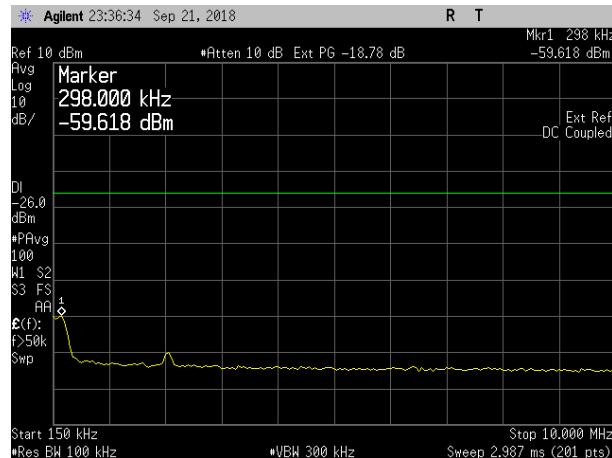


20MHz Bottom Channel (2120MHz) NB IoT at lower Guard Band:

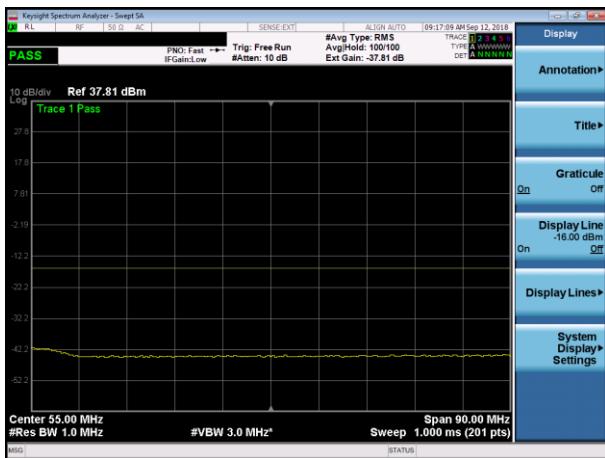
LTE20 Bottom+NB IoT GB (Lower) 0.009-0.15Mhz



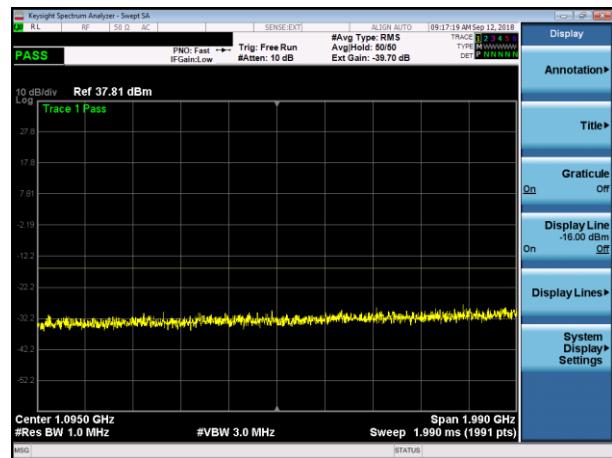
LTE20 Bottom+NB IoT GB (Lower) 0.15MHz – 10MHz



LTE20 Bottom+NB IoT GB (Lower) 10-100Mhz



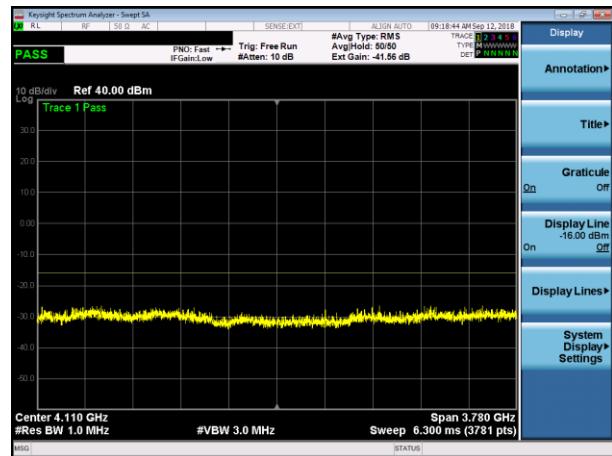
LTE20 Bottom+NB IoT GB (Lower) 100MHz – 2090MHz



LTE20 BOTTOM+NB IoT GB (Lower) 2090MHz – 2220MHz

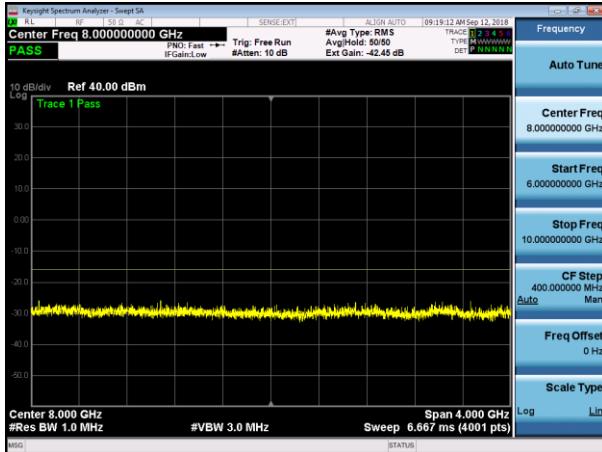


LTE20 BOTTOM+NB IoT GB (Lower) 2220MHz-6000Mhz

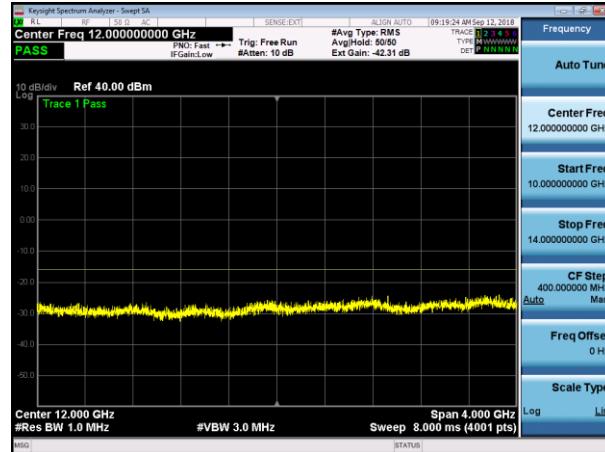




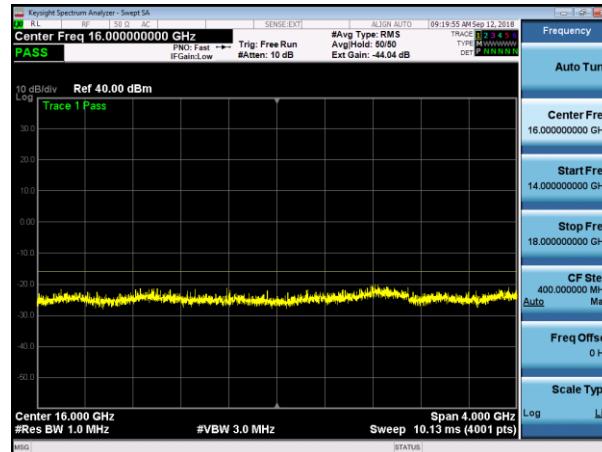
LTE20 BOTTOM+NB IoT GB (Lower) 6000MHz-10000MHz



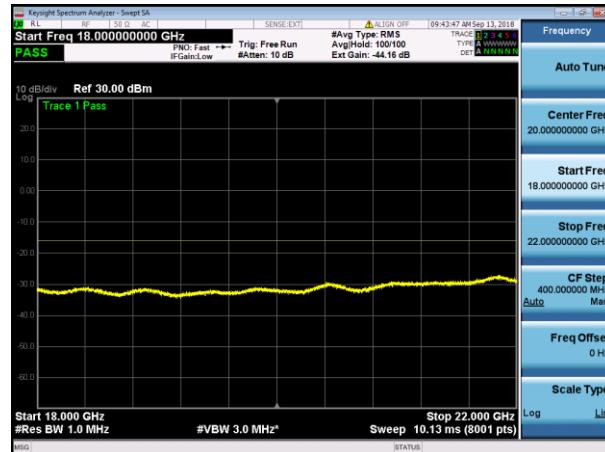
LTE20 BOTTOM+NB IoT GB (Lower) 10000-14000MHz



