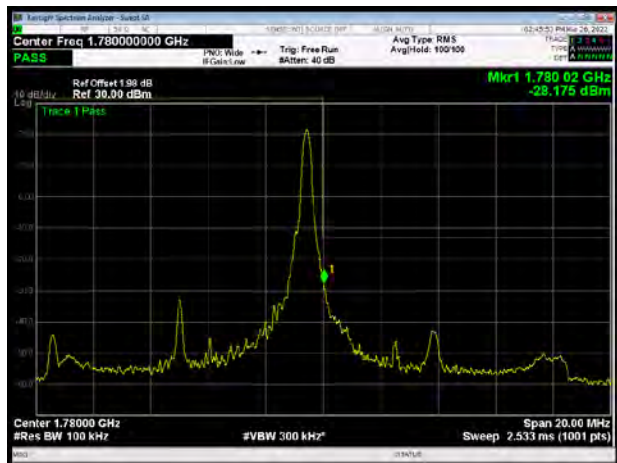
LTE Band 66 QPSK 5MHz CH-High, 100%RB



LTE Band 66 QPSK 10MHz CH-Low, 1 RB



LTE Band 66 QPSK 10MHz CH-High, 1 RB



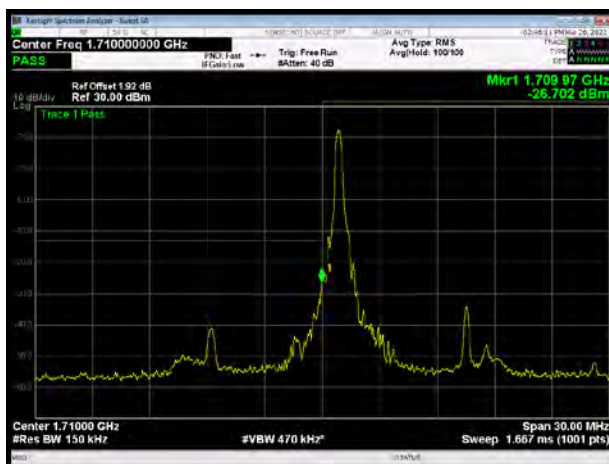
LTE Band 66 QPSK 10MHz CH-Low, 100%RB



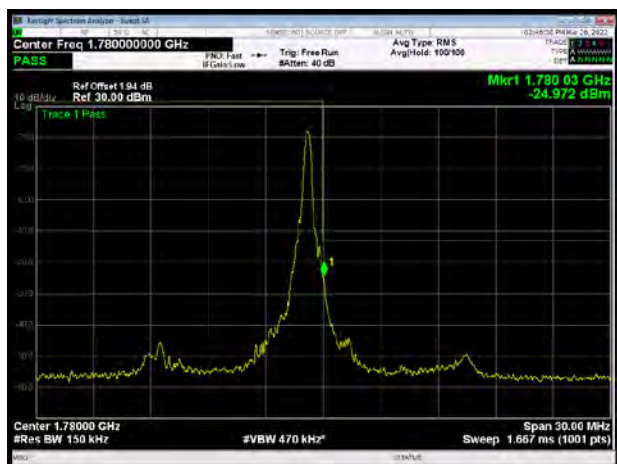
LTE Band 66 QPSK 10MHz CH-High, 100%RB



LTE Band 66 QPSK 15MHz CH-Low, 1 RB



LTE Band 66 QPSK 15MHz CH-High, 1 RB



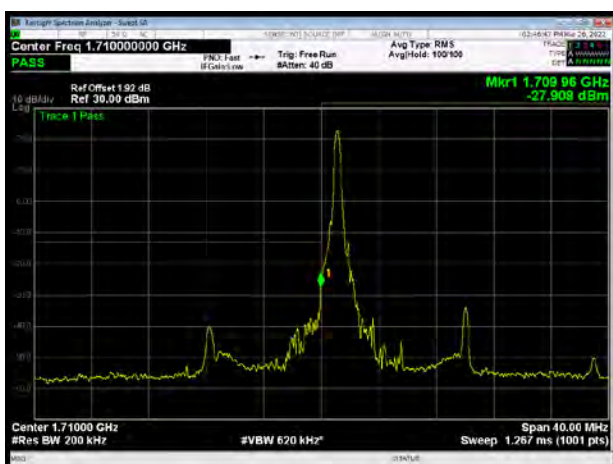
LTE Band 66 QPSK 15MHz CH-Low, 100%RB



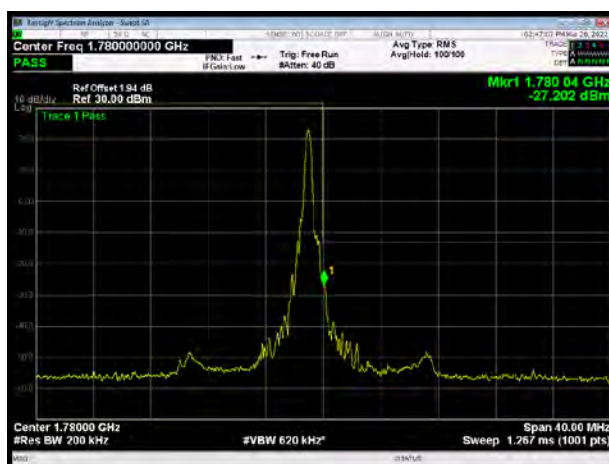
LTE Band 66 QPSK 15MHz CH-High, 100%RB



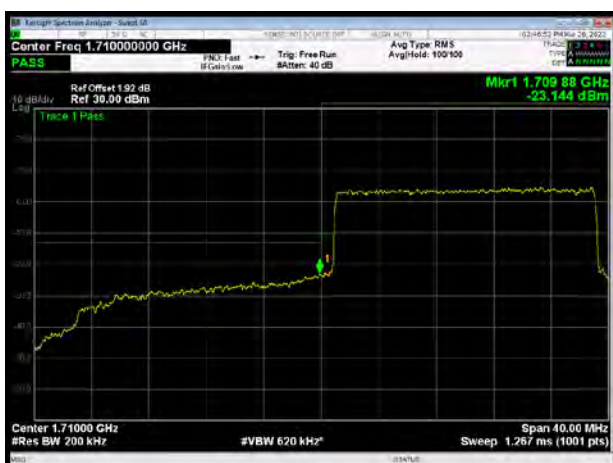
LTE Band 66 QPSK 20MHz CH-Low, 1 RB



LTE Band 66 QPSK 20MHz CH-High, 1 RB



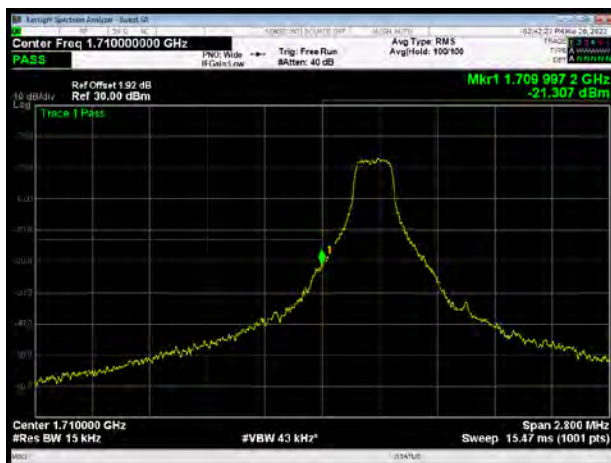
LTE Band 66 QPSK 20MHz CH-Low, 100%RB



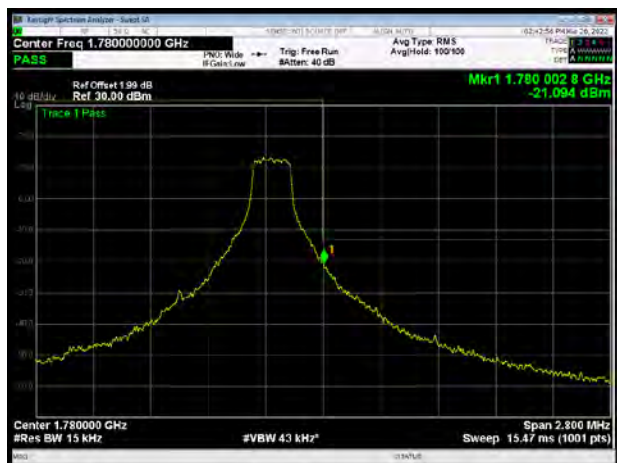
LTE Band 66 QPSK 20MHz CH-High, 100%RB



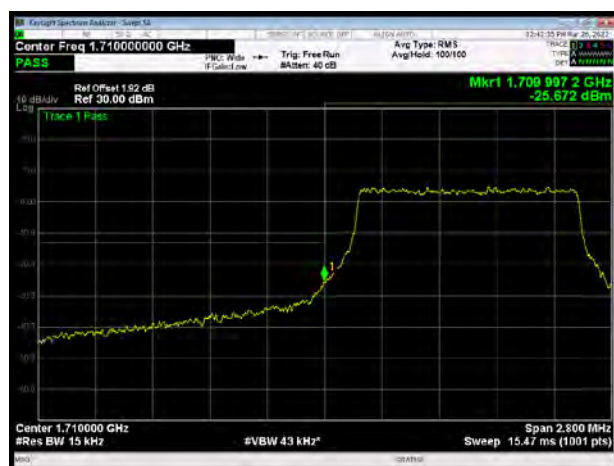
LTE Band 66 16QAM 1.4MHz CH-Low, 1 RB



LTE Band 66 16QAM 1.4MHz CH-High, 1 RB



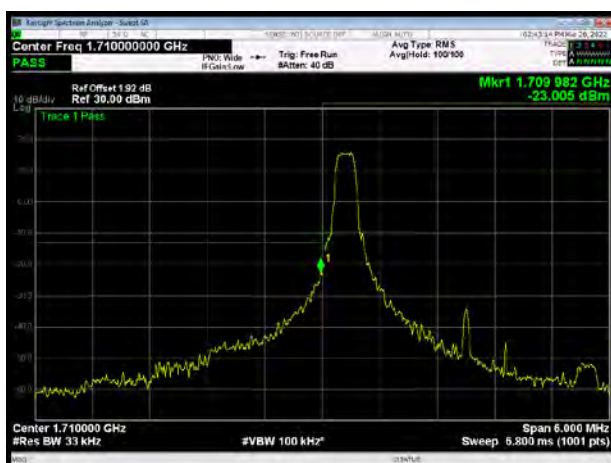
LTE Band 66 16QAM 1.4MHz CH-Low, 100%RB



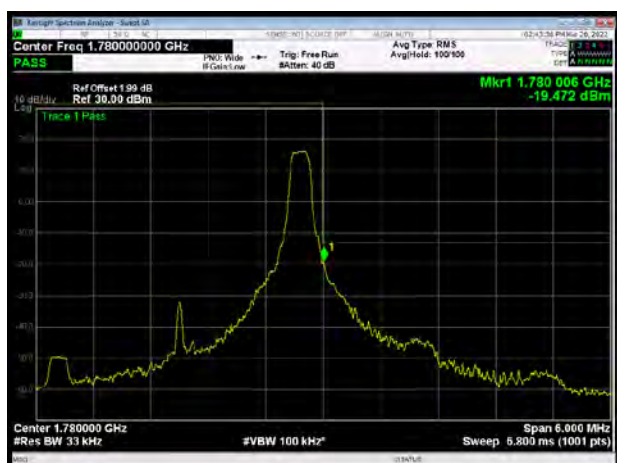
LTE Band 66 16QAM 1.4MHz CH-High, 100%RB



