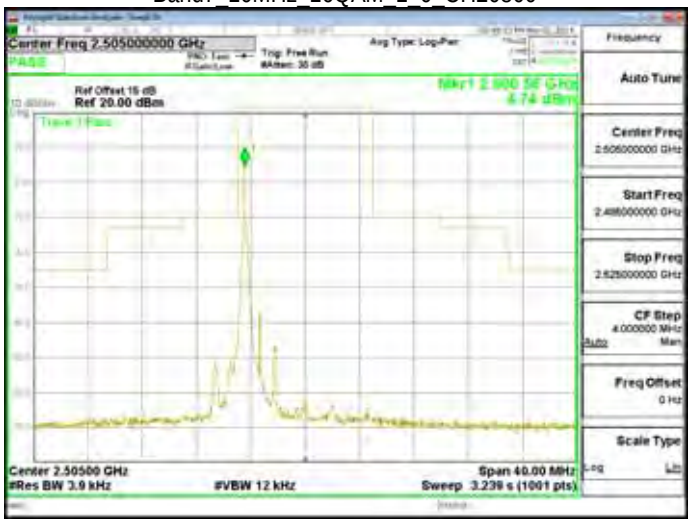
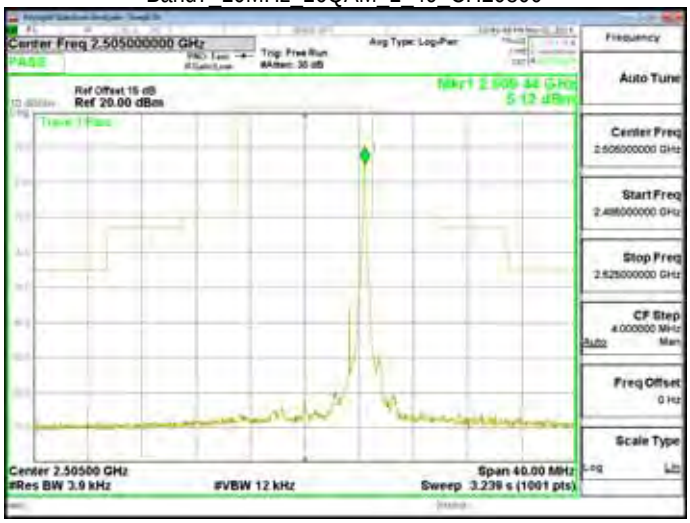
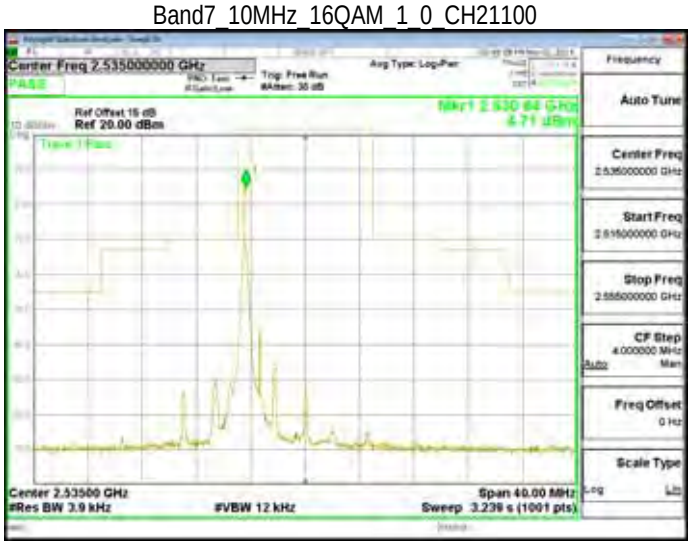
Band7_10MHz_16QAM_1_0_CH20800



Band7_10MHz_16QAM_1_49_CH20800



Band7_10MHz_16QAM_1_0_CH21100



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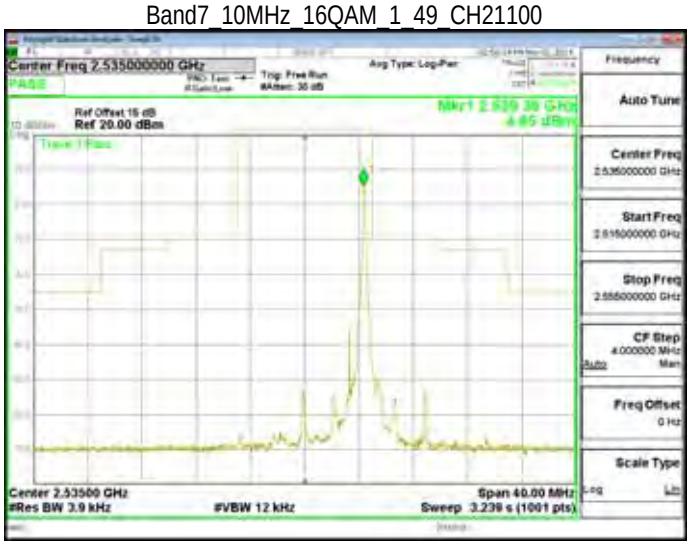
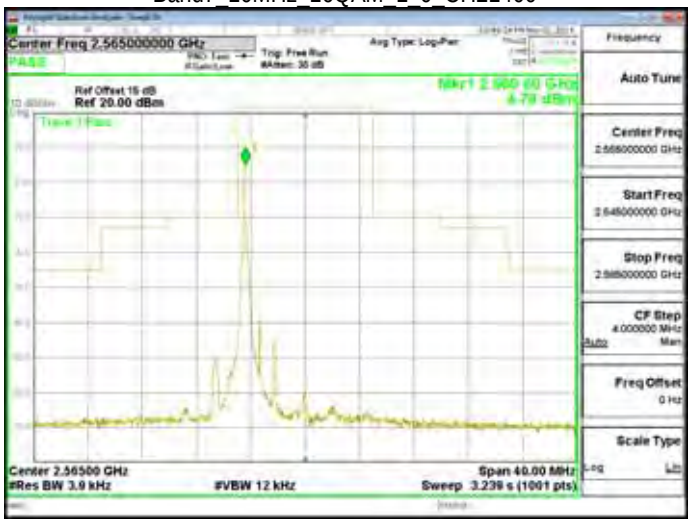


Band7_10MHz_16QAM_1_0_CH21400



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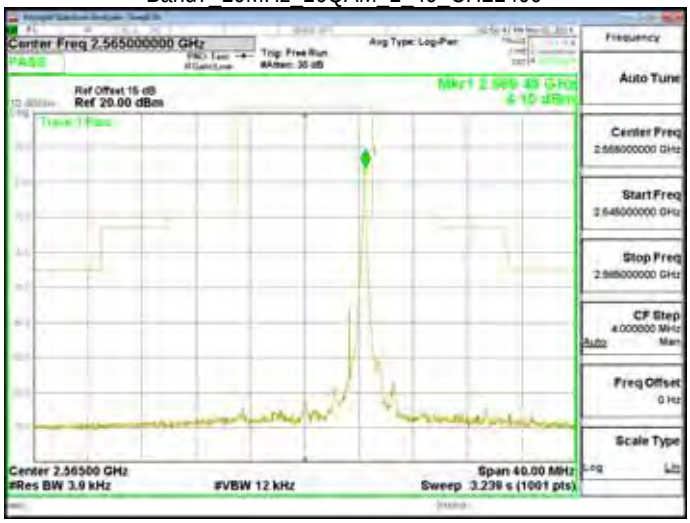

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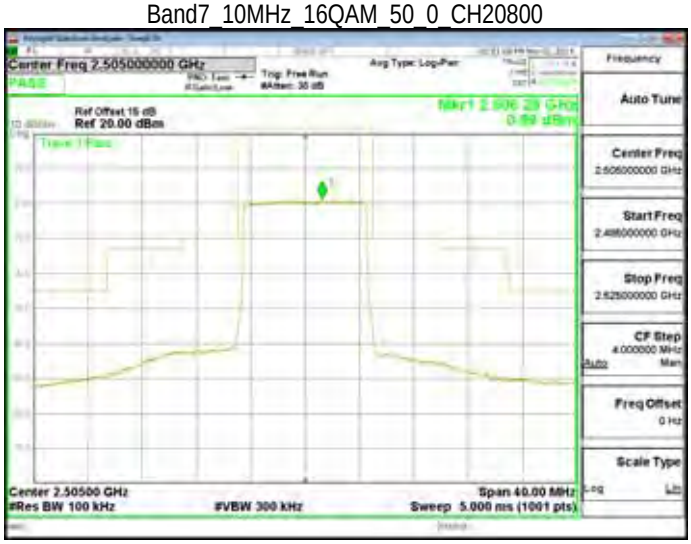
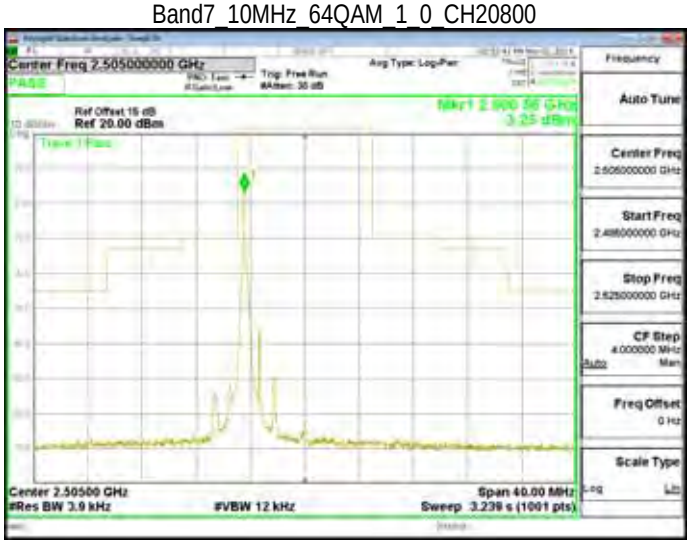
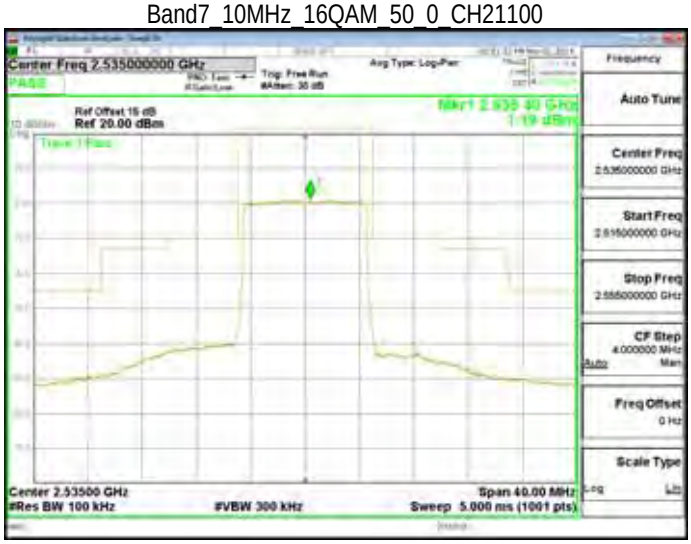
Band7_10MHz_16QAM_50_0_CH20800



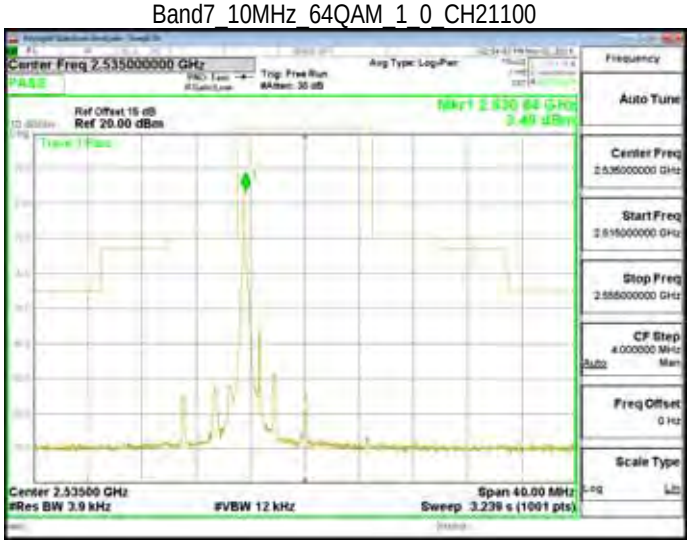
Band7_10MHz_64QAM_1_0_CH20800



Band7_10MHz_16QAM_50_0_CH21100

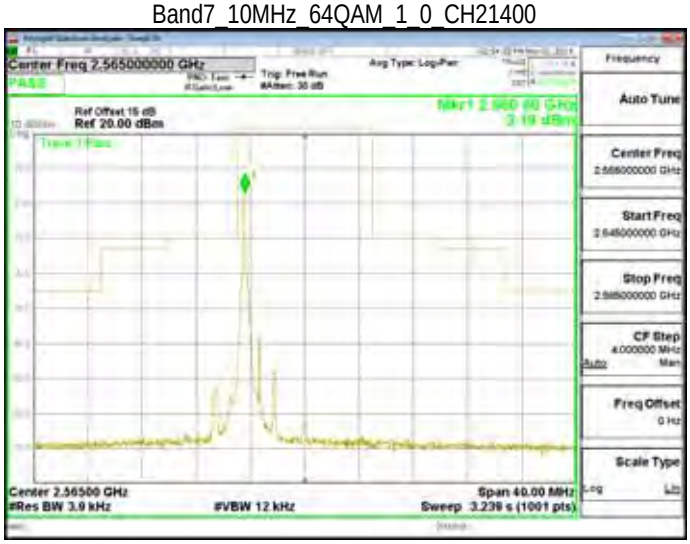


Band7_10MHz_64QAM_1_0_CH21100



Band7_10MHz_16QAM_50_0_CH21400

Band7_10MHz_64QAM_1_0_CH21400



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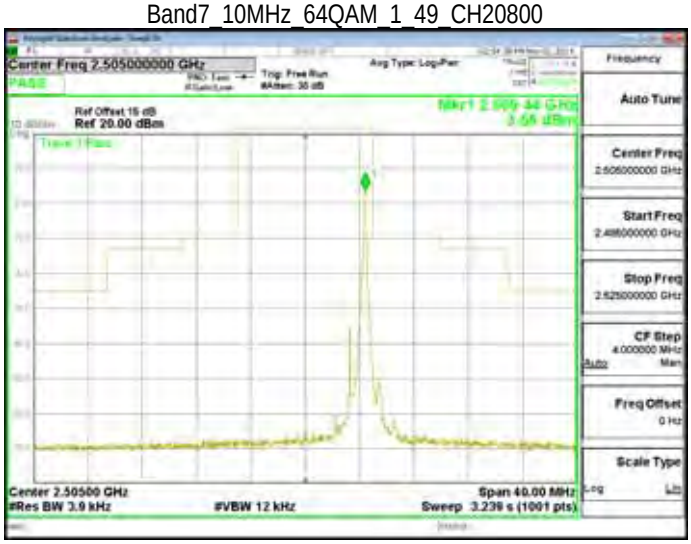
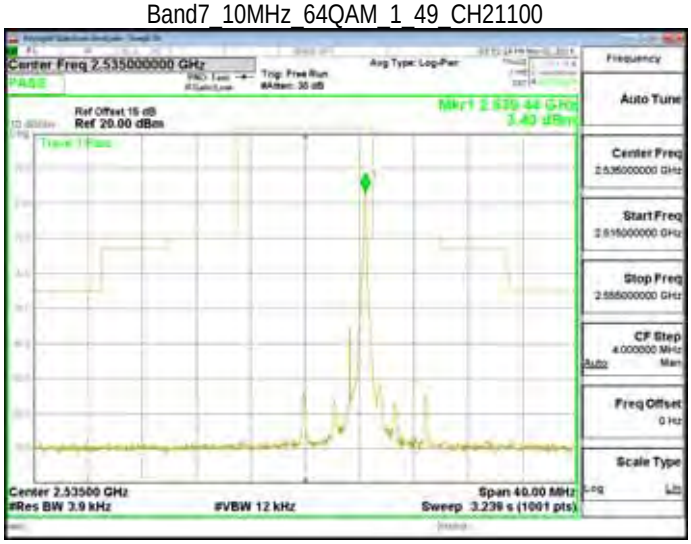
Band7_10MHz_64QAM_1_49_CH20800

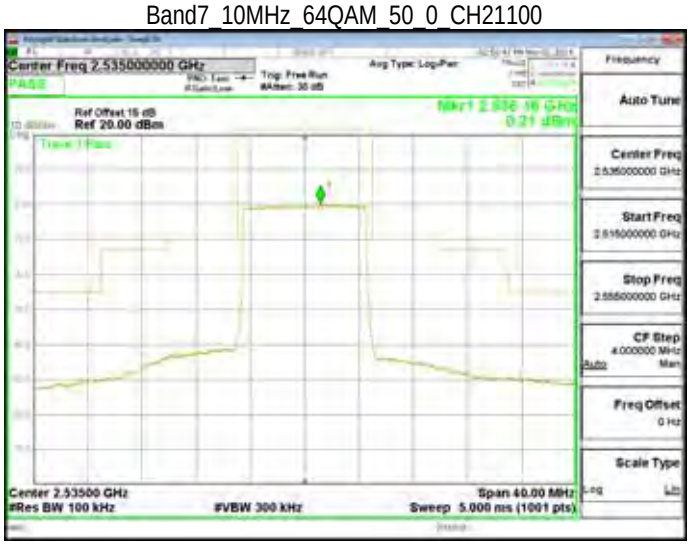


Band7_10MHz_64QAM_50_0_CH20800

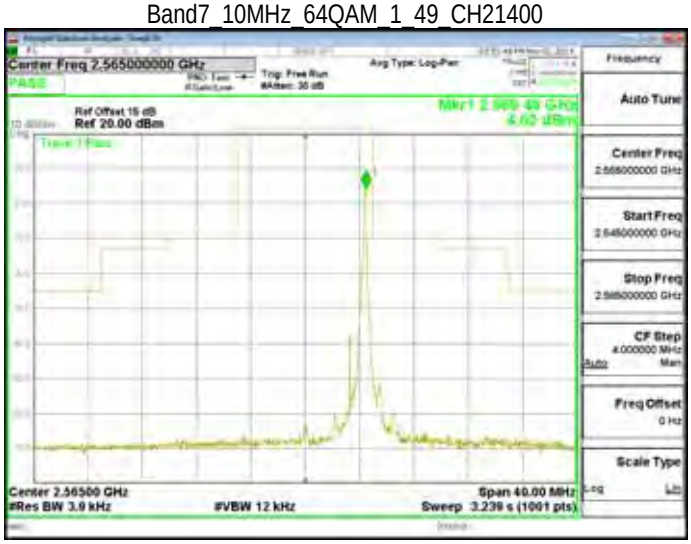
Band7_10MHz_64QAM_1_49_CH21100



Band7_10MHz_64QAM_50_0_CH21100



Band7_10MHz_64QAM_1_49_CH21400



Band7_10MHz_64QAM_50_0_CH21400

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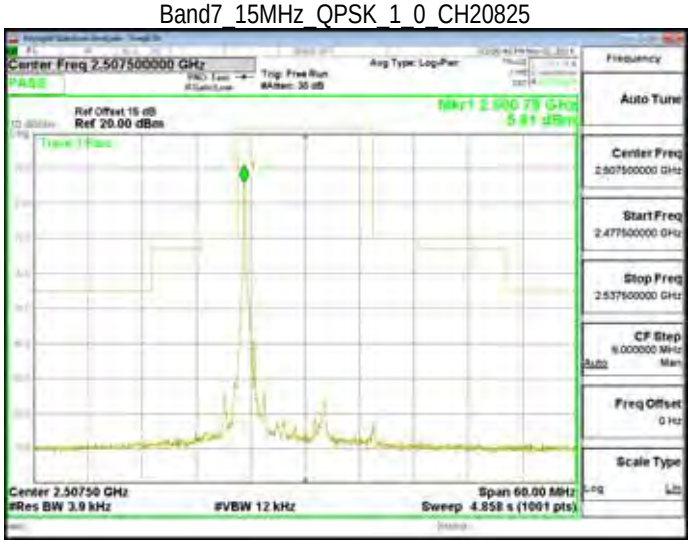
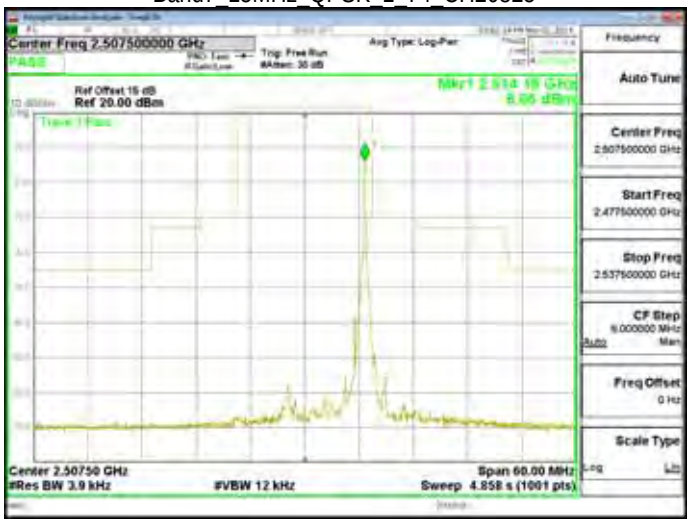
Band7_15MHz_QPSK_1_0_CH20825



Band7_15MHz_QPSK_1_74_CH20825



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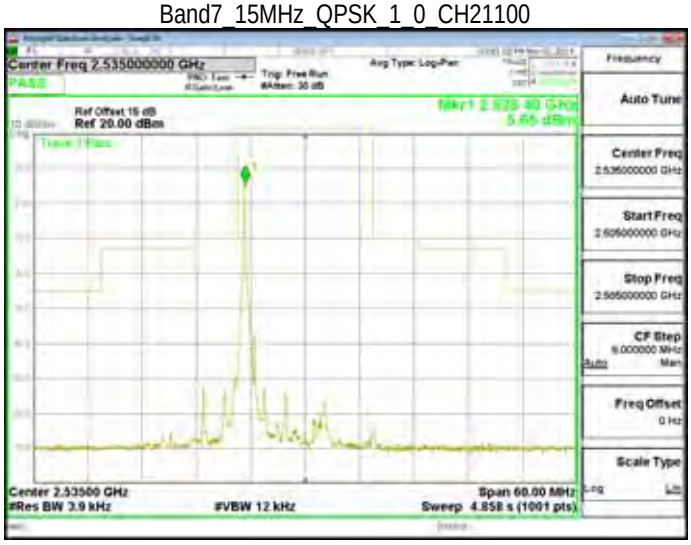
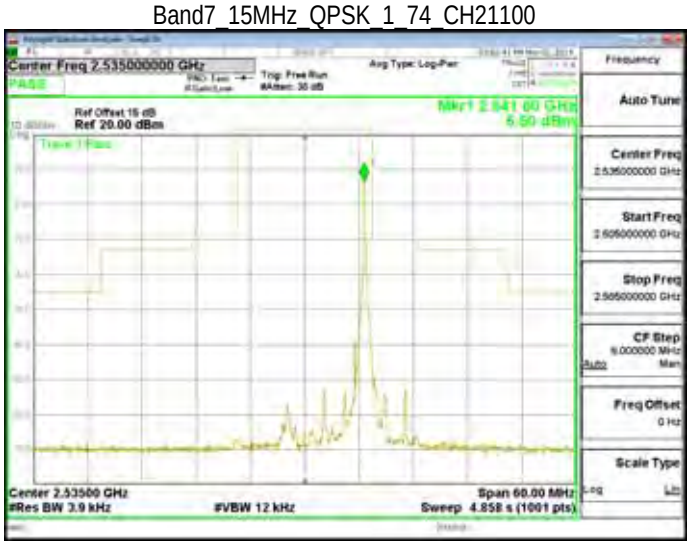
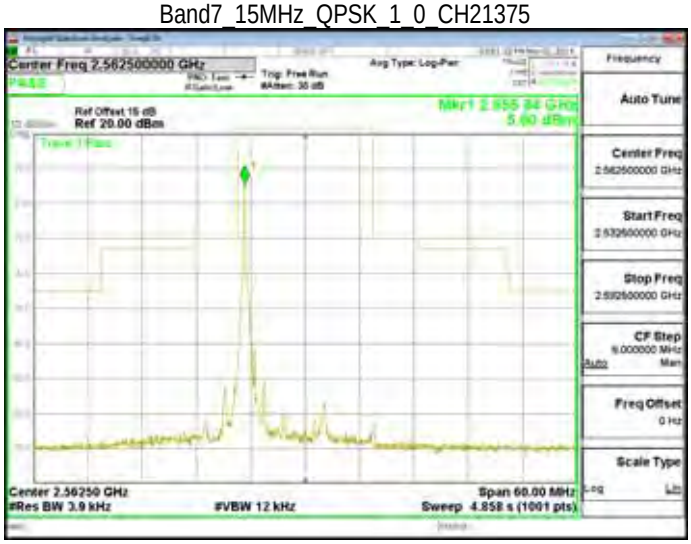


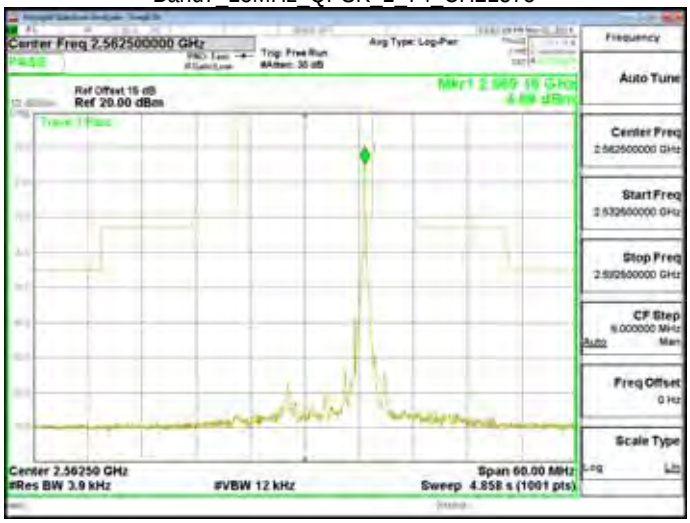
Band7_15MHz_QPSK_1_74_CH21100



Band7_15MHz_QPSK_1_0_CH21375



Band7_15MHz_QPSK_1_74_CH21375



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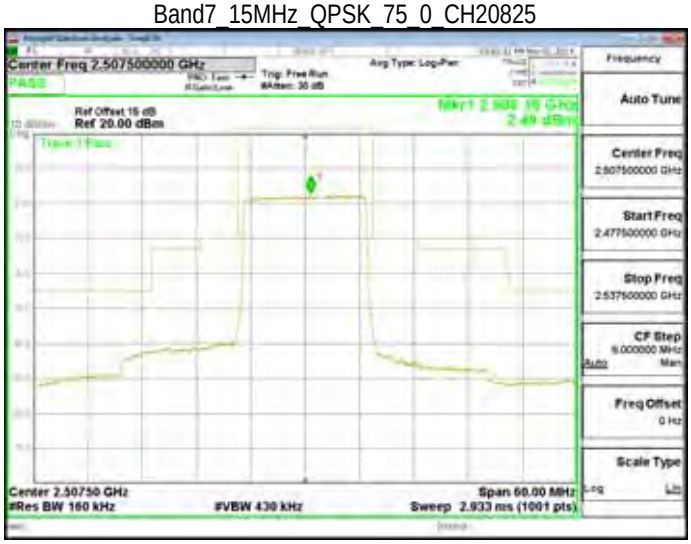
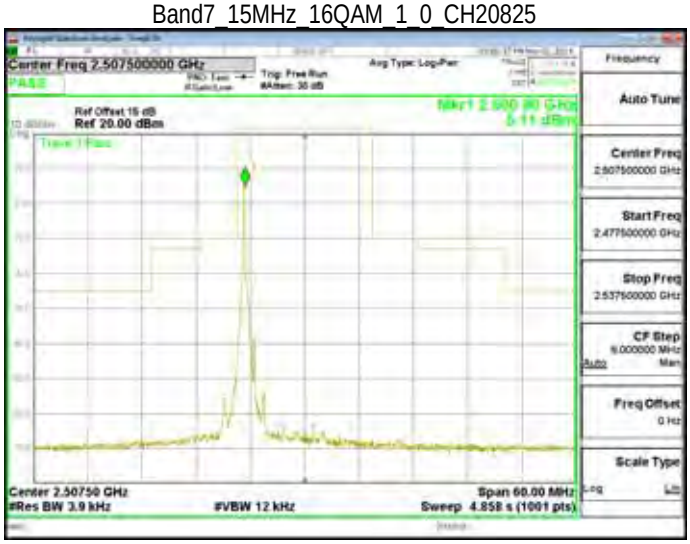
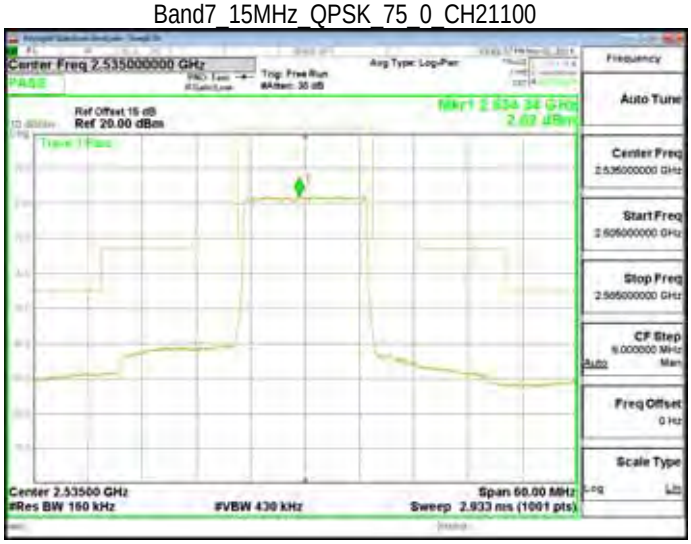
Band7_15MHz_QPSK_75_0_CH20825



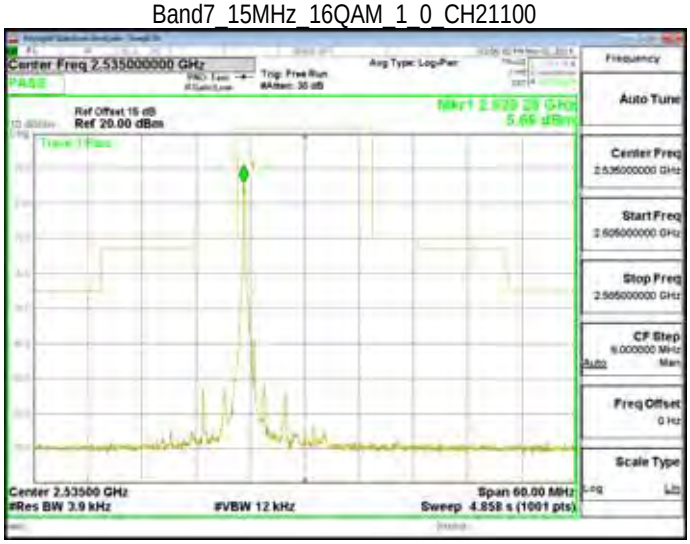
Band7_15MHz_16QAM_1_0_CH20825



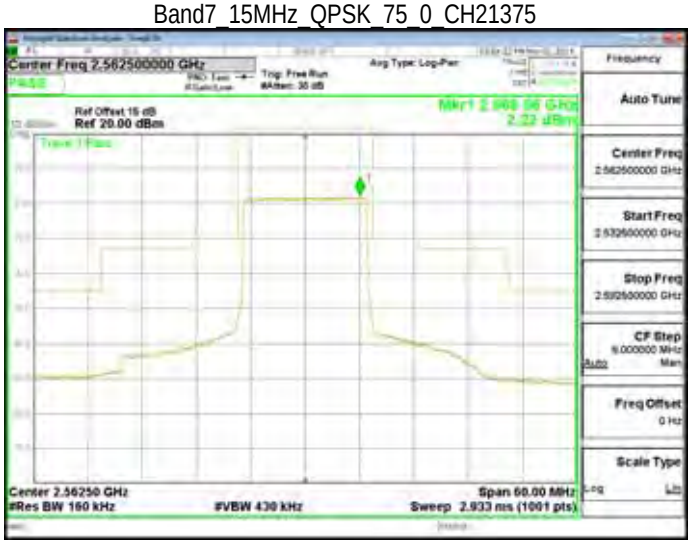
Band7_15MHz_QPSK_75_0_CH21100



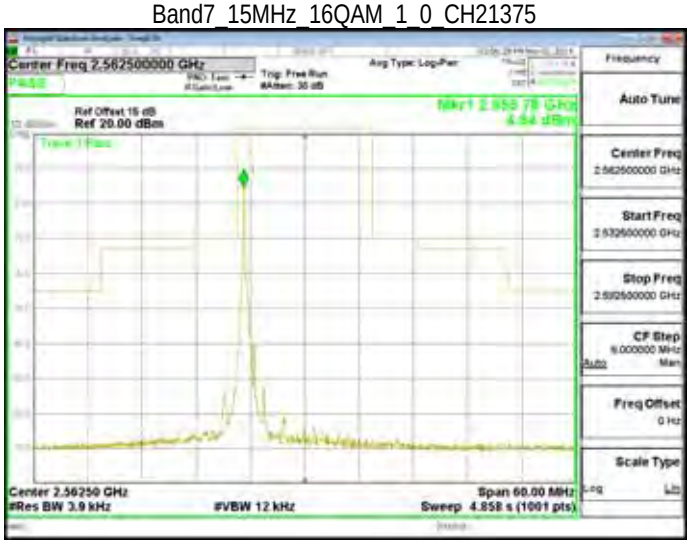
Band7_15MHz_16QAM_1_0_CH21100



Band7_15MHz_QPSK_75_0_CH21375



Band7_15MHz_16QAM_1_0_CH21375



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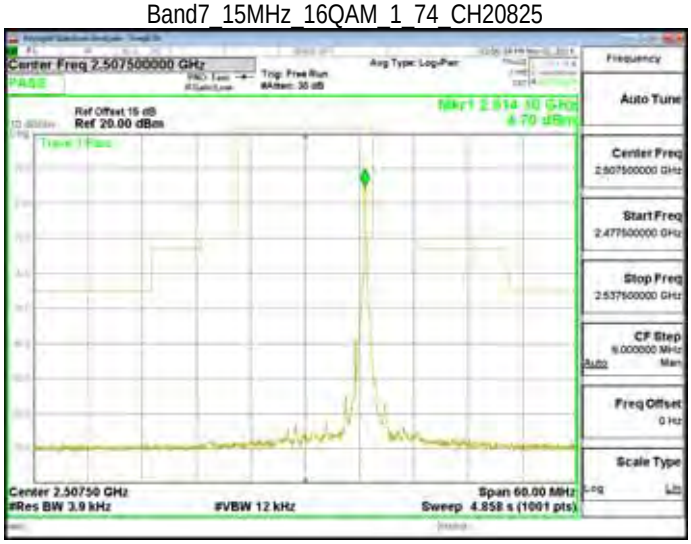
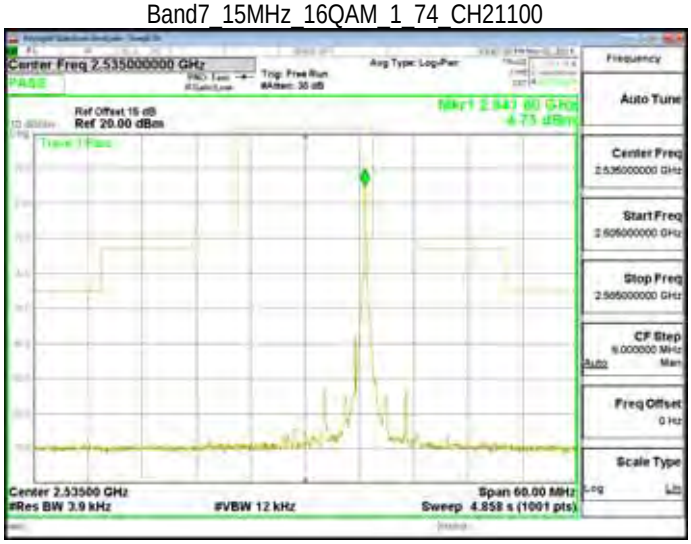
Band7_15MHz_16QAM_1_74_CH20825



Band7_15MHz_16QAM_75_0_CH20825

Band7_15MHz_16QAM_1_74_CH21100



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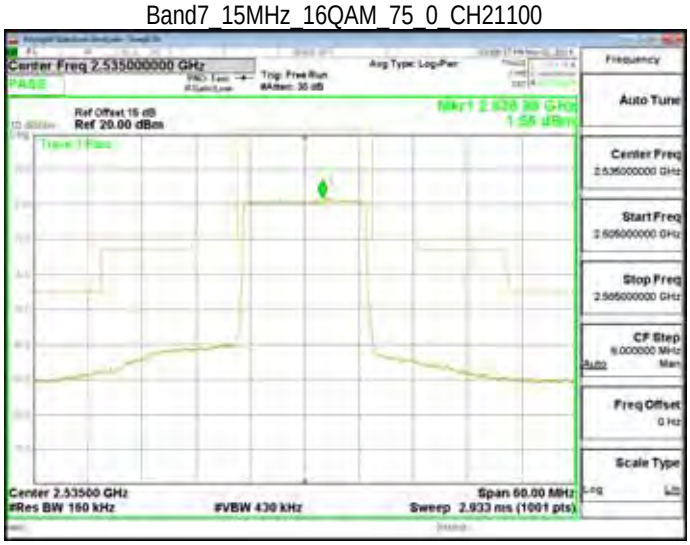
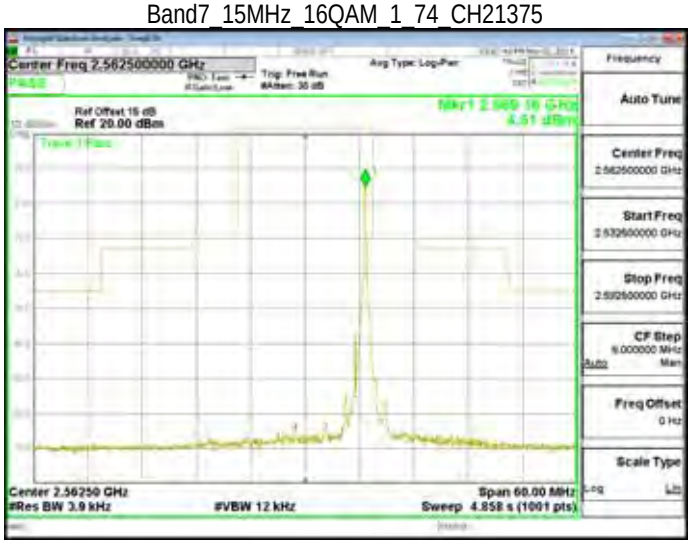


Band7_15MHz_16QAM_1_74_CH21375



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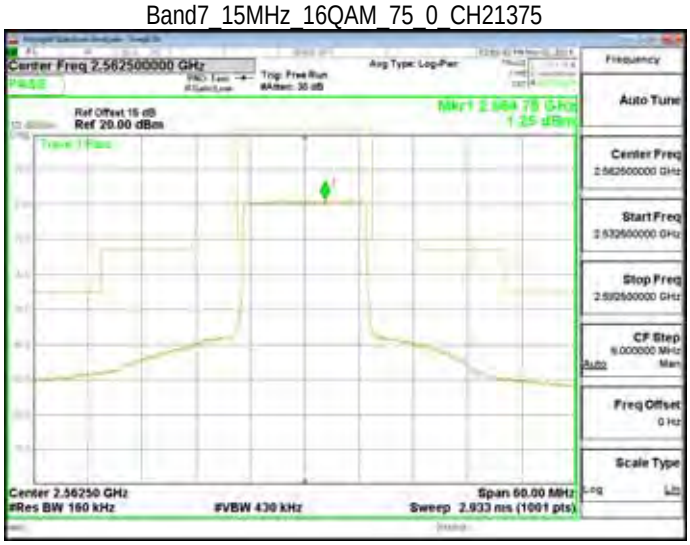

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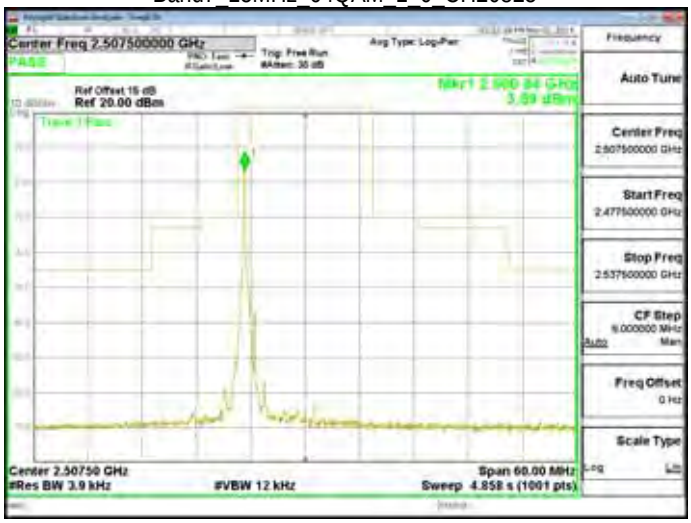
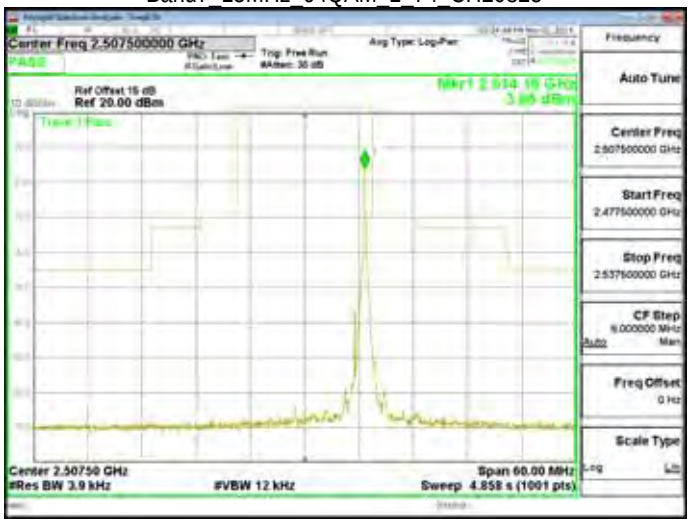
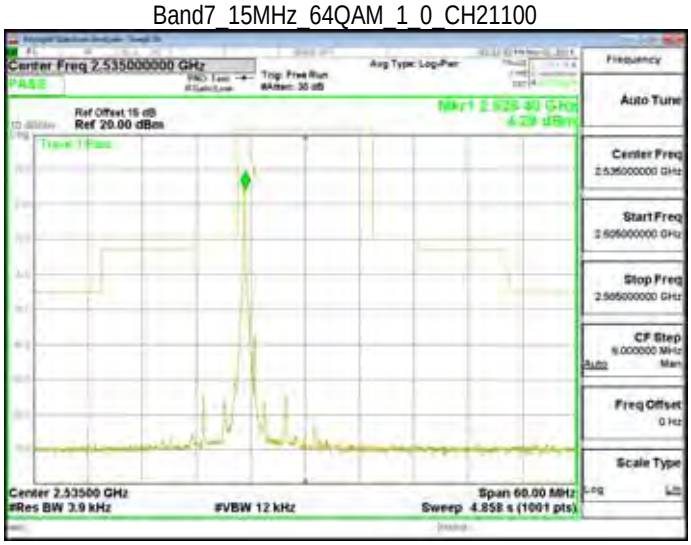
Band7_15MHz_64QAM_1_0_CH20825



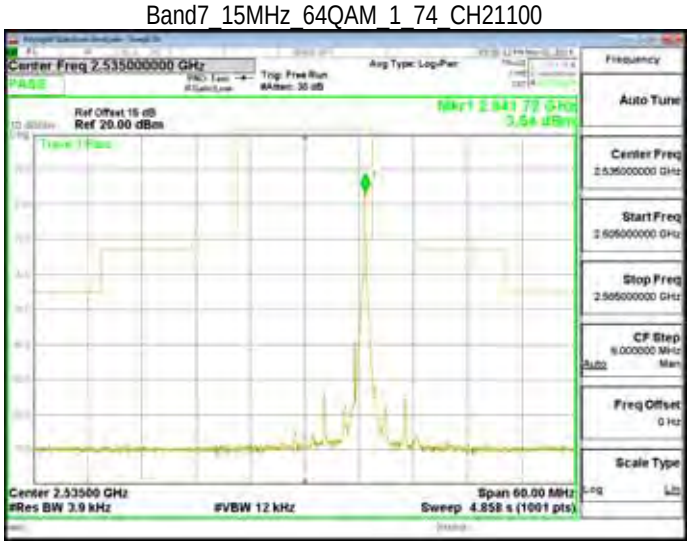
Band7_15MHz_64QAM_1_74_CH20825



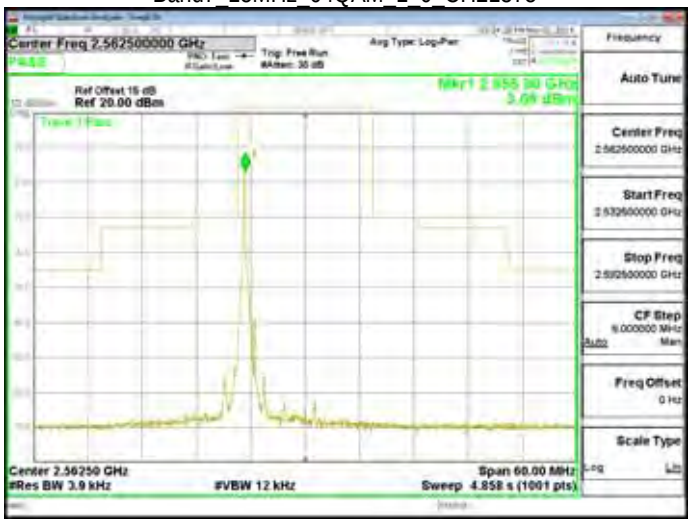
Band7_15MHz_64QAM_1_0_CH21100



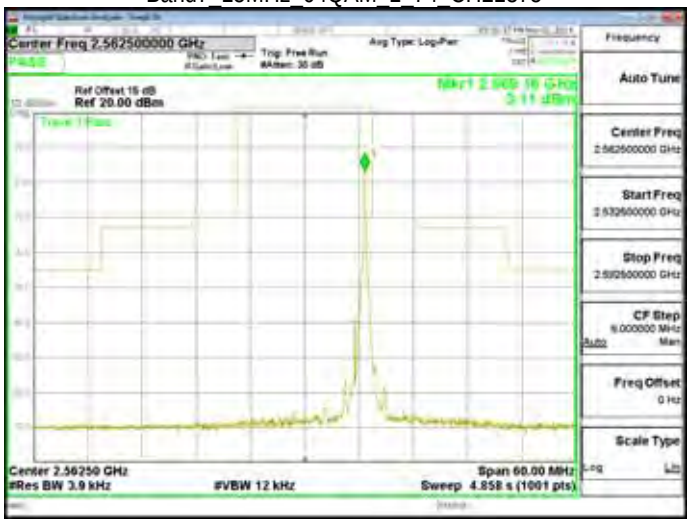
Band7_15MHz_64QAM_1_74_CH21100



Band7_15MHz_64QAM_1_0_CH21375



Band7_15MHz_64QAM_1_74_CH21375



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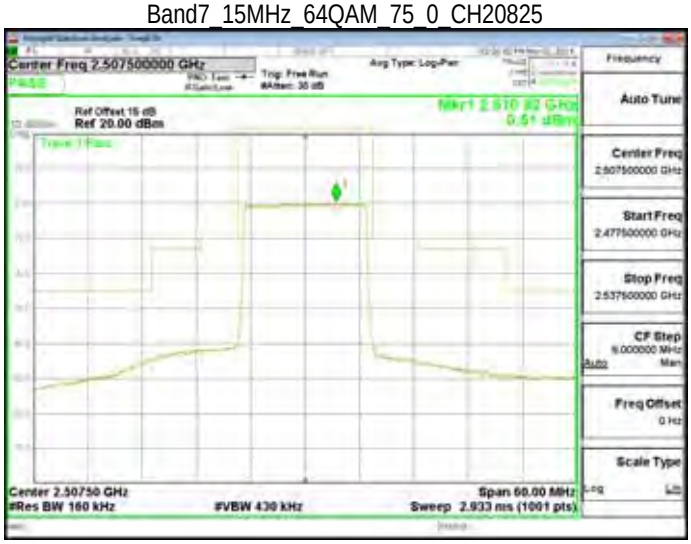
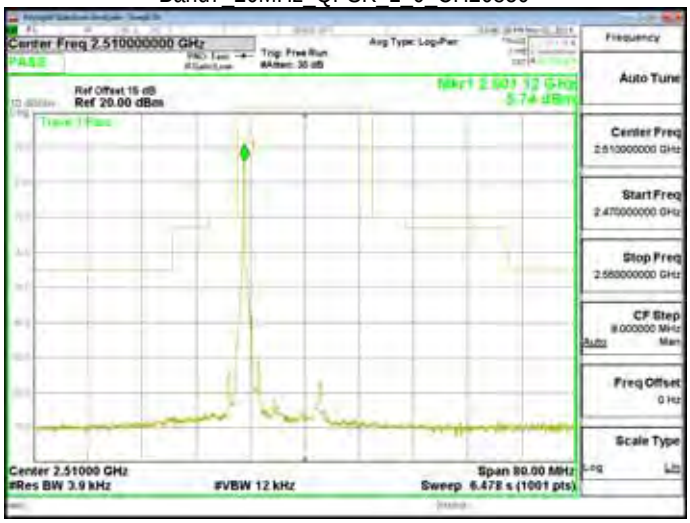
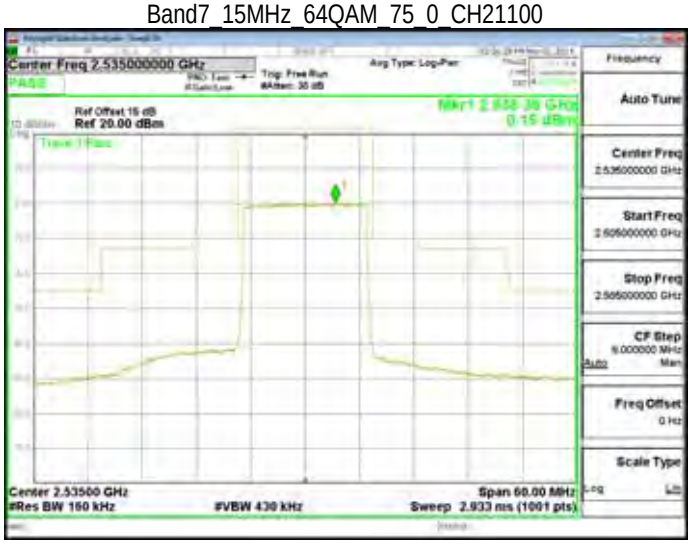
Band7_15MHz_64QAM_75_0_CH20825



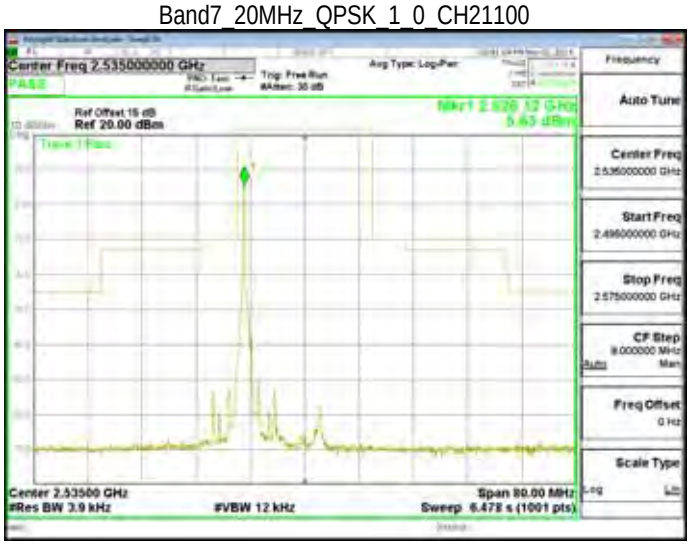
Band7_20MHz_QPSK_1_0_CH20850



Band7_15MHz_64QAM_75_0_CH21100



Band7_20MHz_QPSK_1_0_CH21100



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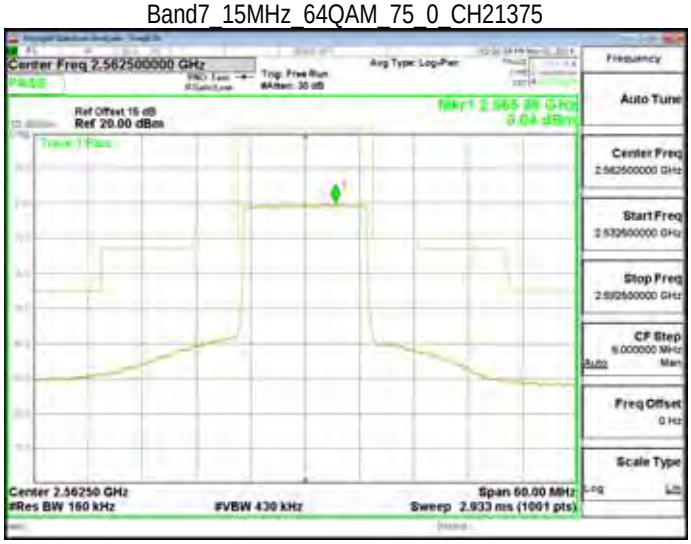
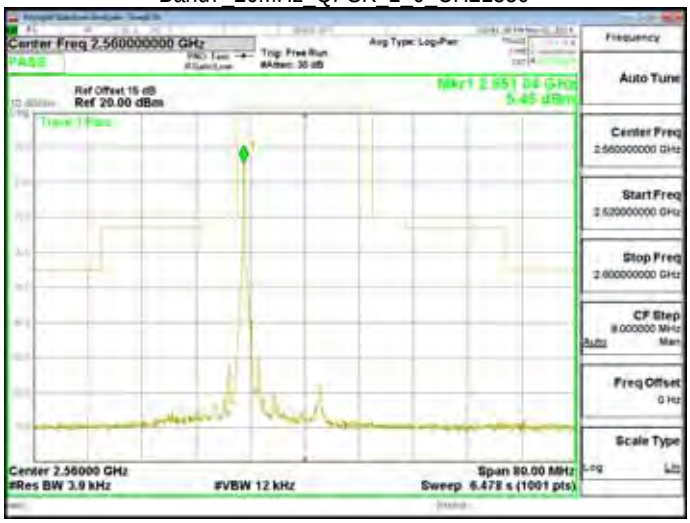


Band7_20MHz_QPSK_1_0_CH21350



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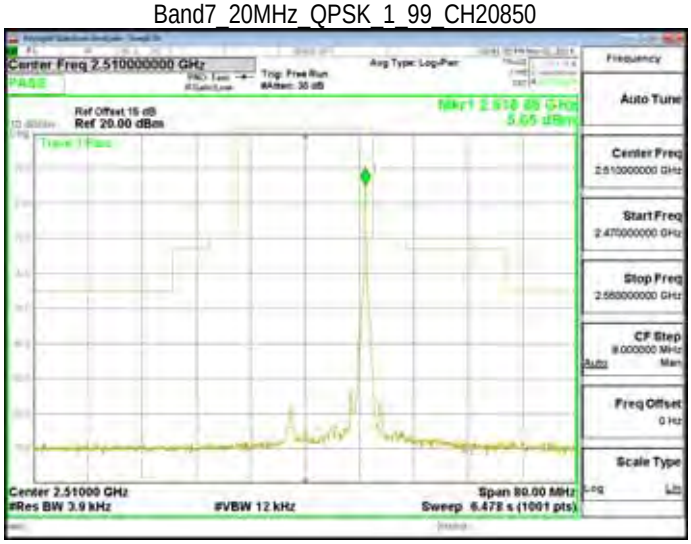
Band7_20MHz_QPSK_1_99_CH20850



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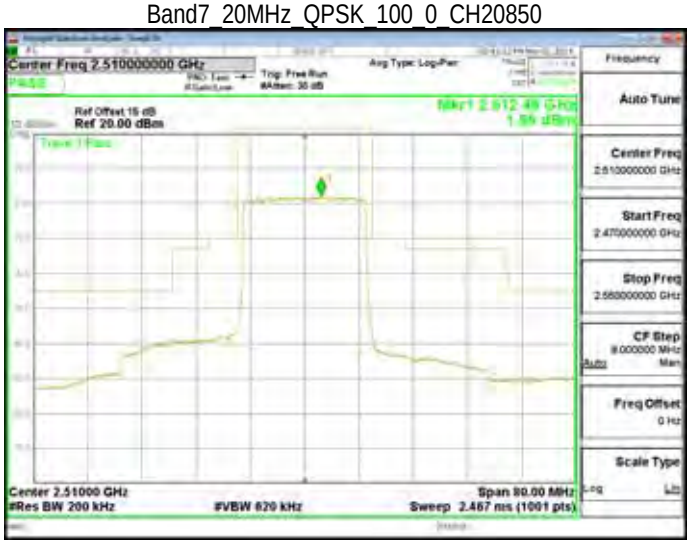
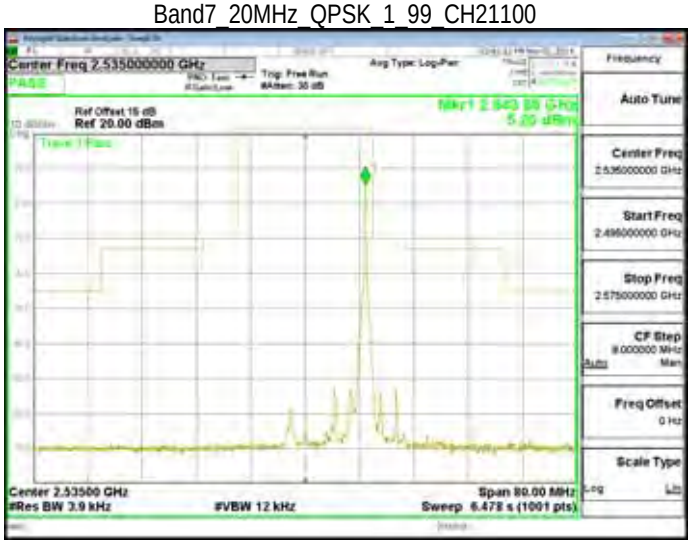


Band7_20MHz_QPSK_1_99_CH21100



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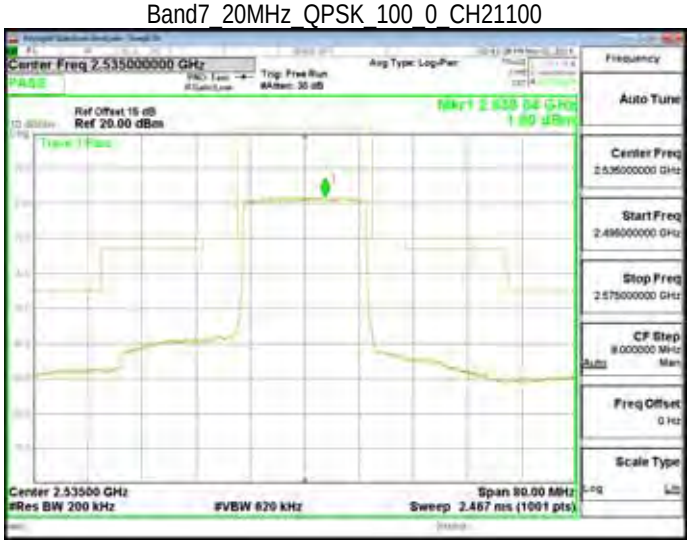
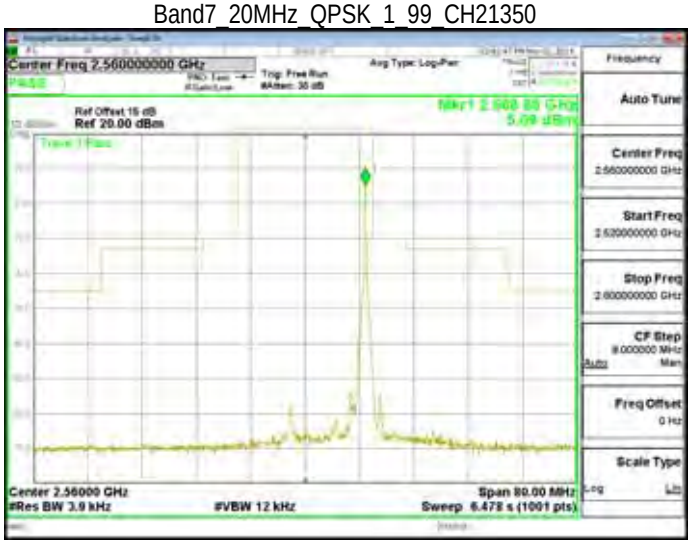
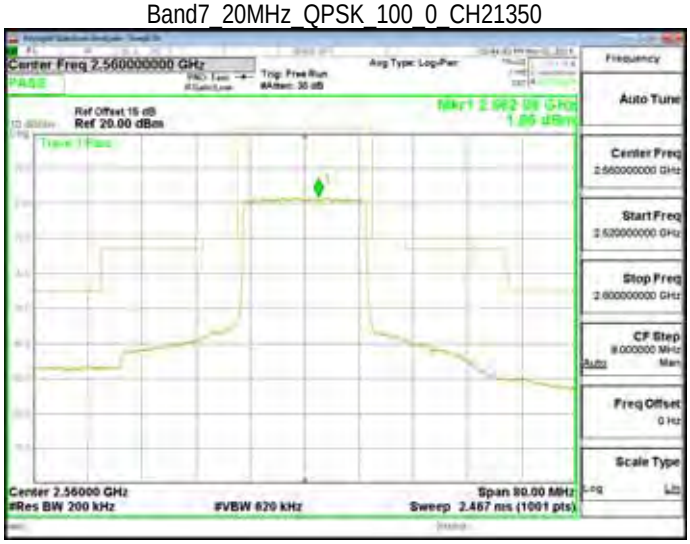


Band7_20MHz_QPSK_1_99_CH21350



Band7_20MHz_QPSK_100_0_CH21350



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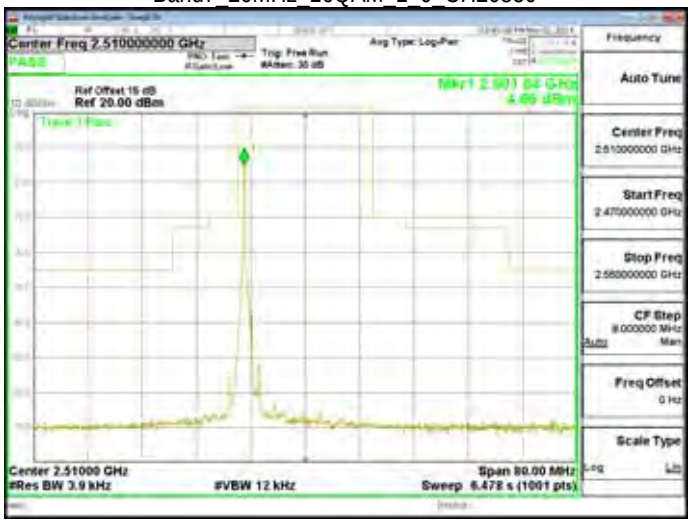
Band7_20MHz_16QAM_1_0_CH20850



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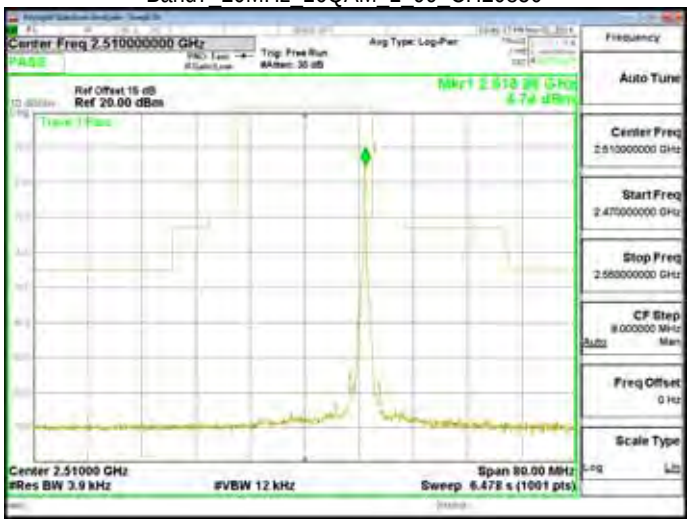
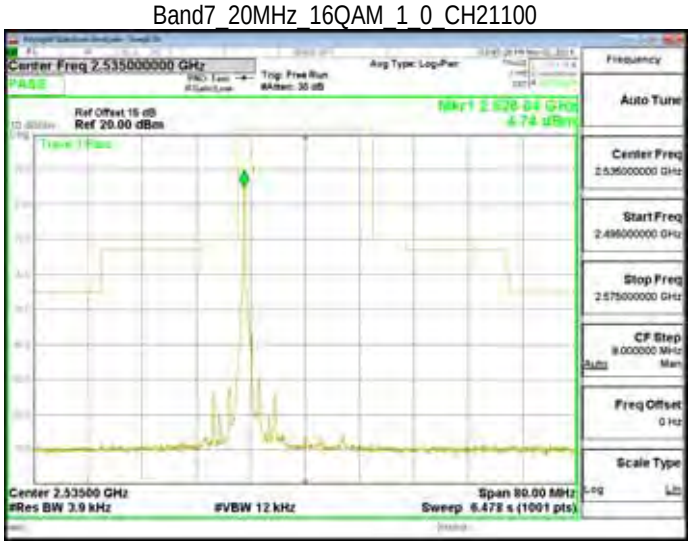
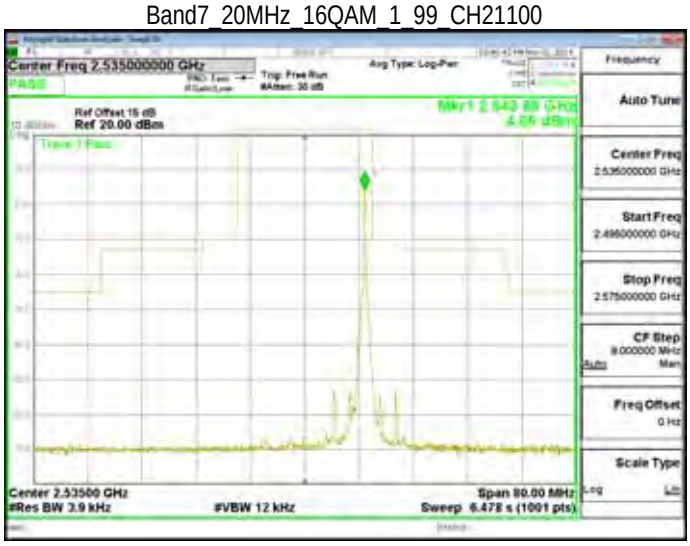


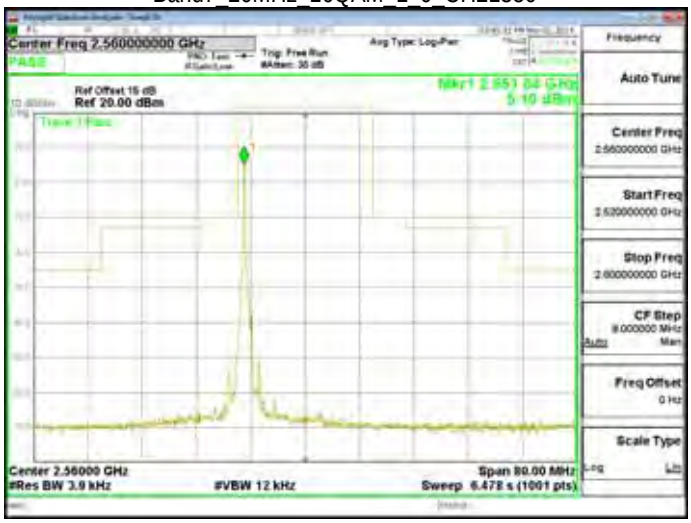
Band7_20MHz_16QAM_1_0_CH21100



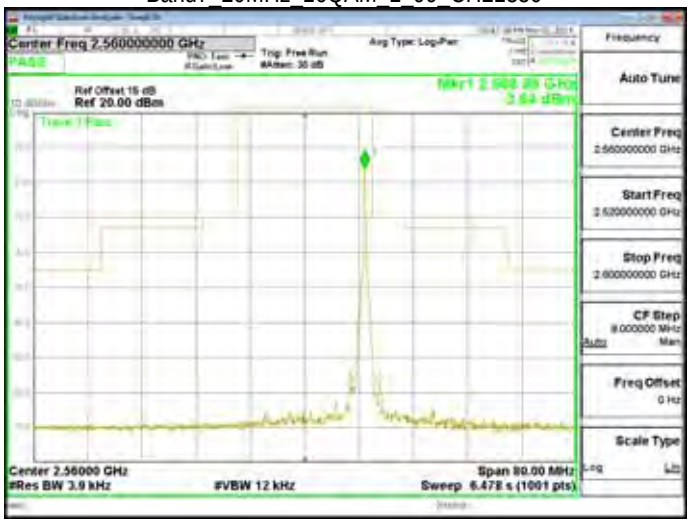
Band7_20MHz_16QAM_1_99_CH21100



Band7_20MHz_16QAM_1_0_CH21350



Band7_20MHz_16QAM_1_99_CH21350



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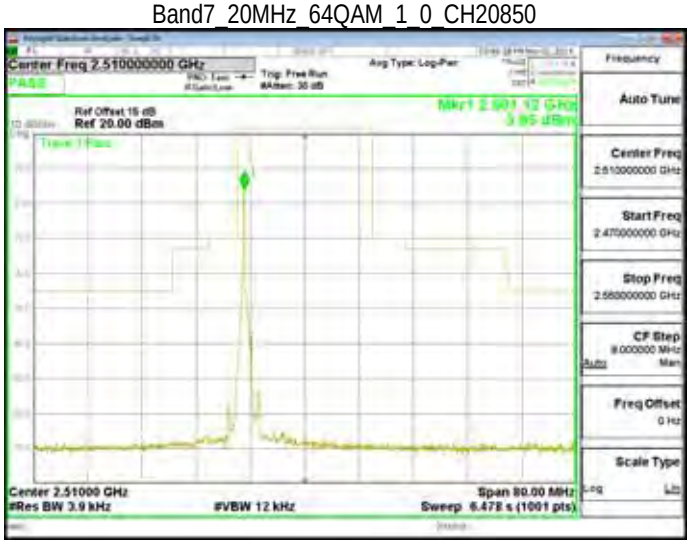
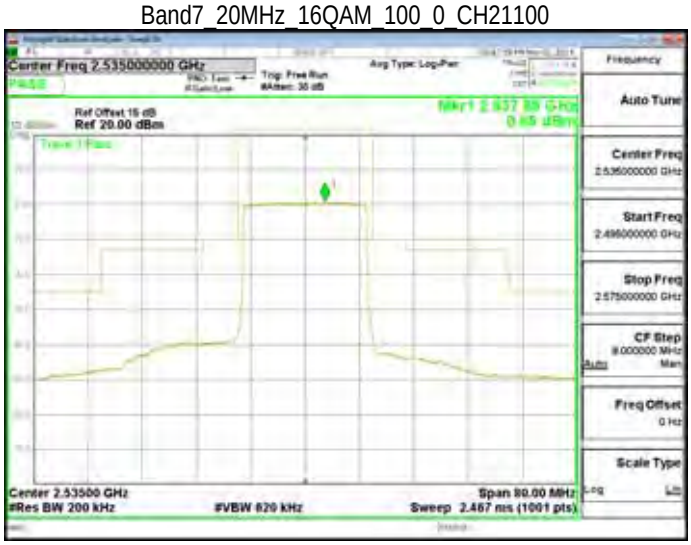
Band7_20MHz_16QAM_100_0_CH20850

