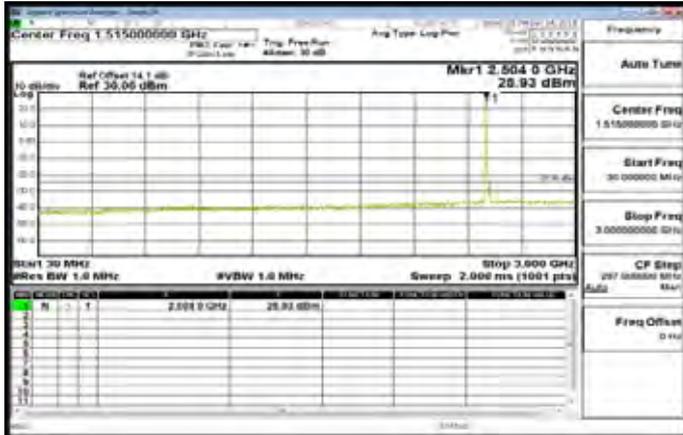
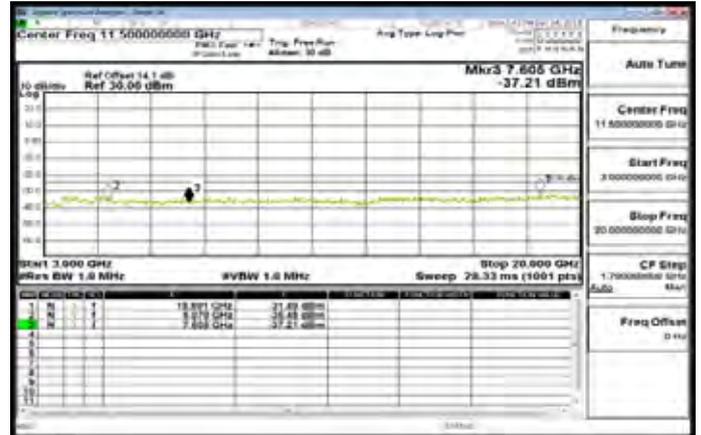


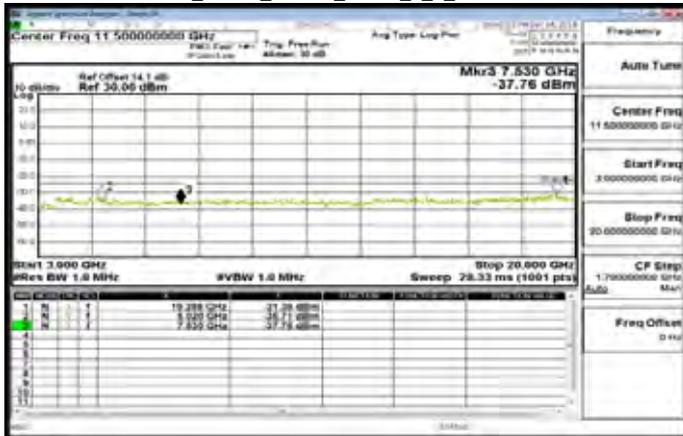
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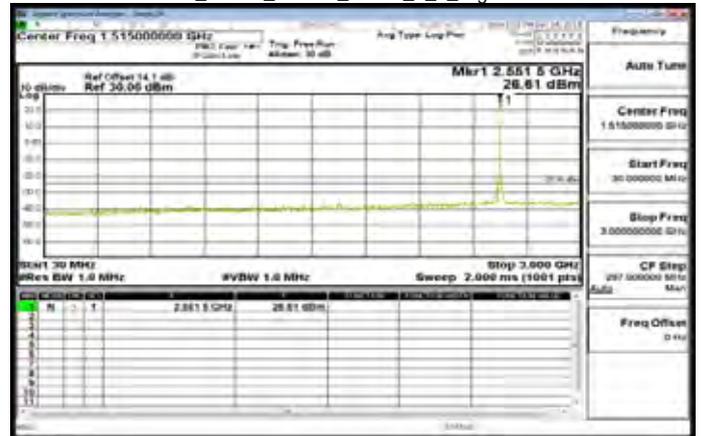
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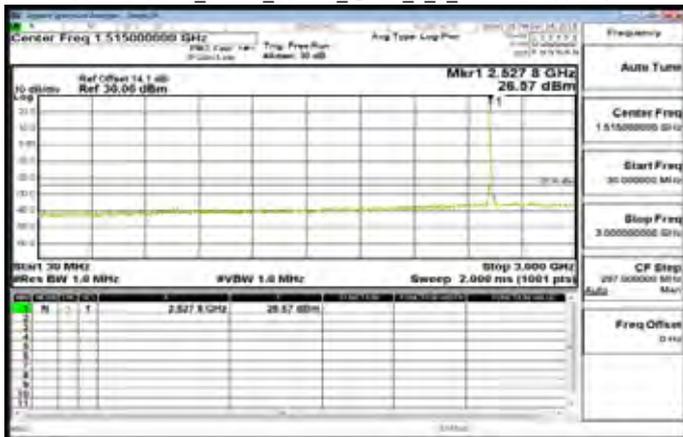
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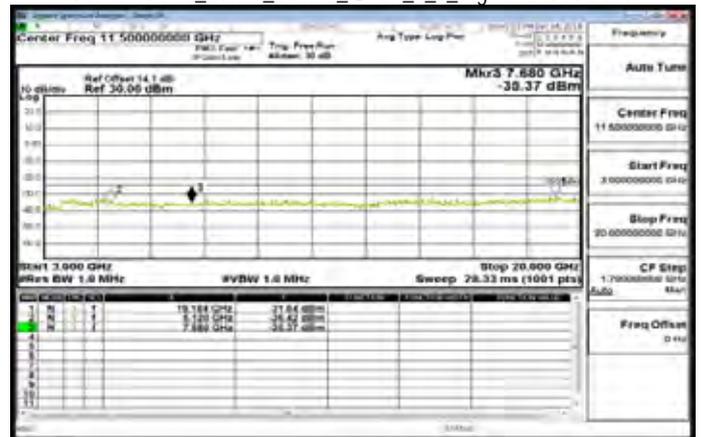
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3GHz-10GHz\_Band7\_20MHz\_QPSK\_1\_0\_HighCH21350-2560



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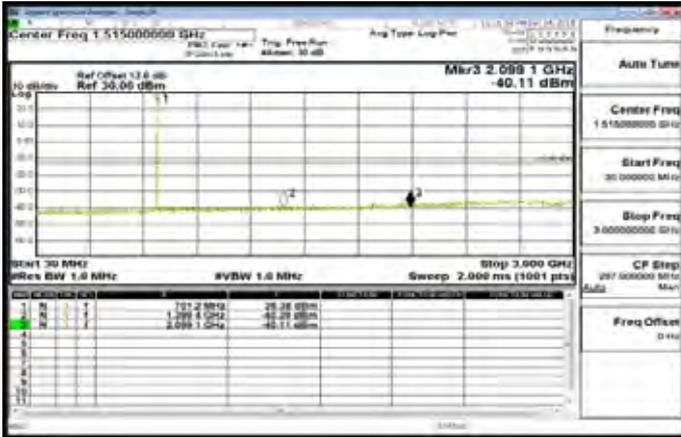
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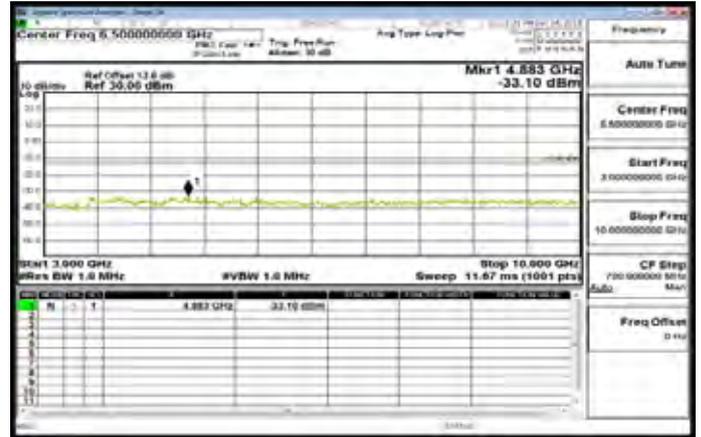
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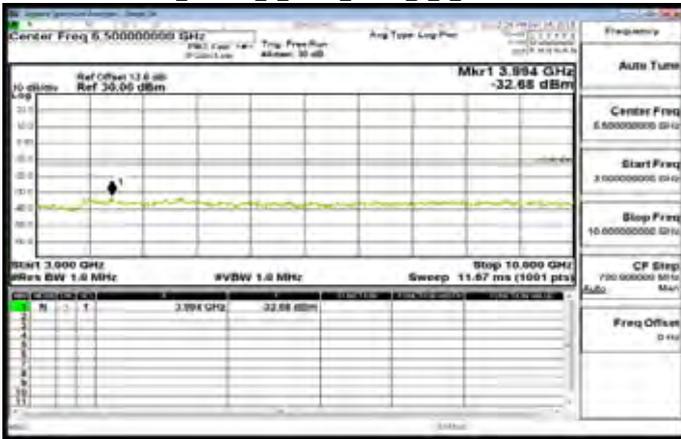
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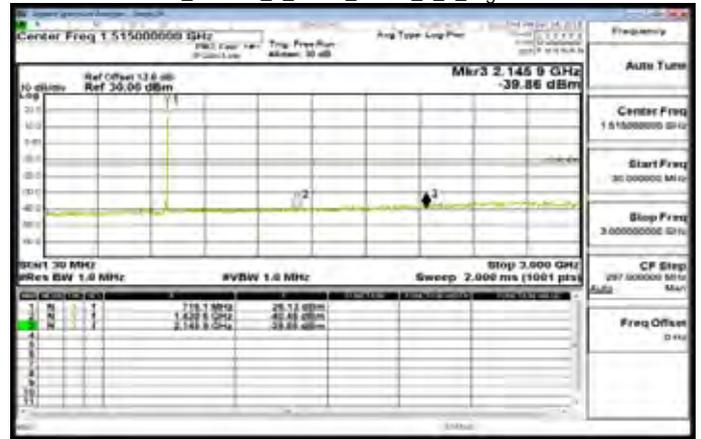
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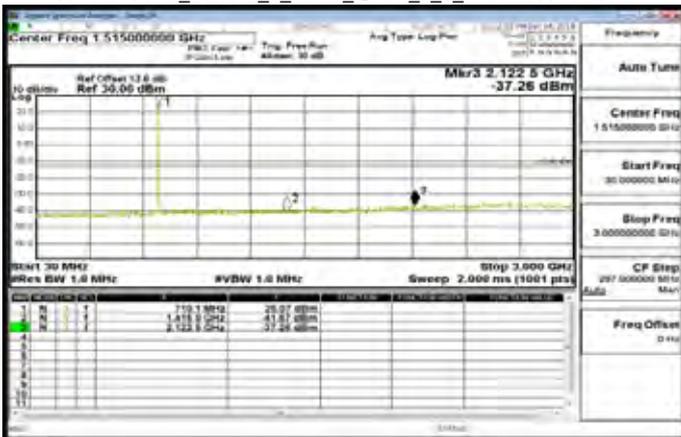
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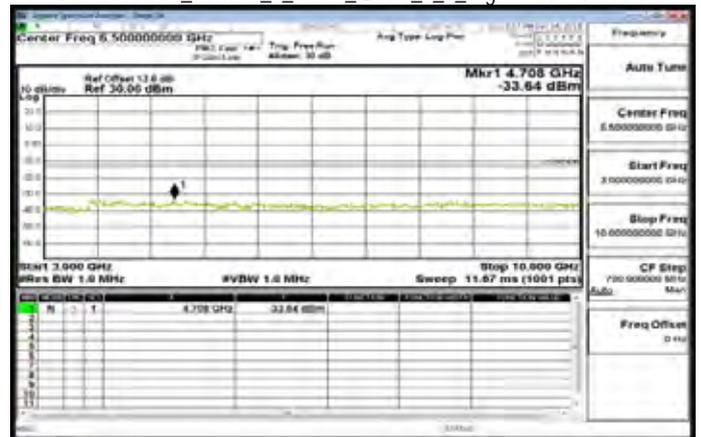
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3GHz-10GHz\_Band12\_1\_4MHz\_QPSK\_1\_0\_HighCH23173-715.3



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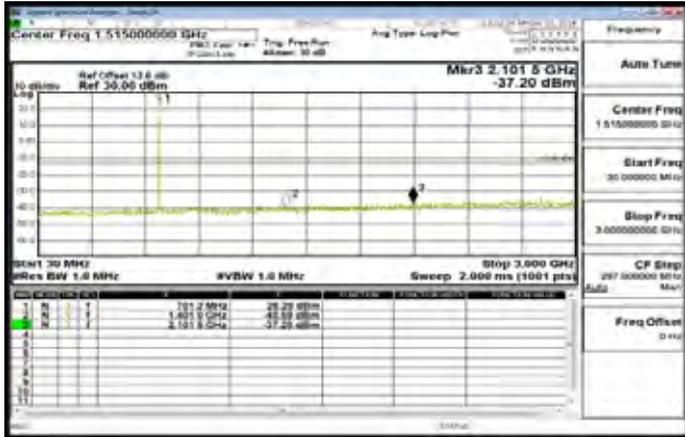
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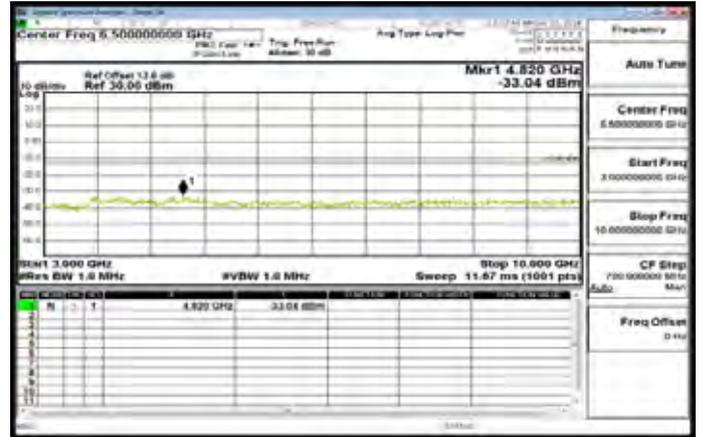
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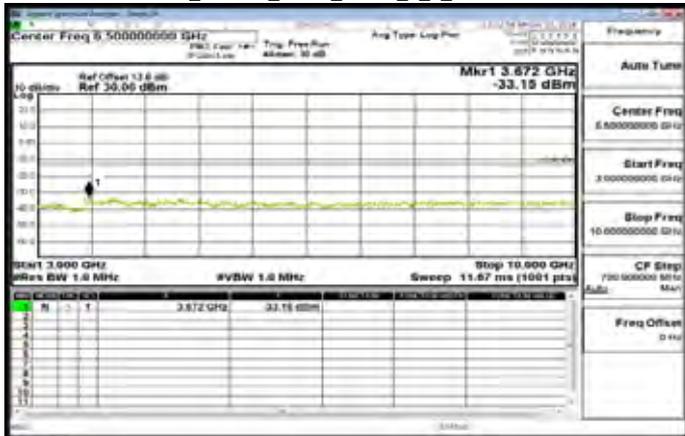
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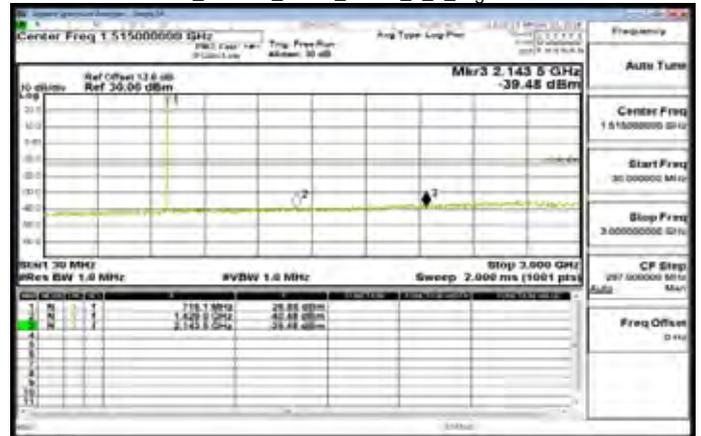
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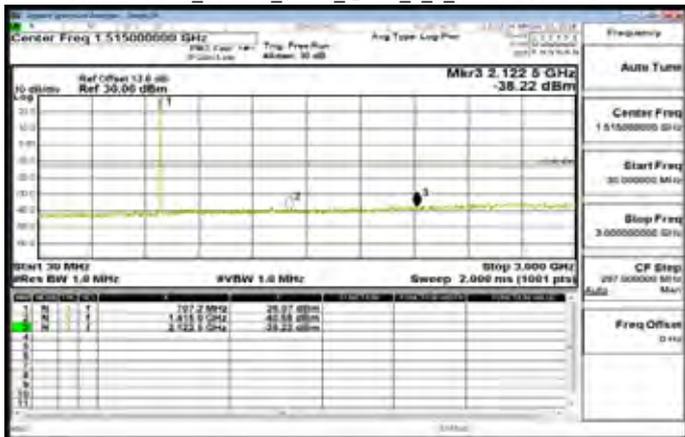
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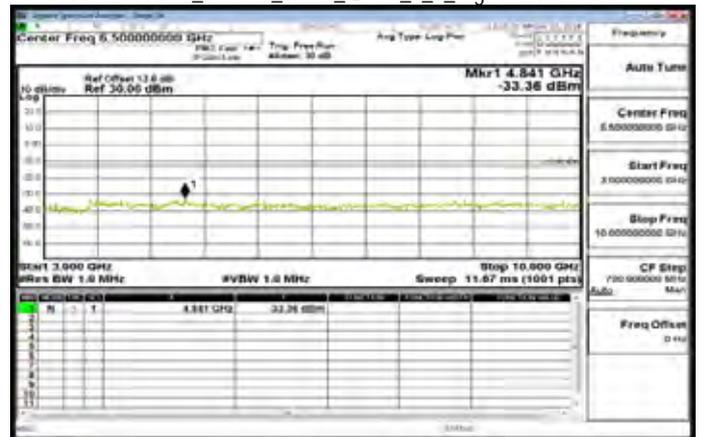
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30MHz-3GHz\_Band12\_3MHz\_QPSK\_1\_0\_MidCH23095-707.5



3GHz-10GHz\_Band12\_3MHz\_QPSK\_1\_0\_HighCH23165-714.5



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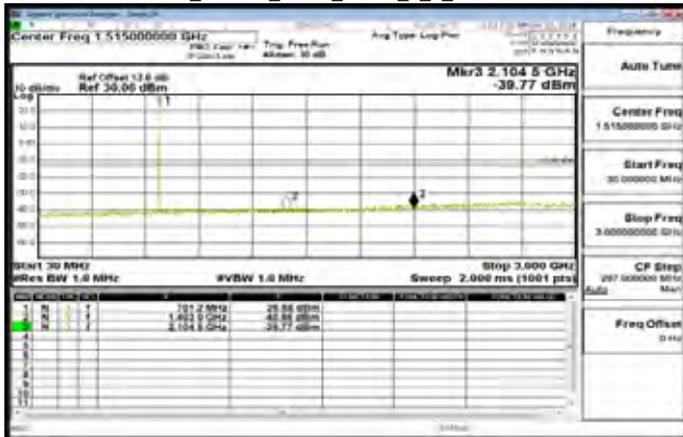
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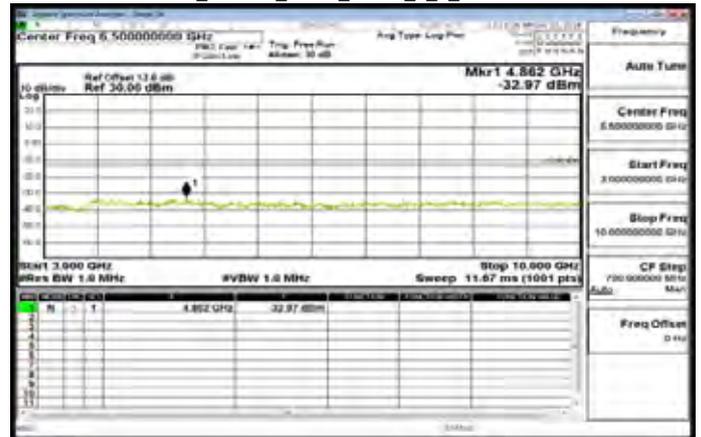
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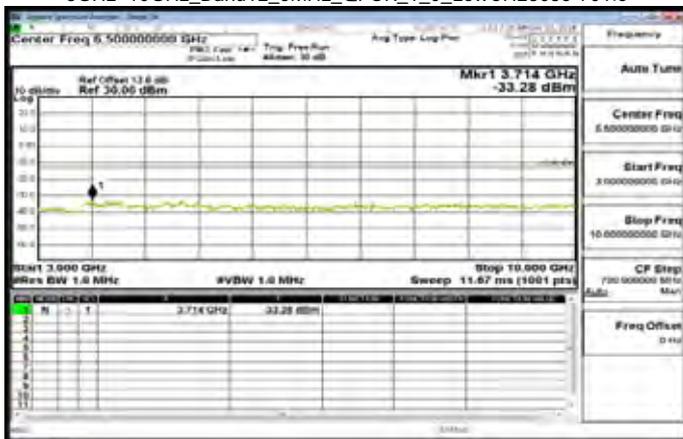
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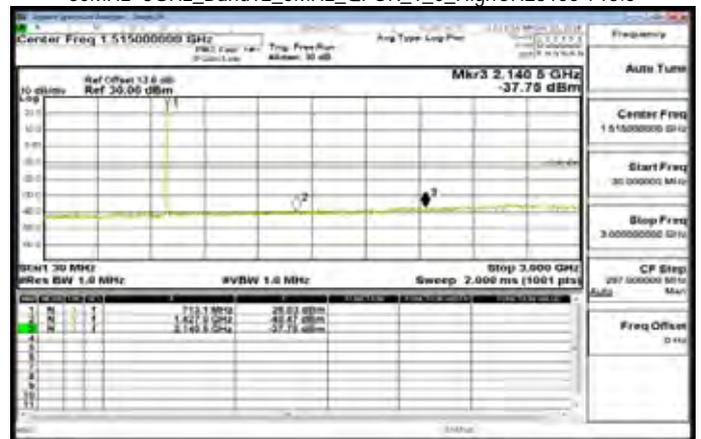
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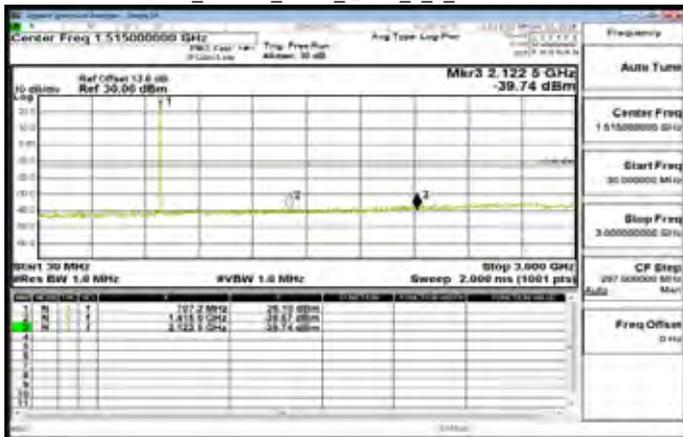
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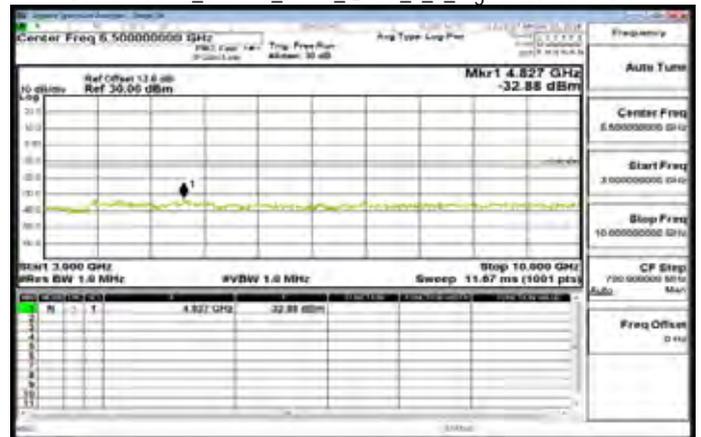
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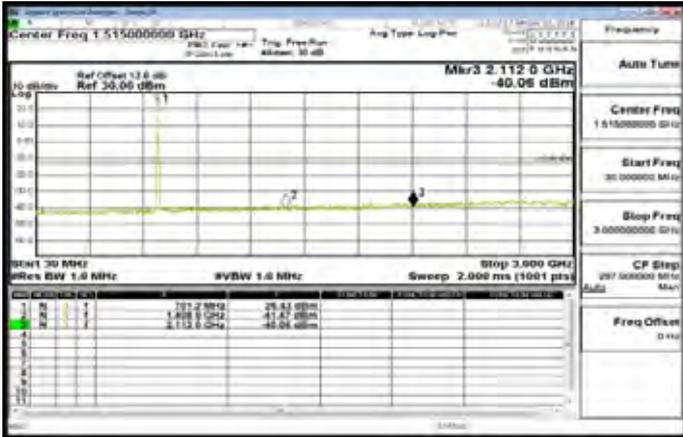
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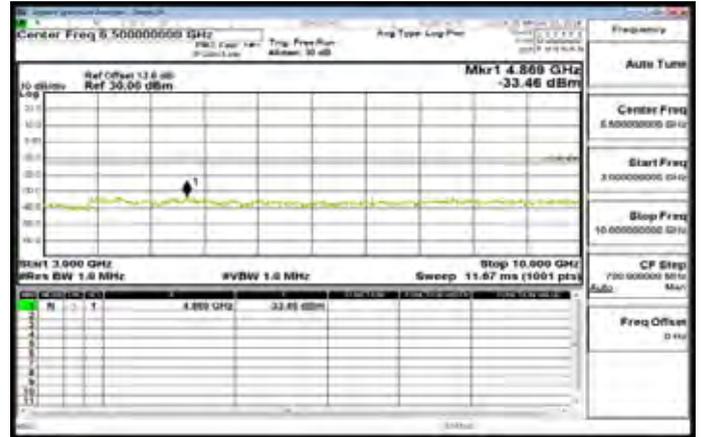
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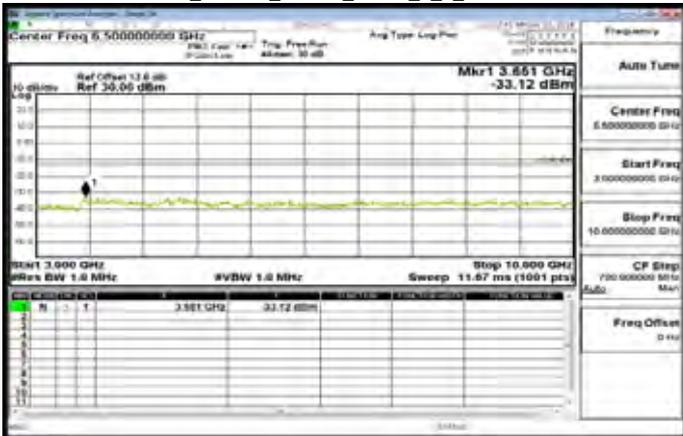
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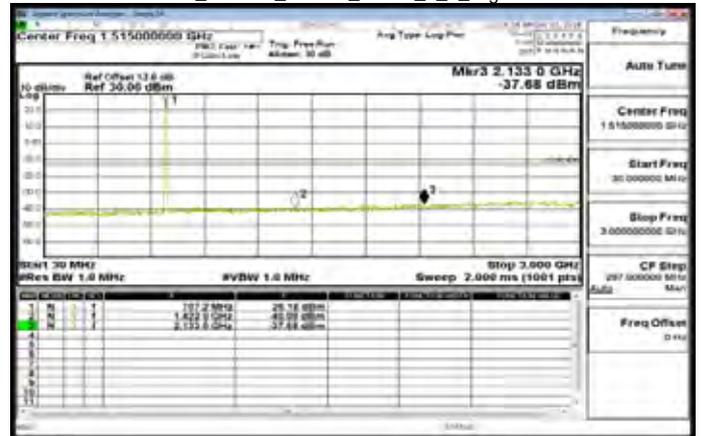
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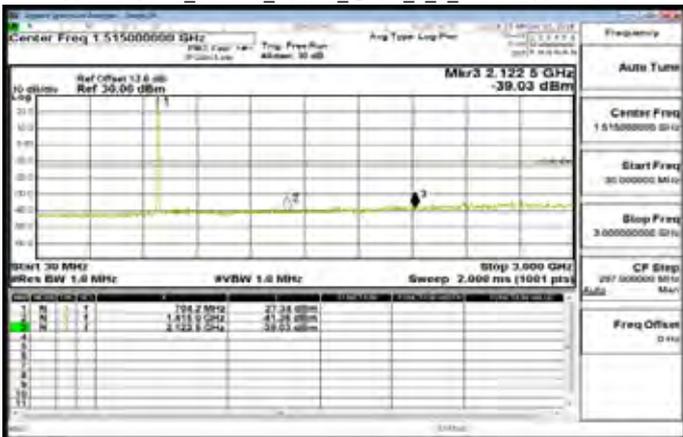
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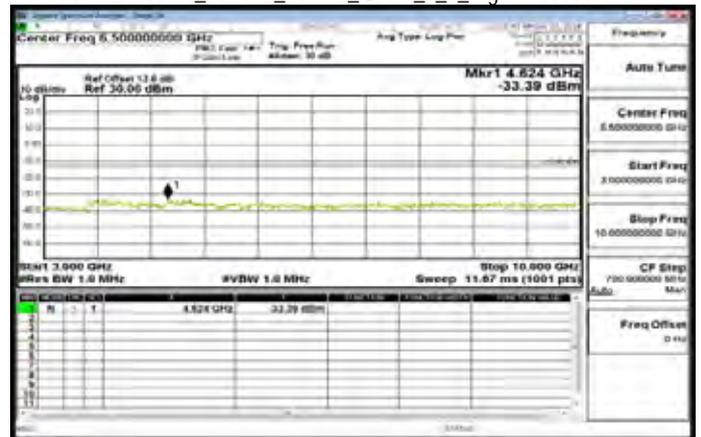
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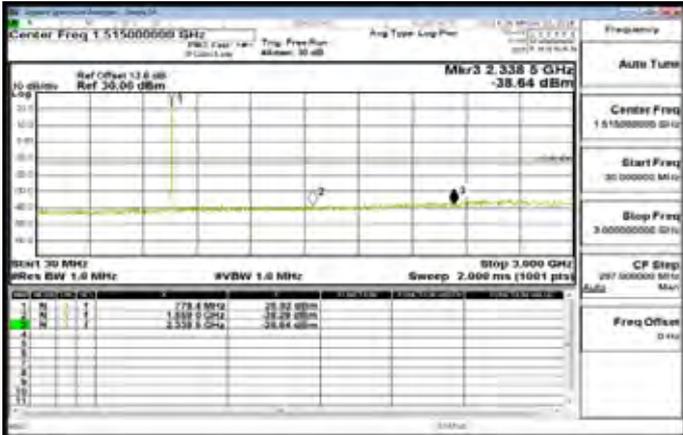
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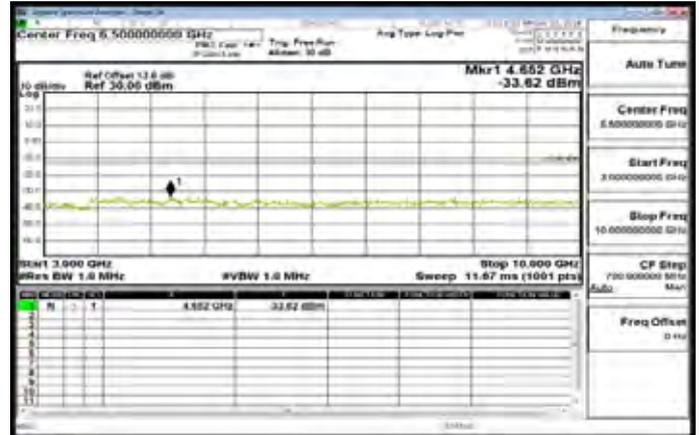
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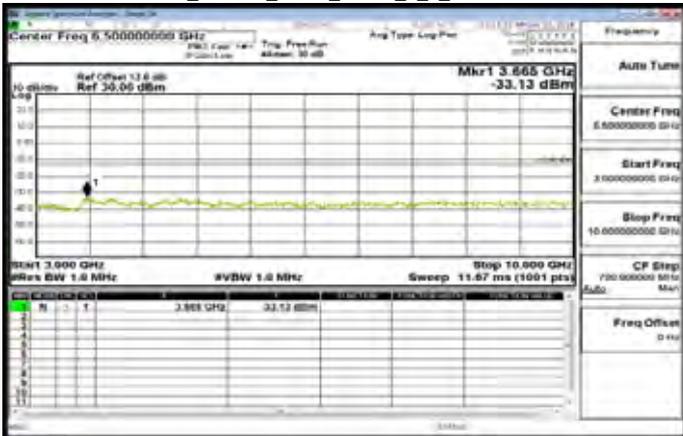
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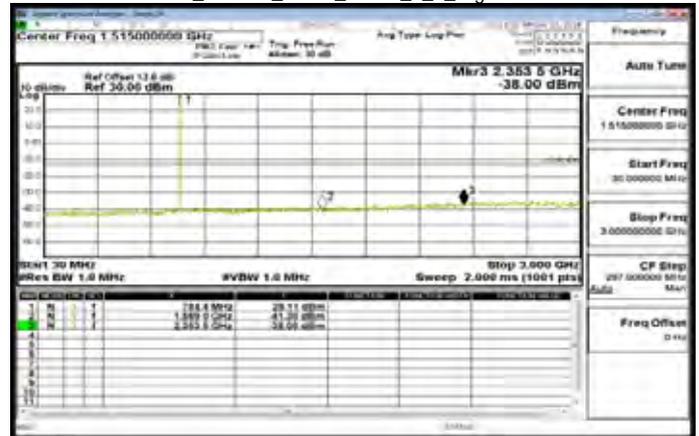
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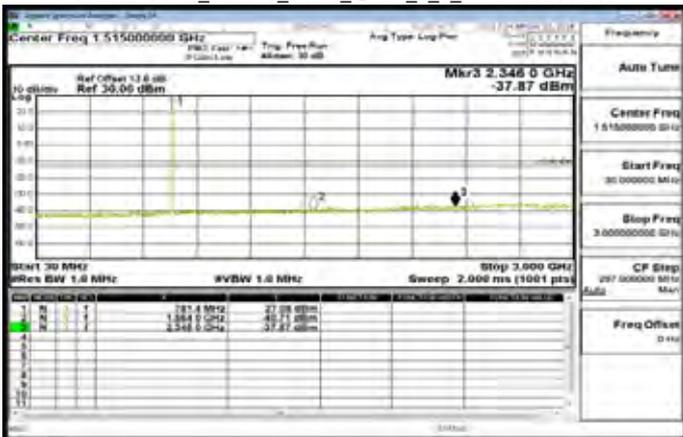
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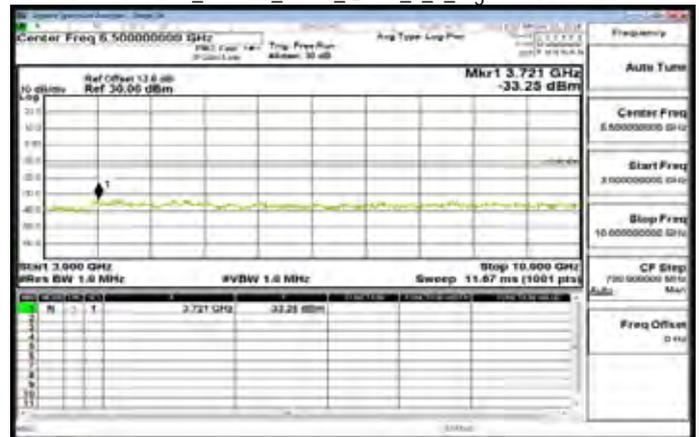
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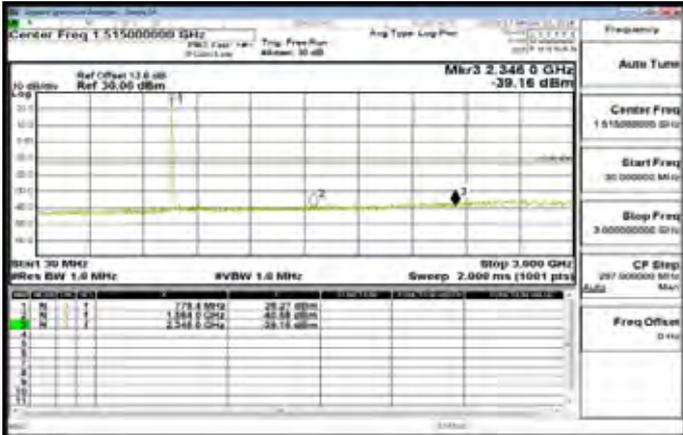
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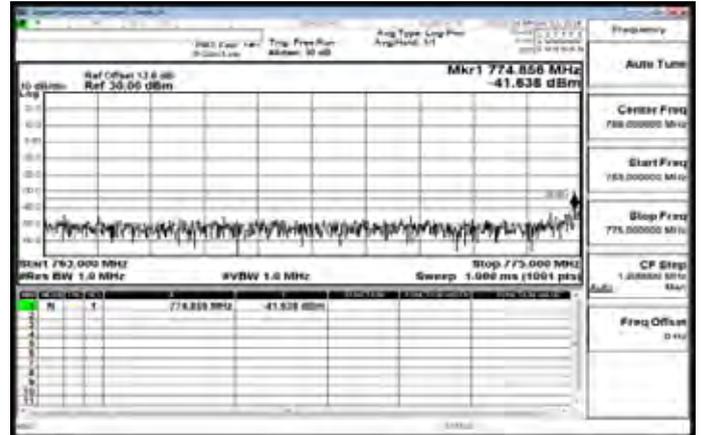
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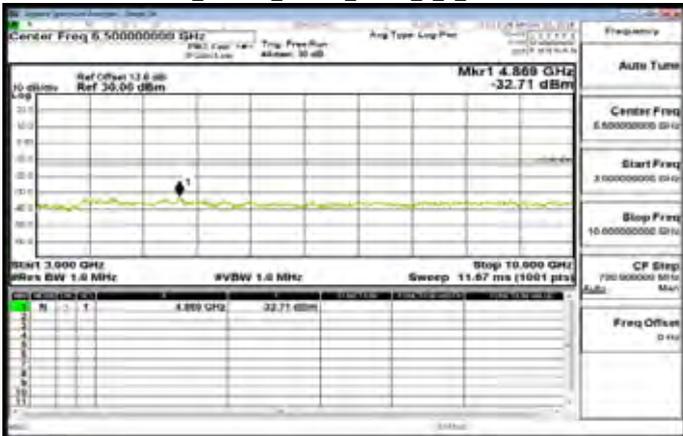
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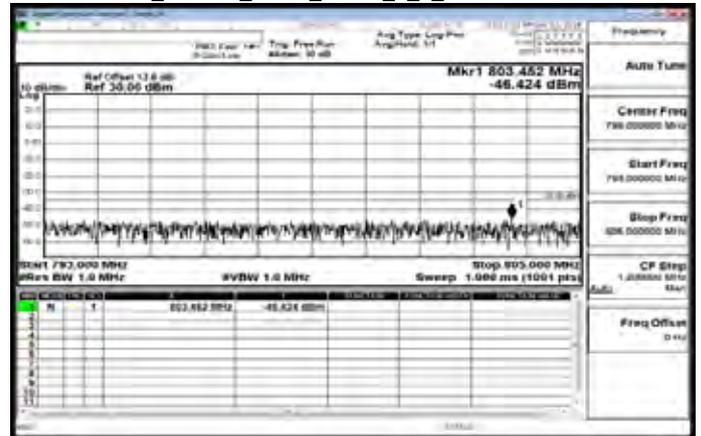
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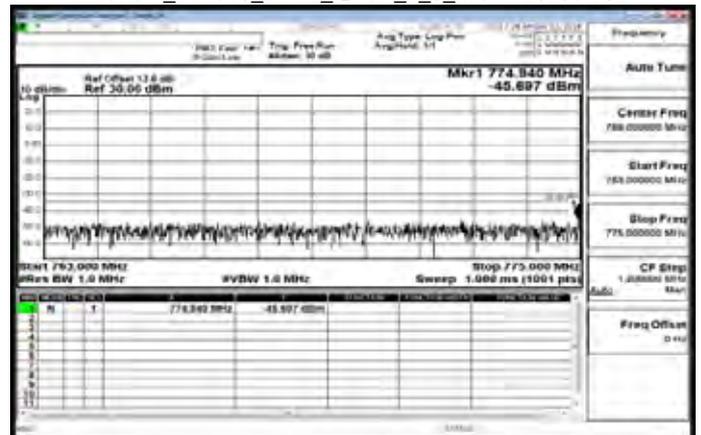
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Inband-1\_Band13\_5MHz\_QPSK\_1\_0\_MidCH23230-782