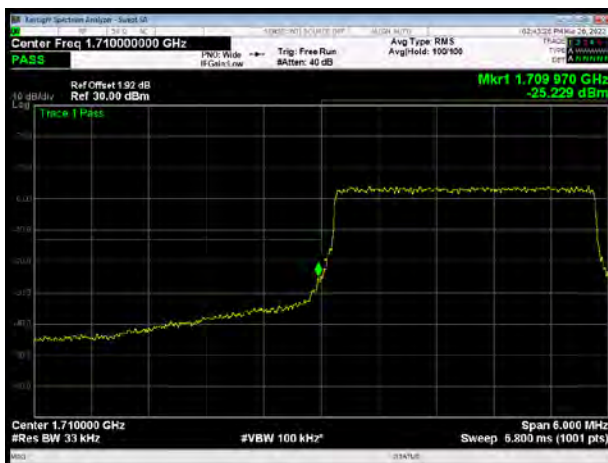
LTE Band 66 16QAM 3MHz CH-Low, 1 RB



LTE Band 66 16QAM 3MHz CH-High, 1 RB



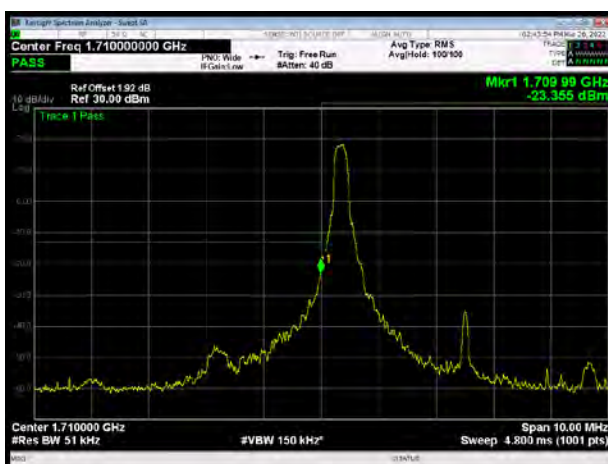
LTE Band 66 16QAM 3MHz CH-Low, 100%RB



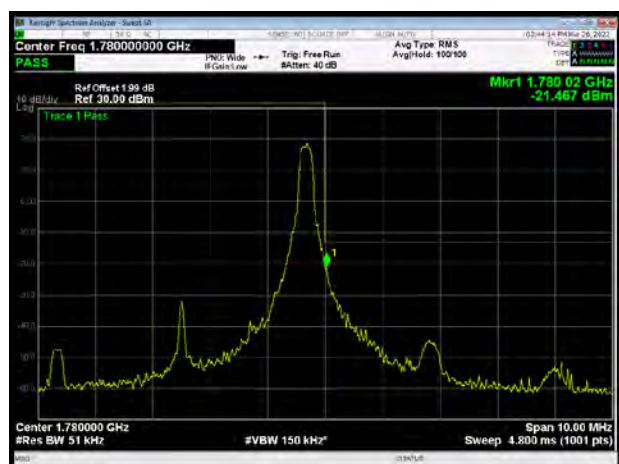
LTE Band 66 16QAM 3MHz CH-High, 100%RB



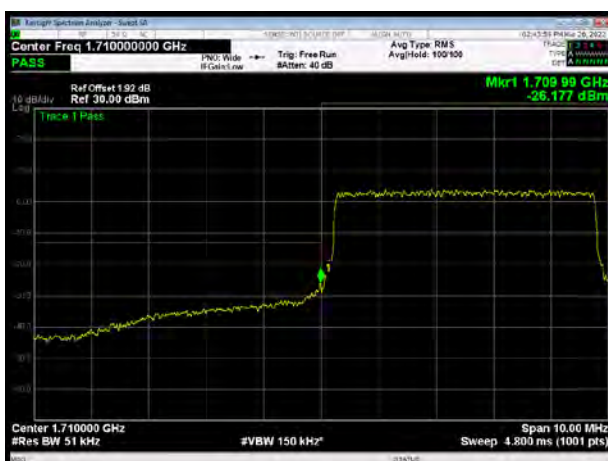
LTE Band 66 16QAM 5MHz CH-Low, 1 RB



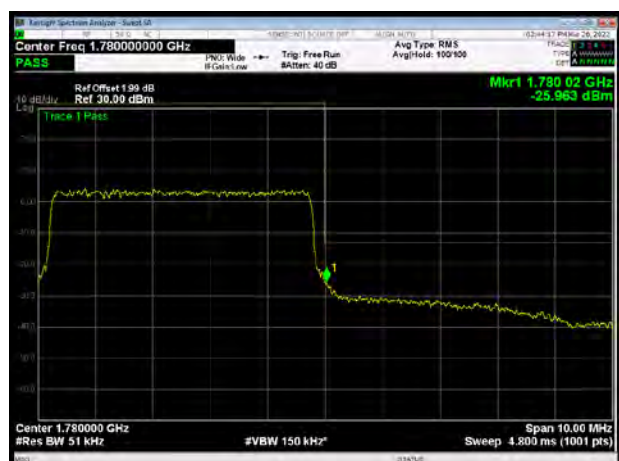
LTE Band 66 16QAM 5MHz CH-High, 1 RB



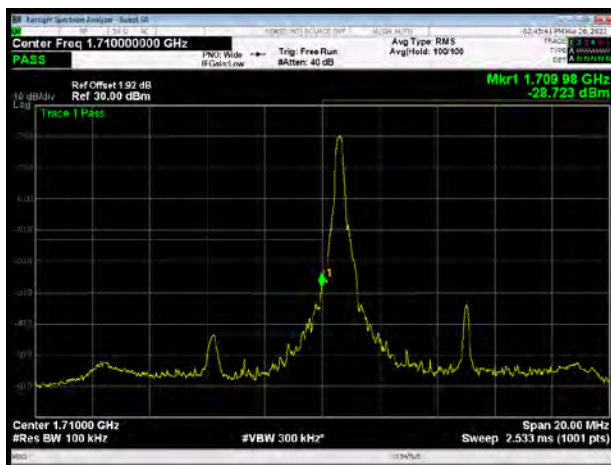
LTE Band 66 16QAM 5MHz CH-Low, 100%RB



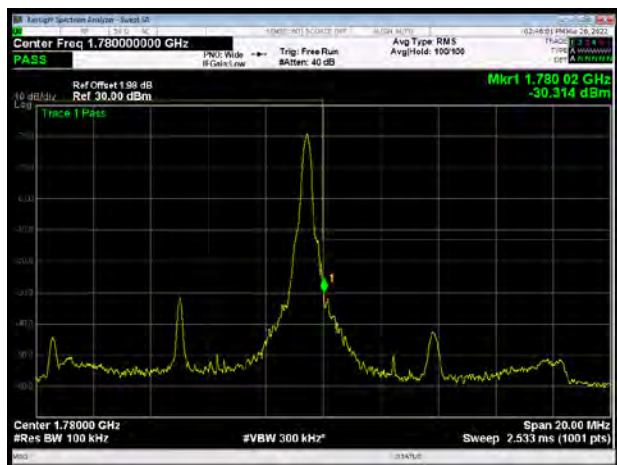
LTE Band 66 16QAM 5MHz CH-High, 100%RB



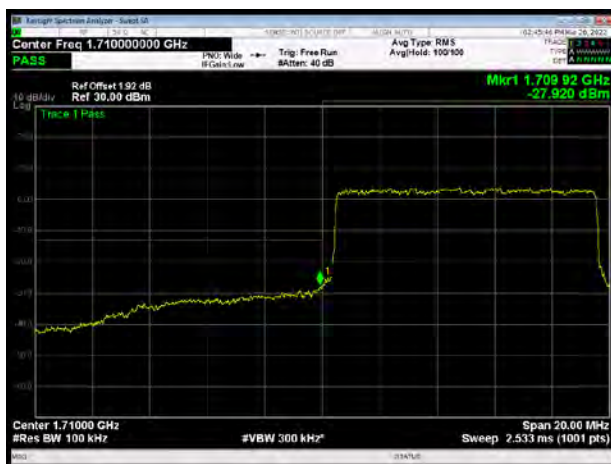
LTE Band 66 16QAM 10MHz CH-Low, 1 RB



LTE Band 66 16QAM 10MHz CH-High, 1 RB



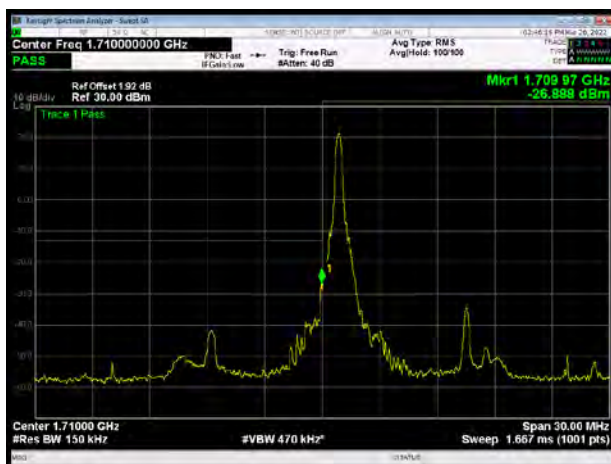
LTE Band 66 16QAM 10MHz CH-Low, 100%RB



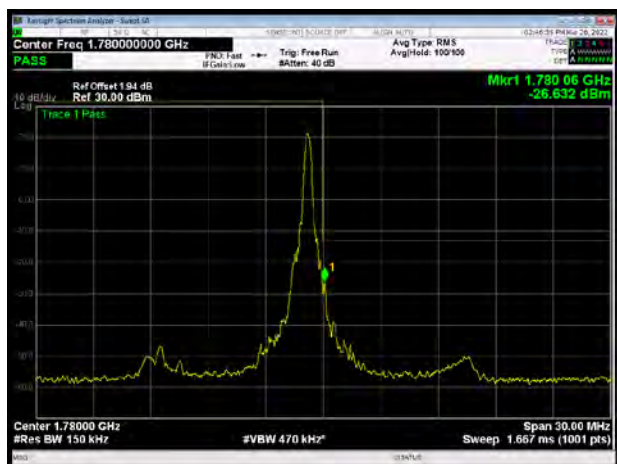
LTE Band 66 16QAM 10MHz CH-High, 100%RB



LTE Band 66 16QAM 15MHz CH-Low, 1 RB



LTE Band 66 16QAM 15MHz CH-High, 1 RB



LTE Band 66 16QAM 15MHz CH-Low, 100%RB



LTE Band 66 16QAM 15MHz CH-High, 100%RB



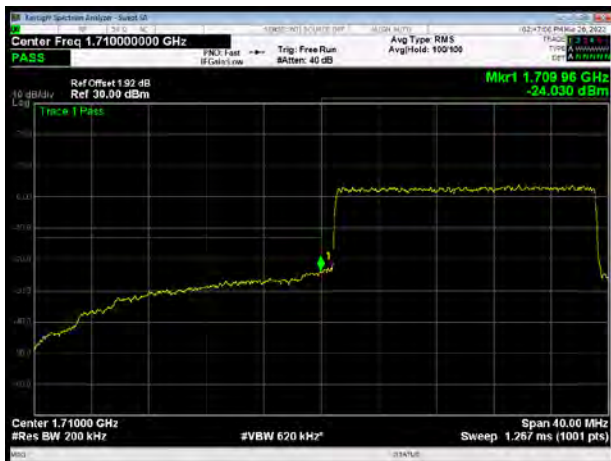
LTE Band 66 16QAM 20MHz CH-Low, 1 RB



LTE Band 66 16QAM 20MHz CH-High, 1 RB



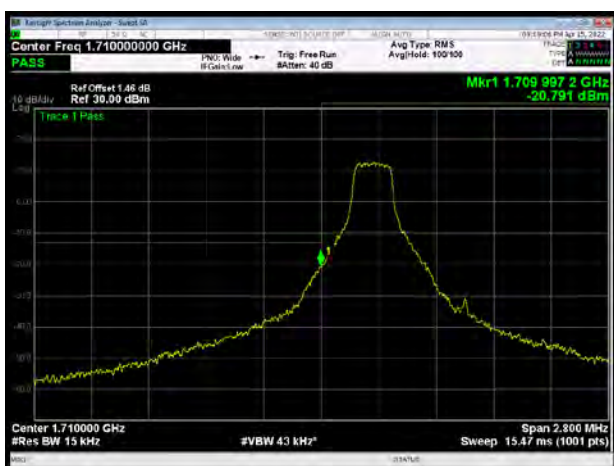
LTE Band 66 16QAM 20MHz CH-Low, 100%RB



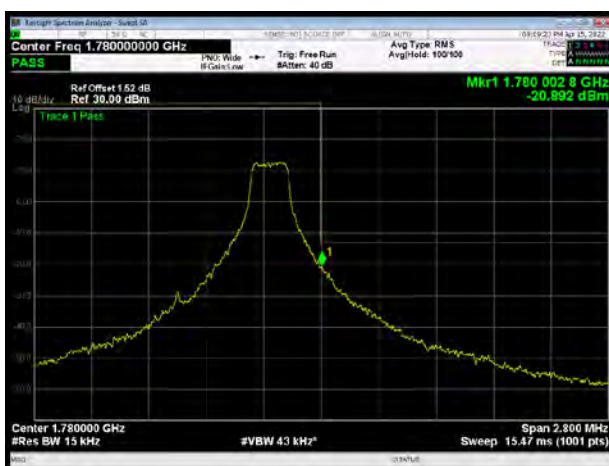
LTE Band 66 16QAM 20MHz CH-High, 100%RB



LTE Band 66 64QAM 1.4MHz CH-Low, 1 RB



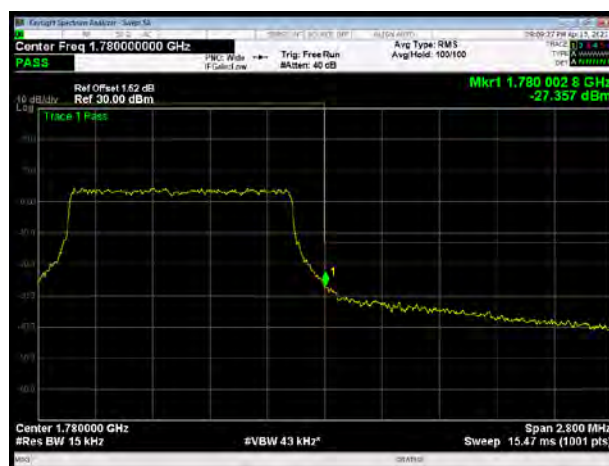
LTE Band 66 64QAM 1.4MHz CH-High, 1 RB



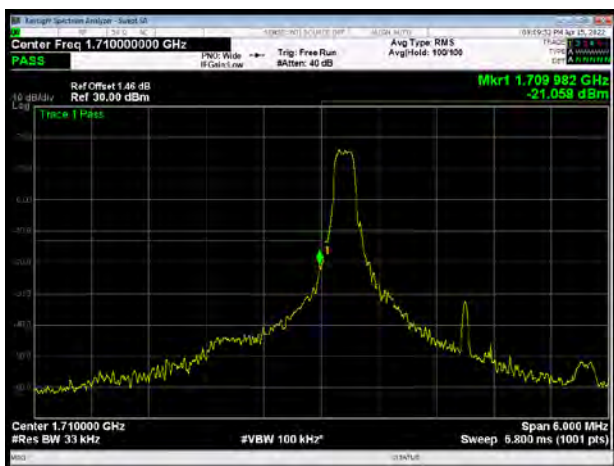
LTE Band 66 64QAM 1.4MHz CH-Low, 100%RB



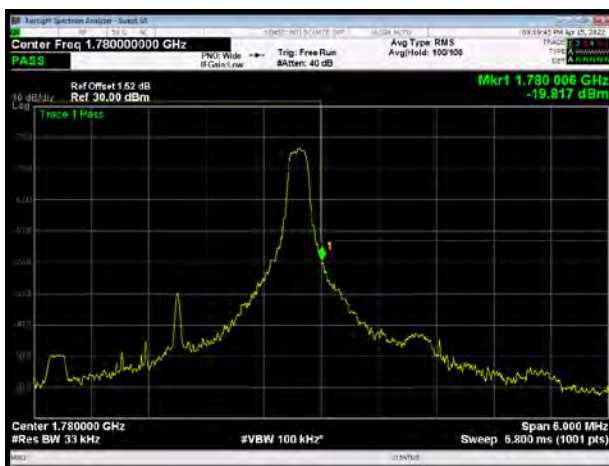
LTE Band 66 64QAM 1.4MHz CH-High, 100%RB



