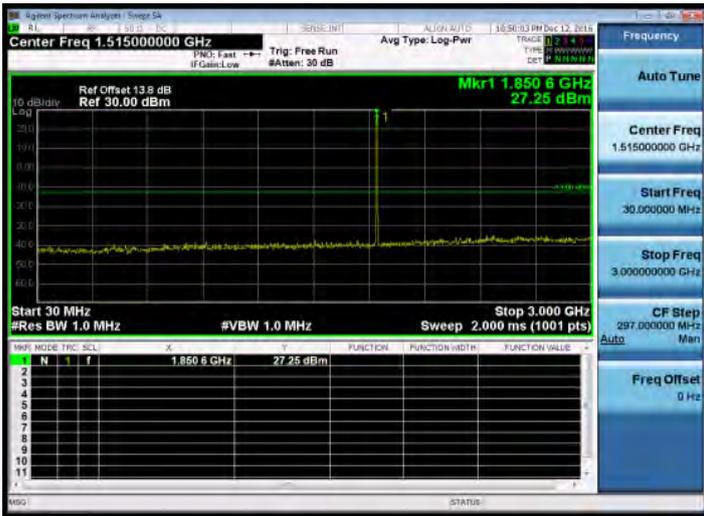
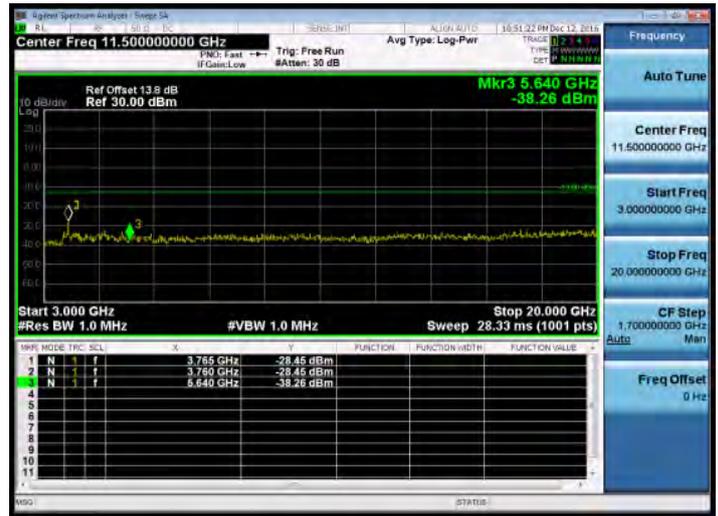


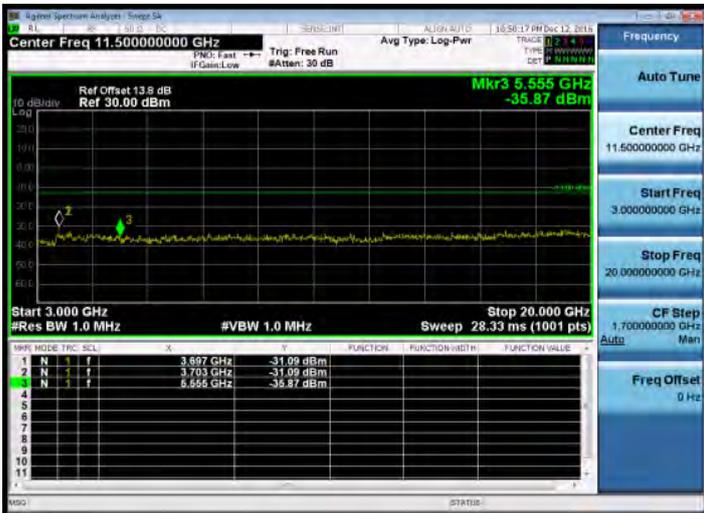
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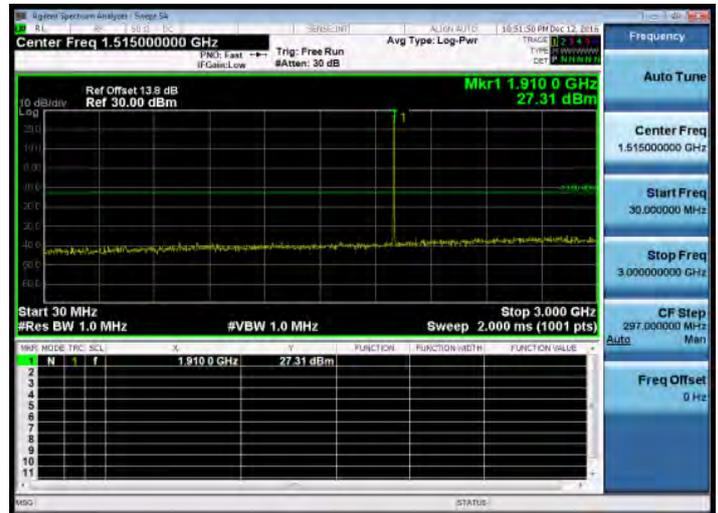
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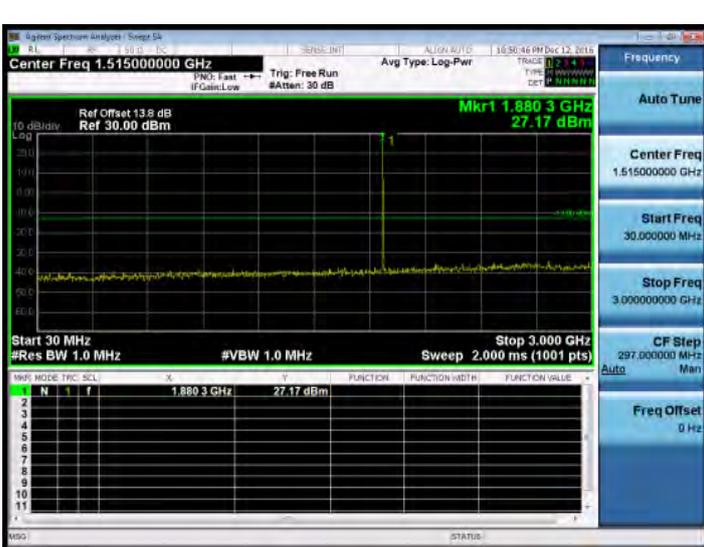
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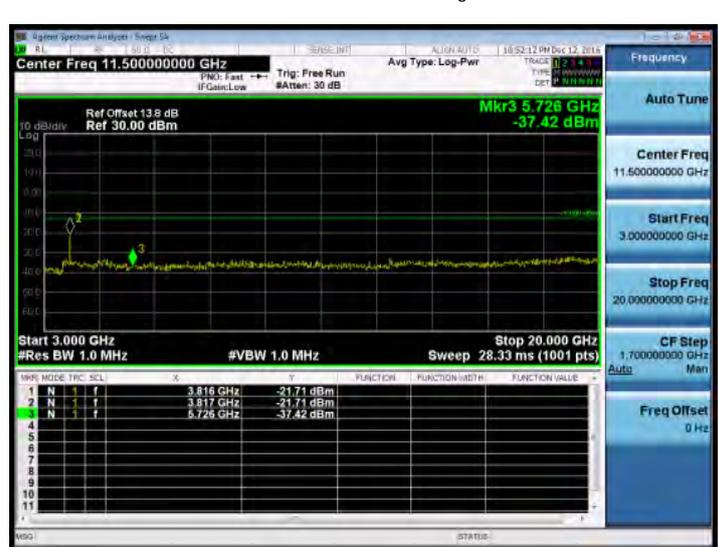
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3GHz-10GHz\_Band2\_3MHz\_OPSK\_1\_0\_HighCH19185-1908.5



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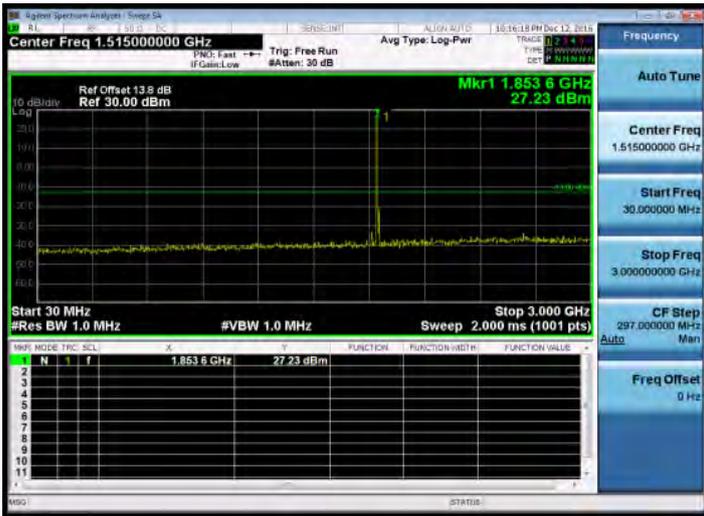
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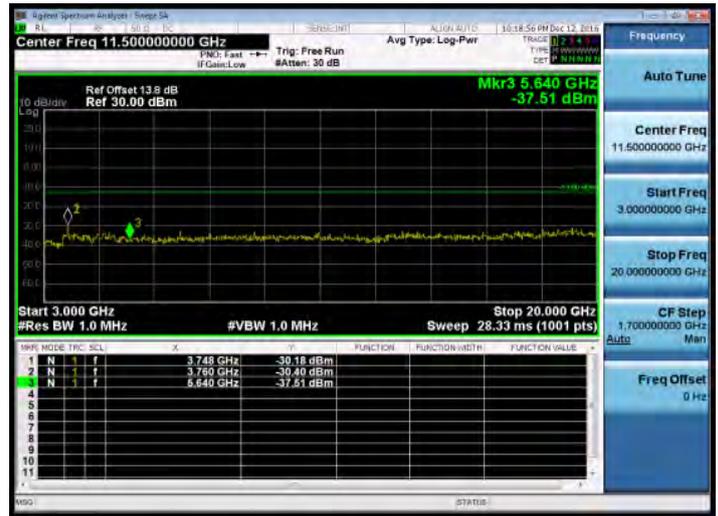
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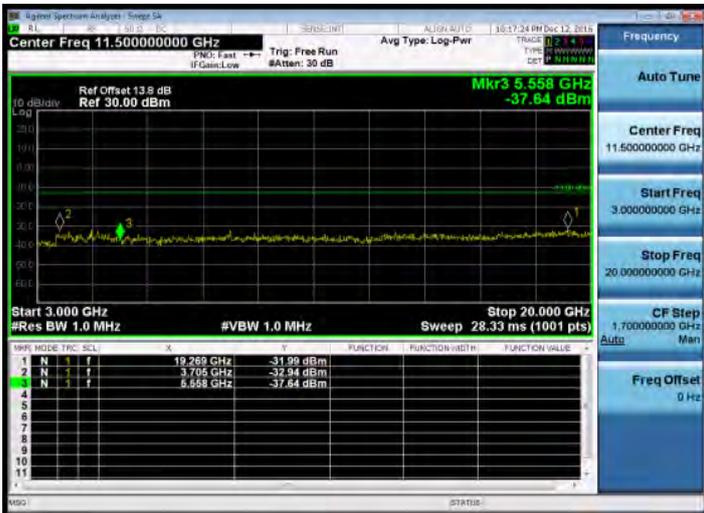
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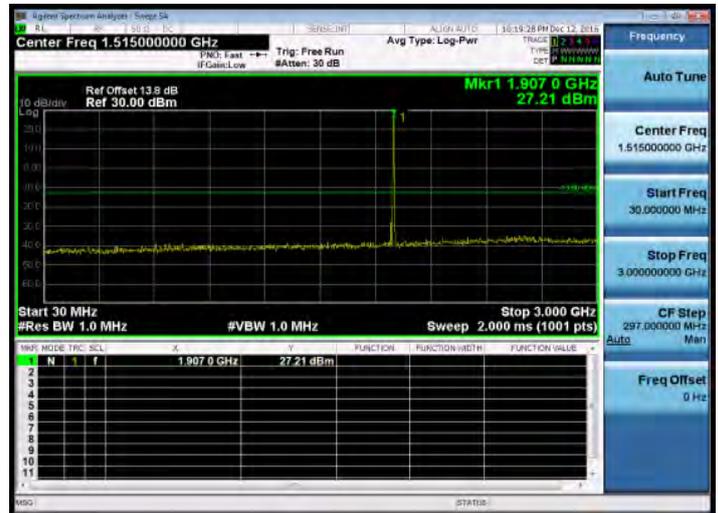
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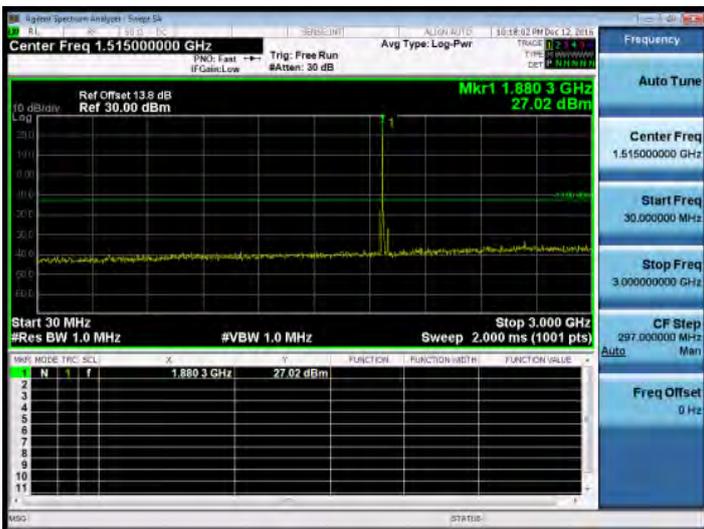
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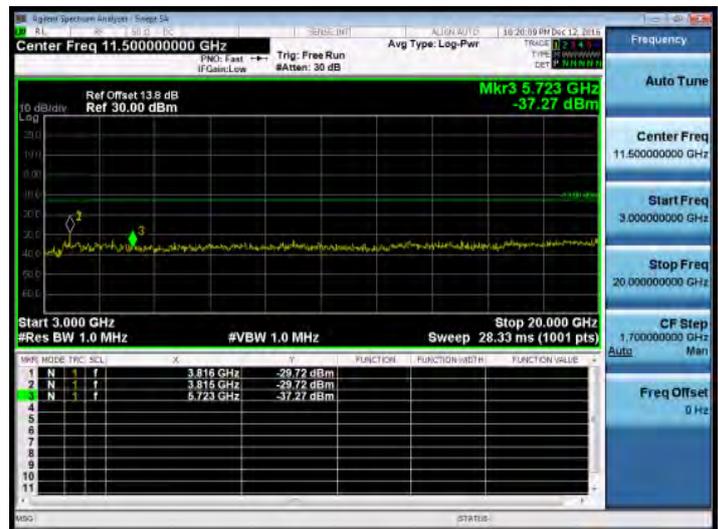
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3GHz~10GHz\_Band2\_5MHz\_OPSK\_1\_0\_HighCH19175-1907.5



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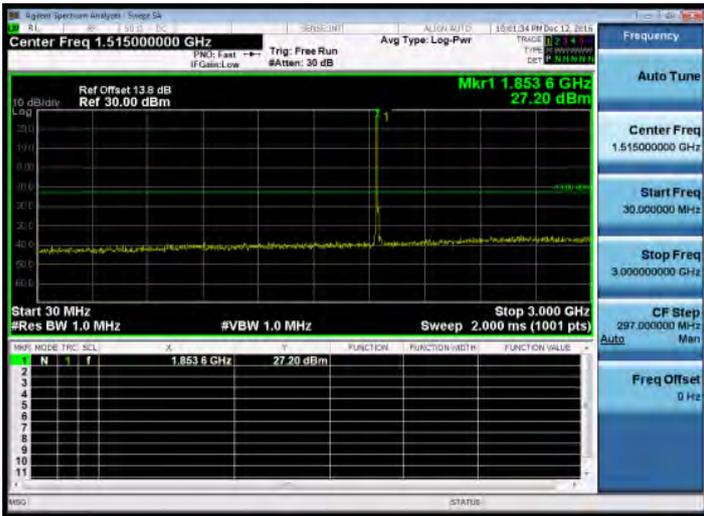
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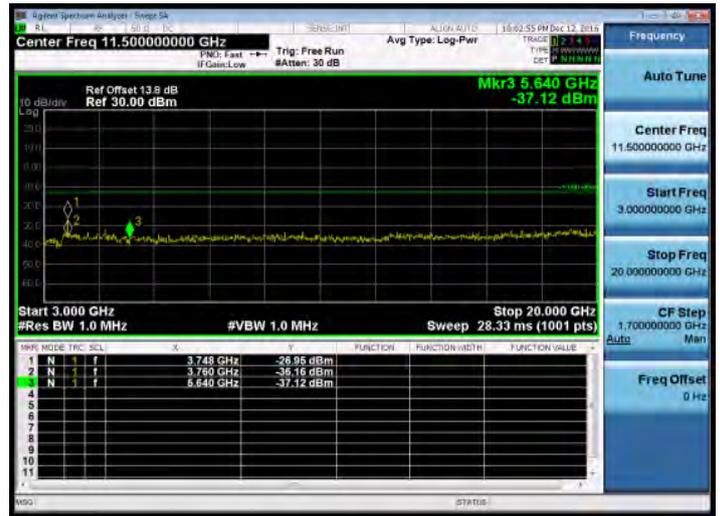
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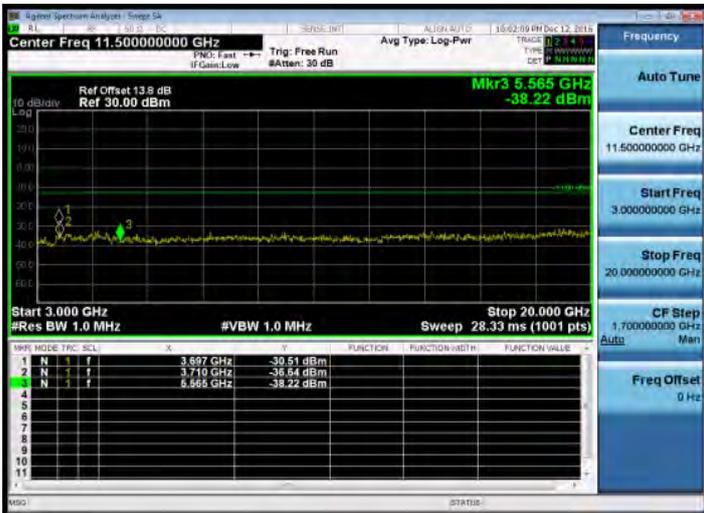
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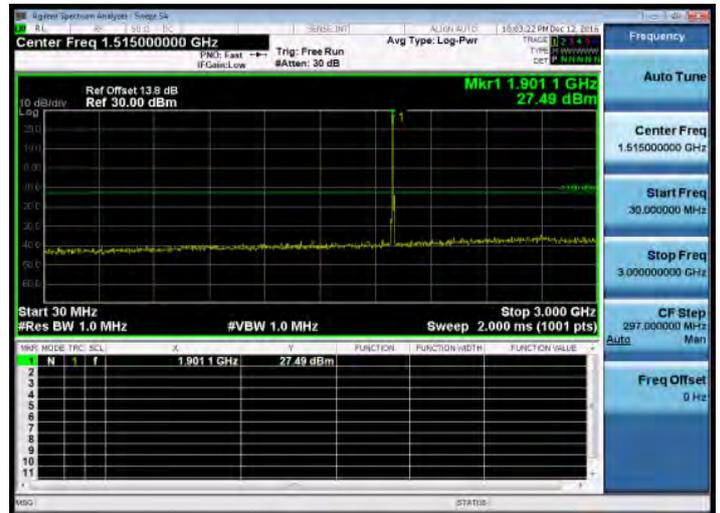
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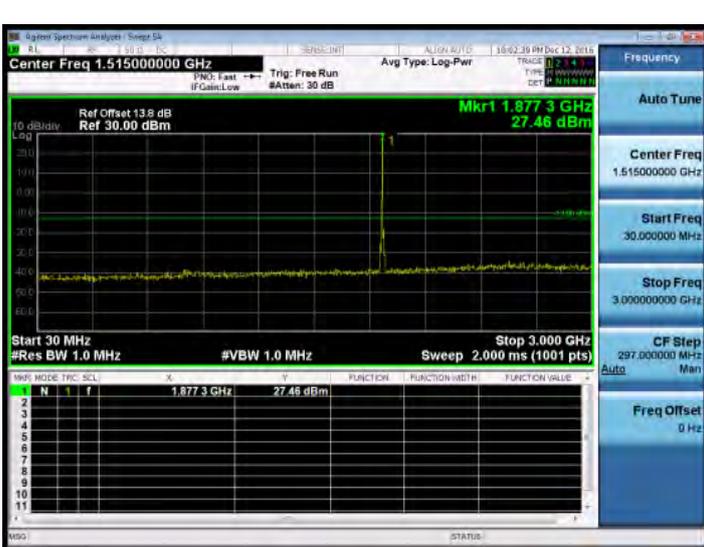
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30MHz-3GHz\_Band2\_10MHz\_QPSK\_1\_0\_HighCH19150-1905



30MHz-3GHz\_Band2\_10MHz\_QPSK\_1\_0\_MidCH18900-1880



3GHz-10GHz\_Band2\_10MHz\_QPSK\_1\_0\_HighCH19150-1905



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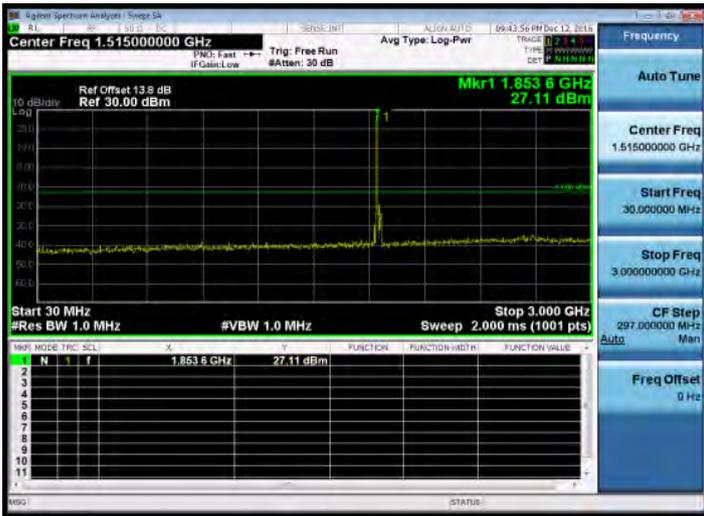
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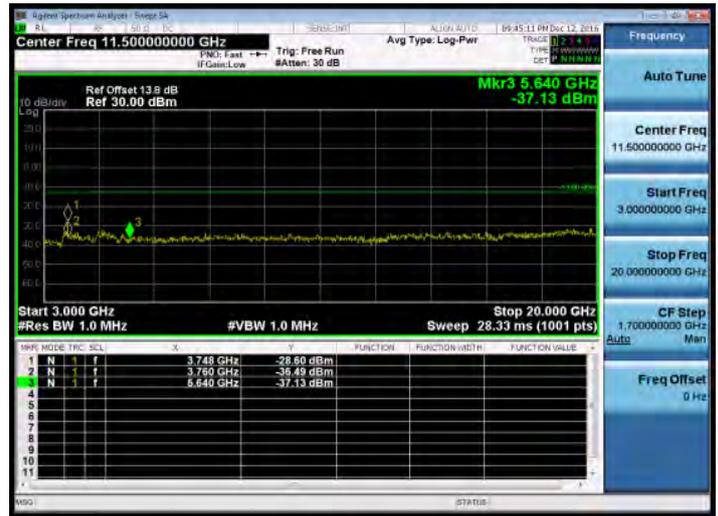
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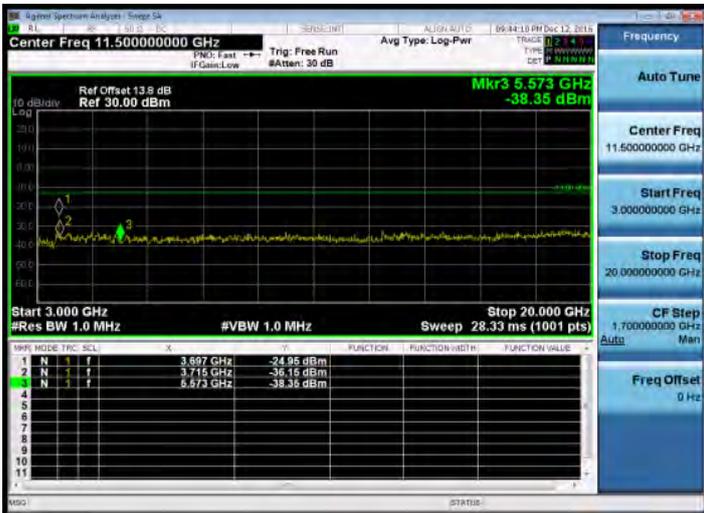
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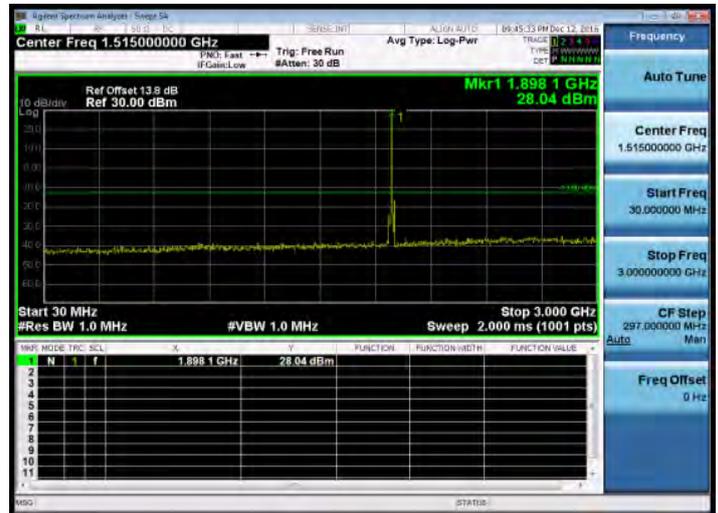
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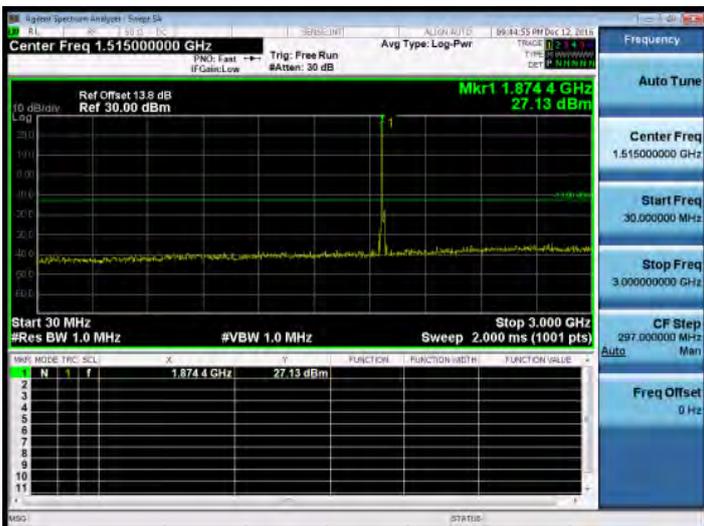
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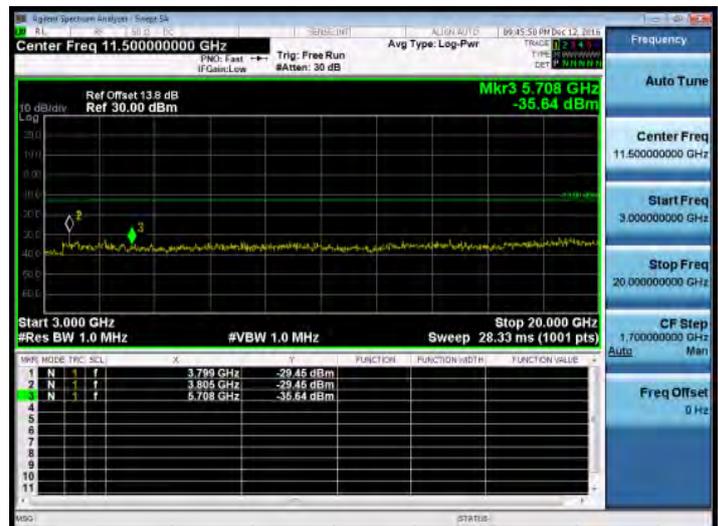
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30MHz-3GHz\_Band2\_15MHz\_QPSK\_1\_0\_MidCH18900-1880



