

9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

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).

§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).

FCC §27.53(c) (2) (4)

(c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(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;

FCC §27.53(c) (5) & FCC §27.53(g)

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

FCC §27.53(h)

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

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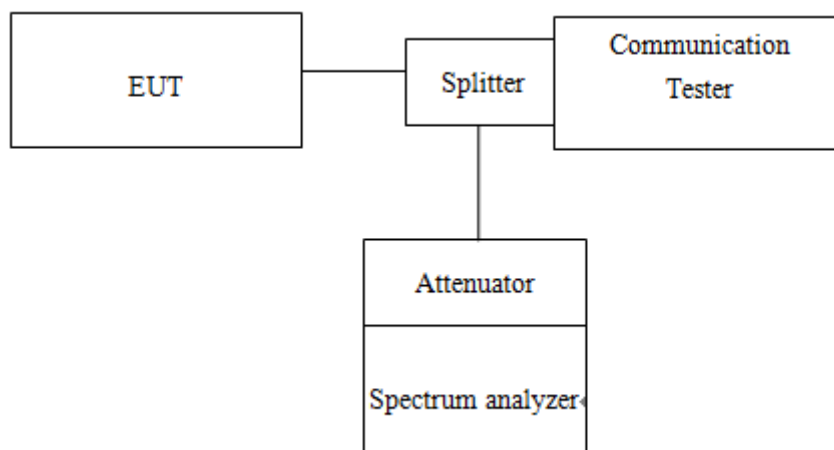
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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in § 27.53(m)(6). In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.

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

9.2. Test SET-UP



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9.3. Measurement Procedure

Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW \geq 1% EBW.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

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9.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017
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

9.5. Measurement Result:

Refer to next pages.

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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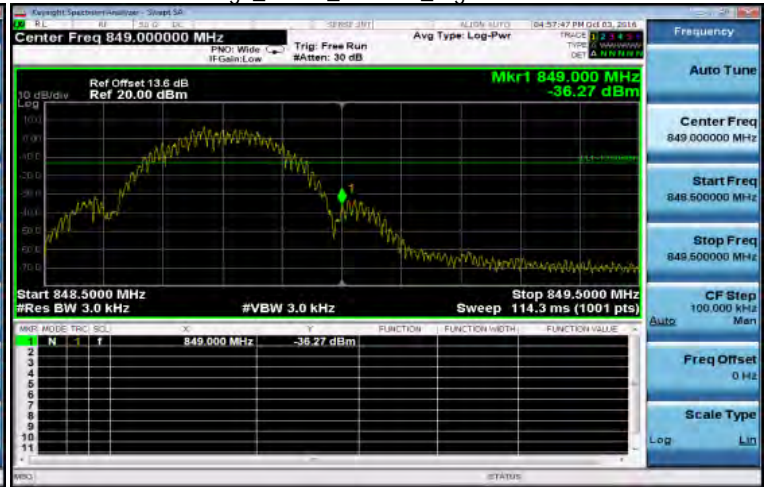
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Band Edge_GPRS_850MHz_LowCH128-824.2



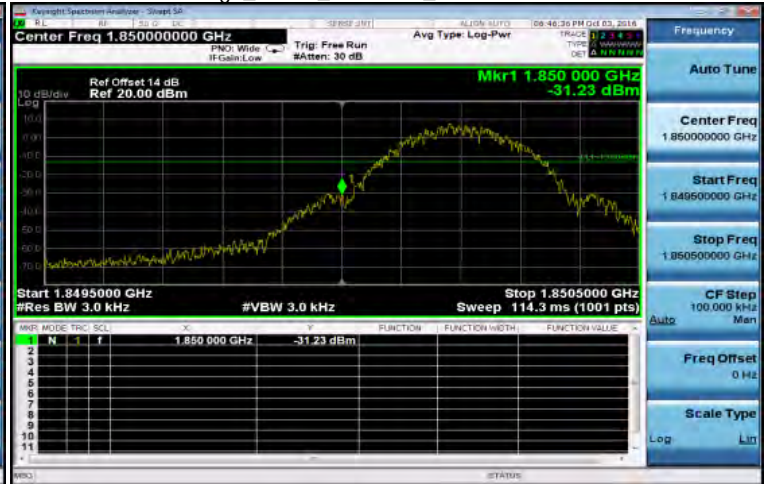
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Band Edge_GPRS_850MHz_HighCH251-848.8



Band Edge_GPRS_1900MHz_LowCH512-1850.2



Band Edge_EDGE_850MHz_LowCH128-824.2



Band Edge_GPRS_1900MHz_HighCH810-1909.8

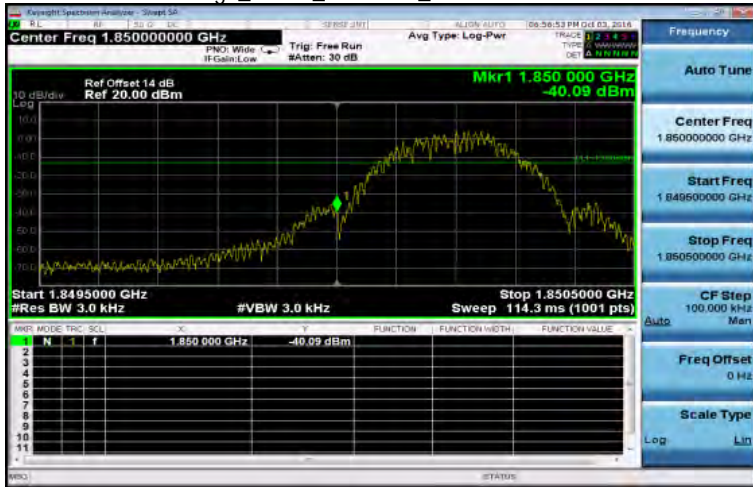


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Band Edge_EDGE_1900MHz_LowCH512-1850.2



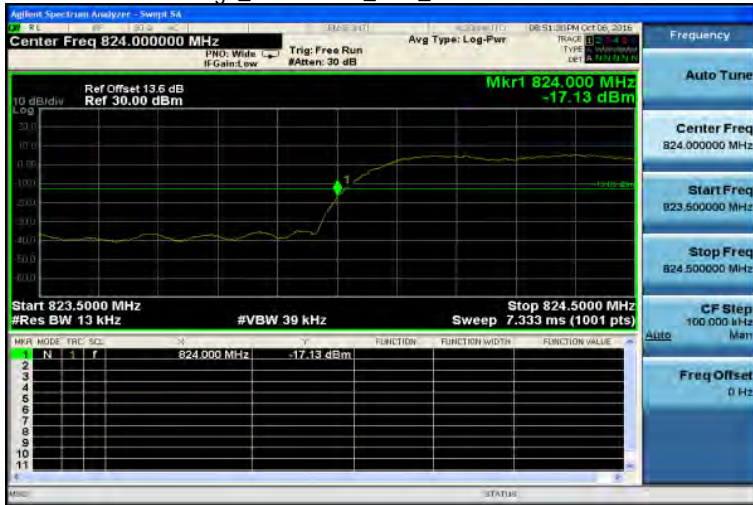
Band Edge_EDGE_1900MHz_HighCH810-1909.8



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Band Edge_CDMA2000_BC0_LowCH1013-824.7



Band Edge_EVDO_BC0_HighCH777-848.31



Band Edge_CDMA2000_BC0_HighCH777-848.31



Band Edge_CDMA2000_BC1_LowCH25-1851.3



Band Edge_EVDO_BC0_LowCH1013-824.7



Band Edge_CDMA2000_BC1_HighCH1175-1908.8



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Band Edge_EVDO_BC1_LowCH25-1851.3



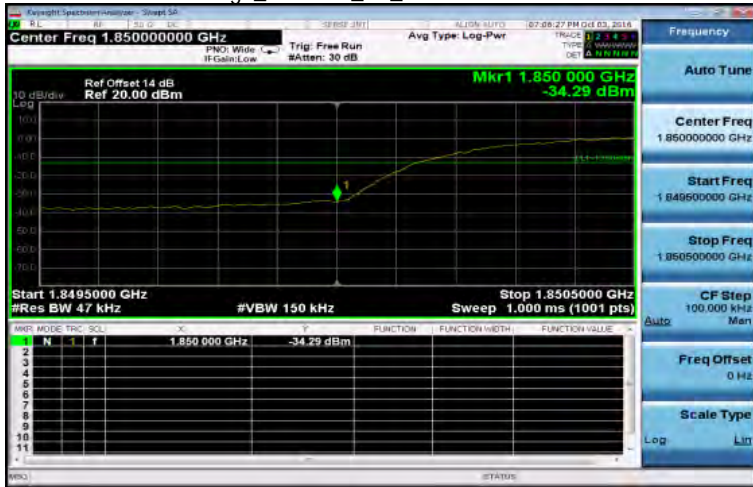
Band Edge_EVDO_BC1_HighCH1175-1908.8



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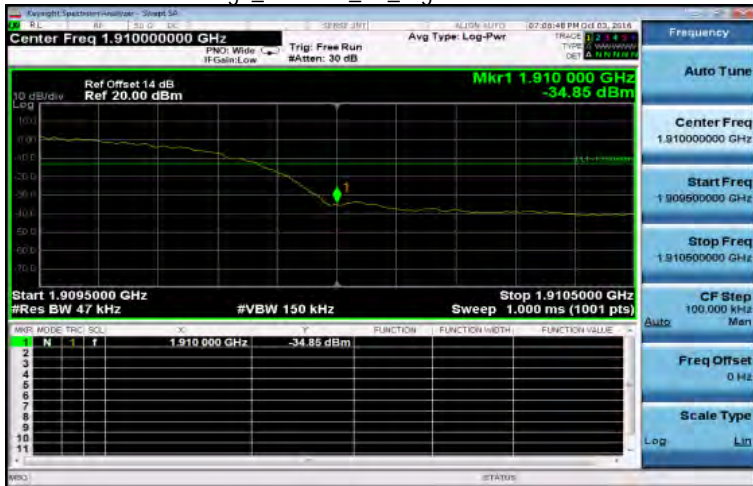
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Band Edge_HSDPA_B2_HighCH9538-1907.6



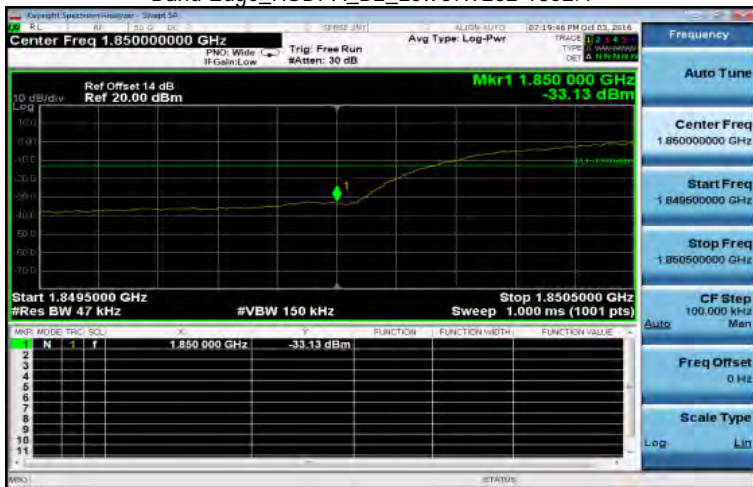
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Band Edge_HSUPA_B2_LowCH9262-1852.4



Band Edge_HSDPA_B2_LowCH9262-1852.4



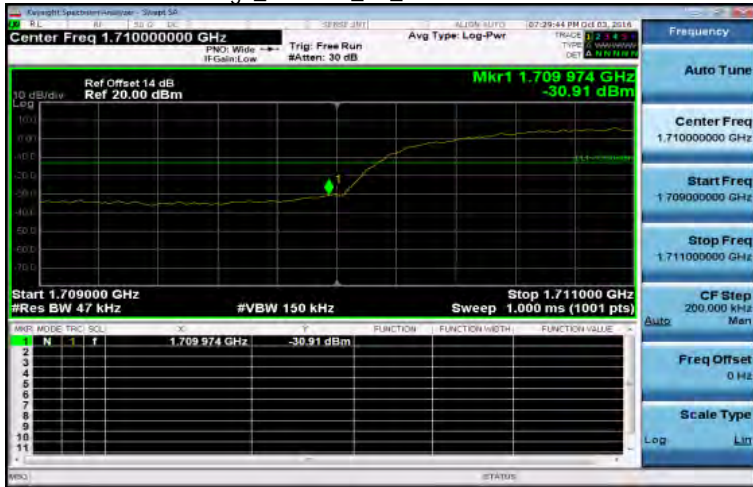
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Band Edge_HSDPA_B4_HighCH1513-1752.6