LTE20 BOTTOM+NB IoT GB (Lower) 14000MHz – 18000MHz



LTE20 BOTTOM+NB IoT GB (Lower) 18000MHz – 22000MHz

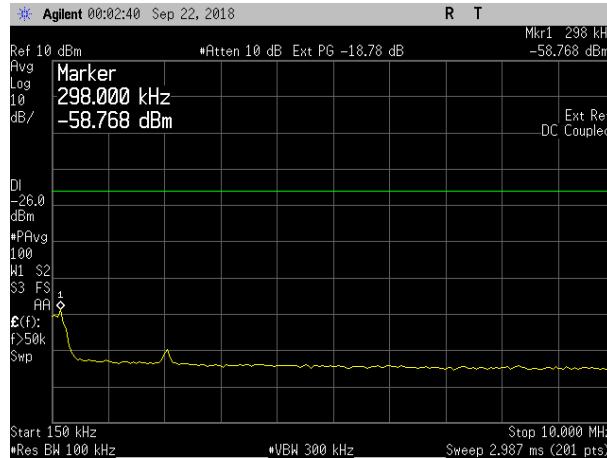


20MHz Middle Channel (2132.5MHz) NB IoT at lower Guard Band:

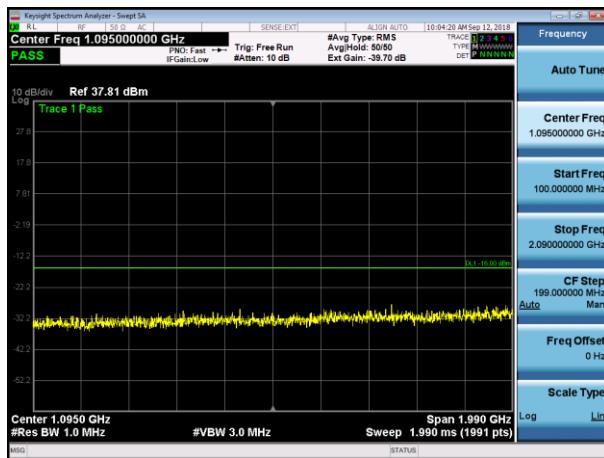
LTE20 Mid+NB IoT GB (Lower) 0.009-0.15Mhz



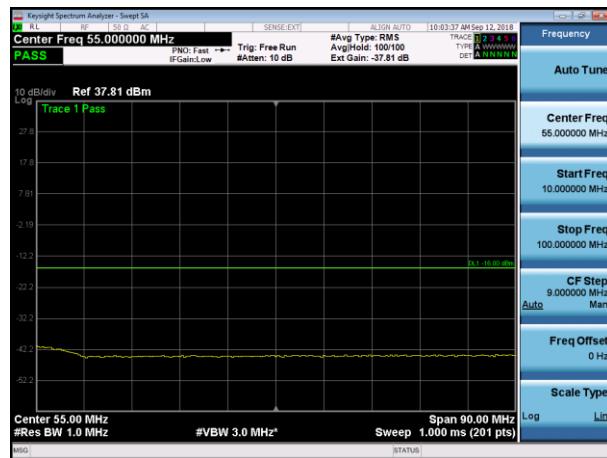
LTE20 Mid+NB IoT GB (Lower) 0.15MHz – 10MHz



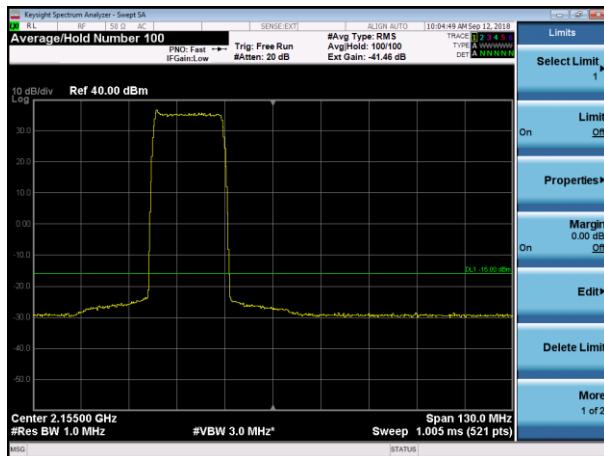
LTE20 Mid+NB IoT GB (Lower) 10MHz-100MHz



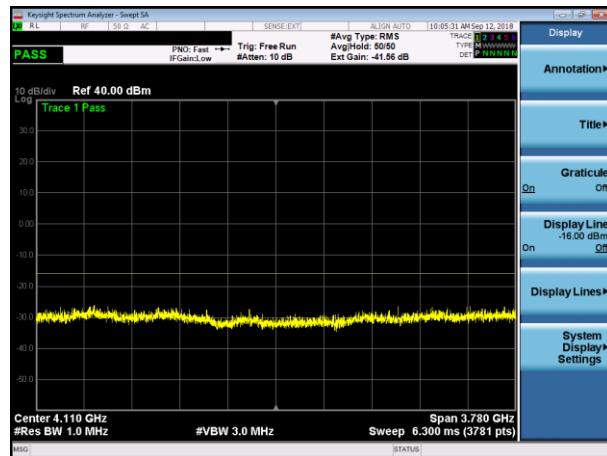
LTE20 Mid+NB IoT GB (Lower) 100MHz-2090MHz



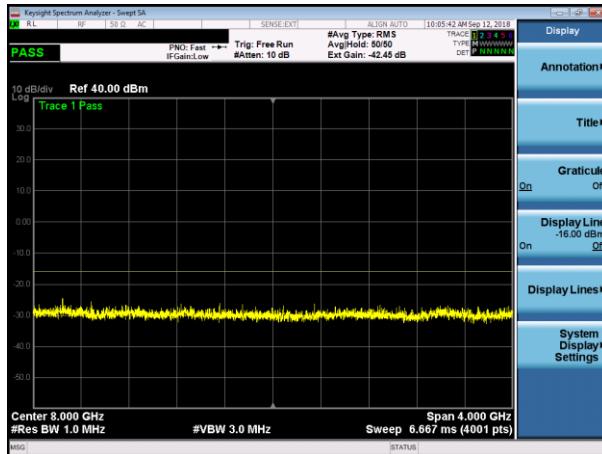
LTE20 Mid+NB IoT GB (Lower) 2090MHz-2220MHz



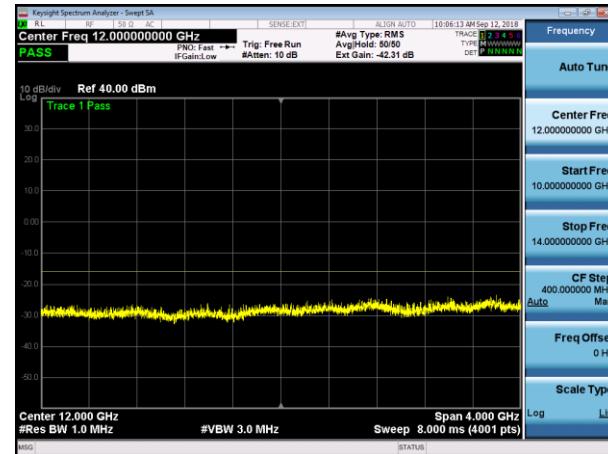
LTE20 Mid+NB IoT GB (Lower) 2220MHz-6000MHz



LTE20 Mid+NB IoT GB (Lower) 6000MHz-10000MHz



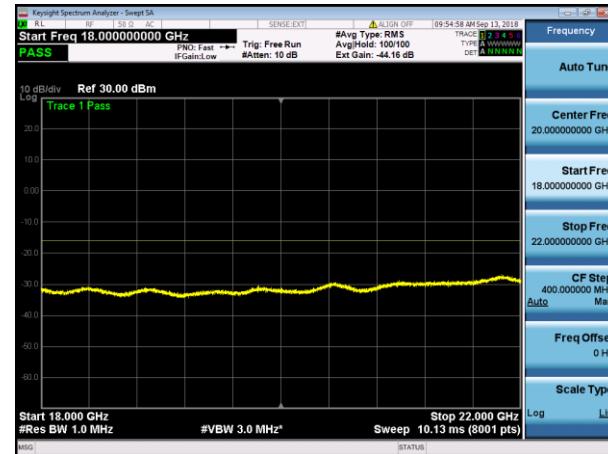
LTE20 Mid+NB IoT GB (Lower) 10000MHz-14000MHz