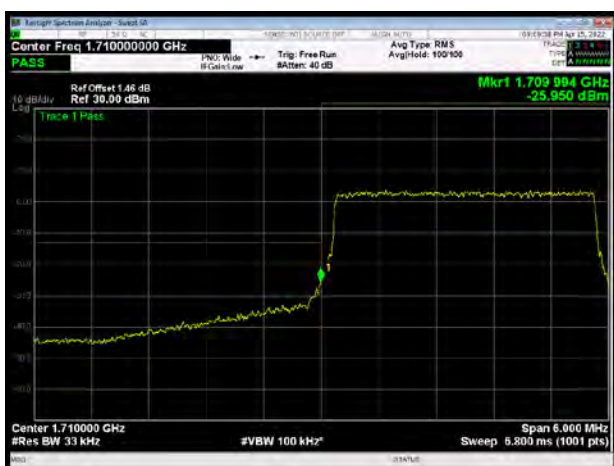
LTE Band 66 64QAM 3MHz CH-Low, 1 RB



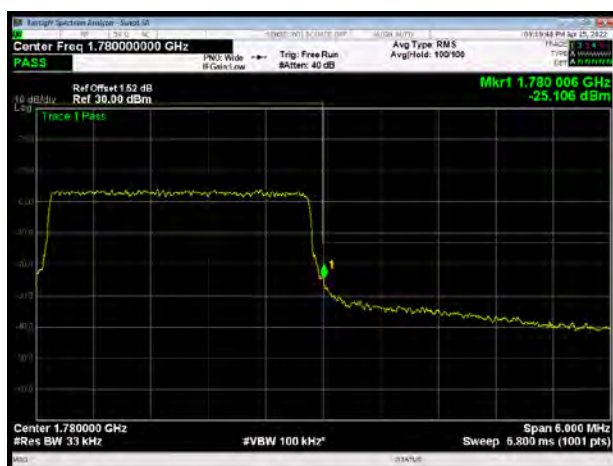
LTE Band 66 64QAM 3MHz CH-High, 1 RB



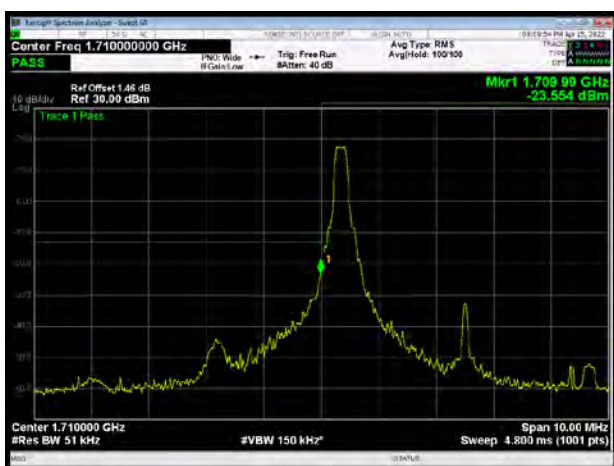
LTE Band 66 64QAM 3MHz CH-Low, 100%RB



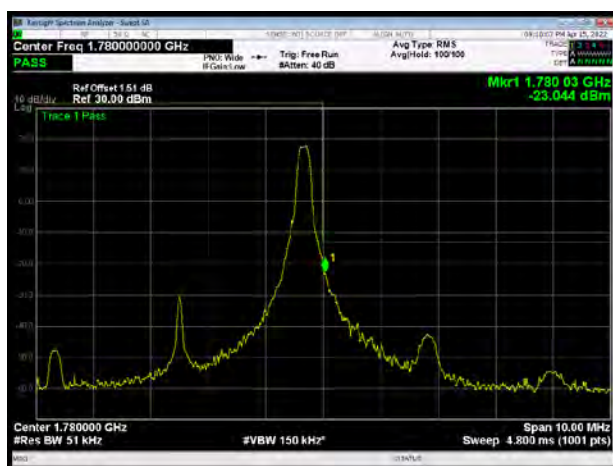
LTE Band 66 64QAM 3MHz CH-High, 100%RB



LTE Band 66 64QAM 5MHz CH-Low, 1 RB



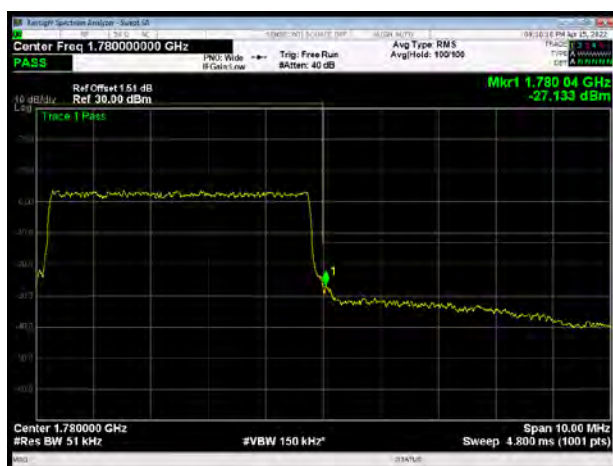
LTE Band 66 64QAM 5MHz CH-High, 1 RB



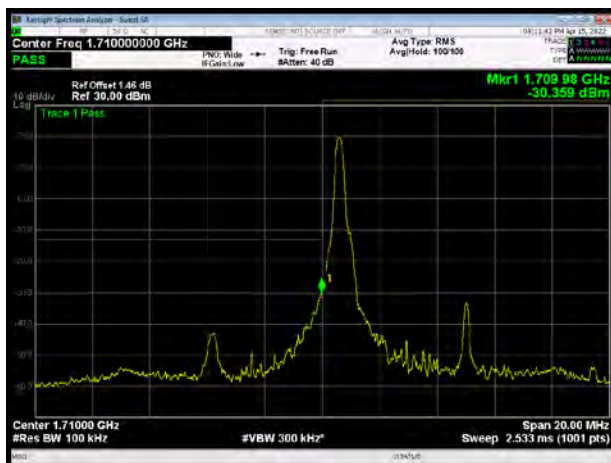
LTE Band 66 64QAM 5MHz CH-Low, 100%RB



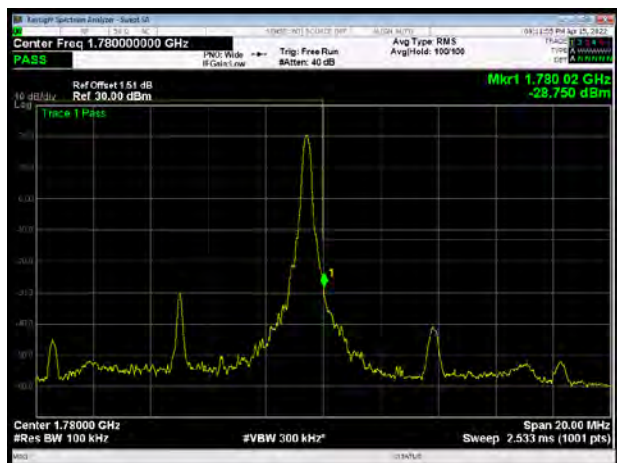
LTE Band 66 64QAM 5MHz CH-High, 100%RB



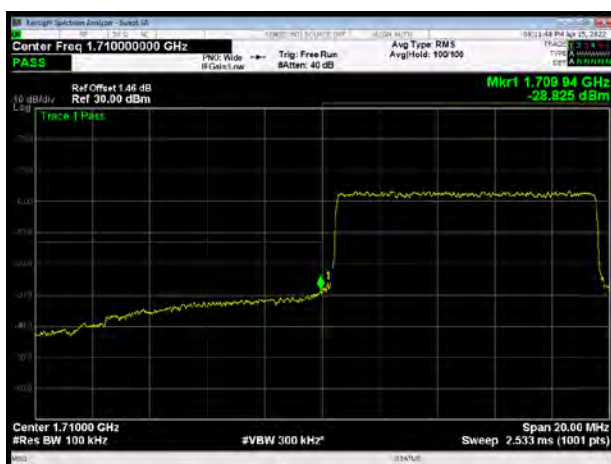
LTE Band 66 64QAM 10MHz CH-Low, 1 RB



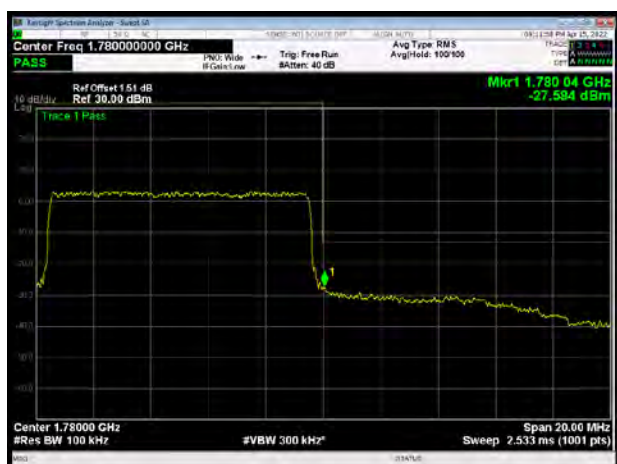
LTE Band 66 64QAM 10MHz CH-High, 1 RB



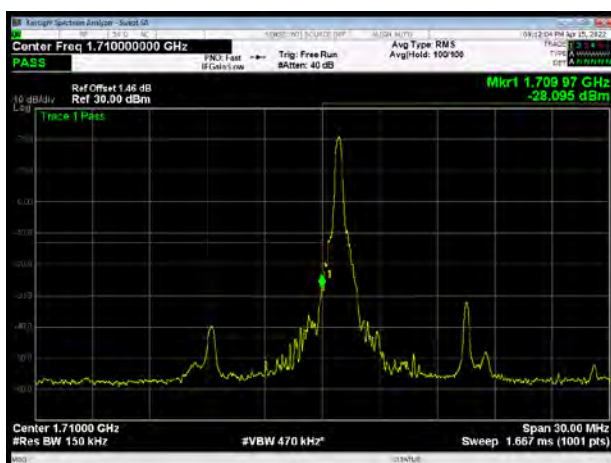
LTE Band 66 64QAM 10MHz CH-Low, 100%RB



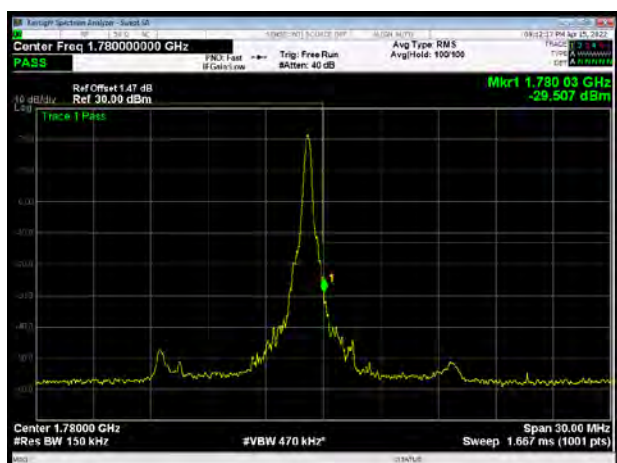
LTE Band 66 64QAM 10MHz CH-High, 100%RB



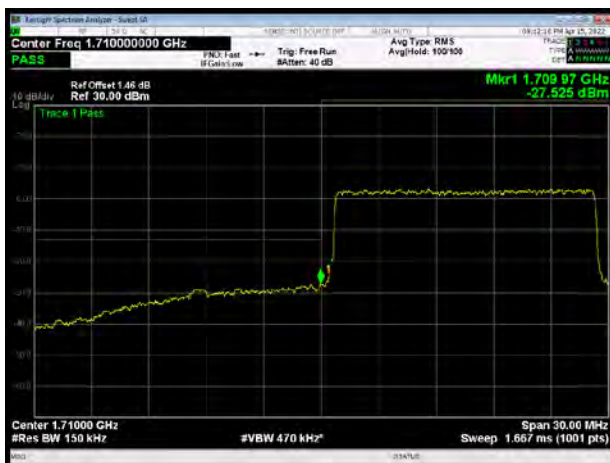
LTE Band 66 64QAM 15MHz CH-Low, 1 RB



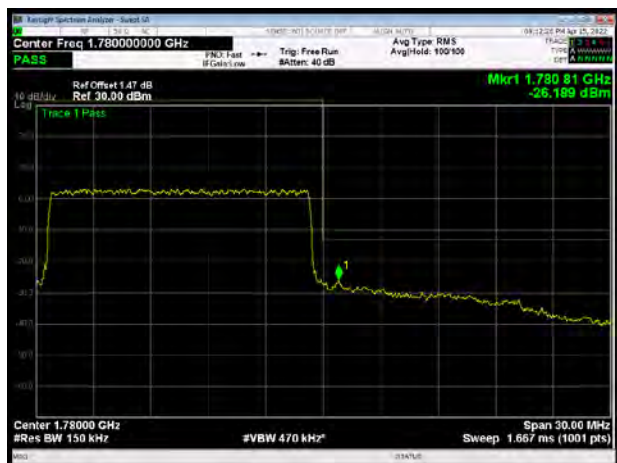
LTE Band 66 64QAM 15MHz CH-High, 1 RB



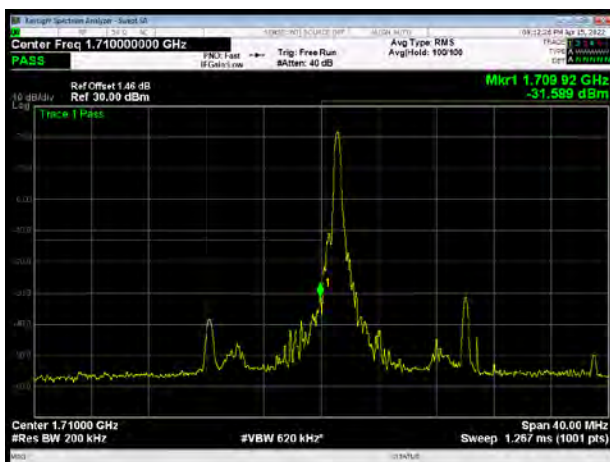
LTE Band 66 64QAM 15MHz CH-Low, 100%RB



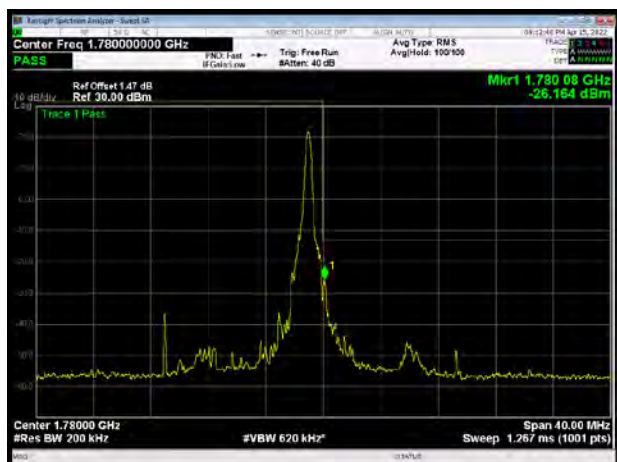
LTE Band 66 64QAM 15MHz CH-High, 100%RB



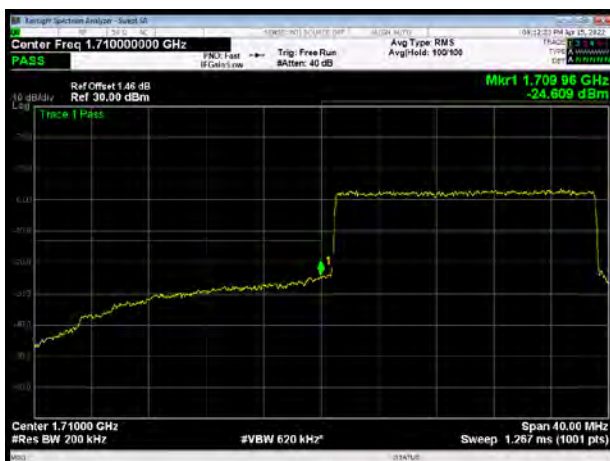
LTE Band 66 64QAM 20MHz CH-Low, 1 RB



LTE Band 66 64QAM 20MHz CH-High, 1 RB



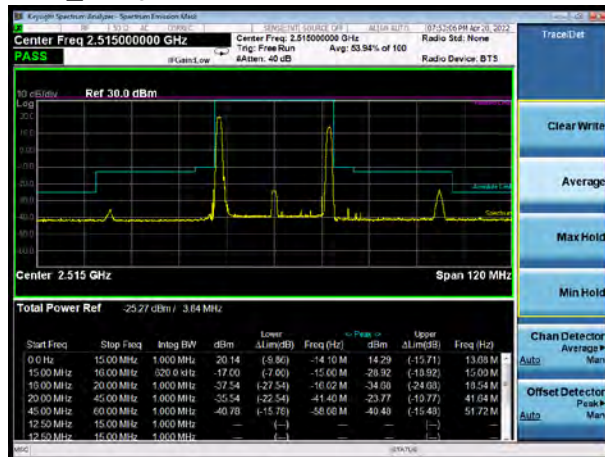
LTE Band 66 64QAM 20MHz CH-Low, 100%RB



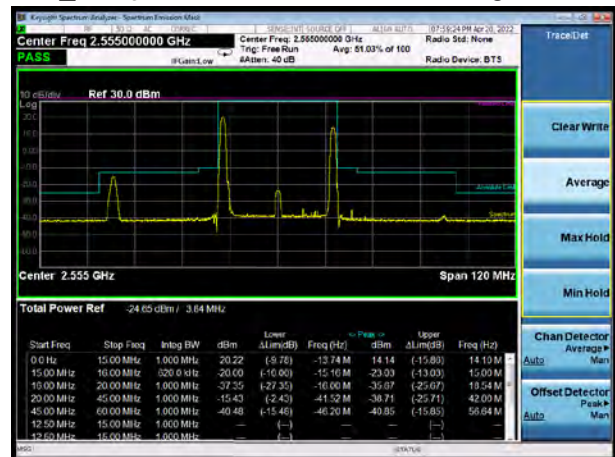
LTE Band 66 64QAM 20MHz CH-High, 100%RB

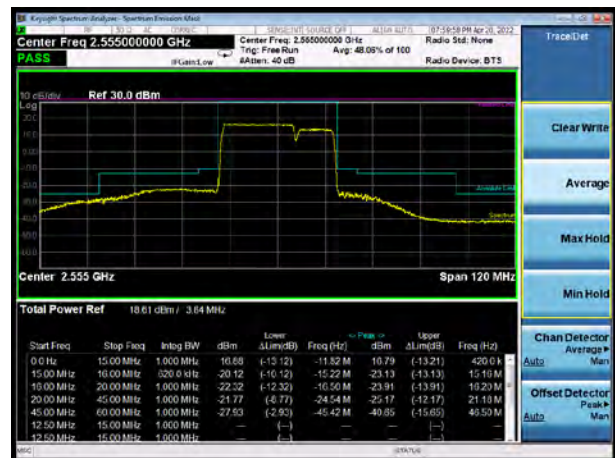


CA_7C QPSK 20MHz+10MHz CH-Low, RB 1



CA_7C QPSK 20MHz+10MHz CH- High, RB 1

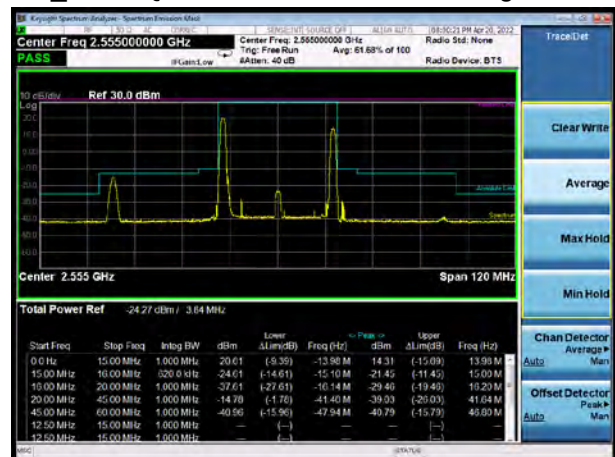

CA_7C QPSK 20MHz+10MHz CH-Low,
100%RB

CA_7C QPSK 20MHz+10MHz CH- High,
100%RB


CA_7C 16QAM 20MHz+10MHz CH-Low, RB 1



CA_7C 16QAM 20MHz+10MHz CH- High, RB 1

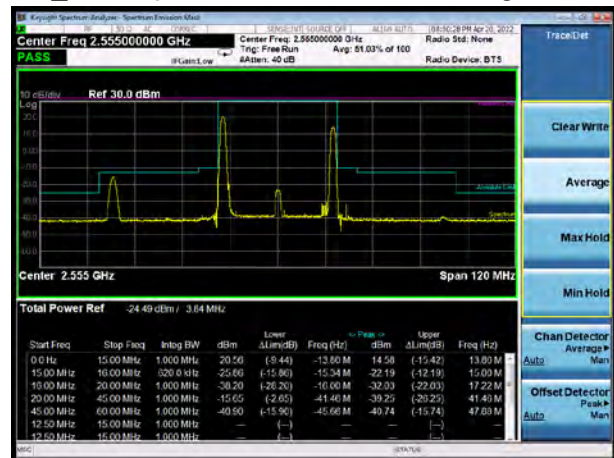


CA_7C 16QAM 20MHz+10MHz CH-Low,
100%RBCA_7C 16QAM 20MHz+10MHz CH- High,
100%RB

CA_7C 64QAM 20MHz+10MHz CH-Low, RB 1

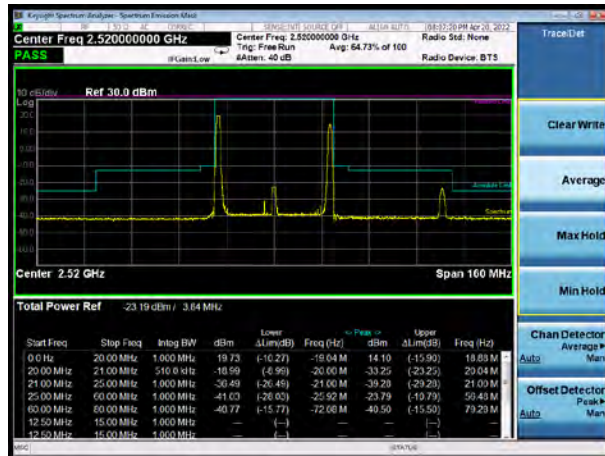


CA_7C 64QAM 20MHz+10MHz CH- High, RB 1

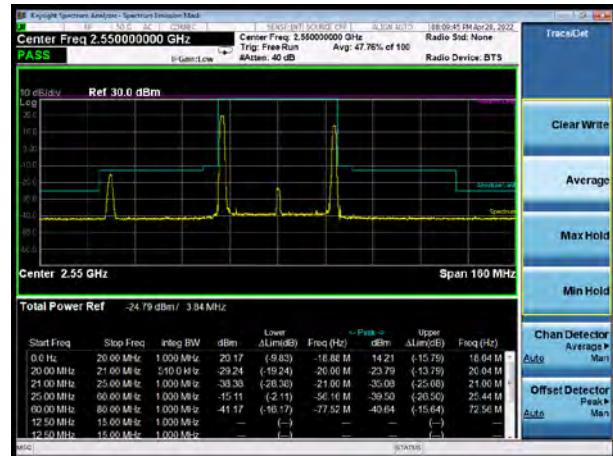
CA_7C 64QAM 20MHz+10MHz CH-Low,
100%RBCA_7C 64QAM 20MHz+10MHz CH- High,
100%RB