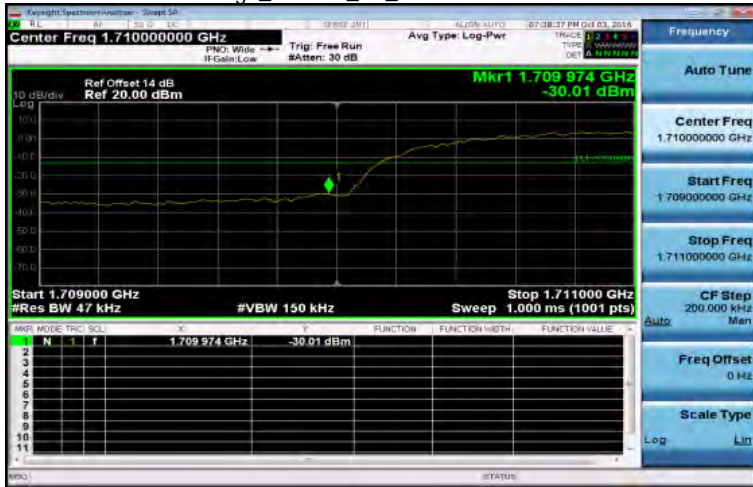
Band Edge_WCDMA_B4_HighCH1513-1752.6



Band Edge_HSUPA_B4_LowCH1312-1712.4



Band Edge_HSDPA_B4_LowCH1312-1712.4



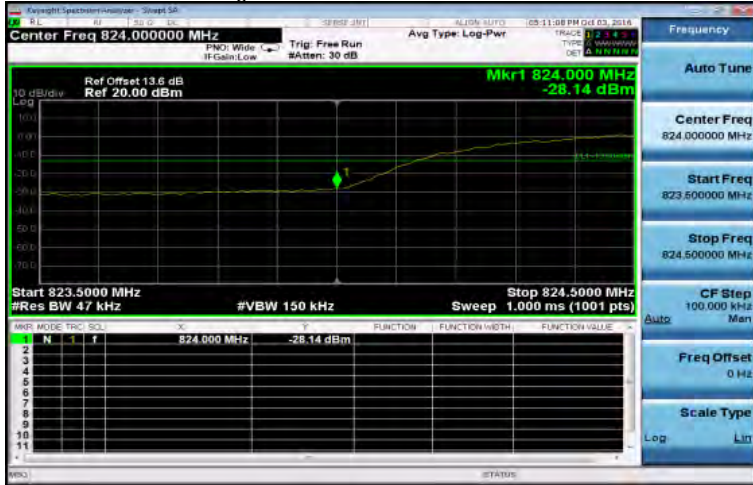
Band Edge_HSUPA_B4_HighCH1513-1752.6



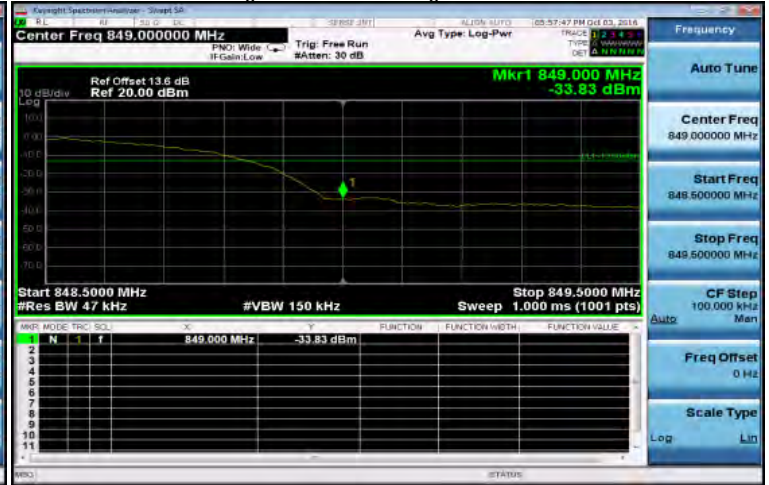
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Band Edge_HSDPA_B5_HighCH4233-846.6



Band Edge_WCDMA_B5_HighCH4233-846.6



Band Edge_HSUPA_B5_LowCH4132-826.4



Band Edge_HSDPA_B5_LowCH4132-826.4



Band Edge_HSUPA_B5_HighCH4233-846.6



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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 1 14_HighCH19185-1908.5



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Band Edge_Band2 3MHz_QPSK 15 0_LowCH18615-1851.5



Band Edge_Band2 5MHz_QPSK 1 24_HighCH19175-1907.5



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



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Band Edge_Band2 10MHz_QPSK 1 0_LowCH18650-1855



Band Edge_Band2 10MHz_QPSK 50 0_HighCH19150-1905



Band Edge_Band2 10MHz_QPSK 1 49_HighCH19150-1905



Band Edge_Band2 15MHz_QPSK 1 0_LowCH18675-1857.5



Band Edge_Band2 10MHz_QPSK 50 0_LowCH18650-1855



Band Edge_Band2 15MHz_QPSK 1 74_HighCH19125-1902.5



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Band Edge_Band2 15MHz_QPSK 75 0_LowCH18675-1857.5



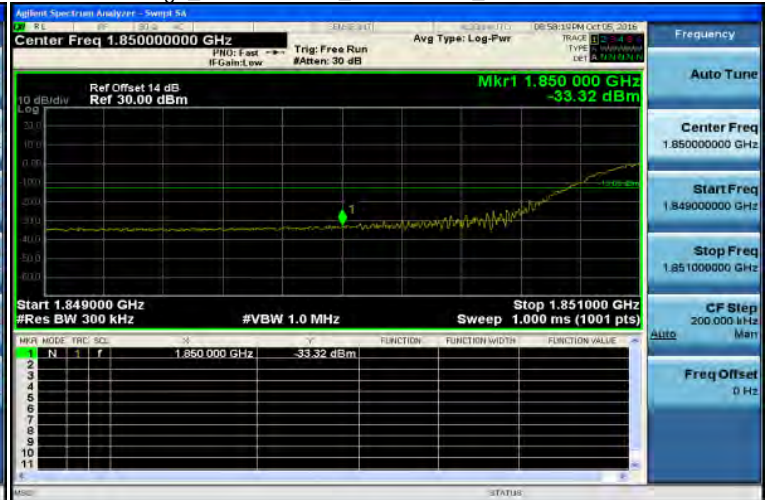
Band Edge_Band2 20MHz_QPSK 1 99_HighCH19100-1900



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



Band Edge_Band2 20MHz_QPSK 100 0_HighCH19100-1900



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Band Edge_Band4 1.4MHz_QPSK 1 0_LowCH19957-1710.7



Band Edge_Band4 1.4MHz_QPSK 6 0_HighCH20393-1754.3



Band Edge_Band4 1.4MHz_QPSK 1 5_HighCH20393-1754.3



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



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Band Edge_Band4 3MHz_QPSK 15 0_LowCH19965-1711.5



Band Edge_Band4 5MHz_QPSK 1 24_HighCH20375-1752.5



Band Edge_Band4 3MHz_QPSK 15 0_HighCH20385-1753.5



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



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Band Edge_Band4 10MHz_QPSK 1 0_LowCH20000-1715



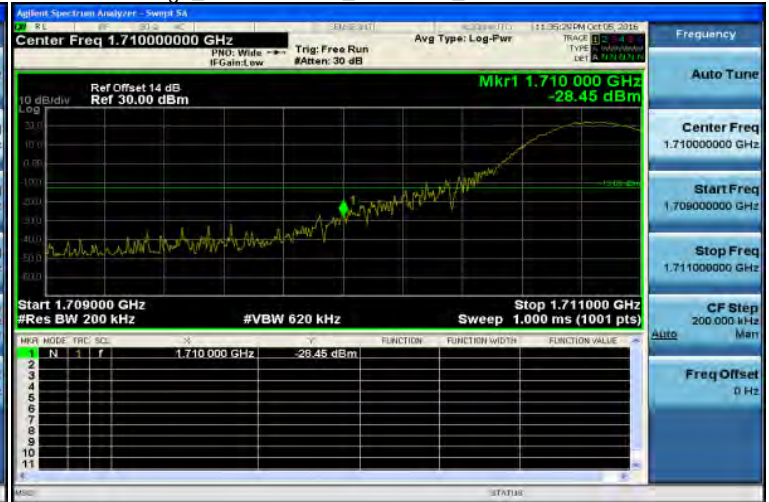
Band Edge_Band4 10MHz_QPSK 50 0_HighCH20350-1750



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



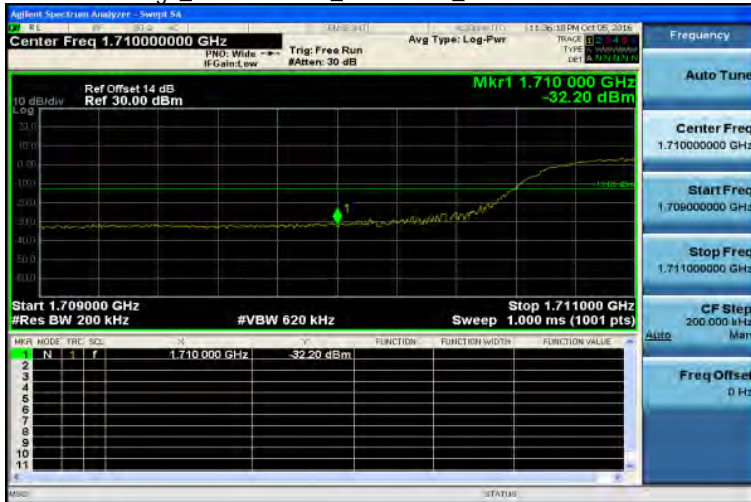
Band Edge_Band4 15MHz_QPSK 1 74_HighCH20325-1747.5



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Band Edge_Band4 15MHz_QPSK 75 0_LowCH20025-1717.5



Band Edge_Band4 20MHz_QPSK 1 99_HighCH20300-1745



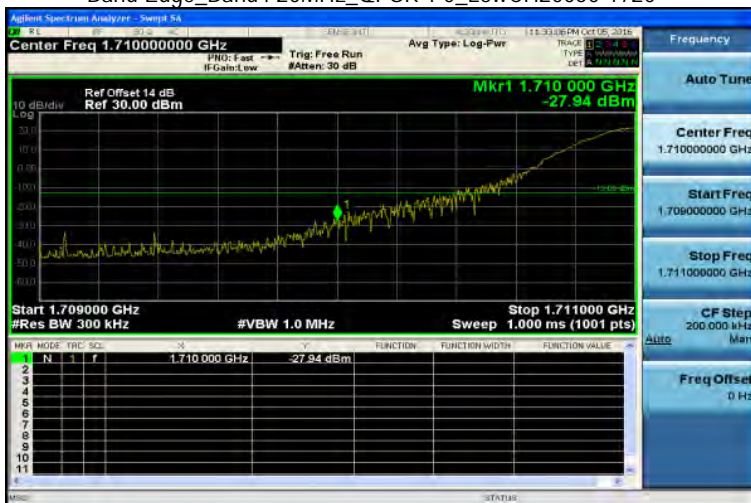
Band Edge_Band4 15MHz_QPSK 75 0_HighCH20325-1747.5



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



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Band Edge_Band5 1.4MHz_QPSK 1 0_LowCH20407-824.7



Band Edge_Band5 1.4MHz_QPSK 6 0_HighCH20643-848.3



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



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Band Edge_Band5 3MHz_QPSK 15 0_LowCH20415-825.5



Band Edge_Band5 5MHz_QPSK 1 24_HighCH20625-846.5



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



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Band Edge_Band5 10MHz_QPSK 1 0_LowCH20450-829



Band Edge_Band5 10MHz_QPSK 50 0_HighCH20600-844



Band Edge_Band5 10MHz_QPSK 1 49_HighCH20600-844



Band Edge_Band7 5MHz_QPSK 1 0_LowCH20775-2502.5



Band Edge_Band5 10MHz_QPSK 50 0_LowCH20450-829



Band Edge_Band7 5MHz_QPSK 1 24_HighCH21425-2567.5



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Band Edge_Band7 5MHz_QPSK 25 0_LowCH20775-2502.5



Band Edge_Band7 10MHz_QPSK 1 49_HighCH21400-2565



Band Edge_Band7 5MHz_QPSK 25 0_HighCH21425-2567.5



Band Edge_Band7 10MHz_QPSK 50 0_LowCH20800-2505



Band Edge_Band7 10MHz_QPSK 1 0_LowCH20800-2505



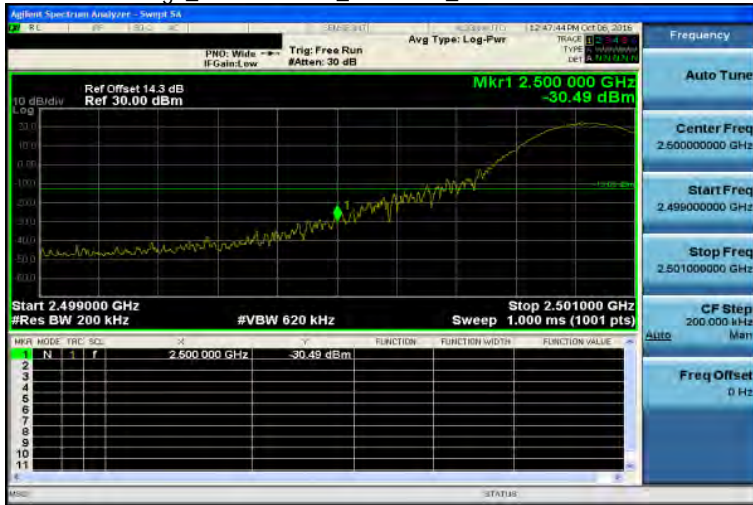
Band Edge_Band7 10MHz_QPSK 50 0_HighCH21400-2565