LTE20 Mid+NB IoT GB (Lower) 14000MHz-18000MHz



LTE20 Mid+NB IoT GB (Lower) 18000MHz-22000MHz

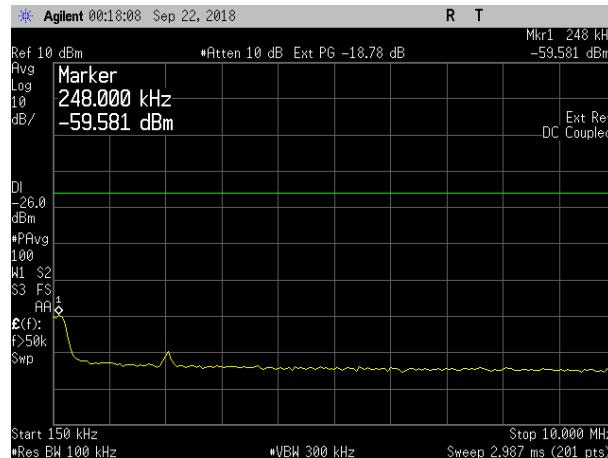


20MHz Top Channel (2145MHz) NB IoT at lower Guard Band:

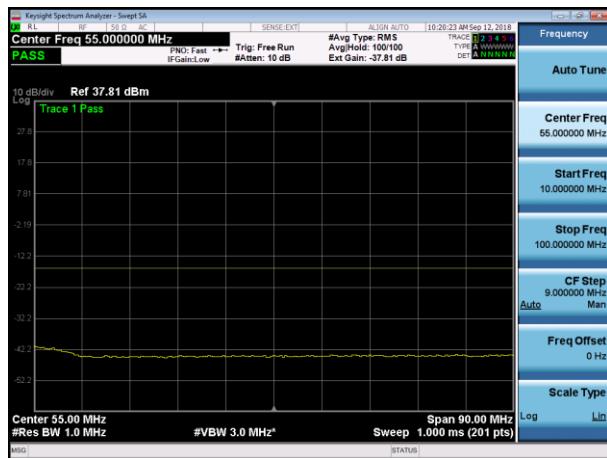
LTE20 Top+NB IoT GB (Lower) 0.009-0.15Mhz



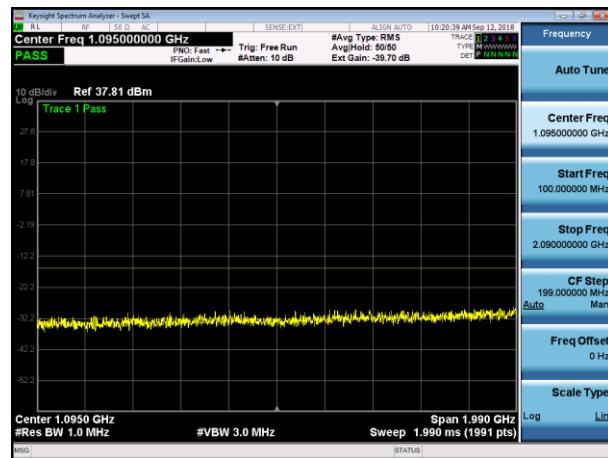
LTE20 Top+NB IoT GB (Lower) 0.15MHz – 10MHz



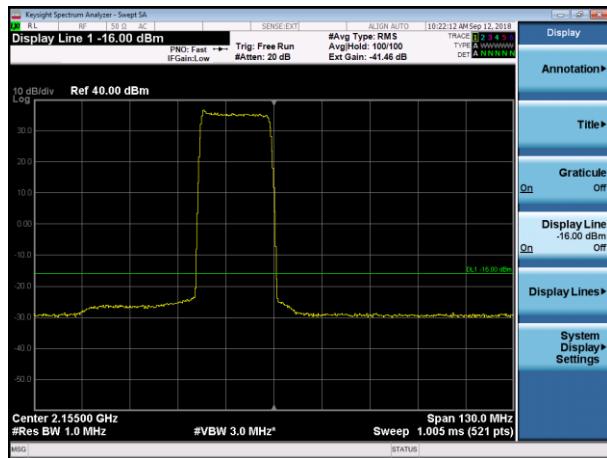
LTE20 Top+NB IoT GB (Lower) 10MHz-100MHz



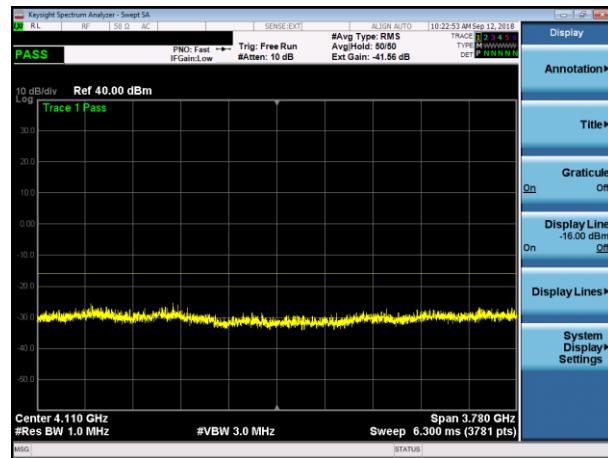
LTE20 Top+NB IoT GB (Lower) 100MHz-2090MHz

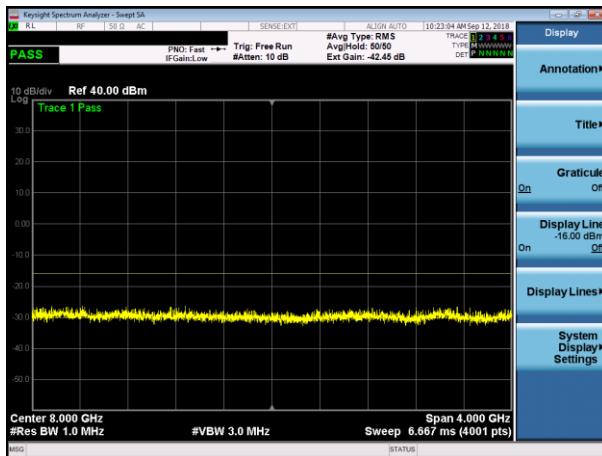
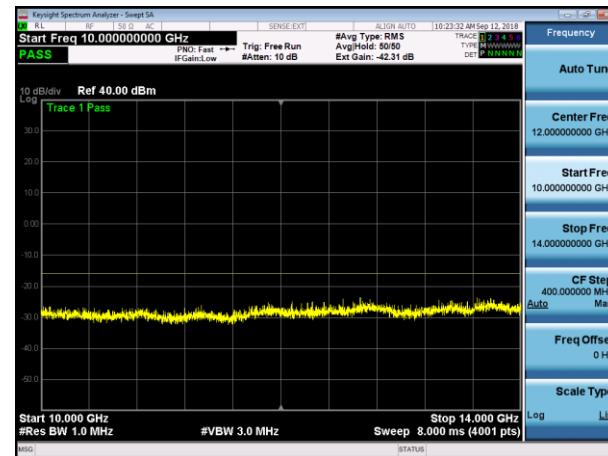


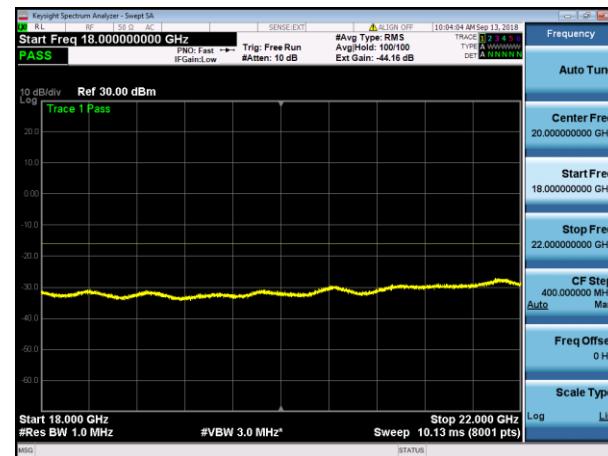
LTE20 Top+NB IoT GB (Lower) 2090MHz-2220MHz



LTE20 Top+NB IoT GB (Lower) 2220MHz-6000MHz



LTE20 Top+NB IoT GB (Lower) 6000MHz-10000MHz

LTE20 Top+NB IoT GB (Lower) 10000MHz-14000MHz

LTE20 Top+NB IoT GB (Lower) 14000MHz-18000MHz

LTE20 Top+NB IoT GB (Lower) 18000MHz-22000MHz


10MHz Bottom Channel (2115MHz) NB IoT at Upper Guard Band:

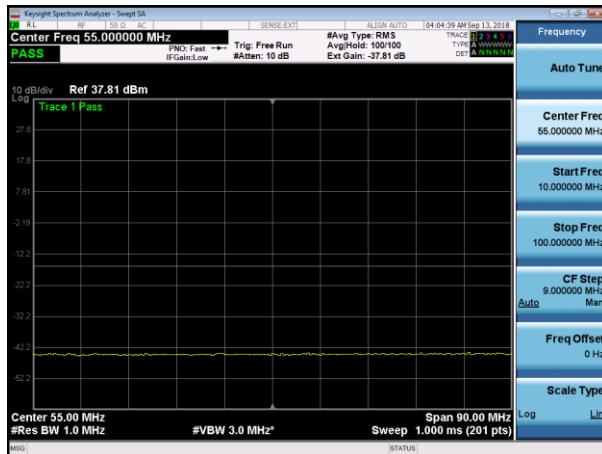
LTE10 Bottom+NB IoT GB (Upper) 0.009-0.15Mhz



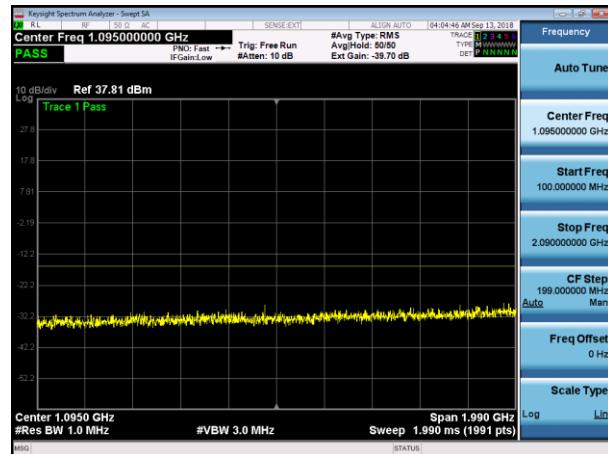
LTE10 Bottom+NB IoT GB (Upper) 0.15MHz – 10MHz



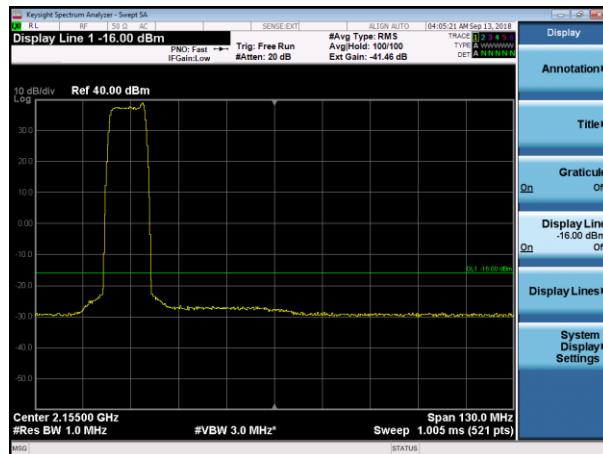
LTE10 Bottom+NB IoT GB (Upper) 10-100Mhz



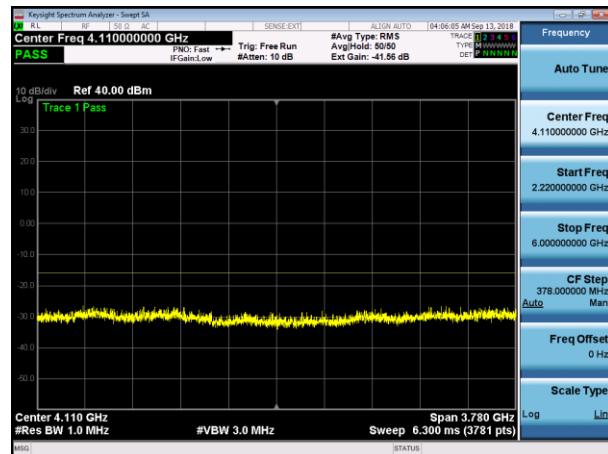
LTE10 Bottom+NB IoT GB (Upper) 100MHz – 2090MHz



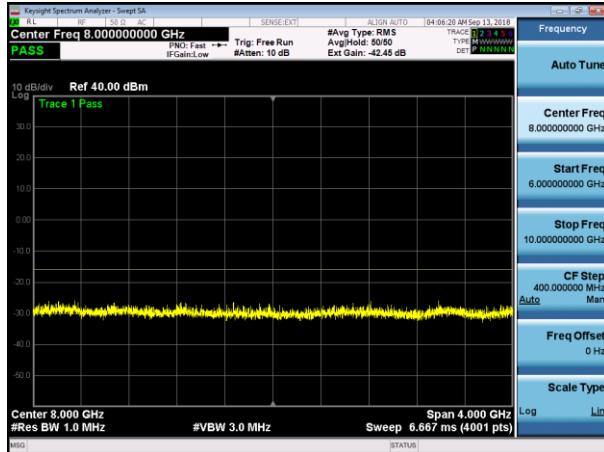
LTE10 BOTTOM+NB IoT GB (Upper) 2090MHz – 2220MHz



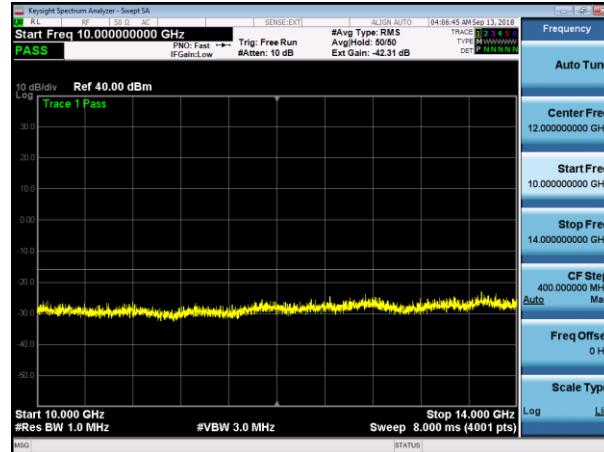
LTE10 BOTTOM+NB IoT GB (Upper) 2220MHz-6000Mhz



LTE10 BOTTOM+NB IoT GB (Upper) 6000MHz-10000MHz



LTE10 BOTTOM+NB IoT GB (Upper) 10000-14000MHz



LTE10 BOTTOM+NB IoT GB (Upper) 14000MHz – 18000MHz

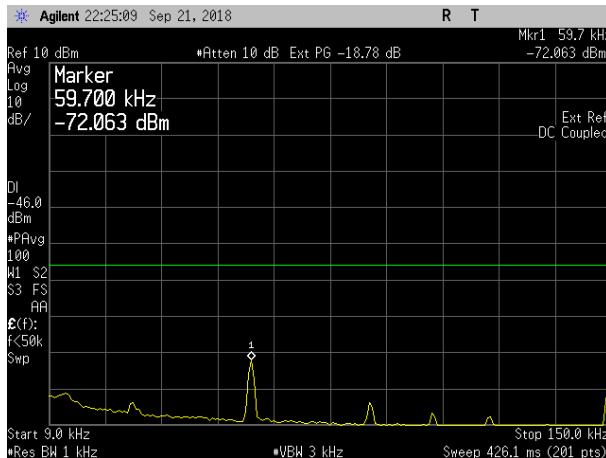


LTE10 BOTTOM+NB IoT GB (Upper) 18000MHz – 22000MHz

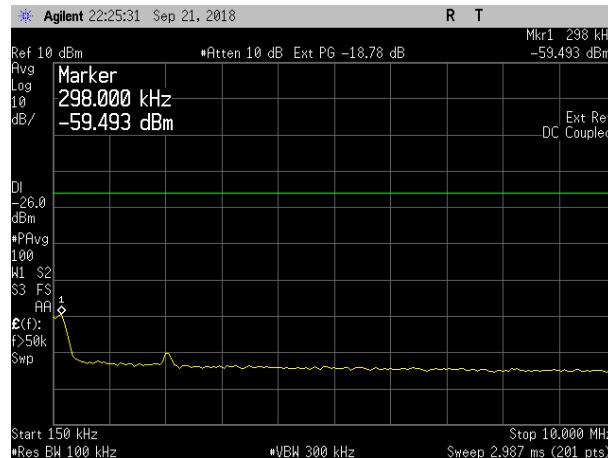


10MHz Middle Channel (2132.5MHz) NB IoT at Upper Guard Band:

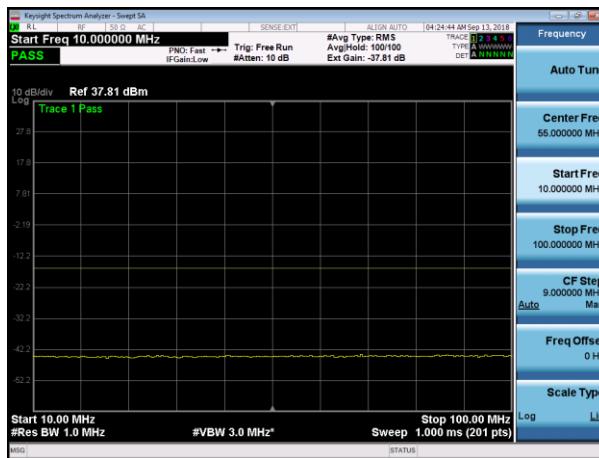
LTE10 Mid+NB IoT GB (Upper) 0.009-0.15Mhz



