

Band Edge_Band12 3MHz_QPSK 1 0_LowCH23025-700.5



Band Edge_Band12 3MHz_QPSK 15 0_HighCH23165-714.5



Band Edge_Band12 3MHz_QPSK 1 14_HighCH23165-714.5



Band Edge_Band12 5MHz_QPSK 1 0_LowCH23035-701.5



Band Edge_Band12 3MHz_QPSK 15 0_LowCH23025-700.5



Band Edge_Band12 5MHz_QPSK 1 24_HighCH23155-713.5



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Band Edge_Band12 5MHz_QPSK 25 0_LowCH23035-701.5



Band Edge_Band12 10MHz_QPSK 1 49_HighCH23130-711



Band Edge_Band12 5MHz_QPSK 25 0_HighCH23155-713.5



Band Edge_Band12 10MHz_QPSK 50 0_LowCH23060-704



Band Edge_Band12 10MHz_QPSK 1 0_LowCH23060-704



Band Edge_Band12 10MHz_QPSK 50 0_HighCH23130-711



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Band Edge_Band17 5MHz_QPSK 1 0_LowCH23755-706.5



Band Edge_Band17 5MHz_QPSK 25 0_HighCH23825-713.5



Band Edge_Band17 5MHz_QPSK 1 24_HighCH23825-713.5



Band Edge_Band17 10MHz_QPSK 1 0_LowCH23780-709



Band Edge_Band17 5MHz_QPSK 25 0_LowCH23755-706.5



Band Edge_Band17 10MHz_QPSK 1 49_HighCH23800-711



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Band Edge_Band17 10MHz_QPSK 50 0_HighCH23800-711

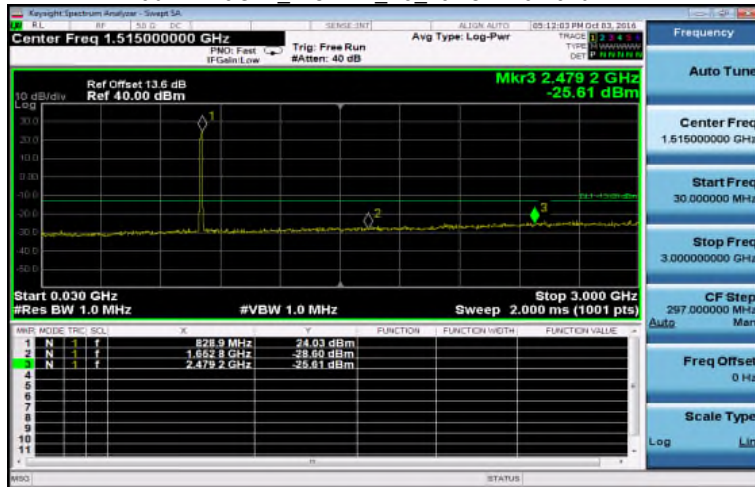


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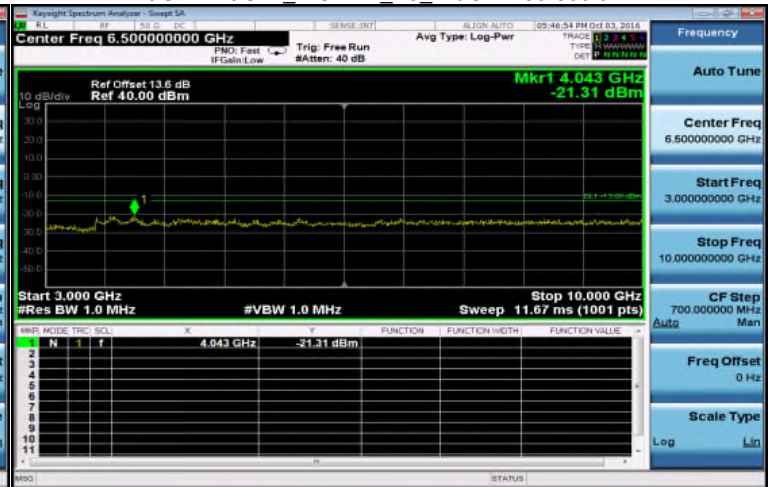
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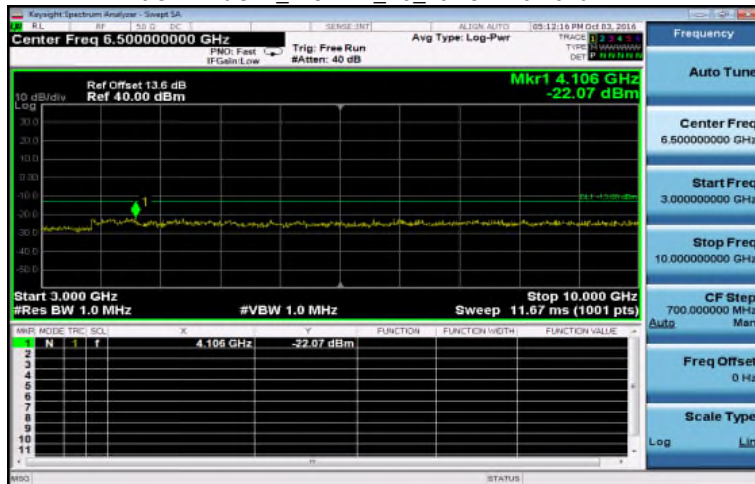
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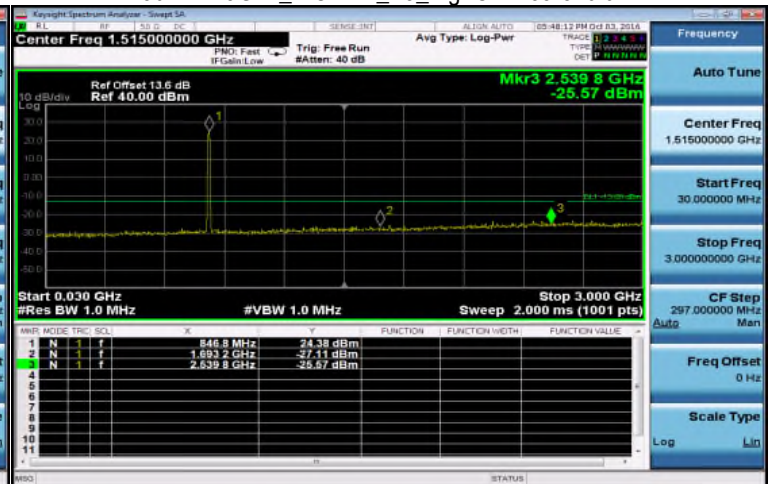
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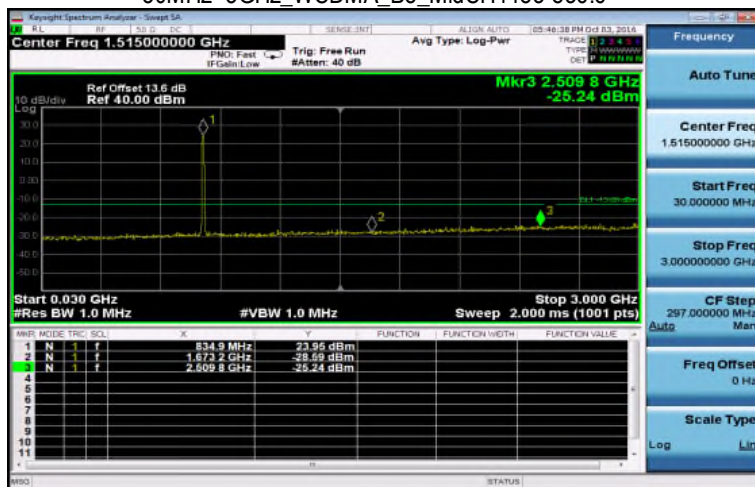
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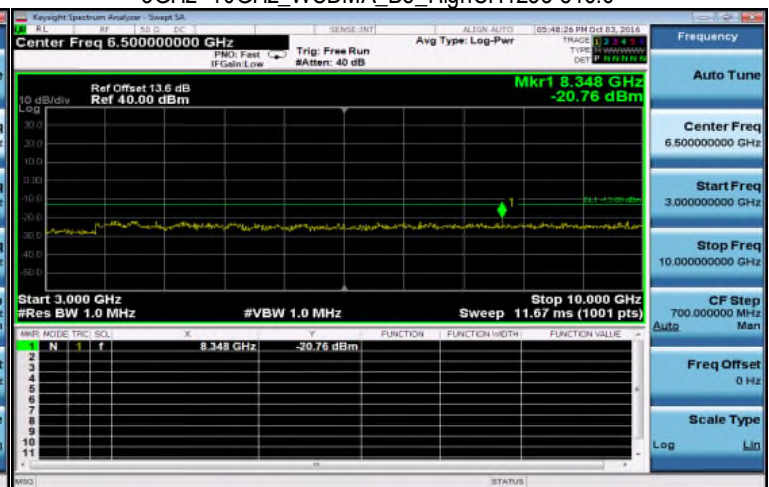
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30MHz~3GHz_WCDMA_B5_MidCH4183-836.6



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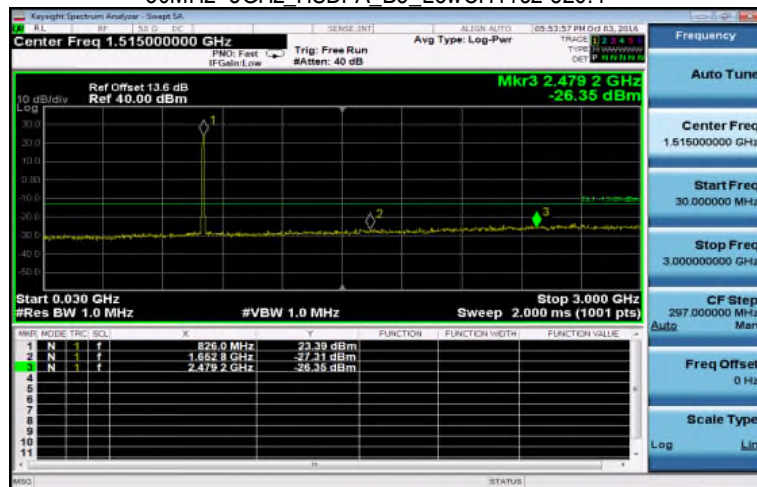


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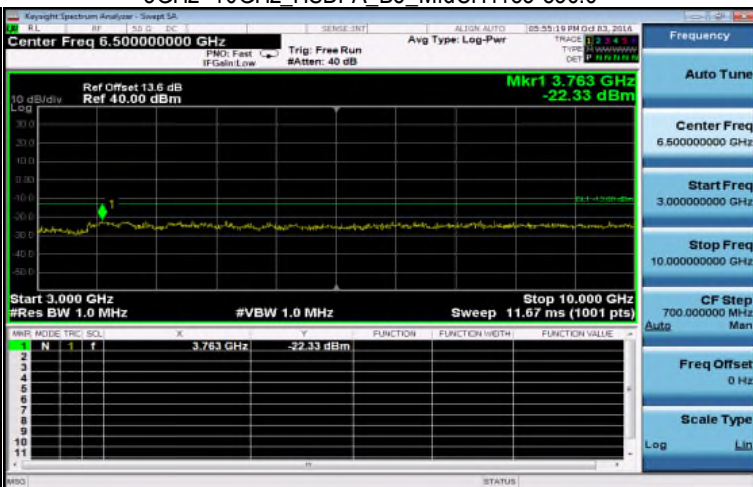
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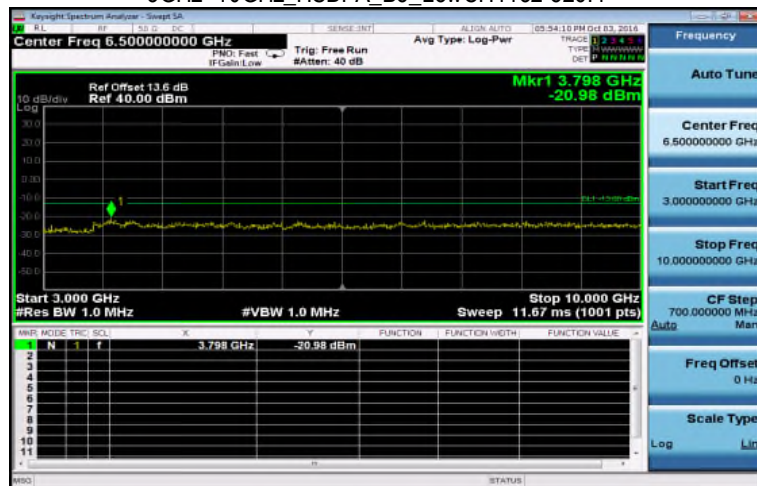
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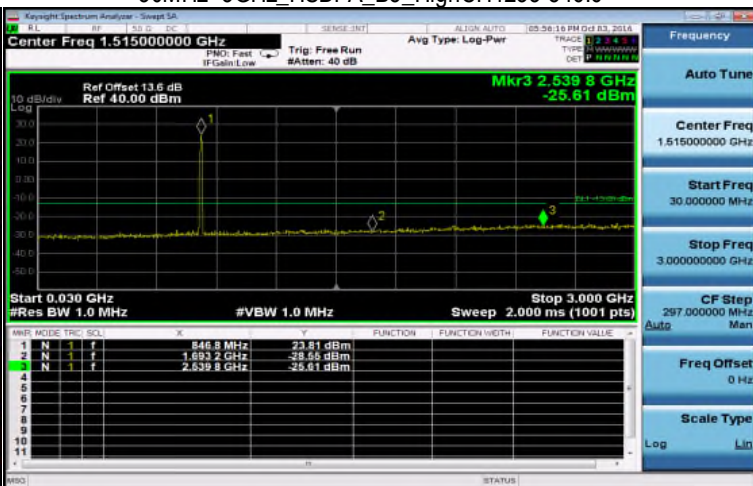
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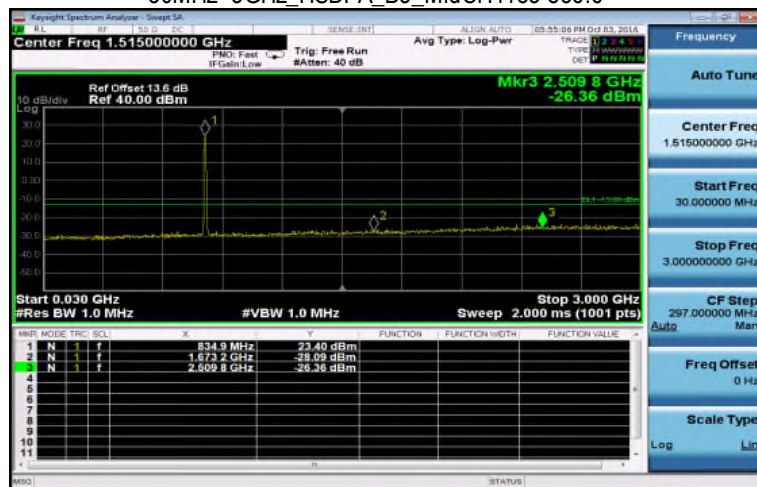
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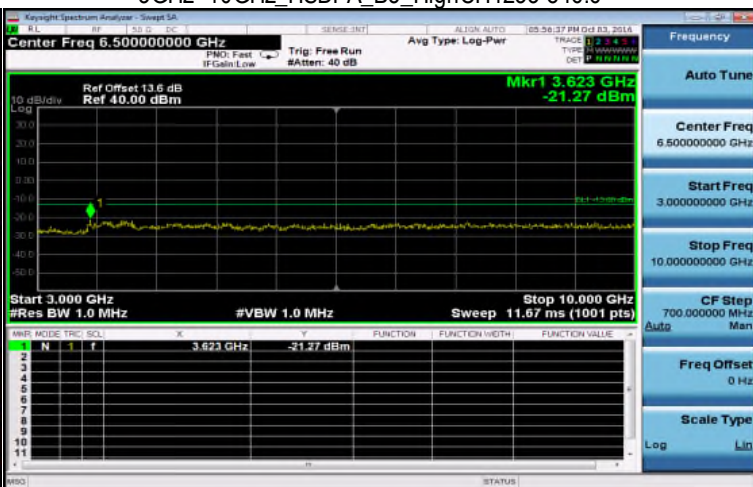
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30MHz~3GHz_HSDPA_B5_MidCH4183-836.6



3GHz~10GHz_HSDPA_B5_HighCH4233-846.6



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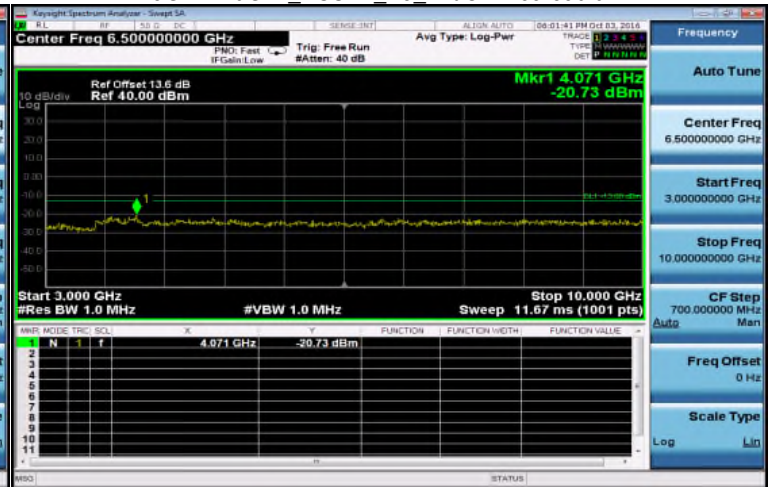
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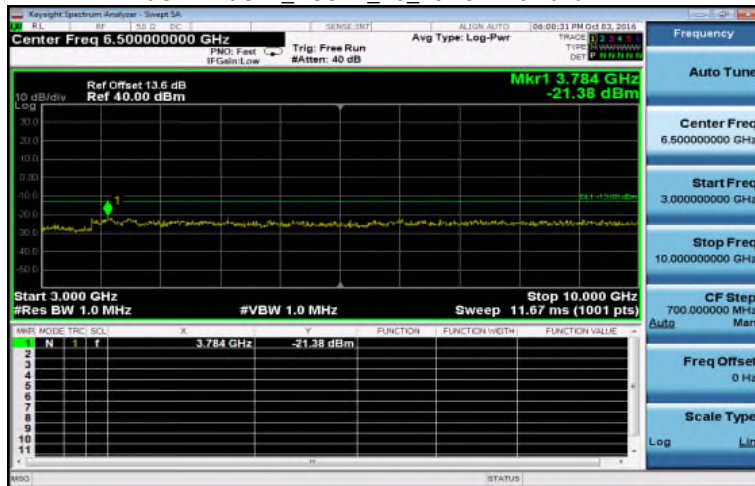
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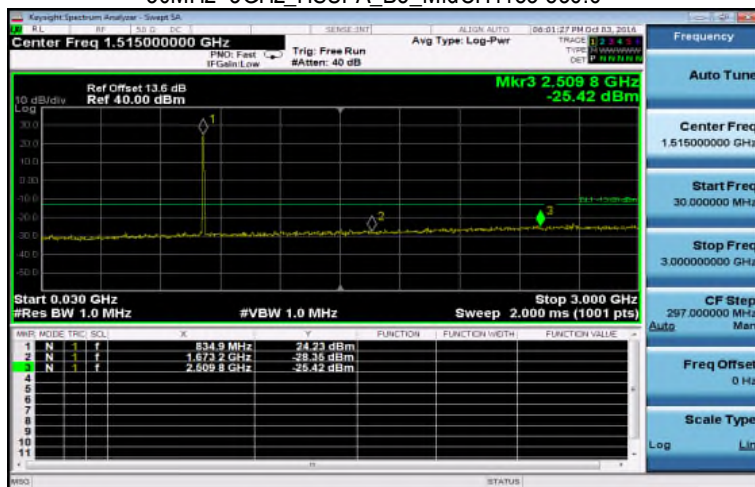
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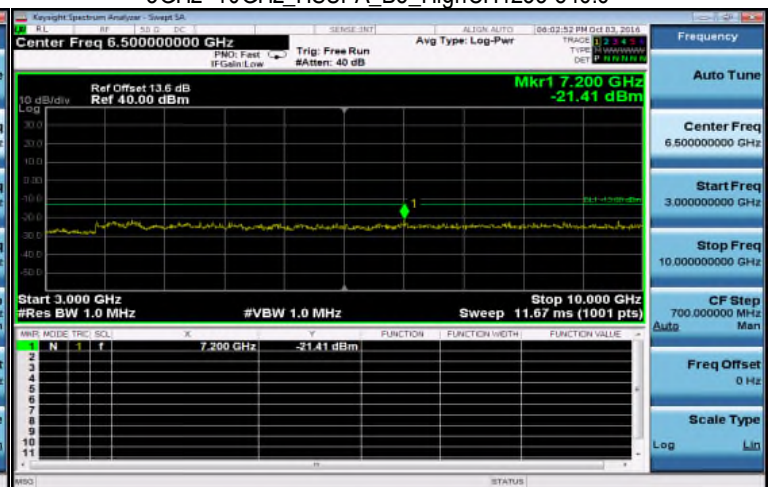
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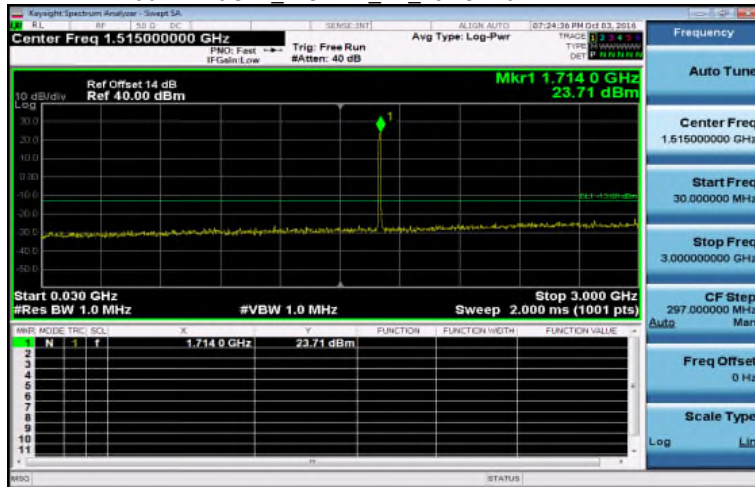