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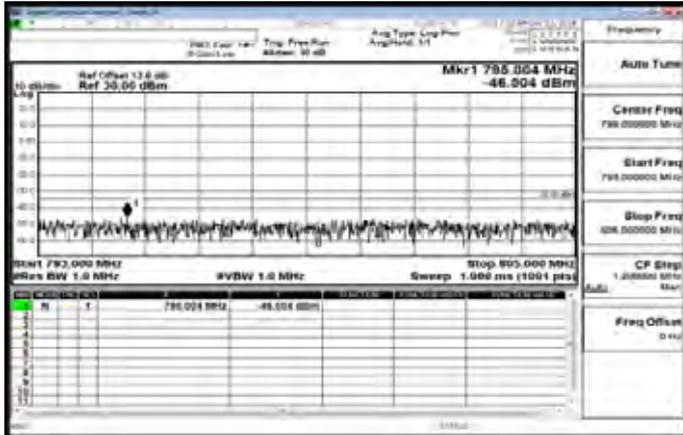
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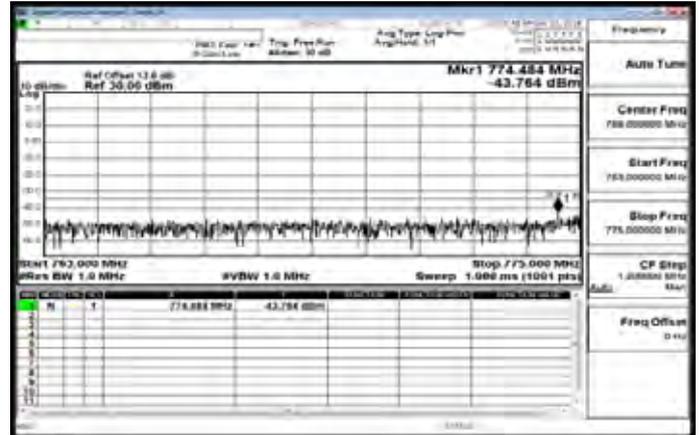
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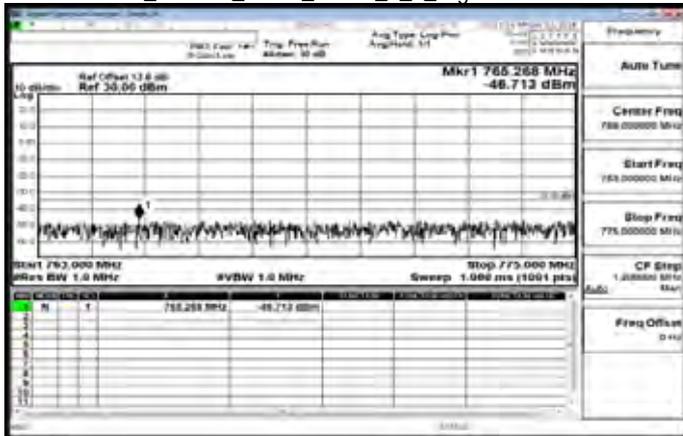
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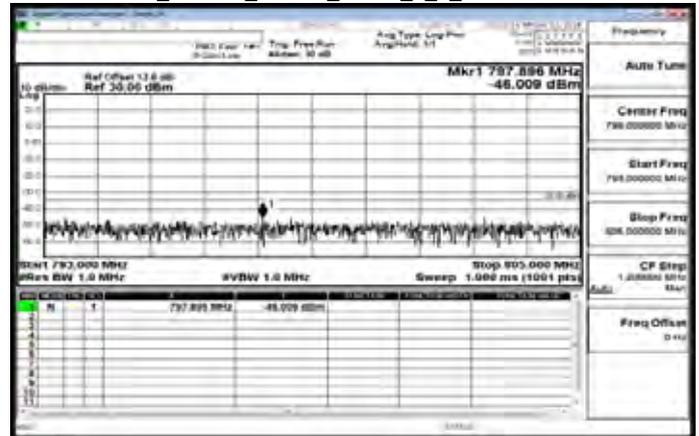
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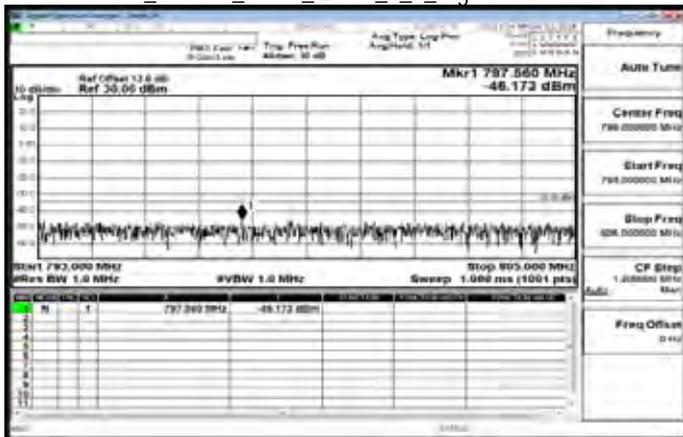
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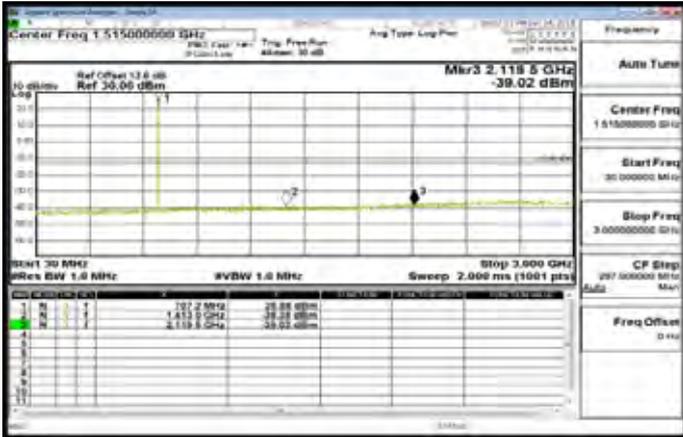
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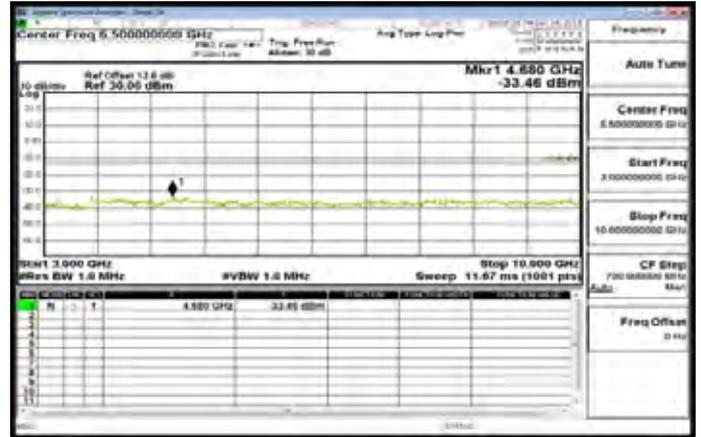
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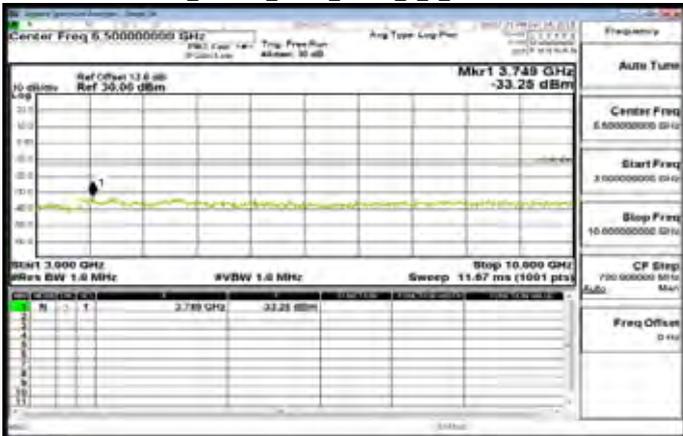
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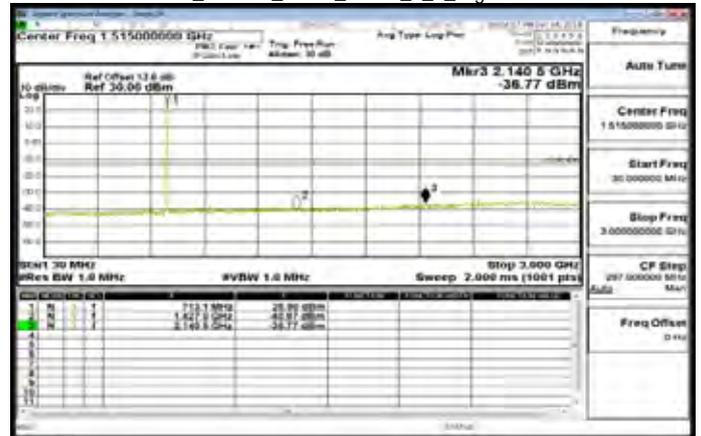
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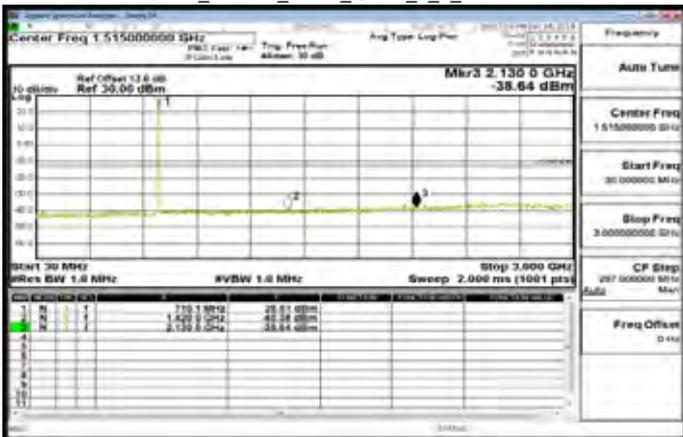
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30MHz-3GHz\_Band17\_5MHz\_QPSK\_1\_0\_MidCH23790-710



3GHz-10GHz\_Band17\_5MHz\_QPSK\_1\_0\_HighCH23825-713.5



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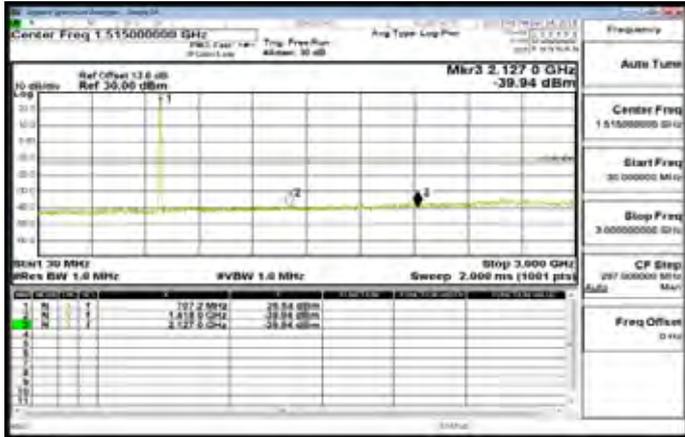
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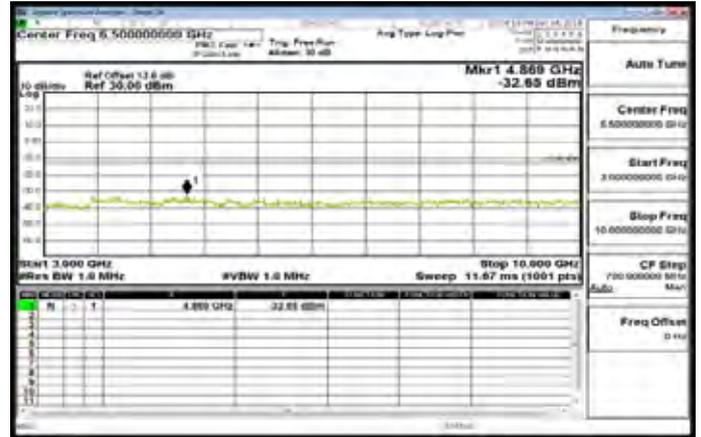
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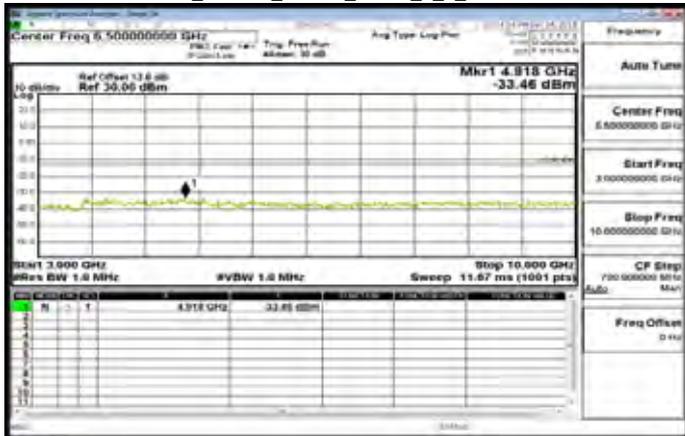
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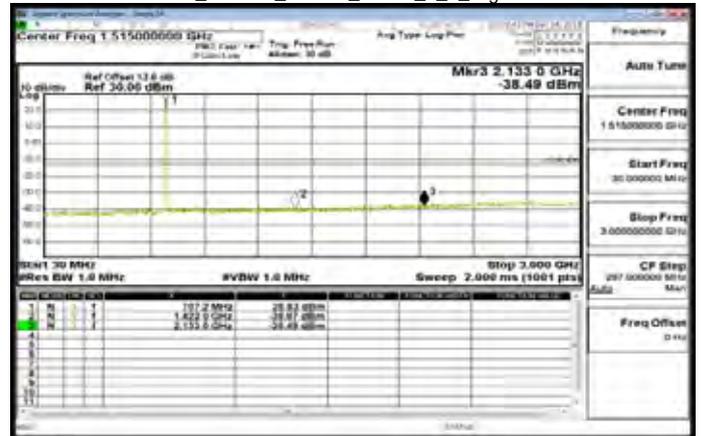
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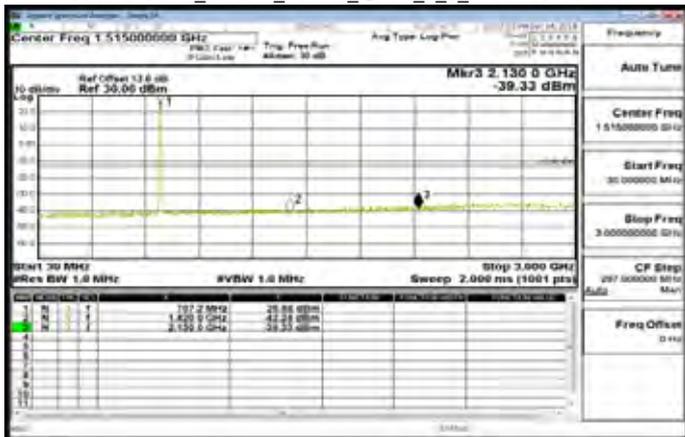
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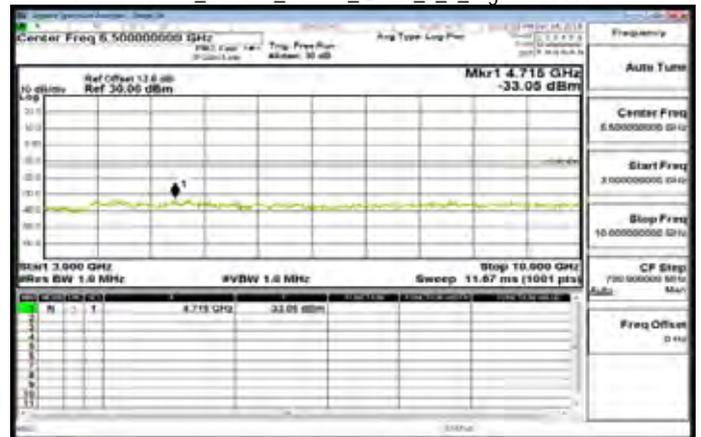
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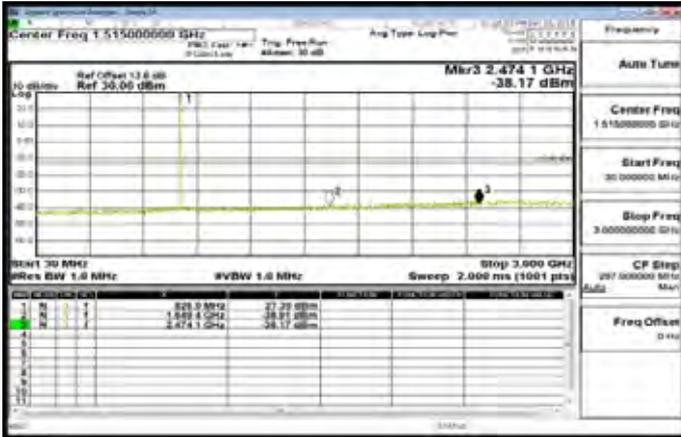
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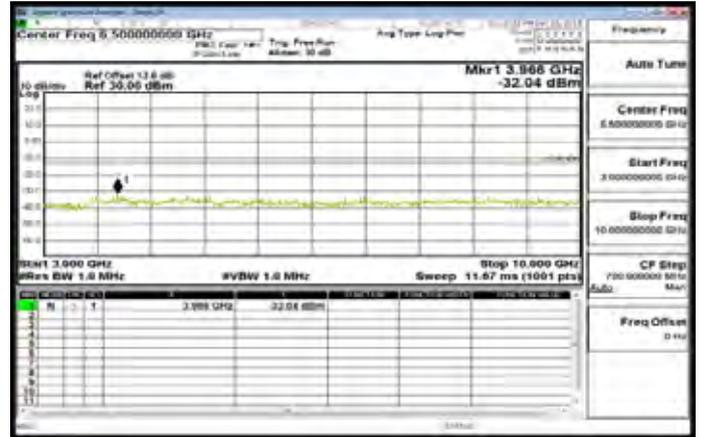
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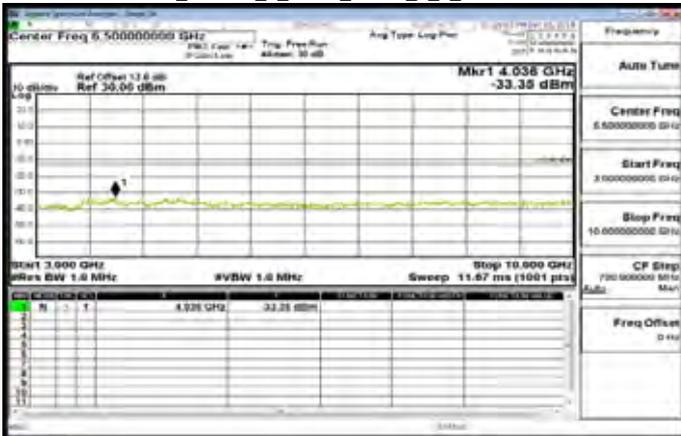
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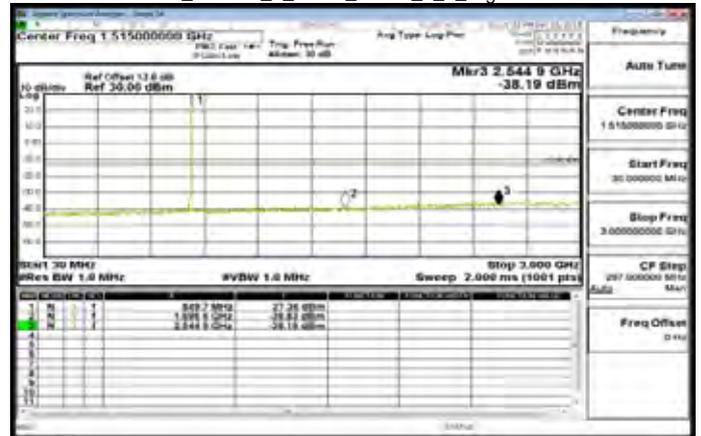
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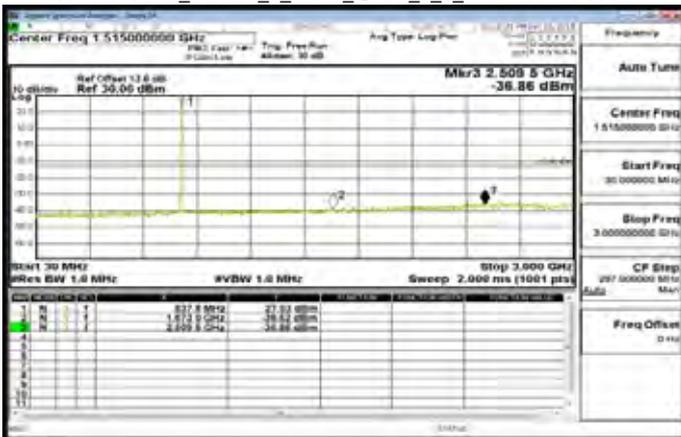
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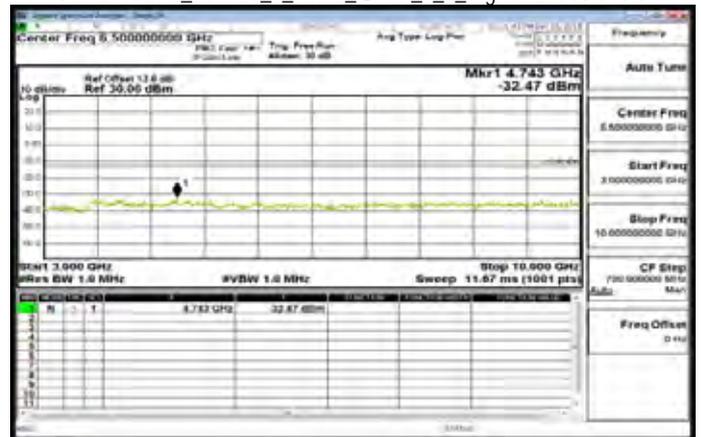
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3GHz-10GHz\_Band26\_1\_4MHz\_QPSK\_1\_0\_HighCH27033-848.3