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Band Edge_Band7 15MHz_QPSK 1 0_LowCH20825-2507.5



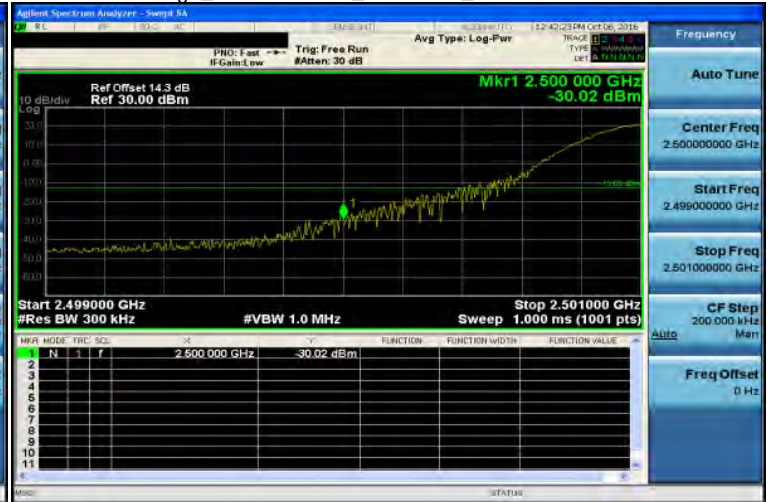
Band Edge_Band7 15MHz_QPSK 75 0_HighCH21375-2562.5



Band Edge_Band7 15MHz_QPSK 1 74_HighCH21375-2562.5



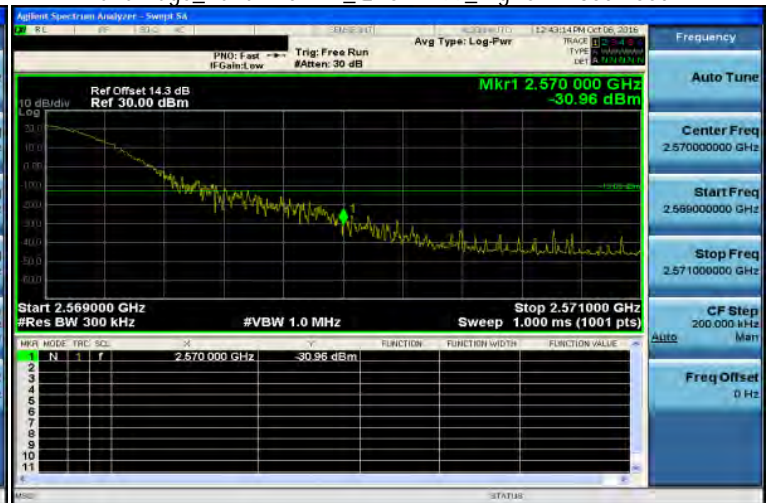
Band Edge_Band7 20MHz_QPSK 1 0_LowCH20850-2510



Band Edge_Band7 15MHz_QPSK 75 0_LowCH20825-2507.5



Band Edge_Band7 20MHz_QPSK 1 99_HighCH21350-2560



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Band Edge_Band7 20MHz_QPSK 100 0_LowCH20850-2510



Band Edge_Band12 1.4MHz_QPSK 1 5_HighCH23173-715.3



Band Edge_Band7 20MHz_QPSK 100 0_HighCH21350-2560



Band Edge_Band12 1.4MHz_QPSK 6 0_LowCH23017-699.7



Band Edge_Band12 1.4MHz_QPSK 1 0_LowCH23017-699.7



Band Edge_Band12 1.4MHz_QPSK 6 0_HighCH23173-715.3



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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



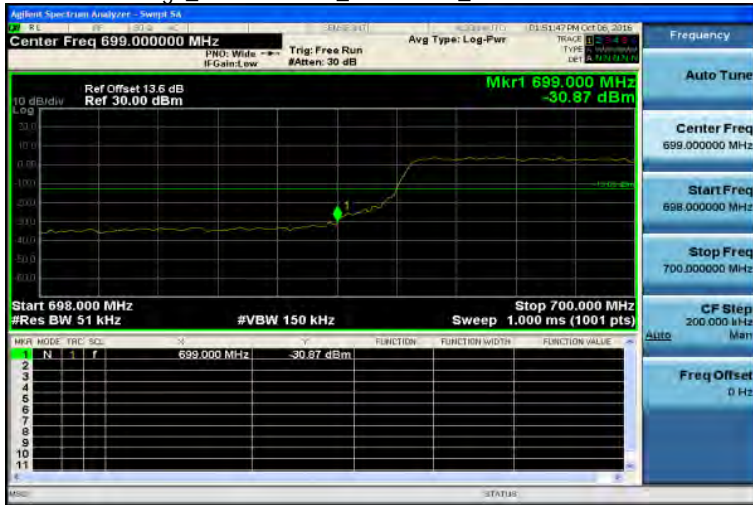
Band Edge_Band12 5MHz_QPSK 1 24_HighCH23155-713.5



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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_Band13 5MHz_QPSK 1 0_LowCH23205-779.5



Band Edge_Band13 5MHz_QPSK 25 0_HighCH23255-784.5



Band Edge_Band13 5MHz_QPSK 1 24_HighCH23255-784.5



Band Edge_Band13 10MHz_QPSK 1 0_LowCH23230-782



Band Edge_Band13 5MHz_QPSK 25 0_LowCH23205-779.5



Band Edge_Band13 10MHz_QPSK 1 49_HighCH23230-782



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Band Edge_Band13 10MHz_QPSK 50 0_LowCH23230-782



Band Edge_Band17 5MHz_QPSK 1 24_HighCH23825-713.5



Band Edge_Band13 10MHz_QPSK 50 0_HighCH23230-782



Band Edge_Band17 5MHz_QPSK 25 0_LowCH23755-706.5



Band Edge_Band17 5MHz_QPSK 1 0_LowCH23755-706.5



Band Edge_Band17 5MHz_QPSK 25 0_HighCH23825-713.5



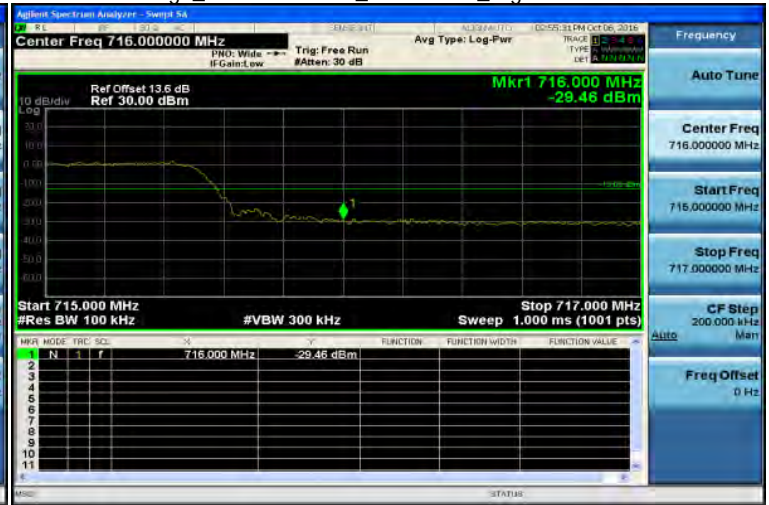
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Band Edge_Band17 10MHz_QPSK 1 0_LowCH23780-709



Band Edge_Band17 10MHz_QPSK 50 0_HighCH23800-711



Band Edge_Band17 10MHz_QPSK 1 49_HighCH23800-711



Band Edge_Band17 10MHz_QPSK 50 0_LowCH23780-709



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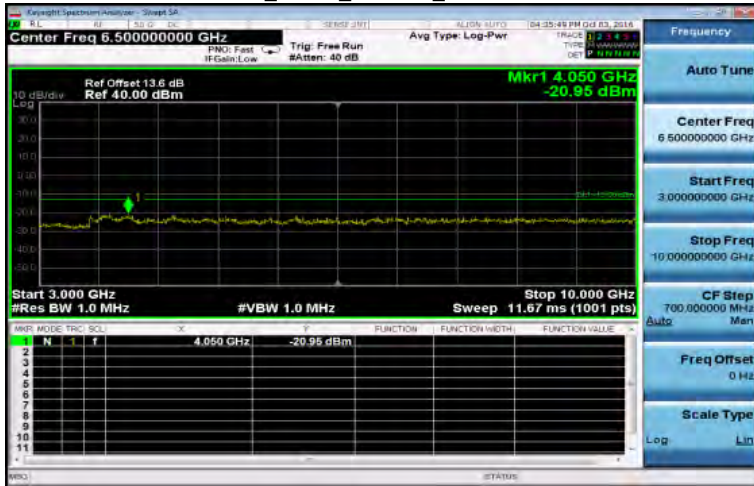
30MHz-3GHz_GPRS_850MHz_LowCH128-824.2



3GHz-10GHz_GPRS_850MHz_MidCH190-836.6



3GHz-10GHz_GPRS_850MHz_LowCH128-824.2



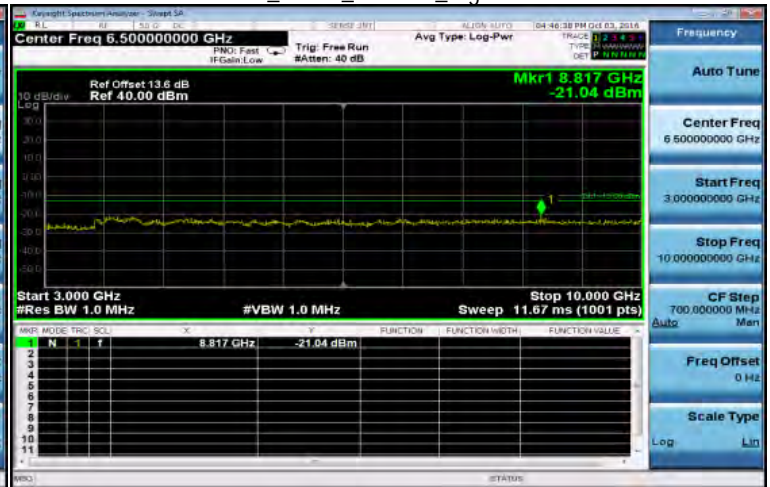
30MHz-3GHz_GPRS_850MHz_HighCH251-848.8



30MHz-3GHz_GPRS_850MHz_MidCH190-836.6



3GHz-10GHz_GPRS_850MHz_HighCH251-848.8



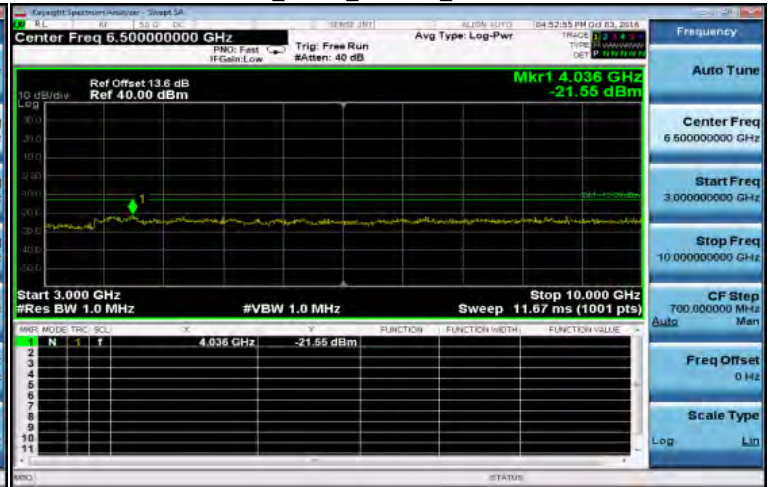
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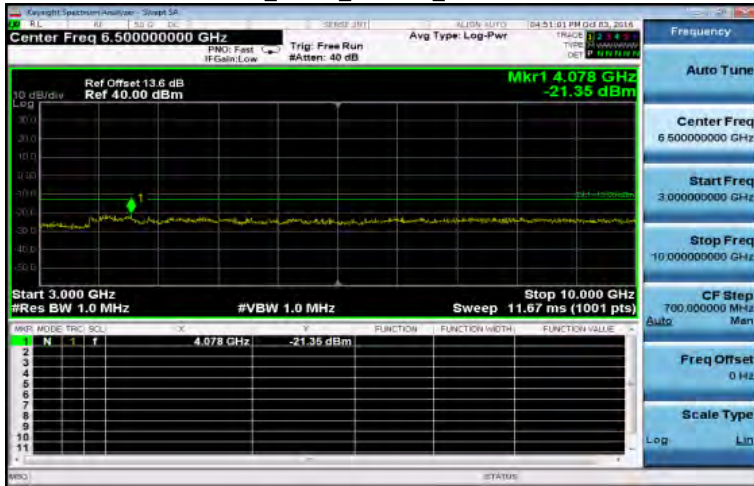
30MHz-3GHz_EDGE_850MHz_LowCH128-824.2