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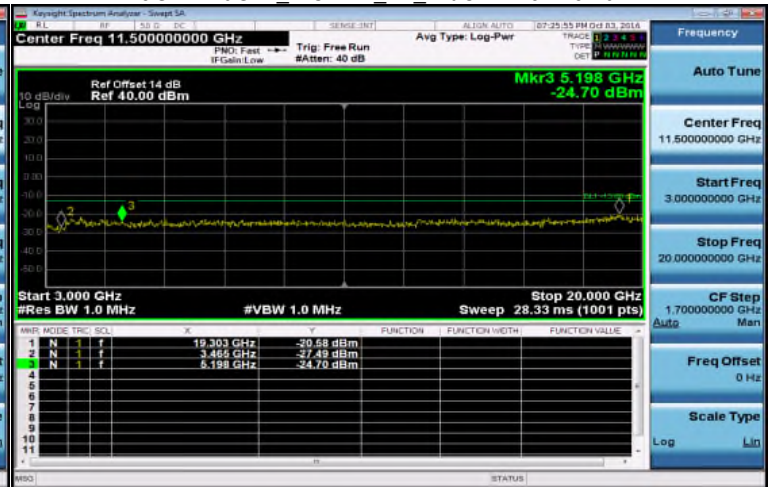
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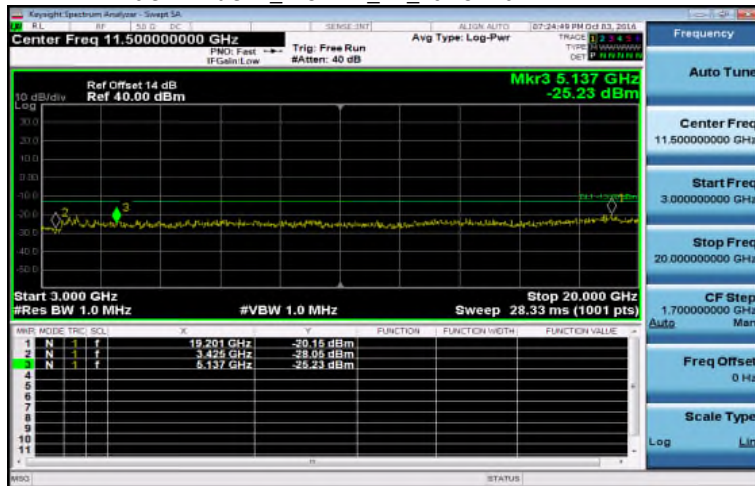
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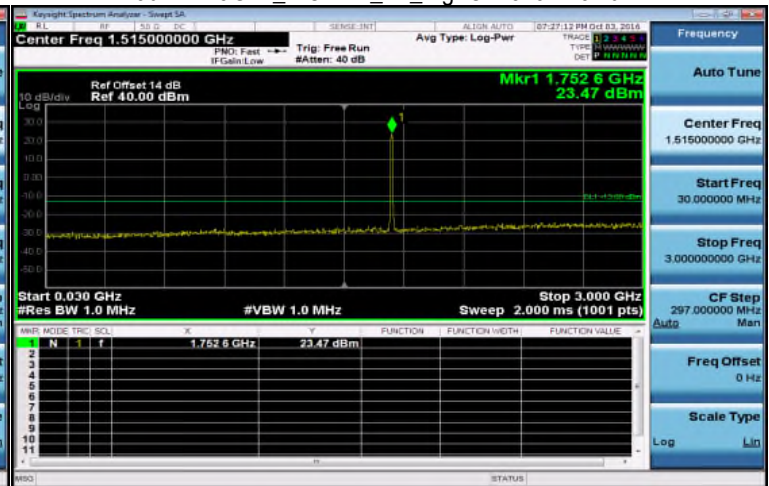
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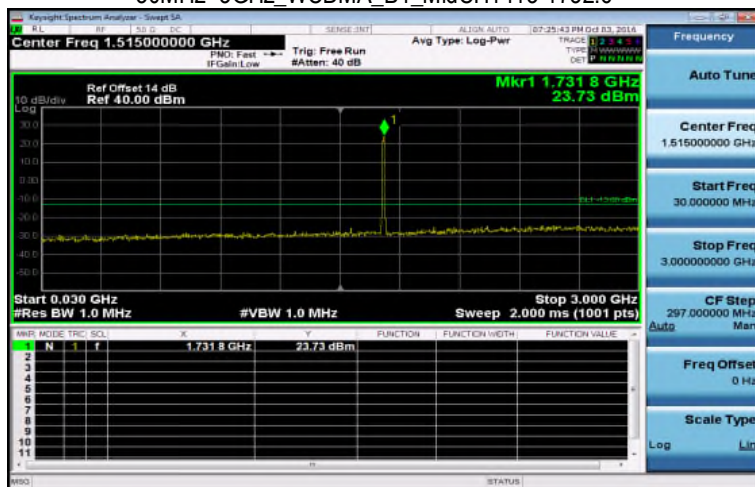
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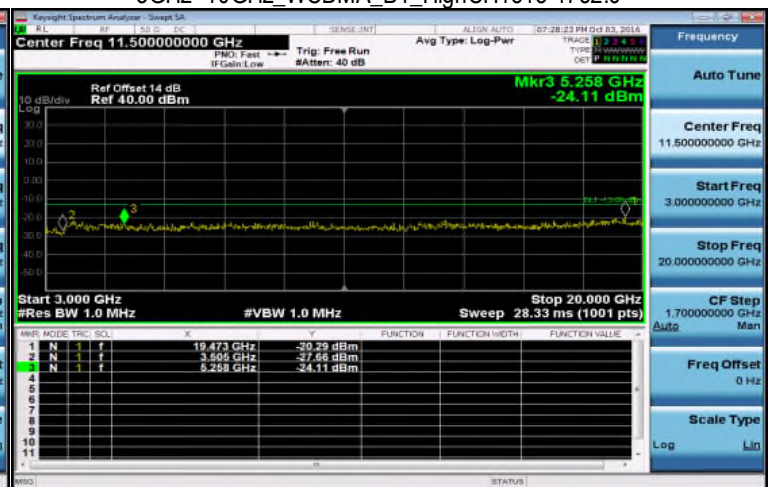
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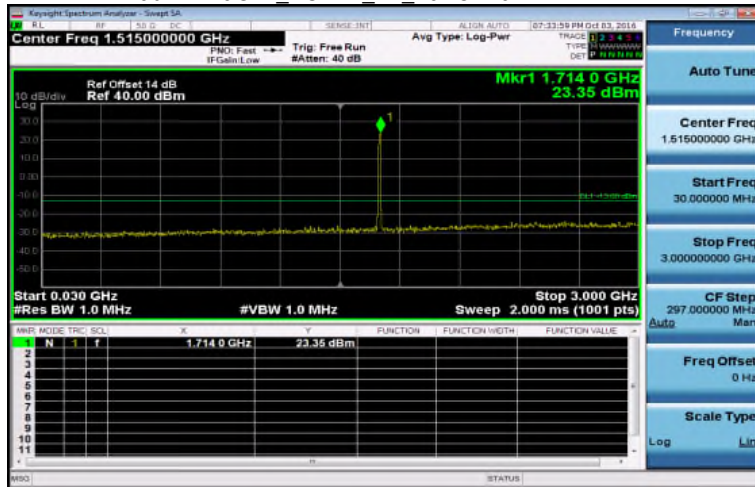


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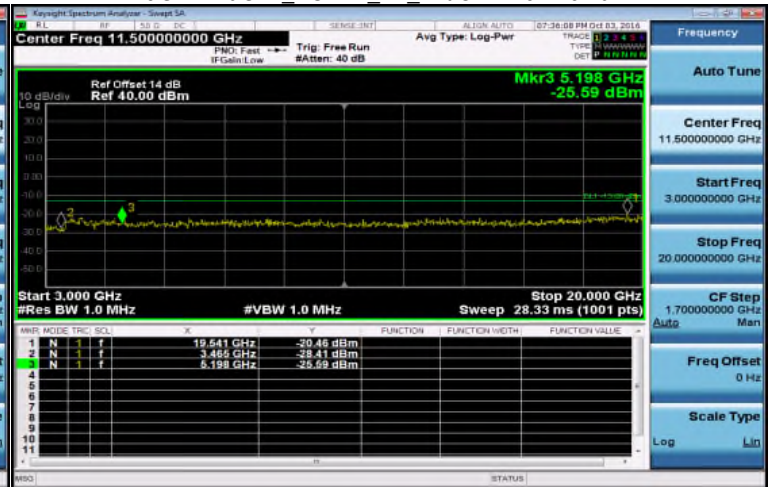
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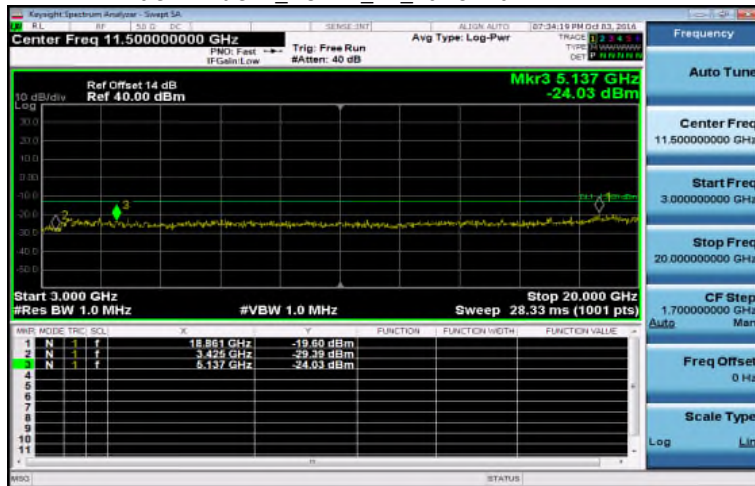
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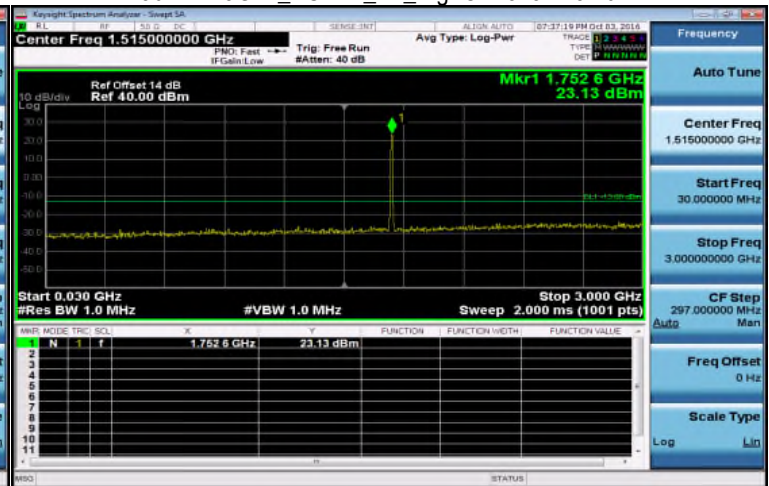
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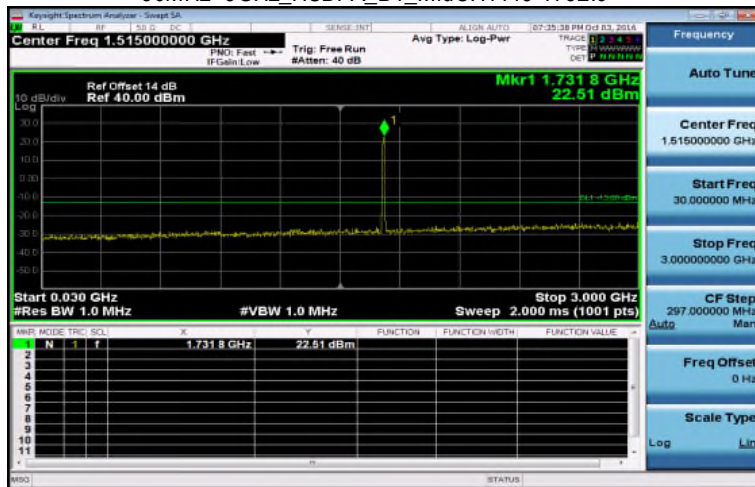
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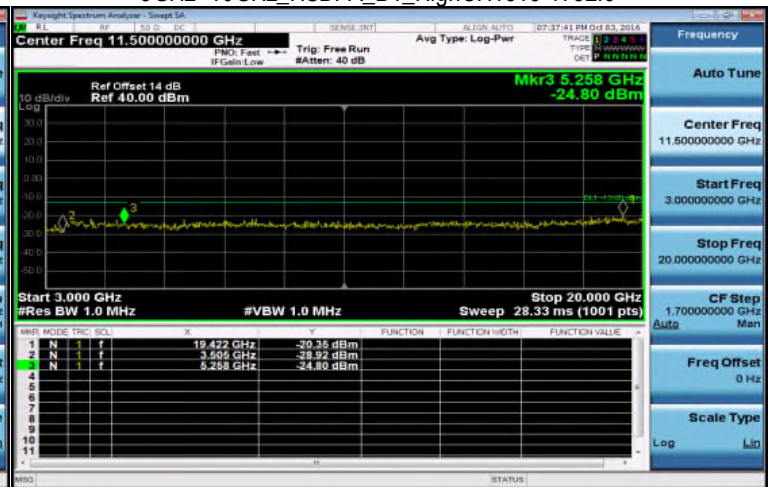
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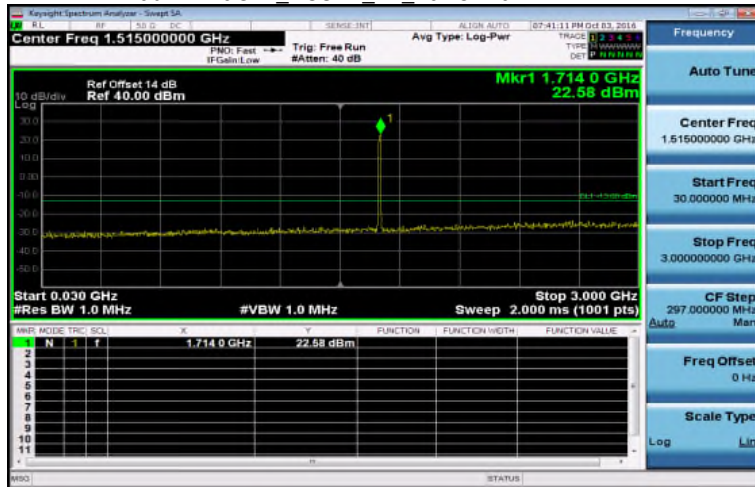


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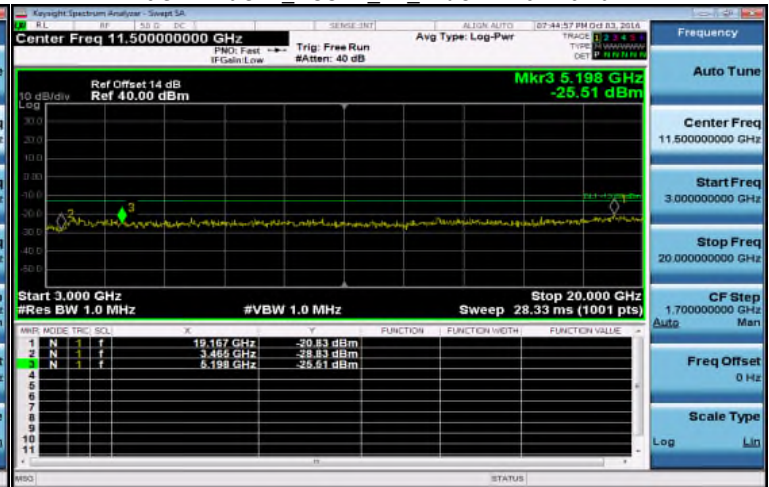
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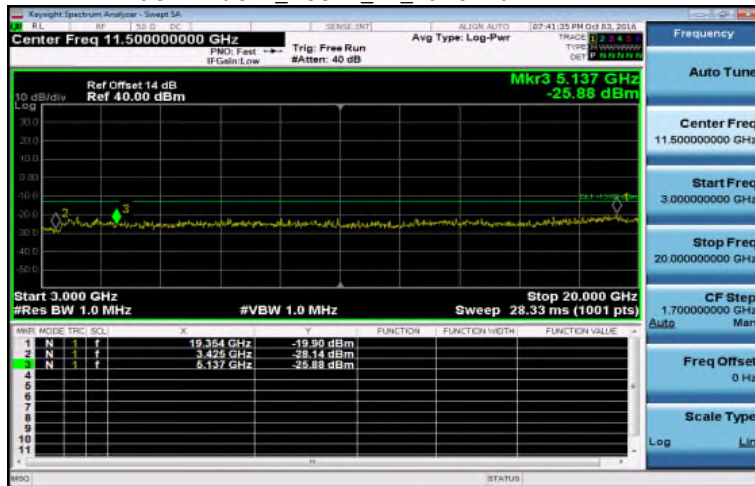
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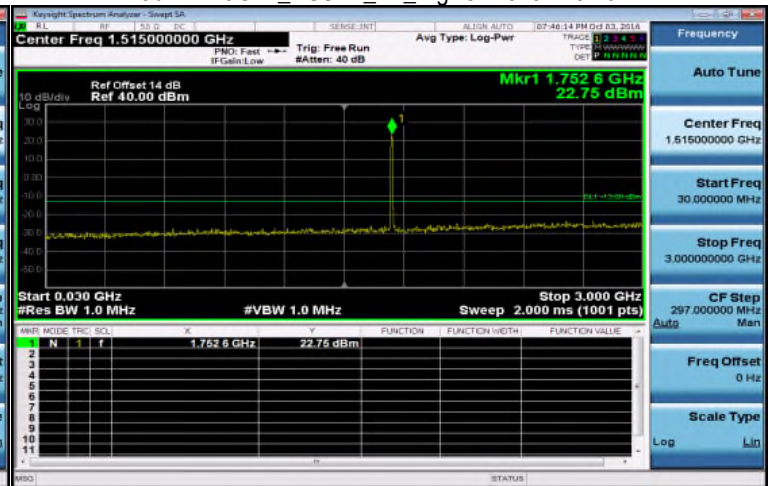
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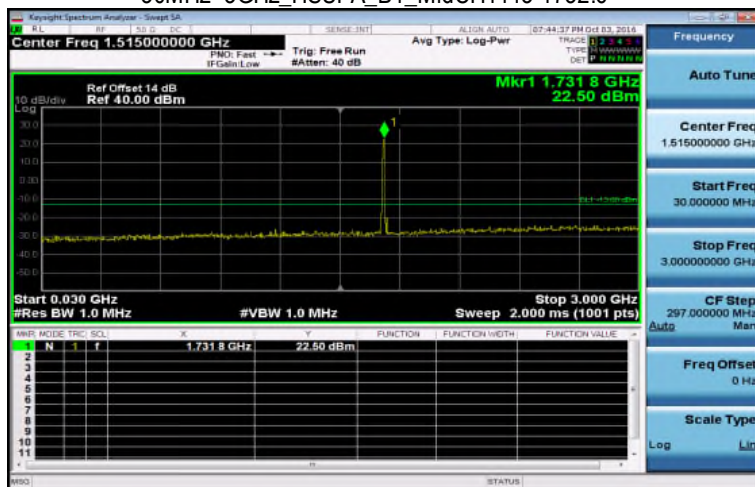
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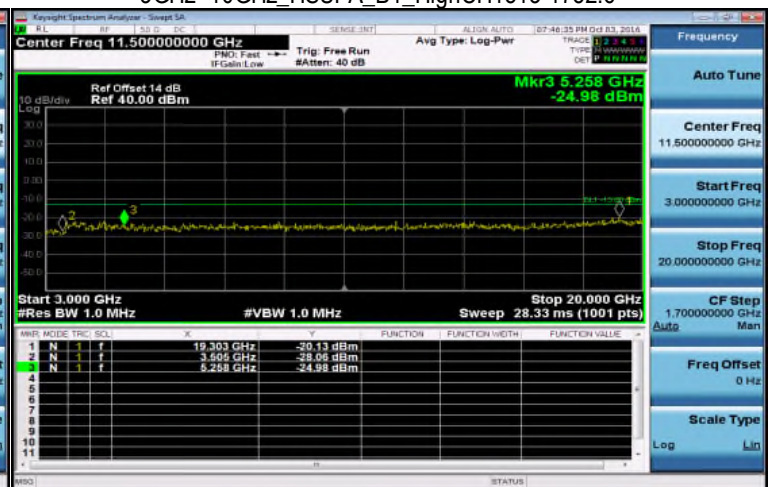
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30MHz~3GHz_HSUPA_B4_MidCH1413-1732.6