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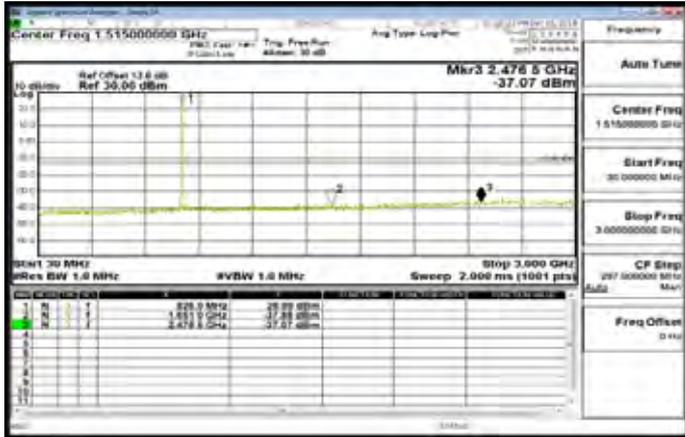
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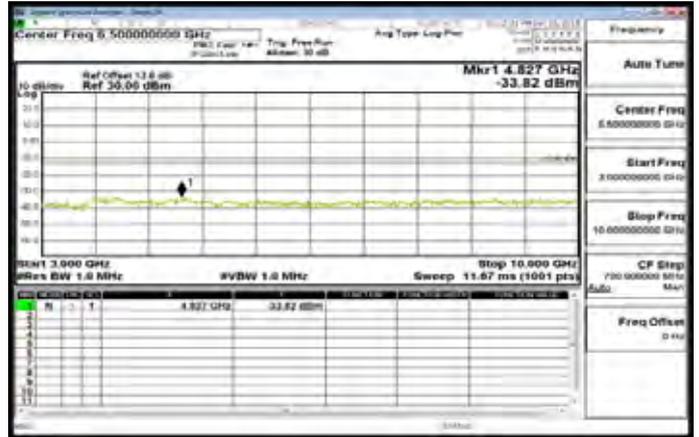
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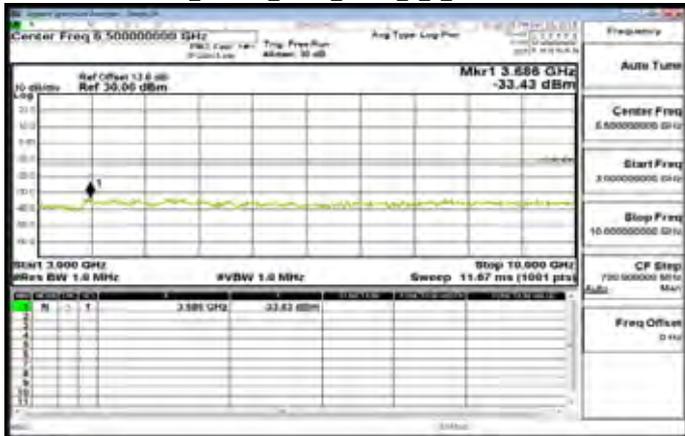
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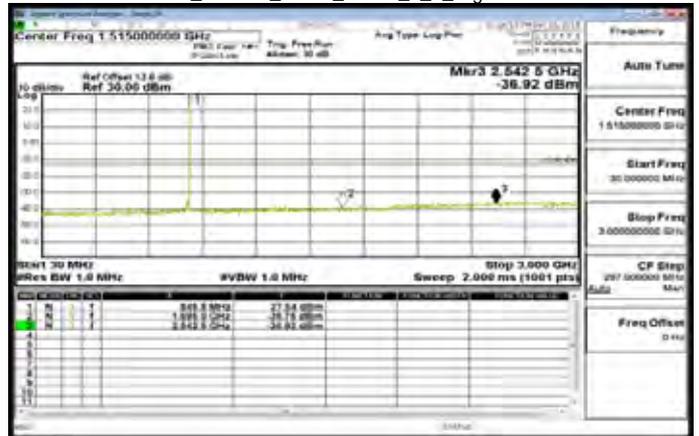
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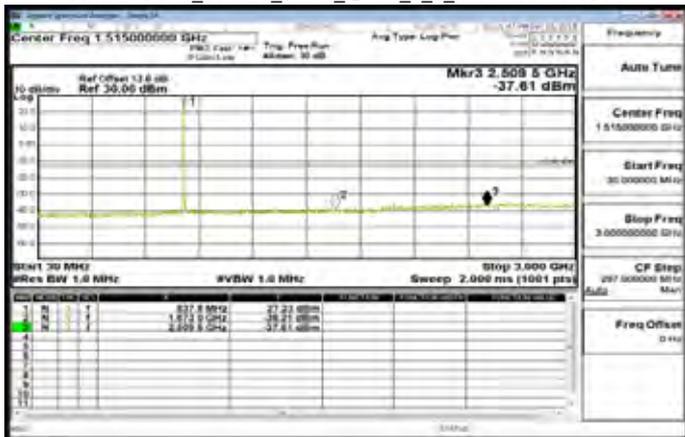
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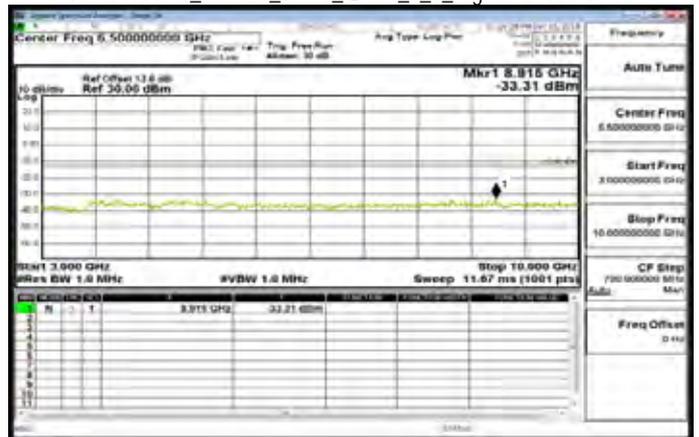
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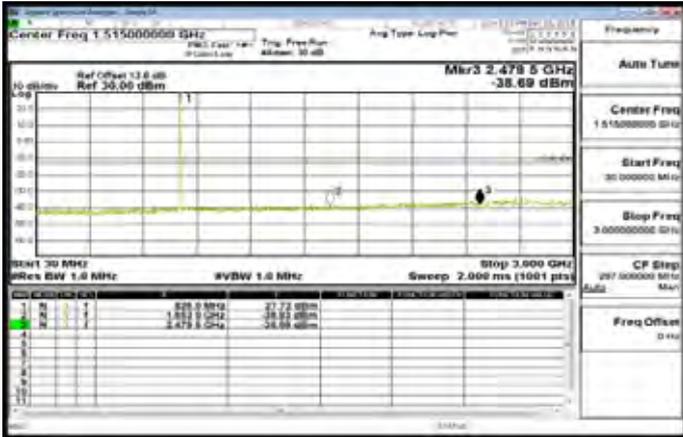
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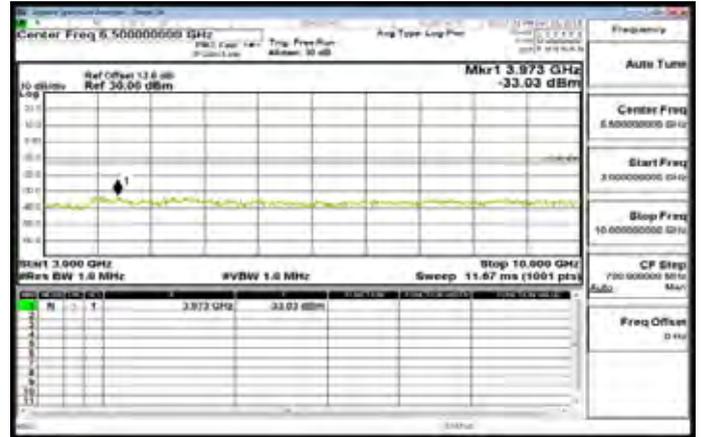
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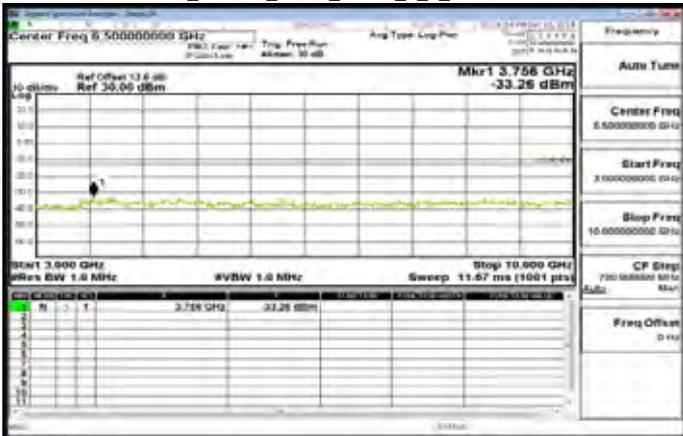
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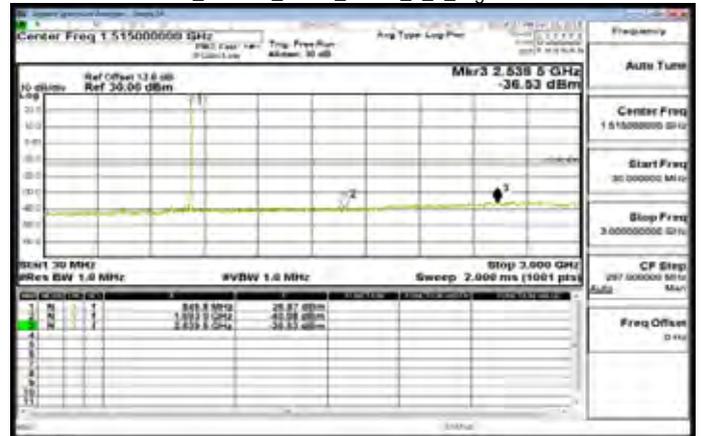
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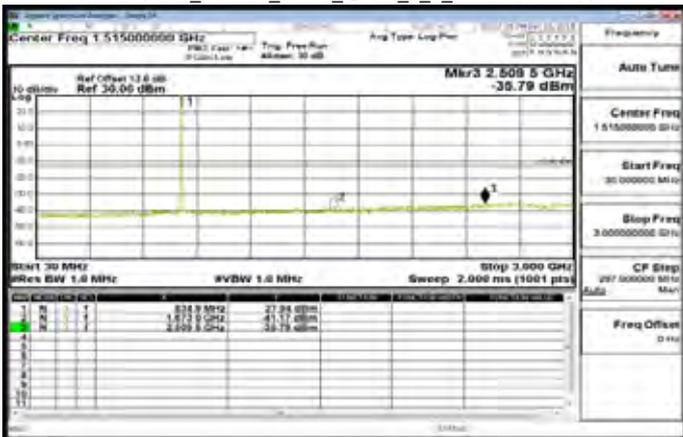
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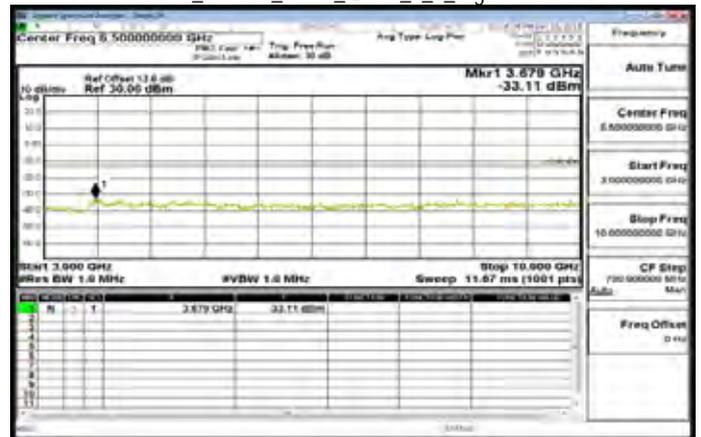
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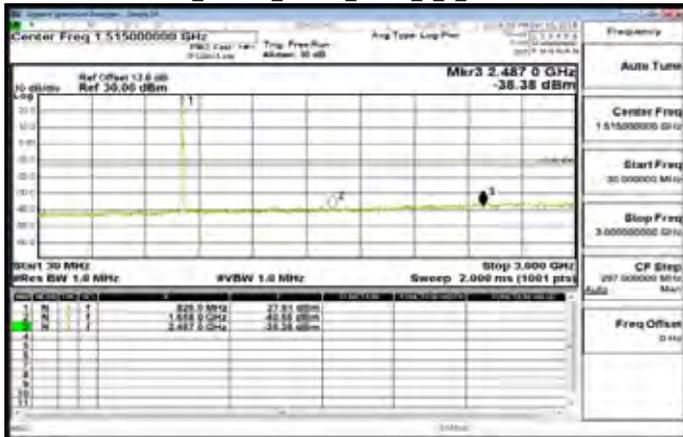
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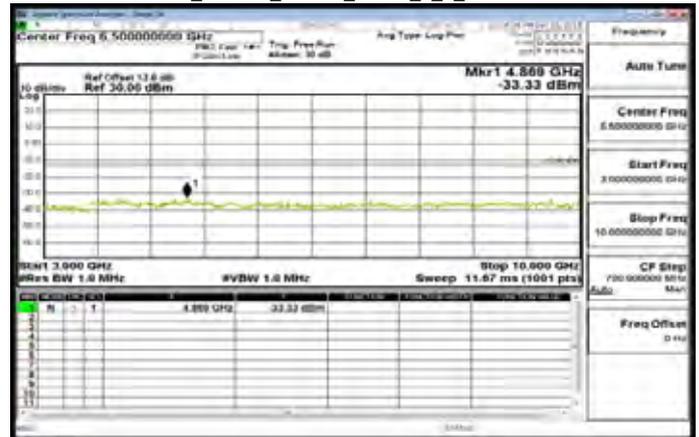
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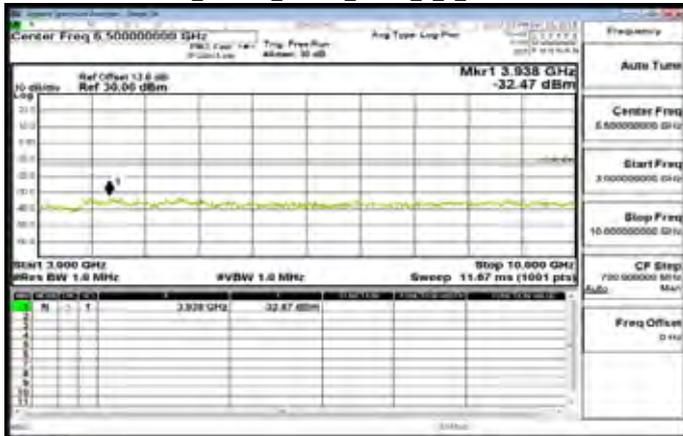
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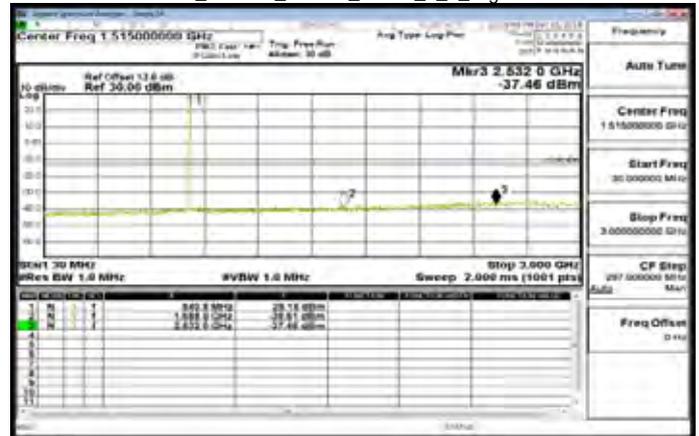
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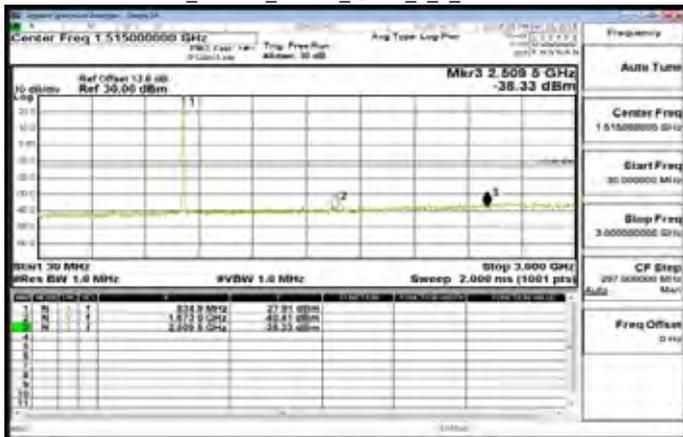
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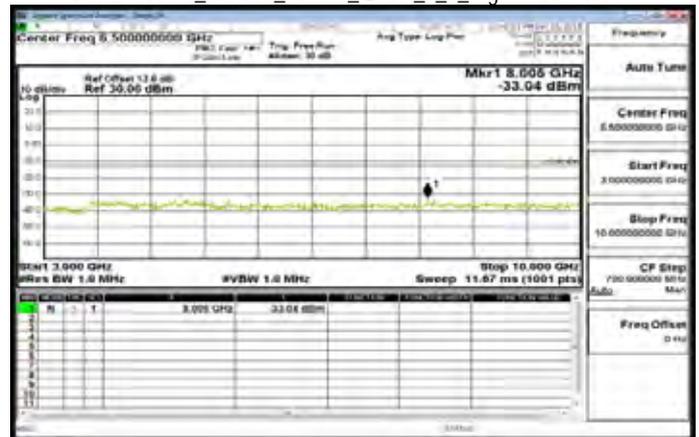
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30MHz~3GHz\_Band26\_10MHz\_QPSK\_1\_0\_MidCH26915-836.5



3GHz~10GHz\_Band26\_10MHz\_QPSK\_1\_0\_HighCH26990-844



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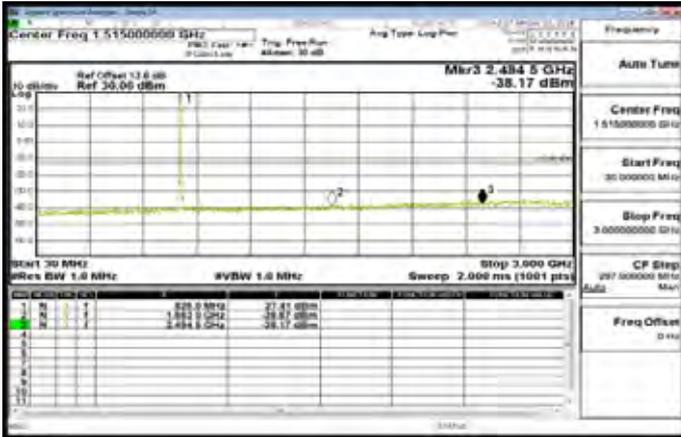
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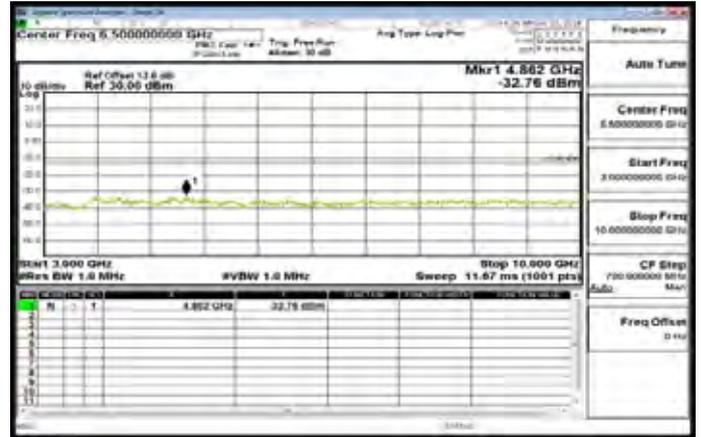
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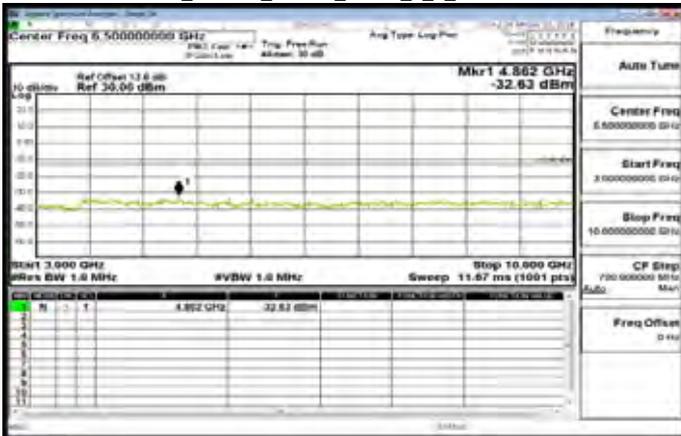
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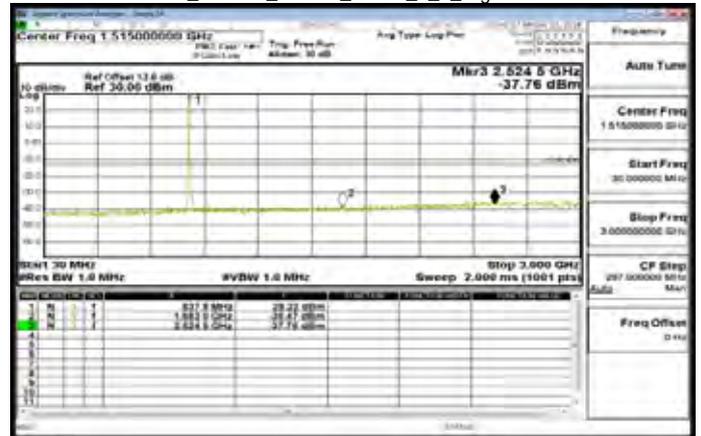
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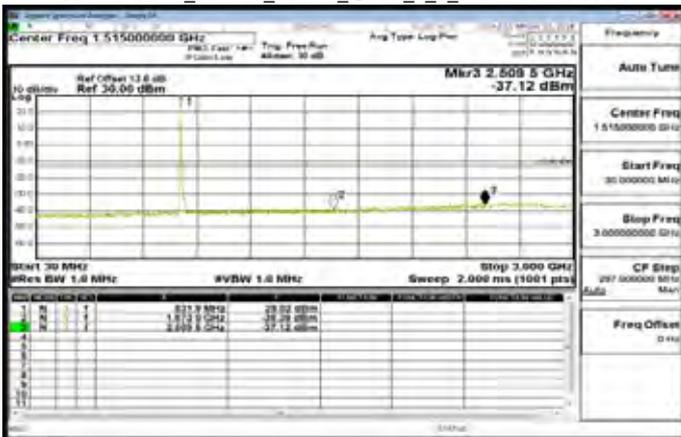
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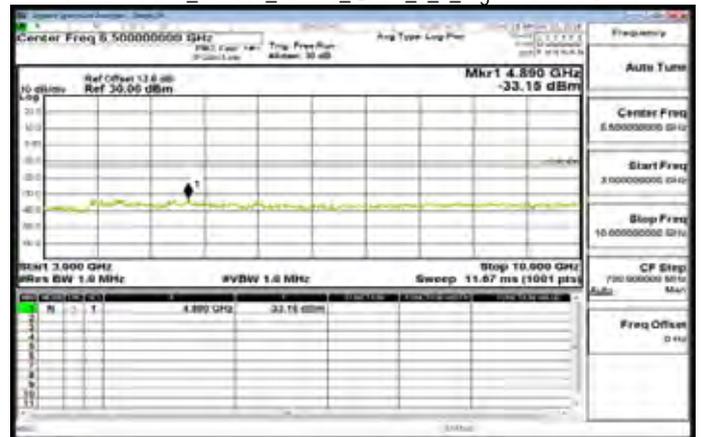
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3GHz-10GHz\_Band26\_15MHz\_QPSK\_1\_0\_HighCH26965-841.5



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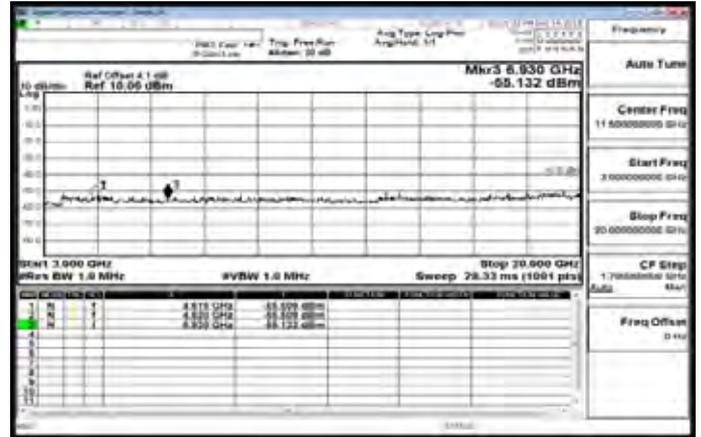
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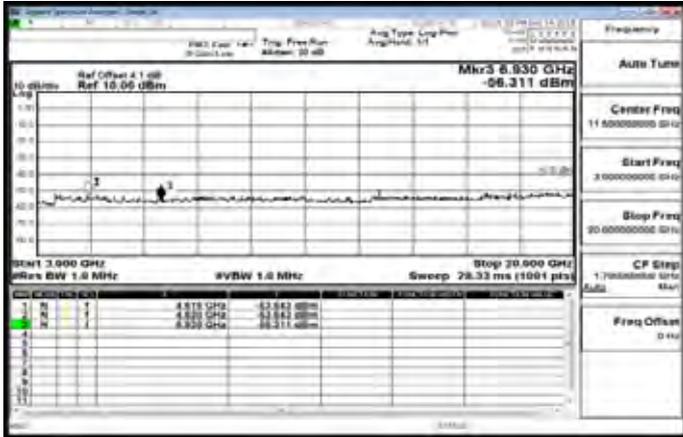
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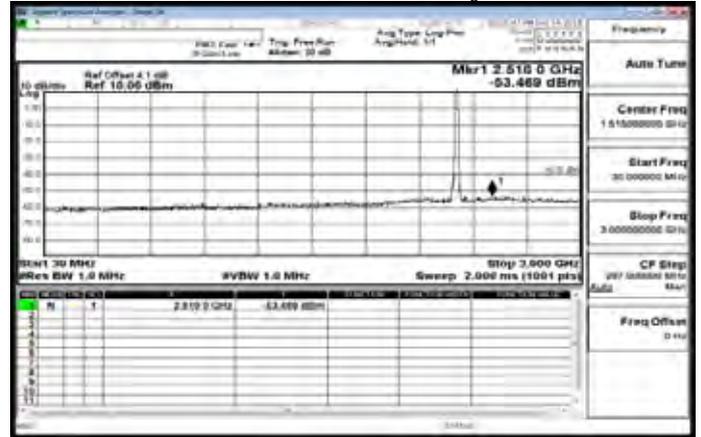
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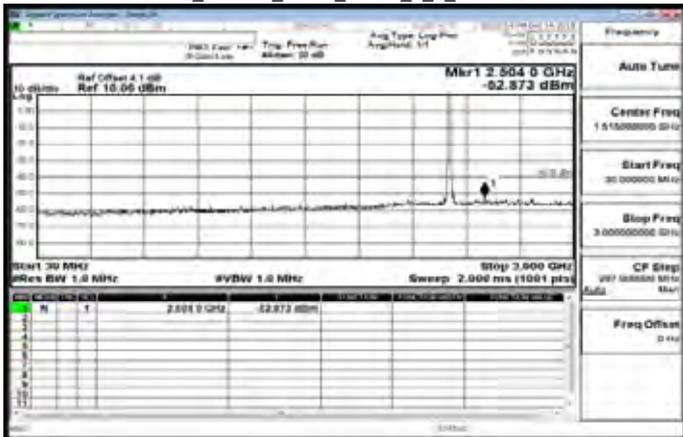
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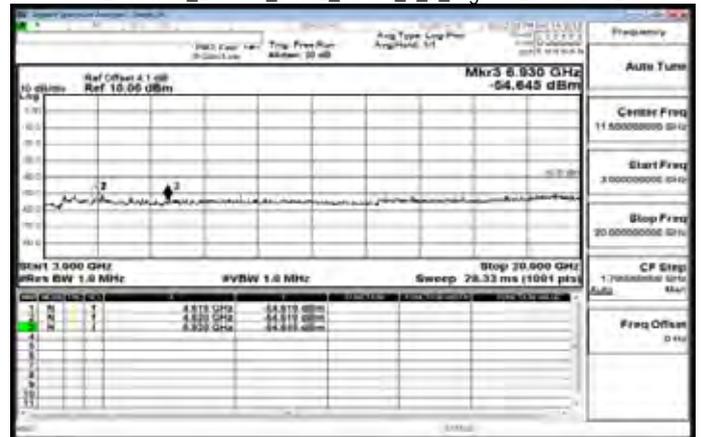
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30MHz-3GHz\_Band30\_5MHz\_QPSK\_1\_0\_MidCH27710-2310



3GHz-10GHz\_Band30\_5MHz\_QPSK\_1\_0\_HighCH27735-2312.5



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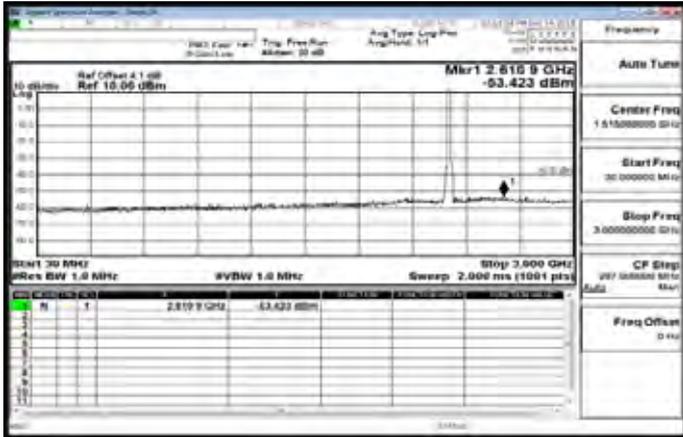
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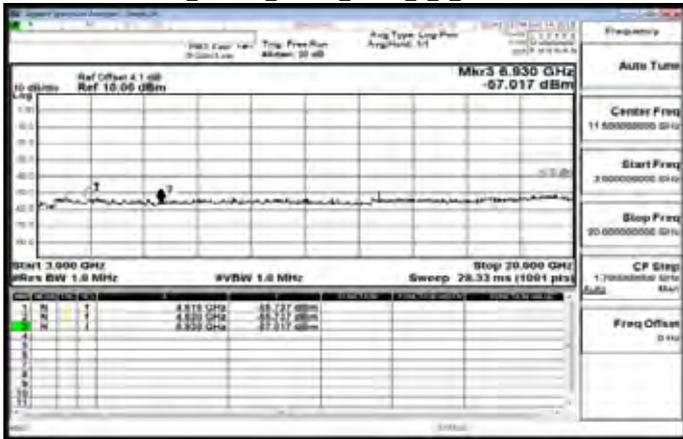
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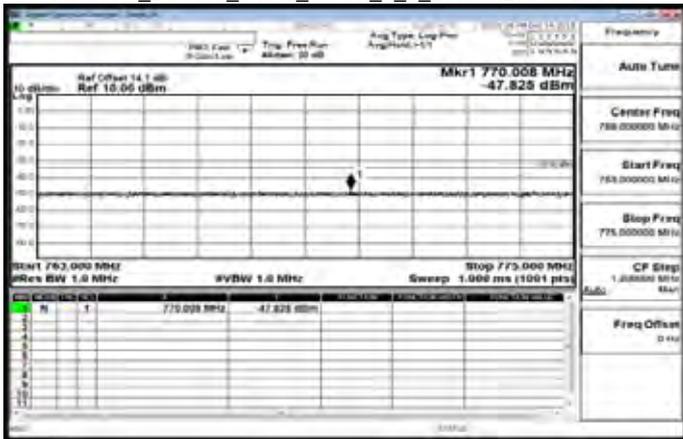
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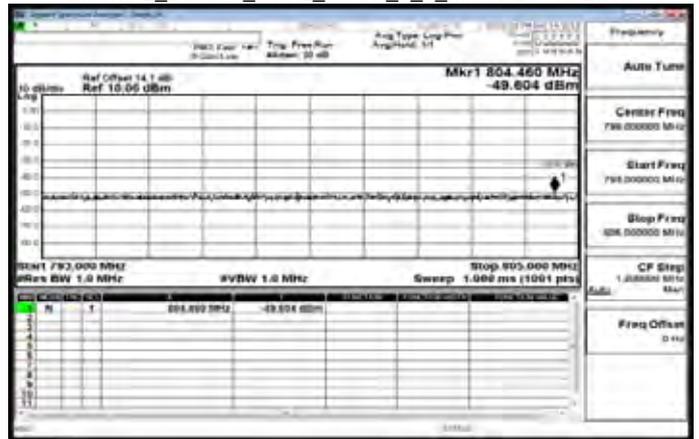
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Inband-1\_Band30\_5MHz\_QPSK\_1\_0\_LowCH27685-2307.5



Inband-2\_Band30\_5MHz\_QPSK\_1\_0\_MidCH27710-2310



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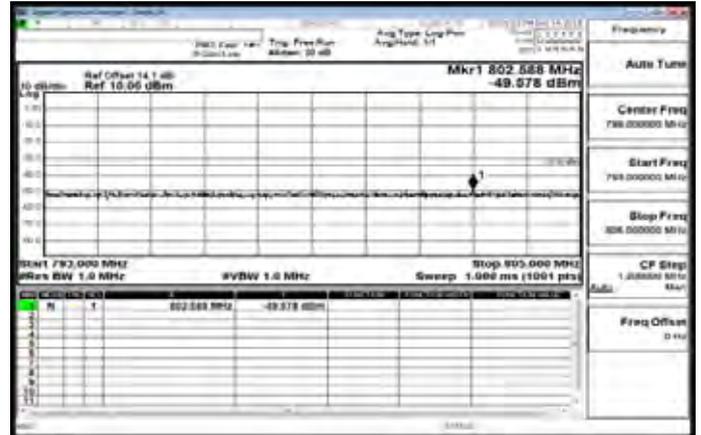
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Inband-1\_Band30\_5MHz\_QPSK\_1\_0\_HighCH27735-2312.5