3GHz-10GHz\_Band2\_15MHz\_QPSK\_1\_0\_HighCH19125-1902.5



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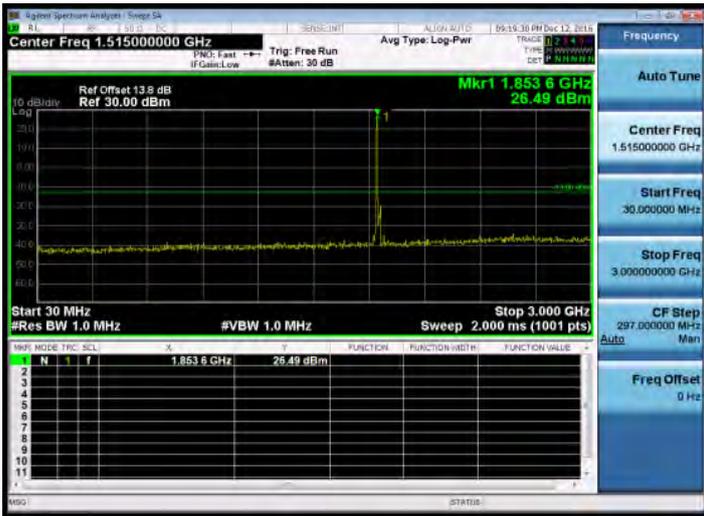
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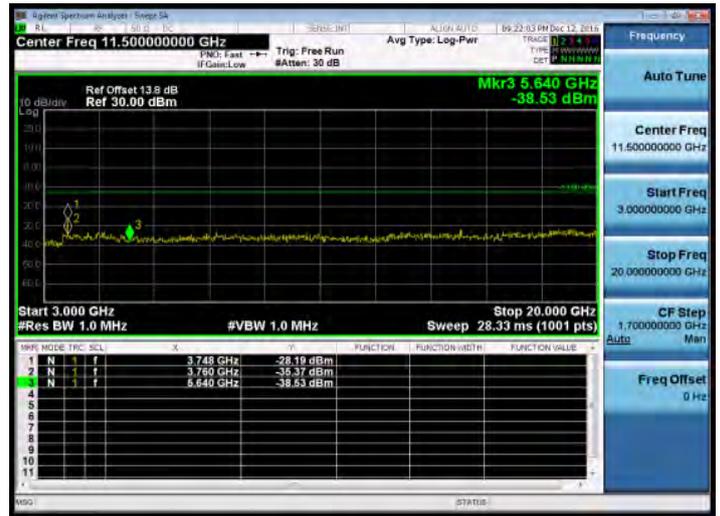
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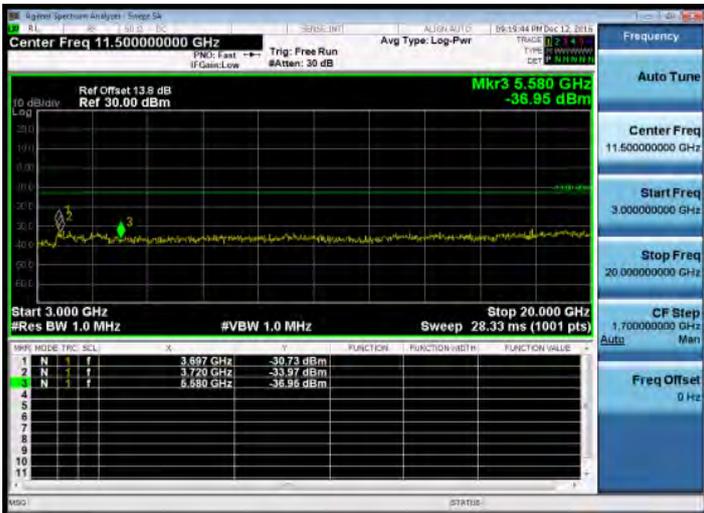
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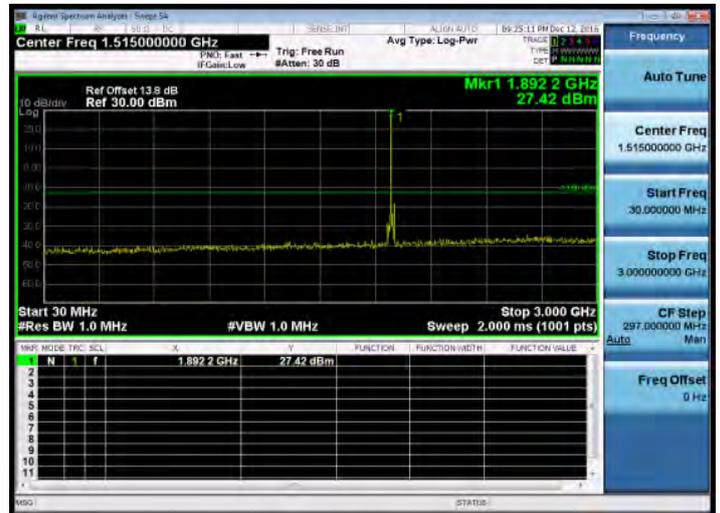
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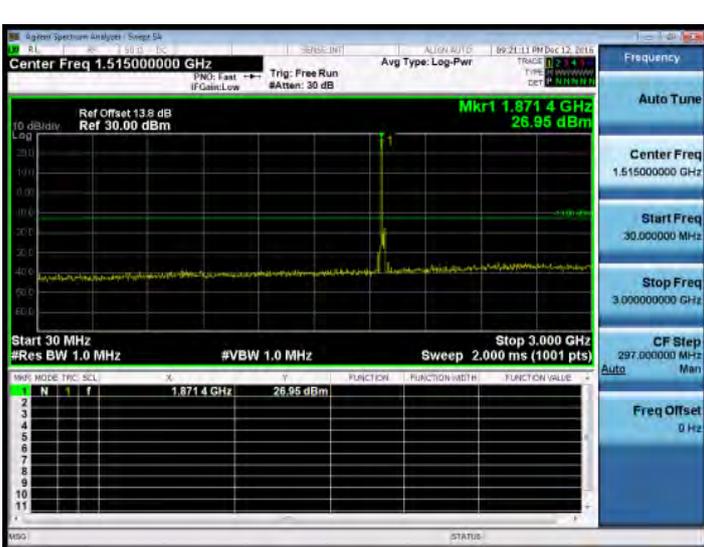
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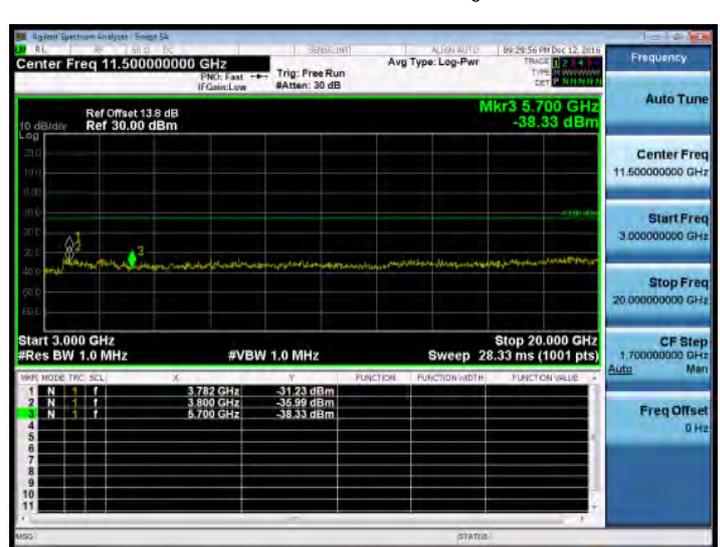
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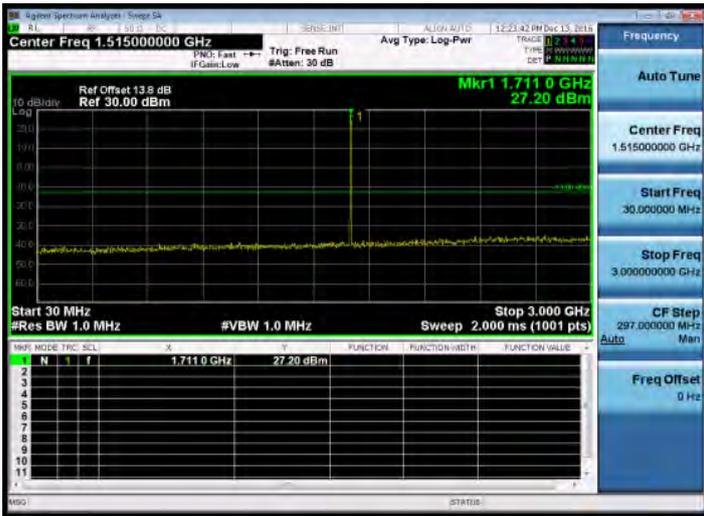
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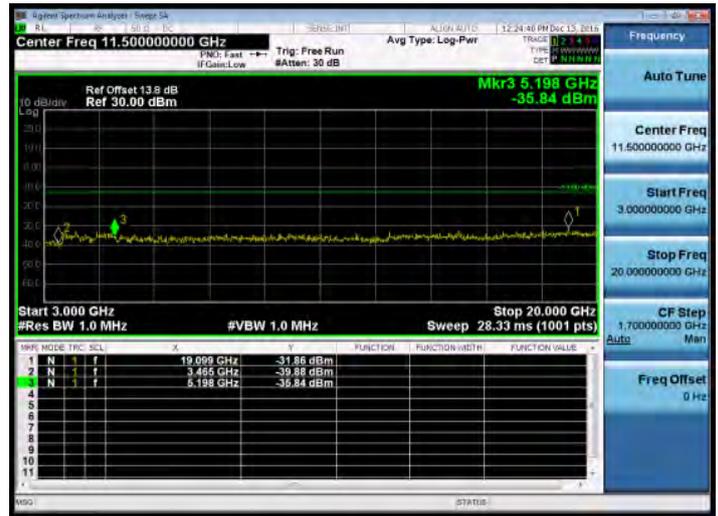
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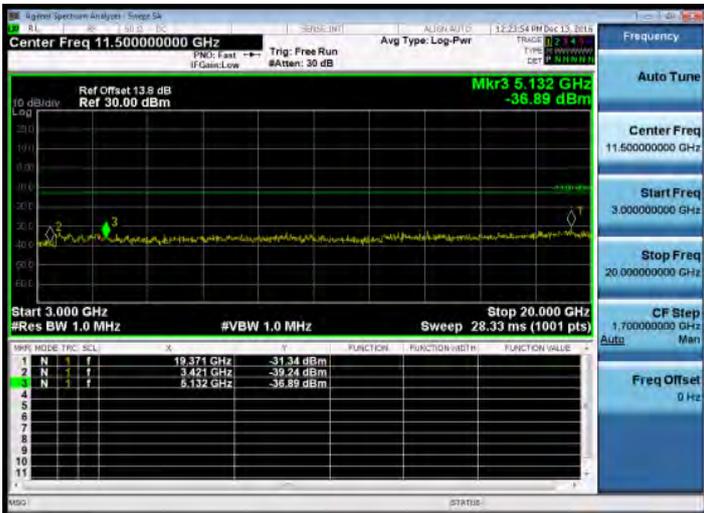
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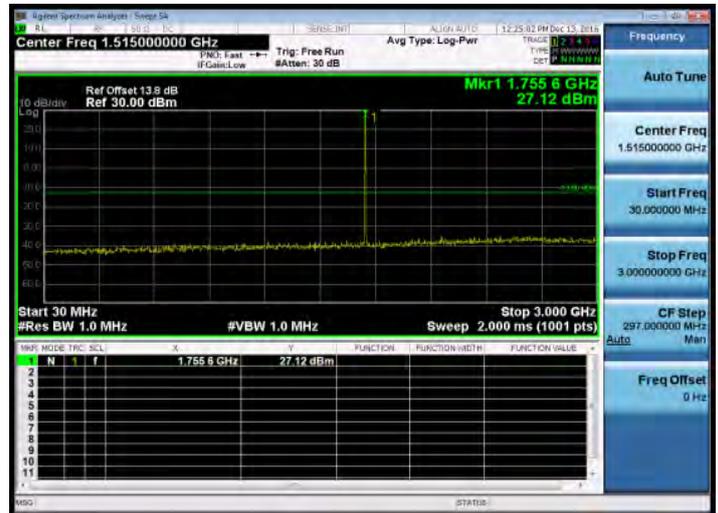
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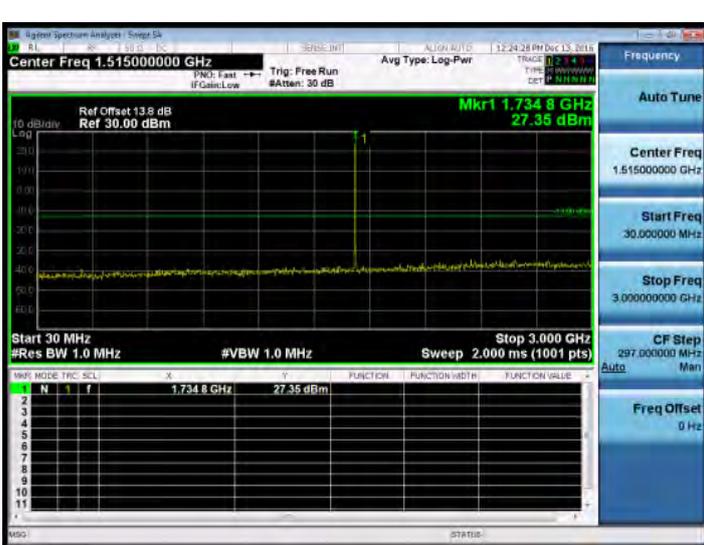
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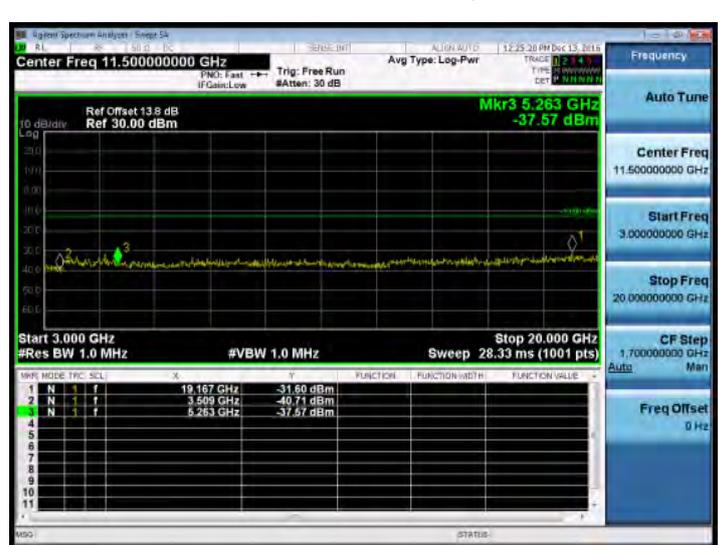
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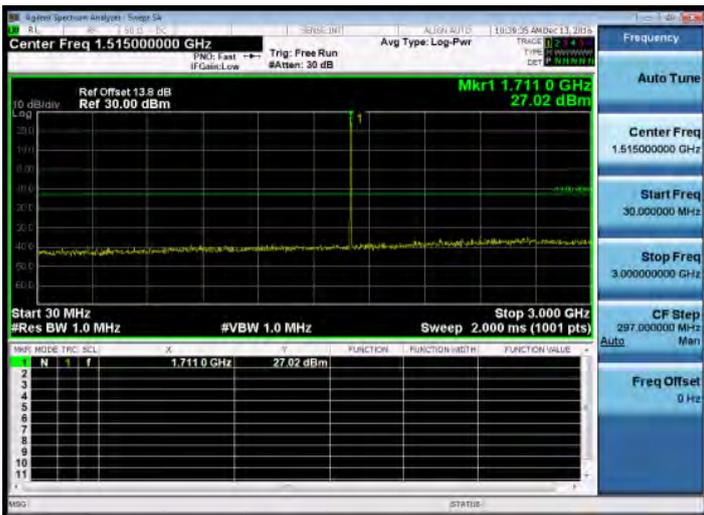
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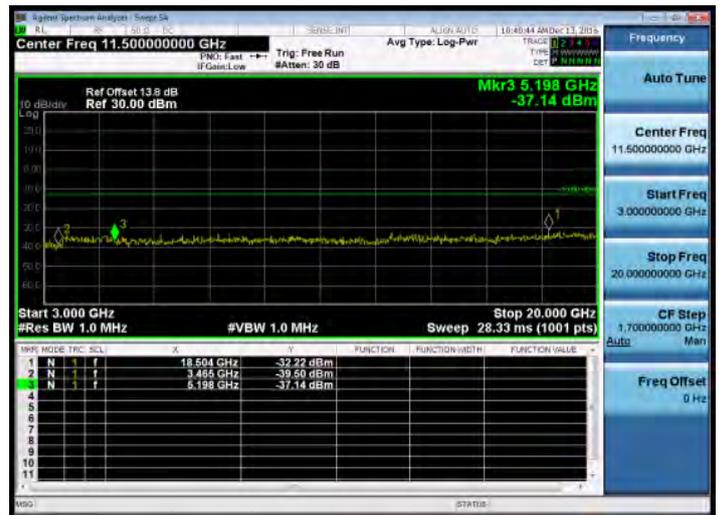
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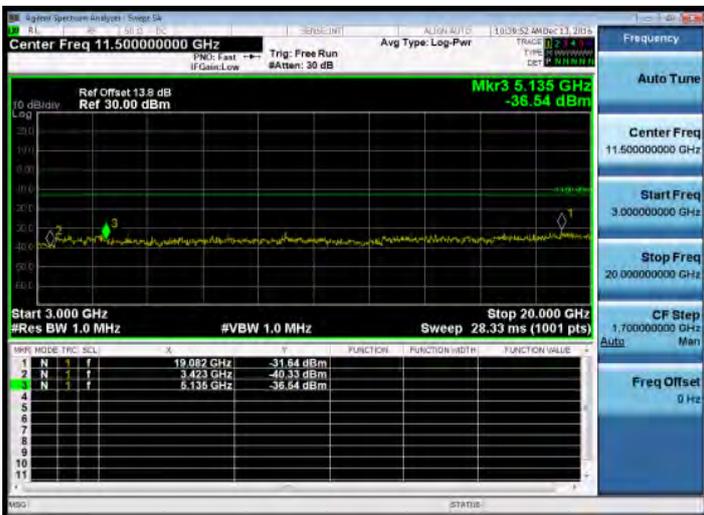
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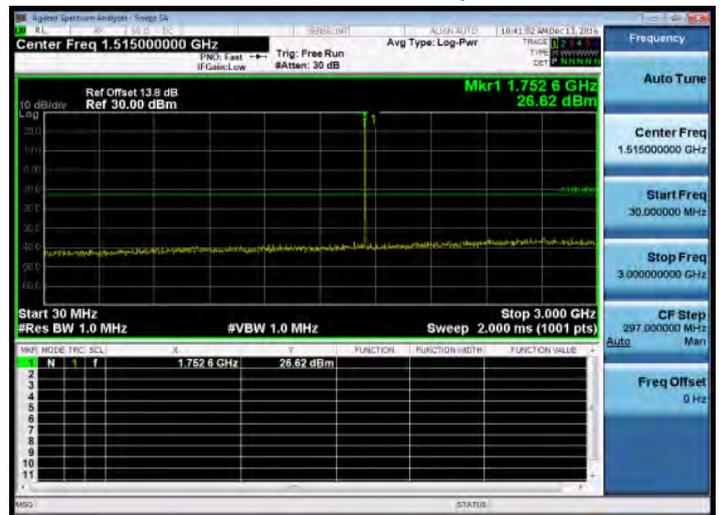
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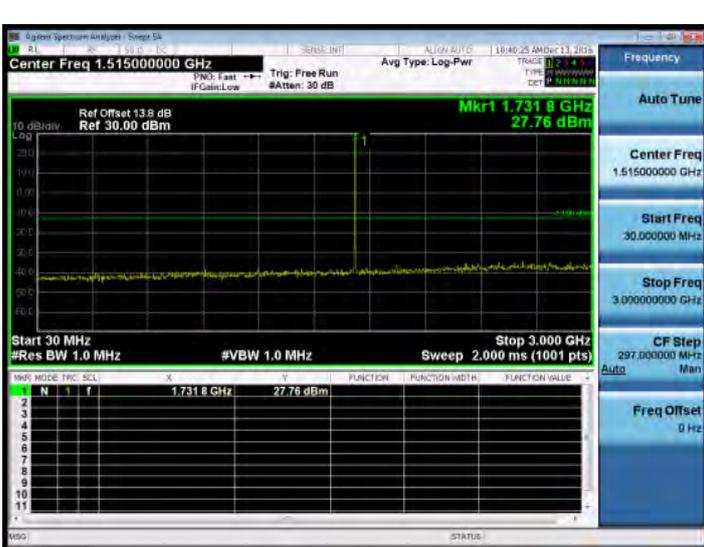
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30MHz-3GHz\_Band4\_3MHz\_OPSK\_1\_0\_HighCH20385-1753.5