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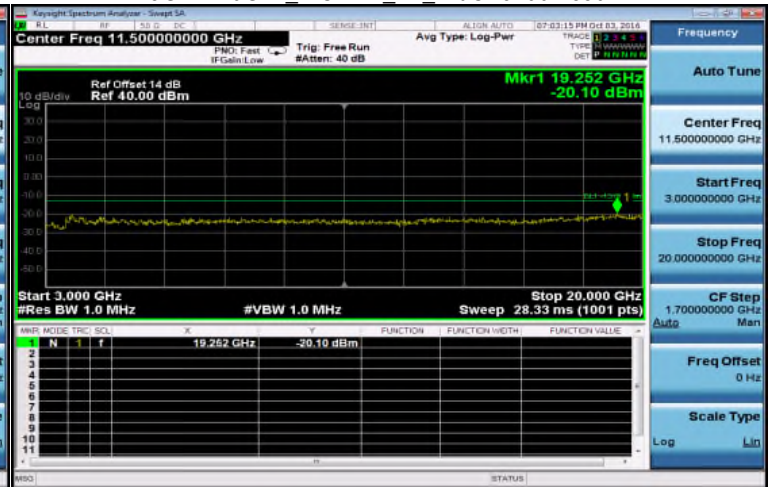
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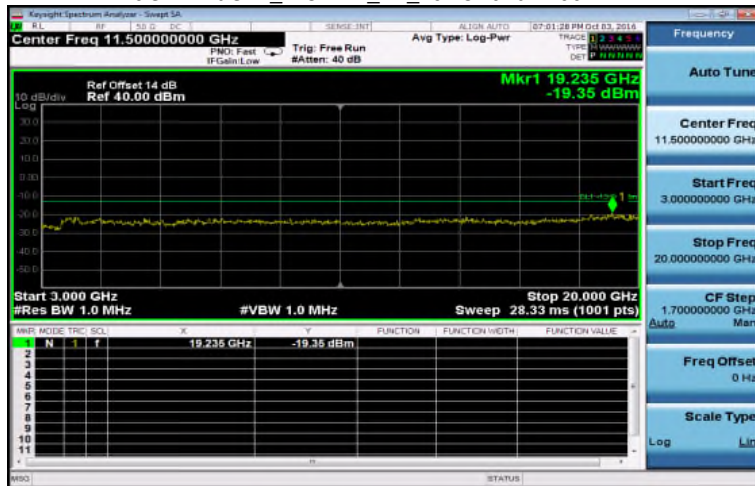
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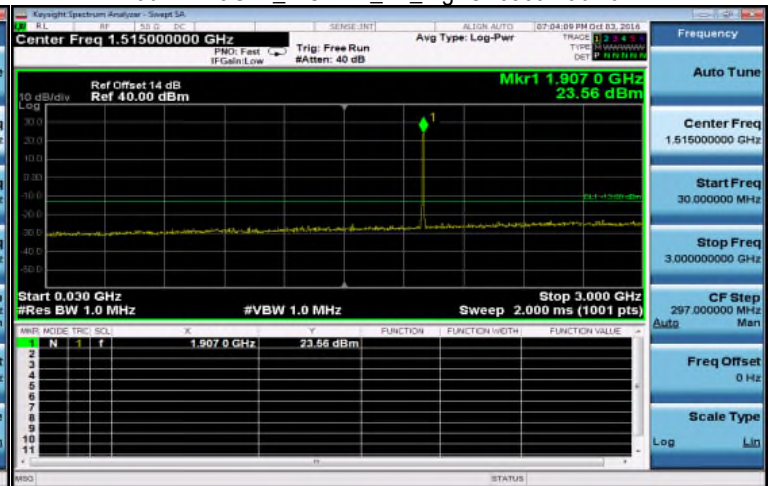
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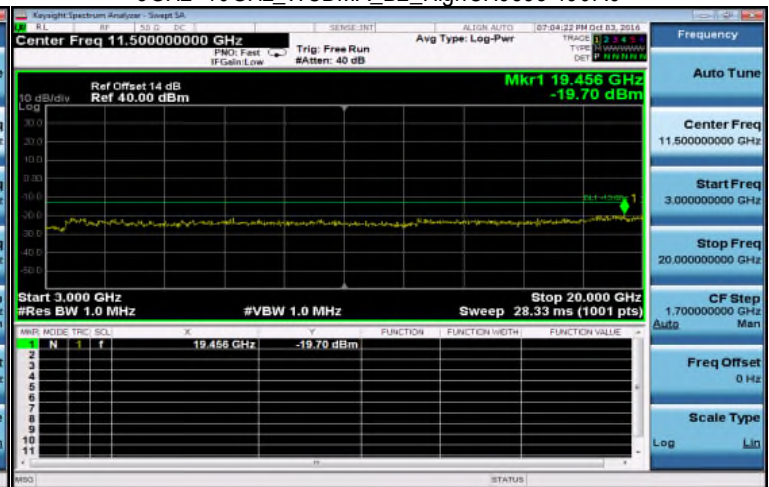
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30MHz~3GHz_WCDMA_B2_MidCH9400-1880



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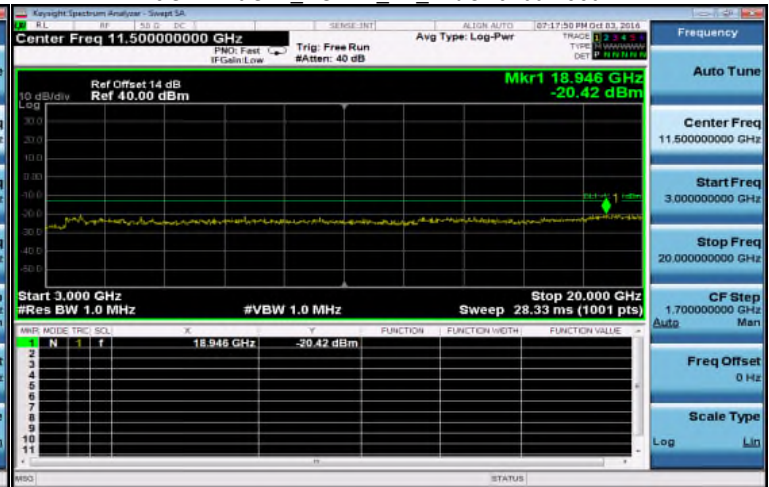
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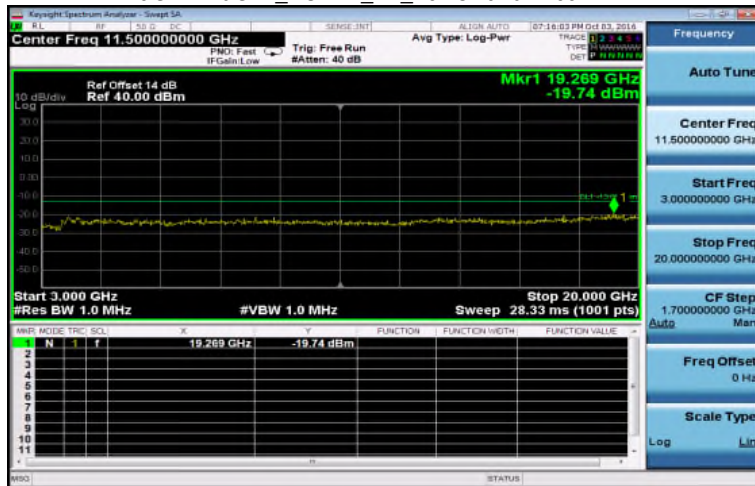
30MHz~3GHz_HSDPA_B2_LowCH9262-1852.4



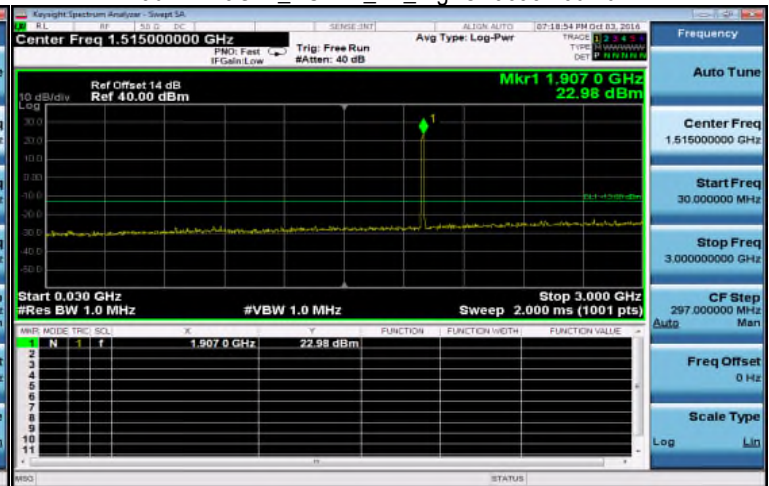
3GHz~10GHz_HSDPA_B2_MidCH9400-1880



3GHz~10GHz_HSDPA_B2_LowCH9262-1852.4



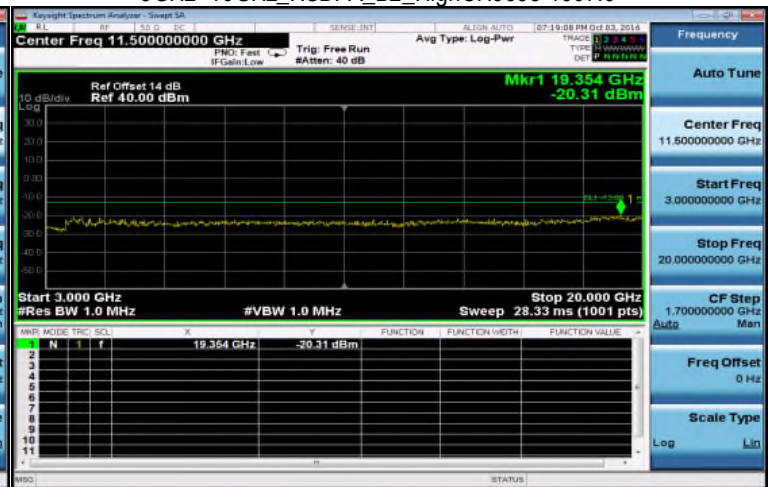
30MHz~3GHz_HSDPA_B2_HighCH9538-1907.6



30MHz~3GHz_HSDPA_B2_MidCH9400-1880



3GHz~10GHz_HSDPA_B2_HighCH9538-1907.6



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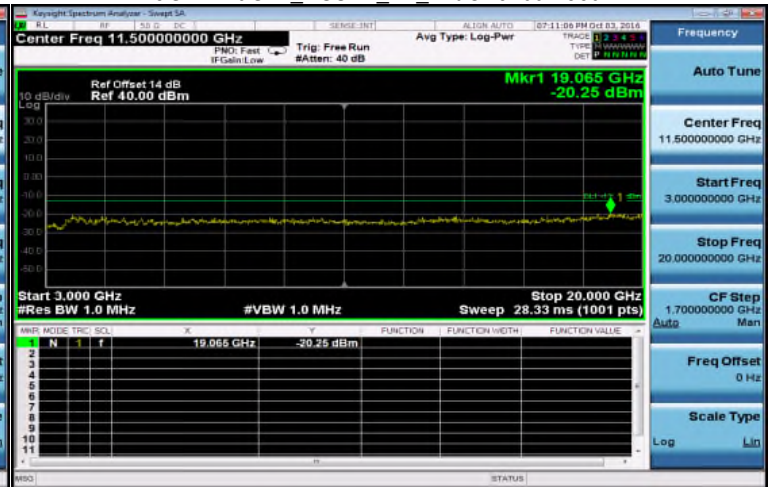
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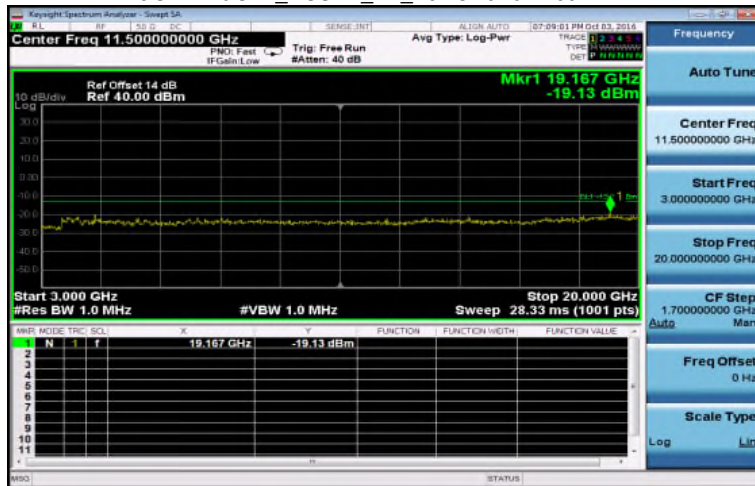
30MHz~3GHz_HSUPA_B2_LowCH9262-1852.4



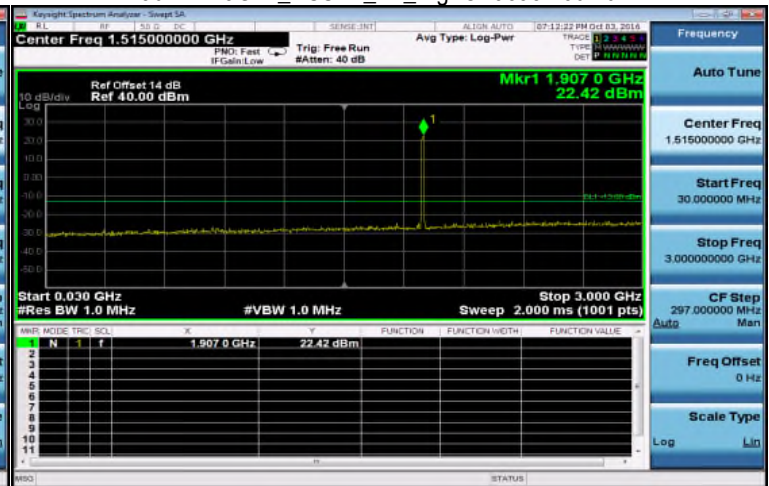
3GHz~10GHz_HSUPA_B2_MidCH9400-1880



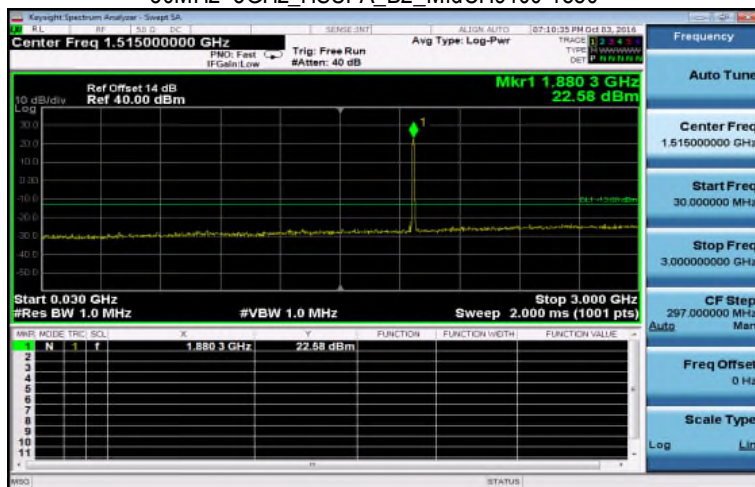
3GHz~10GHz_HSUPA_B2_LowCH9262-1852.4



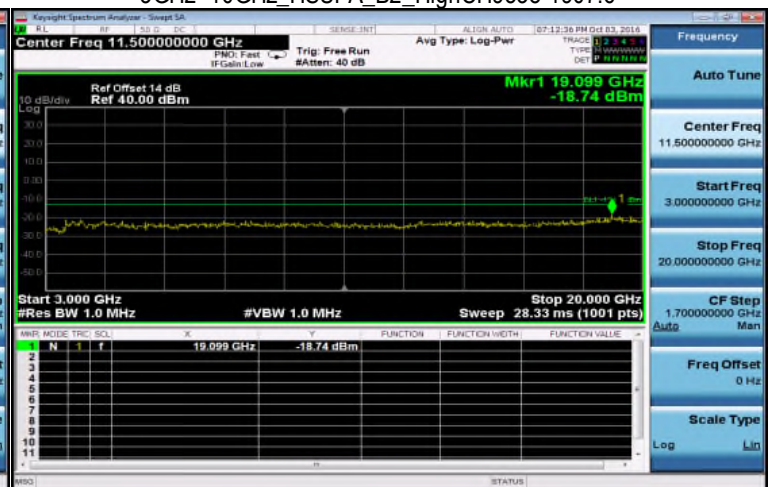
30MHz~3GHz_HSUPA_B2_HighCH9538-1907.6



30MHz~3GHz_HSUPA_B2_MidCH9400-1880



3GHz~10GHz_HSUPA_B2_HighCH9538-1907.6

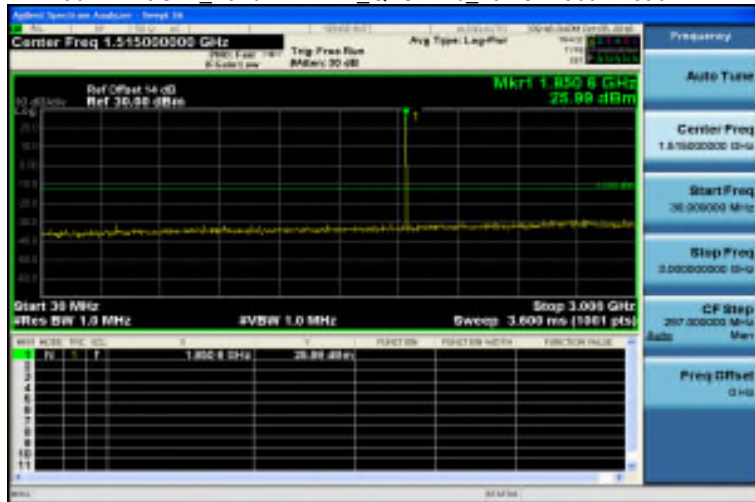


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30MHz~3GHz_Band2 1.4MHz_QPSK 1 0_LowCH18607-1850.7



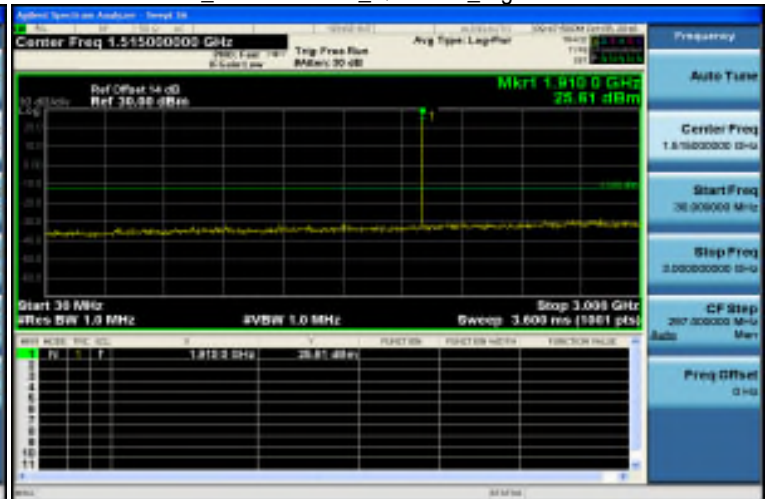
3GHz~10GHz_Band2 1.4MHz_QPSK 1 0_MidCH18900-1880



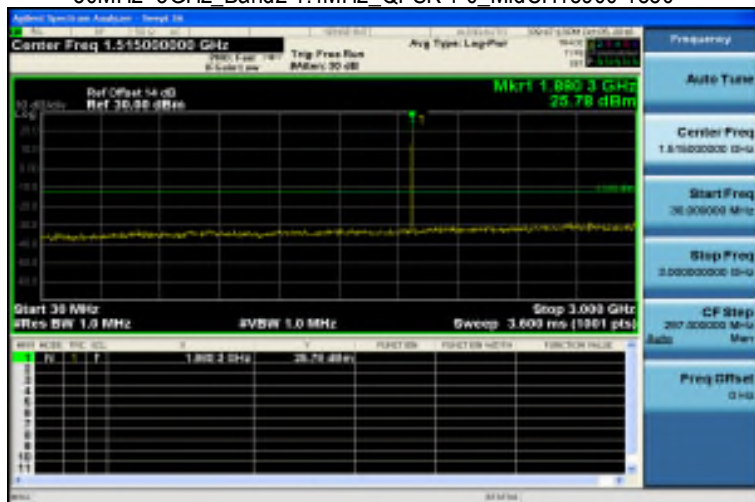
3GHz~10GHz_Band2 1.4MHz_QPSK 1 0_LowCH18607-1850.7



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

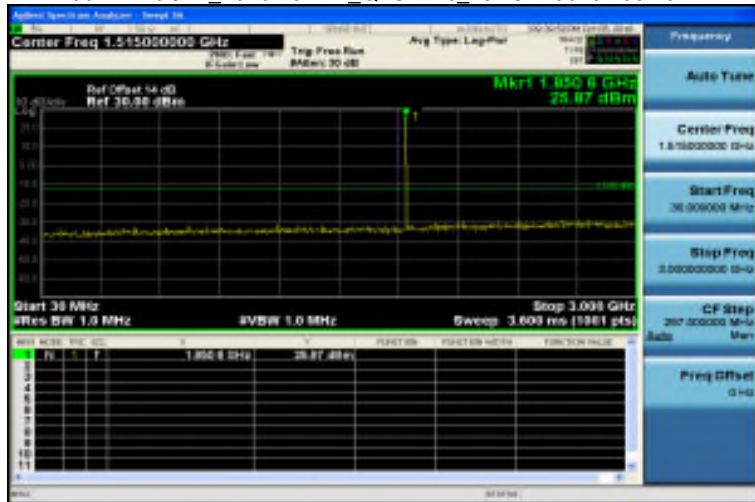


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30MHz~3GHz_Band2 3MHz_QPSK 1 0_LowCH18615-1851.5



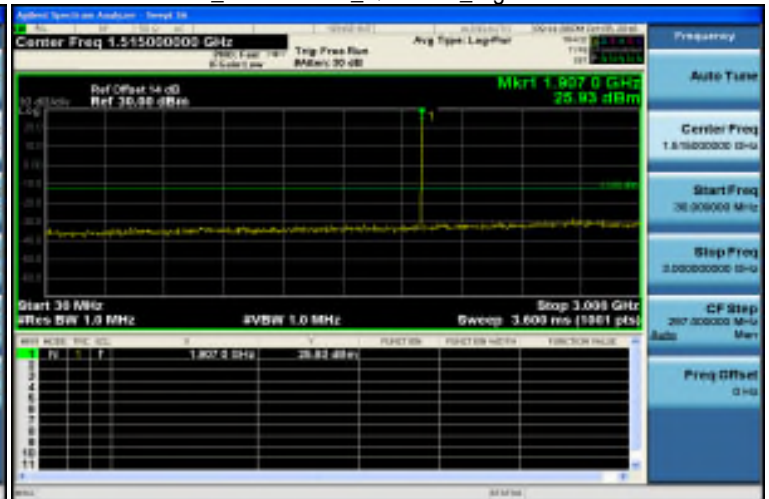
3GHz~10GHz_Band2 3MHz_QPSK 1 0_MidCH18900-1880