Inband-2\_Band30\_10MHz\_QPSK\_1\_0\_MidCH27710-2310



Inband-2\_Band30\_5MHz\_QPSK\_1\_0\_HighCH27735-2312.5



Inband-1\_Band30\_10MHz\_QPSK\_1\_0\_MidCH27710-2310



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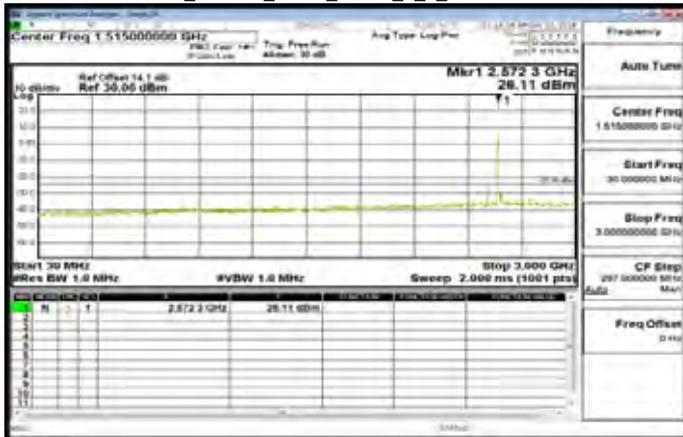
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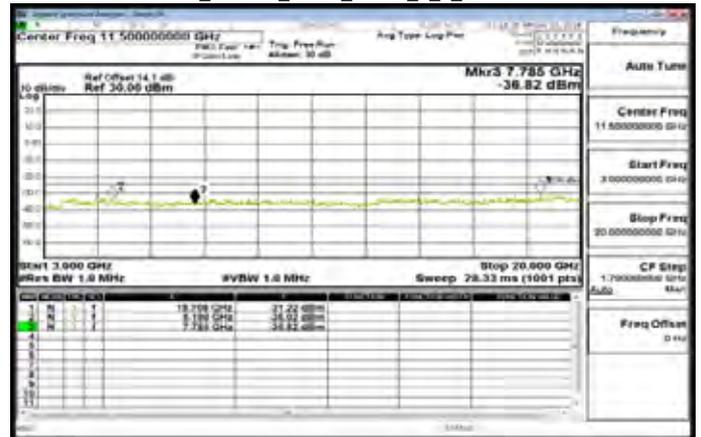
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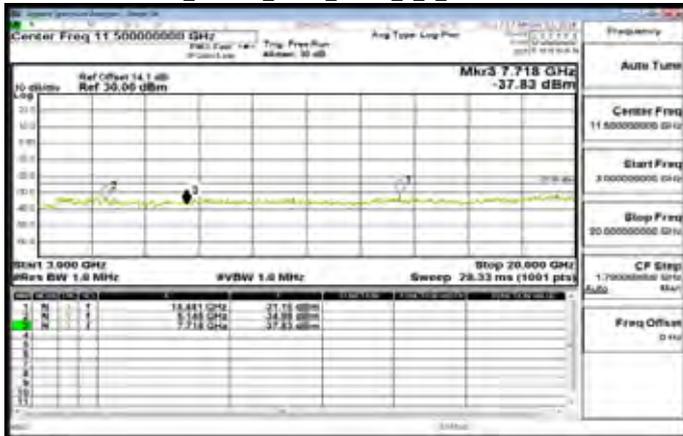
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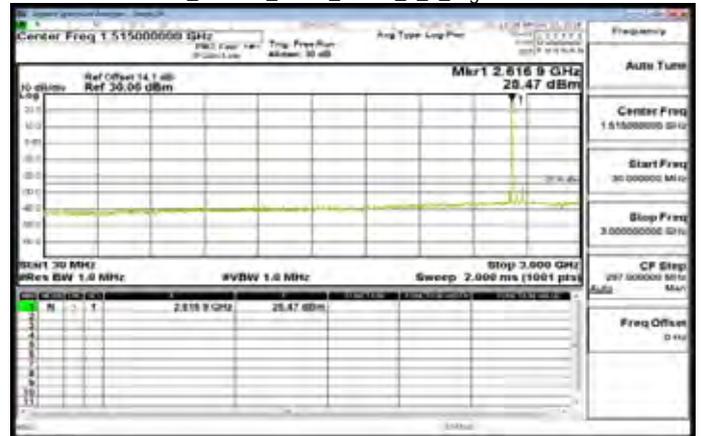
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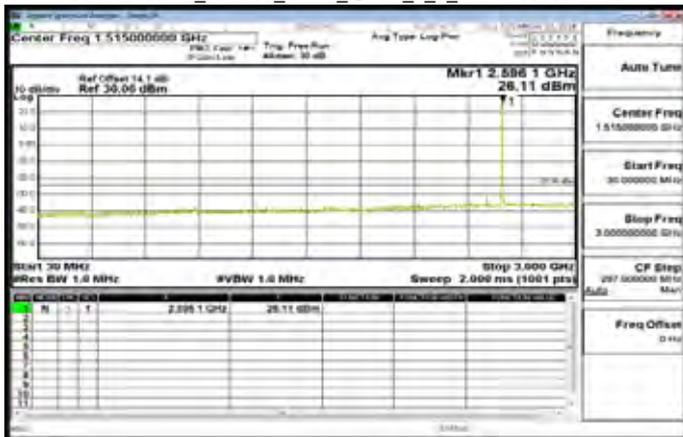
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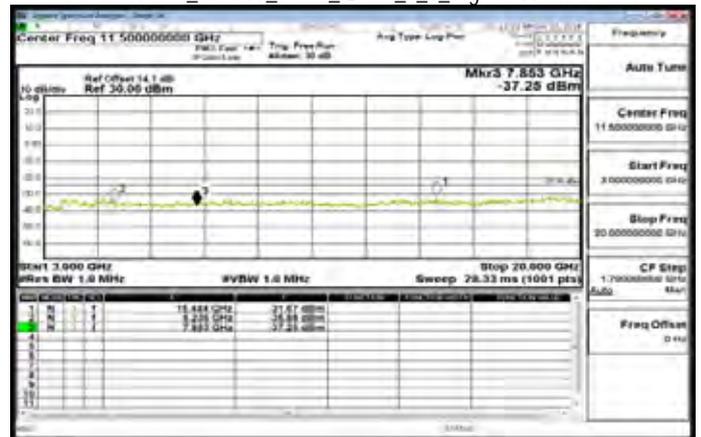
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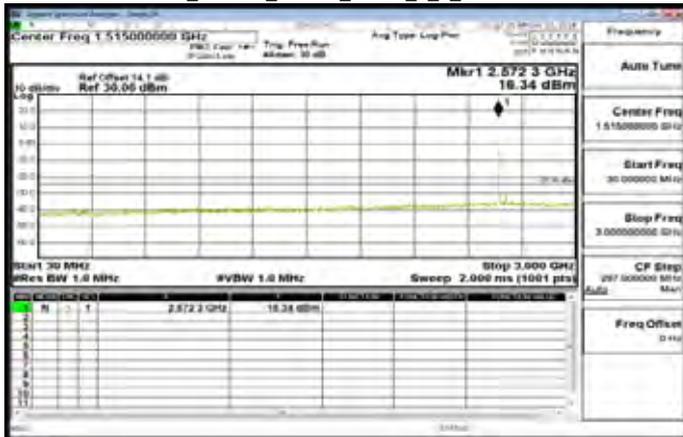
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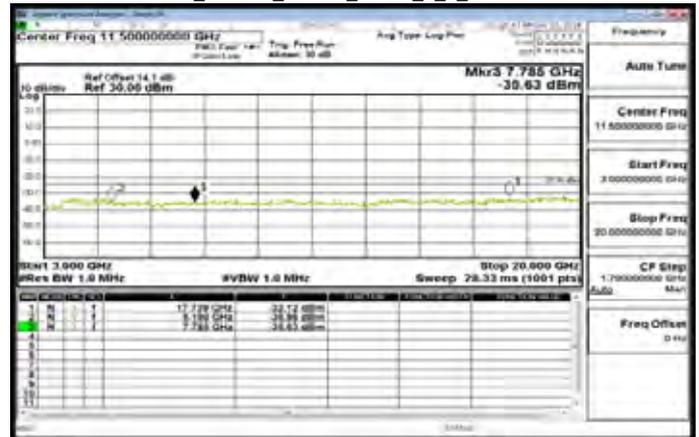
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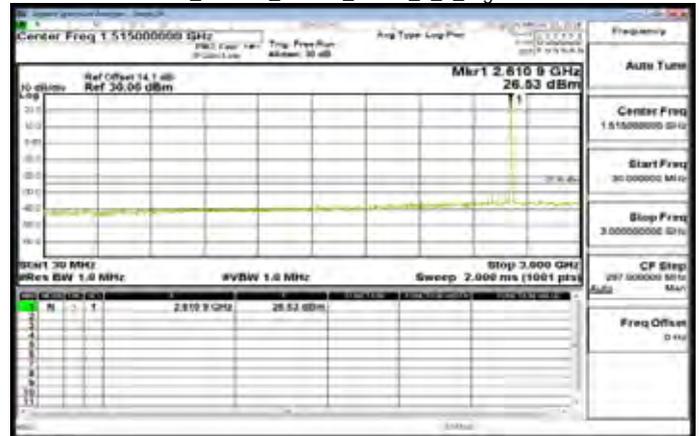
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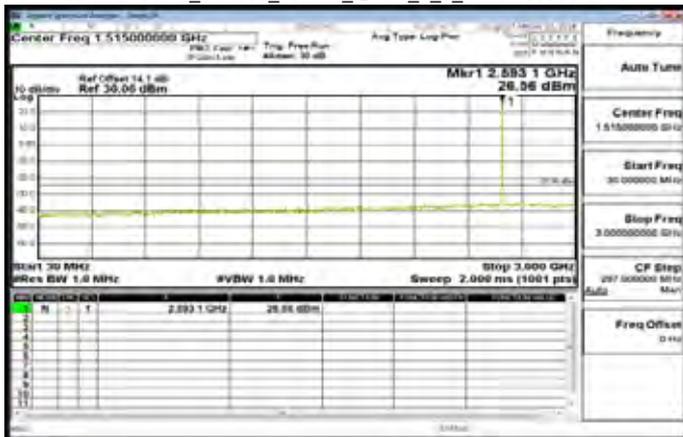
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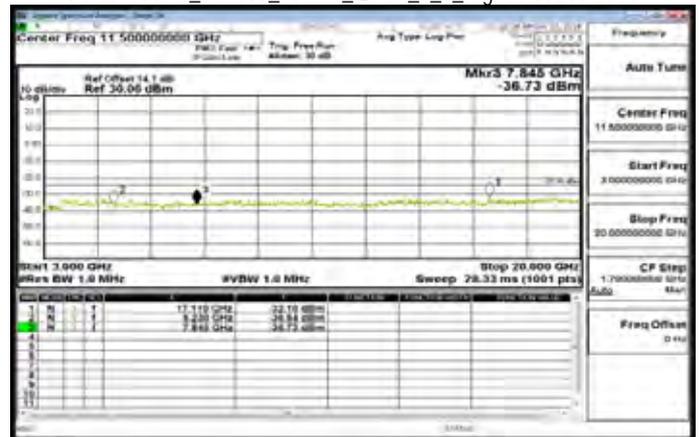
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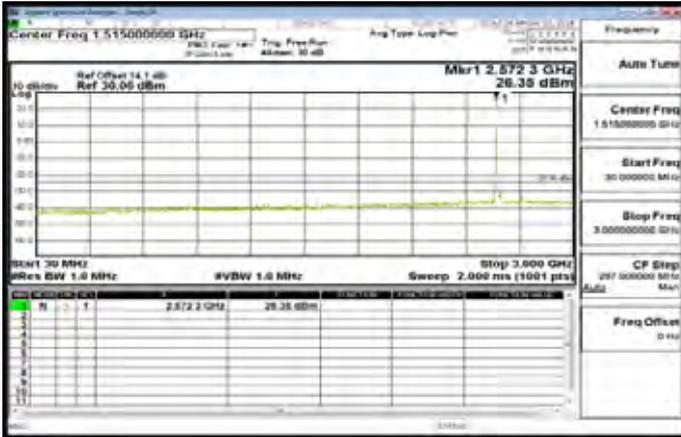
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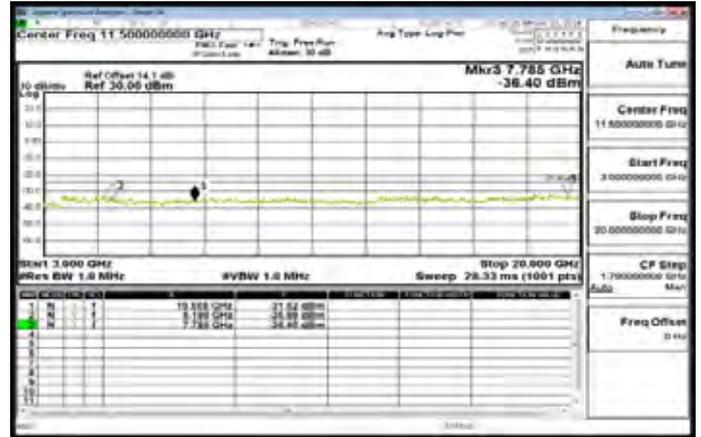
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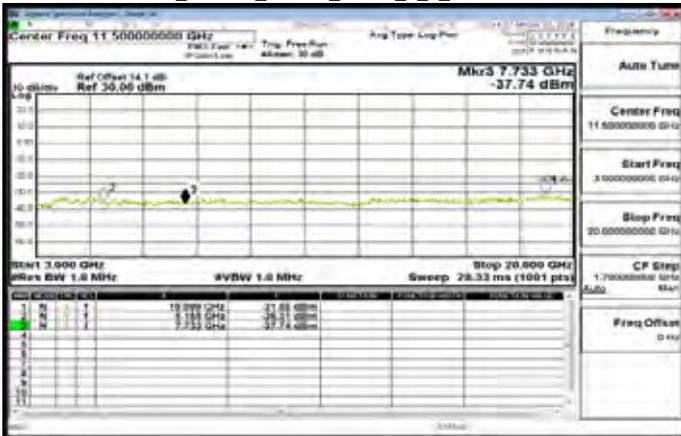
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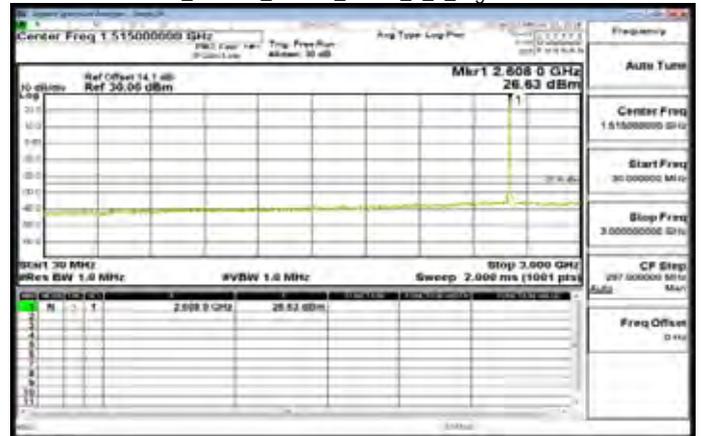
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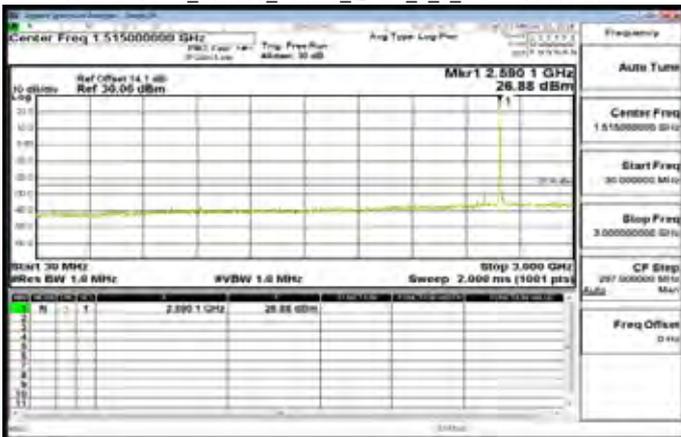
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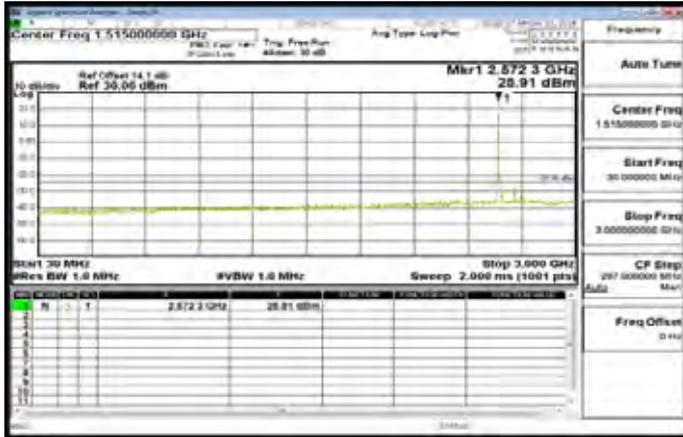
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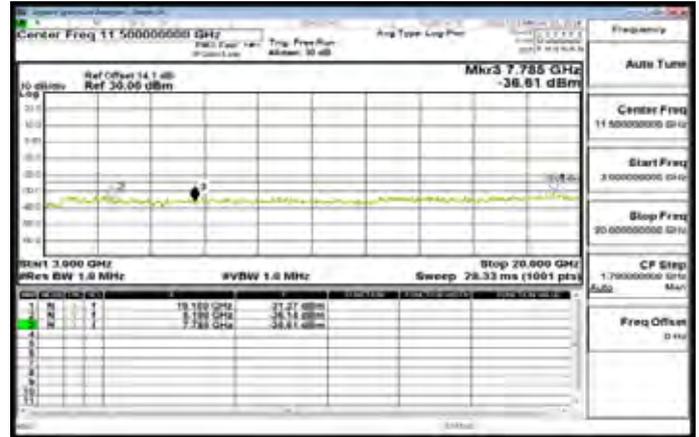
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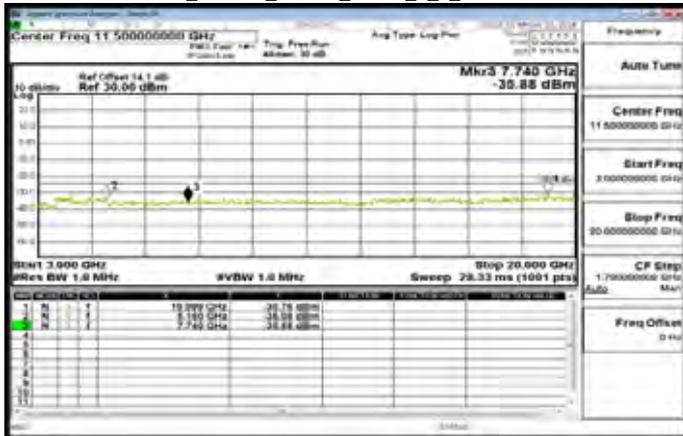
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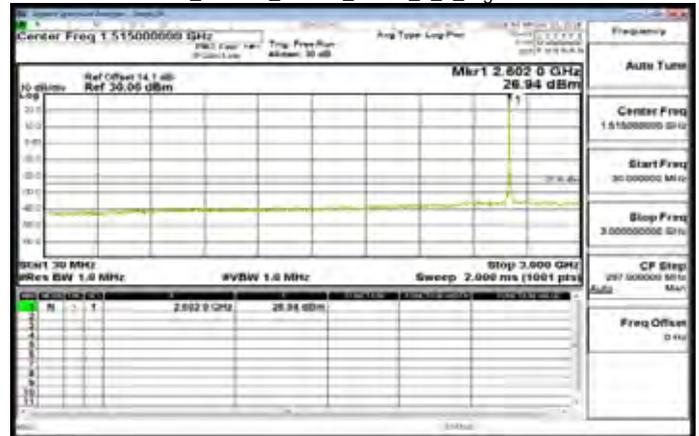
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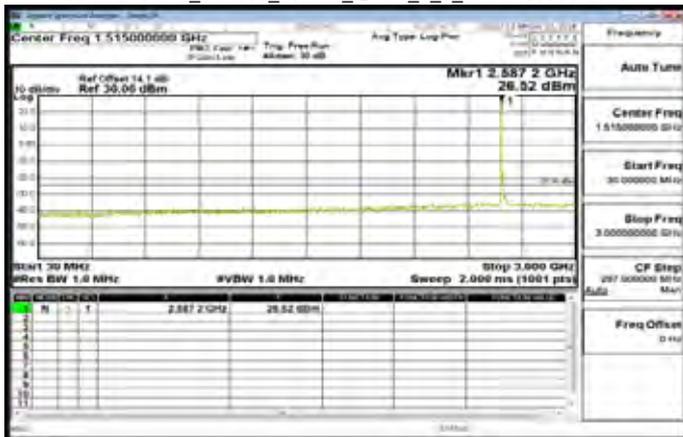
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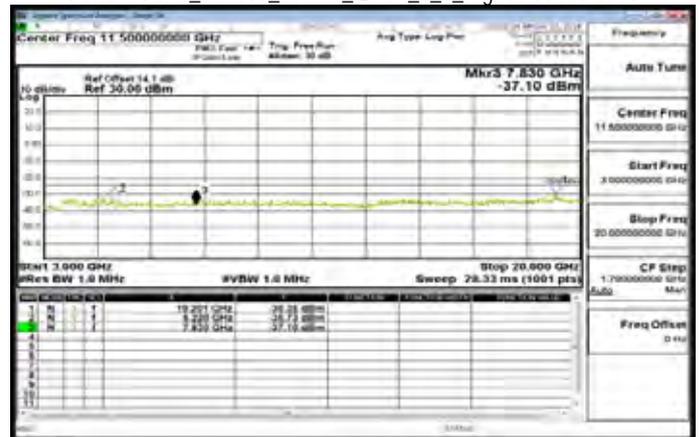
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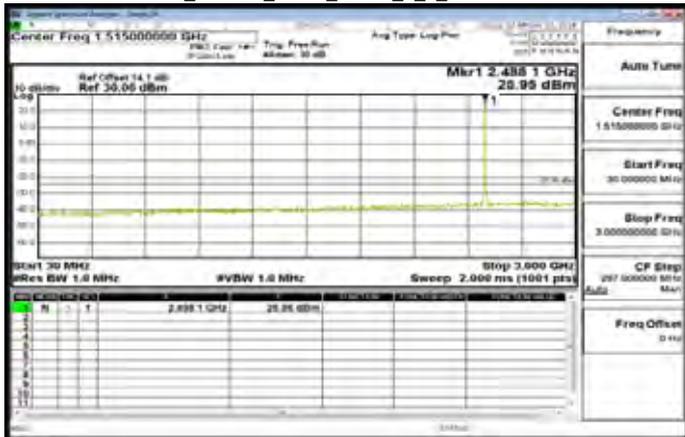
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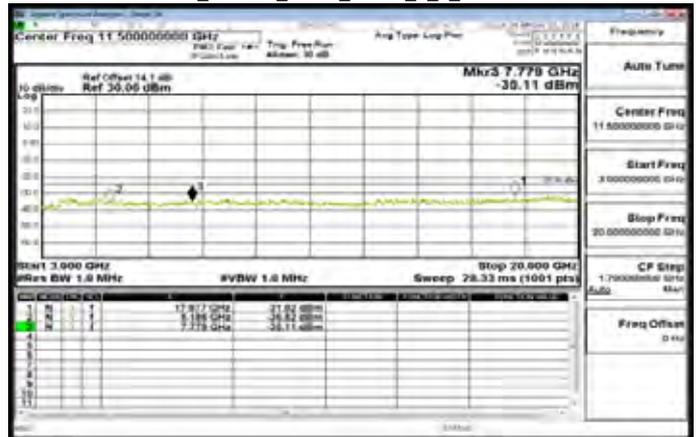
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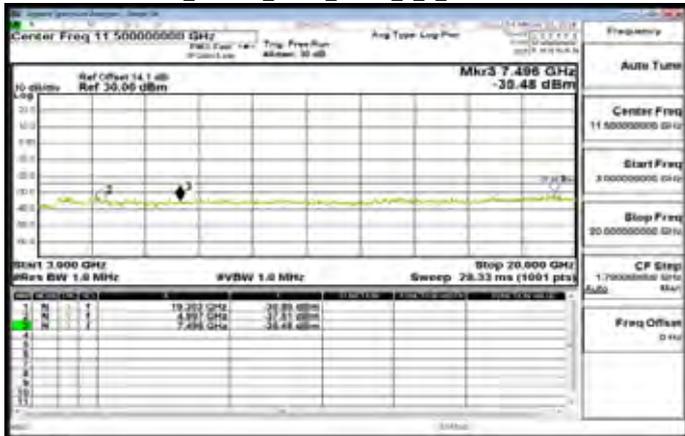
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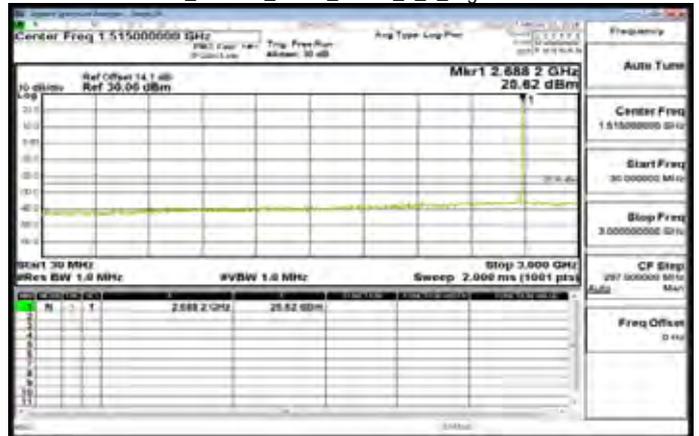
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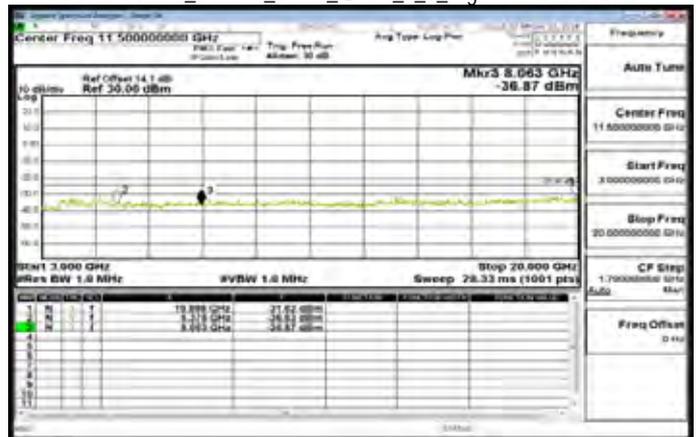
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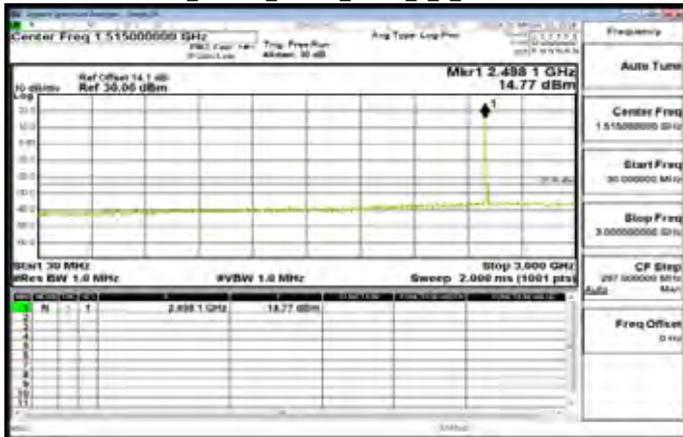
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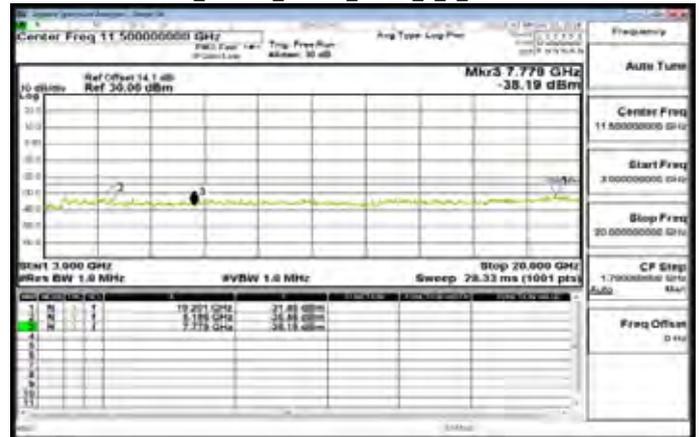
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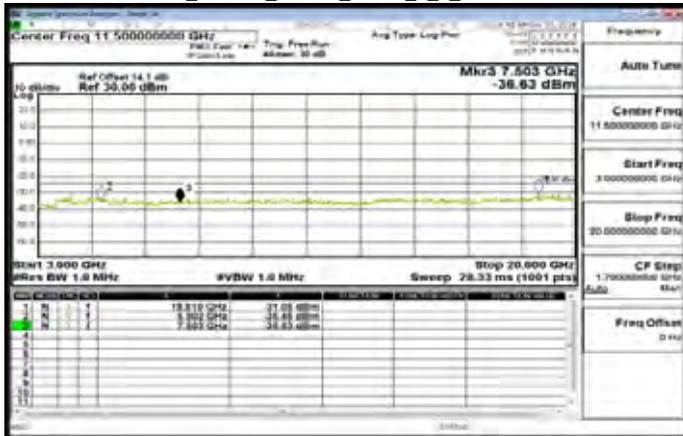
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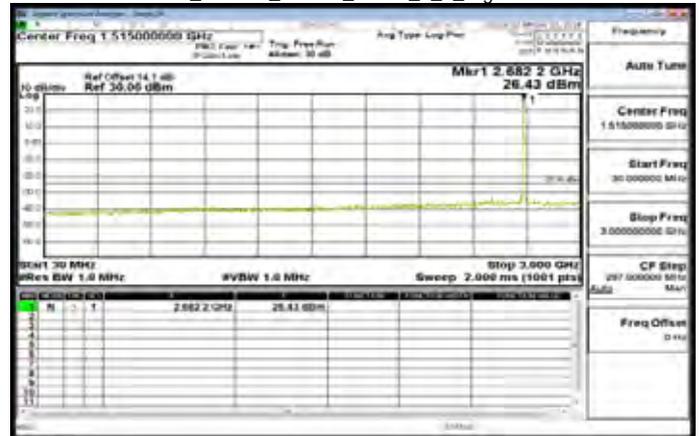
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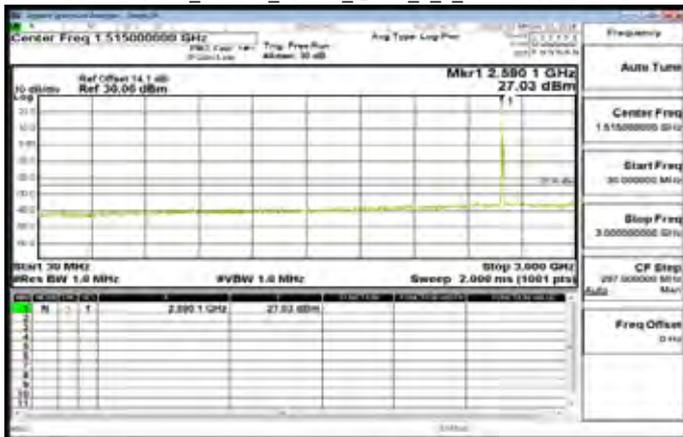
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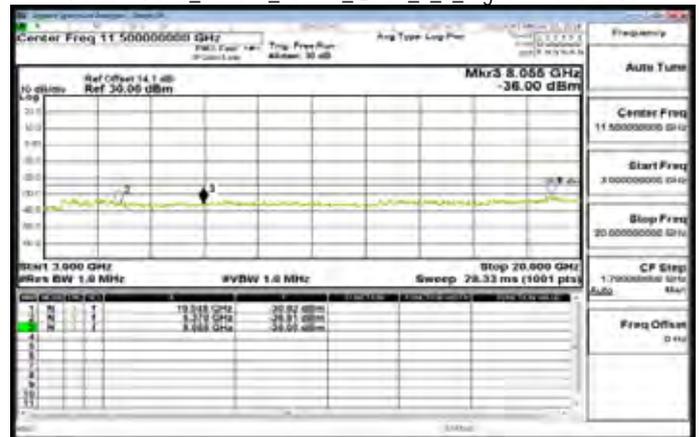
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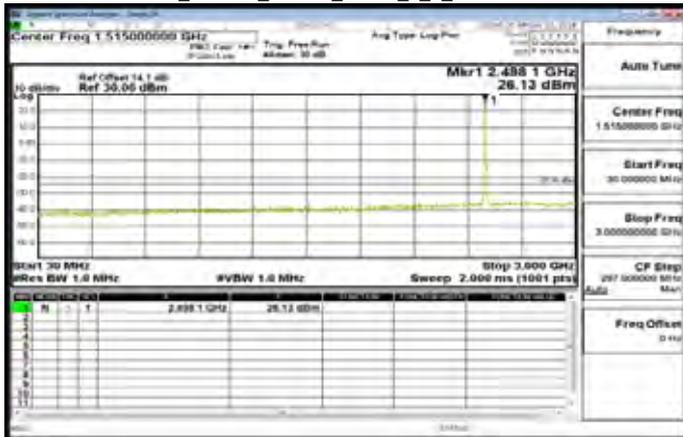
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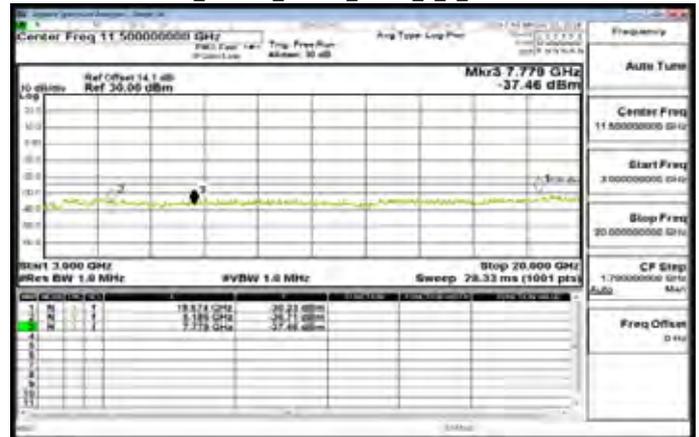
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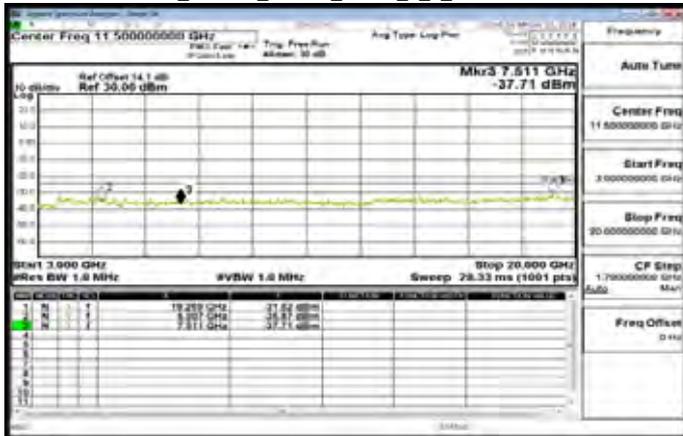
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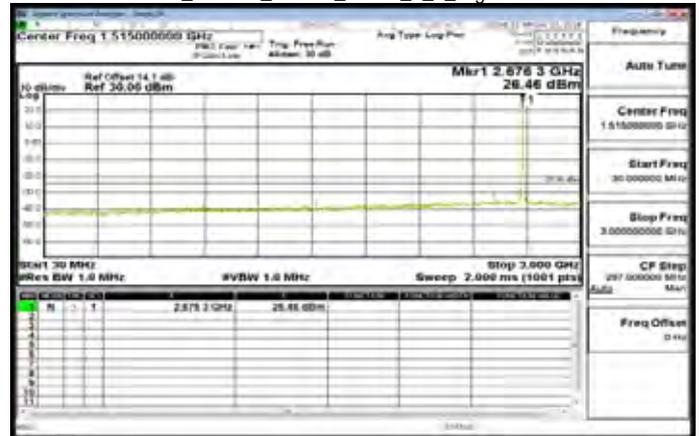
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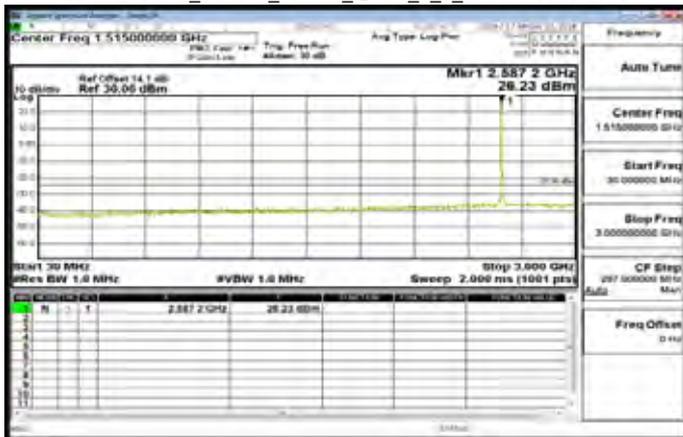
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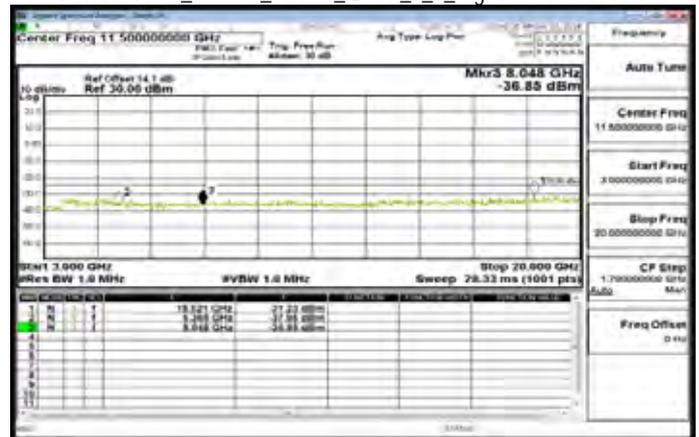
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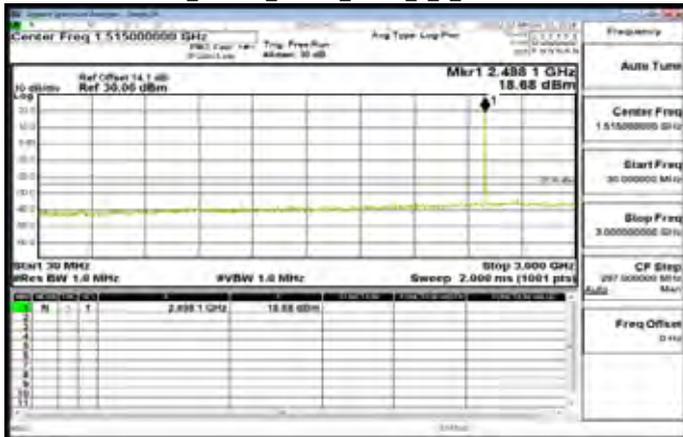
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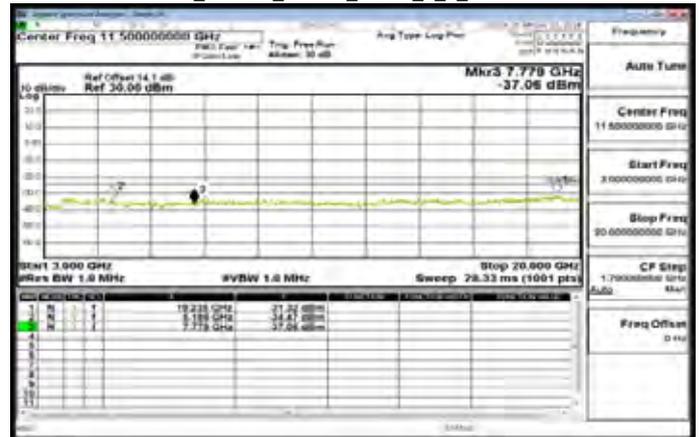
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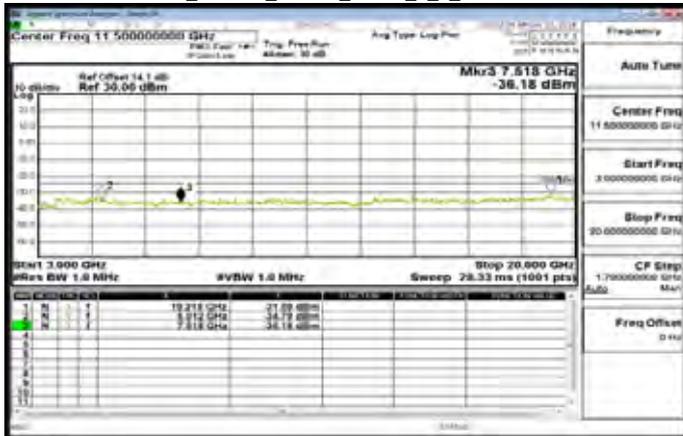
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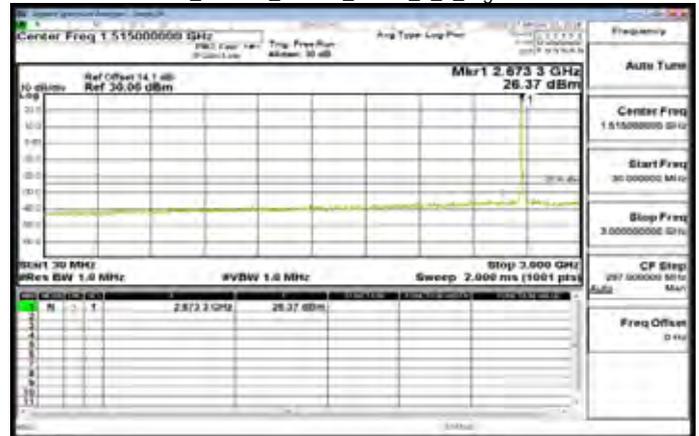
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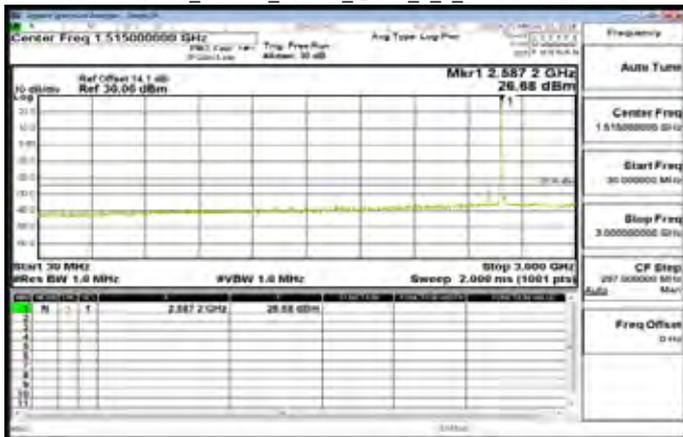
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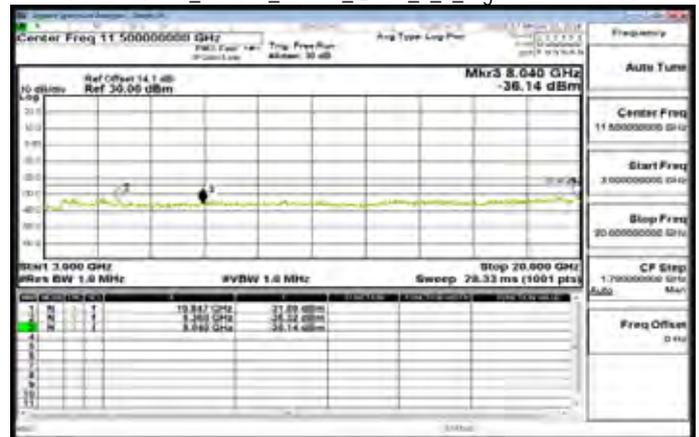
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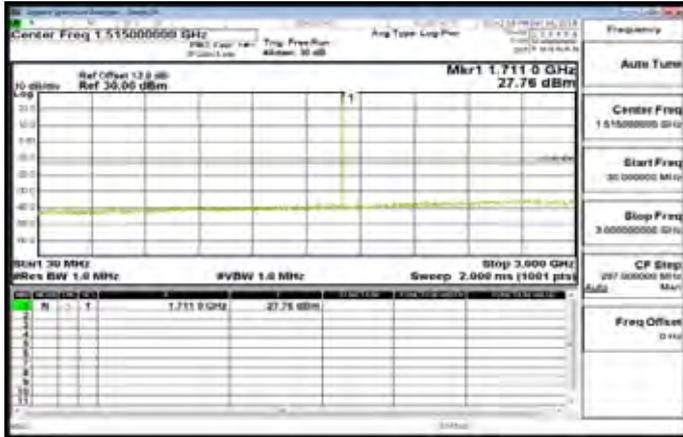
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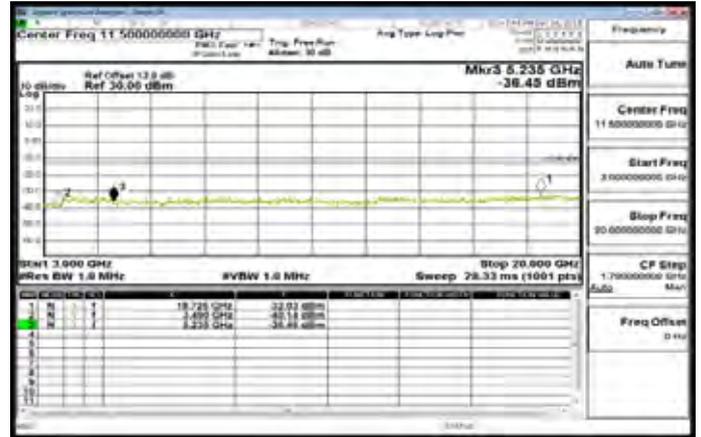
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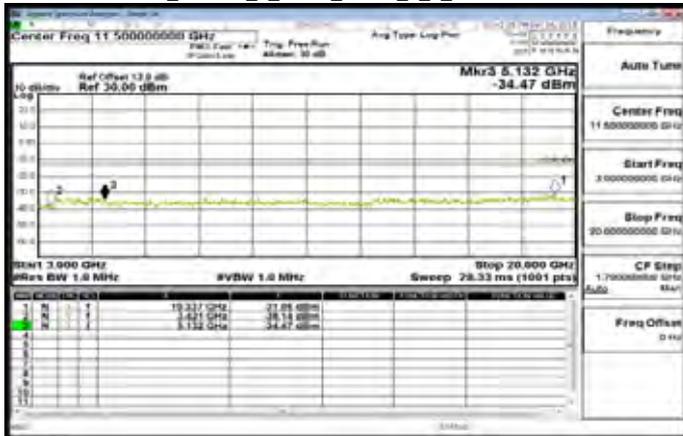
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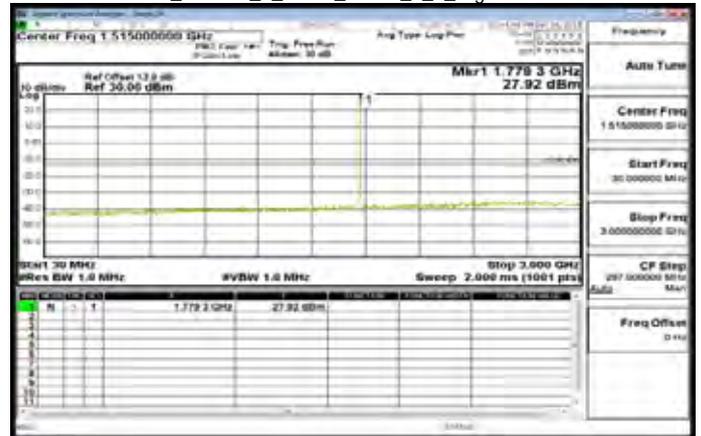
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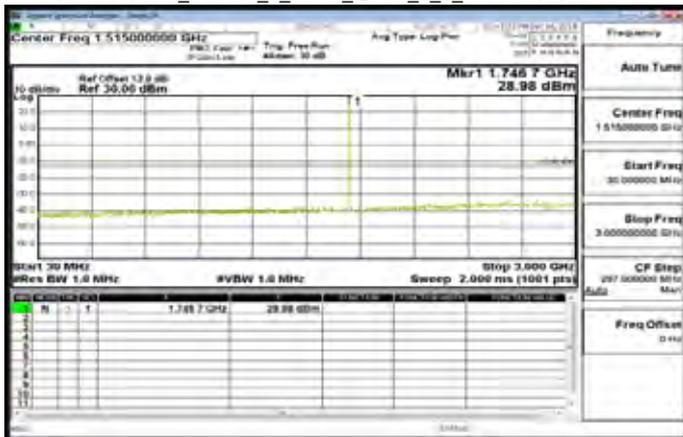
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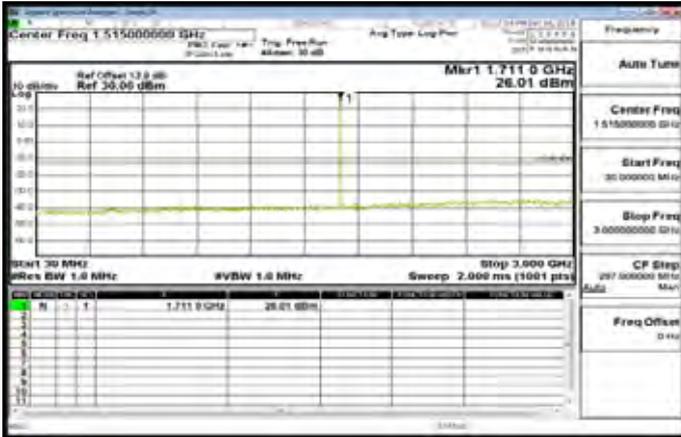
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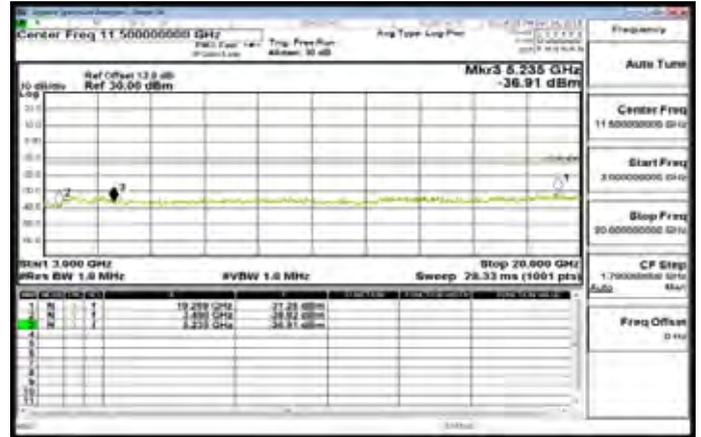
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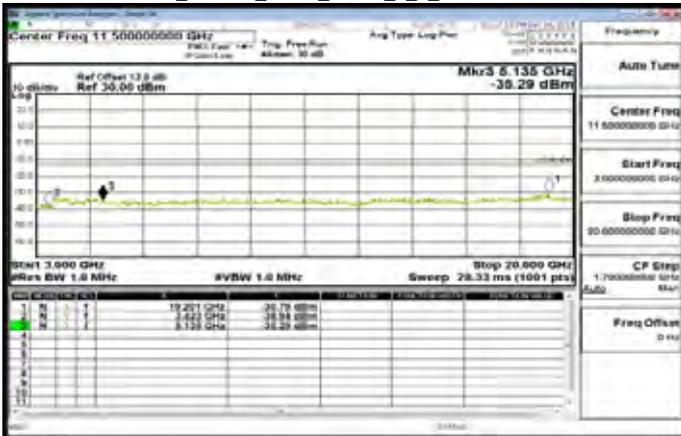
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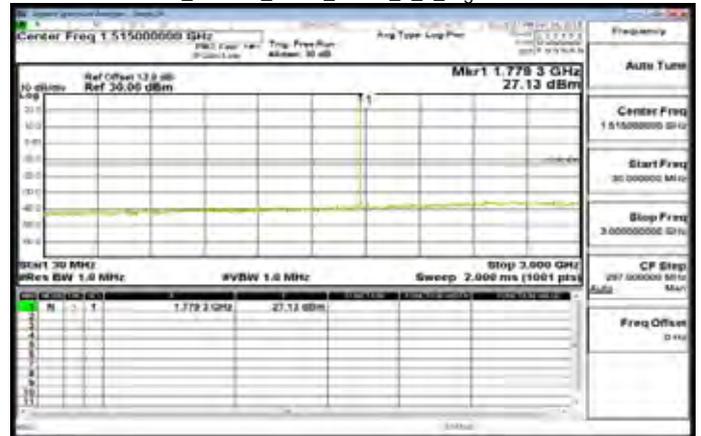
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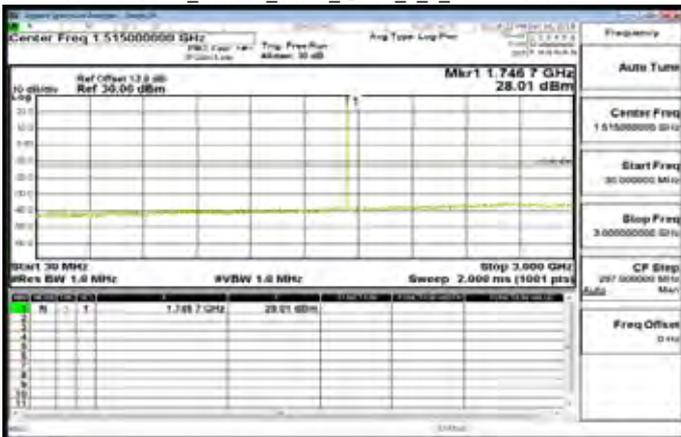
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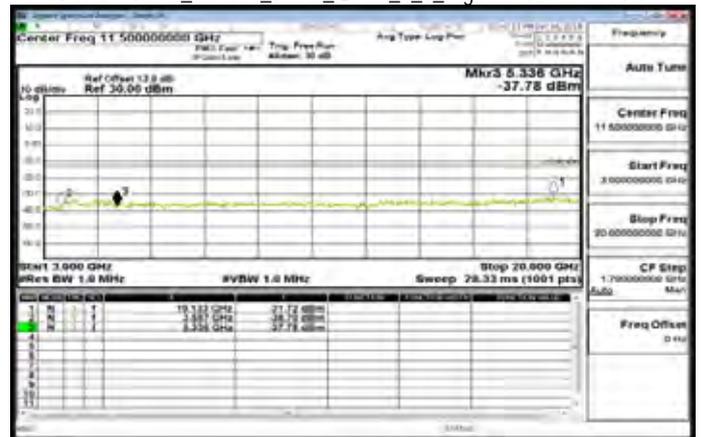
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3GHz-10GHz\_Band66\_3MHz\_QPSK\_1\_0\_HighCH132657-1778.5