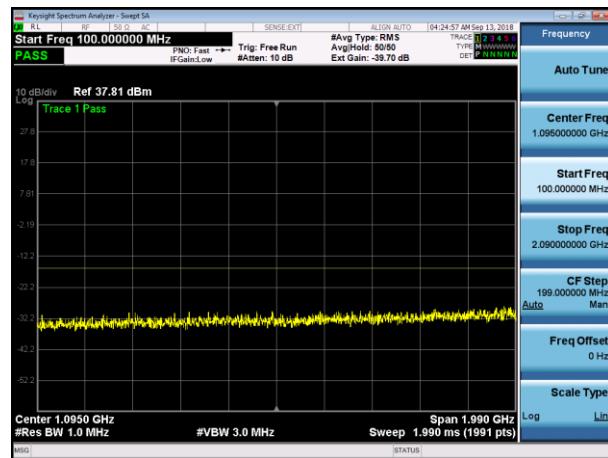
LTE10 Mid+NB IoT GB (Upper) 0.15MHz – 10MHz



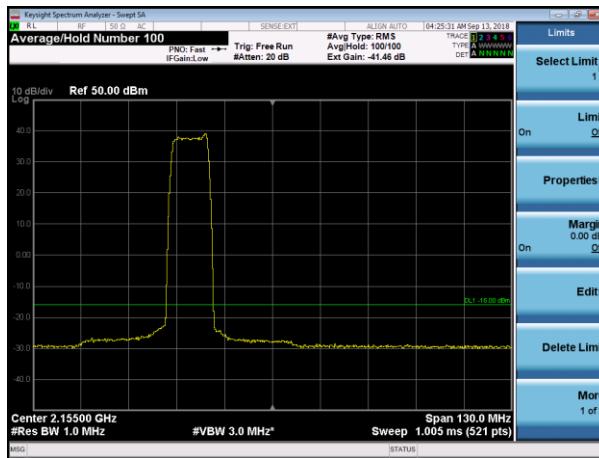
LTE10 Mid+NB IoT GB (Upper) 10MHz-100MHz



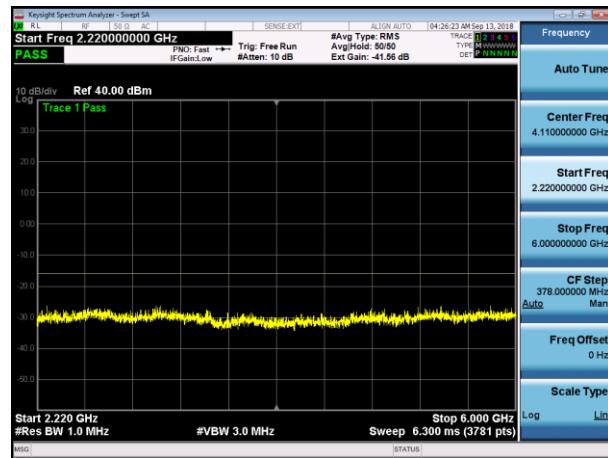
LTE10 Mid+NB IoT GB (Upper) 100MHz-2090MHz



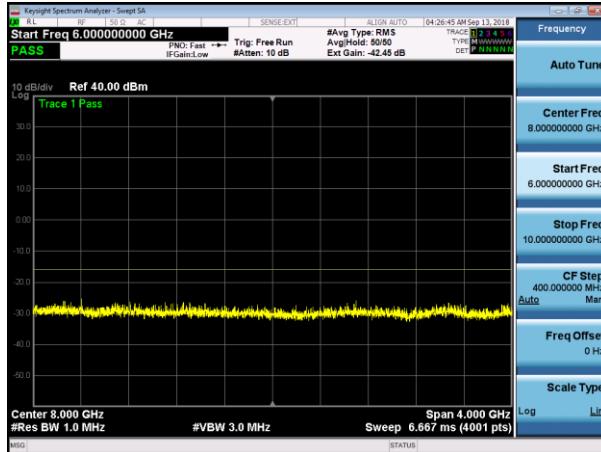
LTE10 Mid+NB IoT GB (Upper) 2090MHz-2220MHz



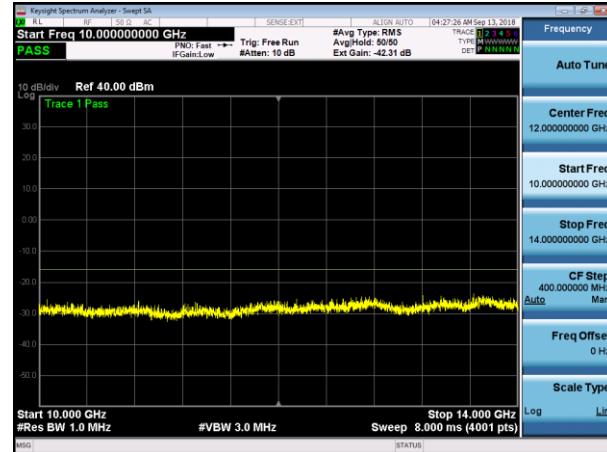
LTE10 Mid+NB IoT GB (Upper) 2220MHz-6000MHz



LTE10 Mid+NB IoT GB (Upper) 6000MHz-10000MHz



LTE10 Mid+NB IoT GB (Upper) 10000MHz-14000MHz



LTE10 Mid+NB IoT GB (Upper) 14000MHz-18000MHz

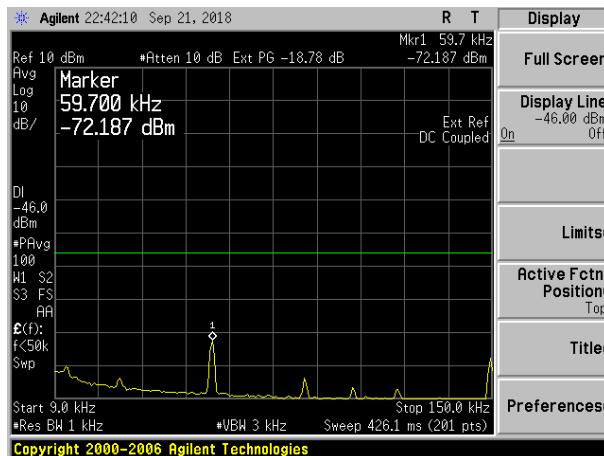


LTE10 Mid+NB IoT GB (Upper) 18000MHz-22000MHz

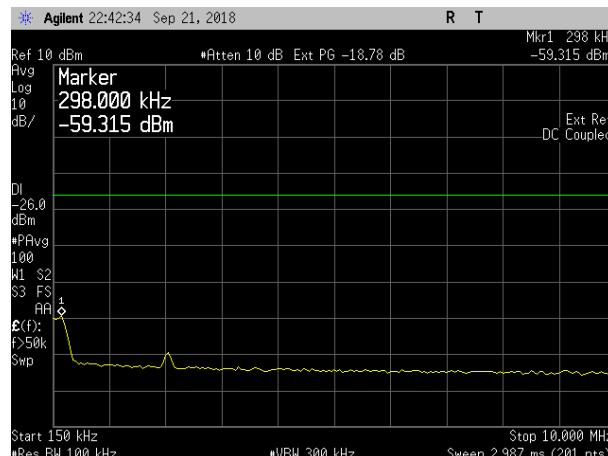


10MHz Top Channel (2150MHz) NB IoT at Upper Guard Band

LTE10 Top+NB IoT GB (Upper) 0.009-0.15Mhz



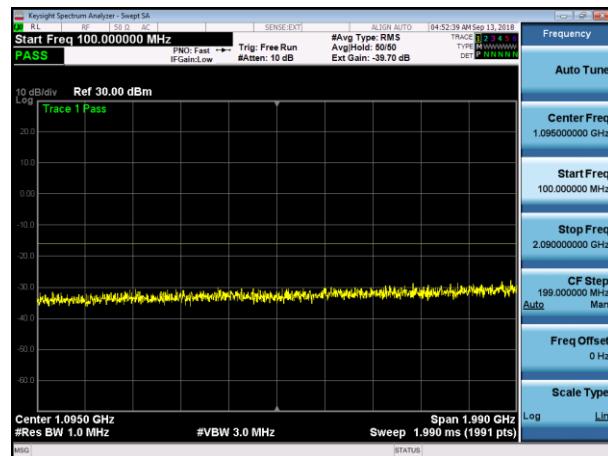
LTE10 Top+NB IoT GB (Upper) 0.15MHz – 10MHz