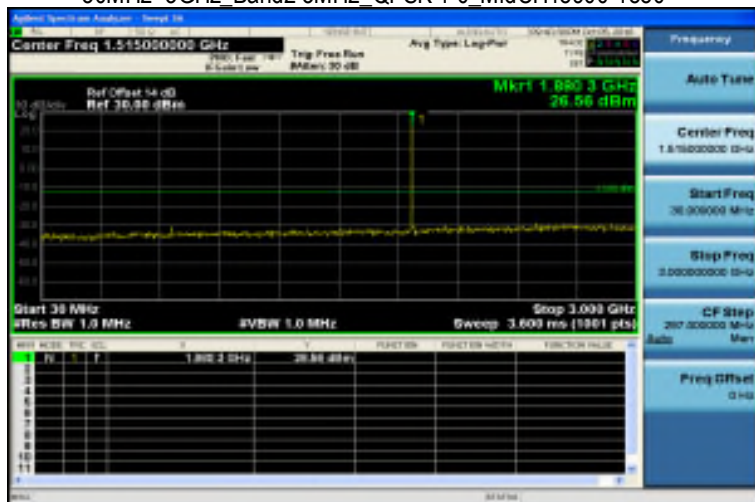
3GHz~10GHz_Band2 3MHz_QPSK 1 0_LowCH18615-1851.5



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

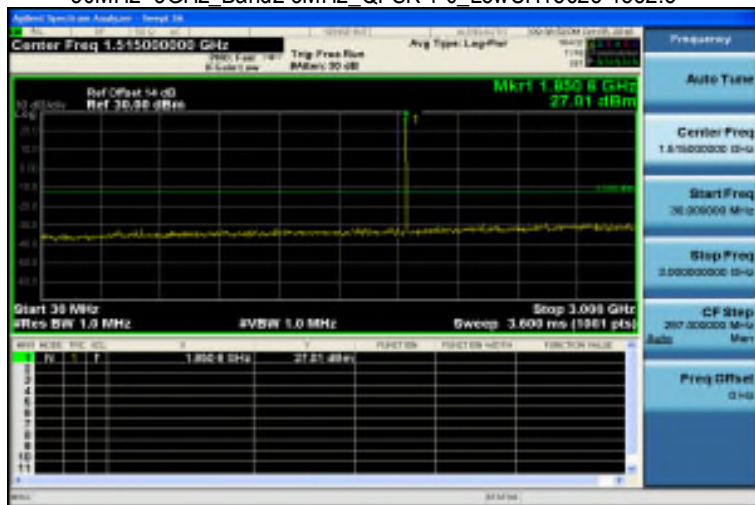


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30MHz~3GHz_Band2 5MHz_QPSK 1 0_LowCH18625-1852.5



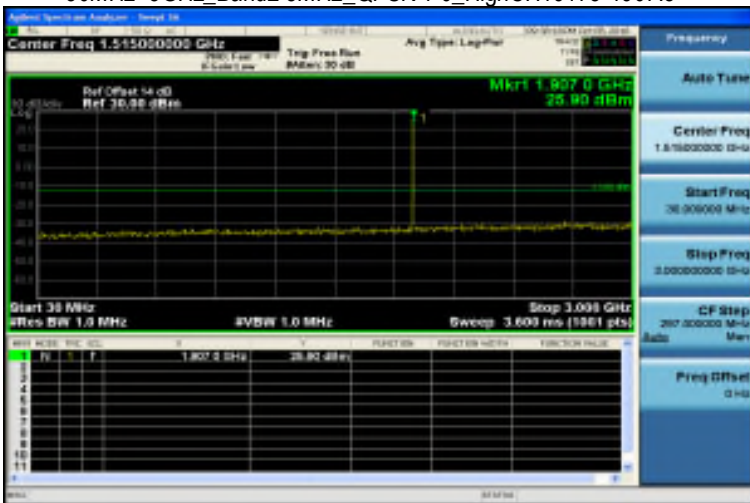
3GHz~10GHz_Band2 5MHz_QPSK 1 0_MidCH18900-1880



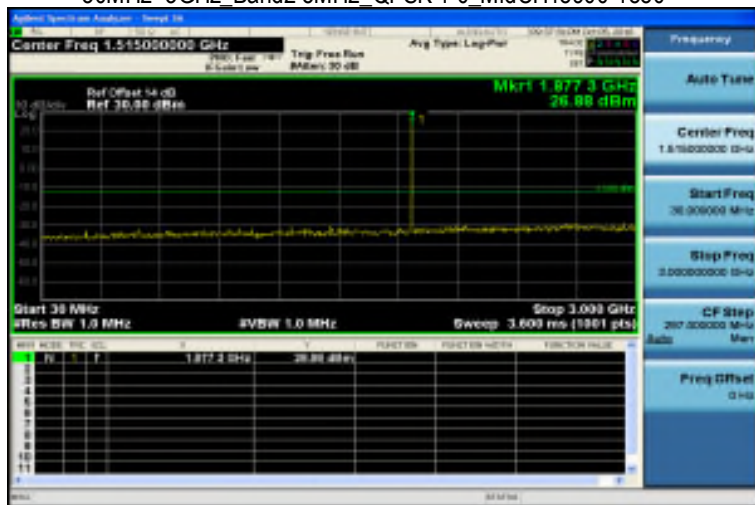
3GHz~10GHz_Band2 5MHz_QPSK 1 0_LowCH18625-1852.5



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

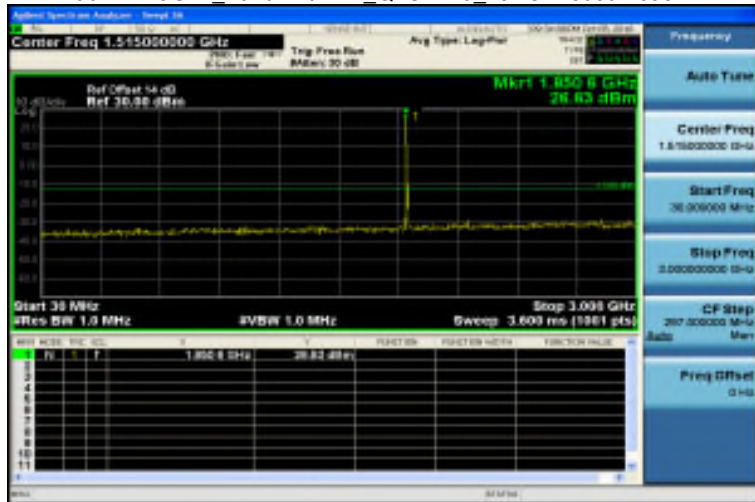


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30MHz~3GHz_Band2 10MHz_QPSK 1 0_LowCH18650-1855



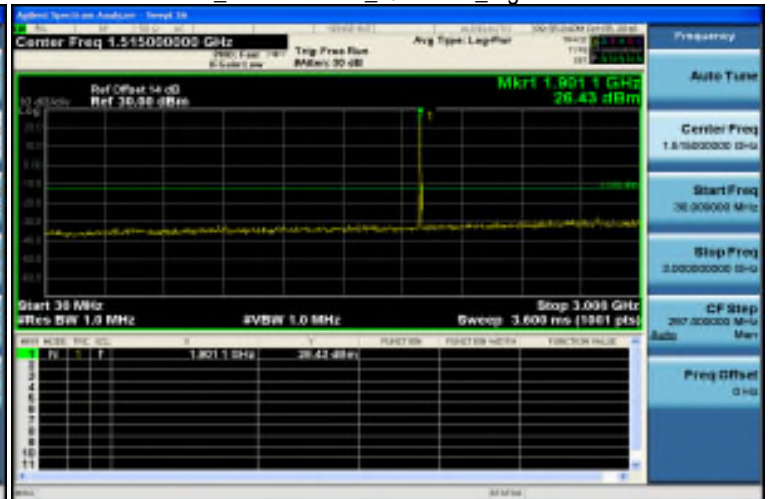
3GHz~10GHz_Band2 10MHz_QPSK 1 0_MidCH18900-1880



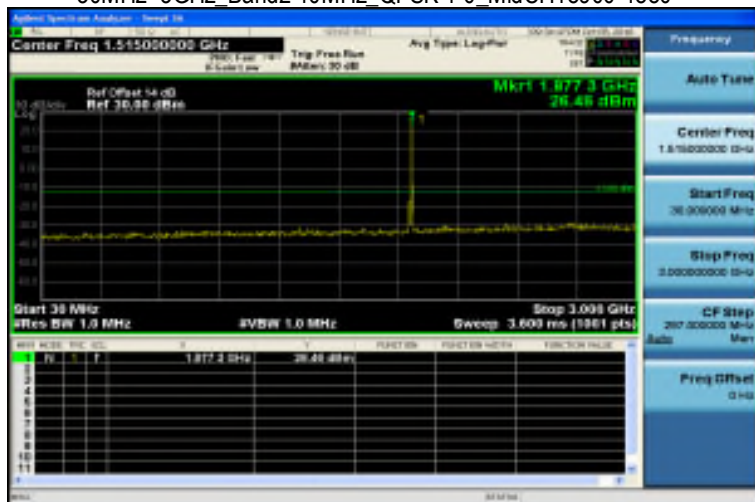
3GHz~10GHz_Band2 10MHz_QPSK 1 0_LowCH18650-1855



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

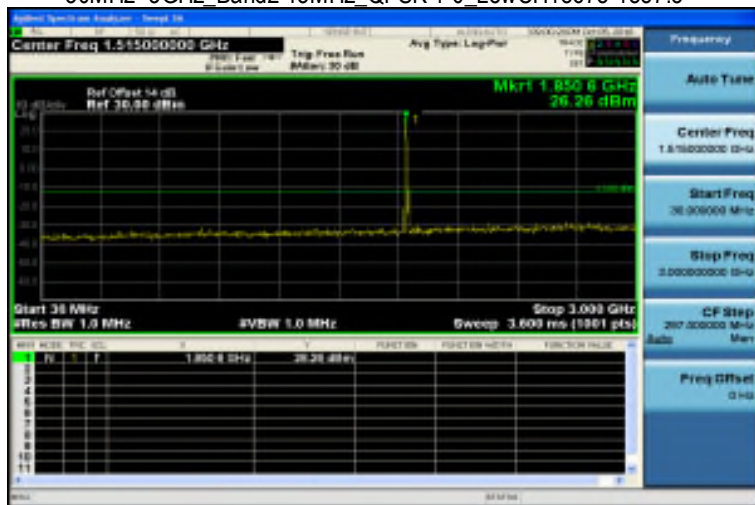


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30MHz~3GHz_Band2 15MHz_QPSK 1 0_LowCH18675-1857.5



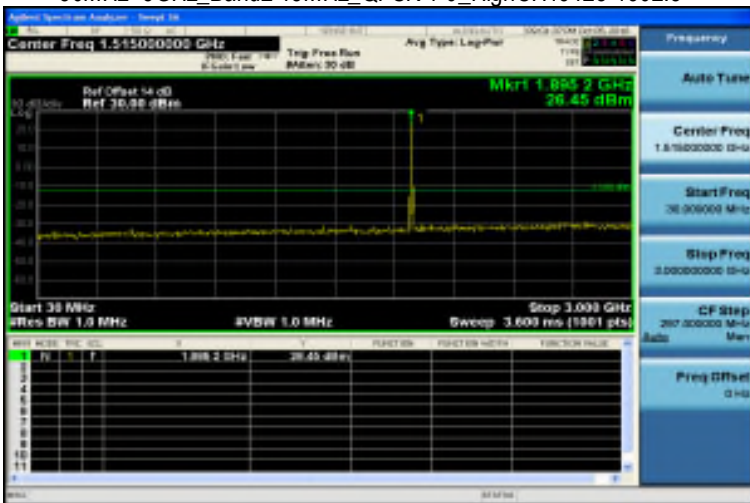
3GHz~10GHz_Band2 15MHz_QPSK 1 0_MidCH18900-1880



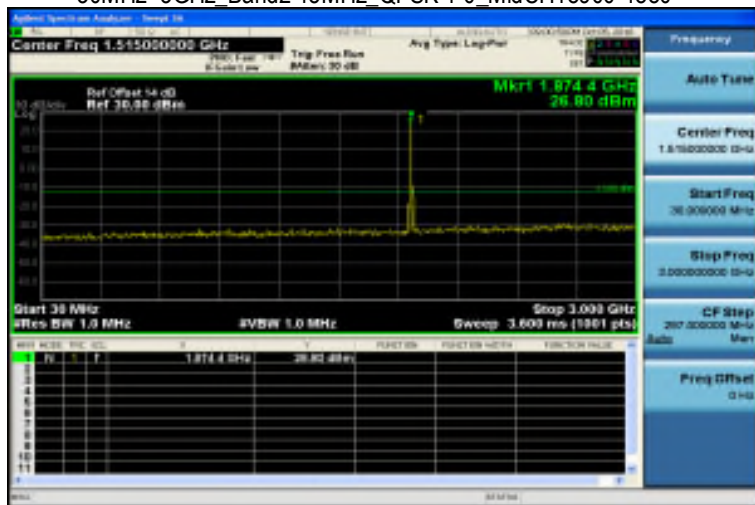
3GHz~10GHz_Band2 15MHz_QPSK 1 0_LowCH18675-1857.5



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

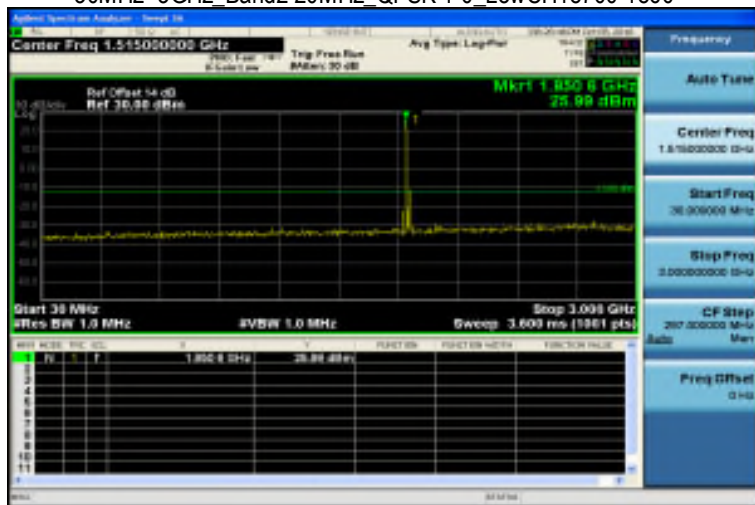


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30MHz~3GHz_Band2 20MHz_QPSK 1 0_LowCH18700-1860



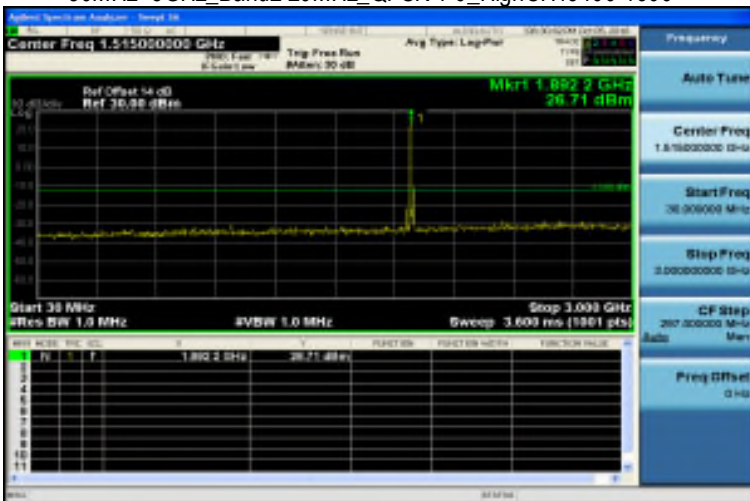
3GHz~10GHz_Band2 20MHz_QPSK 1 0_MidCH18900-1880



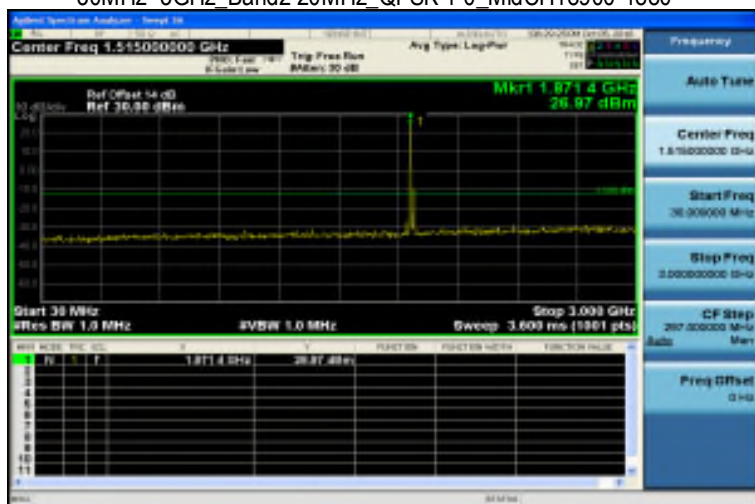
3GHz~10GHz_Band2 20MHz_QPSK 1 0_LowCH18700-1860



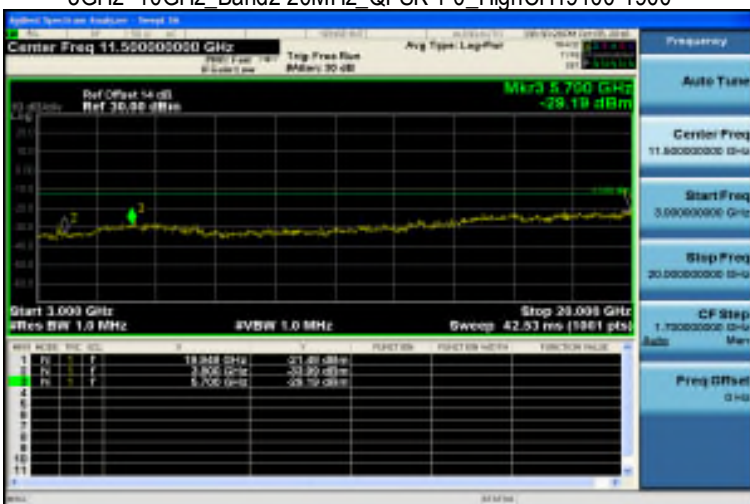
30MHz~3GHz_Band2 20MHz_QPSK 1 0_HighCH19100-1900



30MHz~3GHz_Band2 20MHz_QPSK 1 0_MidCH18900-1880



3GHz~10GHz_Band2 20MHz_QPSK 1 0_HighCH19100-1900

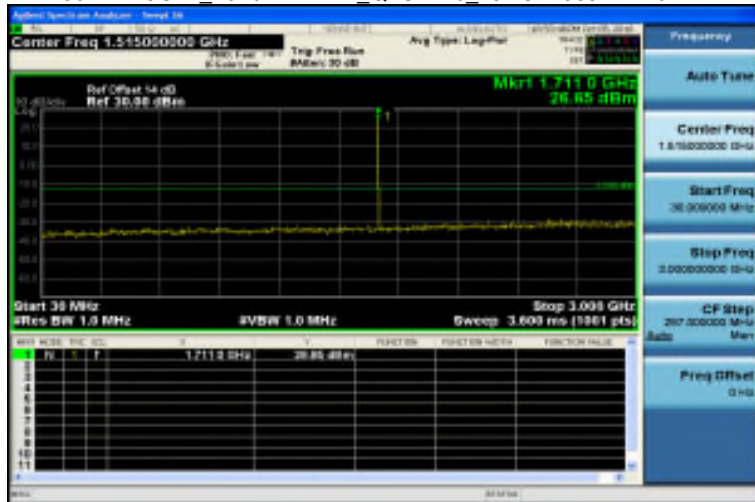


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30MHz~3GHz_Band4 1.4MHz_QPSK 1 0_LowCH19957-1710.7



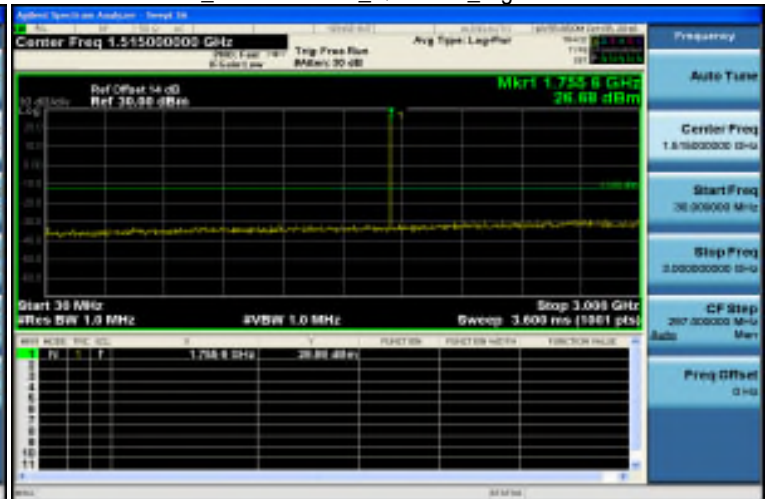
3GHz~10GHz_Band4 1.4MHz_QPSK 1 0_MidCH20175-1732.5



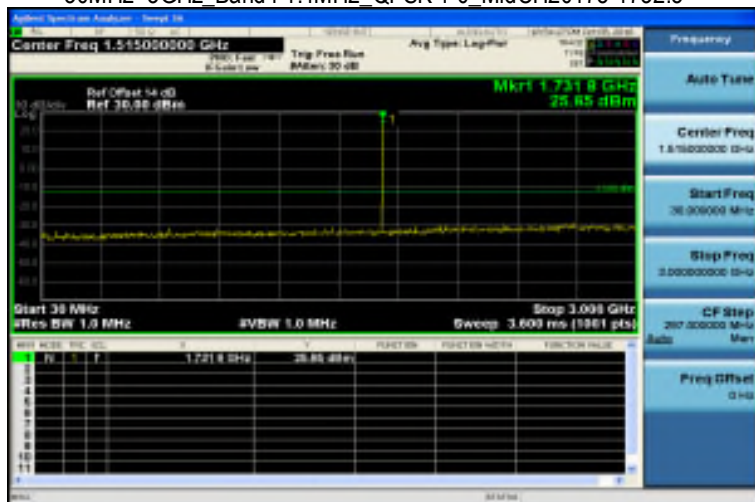
3GHz~10GHz_Band4 1.4MHz_QPSK 1 0_LowCH19957-1710.7