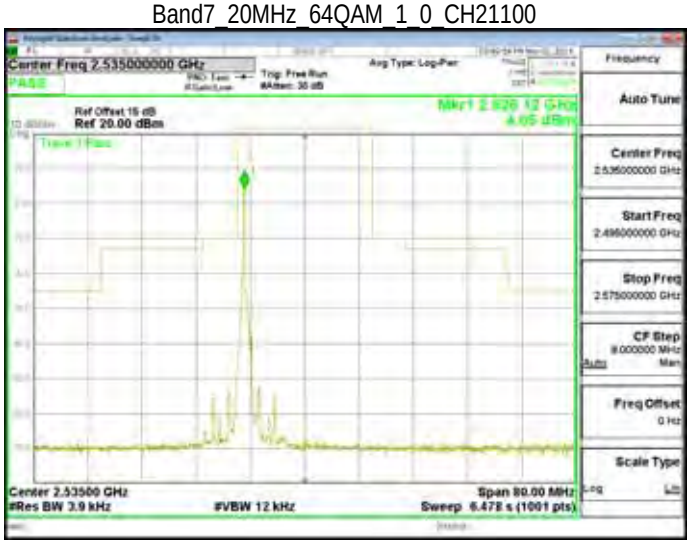
Band7_20MHz_64QAM_1_0_CH20850



Band7_20MHz_16QAM_100_0_CH21100

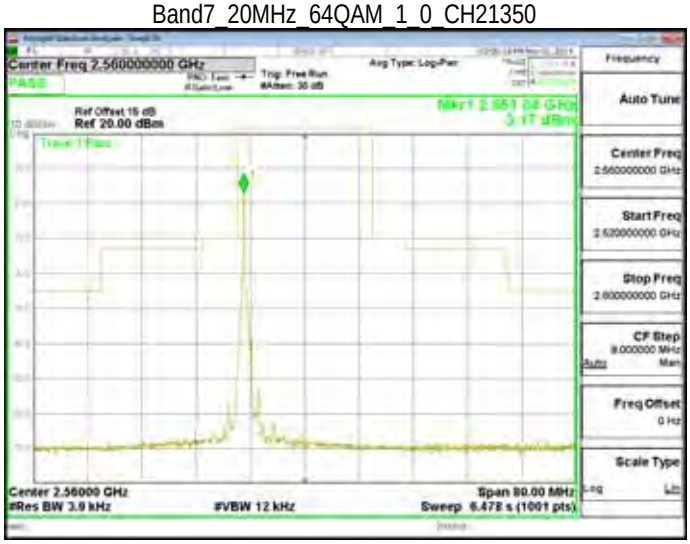


Band7_20MHz_64QAM_1_0_CH21100



Band7_20MHz_16QAM_100_0_CH21350

Band7_20MHz_64QAM_1_0_CH21350



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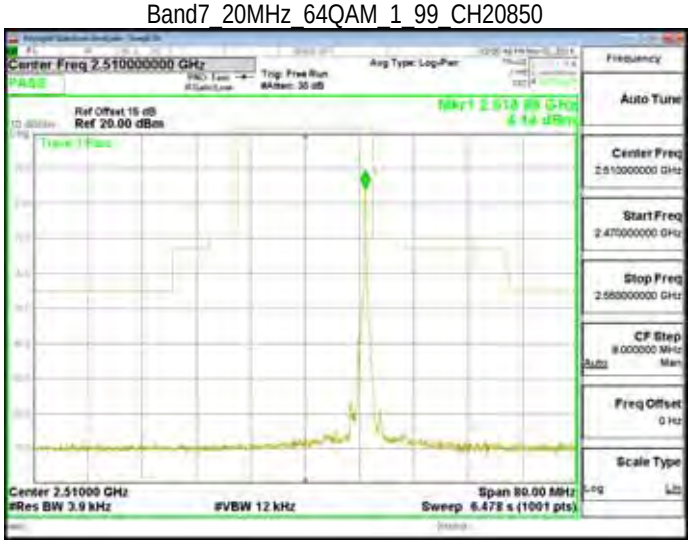
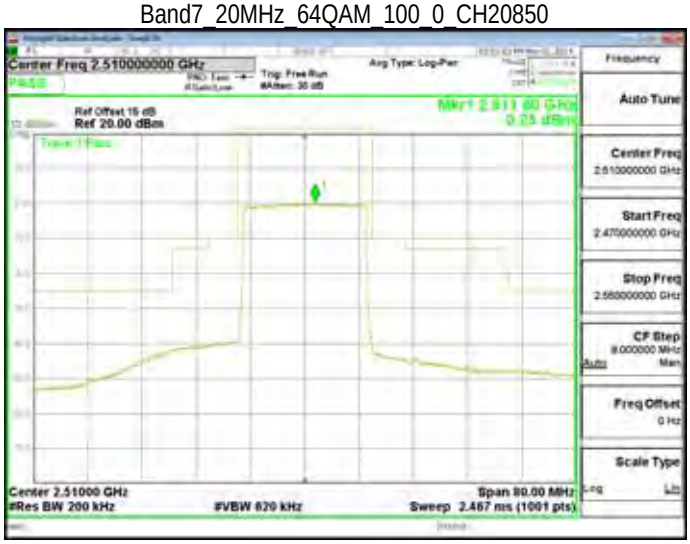
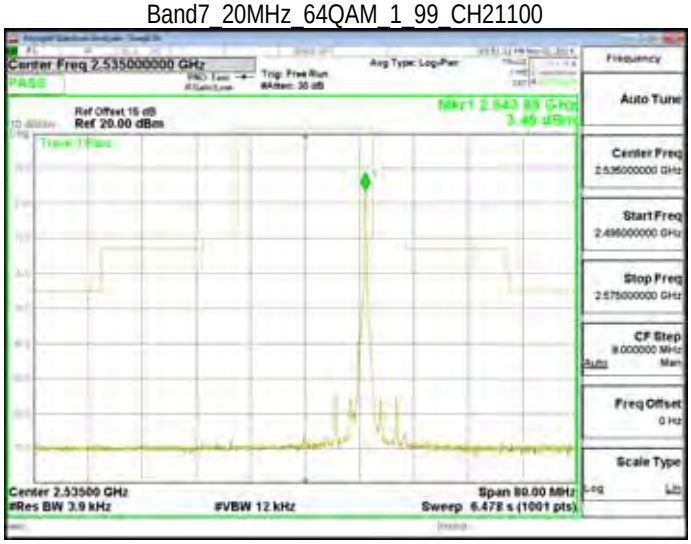
Band7_20MHz_64QAM_1_99_CH20850



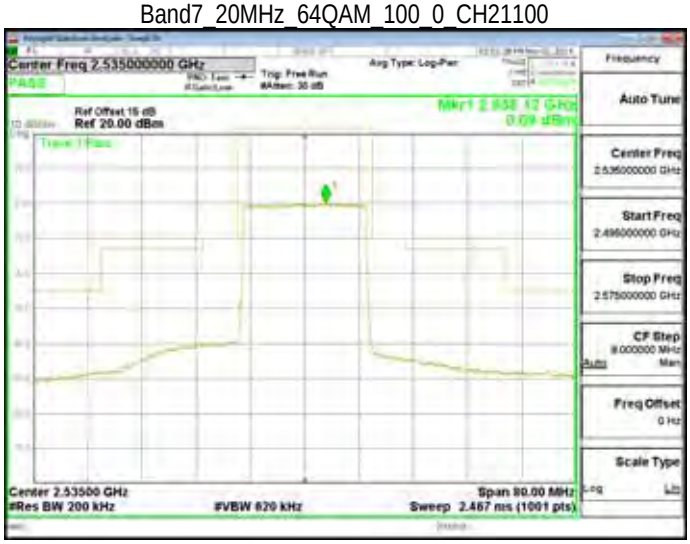
Band7_20MHz_64QAM_100_0_CH20850



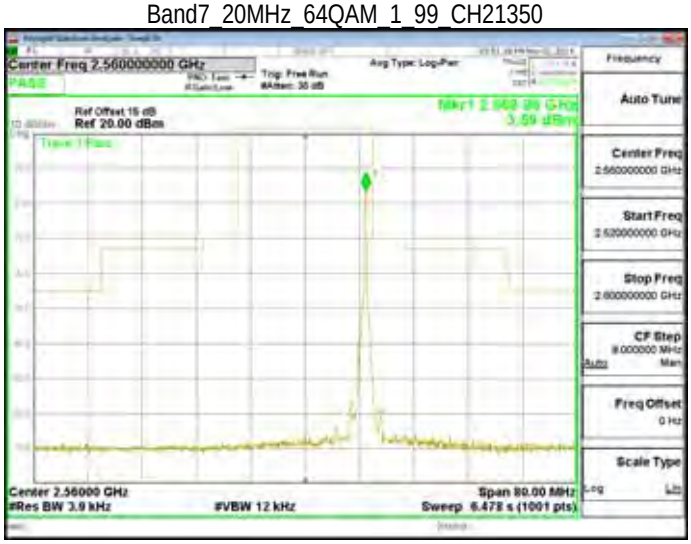
Band7_20MHz_64QAM_1_99_CH21100



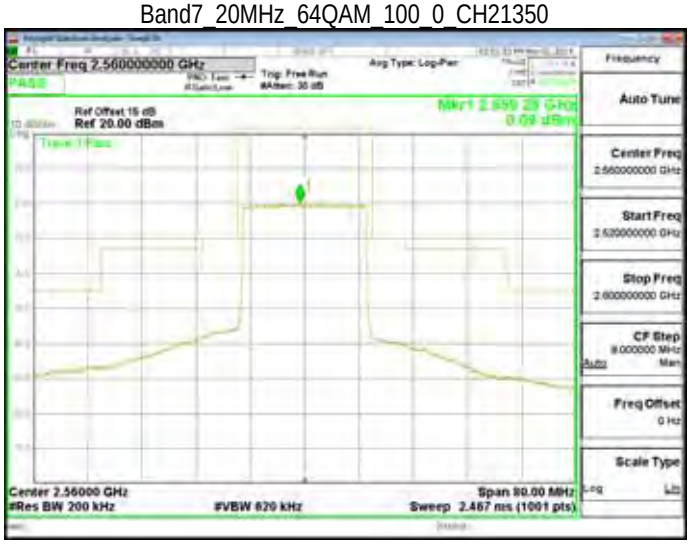
Band7_20MHz_64QAM_100_0_CH21100



Band7_20MHz_64QAM_1_99_CH21350



Band7_20MHz_64QAM_100_0_CH21350



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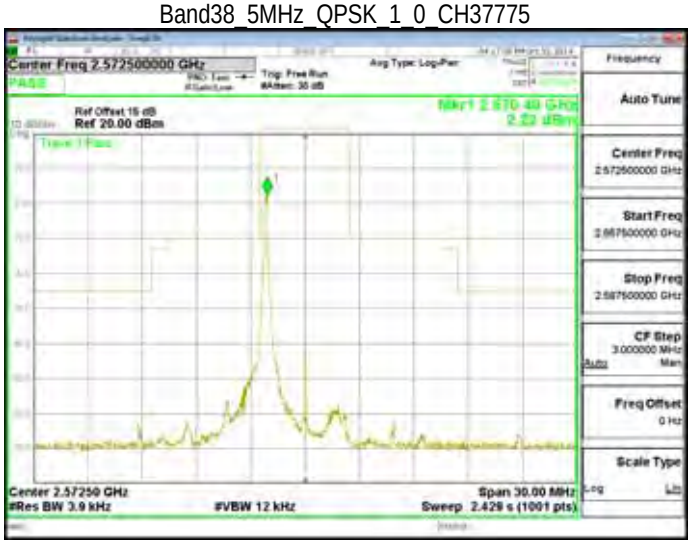
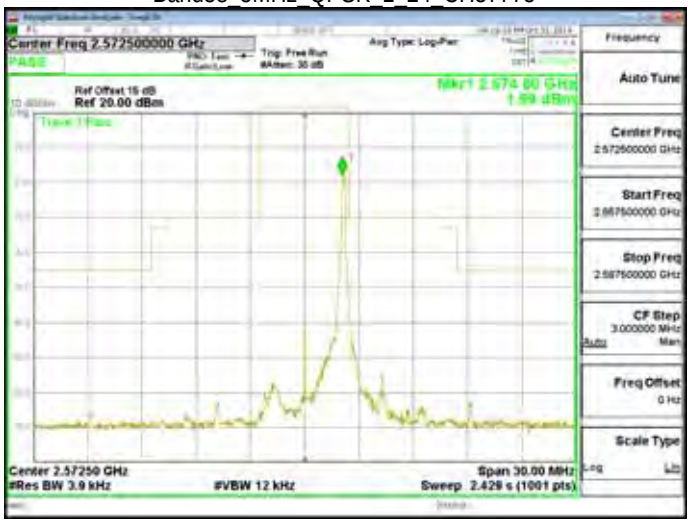
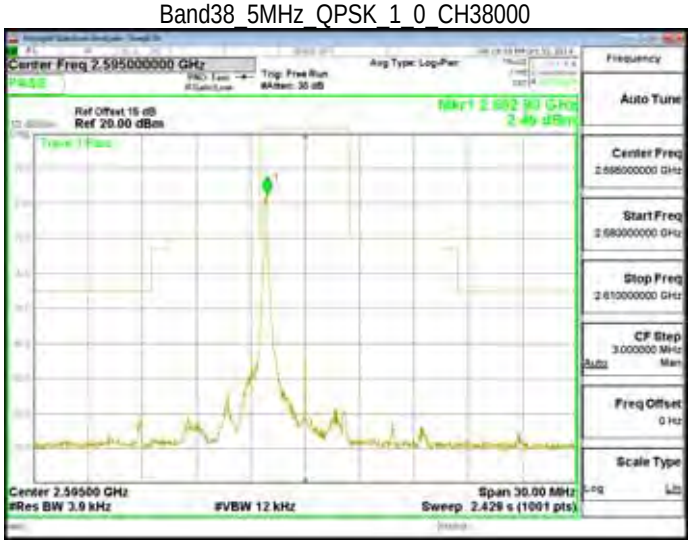
Band38_5MHz_QPSK_1_0_CH37775



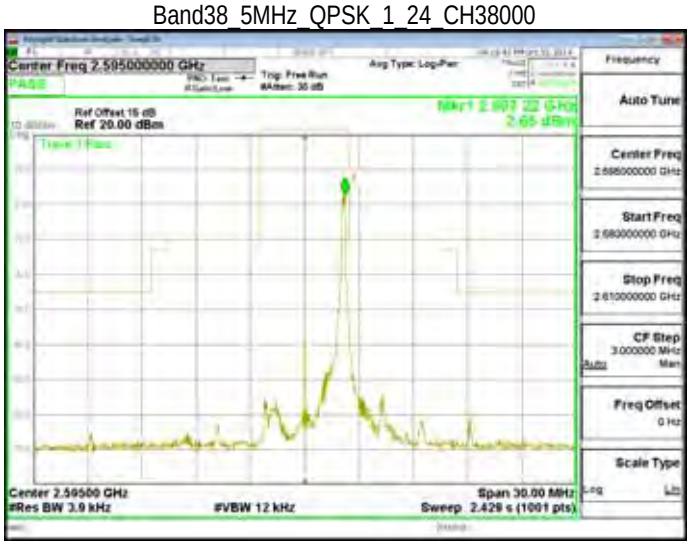
Band38_5MHz_QPSK_1_24_CH37775



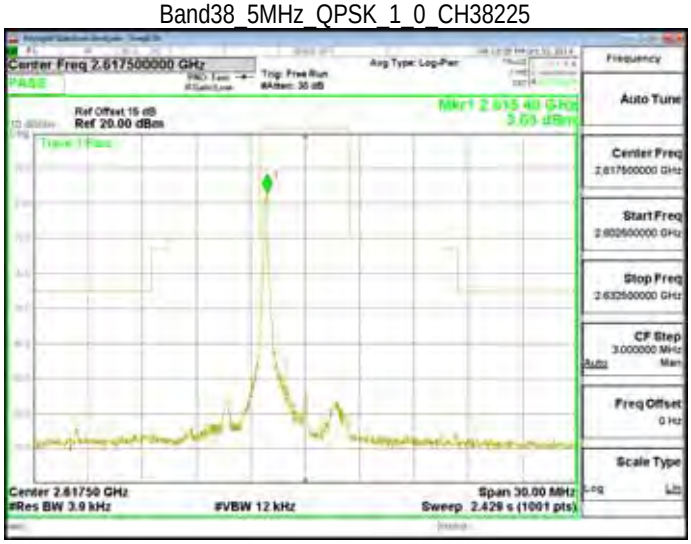
Band38_5MHz_QPSK_1_0_CH38000



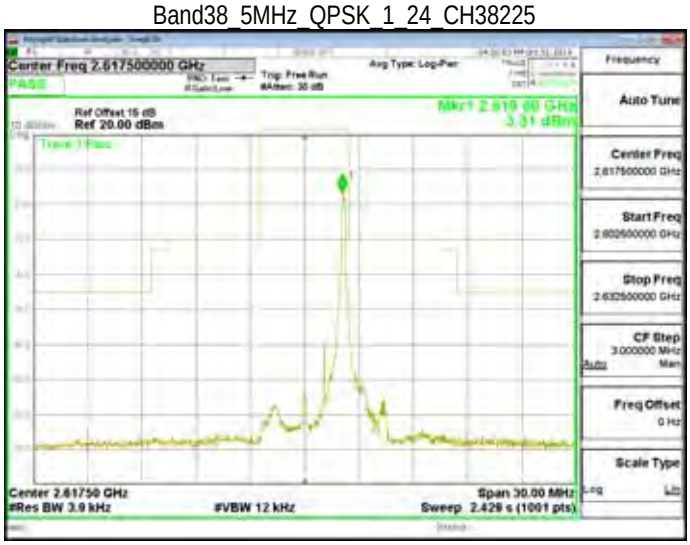
Band38_5MHz_QPSK_1_24_CH38000



Band38_5MHz_QPSK_1_0_CH38225



Band38_5MHz_QPSK_1_24_CH38225



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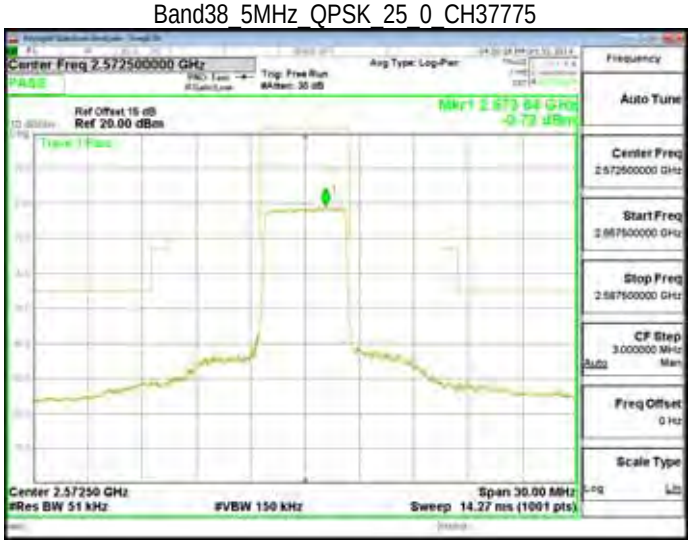
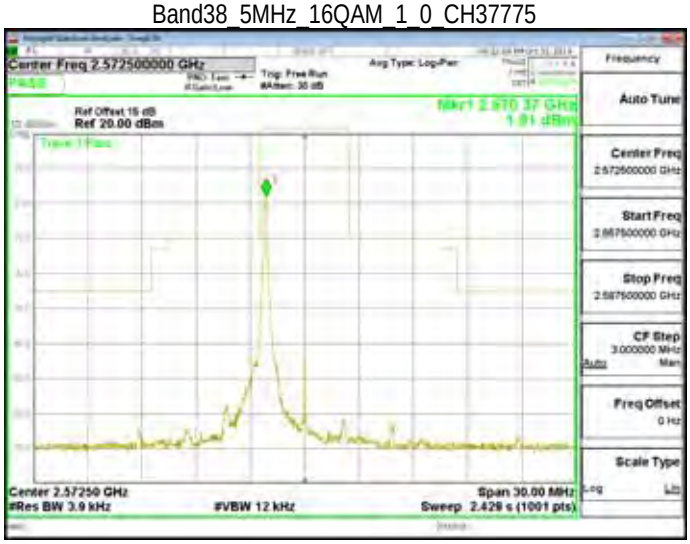
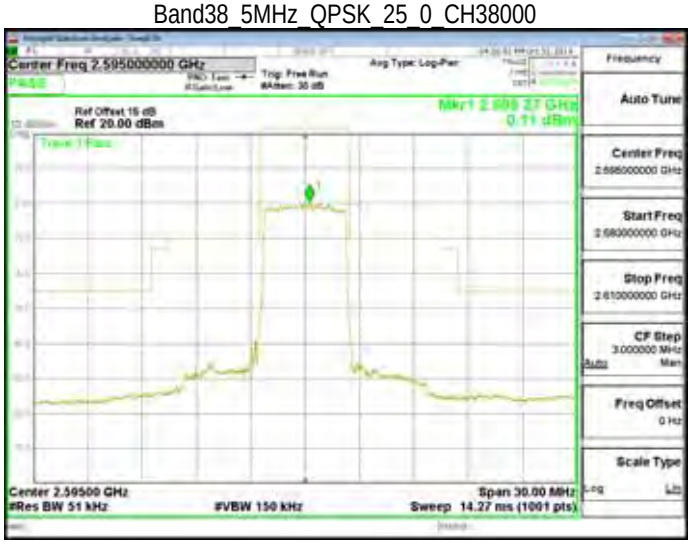
Band38_5MHz_QPSK_25_0_CH37775



Band38_5MHz_16QAM_1_0_CH37775



Band38_5MHz_QPSK_25_0_CH38000



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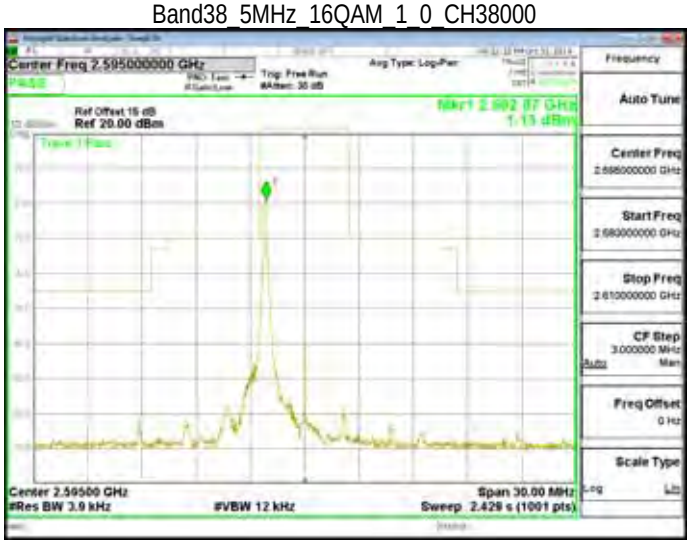
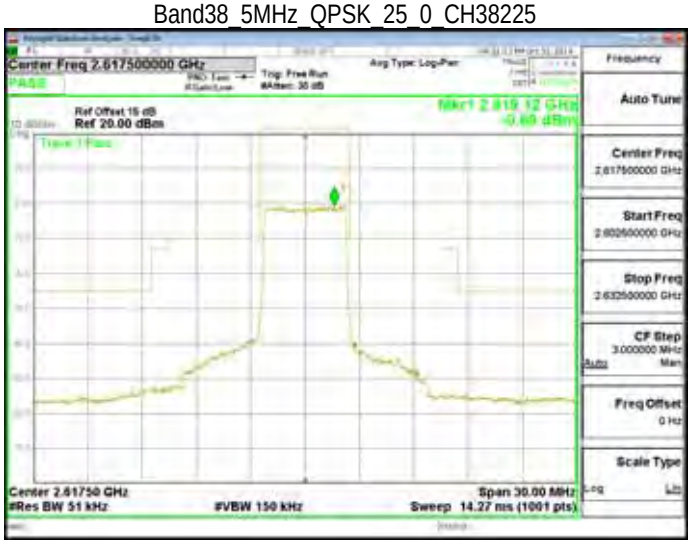
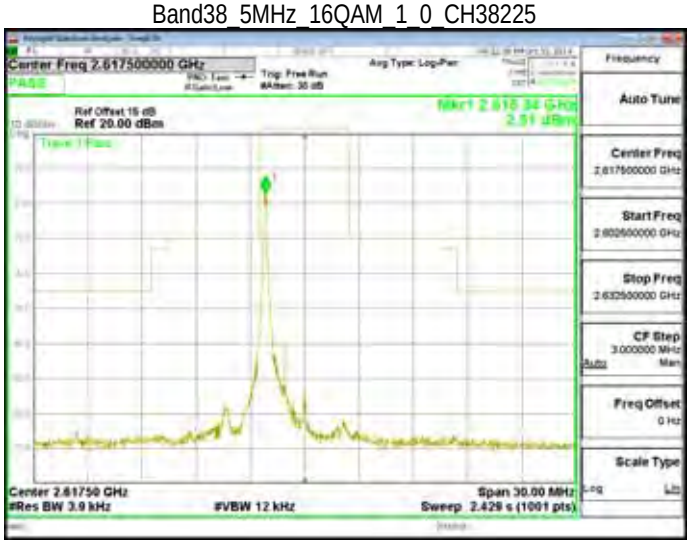


Band38_5MHz_QPSK_25_0_CH38225



Band38_5MHz_16QAM_1_0_CH38225



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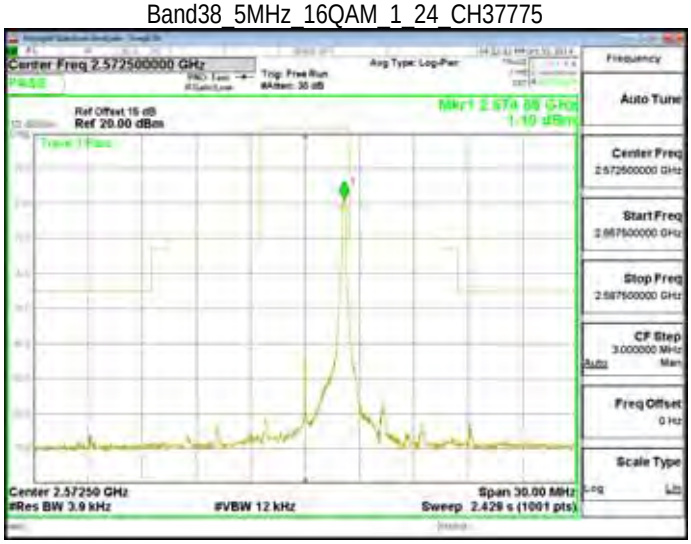
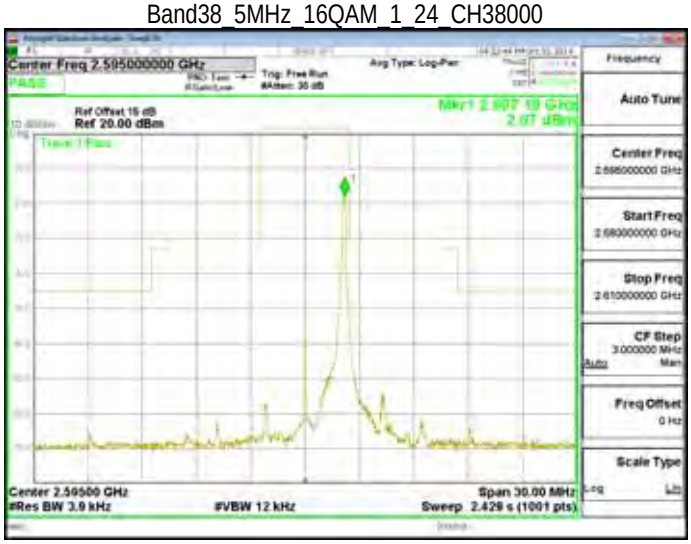
Band38_5MHz_16QAM_1_24_CH37775



Band38_5MHz_16QAM_25_0_CH37775

Band38_5MHz_16QAM_1_24_CH38000



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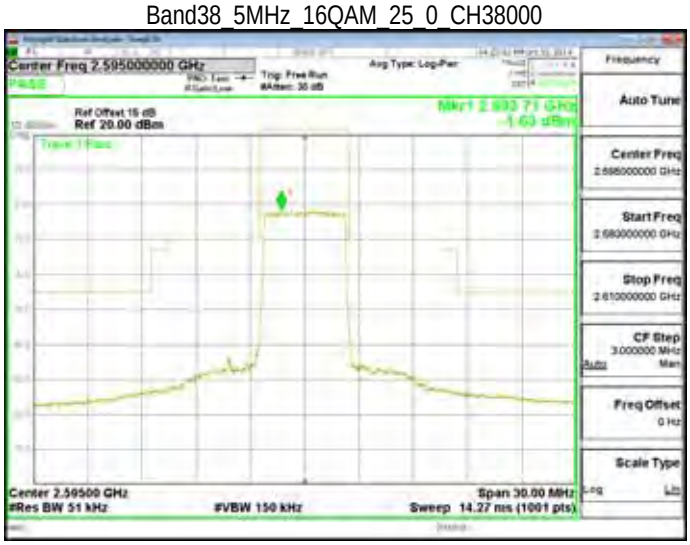
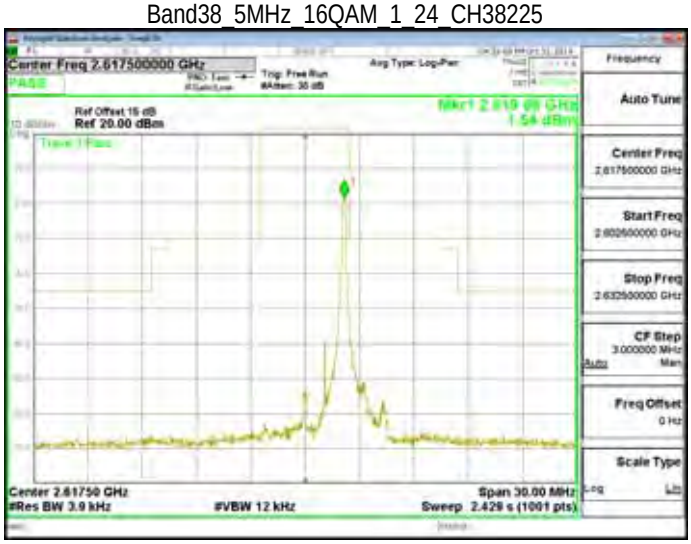


Band38_5MHz_16QAM_1_24_CH38225



Band38_5MHz_16QAM_25_0_CH38225

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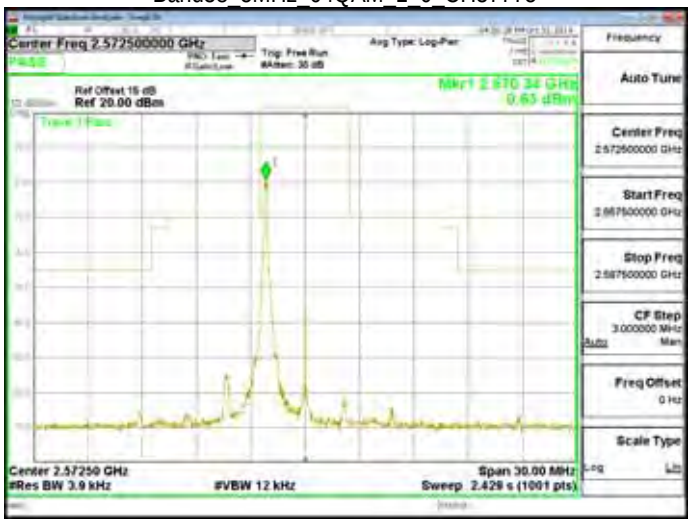
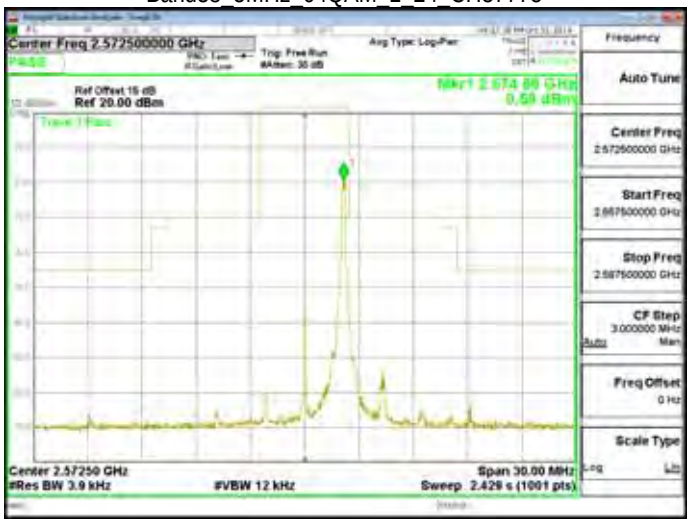
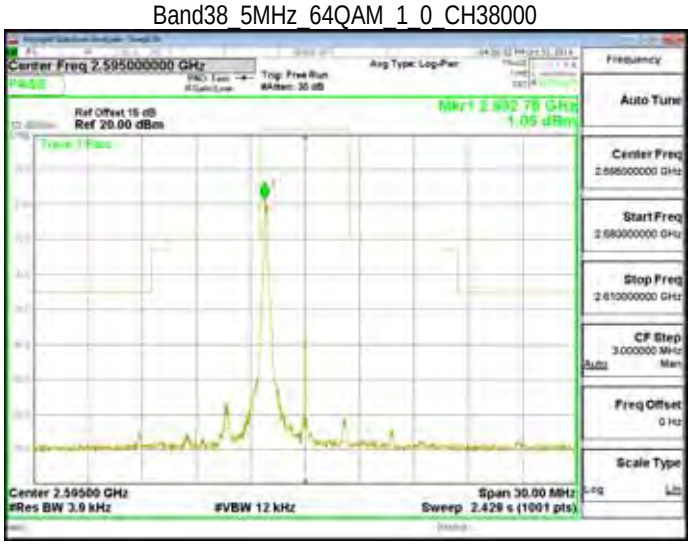
Band38_5MHz_64QAM_1_0_CH37775



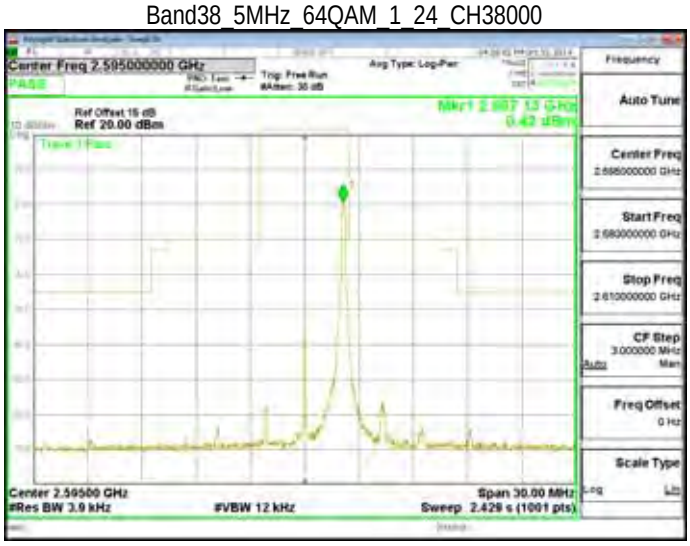
Band38_5MHz_64QAM_1_24_CH37775



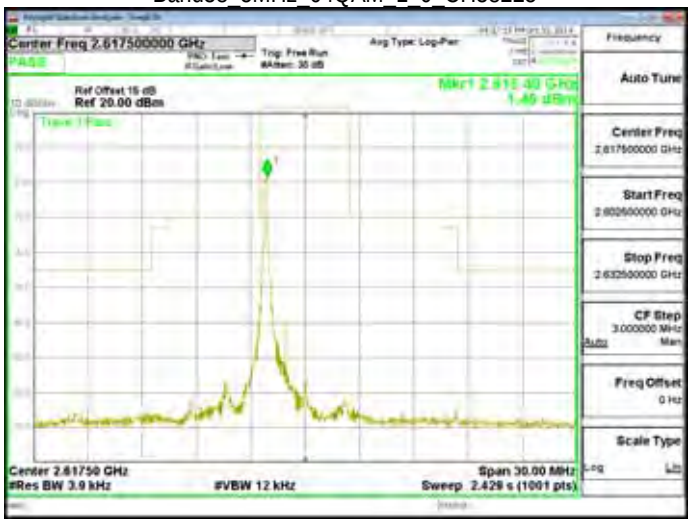
Band38_5MHz_64QAM_1_0_CH38000



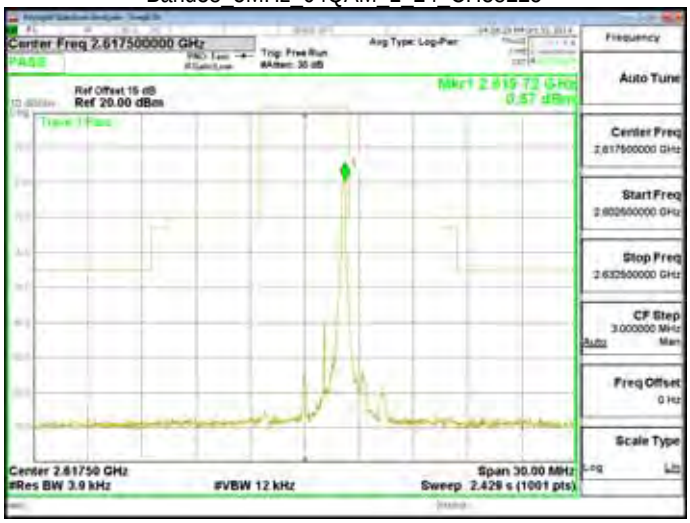
Band38_5MHz_64QAM_1_24_CH38000



Band38_5MHz_64QAM_1_0_CH38225



Band38_5MHz_64QAM_1_24_CH38225



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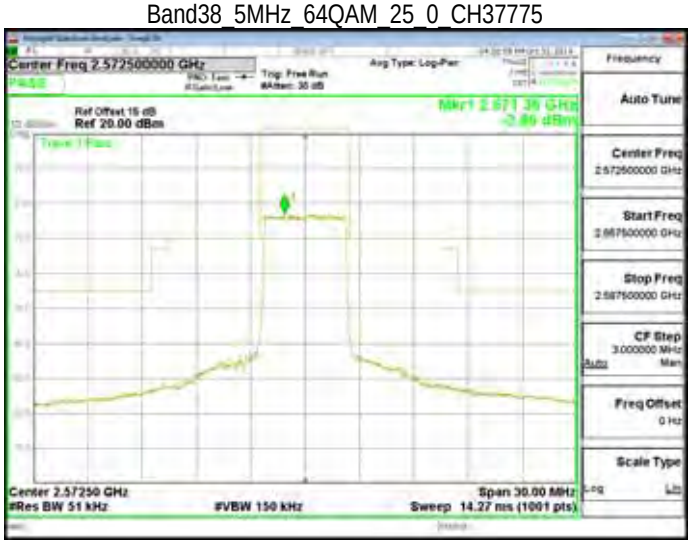
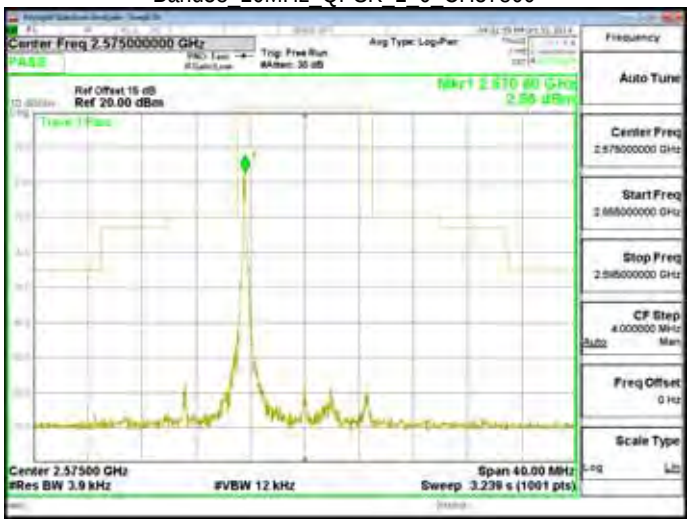
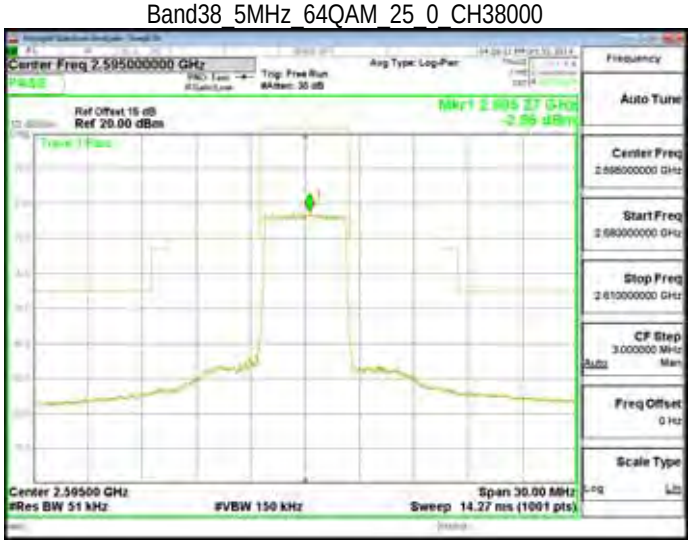
Band38_5MHz_64QAM_25_0_CH37775



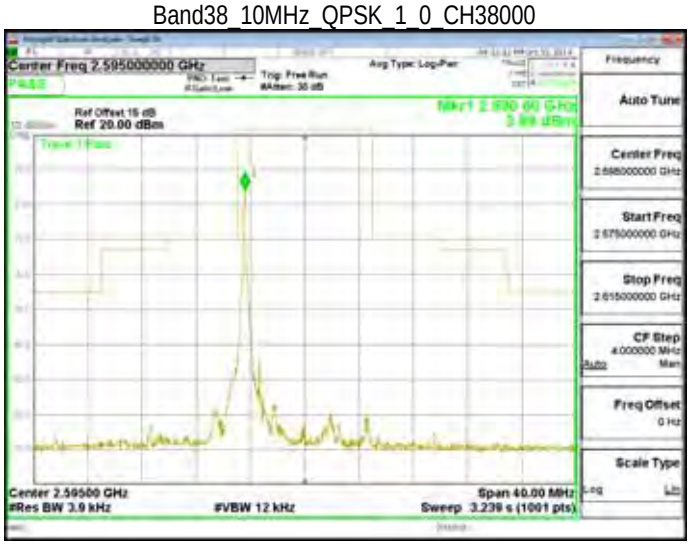
Band38_10MHz_QPSK_1_0_CH37800



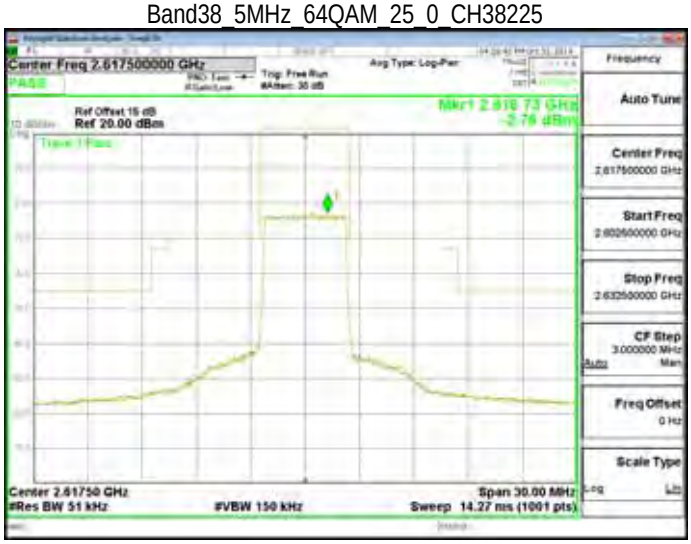
Band38_5MHz_64QAM_25_0_CH38000



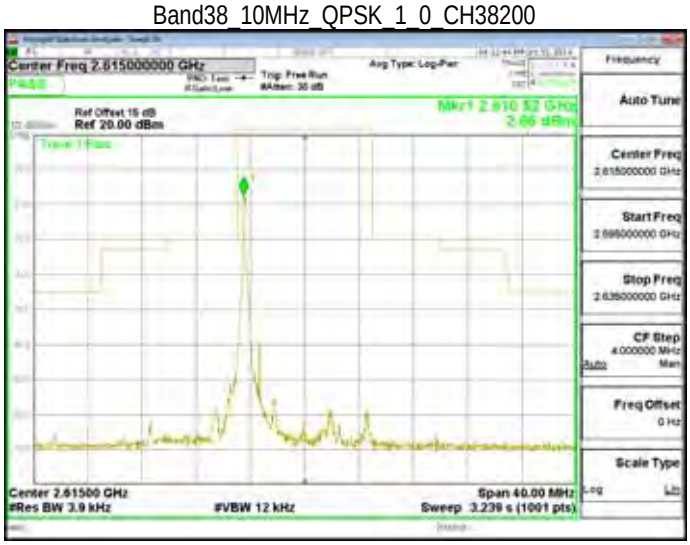
Band38_10MHz_QPSK_1_0_CH38000



Band38_5MHz_64QAM_25_0_CH38225



Band38_10MHz_QPSK_1_0_CH38200



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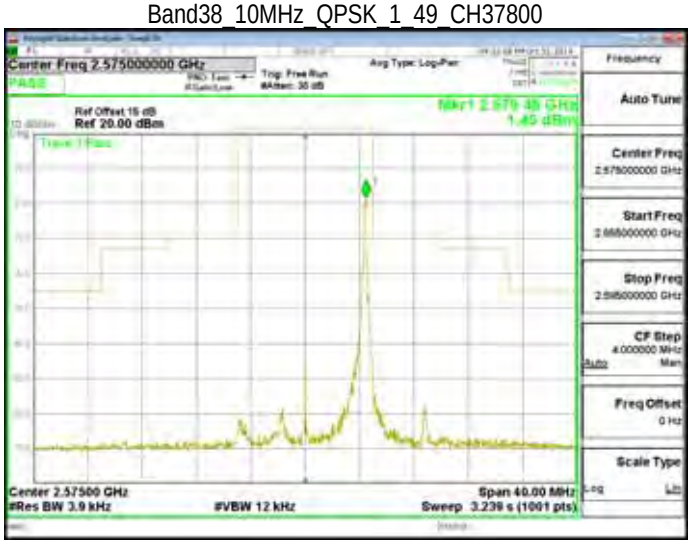
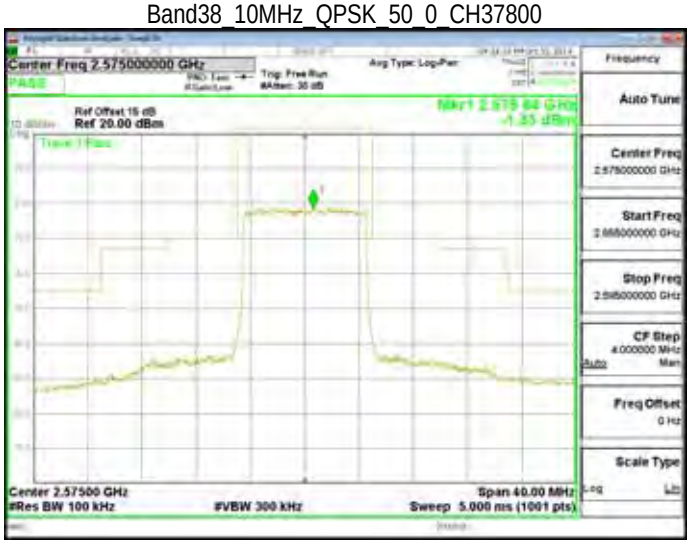
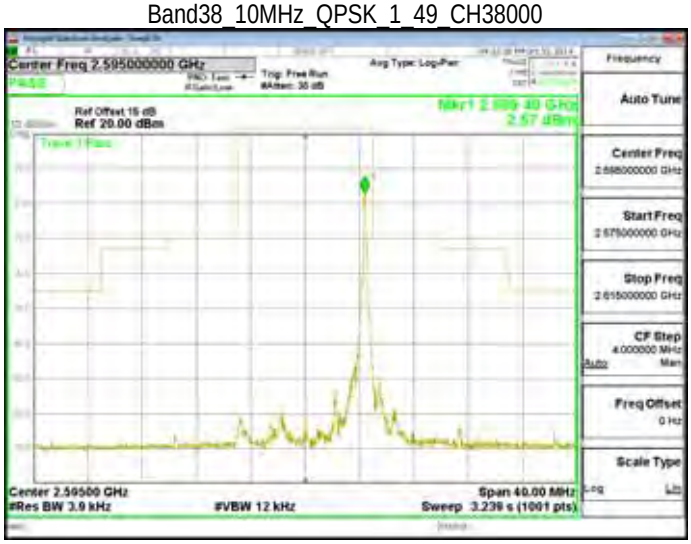
Band38_10MHz_QPSK_1_49_CH37800



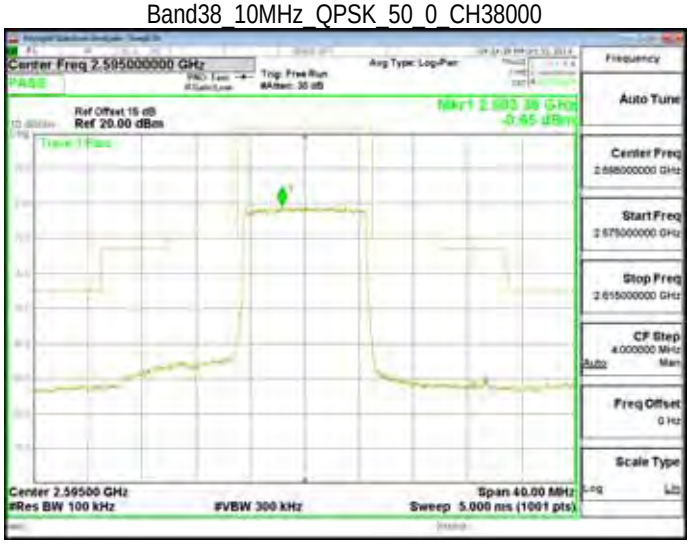
Band38_10MHz_QPSK_50_0_CH37800



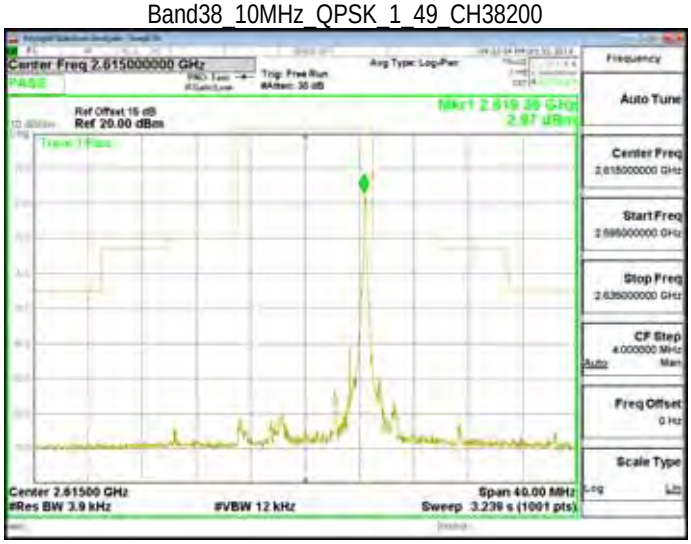
Band38_10MHz_QPSK_1_49_CH38000



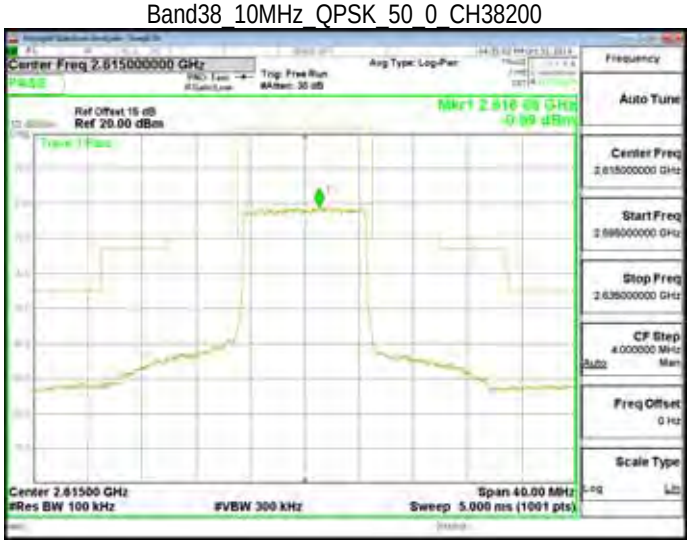
Band38_10MHz_QPSK_50_0_CH38000



Band38_10MHz_QPSK_1_49_CH38200



Band38_10MHz_QPSK_50_0_CH38200



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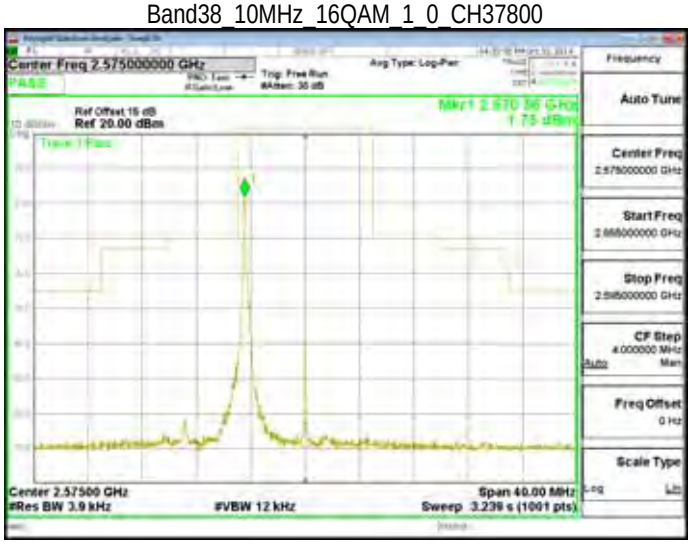
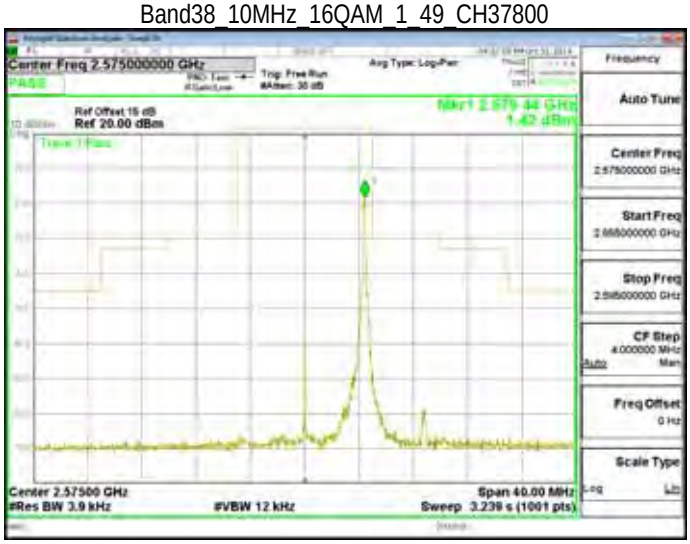
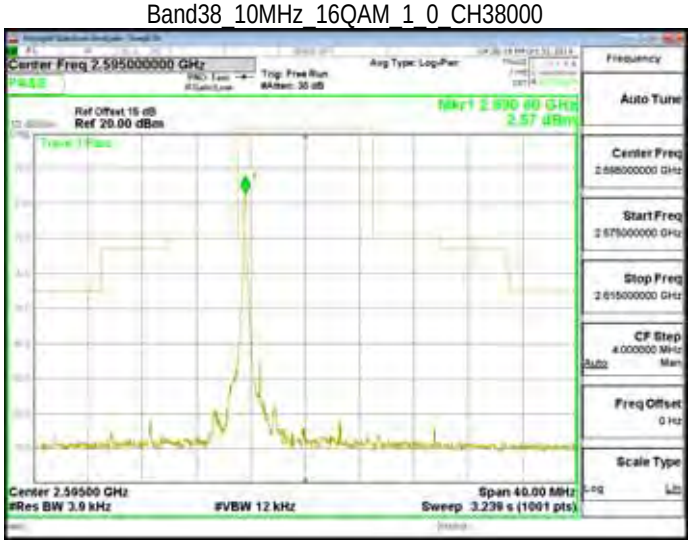
Band38_10MHz_16QAM_1_0_CH37800



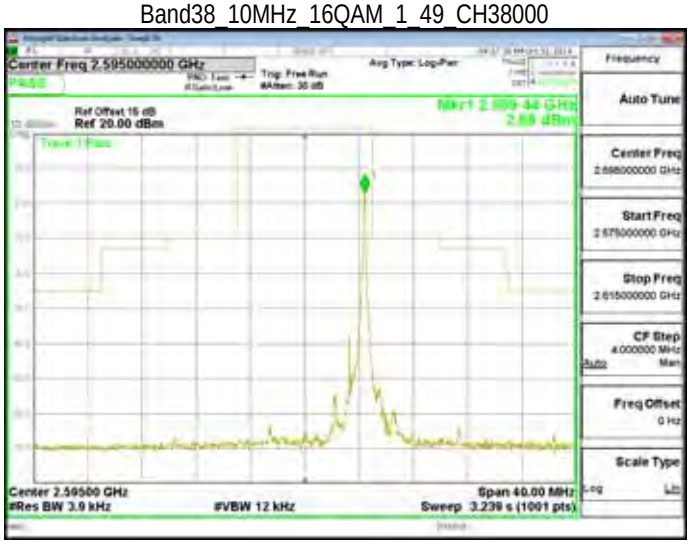
Band38_10MHz_16QAM_1_49_CH37800



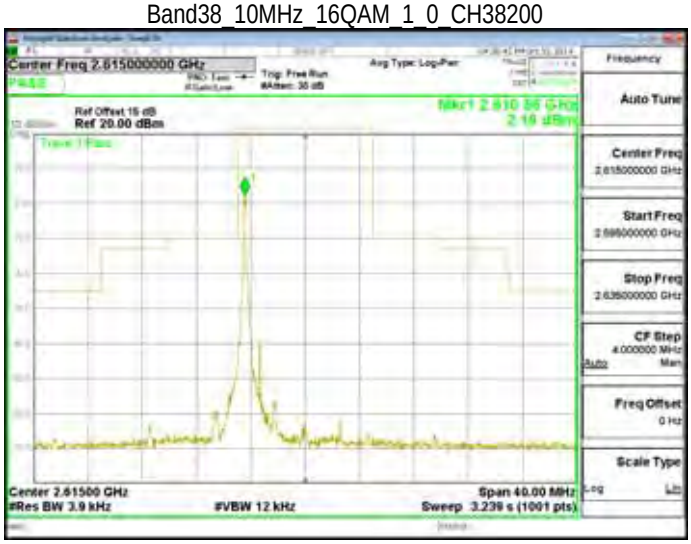
Band38_10MHz_16QAM_1_0_CH38000



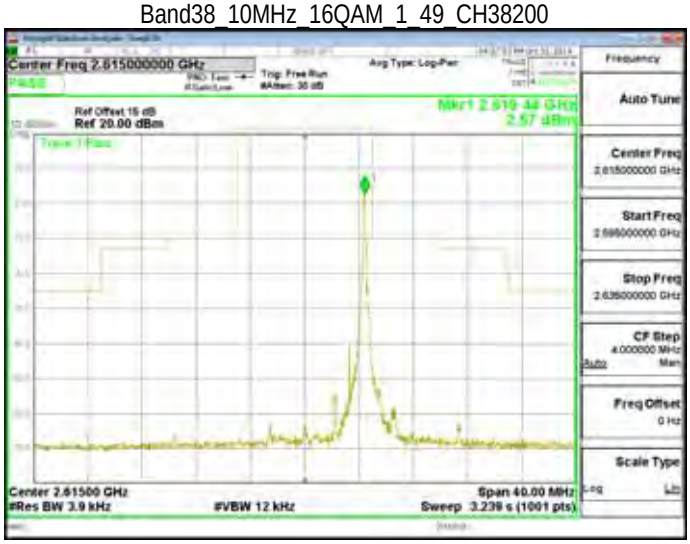
Band38_10MHz_16QAM_1_49_CH38000



Band38_10MHz_16QAM_1_0_CH38200



Band38_10MHz_16QAM_1_49_CH38200



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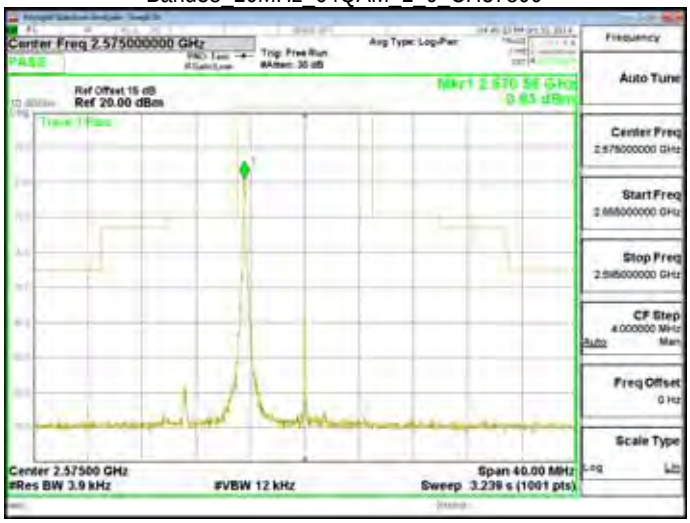
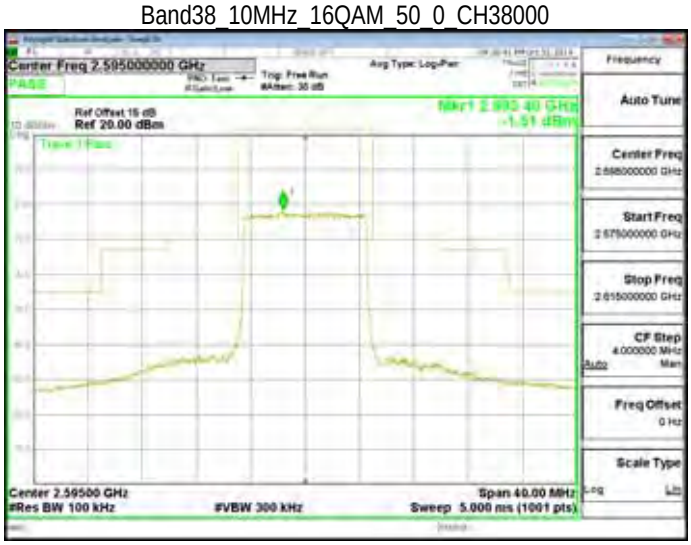
Band38_10MHz_16QAM_50_0_CH37800

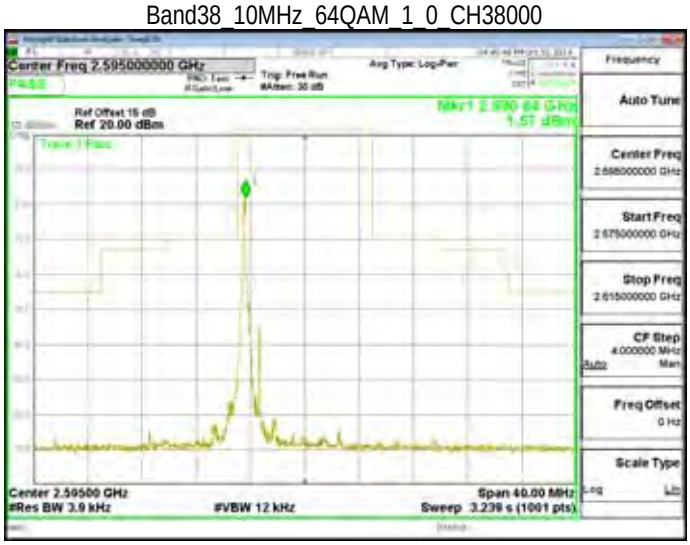
Band38_10MHz_64QAM_1_0_CH37800



Band38_10MHz_16QAM_50_0_CH38000

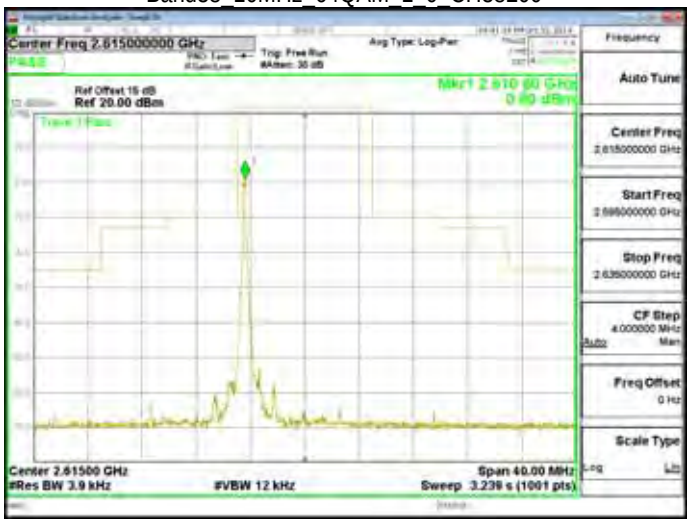


Band38_10MHz_64QAM_1_0_CH38000



Band38_10MHz_16QAM_50_0_CH38200

Band38_10MHz_64QAM_1_0_CH38200



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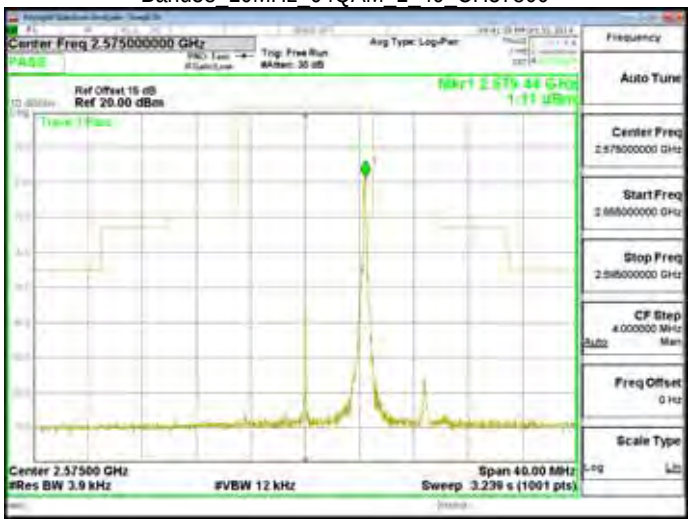
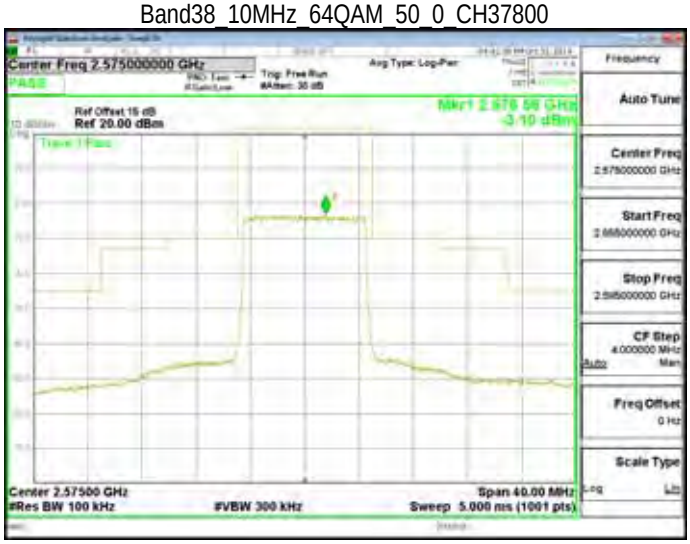
Band38_10MHz_64QAM_1_49_CH37800



Band38_10MHz_64QAM_50_0_CH37800



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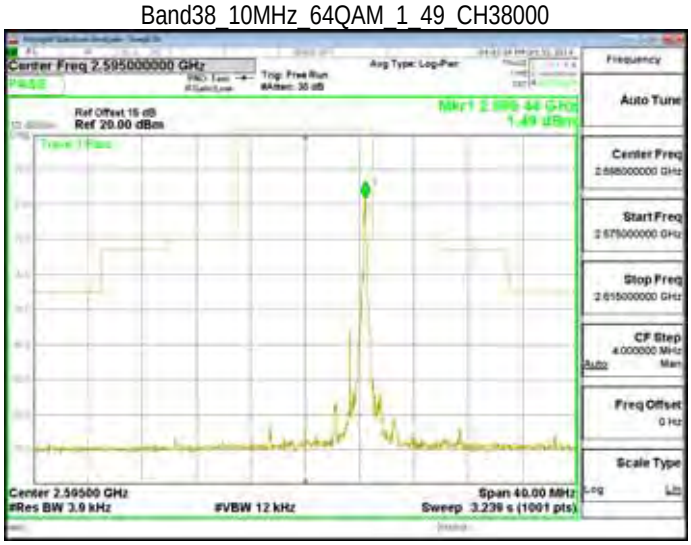

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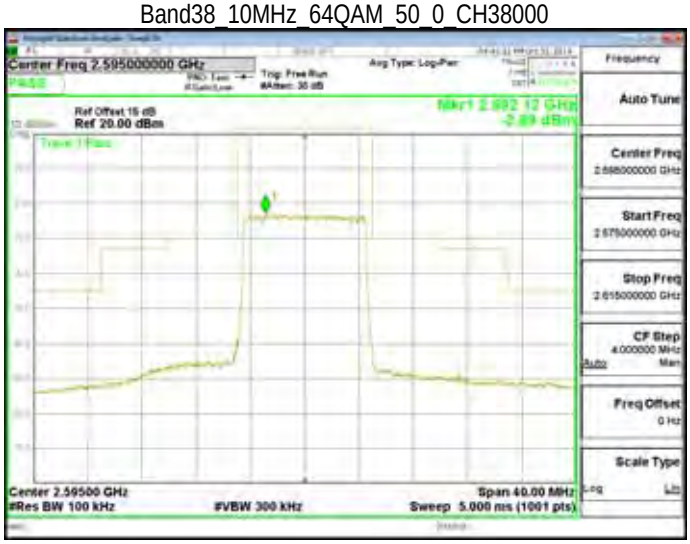

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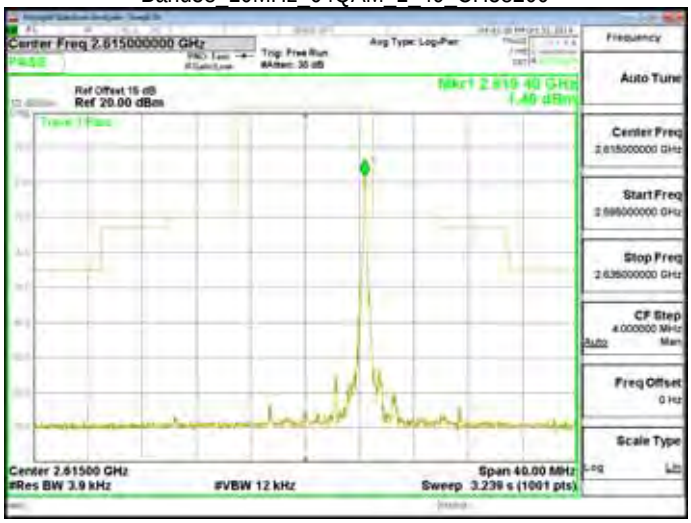

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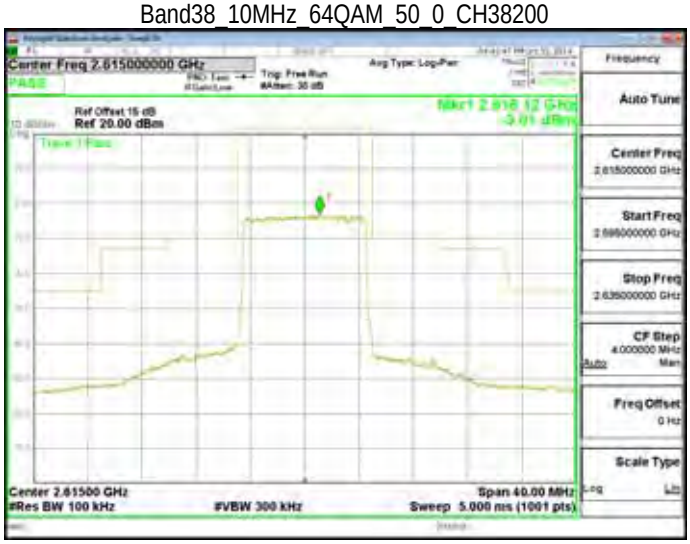

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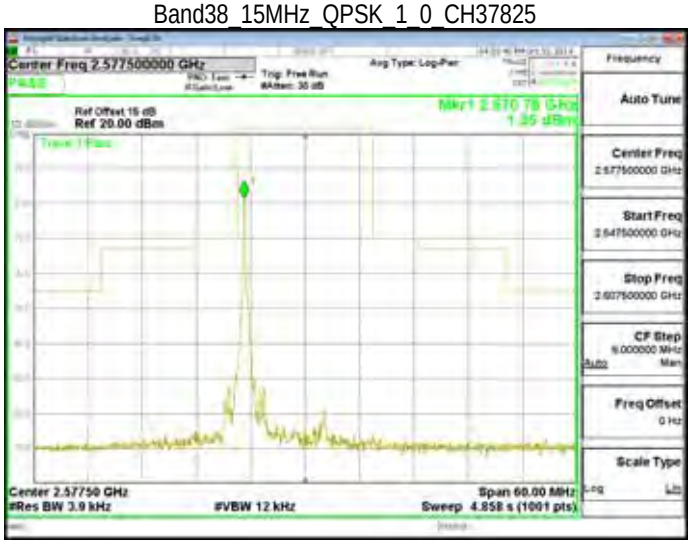
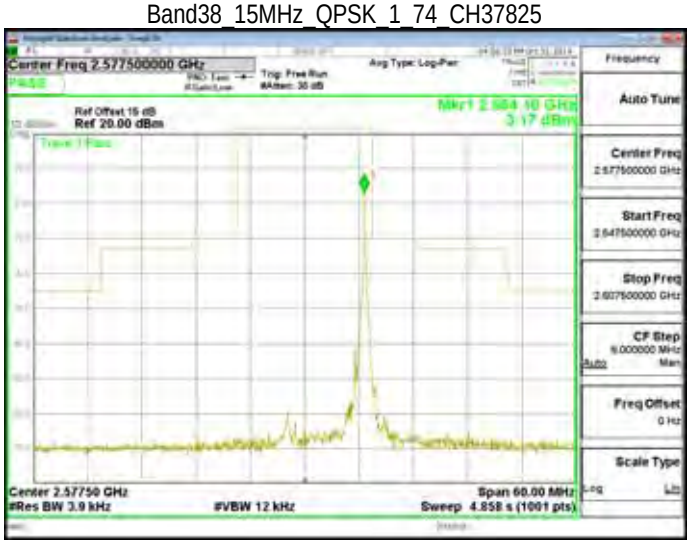
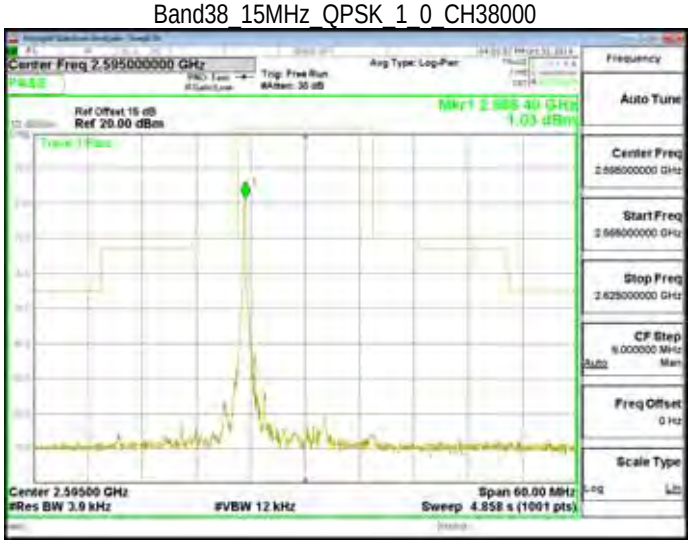
Band38_15MHz_QPSK_1_0_CH37825