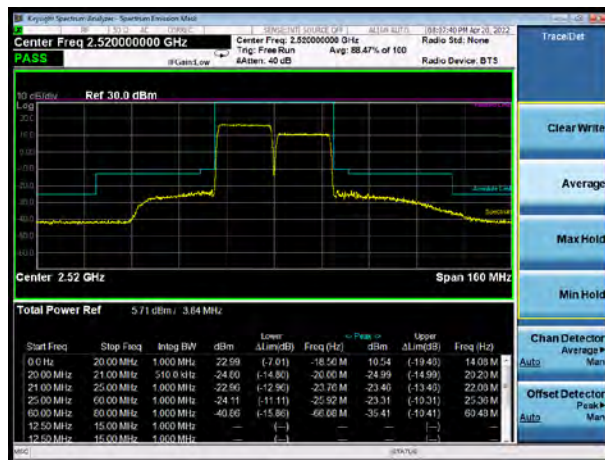
CA_7C QPSK 20MHz+20MHz CH-Low, RB 1



CA_7C QPSK 20MHz+20MHz CH- High, RB 1



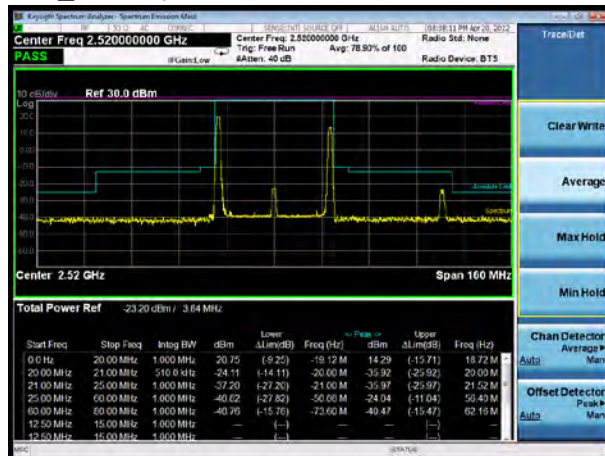
CA_7C QPSK 20MHz+20MHz CH-Low, 100%RB



CA_7C QPSK 20MHz+20MHz CH- High, 100%RB



CA_7C 16QAM 20MHz+20MHz CH-Low, RB 1



CA_7C 16QAM 20MHz+20MHz CH- High, RB 1

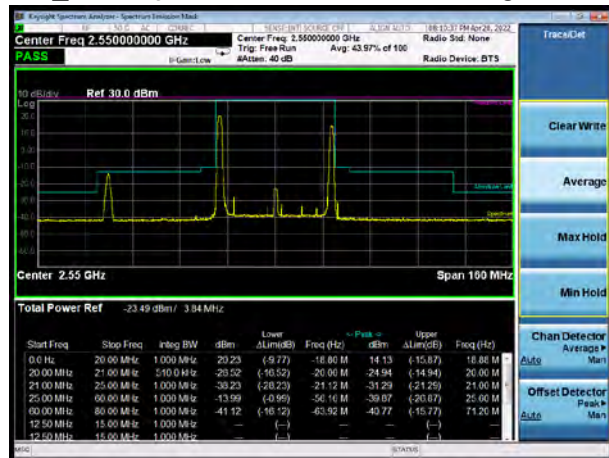


CA_7C 16QAM 20MHz+20MHz CH-Low,
100%RBCA_7C 16QAM 20MHz+20MHz CH- High,
100%RB

CA_7C 64QAM 20MHz+20MHz CH-Low, RB 1



CA_7C 64QAM 20MHz+20MHz CH- High, RB 1

CA_7C 64QAM 20MHz+20MHz CH-Low,
100%RBCA_7C 64QAM 20MHz+20MHz CH- High,
100%RB



NR n66 P1/2 BPSK 20MHzCH-Low 1RB



NR n66 P1/2 BPSK 20MHzCH-High 1RB



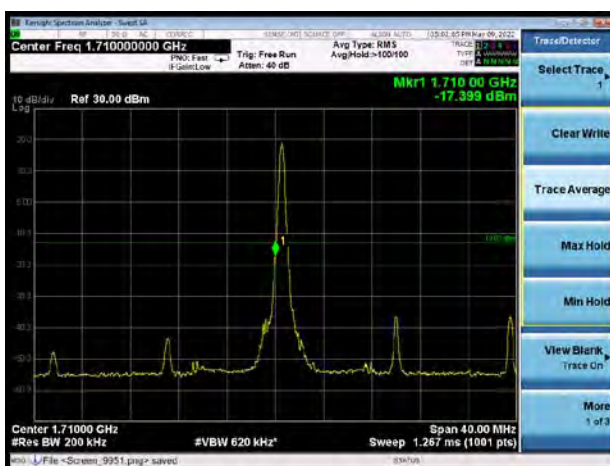
NR n66 P1/2 BPSK 20MHzCH-Low 100%RB



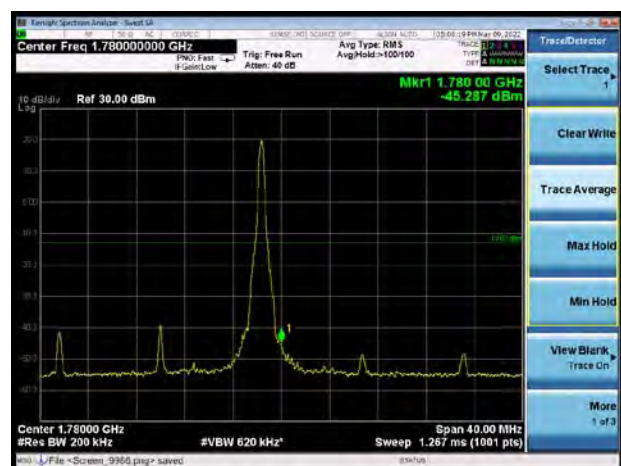
NR n66 P1/2 BPSK 20MHzCH-High 100%RB



NR n66 QPSK 20MHzCH-Low 1RB



NR n66 QPSK 20MHzCH-High 1RB





NR n66 QPSK 20MHzCH-Low 100%RB



NR n66 QPSK 20MHzCH-High 100%RB



NR n66 16QAM 20MHzCH-Low 1RB



NR n66 16QAM 20MHzCH-High 1RB



NR n66 16QAM 20MHzCH-Low 100%RB

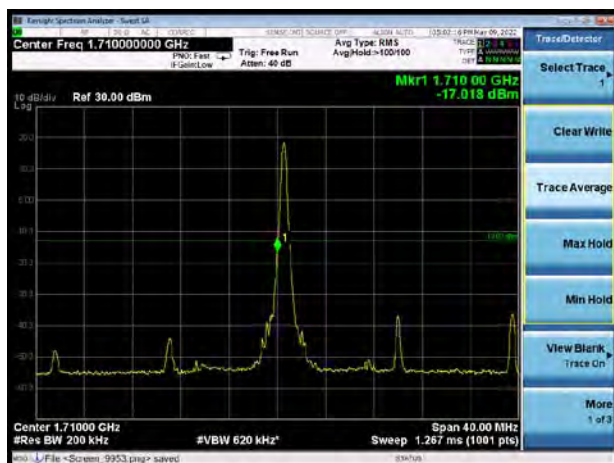


NR n66 16QAM 20MHzCH-High 100%RB

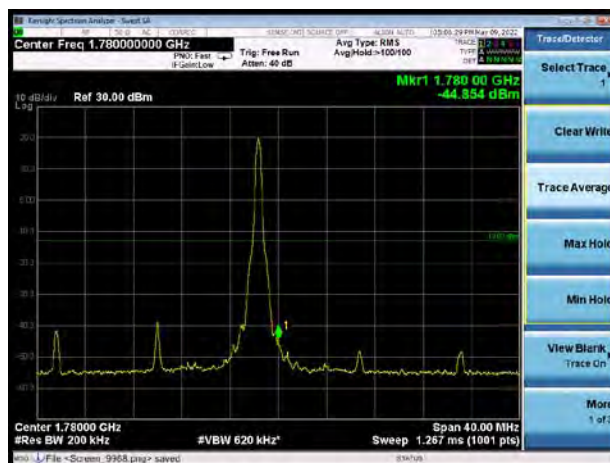




NR n66 64QAM 20MHzCH-Low 1RB



NR n66 64QAM 20MHzCH-High 1RB



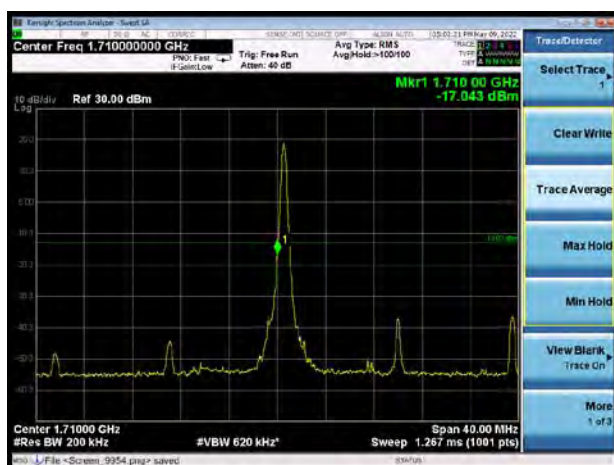
NR n66 64QAM 20MHzCH-Low 100%RB



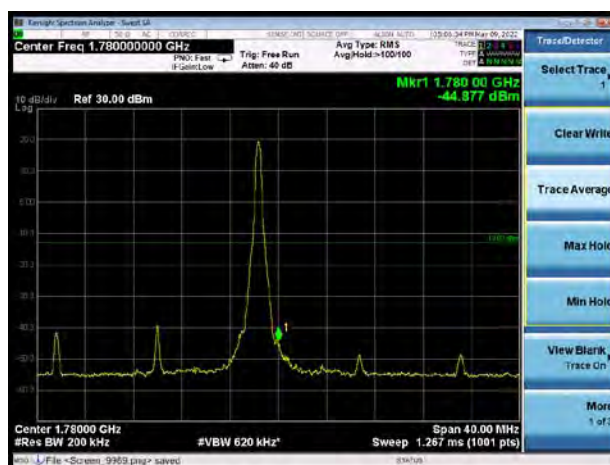
NR n66 64QAM 20MHzCH-High 100%RB



NR n66 256QAM 20MHzCH-Low 1RB



NR n66 256QAM 20MHzCH-High 1RB





NR n66 256QAM 20MHzCH-Low 100%RB

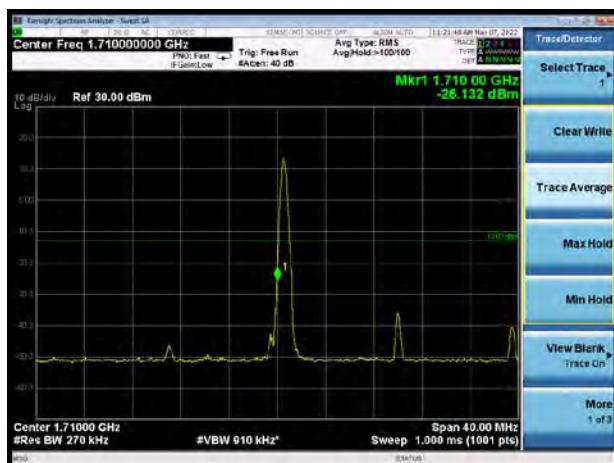


NR n66 256QAM 20MHzCH-High 100%RB

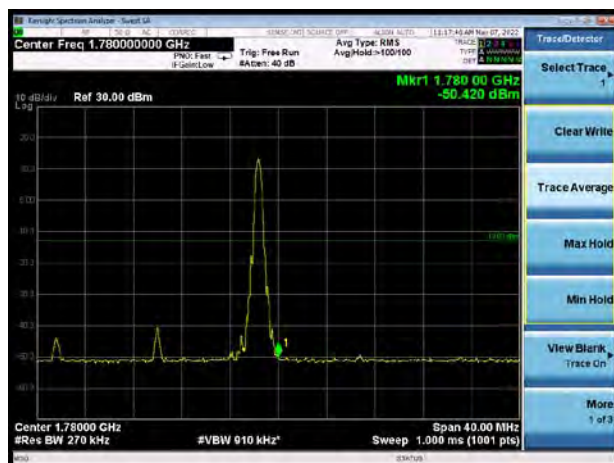
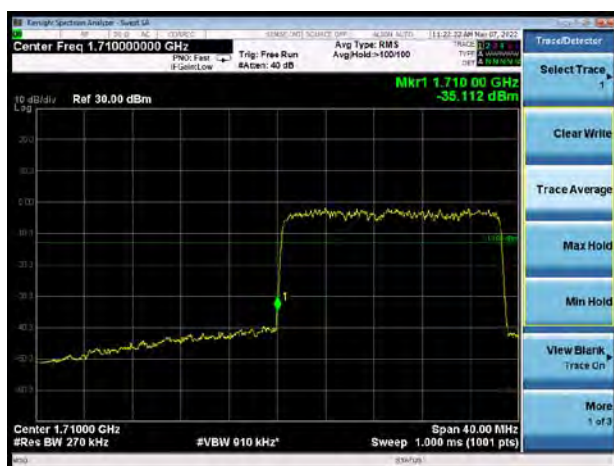
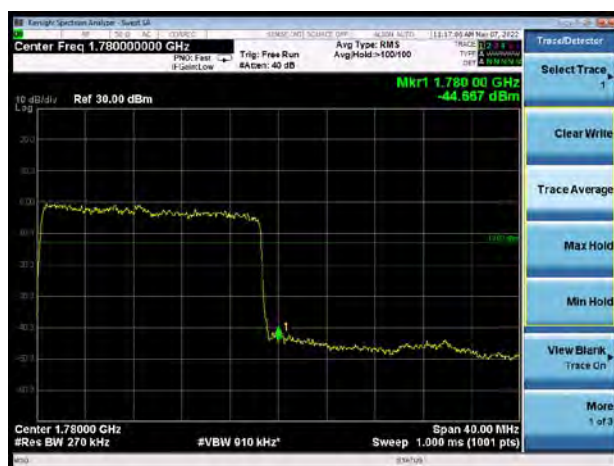