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

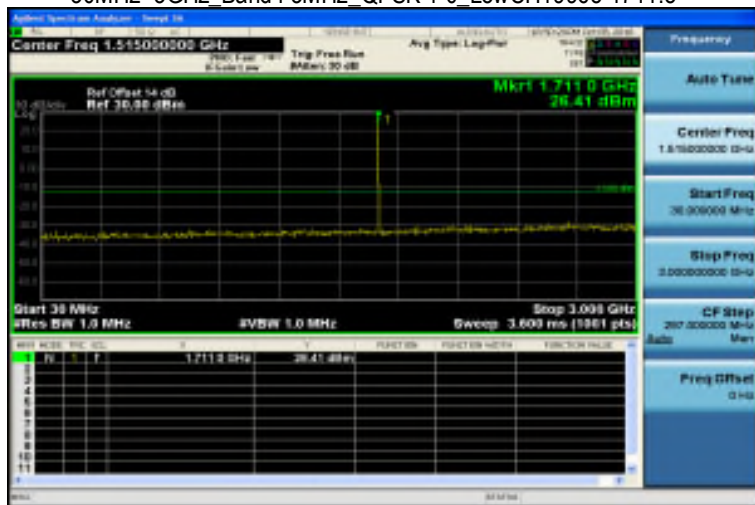


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30MHz~3GHz_Band4 3MHz_QPSK 1 0_LowCH19965-1711.5



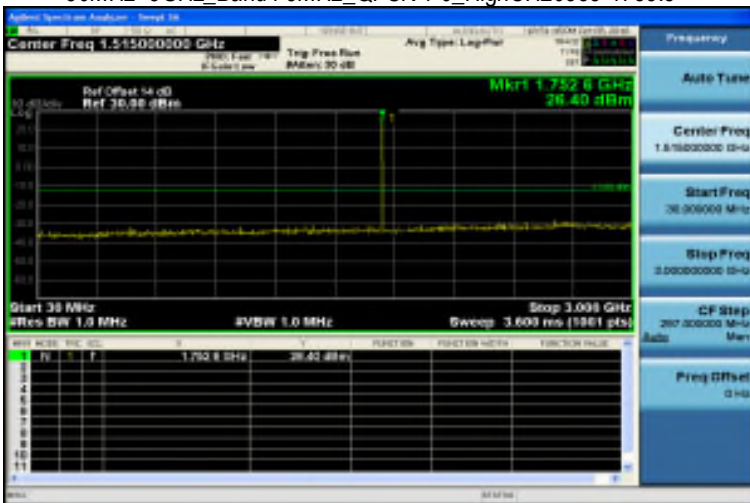
3GHz~10GHz_Band4 3MHz_QPSK 1 0_MidCH20175-1732.5



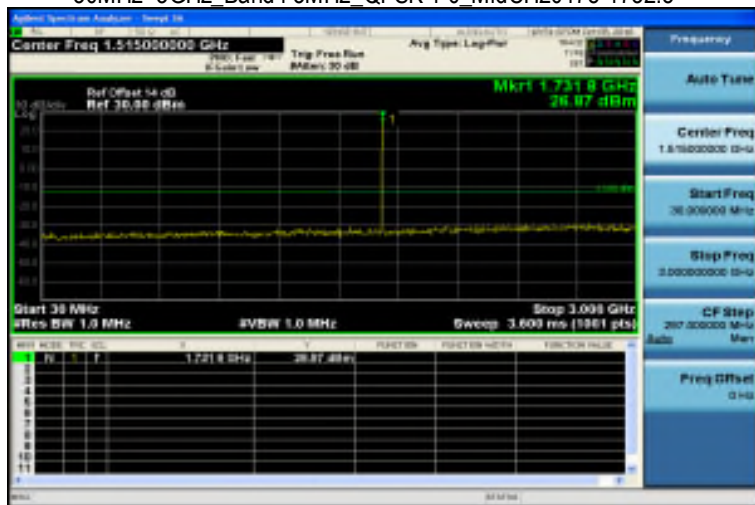
3GHz~10GHz_Band4 3MHz_QPSK 1 0_LowCH19965-1711.5



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

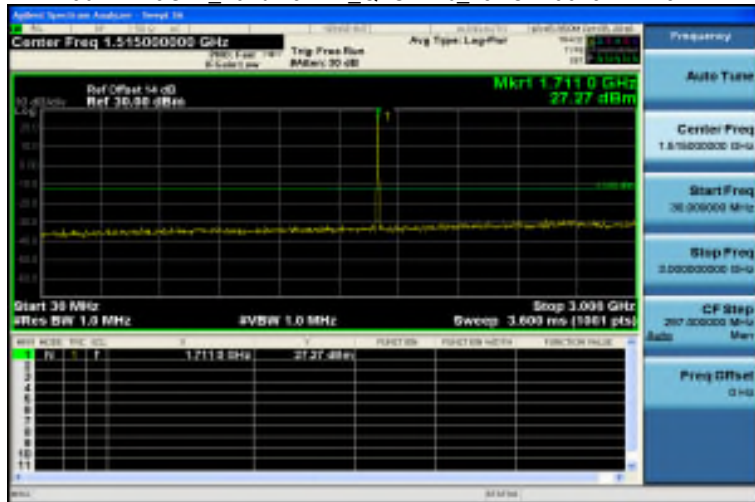


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30MHz~3GHz_Band4 5MHz_QPSK 1 0_LowCH19975-1712.5



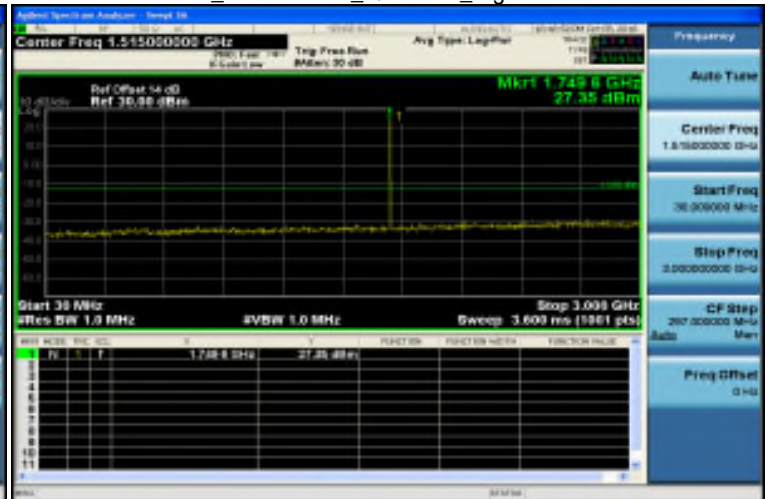
3GHz~10GHz_Band4 5MHz_QPSK 1 0_MidCH20175-1732.5



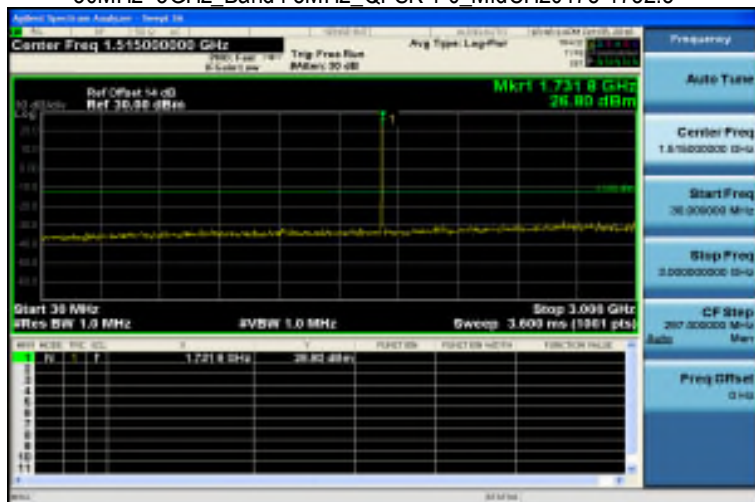
3GHz~10GHz_Band4 5MHz_QPSK 1 0_LowCH19975-1712.5



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

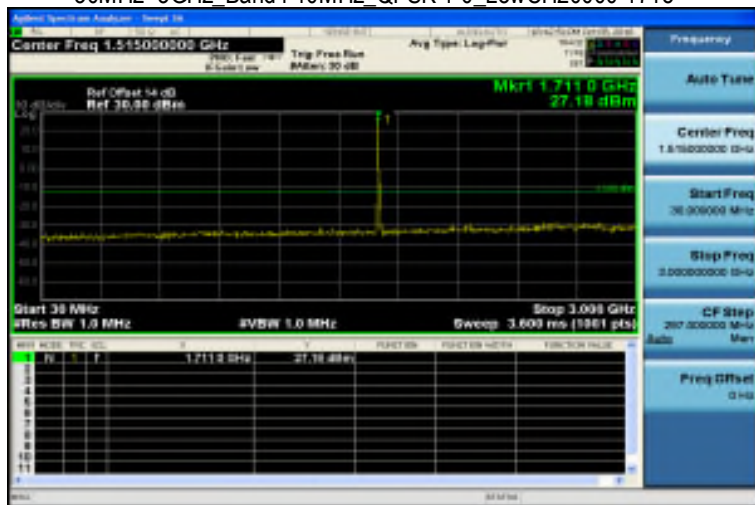


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30MHz~3GHz_Band4 10MHz_QPSK 1 0_LowCH20000-1715



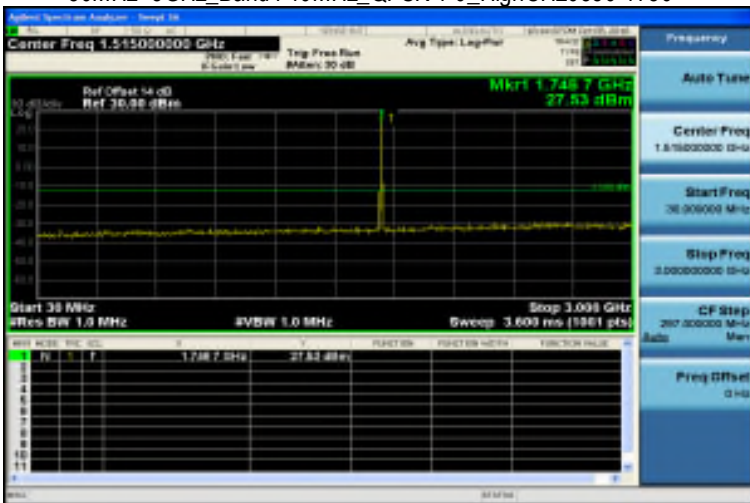
3GHz~10GHz_Band4 10MHz_QPSK 1 0_MidCH20175-1732.5



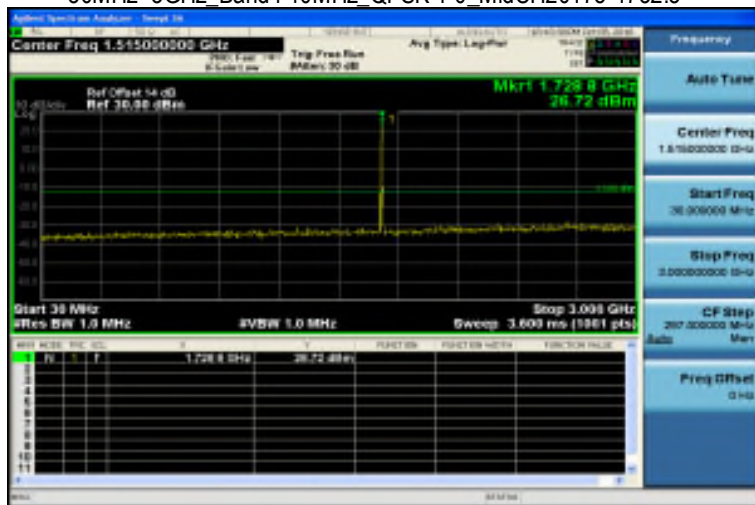
3GHz~10GHz_Band4 10MHz_QPSK 1 0_LowCH20000-1715



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

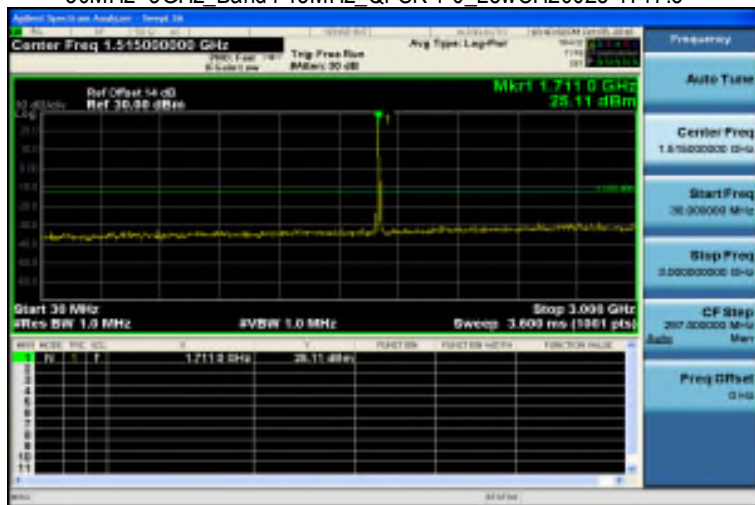


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30MHz~3GHz_Band4 15MHz_QPSK 1 0_LowCH20025-1717.5



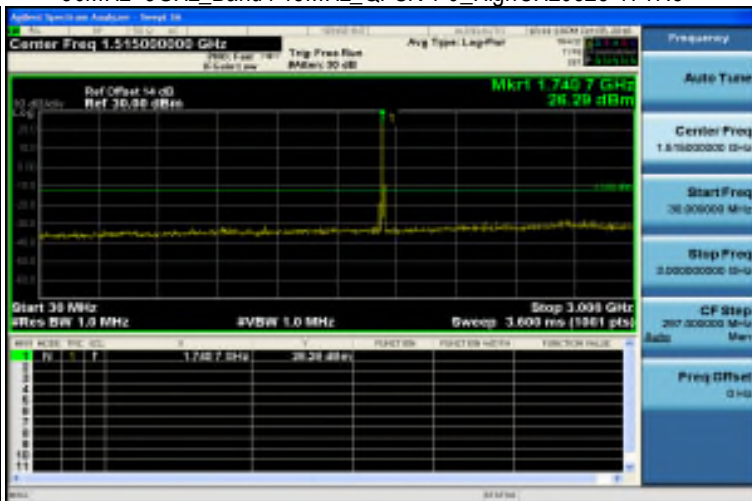
3GHz~10GHz_Band4 15MHz_QPSK 1 0_MidCH20175-1732.5



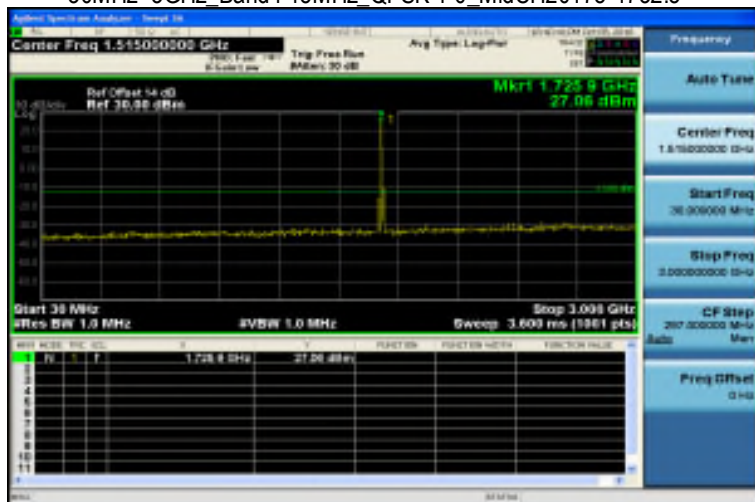
3GHz~10GHz_Band4 15MHz_QPSK 1 0_LowCH20025-1717.5



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

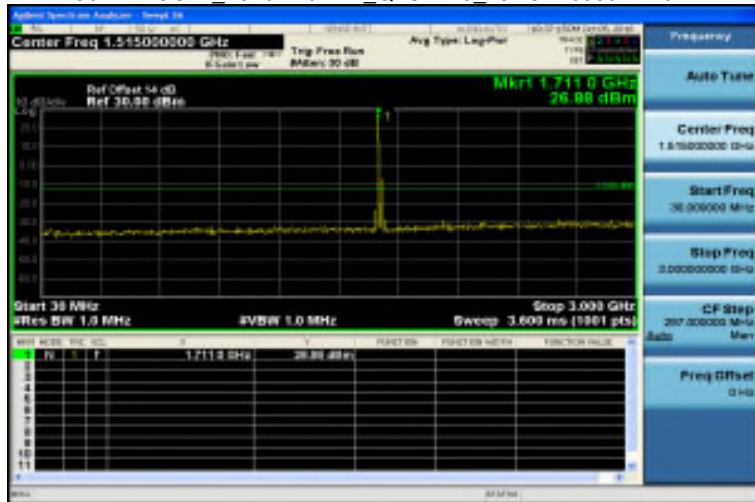


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30MHz~3GHz_Band4 20MHz_QPSK 1 0_LowCH20050-1720



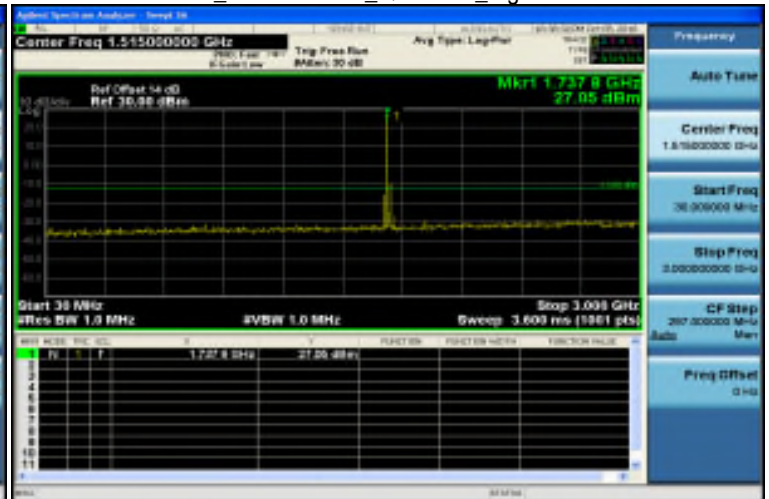
3GHz~10GHz_Band4 20MHz_QPSK 1 0_MidCH20175-1732.5



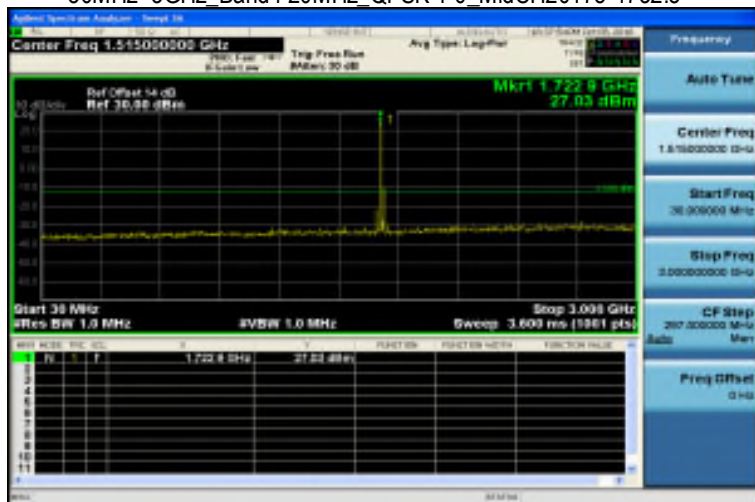
3GHz~10GHz_Band4 20MHz_QPSK 1 0_LowCH20050-1720



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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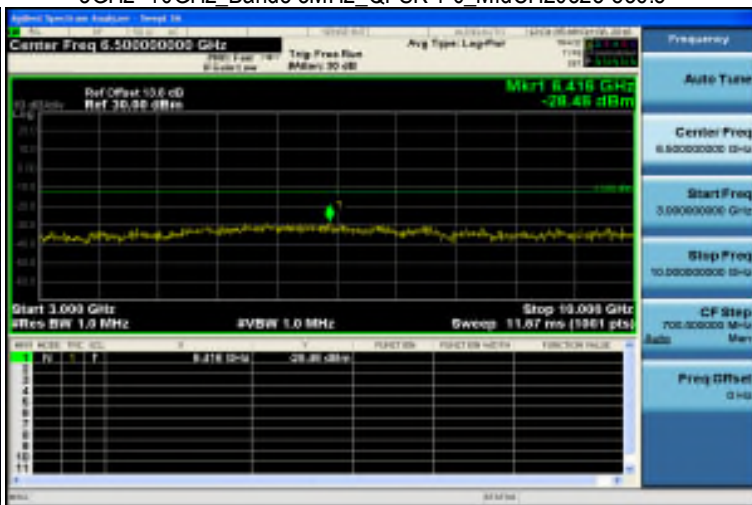
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30MHz~3GHz_Band5 3MHz_QPSK 1 0_LowCH20415-825.5