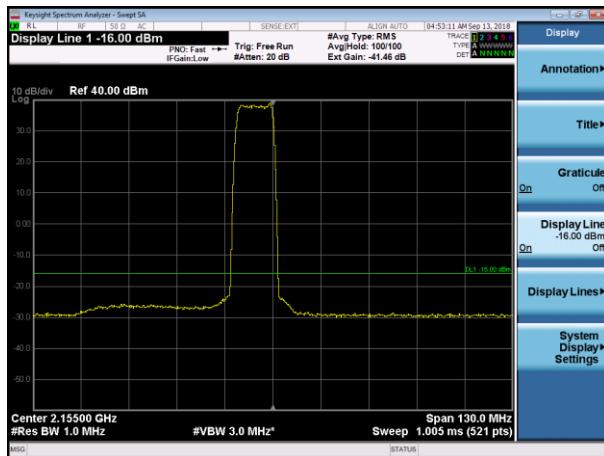
LTE10 Top+NB IoT GB (Upper) 10MHz-100MHz



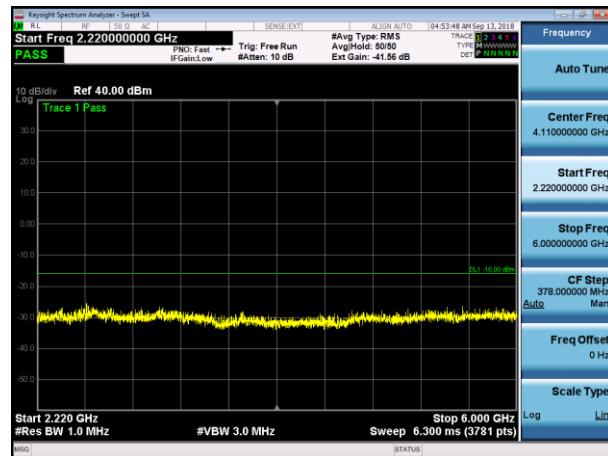
LTE10 Top+NB IoT GB (Upper) 100MHz-2090MHz

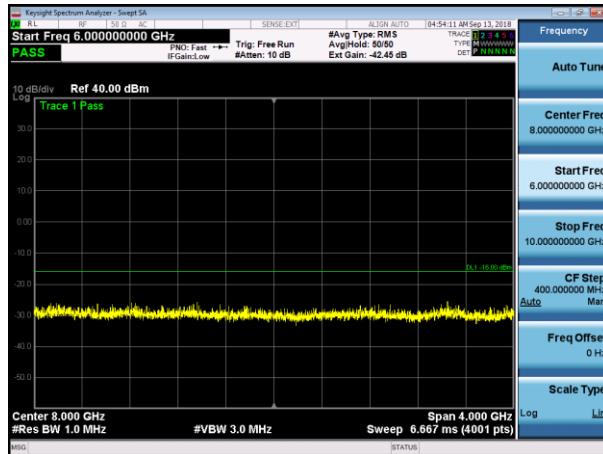
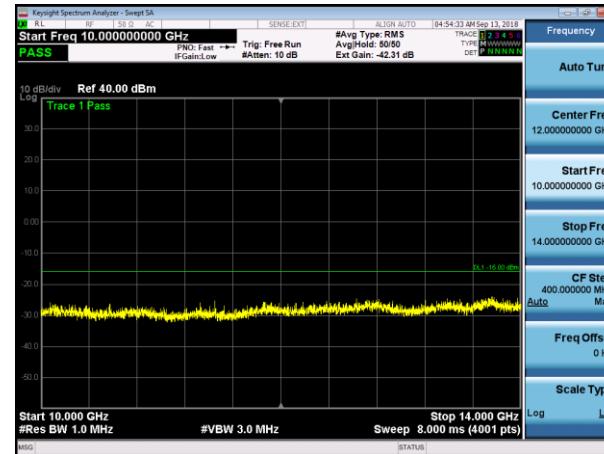
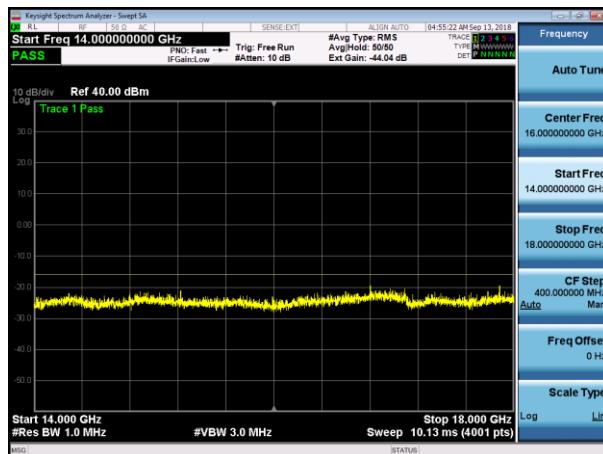
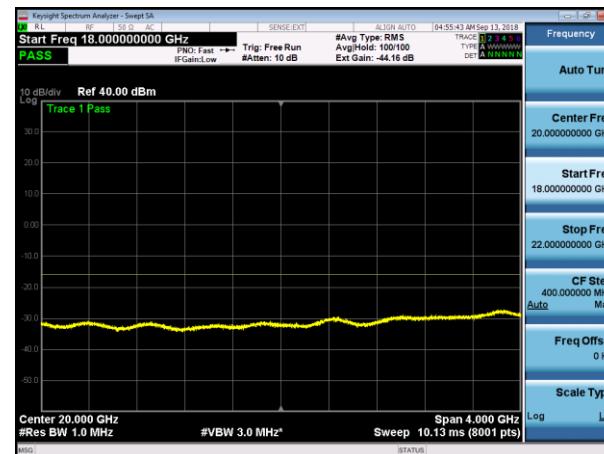


LTE10 Top+NB IoT GB (Upper) 2090MHz-2220MHz



LTE10 Top+NB IoT GB (Upper) 2220MHz-6000MHz



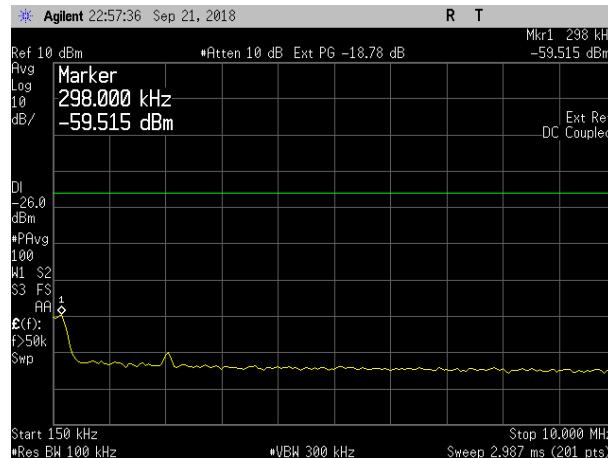
LTE10 Top+NB IoT GB (Upper) 6000MHz-10000MHz

LTE10 Top+NB IoT GB (Upper) 10000MHz-14000MHz

LTE10 Top+NB IoT GB (Upper) 14000MHz-18000MHz

LTE10 Top+NB IoT GB (Upper) 18000MHz-22000MHz


15MHz Bottom Channel (2117.5MHz) NB IoT at lower Guard Band

LTE15 Bottom+NB IoT GB (Upper) 0.009-0.15Mhz



LTE15 Bottom+NB IoT GB (Upper) 0.15MHz – 10MHz



LTE15 Bottom+NB IoT GB (Upper) 10-100Mhz



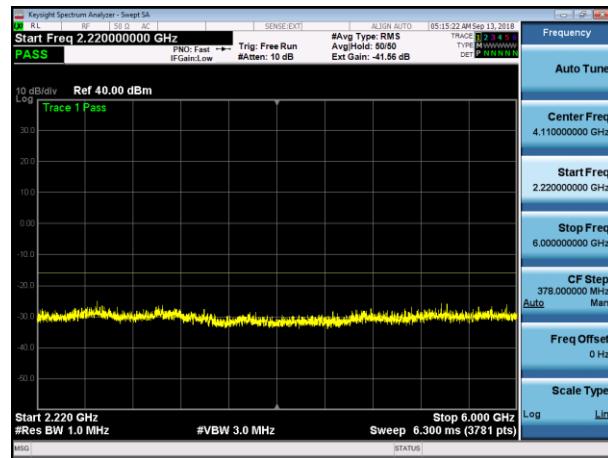
LTE15 Bottom+NB IoT GB (Upper) 100MHz – 2090MHz