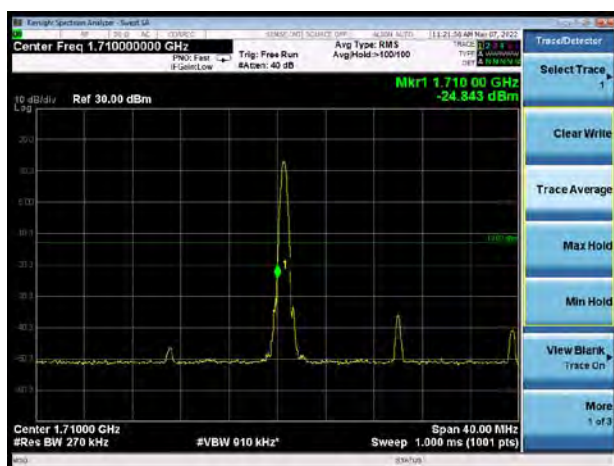
DC_5A-n66A P1/2 BPSK 20MHzCH-Low 1RB



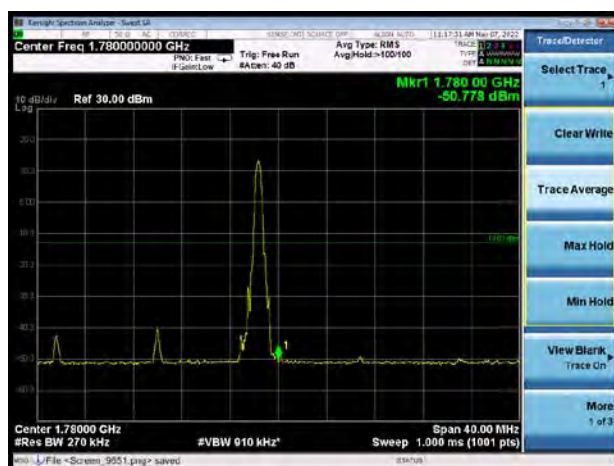
DC_5A-n66A P1/2 BPSK 20MHzCH-High 1RB

DC_5A-n66A P1/2 BPSK 20MHzCH-Low
100%RBDC_5A-n66A P1/2 BPSK 20MHzCH-High
100%RB

DC_5A-n66A QPSK 20MHzCH-Low 1RB



DC_5A-n66A QPSK 20MHzCH-High 1RB





DC_5A-n66A QPSK 20MHzCH-Low 100%RB



DC_5A-n66A QPSK 20MHzCH-High 100%RB



DC_5A-n66A 16QAM 20MHzCH-Low 1RB



DC_5A-n66A 16QAM 20MHzCH-High 1RB



DC_5A-n66A 16QAM 20MHzCH-Low 100%RB



DC_5A-n66A 16QAM 20MHzCH-High 100%RB





DC_5A-n66A 64QAM 20MHzCH-Low 1RB



DC_5A-n66A 64QAM 20MHzCH-High 1RB



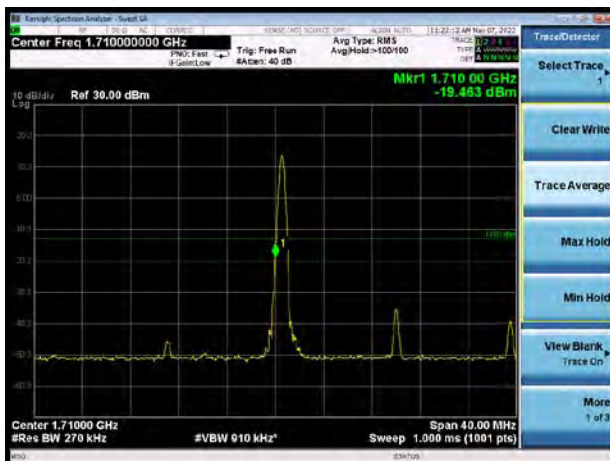
DC_5A-n66A 64QAM 20MHzCH-Low 100%RB



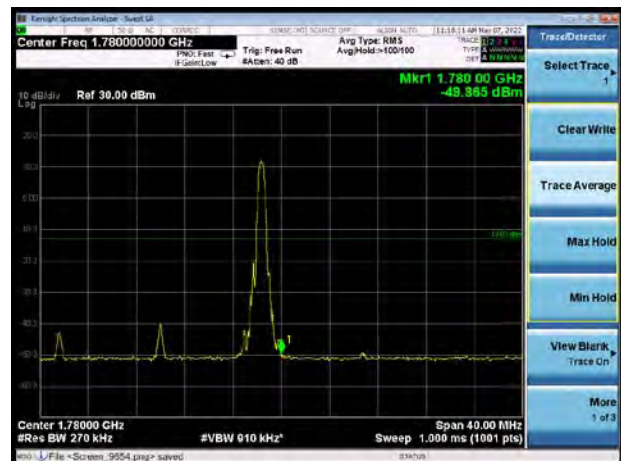
DC_5A-n66A 64QAM 20MHzCH-High 100%RB



DC_5A-n66A 256QAM 20MHzCH-Low 1RB



DC_5A-n66A 256QAM 20MHzCH-High 1RB





DC_5A-n66A 256QAM 20MHzCH-Low 100%RB



DC_5A-n66A 256QAM 20MHzCH-High 100%RB



6.4 Peak-to-Average Power Ratio (PAPR)

LTE Band 4								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	19957	1710.7	26.99	22.67	4.32	≤13	PASS
		20175	1732.5	27.16	22.83	4.33	≤13	PASS
		20393	1754.3	27.07	22.77	4.30	≤13	PASS
	3	19965	1711.5	27.05	22.70	4.35	≤13	PASS
		20175	1732.5	27.21	22.77	4.44	≤13	PASS
		20385	1753.5	27.14	22.81	4.33	≤13	PASS
	5	19975	1712.5	27.17	22.77	4.40	≤13	PASS
		20175	1732.5	27.29	22.81	4.48	≤13	PASS
		20375	1752.5	27.09	22.80	4.29	≤13	PASS
	10	20000	1715	27.57	22.91	4.66	≤13	PASS
		20175	1732.5	27.60	22.99	4.61	≤13	PASS
		20350	1750	27.50	23.06	4.44	≤13	PASS
	15	20025	1717.5	27.65	22.84	4.81	≤13	PASS
		20175	1732.5	27.69	22.87	4.82	≤13	PASS
		20325	1747.5	27.61	22.92	4.69	≤13	PASS
	20	20050	1720	27.77	22.92	4.85	≤13	PASS
		20175	1732.5	27.79	22.91	4.88	≤13	PASS
		20300	1745	27.68	22.91	4.77	≤13	PASS
16QAM	1.4	19957	1710.7	26.97	21.63	5.34	≤13	PASS
		20175	1732.5	27.13	21.82	5.31	≤13	PASS
		20393	1754.3	27.04	21.81	5.23	≤13	PASS
	3	19965	1711.5	27.06	21.73	5.33	≤13	PASS
		20175	1732.5	27.17	21.78	5.39	≤13	PASS
		20385	1753.5	27.08	21.82	5.26	≤13	PASS
	5	19975	1712.5	27.19	21.75	5.44	≤13	PASS
		20175	1732.5	27.22	21.81	5.41	≤13	PASS
		20375	1752.5	27.10	21.79	5.31	≤13	PASS
	10	20000	1715	27.52	21.95	5.57	≤13	PASS
		20175	1732.5	27.51	22.00	5.51	≤13	PASS
		20350	1750	27.40	22.03	5.37	≤13	PASS
	15	20025	1717.5	27.69	21.87	5.82	≤13	PASS
		20175	1732.5	27.67	21.88	5.79	≤13	PASS
		20325	1747.5	27.59	21.93	5.66	≤13	PASS
	20	20050	1720	27.80	21.94	5.86	≤13	PASS



		20175	1732.5	27.78	21.92	5.86	≤13	PASS
		20300	1745	27.68	21.91	5.77	≤13	PASS
64QAM	1.4	19957	1710.7	26.22	20.95	5.27	≤13	PASS
		20175	1732.5	26.43	21.17	5.26	≤13	PASS
		20393	1754.3	26.29	21.11	5.18	≤13	PASS
	3	19965	1711.5	26.30	20.99	5.31	≤13	PASS
		20175	1732.5	26.43	21.07	5.36	≤13	PASS
		20385	1753.5	26.33	21.12	5.21	≤13	PASS
	5	19975	1712.5	26.34	21.02	5.32	≤13	PASS
		20175	1732.5	26.48	21.10	5.38	≤13	PASS
		20375	1752.5	26.34	21.11	5.23	≤13	PASS
	10	20000	1715	26.57	21.07	5.50	≤13	PASS
		20175	1732.5	26.63	21.12	5.51	≤13	PASS
		20350	1750	26.55	21.20	5.35	≤13	PASS
	15	20025	1717.5	26.75	20.98	5.77	≤13	PASS
		20175	1732.5	26.81	21.06	5.75	≤13	PASS
		20325	1747.5	26.73	21.09	5.64	≤13	PASS
	20	20050	1720	26.87	21.03	5.84	≤13	PASS
		20175	1732.5	26.89	21.04	5.85	≤13	PASS
		20300	1745	26.79	21.02	5.77	≤13	PASS

LTE Band 7								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	20775	2502.5	26.41	21.98	4.43	≤13	PASS
		21100	2535	26.25	21.81	4.44	≤13	PASS
		21425	2567.5	26.27	21.84	4.43	≤13	PASS
	10	20800	2505	26.54	21.99	4.55	≤13	PASS
		21100	2535	26.39	21.83	4.56	≤13	PASS
		21400	2565	26.46	21.89	4.57	≤13	PASS
	15	20825	2507.5	26.59	21.84	4.75	≤13	PASS
		21100	2535	26.45	21.70	4.75	≤13	PASS
		21375	2562.5	26.58	21.80	4.78	≤13	PASS
	20	20850	2510	26.72	21.87	4.85	≤13	PASS
		21100	2535	26.56	21.76	4.80	≤13	PASS
		21350	2560	26.66	21.87	4.79	≤13	PASS
16QAM	5	20775	2502.5	26.39	20.97	5.42	≤13	PASS



		21100	2535	26.21	20.81	5.40	≤13	PASS
		21425	2567.5	26.27	20.88	5.39	≤13	PASS
	10	20800	2505	26.52	21.02	5.50	≤13	PASS
		21100	2535	26.36	20.86	5.50	≤13	PASS
		21400	2565	26.37	20.87	5.50	≤13	PASS
	15	20825	2507.5	26.60	20.87	5.73	≤13	PASS
		21100	2535	26.43	20.69	5.74	≤13	PASS
		21375	2562.5	26.58	20.83	5.75	≤13	PASS
	20	20850	2510	26.66	20.87	5.79	≤13	PASS
		21100	2535	26.57	20.77	5.80	≤13	PASS
		21350	2560	26.66	20.88	5.78	≤13	PASS
64QAM	5	20775	2502.5	25.44	20.06	5.38	≤13	PASS
		21100	2535	25.49	20.14	5.35	≤13	PASS
		21425	2567.5	25.57	20.20	5.37	≤13	PASS
	10	20800	2505	25.61	20.11	5.50	≤13	PASS
		21100	2535	25.63	20.16	5.47	≤13	PASS
		21400	2565	25.70	20.20	5.50	≤13	PASS
	15	20825	2507.5	25.71	19.97	5.74	≤13	PASS
		21100	2535	25.77	20.04	5.73	≤13	PASS
		21375	2562.5	25.91	20.16	5.75	≤13	PASS
	20	20850	2510	25.82	20.01	5.81	≤13	PASS
		21100	2535	25.84	20.04	5.80	≤13	PASS
		21350	2560	25.96	20.15	5.81	≤13	PASS

LTE Band 12								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	23017	699.7	28.36	23.91	4.45	≤13	PASS
		23095	707.5	28.32	23.85	4.47	≤13	PASS
		23173	715.3	28.34	23.91	4.43	≤13	PASS
	3	23025	700.5	28.40	23.92	4.48	≤13	PASS
		23095	707.5	28.38	23.87	4.51	≤13	PASS
		23165	714.5	28.37	23.88	4.49	≤13	PASS
	5	23035	701.5	28.56	23.97	4.59	≤13	PASS
		23095	707.5	28.49	23.93	4.56	≤13	PASS
		23155	713.5	28.44	23.88	4.56	≤13	PASS



	10	23060	704	28.70	23.99	4.71	≤13	PASS
		23095	707.5	28.61	23.90	4.71	≤13	PASS
		23130	711	28.68	24.00	4.68	≤13	PASS
16QAM	1.4	23017	699.7	28.36	22.93	5.43	≤13	PASS
		23095	707.5	28.26	22.84	5.42	≤13	PASS
		23173	715.3	28.31	22.91	5.40	≤13	PASS
	3	23025	700.5	28.40	22.95	5.45	≤13	PASS
		23095	707.5	28.37	22.90	5.47	≤13	PASS
		23165	714.5	28.34	22.89	5.45	≤13	PASS
	5	23035	701.5	28.52	22.97	5.55	≤13	PASS
		23095	707.5	28.43	22.91	5.52	≤13	PASS
		23155	713.5	28.44	22.92	5.52	≤13	PASS
	10	23060	704	28.62	22.99	5.63	≤13	PASS
		23095	707.5	28.56	22.94	5.62	≤13	PASS
		23130	711	28.65	23.00	5.65	≤13	PASS
64QAM	1.4	23017	699.7	27.66	22.25	5.41	≤13	PASS
		23095	707.5	27.59	22.21	5.38	≤13	PASS
		23173	715.3	27.63	22.28	5.35	≤13	PASS
	3	23025	700.5	27.73	22.29	5.44	≤13	PASS
		23095	707.5	27.67	22.24	5.43	≤13	PASS
		23165	714.5	27.66	22.23	5.43	≤13	PASS
	5	23035	701.5	27.83	22.31	5.52	≤13	PASS
		23095	707.5	27.71	22.26	5.45	≤13	PASS
		23155	713.5	27.71	22.22	5.49	≤13	PASS
	10	23060	704	27.95	22.33	5.62	≤13	PASS
		23095	707.5	27.87	22.29	5.58	≤13	PASS
		23130	711	27.95	22.33	5.62	≤13	PASS

LTE Band 38								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	5	37775	2572.5	26.92	18.95	7.97	≤13	PASS
		38000	2595	26.83	18.89	7.94	≤13	PASS
		38225	2617.5	27.00	18.72	8.28	≤13	PASS
	10	37800	2575	27.04	16.67	10.37	≤13	PASS
		38000	2595	27.04	18.90	8.14	≤13	PASS
		38200	2615	27.21	18.68	8.53	≤13	PASS
	15	37825	2577.5	27.14	18.95	8.19	≤13	PASS



		38000	2595	27.05	18.38	8.67	≤13	PASS
		38175	2612.5	27.14	18.08	9.06	≤13	PASS
	20	37850	2580	27.08	17.59	9.49	≤13	PASS
		38000	2595	26.98	17.24	9.74	≤13	PASS
		38150	2610	27.18	18.93	8.25	≤13	PASS
16QAM	5	37775	2572.5	26.86	17.73	9.13	≤13	PASS
		38000	2595	26.82	17.30	9.52	≤13	PASS
		38225	2617.5	27.00	17.55	9.45	≤13	PASS
	10	37800	2575	27.03	18.67	8.36	≤13	PASS
		38000	2595	26.94	17.99	8.95	≤13	PASS
		38200	2615	27.16	17.89	9.27	≤13	PASS
	15	37825	2577.5	26.99	16.76	10.23	≤13	PASS
		38000	2595	26.98	18.15	8.83	≤13	PASS
		38175	2612.5	27.07	17.19	9.88	≤13	PASS
	20	37850	2580	27.00	17.45	9.55	≤13	PASS
		38000	2595	26.97	17.51	9.46	≤13	PASS
		38150	2610	27.03	17.23	9.80	≤13	PASS
64QAM	5	37775	2572.5	26.01	15.85	10.16	≤13	PASS
		38000	2595	26.16	17.95	8.21	≤13	PASS
		38225	2617.5	26.16	16.46	9.70	≤13	PASS
	10	37800	2575	26.17	16.50	9.67	≤13	PASS
		38000	2595	26.23	16.61	9.62	≤13	PASS
		38200	2615	26.35	18.02	8.33	≤13	PASS
	15	37825	2577.5	26.24	16.62	9.62	≤13	PASS
		38000	2595	26.30	16.26	10.04	≤13	PASS
		38175	2612.5	26.31	16.51	9.80	≤13	PASS
	20	37850	2580	26.28	16.93	9.35	≤13	PASS
		38000	2595	26.27	16.44	9.83	≤13	PASS
		38150	2610	26.17	14.97	11.20	≤13	PASS

LTE Band 66								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
QPSK	1.4	131979	1710.7	27.24	22.77	4.47	≤13	PASS
		132322	1745	27.20	22.88	4.32	≤13	PASS



	3	132665	1779.3	27.32	22.94	4.38	≤13	PASS
		131987	1711.5	27.24	22.78	4.46	≤13	PASS
		132322	1745	27.12	22.80	4.32	≤13	PASS
		132657	1778.5	27.38	22.95	4.43	≤13	PASS
	5	131997	1712.5	27.23	22.84	4.39	≤13	PASS
		132322	1745	27.17	22.85	4.32	≤13	PASS
		132647	1777.5	27.41	22.99	4.42	≤13	PASS
	10	132022	1715	27.28	22.81	4.47	≤13	PASS
		132322	1745	27.31	22.83	4.48	≤13	PASS
		132622	1775	27.49	22.91	4.58	≤13	PASS
	15	132047	1717.5	27.52	22.71	4.81	≤13	PASS
		132322	1745	27.46	22.71	4.75	≤13	PASS
		132597	1772.5	27.62	22.83	4.79	≤13	PASS
	20	132072	1720	27.65	22.75	4.90	≤13	PASS
		132322	1745	27.64	22.76	4.88	≤13	PASS
		132572	1770	27.61	22.79	4.82	≤13	PASS
16QAM	1.4	131979	1710.7	27.19	21.76	5.43	≤13	PASS
		132322	1745	27.19	21.94	5.25	≤13	PASS
		132665	1779.3	27.29	21.95	5.34	≤13	PASS
	3	131987	1711.5	27.24	21.81	5.43	≤13	PASS
		132322	1745	27.15	21.82	5.33	≤13	PASS
		132657	1778.5	27.37	21.98	5.39	≤13	PASS
	5	131997	1712.5	27.24	21.82	5.42	≤13	PASS
		132322	1745	27.17	21.83	5.34	≤13	PASS
		132647	1777.5	27.45	22.01	5.44	≤13	PASS
	10	132022	1715	27.25	21.81	5.44	≤13	PASS
		132322	1745	27.28	21.85	5.43	≤13	PASS
		132622	1775	27.47	21.94	5.53	≤13	PASS
	15	132047	1717.5	27.53	21.75	5.78	≤13	PASS
		132322	1745	27.45	21.72	5.73	≤13	PASS
		132597	1772.5	27.62	21.85	5.77	≤13	PASS
	20	132072	1720	27.64	21.74	5.90	≤13	PASS
		132322	1745	27.57	21.72	5.85	≤13	PASS
		132572	1770	27.63	21.80	5.83	≤13	PASS
64QAM	1.4	131979	1710.7	26.90	21.41	5.49	≤13	PASS
		132322	1745	26.78	21.54	5.24	≤13	PASS
		132665	1779.3	26.90	21.59	5.31	≤13	PASS
	3	131987	1711.5	26.81	21.41	5.40	≤13	PASS
		132322	1745	26.71	21.42	5.29	≤13	PASS
		132657	1778.5	27.01	21.60	5.41	≤13	PASS