3GHz~10GHz_Band5 3MHz_QPSK 1 0_MidCH20525-836.5



3GHz~10GHz_Band5 3MHz_QPSK 1 0_LowCH20415-825.5



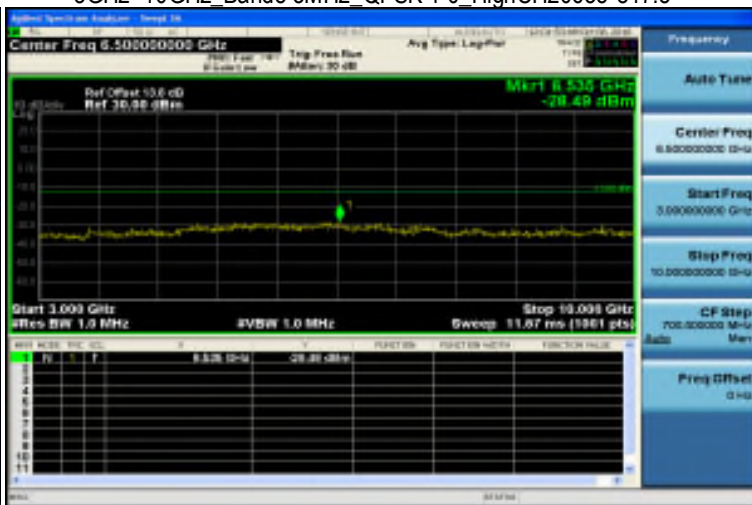
30MHz~3GHz_Band5 3MHz_QPSK 1 0_HighCH20635-847.5



30MHz~3GHz_Band5 3MHz_QPSK 1 0_MidCH20525-836.5



3GHz~10GHz_Band5 3MHz_QPSK 1 0_HighCH20635-847.5

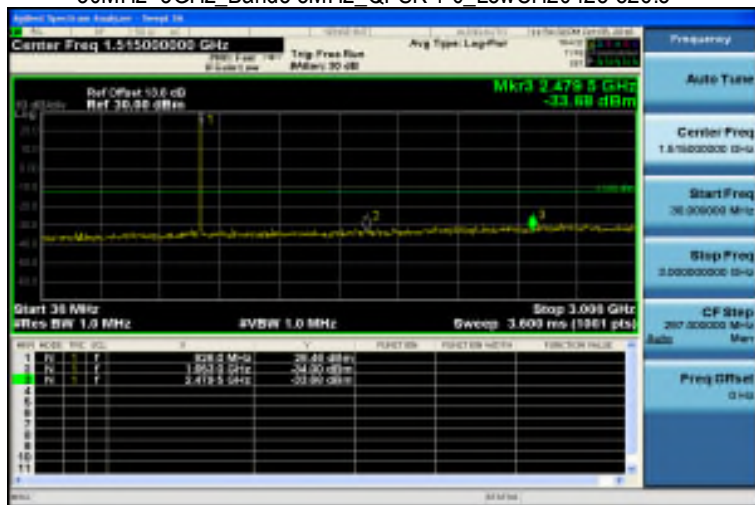


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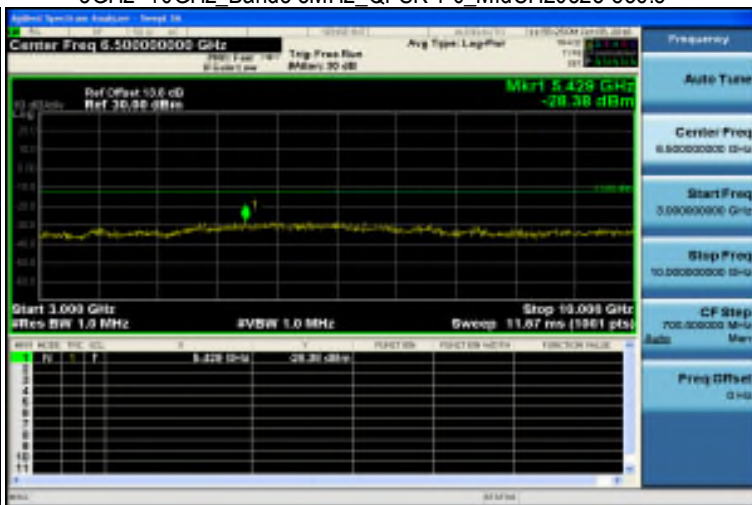
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30MHz~3GHz_Band5 5MHz_QPSK 1 0_LowCH20425-826.5



3GHz~10GHz_Band5 5MHz_QPSK 1 0_MidCH20525-836.5



3GHz~10GHz_Band5 5MHz_QPSK 1 0_LowCH20425-826.5



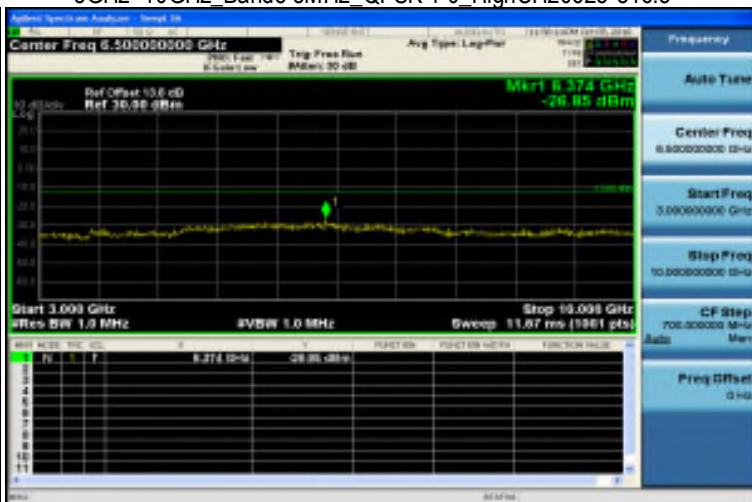
30MHz~3GHz_Band5 5MHz_QPSK 1 0_HighCH20625-846.5



30MHz~3GHz_Band5 5MHz_QPSK 1 0_MidCH20525-836.5



3GHz~10GHz_Band5 5MHz_QPSK 1 0_HighCH20625-846.5

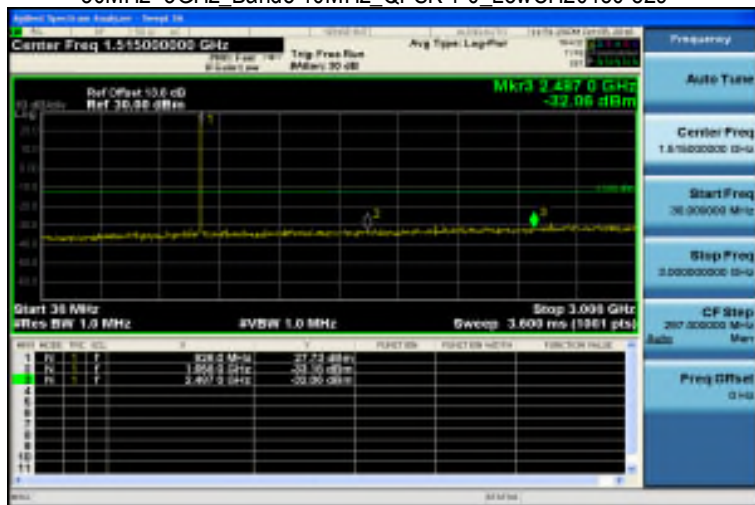


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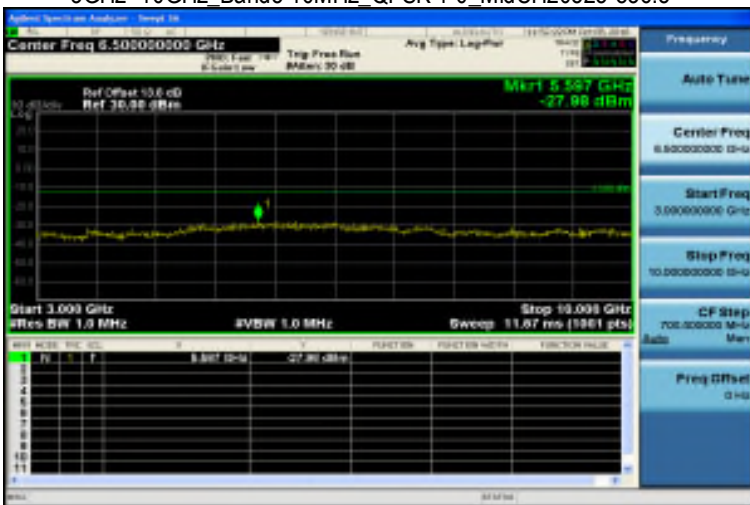
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30MHz~3GHz_Band5 10MHz_QPSK 1 0_LowCH20450-829



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

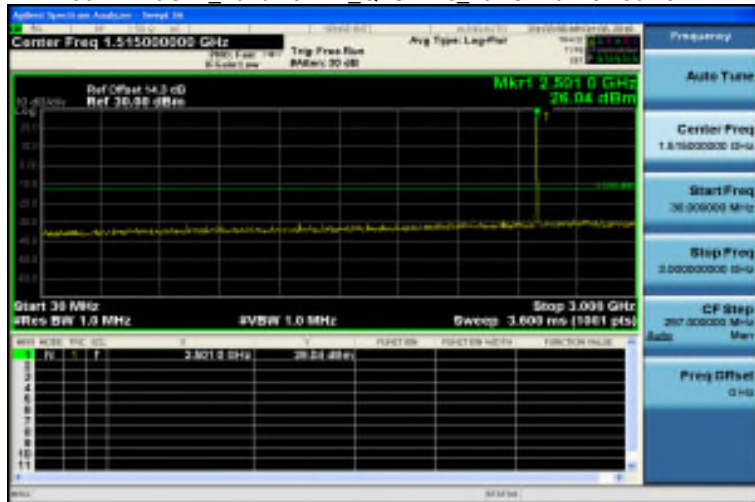


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30MHz~3GHz_Band7 5MHz_QPSK 1 0_LowCH20775-2502.5



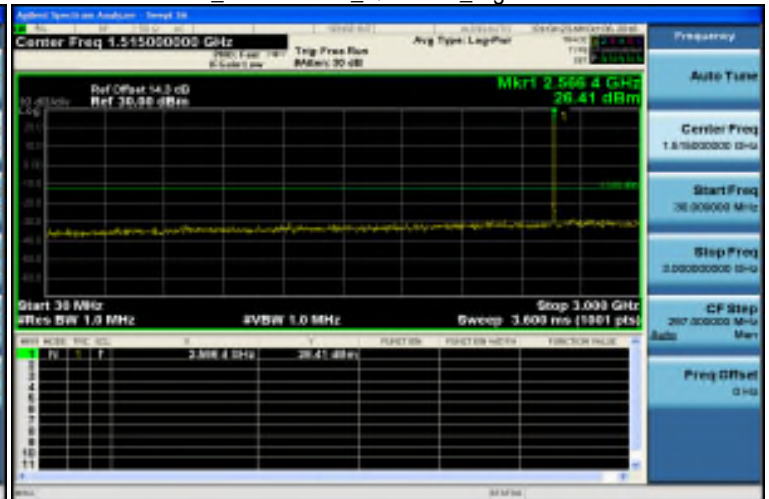
3GHz~10GHz_Band7 5MHz_QPSK 1 0_MidCH21100-2535



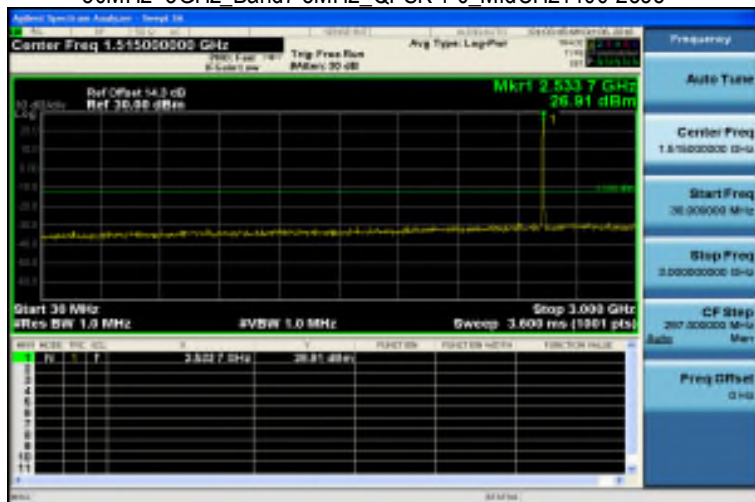
3GHz~10GHz_Band7 5MHz_QPSK 1 0_LowCH20775-2502.5



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

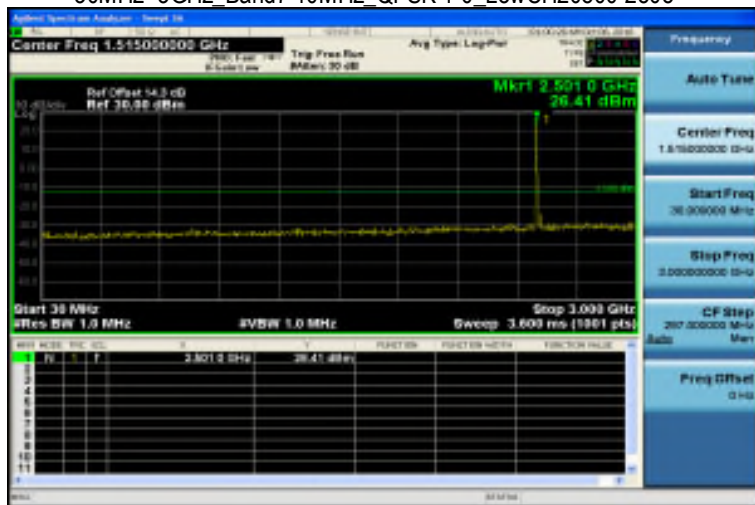


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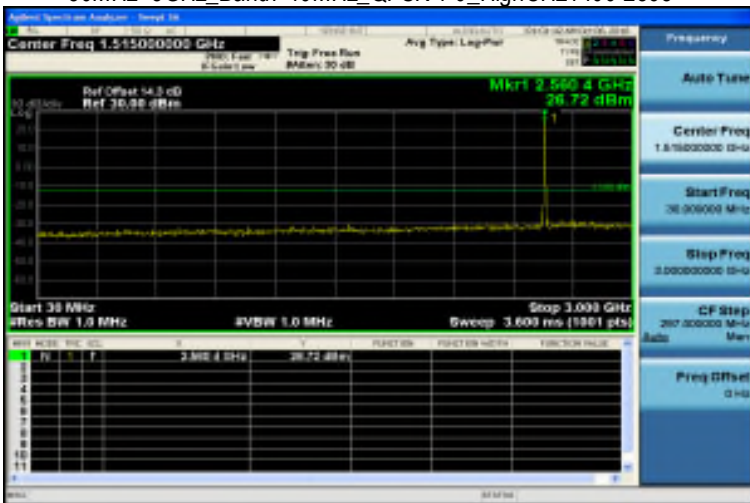
3GHz~10GHz_Band7 10MHz_QPSK 1 0_MidCH21100-2535



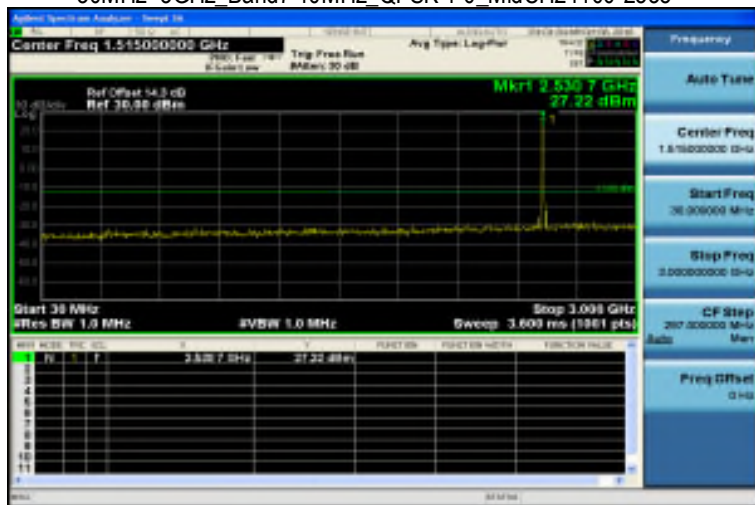
3GHz~10GHz_Band7 10MHz_QPSK 1 0_LowCH20800-2505



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

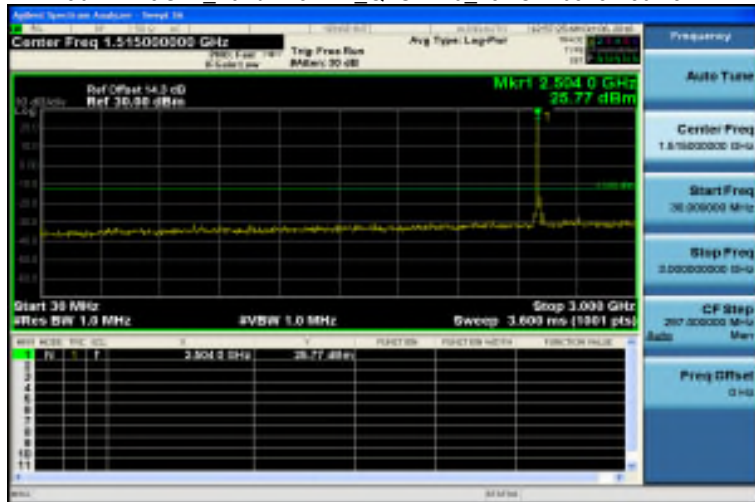


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30MHz~3GHz_Band7 15MHz_QPSK 1 0_LowCH20825-2507.5



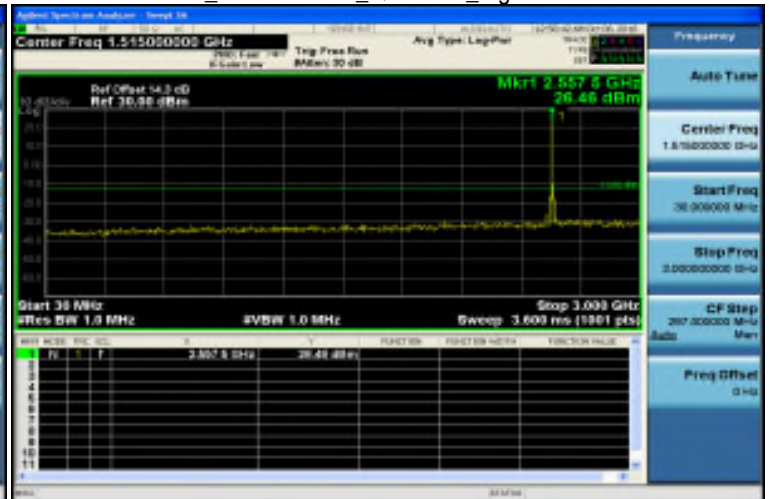
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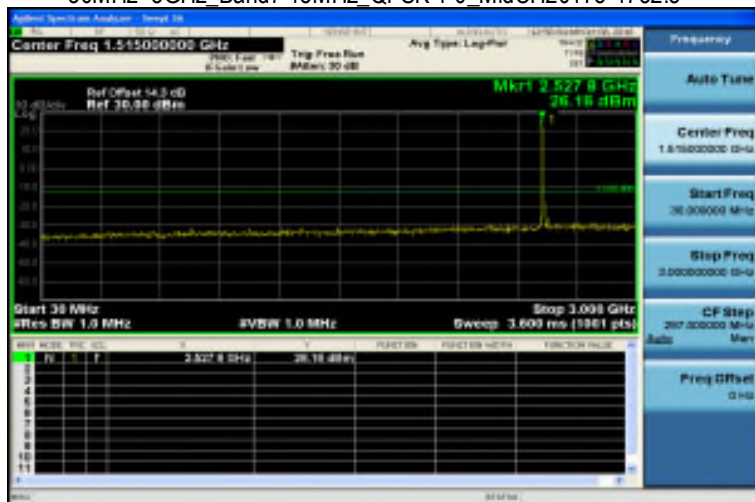
3GHz~10GHz_Band7 15MHz_QPSK 1 0_LowCH20825-2507.5



30MHz~3GHz_Band7 15MHz_QPSK 1 0_HighCH21375-2562.5



30MHz~3GHz_Band7 15MHz_QPSK 1 0_MidCH20175-1732.5



3GHz~10GHz_Band7 15MHz_QPSK 1 0_HighCH21375-2562.5

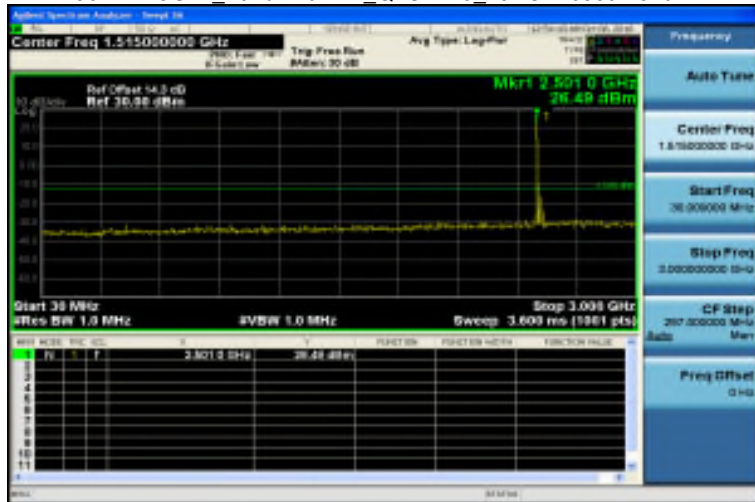


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30MHz~3GHz_Band7 20MHz_QPSK 1 0_LowCH20850-2510