3GHz-10GHz_EDGE_850MHz_MidCH190-836.6



3GHz-10GHz_EDGE_850MHz_LowCH128-824.2



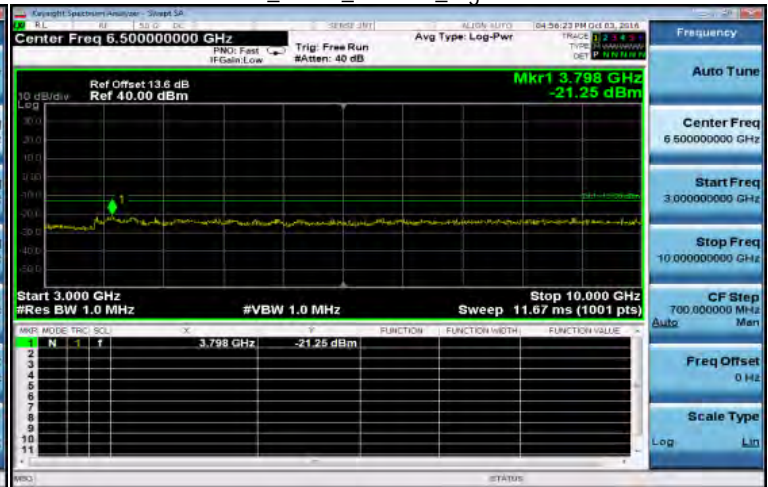
30MHz-3GHz_EDGE_850MHz_HighCH251-848.8



30MHz-3GHz_EDGE_850MHz_MidCH190-836.6



3GHz-10GHz_EDGE_850MHz_HighCH251-848.8



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30MHz-3GHz_GPRS_1900MHz_LowCH512-1850.2



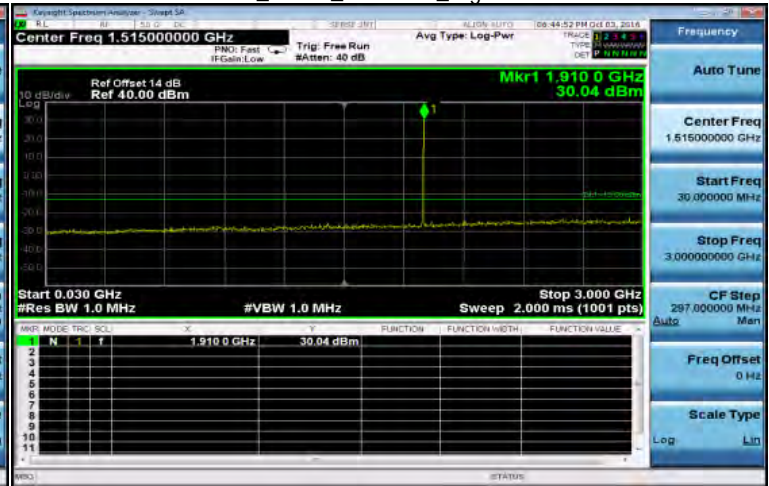
3GHz-10GHz_GPRS_1900MHz_MidCH661-1880



3GHz-10GHz_GPRS_1900MHz_LowCH512-1850.2



30MHz-3GHz_GPRS_1900MHz_HighCH810-1909.8



30MHz-3GHz_GPRS_1900MHz_MidCH661-1880



3GHz-10GHz_GPRS_1900MHz_HighCH810-1909.8



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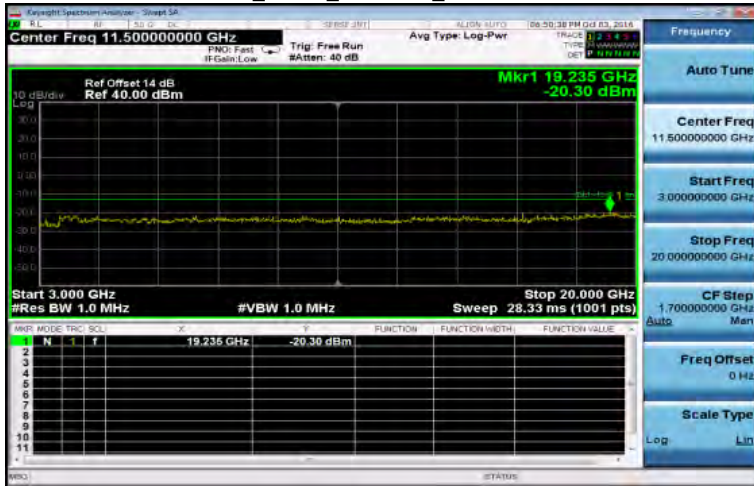
30MHz-3GHz_EDGE_1900MHz_LowCH512-1850.2



3GHz-10GHz_EDGE_1900MHz_MidCH661-1880



3GHz-10GHz_EDGE_1900MHz_LowCH512-1850.2



30MHz-3GHz_EDGE_1900MHz_HighCH810-1909.8



30MHz-3GHz_EDGE_1900MHz_MidCH661-1880



3GHz-10GHz_EDGE_1900MHz_HighCH810-1909.8



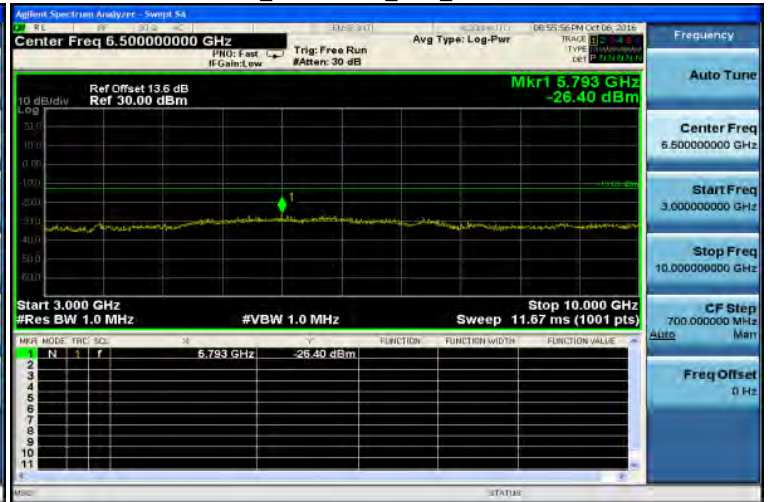
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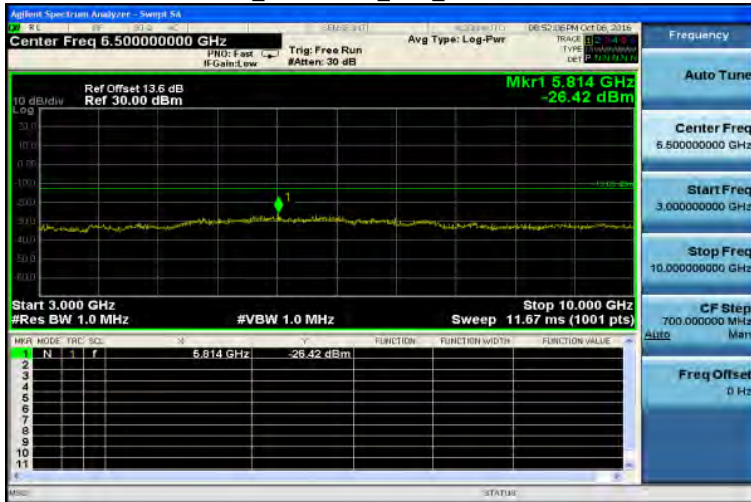
30MHz-3GHz_CDMA2000_BCO_LowCH1013-824.7



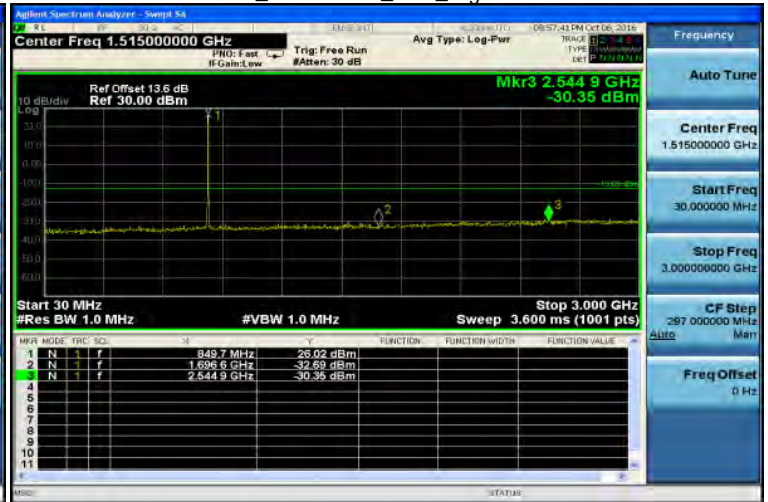
3GHz-10GHz_CDMA2000_BCO_MidCH384-836.52



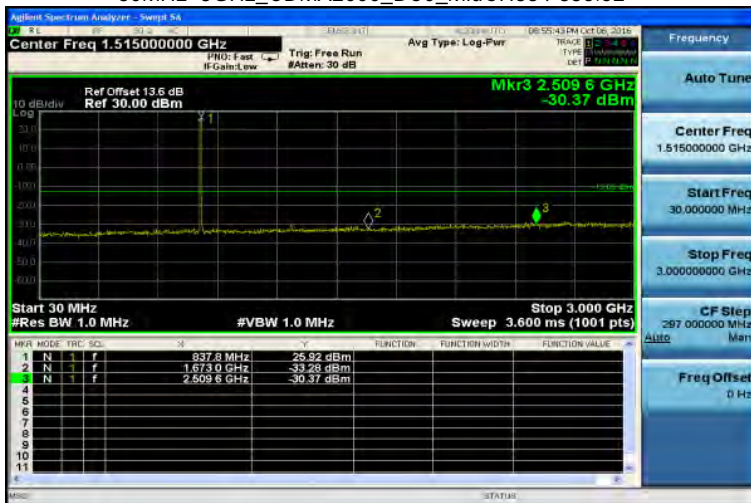
3GHz-10GHz_CDMA2000_BCO_LowCH1013-824.7



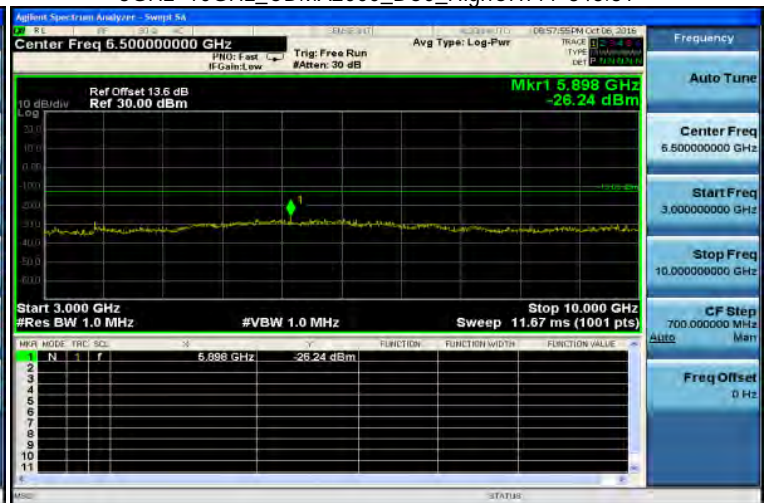
30MHz-3GHz_CDMA2000_BCO_HighCH777-848.31



30MHz-3GHz_CDMA2000_BCO_MidCH384-836.52



3GHz-10GHz_CDMA2000_BCO_HighCH777-848.31



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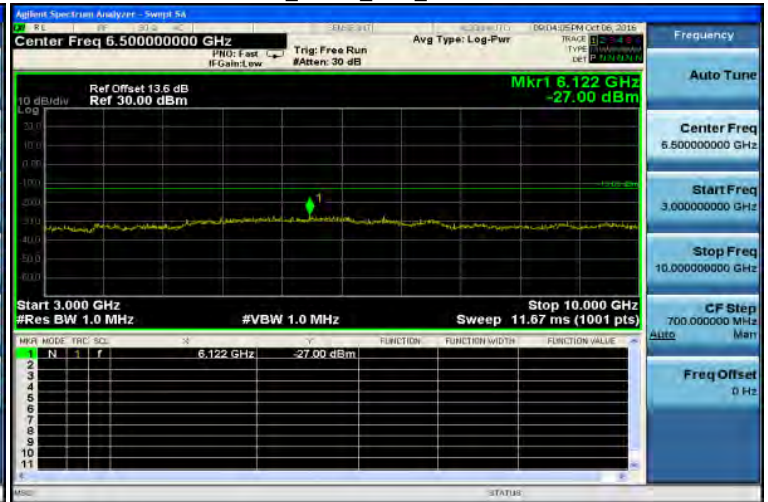
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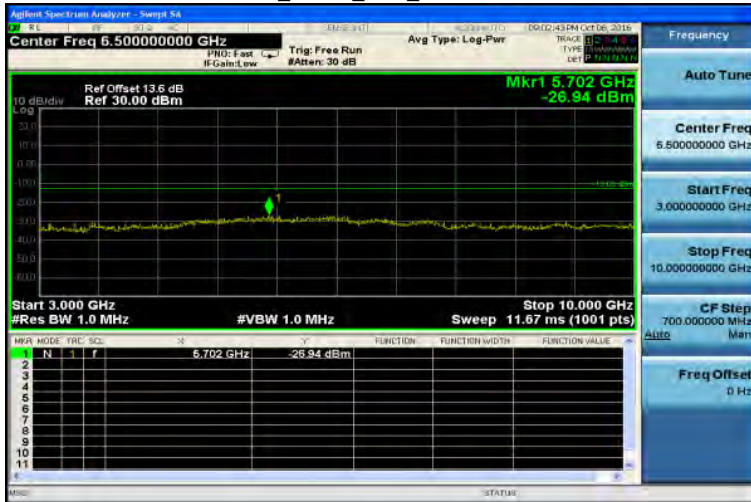
30MHz-3GHz_EVDO_BC0_LowCH1013-824.7