30MHz-3GHz\_Band4\_3MHz\_OPSK\_1\_0\_MidCH20175-1732.5



3GHz-10GHz\_Band4\_3MHz\_OPSK\_1\_0\_HighCH20385-1753.5



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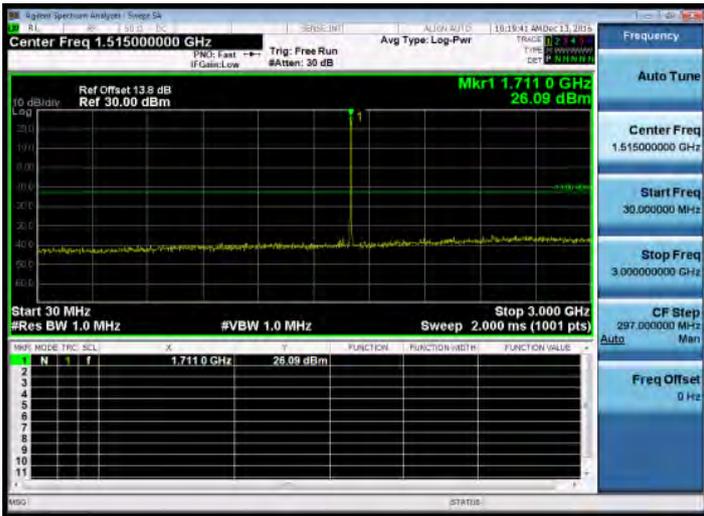
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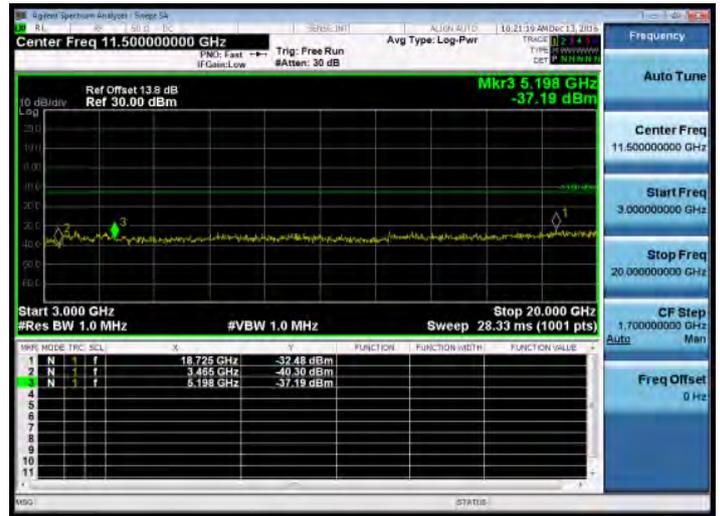
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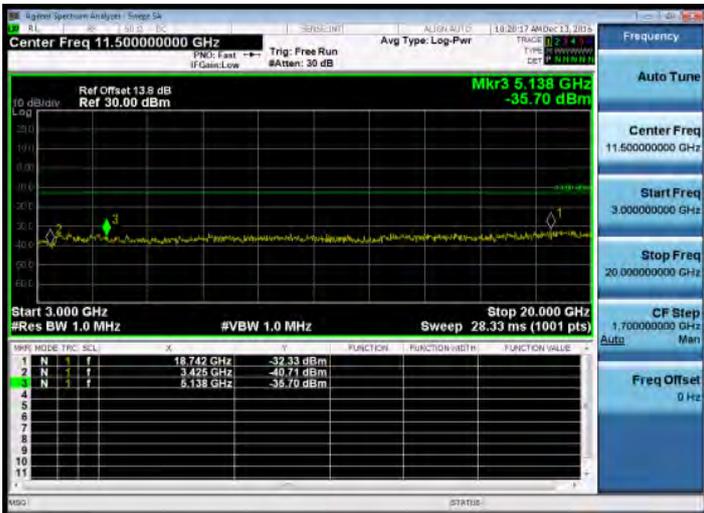
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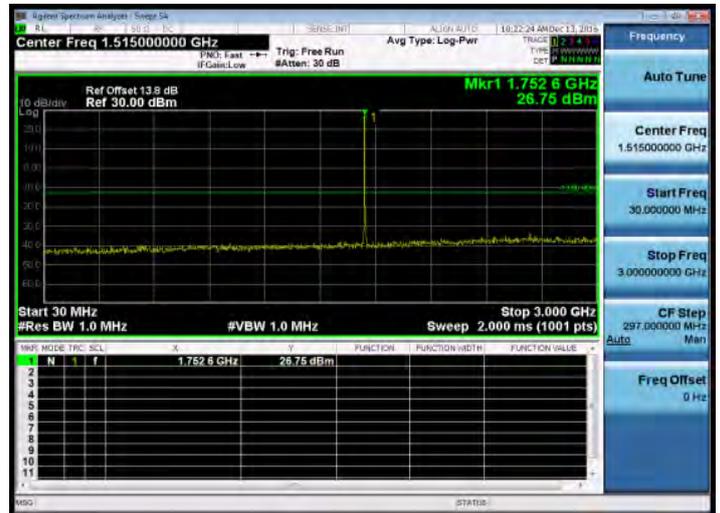
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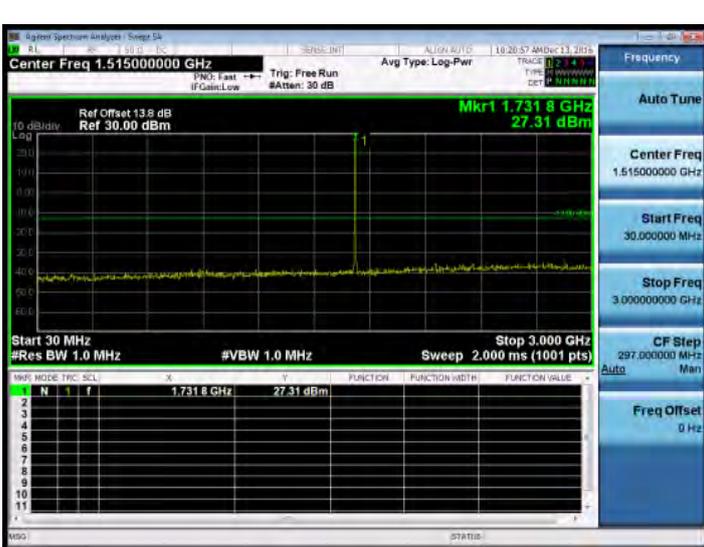
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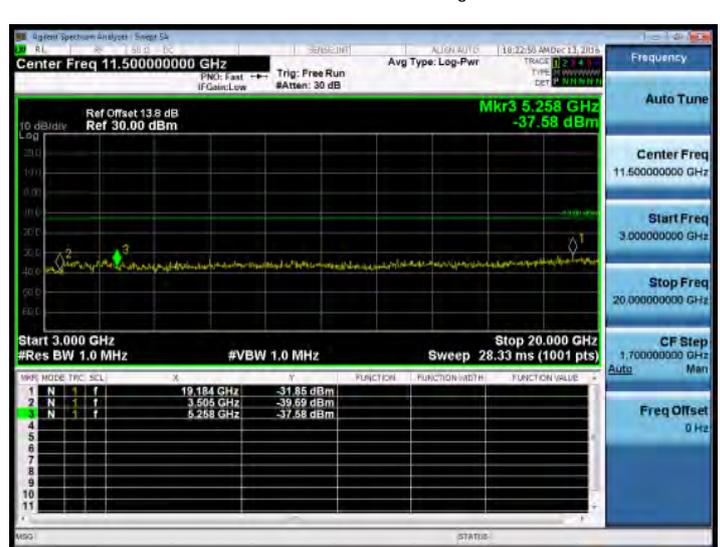
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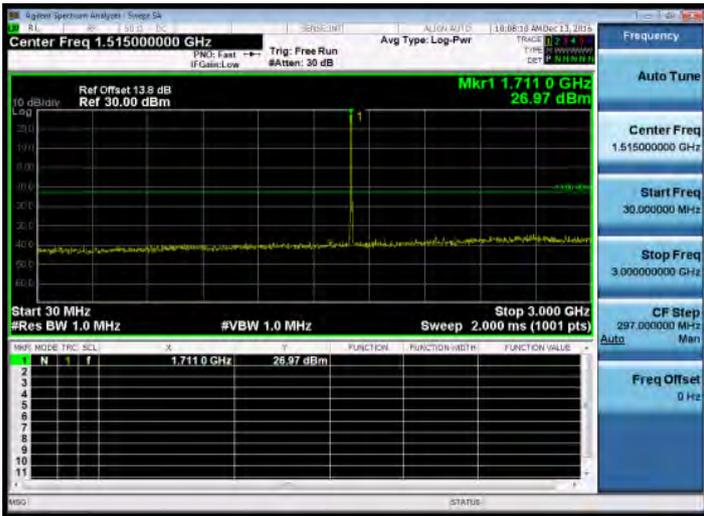
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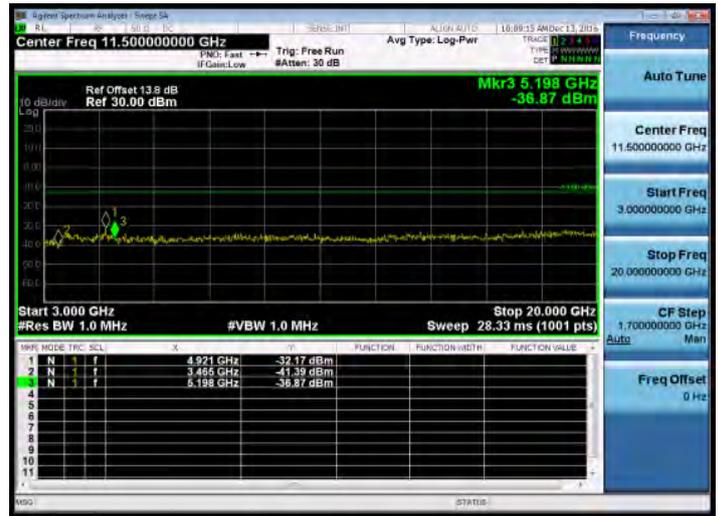
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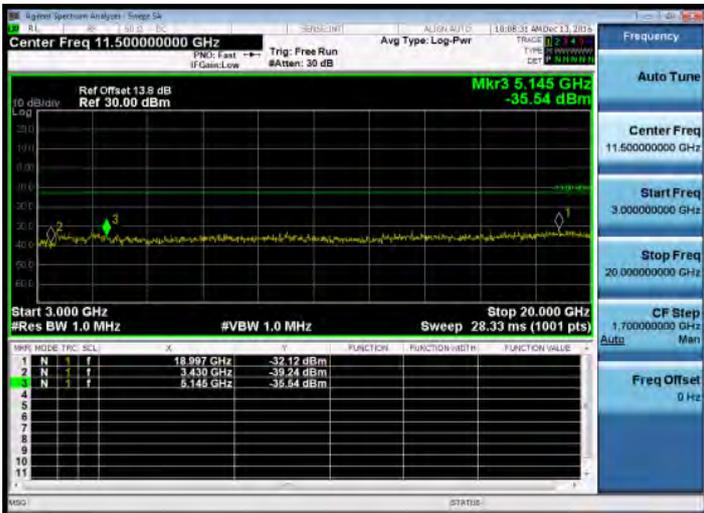
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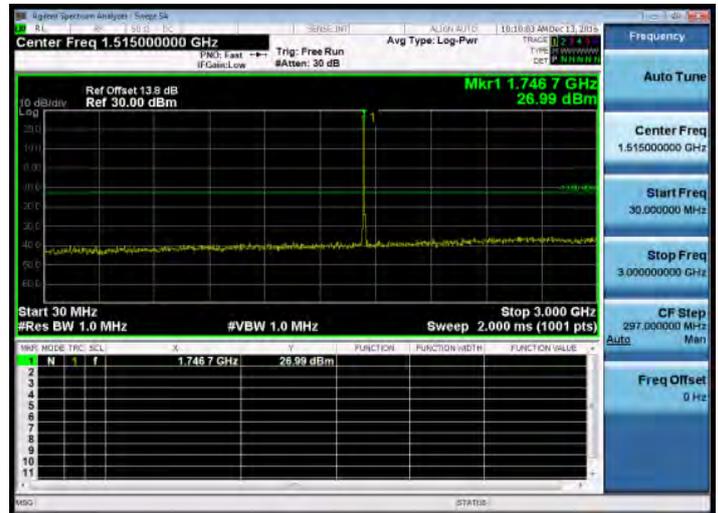
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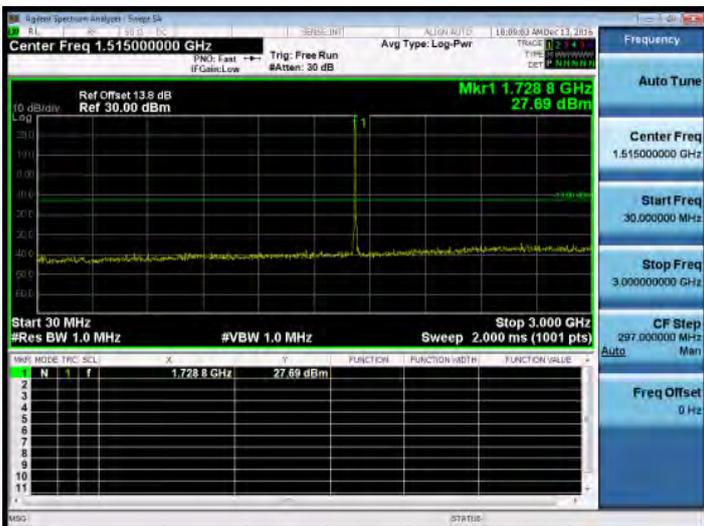
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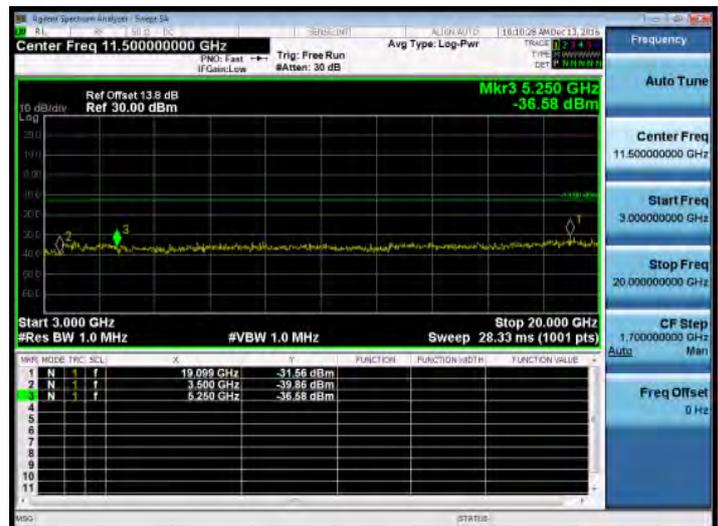
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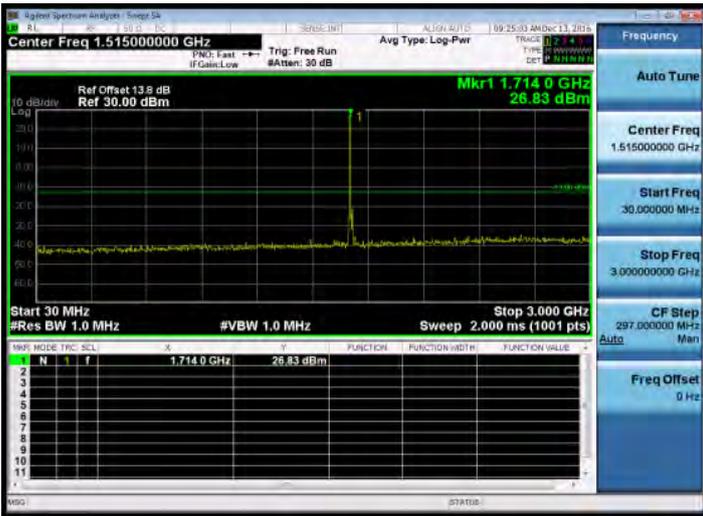
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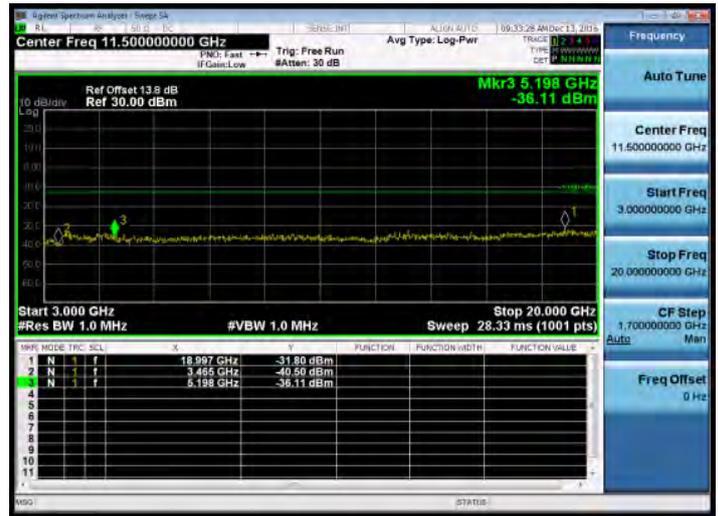
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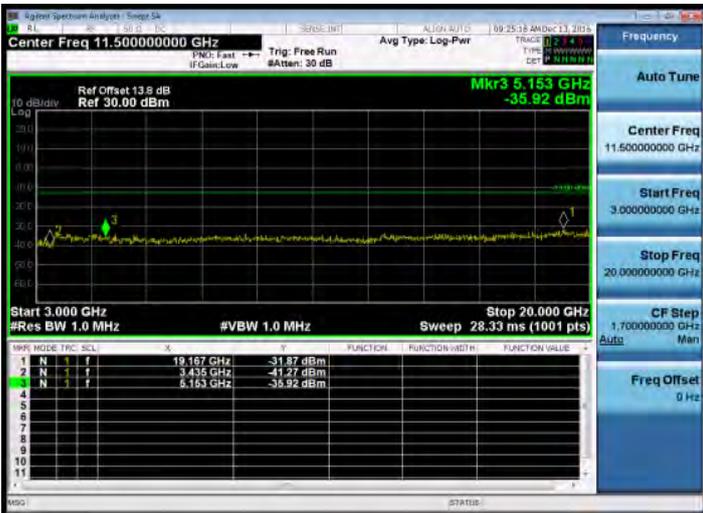
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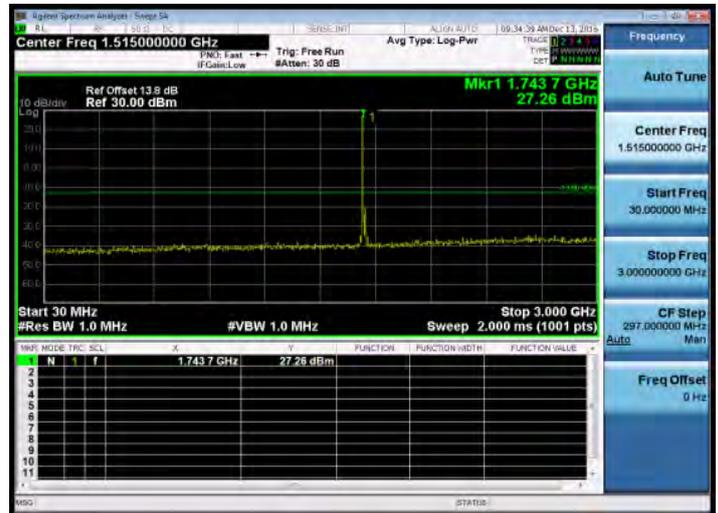
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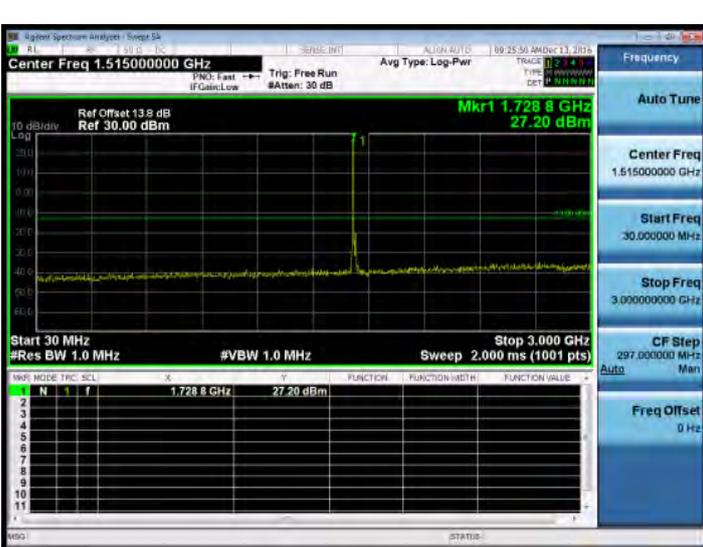
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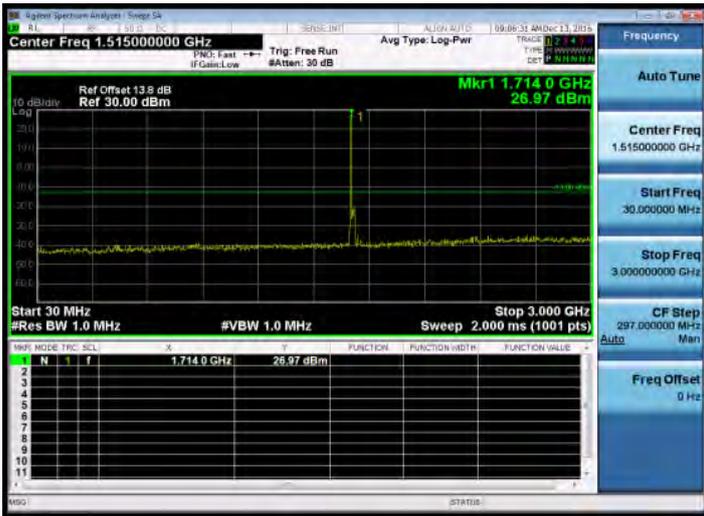
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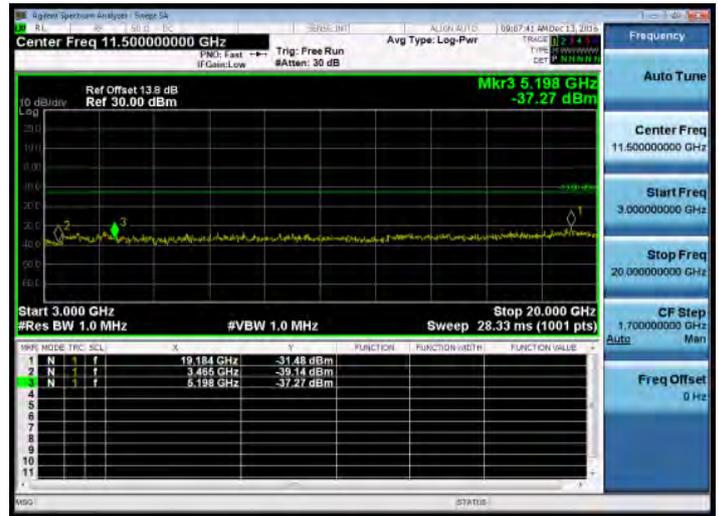
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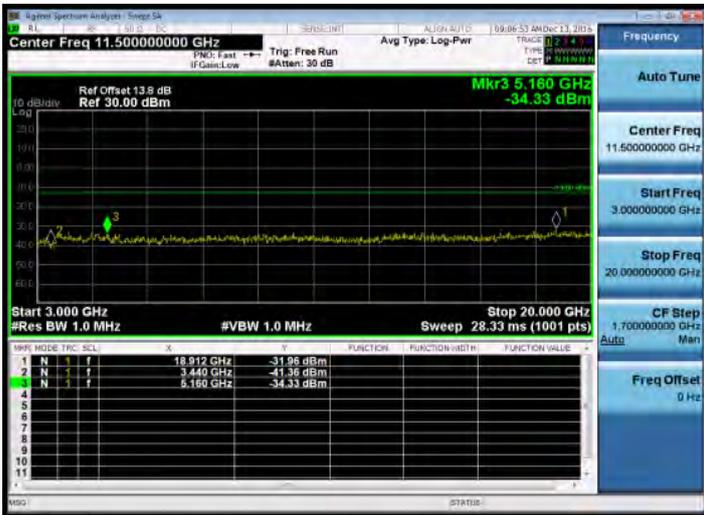
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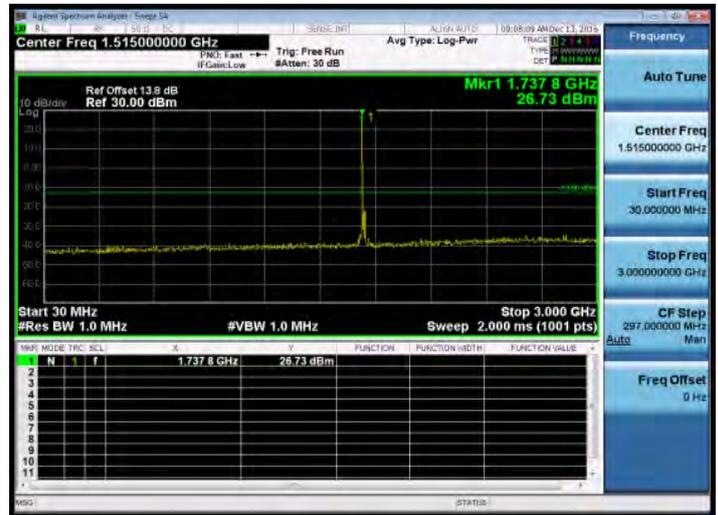
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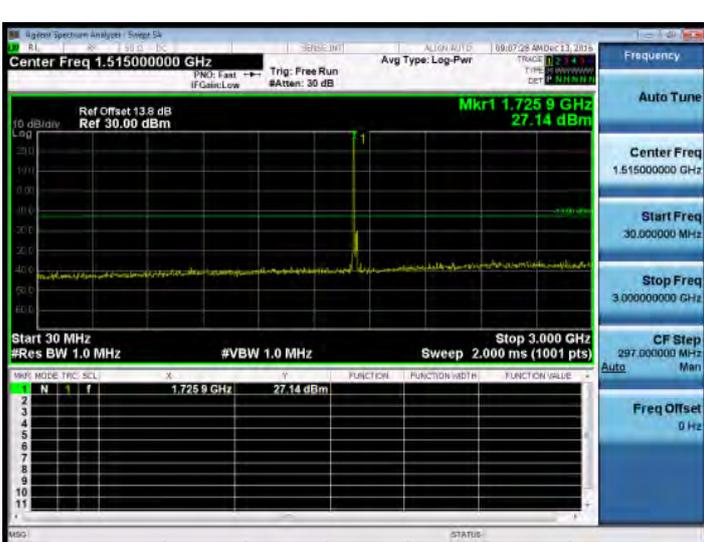
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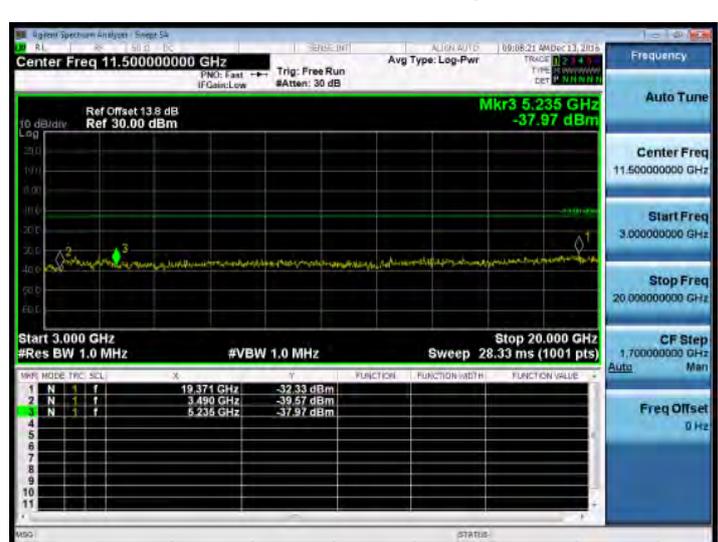
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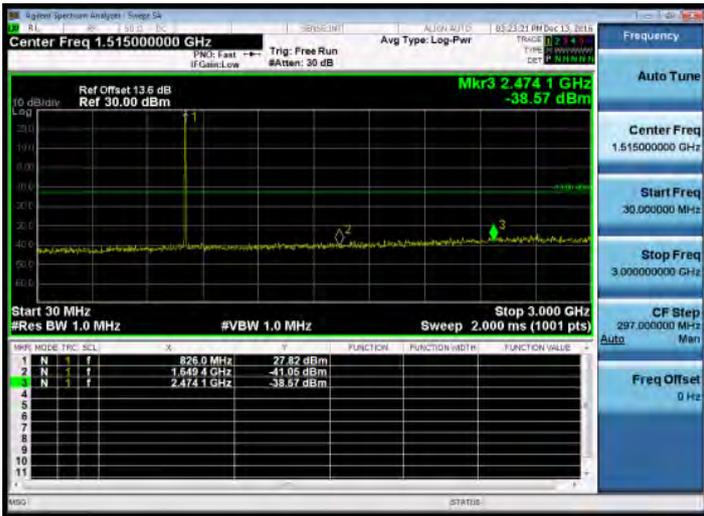
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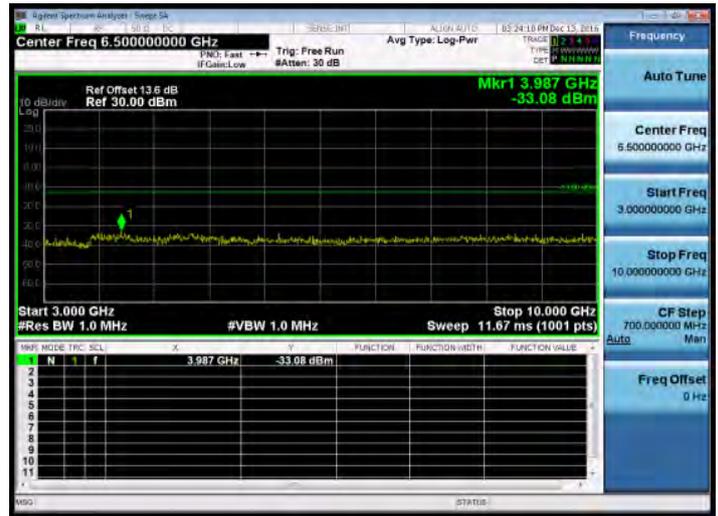
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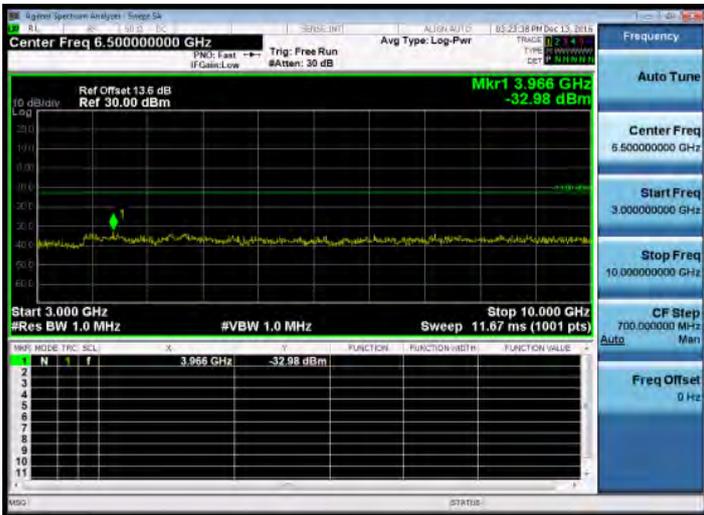
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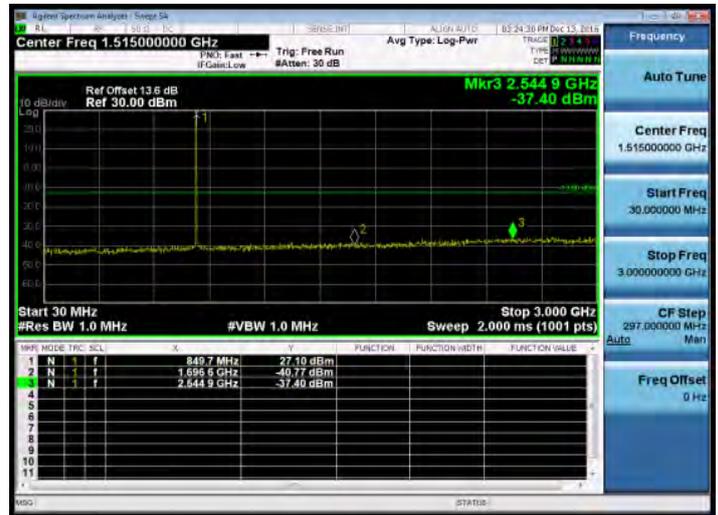
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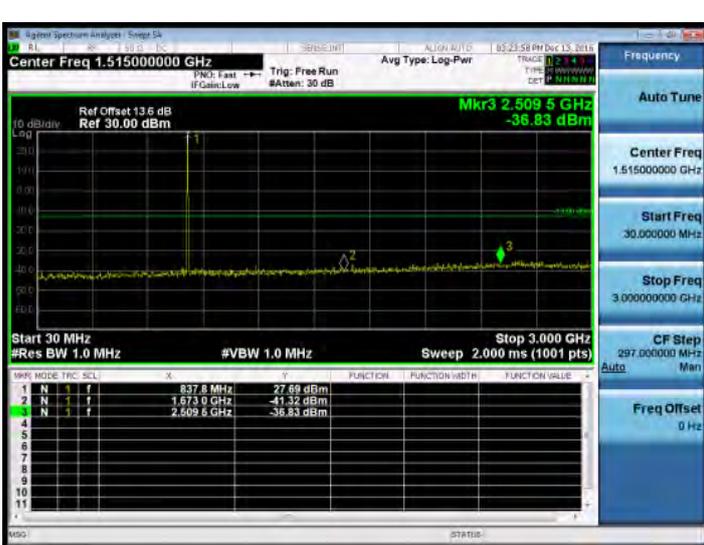
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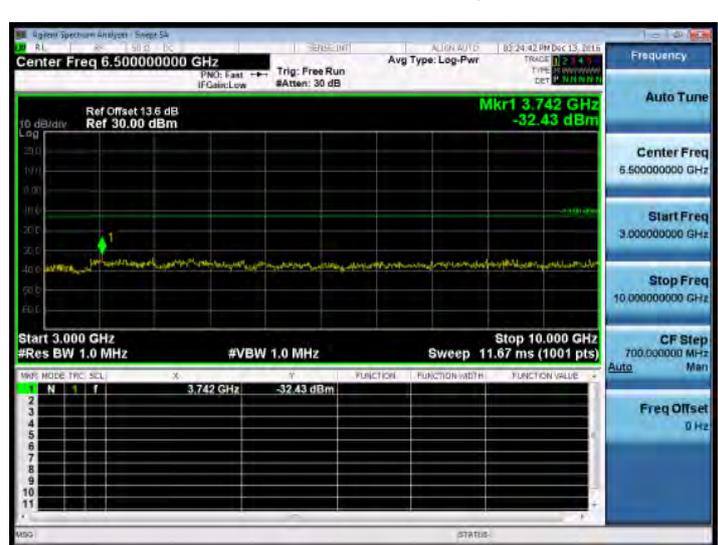
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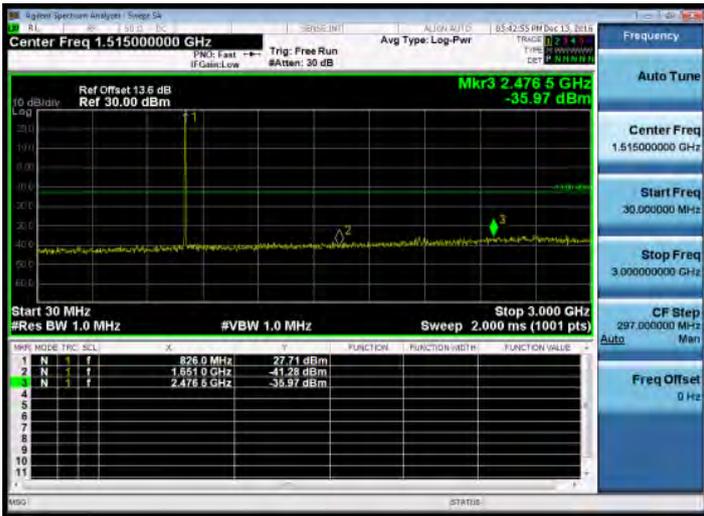
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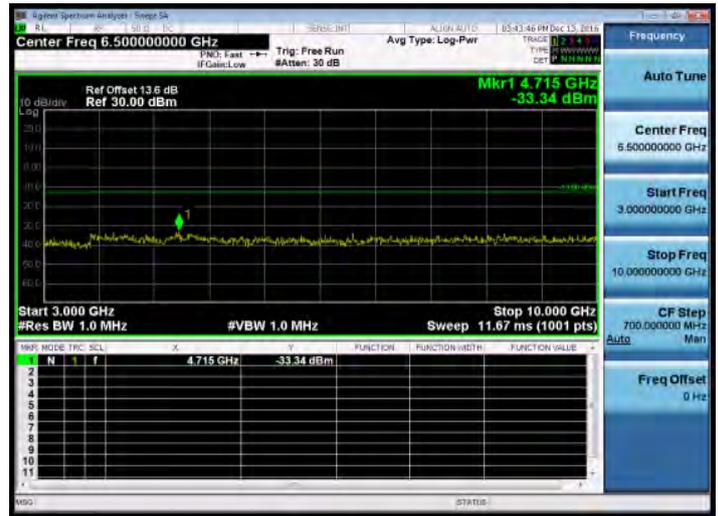
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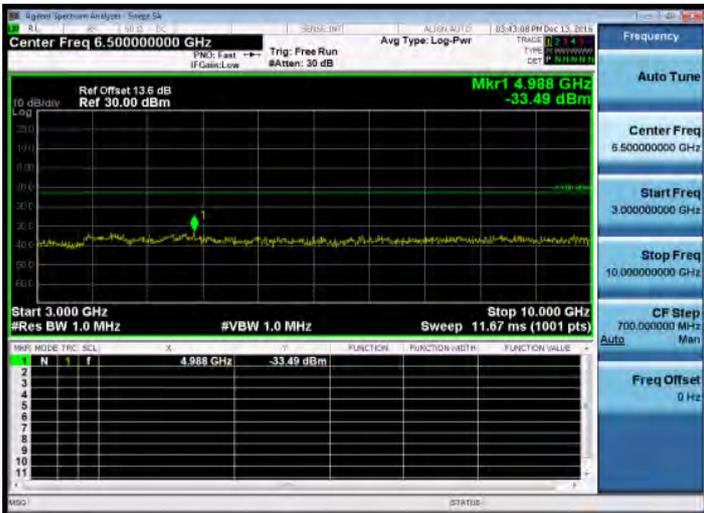
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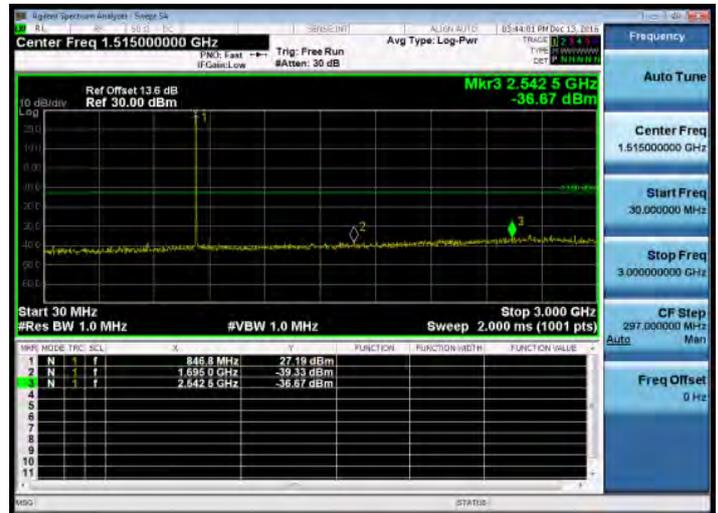
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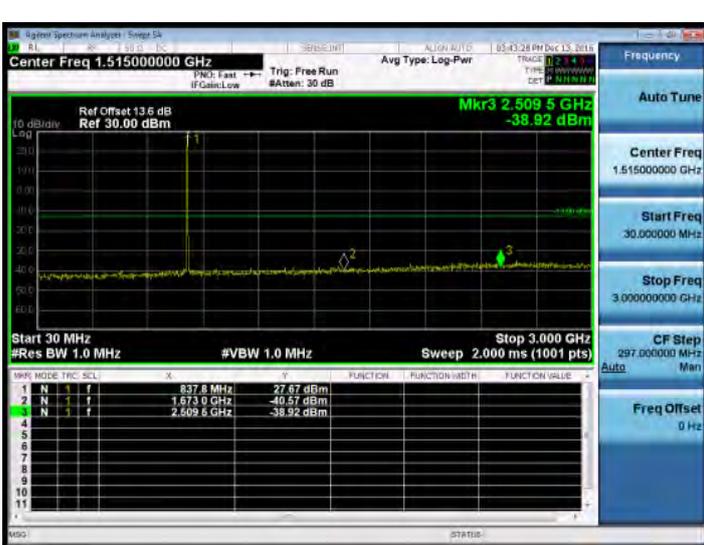
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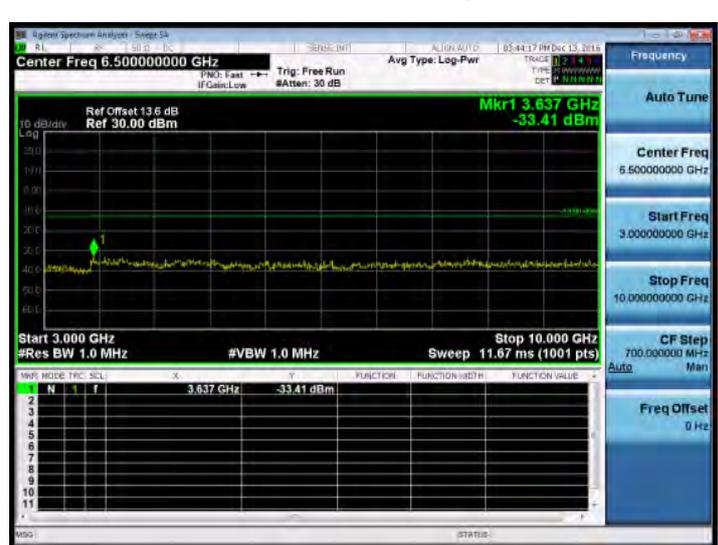
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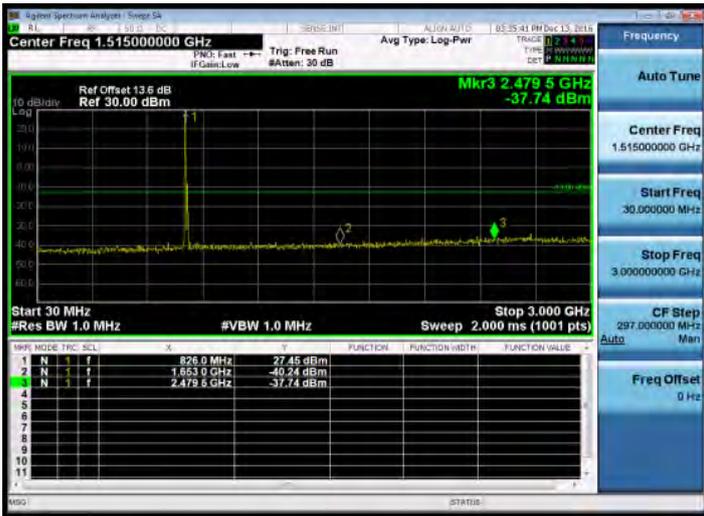
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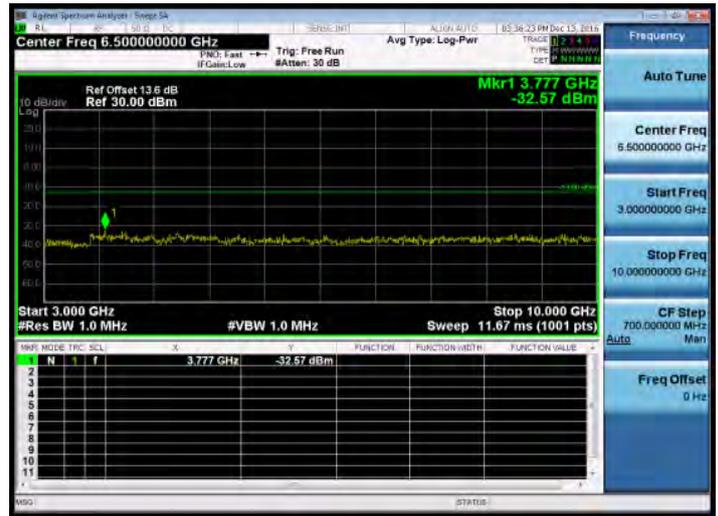
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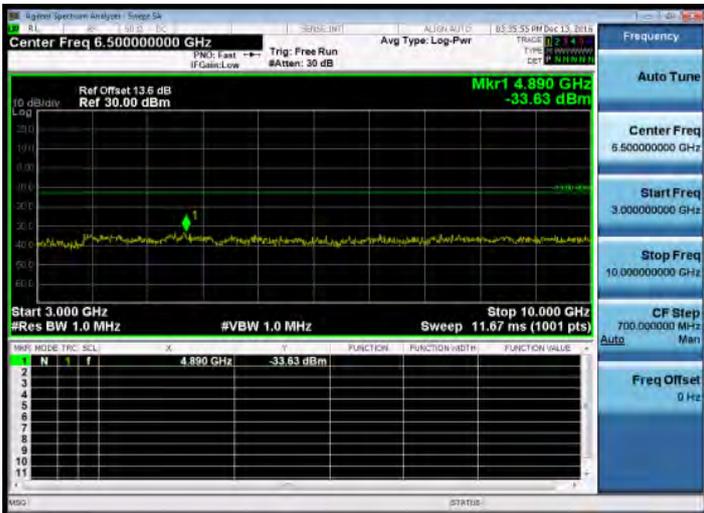
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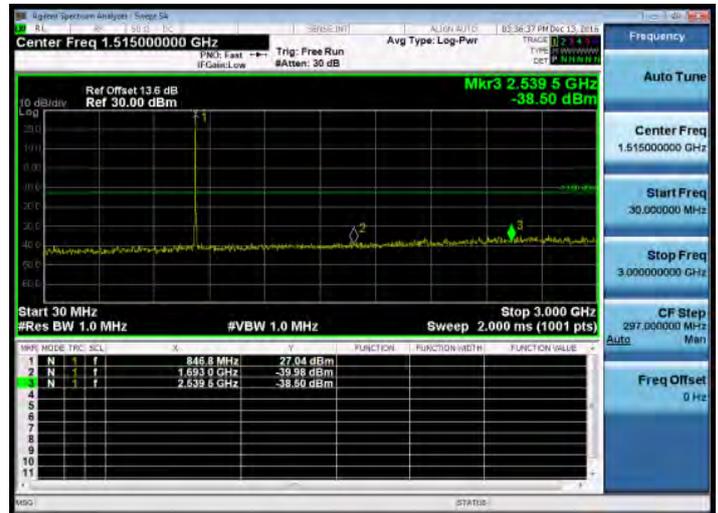
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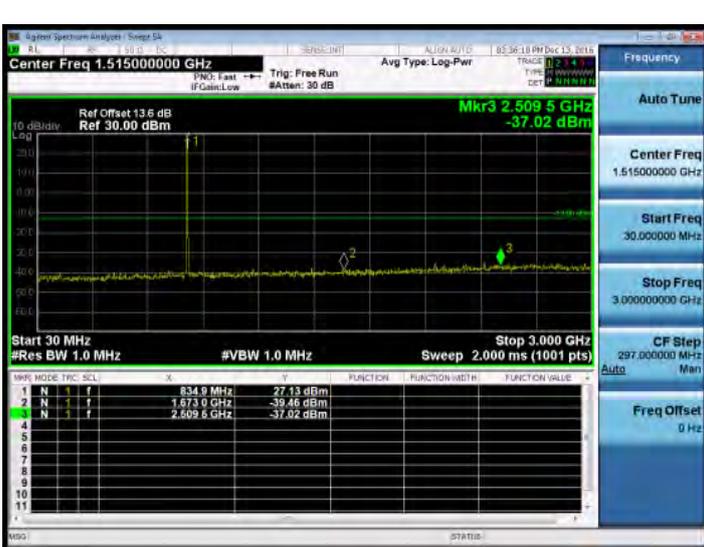
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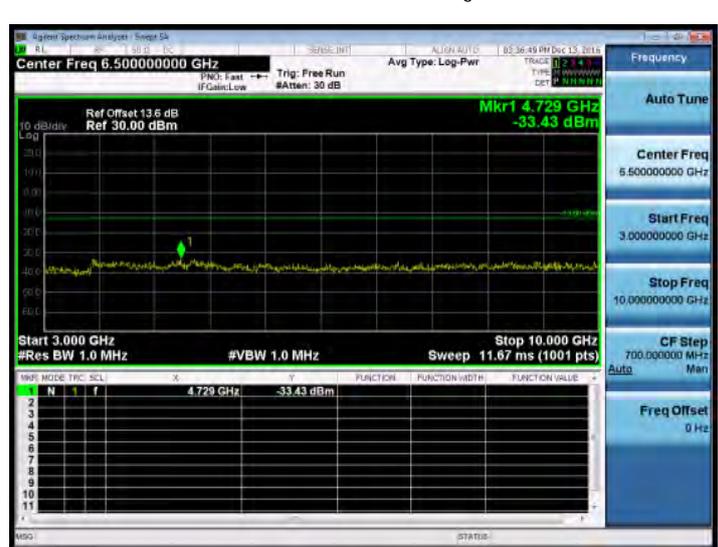
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3GHz-10GHz\_Band5\_5MHz\_QPSK\_1\_0\_HighCH20625-846.5