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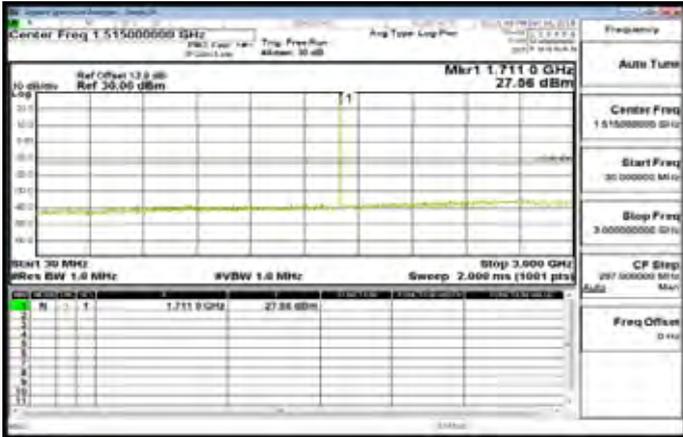
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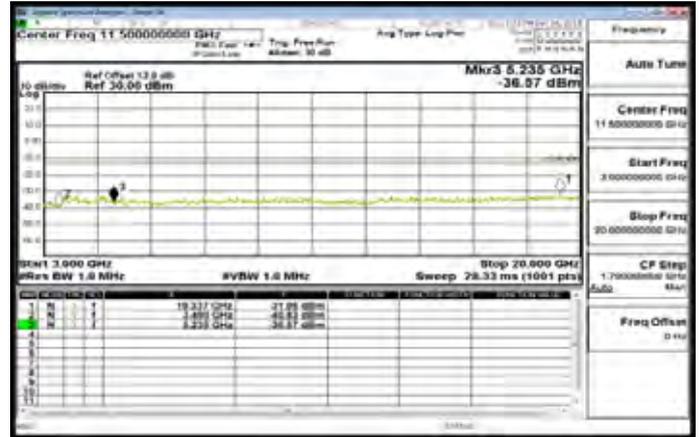
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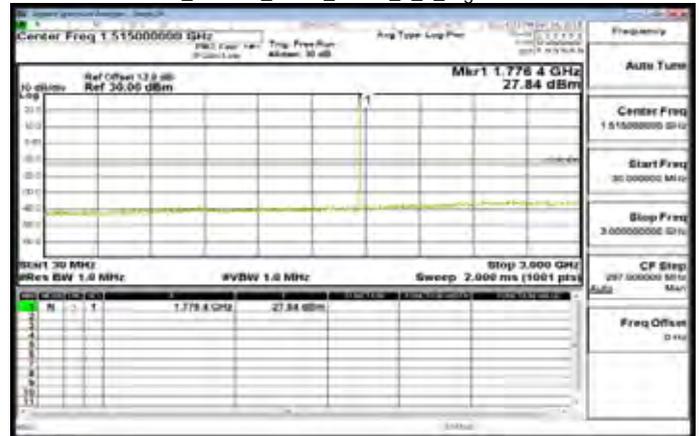
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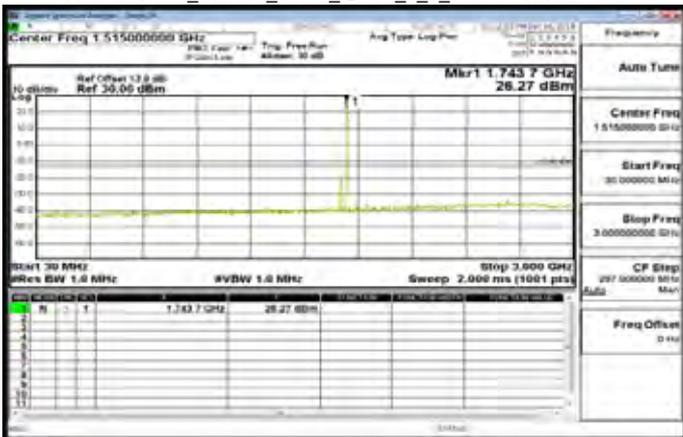
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30MHz-3GHz\_Band66\_5MHz\_QPSK\_1\_0\_MidCH132322-1745



3GHz-10GHz\_Band66\_5MHz\_QPSK\_1\_0\_HighCH132647-1777.5



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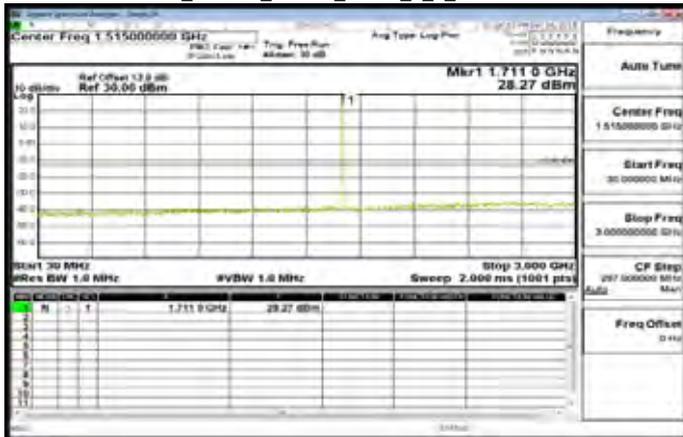
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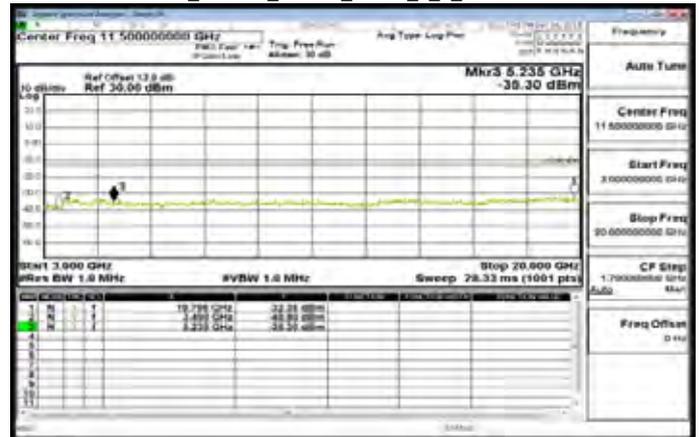
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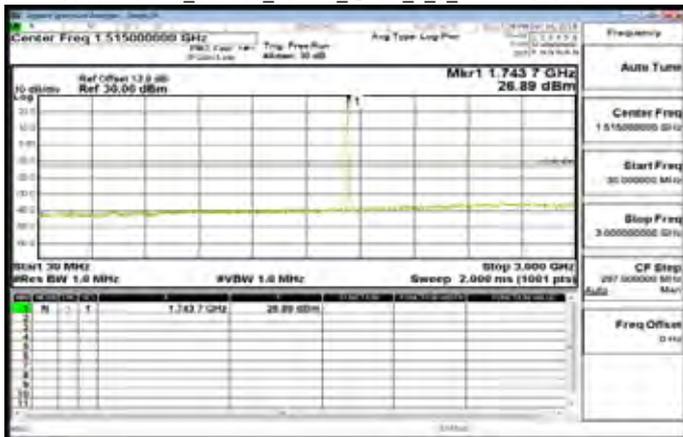
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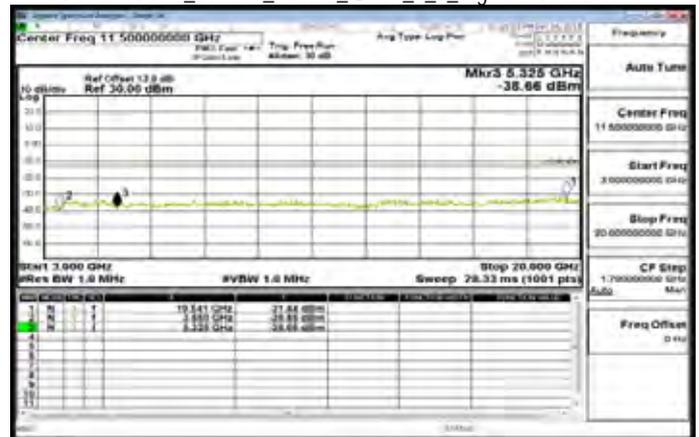
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30MHz-3GHz\_Band66\_10MHz\_QPSK\_1\_0\_MidCH132322-1745



3GHz-10GHz\_Band66\_10MHz\_QPSK\_1\_0\_HighCH132622-1775



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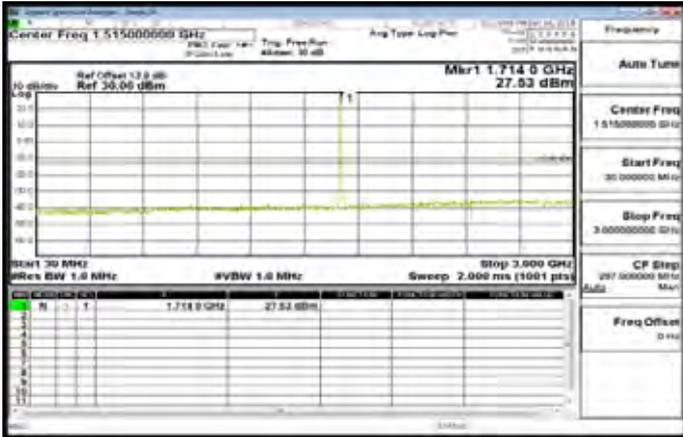
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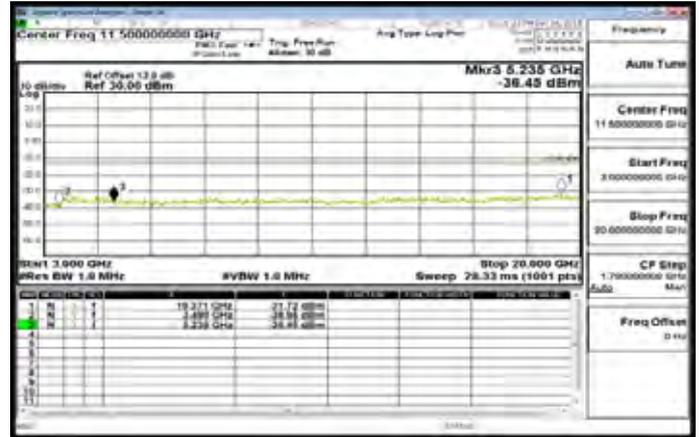
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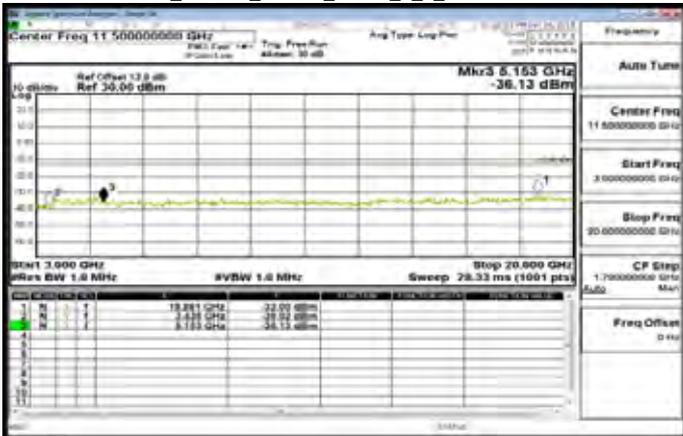
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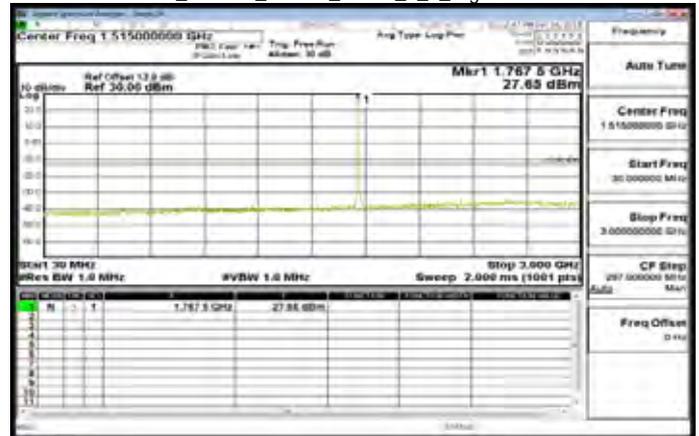
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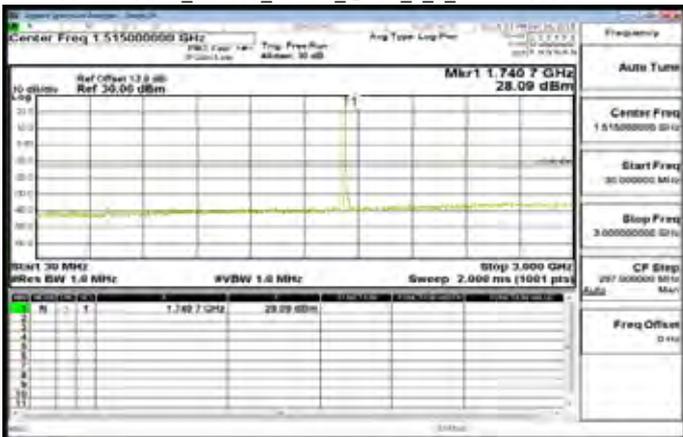
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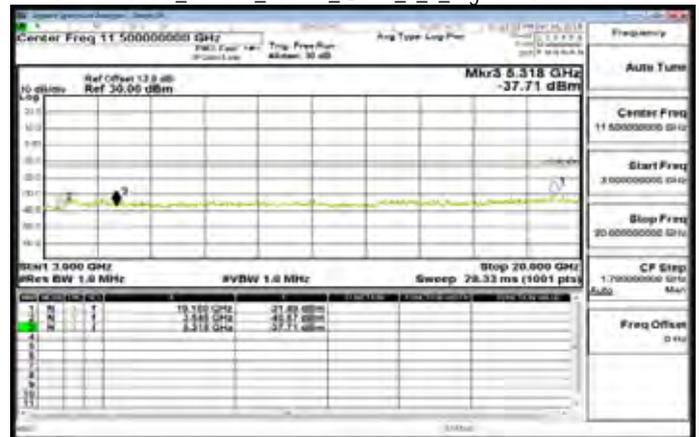
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30MHz-3GHz\_Band66\_15MHz\_QPSK\_1\_0\_MidCH132322-1745