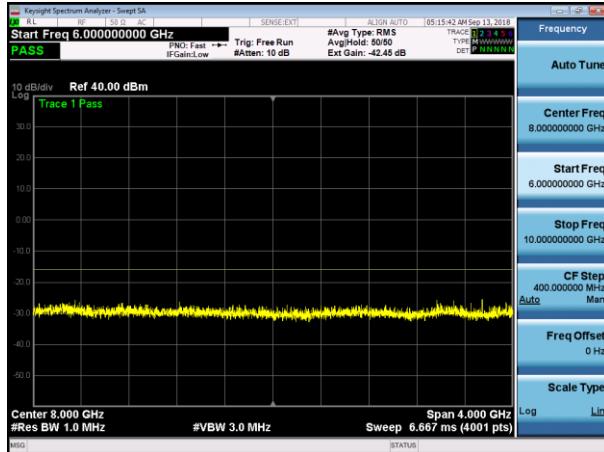
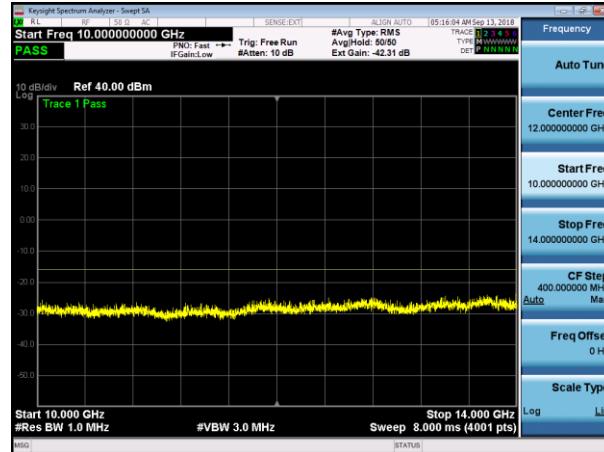
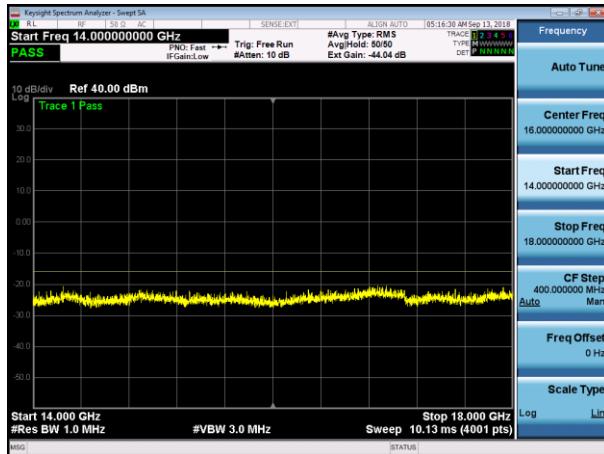
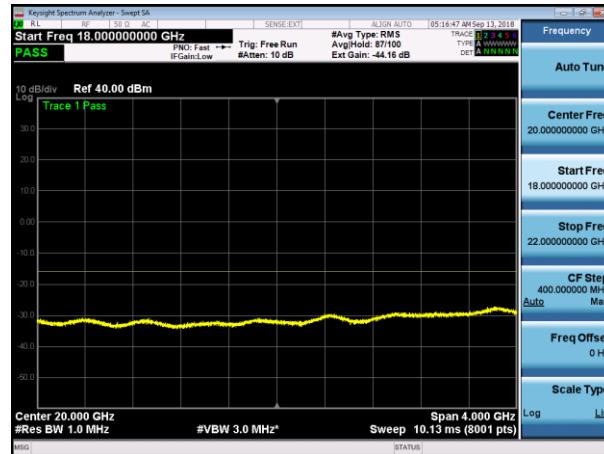


LTE15 BOTTOM+NB IoT GB (Upper) 2090MHz – 2220MHz



LTE15 BOTTOM+NB IoT GB (Upper) 2220MHz-6000Mhz



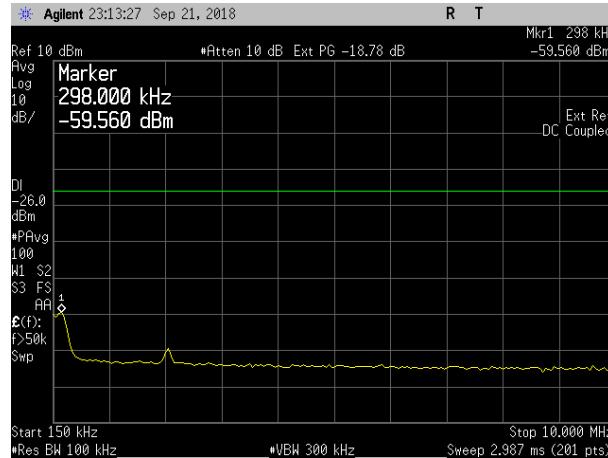
LTE15 BOTTOM+NB IoT GB (Upper) 6000MHz-10000MHz

LTE15 BOTTOM+NB IoT GB (Upper) 10000-14000MHz

LTE15 BOTTOM+NB IoT GB (Upper) 14000MHz – 18000MHz

LTE15 BOTTOM+NB IoT GB (Upper) 18000MHz – 22000MHz


15MHz Middle Channel (2132.5MHz) NB IoT at lower Guard Band

LTE15 Mid+NB IoT GB (Upper) 0.009-0.15Mhz



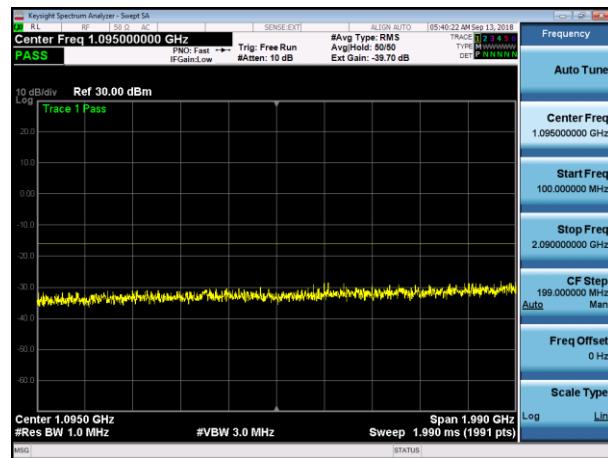
LTE15 Mid+NB IoT GB (Upper) 0.15MHz – 10MHz



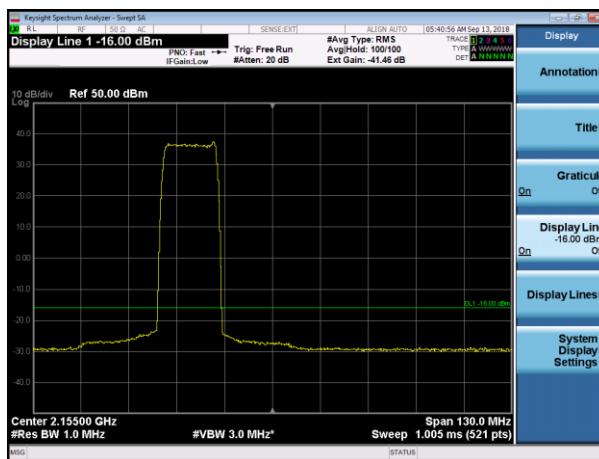
LTE15 Mid+NB IoT GB (Upper) 10MHz-100MHz



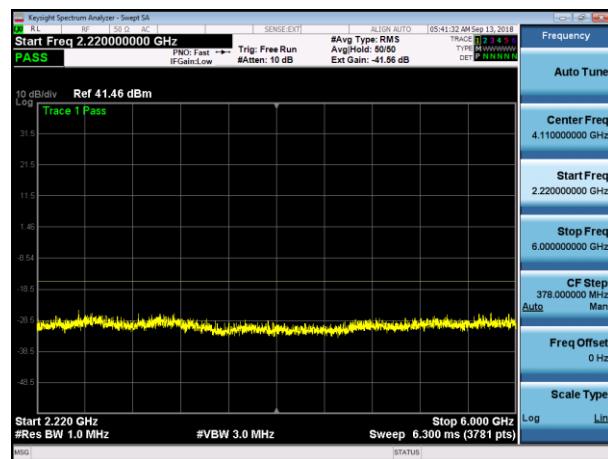
LTE15 Mid+NB IoT GB (Upper) 100MHz-2090MHz