	5	131997	1712.5	26.88	21.45	5.43	≤13	PASS
		132322	1745	26.79	21.47	5.32	≤13	PASS
		132647	1777.5	27.01	21.60	5.41	≤13	PASS
	10	132022	1715	26.89	21.46	5.43	≤13	PASS
		132322	1745	26.88	21.47	5.41	≤13	PASS
		132622	1775	27.07	21.54	5.53	≤13	PASS
	15	132047	1717.5	27.15	21.38	5.77	≤13	PASS
		132322	1745	27.09	21.37	5.72	≤13	PASS
		132597	1772.5	27.21	21.47	5.74	≤13	PASS
	20	132072	1720	27.32	21.41	5.91	≤13	PASS
		132322	1745	27.20	21.37	5.83	≤13	PASS
		132572	1770	27.29	21.41	5.88	≤13	PASS

Bandwidth	PCC		SCC1		Modulation	Peak-to-Average Power Ratio (PAPR)		
	Channel	Frequency (MHz)	Channel	Frequency (MHz)		Peak (dBm)	Avg (dBm)	PAPR (dB)
CA_7C_10MHz+20MHz_QPSK	21006	2525.6	21150	2540	QPSK	32.91	26.84	6.07
CA_7C_10MHz+20MHz_16QAM	21006	2525.6	21150	2540	16QAM	32.70	25.83	6.87
CA_7C_10MHz+20MHz_64QAM	21006	2525.6	21150	2540	64QAM	31.31	25.23	6.08
CA_7C_20MHz+10MHz_QPSK	21051	2530.1	21195	2544.5	QPSK	32.65	25.84	6.81
CA_7C_20MHz+10MHz_16QAM	21051	2530.1	21195	2544.5	16QAM	32.77	25.87	6.90
CA_7C_20MHz+10MHz_64QAM	21051	2530.1	21195	2544.5	64QAM	31.40	25.24	6.16
CA_7C_15MHz+15MHz_QPSK	21025	2527.5	21175	2542.5	QPSK	33.11	26.85	6.26
CA_7C_15MHz+15MHz_16QAM	21025	2527.5	21175	2542.5	16QAM	32.82	25.86	6.96
CA_7C_15MHz+15MHz_64QAM	21025	2527.5	21175	2542.5	64QAM	31.46	25.24	6.22
CA_7C_15MHz+20MHz_QPSK	21003	2525.3	21174	2542.4	QPSK	33.04	26.87	6.17
CA_7C_15MHz+20MHz_16QAM	21003	2525.3	21174	2542.4	16QAM	32.75	25.86	6.89
CA_7C_15MHz+20MHz_64QAM	21003	2525.3	21174	2542.4	64QAM	31.40	25.23	6.17
CA_7C_20MHz+15MHz_QPSK	21026	2527.6	21197	2544.7	QPSK	33.06	26.87	6.19
CA_7C_20MHz+15MHz_16QAM	21026	2527.6	21197	2544.7	16QAM	32.76	25.87	6.89
CA_7C_20MHz+15MHz_64QAM	21026	2527.6	21197	2544.7	64QAM	31.41	25.26	6.15
CA_7C_20MHz+20MHz_QPSK	21001	2525.1	21199	2544.9	QPSK	33.11	26.86	6.25
CA_7C_20MHz+20MHz_16QAM	21001	2525.1	21199	2544.9	16QAM	32.77	25.85	6.92
CA_7C_20MHz+20MHz_64QAM	21001	2525.1	21199	2544.9	64QAM	31.52	25.25	6.27



NR n66								
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
20M	P1/2 BPSK	344000	1720	28.83	17.08	11.75	≤13	PASS
		349000	1745	28.36	16.62	11.74	≤13	PASS
		354000	1770	27.12	15.32	11.80	≤13	PASS
	QPSK	344000	1720	28.28	16.39	11.89	≤13	PASS
		349000	1745	28.18	15.88	12.30	≤13	PASS
		354000	1770	28.24	16.48	11.76	≤13	PASS
	16QAM	344000	1720	28.11	16.15	11.96	≤13	PASS
		349000	1745	28.02	15.93	12.09	≤13	PASS
		354000	1770	28.00	15.59	12.41	≤13	PASS
	64QAM	344000	1720	27.90	15.80	12.10	≤13	PASS
		349000	1745	27.70	15.48	12.22	≤13	PASS
		354000	1770	27.76	15.84	11.92	≤13	PASS
	256QAM	344000	1720	25.89	14.04	11.85	≤13	PASS
		349000	1745	25.79	13.88	11.91	≤13	PASS
		354000	1770	25.79	13.55	12.24	≤13	PASS

DC_5A-n66A									
Bandwidth (MHz)	Modulation (LTE)	Modulation	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
20M	Band5-10MHz-836.5 MHz-QPSK-1#0	P1/2 BPSK	344000	1720	28.79	17.03	11.76	≤13	PASS
			349000	1745	28.55	16.44	12.11	≤13	PASS
			354000	1770	27.44	15.56	11.88	≤13	PASS
		QPSK	344000	1720	28.71	17.30	11.41	≤13	PASS
			349000	1745	28.57	16.67	11.90	≤13	PASS
			354000	1770	27.41	15.31	12.10	≤13	PASS
		16QAM	344000	1720	28.43	16.59	11.84	≤13	PASS
			349000	1745	28.04	15.59	12.45	≤13	PASS
			354000	1770	27.05	14.46	12.59	≤13	PASS
		64QAM	344000	1720	28.04	15.62	12.42	≤13	PASS
			349000	1745	27.96	15.46	12.50	≤13	PASS
			354000	1770	26.82	14.63	12.19	≤13	PASS
		256QAM	344000	1720	26.35	14.08	12.27	≤13	PASS
			349000	1745	25.93	13.92	12.01	≤13	PASS
			354000	1770	24.88	13.03	11.85	≤13	PASS



6.5 Frequency Stability

LTE Band 4								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	4.64	3.23	15.09	0.00268	0.00186	0.00871	PASS
Extreme (50℃)		17.86	13.73	13.61	0.01031	0.00793	0.00786	PASS
Extreme (40℃)		3.96	2.52	15.58	0.00228	0.00145	0.00900	PASS
Extreme (30℃)		7.00	13.06	16.19	0.00404	0.00754	0.00934	PASS
Extreme (20℃)		7.04	17.49	13.02	0.00406	0.01010	0.00752	PASS
Extreme (10℃)		15.88	17.13	1.87	0.00916	0.00989	0.00108	PASS
Extreme (0℃)		4.44	11.69	14.92	0.00256	0.00675	0.00861	PASS
Extreme (-10℃)		16.64	7.44	2.92	0.00960	0.00429	0.00169	PASS
Extreme (-20℃)		1.21	4.09	14.52	0.00070	0.00236	0.00838	PASS
Extreme (-30℃)		2.48	14.66	5.58	0.00143	0.00846	0.00322	PASS
25℃	LV	15.94	17.46	5.89	0.00920	0.01008	0.00340	PASS
	HV	1.20	15.20	9.48	0.00069	0.00877	0.00547	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	5.19	2.08	3.32	0.00299	0.00120	0.00192	PASS
Extreme (50℃)		9.83	3.39	14.61	0.00567	0.00196	0.00843	PASS
Extreme (40℃)		4.55	7.56	8.41	0.00263	0.00436	0.00485	PASS
Extreme (30℃)		17.33	17.25	16.00	0.01000	0.00996	0.00923	PASS
Extreme (20℃)		6.41	13.31	16.36	0.00370	0.00768	0.00944	PASS
Extreme (10℃)		6.19	3.55	12.94	0.00357	0.00205	0.00747	PASS
Extreme (0℃)		11.76	6.05	17.17	0.00679	0.00349	0.00991	PASS
Extreme (-10℃)		14.22	14.74	10.98	0.00821	0.00851	0.00634	PASS
Extreme (-20℃)		9.62	4.78	2.28	0.00555	0.00276	0.00131	PASS
Extreme (-30℃)		6.60	16.80	17.45	0.00381	0.00970	0.01007	PASS
25℃	LV	3.06	6.01	6.46	0.00177	0.00347	0.00373	PASS
	HV	9.81	6.71	11.17	0.00566	0.00387	0.00645	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	16.78	4.43	12.53	0.00968	0.00256	0.00723	PASS



Extreme (50℃)		15.90	17.76	16.49	0.00918	0.01025	0.00952	PASS
Extreme (40℃)		4.09	12.13	11.20	0.00236	0.00700	0.00647	PASS
Extreme (30℃)		16.15	8.18	14.87	0.00932	0.00472	0.00858	PASS
Extreme (20℃)		3.22	12.89	16.76	0.00186	0.00744	0.00968	PASS
Extreme (10℃)		14.91	4.85	6.47	0.00861	0.00280	0.00374	PASS
Extreme (0℃)		2.02	10.83	17.49	0.00116	0.00625	0.01009	PASS
Extreme (-10℃)		13.64	10.25	10.60	0.00788	0.00592	0.00612	PASS
Extreme (-20℃)		2.24	7.00	4.29	0.00129	0.00404	0.00248	PASS
Extreme (-30℃)		11.44	7.32	10.19	0.00660	0.00423	0.00588	PASS
25℃	LV	14.28	9.20	5.43	0.00824	0.00531	0.00313	PASS
	HV	15.79	16.20	16.86	0.00911	0.00935	0.00973	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	9.46	17.58	15.86	0.00546	0.01015	0.00916	PASS
Extreme (50℃)		2.02	5.24	8.36	0.00117	0.00303	0.00482	PASS
Extreme (40℃)		7.41	2.83	13.28	0.00427	0.00163	0.00767	PASS
Extreme (30℃)		15.79	1.09	1.75	0.00911	0.00063	0.00101	PASS
Extreme (20℃)		5.27	6.47	8.54	0.00304	0.00374	0.00493	PASS
Extreme (10℃)		10.97	11.56	7.36	0.00633	0.00667	0.00425	PASS
Extreme (0℃)		2.10	12.37	13.61	0.00121	0.00714	0.00786	PASS
Extreme (-10℃)		2.28	9.95	9.59	0.00132	0.00574	0.00554	PASS
Extreme (-20℃)		4.52	17.24	16.66	0.00261	0.00995	0.00962	PASS
Extreme (-30℃)		7.88	11.96	17.79	0.00455	0.00690	0.01027	PASS
25℃	LV	9.94	11.70	8.20	0.00574	0.00675	0.00473	PASS
	HV	9.21	17.29	1.46	0.00531	0.00998	0.00084	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	5.55	16.43	14.18	0.00321	0.00948	0.00819	PASS
Extreme (50℃)		16.16	9.96	7.35	0.00933	0.00575	0.00424	PASS
Extreme (40℃)		5.99	10.14	6.88	0.00346	0.00585	0.00397	PASS
Extreme (30℃)		6.02	4.44	5.33	0.00348	0.00256	0.00308	PASS
Extreme (20℃)		4.94	2.82	11.20	0.00285	0.00163	0.00647	PASS
Extreme (10℃)		6.55	6.87	12.70	0.00378	0.00396	0.00733	PASS
Extreme (0℃)		16.23	8.63	6.67	0.00937	0.00498	0.00385	PASS
Extreme (-10℃)		13.46	14.69	12.83	0.00777	0.00848	0.00741	PASS
Extreme (-20℃)		12.28	7.42	1.27	0.00709	0.00428	0.00073	PASS
Extreme (-30℃)		5.06	16.44	10.19	0.00292	0.00949	0.00588	PASS



25℃	LV	4.22	4.73	2.64	0.00244	0.00273	0.00152	PASS
	HV	7.42	16.95	13.65	0.00428	0.00979	0.00788	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	13.08	14.38	1.69	0.00755	0.00830	0.00098	PASS
Extreme (50℃)		8.72	4.27	7.39	0.00503	0.00247	0.00427	PASS
Extreme (40℃)		1.69	3.45	14.06	0.00097	0.00199	0.00811	PASS
Extreme (30℃)		10.35	5.78	16.15	0.00598	0.00333	0.00932	PASS
Extreme (20℃)		12.77	11.07	12.28	0.00737	0.00639	0.00709	PASS
Extreme (10℃)		3.00	16.89	15.98	0.00173	0.00975	0.00922	PASS
Extreme (0℃)		9.79	3.79	4.83	0.00565	0.00219	0.00279	PASS
Extreme (-10℃)		5.08	10.10	7.36	0.00293	0.00583	0.00425	PASS
Extreme (-20℃)		15.31	7.84	13.76	0.00883	0.00452	0.00794	PASS
Extreme (-30℃)		17.50	16.75	12.58	0.01010	0.00967	0.00726	PASS
25℃	LV	13.67	7.23	12.80	0.00789	0.00417	0.00739	PASS
	HV	7.82	14.69	1.88	0.00451	0.00848	0.00108	PASS

LTE Band 7								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	11.34	11.45	5.21	0.00447	0.00452	0.00205	PASS
Extreme (50℃)		16.58	2.92	5.50	0.00654	0.00115	0.00217	PASS
Extreme (40℃)		6.61	11.06	7.41	0.00261	0.00436	0.00292	PASS
Extreme (30℃)		15.91	13.77	9.43	0.00627	0.00543	0.00372	PASS
Extreme (20℃)		10.44	14.08	4.80	0.00412	0.00555	0.00189	PASS
Extreme (10℃)		9.81	10.31	16.67	0.00387	0.00407	0.00658	PASS
Extreme (0℃)		7.35	12.28	5.55	0.00290	0.00485	0.00219	PASS
Extreme (-10℃)		2.43	11.72	2.90	0.00096	0.00462	0.00114	PASS
Extreme (-20℃)		3.02	3.52	11.15	0.00119	0.00139	0.00440	PASS
Extreme (-30℃)		13.49	15.71	13.13	0.00532	0.00620	0.00518	PASS
25℃	LV	1.73	11.76	17.13	0.00068	0.00464	0.00676	PASS
	HV	15.08	10.80	7.91	0.00595	0.00426	0.00312	PASS



Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	8.20	10.49	1.16	0.00323	0.00414	0.00046	PASS
Extreme (50℃)		2.06	12.45	4.46	0.00081	0.00491	0.00176	PASS
Extreme (40℃)		17.23	7.88	1.74	0.00680	0.00311	0.00069	PASS
Extreme (30℃)		9.07	15.26	3.99	0.00358	0.00602	0.00157	PASS
Extreme (20℃)		11.81	11.79	13.44	0.00466	0.00465	0.00530	PASS
Extreme (10℃)		14.95	13.56	8.40	0.00590	0.00535	0.00332	PASS
Extreme (0℃)		13.70	4.82	2.59	0.00540	0.00190	0.00102	PASS
Extreme (-10℃)		12.67	7.14	4.92	0.00500	0.00282	0.00194	PASS
Extreme (-20℃)		3.40	11.07	7.73	0.00134	0.00437	0.00305	PASS
Extreme (-30℃)		8.06	1.04	1.49	0.00318	0.00041	0.00059	PASS
25℃	LV	2.15	5.44	3.01	0.00085	0.00215	0.00119	PASS
	HV	13.08	14.49	9.97	0.00516	0.00571	0.00393	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	1.99	9.59	15.88	0.00078	0.00378	0.00626	PASS
Extreme (50℃)		3.44	16.79	1.25	0.00136	0.00662	0.00049	PASS
Extreme (40℃)		10.56	1.21	3.73	0.00416	0.00048	0.00147	PASS
Extreme (30℃)		8.26	3.31	14.07	0.00326	0.00130	0.00555	PASS
Extreme (20℃)		8.46	11.30	1.64	0.00334	0.00446	0.00065	PASS
Extreme (10℃)		3.82	3.29	2.77	0.00151	0.00130	0.00109	PASS
Extreme (0℃)		14.18	5.11	10.08	0.00560	0.00201	0.00398	PASS
Extreme (-10℃)		17.57	14.16	5.76	0.00693	0.00559	0.00227	PASS
Extreme (-20℃)		11.02	1.25	3.43	0.00435	0.00049	0.00135	PASS
Extreme (-30℃)		8.35	17.72	15.00	0.00329	0.00699	0.00592	PASS
25℃	LV	2.41	11.36	5.70	0.00095	0.00448	0.00225	PASS
	HV	6.31	16.12	10.97	0.00249	0.00636	0.00433	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	10.59	12.92	12.37	0.00418	0.00510	0.00488	PASS
Extreme (50℃)		8.67	8.52	14.20	0.00342	0.00336	0.00560	PASS
Extreme (40℃)		12.89	11.18	17.88	0.00509	0.00441	0.00705	PASS
Extreme (30℃)		14.04	14.48	6.68	0.00554	0.00571	0.00264	PASS
Extreme (20℃)		14.14	15.23	1.70	0.00558	0.00601	0.00067	PASS