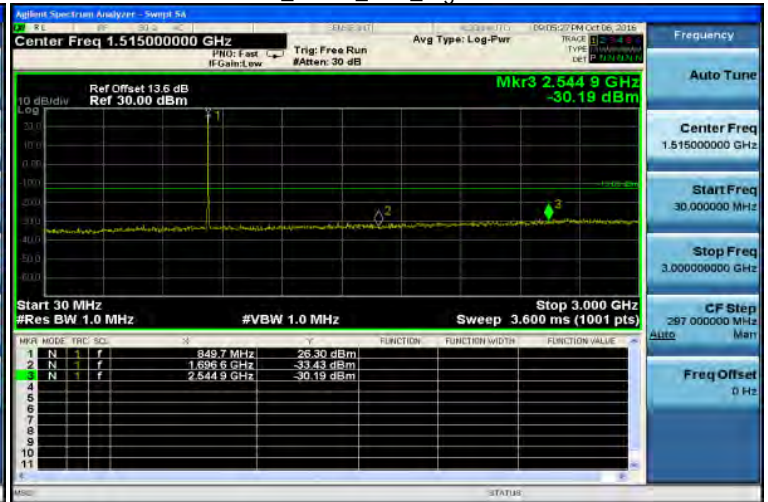
3GHz-10GHz_EVDO_BC0_MidCH384-836.52



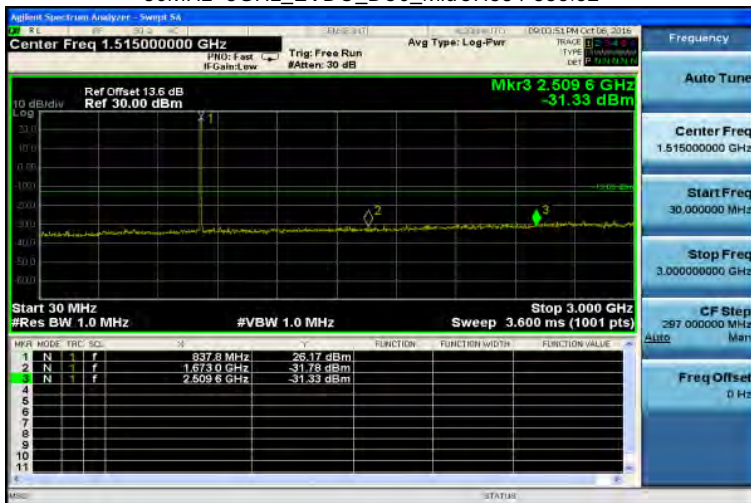
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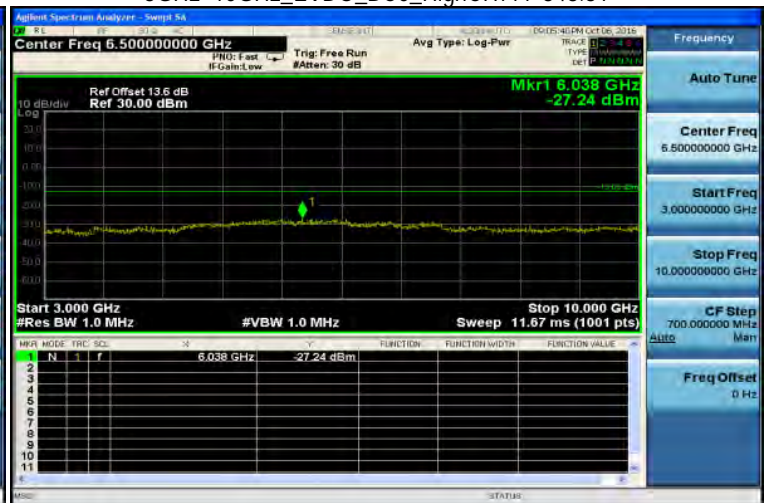
30MHz-3GHz_EVDO_BC0_HighCH777-848.31



30MHz-3GHz_EVDO_BC0_MidCH384-836.52



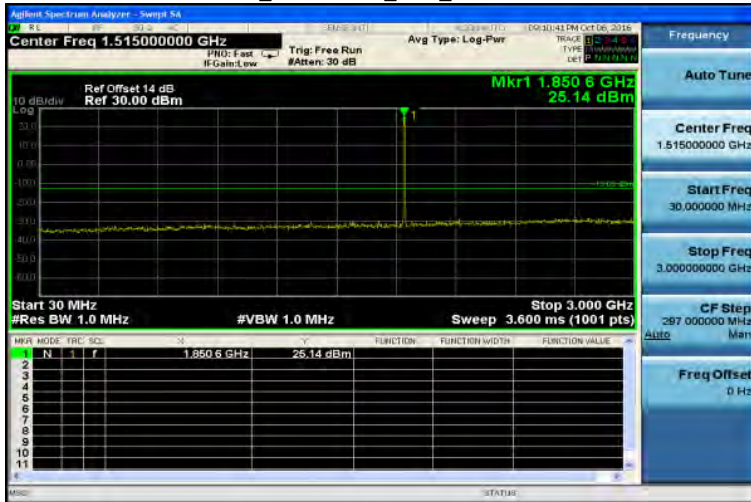
3GHz-10GHz_EVDO_BC0_HighCH777-848.31



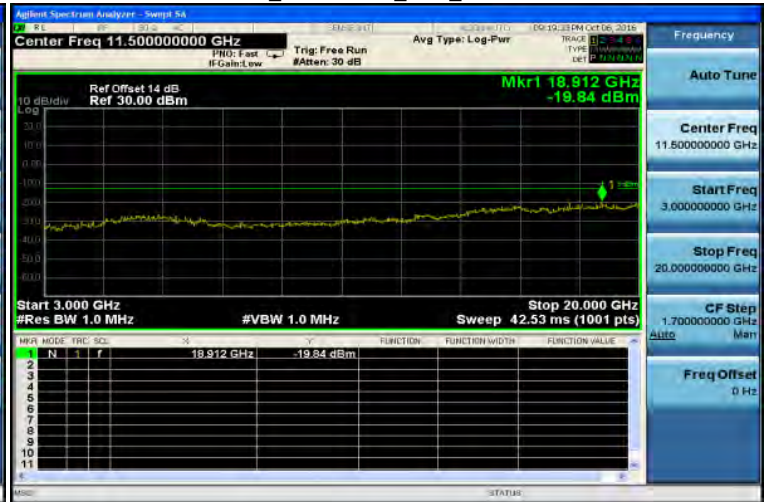
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30MHz~3GHz_CDMA2000_BC1_LowCH25-1851.3



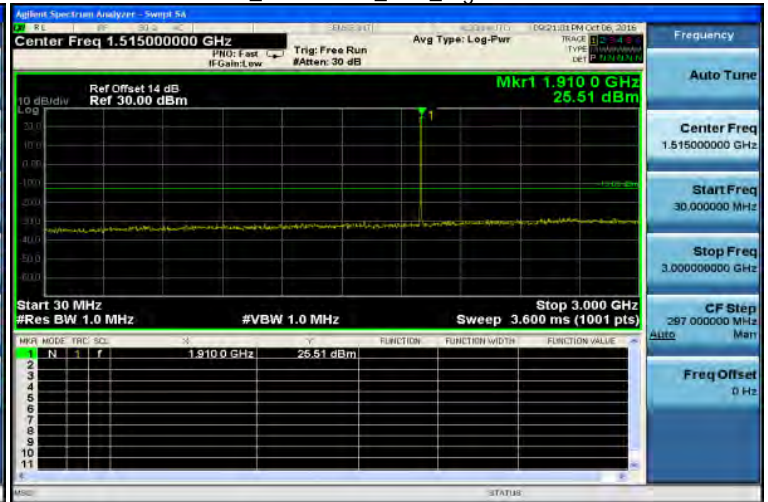
3GHz~10GHz_CDMA2000_BC1_MidCH600-1880



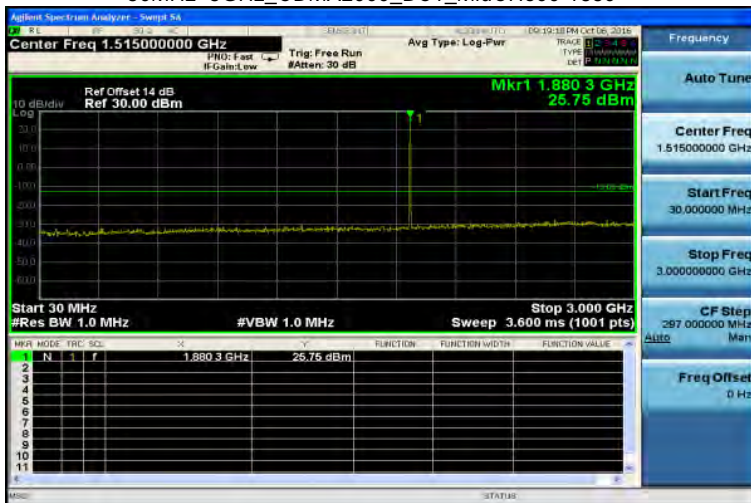
3GHz~10GHz_CDMA2000_BC1_LowCH25-1851.3



30MHz~3GHz_CDMA2000_BC1_HighCH1175-1908.8



30MHz~3GHz_CDMA2000_BC1_MidCH600-1880



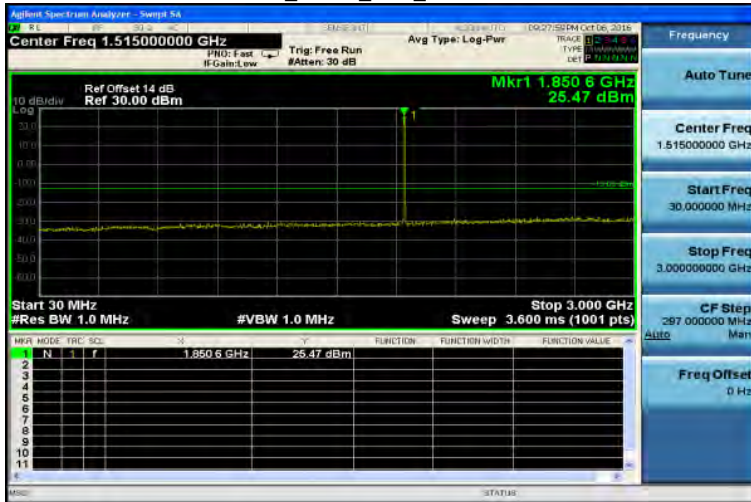
3GHz~10GHz_CDMA2000_BC1_HighCH1175-1908.8



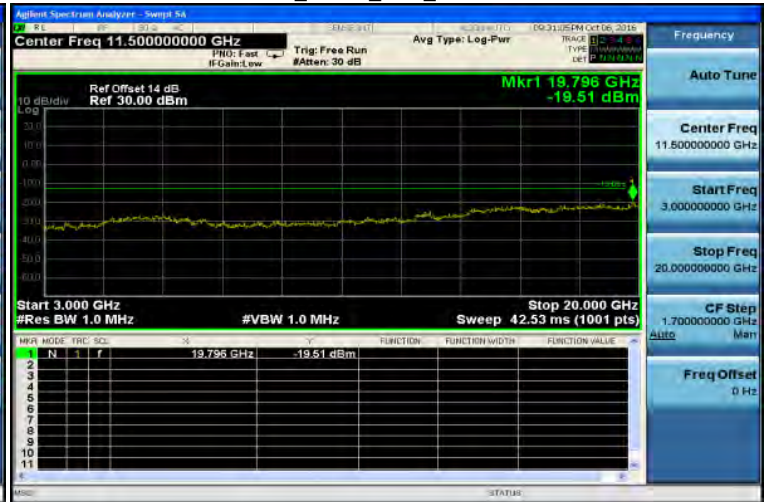
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30MHz-3GHz_EVDO_BC1_LowCH25-1851.3