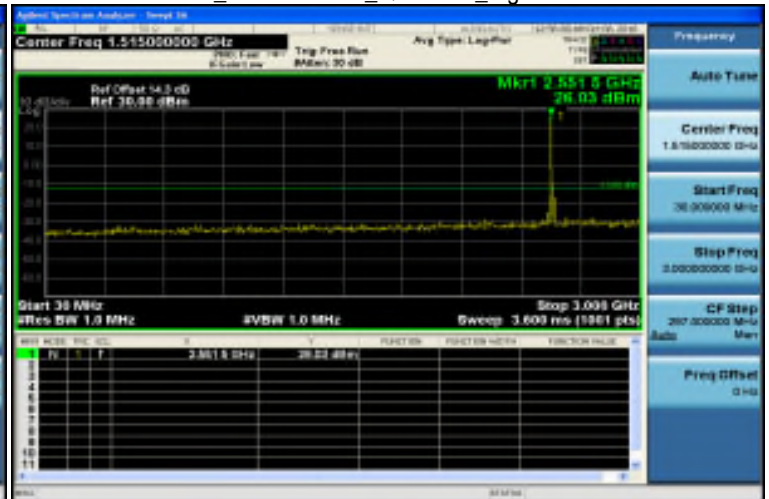
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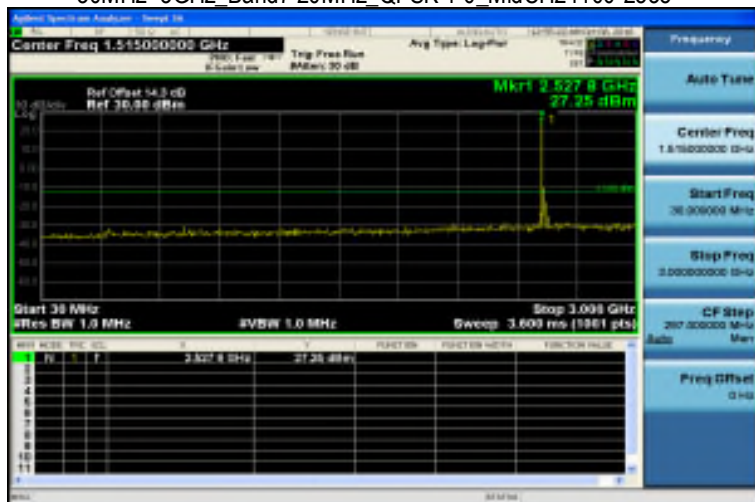
3GHz~10GHz_Band7 20MHz_QPSK 1 0_LowCH20850-2510



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



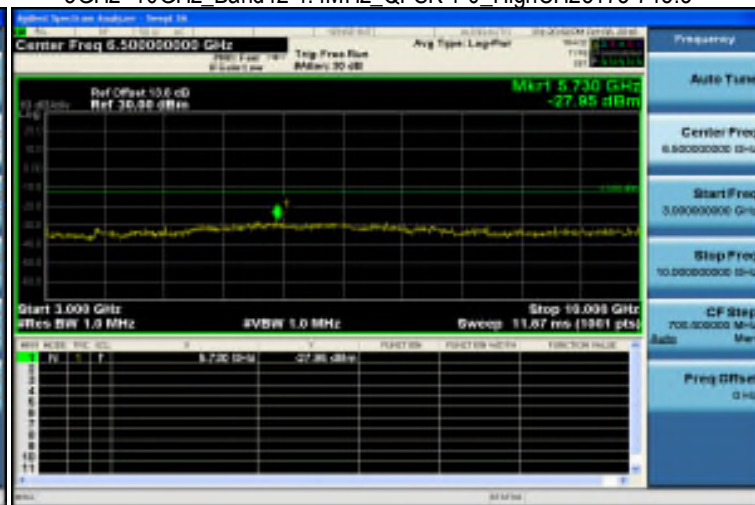
30MHz~3GHz_Band12 1.4MHz_QPSK 1 0_HighCH23173-715.3



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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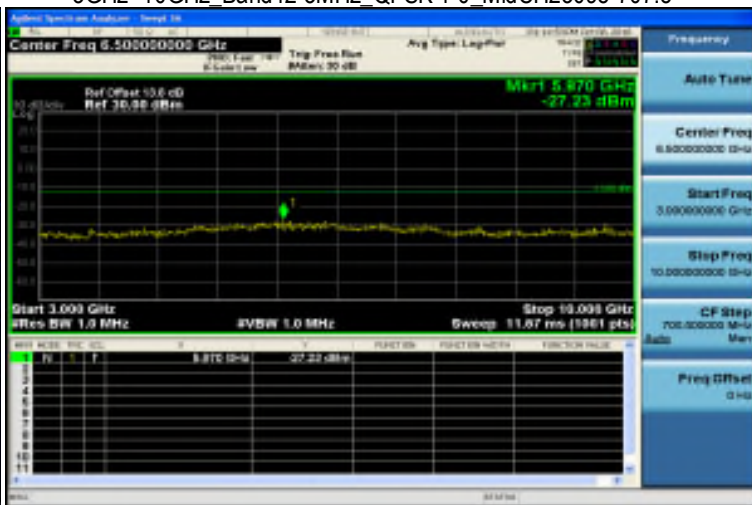
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30MHz~3GHz_Band12 3MHz_QPSK 1 0_LowCH23025-700.5



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

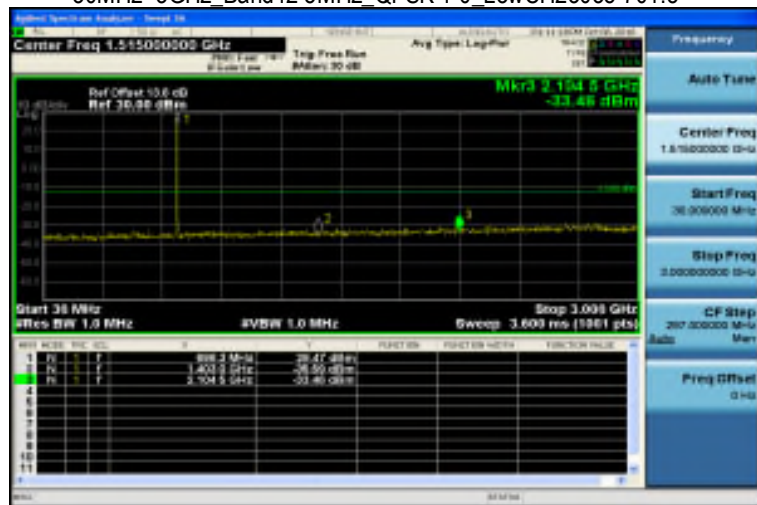


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30MHz~3GHz_Band12 5MHz_QPSK 1 0_LowCH23035-701.5



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

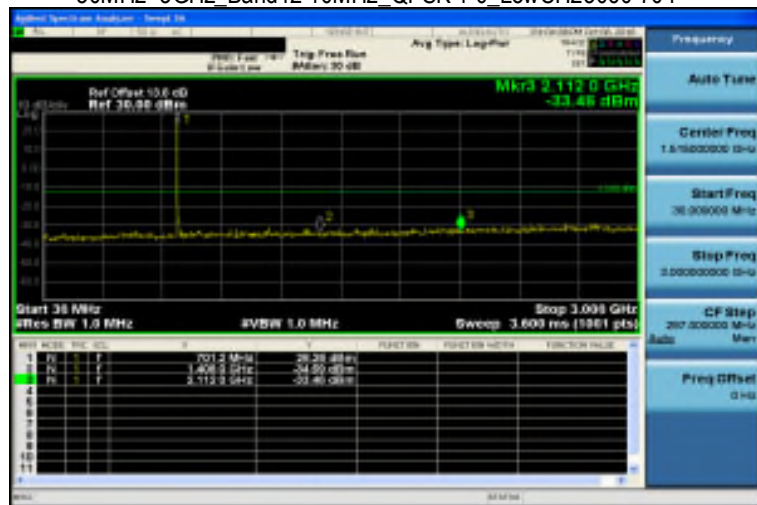


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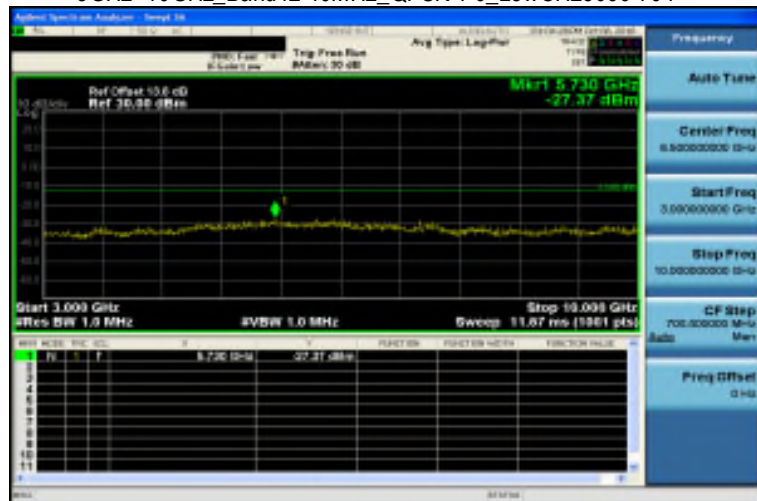
30MHz~3GHz_Band12 10MHz_QPSK 1 0_LowCH23060-704



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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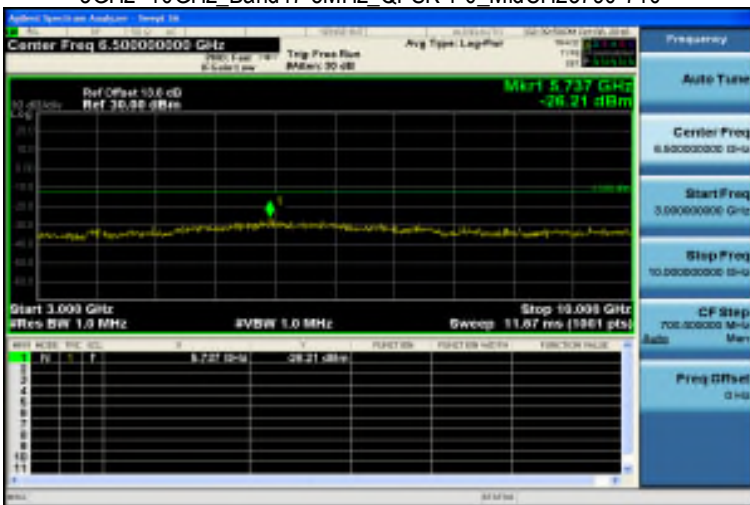
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30MHz~3GHz_Band17 5MHz_QPSK 1 0_LowCH23755-706.5



3GHz~10GHz_Band17 5MHz_QPSK 1 0_MidCH23790-710



3GHz~10GHz_Band17 5MHz_QPSK 1 0_LowCH23755-706.5



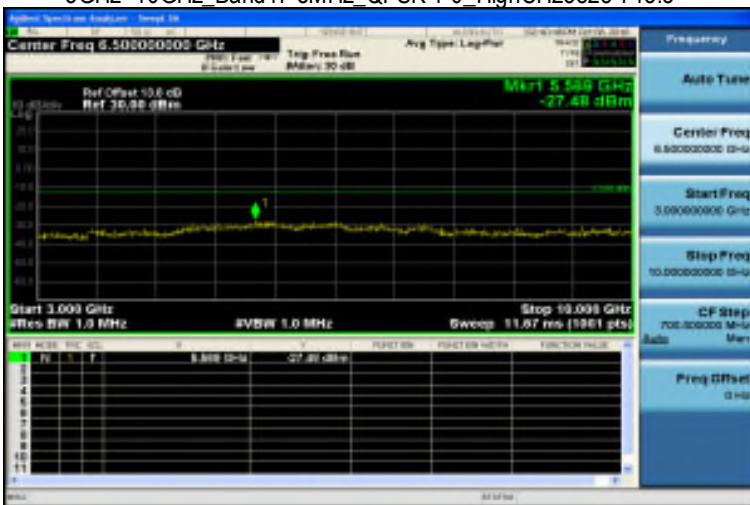
30MHz~3GHz_Band17 5MHz_QPSK 1 0_HighCH23825-713.5



30MHz~3GHz_Band17 5MHz_QPSK 1 0_MidCH23790-710



3GHz~10GHz_Band17 5MHz_QPSK 1 0_HighCH23825-713.5



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30MHz~3GHz_Band17 10MHz_QPSK 1 0_LowCH23780-709



3GHz~10GHz_Band17 10MHz_QPSK 1 0_MidCH23790-710



3GHz~10GHz_Band17 10MHz_QPSK 1 0_LowCH23780-709



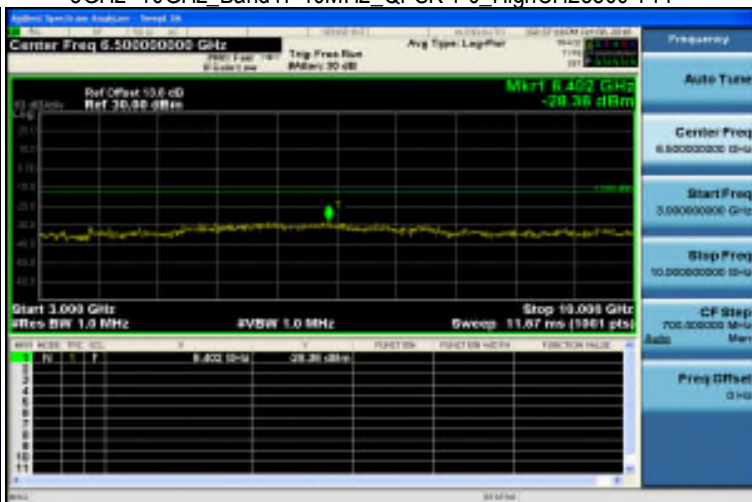
30MHz~3GHz_Band17 10MHz_QPSK 1 0_HighCH23800-711



30MHz~3GHz_Band17 10MHz_QPSK 1 0_MidCH23790-710



3GHz~10GHz_Band17 10MHz_QPSK 1 0_HighCH23800-711



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , §27.53(g)(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).

FCC §27.53 (m) (4) shall not be less than $55 + 10 \log$ (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

§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.

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	$43 + 10 \log_{10}(p)^{\text{Note}}$
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	$43 + 10 \log_{10}(p)^{\text{Note}}$
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

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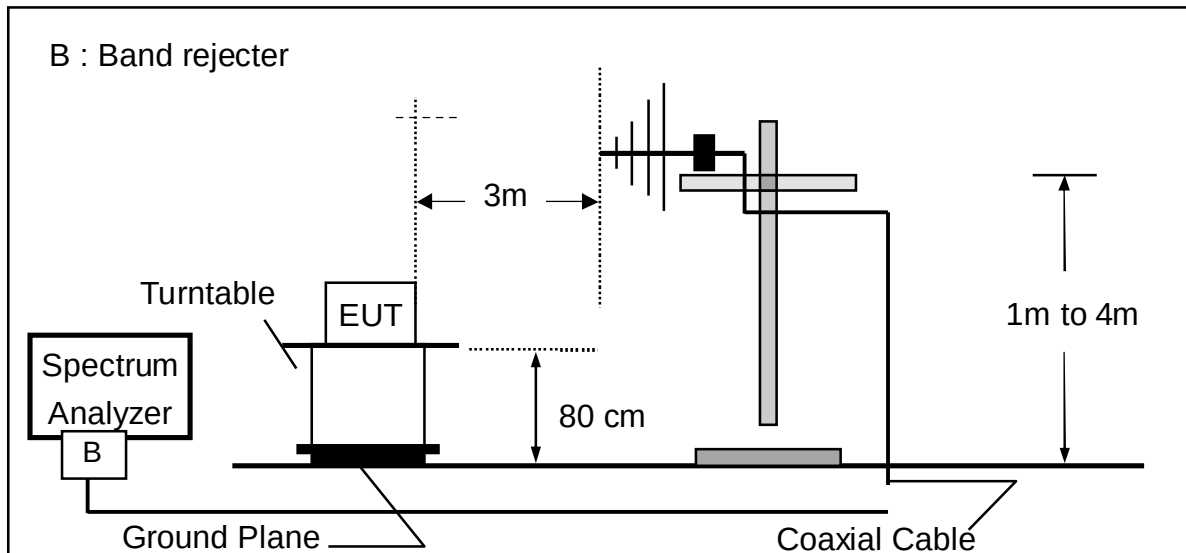
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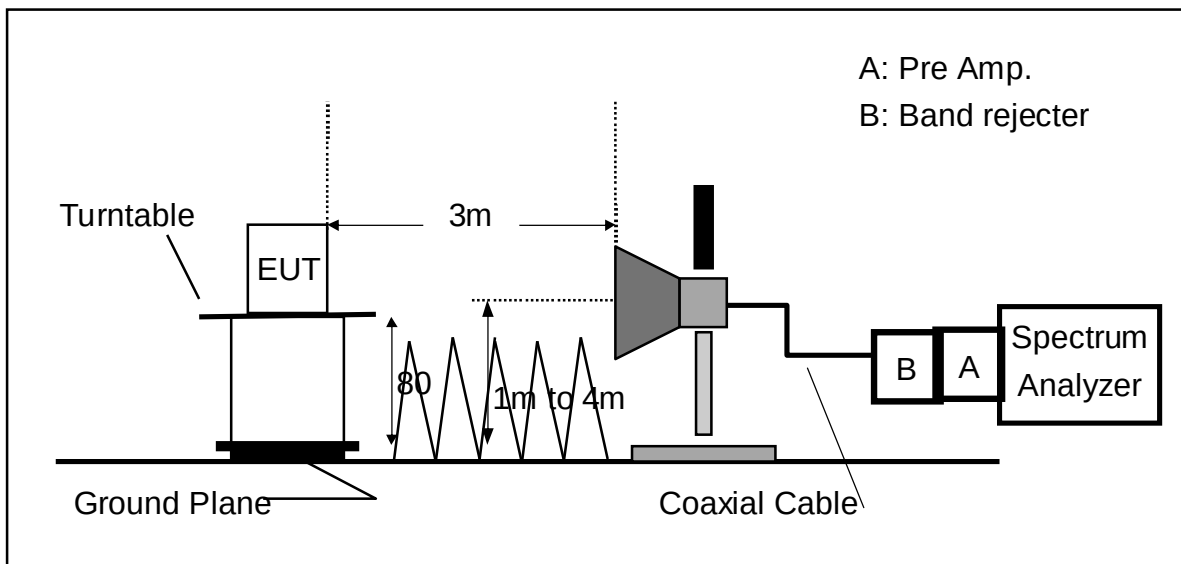
Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 5.2 for the permitted frequency ranges for various equipment types.

10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3. 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.

$ERP \text{ (dBm)} = SG \text{ Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$

$EIRP \text{ (dBm)} = SG \text{ Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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10.4. Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Bi-log Antenna	SCHWAZBECK	VULB9168	300	12/12/2015	12/11/2016
Horn Antenna	SCHWAZBECK	BBHA9120D	1441	08/10/2015	08/09/2016
Horn Antenna	SCHWAZBECK	BBHA9170	185	07/18/2016	07/17/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016
Signal Generator	Agilent	E4438C	MY45093613	07/07/2016	07/06/2017
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017
Filter 1800-2000	Micro-Tronics	EWT	M1	01/02/2016	01/01/2017
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2016	01/01/2017
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2016	01/01/2017

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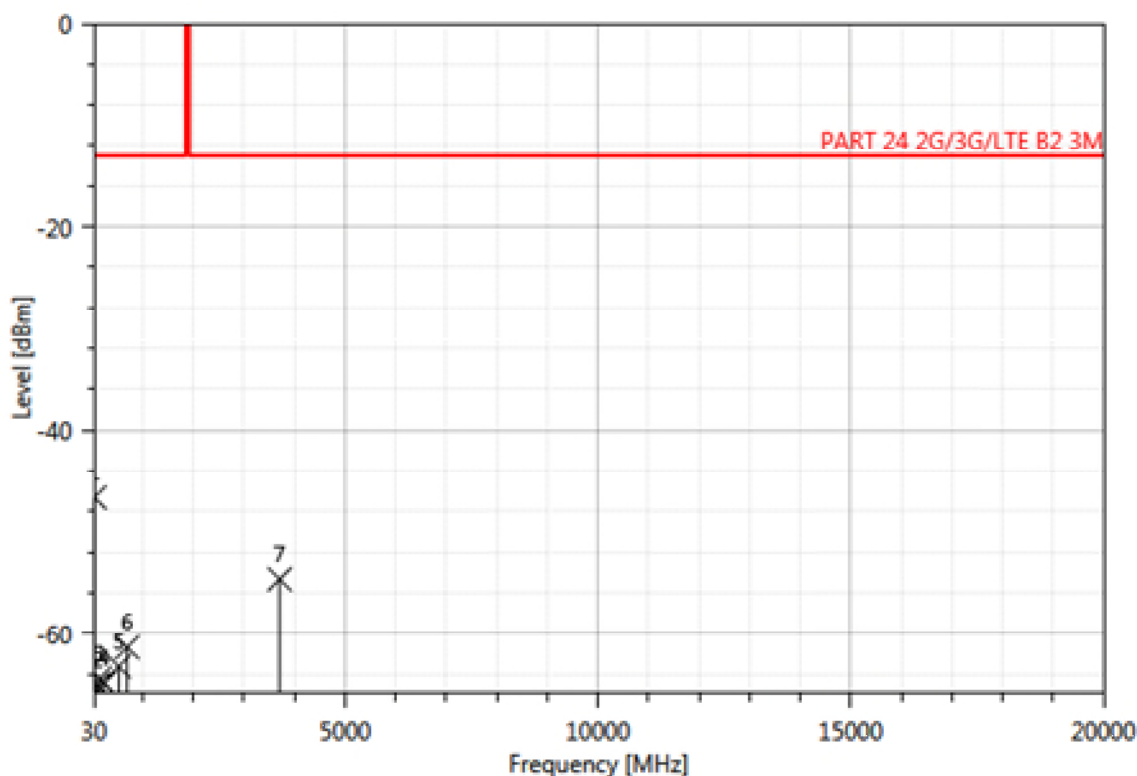
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Mode :	WCDMA B2	Test Date :	10/07/2016
Fundamental Frequency :	1852.4 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	dB
		QP/AV/PK	dBm	dBm	dBi	dB	dBm	
39.70	S	Peak	-46.60	-34.65	-10.96	-0.99	-13.00	-33.60
102.75	S	Peak	-65.09	-64.11	0.28	-1.26	-13.00	-52.09
144.46	S	Peak	-64.42	-62.73	-0.28	-1.41	-13.00	-51.42
228.85	S	Peak	-64.91	-68.48	5.29	-1.72	-13.00	-51.91
521.79	S	Peak	-63.24	-66.72	5.89	-2.41	-13.00	-50.24
689.60	S	Peak	-61.36	-63.81	5.24	-2.79	-13.00	-48.36
3704.80	H	Peak	-54.63	-60.49	12.44	-6.58	-13.00	-41.63