Band38_15MHz_QPSK_1_74_CH37825



Band38_15MHz_QPSK_1_0_CH38000



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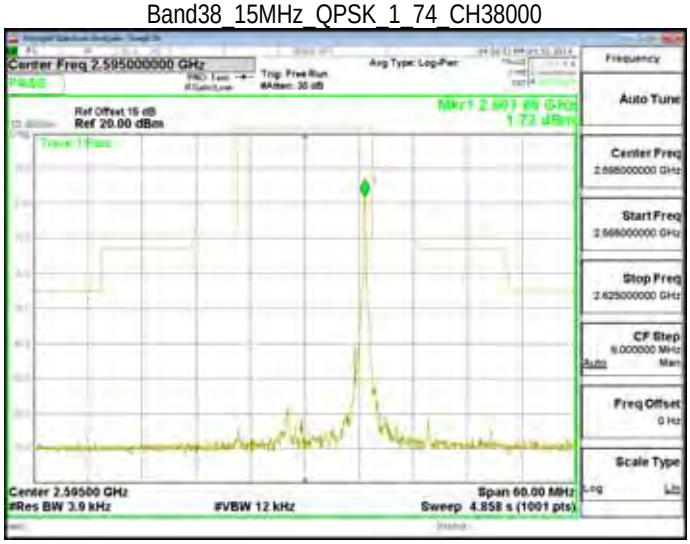
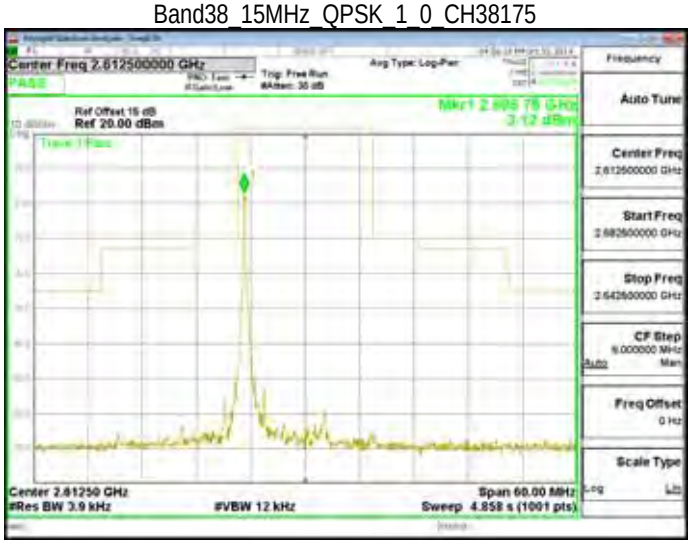


Band38_15MHz_QPSK_1_0_CH38175



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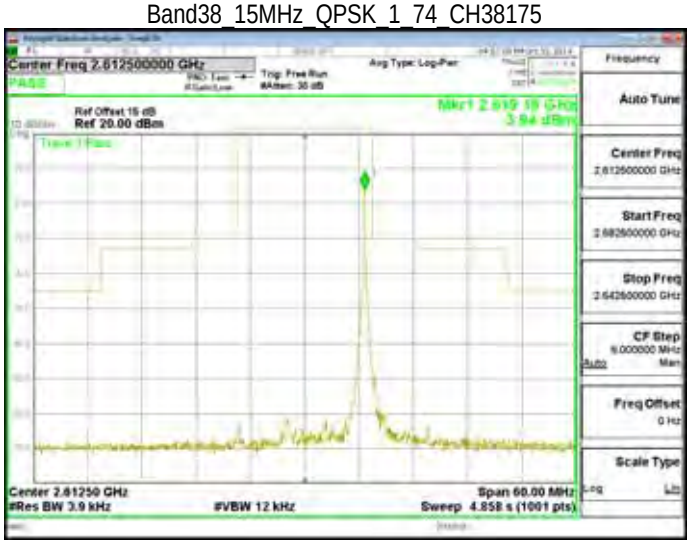

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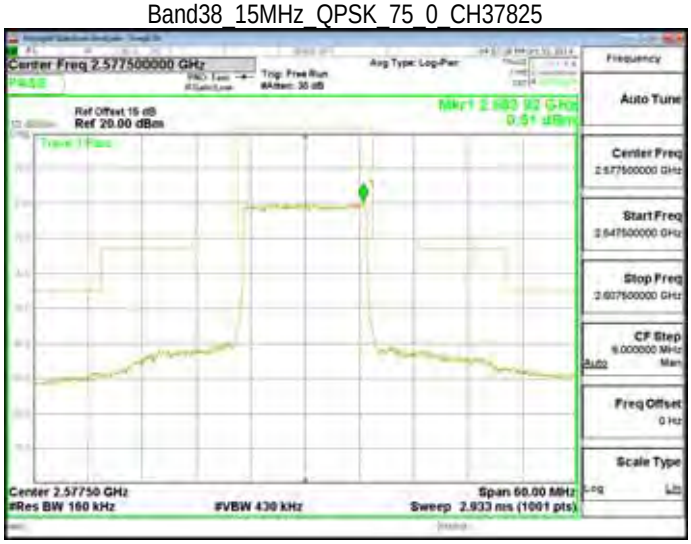
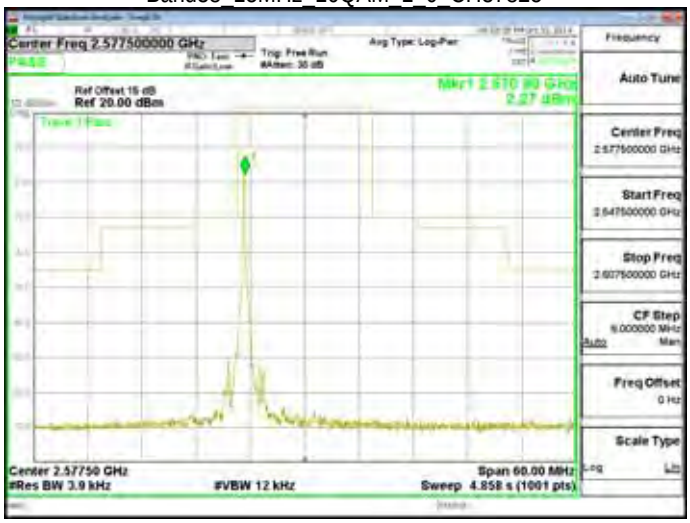
Band38_15MHz_QPSK_75_0_CH37825



Band38_15MHz_16QAM_1_0_CH37825



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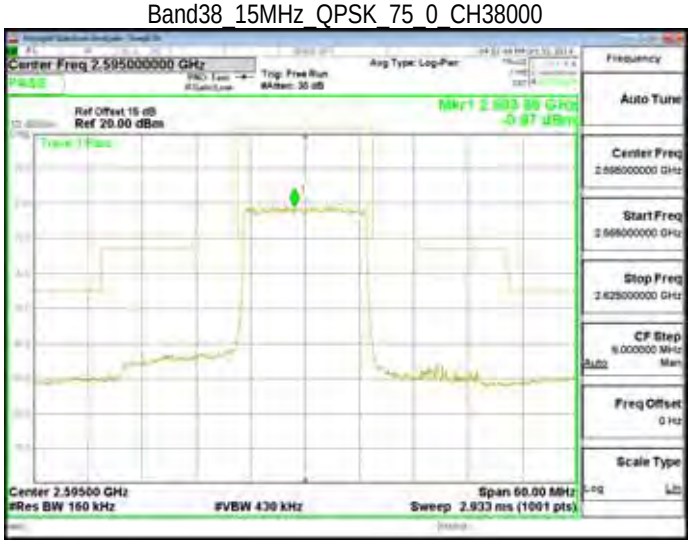

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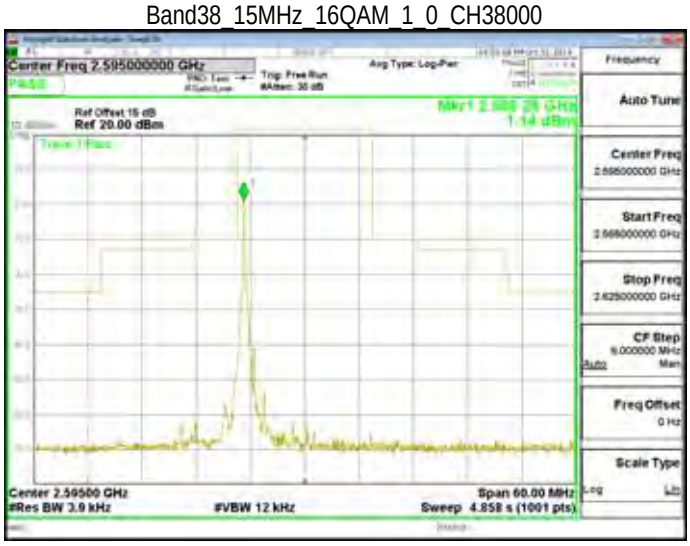
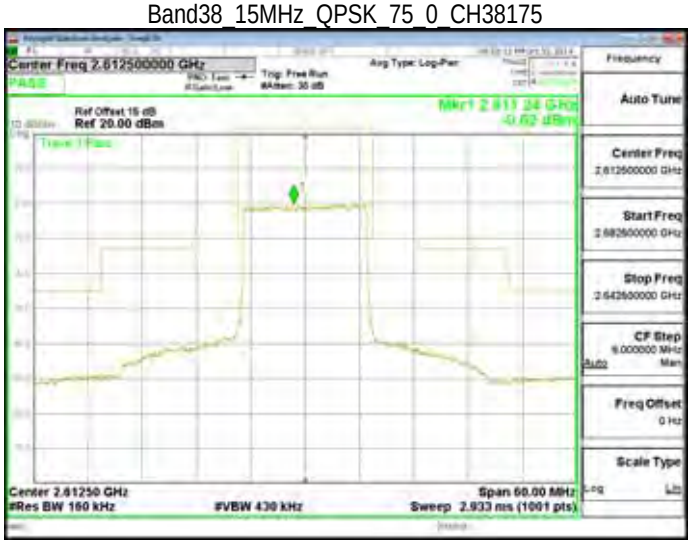
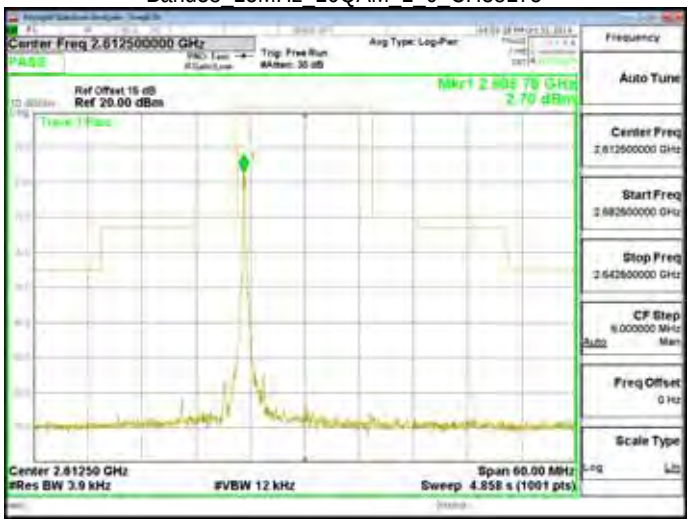


Band38_15MHz_QPSK_75_0_CH38175



Band38_15MHz_16QAM_1_0_CH38175



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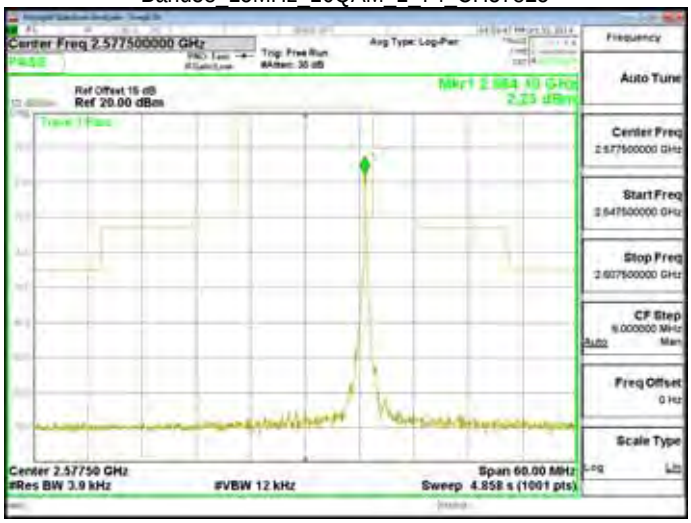
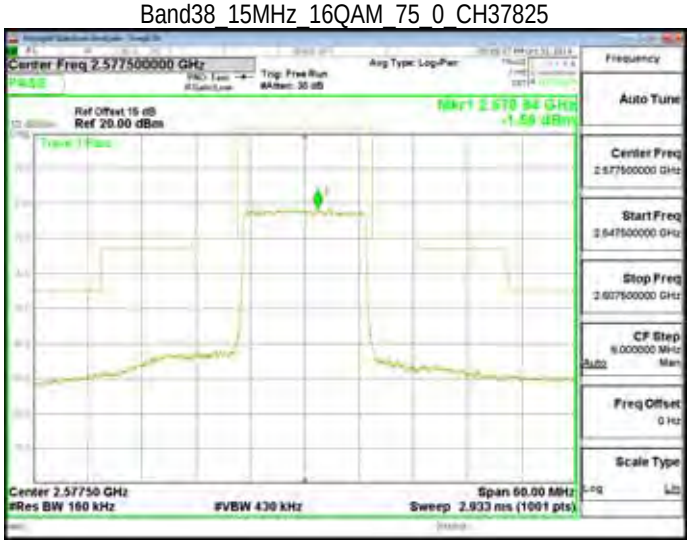
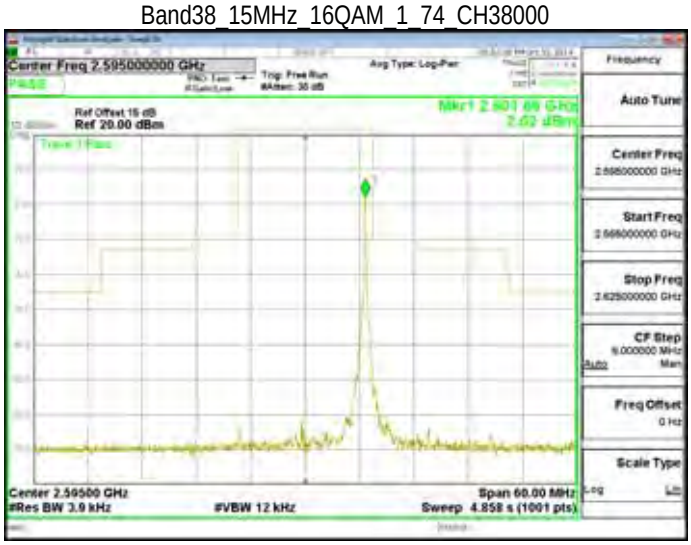
Band38_15MHz_16QAM_1_74_CH37825



Band38_15MHz_16QAM_75_0_CH37825



Band38_15MHz_16QAM_1_74_CH38000



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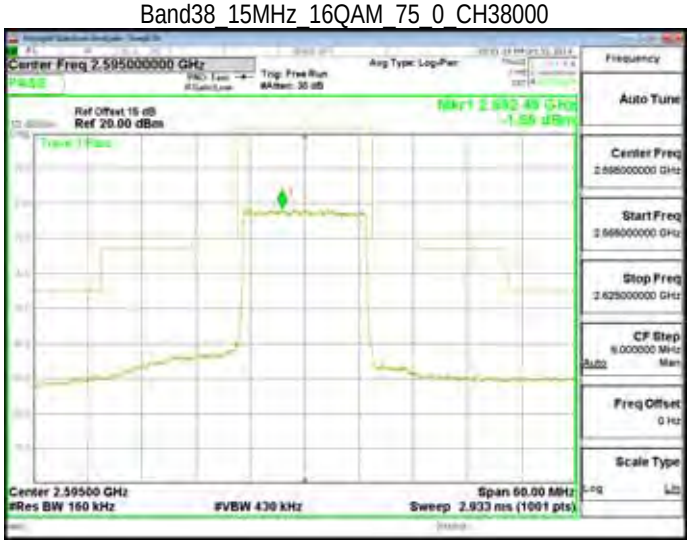
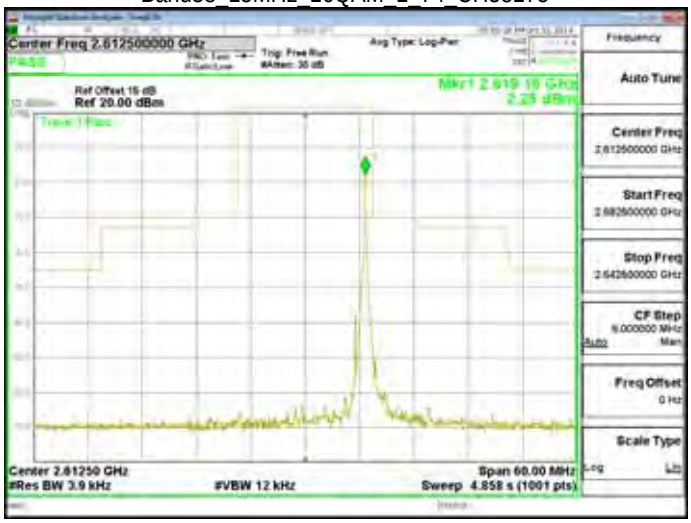
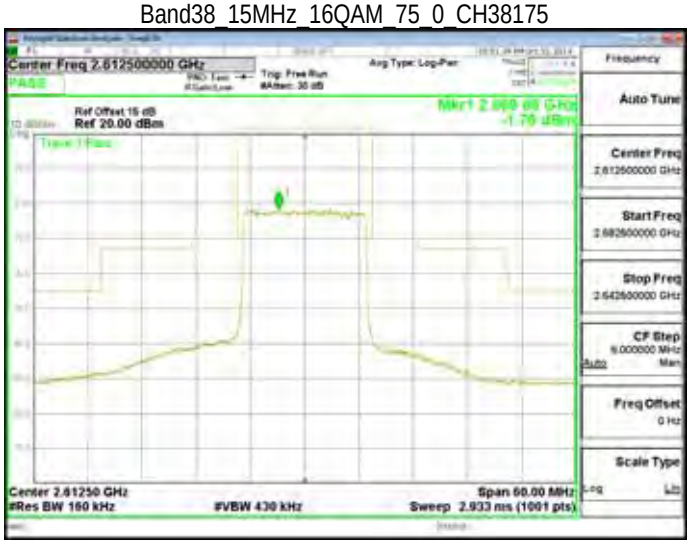


Band38_15MHz_16QAM_1_74_CH38175



Band38_15MHz_16QAM_75_0_CH38175



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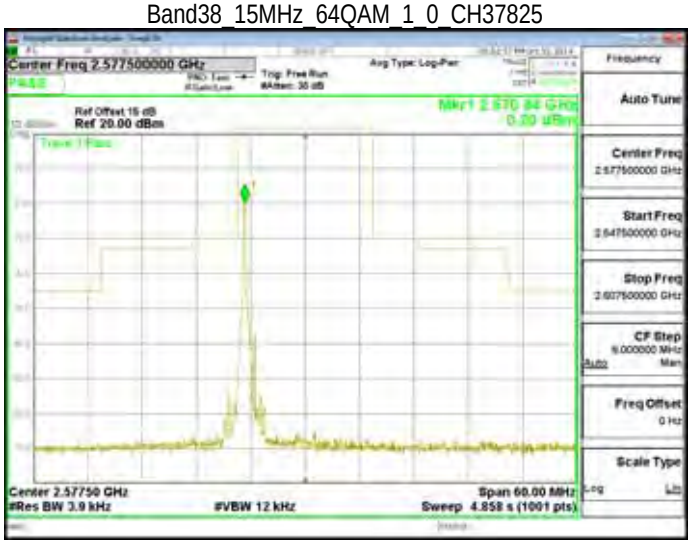
Band38_15MHz_64QAM_1_0_CH37825



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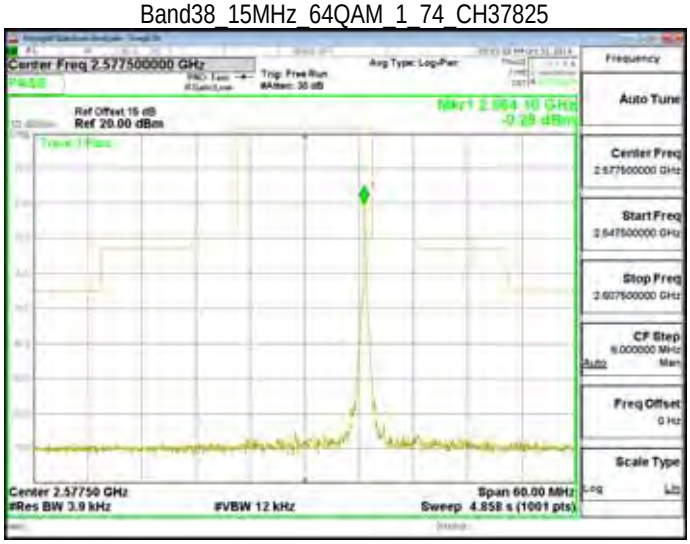
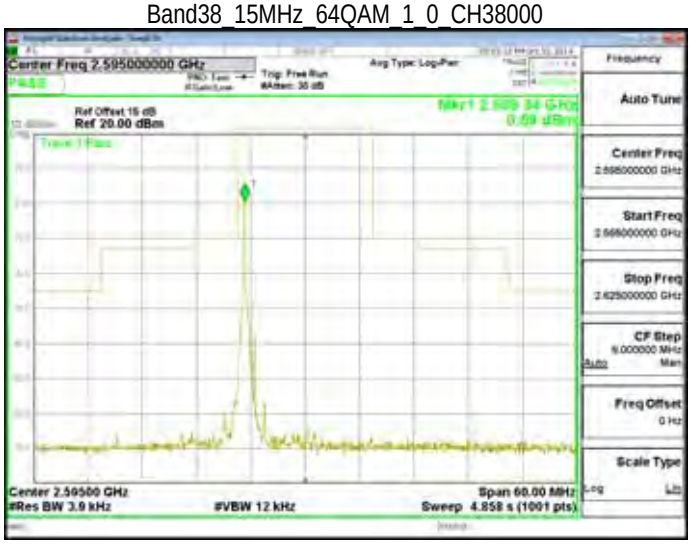
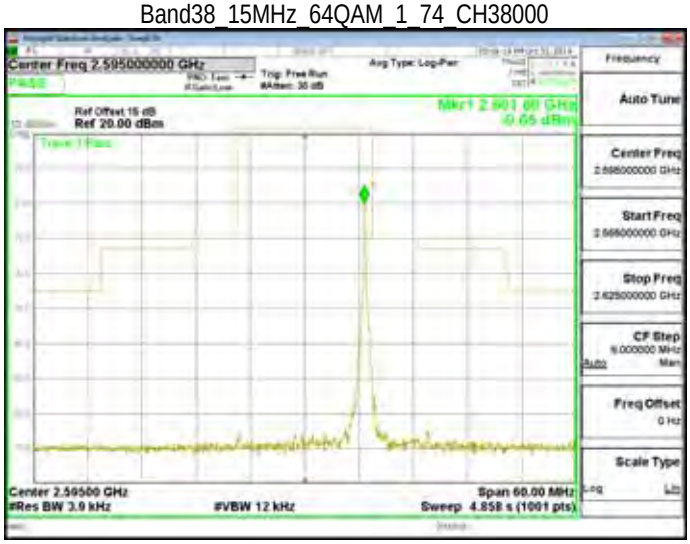


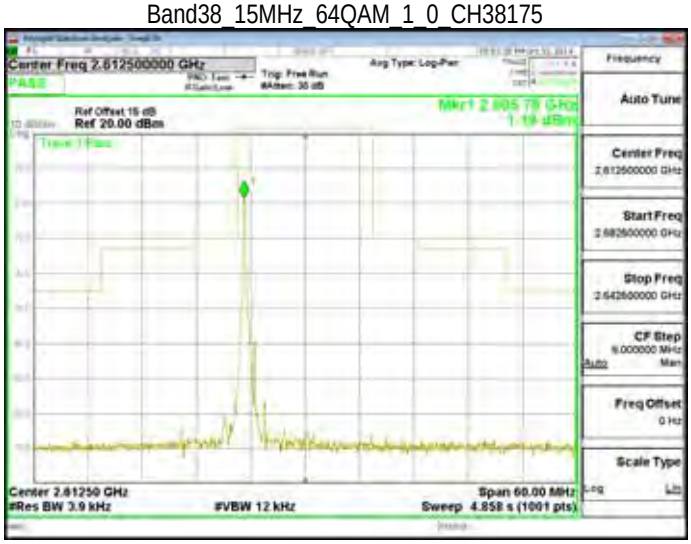
Band38_15MHz_64QAM_1_0_CH38000



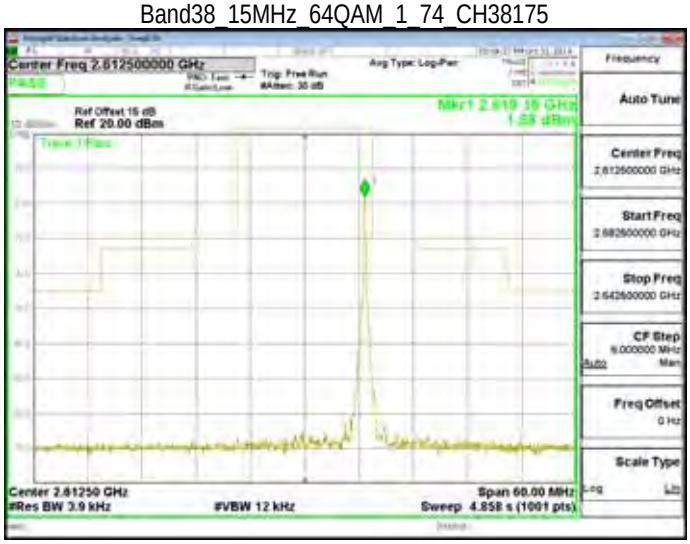
Band38_15MHz_64QAM_1_74_CH38000



Band38_15MHz_64QAM_1_0_CH38175



Band38_15MHz_64QAM_1_74_CH38175



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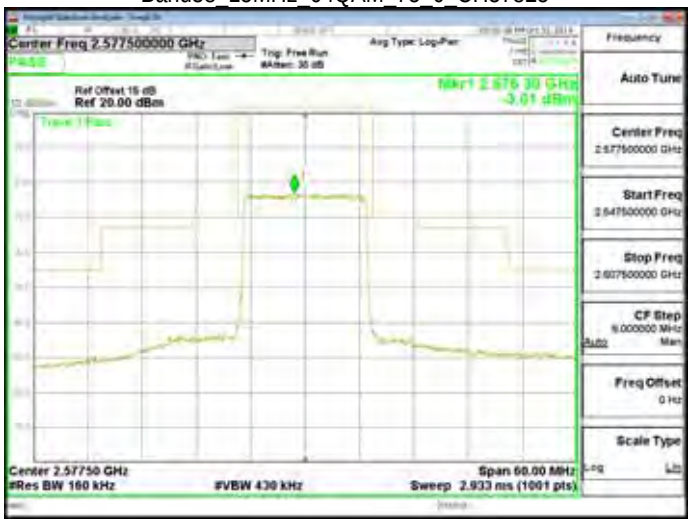
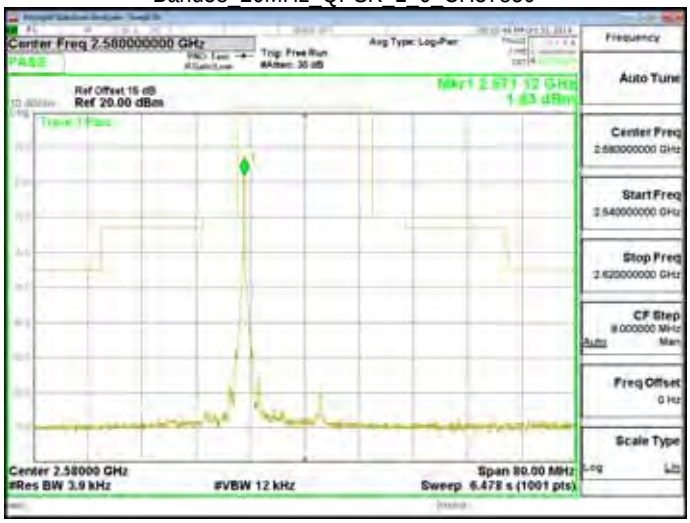
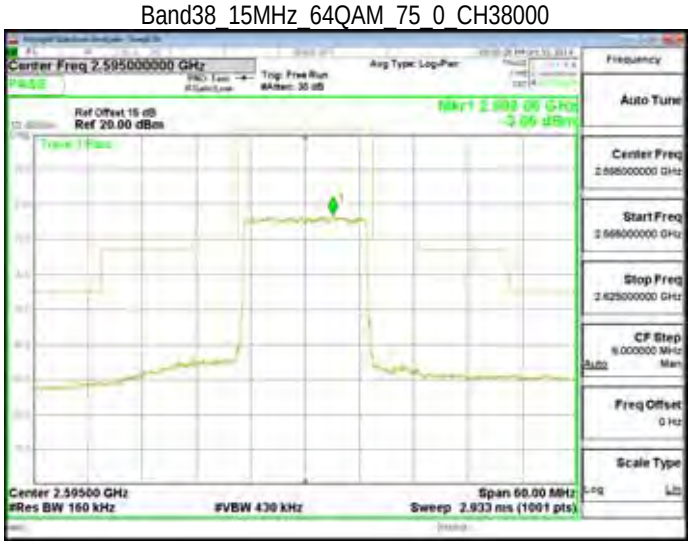
Band38_15MHz_64QAM_75_0_CH37825



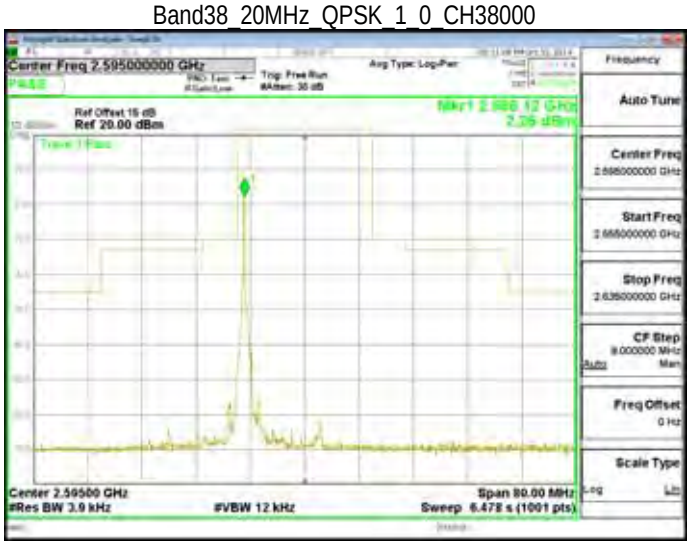
Band38_20MHz_QPSK_1_0_CH37850



Band38_15MHz_64QAM_75_0_CH38000

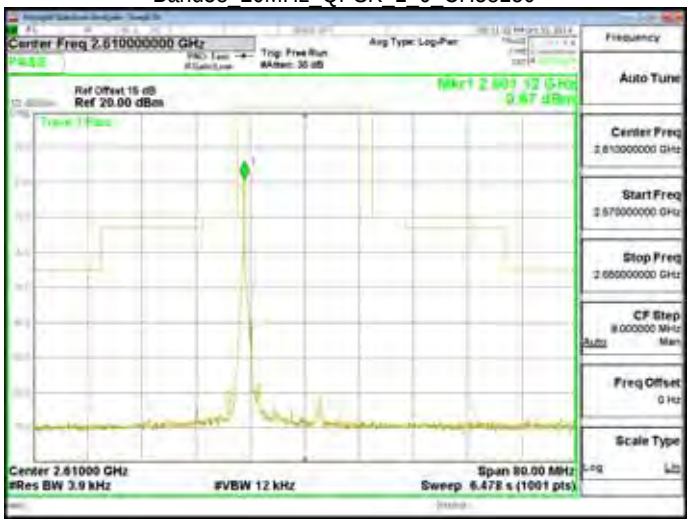


Band38_20MHz_QPSK_1_0_CH38000



Band38_15MHz_64QAM_75_0_CH38175

Band38_20MHz_QPSK_1_0_CH38150



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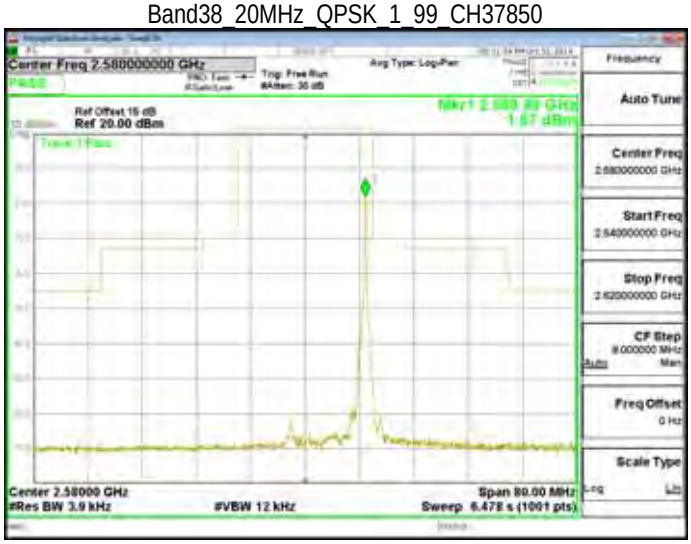
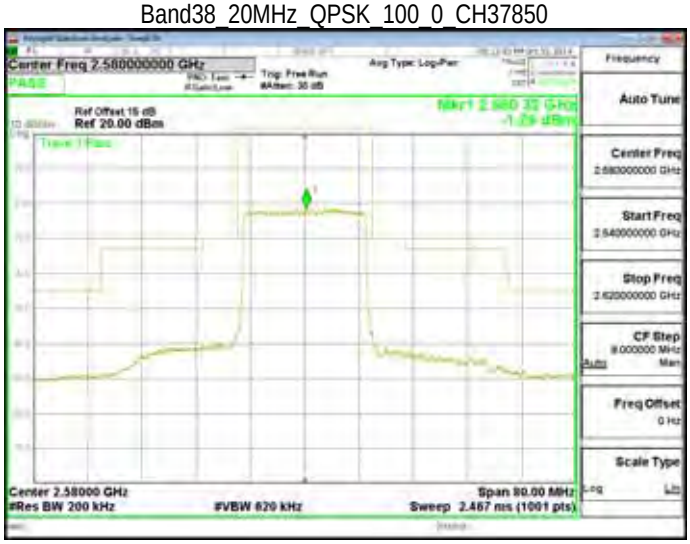
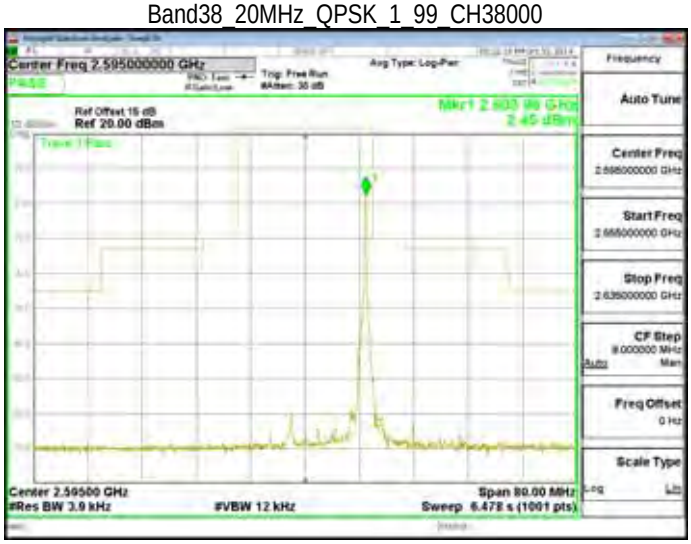
Band38_20MHz_QPSK_1_99_CH37850



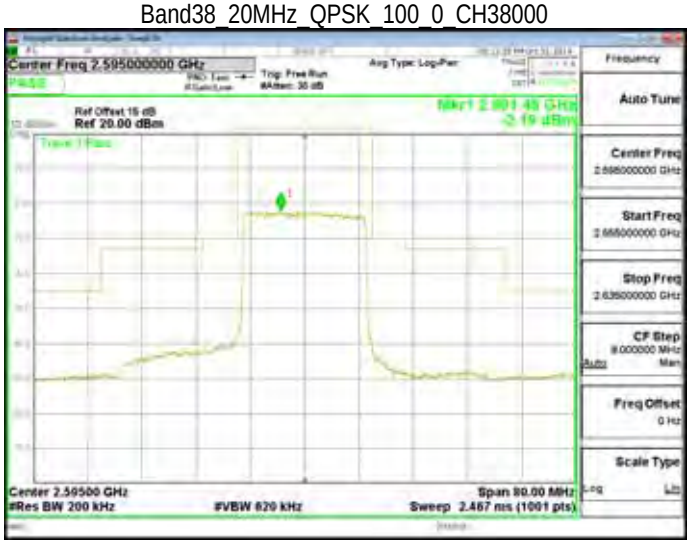
Band38_20MHz_QPSK_100_0_CH37850



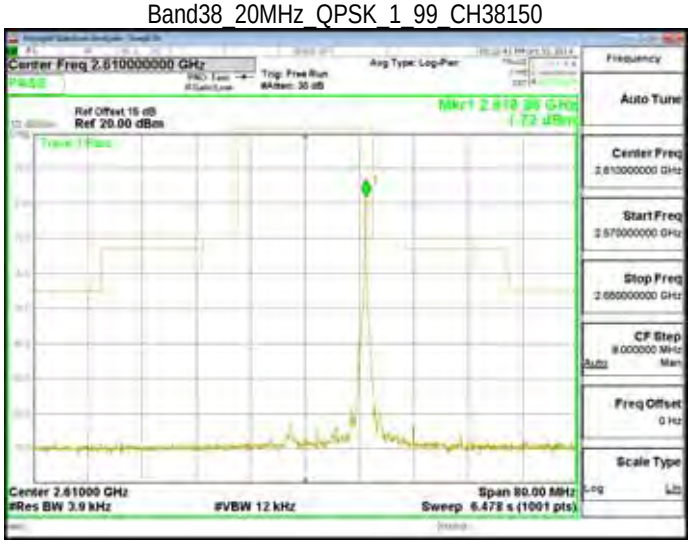
Band38_20MHz_QPSK_1_99_CH38000



Band38_20MHz_QPSK_100_0_CH38000



Band38_20MHz_QPSK_1_99_CH38150



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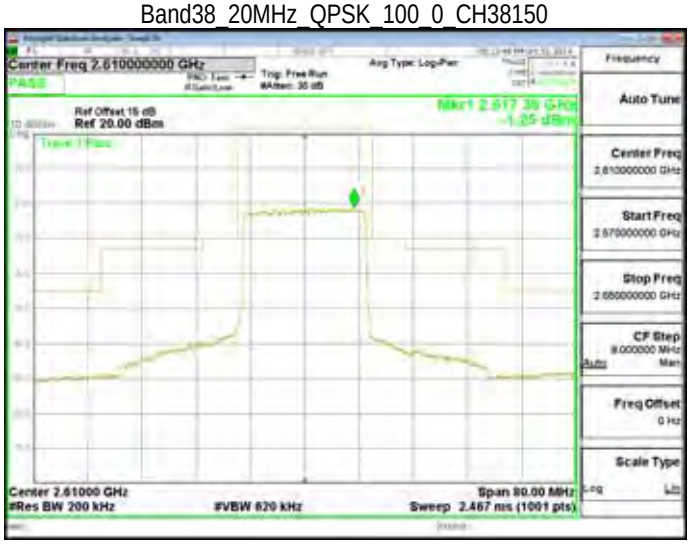

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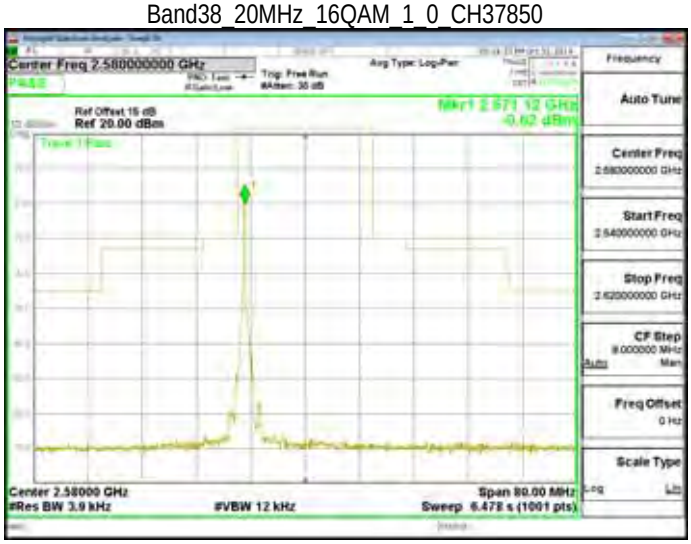
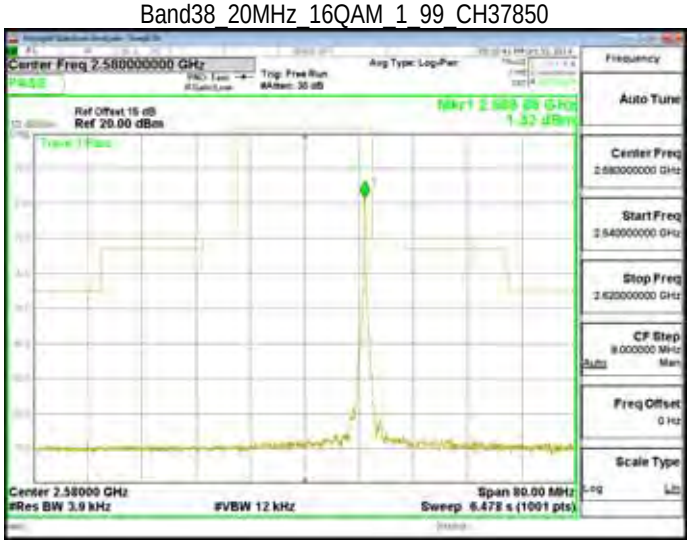
Band38_20MHz_16QAM_1_0_CH37850



Band38_20MHz_16QAM_1_99_CH37850



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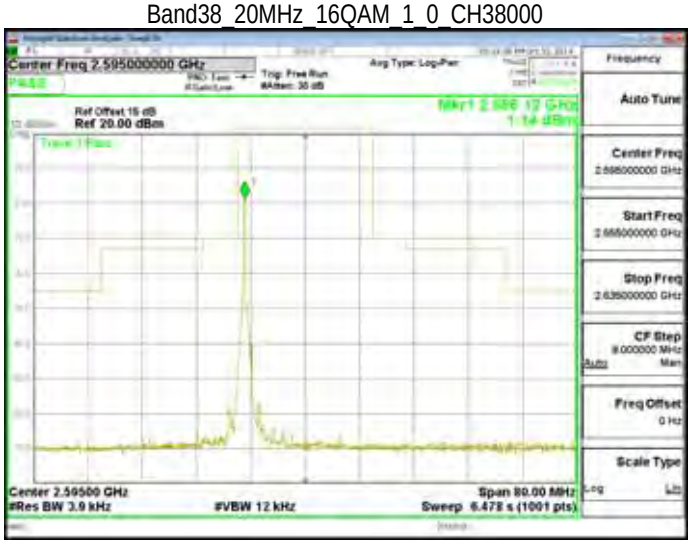
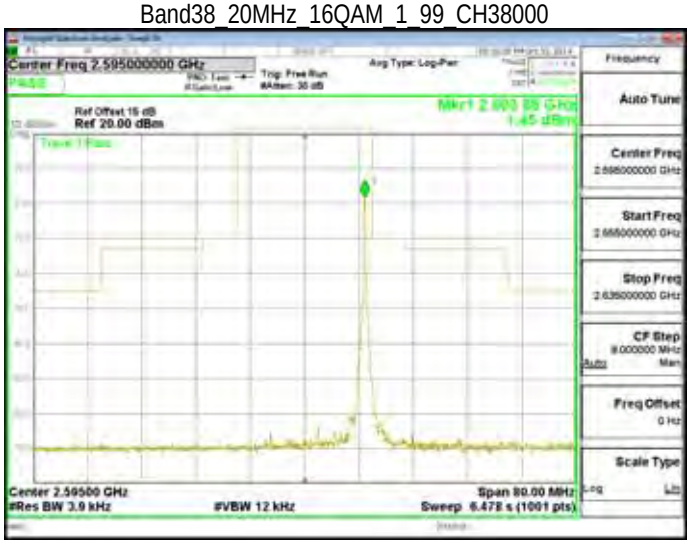
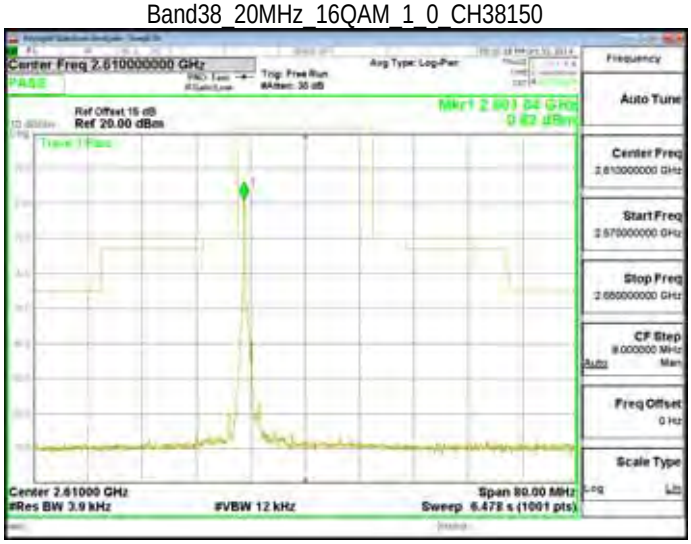


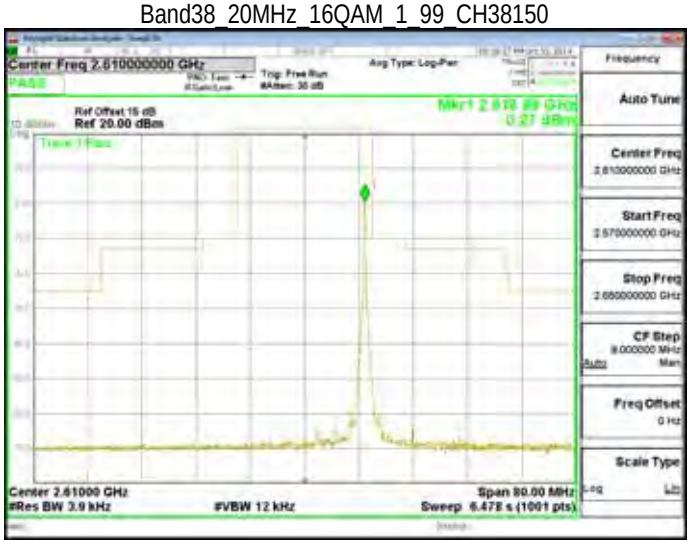
Band38_20MHz_16QAM_1_99_CH38000



Band38_20MHz_16QAM_1_0_CH38150



Band38_20MHz_16QAM_1_99_CH38150



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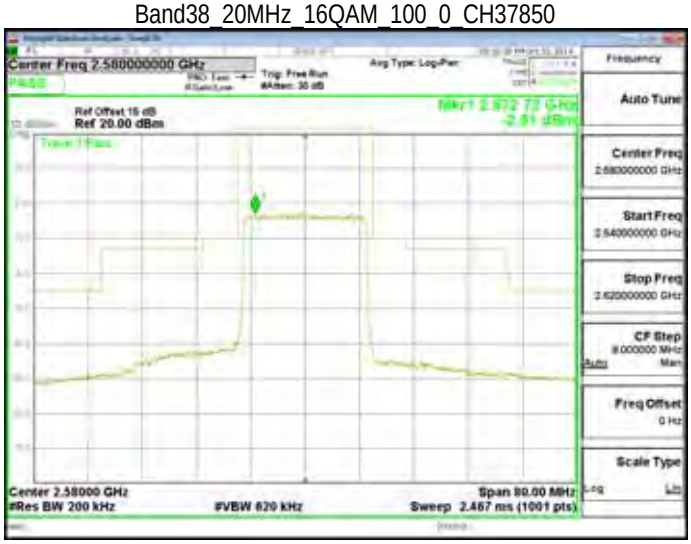
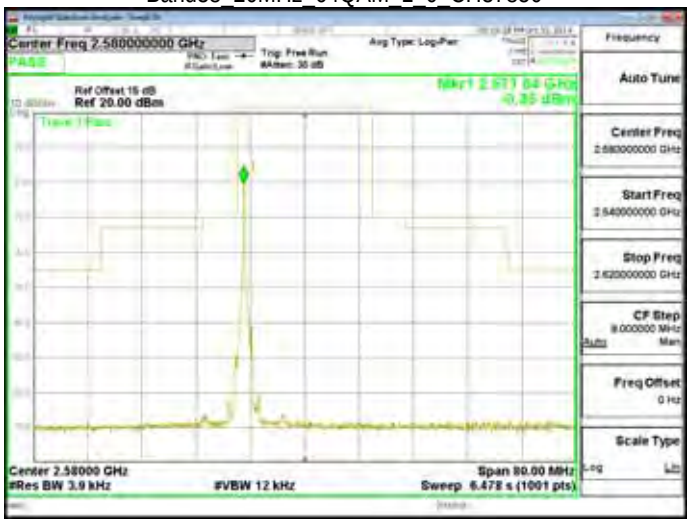
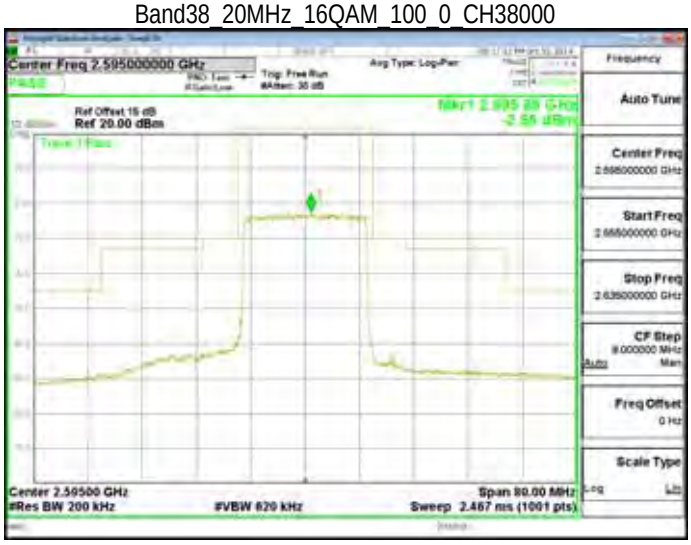
Band38_20MHz_16QAM_100_0_CH37850



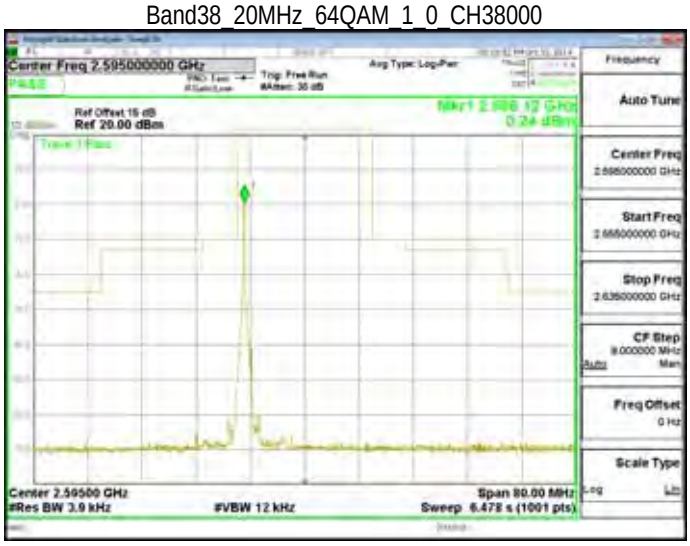
Band38_20MHz_64QAM_1_0_CH37850



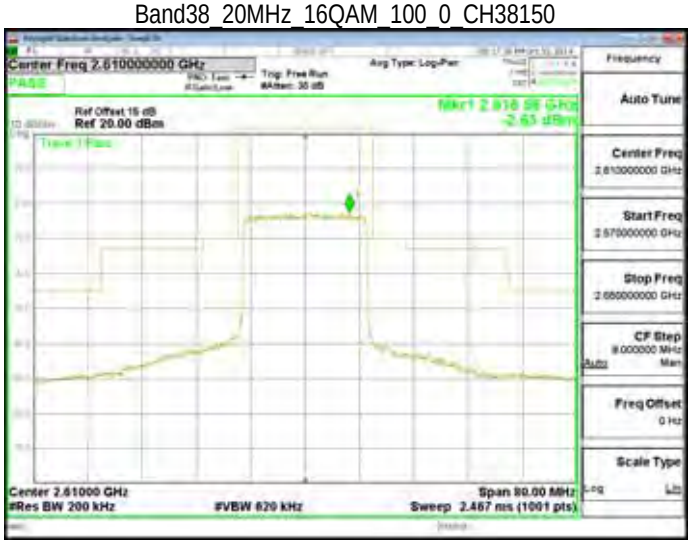
Band38_20MHz_16QAM_100_0_CH38000



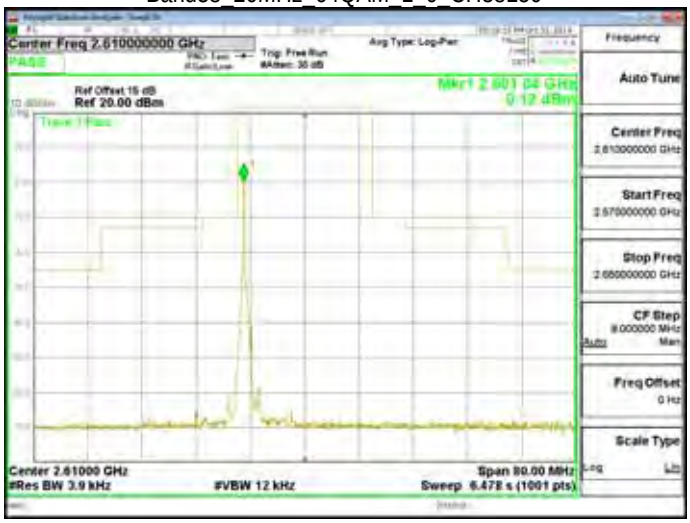
Band38_20MHz_64QAM_1_0_CH38000



Band38_20MHz_16QAM_100_0_CH38150



Band38_20MHz_64QAM_1_0_CH38150



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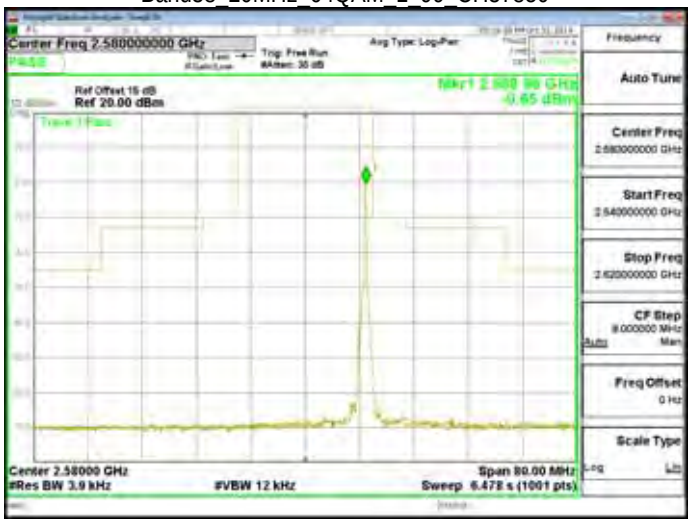
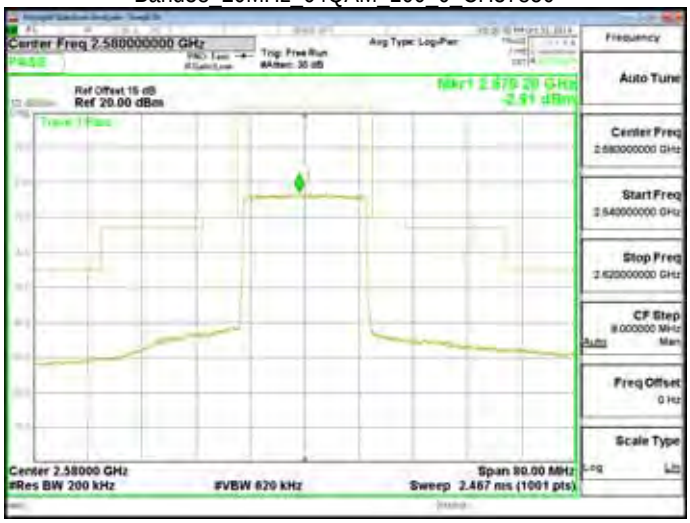
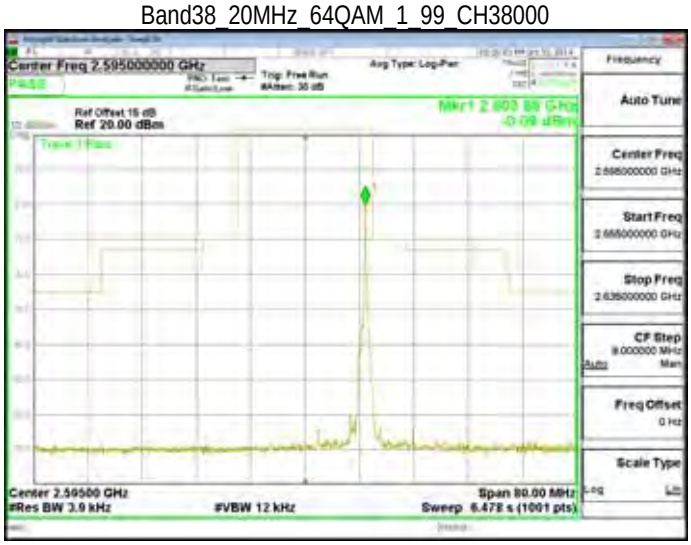
Band38_20MHz_64QAM_1_99_CH37850



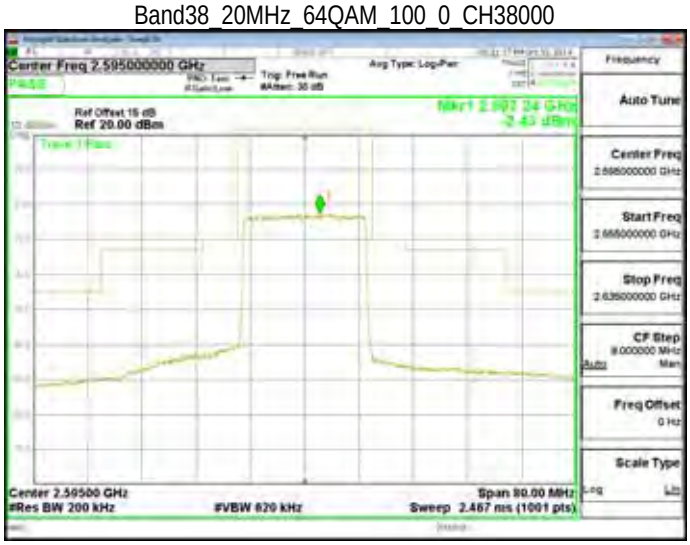
Band38_20MHz_64QAM_100_0_CH37850



Band38_20MHz_64QAM_1_99_CH38000



Band38_20MHz_64QAM_100_0_CH38000



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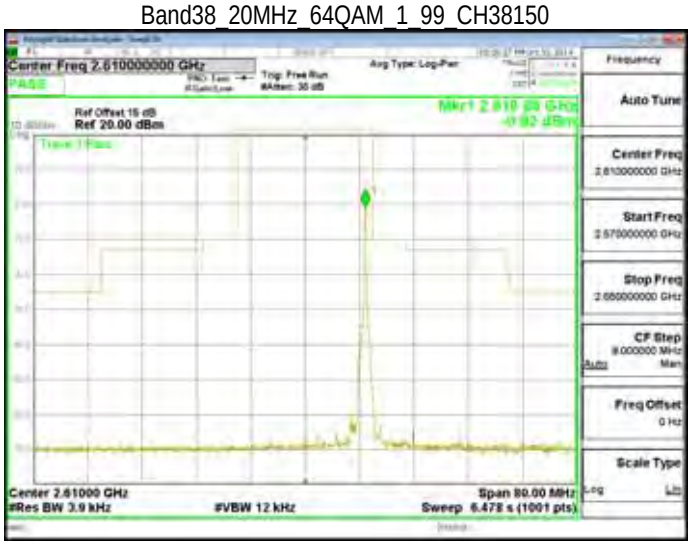

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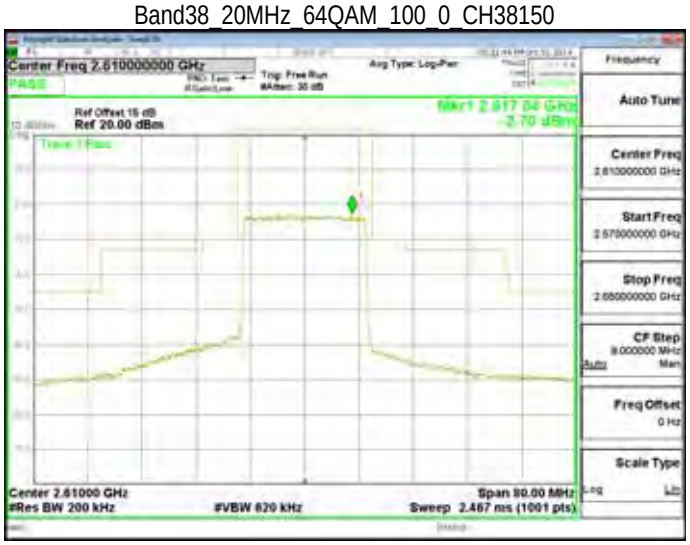

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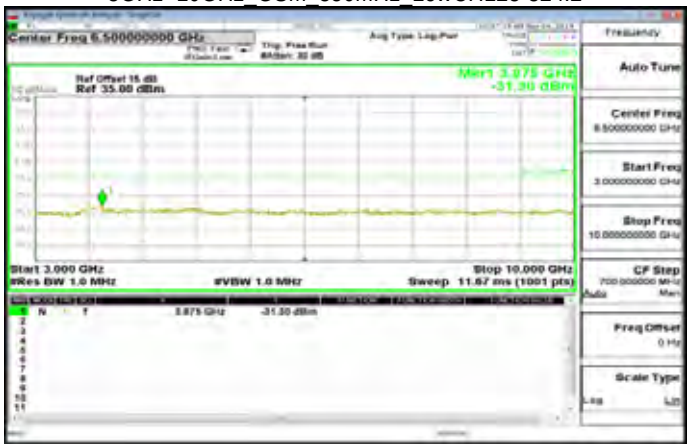
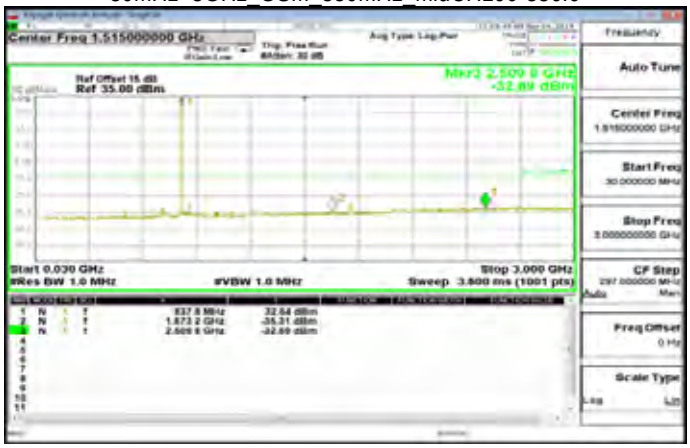
Out of Band Emission

30MHz~3GHz_GSM_850MHz_LowCH128-824.2

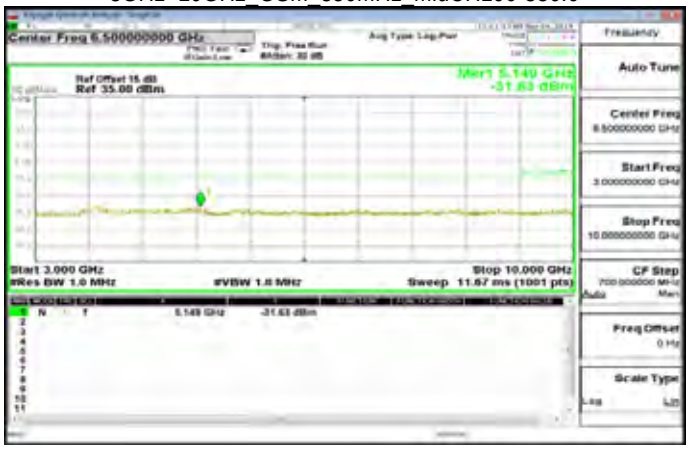
3GHz~10GHz_GSM_850MHz_LowCH128-824.2



30MHz~3GHz_GSM_850MHz_MidCH190-836.6



3GHz~10GHz_GSM_850MHz_MidCH190-836.6



30MHz~3GHz_GSM_850MHz_HighCH251-848.8

3GHz~10GHz_GSM_850MHz_HighCH251-848.8

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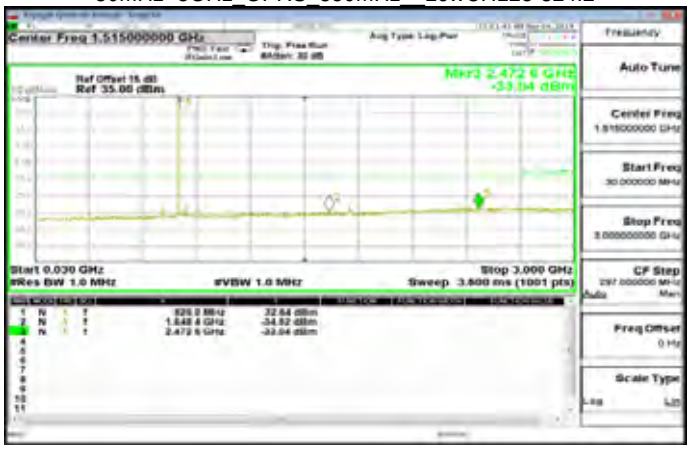
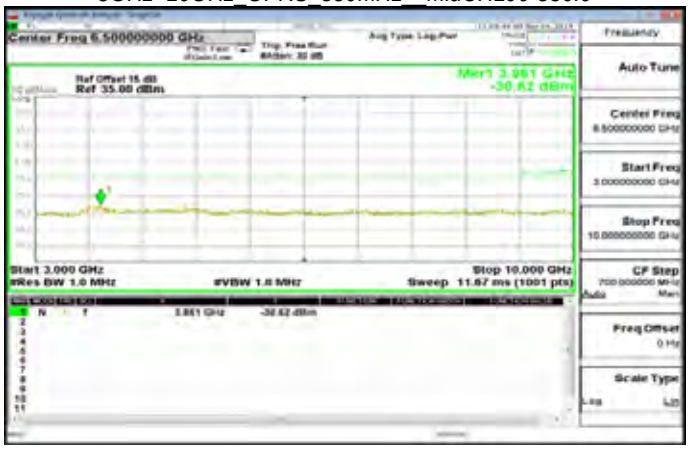
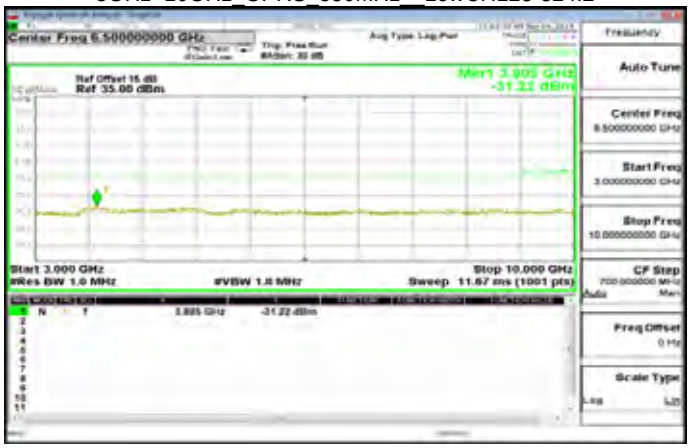
30MHz~3GHz_GPRS_850MHz__LowCH128-824.2



3GHz~10GHz_GPRS_850MHz__MidCH190-836.6

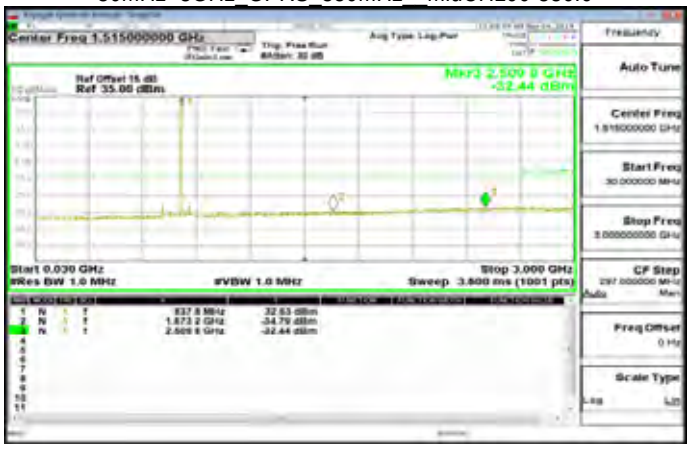


3GHz~10GHz_GPRS_850MHz__LowCH128-824.2



30MHz~3GHz_GPRS_850MHz__HighCH251-848.8

30MHz~3GHz_GPRS_850MHz__MidCH190-836.6



3GHz~10GHz_GPRS_850MHz__HighCH251-848.8

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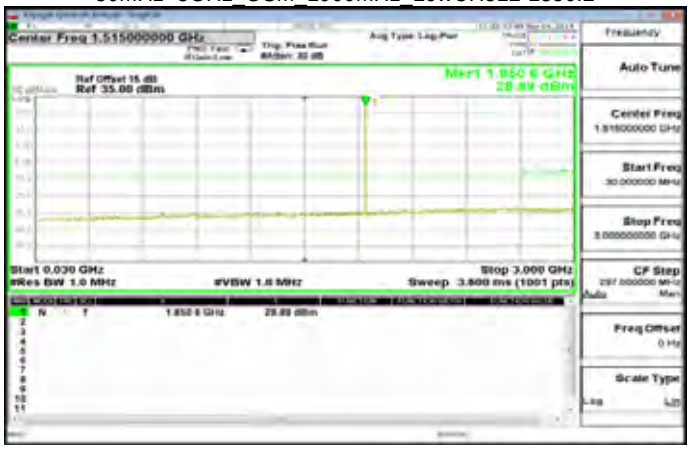
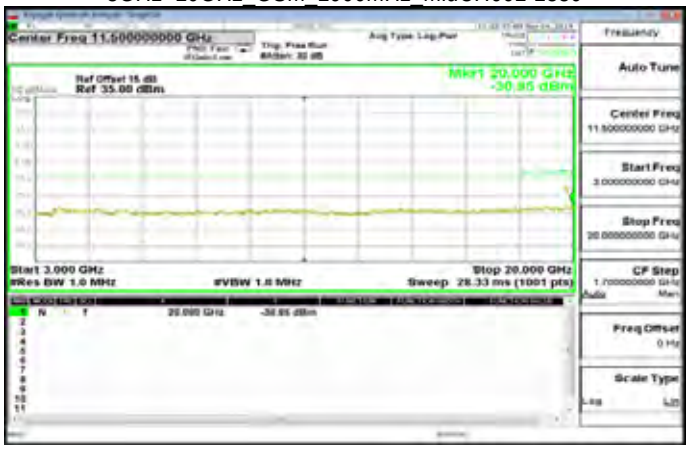
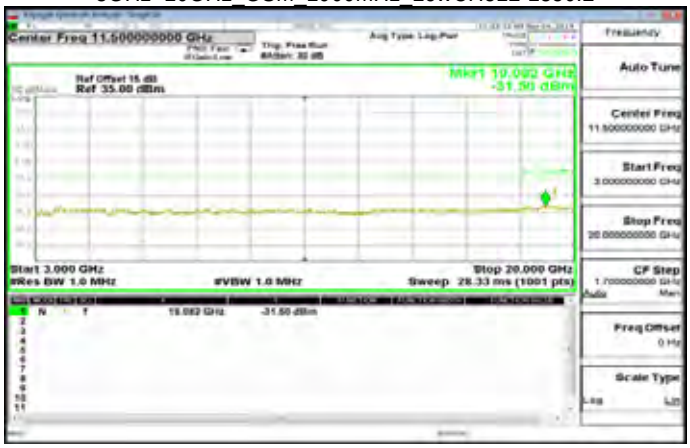
30MHz~3GHz_GSM_1900MHz_LowCH512-1850.2