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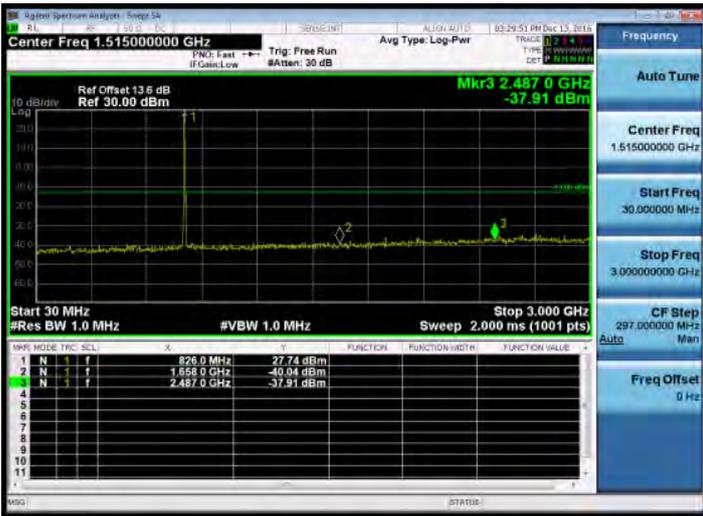
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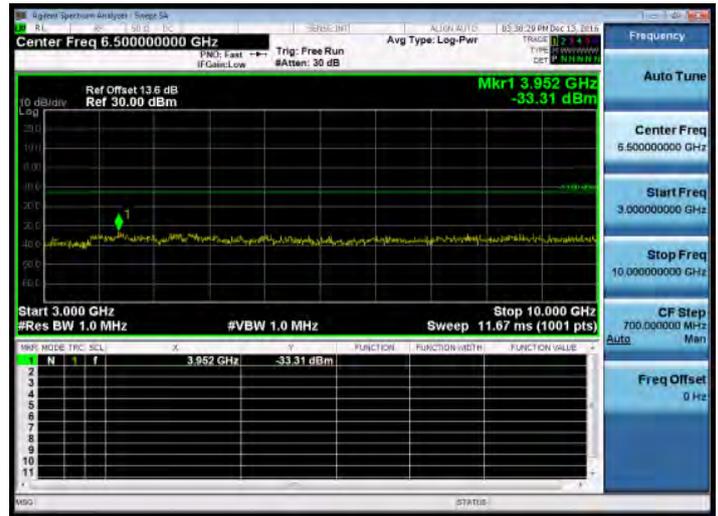
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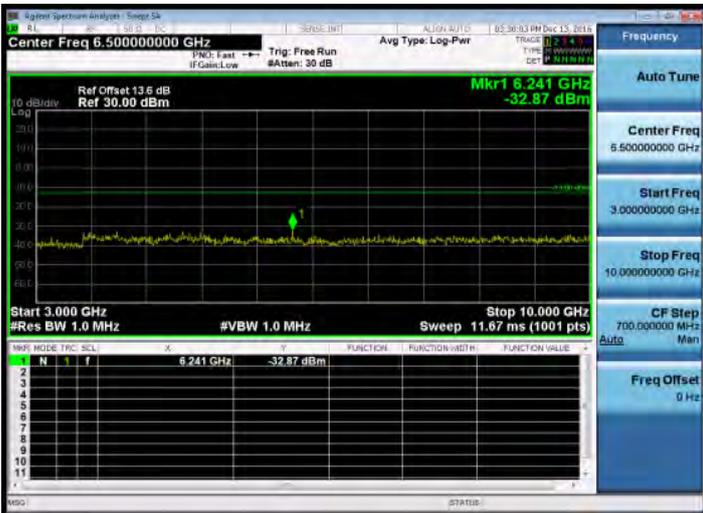
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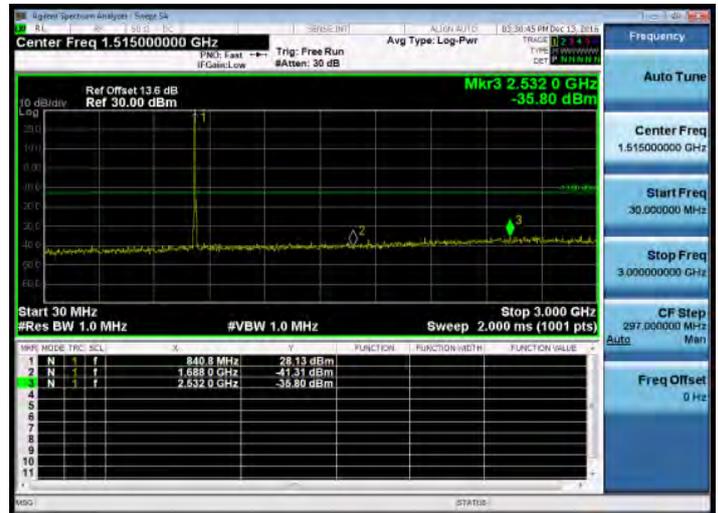
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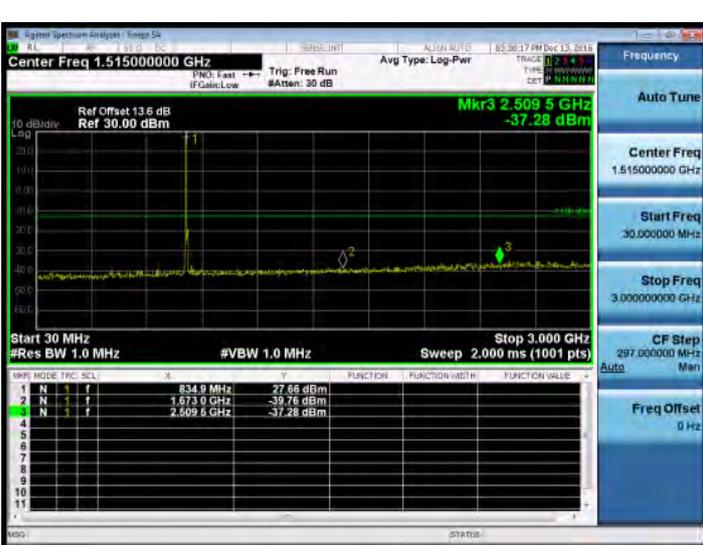
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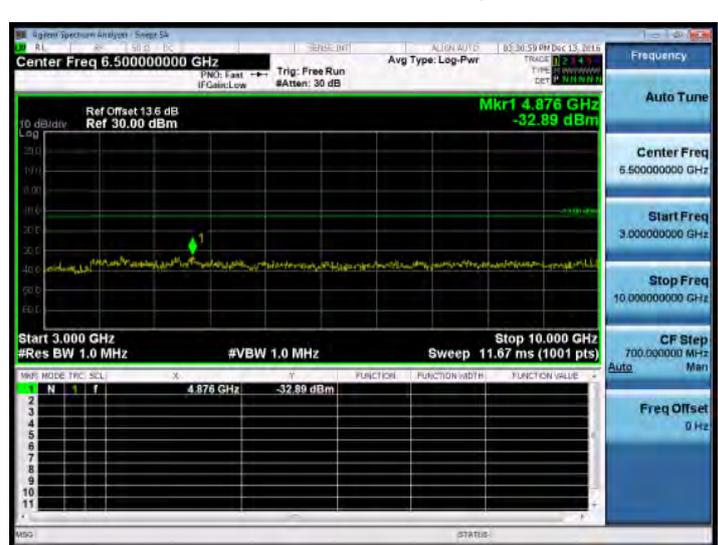
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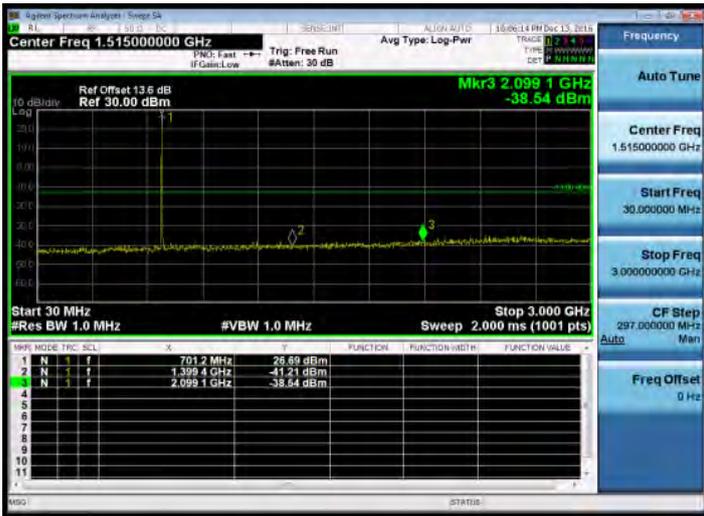
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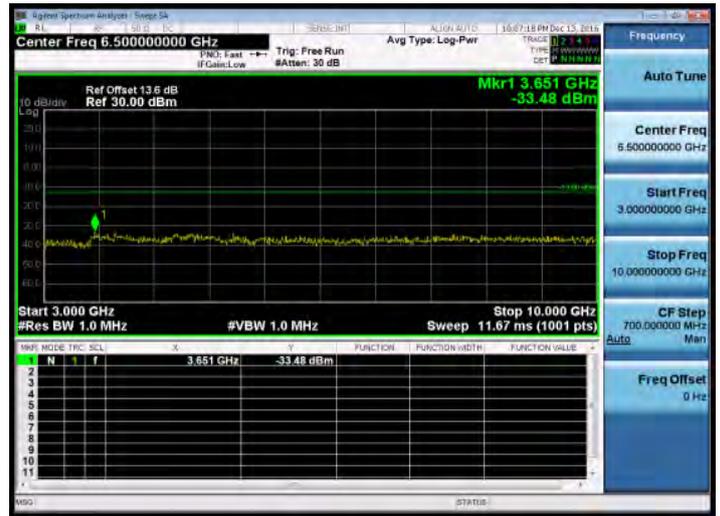
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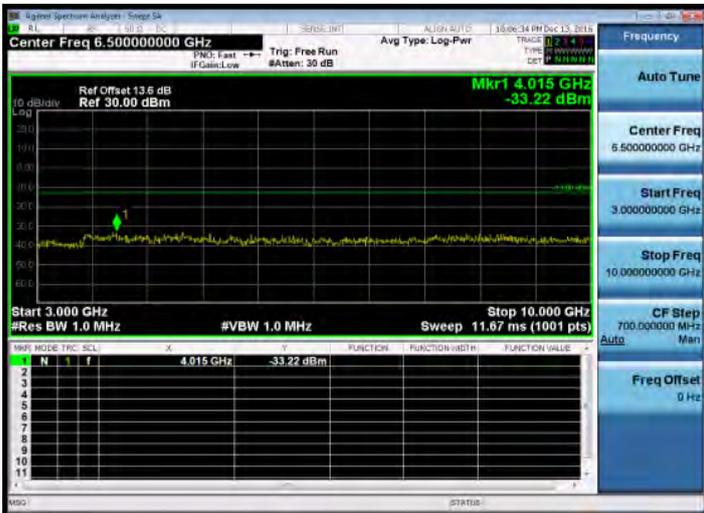
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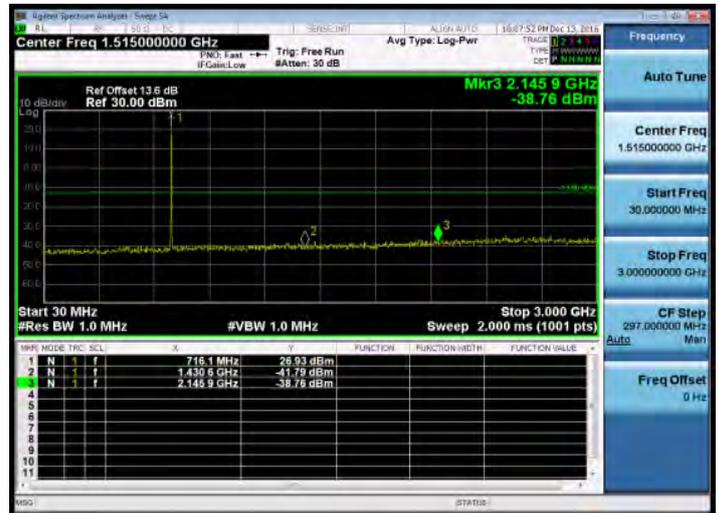
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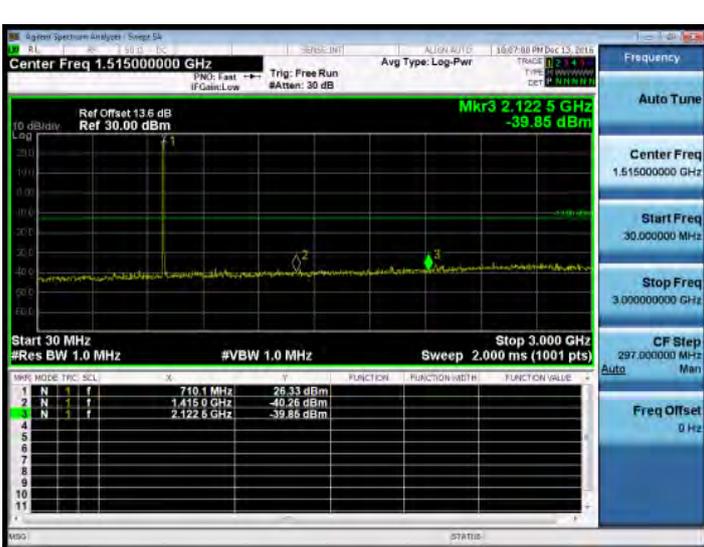
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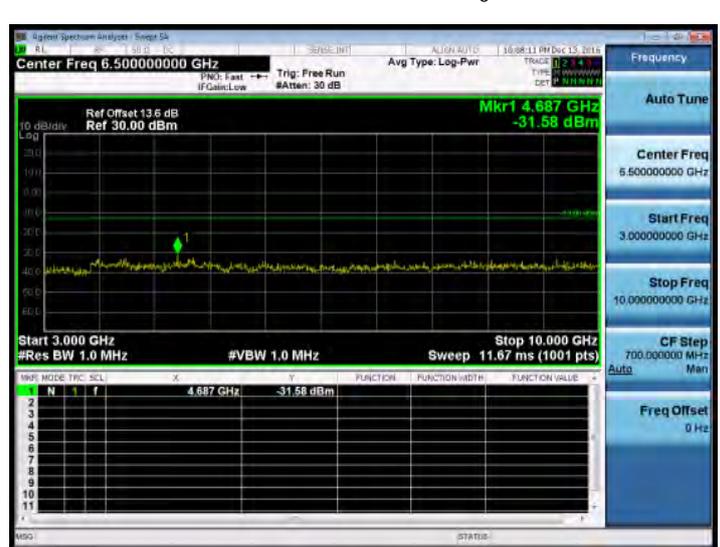
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3GHz-10GHz\_Band12\_1.4MHz\_QPSK\_1\_0\_HighCH23173-715.3