3GHz-10GHz\_Band66\_15MHz\_QPSK\_1\_0\_HighCH132597-1772.5



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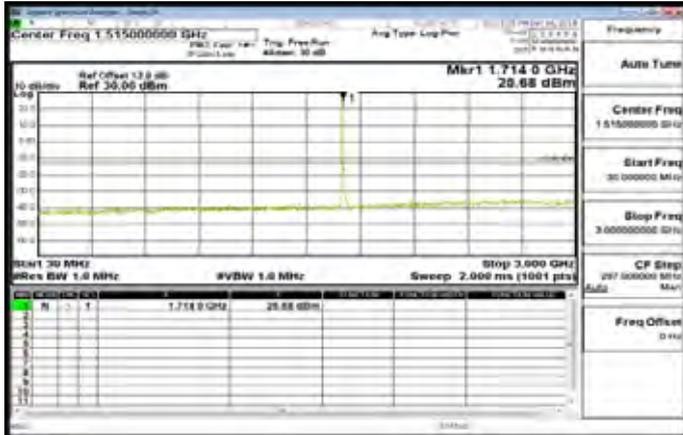
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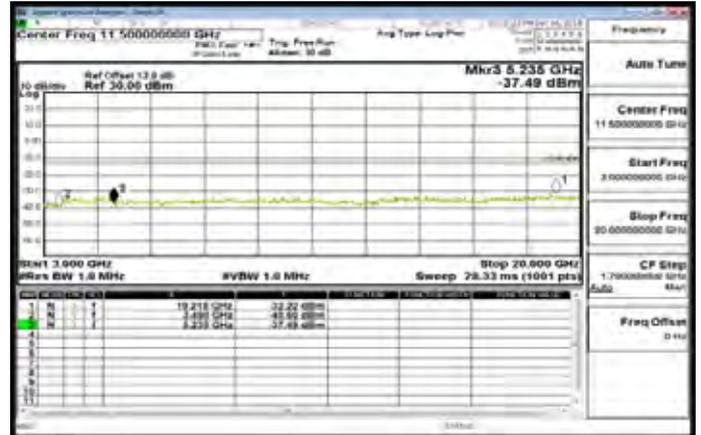
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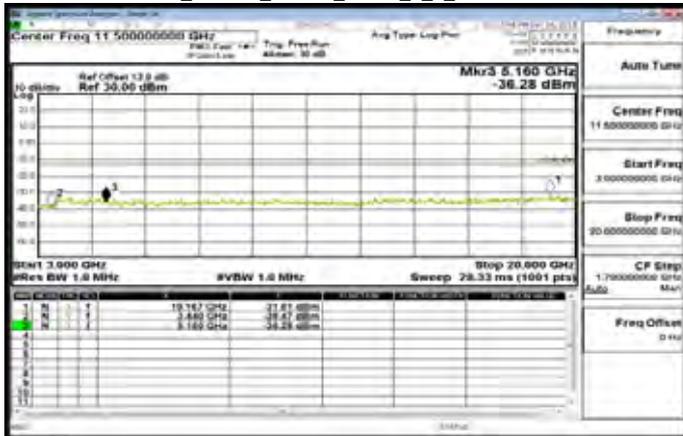
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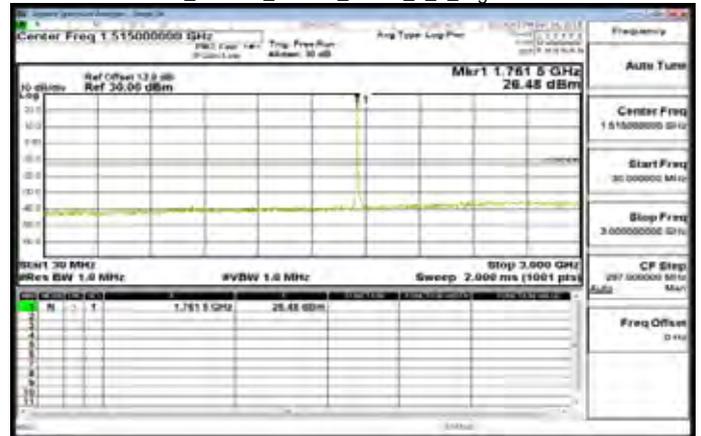
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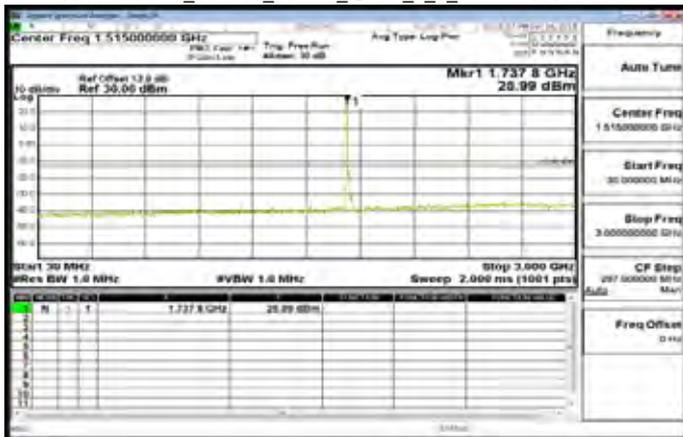
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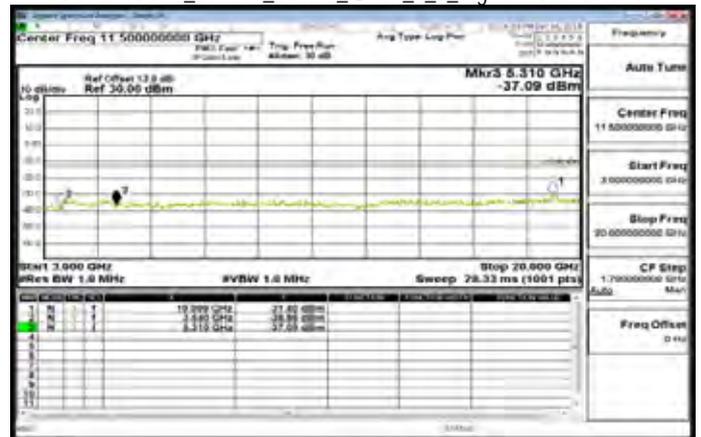
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30MHz-3GHz\_Band66\_20MHz\_QPSK\_1\_0\_MidCH132322-1745



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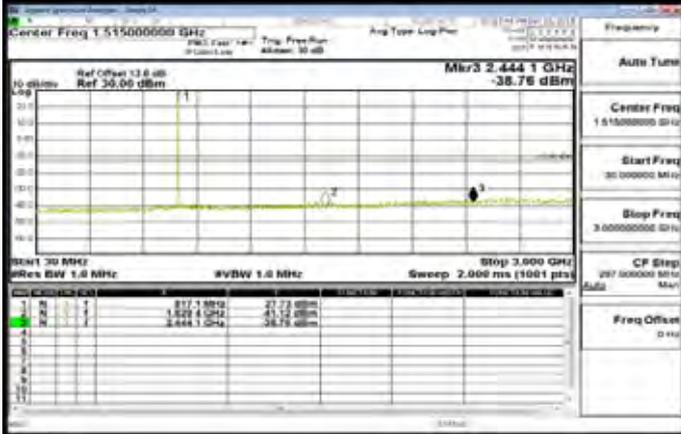
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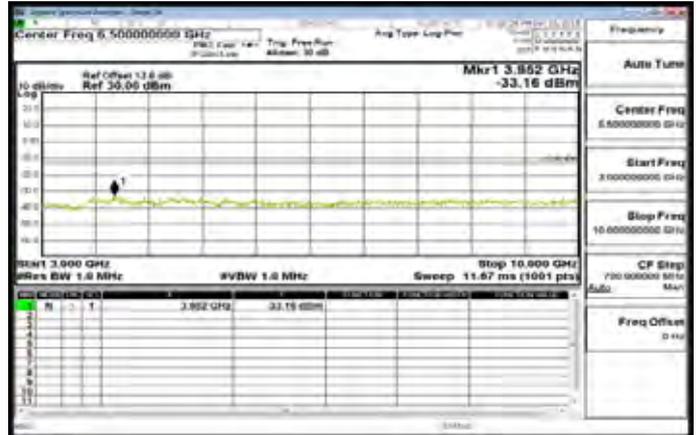
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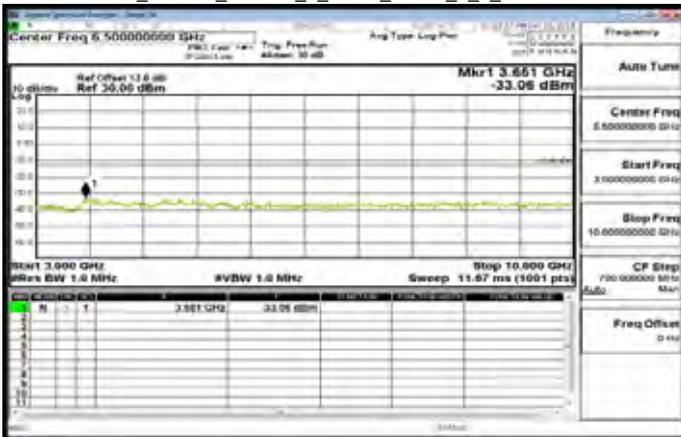
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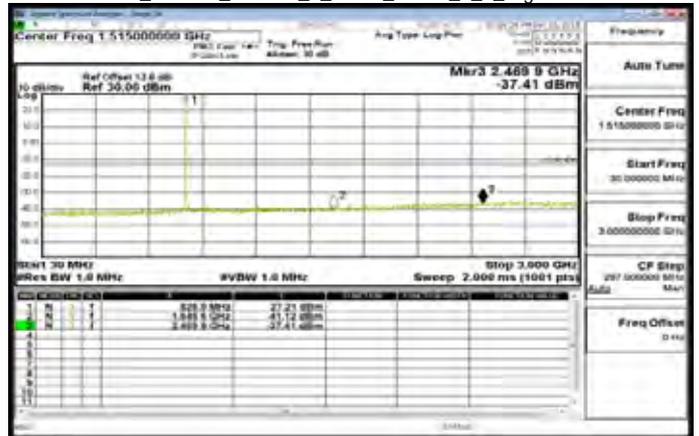
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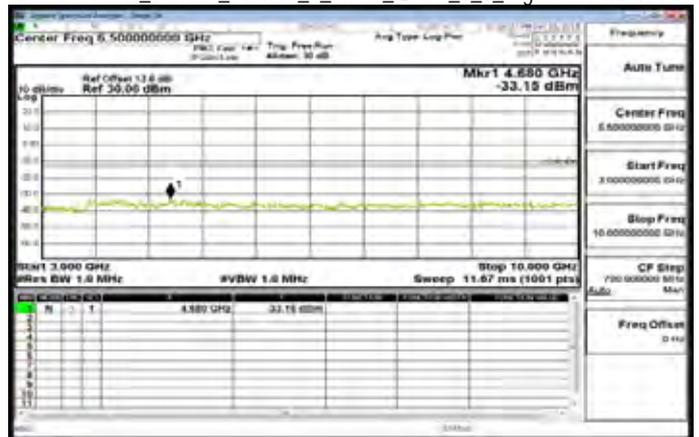
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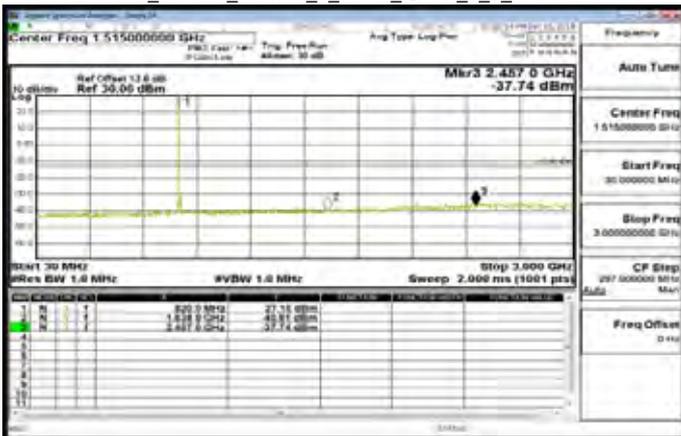
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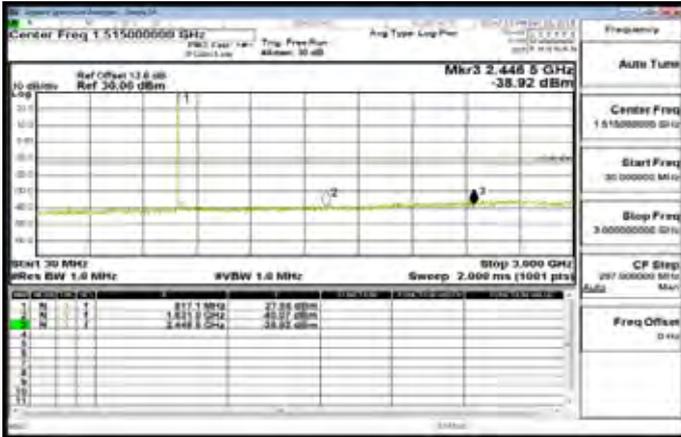
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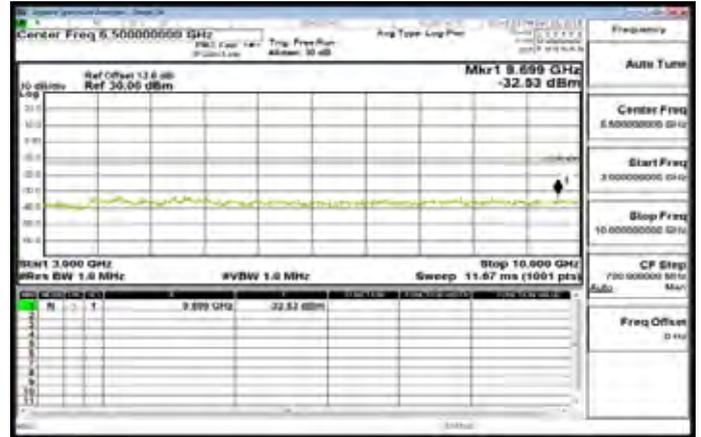
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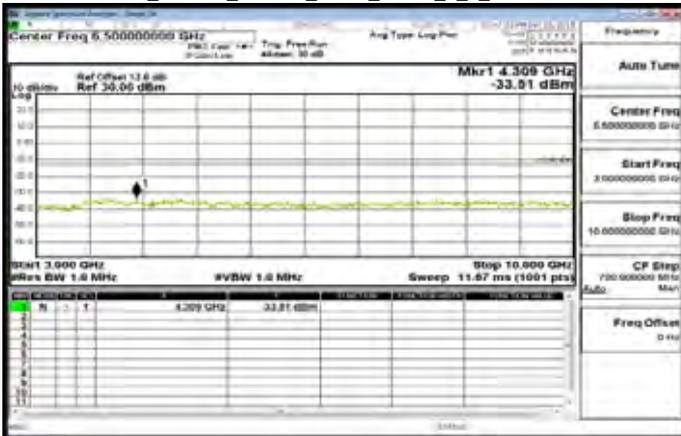
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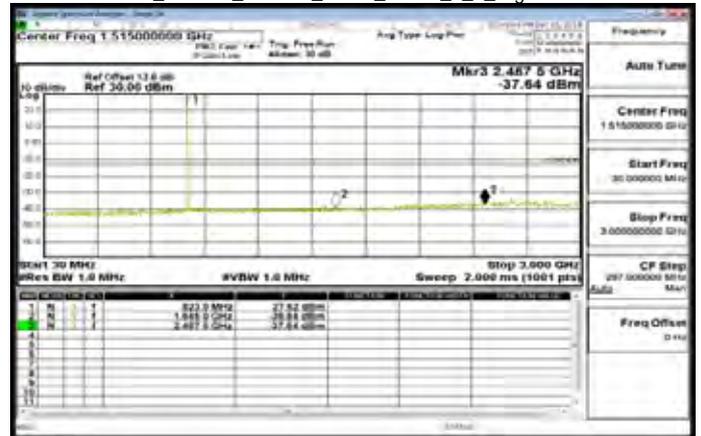
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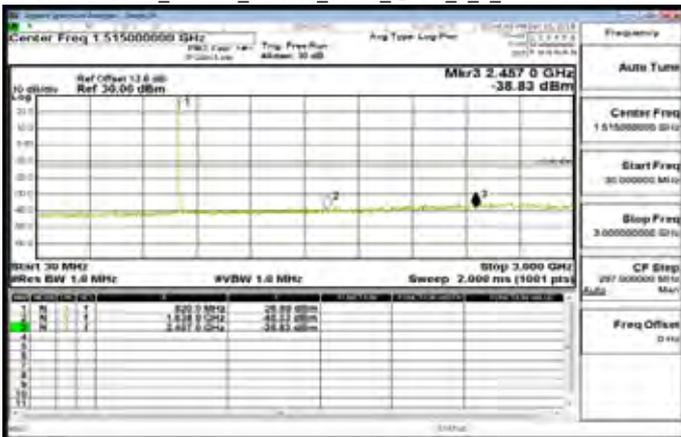
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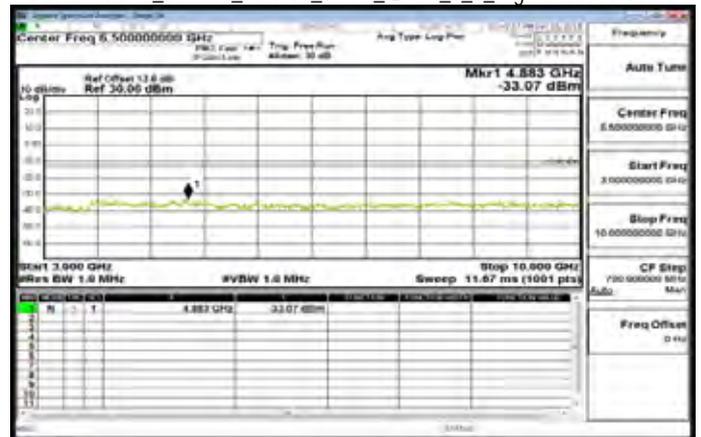
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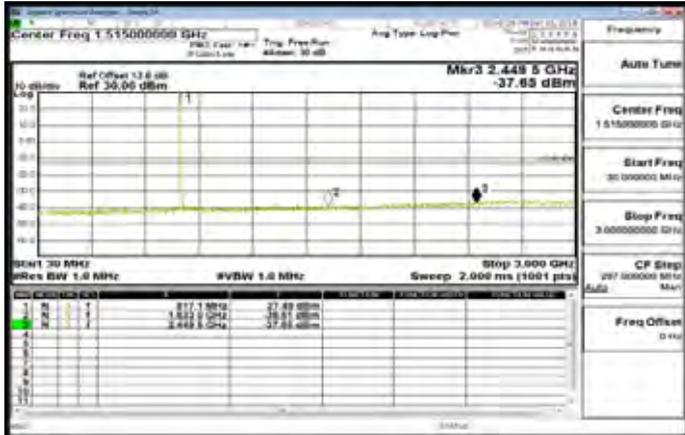
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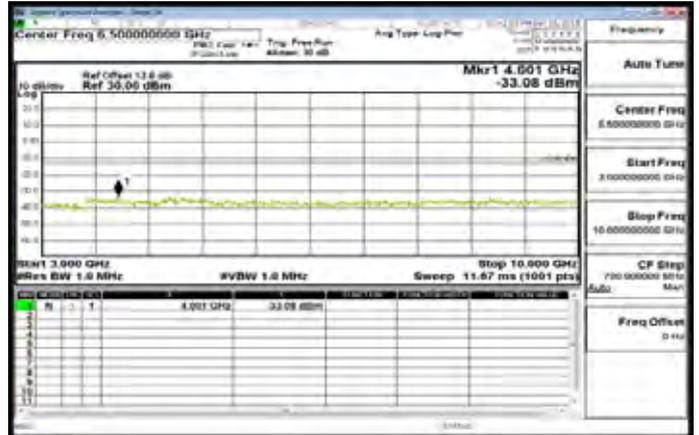
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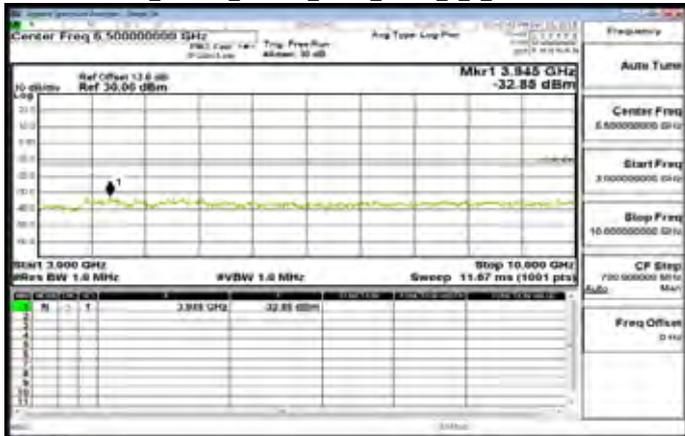
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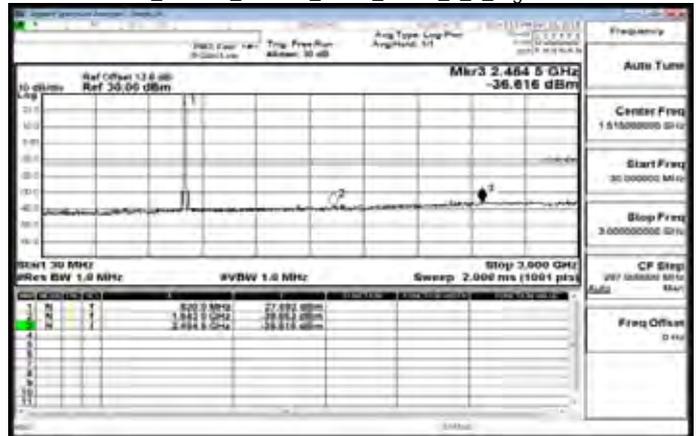
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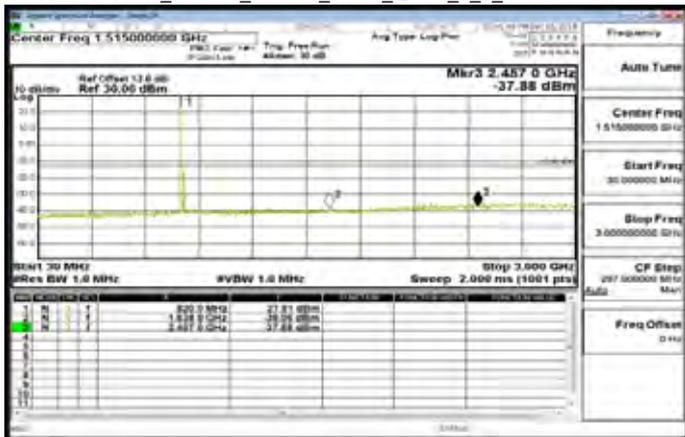
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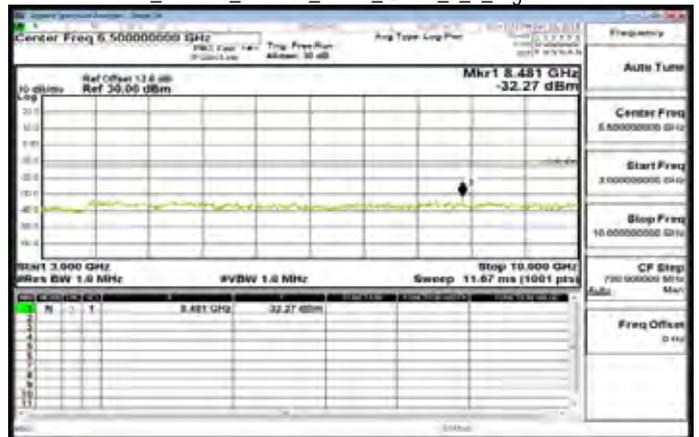
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30MHz-3GHz\_Band26\_Part90s\_5MHz\_QPSK\_1\_0\_MidCH26740-819



3GHz-10GHz\_Band26\_Part90s\_5MHz\_QPSK\_1\_0\_HighCH26765-821.5



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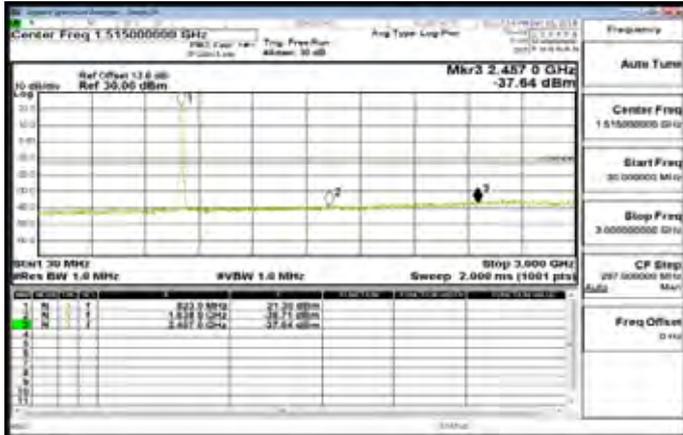
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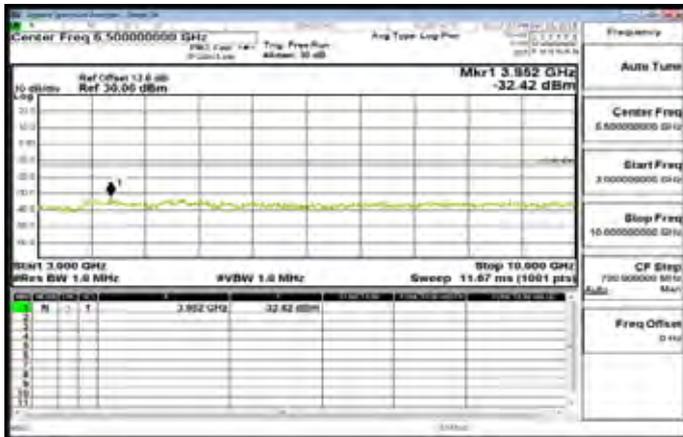
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3GHz-10GHz\_Band26\_Part90s\_10MHz\_QPSK\_1\_0\_MidCH26740-819



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## 9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 9.3 Standard Applicable

According to FCC §2.1053,

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

§27.53 (c)

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

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

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

FCC §27.53(c) (5) & FCC §27.53(g)

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

FCC §27.53(h) (3)

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

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## FCC §27.53(m) (4) (6)

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

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

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

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)$ <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 1.2 for the permitted frequency ranges for various equipment types.

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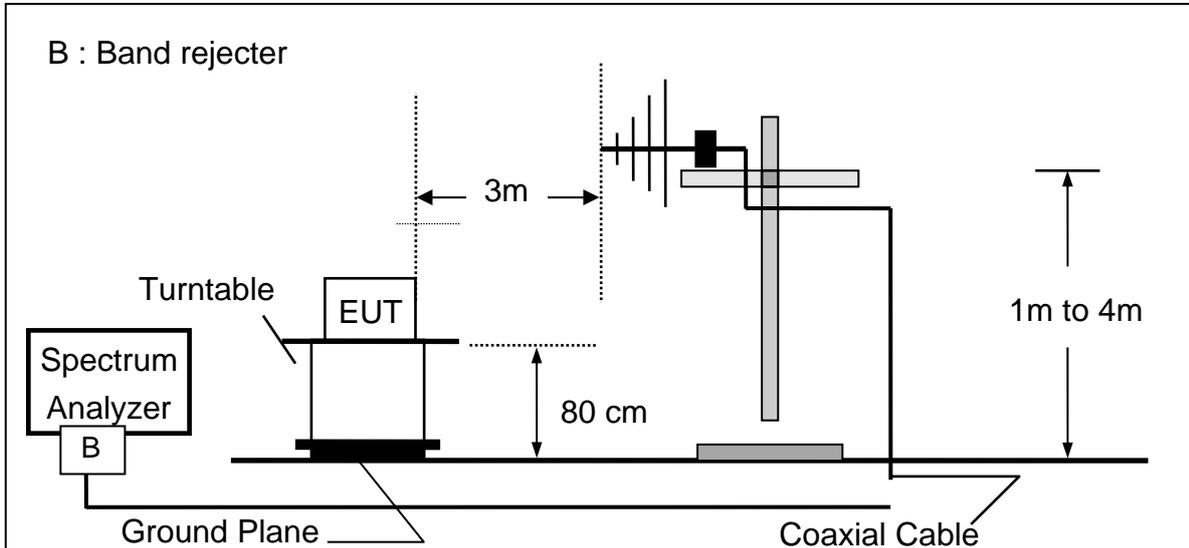
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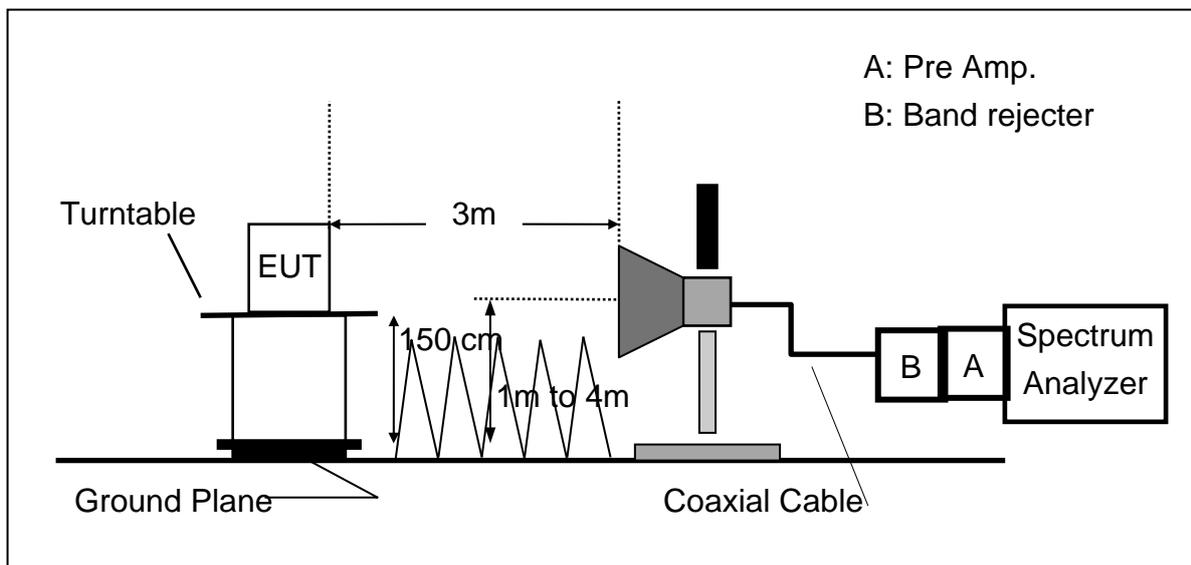
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### 9.4 EUT Setup

#### Radiated Emission Test Set-Up, Frequency Below 1000MHz



#### Radiated Emission Test Set-UP Frequency Over 1 GHz



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## 9.5 Measurement Procedure:

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

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

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

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

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

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## 9.6 Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35243	2018/10/30	2019/10/29
Horn Antenna	Schwarzbeck	BBHA9120D	1341	2018/06/07	2019/06/06
Horn Antenna	SCHWAZBECK	BBHA9170	185	2018/08/02	2019/08/01
EMI Test Receiver	R&S	ESU 40	100363	2018/04/11	2019/04/10
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
Radio Communication Analyer	Anritsu	MT8821C	6261786084	2018/01/03	2019/01/02
Pre-Amplifier	EMC Instruments	EMC330	980096	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC0011830	980199	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2018/10/02	2019/10/01
Notch Filter	Woken	EWT-54-0037	RF105	2017/12/26	2018/12/25
Notch Filter	Woken	EWT-54-0038	RF55	2017/12/26	2018/12/25
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-9100	150704	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	2017/12/26	2018/12/25