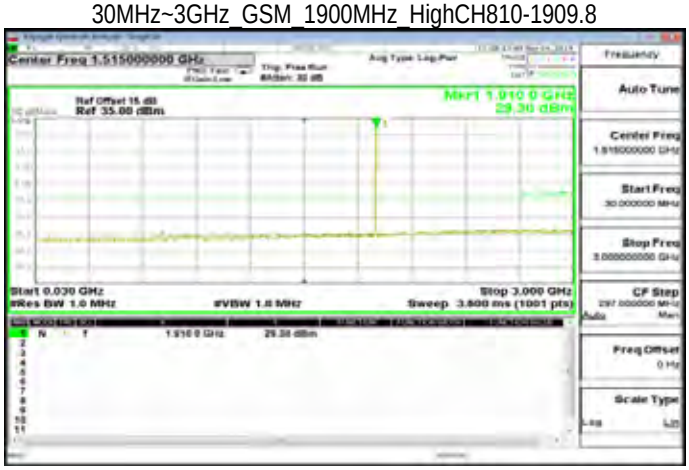
3GHz~10GHz_GSM_1900MHz_MidCH661-1880



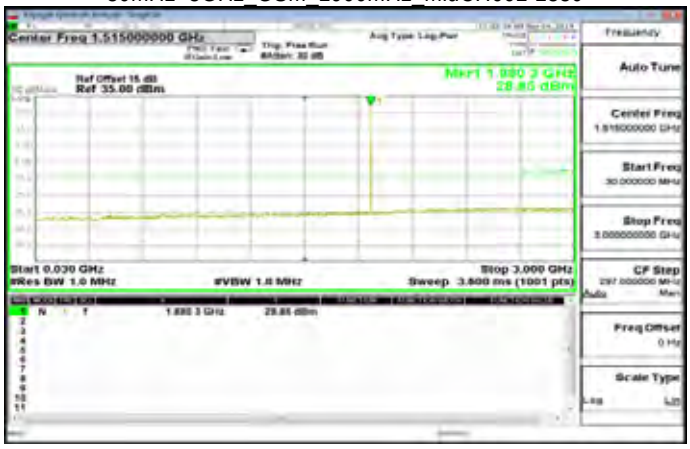
3GHz~10GHz_GSM_1900MHz_LowCH512-1850.2



30MHz~3GHz_GSM_1900MHz_HighCH810-1909.8



30MHz~3GHz_GSM_1900MHz_MidCH661-1880



3GHz~10GHz_GSM_1900MHz_HighCH810-1909.8

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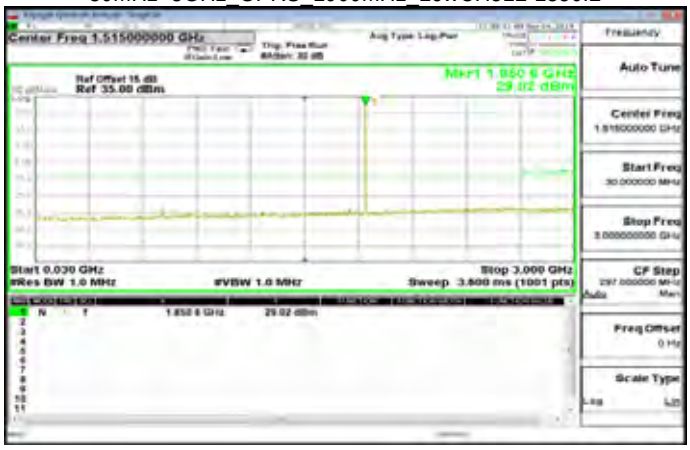
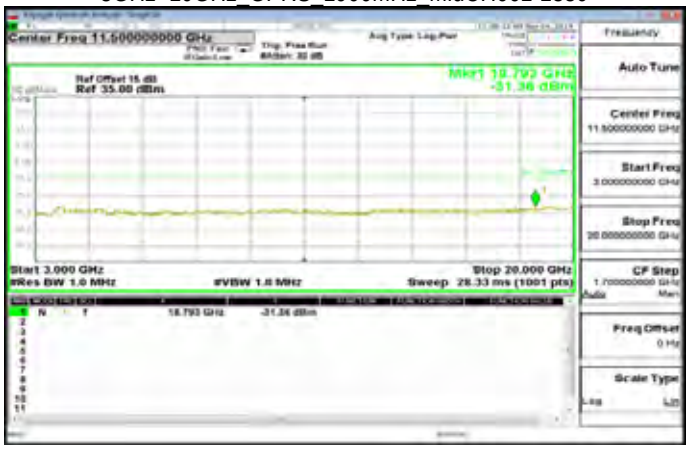
30MHz~3GHz_GPRS_1900MHz_LowCH512-1850.2



3GHz~10GHz_GPRS_1900MHz_MidCH661-1880



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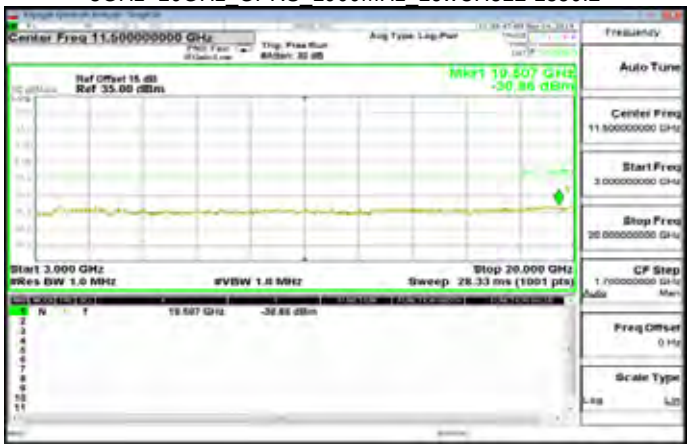
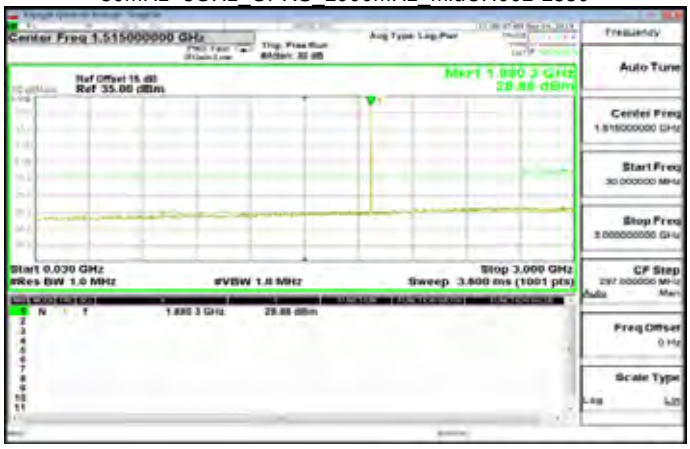


30MHz~3GHz_GPRS_1900MHz_HighCH810-1909.8

30MHz~3GHz_GPRS_1900MHz_MidCH661-1880



3GHz~10GHz_GPRS_1900MHz_HighCH810-1909.8

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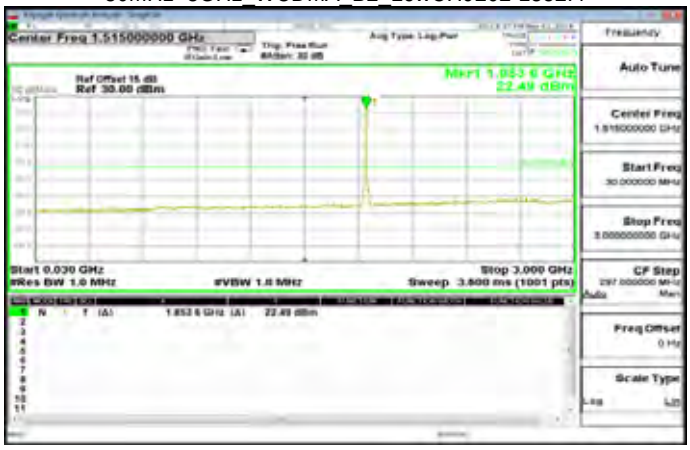
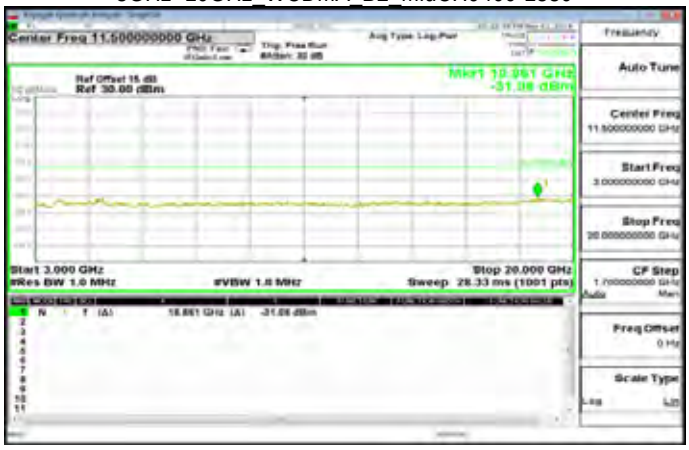
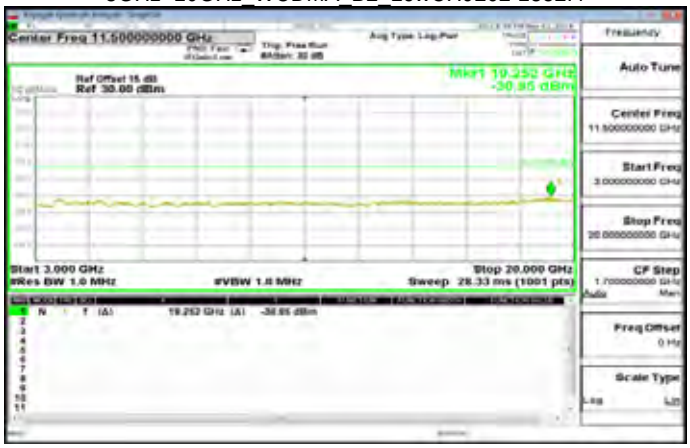
30MHz~3GHz_WCDMA_B2_LowCH9262-1852.4



3GHz~10GHz_WCDMA_B2_MidCH9400-1880

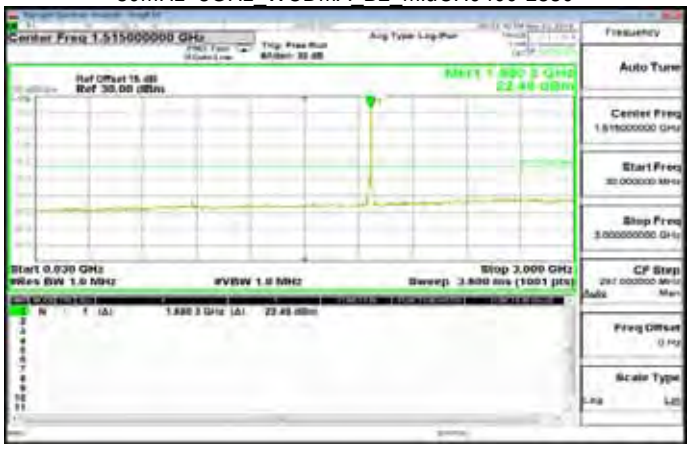


3GHz~10GHz_WCDMA_B2_LowCH9262-1852.4



30MHz~3GHz_WCDMA_B2_HighCH9538-1907.6

30MHz~3GHz_WCDMA_B2_MidCH9400-1880



3GHz~10GHz_WCDMA_B2_HighCH9538-1907.6

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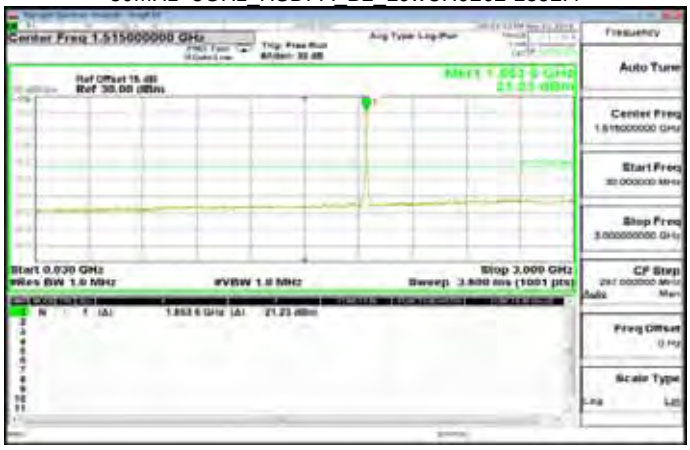
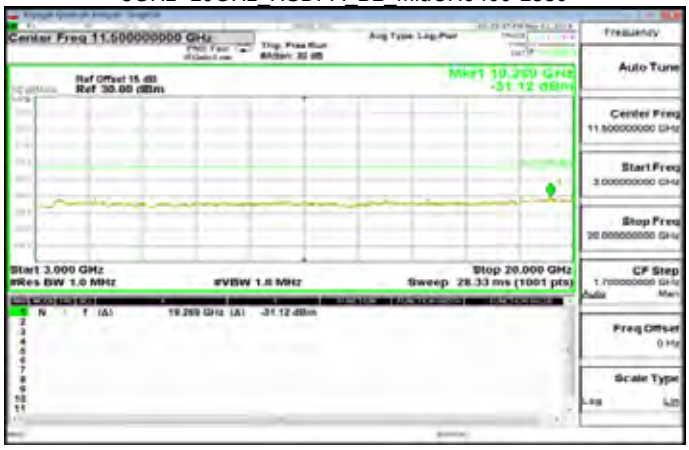
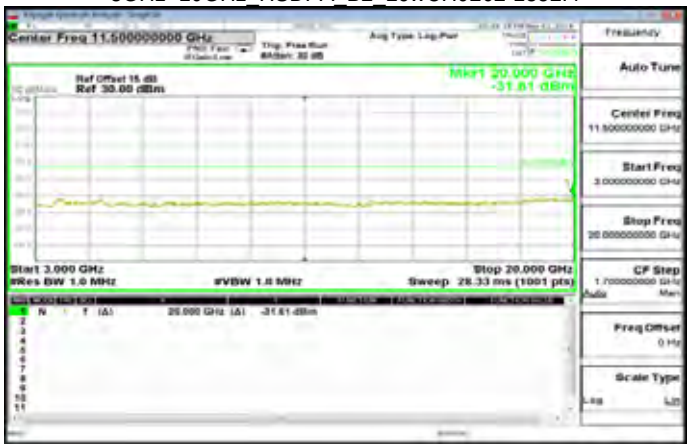
30MHz~3GHz_HSDPA_B2_LowCH9262-1852.4



3GHz~10GHz_HSDPA_B2_MidCH9400-1880

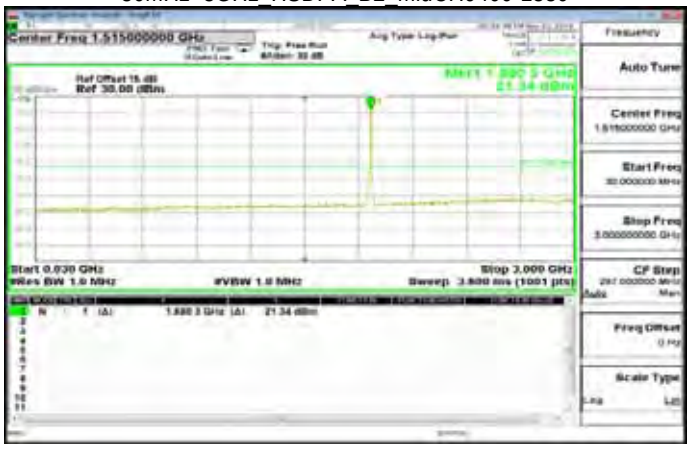


3GHz~10GHz_HSDPA_B2_LowCH9262-1852.4



30MHz~3GHz_HSDPA_B2_HighCH9538-1907.6

30MHz~3GHz_HSDPA_B2_MidCH9400-1880



3GHz~10GHz_HSDPA_B2_HighCH9538-1907.6

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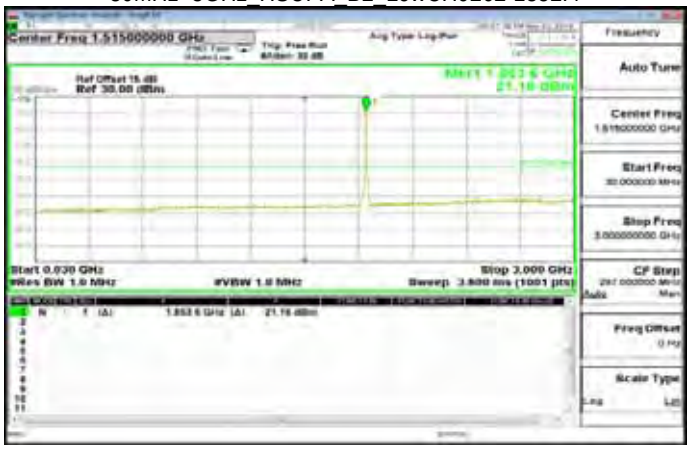
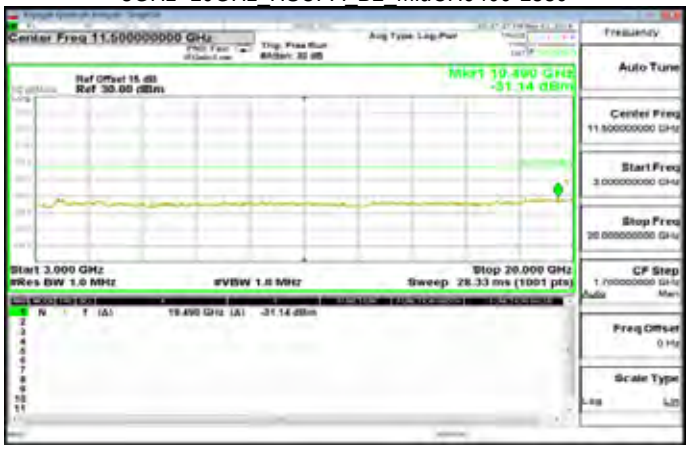
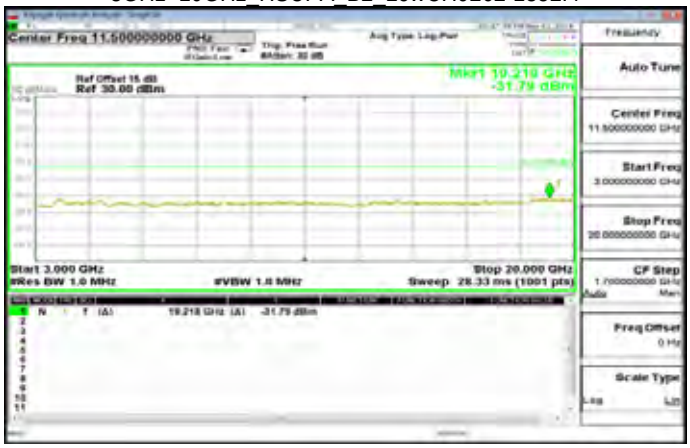
30MHz~3GHz_HSUPA_B2_LowCH9262-1852.4



3GHz~10GHz_HSUPA_B2_MidCH9400-1880

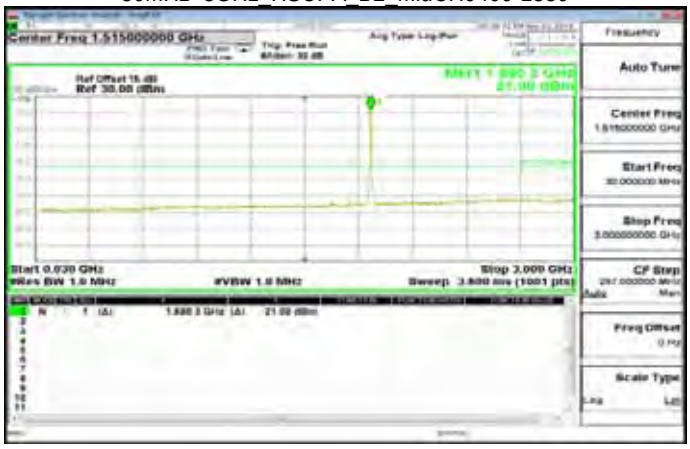


3GHz~10GHz_HSUPA_B2_LowCH9262-1852.4



30MHz~3GHz_HSUPA_B2_HighCH9538-1907.6

30MHz~3GHz_HSUPA_B2_MidCH9400-1880



3GHz~10GHz_HSUPA_B2_HighCH9538-1907.6

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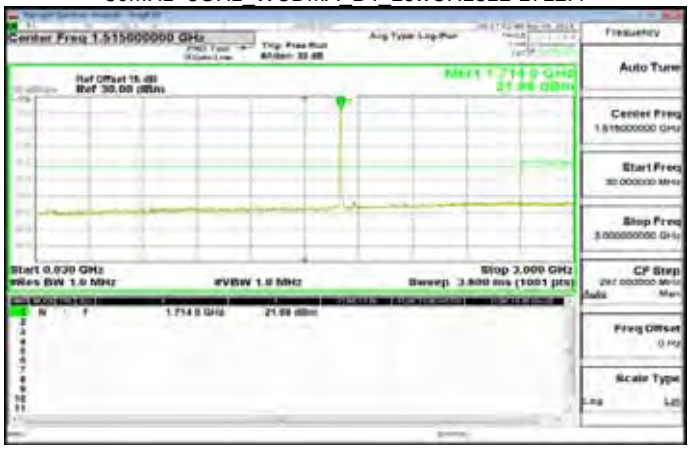
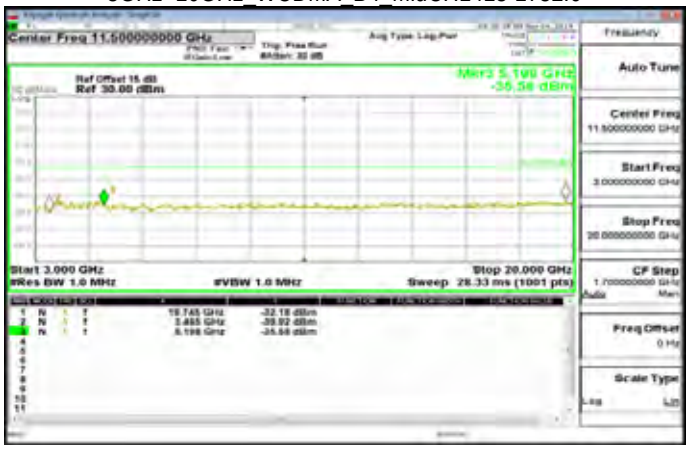
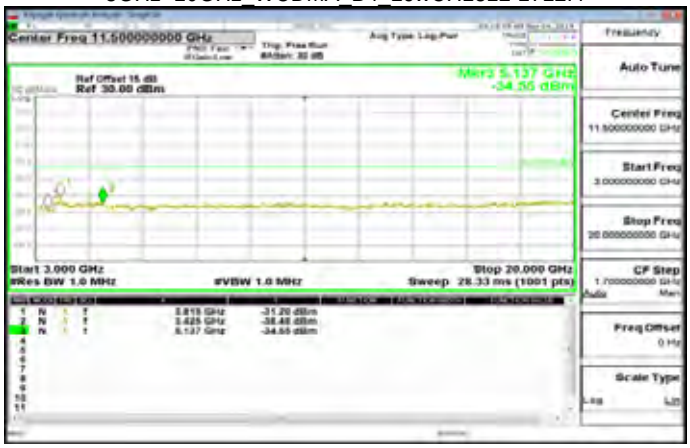
30MHz~3GHz_WCDMA_B4_LowCH1312-1712.4



3GHz~10GHz_WCDMA_B4_MidCH1413-1732.6

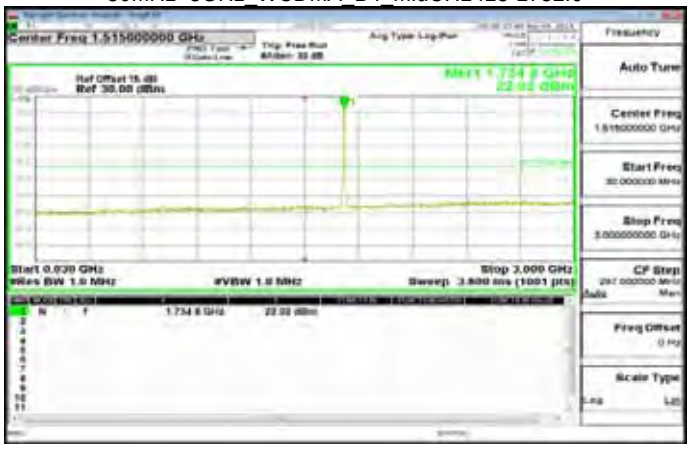


3GHz~10GHz_WCDMA_B4_LowCH1312-1712.4



30MHz~3GHz_WCDMA_B4_HighCH1513-1752.6

30MHz~3GHz_WCDMA_B4_MidCH1413-1732.6



3GHz~10GHz_WCDMA_B4_HighCH1513-1752.6

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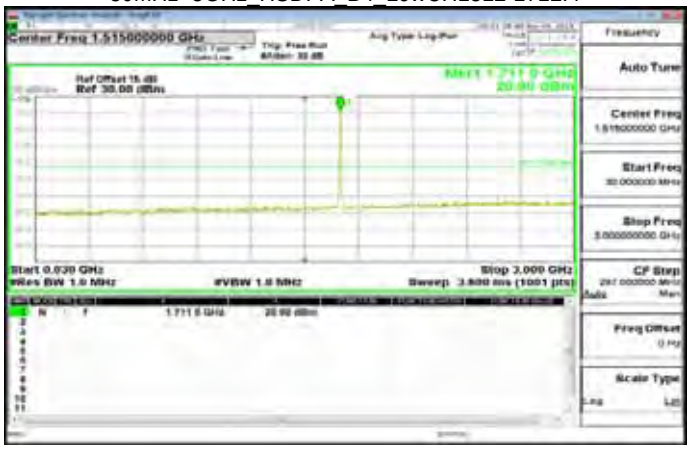
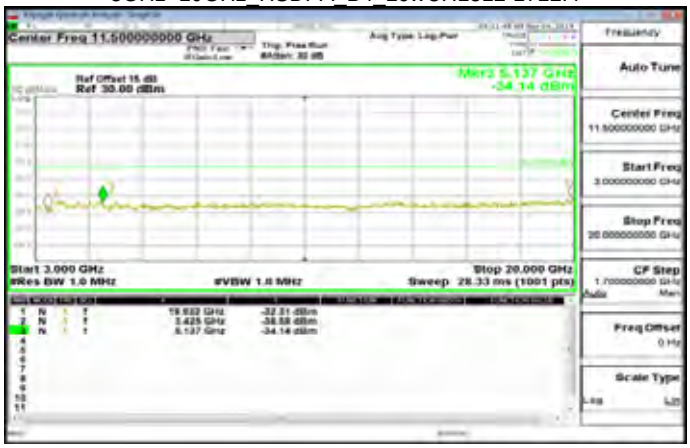
30MHz~3GHz_HSDPA_B4_LowCH1312-1712.4



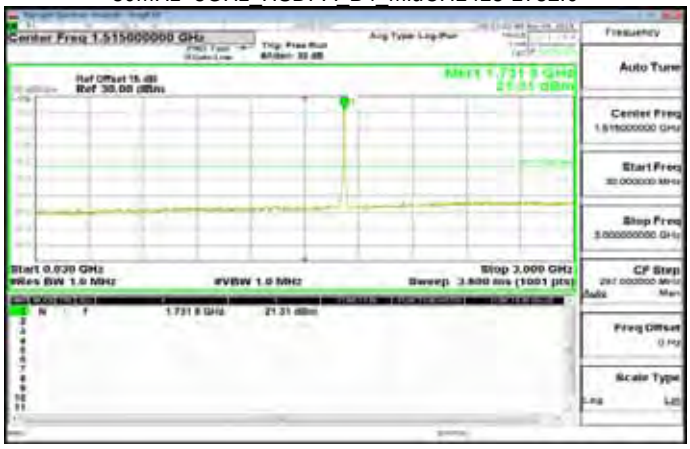
3GHz~10GHz_HSDPA_B4_MidCH1413-1732.6

3GHz~10GHz_HSDPA_B4_LowCH1312-1712.4



30MHz~3GHz_HSDPA_B4_HighCH1513-1752.6

30MHz~3GHz_HSDPA_B4_MidCH1413-1732.6



3GHz~10GHz_HSDPA_B4_HighCH1513-1752.6

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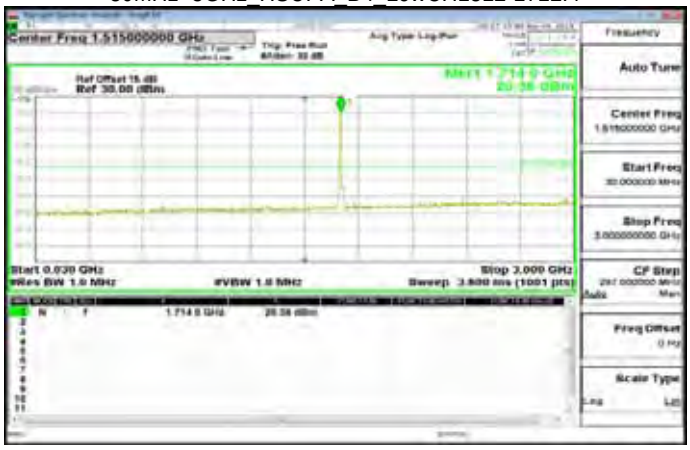
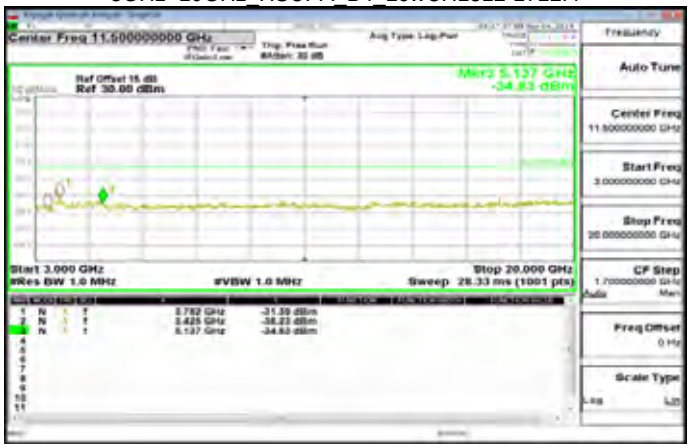
30MHz~3GHz_HSUPA_B4_LowCH1312-1712.4

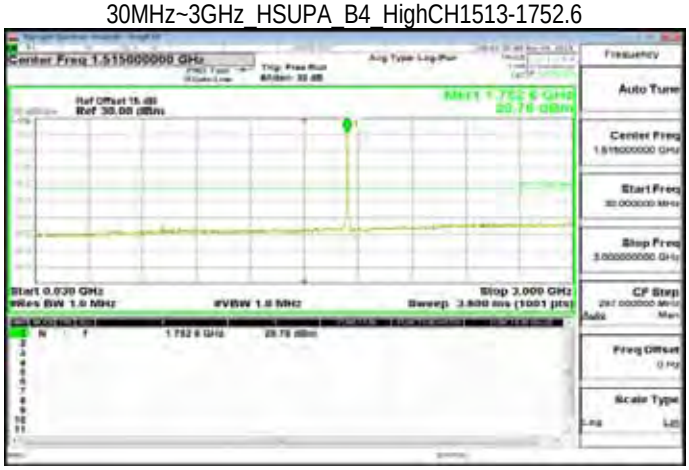


3GHz~10GHz_HSUPA_B4_MidCH1413-1732.6

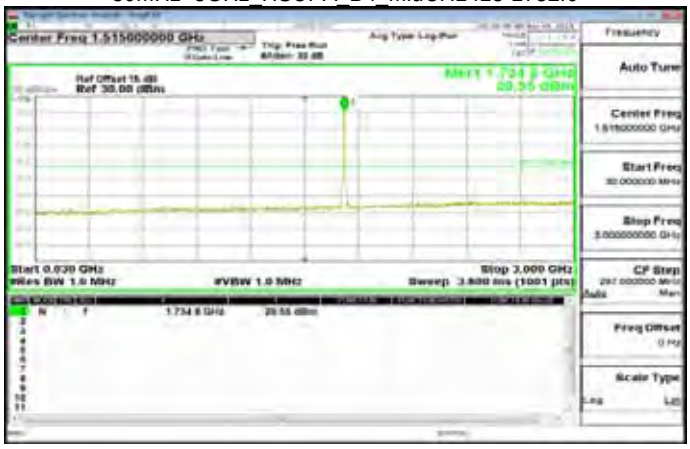
3GHz~10GHz_HSUPA_B4_LowCH1312-1712.4



30MHz~3GHz_HSUPA_B4_HighCH1513-1752.6



30MHz~3GHz_HSUPA_B4_MidCH1413-1732.6



3GHz~10GHz_HSUPA_B4_HighCH1513-1752.6

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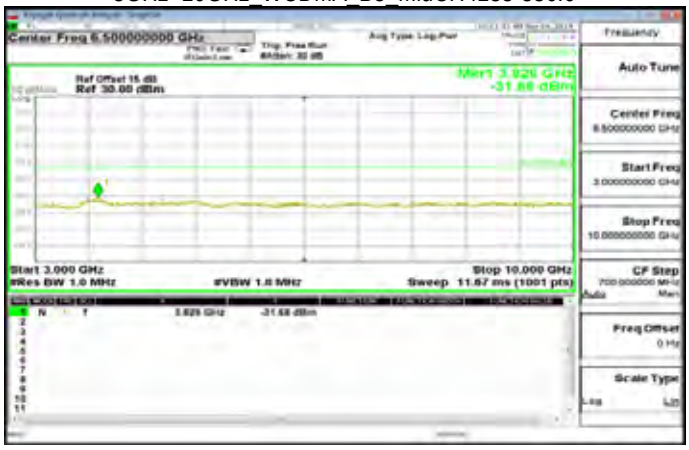
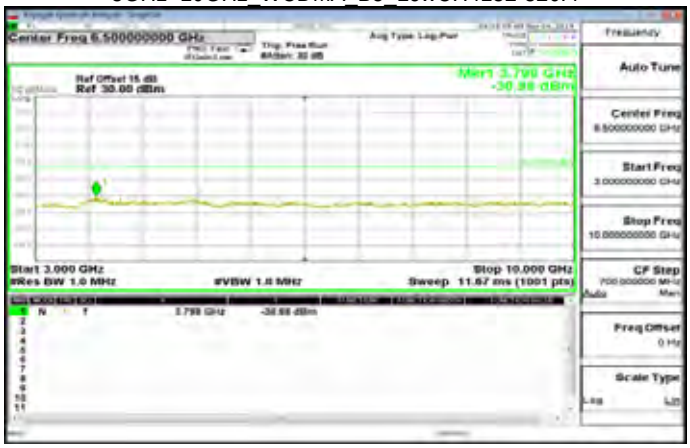
30MHz~3GHz_WCDMA_B5_LowCH4132-826.4

3GHz~10GHz_WCDMA_B5_MidCH4183-836.6

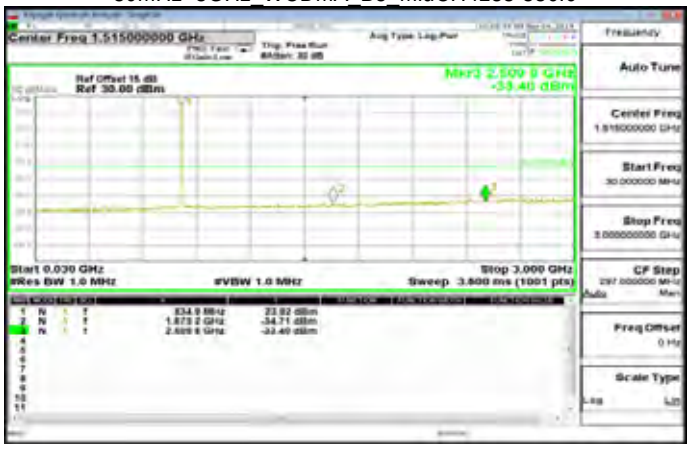


3GHz~10GHz_WCDMA_B5_LowCH4132-826.4



30MHz~3GHz_WCDMA_B5_HighCH4233-846.6

30MHz~3GHz_WCDMA_B5_MidCH4183-836.6



3GHz~10GHz_WCDMA_B5_HighCH4233-846.6

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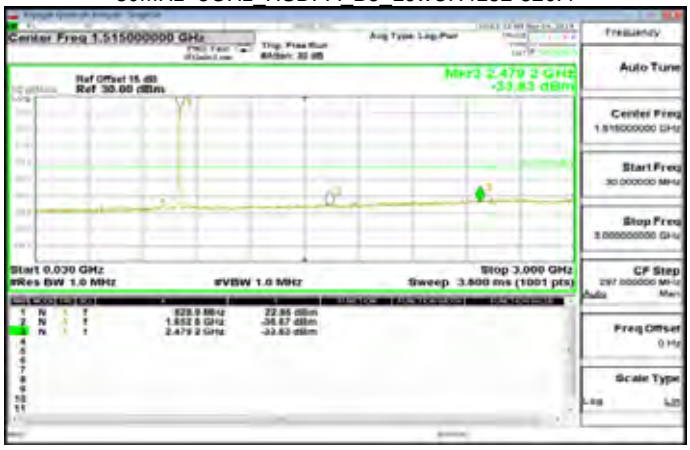
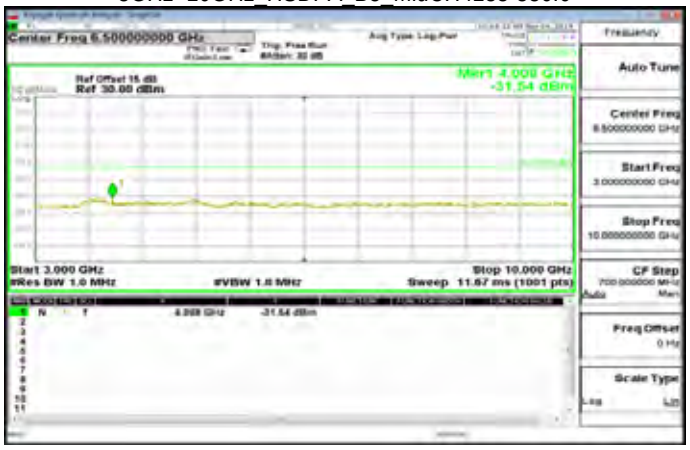
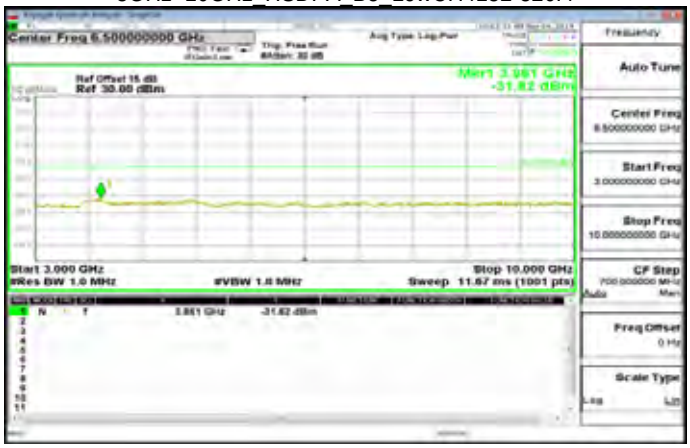
30MHz~3GHz_HSDPA_B5_LowCH4132-826.4



3GHz~10GHz_HSDPA_B5_MidCH4183-836.6

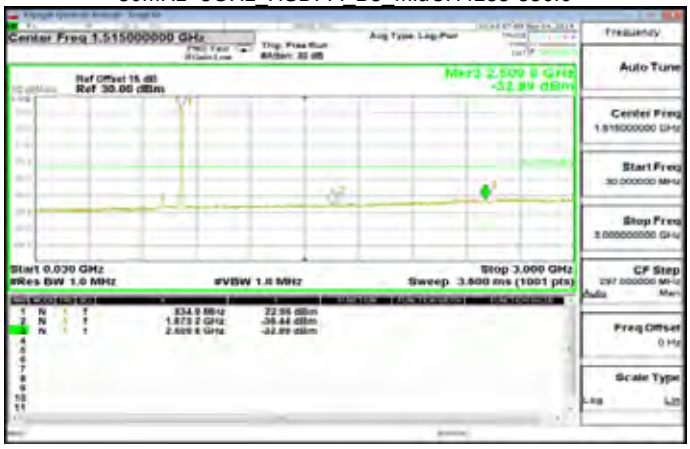


3GHz~10GHz_HSDPA_B5_LowCH4132-826.4



30MHz~3GHz_HSDPA_B5_HighCH4233-846.6

30MHz~3GHz_HSDPA_B5_MidCH4183-836.6



3GHz~10GHz_HSDPA_B5_HighCH4233-846.6

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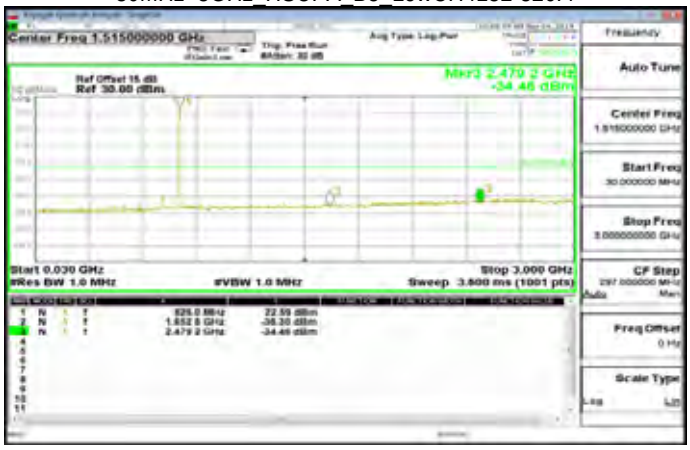
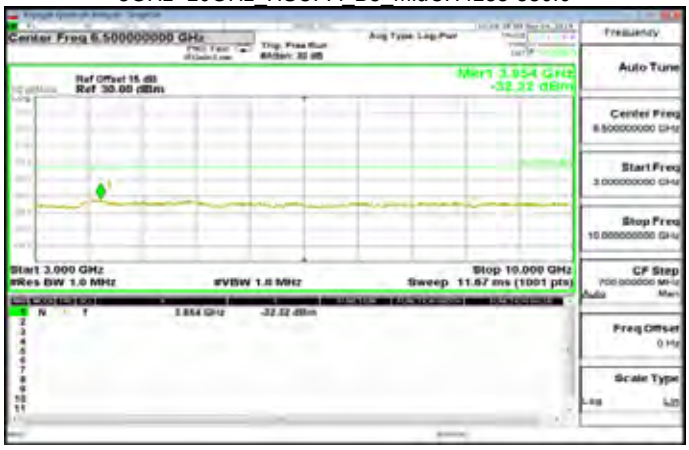
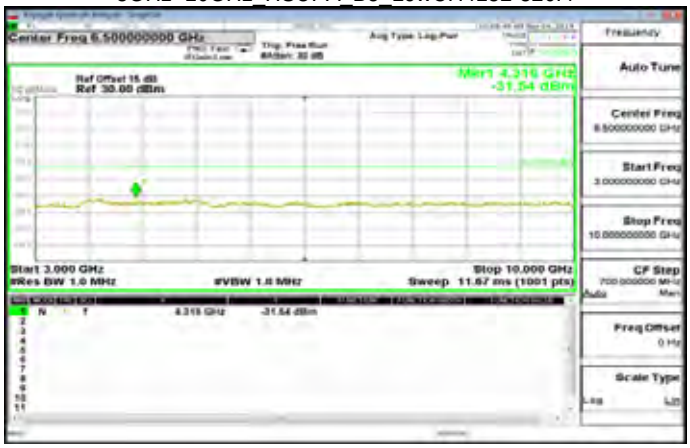
30MHz~3GHz_HSUPA_B5_LowCH4132-826.4



3GHz~10GHz_HSUPA_B5_MidCH4183-836.6

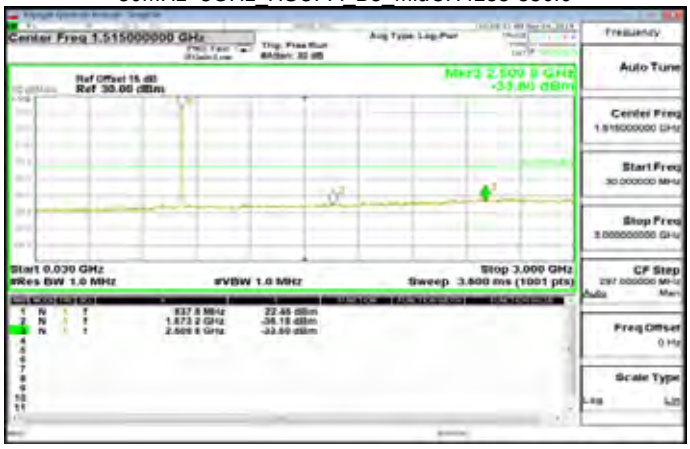


3GHz~10GHz_HSUPA_B5_LowCH4132-826.4



30MHz~3GHz_HSUPA_B5_HighCH4233-846.6

30MHz~3GHz_HSUPA_B5_MidCH4183-836.6



3GHz~10GHz_HSUPA_B5_HighCH4233-846.6

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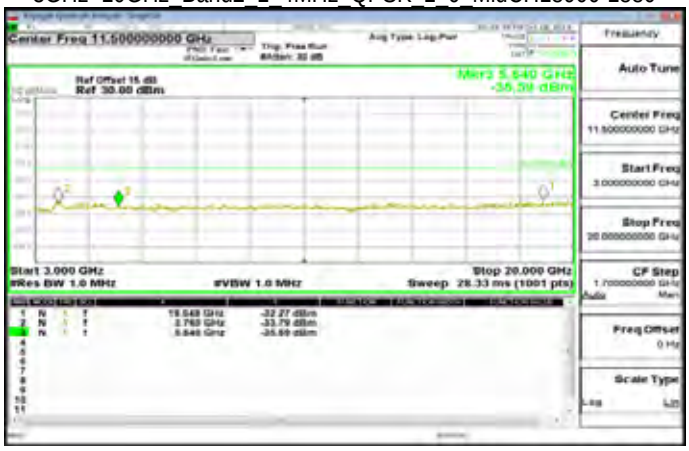
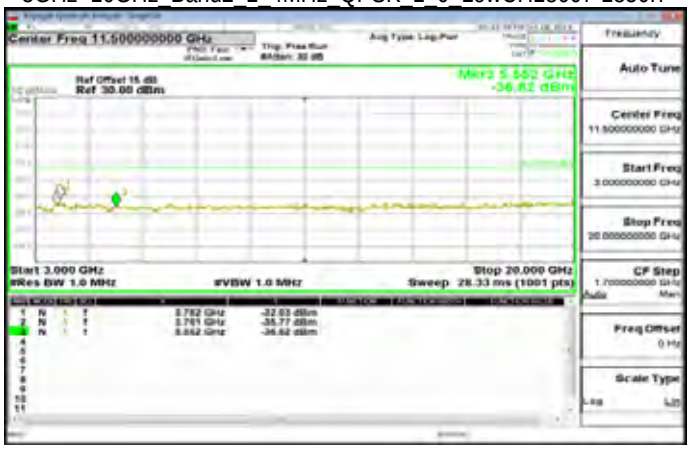
30MHz~3GHz_Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7

3GHz~10GHz_Band2_1_4MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_1_4MHz_QPSK_1_0_LowCH18607-1850.7



30MHz~3GHz_Band2_1_4MHz_QPSK_1_0_HighCH19193-1909.3

30MHz~3GHz_Band2_1_4MHz_QPSK_1_0_MidCH18900-1880

3GHz~10GHz_Band2_1_4MHz_QPSK_1_0_HighCH19193-1909.3

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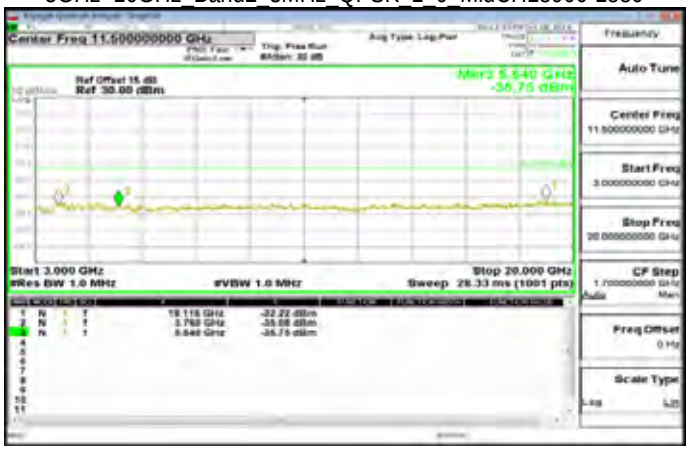
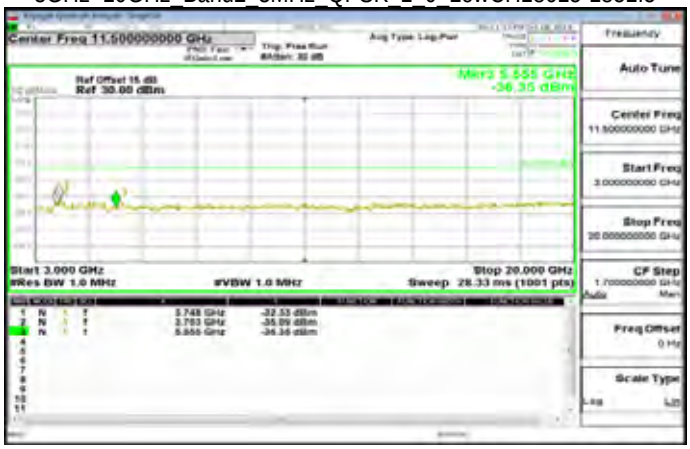
30MHz~3GHz_Band2_3MHz_QPSK_1_0_LowCH18615-1851.5

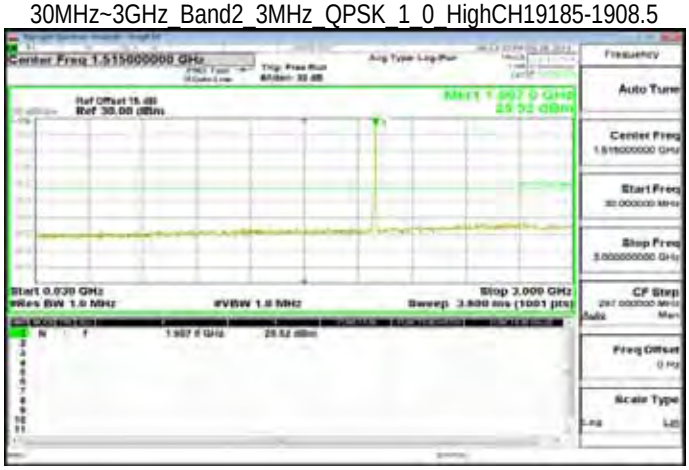
3GHz~10GHz_Band2_3MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_3MHz_QPSK_1_0_LowCH18615-1851.5



30MHz~3GHz_Band2_3MHz_QPSK_1_0_HighCH19185-1908.5



30MHz~3GHz_Band2_3MHz_QPSK_1_0_MidCH18900-1880

3GHz~10GHz_Band2_3MHz_QPSK_1_0_HighCH19185-1908.5

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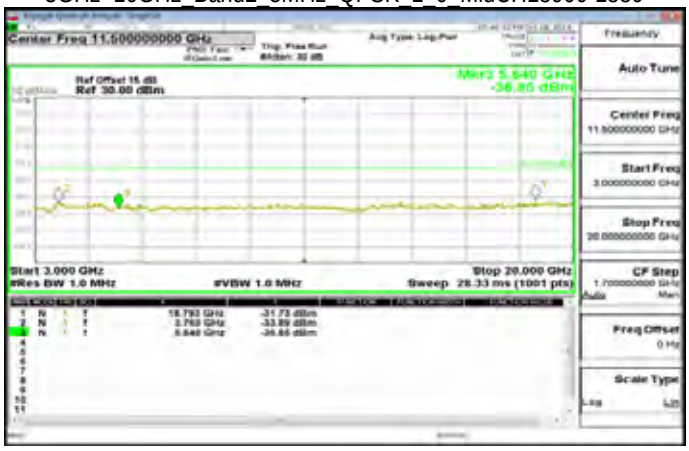
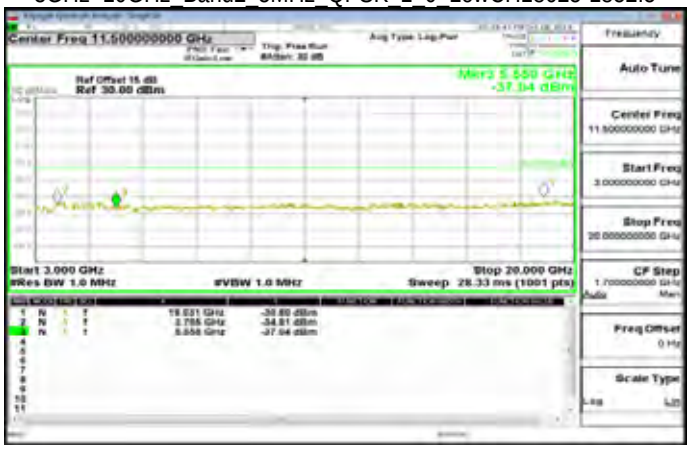
30MHz~3GHz_Band2_5MHz_QPSK_1_0_LowCH18625-1852.5

3GHz~10GHz_Band2_5MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_5MHz_QPSK_1_0_LowCH18625-1852.5



30MHz~3GHz_Band2_5MHz_QPSK_1_0_HighCH19175-1907.5

30MHz~3GHz_Band2_5MHz_QPSK_1_0_MidCH18900-1880

3GHz~10GHz_Band2_5MHz_QPSK_1_0_HighCH19175-1907.5

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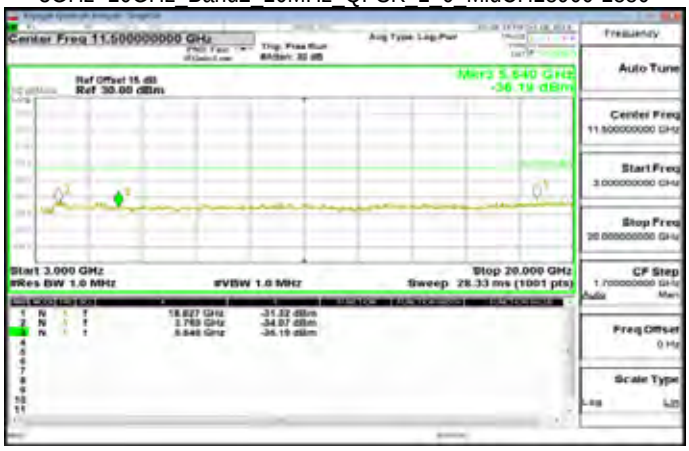
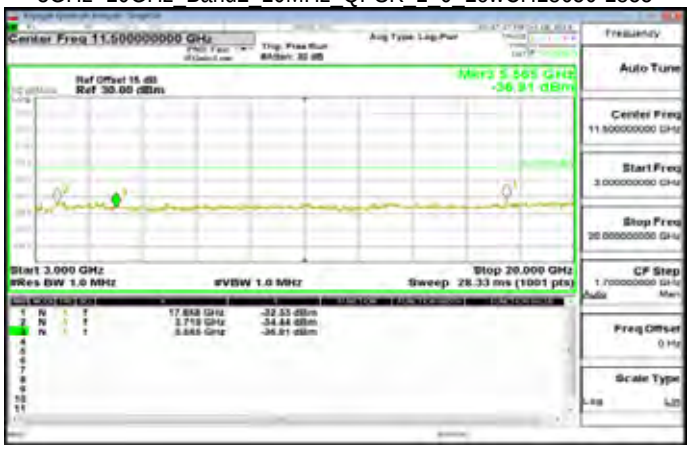
30MHz~3GHz_Band2_10MHz_QPSK_1_0_LowCH18650-1855

3GHz~10GHz_Band2_10MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_10MHz_QPSK_1_0_LowCH18650-1855



30MHz~3GHz_Band2_10MHz_QPSK_1_0_HighCH19150-1905

30MHz~3GHz_Band2_10MHz_QPSK_1_0_MidCH18900-1880

3GHz~10GHz_Band2_10MHz_QPSK_1_0_HighCH19150-1905

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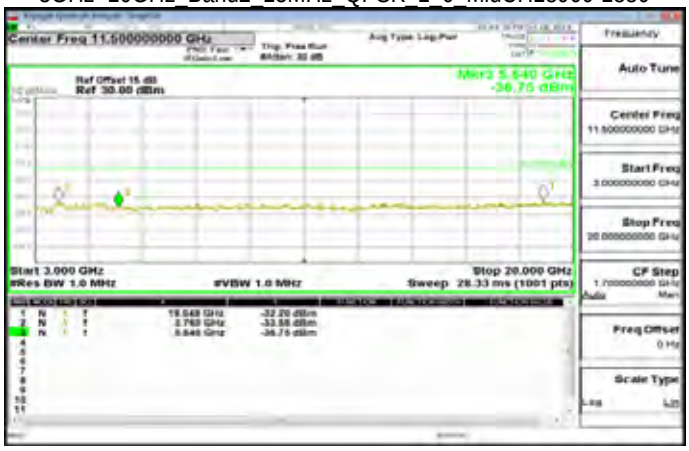
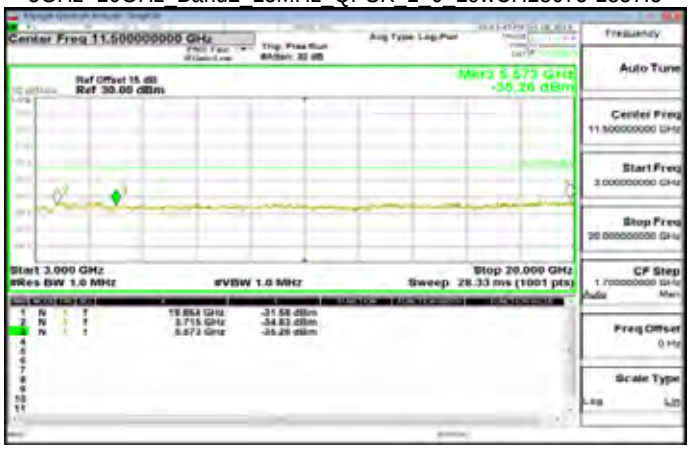
30MHz~3GHz_Band2_15MHz_QPSK_1_0_LowCH18675-1857.5

3GHz~10GHz_Band2_15MHz_QPSK_1_0_MidCH18900-1880



3GHz~10GHz_Band2_15MHz_QPSK_1_0_LowCH18675-1857.5



30MHz~3GHz_Band2_15MHz_QPSK_1_0_HighCH19125-1902.5

30MHz~3GHz_Band2_15MHz_QPSK_1_0_MidCH18900-1880

3GHz~10GHz_Band2_15MHz_QPSK_1_0_HighCH19125-1902.5

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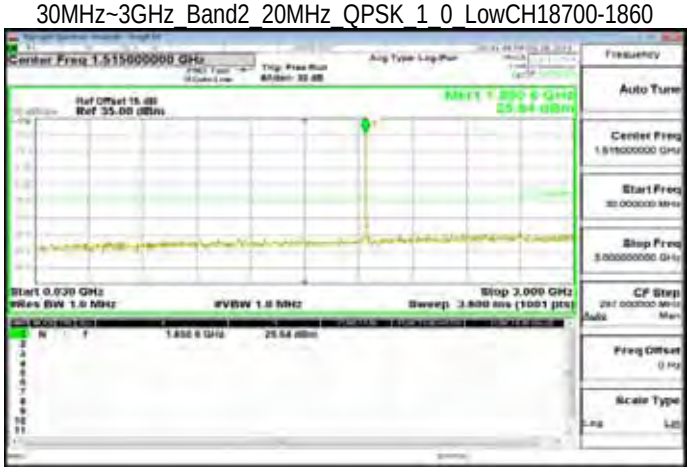
30MHz~3GHz_Band2_20MHz_QPSK_1_0_LowCH18700-1860



3GHz~10GHz_Band2_20MHz_QPSK_1_0_MidCH18900-1880

3GHz~10GHz_Band2_20MHz_QPSK_1_0_LowCH18700-1860

30MHz~3GHz_Band2_20MHz_QPSK_1_0_HighCH19100-1900

30MHz~3GHz_Band2_20MHz_QPSK_1_0_MidCH18900-1880

3GHz~10GHz_Band2_20MHz_QPSK_1_0_HighCH19100-1900

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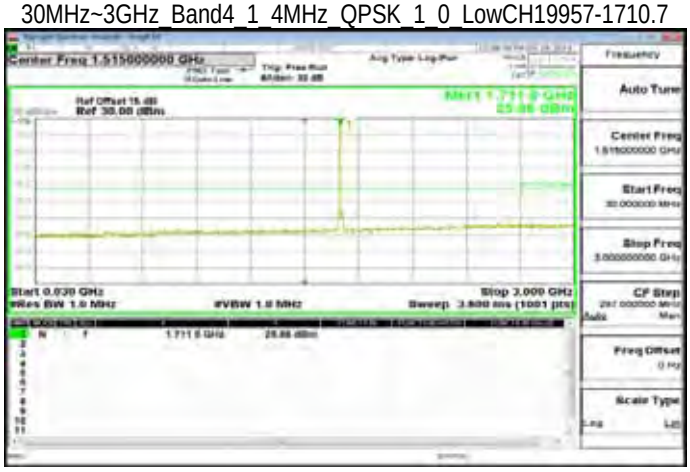
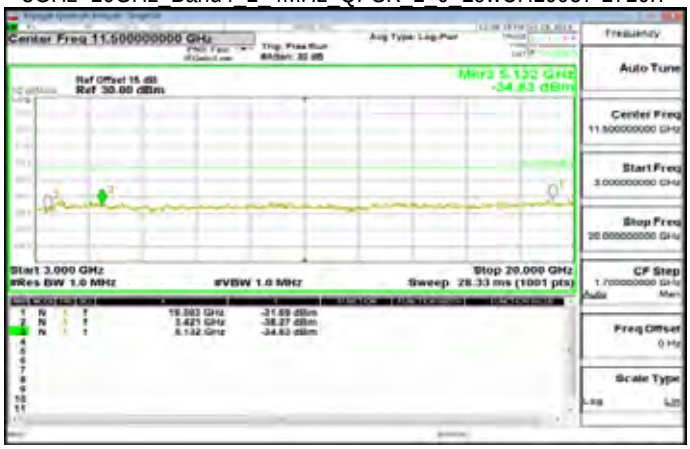
30MHz~3GHz_Band4_1_4MHz_QPSK_1_0_LowCH19957-1710.7



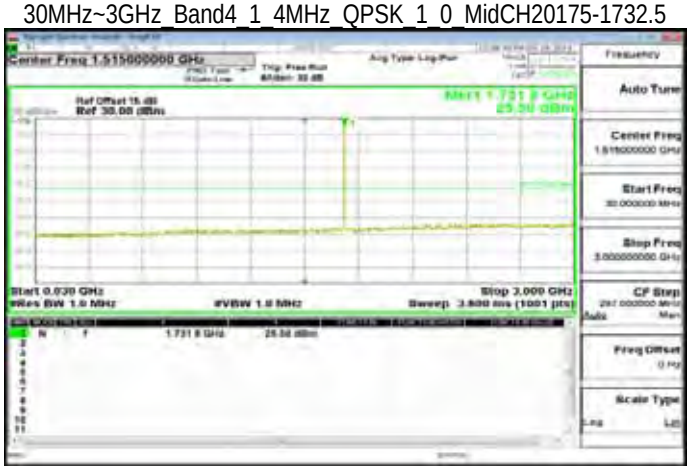
3GHz~10GHz_Band4_1_4MHz_QPSK_1_0_MidCH20175-1732.5

3GHz~10GHz_Band4_1_4MHz_QPSK_1_0_LowCH19957-1710.7



30MHz~3GHz_Band4_1_4MHz_QPSK_1_0_HighCH20393-1754.3

30MHz~3GHz_Band4_1_4MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_1_4MHz_QPSK_1_0_HighCH20393-1754.3

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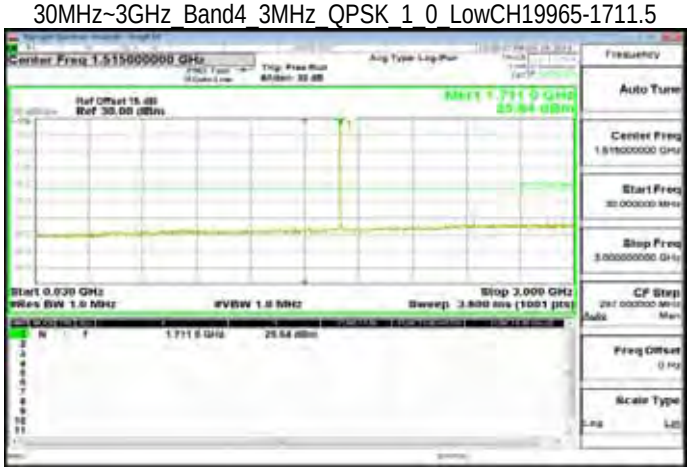
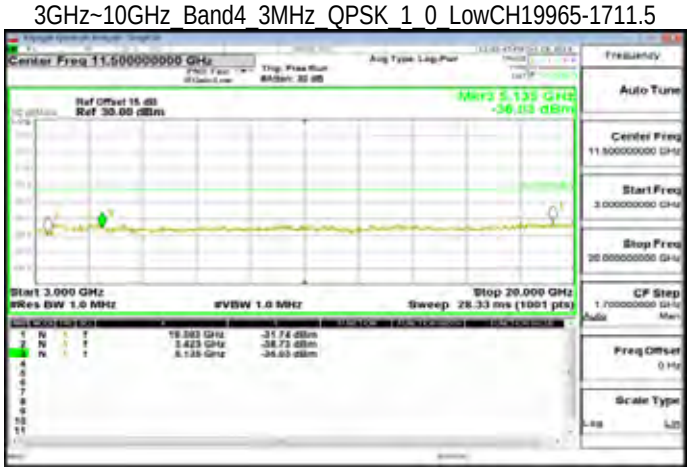
30MHz~3GHz_Band4_3MHz_QPSK_1_0_LowCH19965-1711.5

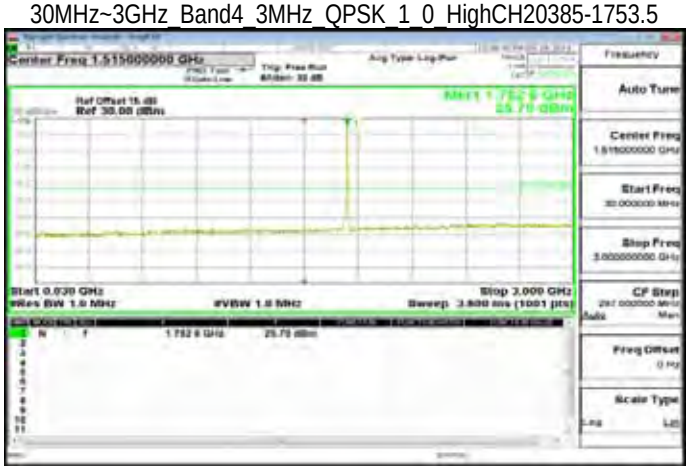


3GHz~10GHz_Band4_3MHz_QPSK_1_0_MidCH20175-1732.5

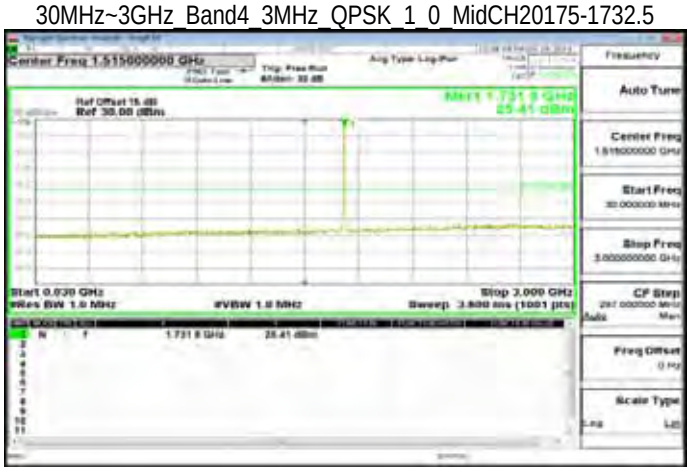
3GHz~10GHz_Band4_3MHz_QPSK_1_0_LowCH19965-1711.5



30MHz~3GHz_Band4_3MHz_QPSK_1_0_HighCH20385-1753.5



30MHz~3GHz_Band4_3MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_3MHz_QPSK_1_0_HighCH20385-1753.5

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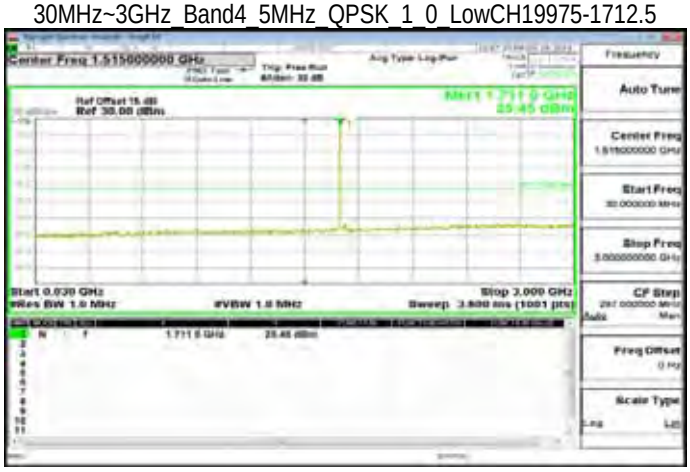
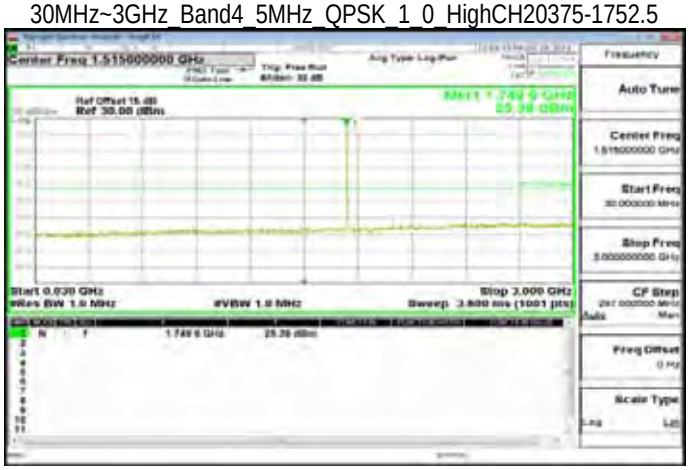
30MHz~3GHz_Band4_5MHz_QPSK_1_0_LowCH19975-1712.5



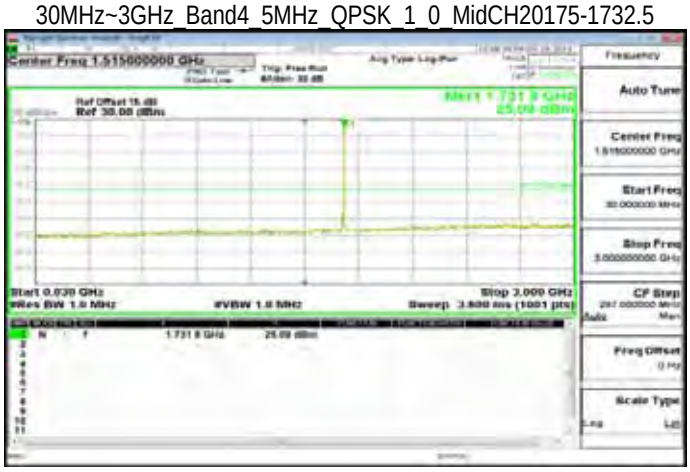
3GHz~10GHz_Band4_5MHz_QPSK_1_0_MidCH20175-1732.5

3GHz~10GHz_Band4_5MHz_QPSK_1_0_LowCH19975-1712.5

30MHz~3GHz_Band4_5MHz_QPSK_1_0_HighCH20375-1752.5



30MHz~3GHz_Band4_5MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_5MHz_QPSK_1_0_HighCH20375-1752.5

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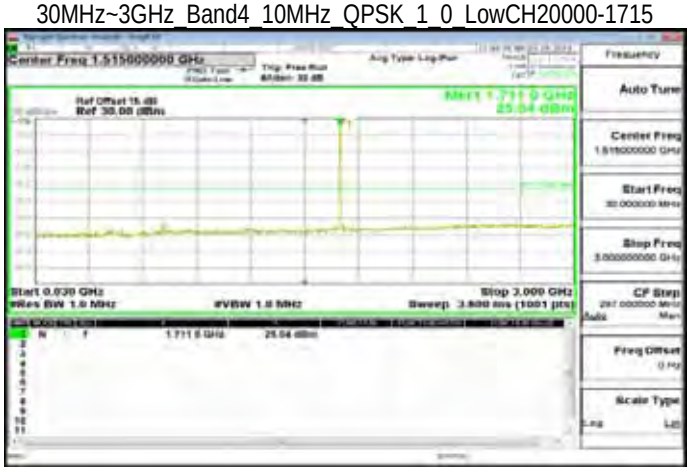
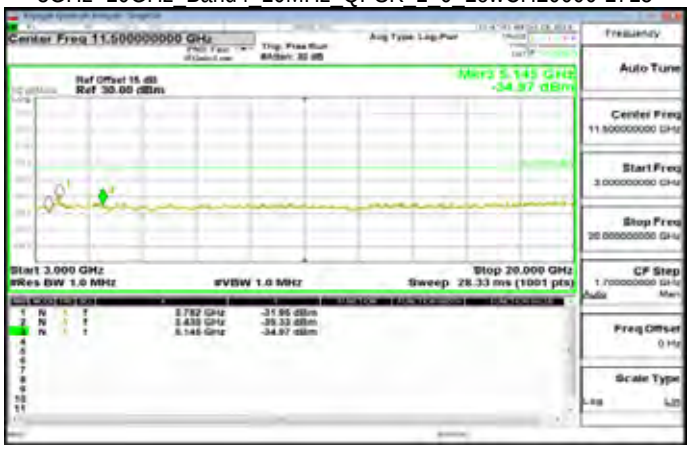
30MHz~3GHz_Band4_10MHz_QPSK_1_0_LowCH20000-1715