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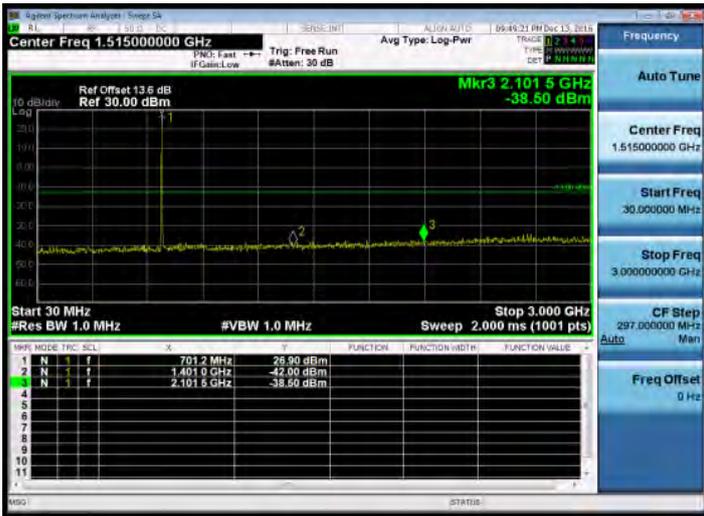
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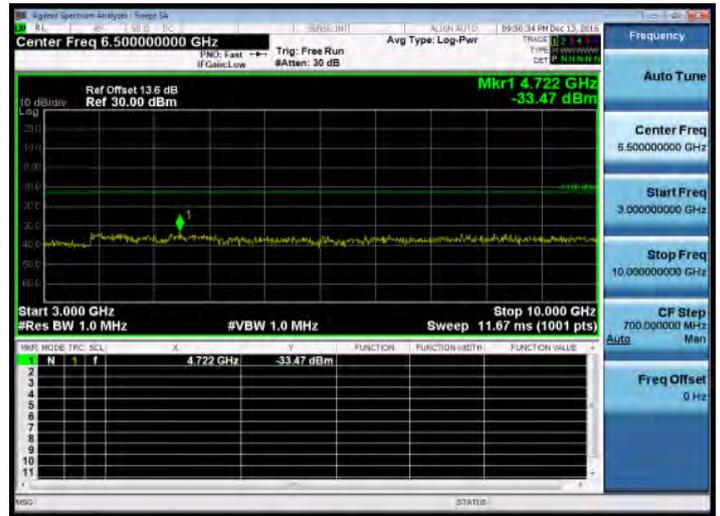
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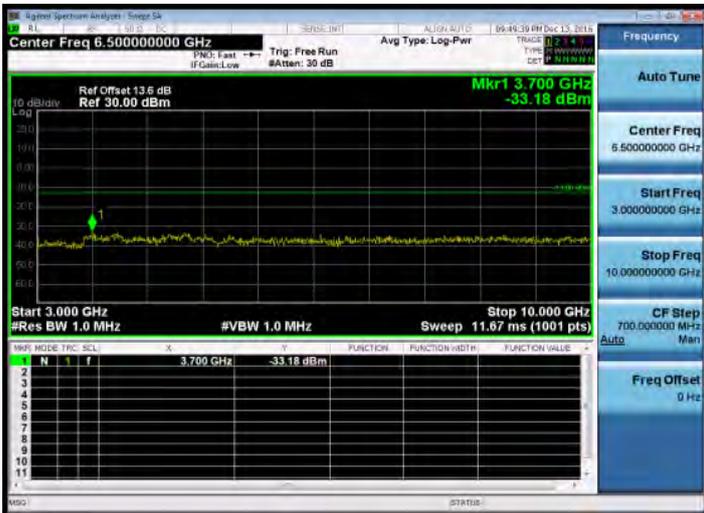
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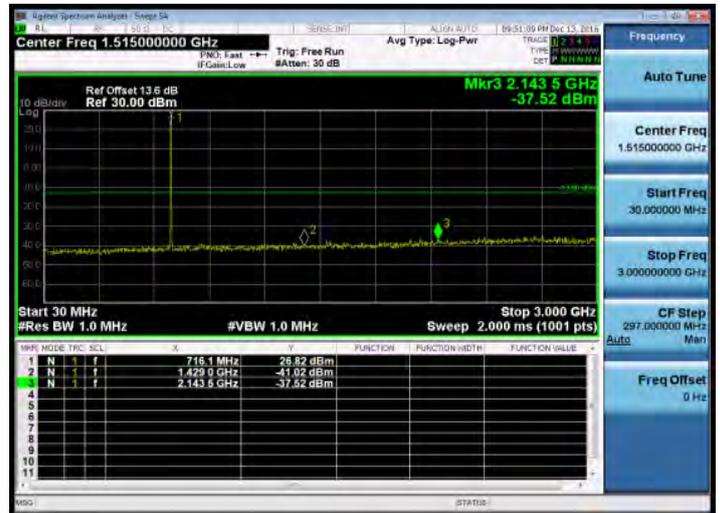
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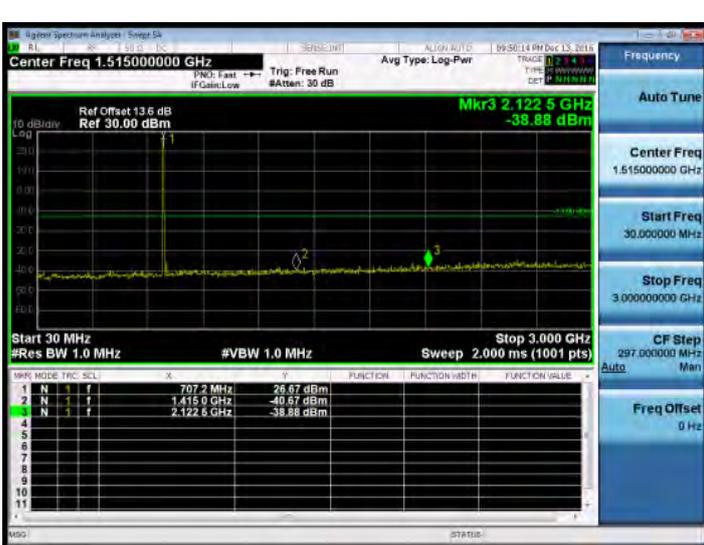
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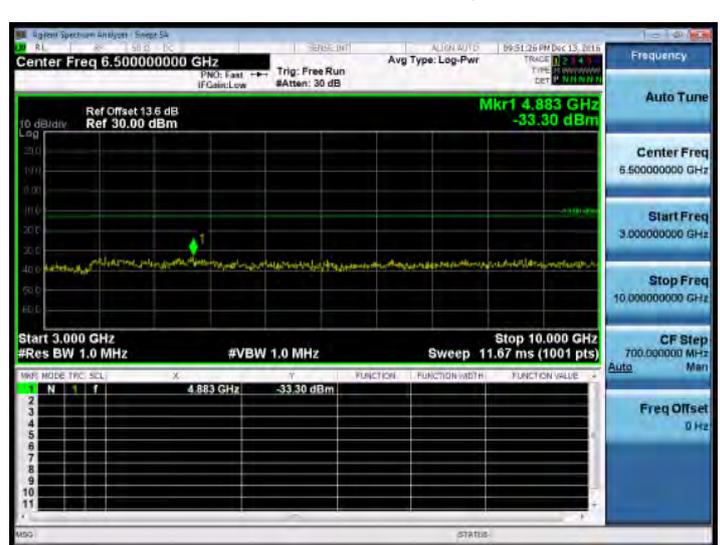
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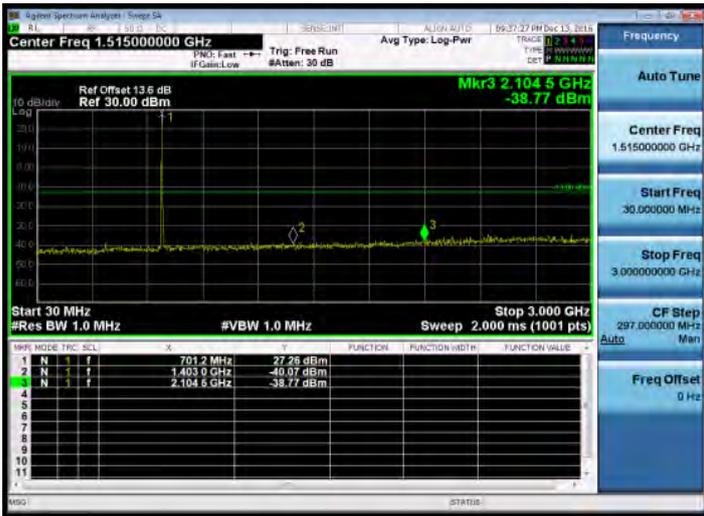
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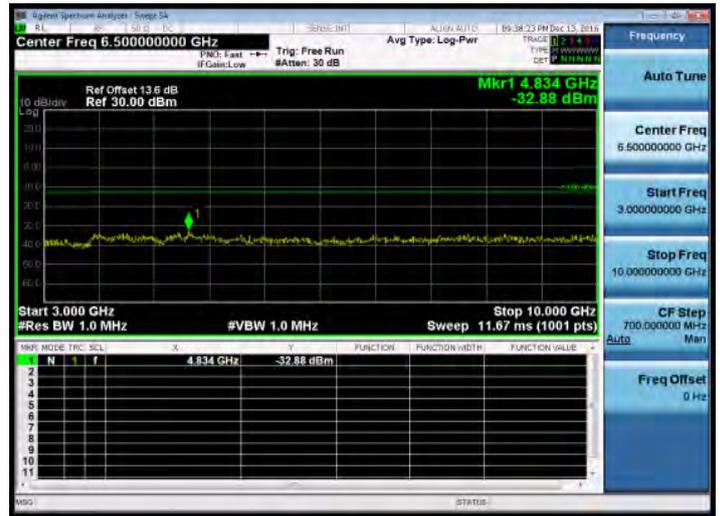
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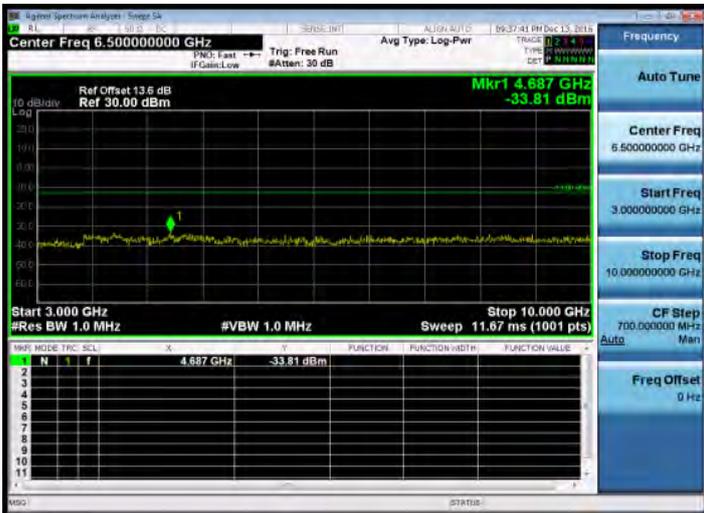
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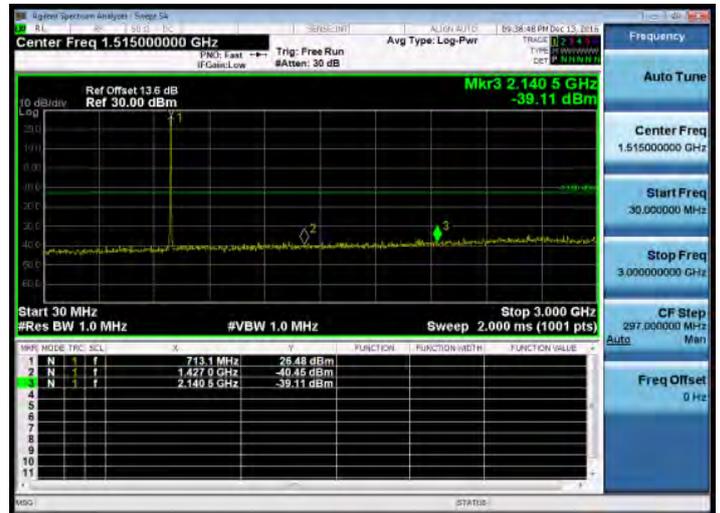
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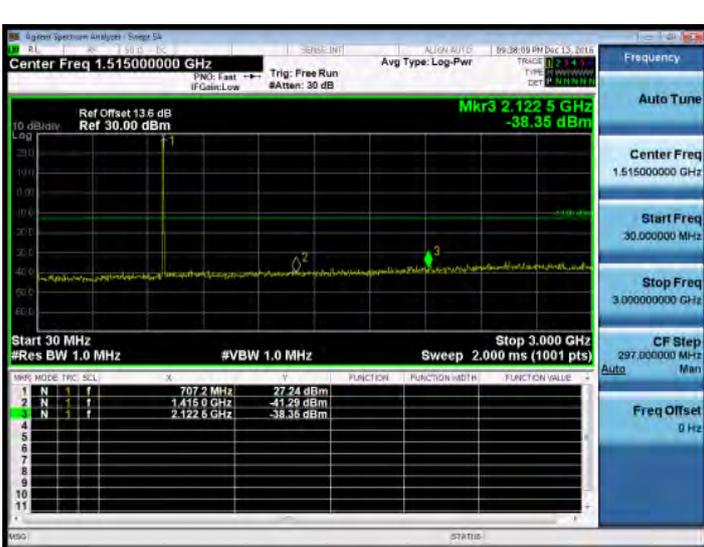
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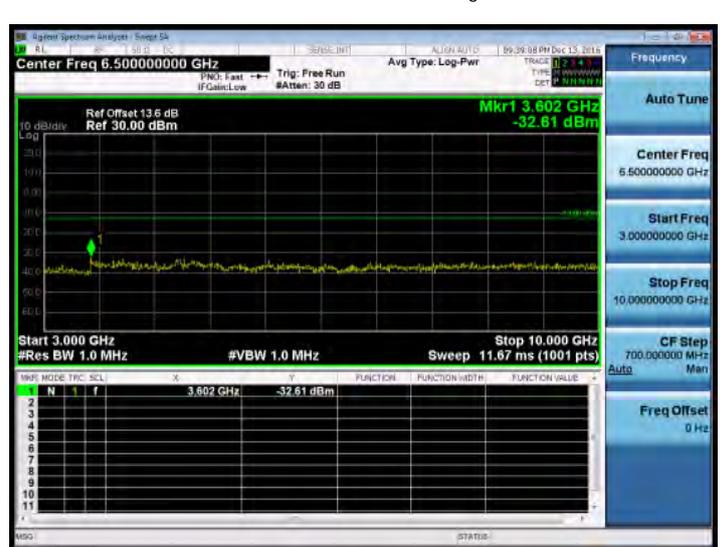
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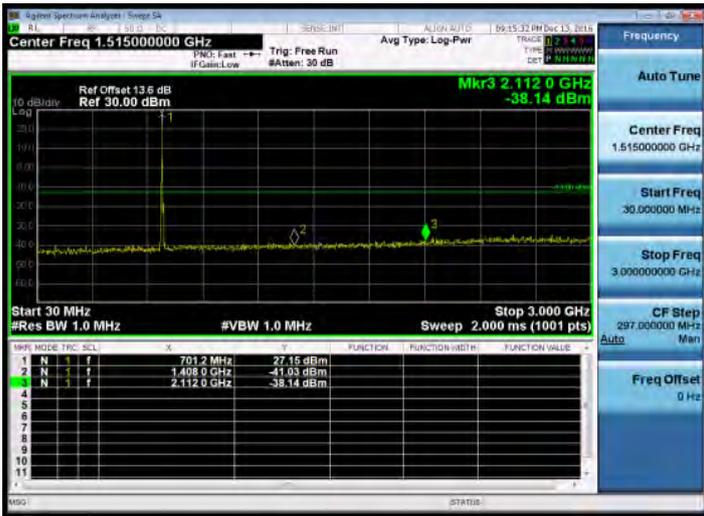
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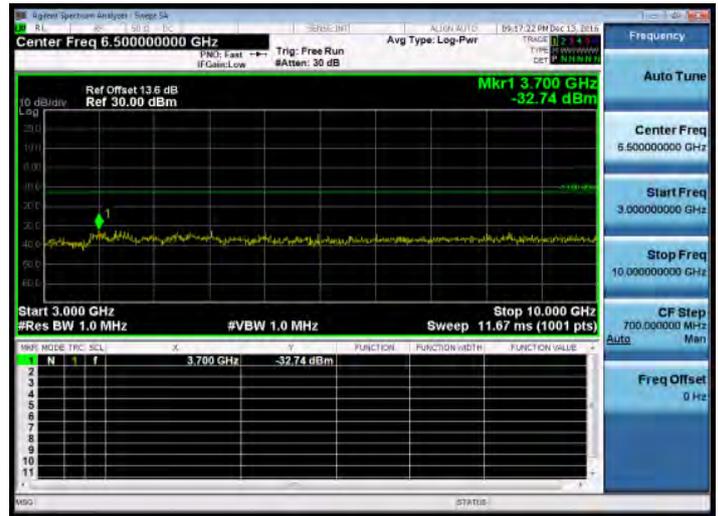
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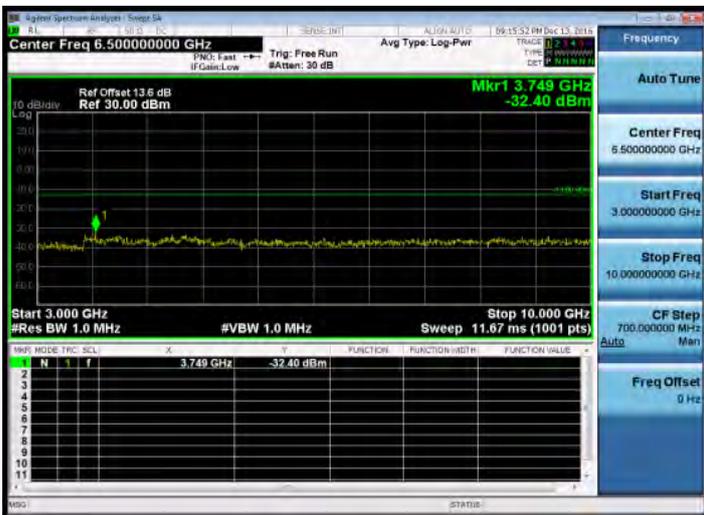
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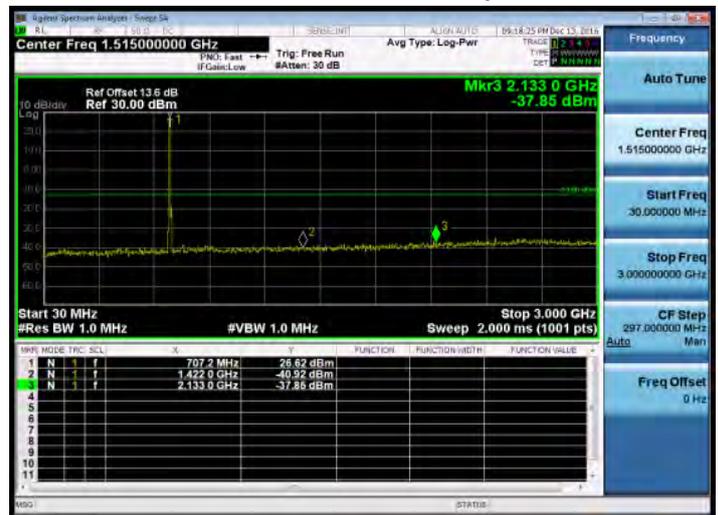
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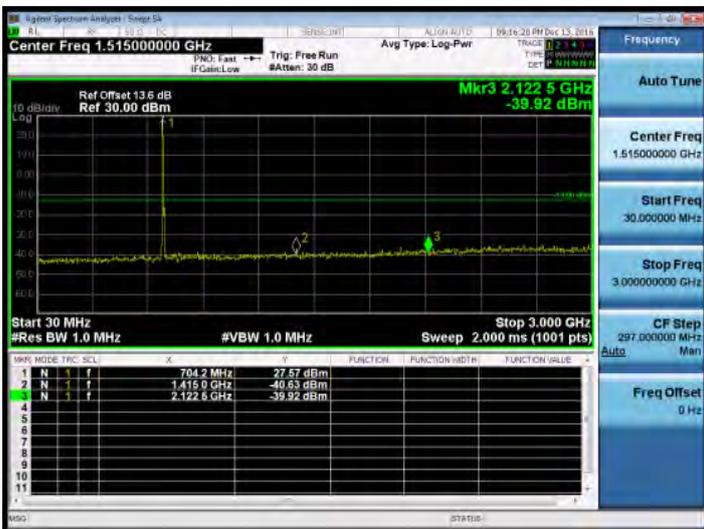
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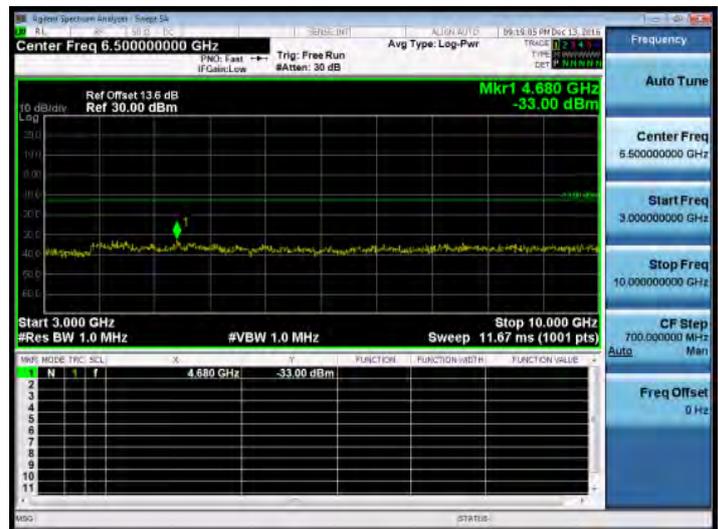
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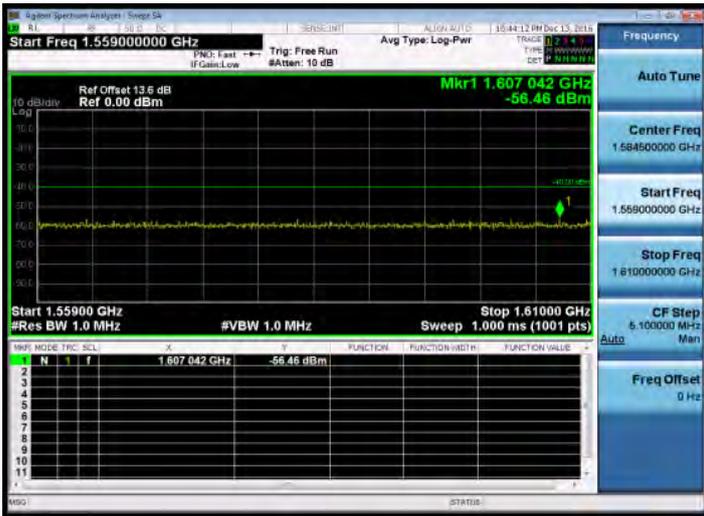
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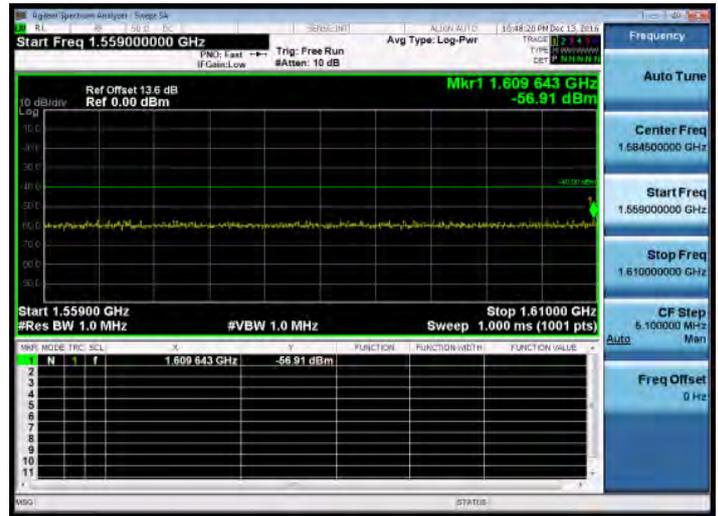
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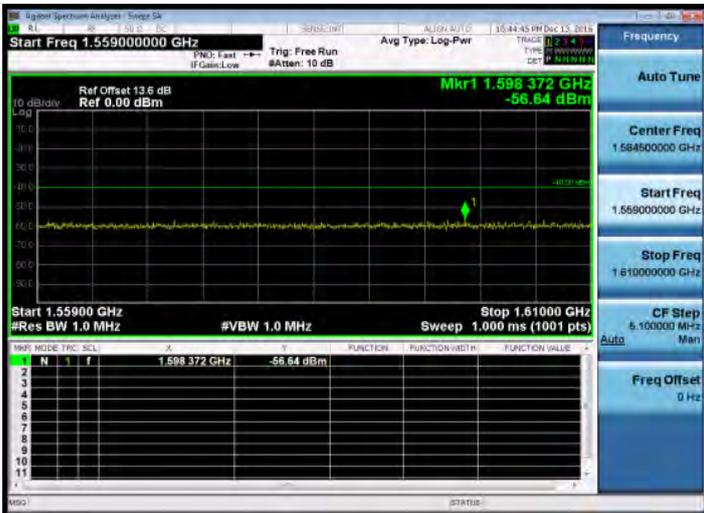
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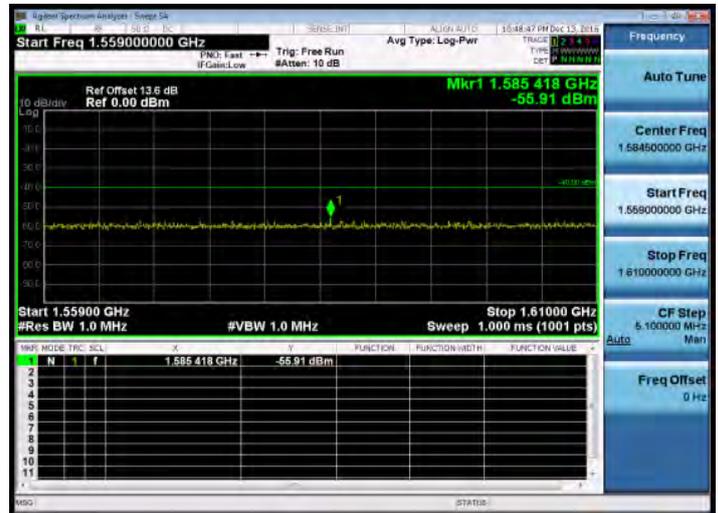
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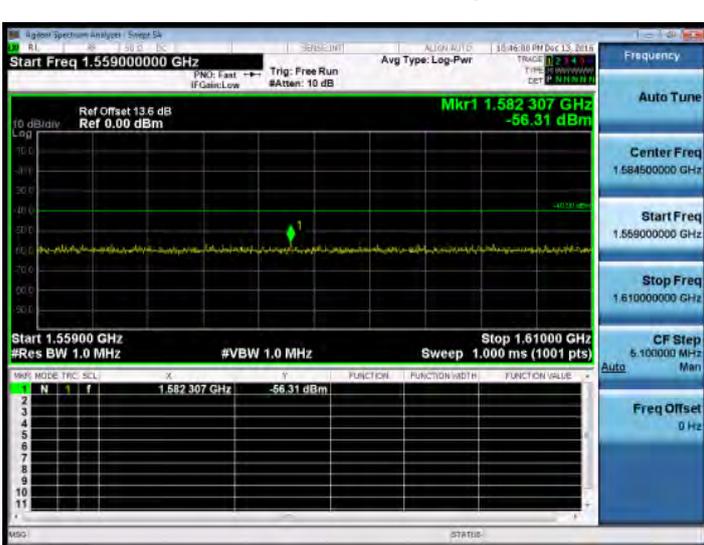
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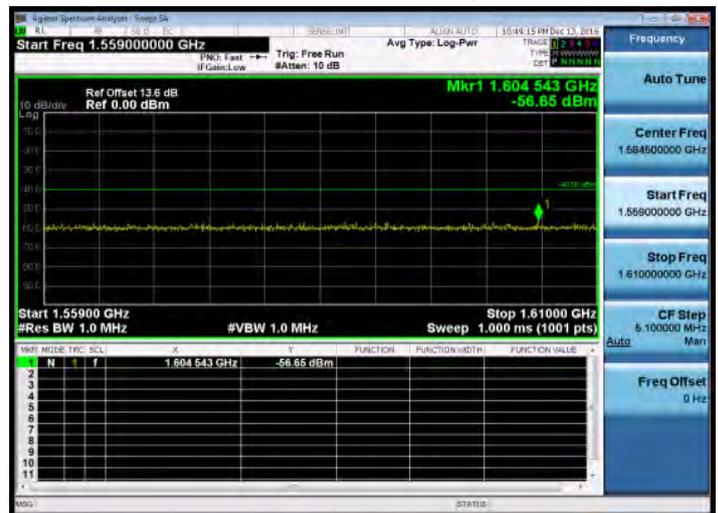
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30MHz-3GHz\_Band12\_1.4MHz\_QPSK\_1\_0\_HighCH23173-715.3