Extreme (10℃)		4.97	17.08	5.02	0.00196	0.00674	0.00198	PASS
Extreme (0℃)		11.06	1.81	14.64	0.00436	0.00071	0.00578	PASS
Extreme (-10℃)		8.03	2.94	6.29	0.00317	0.00116	0.00248	PASS
Extreme (-20℃)		8.93	7.68	15.10	0.00352	0.00303	0.00596	PASS
Extreme (-30℃)		11.13	14.65	11.29	0.00439	0.00578	0.00445	PASS
25℃	LV	15.50	4.75	1.54	0.00612	0.00187	0.00061	PASS
	HV	6.89	11.74	11.64	0.00272	0.00463	0.00459	PASS

LTE Band 12								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	12.59	13.64	4.16	0.01780	0.01927	0.00588	PASS
Extreme (50℃)		15.52	16.56	12.86	0.02193	0.02340	0.01818	PASS
Extreme (40℃)		5.06	10.67	1.61	0.00715	0.01509	0.00228	PASS
Extreme (30℃)		8.86	13.03	7.86	0.01253	0.01842	0.01111	PASS
Extreme (20℃)		2.60	3.98	12.95	0.00368	0.00562	0.01831	PASS
Extreme (10℃)		9.09	17.90	9.83	0.01284	0.02531	0.01389	PASS
Extreme (0℃)		8.98	12.18	14.40	0.01269	0.01722	0.02035	PASS
Extreme (-10℃)		11.33	4.36	5.57	0.01601	0.00617	0.00788	PASS
Extreme (-20℃)		5.20	9.19	17.99	0.00735	0.01299	0.02542	PASS
Extreme (-30℃)		3.70	11.97	8.46	0.00524	0.01692	0.01195	PASS
25℃	LV	11.12	7.66	17.50	0.01572	0.01082	0.02474	PASS
	HV	17.14	12.16	15.33	0.02422	0.01719	0.02167	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	15.13	2.15	2.53	0.02138	0.00304	0.00358	PASS
Extreme (50℃)		5.19	4.19	9.25	0.00733	0.00592	0.01308	PASS
Extreme (40℃)		9.85	6.88	9.45	0.01393	0.00973	0.01335	PASS
Extreme (30℃)		10.71	4.50	12.26	0.01514	0.00636	0.01733	PASS
Extreme (20℃)		15.88	5.59	9.67	0.02244	0.00790	0.01367	PASS
Extreme (10℃)		9.38	17.39	15.05	0.01326	0.02458	0.02127	PASS
Extreme (0℃)		8.29	17.98	6.29	0.01172	0.02542	0.00889	PASS
Extreme (-10℃)		17.88	1.92	7.22	0.02527	0.00271	0.01020	PASS
Extreme (-20℃)		5.43	13.72	12.08	0.00767	0.01939	0.01708	PASS
Extreme (-30℃)		2.27	5.66	12.28	0.00321	0.00800	0.01735	PASS
25℃	LV	8.73	8.43	5.23	0.01234	0.01192	0.00740	PASS



	HV	2.55	6.50	14.92	0.00360	0.00919	0.02109	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	7.81	8.68	8.23	0.01104	0.01227	0.01163	PASS
Extreme (50℃)		10.83	12.23	2.69	0.01530	0.01729	0.00380	PASS
Extreme (40℃)		13.05	7.21	11.53	0.01844	0.01019	0.01629	PASS
Extreme (30℃)		10.30	17.73	17.18	0.01456	0.02506	0.02429	PASS
Extreme (20℃)		16.24	5.40	17.65	0.02296	0.00763	0.02495	PASS
Extreme (10℃)		6.35	6.40	6.70	0.00897	0.00905	0.00947	PASS
Extreme (0℃)		11.31	3.69	15.17	0.01598	0.00521	0.02144	PASS
Extreme (-10℃)		5.34	3.50	11.07	0.00755	0.00495	0.01564	PASS
Extreme (-20℃)		16.04	8.51	7.62	0.02268	0.01203	0.01077	PASS
Extreme (-30℃)		12.42	1.87	8.64	0.01755	0.00265	0.01221	PASS
25℃	LV	6.31	10.67	17.05	0.00892	0.01508	0.02410	PASS
	HV	13.08	7.97	4.76	0.01849	0.01126	0.00673	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	4.53	11.68	7.36	0.00640	0.01650	0.01040	PASS
Extreme (50℃)		7.66	13.93	15.86	0.01083	0.01969	0.02242	PASS
Extreme (40℃)		12.69	1.67	17.65	0.01794	0.00236	0.02494	PASS
Extreme (30℃)		7.89	13.61	1.99	0.01116	0.01924	0.00281	PASS
Extreme (20℃)		15.19	10.48	17.91	0.02147	0.01481	0.02531	PASS
Extreme (10℃)		13.89	6.79	15.48	0.01964	0.00960	0.02187	PASS
Extreme (0℃)		17.88	15.24	1.16	0.02527	0.02155	0.00164	PASS
Extreme (-10℃)		7.87	6.51	14.71	0.01112	0.00920	0.02079	PASS
Extreme (-20℃)		15.29	16.68	7.71	0.02161	0.02357	0.01090	PASS
Extreme (-30℃)		17.56	7.97	16.41	0.02482	0.01126	0.02320	PASS
25℃	LV	7.00	3.12	3.46	0.00989	0.00440	0.00489	PASS
	HV	8.59	9.85	2.45	0.01214	0.01392	0.00346	PASS



LTE Band 38								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	6.66	12.00	5.90	0.00257	0.00462	0.00228	PASS
Extreme (50℃)		12.48	13.72	17.36	0.00481	0.00529	0.00669	PASS
Extreme (40℃)		16.72	2.63	3.93	0.00644	0.00102	0.00152	PASS
Extreme (30℃)		10.97	4.40	2.83	0.00423	0.00170	0.00109	PASS
Extreme (20℃)		1.36	15.39	12.28	0.00052	0.00593	0.00473	PASS
Extreme (10℃)		3.95	9.91	16.46	0.00152	0.00382	0.00634	PASS
Extreme (0℃)		1.74	5.02	14.34	0.00067	0.00194	0.00553	PASS
Extreme (-10℃)		12.86	15.95	16.67	0.00496	0.00615	0.00642	PASS
Extreme (-20℃)		2.86	3.35	2.33	0.00110	0.00129	0.00090	PASS
Extreme (-30℃)		12.31	8.51	9.85	0.00474	0.00328	0.00380	PASS
25℃	LV	13.32	17.10	4.86	0.00513	0.00659	0.00187	PASS
	HV	1.86	17.67	11.28	0.00072	0.00681	0.00435	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	10.63	1.09	11.90	0.00409	0.00042	0.00459	PASS
Extreme (50℃)		11.12	7.33	17.63	0.00428	0.00282	0.00679	PASS
Extreme (40℃)		17.28	9.98	16.78	0.00666	0.00385	0.00647	PASS
Extreme (30℃)		4.03	15.31	16.57	0.00155	0.00590	0.00639	PASS
Extreme (20℃)		6.35	9.72	9.00	0.00245	0.00374	0.00347	PASS
Extreme (10℃)		15.62	3.52	3.49	0.00602	0.00136	0.00134	PASS
Extreme (0℃)		11.69	14.68	9.21	0.00450	0.00566	0.00355	PASS
Extreme (-10℃)		5.80	14.81	15.61	0.00224	0.00571	0.00602	PASS
Extreme (-20℃)		15.30	5.61	7.05	0.00590	0.00216	0.00272	PASS
Extreme (-30℃)		8.62	7.22	7.21	0.00332	0.00278	0.00278	PASS
25℃	LV	15.88	5.47	12.20	0.00612	0.00211	0.00470	PASS
	HV	17.38	5.66	12.58	0.00670	0.00218	0.00485	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	8.00	10.00	8.00	0.00308	0.00385	0.00308	PASS
Extreme (50℃)		11.00	1.00	3.00	0.00424	0.00039	0.00116	PASS
Extreme (40℃)		10.00	6.00	4.00	0.00385	0.00231	0.00154	PASS



Extreme (30℃)		12.00	4.00	8.00	0.00462	0.00154	0.00308	PASS
Extreme (20℃)		4.00	5.00	8.00	0.00154	0.00193	0.00308	PASS
Extreme (10℃)		10.00	5.00	8.00	0.00385	0.00193	0.00308	PASS
Extreme (0℃)		6.00	16.00	9.00	0.00231	0.00617	0.00347	PASS
Extreme (-10℃)		13.00	3.00	16.00	0.00501	0.00116	0.00617	PASS
Extreme (-20℃)		11.00	5.00	5.00	0.00424	0.00193	0.00193	PASS
Extreme (-30℃)		13.00	6.00	8.00	0.00501	0.00231	0.00308	PASS
25℃	LV	17.00	15.00	15.00	0.00655	0.00578	0.00578	PASS
	HV	6.00	13.00	1.00	0.00231	0.00501	0.00039	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	11.00	1.00	12.00	0.00424	0.00039	0.00462	PASS
Extreme (50℃)		3.00	4.00	7.00	0.00116	0.00154	0.00270	PASS
Extreme (40℃)		6.00	3.00	11.00	0.00231	0.00116	0.00424	PASS
Extreme (30℃)		1.00	10.00	12.00	0.00039	0.00385	0.00462	PASS
Extreme (20℃)		12.00	3.00	2.00	0.00462	0.00116	0.00077	PASS
Extreme (10℃)		15.00	15.00	8.00	0.00578	0.00578	0.00308	PASS
Extreme (0℃)		8.00	8.00	7.00	0.00308	0.00308	0.00270	PASS
Extreme (-10℃)		12.00	12.00	3.00	0.00462	0.00462	0.00116	PASS
Extreme (-20℃)		10.00	5.00	13.00	0.00385	0.00193	0.00501	PASS
Extreme (-30℃)		12.00	9.00	14.00	0.00462	0.00347	0.00539	PASS
25℃	LV	5.00	12.00	14.00	0.00193	0.00462	0.00539	PASS
	HV	15.00	1.00	7.00	0.00578	0.00039	0.00270	PASS

LTE Band 66								
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	1.4MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	3.00	6.00	15.00	0.00172	0.00344	0.00860	PASS
Extreme (50℃)		8.00	1.00	4.00	0.00458	0.00057	0.00229	PASS
Extreme (40℃)		8.00	9.00	11.00	0.00458	0.00516	0.00630	PASS
Extreme (30℃)		11.00	8.00	5.00	0.00630	0.00458	0.00287	PASS
Extreme (20℃)		16.00	3.00	7.00	0.00917	0.00172	0.00401	PASS
Extreme (10℃)		2.00	8.00	4.00	0.00115	0.00458	0.00229	PASS
Extreme (0℃)		1.00	3.00	2.00	0.00057	0.00172	0.00115	PASS
Extreme (-10℃)		8.00	5.00	1.00	0.00458	0.00287	0.00057	PASS
Extreme (-20℃)		7.00	15.00	2.00	0.00401	0.00860	0.00115	PASS
Extreme (-30℃)		16.00	16.00	8.00	0.00917	0.00917	0.00458	PASS



25℃	LV	1.00	17.00	6.00	0.00057	0.00974	0.00344	PASS
	HV	16.00	12.00	1.00	0.00917	0.00688	0.00057	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	3MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	10.00	11.00	15.00	0.00573	0.00630	0.00860	PASS
Extreme (50℃)		10.00	13.00	10.00	0.00573	0.00745	0.00573	PASS
Extreme (40℃)		10.00	8.00	8.00	0.00573	0.00458	0.00458	PASS
Extreme (30℃)		11.00	13.00	8.00	0.00630	0.00745	0.00458	PASS
Extreme (20℃)		9.00	10.00	11.00	0.00516	0.00573	0.00630	PASS
Extreme (10℃)		9.00	11.00	8.00	0.00516	0.00630	0.00458	PASS
Extreme (0℃)		16.00	17.00	5.00	0.00917	0.00974	0.00287	PASS
Extreme (-10℃)		15.00	1.00	17.00	0.00860	0.00057	0.00974	PASS
Extreme (-20℃)		5.00	6.00	17.00	0.00287	0.00344	0.00974	PASS
Extreme (-30℃)		11.00	15.00	6.00	0.00630	0.00860	0.00344	PASS
25℃	LV	10.00	10.00	5.00	0.00573	0.00573	0.00287	PASS
	HV	11.00	2.00	17.00	0.00630	0.00115	0.00974	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	5MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	16.00	12.00	13.00	0.00917	0.00688	0.00745	PASS
Extreme (50℃)		13.00	1.00	2.00	0.00745	0.00057	0.00115	PASS
Extreme (40℃)		6.00	11.00	8.00	0.00344	0.00630	0.00458	PASS
Extreme (30℃)		8.00	17.00	7.00	0.00458	0.00974	0.00401	PASS
Extreme (20℃)		12.00	16.00	7.00	0.00688	0.00917	0.00401	PASS
Extreme (10℃)		15.00	9.00	1.00	0.00860	0.00516	0.00057	PASS
Extreme (0℃)		8.00	4.00	16.00	0.00458	0.00229	0.00917	PASS
Extreme (-10℃)		16.00	9.00	15.00	0.00917	0.00516	0.00860	PASS
Extreme (-20℃)		9.00	2.00	2.00	0.00516	0.00115	0.00115	PASS
Extreme (-30℃)		7.00	17.00	9.00	0.00401	0.00974	0.00516	PASS
25℃	LV	17.00	8.00	1.00	0.00974	0.00458	0.00057	PASS
	HV	2.00	17.00	6.00	0.00115	0.00974	0.00344	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	10MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	15.00	17.00	3.00	0.00860	0.00974	0.00172	PASS
Extreme (50℃)		9.00	11.00	10.00	0.00516	0.00630	0.00573	PASS
Extreme (40℃)		8.00	13.00	12.00	0.00458	0.00745	0.00688	PASS



Extreme (30℃)		14.00	3.00	15.00	0.00802	0.00172	0.00860	PASS
Extreme (20℃)		14.00	2.00	6.00	0.00802	0.00115	0.00344	PASS
Extreme (10℃)		5.00	5.00	7.00	0.00287	0.00287	0.00401	PASS
Extreme (0℃)		2.00	12.00	11.00	0.00115	0.00688	0.00630	PASS
Extreme (-10℃)		3.00	8.00	9.00	0.00172	0.00458	0.00516	PASS
Extreme (-20℃)		8.00	14.00	13.00	0.00458	0.00802	0.00745	PASS
Extreme (-30℃)		8.00	15.00	9.00	0.00458	0.00860	0.00516	PASS
25℃	LV	17.00	13.00	1.00	0.00974	0.00745	0.00057	PASS
	HV	16.00	6.00	12.00	0.00917	0.00344	0.00688	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	15MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	17.00	7.00	17.00	0.00974	0.00401	0.00974	PASS
Extreme (50℃)		3.00	11.00	2.00	0.00172	0.00630	0.00115	PASS
Extreme (40℃)		13.00	11.00	2.00	0.00745	0.00630	0.00115	PASS
Extreme (30℃)		16.00	13.00	4.00	0.00917	0.00745	0.00229	PASS
Extreme (20℃)		12.00	9.00	12.00	0.00688	0.00516	0.00688	PASS
Extreme (10℃)		5.00	2.00	17.00	0.00287	0.00115	0.00974	PASS
Extreme (0℃)		2.00	2.00	6.00	0.00115	0.00115	0.00344	PASS
Extreme (-10℃)		1.00	10.00	3.00	0.00057	0.00573	0.00172	PASS
Extreme (-20℃)		16.00	16.00	13.00	0.00917	0.00917	0.00745	PASS
Extreme (-30℃)		17.00	11.00	8.00	0.00974	0.00630	0.00458	PASS
25℃	LV	17.00	1.00	16.00	0.00974	0.00057	0.00917	PASS
	HV	12.00	6.00	17.00	0.00688	0.00344	0.00974	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
BANDWIDTH	20MHz							
Temperature	Voltage	64QAM	16QAM	QPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	3.00	6.00	16.00	0.00172	0.00344	0.00917	PASS
Extreme (50℃)		13.00	5.00	10.00	0.00745	0.00287	0.00573	PASS
Extreme (40℃)		11.00	12.00	10.00	0.00630	0.00688	0.00573	PASS
Extreme (30℃)		13.00	3.00	2.00	0.00745	0.00172	0.00115	PASS
Extreme (20℃)		8.00	7.00	5.00	0.00458	0.00401	0.00287	PASS
Extreme (10℃)		16.00	13.00	15.00	0.00917	0.00745	0.00860	PASS
Extreme (0℃)		7.00	1.00	1.00	0.00401	0.00057	0.00057	PASS
Extreme (-10℃)		8.00	11.00	13.00	0.00458	0.00630	0.00745	PASS
Extreme (-20℃)		1.00	12.00	6.00	0.00057	0.00688	0.00344	PASS
Extreme (-30℃)		16.00	13.00	13.00	0.00917	0.00745	0.00745	PASS
25℃	LV	3.00	12.00	6.00	0.00172	0.00688	0.00344	PASS
	HV	3.00	5.00	17.00	0.00172	0.00287	0.00974	PASS