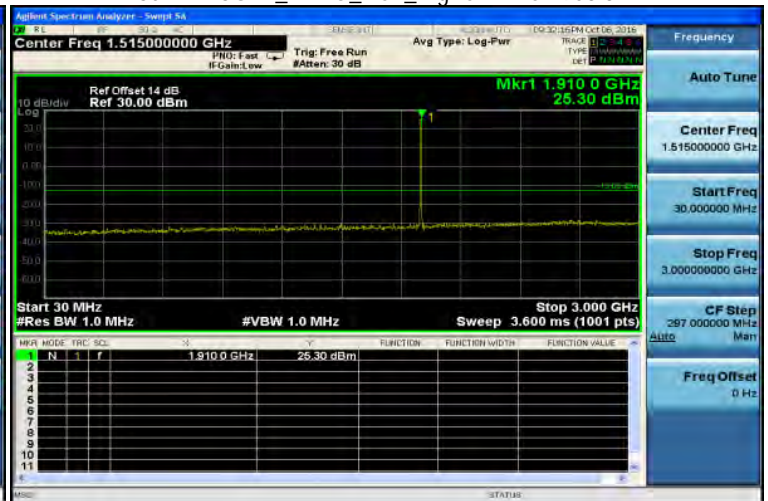
3GHz-10GHz_EVDO_BC1_MidCH600-1880



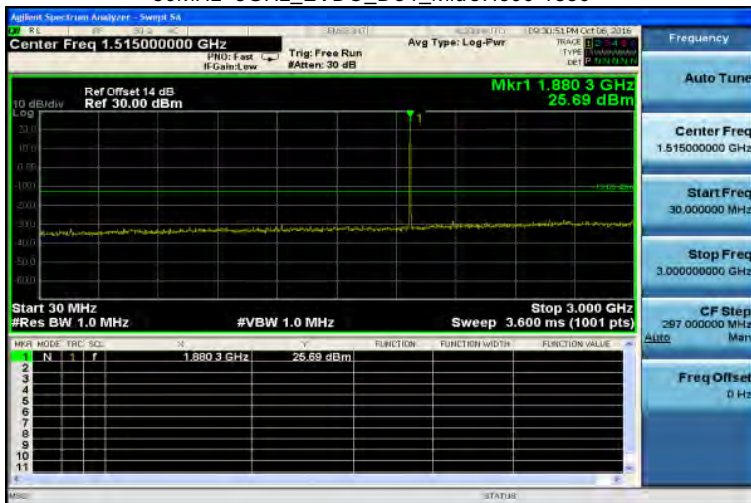
3GHz-10GHz_EVDO_BC1_LowCH25-1851.3



30MHz-3GHz_EVDO_BC1_HighCH1175-1908.8



30MHz-3GHz_EVDO_BC1_MidCH600-1880



3GHz-10GHz_EVDO_BC1_HighCH1175-1908.8



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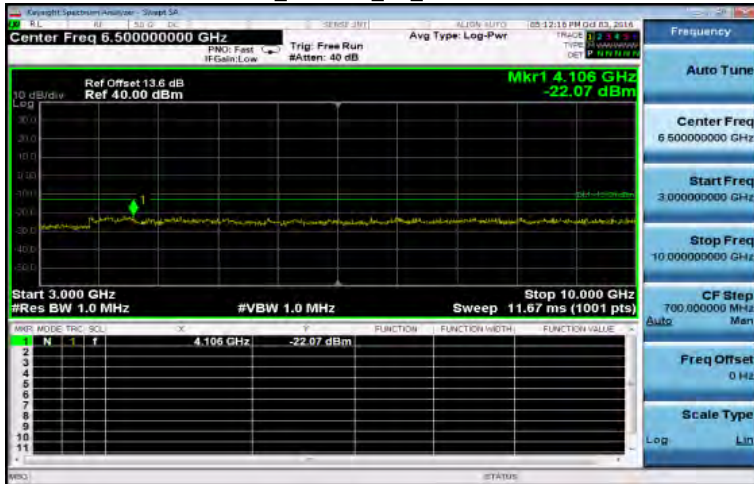
30MHz~3GHz_WCDMA_B5_LowCH4132-826.4



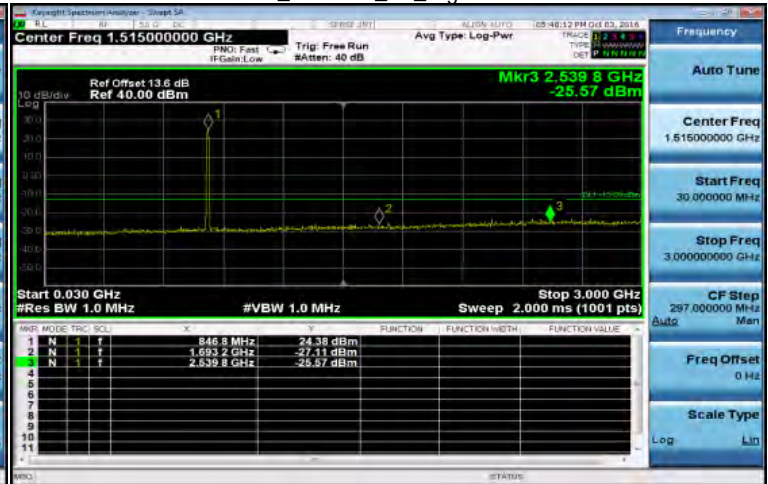
3GHz~10GHz_WCDMA_B5_MidCH4183-836.6



3GHz~10GHz_WCDMA_B5_LowCH4132-826.4



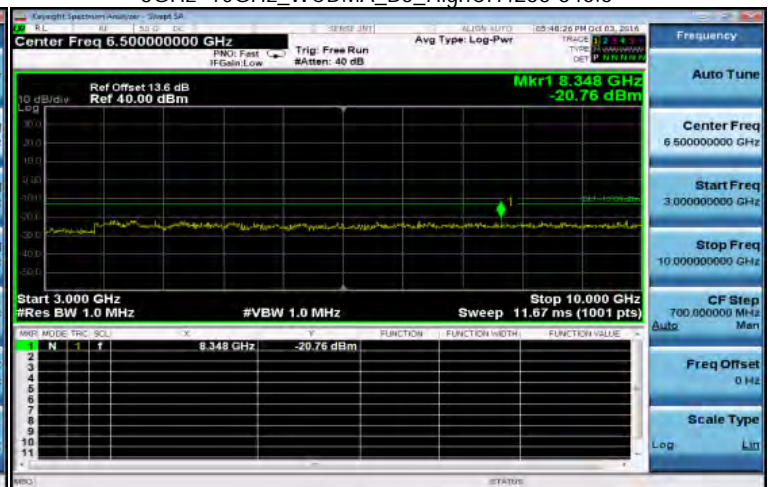
30MHz~3GHz_WCDMA_B5_HighCH4233-846.6



30MHz~3GHz_WCDMA_B5_MidCH4183-836.6



3GHz~10GHz_WCDMA_B5_HighCH4233-846.6



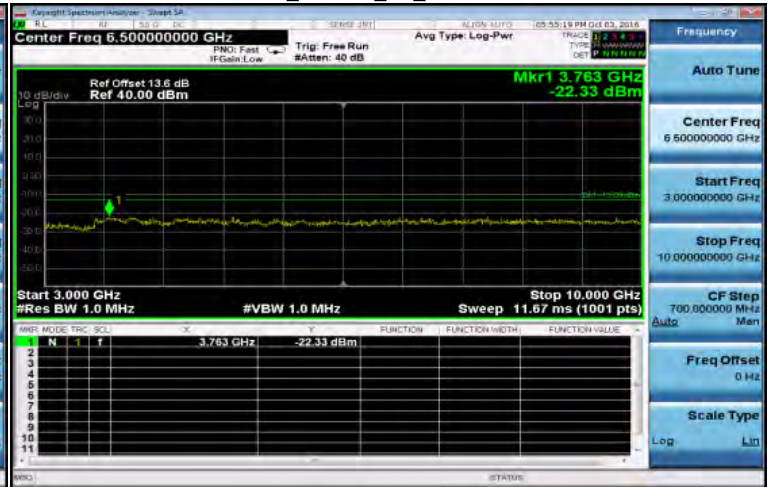
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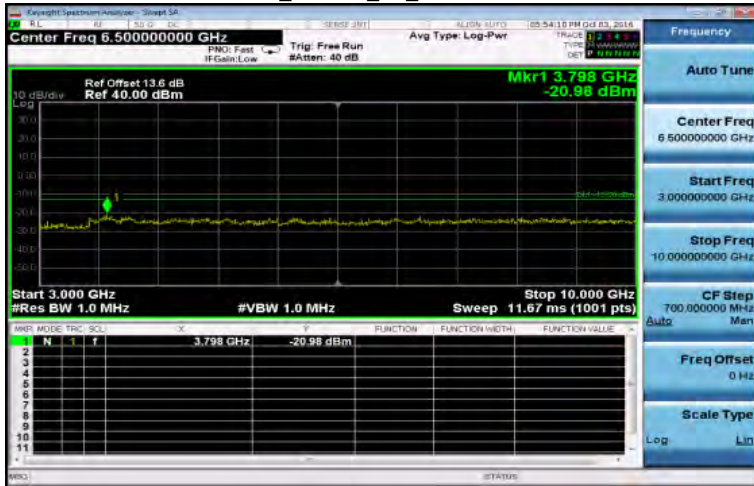
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3GHz-10GHz_HSDPA_B5_MidCH4183-836.6



3GHz-10GHz_HSDPA_B5_LowCH4132-826.4



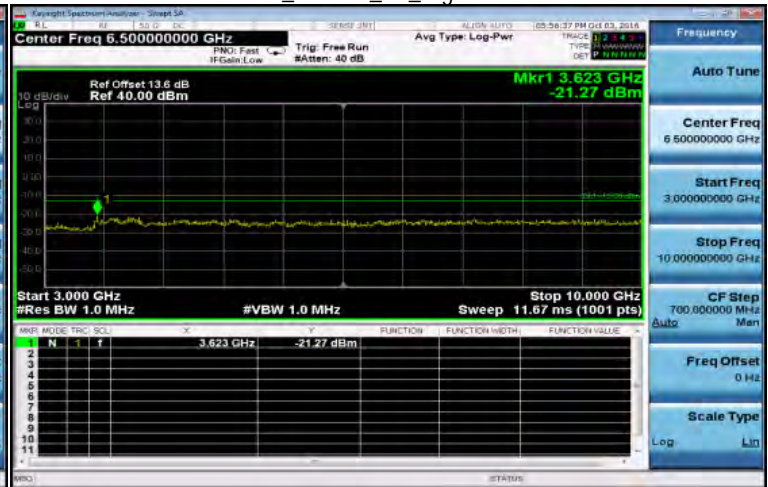
30MHz-3GHz_HSDPA_B5_HighCH4233-846.6



30MHz-3GHz_HSDPA_B5_MidCH4183-836.6



3GHz-10GHz_HSDPA_B5_HighCH4233-846.6



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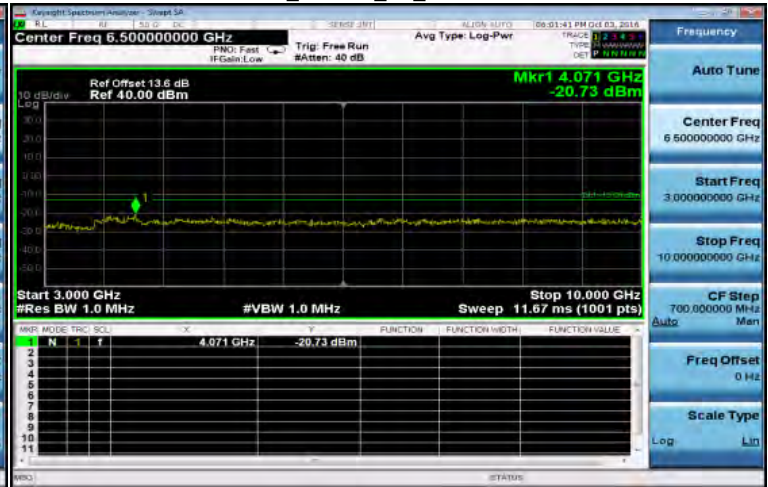
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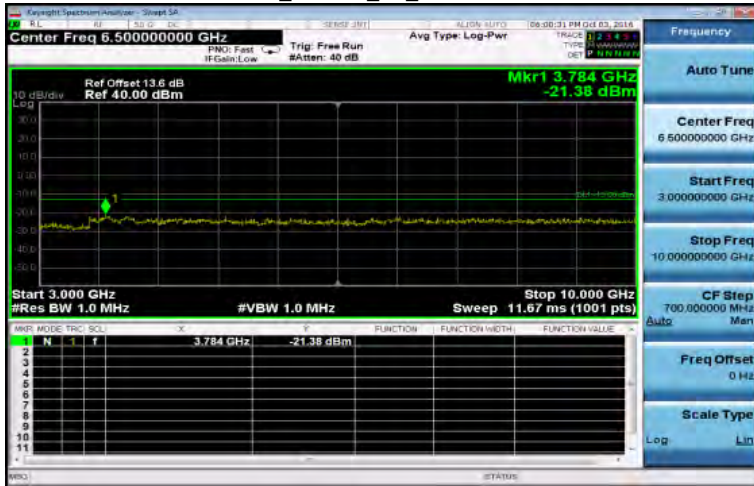
30MHz-3GHz_HSUPA_B5_LowCH4132-826.4