30MHz-3GHz\_Band12\_3MHz\_QPSK\_1\_0\_HighCH23165-714.5



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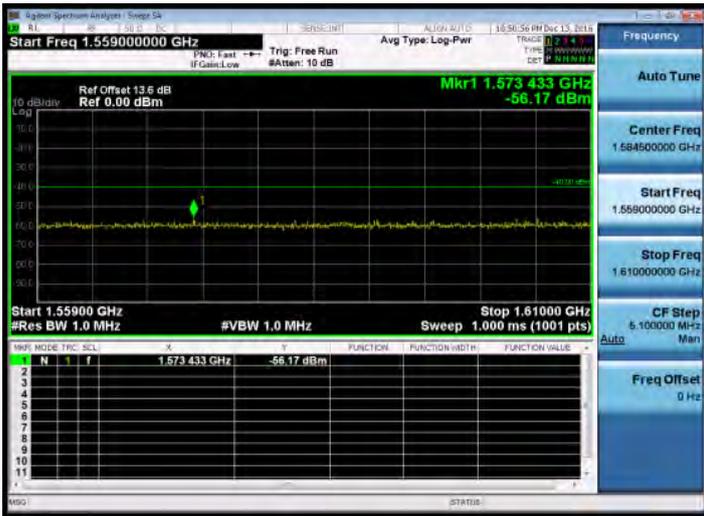
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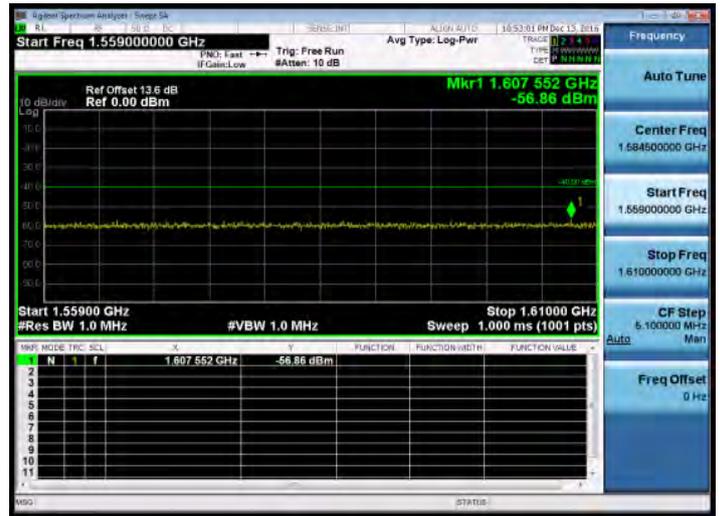
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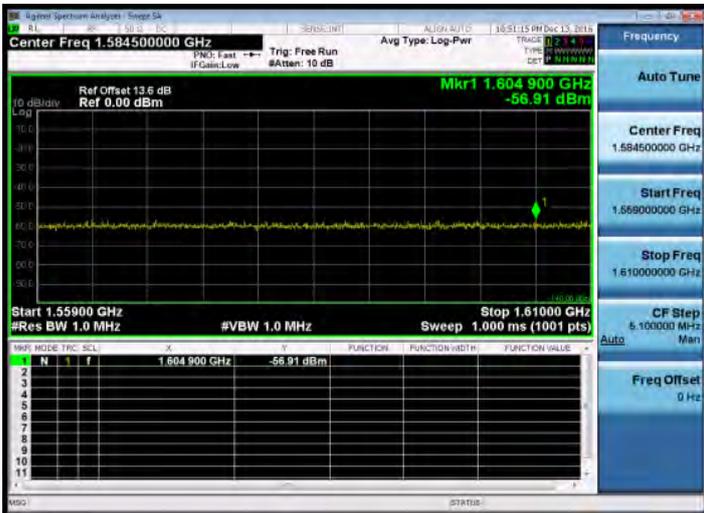
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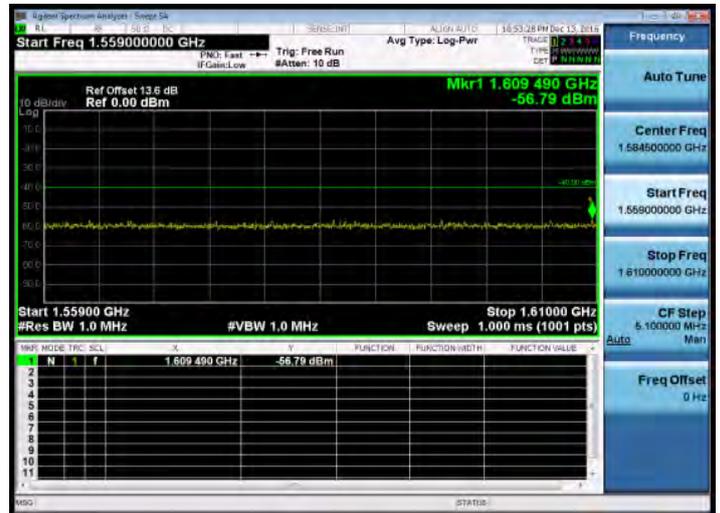
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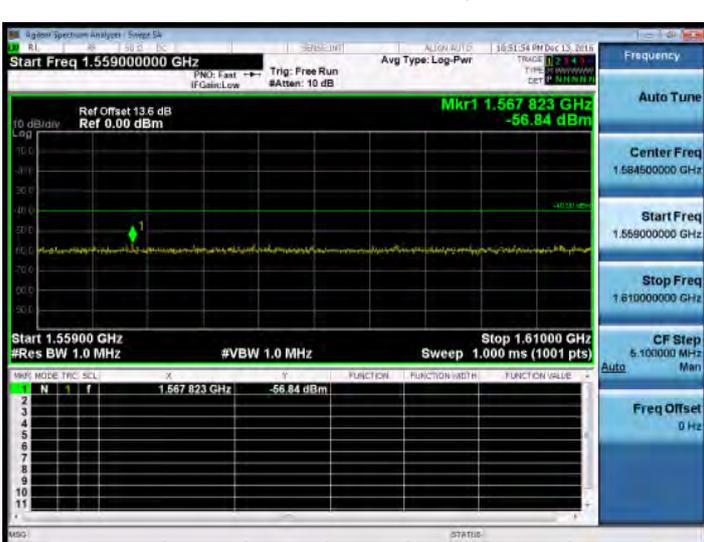
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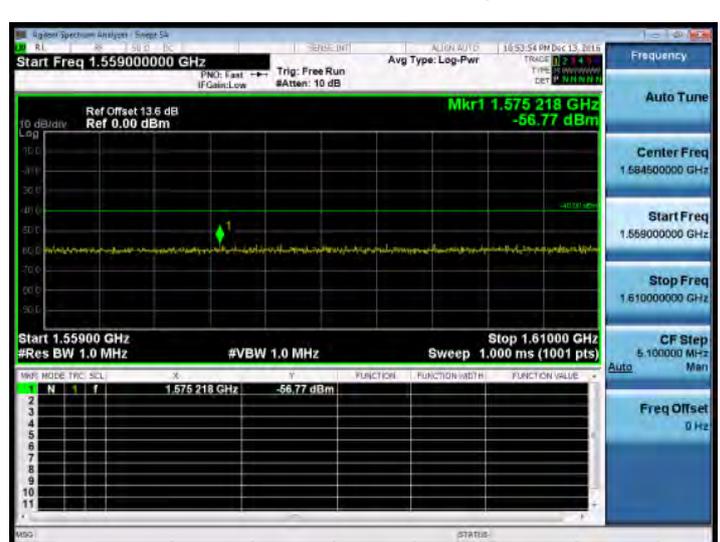
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30MHz-3GHz\_Band12\_5MHz\_OPSK\_1\_0\_HighCH23155-713.5



30MHz-3GHz\_Band12\_10MHz\_OPSK\_1\_0\_HighCH23130-711



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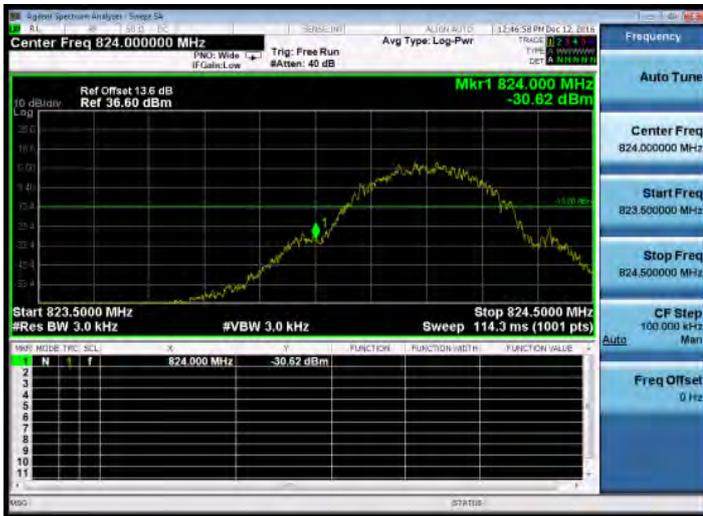
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Band Edge\_GSM\_850MHz\_LowCH128-824.2



Band Edge\_GPRS\_850MHz\_LowCH128-824.2



Band Edge\_GSM\_850MHz\_HighCH251-848.8



Band Edge\_GPRS\_850MHz\_HighCH251-848.8



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Band Edge\_EDGE\_850MHz\_LowCH128-824.2



Band Edge\_GSM\_1900MHz\_HighCH810-1909.8



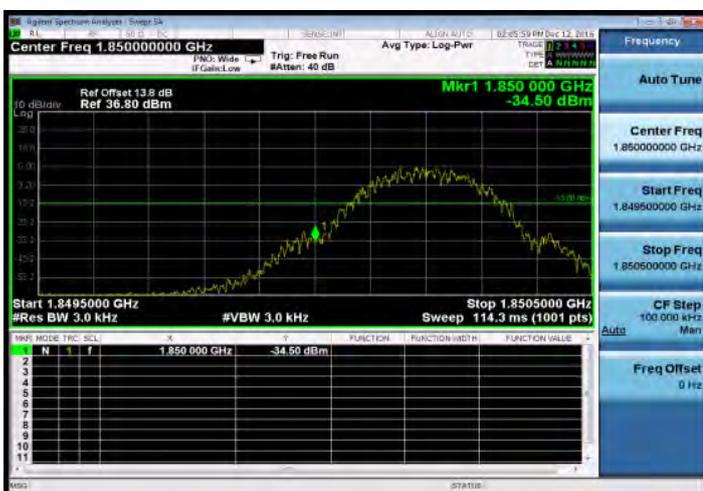
Band Edge\_EDGE\_850MHz\_HighCH251-848.8



Band Edge\_GPRS\_1900MHz\_LowCH512-1850.2



Band Edge\_GSM\_1900MHz\_LowCH512-1850.2



Band Edge\_GPRS\_1900MHz\_HighCH810-1909.8



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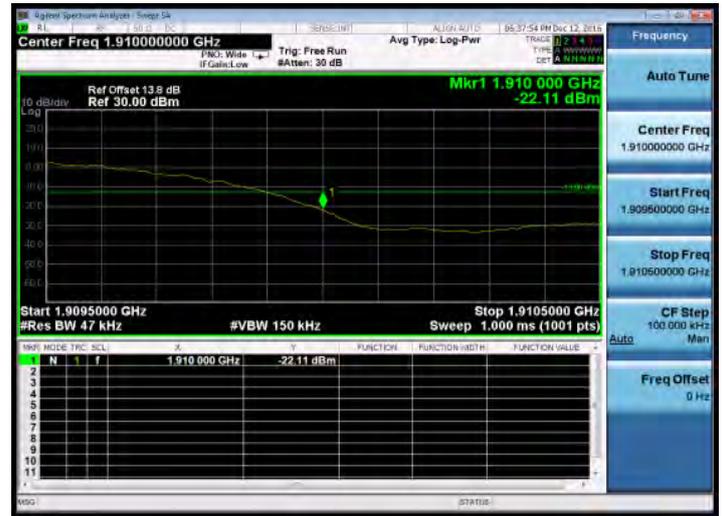
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Band Edge\_EDGE\_1900MHz\_LowCH512-1850.2



Band Edge\_WCDMA\_B2\_HighCH9538-1907.6



Band Edge\_EDGE\_1900MHz\_HighCH810-1909.8



Band Edge\_HSDPA\_B2\_LowCH9262-1852.4



Band Edge\_WCDMA\_B2\_LowCH9262-1852.4



Band Edge\_HSDPA\_B2\_HighCH9538-1907.6

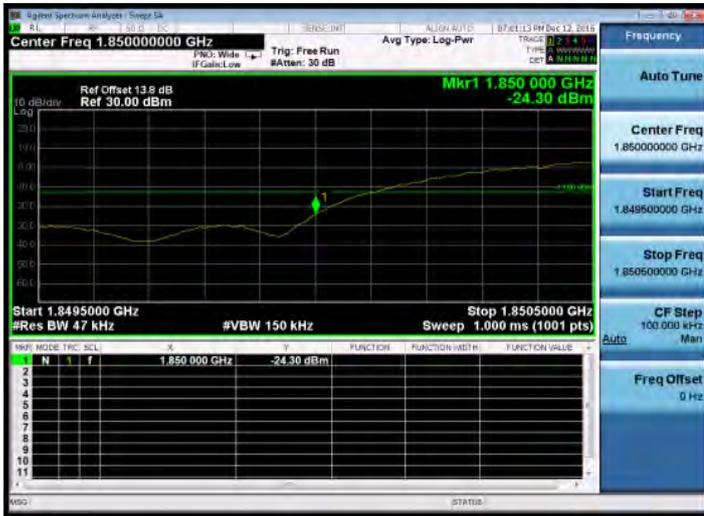


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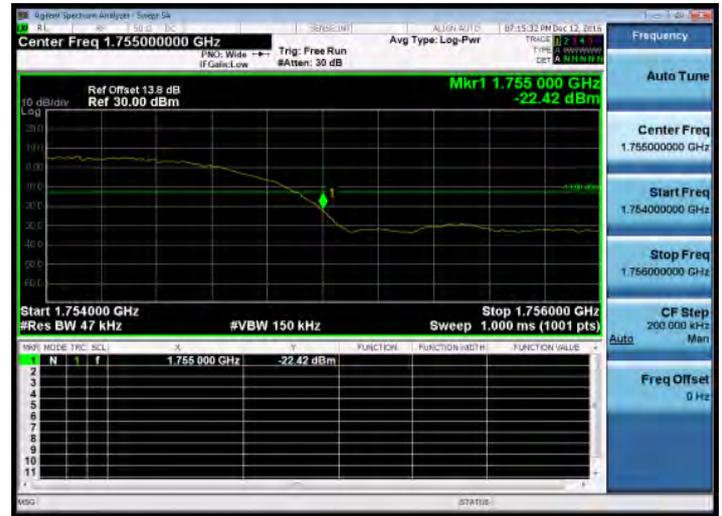
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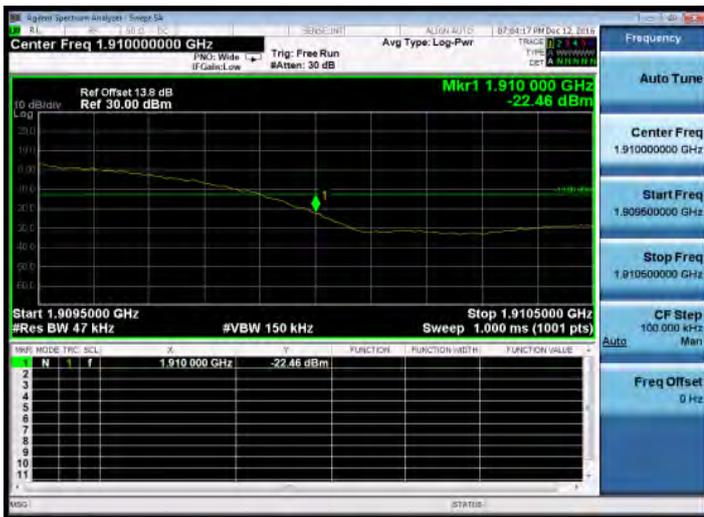
Band Edge\_HSUPA\_B2\_LowCH9262-1852.4



Band Edge\_WCDMA\_B4\_HighCH1513-1752.6



Band Edge\_HSUPA\_B2\_HighCH9538-1907.6



Band Edge\_HSDPA\_B4\_LowCH1312-1712.4



Band Edge\_WCDMA\_B4\_LowCH1312-1712.4



Band Edge\_HSDPA\_B4\_HighCH1513-1752.6



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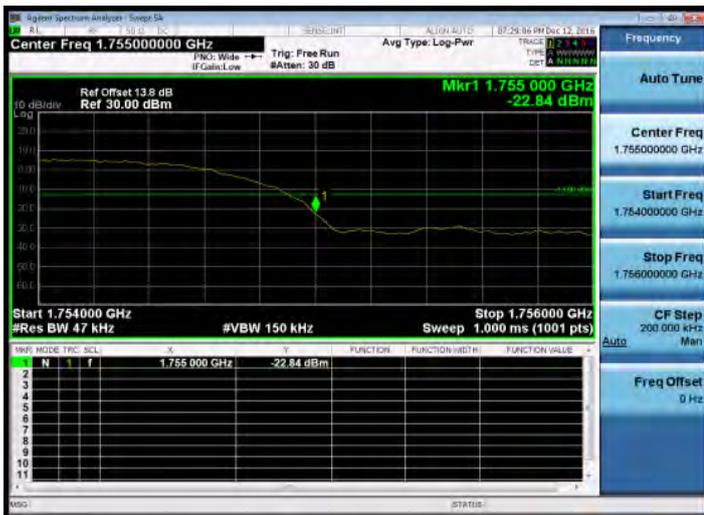
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Band Edge\_WCDMA\_B5\_HighCH4233-846.6



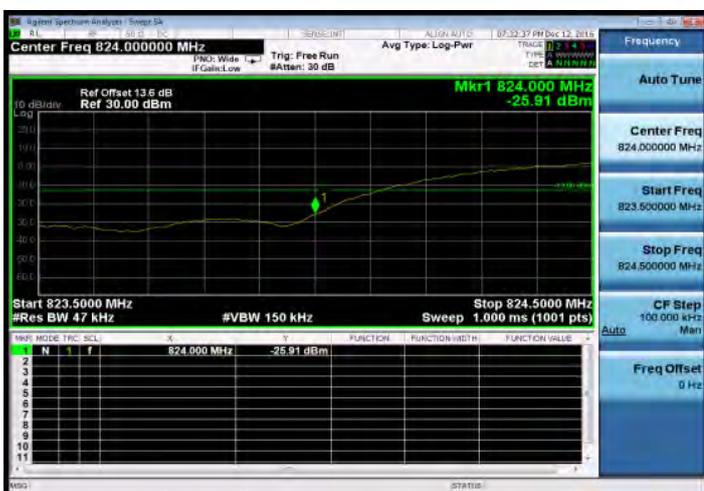
Band Edge\_HSUPA\_B4\_HighCH1513-1752.6

Band Edge\_HSDPA\_B5\_LowCH4132-826.4



Band Edge\_WCDMA\_B5\_LowCH4132-826.4

Band Edge\_HSDPA\_B5\_HighCH4233-846.6



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Band Edge\_HSUPA\_B5\_LowCH4132-826.4



Band Edge\_HSUPA\_B5\_HighCH4233-846.6



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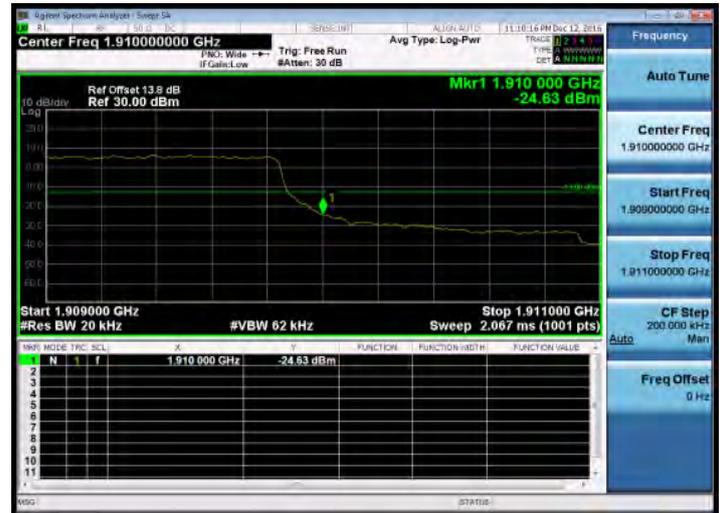
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Band Edge\_Band2\_1.4MHz\_QPSK\_1\_0\_LowCH18607-1850.7