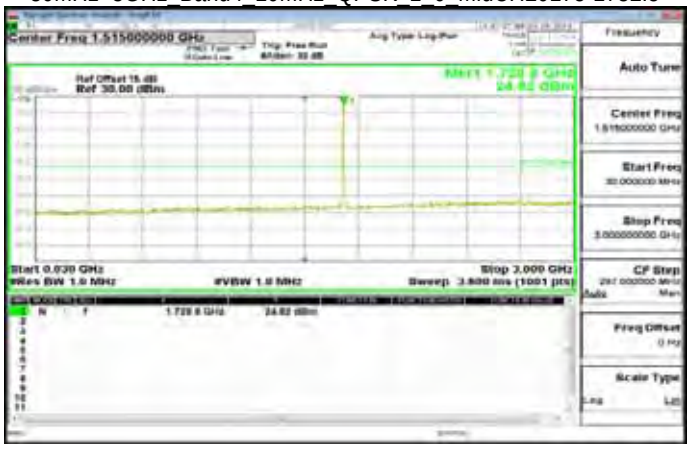
3GHz~10GHz_Band4_10MHz_QPSK_1_0_MidCH20175-1732.5

3GHz~10GHz_Band4_10MHz_QPSK_1_0_LowCH20000-1715

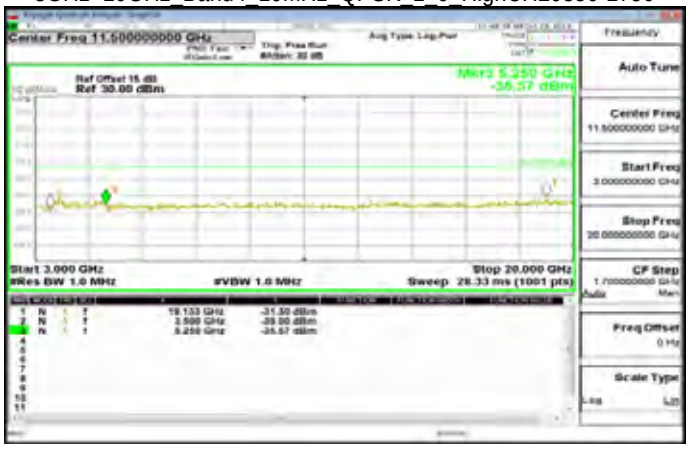


30MHz~3GHz_Band4_10MHz_QPSK_1_0_HighCH20350-1750

30MHz~3GHz_Band4_10MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_10MHz_QPSK_1_0_HighCH20350-1750



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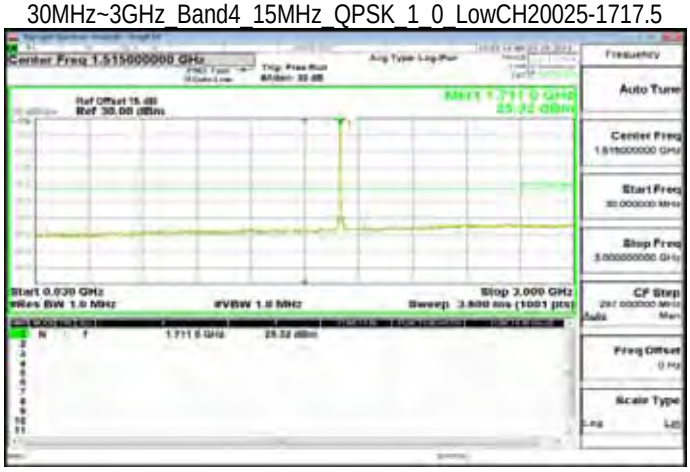
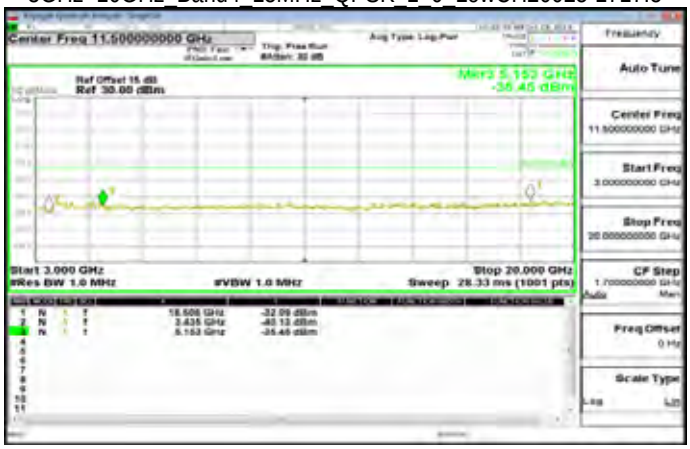
30MHz~3GHz_Band4_15MHz_QPSK_1_0_LowCH20025-1717.5

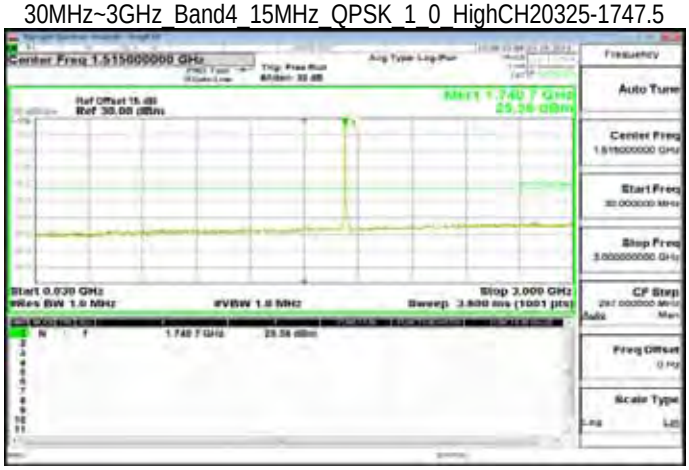


3GHz~10GHz_Band4_15MHz_QPSK_1_0_MidCH20175-1732.5

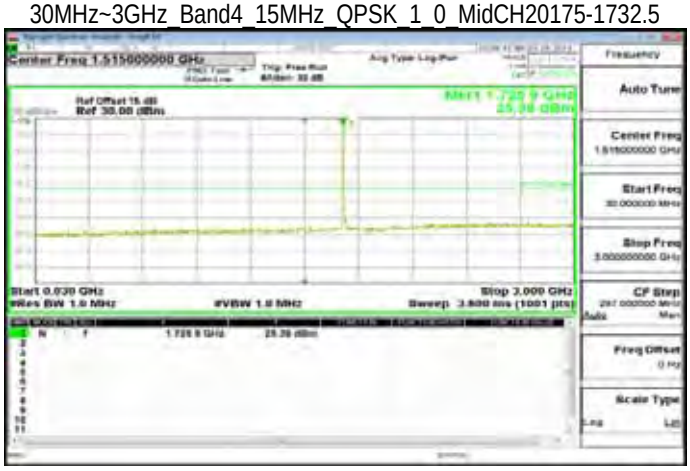
3GHz~10GHz_Band4_15MHz_QPSK_1_0_LowCH20025-1717.5



30MHz~3GHz_Band4_15MHz_QPSK_1_0_HighCH20325-1747.5



30MHz~3GHz_Band4_15MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_15MHz_QPSK_1_0_HighCH20325-1747.5

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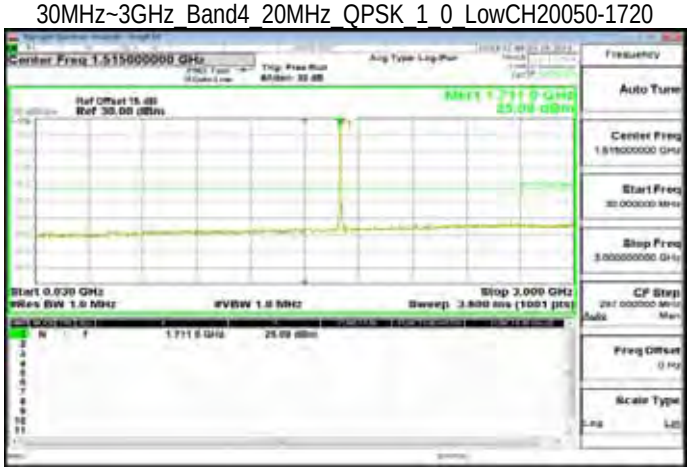
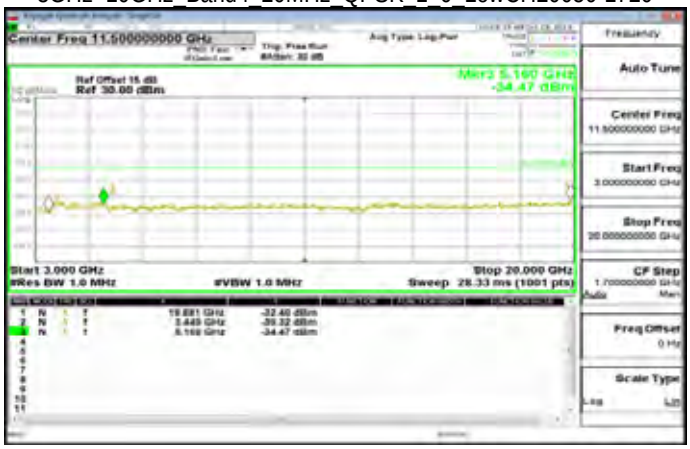
30MHz~3GHz_Band4_20MHz_QPSK_1_0_LowCH20050-1720



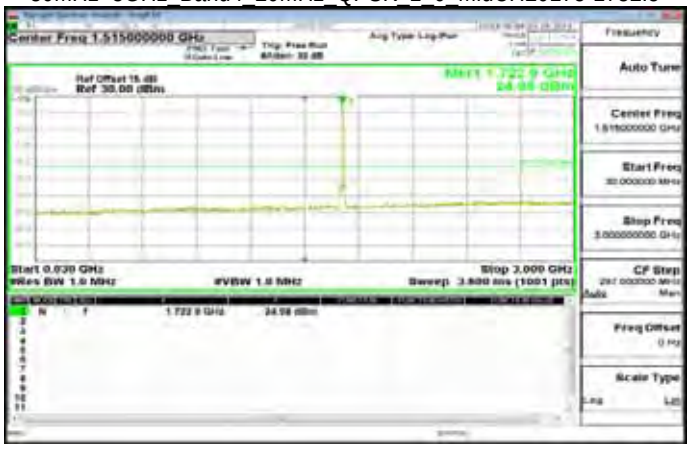
3GHz~10GHz_Band4_20MHz_QPSK_1_0_MidCH20175-1732.5

3GHz~10GHz_Band4_20MHz_QPSK_1_0_LowCH20050-1720

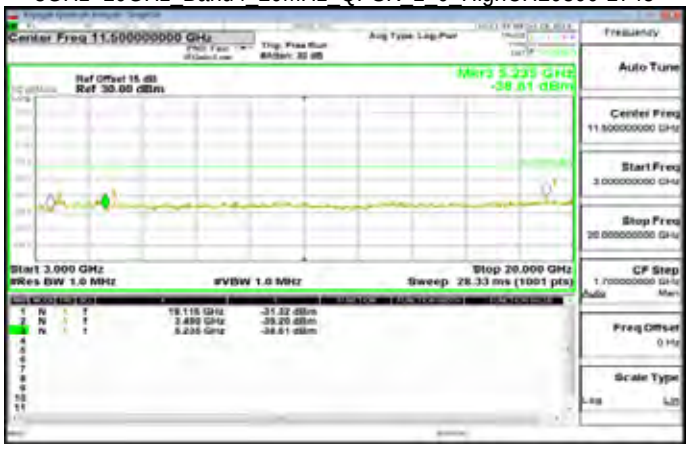


30MHz~3GHz_Band4_20MHz_QPSK_1_0_HighCH20300-1745

30MHz~3GHz_Band4_20MHz_QPSK_1_0_MidCH20175-1732.5



3GHz~10GHz_Band4_20MHz_QPSK_1_0_HighCH20300-1745



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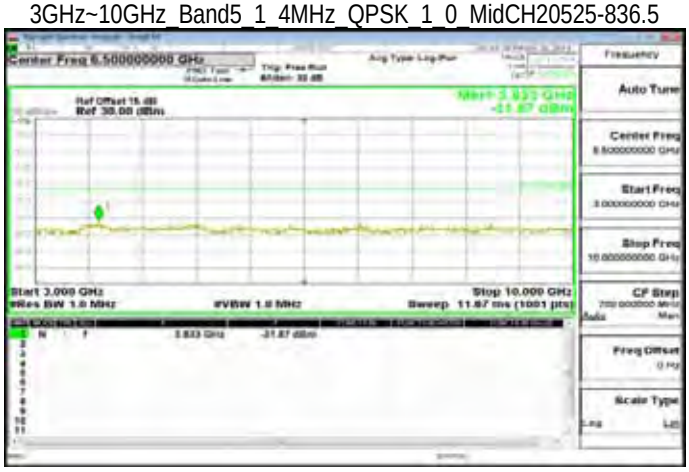
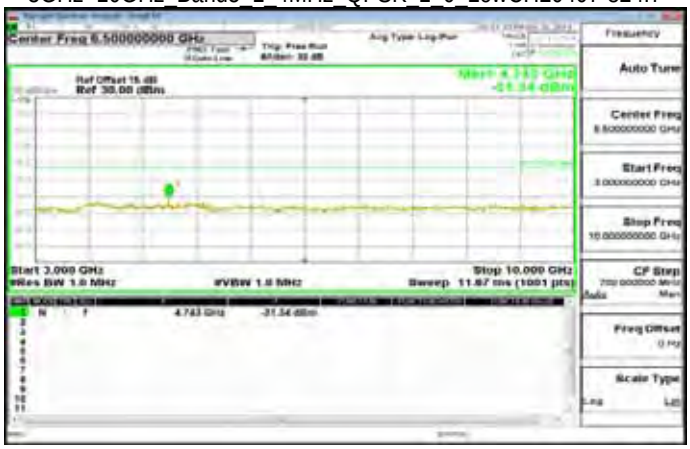
30MHz~3GHz_Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7

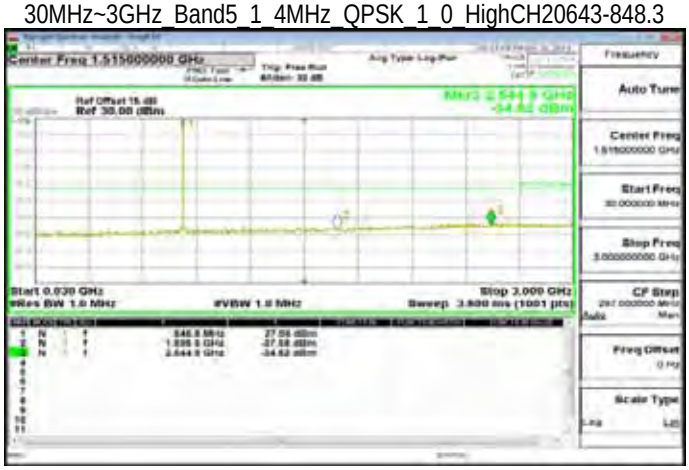
3GHz~10GHz_Band5_1_4MHz_QPSK_1_0_MidCH20525-836.5



3GHz~10GHz_Band5_1_4MHz_QPSK_1_0_LowCH20407-824.7

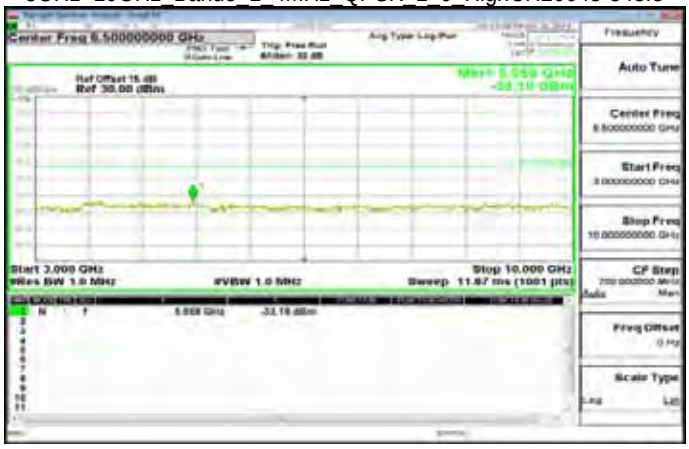


30MHz~3GHz_Band5_1_4MHz_QPSK_1_0_HighCH20643-848.3



30MHz~3GHz_Band5_1_4MHz_QPSK_1_0_MidCH20525-836.5

3GHz~10GHz_Band5_1_4MHz_QPSK_1_0_HighCH20643-848.3



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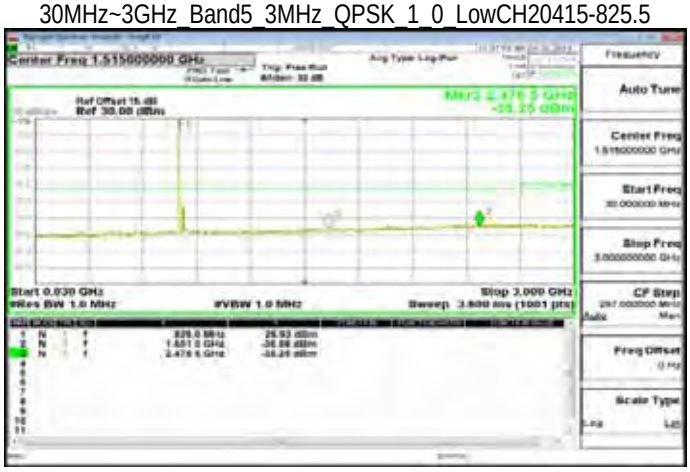
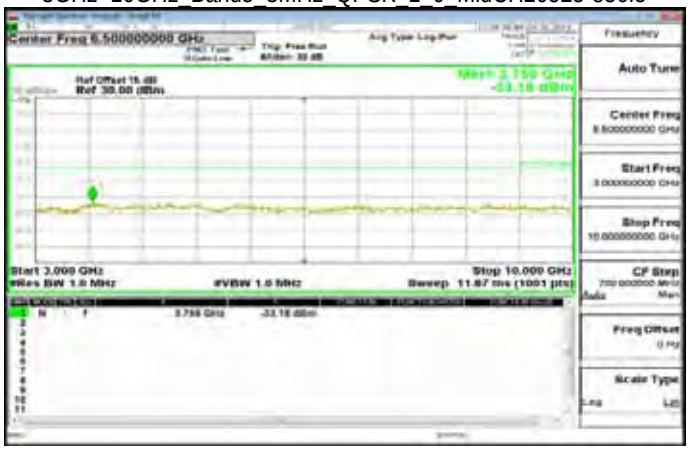
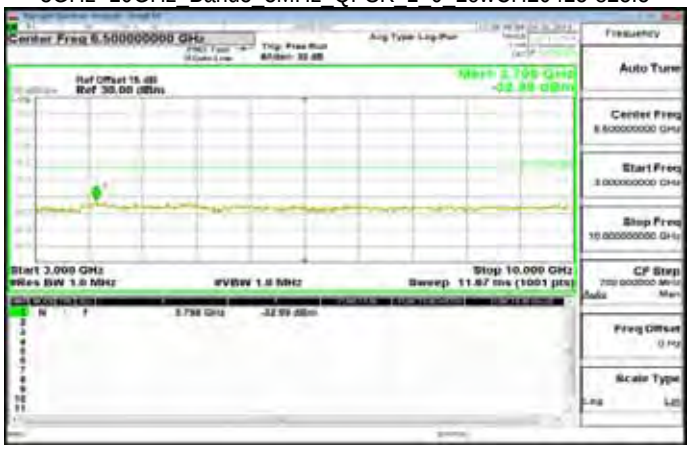
30MHz~3GHz_Band5_3MHz_QPSK_1_0_LowCH20415-825.5



3GHz~10GHz_Band5_3MHz_QPSK_1_0_MidCH20525-836.5



3GHz~10GHz_Band5_3MHz_QPSK_1_0_LowCH20415-825.5



30MHz~3GHz_Band5_3MHz_QPSK_1_0_HighCH20635-847.5

30MHz~3GHz_Band5_3MHz_QPSK_1_0_MidCH20525-836.5

3GHz~10GHz_Band5_3MHz_QPSK_1_0_HighCH20635-847.5

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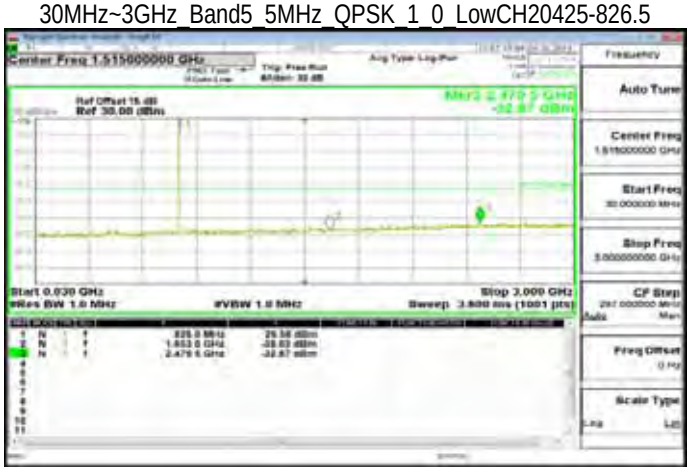
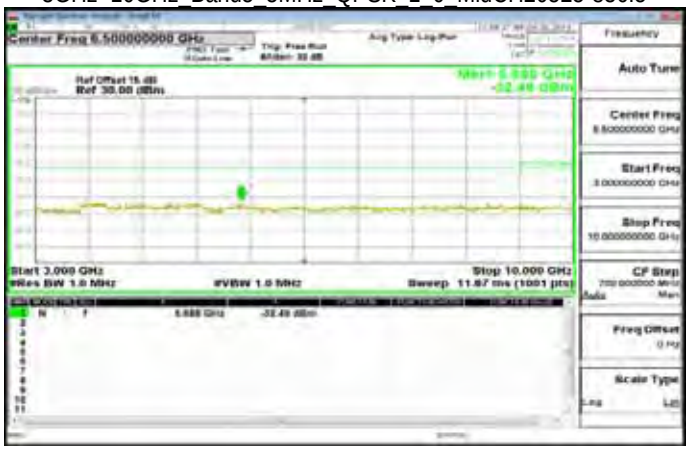
30MHz~3GHz_Band5_5MHz_QPSK_1_0_LowCH20425-826.5



3GHz~10GHz_Band5_5MHz_QPSK_1_0_MidCH20525-836.5

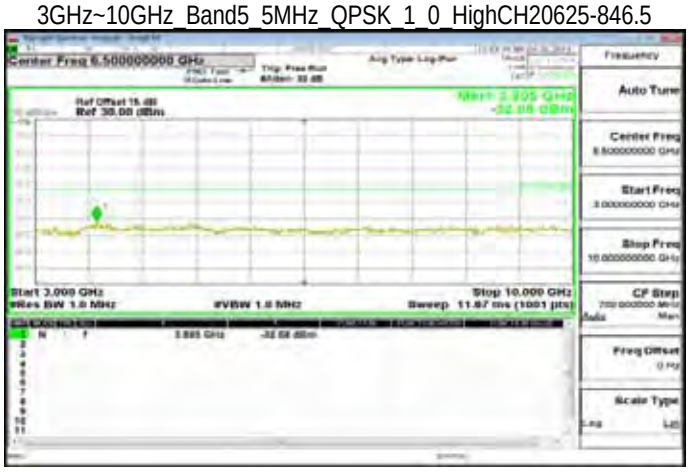


3GHz~10GHz_Band5_5MHz_QPSK_1_0_LowCH20425-826.5

30MHz~3GHz_Band5_5MHz_QPSK_1_0_HighCH20625-846.5

30MHz~3GHz_Band5_5MHz_QPSK_1_0_MidCH20525-836.5

3GHz~10GHz_Band5_5MHz_QPSK_1_0_HighCH20625-846.5



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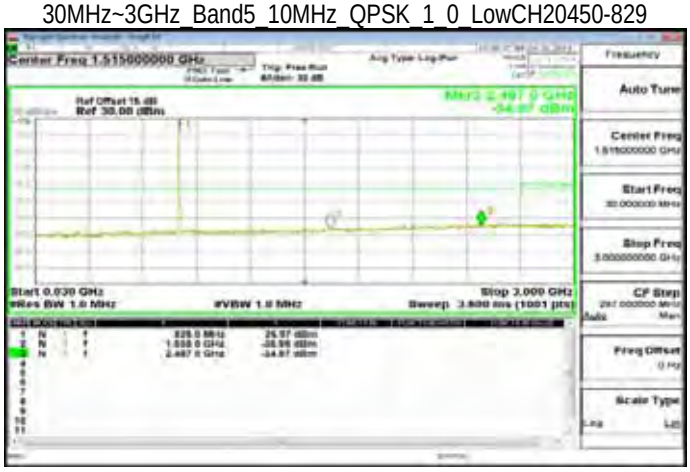
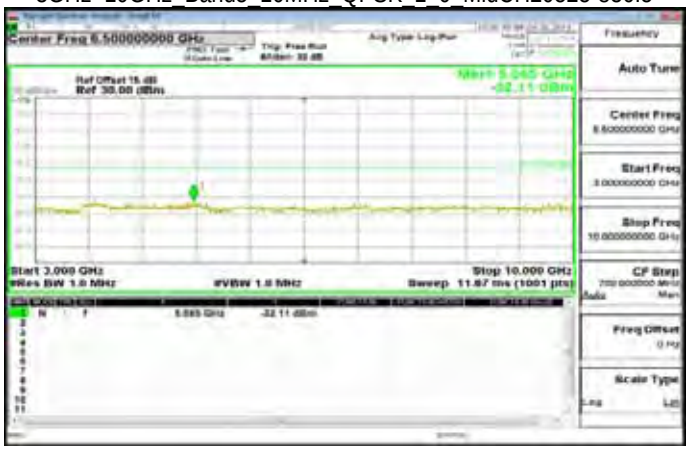
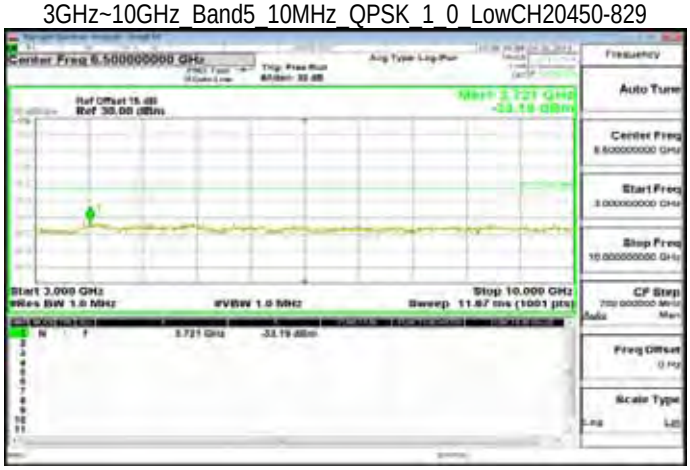
30MHz~3GHz_Band5_10MHz_QPSK_1_0_LowCH20450-829



3GHz~10GHz_Band5_10MHz_QPSK_1_0_MidCH20525-836.5

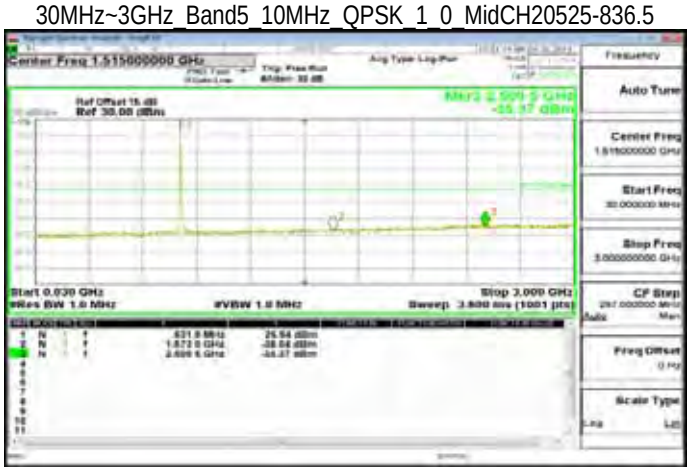


3GHz~10GHz_Band5_10MHz_QPSK_1_0_LowCH20450-829

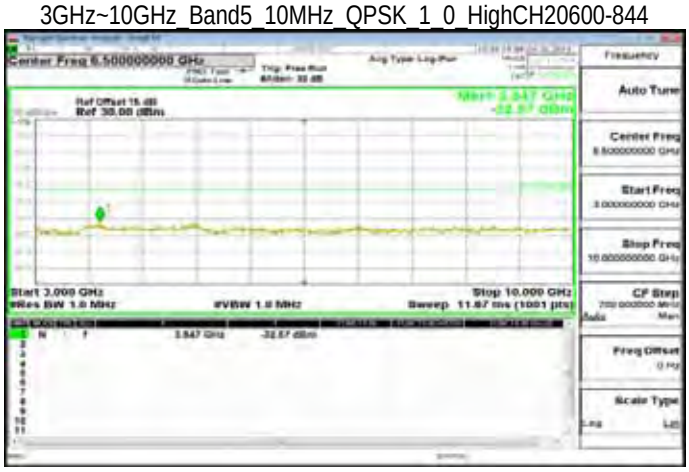


30MHz~3GHz_Band5_10MHz_QPSK_1_0_HighCH20600-844

30MHz~3GHz_Band5_10MHz_QPSK_1_0_MidCH20525-836.5



3GHz~10GHz_Band5_10MHz_QPSK_1_0_HighCH20600-844



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30MHz~3GHz_Band7_5MHz_QPSK_1_0_LowCH20775-2502.5

3GHz~10GHz_Band7_5MHz_QPSK_1_0_MidCH21100-2535

3GHz~10GHz_Band7_5MHz_QPSK_1_0_LowCH20775-2502.5

30MHz~3GHz_Band7_5MHz_QPSK_1_0_HighCH21425-2567.5

30MHz~3GHz_Band7_5MHz_QPSK_1_0_MidCH21100-2535

3GHz~10GHz_Band7_5MHz_QPSK_1_0_HighCH21425-2567.5

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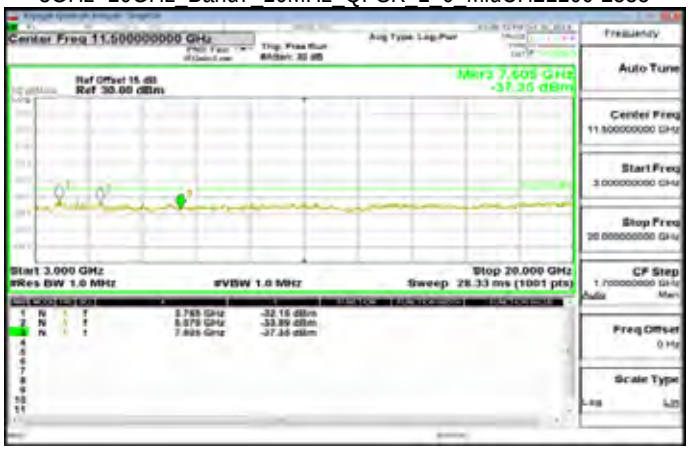
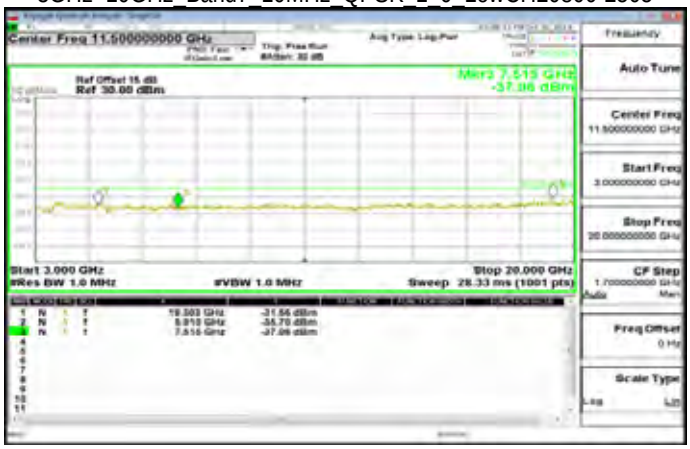
30MHz~3GHz_Band7_10MHz_QPSK_1_0_LowCH20800-2505

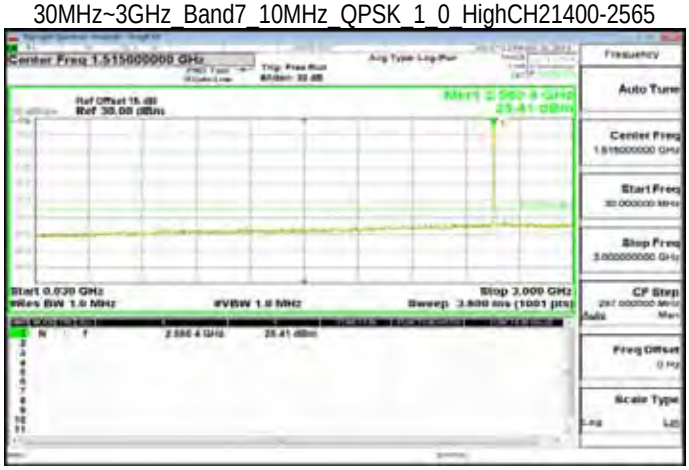
3GHz~10GHz_Band7_10MHz_QPSK_1_0_MidCH21100-2535



3GHz~10GHz_Band7_10MHz_QPSK_1_0_LowCH20800-2505



30MHz~3GHz_Band7_10MHz_QPSK_1_0_HighCH21400-2565



30MHz~3GHz_Band7_10MHz_QPSK_1_0_MidCH21100-2535

3GHz~10GHz_Band7_10MHz_QPSK_1_0_HighCH21400-2565

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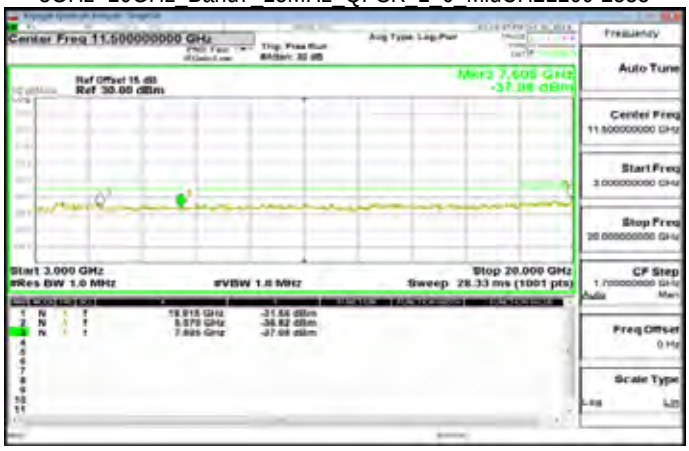
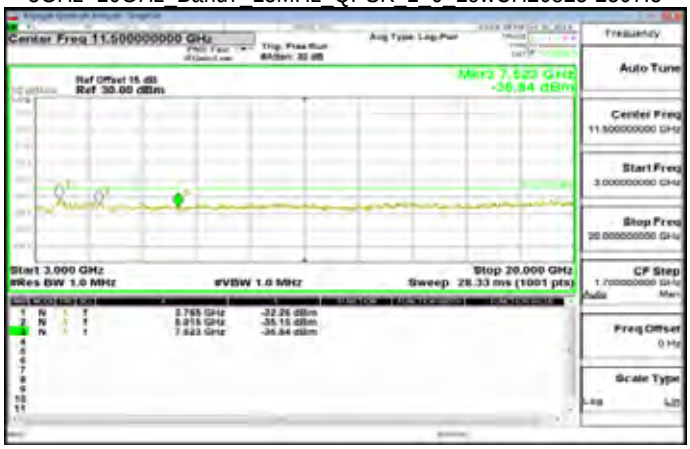
30MHz~3GHz_Band7_15MHz_QPSK_1_0_LowCH20825-2507.5

3GHz~10GHz_Band7_15MHz_QPSK_1_0_MidCH21100-2535



3GHz~10GHz_Band7_15MHz_QPSK_1_0_LowCH20825-2507.5



30MHz~3GHz_Band7_15MHz_QPSK_1_0_HighCH21375-2562.5

30MHz~3GHz_Band7_15MHz_QPSK_1_0_MidCH21100-2535

3GHz~10GHz_Band7_15MHz_QPSK_1_0_HighCH21375-2562.5

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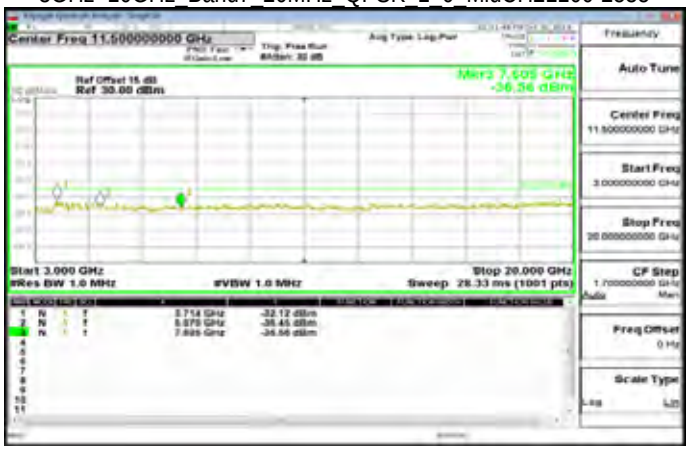
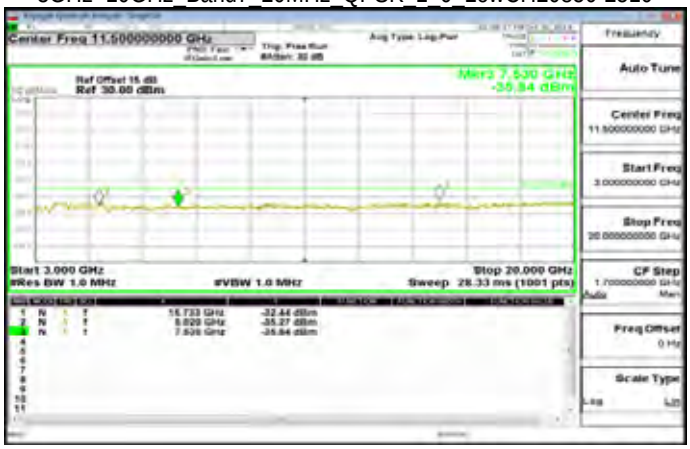
30MHz~3GHz_Band7_20MHz_QPSK_1_0_LowCH20850-2510

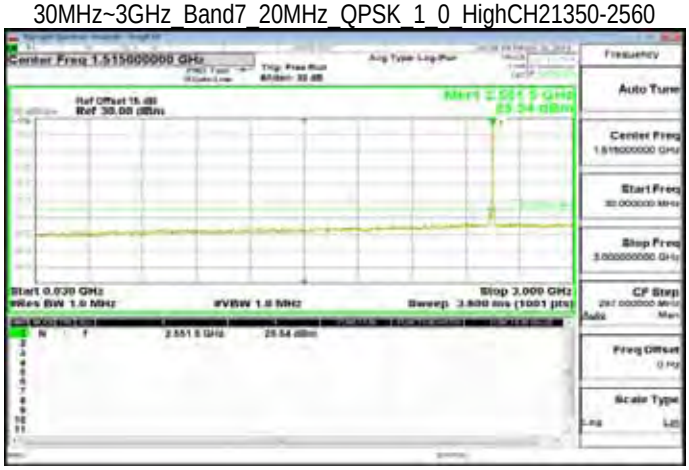
3GHz~10GHz_Band7_20MHz_QPSK_1_0_MidCH21100-2535



3GHz~10GHz_Band7_20MHz_QPSK_1_0_LowCH20850-2510



30MHz~3GHz_Band7_20MHz_QPSK_1_0_HighCH21350-2560



30MHz~3GHz_Band7_20MHz_QPSK_1_0_MidCH21100-2535

3GHz~10GHz_Band7_20MHz_QPSK_1_0_HighCH21350-2560

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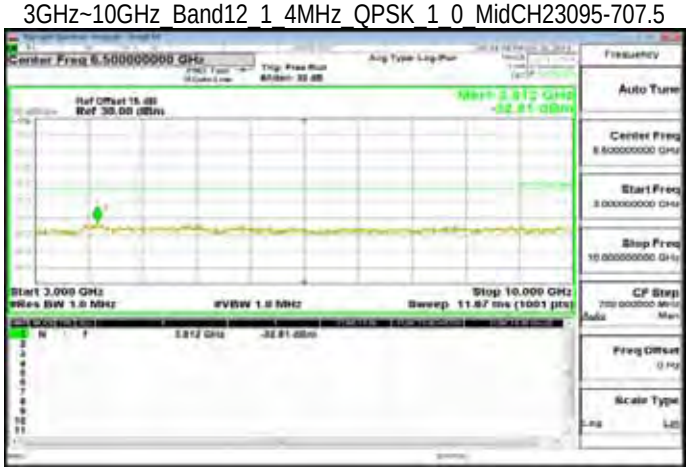
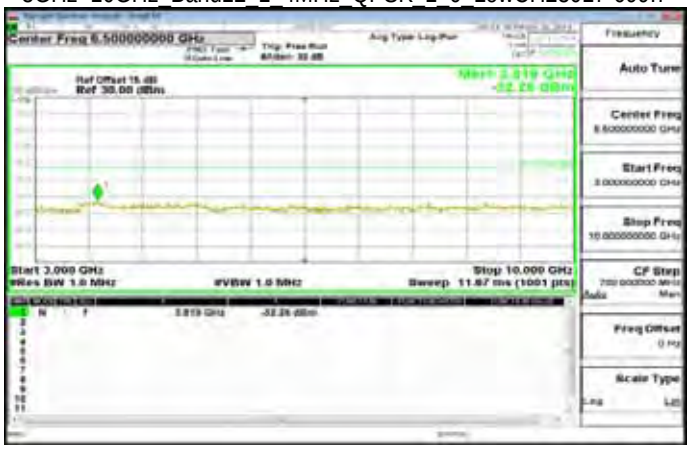
30MHz~3GHz_Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7

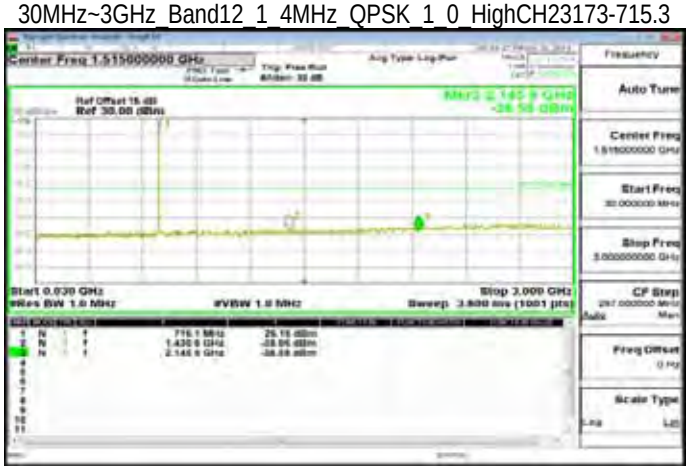
3GHz~10GHz_Band12_1_4MHz_QPSK_1_0_MidCH23095-707.5



3GHz~10GHz_Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7

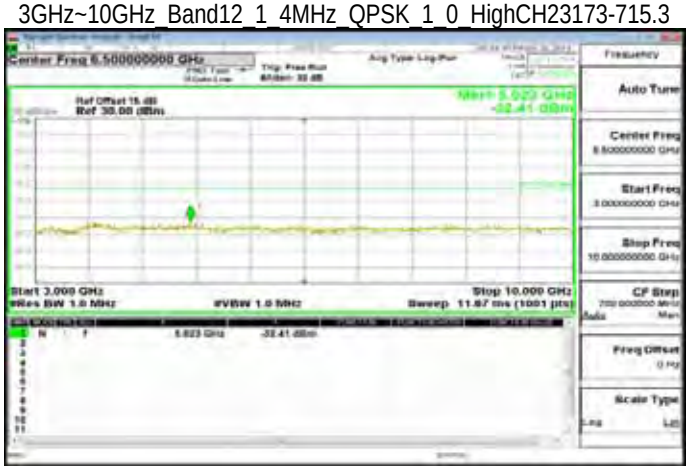


30MHz~3GHz_Band12_1_4MHz_QPSK_1_0_HighCH23173-715.3



30MHz~3GHz_Band12_1_4MHz_QPSK_1_0_MidCH23095-707.5

3GHz~10GHz_Band12_1_4MHz_QPSK_1_0_HighCH23173-715.3



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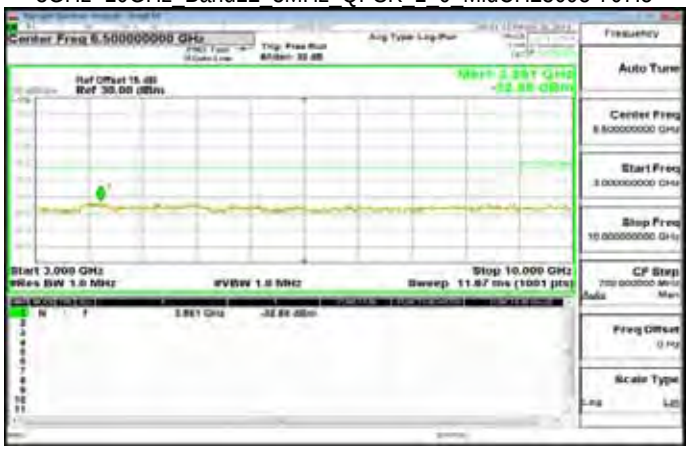
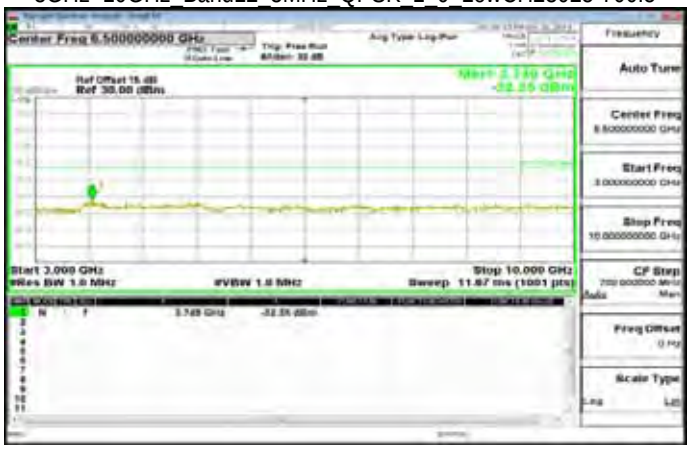
30MHz~3GHz_Band12_3MHz_QPSK_1_0_LowCH23025-700.5

3GHz~10GHz_Band12_3MHz_QPSK_1_0_MidCH23095-707.5



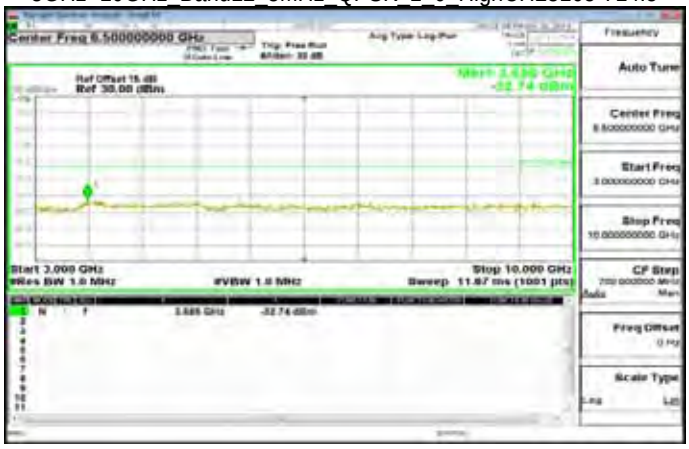
3GHz~10GHz_Band12_3MHz_QPSK_1_0_LowCH23025-700.5



30MHz~3GHz_Band12_3MHz_QPSK_1_0_HighCH23165-714.5

30MHz~3GHz_Band12_3MHz_QPSK_1_0_MidCH23095-707.5

3GHz~10GHz_Band12_3MHz_QPSK_1_0_HighCH23165-714.5



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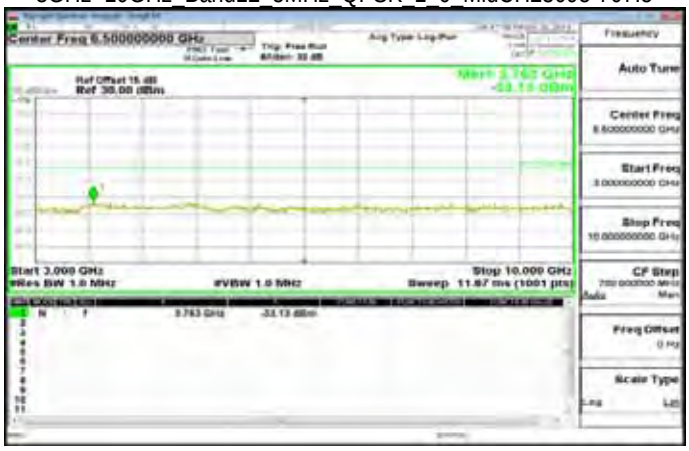
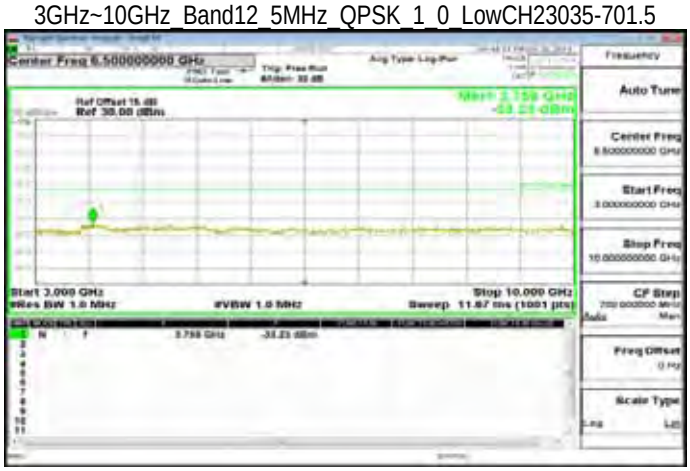
30MHz~3GHz_Band12_5MHz_QPSK_1_0_LowCH23035-701.5

3GHz~10GHz_Band12_5MHz_QPSK_1_0_MidCH23095-707.5

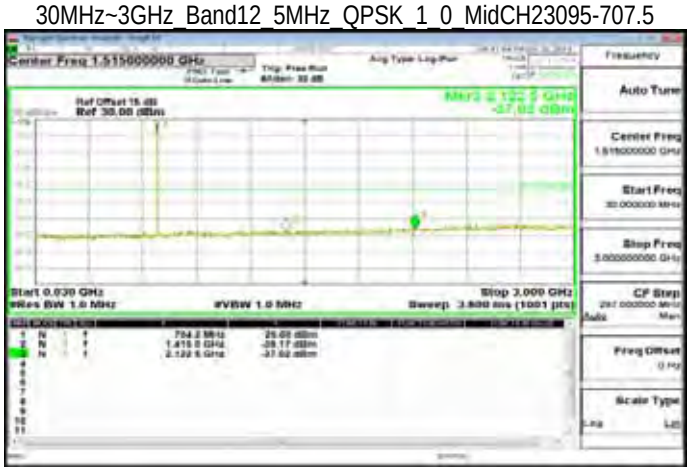


3GHz~10GHz_Band12_5MHz_QPSK_1_0_LowCH23035-701.5

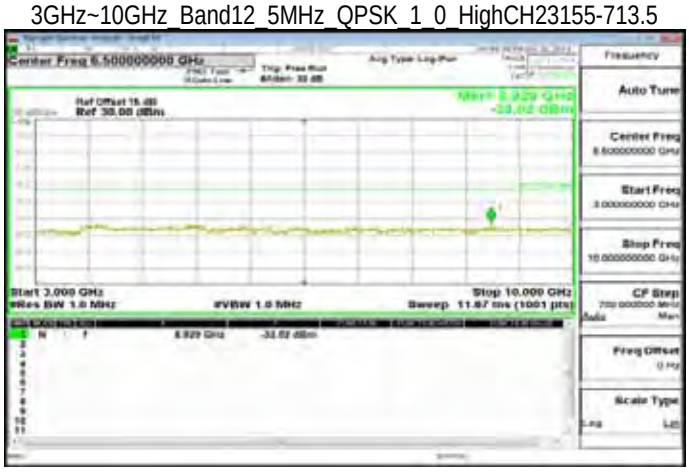


30MHz~3GHz_Band12_5MHz_QPSK_1_0_HighCH23155-713.5

30MHz~3GHz_Band12_5MHz_QPSK_1_0_MidCH23095-707.5



3GHz~10GHz_Band12_5MHz_QPSK_1_0_HighCH23155-713.5



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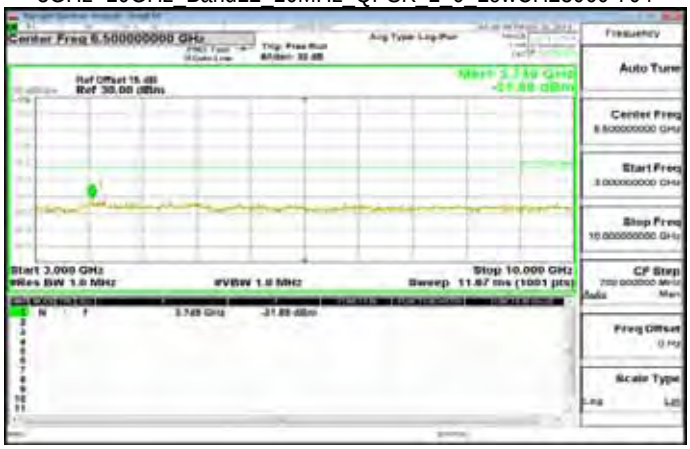
30MHz~3GHz_Band12_10MHz_QPSK_1_0_LowCH23060-704

3GHz~10GHz_Band12_10MHz_QPSK_1_0_MidCH23095-707.5

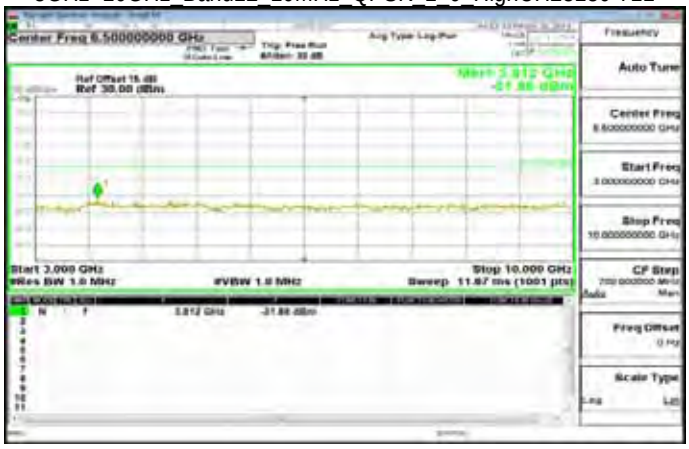
3GHz~10GHz_Band12_10MHz_QPSK_1_0_LowCH23060-704



30MHz~3GHz_Band12_10MHz_QPSK_1_0_HighCH23130-711

30MHz~3GHz_Band12_10MHz_QPSK_1_0_MidCH23095-707.5

3GHz~10GHz_Band12_10MHz_QPSK_1_0_HighCH23130-711



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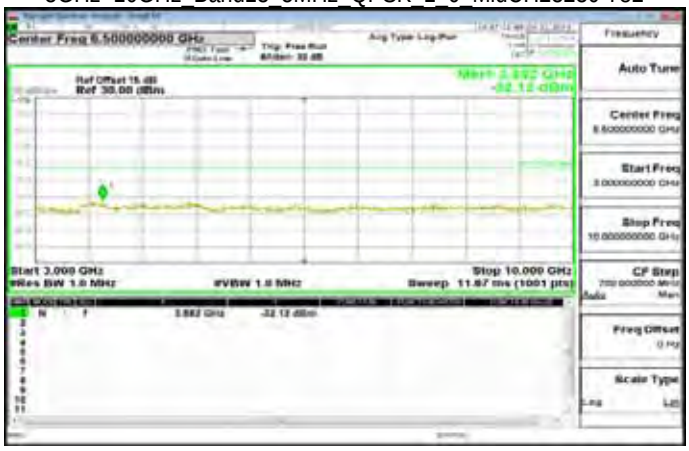
30MHz~3GHz_Band13_5MHz_QPSK_1_0_LowCH23205-779.5

3GHz~10GHz_Band13_5MHz_QPSK_1_0_MidCH23230-782



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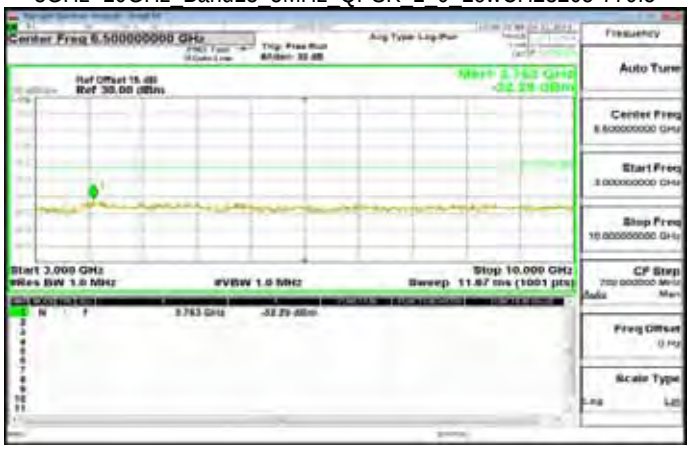
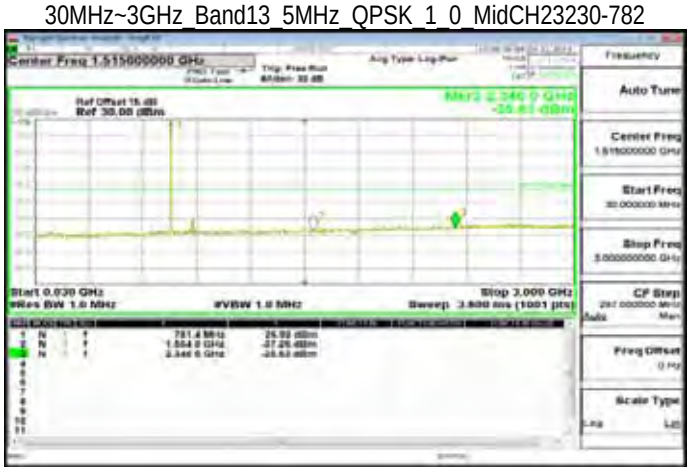
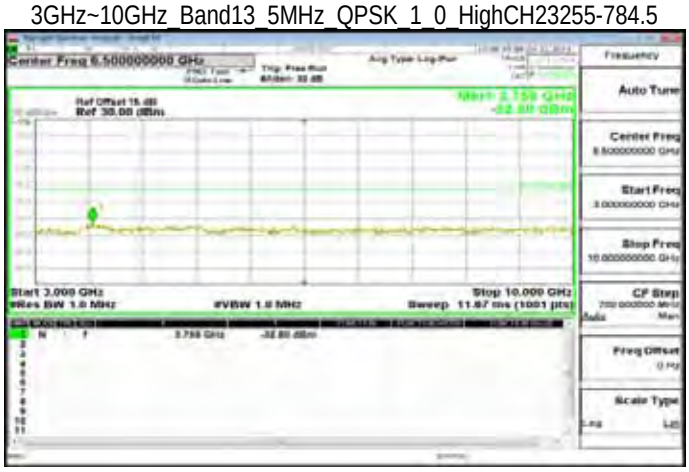


30MHz~3GHz_Band13_5MHz_QPSK_1_0_HighCH23255-784.5

30MHz~3GHz_Band13_5MHz_QPSK_1_0_MidCH23230-782



3GHz~10GHz_Band13_5MHz_QPSK_1_0_HighCH23255-784.5



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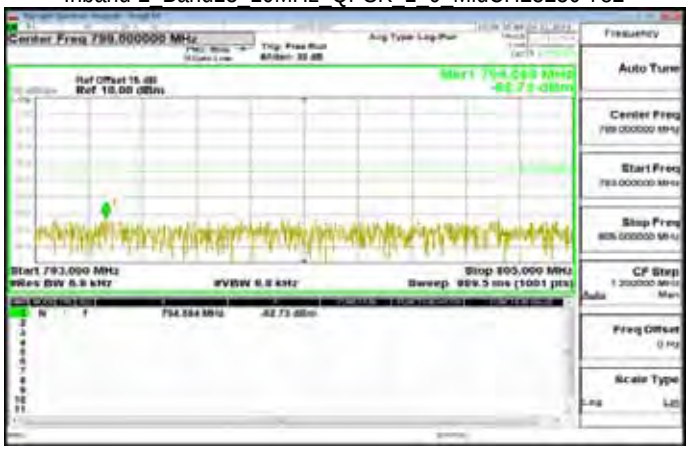
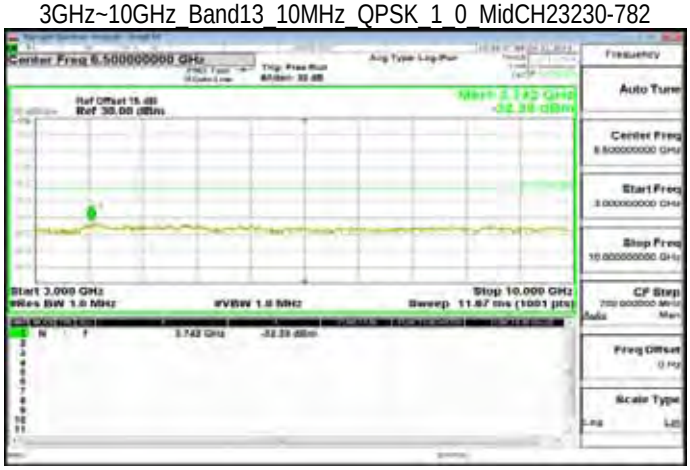
30MHz~3GHz_Band13_10MHz_QPSK_1_0_MidCH23230-782

Inband-2_Band13_10MHz_QPSK_1_0_MidCH23230-782

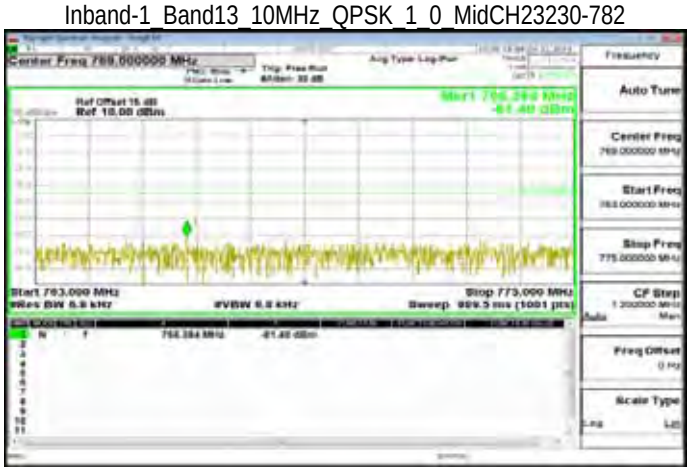


3GHz~10GHz_Band13_10MHz_QPSK_1_0_MidCH23230-782



30MHz~3GHz_Band17_5MHz_QPSK_1_0_LowCH23755-706.5

Inband-1_Band13_10MHz_QPSK_1_0_MidCH23230-782



3GHz~10GHz_Band17_5MHz_QPSK_1_0_LowCH23755-706.5

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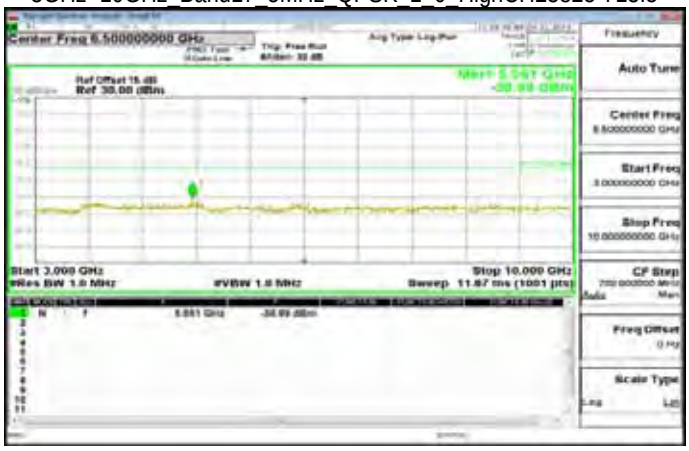
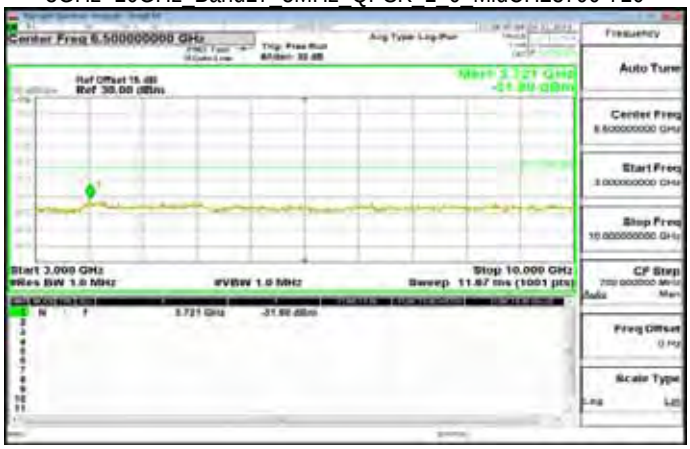
30MHz~3GHz_Band17_5MHz_QPSK_1_0_MidCH23790-710

3GHz~10GHz_Band17_5MHz_QPSK_1_0_HighCH23825-713.5



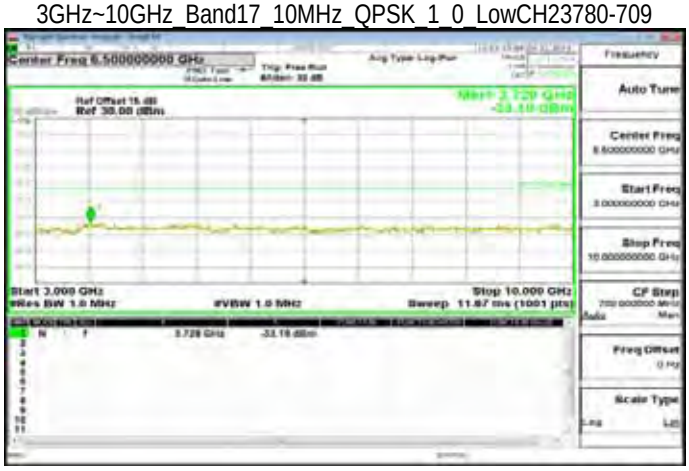
3GHz~10GHz_Band17_5MHz_QPSK_1_0_MidCH23790-710



30MHz~3GHz_Band17_10MHz_QPSK_1_0_LowCH23780-709

30MHz~3GHz_Band17_5MHz_QPSK_1_0_HighCH23825-713.5

3GHz~10GHz_Band17_10MHz_QPSK_1_0_LowCH23780-709



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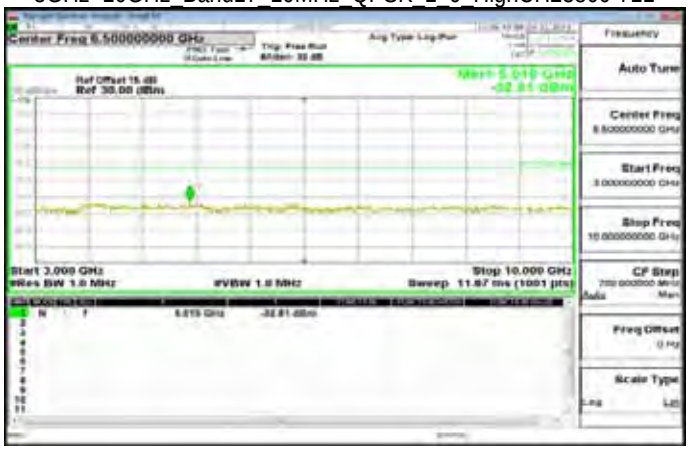
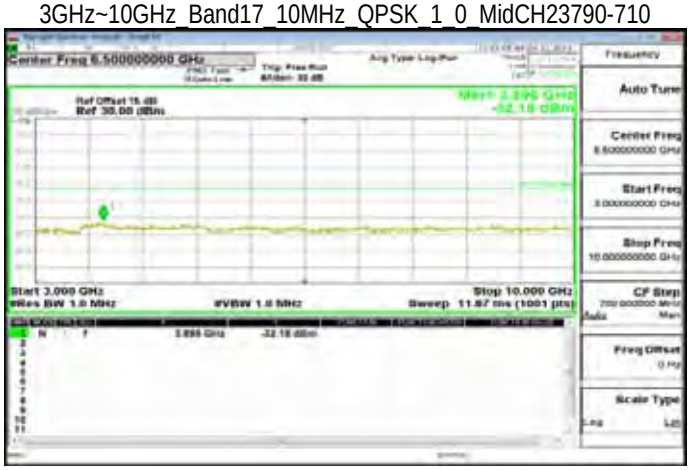
30MHz~3GHz_Band17_10MHz_QPSK_1_0_MidCH23790-710

3GHz~10GHz_Band17_10MHz_QPSK_1_0_HighCH23800-711



3GHz~10GHz_Band17_10MHz_QPSK_1_0_MidCH23790-710



30MHz~3GHz_Band38_5MHz_QPSK_1_0_LowCH37775-2572.5

30MHz~3GHz_Band17_10MHz_QPSK_1_0_HighCH23800-711

3GHz~10GHz_Band38_5MHz_QPSK_1_0_LowCH37775-2572.5

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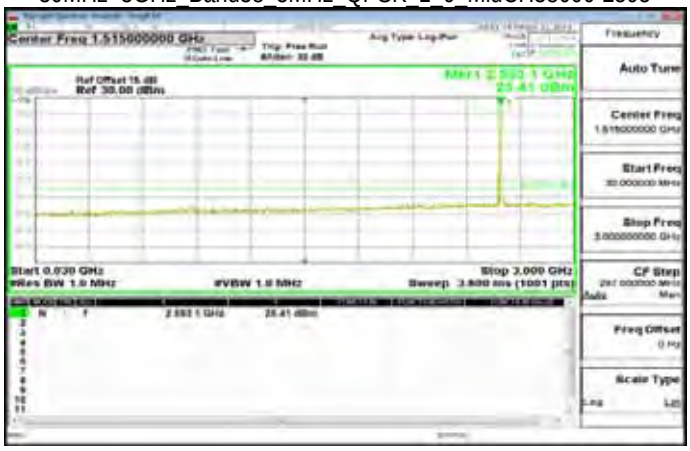
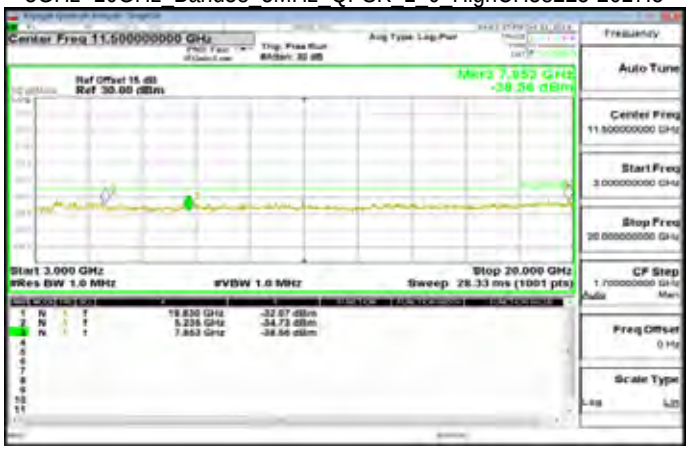
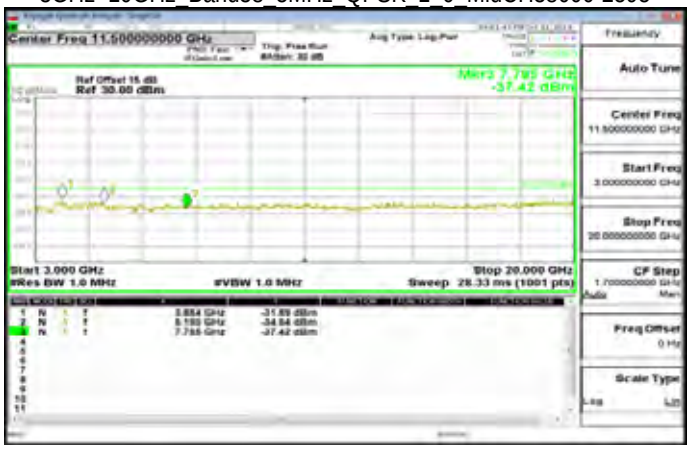
30MHz~3GHz_Band38_5MHz_QPSK_1_0_MidCH38000-2595



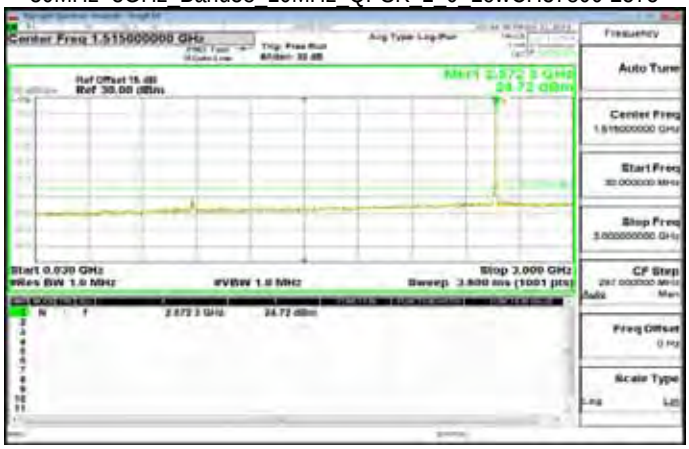
3GHz~10GHz_Band38_5MHz_QPSK_1_0_HighCH38225-2617.5