3GHz-10GHz_HSUPA_B5_MidCH4183-836.6



3GHz-10GHz_HSUPA_B5_LowCH4132-826.4



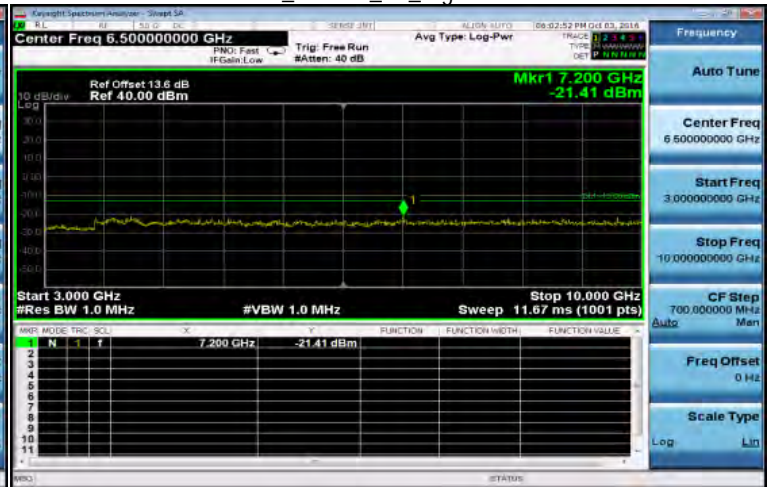
30MHz-3GHz_HSUPA_B5_HighCH4233-846.6



30MHz-3GHz_HSUPA_B5_MidCH4183-836.6



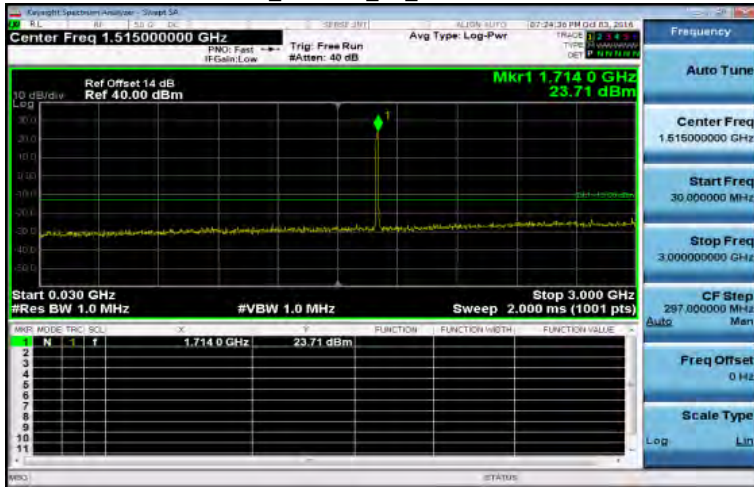
3GHz-10GHz_HSUPA_B5_HighCH4233-846.6



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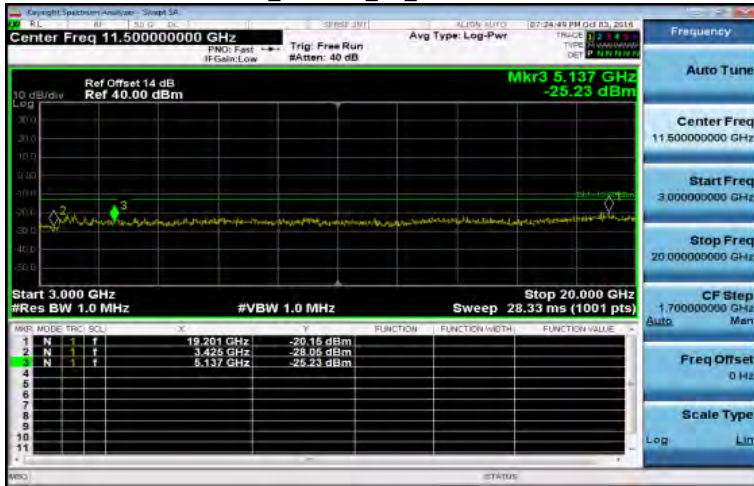
30MHz-3GHz_WCDMA_B4_LowCH1312-1712.4



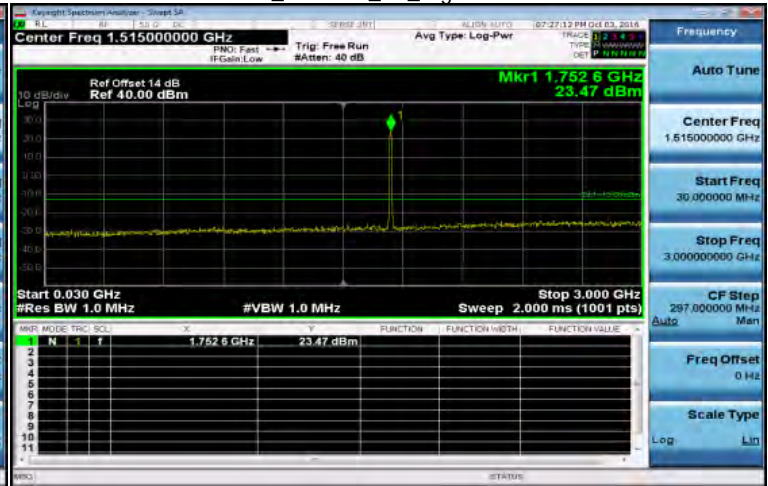
3GHz-10GHz_WCDMA_B4_MidCH1413-1732.6



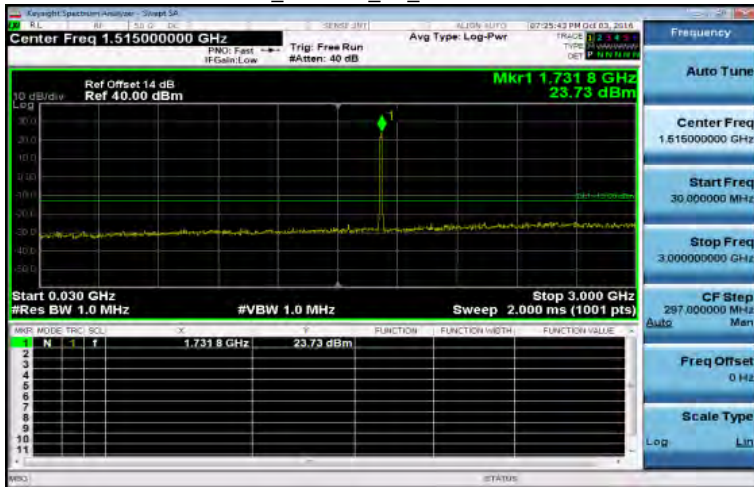
3GHz-10GHz_WCDMA_B4_LowCH1312-1712.4



30MHz-3GHz_WCDMA_B4_HighCH1513-1752.6



30MHz-3GHz_WCDMA_B4_MidCH1413-1732.6



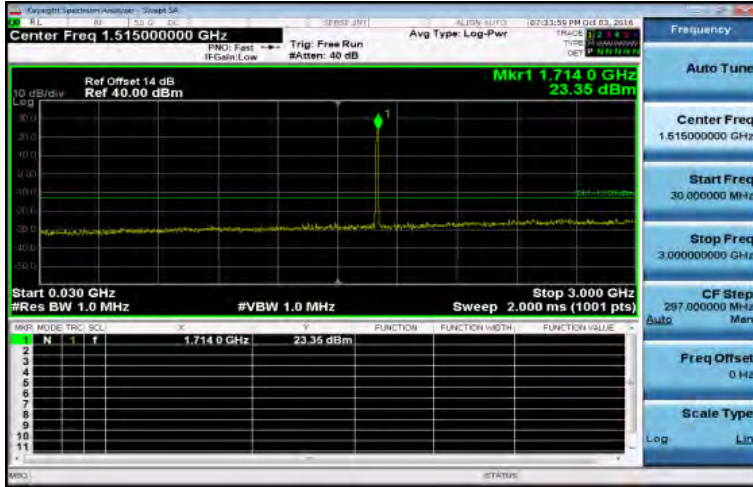
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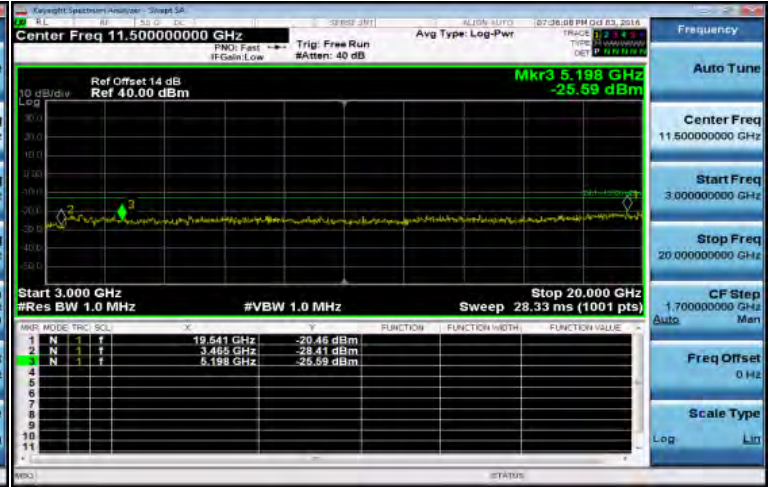
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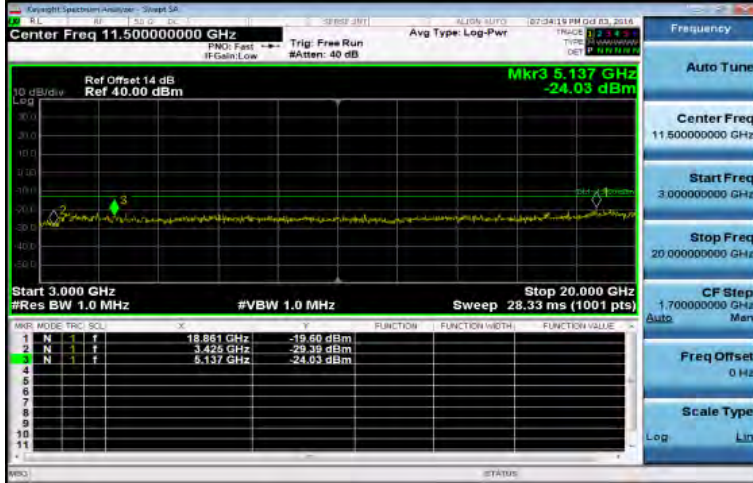
30MHz~3GHz_HSDPA_B4_LowCH1312-1712.4