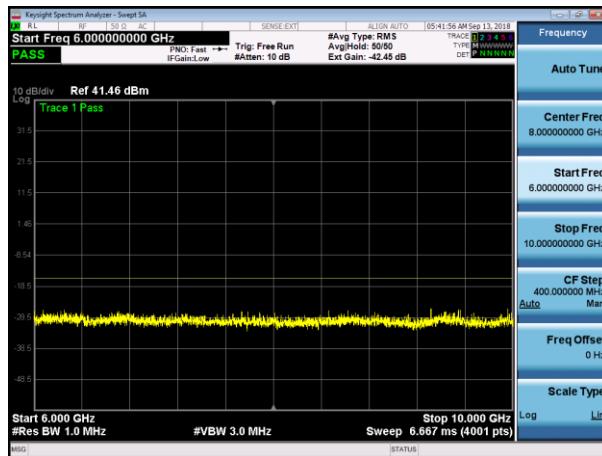
LTE15 Mid+NB IoT GB (Upper) 2090MHz-2220MHz



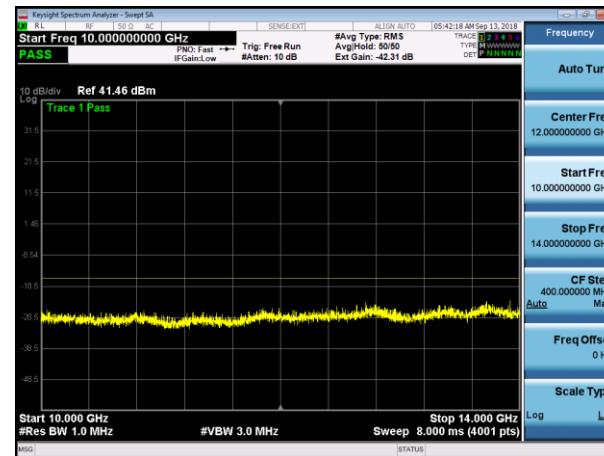
LTE15 Mid+NB IoT GB (Upper) 2220MHz-6000MHz



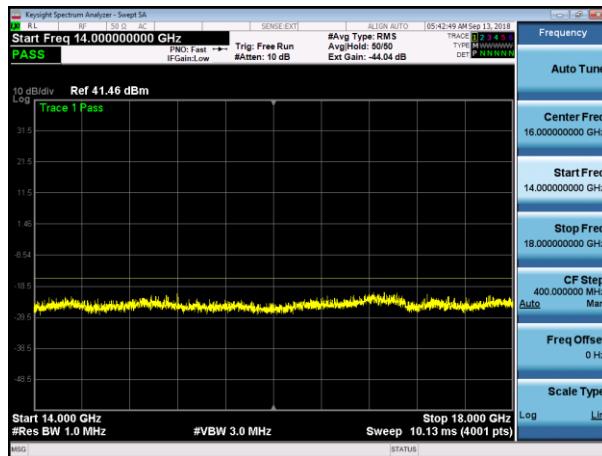
LTE15 Mid+NB IoT GB (Upper) 6000MHz-10000MHz



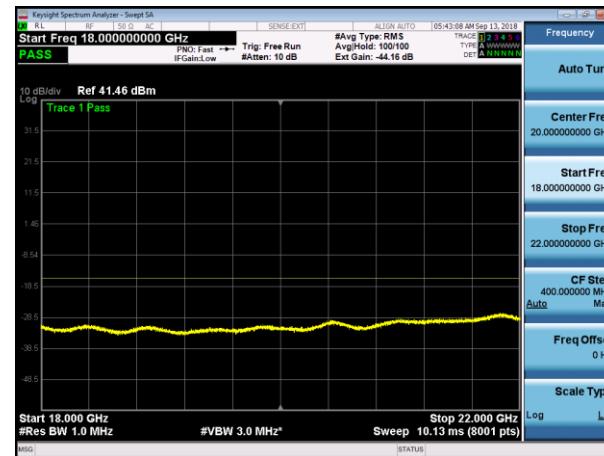
LTE15 Mid+NB IoT GB (Upper) 10000MHz-14000MHz



LTE15 Mid+NB IoT GB (Upper) 14000MHz-18000MHz

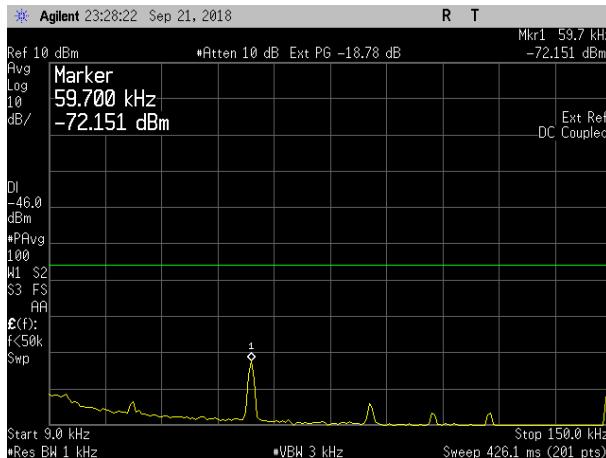


LTE15 Mid+NB IoT GB (Upper) 18000MHz-22000MHz

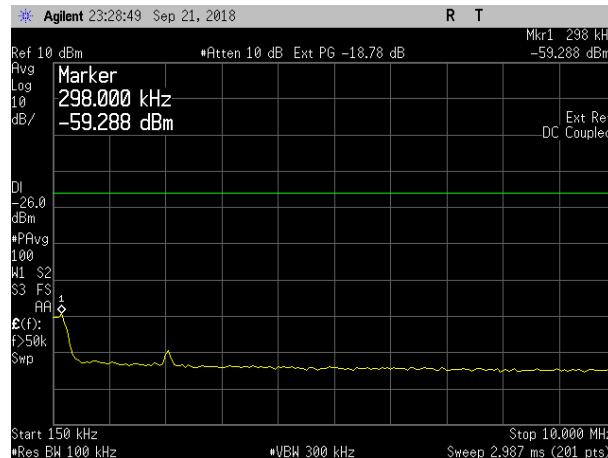


15MHz Top Channel (2147.5Hz) NB IoT at lower Guard Band

LTE15 Top+NB IoT GB (Upper) 0.009-0.15Mhz



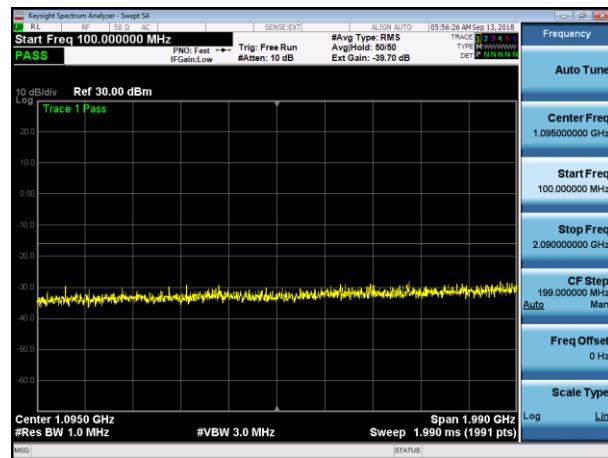
LTE15 Top+NB IoT GB (Upper) 0.15MHz – 10MHz



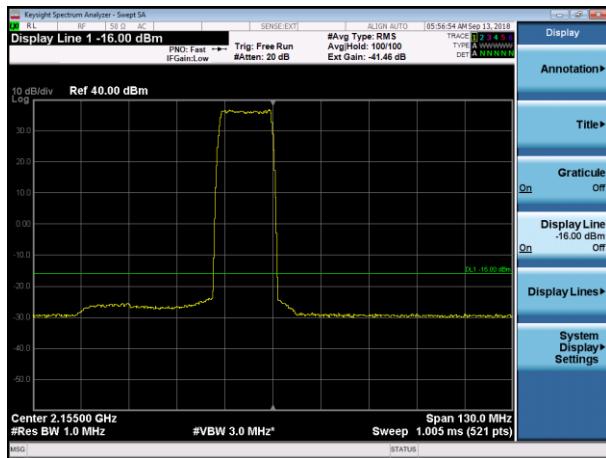
LTE15 Top+NB IoT GB (Upper) 10MHz-100MHz



LTE15 Top+NB IoT GB (Upper) 100MHz-2090MHz



LTE15 Top+NB IoT GB (Upper) 2090MHz-2220MHz



LTE15 Top+NB IoT GB (Upper) 2220MHz-6000MHz