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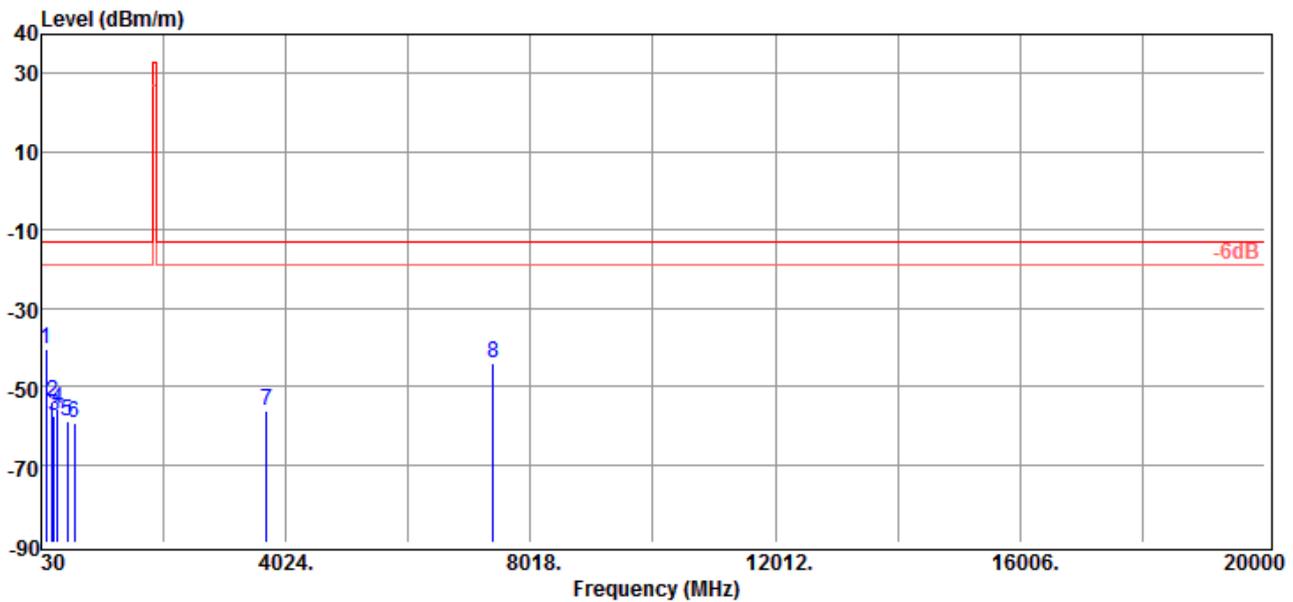
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### 9.7 Measurement Result:

#### Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Operation Mode	:WCDMA B2	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1852.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.54	-40.34	-39.33	-0.12	-0.89	-13.00	-27.34
206.54	-54.04	-58.50	5.73	-1.27	-13.00	-41.04
236.61	-57.71	-61.65	5.33	-1.39	-13.00	-44.71
298.69	-55.76	-59.97	5.83	-1.62	-13.00	-42.76
454.86	-58.90	-62.88	6.09	-2.11	-13.00	-45.90
575.14	-59.26	-63.48	6.45	-2.23	-13.00	-46.26
3704.80	-56.49	-62.18	12.43	-6.74	-13.00	-43.49
7409.60	-44.09	-48.23	11.42	-7.28	-13.00	-31.09

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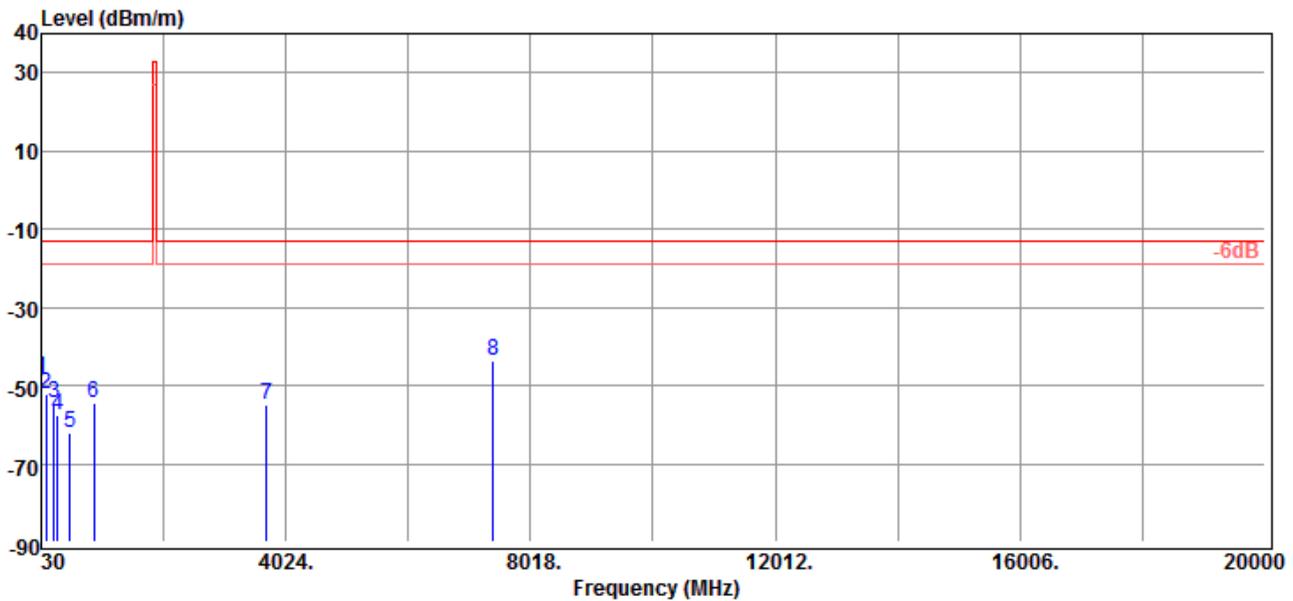
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Operation Mode	:WCDMA B2	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1852.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-48.04	-30.11	-17.44	-0.49	-13.00	-35.04
116.33	-52.39	-51.87	0.39	-0.91	-13.00	-39.39
239.52	-54.37	-58.27	5.30	-1.40	-13.00	-41.37
297.72	-57.65	-61.86	5.82	-1.61	-13.00	-44.65
497.54	-62.05	-65.74	6.28	-2.59	-13.00	-49.05
896.21	-54.53	-59.68	7.58	-2.43	-13.00	-41.53
3704.80	-55.07	-60.76	12.43	-6.74	-13.00	-42.07
7409.60	-43.70	-47.84	11.42	-7.28	-13.00	-30.70

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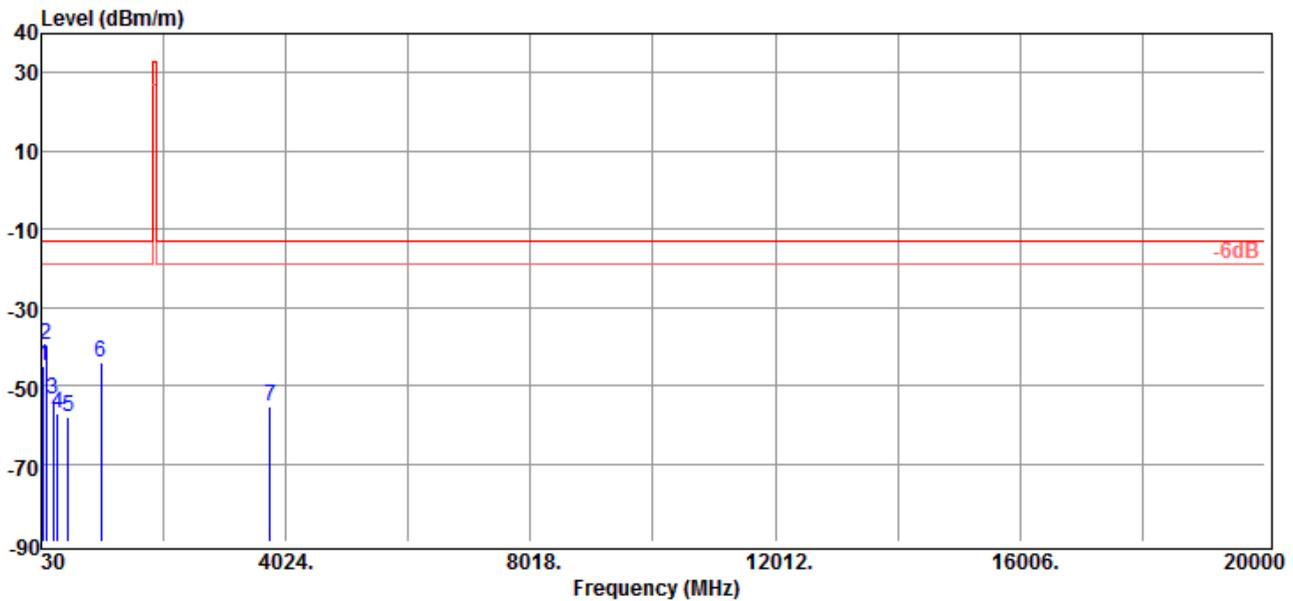
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Operation Mode	:WCDMA B2	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1880 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
70.74	-44.89	-44.68	0.52	-0.73	-13.00	-31.89
113.42	-39.52	-38.79	0.17	-0.90	-13.00	-26.52
230.79	-53.64	-57.69	5.41	-1.36	-13.00	-40.64
302.57	-57.31	-61.52	5.85	-1.64	-13.00	-44.31
473.29	-58.01	-61.87	6.18	-2.32	-13.00	-45.01
999.03	-44.07	-48.90	7.81	-2.98	-13.00	-31.07
3760.00	-55.47	-61.26	12.46	-6.67	-13.00	-42.47

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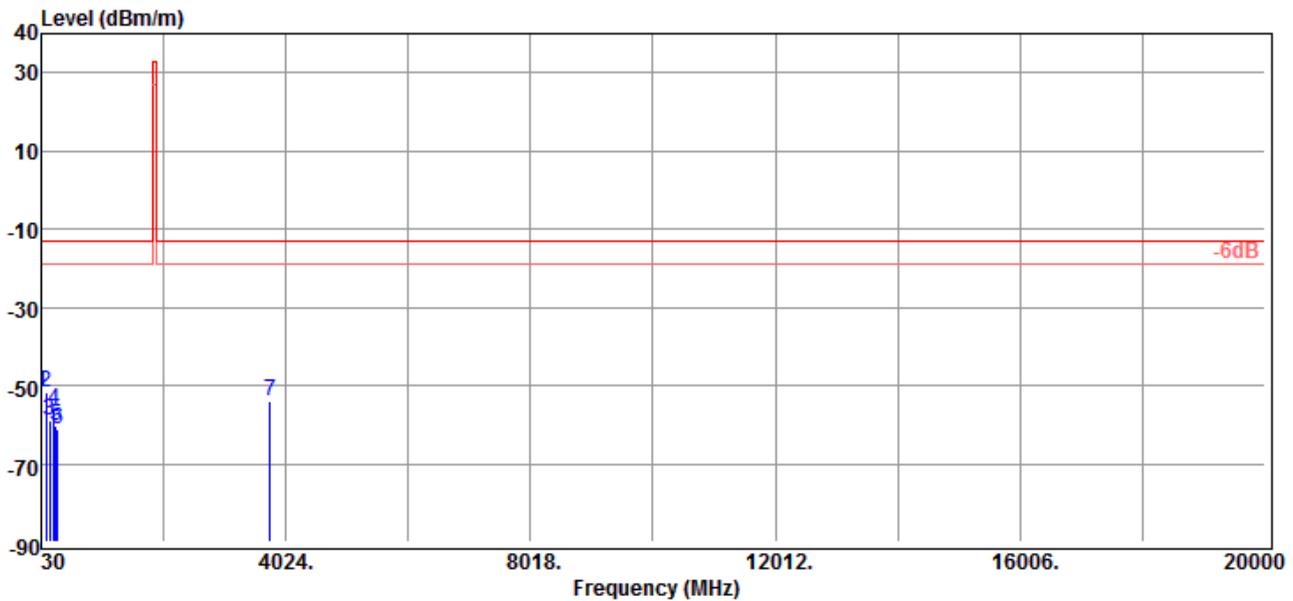
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Operation Mode	:WCDMA B2	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1880 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
38.73	-51.81	-38.37	-12.86	-0.58	-13.00	-38.81
115.36	-51.86	-51.27	0.32	-0.91	-13.00	-38.86
164.83	-59.05	-61.59	3.61	-1.07	-13.00	-46.05
239.52	-56.17	-60.07	5.30	-1.40	-13.00	-43.17
269.59	-60.47	-64.41	5.45	-1.51	-13.00	-47.47
304.51	-61.25	-65.44	5.84	-1.65	-13.00	-48.25
3760.00	-54.03	-59.82	12.46	-6.67	-13.00	-41.03

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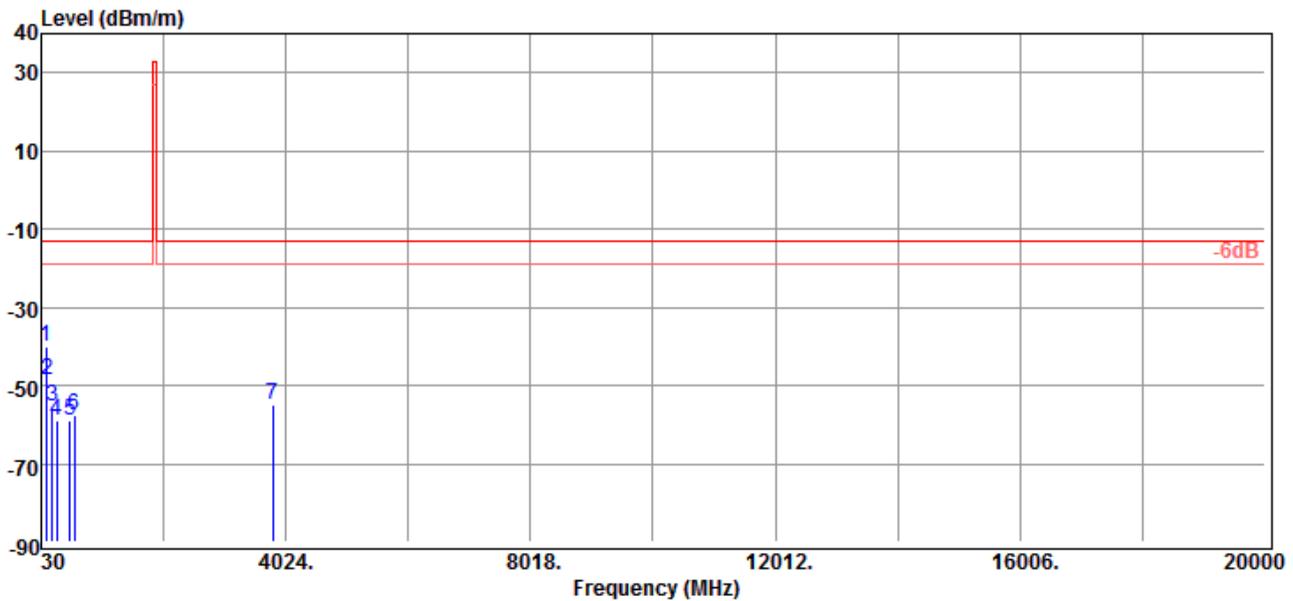
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Operation Mode	:WCDMA B2	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1907.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-40.04	-39.17	0.03	-0.90	-13.00	-27.04
124.09	-48.61	-48.61	0.93	-0.93	-13.00	-35.61
215.27	-55.47	-59.78	5.61	-1.30	-13.00	-42.47
288.02	-59.00	-63.12	5.70	-1.58	-13.00	-46.00
498.51	-59.01	-62.69	6.28	-2.60	-13.00	-46.01
577.08	-57.49	-61.73	6.47	-2.23	-13.00	-44.49
3815.20	-55.06	-60.96	12.49	-6.59	-13.00	-42.06

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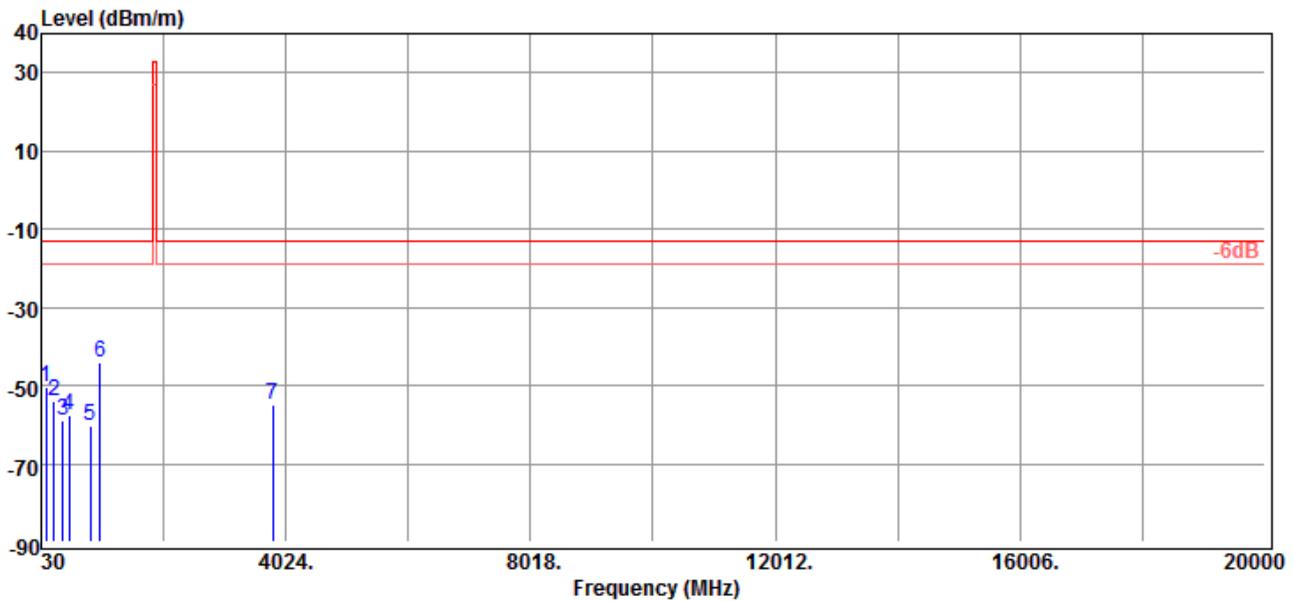
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Operation Mode	:WCDMA B2	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1907.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.39	-50.58	-49.92	0.24	-0.90	-13.00	-37.58
236.61	-53.84	-57.78	5.33	-1.39	-13.00	-40.84
382.11	-58.90	-62.52	5.63	-2.01	-13.00	-45.90
490.75	-57.60	-61.33	6.25	-2.52	-13.00	-44.60
833.16	-60.42	-65.55	7.52	-2.39	-13.00	-47.42
997.09	-44.29	-49.12	7.80	-2.97	-13.00	-31.29
3815.20	-54.73	-60.63	12.49	-6.59	-13.00	-41.73

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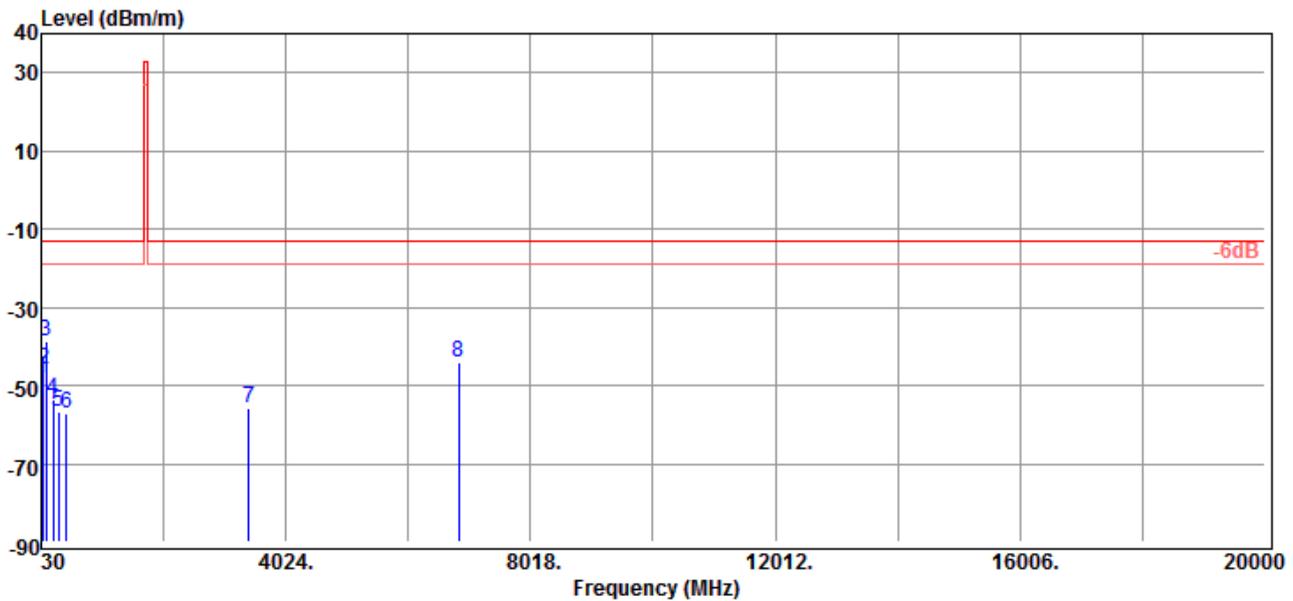
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### Radiated Spurious Emission Measurement Result: WCDMA Band 4 Mode

Operation Mode	:WCDMA B4	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1712.4 MHz	Engineer	:Enzo



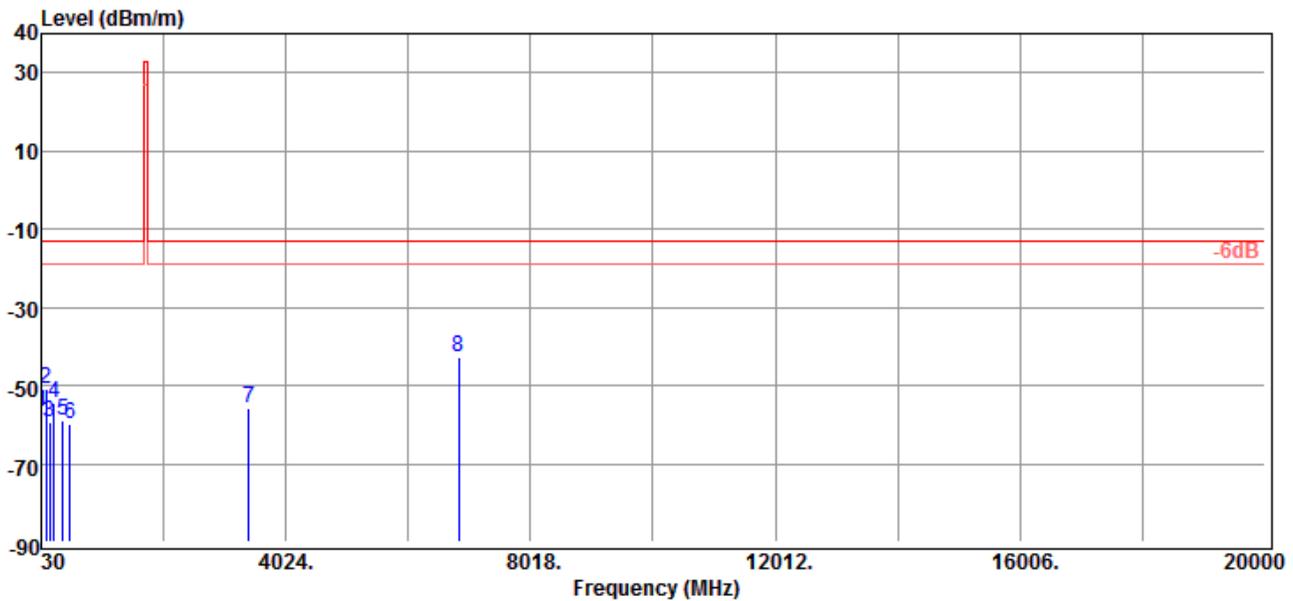
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-48.20	-34.07	-13.57	-0.56	-13.00	-35.20
62.98	-46.07	-44.99	-0.41	-0.67	-13.00	-33.07
112.45	-38.72	-37.92	0.10	-0.90	-13.00	-25.72
230.79	-53.48	-57.53	5.41	-1.36	-13.00	-40.48
306.45	-56.79	-60.97	5.84	-1.66	-13.00	-43.79
444.19	-57.20	-61.15	6.01	-2.06	-13.00	-44.20
3424.80	-55.61	-61.13	12.16	-6.64	-13.00	-42.61
6849.60	-44.21	-49.01	12.09	-7.29	-13.00	-31.21

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Operation Mode	:WCDMA B4	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1712.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-56.59	-38.66	-17.44	-0.49	-13.00	-43.59
113.42	-50.75	-50.02	0.17	-0.90	-13.00	-37.75
163.86	-59.28	-61.75	3.54	-1.07	-13.00	-46.28
235.64	-54.24	-58.20	5.34	-1.38	-13.00	-41.24
381.14	-59.08	-62.71	5.64	-2.01	-13.00	-46.08
497.54	-60.07	-63.76	6.28	-2.59	-13.00	-47.07
3424.80	-55.97	-61.49	12.16	-6.64	-13.00	-42.97
6849.60	-42.70	-47.50	12.09	-7.29	-13.00	-29.70

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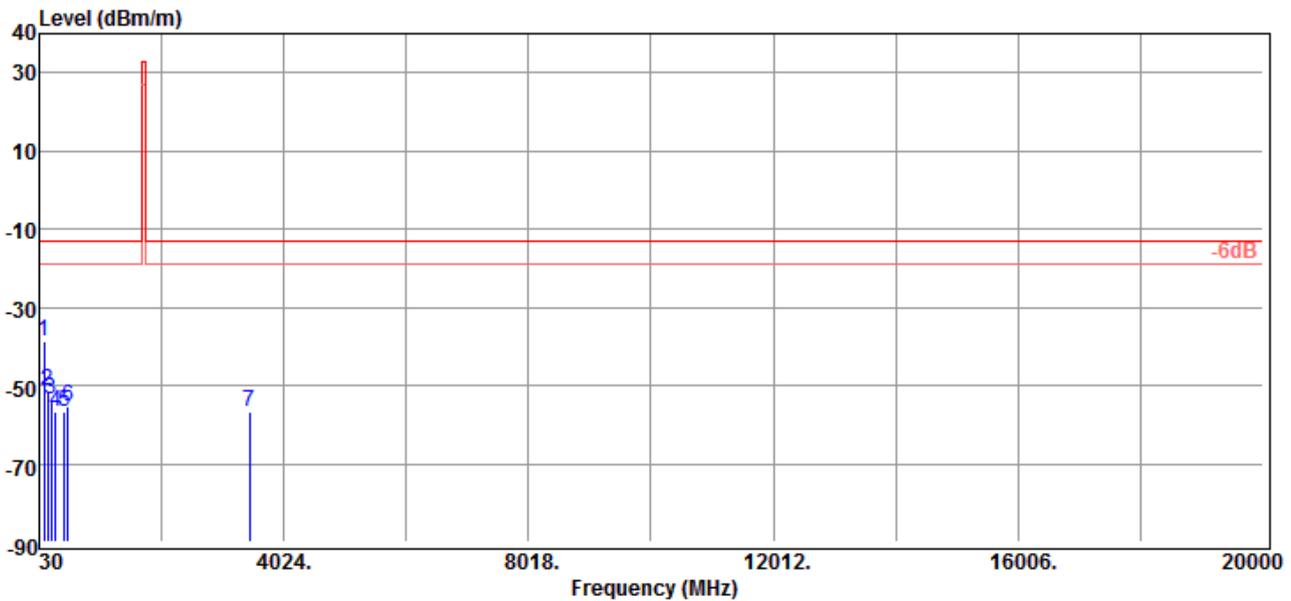
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Operation Mode	:WCDMA B4	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1732.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-38.77	-37.90	0.03	-0.90	-13.00	-25.77
160.95	-51.29	-53.58	3.34	-1.05	-13.00	-38.29
227.88	-53.65	-57.74	5.44	-1.35	-13.00	-40.65
303.54	-56.70	-60.91	5.85	-1.64	-13.00	-43.70
449.04	-56.75	-60.75	6.06	-2.06	-13.00	-43.75
498.51	-55.43	-59.11	6.28	-2.60	-13.00	-42.43
3464.80	-56.67	-62.06	12.23	-6.84	-13.00	-43.67

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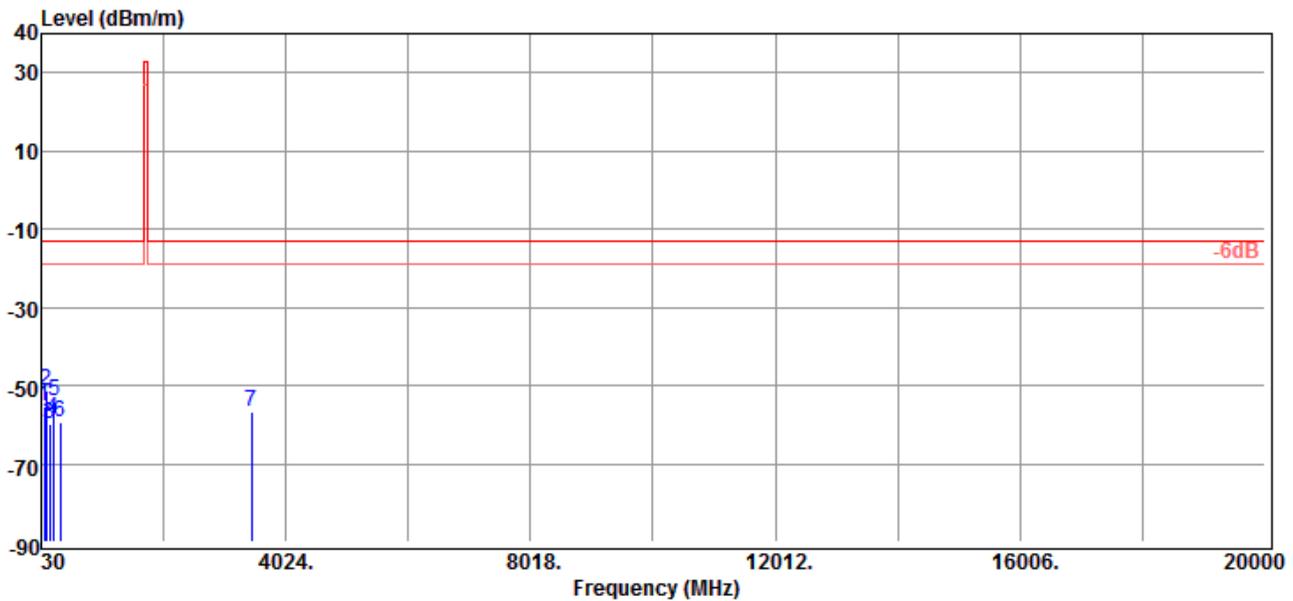
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Operation Mode	:WCDMA B4	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1732.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
75.59	-55.46	-55.30	0.60	-0.76	-13.00	-42.46
113.42	-51.10	-50.37	0.17	-0.90	-13.00	-38.10
166.77	-59.87	-62.54	3.75	-1.08	-13.00	-46.87
218.18	-58.67	-62.93	5.57	-1.31	-13.00	-45.67
234.67	-53.94	-57.92	5.36	-1.38	-13.00	-40.94
333.61	-59.22	-63.19	5.81	-1.84	-13.00	-46.22
3464.80	-56.84	-62.23	12.23	-6.84	-13.00	-43.84

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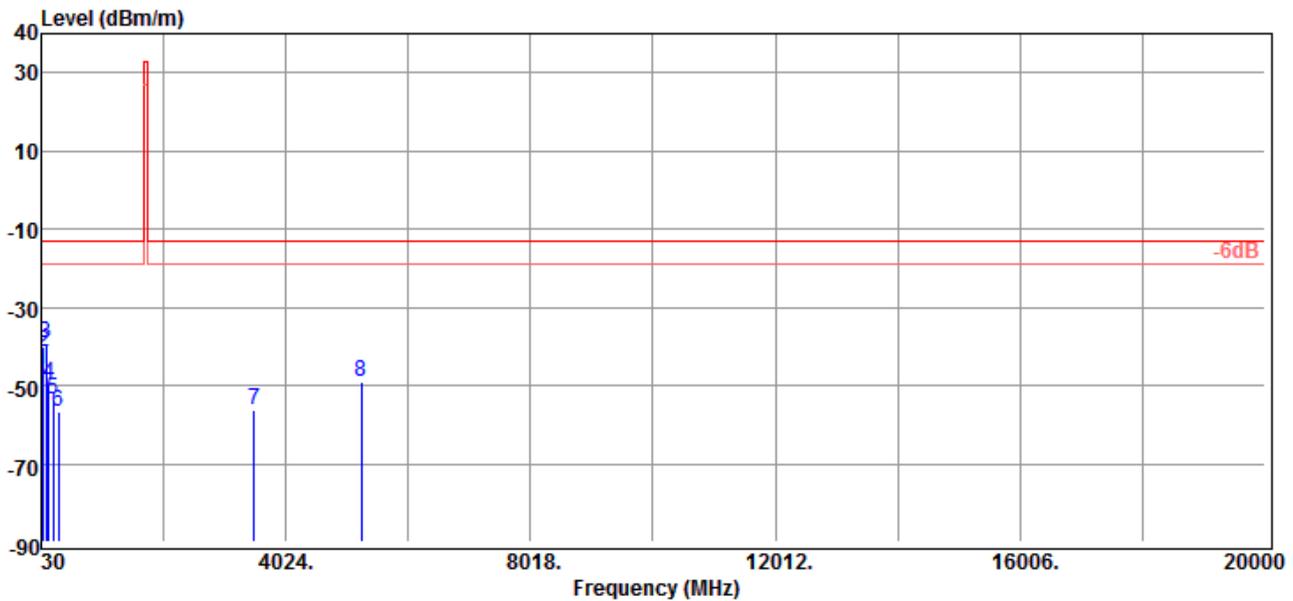
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Operation Mode	:WCDMA B4	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1752.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-46.07	-26.46	-19.15	-0.46	-13.00	-33.07
69.77	-41.46	-41.21	0.48	-0.73	-13.00	-28.46
111.48	-39.06	-38.19	0.03	-0.90	-13.00	-26.06
149.31	-49.35	-50.84	2.49	-1.00	-13.00	-36.35
230.79	-53.51	-57.56	5.41	-1.36	-13.00	-40.51
307.42	-56.58	-60.75	5.84	-1.67	-13.00	-43.58
3505.20	-56.12	-61.42	12.30	-7.00	-13.00	-43.12
5257.80	-49.25	-55.44	12.76	-6.57	-13.00	-36.25