3GHz~10GHz_Band38_5MHz_QPSK_1_0_MidCH38000-2595



30MHz~3GHz_Band38_10MHz_QPSK_1_0_LowCH37800-2575



30MHz~3GHz_Band38_5MHz_QPSK_1_0_HighCH38225-2617.5

3GHz~10GHz_Band38_10MHz_QPSK_1_0_LowCH37800-2575

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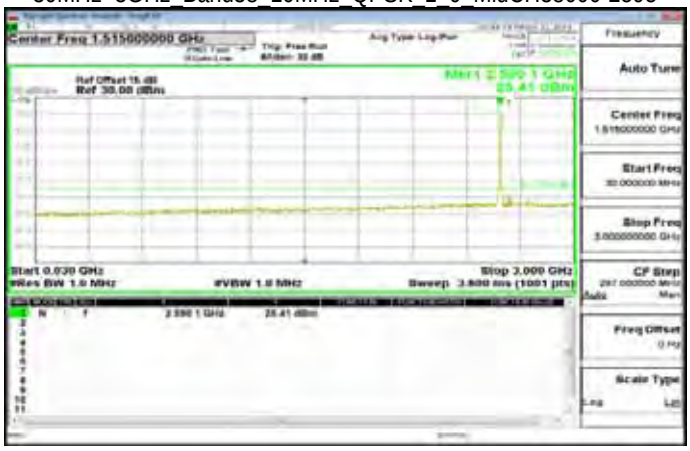
30MHz~3GHz_Band38_10MHz_QPSK_1_0_MidCH38000-2595



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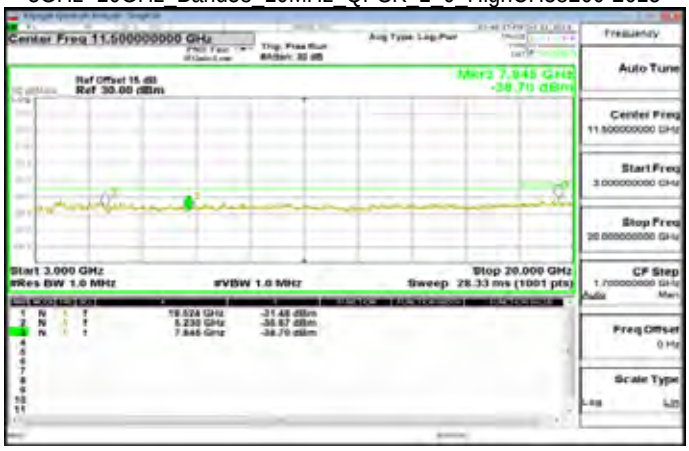
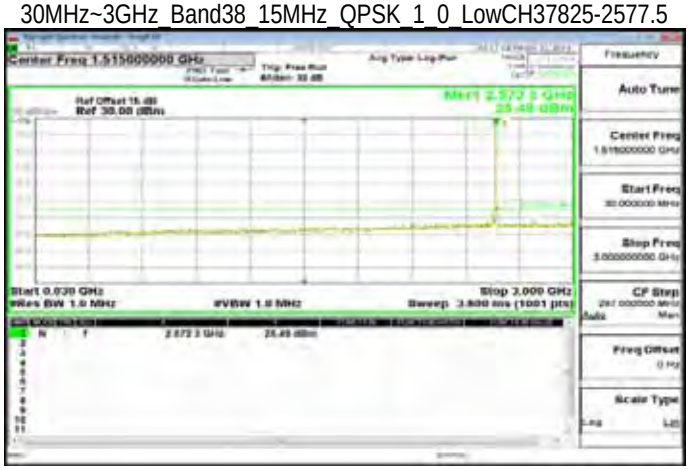
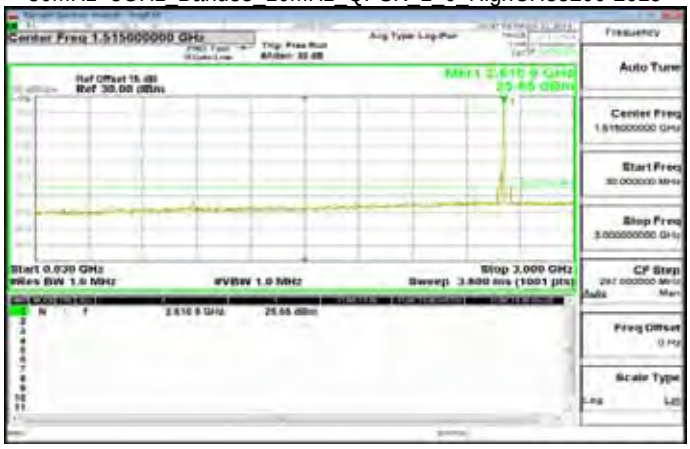


3GHz~10GHz_Band38_10MHz_QPSK_1_0_MidCH38000-2595

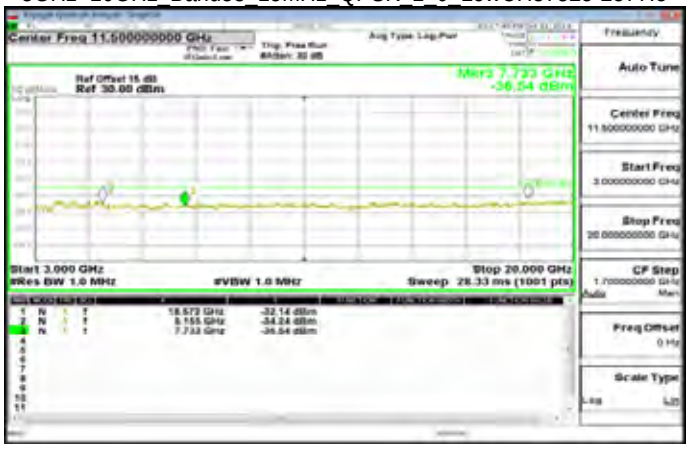
30MHz~3GHz_Band38_15MHz_QPSK_1_0_LowCH37825-2577.5



30MHz~3GHz_Band38_10MHz_QPSK_1_0_HighCH38200-2615



3GHz~10GHz_Band38_15MHz_QPSK_1_0_LowCH37825-2577.5



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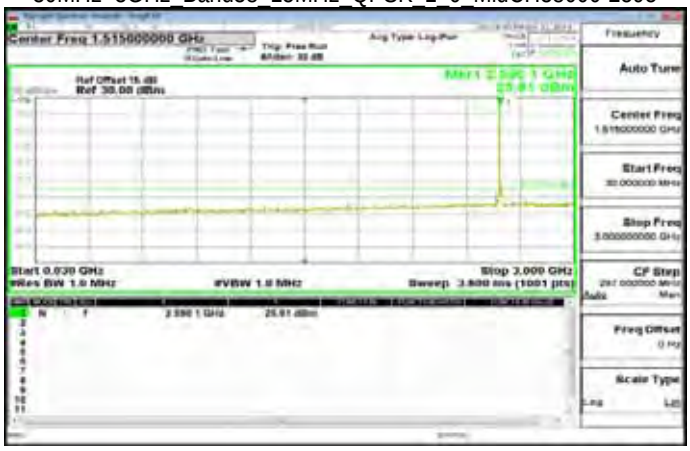
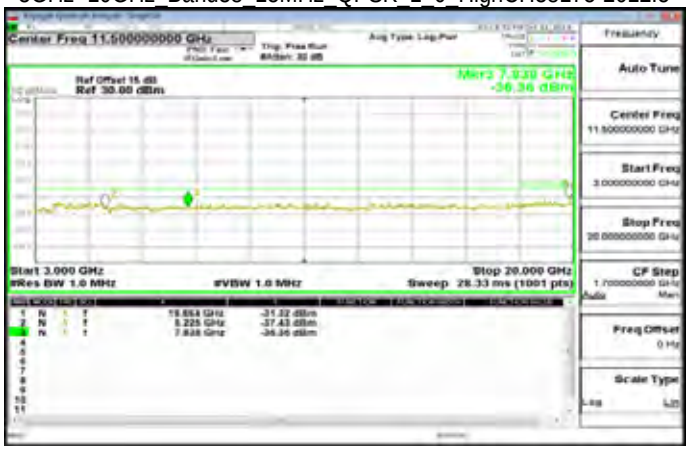
30MHz~3GHz_Band38_15MHz_QPSK_1_0_MidCH38000-2595

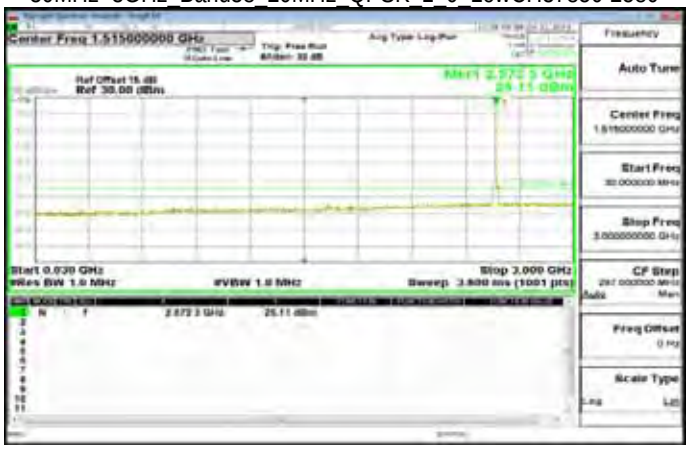


3GHz~10GHz_Band38_15MHz_QPSK_1_0_HighCH38175-2612.5



3GHz~10GHz_Band38_15MHz_QPSK_1_0_MidCH38000-2595

30MHz~3GHz_Band38_20MHz_QPSK_1_0_LowCH37850-2580



30MHz~3GHz_Band38_15MHz_QPSK_1_0_HighCH38175-2612.5

3GHz~10GHz_Band38_20MHz_QPSK_1_0_LowCH37850-2580

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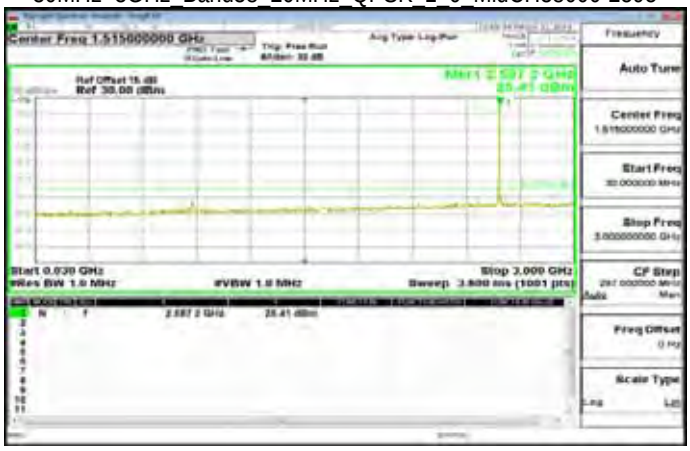
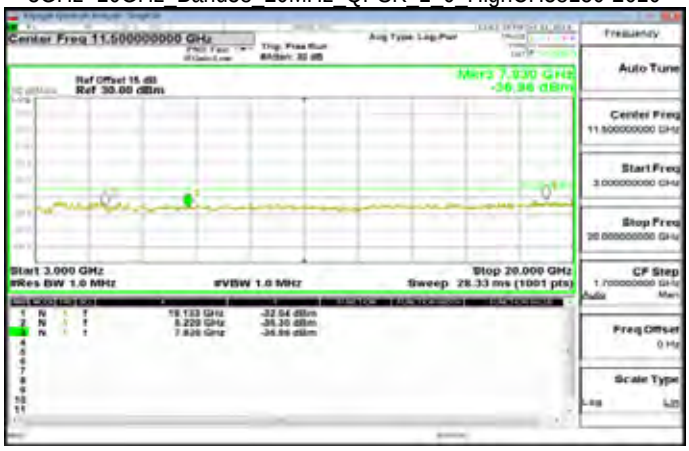
30MHz~3GHz_Band38_20MHz_QPSK_1_0_MidCH38000-2595

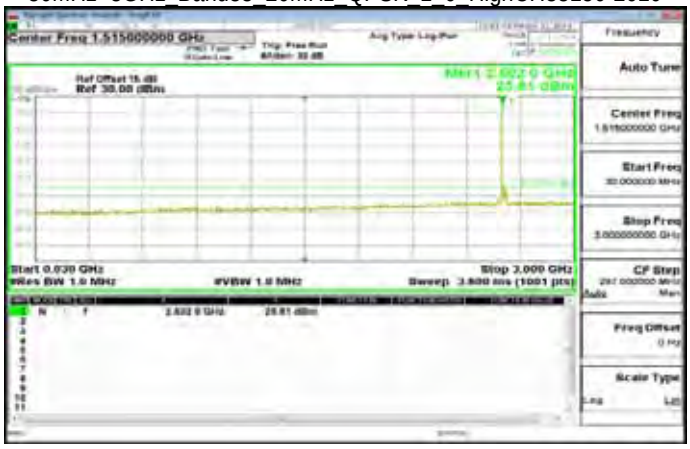


3GHz~10GHz_Band38_20MHz_QPSK_1_0_HighCH38150-2610



3GHz~10GHz_Band38_20MHz_QPSK_1_0_MidCH38000-2595

30MHz~3GHz_Band38_20MHz_QPSK_1_0_HighCH38150-2610



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1. Standard Applicable

According to FCC §2.1053,
FCC §22.917(a) , §24.238(a) , §27.53 (h) , the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

§27.53 (c)
(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(c) (5) & FCC §27.53(g)
Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h) (3)
Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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FCC §27.53(m) (4) (6)
For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ Note
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)$ Note
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

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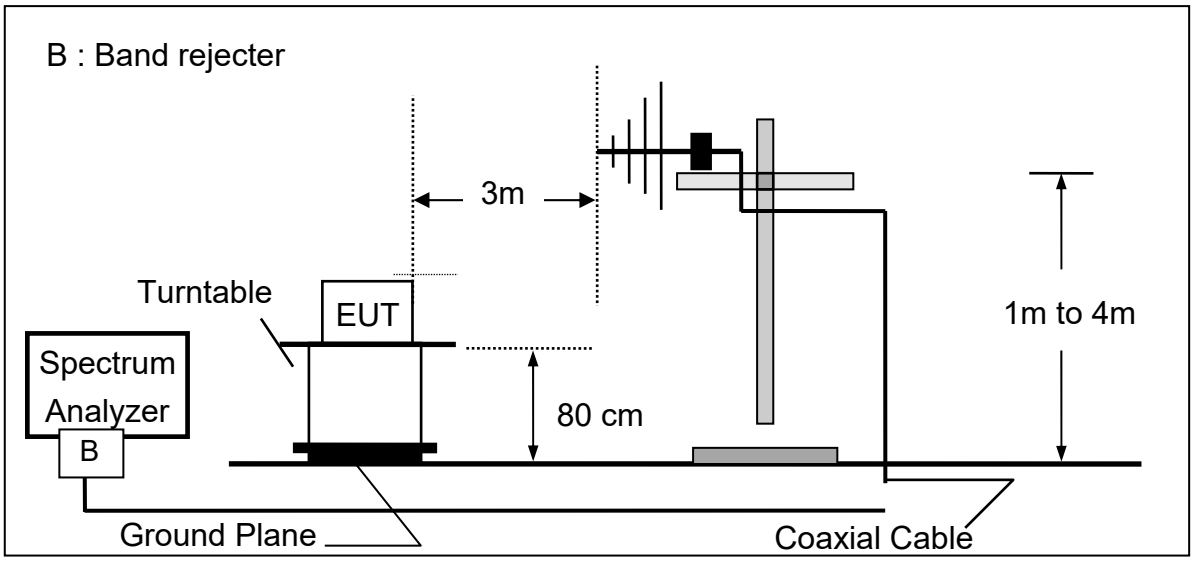
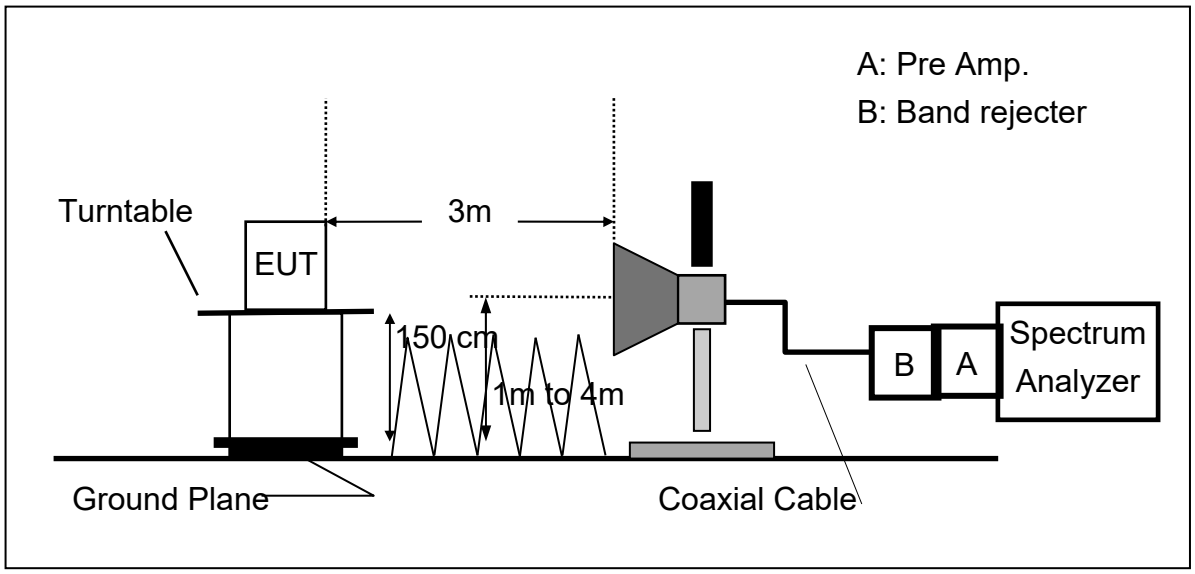
9.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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9.3. Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.
The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)
EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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9.4. Measurement Equipment Used:

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/04/2019	01/03/2020
Horn Antenna	Schwarzbeck	BBHA9120D	603	04/24/2019	04/23/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/27/2018	12/26/2019
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/24/2018	12/23/2019
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/10/2019	01/09/2020
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/22/2019	04/21/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2019	01/01/2020
Pre-Amplifier	EMC Instruments	EMC051825	980152	01/02/2019	01/01/2020
Pre-Amplifier	HP	8447D	2944A09469	01/02/2019	01/01/2020
Filter 635-920	Micro-Tronics	WI	4	01/02/2019	01/01/2020
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2019	01/01/2020
Filter 1700-2000	Micro-Tronics	EWT	M3	01/02/2019	01/01/2020
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2019	01/01/2020
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2019	01/02/2020
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2019	01/01/2020
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2019	01/01/2020
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	01/02/2019	01/01/2020
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2019	03/31/2020
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2019	03/31/2020

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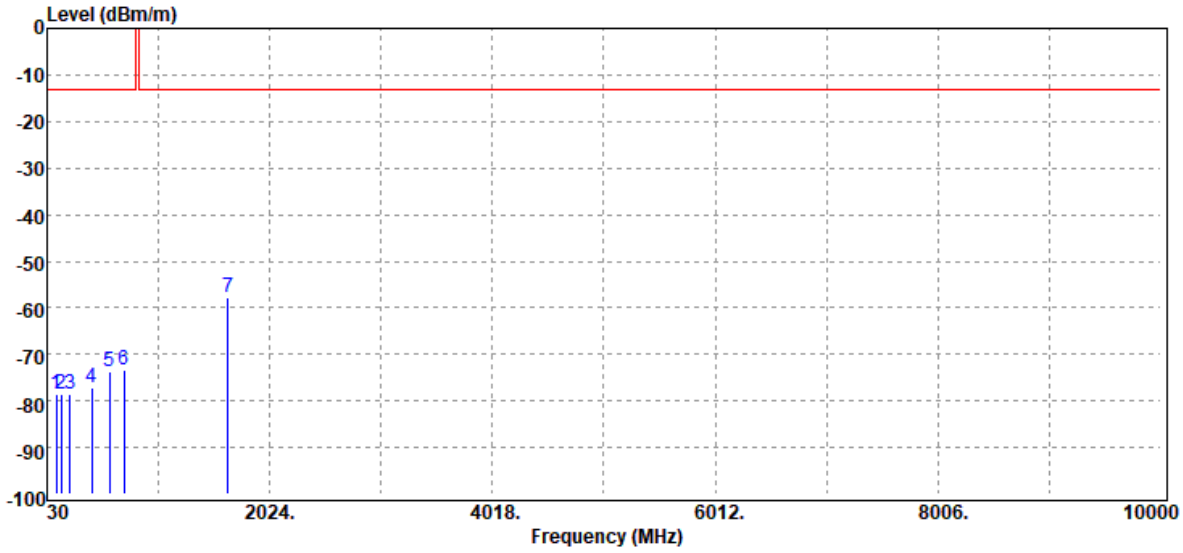
9.5. Measurement Result:

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:GSM 850	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:824.2 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-78.70	-70.61	-7.07	-1.02	-13.00	-65.70
155.13	-78.54	-69.93	-7.32	-1.29	-13.00	-65.54
238.55	-78.67	-75.52	-1.71	-1.44	-13.00	-65.67
429.64	-77.19	-73.69	-1.66	-1.84	-13.00	-64.19
589.69	-73.87	-70.22	-1.71	-1.94	-13.00	-60.87
721.61	-73.45	-69.69	-1.37	-2.39	-13.00	-60.45
1648.40	-57.82	-63.11	9.30	-4.01	-13.00	-44.82

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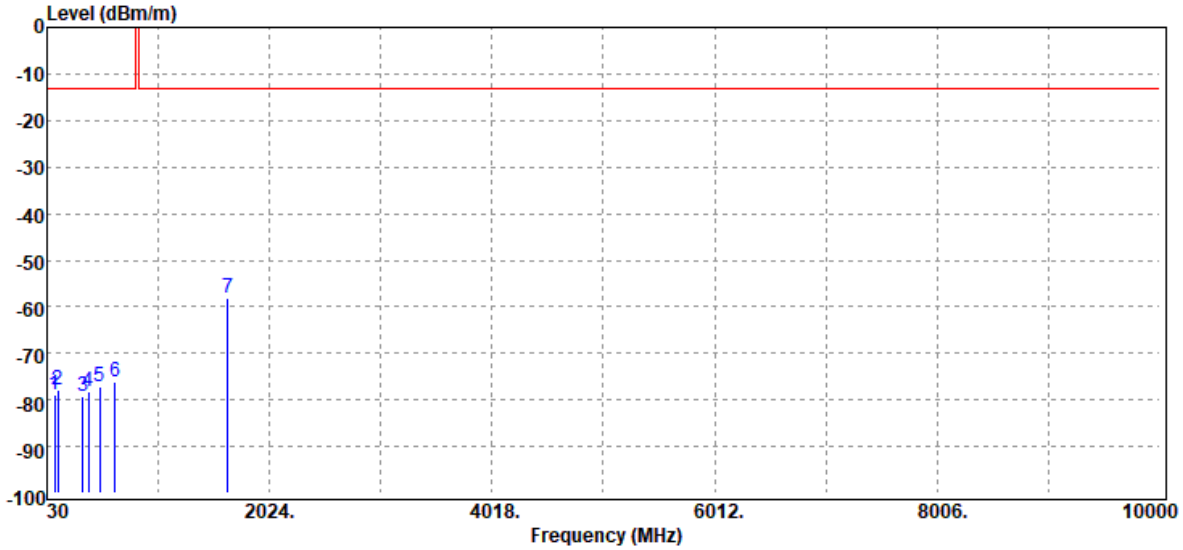
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:GSM 850	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:824.2 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
95.96	-78.94	-72.30	-5.69	-0.95	-13.00	-65.94
124.09	-77.84	-69.72	-7.07	-1.05	-13.00	-64.84
353.01	-79.24	-75.82	-1.51	-1.91	-13.00	-66.24
400.54	-78.19	-74.67	-1.60	-1.92	-13.00	-65.19
502.39	-77.33	-73.47	-1.46	-2.40	-13.00	-64.33
639.16	-76.03	-72.00	-1.53	-2.50	-13.00	-63.03
1648.40	-58.26	-63.55	9.30	-4.01	-13.00	-45.26

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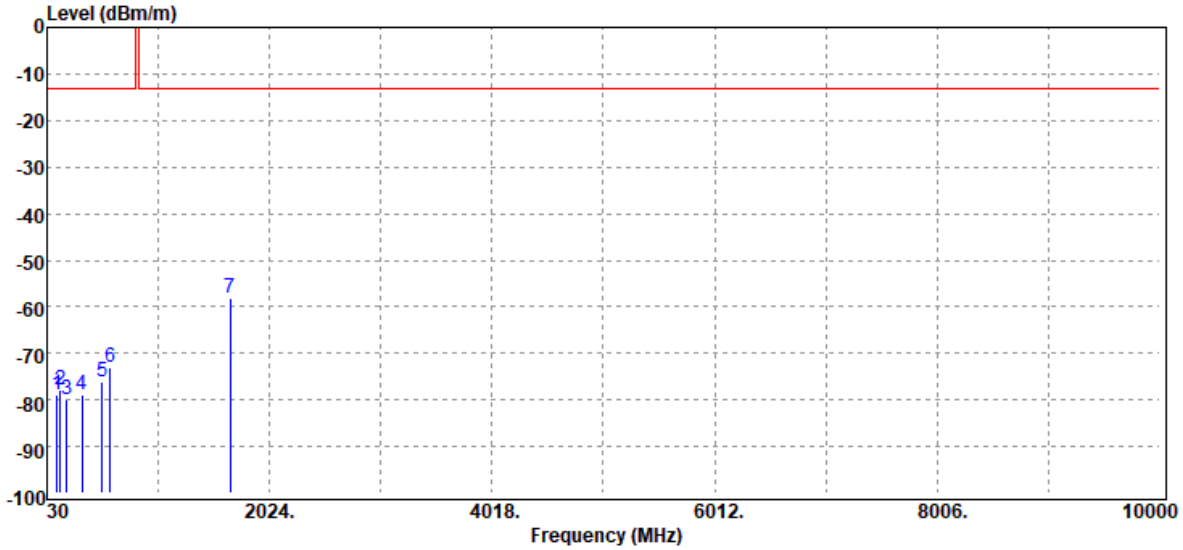
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:GSM 850	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:836.6 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
119.24	-78.75	-70.62	-7.11	-1.02	-13.00	-65.75
146.40	-77.95	-68.84	-7.93	-1.18	-13.00	-64.95
204.60	-80.04	-76.71	-1.93	-1.40	-13.00	-67.04
343.31	-78.93	-75.45	-1.59	-1.89	-13.00	-65.93
522.76	-76.06	-72.07	-1.48	-2.51	-13.00	-63.06
595.51	-73.10	-69.21	-1.76	-2.13	-13.00	-60.10
1673.20	-58.30	-63.76	9.49	-4.03	-13.00	-45.30

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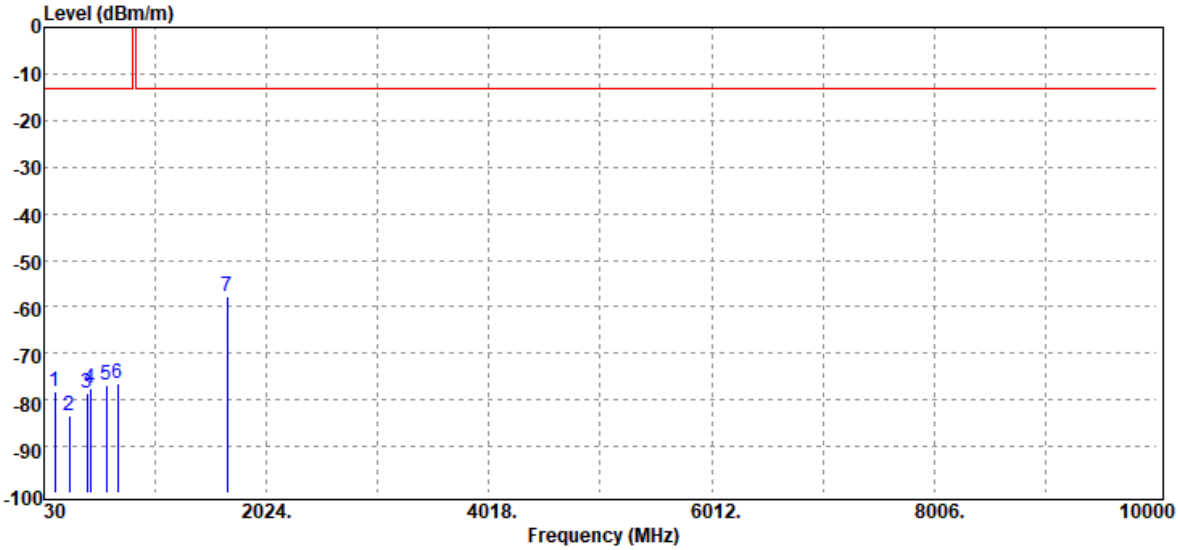
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:GSM 850	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:836.6 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-78.20	-70.08	-7.07	-1.05	-13.00	-65.20
256.01	-83.27	-80.08	-1.62	-1.57	-13.00	-70.27
416.06	-78.51	-74.95	-1.60	-1.96	-13.00	-65.51
447.10	-77.62	-73.99	-1.67	-1.96	-13.00	-64.62
589.69	-76.79	-73.14	-1.71	-1.94	-13.00	-63.79
687.66	-76.53	-72.75	-1.29	-2.49	-13.00	-63.53
1673.20	-57.71	-63.17	9.49	-4.03	-13.00	-44.71

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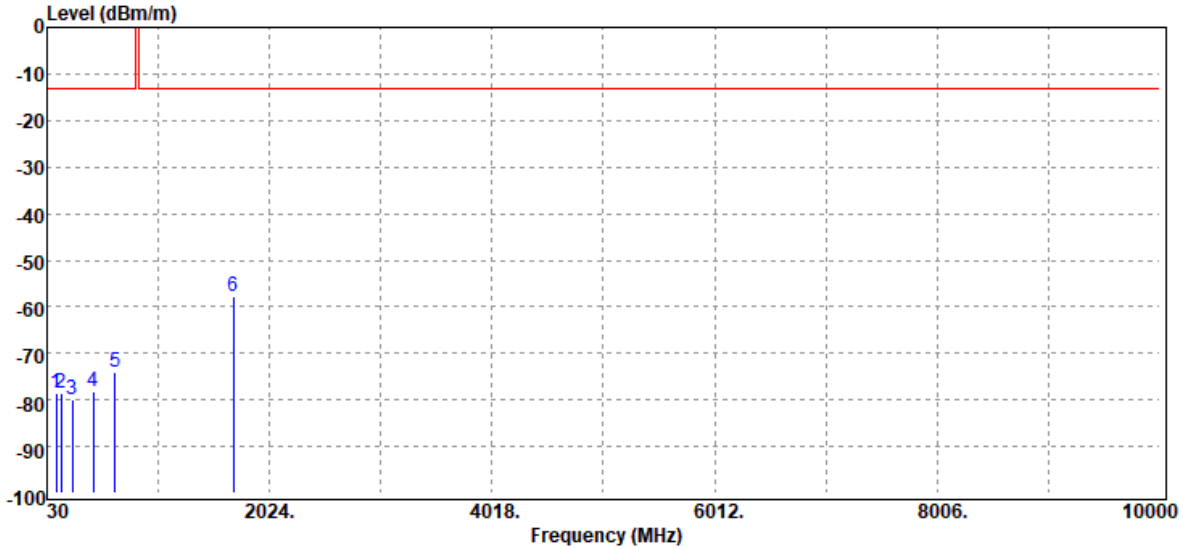
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:GSM 850	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:848.8 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-78.46	-70.37	-7.07	-1.02	-13.00	-65.46
153.19	-78.72	-70.00	-7.46	-1.26	-13.00	-65.72
256.01	-79.92	-76.73	-1.62	-1.57	-13.00	-66.92
445.16	-78.07	-74.48	-1.67	-1.92	-13.00	-65.07
641.10	-74.11	-70.03	-1.53	-2.55	-13.00	-61.11
1697.60	-57.86	-63.49	9.68	-4.05	-13.00	-44.86

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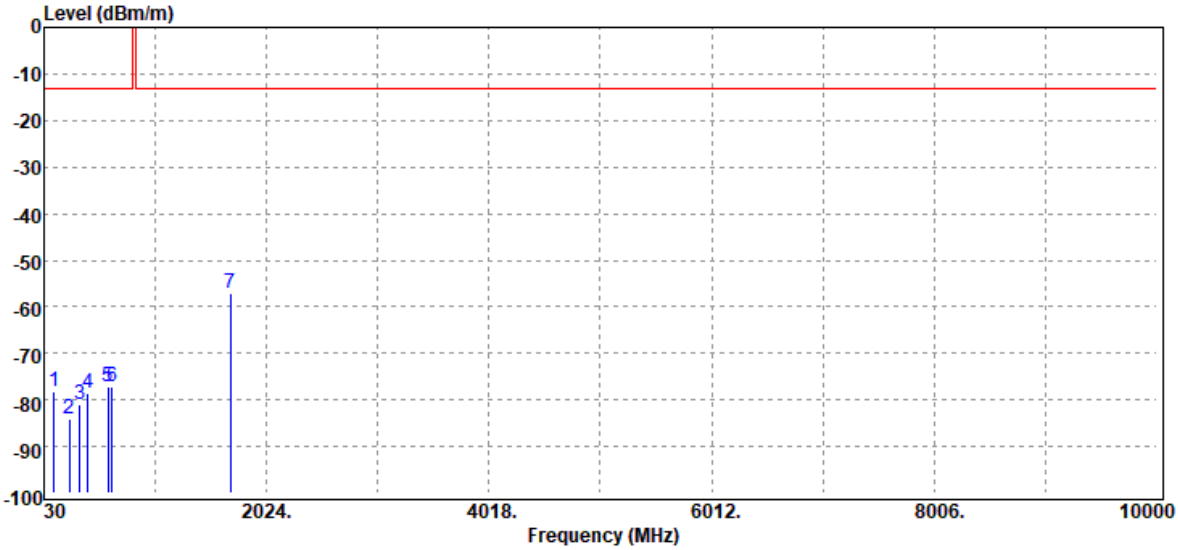
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:GSM 850	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:848.8 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
122.15	-78.31	-70.17	-7.10	-1.04	-13.00	-65.31
256.01	-84.02	-80.83	-1.62	-1.57	-13.00	-71.02
352.04	-80.81	-77.42	-1.49	-1.90	-13.00	-67.81
422.85	-78.49	-74.94	-1.62	-1.93	-13.00	-65.49
602.30	-77.24	-72.95	-1.94	-2.35	-13.00	-64.24
636.25	-77.17	-73.13	-1.56	-2.48	-13.00	-64.17
1697.60	-57.13	-62.76	9.68	-4.05	-13.00	-44.13

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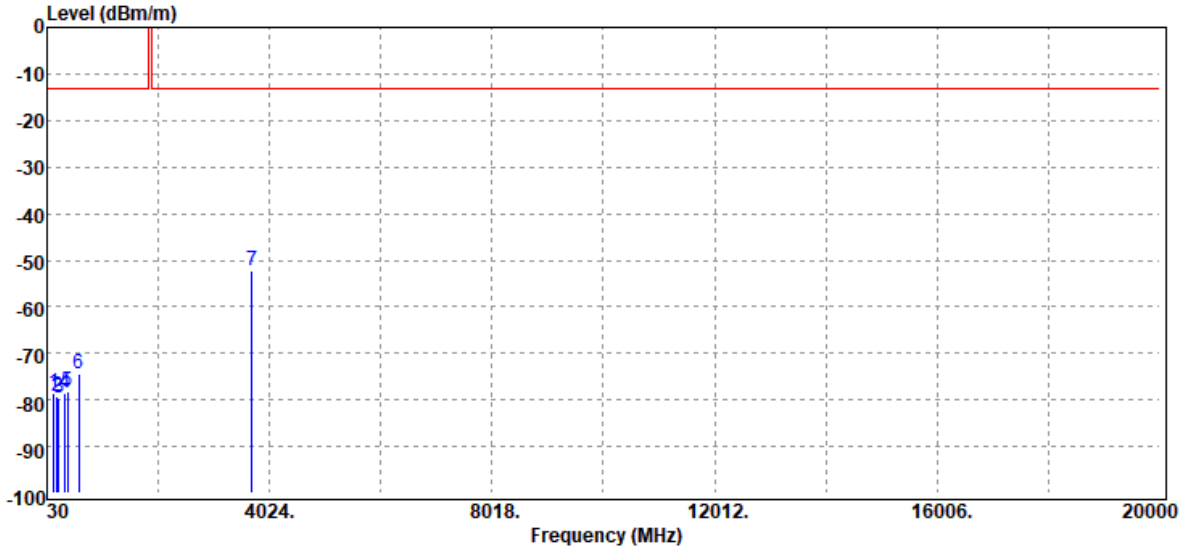
Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:GSM 1900	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1850.2 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
148.34	-78.66	-69.65	-7.81	-1.20	-13.00	-65.66
207.51	-79.37	-76.21	-1.75	-1.41	-13.00	-66.37
238.55	-79.64	-76.49	-1.71	-1.44	-13.00	-66.64
357.86	-78.71	-75.27	-1.52	-1.92	-13.00	-65.71
400.54	-78.31	-74.79	-1.60	-1.92	-13.00	-65.31
595.51	-74.49	-70.60	-1.76	-2.13	-13.00	-61.49
3700.40	-52.20	-58.67	12.40	-5.93	-13.00	-39.20

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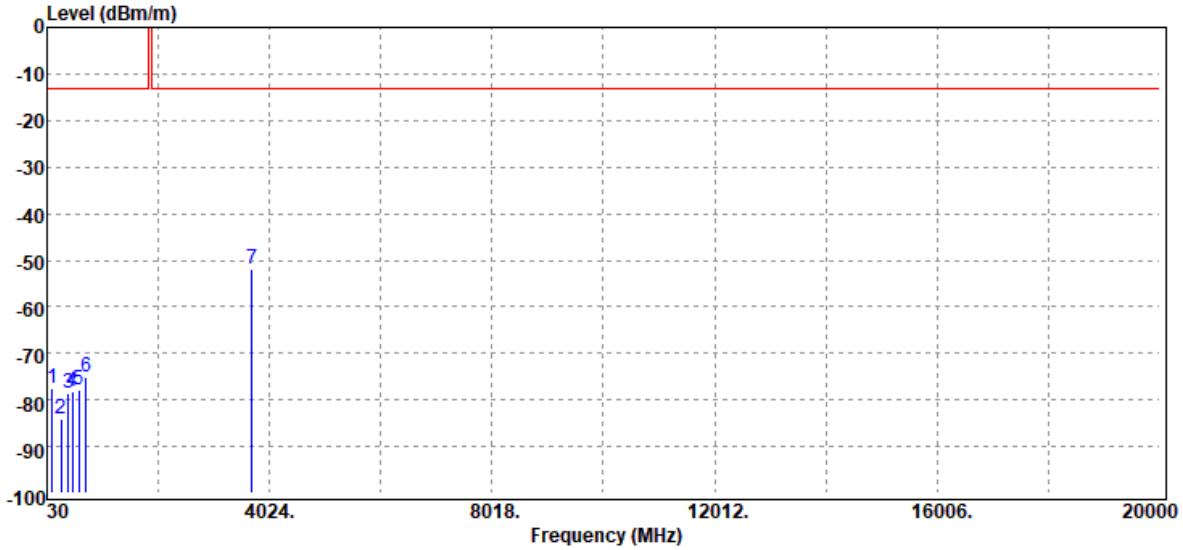
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:GSM 1900	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1850.2 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
122.15	-77.44	-69.30	-7.10	-1.04	-13.00	-64.44
277.35	-84.14	-80.57	-1.93	-1.64	-13.00	-71.14
410.24	-78.69	-75.18	-1.58	-1.93	-13.00	-65.69
483.96	-78.08	-74.34	-1.51	-2.23	-13.00	-65.08
597.45	-77.72	-73.71	-1.81	-2.20	-13.00	-64.72
735.19	-75.00	-71.25	-1.52	-2.23	-13.00	-62.00
3700.40	-51.74	-58.21	12.40	-5.93	-13.00	-38.74

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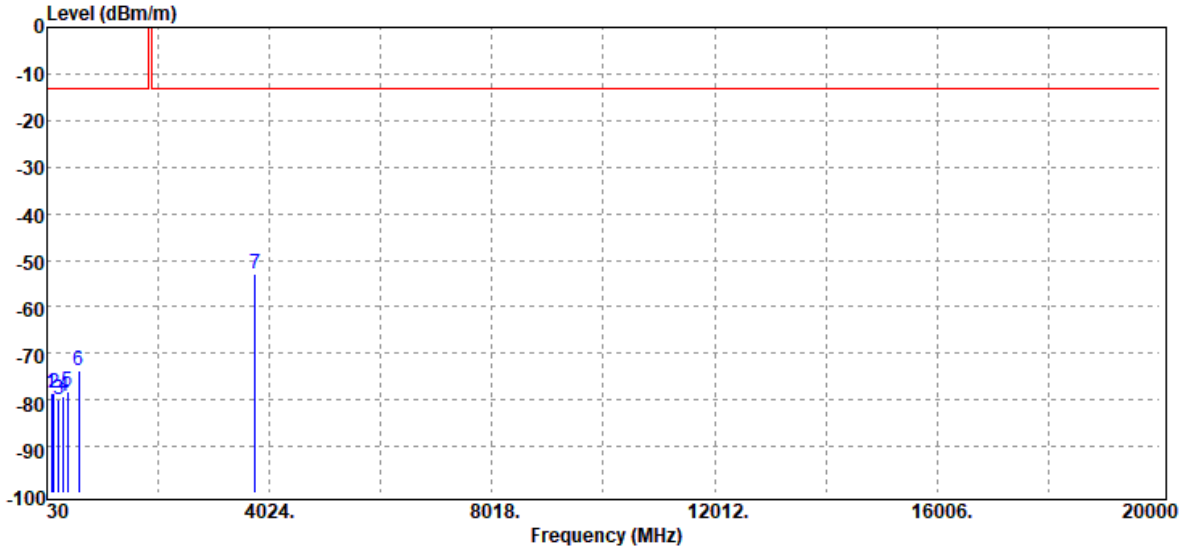
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:GSM 1900	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1880.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-78.66	-70.61	-7.02	-1.03	-13.00	-65.66
146.40	-78.44	-69.33	-7.93	-1.18	-13.00	-65.44
240.49	-79.82	-76.66	-1.73	-1.43	-13.00	-66.82
321.00	-79.31	-75.83	-1.71	-1.77	-13.00	-66.31
405.39	-78.04	-74.52	-1.59	-1.93	-13.00	-65.04
597.45	-73.79	-69.78	-1.81	-2.20	-13.00	-60.79
3760.00	-52.80	-59.08	12.30	-6.02	-13.00	-39.80

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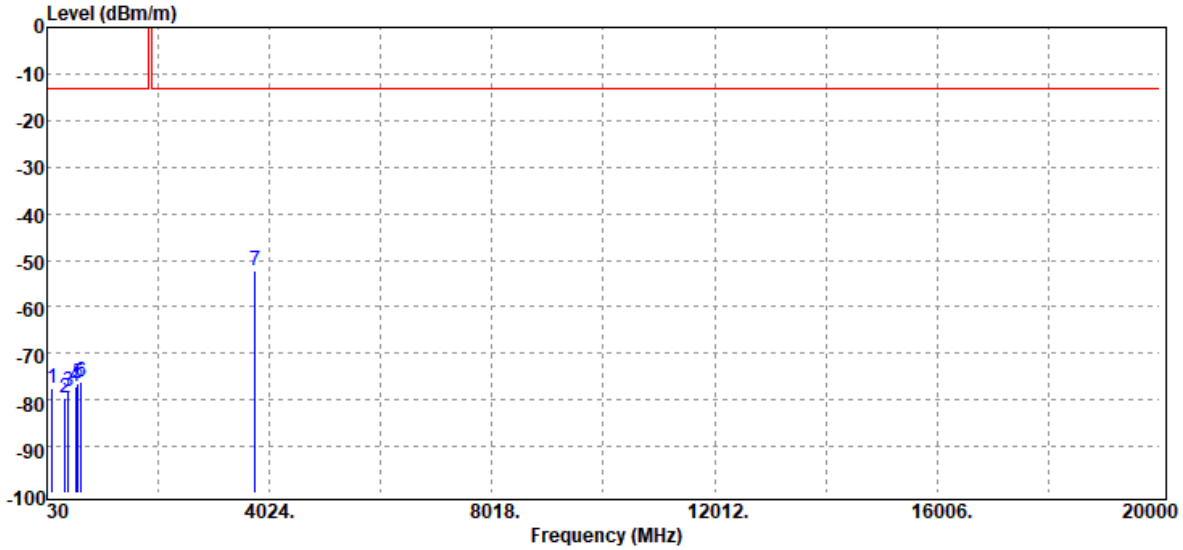
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:GSM 1900	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1880.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
122.15	-77.62	-69.48	-7.10	-1.04	-13.00	-64.62
350.10	-79.67	-76.31	-1.46	-1.90	-13.00	-66.67
418.00	-78.34	-74.73	-1.64	-1.97	-13.00	-65.34
544.10	-77.24	-73.65	-1.41	-2.18	-13.00	-64.24
592.60	-76.31	-72.54	-1.74	-2.03	-13.00	-63.31
648.86	-76.05	-71.71	-1.50	-2.84	-13.00	-63.05
3760.00	-52.37	-58.65	12.30	-6.02	-13.00	-39.37

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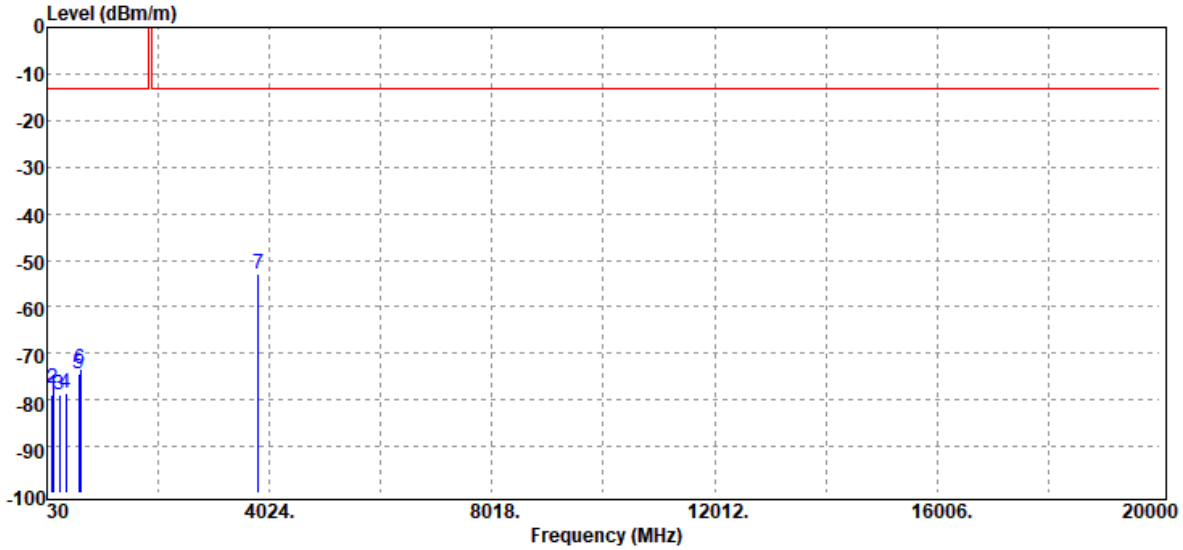
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:GSM 1900	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1909.8 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
117.30	-78.90	-70.79	-7.09	-1.02	-13.00	-65.90
144.46	-77.60	-68.49	-7.94	-1.17	-13.00	-64.60
253.10	-79.01	-75.83	-1.64	-1.54	-13.00	-66.01
362.71	-78.60	-75.13	-1.55	-1.92	-13.00	-65.60
600.36	-74.38	-70.19	-1.89	-2.30	-13.00	-61.38
634.31	-73.21	-69.15	-1.59	-2.47	-13.00	-60.21
3819.60	-52.94	-59.09	12.26	-6.11	-13.00	-39.94

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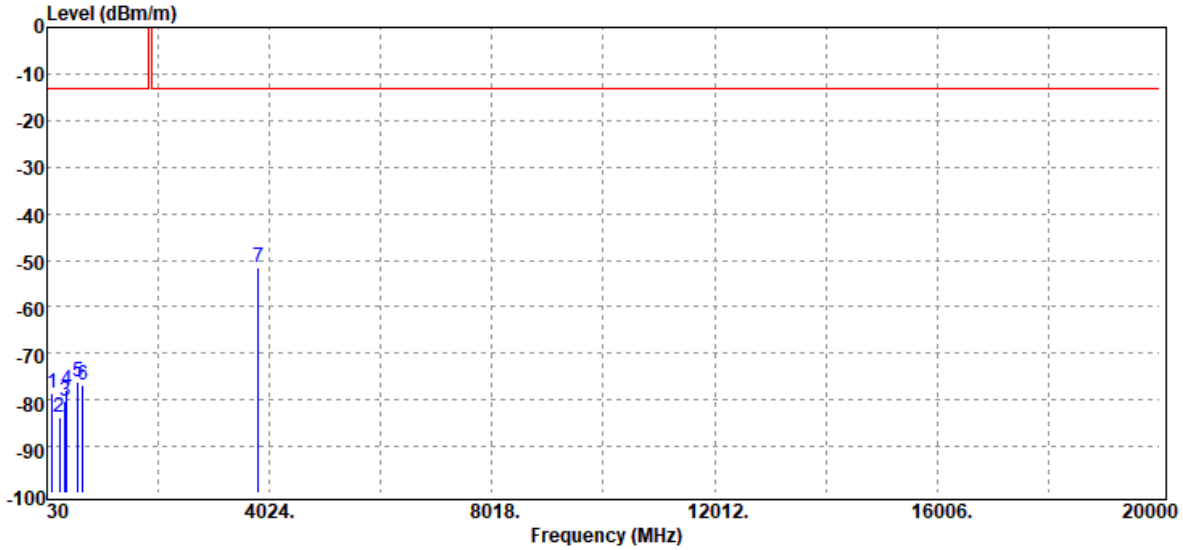
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:GSM 1900	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1909.8 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-78.41	-70.29	-7.07	-1.05	-13.00	-65.41
255.04	-83.75	-80.58	-1.61	-1.56	-13.00	-70.75
359.80	-80.28	-76.84	-1.51	-1.93	-13.00	-67.28
386.96	-77.92	-74.32	-1.63	-1.97	-13.00	-64.92
589.69	-76.18	-72.53	-1.71	-1.94	-13.00	-63.18
667.29	-76.78	-72.44	-1.30	-3.04	-13.00	-63.78
3819.60	-51.71	-57.86	12.26	-6.11	-13.00	-38.71

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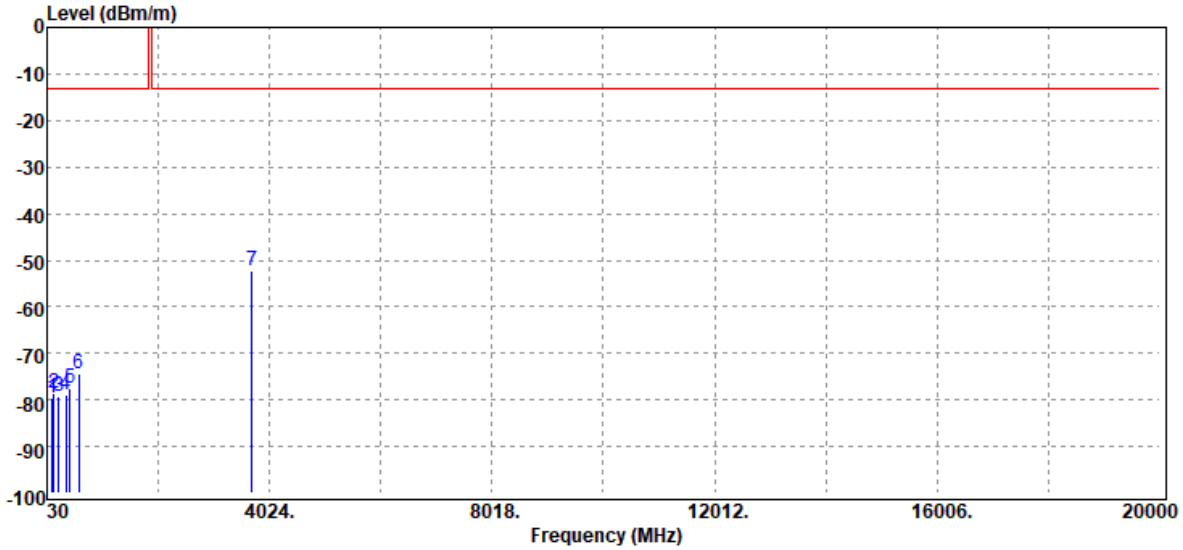
Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B2	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1852.4 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
117.30	-79.72	-71.61	-7.09	-1.02	-13.00	-66.72
149.31	-78.65	-69.68	-7.76	-1.21	-13.00	-65.65
241.46	-79.18	-76.02	-1.72	-1.44	-13.00	-66.18
367.56	-78.93	-75.44	-1.58	-1.91	-13.00	-65.93
439.34	-77.66	-74.07	-1.76	-1.83	-13.00	-64.66
597.45	-74.50	-70.49	-1.81	-2.20	-13.00	-61.50
3704.80	-52.17	-58.62	12.39	-5.94	-13.00	-39.17

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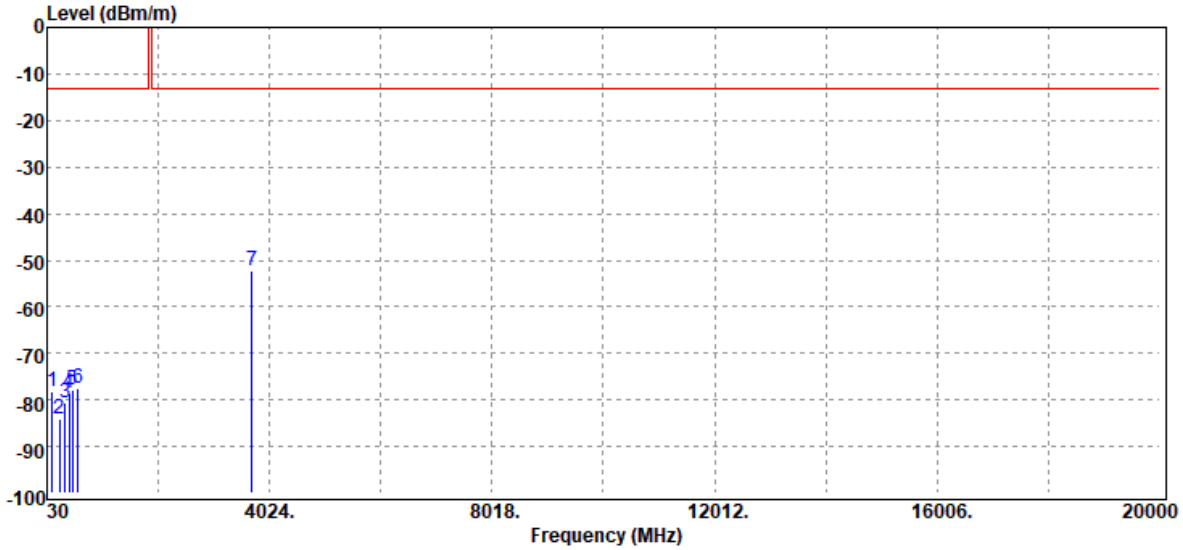
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B2	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1852.4 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
123.12	-78.23	-70.15	-7.04	-1.04	-13.00	-65.23
256.01	-84.20	-81.01	-1.62	-1.57	-13.00	-71.20
350.10	-80.50	-77.14	-1.46	-1.90	-13.00	-67.50
434.49	-78.40	-74.90	-1.67	-1.83	-13.00	-65.40
482.99	-77.73	-74.01	-1.49	-2.23	-13.00	-64.73
589.69	-77.57	-73.92	-1.71	-1.94	-13.00	-64.57
3704.80	-52.24	-58.69	12.39	-5.94	-13.00	-39.24

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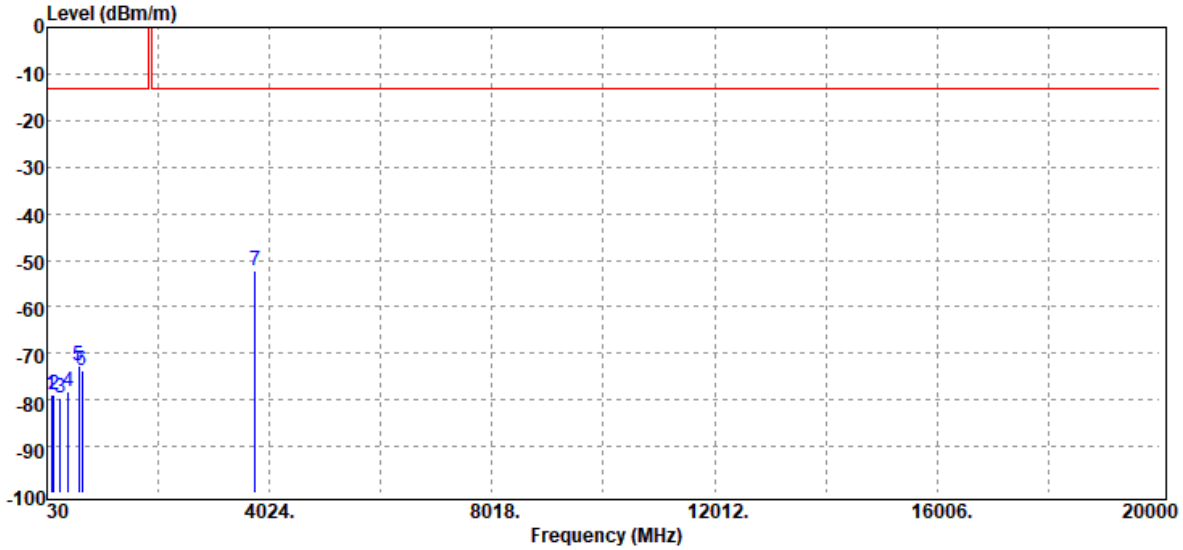
t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
Member of SGS Group

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B2	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1880.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-78.86	-70.77	-7.07	-1.02	-13.00	-65.86
153.19	-78.86	-70.14	-7.46	-1.26	-13.00	-65.86
264.74	-79.57	-76.18	-1.77	-1.62	-13.00	-66.57
406.36	-78.27	-74.75	-1.59	-1.93	-13.00	-65.27
599.39	-72.64	-68.51	-1.86	-2.27	-13.00	-59.64
660.50	-73.62	-68.99	-1.43	-3.20	-13.00	-60.62
3760.00	-52.21	-58.49	12.30	-6.02	-13.00	-39.21

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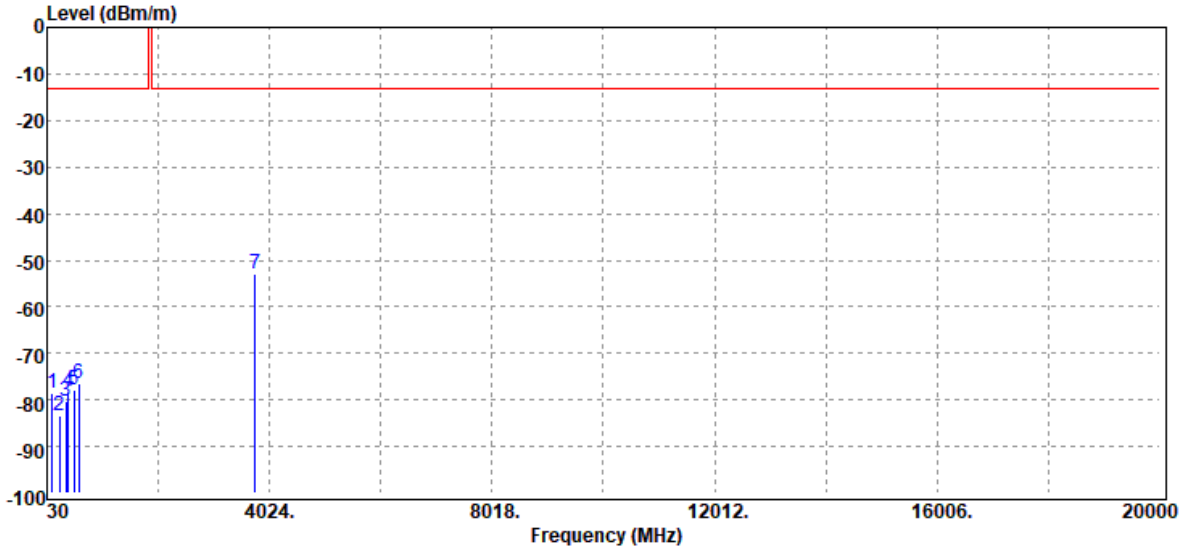
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B2	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1880.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.00	-78.46	-70.22	-7.16	-1.08	-13.00	-65.46
259.89	-83.30	-80.04	-1.64	-1.62	-13.00	-70.30
366.59	-80.26	-76.76	-1.59	-1.91	-13.00	-67.26
416.06	-78.28	-74.72	-1.60	-1.96	-13.00	-65.28
515.00	-77.89	-73.91	-1.40	-2.58	-13.00	-64.89
602.30	-76.46	-72.17	-1.94	-2.35	-13.00	-63.46
3760.00	-52.97	-59.25	12.30	-6.02	-13.00	-39.97

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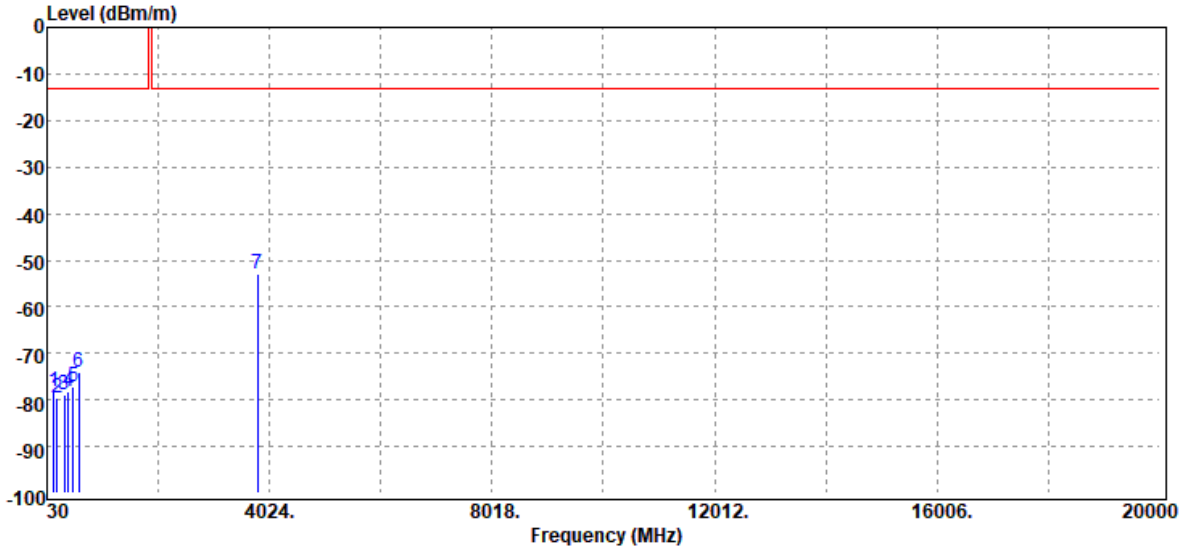
Member of SGS Group

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B2	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1907.6 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
151.25	-78.09	-69.22	-7.64	-1.23	-13.00	-65.09
204.60	-79.74	-76.41	-1.93	-1.40	-13.00	-66.74
347.19	-79.06	-75.64	-1.53	-1.89	-13.00	-66.06
411.21	-78.17	-74.65	-1.58	-1.94	-13.00	-65.17
492.69	-77.21	-73.42	-1.55	-2.24	-13.00	-64.21
599.39	-74.12	-69.99	-1.86	-2.27	-13.00	-61.12
3815.20	-53.10	-59.27	12.27	-6.10	-13.00	-40.10

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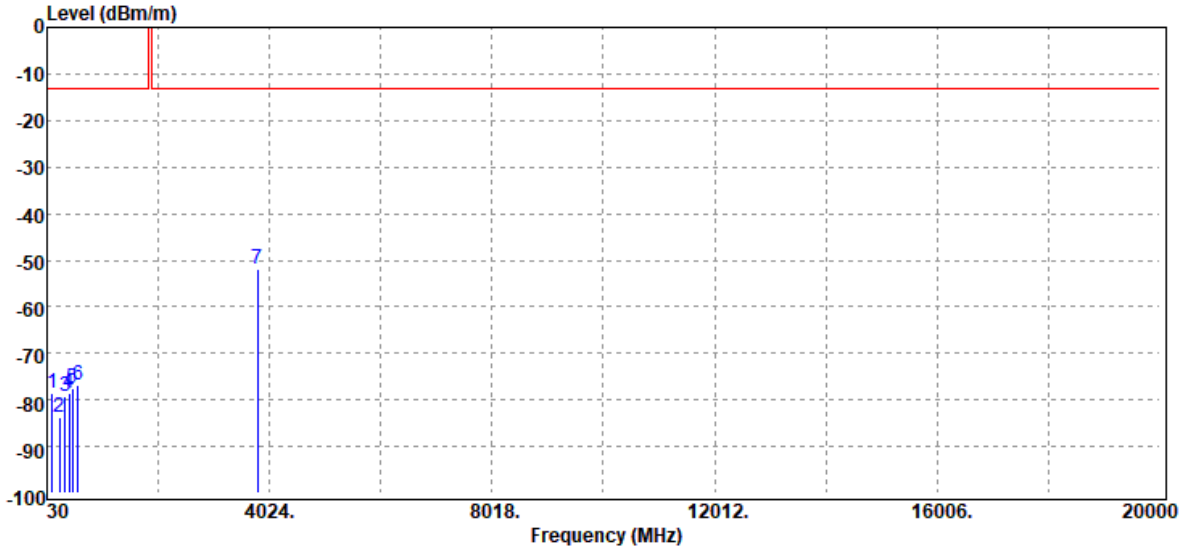
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B2	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1907.6 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-78.38	-70.22	-7.10	-1.06	-13.00	-65.38
259.89	-83.90	-80.64	-1.64	-1.62	-13.00	-70.90
361.74	-79.36	-75.90	-1.54	-1.92	-13.00	-66.36
425.76	-78.48	-75.00	-1.59	-1.89	-13.00	-65.48
485.90	-77.67	-73.92	-1.53	-2.22	-13.00	-64.67
582.90	-76.94	-73.39	-1.59	-1.96	-13.00	-63.94
3815.20	-52.07	-58.24	12.27	-6.10	-13.00	-39.07

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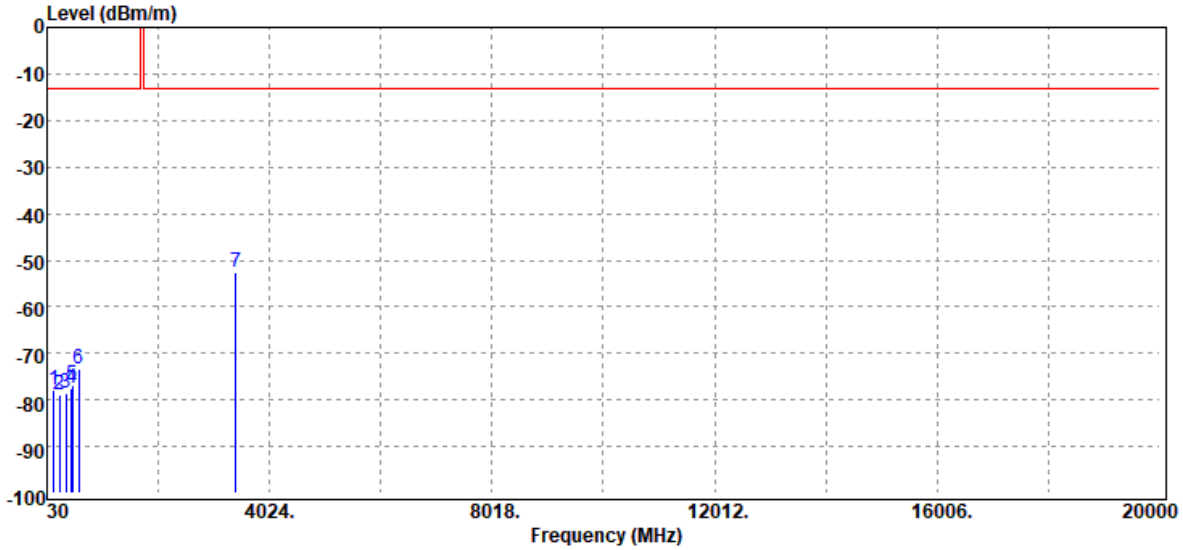
Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B4	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1712.4 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-77.85	-68.88	-7.76	-1.21	-13.00	-64.85
256.01	-79.03	-75.84	-1.62	-1.57	-13.00	-66.03
367.56	-78.67	-75.18	-1.58	-1.91	-13.00	-65.67
469.41	-77.38	-73.62	-1.50	-2.26	-13.00	-64.38
487.84	-76.80	-73.04	-1.54	-2.22	-13.00	-63.80
597.45	-73.45	-69.44	-1.81	-2.20	-13.00	-60.45
3424.80	-52.60	-59.20	12.40	-5.80	-13.00	-39.60

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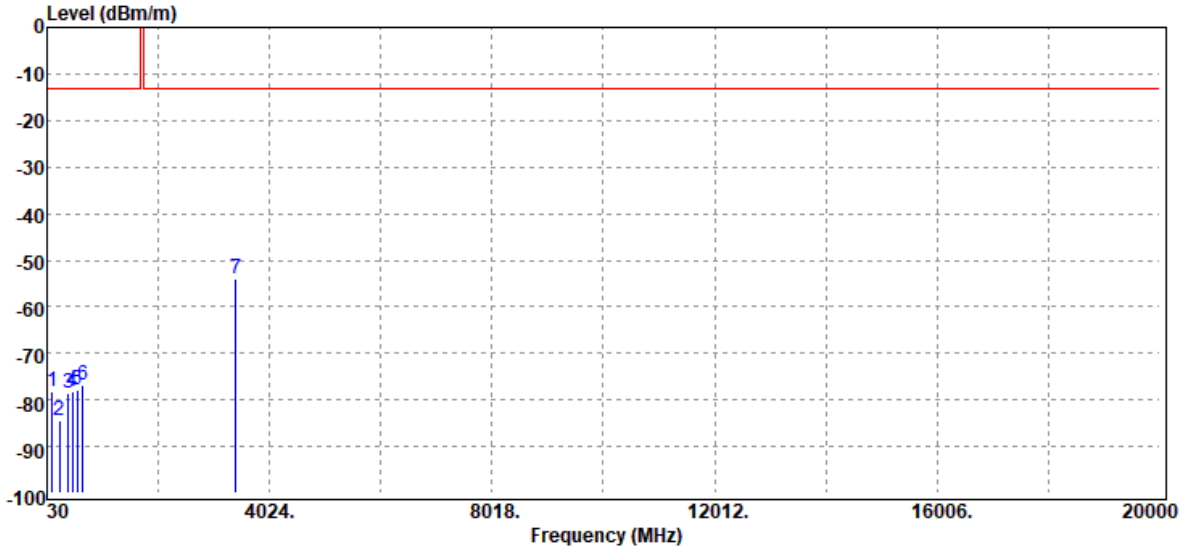
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B4	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1712.4 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
122.15	-78.35	-70.21	-7.10	-1.04	-13.00	-65.35
255.04	-84.52	-81.35	-1.61	-1.56	-13.00	-71.52
415.09	-78.69	-75.16	-1.58	-1.95	-13.00	-65.69
479.11	-78.11	-74.42	-1.44	-2.25	-13.00	-65.11
566.41	-77.86	-74.20	-1.41	-2.25	-13.00	-64.86
667.29	-76.88	-72.54	-1.30	-3.04	-13.00	-63.88
3424.80	-54.04	-60.64	12.40	-5.80	-13.00	-41.04

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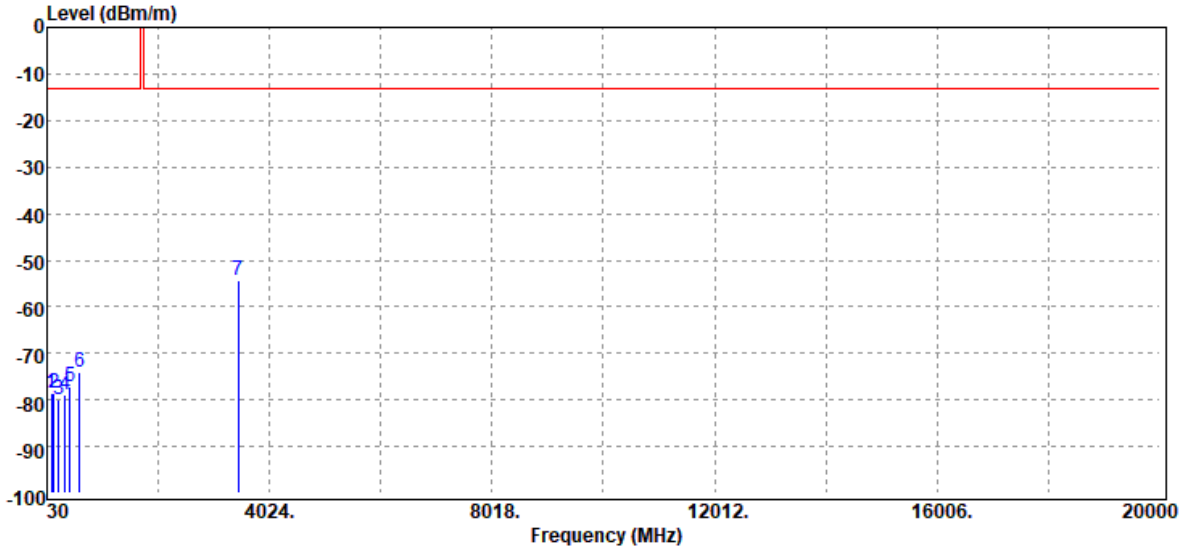
Operation Mode	:WCDMA B4	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1732.4 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.54	-78.68	-70.66	-7.00	-1.02	-13.00	-65.68
149.31	-78.70	-69.73	-7.76	-1.21	-13.00	-65.70
235.64	-79.76	-76.66	-1.64	-1.46	-13.00	-66.76
357.86	-78.95	-75.51	-1.52	-1.92	-13.00	-65.95
442.25	-77.23	-73.64	-1.72	-1.87	-13.00	-64.23
610.06	-74.03	-69.55	-1.93	-2.55	-13.00	-61.03
3464.80	-54.23	-60.85	12.37	-5.75	-13.00	-41.23