CA_7C_QPSK		20MHz+10MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	17.07	0.00908	3.78	0.00201	PASS
Extreme (50℃)		15.11	0.00804	4.57	0.00243	PASS
Extreme (40℃)		4.90	0.00261	15.83	0.00842	PASS
Extreme (30℃)		17.38	0.00925	15.44	0.00821	PASS
Extreme (20℃)		8.89	0.00473	4.81	0.00256	PASS
Extreme (10℃)		6.80	0.00362	3.02	0.00161	PASS
Extreme (0℃)		12.90	0.00686	5.75	0.00306	PASS
Extreme (-10℃)		2.70	0.00144	2.16	0.00115	PASS
Extreme (-20℃)		2.93	0.00156	15.81	0.00841	PASS
Extreme (-30℃)		1.49	0.00079	4.71	0.00251	PASS
25℃	LV	16.46	0.00876	12.48	0.00664	PASS
	HV	13.52	0.00719	3.97	0.00211	PASS
CA_7C_16QAM		20MHz+10MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	16.28	0.00866	12.95	0.00689	PASS
Extreme (50℃)		17.27	0.00918	2.61	0.00139	PASS
Extreme (40℃)		9.81	0.00522	10.11	0.00538	PASS
Extreme (30℃)		9.28	0.00494	7.75	0.00412	PASS
Extreme (20℃)		1.54	0.00082	12.41	0.00660	PASS
Extreme (10℃)		10.50	0.00558	5.18	0.00276	PASS
Extreme (0℃)		16.24	0.00864	16.41	0.00873	PASS
Extreme (-10℃)		10.03	0.00533	14.81	0.00788	PASS
Extreme (-20℃)		11.00	0.00585	15.39	0.00819	PASS
Extreme (-30℃)		9.24	0.00491	10.70	0.00569	PASS
25℃	LV	3.50	0.00186	10.93	0.00581	PASS
	HV	2.09	0.00111	1.18	0.00063	PASS
CA_7C_64QAM		20MHz+10MHz (Bandwidth)		20MHz+20MHz (Bandwidth)		Verdict
Condition		Delta (Hz)	Frequency Stability (ppm)	Delta (Hz)	Frequency Stability (ppm)	
Temperature	Voltage					
Normal (25℃)	Normal	15.54	0.00826	6.55	0.00348	PASS
Extreme (50℃)		6.85	0.00364	14.25	0.00758	PASS
Extreme (40℃)		5.52	0.00294	16.15	0.00859	PASS



Extreme (30℃)		7.53	0.00400	8.02	0.00427	PASS
Extreme (20℃)		7.92	0.00421	16.25	0.00864	PASS
Extreme (10℃)		17.47	0.00929	11.89	0.00633	PASS
Extreme (0℃)		13.61	0.00724	1.61	0.00086	PASS
Extreme (-10℃)		4.98	0.00265	13.53	0.00720	PASS
Extreme (-20℃)		4.56	0.00242	14.90	0.00792	PASS
Extreme (-30℃)		1.15	0.00061	16.61	0.00884	PASS
25℃	LV	2.32	0.00124	15.42	0.00820	PASS
	HV	15.42	0.00820	1.38	0.00073	PASS

NR n66												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	5MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	7.36	17.11	7.75	7.36	13.11	0.00391	0.00910	0.00412	0.00391	0.00697	
Extreme (50℃)		17.36	12.81	15.17	7.36	17.81	0.00924	0.00681	0.00807	0.00392	0.00947	PASS
Extreme (40℃)		12.51	2.94	14.95	3.51	12.94	0.00665	0.00157	0.00795	0.00186	0.00689	PASS
Extreme (30℃)		10.55	1.32	3.95	6.55	1.32	0.00561	0.00070	0.00210	0.00348	0.00070	PASS
Extreme (20℃)		16.31	8.39	9.65	15.31	12.39	0.00868	0.00446	0.00513	0.00815	0.00659	PASS
Extreme (10℃)		7.70	14.31	3.53	1.70	7.31	0.00410	0.00761	0.00188	0.00090	0.00389	PASS
Extreme (0℃)		15.16	16.03	17.07	8.16	5.03	0.00807	0.00853	0.00908	0.00434	0.00268	PASS
Extreme (-10℃)		7.01	11.38	16.31	1.01	17.38	0.00373	0.00605	0.00868	0.00054	0.00924	PASS
Extreme (-20℃)		2.58	5.94	2.61	11.58	2.94	0.00137	0.00316	0.00139	0.00616	0.00156	PASS
Extreme (-30℃)		15.22	3.19	5.11	6.22	9.19	0.00810	0.00170	0.00272	0.00331	0.00489	PASS
25℃	LV	7.66	7.55	11.65	15.66	4.55	0.00407	0.00402	0.00620	0.00833	0.00242	PASS
	HV	13.38	5.58	5.64	7.38	8.58	0.00712	0.00297	0.00300	0.00393	0.00456	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	4.77	12.79	4.41	2.77	10.79	0.00254	0.00680	0.00235	0.00147	0.00574	
Extreme (50℃)		1.21	3.36	14.94	11.21	8.36	0.00065	0.00179	0.00795	0.00596	0.00444	PASS
Extreme (40℃)		7.96	16.86	6.49	8.96	12.86	0.00424	0.00897	0.00345	0.00477	0.00684	PASS
Extreme (30℃)		6.20	16.75	4.32	7.20	4.75	0.00330	0.00891	0.00230	0.00383	0.00253	PASS
Extreme (20℃)		1.52	5.42	7.90	9.52	6.42	0.00081	0.00288	0.00420	0.00506	0.00342	PASS
Extreme (10℃)		3.24	9.79	14.56	15.24	7.79	0.00172	0.00521	0.00774	0.00810	0.00414	PASS
Extreme (0℃)		1.89	10.77	4.42	9.89	4.77	0.00100	0.00573	0.00235	0.00526	0.00253	PASS
Extreme (-10℃)		9.82	10.98	2.36	16.82	2.98	0.00523	0.00584	0.00125	0.00895	0.00158	PASS
Extreme (-20℃)		15.39	15.08	3.23	7.39	1.08	0.00819	0.00802	0.00172	0.00393	0.00058	PASS



Extreme (-30℃)		15.85	17.13	14.21	9.85	17.13	0.00843	0.00911	0.00756	0.00524	0.00911	PASS
25℃	LV	4.62	12.26	8.77	3.62	13.26	0.00246	0.00652	0.00466	0.00192	0.00705	PASS
	HV	7.34	2.50	10.11	15.34	4.50	0.00390	0.00133	0.00538	0.00816	0.00239	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	15MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25℃)	Normal	16.52	16.07	5.78	9.52	17.07	0.00879	0.00855	0.00307	0.00506	0.00908	PASS
Extreme (50℃)		3.13	17.95	7.01	7.13	16.95	0.00166	0.00955	0.00373	0.00379	0.00901	PASS
Extreme (40℃)		7.27	14.70	15.81	16.27	11.70	0.00386	0.00782	0.00841	0.00865	0.00622	PASS
Extreme (30℃)		13.35	4.07	17.81	2.35	12.07	0.00710	0.00217	0.00947	0.00125	0.00642	PASS
Extreme (20℃)		12.88	7.16	16.42	7.88	15.16	0.00685	0.00381	0.00874	0.00419	0.00806	PASS
Extreme (10℃)		16.02	3.14	6.79	8.02	17.14	0.00852	0.00167	0.00361	0.00427	0.00912	PASS
Extreme (0℃)		14.55	15.83	13.14	3.55	11.83	0.00774	0.00842	0.00699	0.00189	0.00629	PASS
Extreme (-10℃)		4.64	14.25	11.94	6.64	12.25	0.00247	0.00758	0.00635	0.00353	0.00652	PASS
Extreme (-20℃)		12.78	7.96	5.08	15.78	1.96	0.00680	0.00423	0.00270	0.00840	0.00104	PASS
Extreme (-30℃)		4.28	5.74	8.36	12.28	8.74	0.00227	0.00305	0.00445	0.00653	0.00465	PASS
25℃	LV	8.81	17.15	9.22	5.81	14.15	0.00469	0.00912	0.00490	0.00309	0.00752	PASS
	HV	5.32	1.73	10.85	4.32	8.73	0.00283	0.00092	0.00577	0.00230	0.00464	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability	Stability	Stability	Stability	Stability	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	
Normal (25℃)	Normal	5.93	8.02	6.38	12.93	17.02	0.00316	0.00427	0.00340	0.00688	0.00906	PASS
Extreme (50℃)		8.13	17.47	3.68	11.13	4.47	0.00433	0.00929	0.00196	0.00592	0.00238	PASS
Extreme (40℃)		6.83	4.77	15.41	16.83	10.77	0.00363	0.00254	0.00820	0.00895	0.00573	PASS
Extreme (30℃)		17.33	6.63	7.22	4.33	2.63	0.00922	0.00353	0.00384	0.00230	0.00140	PASS
Extreme (20℃)		6.03	9.69	8.05	3.03	6.69	0.00321	0.00516	0.00428	0.00161	0.00356	PASS
Extreme (10℃)		7.36	1.80	8.65	3.36	16.80	0.00391	0.00096	0.00460	0.00179	0.00894	PASS
Extreme (0℃)		9.79	11.24	5.76	1.79	3.24	0.00521	0.00598	0.00307	0.00095	0.00173	PASS
Extreme (-10℃)		12.73	7.58	14.13	6.73	4.58	0.00677	0.00403	0.00752	0.00358	0.00244	PASS
Extreme (-20℃)		16.91	11.07	14.81	5.91	11.07	0.00900	0.00589	0.00788	0.00315	0.00589	PASS
Extreme (-30℃)		11.00	10.19	12.45	1.00	7.19	0.00585	0.00542	0.00662	0.00053	0.00383	PASS
25℃	LV	7.80	6.28	15.91	8.80	1.28	0.00415	0.00334	0.00846	0.00468	0.00068	PASS
	HV	11.87	14.84	8.21	17.87	15.84	0.00632	0.00790	0.00437	0.00951	0.00843	PASS



DC_5A-n66A												
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	5MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	8.94	5.47	9.95	7.94	15.47	0.00475	0.00291	0.00529	0.00422	0.00823	PASS
Extreme (50℃)		7.70	8.43	1.86	14.70	3.43	0.00410	0.00448	0.00099	0.00782	0.00182	PASS
Extreme (40℃)		5.91	9.13	16.04	12.91	11.13	0.00315	0.00486	0.00853	0.00687	0.00592	PASS
Extreme (30℃)		14.32	1.32	9.62	13.32	4.32	0.00762	0.00070	0.00512	0.00708	0.00230	PASS
Extreme (20℃)		6.02	17.57	16.41	16.02	16.57	0.00320	0.00935	0.00873	0.00852	0.00882	PASS
Extreme (10℃)		7.65	7.75	8.06	3.65	17.75	0.00407	0.00412	0.00428	0.00194	0.00944	PASS
Extreme (0℃)		15.29	13.52	9.40	3.29	3.52	0.00813	0.00719	0.00500	0.00175	0.00187	PASS
Extreme (-10℃)		11.35	3.66	2.39	15.35	8.66	0.00604	0.00195	0.00127	0.00817	0.00461	PASS
Extreme (-20℃)		4.58	4.72	1.70	11.58	13.72	0.00244	0.00251	0.00090	0.00616	0.00730	PASS
Extreme (-30℃)		11.76	12.50	3.43	5.76	6.50	0.00626	0.00665	0.00182	0.00307	0.00346	PASS
25℃	LV	14.45	14.54	7.72	14.45	9.54	0.00768	0.00773	0.00411	0.00768	0.00507	PASS
	HV	12.21	16.70	10.81	4.21	11.70	0.00649	0.00888	0.00575	0.00224	0.00622	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	10MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	17.11	17.73	1.42	12.11	4.73	0.00910	0.00943	0.00076	0.00644	0.00252	PASS
Extreme (50℃)		2.30	13.44	10.90	12.30	9.44	0.00123	0.00715	0.00580	0.00654	0.00502	PASS
Extreme (40℃)		3.54	7.35	17.65	16.54	12.35	0.00188	0.00391	0.00939	0.00880	0.00657	PASS
Extreme (30℃)		6.15	14.10	16.24	10.15	5.10	0.00327	0.00750	0.00864	0.00540	0.00272	PASS
Extreme (20℃)		16.49	8.31	5.09	17.49	5.31	0.00877	0.00442	0.00271	0.00930	0.00282	PASS
Extreme (10℃)		15.50	14.28	11.77	1.50	9.28	0.00824	0.00759	0.00626	0.00080	0.00493	PASS
Extreme (0℃)		7.77	3.75	6.23	4.77	9.75	0.00413	0.00199	0.00331	0.00253	0.00518	PASS
Extreme (-10℃)		11.73	12.37	8.41	5.73	15.37	0.00624	0.00658	0.00447	0.00305	0.00818	PASS
Extreme (-20℃)		17.98	7.69	12.02	5.98	3.69	0.00956	0.00409	0.00639	0.00318	0.00196	PASS
Extreme (-30℃)		7.59	13.64	9.50	7.59	17.64	0.00404	0.00726	0.00505	0.00404	0.00938	PASS
25℃	LV	12.67	17.99	15.98	9.67	7.99	0.00674	0.00957	0.00850	0.00514	0.00425	PASS
	HV	11.16	13.01	4.19	6.16	1.01	0.00593	0.00692	0.00223	0.00327	0.00054	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	15MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	



Normal (25℃)	Normal	15.34	10.94	5.08	1.34	1.94	0.00816	0.00582	0.00270	0.00071	0.00103	PASS
Extreme (50℃)		4.49	4.09	12.37	9.49	17.09	0.00239	0.00217	0.00658	0.00505	0.00909	PASS
Extreme (40℃)		7.21	10.22	2.93	17.21	17.22	0.00384	0.00544	0.00156	0.00916	0.00916	PASS
Extreme (30℃)		15.15	8.82	3.00	17.15	8.82	0.00806	0.00469	0.00160	0.00912	0.00469	PASS
Extreme (20℃)		4.75	16.33	3.06	10.75	11.33	0.00253	0.00869	0.00163	0.00572	0.00603	PASS
Extreme (10℃)		5.33	6.08	11.28	6.33	11.08	0.00283	0.00324	0.00600	0.00337	0.00589	PASS
Extreme (0℃)		4.97	1.69	8.20	12.97	1.69	0.00264	0.00090	0.00436	0.00690	0.00090	PASS
Extreme (-10℃)		12.83	11.79	17.65	13.83	14.79	0.00682	0.00627	0.00939	0.00736	0.00787	PASS
Extreme (-20℃)		9.22	10.99	4.10	9.22	15.99	0.00490	0.00585	0.00218	0.00490	0.00851	PASS
Extreme (-30℃)		11.26	16.00	1.51	6.26	16.00	0.00599	0.00851	0.00081	0.00333	0.00851	PASS
25℃	LV	17.29	6.86	1.88	12.29	2.86	0.00920	0.00365	0.00100	0.00654	0.00152	PASS
	HV	12.46	12.81	14.36	1.46	7.81	0.00663	0.00682	0.00764	0.00078	0.00416	PASS
Condition		Freq.Error	Freq.Error	Freq.Error	Freq.Error	Freq.Error	Frequency	Frequency	Frequency	Frequency	Frequency	Verdict
BANDWIDTH	20MHz	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	Stability (ppm)	
Temperature	Voltage	256QAM	BPSK	64QAM	16QAM	QPSK	256QAM	BPSK	64QAM	16QAM	QPSK	
Normal (25℃)	Normal	7.19	10.01	11.74	1.19	15.01	0.00382	0.00533	0.00625	0.00063	0.00799	PASS
Extreme (50℃)		4.19	11.67	16.29	15.19	11.67	0.00223	0.00621	0.00866	0.00808	0.00621	PASS
Extreme (40℃)		2.41	5.54	1.29	6.41	10.54	0.00128	0.00295	0.00068	0.00341	0.00561	PASS
Extreme (30℃)		15.15	17.22	16.32	3.15	8.22	0.00806	0.00916	0.00868	0.00167	0.00437	PASS
Extreme (20℃)		1.52	11.72	1.12	4.52	9.72	0.00081	0.00623	0.00059	0.00240	0.00517	PASS
Extreme (10℃)		11.27	14.68	5.08	14.27	9.68	0.00600	0.00781	0.00270	0.00759	0.00515	PASS
Extreme (0℃)		9.02	15.26	14.64	16.02	2.26	0.00480	0.00812	0.00779	0.00852	0.00120	PASS
Extreme (-10℃)		3.59	10.10	1.67	7.59	3.10	0.00191	0.00537	0.00089	0.00404	0.00165	PASS
Extreme (-20℃)		5.65	4.25	14.56	5.65	7.25	0.00301	0.00226	0.00775	0.00301	0.00386	PASS
Extreme (-30℃)		1.88	4.50	7.97	5.88	13.50	0.00100	0.00240	0.00424	0.00313	0.00718	PASS
25℃	LV	12.52	10.29	17.31	6.52	14.29	0.00666	0.00548	0.00921	0.00347	0.00760	PASS
	HV	16.01	16.03	5.02	6.01	2.03	0.00852	0.00853	0.00267	0.00320	0.00108	PASS