Band Edge\_Band2\_1.4MHz\_QPSK\_6\_0\_HighCH19193-1909.3



Band Edge\_Band2\_1.4MHz\_QPSK\_1\_5\_HighCH19193-1909.3



Band Edge\_Band2\_3MHz\_QPSK\_1\_0\_LowCH18615-1851.5



Band Edge\_Band2\_1.4MHz\_QPSK\_6\_0\_LowCH18607-1850.7



Band Edge\_Band2\_3MHz\_QPSK\_15\_0\_LowCH18615-1851.5



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Band Edge\_Band2\_3MHz\_QPSK\_15\_0\_HighCH19185-1908.5



Band Edge\_Band2\_5MHz\_QPSK\_25\_0\_LowCH18625-1852.5



Band Edge\_Band2\_5MHz\_QPSK\_1\_0\_LowCH18625-1852.5



Band Edge\_Band2\_5MHz\_QPSK\_25\_0\_HighCH19175-1907.5



Band Edge\_Band2\_5MHz\_QPSK\_1\_24\_HighCH19175-1907.5



Band Edge\_Band2\_10MHz\_QPSK\_1\_0\_LowCH18650-1855



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Band Edge\_Band2\_10MHz\_QPSK\_1\_49\_HighCH19150-1905



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Band Edge\_Band2\_10MHz\_QPSK\_50\_0\_LowCH18650-1855



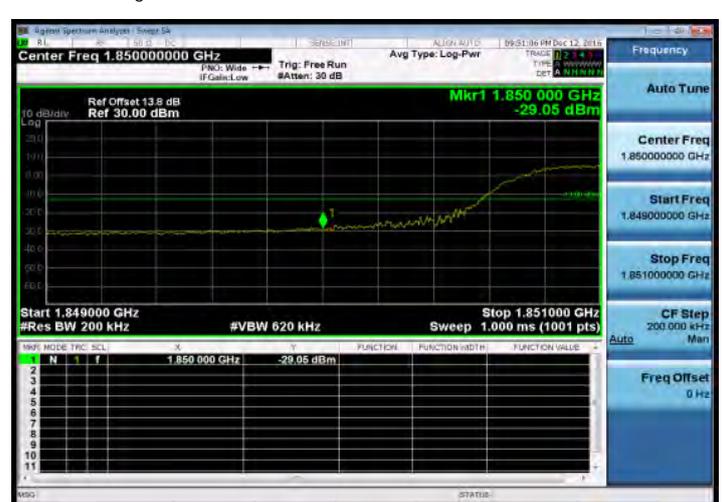
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Band Edge\_Band2\_10MHz\_QPSK\_50\_0\_HighCH19150-1905



Band Edge\_Band2\_15MHz\_QPSK\_75\_0\_LowCH18675-1857.5



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Band Edge\_Band2\_15MHz\_QPSK\_75\_0\_HighCH19125-1902.5



Band Edge\_Band2\_20MHz\_QPSK\_100\_0\_LowCH18700-1860



Band Edge\_Band2\_20MHz\_QPSK\_1\_0\_LowCH18700-1860



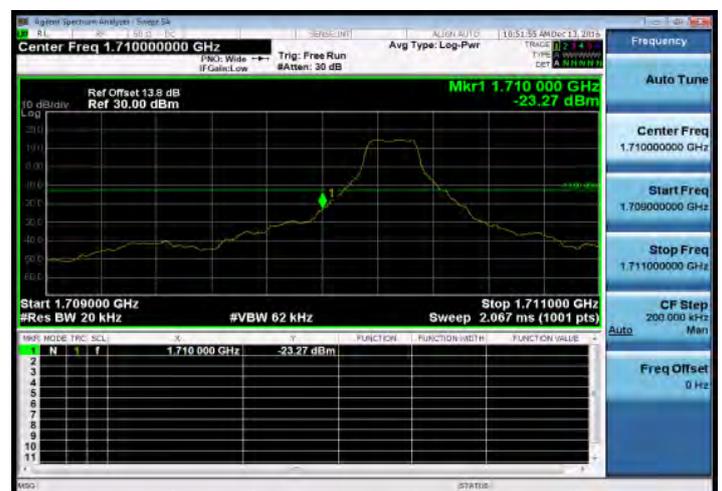
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Band Edge\_Band2\_20MHz\_QPSK\_1\_99\_HighCH19100-1900



Band Edge\_Band4\_1.4MHz\_QPSK\_1\_0\_LowCH19957-1710.7



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Band Edge\_Band4\_3MHz\_QPSK\_1\_0\_LowCH19965-1711.5



Band Edge\_Band4\_1.4MHz\_QPSK\_6\_0\_LowCH19957-1710.7



Band Edge\_Band4\_3MHz\_QPSK\_1\_14\_HighCH20385-1753.5



Band Edge\_Band4\_1.4MHz\_QPSK\_6\_0\_HighCH20393-1754.3



Band Edge\_Band4\_3MHz\_QPSK\_15\_0\_LowCH19965-1711.5



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Band Edge\_Band4\_5MHz\_QPSK\_25\_0\_LowCH19975-1712.5



Band Edge\_Band4\_5MHz\_QPSK\_1\_0\_LowCH19975-1712.5



Band Edge\_Band4\_5MHz\_QPSK\_25\_0\_HighCH20375-1752.5



Band Edge\_Band4\_5MHz\_QPSK\_1\_24\_HighCH20375-1752.5



Band Edge\_Band4\_10MHz\_QPSK\_1\_0\_LowCH20000-1715



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Band Edge\_Band4\_10MHz\_QPSK\_1\_49\_HighCH20350-1750



Band Edge\_Band4\_15MHz\_QPSK\_1\_0\_LowCH20025-1717.5



Band Edge\_Band4\_10MHz\_QPSK\_50\_0\_LowCH20000-1715



Band Edge\_Band4\_15MHz\_QPSK\_1\_74\_HighCH20325-1747.5



Band Edge\_Band4\_10MHz\_QPSK\_50\_0\_HighCH20350-1750



Band Edge\_Band4\_15MHz\_QPSK\_75\_0\_LowCH20025-1717.5



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Band Edge\_Band4\_20MHz\_QPSK\_100\_0\_LowCH20050-1720



Band Edge\_Band4\_20MHz\_QPSK\_1\_0\_LowCH20050-1720



Band Edge\_Band4\_20MHz\_QPSK\_100\_0\_HighCH20300-1745



Band Edge\_Band4\_20MHz\_QPSK\_1\_99\_HighCH20300-1745



Band Edge\_Band5\_1.4MHz\_QPSK\_1\_0\_LowCH20407-824.7



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Band Edge\_Band5\_1.4MHz\_QPSK\_1\_5\_HighCH20643-848.3



Band Edge\_Band5\_3MHz\_QPSK\_1\_0\_LowCH20415-825.5



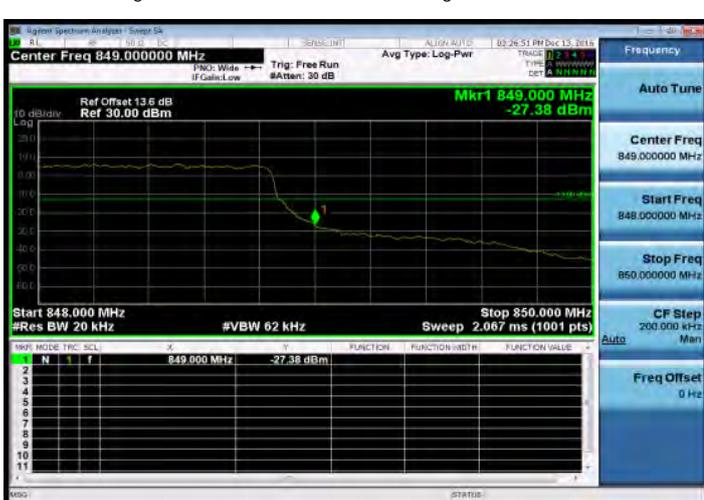
Band Edge\_Band5\_1.4MHz\_QPSK\_6\_0\_LowCH20407-824.7



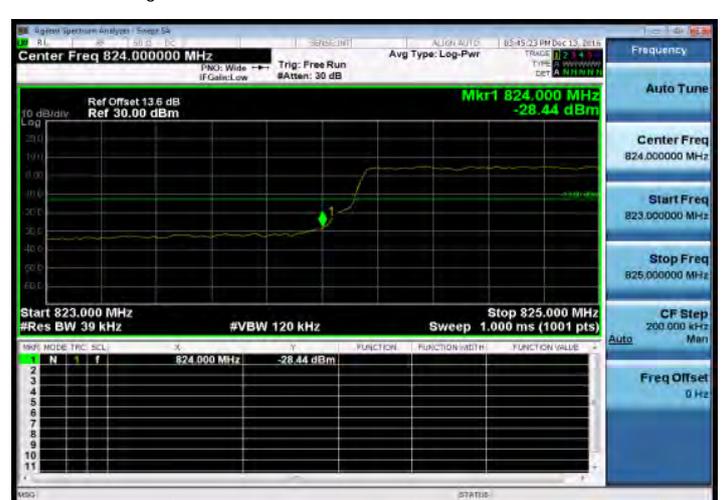
Band Edge\_Band5\_3MHz\_QPSK\_1\_14\_HighCH20635-847.5



Band Edge\_Band5\_1.4MHz\_QPSK\_6\_0\_HighCH20643-848.3



Band Edge\_Band5\_3MHz\_QPSK\_15\_0\_LowCH20415-825.5



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Band Edge\_Band5\_3MHz\_QPSK\_15\_0\_HighCH20635-847.5



Band Edge\_Band5\_5MHz\_QPSK\_25\_0\_LowCH20425-826.5



Band Edge\_Band5\_5MHz\_QPSK\_1\_0\_LowCH20425-826.5



Band Edge\_Band5\_5MHz\_QPSK\_25\_0\_HighCH20625-846.5



Band Edge\_Band5\_5MHz\_QPSK\_1\_24\_HighCH20625-846.5



Band Edge\_Band5\_10MHz\_QPSK\_1\_0\_LowCH20450-829



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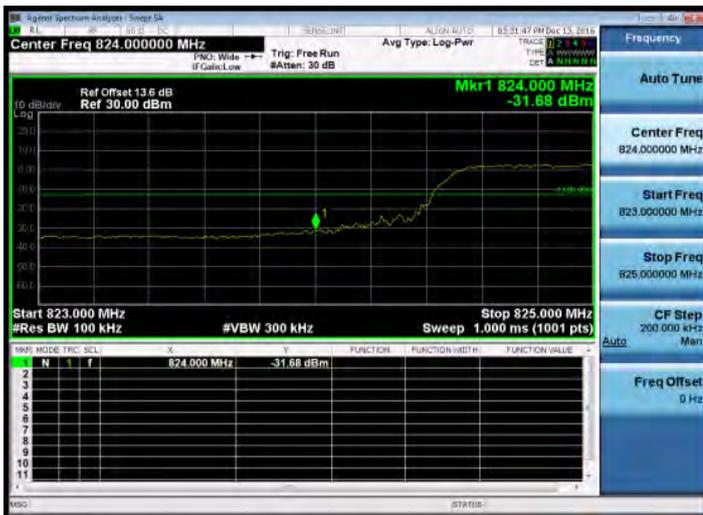
Band Edge\_Band5\_10MHz\_QPSK\_1\_49\_HighCH20600-844



Band Edge\_Band12\_1.4MHz\_QPSK\_1\_0\_LowCH23017-699.7



Band Edge\_Band5\_10MHz\_QPSK\_50\_0\_LowCH20450-829



Band Edge\_Band12\_1.4MHz\_QPSK\_1\_5\_HighCH23173-715.3



Band Edge\_Band5\_10MHz\_QPSK\_50\_0\_HighCH20600-844



Band Edge\_Band12\_1.4MHz\_QPSK\_6\_0\_LowCH23017-699.7



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Band Edge\_Band12\_1.4MHz\_QPSK\_6\_0\_HighCH23173-715.3



Band Edge\_Band12\_3MHz\_QPSK\_15\_0\_LowCH23025-700.5



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



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Band Edge\_Band12\_5MHz\_QPSK\_1\_24\_HighCH23155-713.5



Band Edge\_Band12\_10MHz\_QPSK\_1\_0\_LowCH23060-704



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



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Band Edge\_Band12\_10MHz\_QPSK\_50\_0\_HighCH23130-711



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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.

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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	$43 + 10 \log_{10}(p)$ <sup>Note</sup>
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	$43 + 10 \log_{10}(p)$ <sup>Note</sup>
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 5.2 for the permitted frequency ranges for various equipment types.

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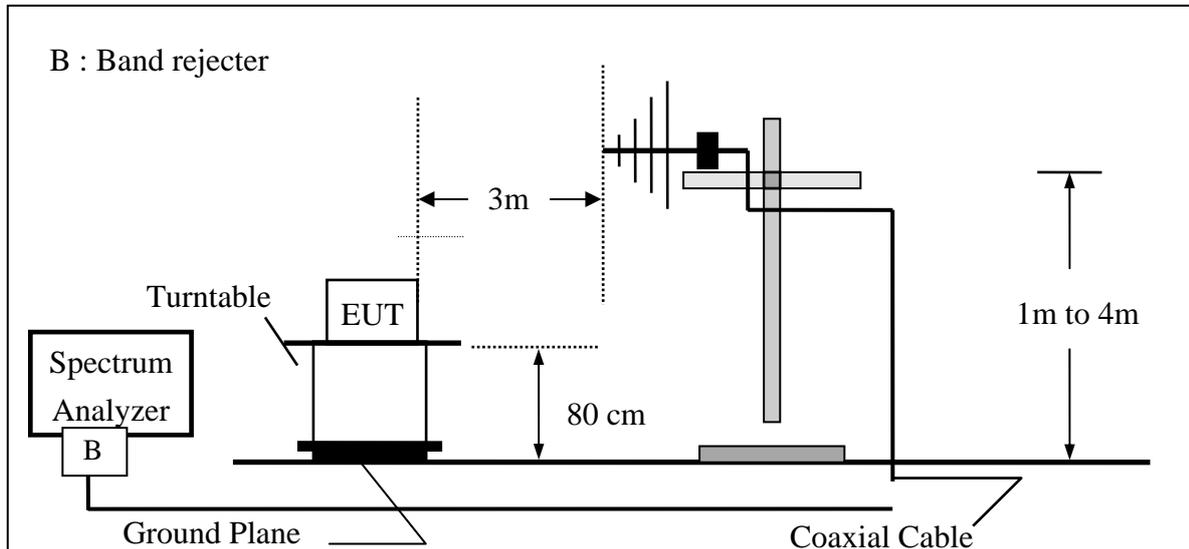
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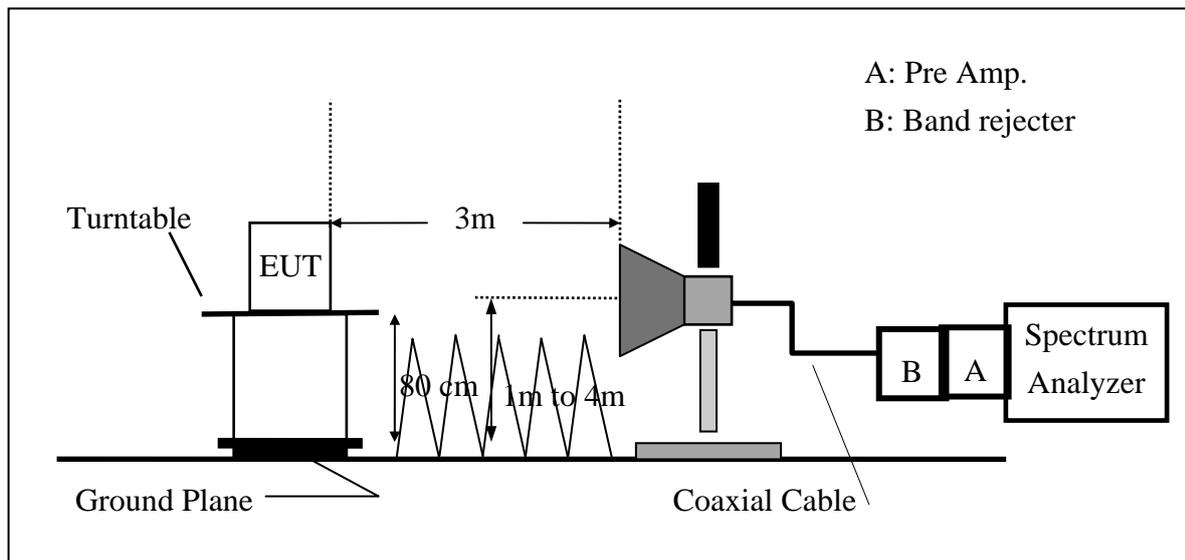
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## 10.2. EUT Setup

### 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.

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

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

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	ESU 40	100363	04/12/2016	04/11/2017
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Broadband Antenna	TESEQ	CBL 6112D	35243	11/09/2016	11/08/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	ETS-Lindgren	3117	143279	11/14/2016	11/13/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2016	12/10/2017
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2016	07/23/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-26	100780	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017

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EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2016	05/24/2017
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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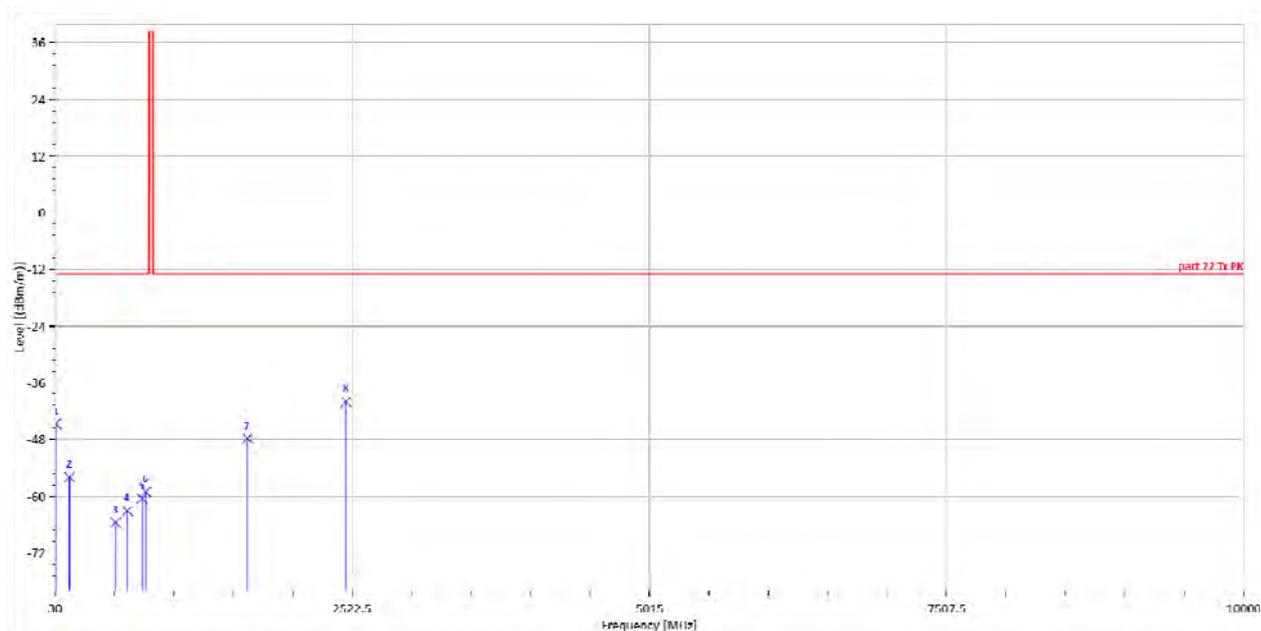
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## 10.5. Measurement Result:

### Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode :	2G850	Test Date :	2016/12/22
Fundamental Frequency :	824.2 MHz	Temp. / Humi. :	22.3deg_C/64RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
37.76	S	-44.67	-28.16	-15.82	-0.70	-13	-31.67
151.25	S	-56.00	-55.21	0.51	-1.31	-13	-43.00
537.31	S	-65.62	-67.26	4.26	-2.62	-13	-52.62
637.22	S	-63.11	-64.98	4.87	-3.00	-13	-50.11
761.38	S	-60.53	-62.77	5.48	-3.24	-13	-47.53
792.42	S	-59.11	-61.33	5.51	-3.29	-13	-46.11
1644.00	H	-47.82	-49.84	6.74	-4.71	-13	-34.82
2470.00	H	-40.03	-42.42	8.23	-5.84	-13	-27.03

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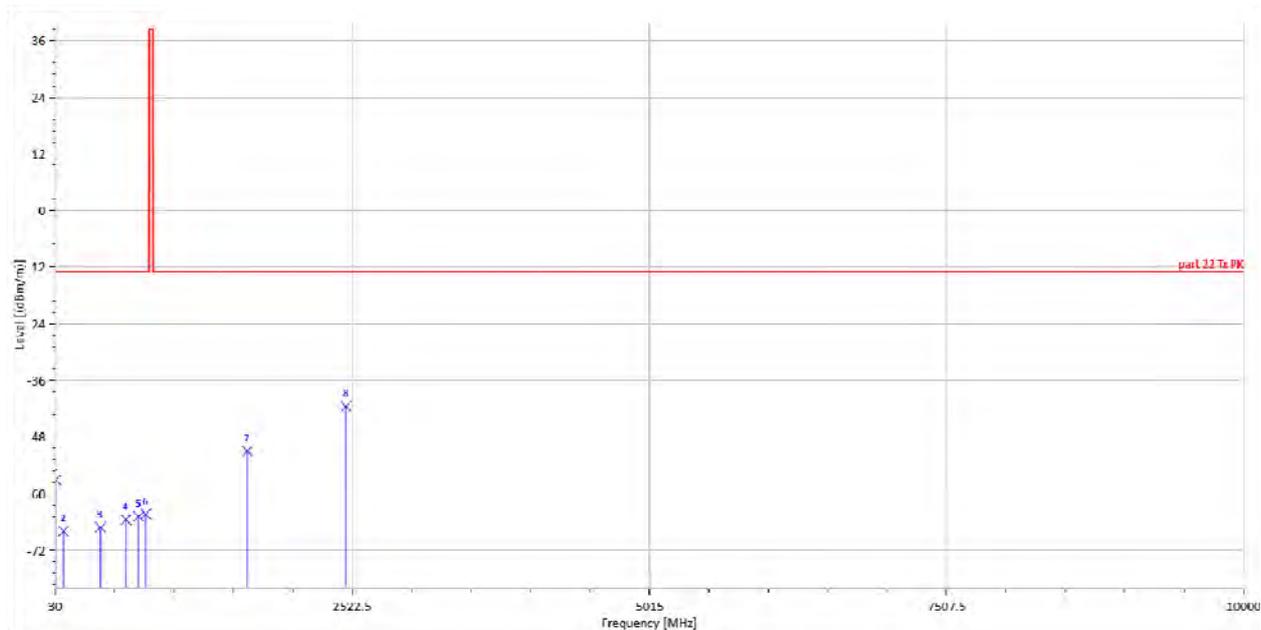
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Operation Mode : 2G850      Test Date : 2016/12/22  
 Fundamental Frequency : 824.2 MHz      Temp. / Humi. : 22.3deg\_C/64RH  
 Operation Band : Tx CH Low      Test Engineer : Ashton  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
35.82	S	-57.05	-38.93	-17.39	-0.73	-13	-44.05
100.81	S	-67.92	-63.67	-3.07	-1.17	-13	-54.92
411.21	S	-67.16	-68.69	3.72	-2.19	-13	-54.16
624.61	S	-65.48	-67.14	4.82	-3.16	-13	-52.48
730.34	S	-64.83	-66.98	5.46	-3.31	-13	-51.83
791.45	S	-64.30	-66.39	5.51	-3.42	-13	-51.30
1644.00	H	-50.96	-52.98	6.74	-4.71	-13	-37.96
2470.00	H	-41.50	-43.89	8.23	-5.84	-13	-28.50

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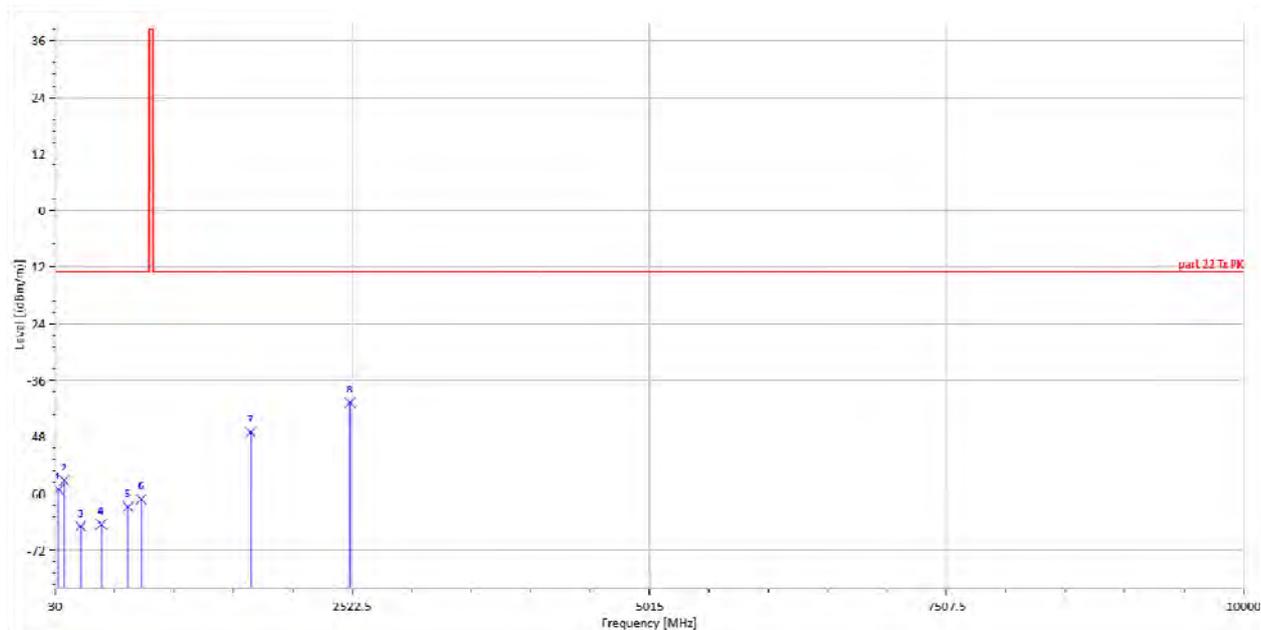
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Operation Mode : 2G850      Test Date : 2016/12/22  
 Fundamental Frequency : 836.6 MHz      Temp. / Humi. : 22.3deg\_C/64RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
59.10	S	-59.05	-54.75	-3.44	-0.87	-13	-46.05
106.63	S	-57.23	-52.73	-3.29	-1.21	-13	-44.23
245.34	S	-66.88	-68.39	3.33	-1.82	-13	-53.88
418.97	S	-66.48	-67.83	3.80	-2.45	-13	-53.48
642.07	S	-62.77	-64.92	4.89	-2.74	-13	-49.77
752.65	S	-61.15	-63.51	5.46	-3.11	-13	-48.15
1672.00	H	-46.95	-49.01	6.83	-4.78	-13	-33.95
2505.00	H	-40.68	-43.05	8.26	-5.89	-13	-27.68