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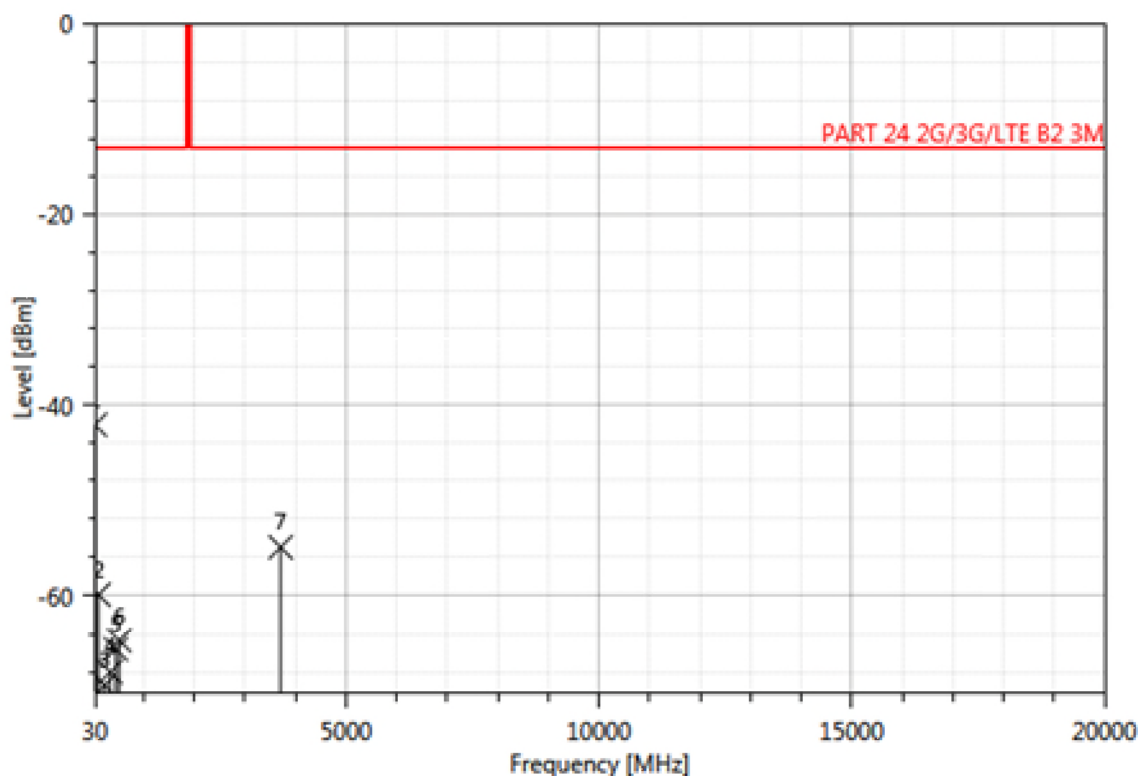
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Operation Mode : WCDMA B2 Test Date : 10/07/2016
Fundamental Frequency : 1852.4 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH LOW Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
32.91	S	Peak	-42.07	-29.16	-11.94	-0.97	-13.00	-29.07
102.75	S	Peak	-59.85	-58.87	0.28	-1.26	-13.00	-46.85
224.00	S	Peak	-69.38	-73.06	5.39	-1.71	-13.00	-56.38
335.55	S	Peak	-67.98	-71.99	5.95	-1.93	-13.00	-54.98
444.19	S	Peak	-65.60	-69.23	5.81	-2.18	-13.00	-52.60
513.06	S	Peak	-64.68	-68.26	5.94	-2.35	-13.00	-51.68
3704.80	H	Peak	-54.92	-60.78	12.44	-6.58	-13.00	-41.92

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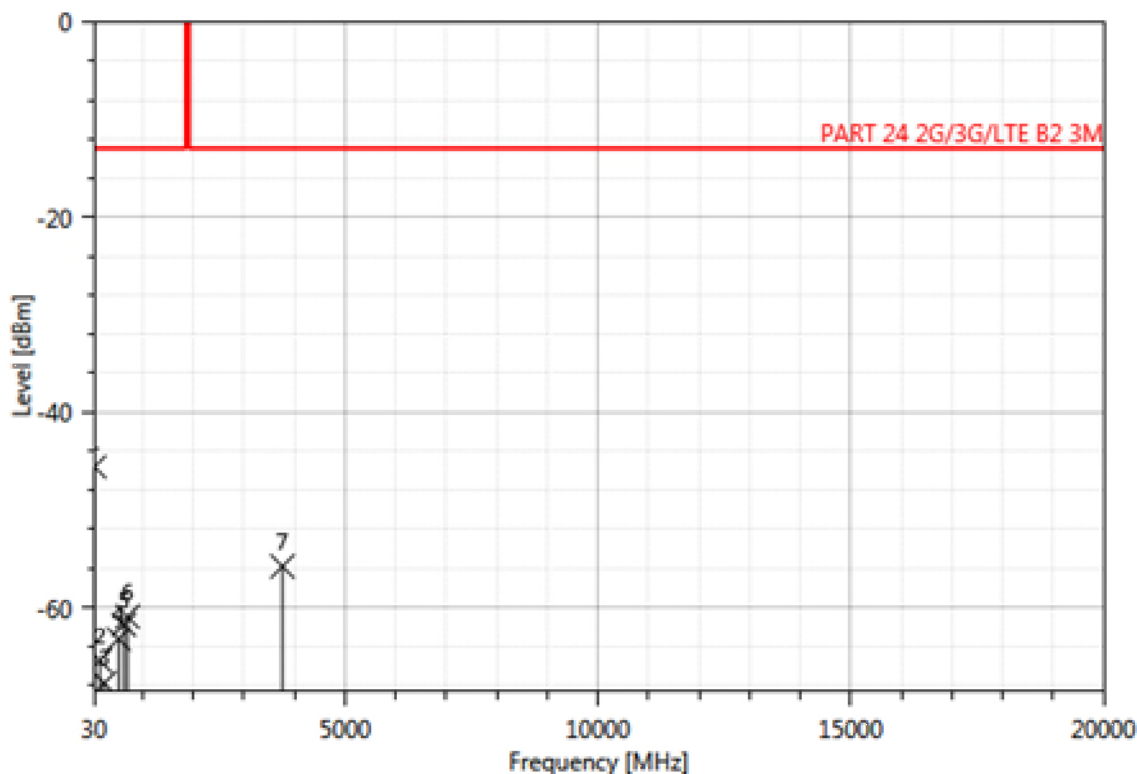
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Operation Mode :	WCDMA B2	Test Date :	10/07/2016
Fundamental Frequency :	1880 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
36.79	S	Peak	-45.62	-33.37	-11.28	-0.98	-13.00	-32.62
149.31	S	Peak	-65.42	-64.00	0.01	-1.43	-13.00	-52.42
233.70	S	Peak	-67.74	-71.34	5.33	-1.73	-13.00	-54.74
519.85	S	Peak	-63.20	-66.71	5.90	-2.39	-13.00	-50.20
624.61	S	Peak	-61.74	-64.57	5.34	-2.51	-13.00	-48.74
696.39	S	Peak	-60.88	-63.20	5.24	-2.91	-13.00	-47.88
3760.00	H	Peak	-55.76	-61.62	12.45	-6.60	-13.00	-42.76

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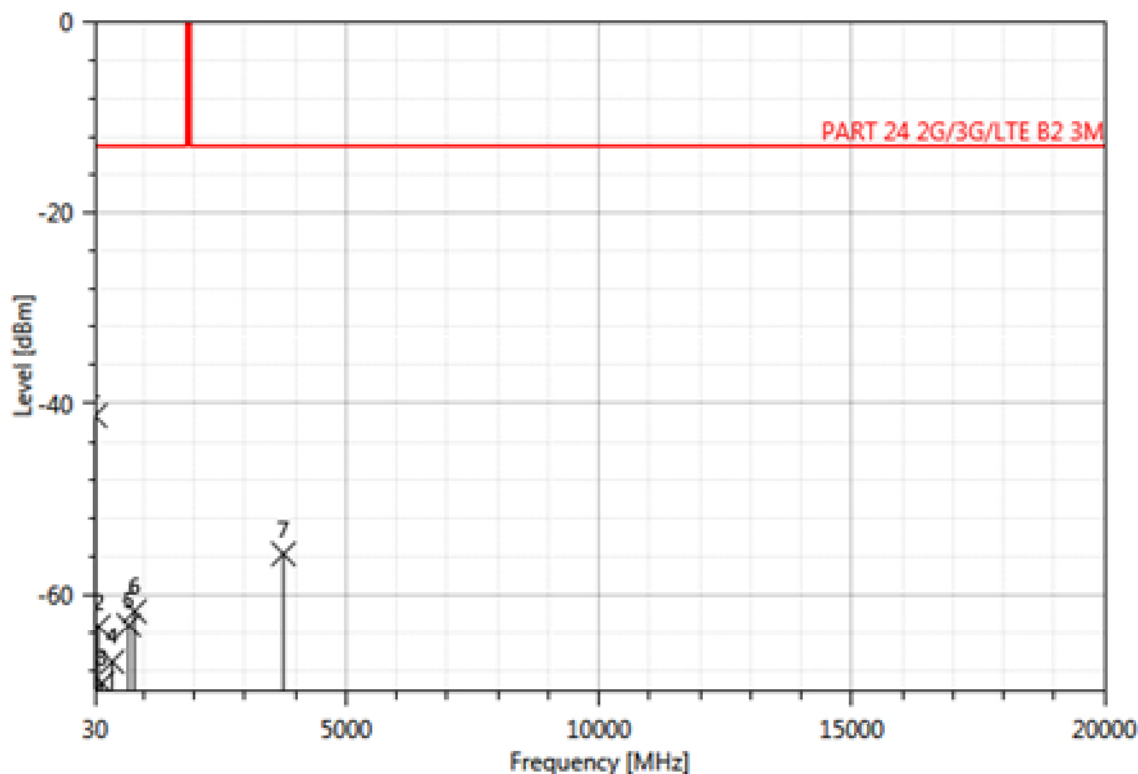
t (886-2) 2299-3279

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Operation Mode : WCDMA B2 Test Date : 10/07/2016
Fundamental Frequency : 1880 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH MID Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
32.91	S	Peak	-41.27	-28.37	-11.94	-0.97	-13.00	-28.27
100.81	S	Peak	-63.29	-62.50	0.46	-1.25	-13.00	-50.29
170.65	S	Peak	-69.27	-69.11	1.36	-1.52	-13.00	-56.27
372.41	S	Peak	-67.02	-70.80	5.99	-2.21	-13.00	-54.02
699.30	S	Peak	-63.17	-65.43	5.23	-2.96	-13.00	-50.17
813.76	S	Peak	-61.68	-64.26	5.47	-2.89	-13.00	-48.68
3760.00	H	Peak	-55.74	-61.59	12.45	-6.60	-13.00	-42.74

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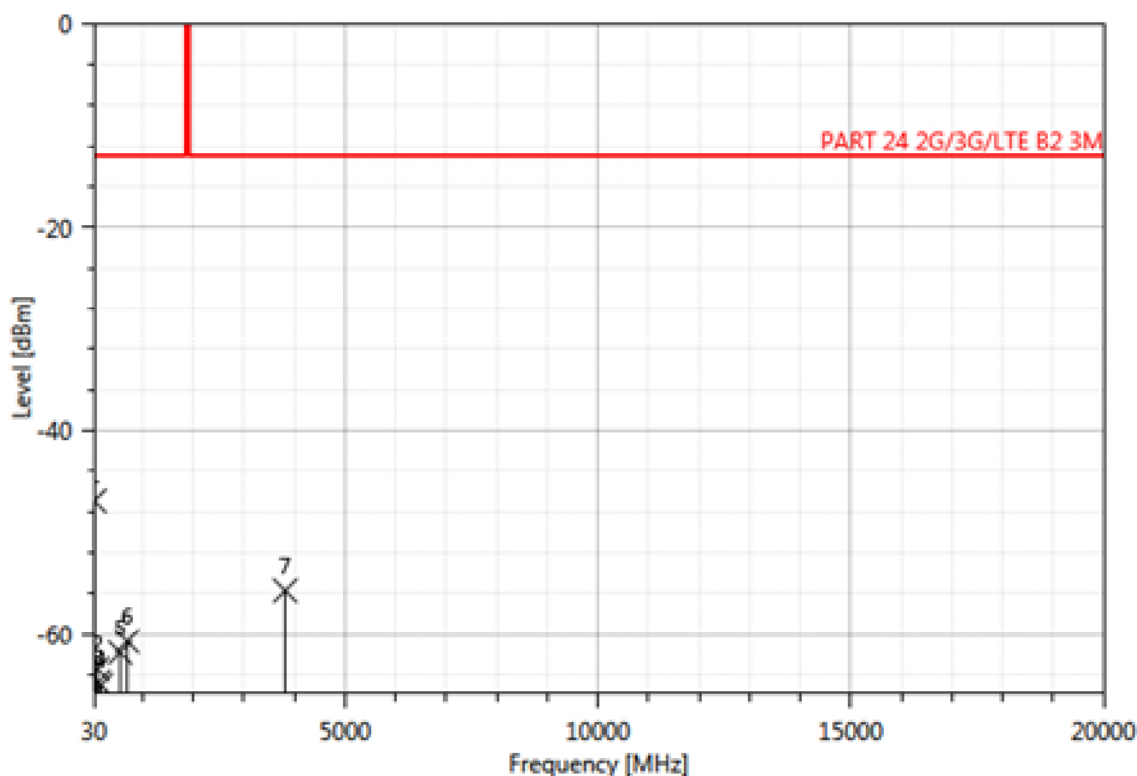
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Operation Mode : WCDMA B2 Test Date : 10/07/2016
Fundamental Frequency : 1907.6 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	dB
		QP/AV/PK	dBm	dBm	dBi	dB	dBm	
39.70	S	Peak	-46.98	-35.03	-10.96	-0.99	-13.00	-33.98
97.90	S	Peak	-63.42	-62.95	0.77	-1.24	-13.00	-50.42
115.36	S	Peak	-64.72	-63.10	-0.31	-1.31	-13.00	-51.72
167.74	S	Peak	-65.04	-64.61	1.08	-1.51	-13.00	-52.04
550.89	S	Peak	-61.83	-64.85	5.73	-2.71	-13.00	-48.83
687.66	S	Peak	-60.71	-63.20	5.25	-2.76	-13.00	-47.71
3815.20	H	Peak	-55.71	-61.54	12.46	-6.63	-13.00	-42.71

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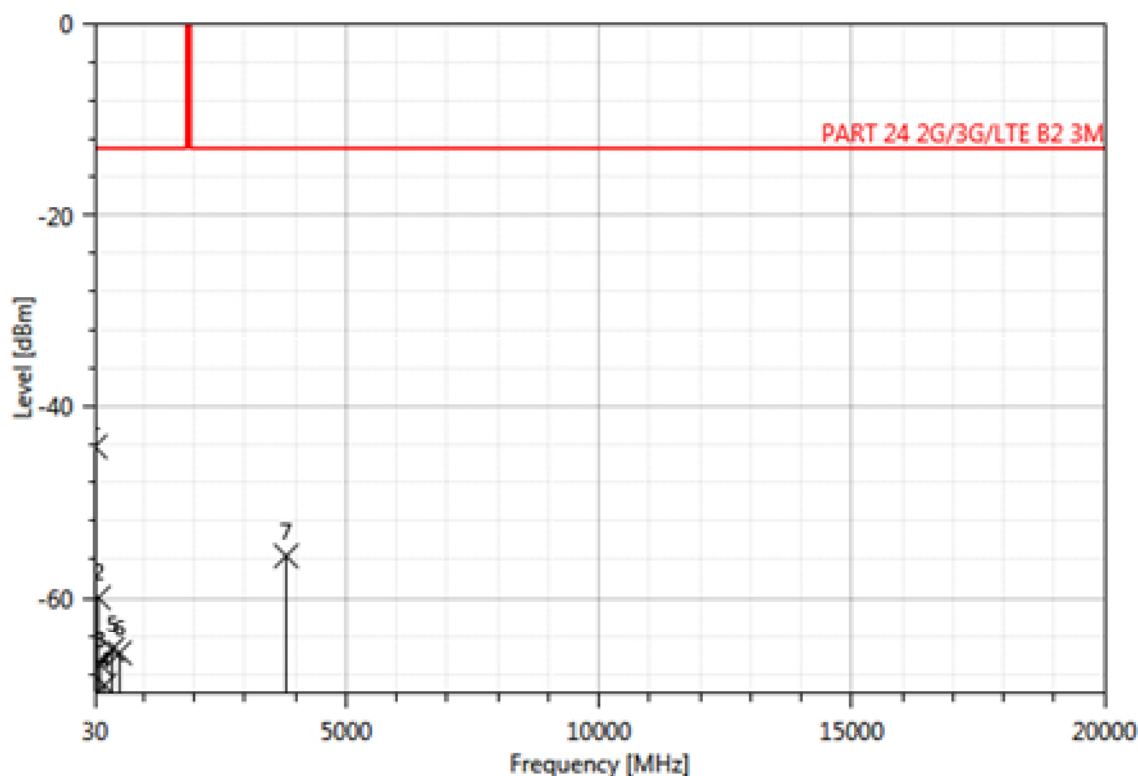
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Operation Mode : WCDMA B2 Test Date : 10/07/2016
Fundamental Frequency : 1907.6 MHz Temp. / Humi. : 21 deg_C / 62 RH
Operation Band : Tx CH HIGH Test Engineer : Tin
EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
32.91	S	Peak	-44.19	-31.28	-11.94	-0.97	-13.00	-31.19
100.81	S	Peak	-59.91	-59.12	0.46	-1.25	-13.00	-46.91
139.61	S	Peak	-66.93	-65.00	-0.55	-1.39	-13.00	-53.93
221.09	S	Peak	-69.11	-72.85	5.45	-1.71	-13.00	-56.11
371.44	S	Peak	-65.38	-69.17	5.99	-2.21	-13.00	-52.38
519.85	S	Peak	-65.75	-69.25	5.90	-2.39	-13.00	-52.75
3815.20	H	Peak	-55.61	-61.44	12.46	-6.63	-13.00	-42.61

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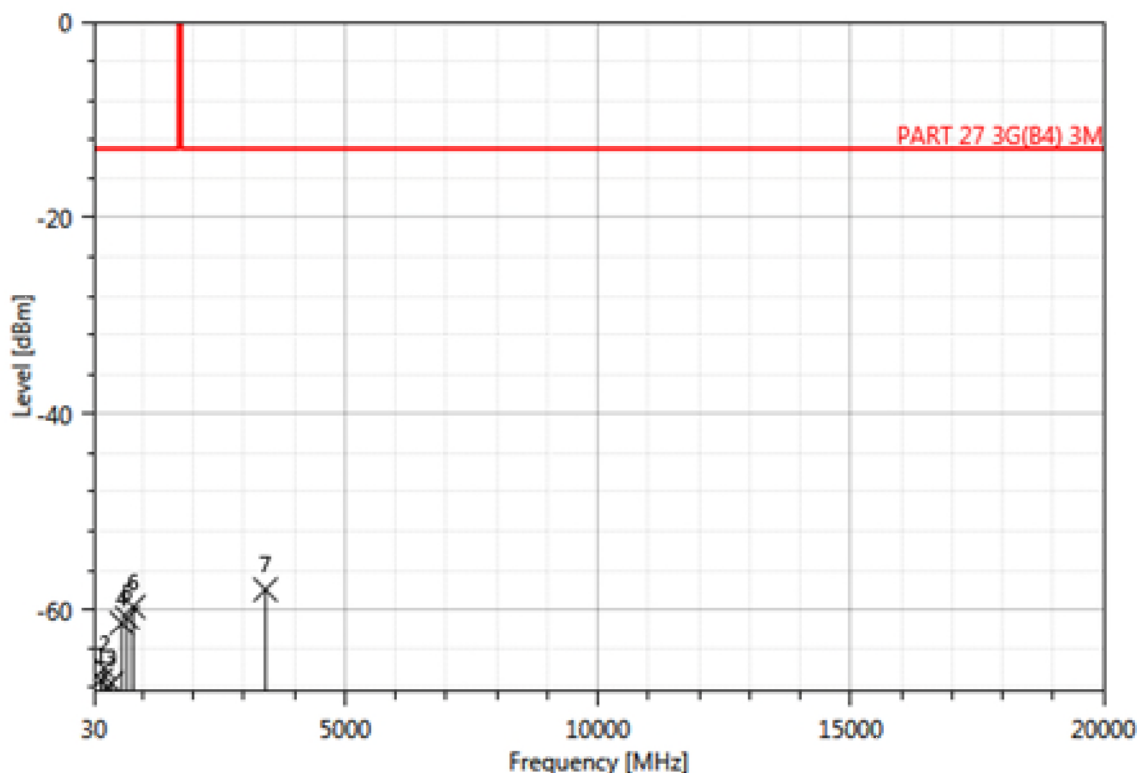
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Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Operation Mode :	WCDMA B4	Test Date :	10/07/2016
Fundamental Frequency :	1712.4 MHz	Temp. / Humi. :	22 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



Freq.	Note	Decetor	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	Mode	Level	Level	Gain	Loss	@3m	
		QP/AV/PK	dBm	dBm	dBi	dB	dBm	dB
167.74	S	Peak	-67.25	-66.82	1.08	-1.51	-13.00	-54.25
236.61	S	Peak	-66.07	-69.71	5.38	-1.73	-13.00	-53.07
379.20	S	Peak	-67.57	-71.30	5.99	-2.26	-13.00	-54.57
584.84	S	Peak	-61.38	-64.09	5.49	-2.79	-13.00	-48.38
691.54	S	Peak	-60.84	-63.26	5.24	-2.83	-13.00	-47.84
807.94	S	Peak	-59.71	-62.29	5.48	-2.89	-13.00	-46.71
3424.80	H	Peak	-57.95	-63.99	12.27	-6.23	-13.00	-44.95

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