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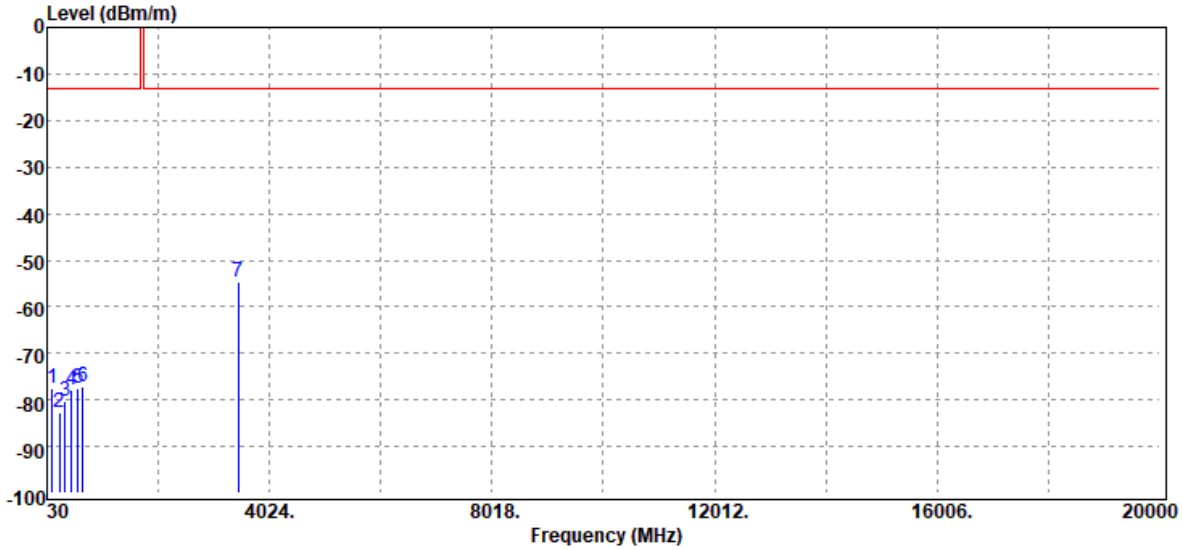
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B4	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1732.4 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
123.12	-77.63	-69.55	-7.04	-1.04	-13.00	-64.63
257.95	-82.73	-79.50	-1.63	-1.60	-13.00	-69.73
356.89	-80.35	-76.90	-1.53	-1.92	-13.00	-67.35
466.50	-77.85	-74.13	-1.49	-2.23	-13.00	-64.85
584.84	-77.42	-73.87	-1.60	-1.95	-13.00	-64.42
670.20	-77.05	-72.77	-1.32	-2.96	-13.00	-64.05
3464.80	-54.59	-61.21	12.37	-5.75	-13.00	-41.59

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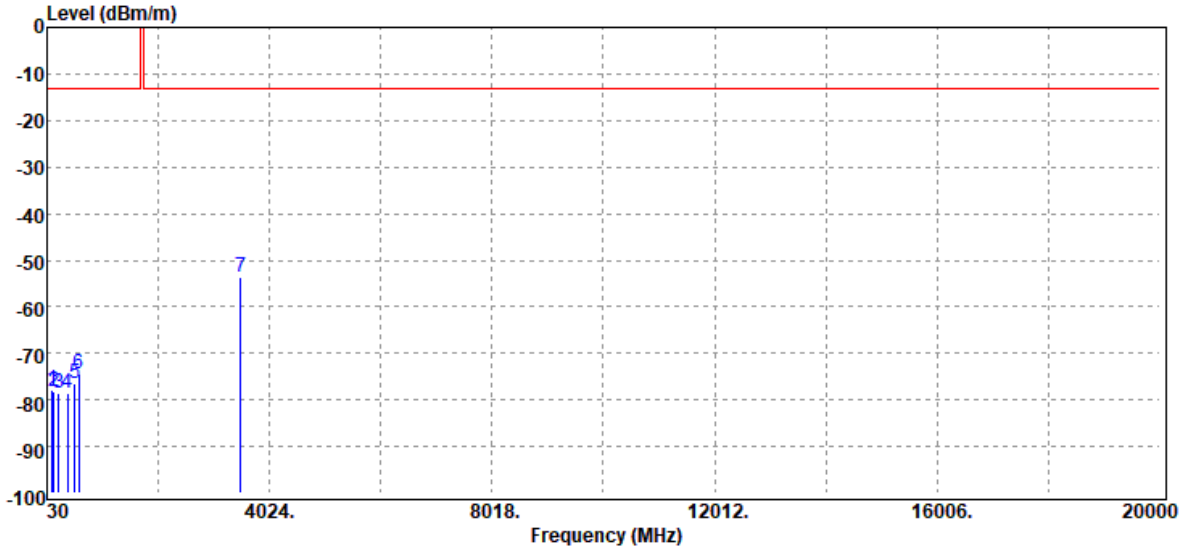
Operation Mode	:WCDMA B4	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1752.6 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
117.30	-77.70	-69.59	-7.09	-1.02	-13.00	-64.70
146.40	-78.08	-68.97	-7.93	-1.18	-13.00	-65.08
246.31	-78.70	-75.55	-1.67	-1.48	-13.00	-65.70
403.45	-78.44	-74.92	-1.59	-1.93	-13.00	-65.44
521.79	-76.49	-72.46	-1.49	-2.54	-13.00	-63.49
600.36	-74.46	-70.27	-1.89	-2.30	-13.00	-61.46
3505.20	-53.61	-60.17	12.28	-5.72	-13.00	-40.61

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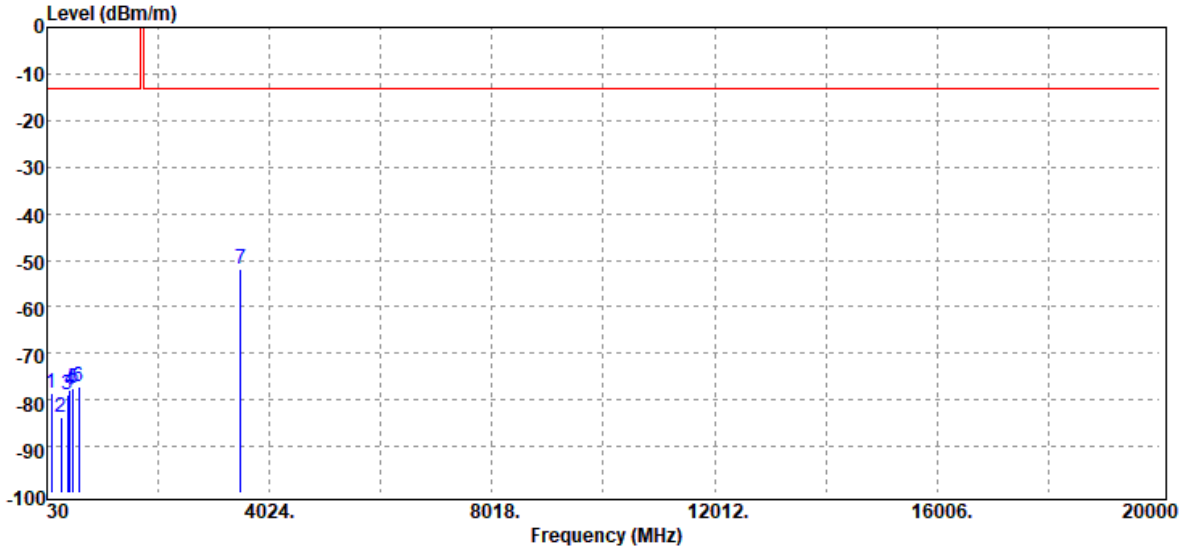
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B4	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1752.6 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-78.39	-70.34	-7.02	-1.03	-13.00	-65.39
282.20	-83.86	-80.34	-1.87	-1.65	-13.00	-70.86
391.81	-78.92	-75.33	-1.62	-1.97	-13.00	-65.92
444.19	-77.93	-74.34	-1.69	-1.90	-13.00	-64.93
498.51	-77.43	-73.62	-1.49	-2.32	-13.00	-64.43
595.51	-77.15	-73.26	-1.76	-2.13	-13.00	-64.15
3505.20	-51.76	-58.32	12.28	-5.72	-13.00	-38.76

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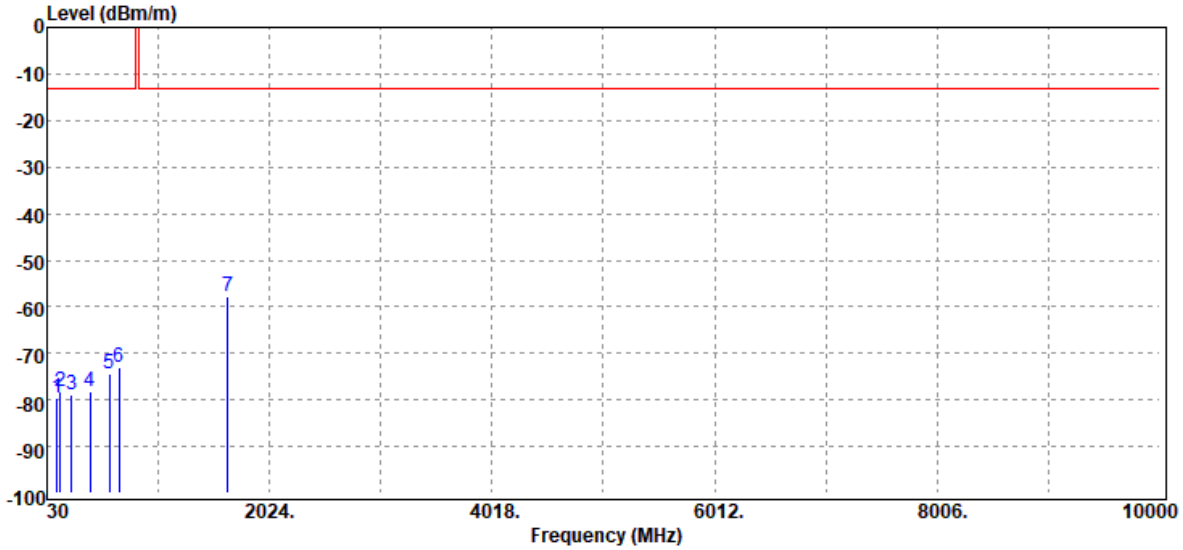
Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B5	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:826.4 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
117.30	-79.53	-71.42	-7.09	-1.02	-13.00	-66.53
146.40	-78.36	-69.25	-7.93	-1.18	-13.00	-65.36
253.10	-79.01	-75.83	-1.64	-1.54	-13.00	-66.01
416.06	-78.26	-74.70	-1.60	-1.96	-13.00	-65.26
587.75	-74.26	-70.64	-1.67	-1.95	-13.00	-61.26
672.14	-73.12	-68.96	-1.29	-2.87	-13.00	-60.12
1652.80	-57.87	-63.18	9.32	-4.01	-13.00	-44.87

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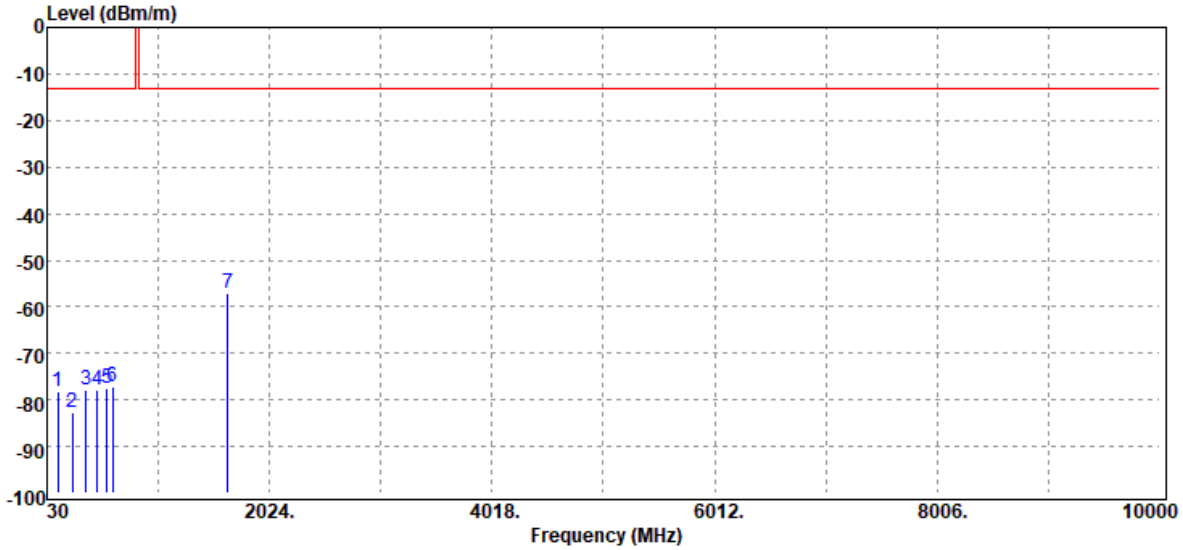
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B5	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:826.4 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-78.26	-70.14	-7.07	-1.05	-13.00	-65.26
255.04	-82.74	-79.57	-1.61	-1.56	-13.00	-69.74
382.11	-77.90	-74.33	-1.64	-1.93	-13.00	-64.90
481.05	-77.73	-74.05	-1.44	-2.24	-13.00	-64.73
566.41	-77.55	-73.89	-1.41	-2.25	-13.00	-64.55
619.76	-77.01	-72.78	-1.70	-2.53	-13.00	-64.01
1652.80	-57.00	-62.31	9.32	-4.01	-13.00	-44.00

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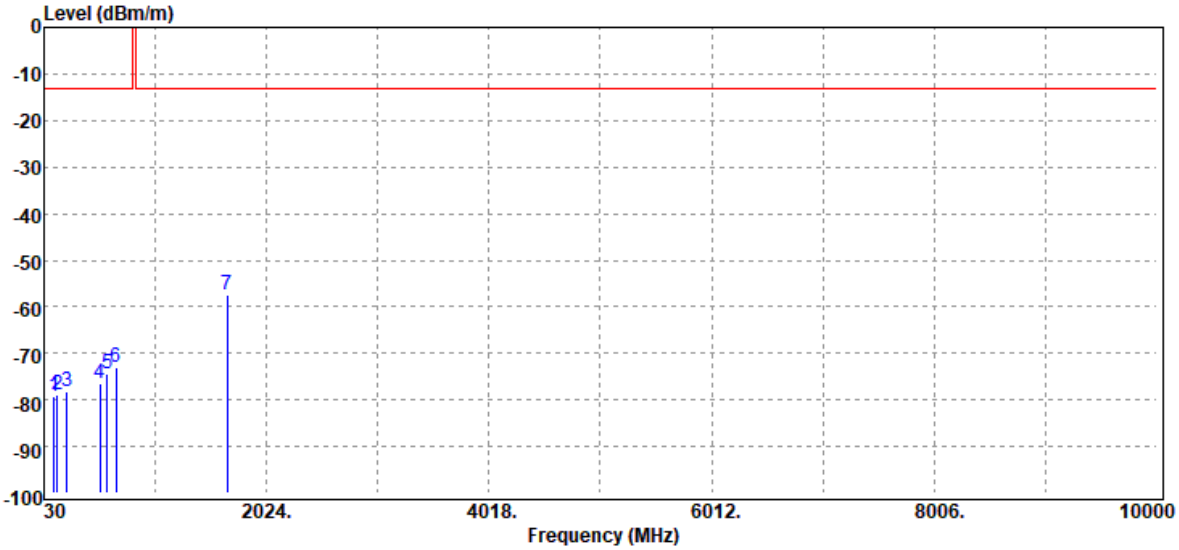
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B5	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:836.6 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
117.30	-79.38	-71.27	-7.09	-1.02	-13.00	-66.38
149.31	-79.02	-70.05	-7.76	-1.21	-13.00	-66.02
238.55	-78.25	-75.10	-1.71	-1.44	-13.00	-65.25
534.40	-76.48	-72.85	-1.38	-2.25	-13.00	-63.48
599.39	-74.49	-70.36	-1.86	-2.27	-13.00	-61.49
677.96	-72.93	-69.05	-1.27	-2.61	-13.00	-59.93
1673.20	-57.52	-62.98	9.49	-4.03	-13.00	-44.52

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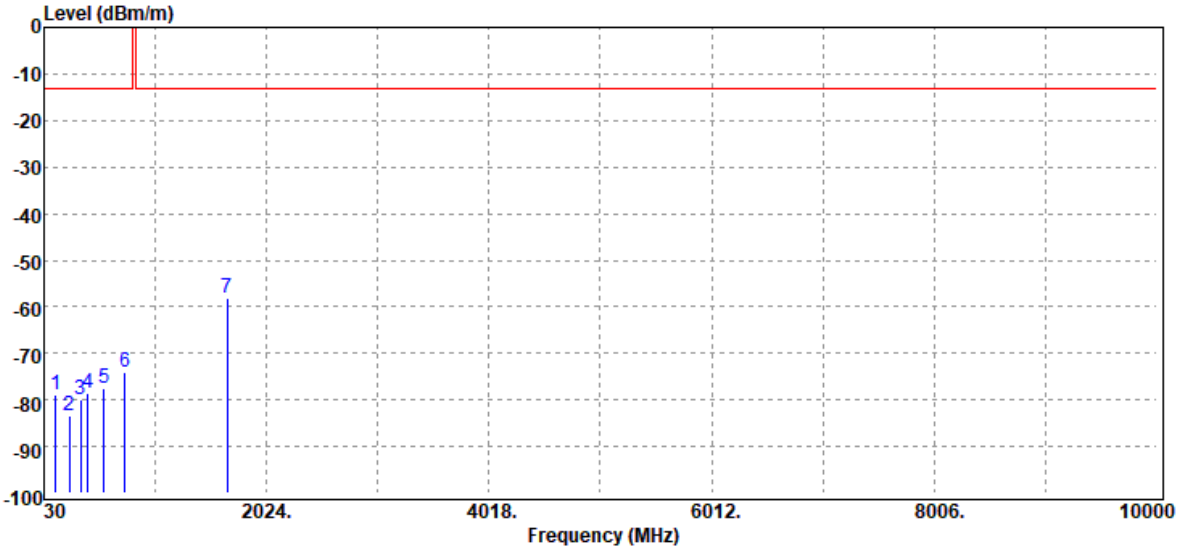
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B5	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:836.6 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
131.85	-78.75	-70.22	-7.42	-1.11	-13.00	-65.75
259.89	-83.44	-80.18	-1.64	-1.62	-13.00	-70.44
361.74	-80.09	-76.63	-1.54	-1.92	-13.00	-67.09
419.94	-78.39	-74.74	-1.68	-1.97	-13.00	-65.39
566.41	-77.46	-73.80	-1.41	-2.25	-13.00	-64.46
752.65	-74.21	-69.86	-1.81	-2.54	-13.00	-61.21
1673.20	-58.11	-63.57	9.49	-4.03	-13.00	-45.11

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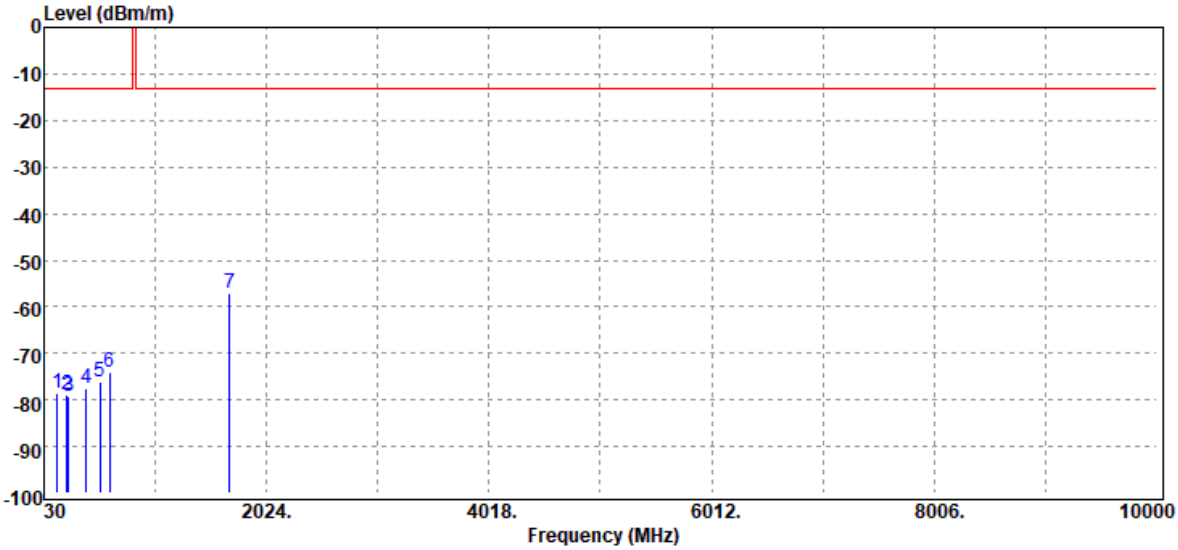
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B5	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:846.6 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-78.63	-69.66	-7.76	-1.21	-13.00	-65.63
236.61	-79.03	-75.91	-1.66	-1.46	-13.00	-66.03
253.10	-79.09	-75.91	-1.64	-1.54	-13.00	-66.09
405.39	-77.57	-74.05	-1.59	-1.93	-13.00	-64.57
532.46	-76.03	-72.34	-1.41	-2.28	-13.00	-63.03
618.79	-74.11	-69.85	-1.73	-2.53	-13.00	-61.11
1693.20	-57.01	-62.61	9.65	-4.05	-13.00	-44.01

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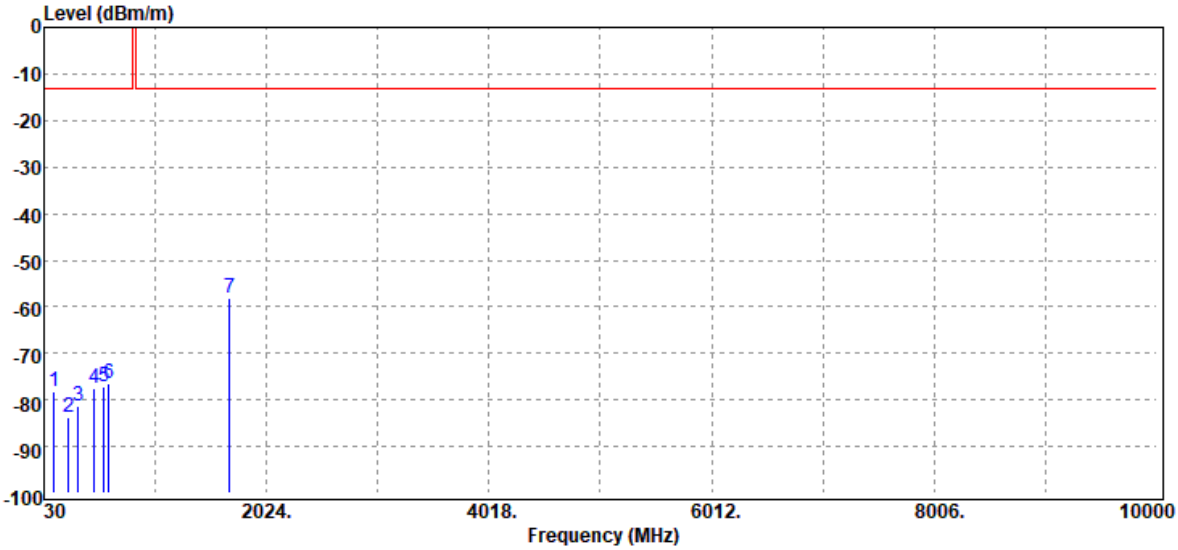
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:WCDMA B5	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:846.6 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
122.15	-78.15	-70.01	-7.10	-1.04	-13.00	-65.15
253.10	-83.84	-80.66	-1.64	-1.54	-13.00	-70.84
335.55	-81.36	-77.82	-1.64	-1.90	-13.00	-68.36
483.96	-77.64	-73.90	-1.51	-2.23	-13.00	-64.64
565.44	-77.02	-73.36	-1.40	-2.26	-13.00	-64.02
613.94	-76.50	-72.09	-1.87	-2.54	-13.00	-63.50
1693.20	-58.01	-63.61	9.65	-4.05	-13.00	-45.01

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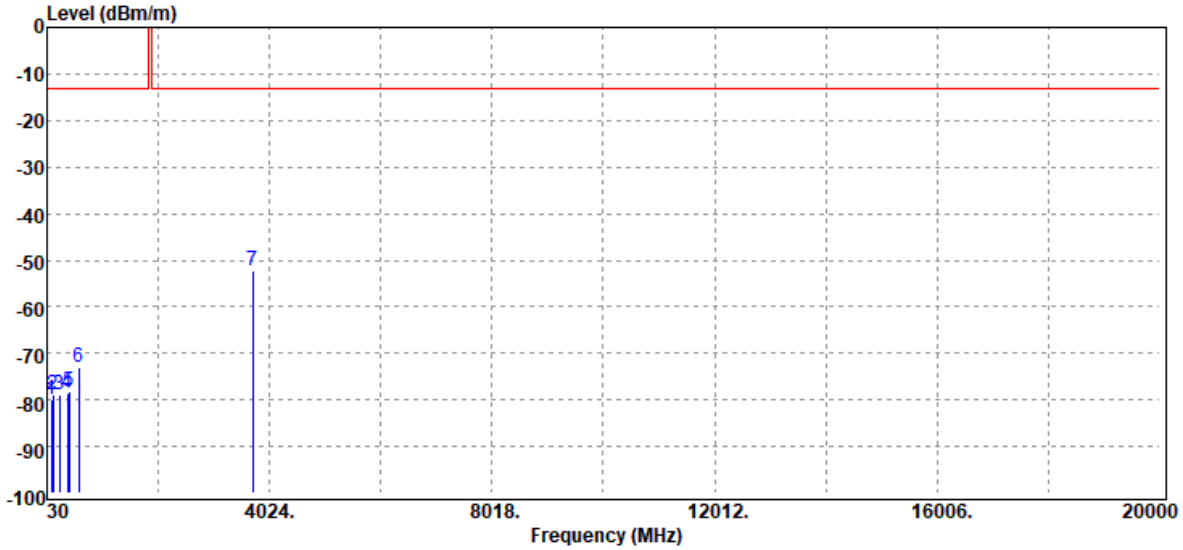
Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B2	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1860.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
115.36	-80.04	-71.88	-7.14	-1.02	-13.00	-67.04
138.64	-79.04	-70.14	-7.77	-1.13	-13.00	-66.04
255.04	-78.88	-75.71	-1.61	-1.56	-13.00	-65.88
396.66	-78.42	-74.87	-1.61	-1.94	-13.00	-65.42
430.61	-78.34	-74.83	-1.67	-1.84	-13.00	-65.34
594.54	-73.09	-69.24	-1.75	-2.10	-13.00	-60.09
3720.00	-52.19	-58.59	12.36	-5.96	-13.00	-39.19

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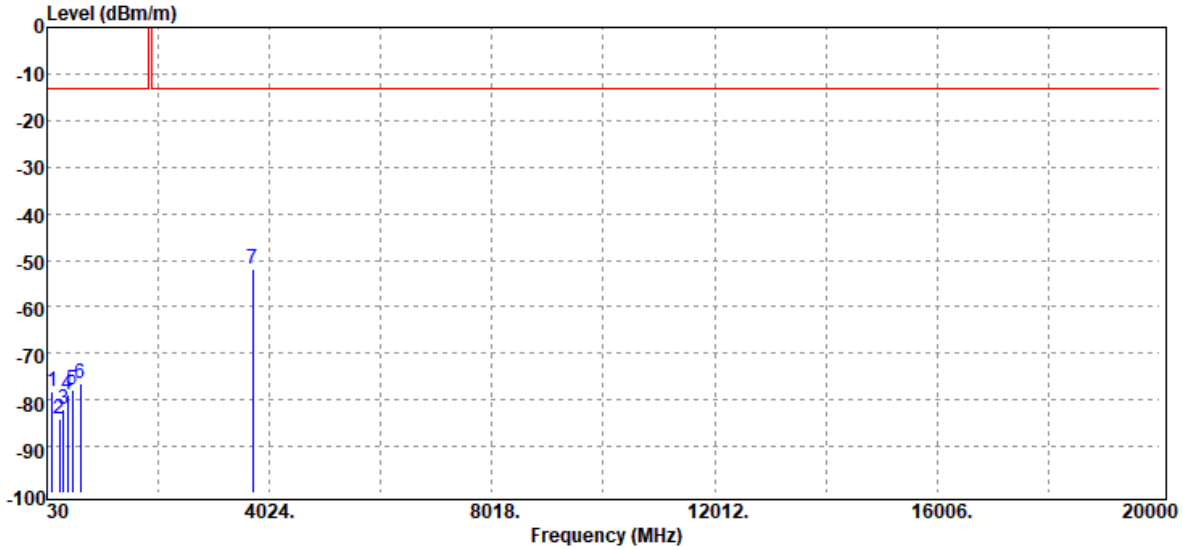
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B2	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1860.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
123.12	-78.13	-70.05	-7.04	-1.04	-13.00	-65.13
255.04	-84.23	-81.06	-1.61	-1.56	-13.00	-71.23
321.00	-82.08	-78.60	-1.71	-1.77	-13.00	-69.08
395.69	-79.03	-75.47	-1.61	-1.95	-13.00	-66.03
478.14	-77.85	-74.15	-1.45	-2.25	-13.00	-64.85
636.25	-76.52	-72.48	-1.56	-2.48	-13.00	-63.52
3720.00	-52.01	-58.41	12.36	-5.96	-13.00	-39.01

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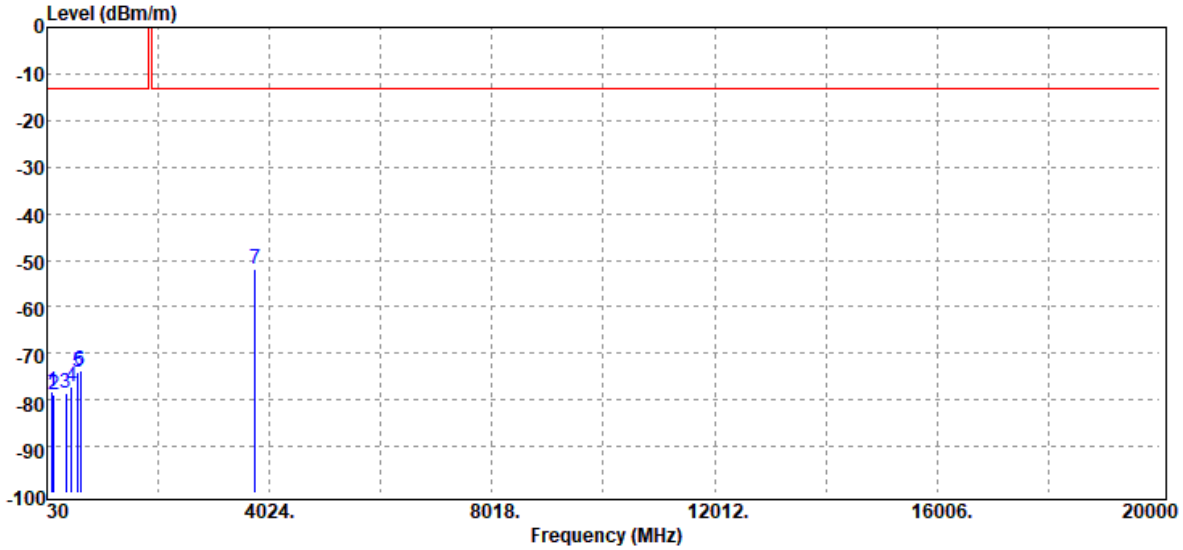
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B2	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1880.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
117.30	-78.15	-70.04	-7.09	-1.02	-13.00	-65.15
153.19	-78.93	-70.21	-7.46	-1.26	-13.00	-65.93
374.35	-78.68	-75.12	-1.65	-1.91	-13.00	-65.68
476.20	-77.29	-73.55	-1.49	-2.25	-13.00	-64.29
590.66	-74.11	-70.43	-1.72	-1.96	-13.00	-61.11
624.61	-73.84	-69.72	-1.63	-2.49	-13.00	-60.84
3760.00	-52.00	-58.28	12.30	-6.02	-13.00	-39.00

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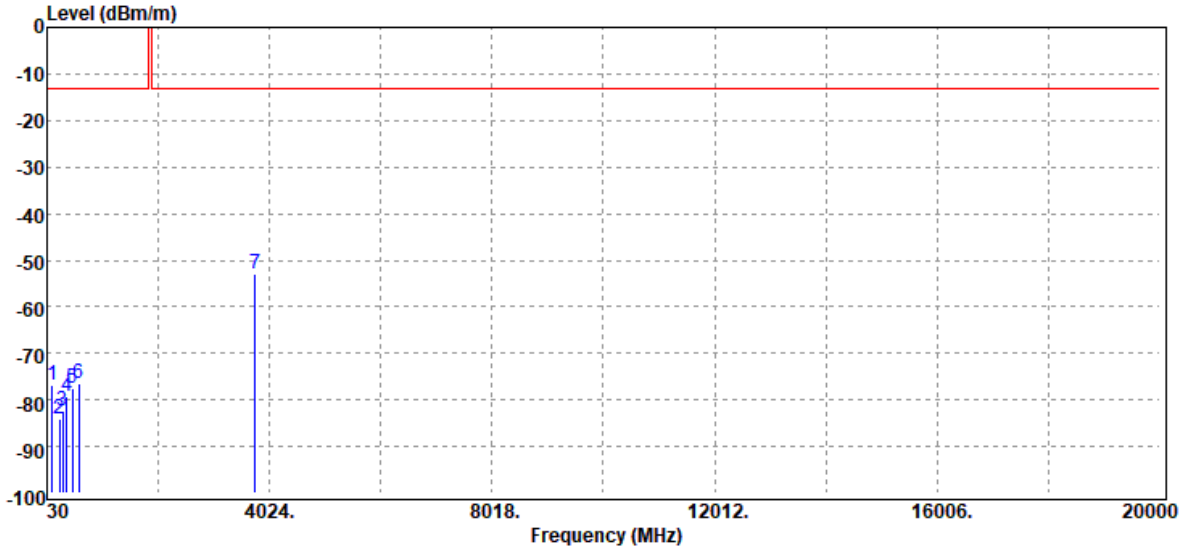
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B2	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1880.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-76.94	-68.78	-7.10	-1.06	-13.00	-63.94
257.95	-84.07	-80.84	-1.63	-1.60	-13.00	-71.07
316.15	-82.32	-79.02	-1.61	-1.69	-13.00	-69.32
388.90	-79.20	-75.60	-1.62	-1.98	-13.00	-66.20
482.99	-77.61	-73.89	-1.49	-2.23	-13.00	-64.61
599.39	-76.43	-72.30	-1.86	-2.27	-13.00	-63.43
3760.00	-52.89	-59.17	12.30	-6.02	-13.00	-39.89

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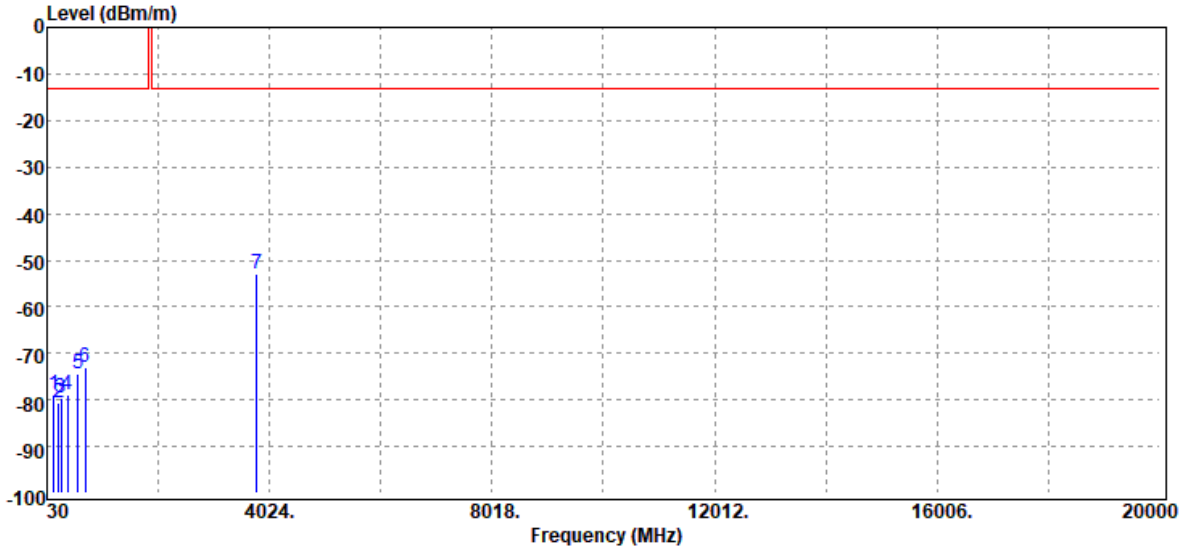
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B2	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1900.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-78.93	-69.96	-7.76	-1.21	-13.00	-65.93
238.55	-80.56	-77.41	-1.71	-1.44	-13.00	-67.56
284.14	-79.68	-76.17	-1.85	-1.66	-13.00	-66.68
395.69	-78.88	-75.32	-1.61	-1.95	-13.00	-65.88
590.66	-74.31	-70.63	-1.72	-1.96	-13.00	-61.31
721.61	-72.97	-69.21	-1.37	-2.39	-13.00	-59.97
3800.00	-53.07	-59.30	12.30	-6.07	-13.00	-40.07

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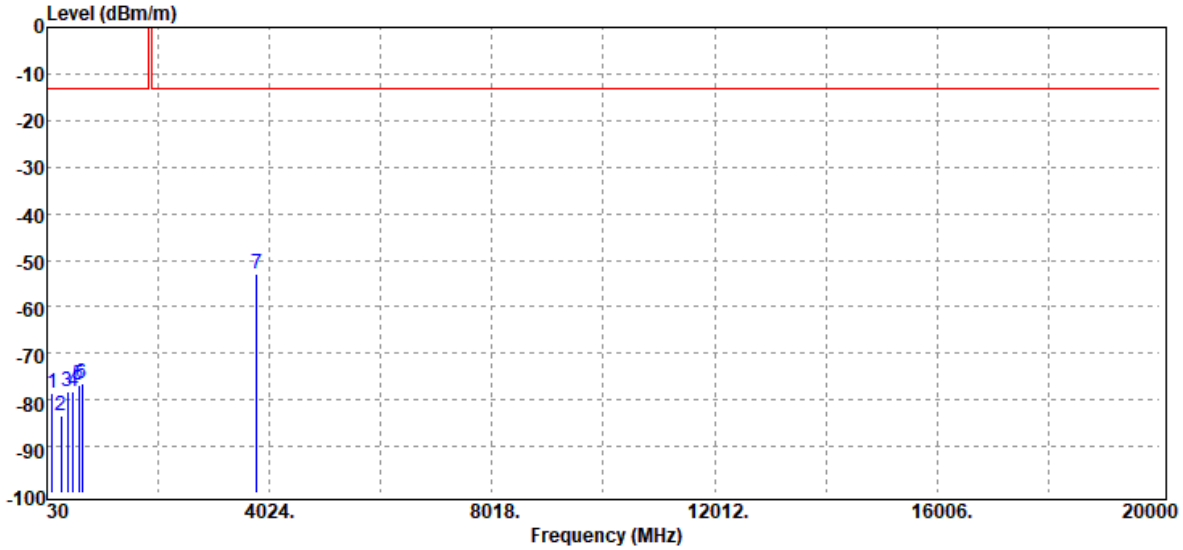
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B2	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1900.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
117.30	-78.57	-70.46	-7.09	-1.02	-13.00	-65.57
288.99	-83.48	-80.00	-1.80	-1.68	-13.00	-70.48
403.45	-78.05	-74.53	-1.59	-1.93	-13.00	-65.05
493.66	-78.05	-74.24	-1.55	-2.26	-13.00	-65.05
607.15	-76.88	-72.43	-1.97	-2.48	-13.00	-63.88
658.56	-76.61	-72.01	-1.44	-3.16	-13.00	-63.61
3800.00	-53.02	-59.25	12.30	-6.07	-13.00	-40.02

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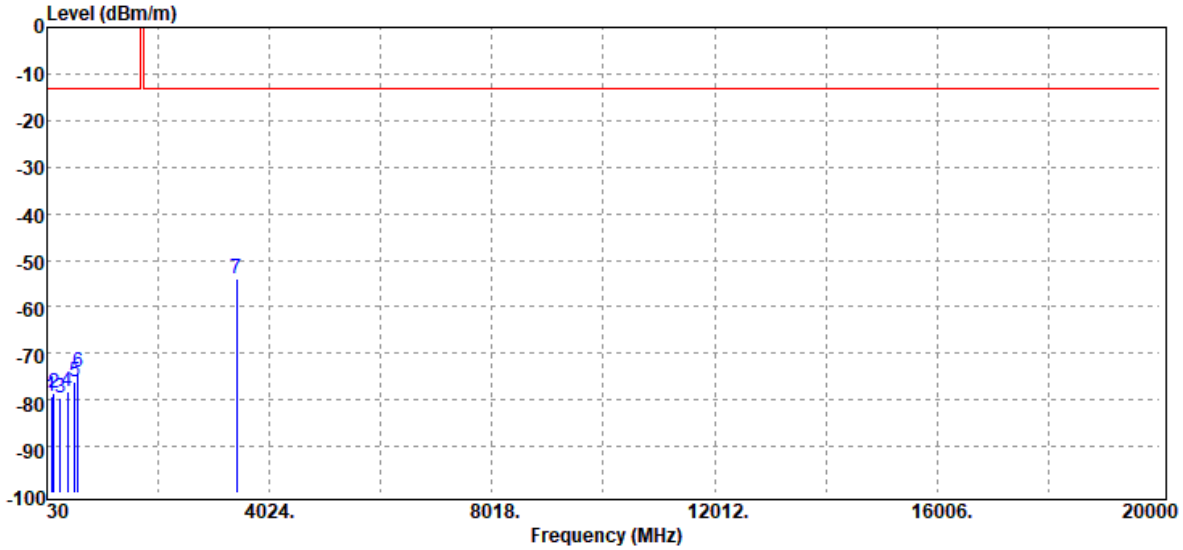
Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B4	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1720.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-79.19	-71.10	-7.07	-1.02	-13.00	-66.19
149.31	-78.43	-69.46	-7.76	-1.21	-13.00	-65.43
275.41	-79.72	-76.13	-1.95	-1.64	-13.00	-66.72
396.66	-78.18	-74.63	-1.61	-1.94	-13.00	-65.18
524.70	-76.22	-72.32	-1.44	-2.46	-13.00	-63.22
579.99	-74.16	-70.62	-1.57	-1.97	-13.00	-61.16
3440.00	-53.89	-60.51	12.40	-5.78	-13.00	-40.89

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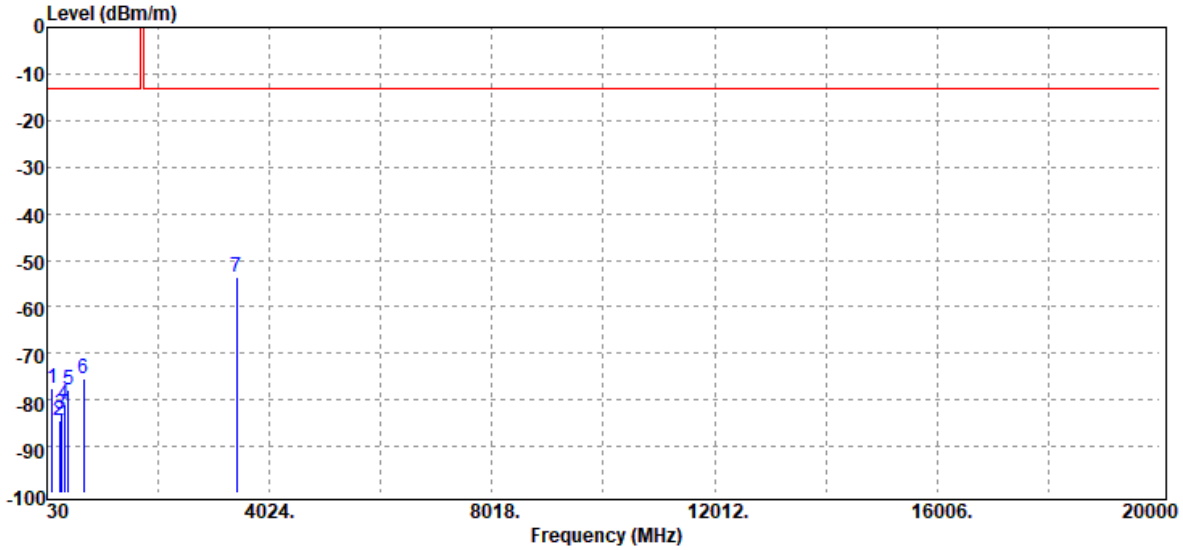
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B4	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1720.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-77.64	-69.52	-7.07	-1.05	-13.00	-64.64
251.16	-84.43	-81.25	-1.66	-1.52	-13.00	-71.43
288.99	-83.10	-79.62	-1.80	-1.68	-13.00	-70.10
342.34	-80.87	-77.38	-1.60	-1.89	-13.00	-67.87
418.00	-77.92	-74.31	-1.64	-1.97	-13.00	-64.92
691.54	-75.54	-71.76	-1.27	-2.51	-13.00	-62.54
3440.00	-53.50	-60.12	12.40	-5.78	-13.00	-40.50

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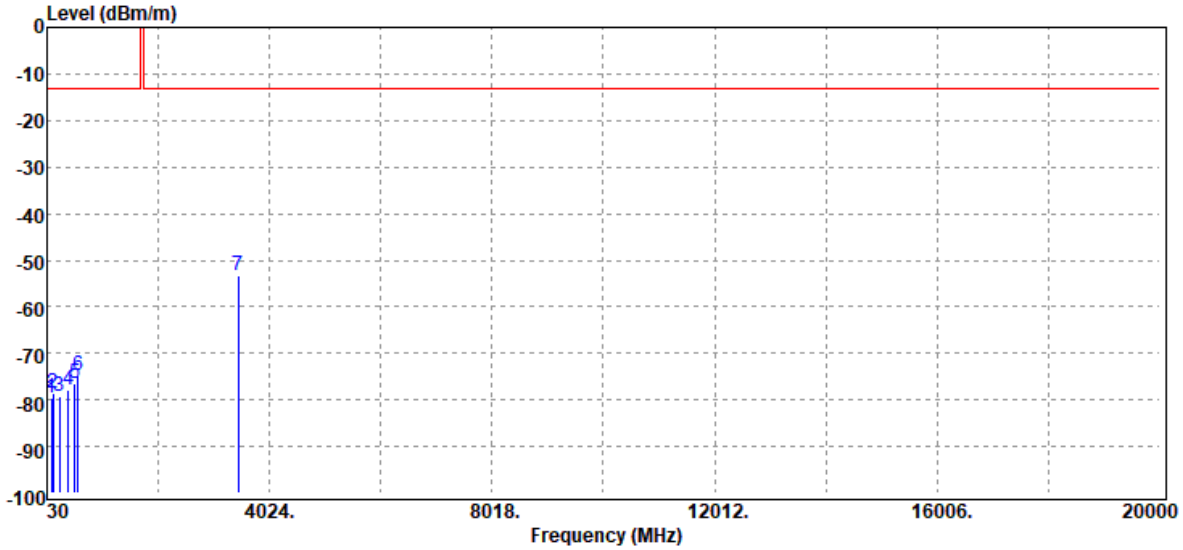
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B4	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1732.5 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-79.55	-71.50	-7.02	-1.03	-13.00	-66.55
144.46	-78.59	-69.48	-7.94	-1.17	-13.00	-65.59
255.04	-79.34	-76.17	-1.61	-1.56	-13.00	-66.34
408.30	-77.96	-74.45	-1.58	-1.93	-13.00	-64.96
524.70	-76.32	-72.42	-1.44	-2.46	-13.00	-63.32
592.60	-74.61	-70.84	-1.74	-2.03	-13.00	-61.61
3465.00	-53.39	-60.01	12.37	-5.75	-13.00	-40.39

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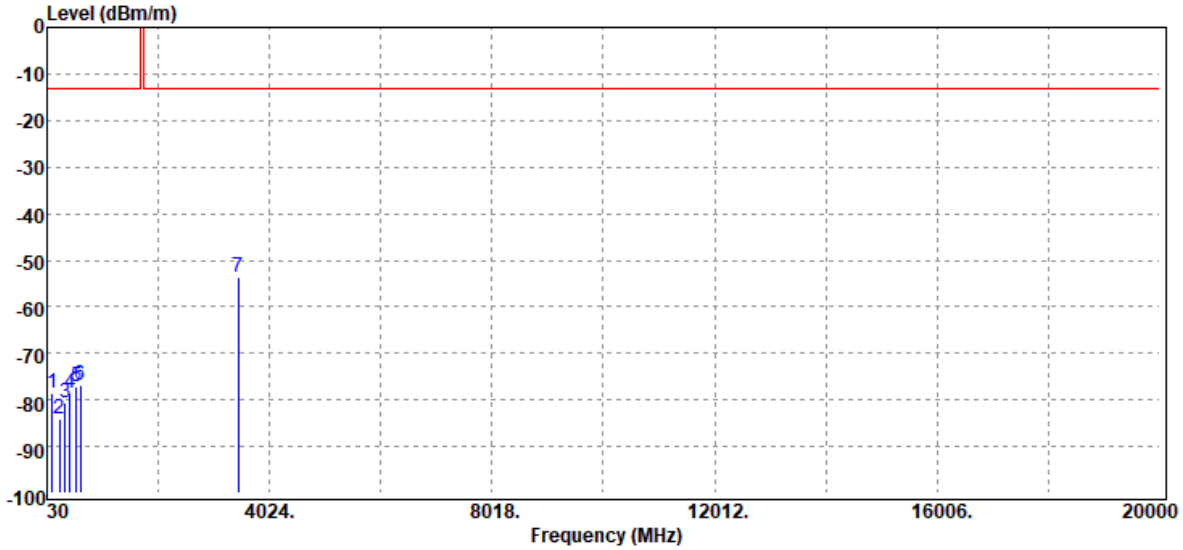
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B4	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1732.5 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
122.15	-78.47	-70.33	-7.10	-1.04	-13.00	-65.47
257.95	-84.25	-81.02	-1.63	-1.60	-13.00	-71.25
352.04	-80.75	-77.36	-1.49	-1.90	-13.00	-67.75
435.46	-78.68	-75.17	-1.68	-1.83	-13.00	-65.68
550.89	-77.26	-73.61	-1.43	-2.22	-13.00	-64.26
631.40	-76.70	-72.62	-1.63	-2.45	-13.00	-63.70
3465.00	-53.47	-60.09	12.37	-5.75	-13.00	-40.47

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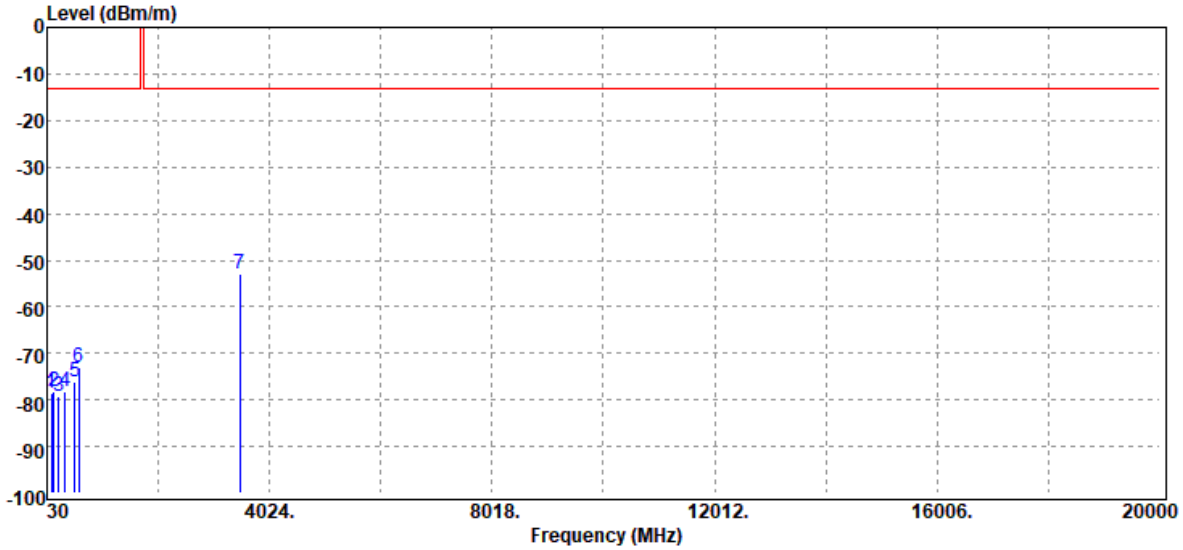
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B4	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1745.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-78.63	-70.54	-7.07	-1.02	-13.00	-65.63
151.25	-78.26	-69.39	-7.64	-1.23	-13.00	-65.26
240.49	-79.28	-76.12	-1.73	-1.43	-13.00	-66.28
361.74	-78.35	-74.89	-1.54	-1.92	-13.00	-65.35
532.46	-76.04	-72.35	-1.41	-2.28	-13.00	-63.04
594.54	-73.06	-69.21	-1.75	-2.10	-13.00	-60.06
3490.00	-52.98	-59.59	12.32	-5.71	-13.00	-39.98

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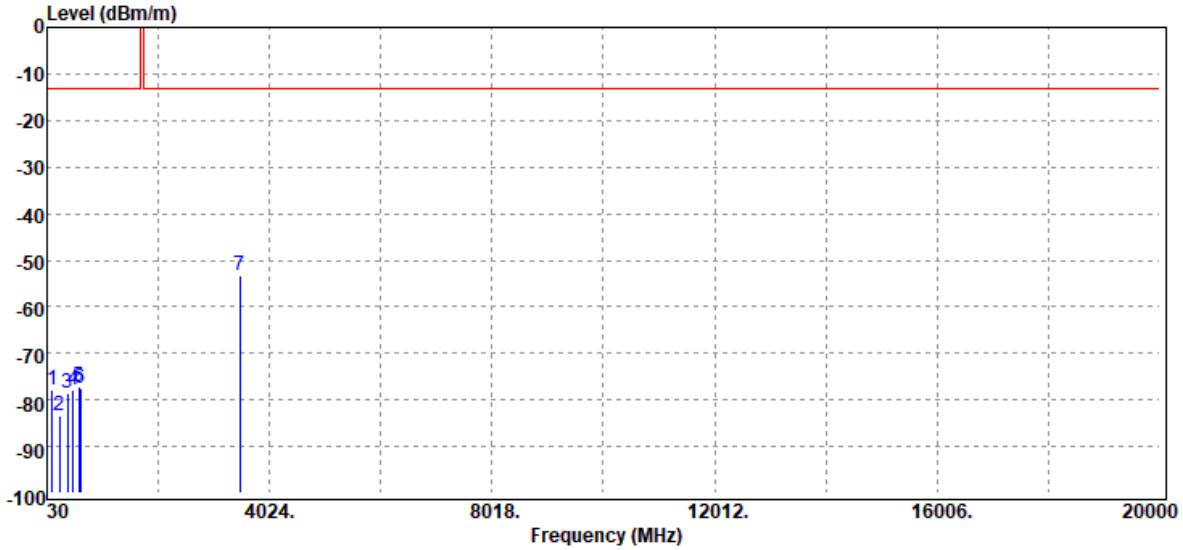
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B4	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:1745.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
123.12	-77.73	-69.65	-7.04	-1.04	-13.00	-64.73
257.95	-83.37	-80.14	-1.63	-1.60	-13.00	-70.37
398.60	-78.54	-75.01	-1.60	-1.93	-13.00	-65.54
497.54	-77.92	-74.11	-1.50	-2.31	-13.00	-64.92
594.54	-77.15	-73.30	-1.75	-2.10	-13.00	-64.15
636.25	-77.50	-73.46	-1.56	-2.48	-13.00	-64.50
3490.00	-53.45	-60.06	12.32	-5.71	-13.00	-40.45

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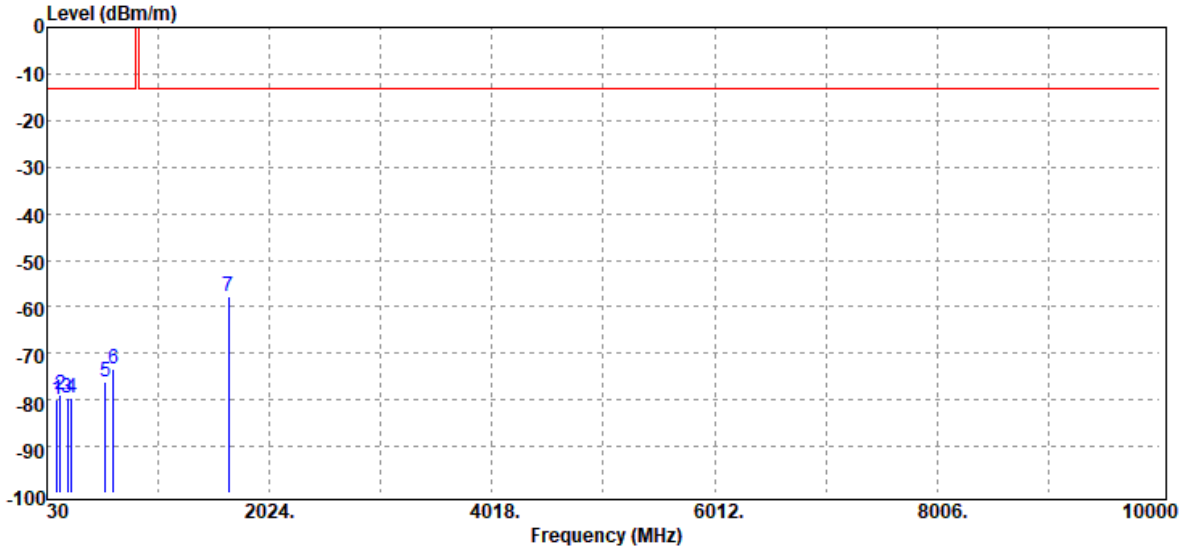
Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B5	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:829.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
117.30	-79.84	-71.73	-7.09	-1.02	-13.00	-66.84
149.31	-78.96	-69.99	-7.76	-1.21	-13.00	-65.96
211.39	-79.48	-76.49	-1.57	-1.42	-13.00	-66.48
253.10	-79.58	-76.40	-1.64	-1.54	-13.00	-66.58
551.86	-76.21	-72.54	-1.44	-2.23	-13.00	-63.21
628.49	-73.38	-69.28	-1.64	-2.46	-13.00	-60.38
1658.00	-57.80	-63.14	9.36	-4.02	-13.00	-44.80

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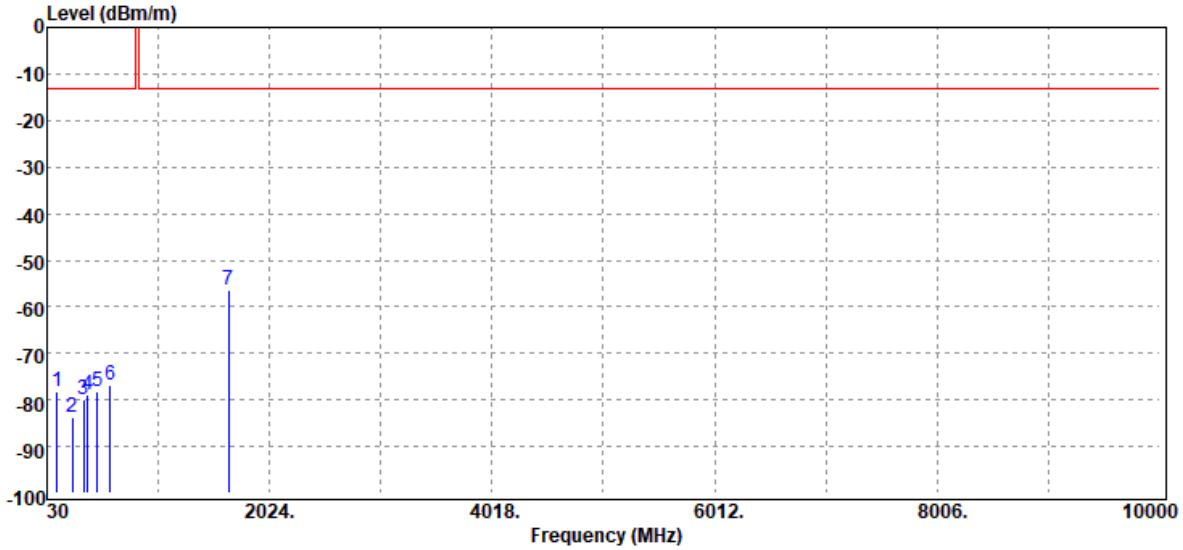
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B5	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:829.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
123.12	-78.36	-70.28	-7.04	-1.04	-13.00	-65.36
256.01	-83.77	-80.58	-1.62	-1.57	-13.00	-70.77
354.95	-80.06	-76.61	-1.54	-1.91	-13.00	-67.06
396.66	-78.87	-75.32	-1.61	-1.94	-13.00	-65.87
482.99	-78.10	-74.38	-1.49	-2.23	-13.00	-65.10
599.39	-76.88	-72.75	-1.86	-2.27	-13.00	-63.88
1658.00	-56.24	-61.58	9.36	-4.02	-13.00	-43.24

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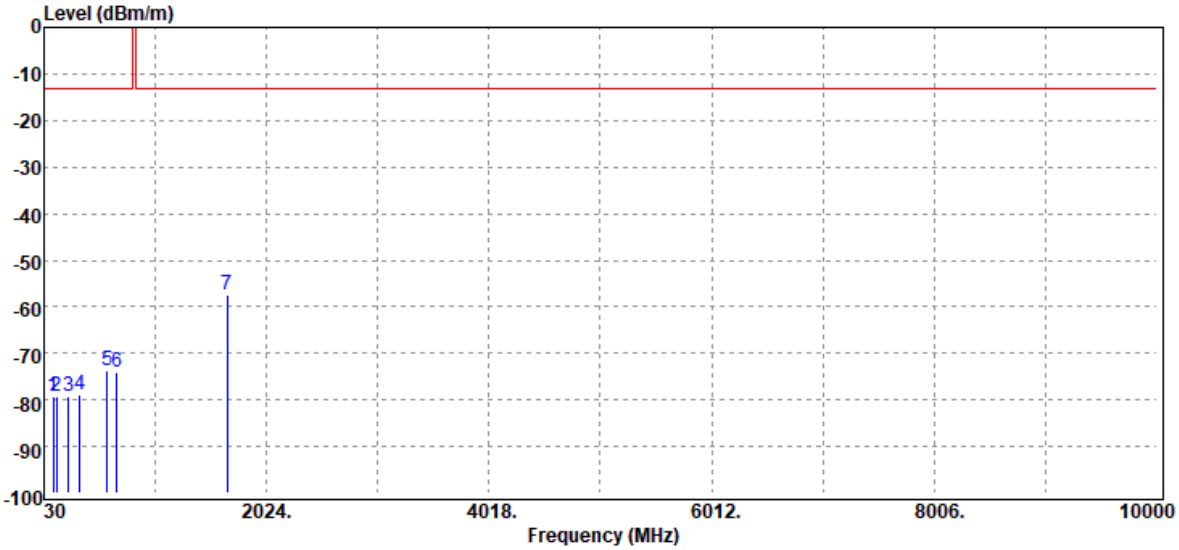
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B5	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:836.5 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
115.36	-79.35	-71.19	-7.14	-1.02	-13.00	-66.35
141.55	-79.37	-70.30	-7.92	-1.15	-13.00	-66.37
251.16	-79.09	-75.91	-1.66	-1.52	-13.00	-66.09
348.16	-79.05	-75.66	-1.50	-1.89	-13.00	-66.05
595.51	-73.80	-69.91	-1.76	-2.13	-13.00	-60.80
679.90	-73.97	-70.16	-1.29	-2.52	-13.00	-60.97
1673.00	-57.51	-62.97	9.49	-4.03	-13.00	-44.51

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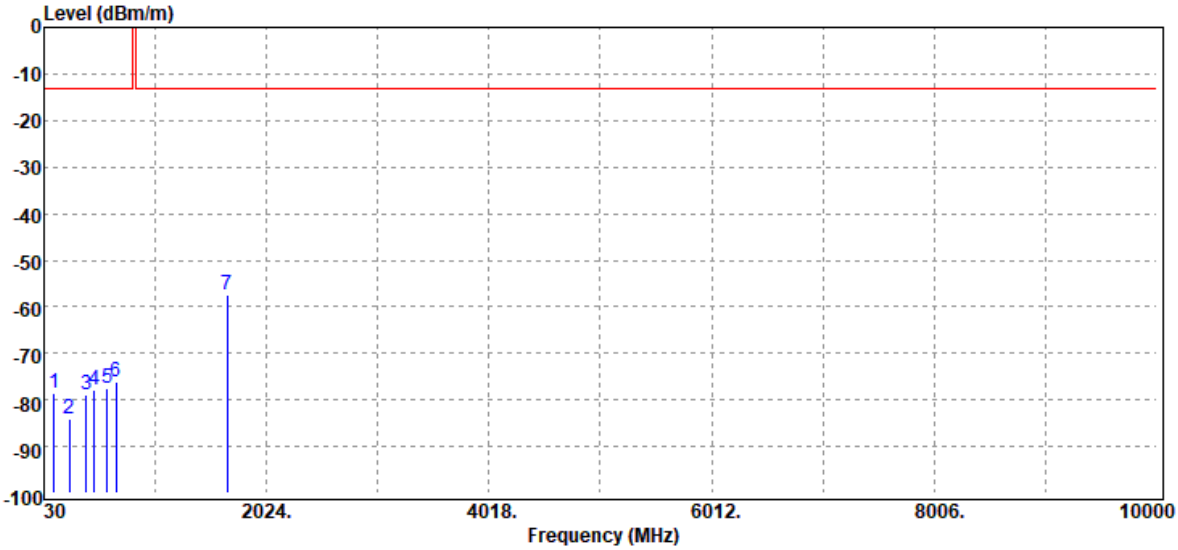
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B5	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:836.5 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
123.12	-78.38	-70.30	-7.04	-1.04	-13.00	-65.38
255.04	-83.98	-80.81	-1.61	-1.56	-13.00	-70.98
405.39	-78.72	-75.20	-1.59	-1.93	-13.00	-65.72
481.05	-77.98	-74.30	-1.44	-2.24	-13.00	-64.98
599.39	-77.36	-73.23	-1.86	-2.27	-13.00	-64.36
675.05	-76.15	-72.16	-1.25	-2.74	-13.00	-63.15
1673.00	-57.45	-62.91	9.49	-4.03	-13.00	-44.45

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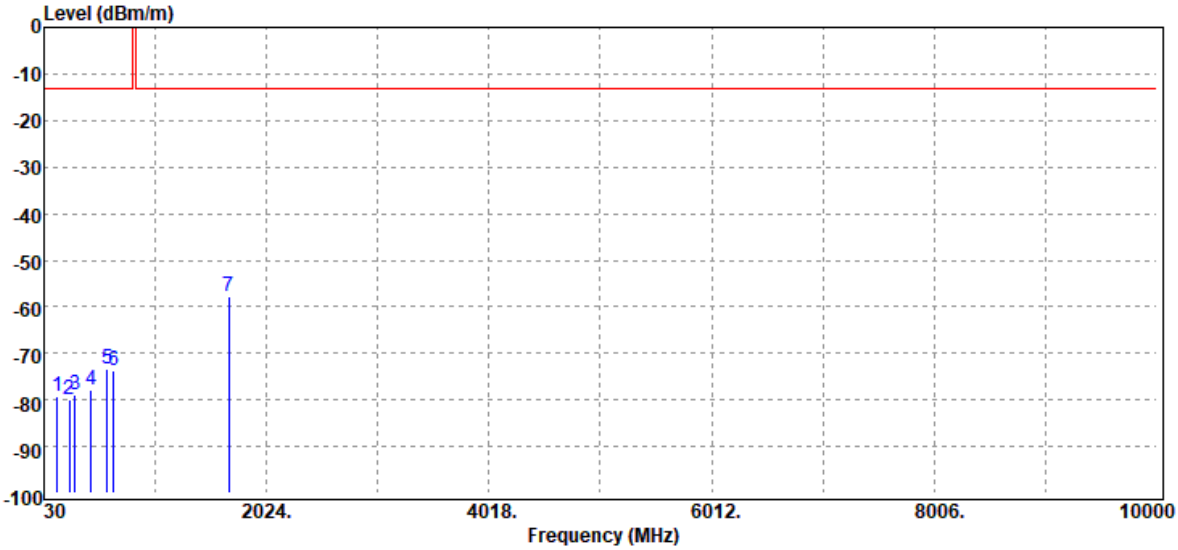
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B5	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:844.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
149.31	-79.38	-70.41	-7.76	-1.21	-13.00	-66.38
259.89	-80.03	-76.77	-1.64	-1.62	-13.00	-67.03
304.51	-79.06	-75.76	-1.65	-1.65	-13.00	-66.06
449.04	-77.91	-74.23	-1.68	-2.00	-13.00	-64.91
594.54	-73.44	-69.59	-1.75	-2.10	-13.00	-60.44
650.80	-73.73	-69.35	-1.47	-2.91	-13.00	-60.73
1688.00	-57.84	-63.40	9.61	-4.05	-13.00	-44.84

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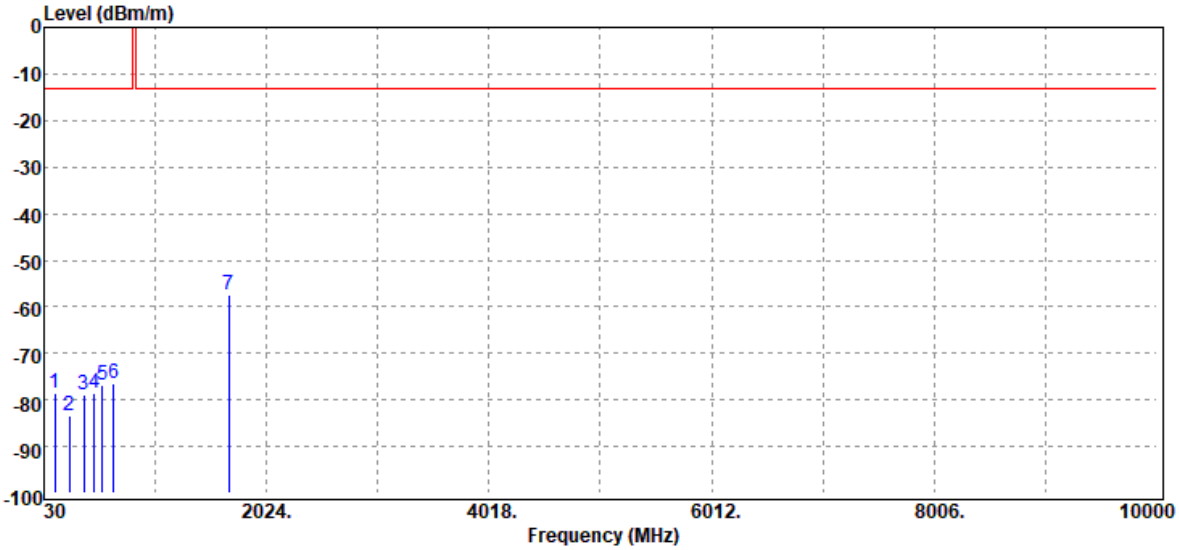
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B5	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:844.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-78.42	-70.26	-7.10	-1.06	-13.00	-65.42
259.89	-83.38	-80.12	-1.64	-1.62	-13.00	-70.38
388.90	-78.79	-75.19	-1.62	-1.98	-13.00	-65.79
483.96	-78.60	-74.86	-1.51	-2.23	-13.00	-65.60
553.80	-76.73	-73.03	-1.45	-2.25	-13.00	-63.73
653.71	-76.47	-72.02	-1.44	-3.01	-13.00	-63.47
1688.00	-57.58	-63.14	9.61	-4.05	-13.00	-44.58