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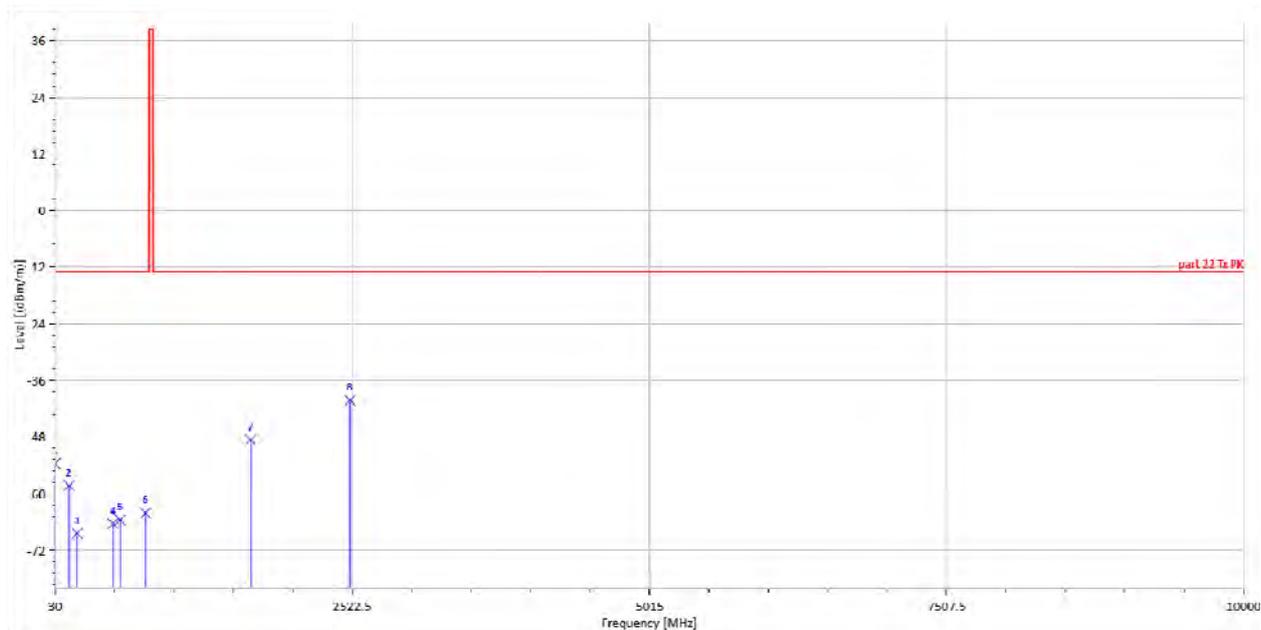
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Operation Mode : 2G850      Test Date : 2016/12/22  
 Fundamental Frequency : 836.6 MHz      Temp. / Humi. : 22.3deg\_C/64RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



Freq.	Note	ERP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@3m dBm/m	dB
30.97	S	-53.63	-31.42	-21.56	-0.65	-13	-40.63
147.37	S	-58.31	-56.93	0.01	-1.40	-13	-45.31
214.30	S	-68.39	-70.80	4.12	-1.71	-13	-55.39
515.97	S	-66.33	-68.22	4.25	-2.35	-13	-53.33
576.11	S	-65.54	-67.36	4.51	-2.69	-13	-52.54
790.48	S	-64.09	-66.09	5.51	-3.52	-13	-51.09
1672.00	H	-48.55	-50.60	6.83	-4.78	-13	-35.55
2505.00	H	-40.20	-42.57	8.26	-5.89	-13	-27.20

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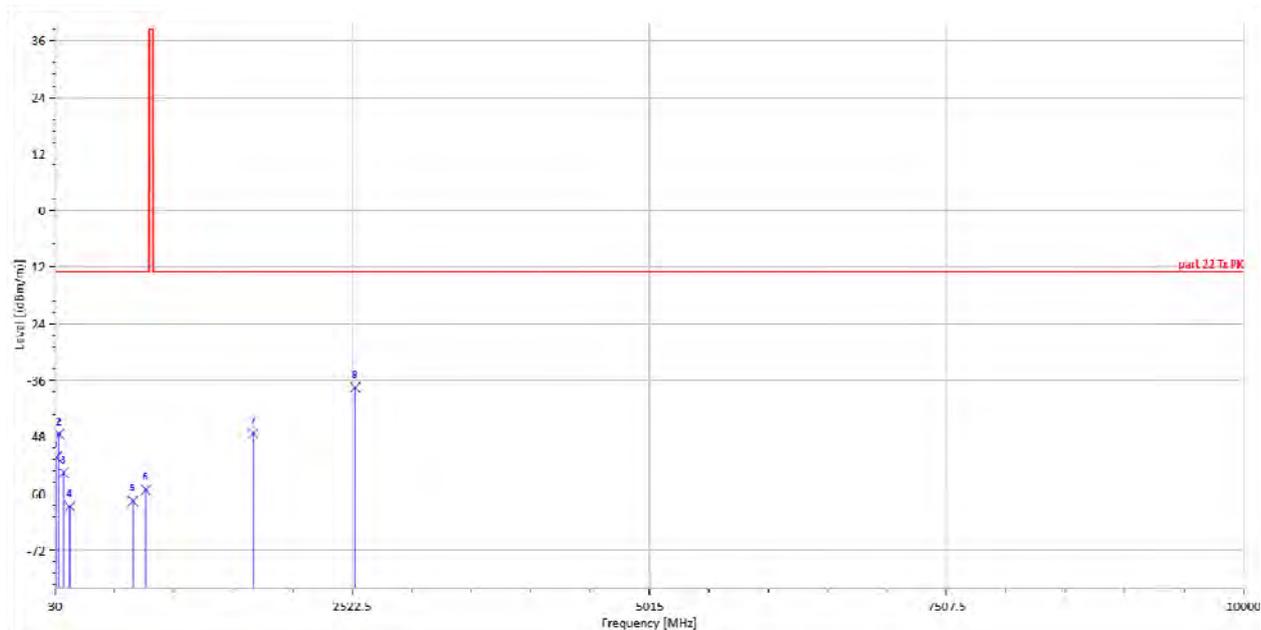
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Operation Mode : 2G850      Test Date : 2016/12/22  
 Fundamental Frequency : 848.8 MHz      Temp. / Humi. : 22.3deg\_C/64RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : H      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
38.73	S	-52.22	-36.49	-15.03	-0.70	-13	-39.22
62.01	S	-47.40	-43.60	-2.81	-1.00	-13	-34.40
100.81	S	-55.56	-51.31	-3.07	-1.17	-13	-42.56
154.16	S	-62.76	-62.00	0.82	-1.58	-13	-49.76
683.78	S	-61.52	-63.81	5.29	-3.00	-13	-48.52
792.42	S	-59.12	-61.35	5.51	-3.29	-13	-46.12
1693.00	H	-47.28	-49.39	6.91	-4.80	-13	-34.28
2547.00	H	-37.47	-39.89	8.33	-5.91	-13	-24.47

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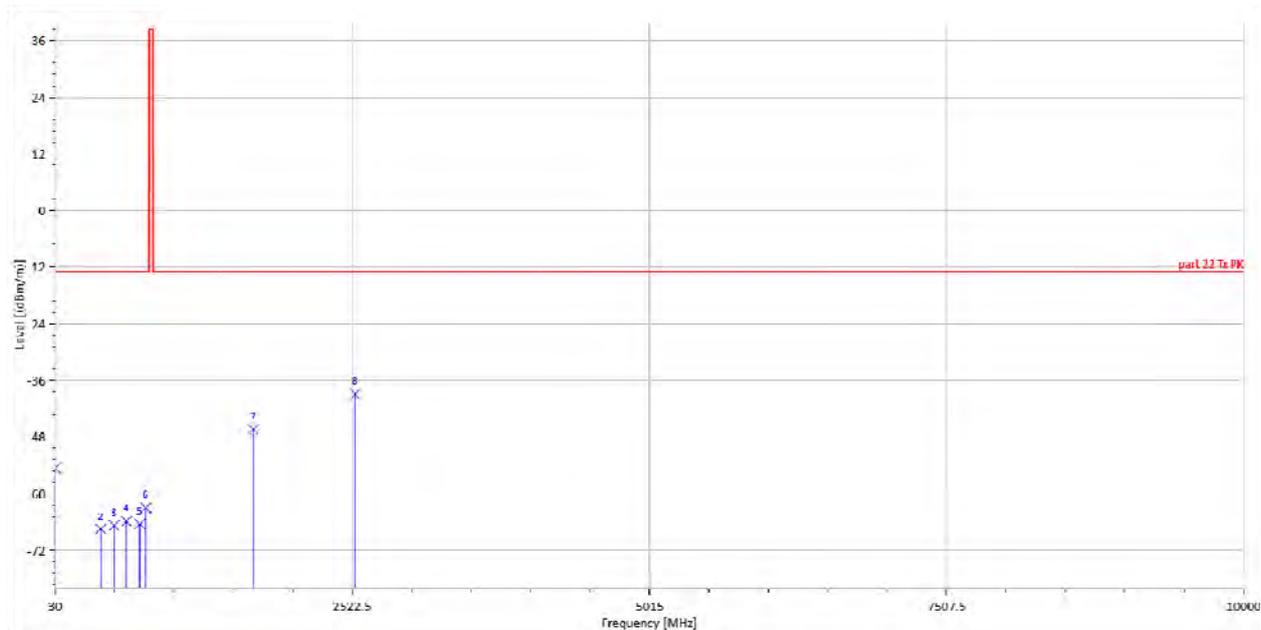
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Operation Mode : 2G850      Test Date : 2016/12/22  
 Fundamental Frequency : 848.8 MHz      Temp. / Humi. : 22.3deg\_C/64RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : H      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
30.97	S	-54.54	-32.34	-21.56	-0.65	-13	-41.54
414.12	S	-67.45	-68.96	3.75	-2.24	-13	-54.45
525.67	S	-66.73	-68.63	4.25	-2.36	-13	-53.73
628.49	S	-65.83	-67.73	4.83	-2.93	-13	-52.83
741.01	S	-66.40	-68.68	5.46	-3.19	-13	-53.40
790.48	S	-62.96	-64.96	5.51	-3.52	-13	-49.96
1693.00	H	-46.38	-48.49	6.91	-4.80	-13	-33.38
2547.00	H	-38.92	-41.34	8.33	-5.91	-13	-25.92

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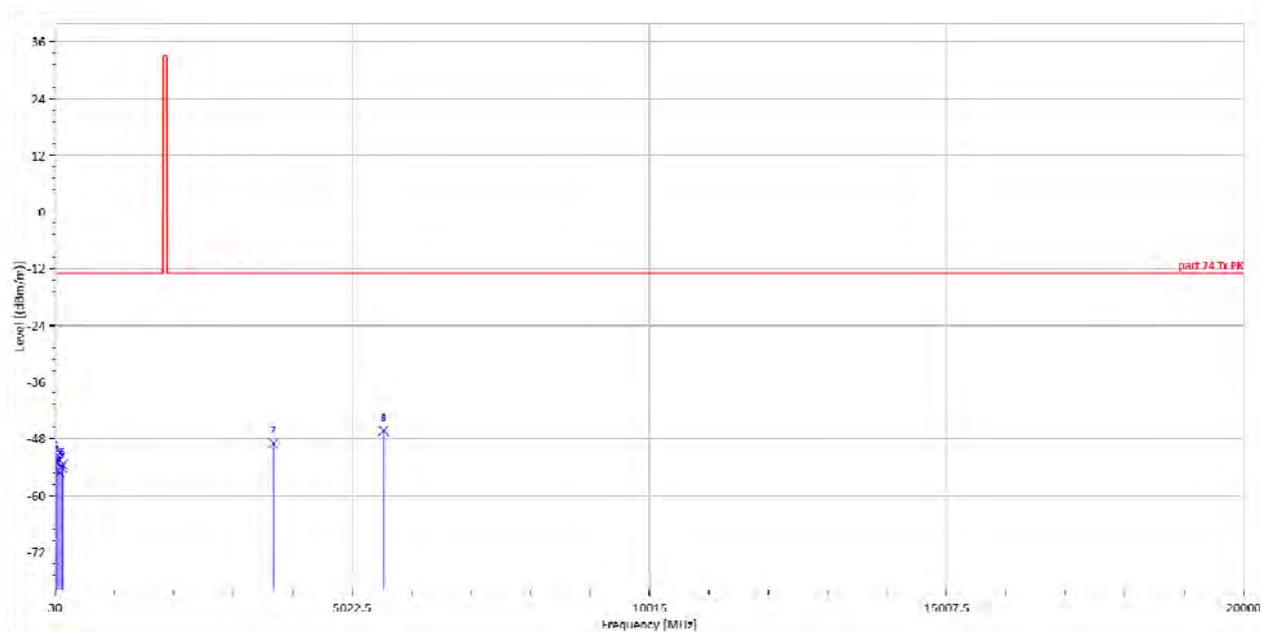
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### Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

Operation Mode :	2G1900	Test Date :	2016/12/22
Fundamental Frequency :	1850.2 MHz	Temp. / Humi. :	22.3deg_C/64RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level dBm	Gain dBi	Loss dB	@ 3m dBm/m	dB
59.10	S	-36.67	-34.52	-1.29	-0.87	-13.01	-23.66
66.86	S	-47.13	-46.17	-0.01	-0.95	-13.01	-34.12
172.59	S	-44.92	-48.31	4.98	-1.58	-13.01	-31.91
211.39	S	-40.16	-44.58	6.12	-1.71	-13.01	-27.15
268.62	S	-53.25	-56.61	5.32	-1.96	-13.01	-40.24
349.13	S	-58.89	-62.70	5.89	-2.08	-13.01	-45.88
3700.40	H	-49.43	-54.58	12.30	-7.15	-13.01	-36.42
5550.60	H	-40.22	-44.14	12.62	-8.70	-13.01	-27.21

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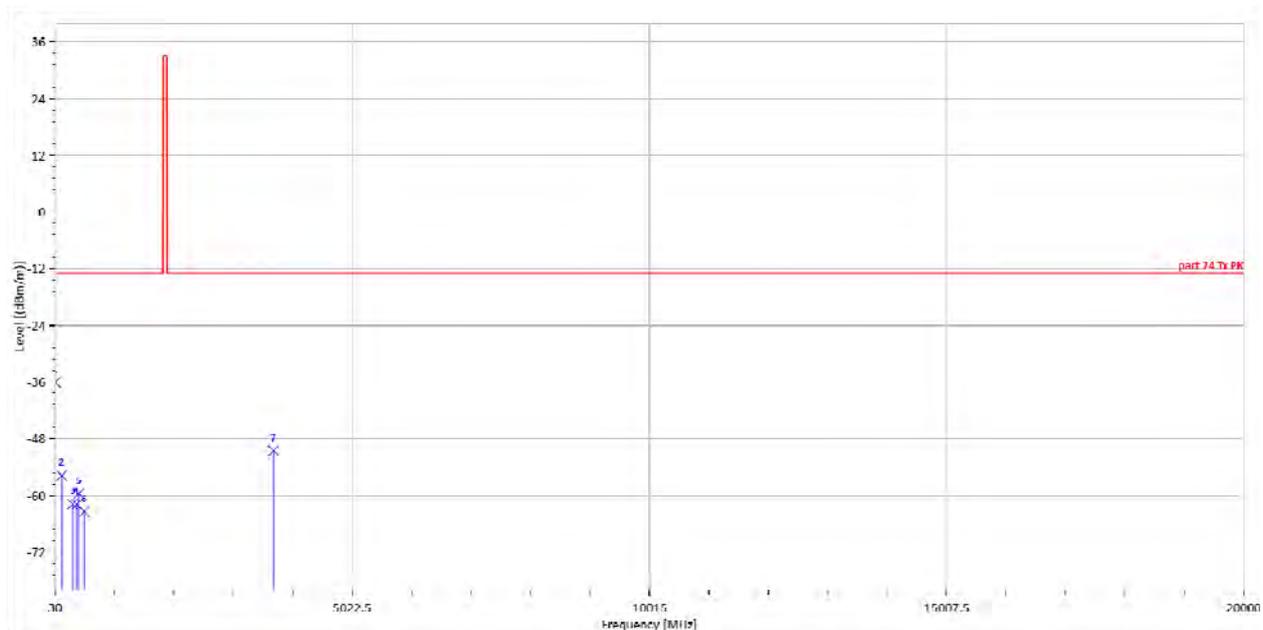
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Operation Mode :	2G1900	Test Date :	2016/12/22
Fundamental Frequency :	1850.2 MHz	Temp. / Humi. :	22.3deg_C/64RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
34.85	S	-36.03	-19.29	-16.04	-0.71	-13.01	-23.02
142.52	S	-55.82	-56.00	1.49	-1.31	-13.01	-42.81
324.88	S	-61.88	-65.58	5.92	-2.22	-13.01	-48.87
393.75	S	-61.95	-65.47	5.77	-2.24	-13.01	-48.94
429.64	S	-59.60	-63.28	6.06	-2.39	-13.01	-46.59
520.82	S	-63.43	-67.12	6.40	-2.71	-13.01	-50.42
3700.40	H	-50.56	-55.71	12.30	-7.15	-13.01	-37.55

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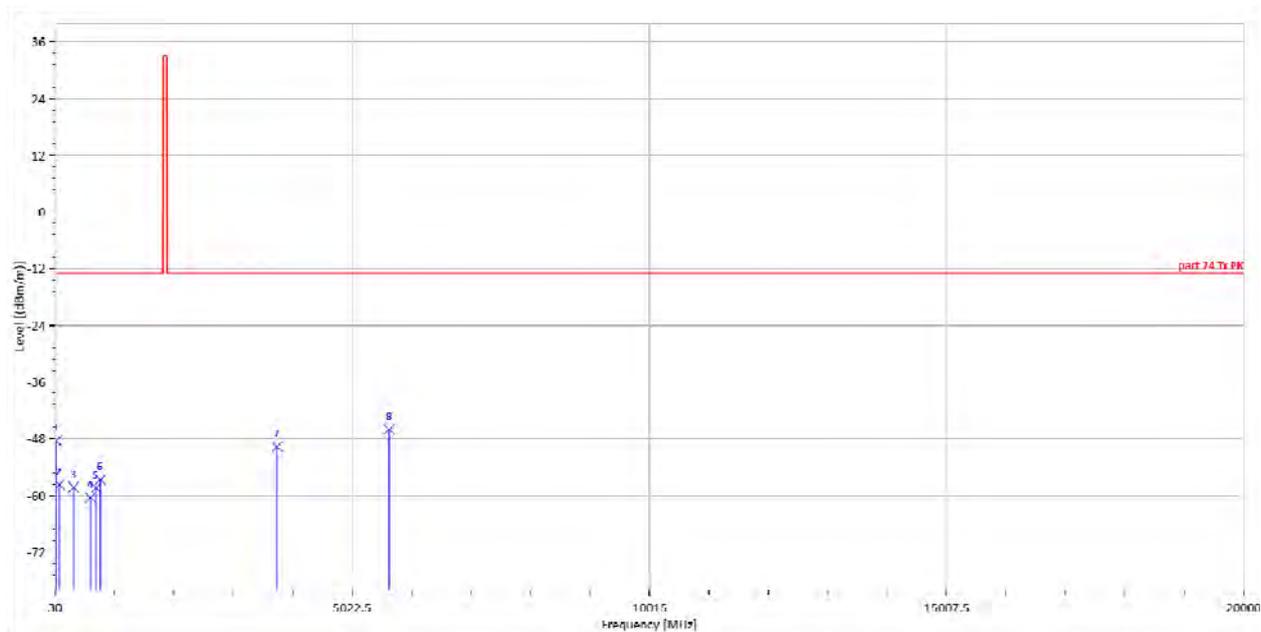
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Operation Mode : 2G1900      Test Date : 2016/12/22  
 Fundamental Frequency : 1880 MHz      Temp. / Humi. : 22.3deg\_C/64RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E1      Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@ 3m	dB
51.34	S	-48.45	-43.24	-4.38	-0.83	-13.01	-35.44
100.81	S	-57.75	-55.65	-0.92	-1.17	-13.01	-44.74
342.34	S	-58.30	-61.98	5.90	-2.22	-13.01	-45.29
623.64	S	-60.49	-64.42	6.97	-3.04	-13.01	-47.48
719.67	S	-58.43	-62.83	7.61	-3.21	-13.01	-45.42
791.45	S	-56.70	-60.95	7.66	-3.42	-13.01	-43.69
3760.00	H	-49.71	-54.81	12.30	-7.21	-13.01	-36.70
5641.00	H	-46.02	-49.87	12.66	-8.81	-13.01	-33.01

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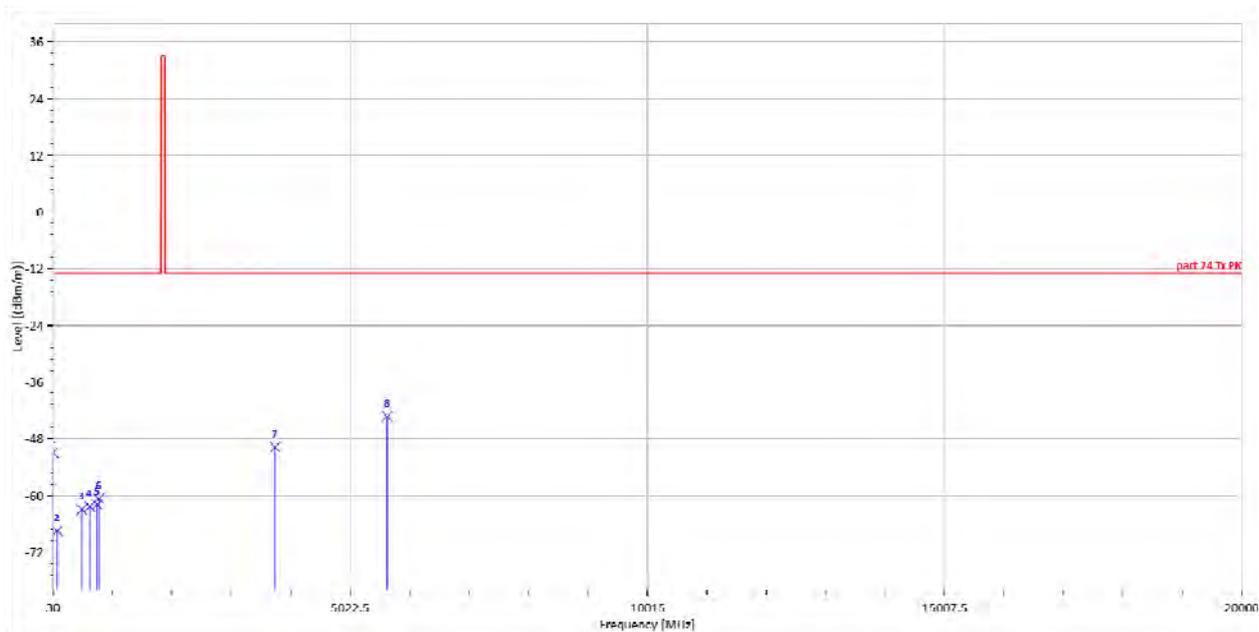
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Operation Mode : 2G1900 Test Date : 2016/12/22  
 Fundamental Frequency : 1880 MHz Temp. / Humi. : 22.3deg\_C/64RH  
 Operation Band : Tx CH Mid Test Engineer : Ashton  
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit @3m dBm/m	Margin dB
30.97	S	-50.90	-30.84	-19.41	-0.65	-13.01	-37.89
98.87	S	-67.54	-65.59	-0.79	-1.16	-13.01	-54.53
513.06	S	-62.99	-66.67	6.40	-2.72	-13.01	-49.98
646.92	S	-62.39	-66.25	7.06	-3.19	-13.01	-49.38
772.05	S	-62.00	-66.31	7.64	-3.33	-13.01	-48.99
801.15	S	-60.74	-65.06	7.67	-3.35	-13.01	-47.73
3760.00	H	-49.85	-54.94	12.30	-7.21	-13.01	-36.84
5641.00	H	-43.30	-47.15	12.66	-8.81	-13.01	-30.29

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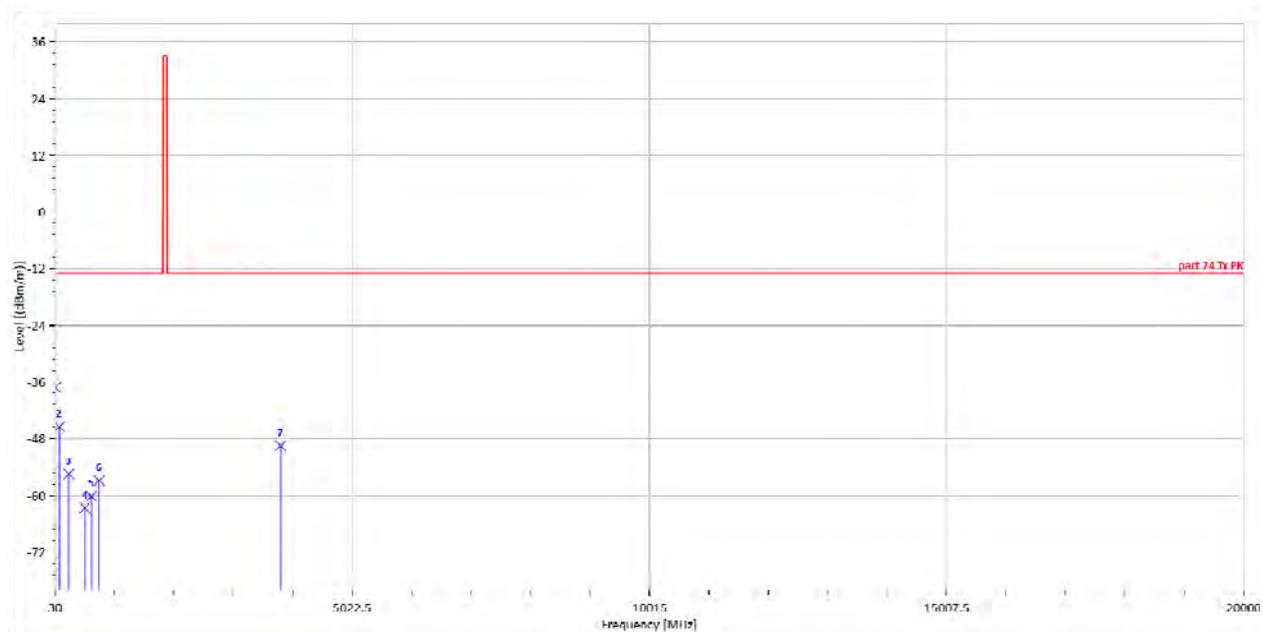
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Operation Mode : 2G1900      Test Date : 2016/12/22  
 Fundamental Frequency : 1909.8 MHz      Temp. / Humi. : 22.3deg\_C/64RH  
 Operation Band : Tx CH High      Test Engineer : Ashton  
 EUT Pol. : E1      Measurement Antenna Pol. : Vertical



Freq.	Note	EIRP	SG Output	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Level	Gain	Loss	@3m	dB
38.73	S	-37.18	-23.60	-12.88	-0.70	-13.01	-24.17
102.75	S	-45.48	-43.30	-0.99	-1.19	-13.01	-32.47
260.86	S	-55.50	-58.30	4.68	-1.88	-13.01	-42.49
531.49	S	-62.66	-66.17	6.41	-2.89	-13.01	-49.65
640.13	S	-60.22	-64.58	7.03	-2.67	-13.01	-47.21
771.08	S	-56.87	-61.12	7.64	-3.38	-13.01	-43.86
3819.60	H	-49.53	-54.56	12.30	-7.27	-13.01	-36.52

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