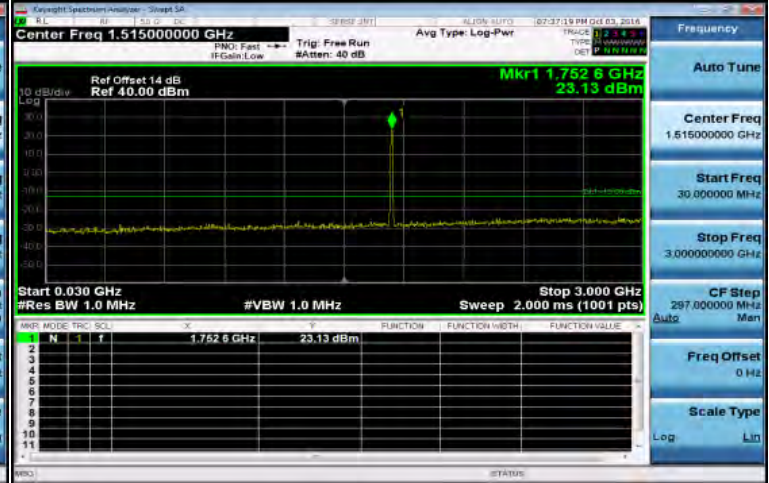
3GHz~10GHz_HSDPA_B4_MidCH1413-1732.6



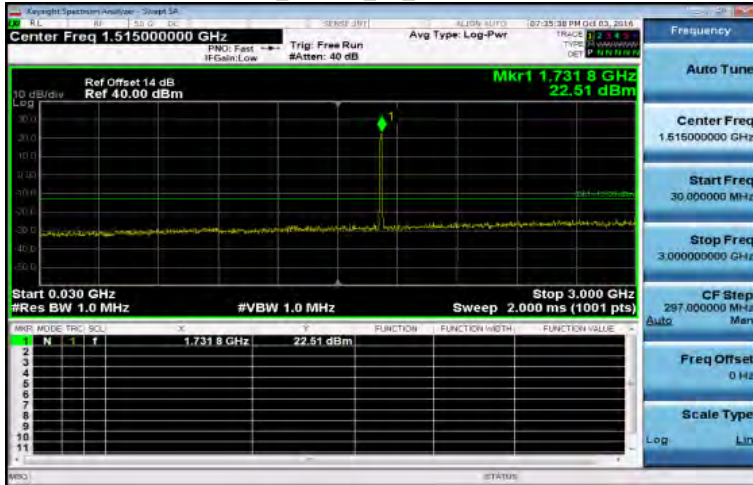
3GHz~10GHz_HSDPA_B4_LowCH1312-1712.4



30MHz~3GHz_HSDPA_B4_HighCH1513-1752.6



30MHz~3GHz_HSDPA_B4_MidCH1413-1732.6



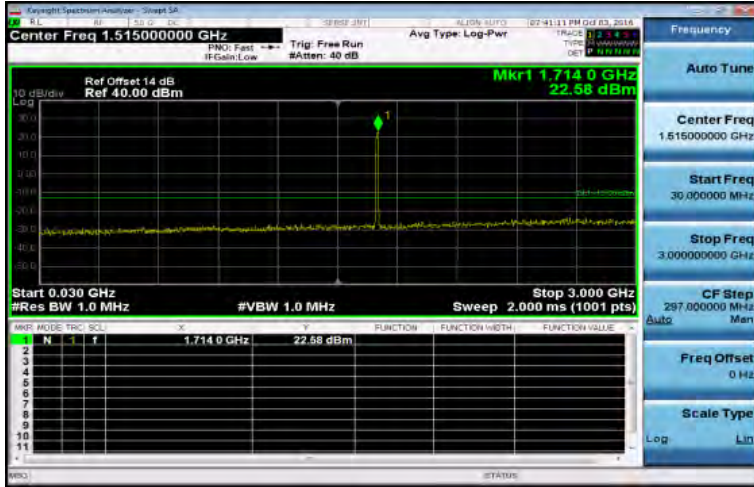
3GHz~10GHz_HSDPA_B4_HighCH1513-1752.6



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30MHz~3GHz_HSUPA_B4_LowCH1312-1712.4



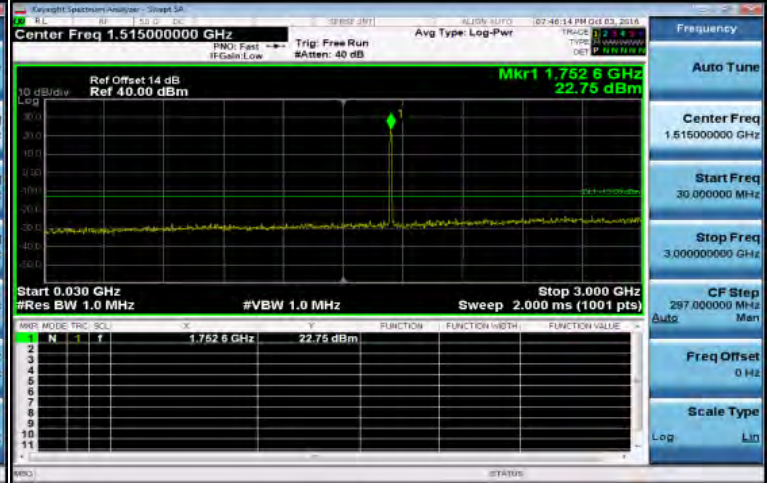
3GHz~10GHz_HSUPA_B4_MidCH1413-1732.6



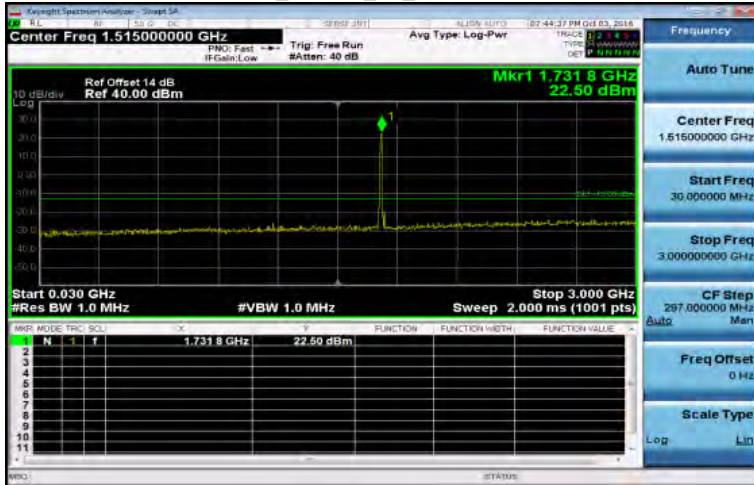
3GHz~10GHz_HSUPA_B4_LowCH1312-1712.4



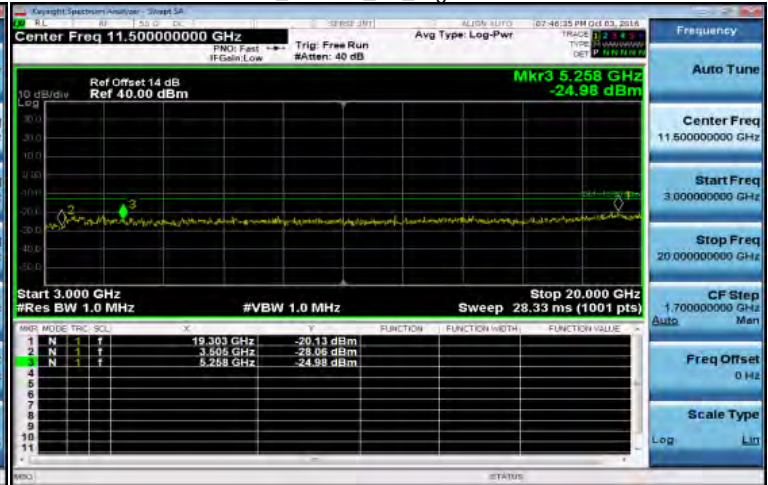
30MHz~3GHz_HSUPA_B4_HighCH1513-1752.6



30MHz~3GHz_HSUPA_B4_MidCH1413-1732.6



3GHz~10GHz_HSUPA_B4_HighCH1513-1752.6



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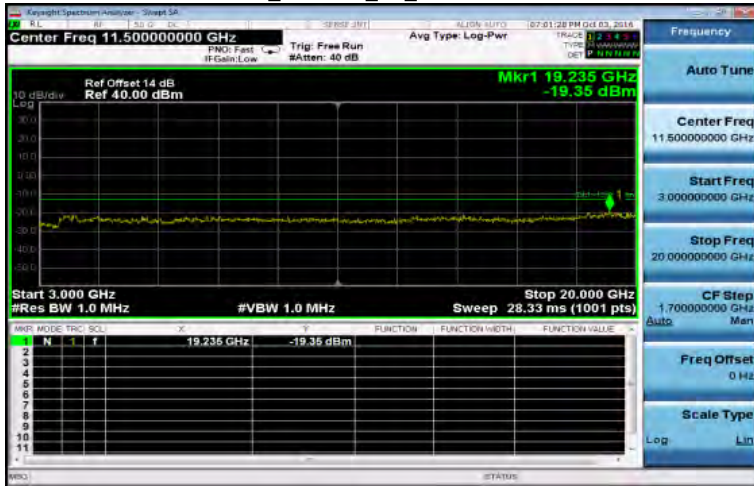
30MHz-3GHz_WCDMA_B2_LowCH9262-1852.4



3GHz-10GHz_WCDMA_B2_MidCH9400-1880



3GHz-10GHz_WCDMA_B2_LowCH9262-1852.4



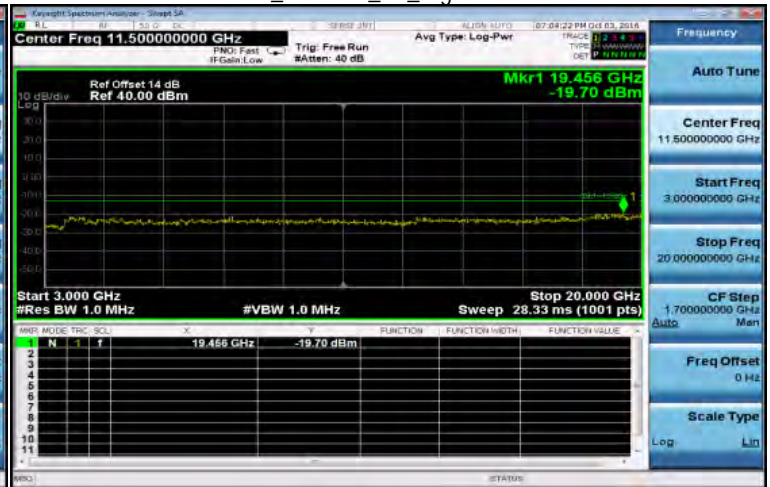
30MHz-3GHz_WCDMA_B2_HighCH9538-1907.6



30MHz-3GHz_WCDMA_B2_MidCH9400-1880



3GHz-10GHz_WCDMA_B2_HighCH9538-1907.6



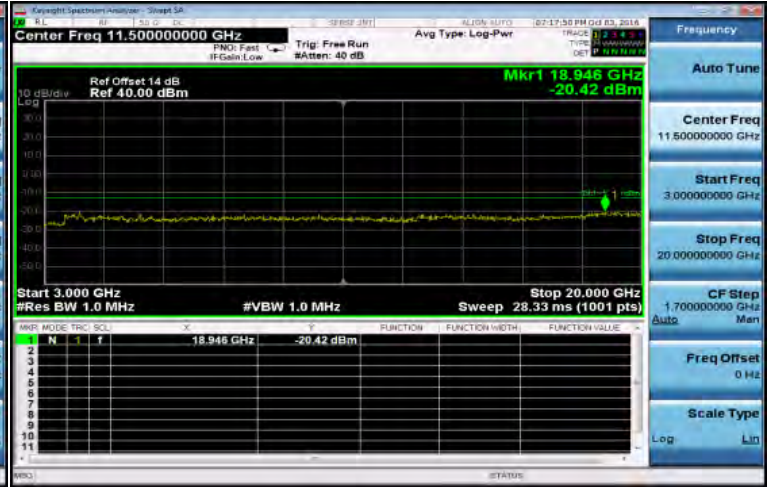
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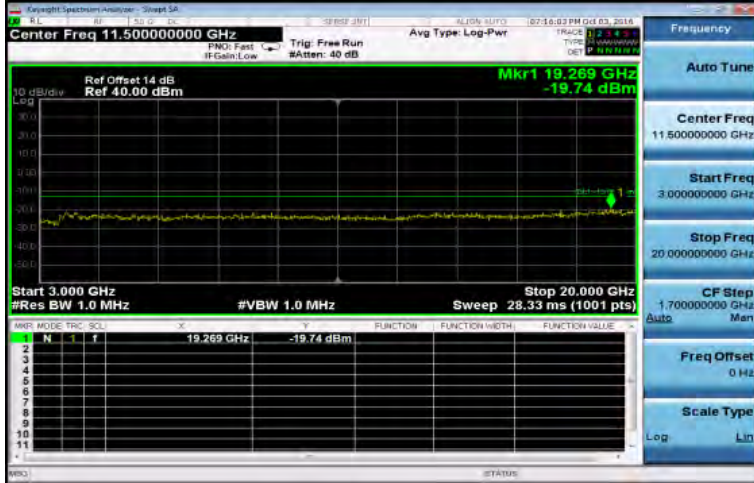
30MHz~3GHz_HSDPA_B2_LowCH9262-1852.4



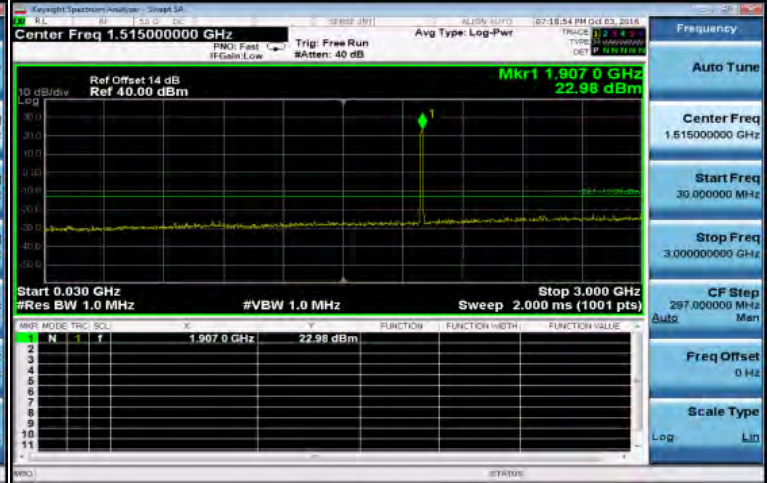
3GHz~10GHz_HSDPA_B2_MidCH9400-1880



3GHz~10GHz_HSDPA_B2_LowCH9262-1852.4



30MHz~3GHz_HSDPA_B2_HighCH9538-1907.6



30MHz~3GHz_HSDPA_B2_MidCH9400-1880



3GHz~10GHz_HSDPA_B2_HighCH9538-1907.6



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