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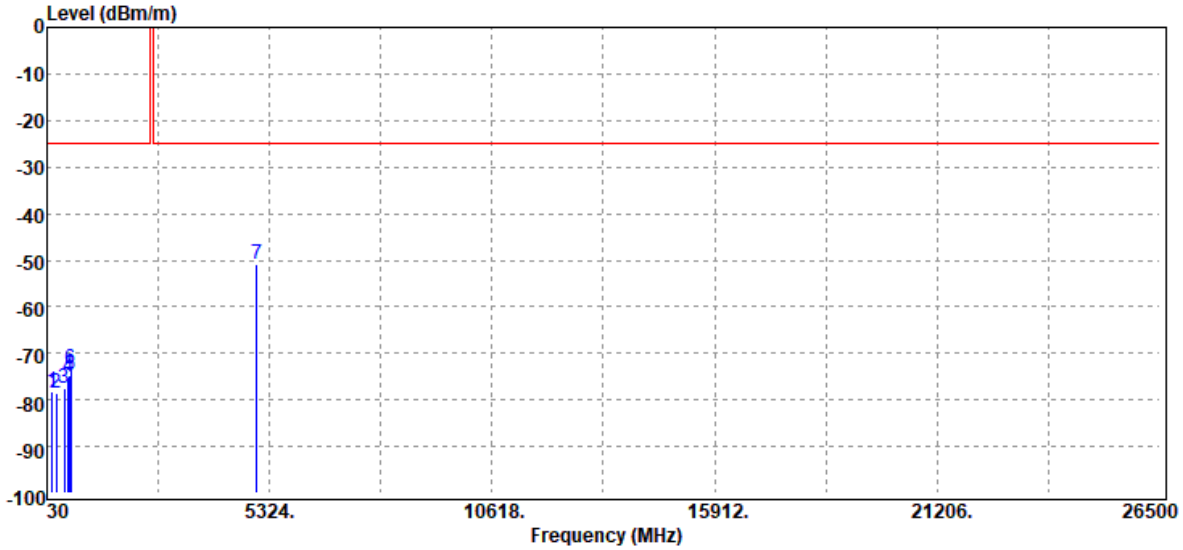
Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B7	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:2510.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
151.25	-78.06	-69.19	-7.64	-1.23	-25.00	-53.06
256.01	-78.55	-75.36	-1.62	-1.57	-25.00	-53.55
442.25	-77.61	-74.02	-1.72	-1.87	-25.00	-52.61
536.34	-75.06	-71.46	-1.38	-2.22	-25.00	-50.06
570.29	-74.71	-71.07	-1.43	-2.21	-25.00	-49.71
600.36	-73.22	-69.03	-1.89	-2.30	-25.00	-48.22
5020.00	-50.73	-56.03	12.32	-7.02	-25.00	-25.73

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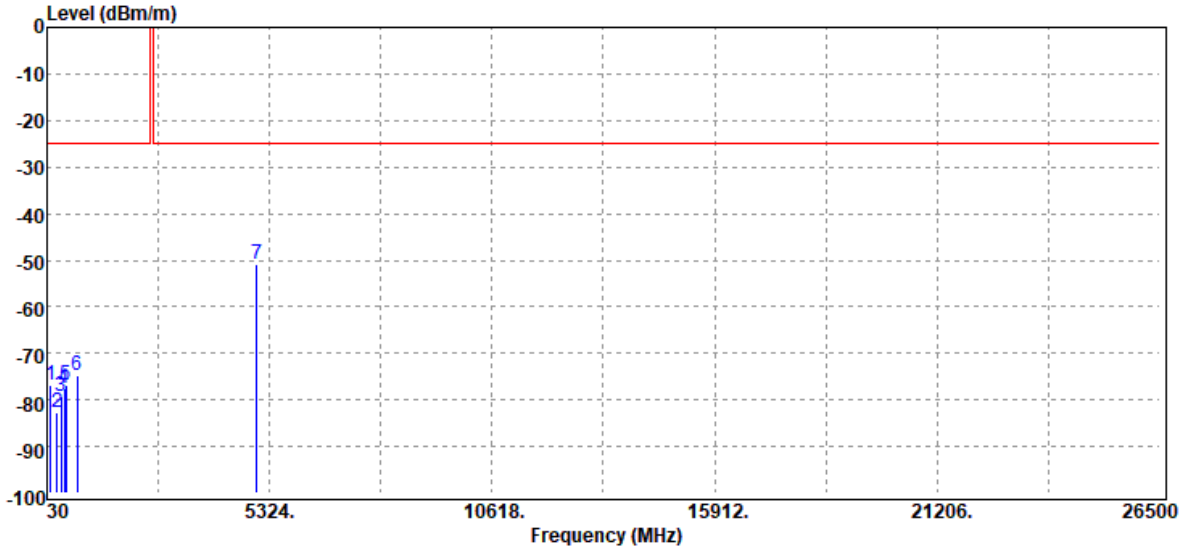
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B7	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:2510.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-76.76	-68.64	-7.07	-1.05	-25.00	-51.76
259.89	-82.85	-79.59	-1.64	-1.62	-25.00	-57.85
357.86	-79.19	-75.75	-1.52	-1.92	-25.00	-54.19
445.16	-77.57	-73.98	-1.67	-1.92	-25.00	-52.57
476.20	-76.91	-73.17	-1.49	-2.25	-25.00	-51.91
752.65	-74.64	-70.29	-1.81	-2.54	-25.00	-49.64
5020.00	-51.04	-56.34	12.32	-7.02	-25.00	-26.04

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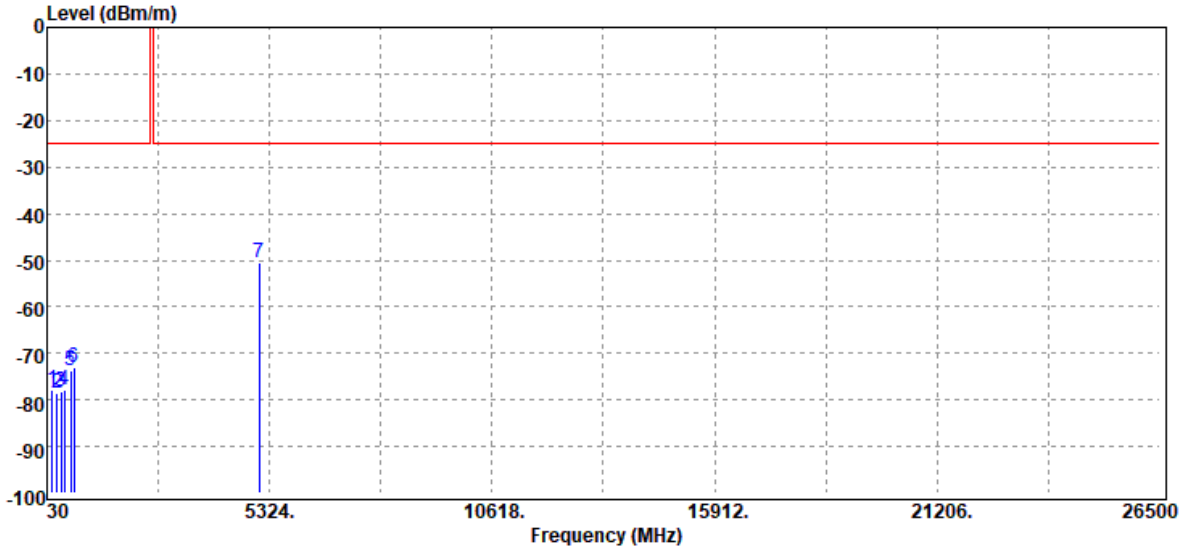
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B7	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:2535.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
148.34	-77.98	-68.97	-7.81	-1.20	-25.00	-52.98
272.50	-78.42	-74.91	-1.88	-1.63	-25.00	-53.42
361.74	-78.18	-74.72	-1.54	-1.92	-25.00	-53.18
444.19	-78.02	-74.43	-1.69	-1.90	-25.00	-53.02
594.54	-73.53	-69.68	-1.75	-2.10	-25.00	-48.53
675.05	-73.11	-69.12	-1.25	-2.74	-25.00	-48.11
5070.00	-50.39	-55.55	12.16	-7.00	-25.00	-25.39

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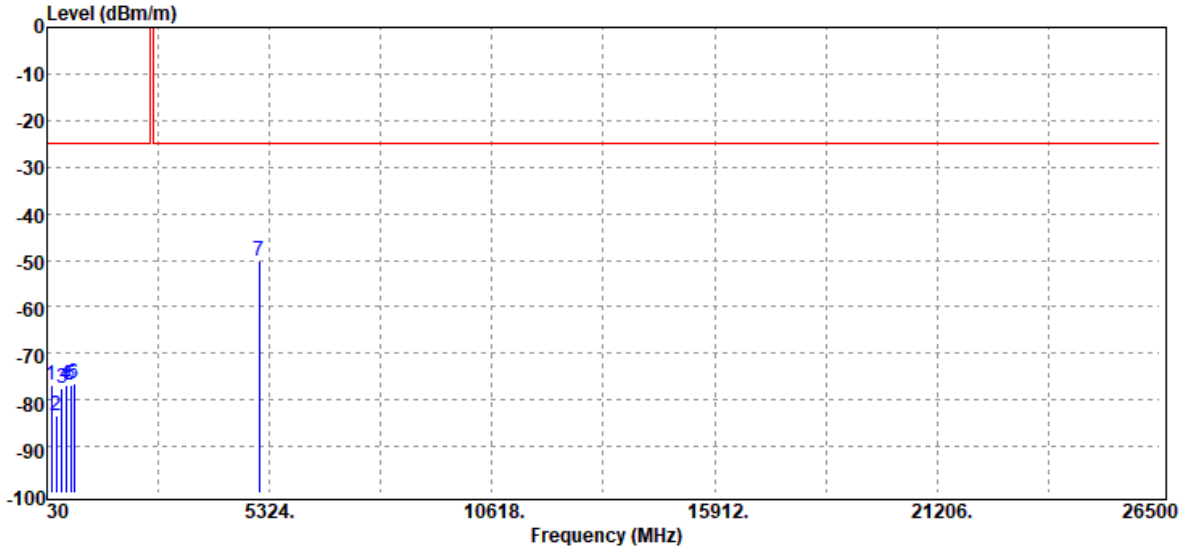
Member of SGS Group

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B7	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:2535.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.00	-76.94	-68.70	-7.16	-1.08	-25.00	-51.94
255.04	-83.43	-80.26	-1.61	-1.56	-25.00	-58.43
390.84	-77.58	-73.98	-1.62	-1.98	-25.00	-52.58
478.14	-76.88	-73.18	-1.45	-2.25	-25.00	-51.88
590.66	-76.71	-73.03	-1.72	-1.96	-25.00	-51.71
679.90	-76.45	-72.64	-1.29	-2.52	-25.00	-51.45
5070.00	-50.24	-55.40	12.16	-7.00	-25.00	-25.24

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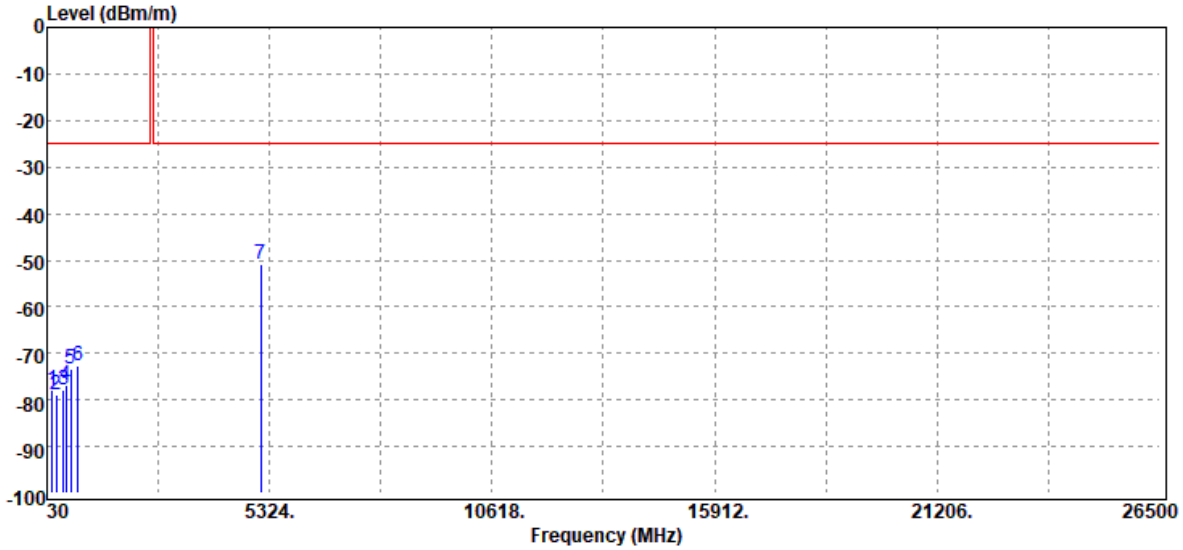
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B7	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:2560.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
153.19	-78.00	-69.28	-7.46	-1.26	-25.00	-53.00
245.34	-79.01	-75.88	-1.66	-1.47	-25.00	-54.01
418.00	-77.77	-74.16	-1.64	-1.97	-25.00	-52.77
483.96	-76.72	-72.98	-1.51	-2.23	-25.00	-51.72
597.45	-73.49	-69.48	-1.81	-2.20	-25.00	-48.49
759.44	-72.50	-68.05	-1.82	-2.63	-25.00	-47.50
5120.00	-50.95	-56.02	12.10	-7.03	-25.00	-25.95

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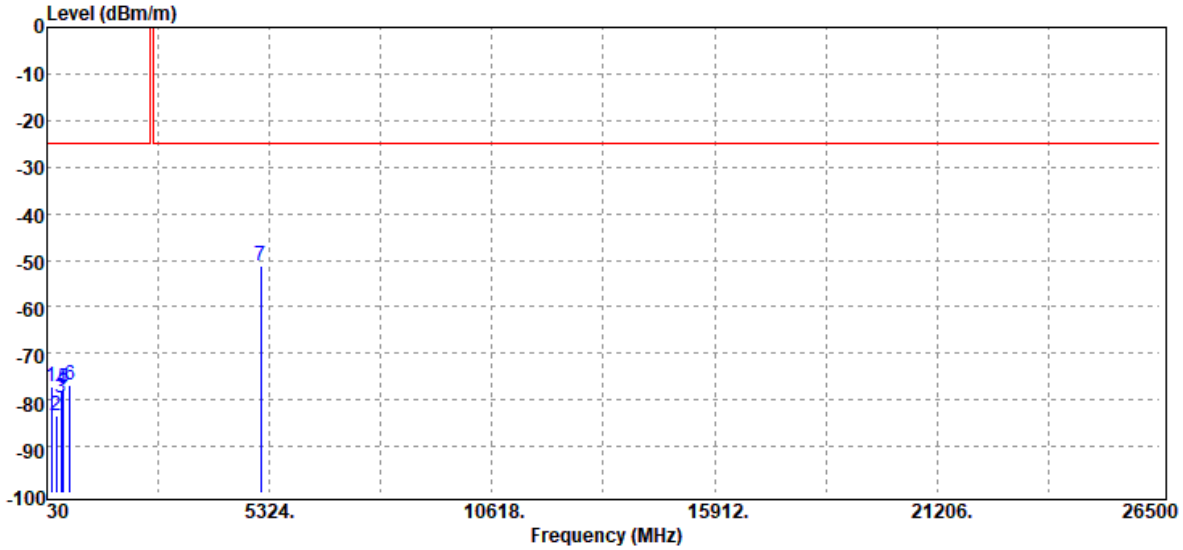
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B7	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:2560.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
127.00	-77.33	-69.09	-7.16	-1.08	-25.00	-52.33
253.10	-83.47	-80.29	-1.64	-1.54	-25.00	-58.47
356.89	-79.74	-76.29	-1.53	-1.92	-25.00	-54.74
391.81	-77.94	-74.35	-1.62	-1.97	-25.00	-52.94
415.09	-77.61	-74.08	-1.58	-1.95	-25.00	-52.61
584.84	-76.84	-73.29	-1.60	-1.95	-25.00	-51.84
5120.00	-51.13	-56.20	12.10	-7.03	-25.00	-26.13

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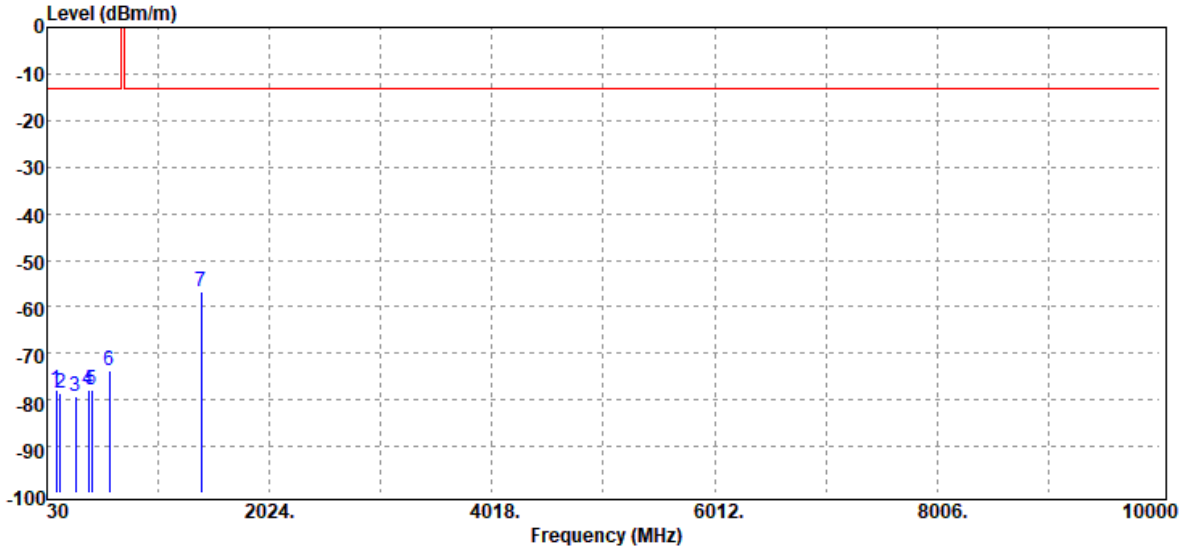
Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B12	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:704.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.39	-78.02	-69.89	-7.11	-1.02	-13.00	-65.02
149.31	-78.41	-69.44	-7.76	-1.21	-13.00	-65.41
287.05	-79.26	-75.77	-1.82	-1.67	-13.00	-66.26
400.54	-77.75	-74.23	-1.60	-1.92	-13.00	-64.75
430.61	-77.72	-74.21	-1.67	-1.84	-13.00	-64.72
592.60	-73.87	-70.10	-1.74	-2.03	-13.00	-60.87
1408.00	-56.68	-60.90	7.92	-3.70	-13.00	-43.68

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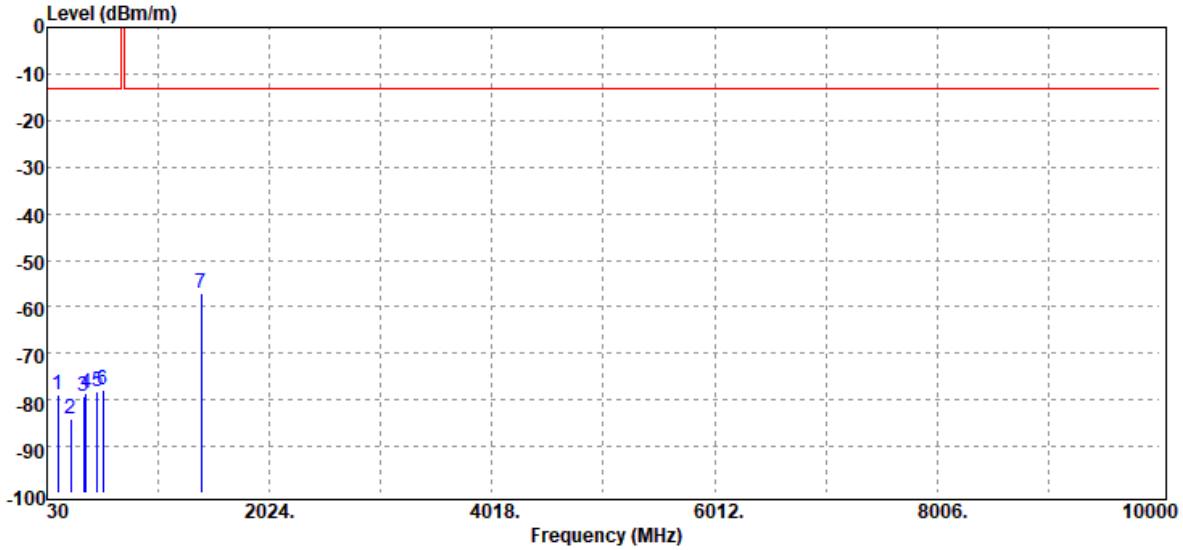
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B12	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:704.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-78.73	-70.61	-7.07	-1.05	-13.00	-65.73
243.40	-84.08	-80.93	-1.69	-1.46	-13.00	-71.08
357.86	-79.38	-75.94	-1.52	-1.92	-13.00	-66.38
382.11	-78.44	-74.87	-1.64	-1.93	-13.00	-65.44
483.96	-78.34	-74.60	-1.51	-2.23	-13.00	-65.34
531.49	-77.82	-74.09	-1.43	-2.30	-13.00	-64.82
1408.00	-57.19	-61.41	7.92	-3.70	-13.00	-44.19

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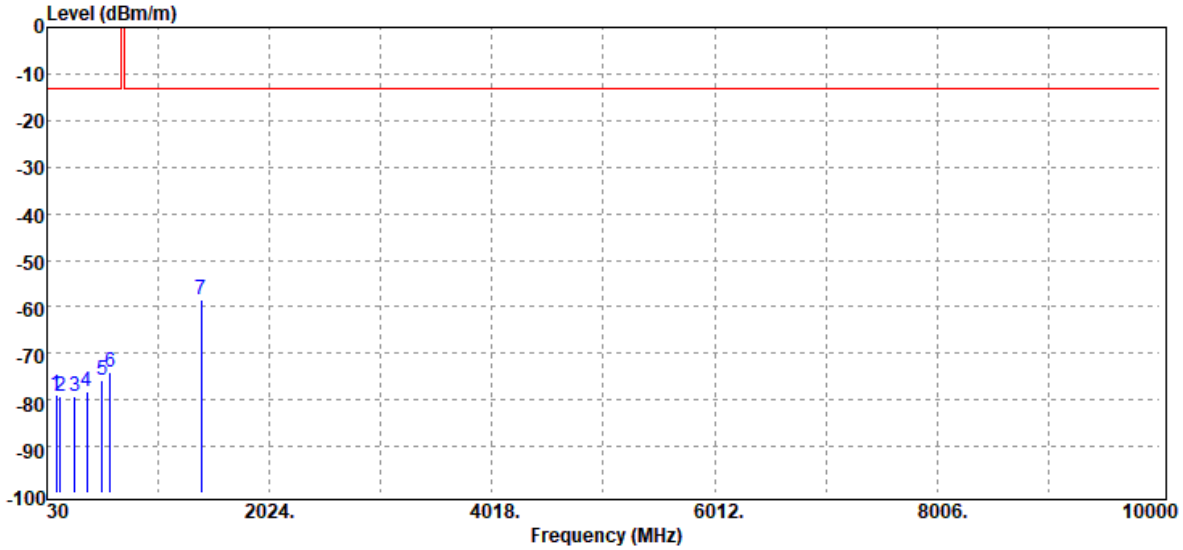
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B12	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:707.5 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-78.86	-70.77	-7.07	-1.02	-13.00	-65.86
151.25	-79.13	-70.26	-7.64	-1.23	-13.00	-66.13
282.20	-79.21	-75.69	-1.87	-1.65	-13.00	-66.21
388.90	-78.20	-74.60	-1.62	-1.98	-13.00	-65.20
527.61	-75.77	-71.93	-1.45	-2.39	-13.00	-62.77
594.54	-74.21	-70.36	-1.75	-2.10	-13.00	-61.21
1415.00	-58.63	-62.86	7.93	-3.70	-13.00	-45.63

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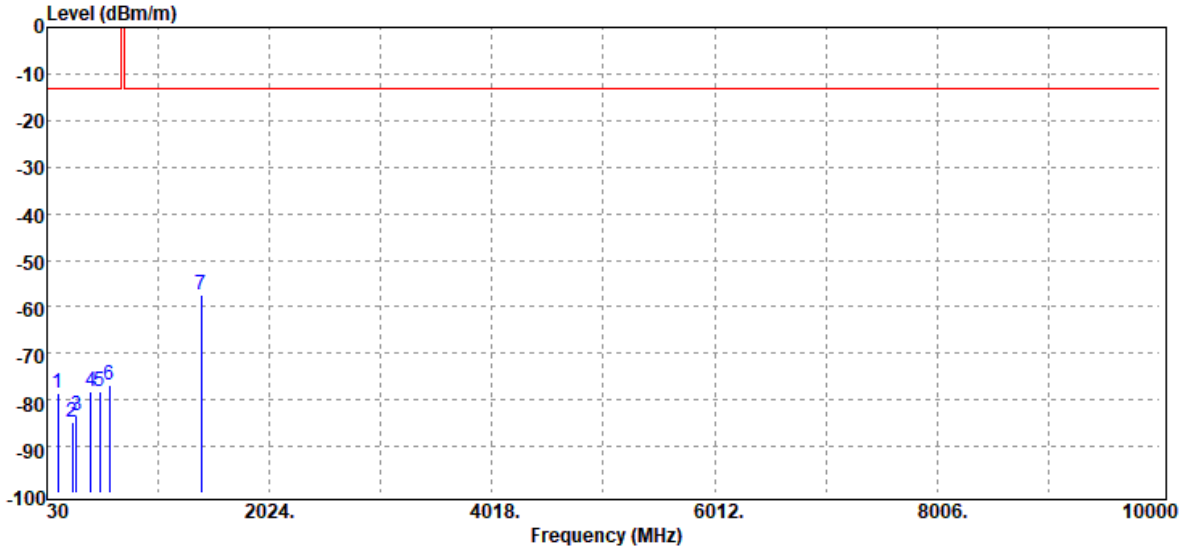
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B12	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:707.5 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-78.51	-70.39	-7.07	-1.05	-13.00	-65.51
256.01	-84.61	-81.42	-1.62	-1.57	-13.00	-71.61
289.96	-83.34	-79.86	-1.79	-1.69	-13.00	-70.34
422.85	-78.14	-74.59	-1.62	-1.93	-13.00	-65.14
505.30	-78.05	-74.11	-1.47	-2.47	-13.00	-65.05
589.69	-76.82	-73.17	-1.71	-1.94	-13.00	-63.82
1415.00	-57.59	-61.82	7.93	-3.70	-13.00	-44.59

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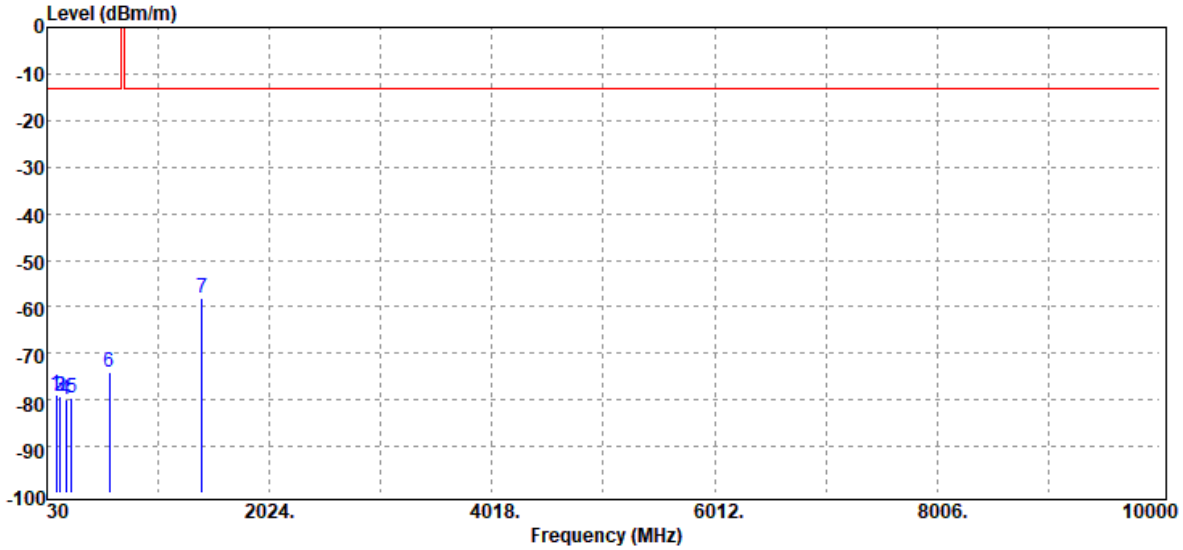
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B12	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:711.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-78.84	-70.75	-7.07	-1.02	-13.00	-65.84
149.31	-79.22	-70.25	-7.76	-1.21	-13.00	-66.22
149.31	-79.22	-70.25	-7.76	-1.21	-13.00	-66.22
196.84	-79.84	-76.00	-2.46	-1.38	-13.00	-66.84
253.10	-79.60	-76.42	-1.64	-1.54	-13.00	-66.60
592.60	-73.90	-70.13	-1.74	-2.03	-13.00	-60.90
1422.00	-58.10	-62.33	7.94	-3.71	-13.00	-45.10

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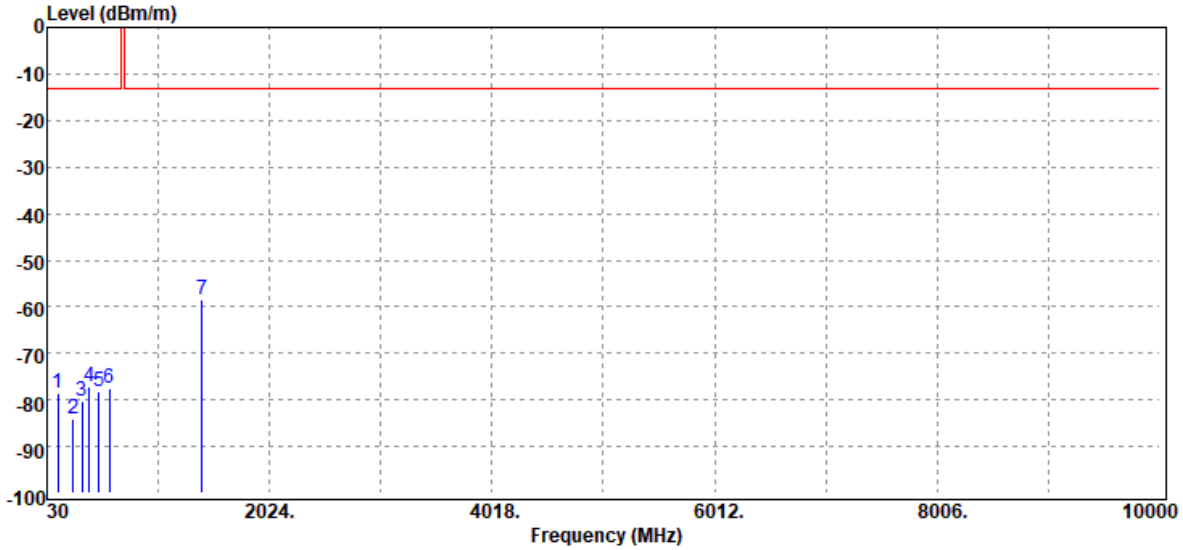
Operation Mode	:LTE B12	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:711.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-78.45	-70.33	-7.07	-1.05	-13.00	-65.45
260.86	-83.96	-80.68	-1.66	-1.62	-13.00	-70.96
347.19	-80.18	-76.76	-1.53	-1.89	-13.00	-67.18
408.30	-77.30	-73.79	-1.58	-1.93	-13.00	-64.30
497.54	-78.34	-74.53	-1.50	-2.31	-13.00	-65.34
589.69	-77.65	-74.00	-1.71	-1.94	-13.00	-64.65
1422.00	-58.59	-62.82	7.94	-3.71	-13.00	-45.59

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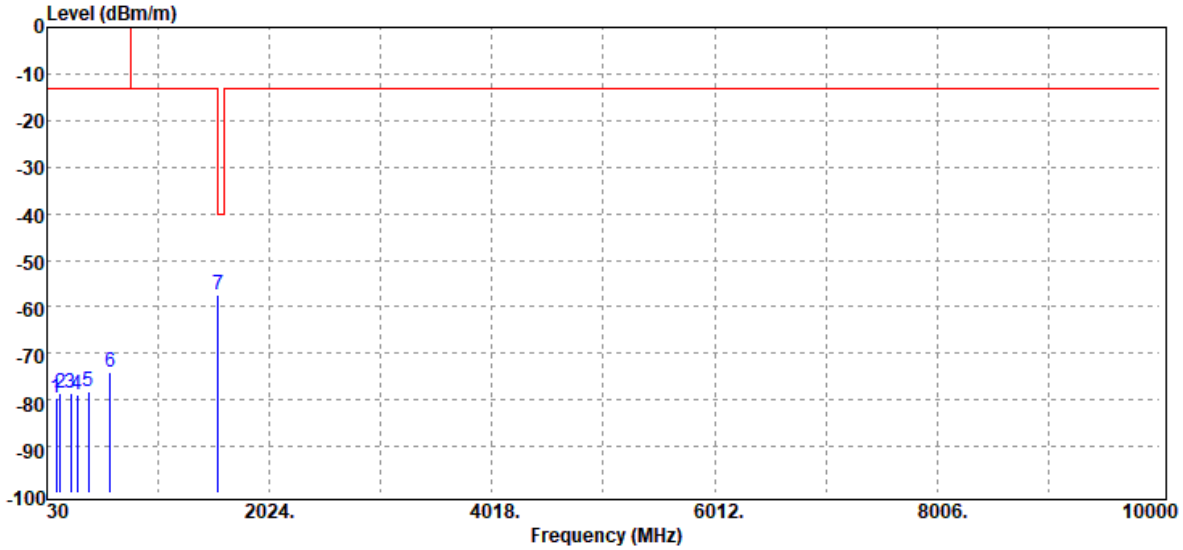
Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B13	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:782.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-79.47	-71.38	-7.07	-1.02	-13.00	-66.47
151.25	-78.67	-69.80	-7.64	-1.23	-13.00	-65.67
246.31	-78.40	-75.25	-1.67	-1.48	-13.00	-65.40
299.66	-78.79	-75.40	-1.70	-1.69	-13.00	-65.79
400.54	-78.37	-74.85	-1.60	-1.92	-13.00	-65.37
594.54	-74.02	-70.17	-1.75	-2.10	-13.00	-61.02
1564.00	-57.37	-62.60	9.13	-3.90	-40.00	-17.37

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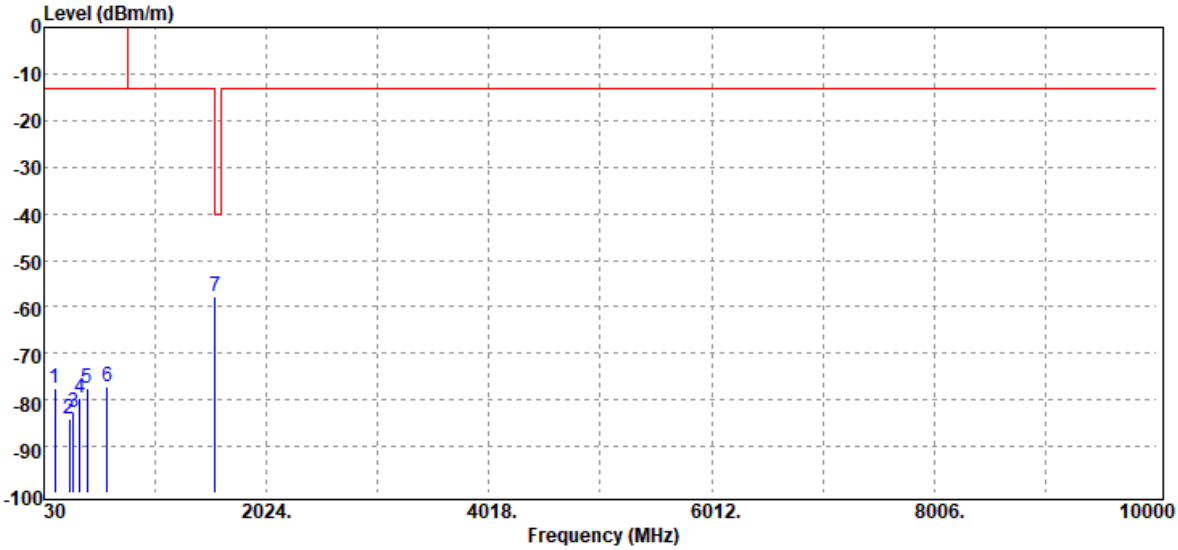
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B13	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:782.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-77.67	-69.55	-7.07	-1.05	-13.00	-64.67
256.01	-84.07	-80.88	-1.62	-1.57	-13.00	-71.07
293.84	-82.74	-79.30	-1.75	-1.69	-13.00	-69.74
350.10	-79.75	-76.39	-1.46	-1.90	-13.00	-66.75
418.00	-77.60	-73.99	-1.64	-1.97	-13.00	-64.60
594.54	-77.05	-73.20	-1.75	-2.10	-13.00	-64.05
1564.00	-57.71	-62.94	9.13	-3.90	-40.00	-17.71

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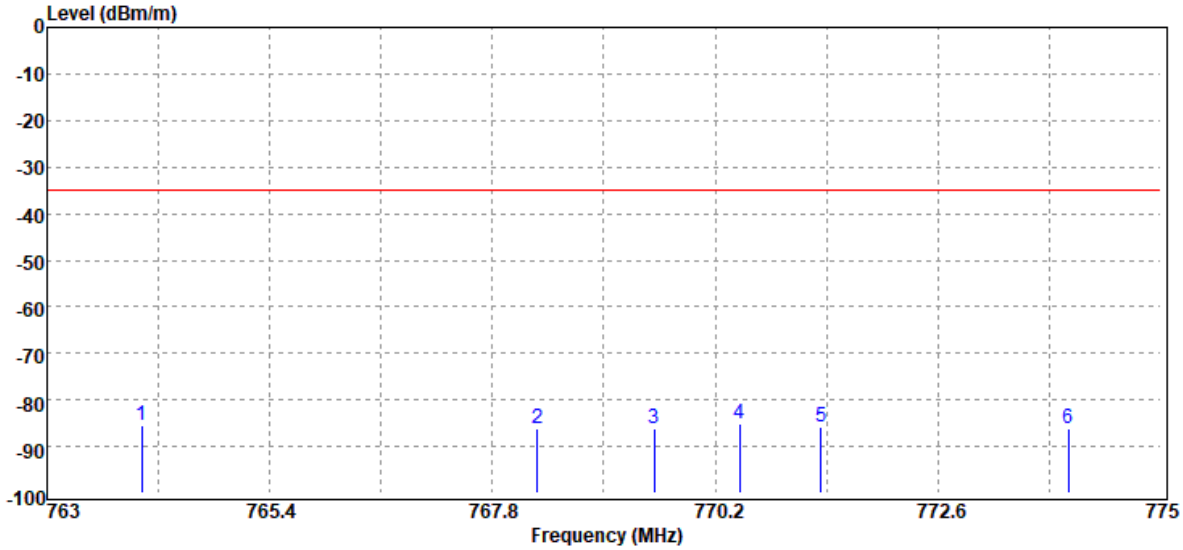
Radiated Spurious Emission Measurement Result: LTE-Band 13 (763~775MHz)

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B13	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:782.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
764.02	-85.36	-80.97	-1.78	-2.61	-35.00	-50.36
768.28	-86.31	-81.99	-1.73	-2.59	-35.00	-51.31
769.54	-86.10	-81.80	-1.72	-2.58	-35.00	-51.10
770.46	-85.22	-80.93	-1.71	-2.58	-35.00	-50.22
771.34	-85.86	-81.55	-1.72	-2.59	-35.00	-50.86
774.00	-86.18	-81.82	-1.74	-2.62	-35.00	-51.18

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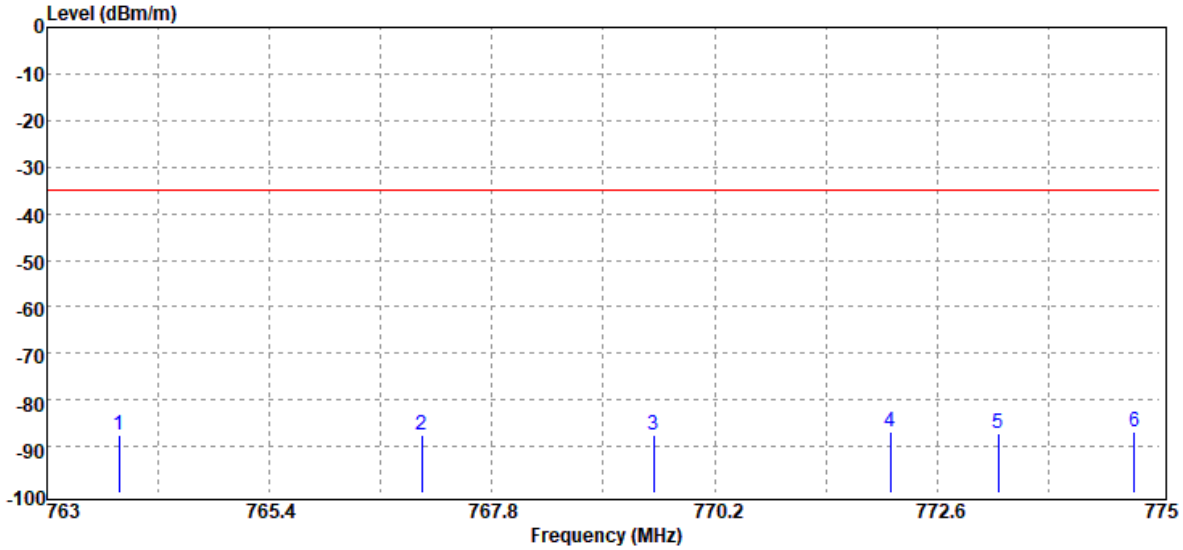
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B13	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:782.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
763.78	-87.59	-83.20	-1.78	-2.61	-35.00	-52.59
767.04	-87.71	-83.36	-1.75	-2.60	-35.00	-52.71
769.54	-87.60	-83.30	-1.72	-2.58	-35.00	-52.60
772.10	-86.97	-82.64	-1.73	-2.60	-35.00	-51.97
773.26	-87.14	-82.79	-1.74	-2.61	-35.00	-52.14
774.72	-86.72	-82.35	-1.75	-2.62	-35.00	-51.72

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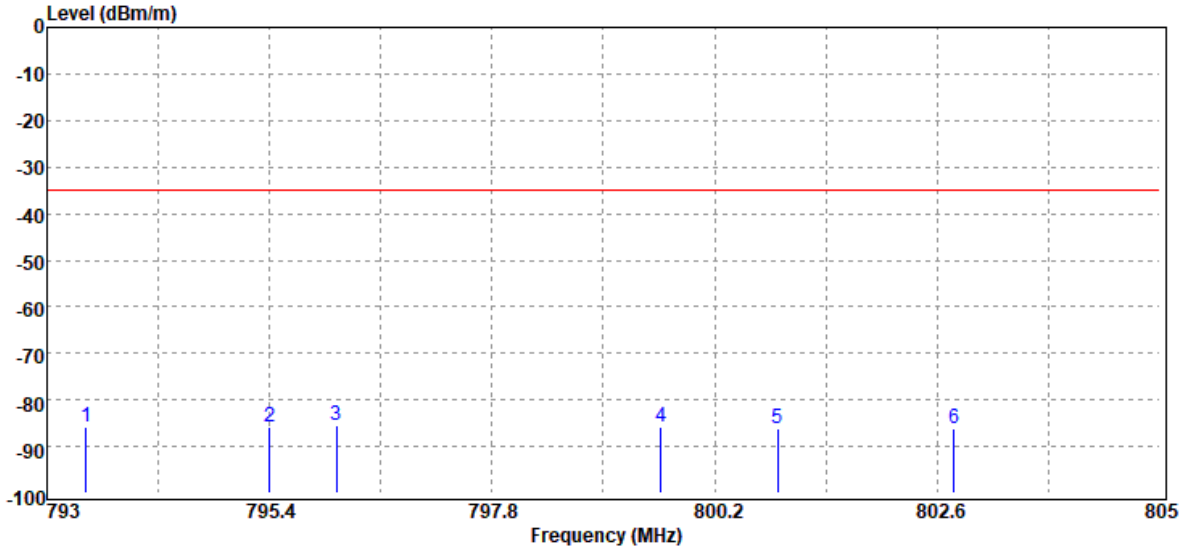
Radiated Spurious Emission Measurement Result: LTE-Band 13 (793~805MHz)

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B13	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:782.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.42	-85.89	-81.20	-1.65	-3.04	-35.00	-50.89
795.40	-85.88	-81.17	-1.63	-3.08	-35.00	-50.88
796.12	-85.44	-80.73	-1.62	-3.09	-35.00	-50.44
799.62	-85.95	-81.22	-1.58	-3.15	-35.00	-50.95
800.88	-86.25	-81.50	-1.59	-3.16	-35.00	-51.25
802.78	-86.19	-81.43	-1.60	-3.16	-35.00	-51.19

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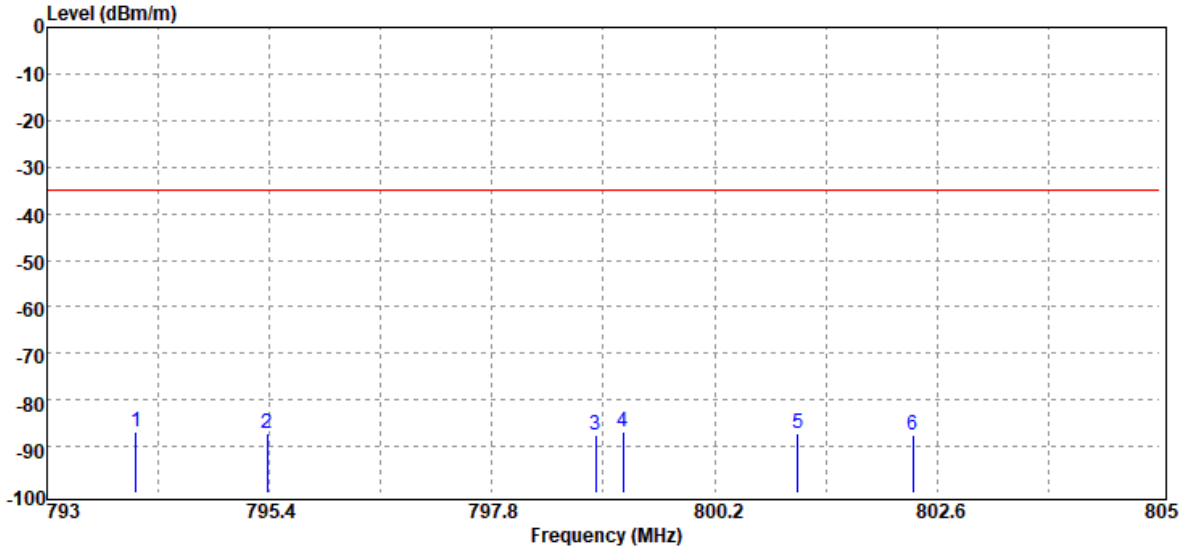
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B13	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:782.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
793.96	-86.80	-82.11	-1.64	-3.05	-35.00	-51.80
795.38	-87.08	-82.37	-1.63	-3.08	-35.00	-52.08
798.92	-87.47	-82.74	-1.59	-3.14	-35.00	-52.47
799.22	-86.81	-82.08	-1.59	-3.14	-35.00	-51.81
801.10	-87.08	-82.33	-1.59	-3.16	-35.00	-52.08
802.34	-87.57	-82.81	-1.60	-3.16	-35.00	-52.57

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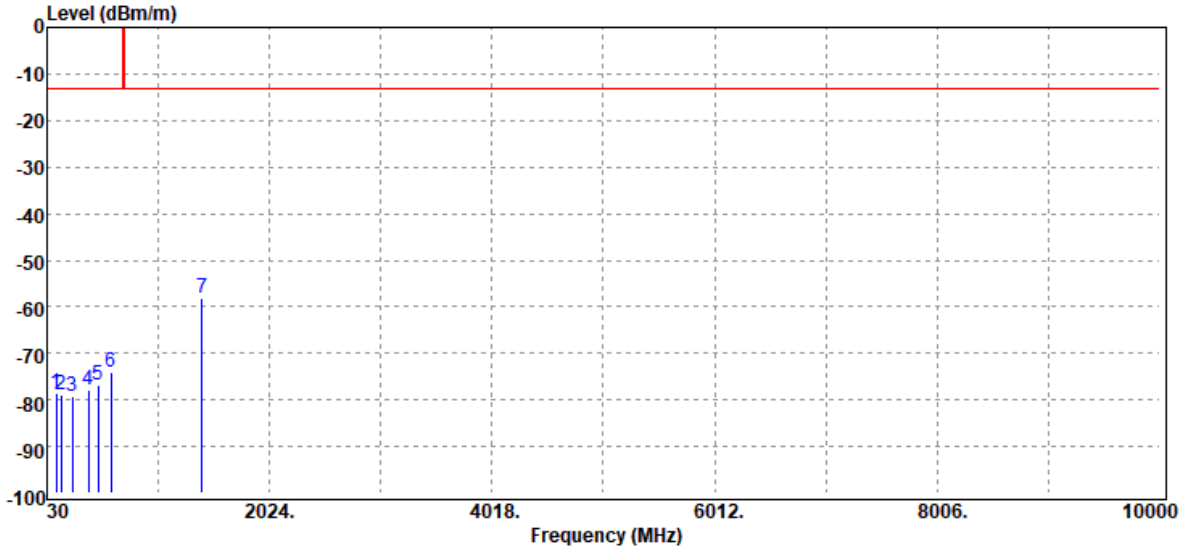
Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B17	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:709.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-78.61	-70.52	-7.07	-1.02	-13.00	-65.61
156.10	-78.99	-70.42	-7.26	-1.31	-13.00	-65.99
256.01	-79.24	-76.05	-1.62	-1.57	-13.00	-66.24
398.60	-77.99	-74.46	-1.60	-1.93	-13.00	-64.99
488.81	-76.81	-73.06	-1.54	-2.21	-13.00	-63.81
600.36	-74.00	-69.81	-1.89	-2.30	-13.00	-61.00
1418.00	-58.13	-62.36	7.94	-3.71	-13.00	-45.13

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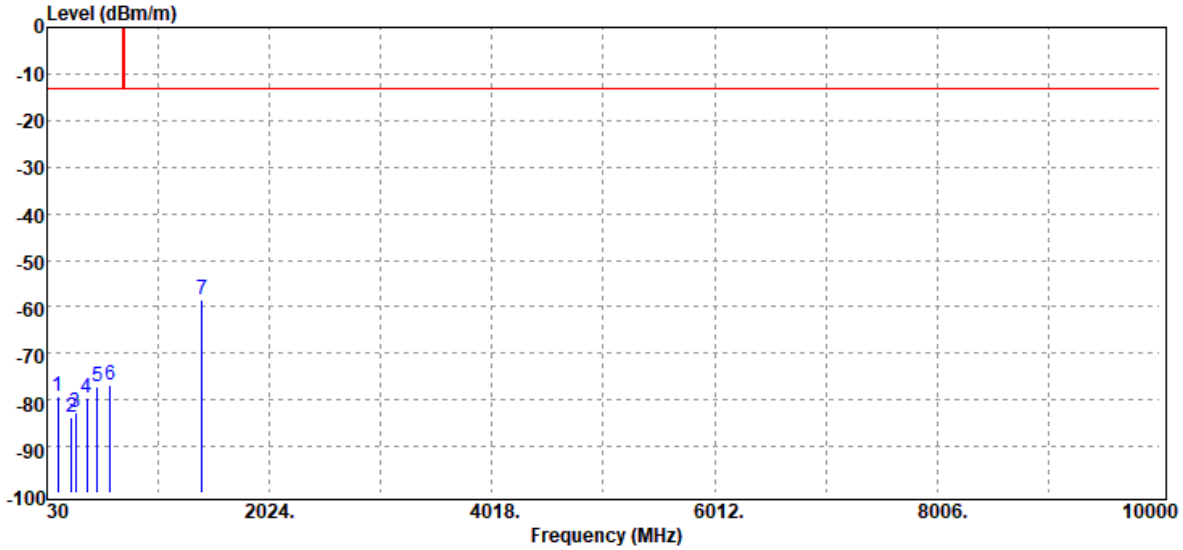
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B17	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:709.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
128.94	-79.13	-70.81	-7.23	-1.09	-13.00	-66.13
251.16	-83.71	-80.53	-1.66	-1.52	-13.00	-70.71
288.99	-82.85	-79.37	-1.80	-1.68	-13.00	-69.85
384.05	-79.66	-76.08	-1.63	-1.95	-13.00	-66.66
482.99	-77.26	-73.54	-1.49	-2.23	-13.00	-64.26
597.45	-76.80	-72.79	-1.81	-2.20	-13.00	-63.80
1418.00	-58.56	-62.79	7.94	-3.71	-13.00	-45.56

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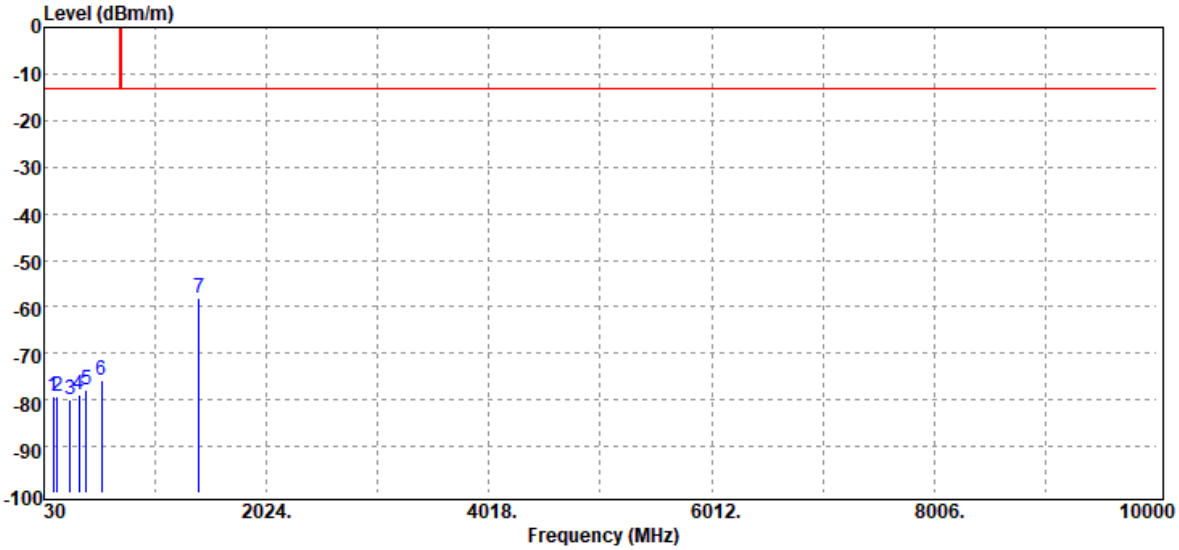
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B17	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:710.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-79.23	-71.18	-7.02	-1.03	-13.00	-66.23
149.31	-79.08	-70.11	-7.76	-1.21	-13.00	-66.08
265.71	-79.95	-76.54	-1.78	-1.63	-13.00	-66.95
340.40	-78.72	-75.23	-1.61	-1.88	-13.00	-65.72
410.24	-77.81	-74.30	-1.58	-1.93	-13.00	-64.81
547.01	-75.81	-72.19	-1.42	-2.20	-13.00	-62.81
1420.00	-58.05	-62.28	7.94	-3.71	-13.00	-45.05

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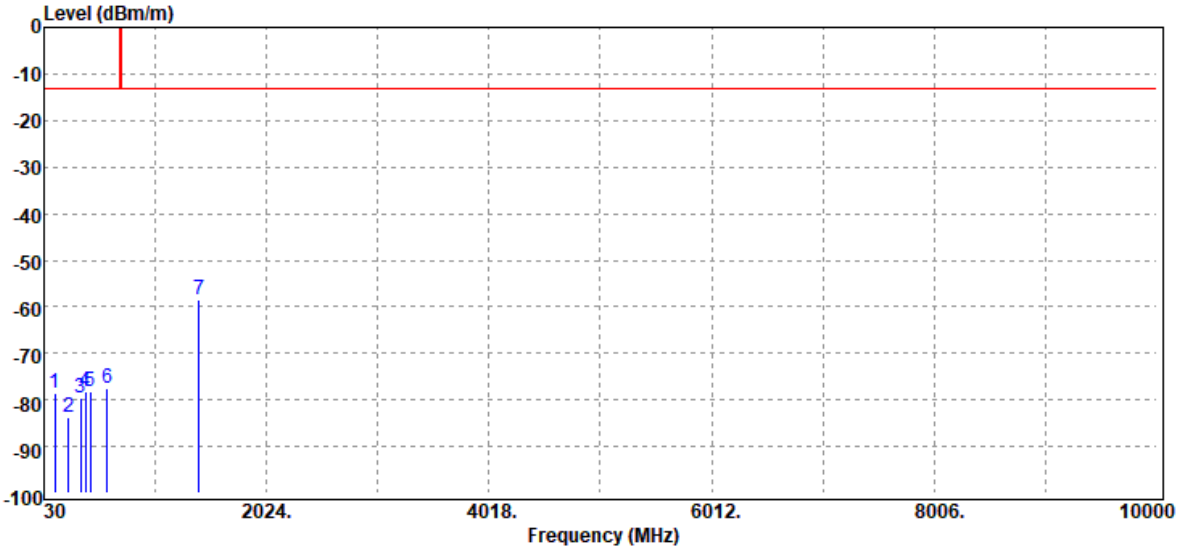
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B17	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:710.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
124.09	-78.44	-70.32	-7.07	-1.05	-13.00	-65.44
253.10	-83.56	-80.38	-1.64	-1.54	-13.00	-70.56
361.74	-79.44	-75.98	-1.54	-1.92	-13.00	-66.44
398.60	-78.09	-74.56	-1.60	-1.93	-13.00	-65.09
442.25	-78.15	-74.56	-1.72	-1.87	-13.00	-65.15
595.51	-77.38	-73.49	-1.76	-2.13	-13.00	-64.38
1420.00	-58.48	-62.71	7.94	-3.71	-13.00	-45.48

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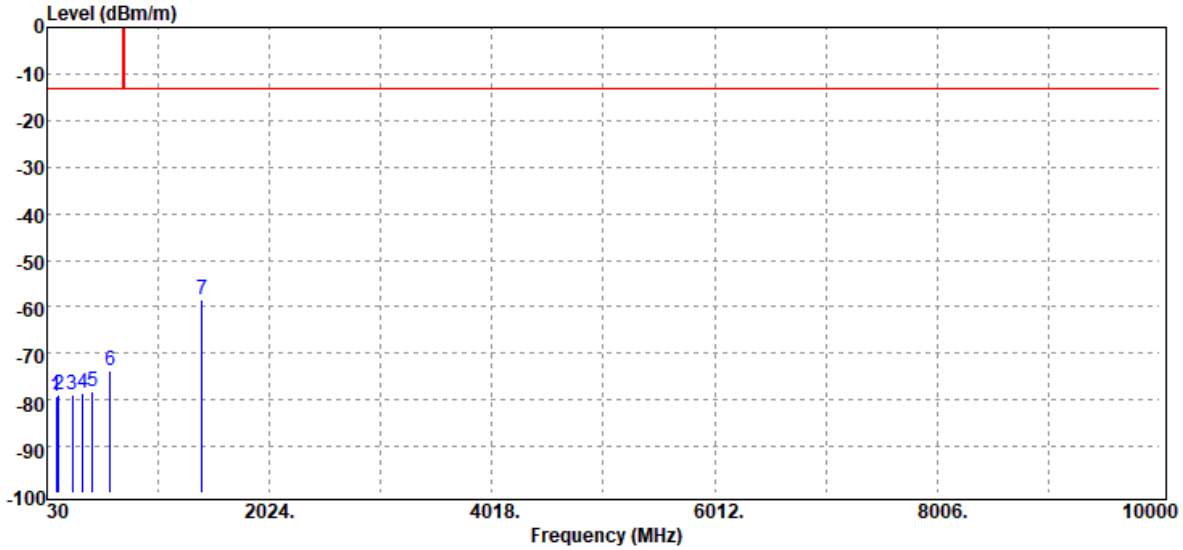
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B17	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:711.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.45	-79.10	-71.01	-7.07	-1.02	-13.00	-66.10
136.70	-78.94	-70.11	-7.70	-1.13	-13.00	-65.94
255.04	-79.00	-75.83	-1.61	-1.56	-13.00	-66.00
353.01	-78.48	-75.06	-1.51	-1.91	-13.00	-65.48
437.40	-78.03	-74.48	-1.72	-1.83	-13.00	-65.03
595.51	-73.72	-69.83	-1.76	-2.13	-13.00	-60.72
1422.00	-58.55	-62.78	7.94	-3.71	-13.00	-45.55

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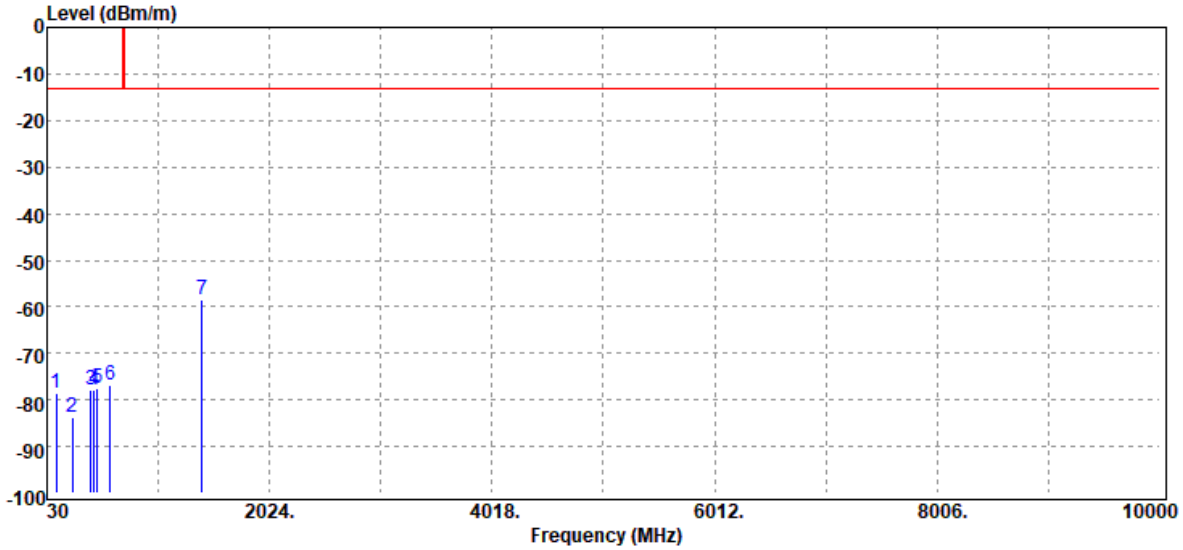
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B17	Temp./Humi.	:22.3/70
Test Mode	:Tx CH High	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:711.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.39	-78.67	-70.54	-7.11	-1.02	-13.00	-65.67
259.89	-83.76	-80.50	-1.64	-1.62	-13.00	-70.76
420.91	-78.01	-74.39	-1.66	-1.96	-13.00	-65.01
450.01	-77.69	-73.99	-1.68	-2.02	-13.00	-64.69
483.96	-77.55	-73.81	-1.51	-2.23	-13.00	-64.55
599.39	-76.78	-72.65	-1.86	-2.27	-13.00	-63.78
1422.00	-58.40	-62.63	7.94	-3.71	-13.00	-45.40

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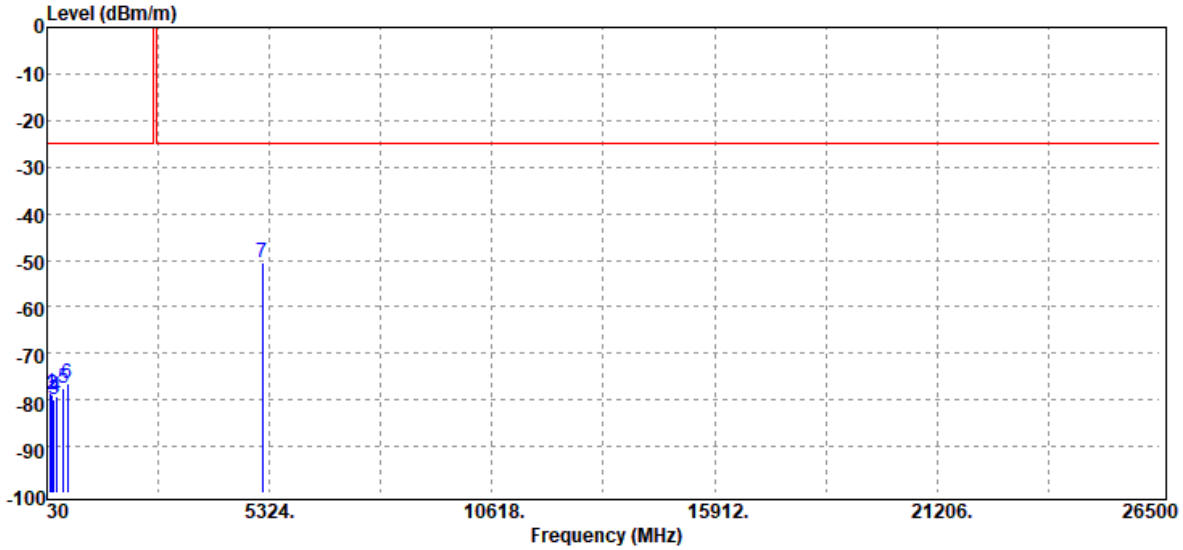
Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B38	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:2580.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.39	-78.66	-70.53	-7.11	-1.02	-25.00	-53.66
149.31	-78.91	-69.94	-7.76	-1.21	-25.00	-53.91
191.99	-79.96	-75.84	-2.77	-1.35	-25.00	-54.96
256.01	-79.16	-75.97	-1.62	-1.57	-25.00	-54.16
415.09	-77.46	-73.93	-1.58	-1.95	-25.00	-52.46
519.85	-76.54	-72.44	-1.52	-2.58	-25.00	-51.54
5160.00	-50.45	-55.48	12.14	-7.11	-25.00	-25.45

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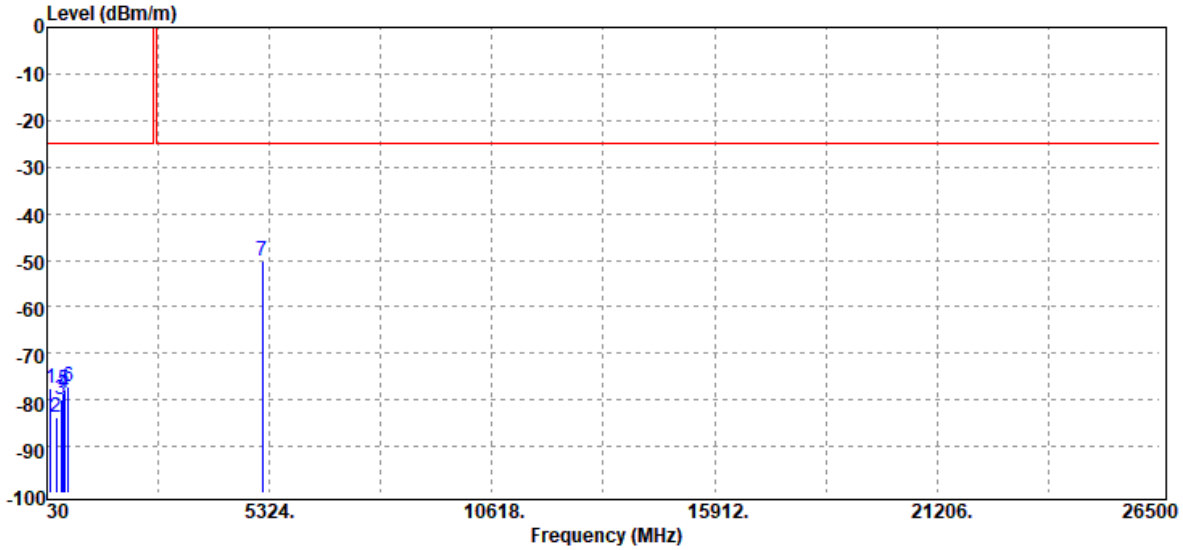
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B38	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Low	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:2580.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
125.06	-77.62	-69.46	-7.10	-1.06	-25.00	-52.62
251.16	-83.61	-80.43	-1.66	-1.52	-25.00	-58.61
362.71	-79.90	-76.43	-1.55	-1.92	-25.00	-54.90
413.15	-78.41	-74.88	-1.58	-1.95	-25.00	-53.41
442.25	-77.90	-74.31	-1.72	-1.87	-25.00	-52.90
536.34	-77.24	-73.64	-1.38	-2.22	-25.00	-52.24
5160.00	-50.22	-55.25	12.14	-7.11	-25.00	-25.22

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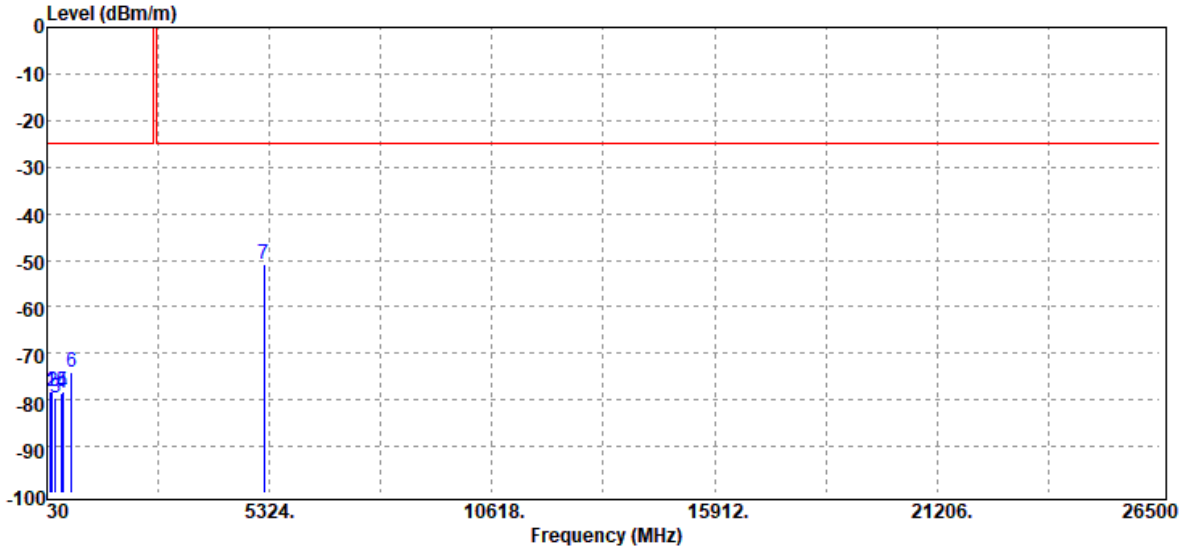
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B38	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:2595.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.39	-78.07	-69.94	-7.11	-1.02	-25.00	-53.07
148.34	-78.34	-69.33	-7.81	-1.20	-25.00	-53.34
233.70	-79.70	-76.60	-1.62	-1.48	-25.00	-54.70
385.99	-78.67	-75.08	-1.63	-1.96	-25.00	-53.67
406.36	-78.36	-74.84	-1.59	-1.93	-25.00	-53.36
607.15	-74.04	-69.59	-1.97	-2.48	-25.00	-49.04
5190.00	-50.89	-55.98	12.26	-7.17	-25.00	-25.89

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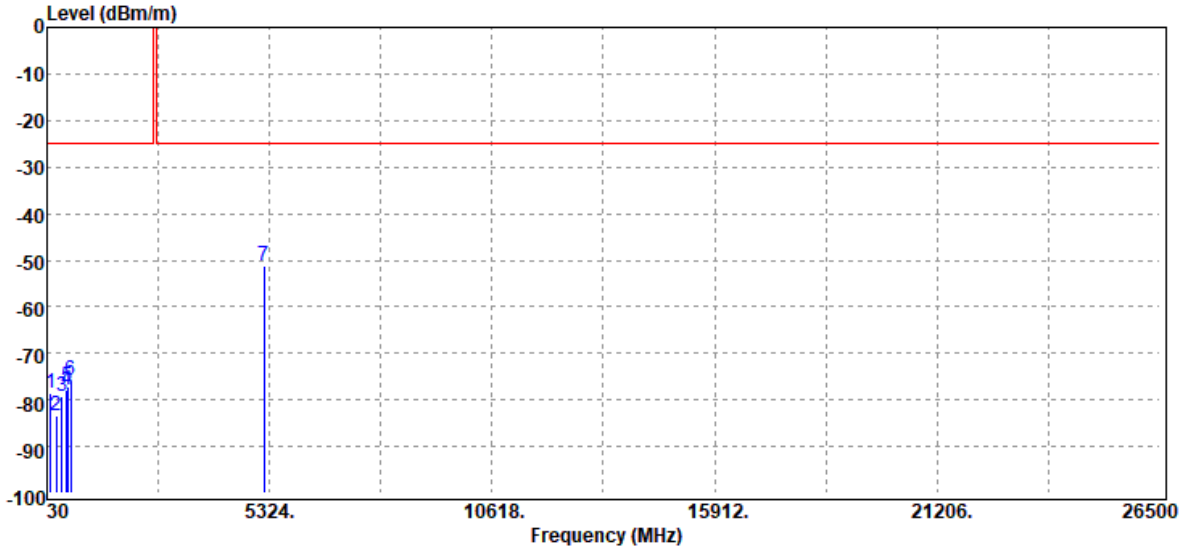
Report Number	:ER-2019-A0103	Test Date	:2019-11-04
Operation Mode	:LTE B38	Temp./Humi.	:22.3/70
Test Mode	:Tx CH Mid	Antenna Pol.	:HORIZONTAL
EUT Pol	:H Plane	Engineer.	: Nick
Test Channel	:2595.0 MHz		



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
115.36	-78.64	-70.48	-7.14	-1.02	-25.00	-53.64
253.10	-83.36	-80.18	-1.64	-1.54	-25.00	-58.36
381.14	-79.28	-75.71	-1.64	-1.93	-25.00	-54.28
495.60	-77.80	-73.98	-1.54	-2.28	-25.00	-52.80
524.70	-77.21	-73.31	-1.44	-2.46	-25.00	-52.21
604.24	-75.73	-71.35	-1.98	-2.40	-25.00	-50.73
5190.00	-51.16	-56.25	12.26	-7.17	-25.00	-26.16

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