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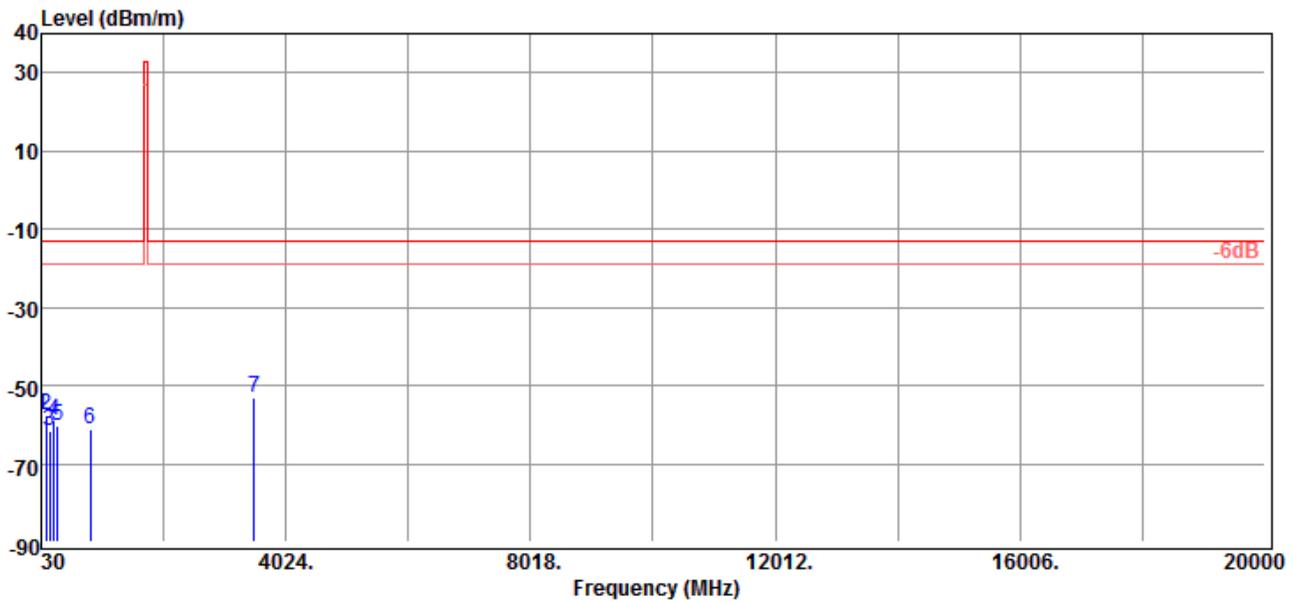
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Operation Mode	:WCDMA B4	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1752.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.56	-37.07	-20.05	-0.44	-13.00	-44.56
112.45	-57.52	-56.72	0.10	-0.90	-13.00	-44.52
165.80	-61.88	-64.48	3.68	-1.08	-13.00	-48.88
237.58	-58.83	-62.76	5.32	-1.39	-13.00	-45.83
298.69	-60.27	-64.48	5.83	-1.62	-13.00	-47.27
832.19	-61.26	-66.39	7.52	-2.39	-13.00	-48.26
3505.20	-53.00	-58.30	12.30	-7.00	-13.00	-40.00

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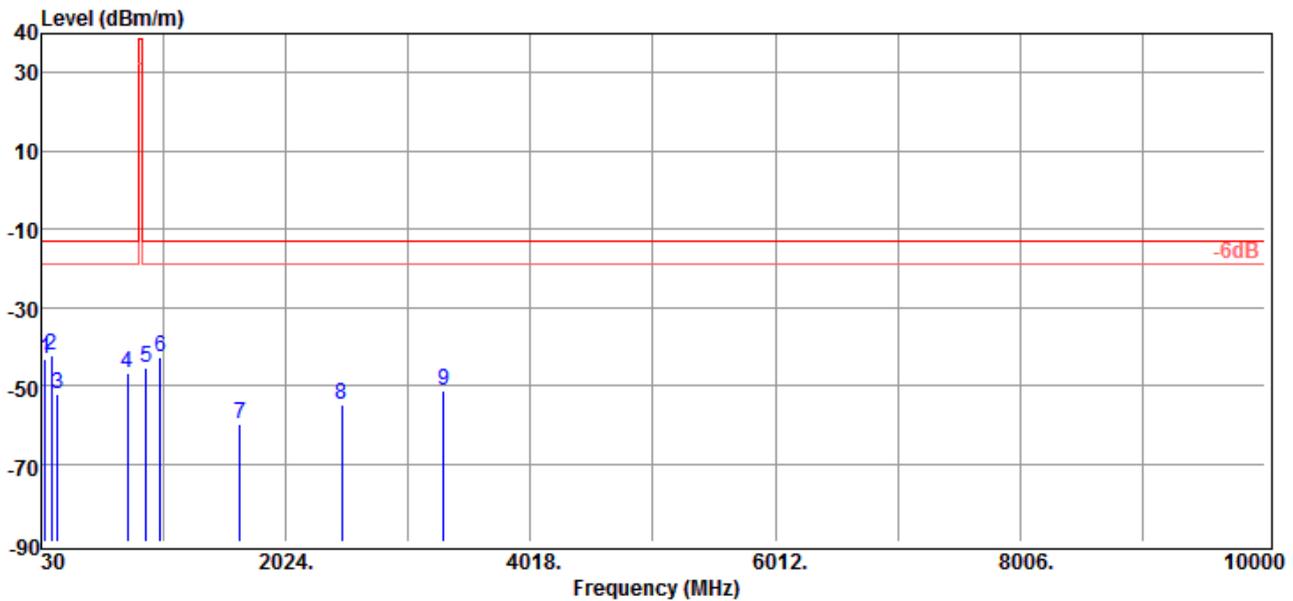
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### Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Operation Mode	:WCDMA B5	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:826.4 MHz	Engineer	:Enzo



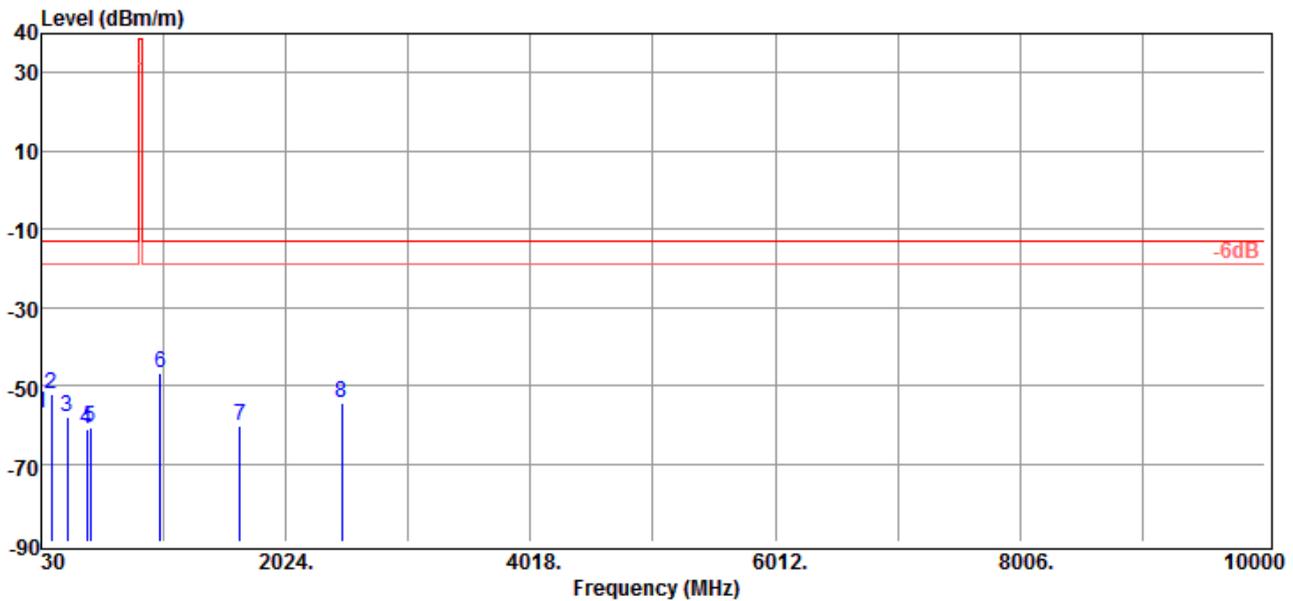
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-43.07	-41.73	-0.68	-0.66	-13.00	-30.07
110.51	-42.43	-41.49	-0.05	-0.89	-13.00	-29.43
165.80	-52.09	-54.69	3.68	-1.08	-13.00	-39.09
734.22	-46.96	-52.21	7.38	-2.13	-13.00	-33.96
881.66	-45.41	-50.56	7.56	-2.41	-13.00	-32.41
997.09	-42.90	-47.73	7.80	-2.97	-13.00	-29.90
1652.80	-60.01	-64.98	8.81	-3.84	-13.00	-47.01
2479.20	-54.89	-61.18	10.68	-4.39	-13.00	-41.89
3305.60	-51.38	-57.25	11.93	-6.06	-13.00	-38.38

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Operation Mode	:WCDMA B5	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:826.4 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.96	-36.47	-20.05	-0.44	-13.00	-43.96
110.51	-52.29	-51.35	-0.05	-0.89	-13.00	-39.29
242.43	-58.01	-61.86	5.26	-1.41	-13.00	-45.01
402.48	-61.08	-64.62	5.58	-2.04	-13.00	-48.08
430.61	-60.87	-64.70	5.88	-2.05	-13.00	-47.87
1000.00	-46.67	-51.49	7.81	-2.99	-13.00	-33.67
1652.80	-60.53	-65.50	8.81	-3.84	-13.00	-47.53
2479.20	-54.63	-60.92	10.68	-4.39	-13.00	-41.63

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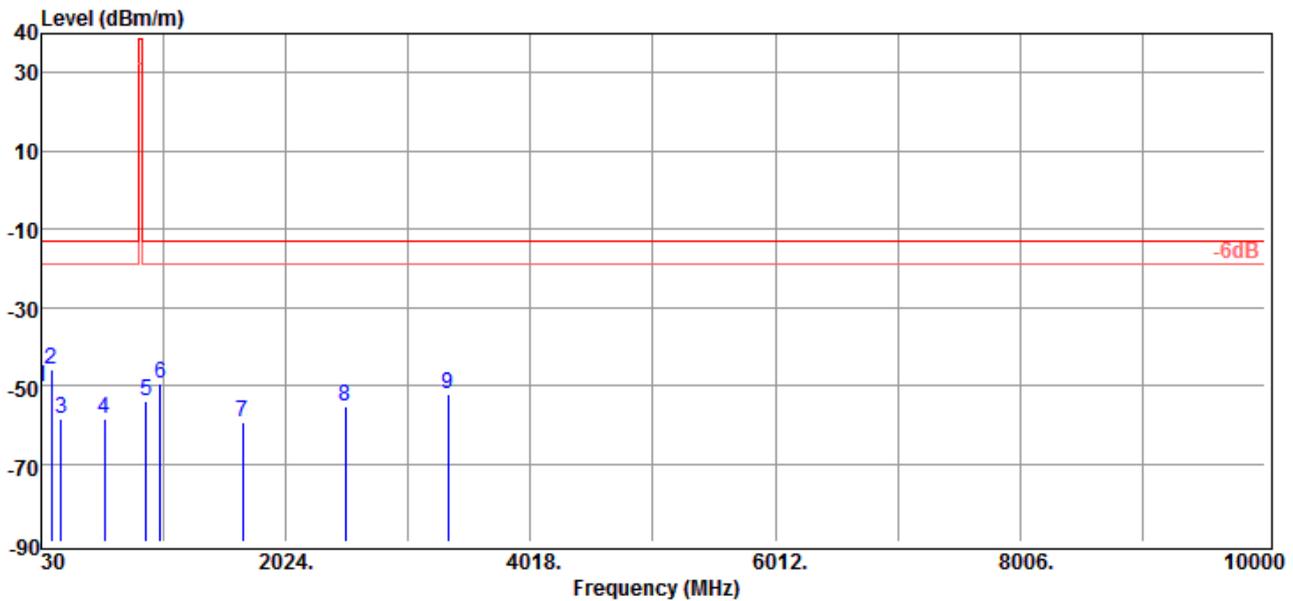
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Operation Mode	:WCDMA B5	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:836.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-50.56	-32.63	-17.44	-0.49	-13.00	-37.56
110.51	-45.91	-44.97	-0.05	-0.89	-13.00	-32.91
191.02	-58.41	-62.51	5.30	-1.20	-13.00	-45.41
546.04	-58.62	-62.48	6.23	-2.37	-13.00	-45.62
881.66	-54.18	-59.33	7.56	-2.41	-13.00	-41.18
999.03	-49.58	-54.41	7.81	-2.98	-13.00	-36.58
1673.20	-59.26	-64.30	8.90	-3.86	-13.00	-46.26
2509.80	-55.26	-61.58	10.71	-4.39	-13.00	-42.26
3346.40	-52.22	-57.97	12.01	-6.26	-13.00	-39.22

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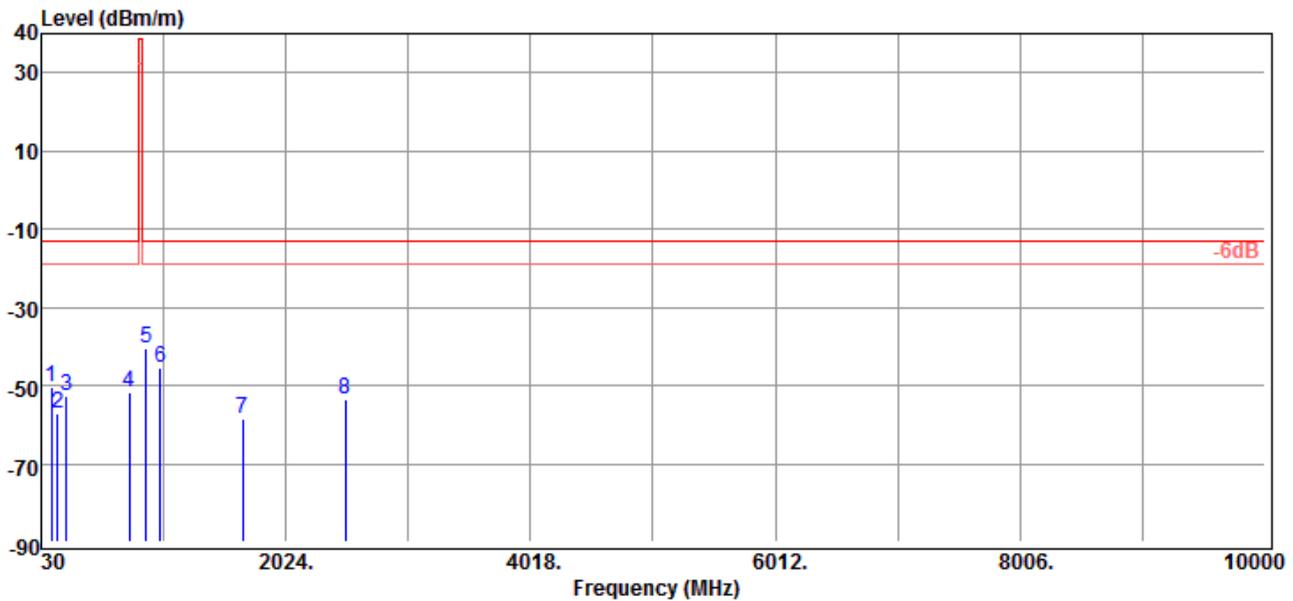
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Operation Mode	:WCDMA B5	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:836.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-50.54	-49.60	-0.05	-0.89	-13.00	-37.54
164.83	-56.95	-59.49	3.61	-1.07	-13.00	-43.95
237.58	-52.64	-56.57	5.32	-1.39	-13.00	-39.64
744.89	-51.57	-56.90	7.40	-2.07	-13.00	-38.57
883.60	-40.56	-45.71	7.56	-2.41	-13.00	-27.56
997.09	-45.59	-50.42	7.80	-2.97	-13.00	-32.59
1673.20	-58.57	-63.61	8.90	-3.86	-13.00	-45.57
2509.80	-53.67	-59.99	10.71	-4.39	-13.00	-40.67

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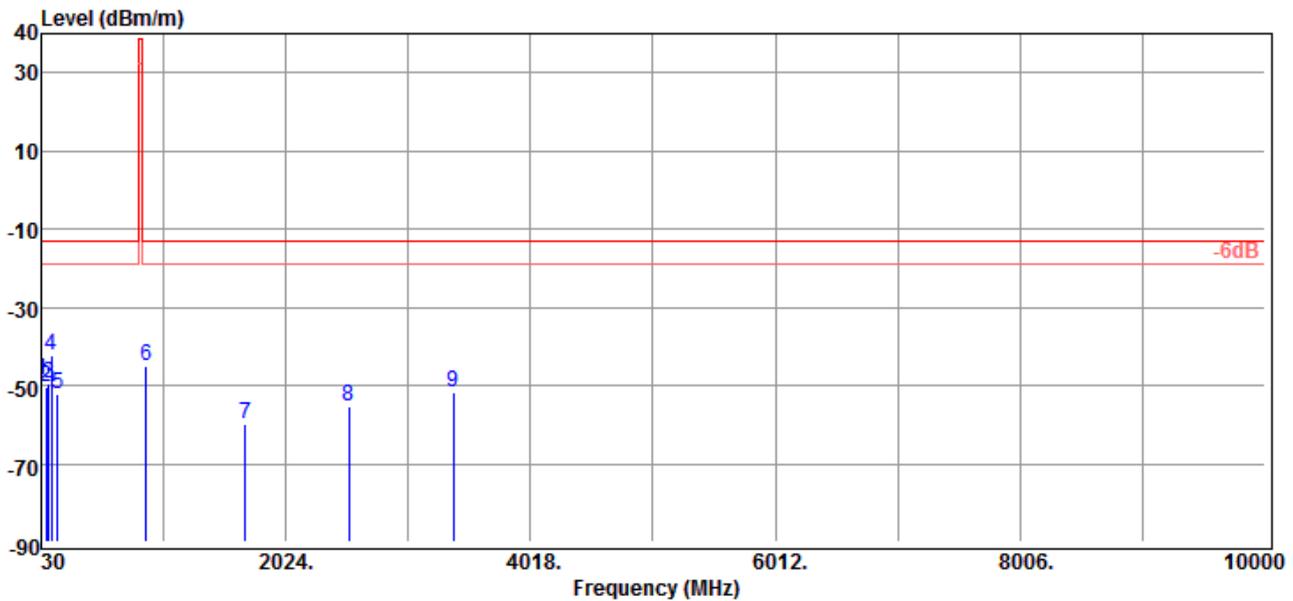
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Operation Mode	:WCDMA B5	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:846.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-48.82	-28.33	-20.05	-0.44	-13.00	-35.82
71.71	-50.21	-50.01	0.54	-0.74	-13.00	-37.21
90.14	-49.67	-48.84	-0.02	-0.81	-13.00	-36.67
110.51	-42.52	-41.58	-0.05	-0.89	-13.00	-29.52
164.83	-52.02	-54.56	3.61	-1.07	-13.00	-39.02
882.63	-45.24	-50.39	7.56	-2.41	-13.00	-32.24
1693.20	-59.97	-65.06	8.98	-3.89	-13.00	-46.97
2539.80	-55.43	-61.78	10.75	-4.40	-13.00	-42.43
3386.40	-51.58	-57.22	12.09	-6.45	-13.00	-38.58

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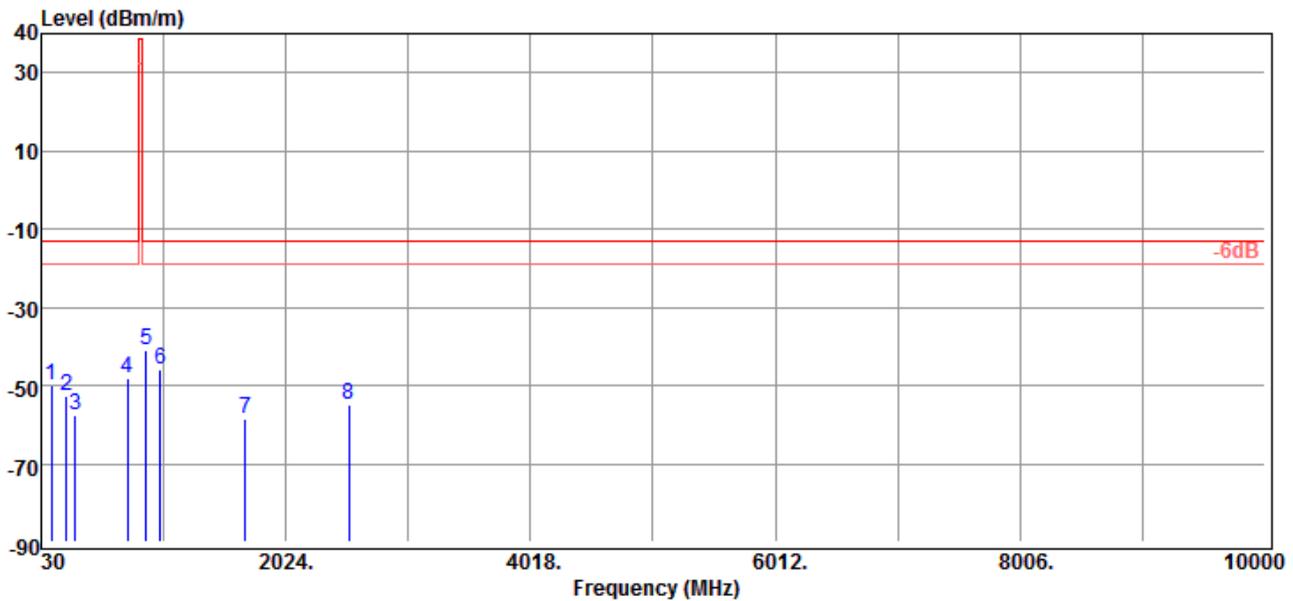
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Operation Mode	:WCDMA B5	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:846.6 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-50.10	-49.16	-0.05	-0.89	-13.00	-37.10
235.64	-52.61	-56.57	5.34	-1.38	-13.00	-39.61
305.48	-57.39	-61.57	5.84	-1.66	-13.00	-44.39
734.22	-48.29	-53.54	7.38	-2.13	-13.00	-35.29
881.66	-41.03	-46.18	7.56	-2.41	-13.00	-28.03
998.06	-46.10	-50.92	7.80	-2.98	-13.00	-33.10
1693.20	-58.48	-63.57	8.98	-3.89	-13.00	-45.48
2539.80	-54.97	-61.32	10.75	-4.40	-13.00	-41.97

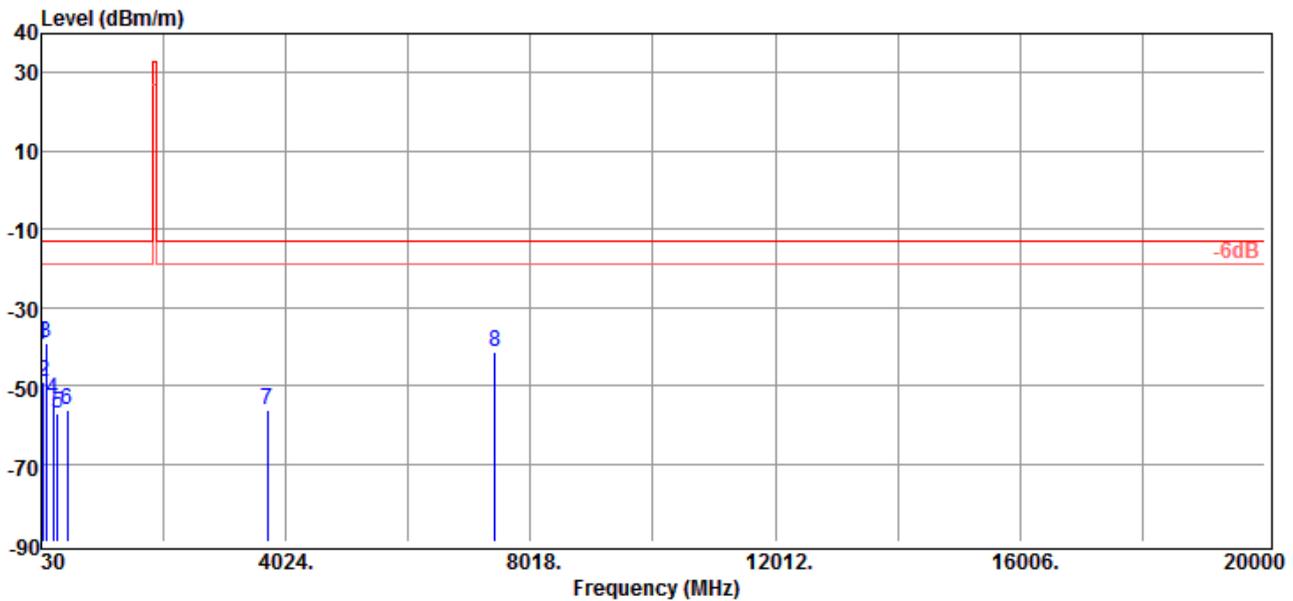
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### Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Operation Mode	:LTEB2 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1860 MHz	Engineer	:Enzo



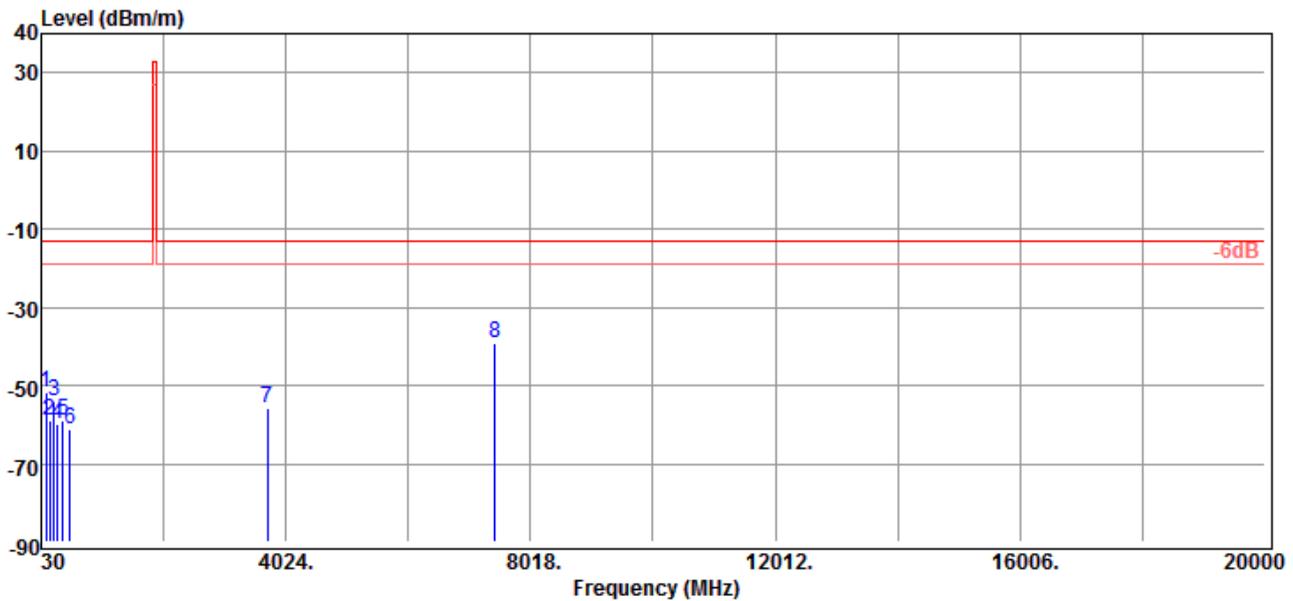
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.82	-39.63	-24.04	-15.06	-0.53	-13.00	-26.63
66.86	-48.87	-48.28	0.11	-0.70	-13.00	-35.87
111.48	-39.00	-38.13	0.03	-0.90	-13.00	-26.00
224.00	-53.56	-57.71	5.49	-1.34	-13.00	-40.56
303.54	-57.01	-61.22	5.85	-1.64	-13.00	-44.01
460.68	-56.30	-60.24	6.12	-2.18	-13.00	-43.30
3720.00	-56.12	-61.84	12.44	-6.72	-13.00	-43.12
7440.00	-41.38	-45.47	11.38	-7.29	-13.00	-28.38

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Operation Mode	:LTEB2 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1860 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.39	-51.78	-51.12	0.24	-0.90	-13.00	-38.78
164.83	-59.03	-61.57	3.61	-1.07	-13.00	-46.03
237.58	-53.82	-57.75	5.32	-1.39	-13.00	-40.82
296.75	-59.68	-63.88	5.81	-1.61	-13.00	-46.68
383.08	-59.09	-62.71	5.63	-2.01	-13.00	-46.09
498.51	-61.43	-65.11	6.28	-2.60	-13.00	-48.43
3720.00	-55.95	-61.67	12.44	-6.72	-13.00	-42.95
7440.00	-39.35	-43.44	11.38	-7.29	-13.00	-26.35

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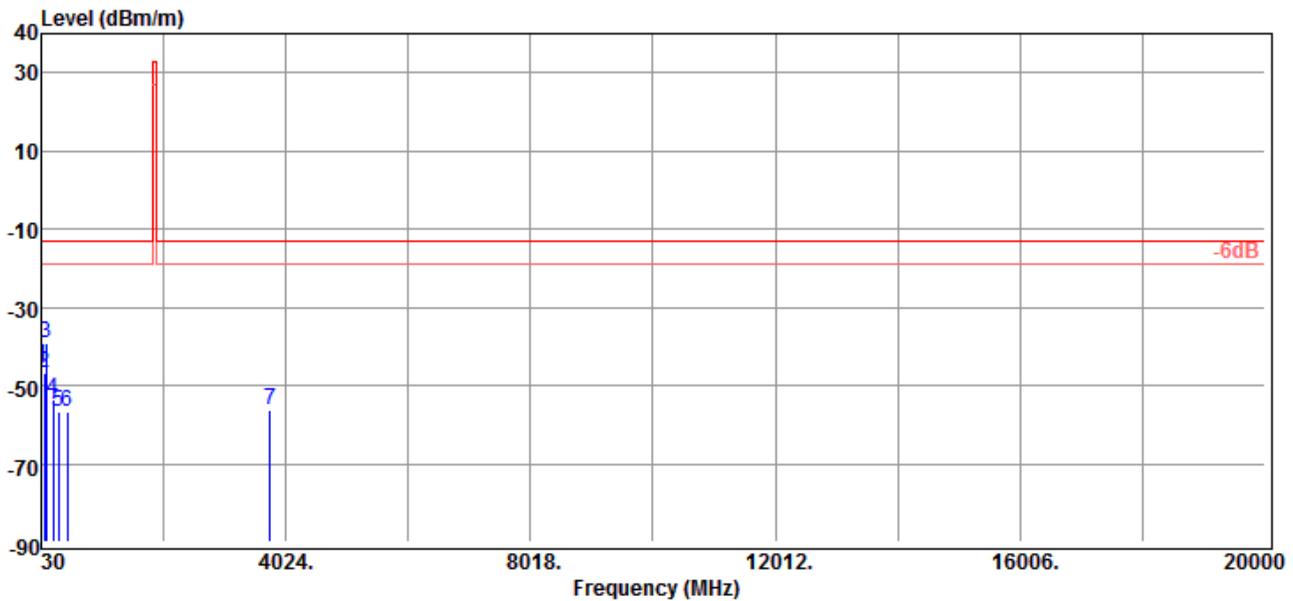
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Operation Mode	:LTEB2 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1880 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-44.99	-30.13	-14.31	-0.55	-13.00	-31.99
74.62	-46.99	-46.83	0.59	-0.75	-13.00	-33.99
110.51	-39.25	-38.31	-0.05	-0.89	-13.00	-26.25
227.88	-53.72	-57.81	5.44	-1.35	-13.00	-40.72
305.48	-56.77	-60.95	5.84	-1.66	-13.00	-43.77
452.92	-56.50	-60.49	6.08	-2.09	-13.00	-43.50
3760.00	-56.23	-62.02	12.46	-6.67	-13.00	-43.23

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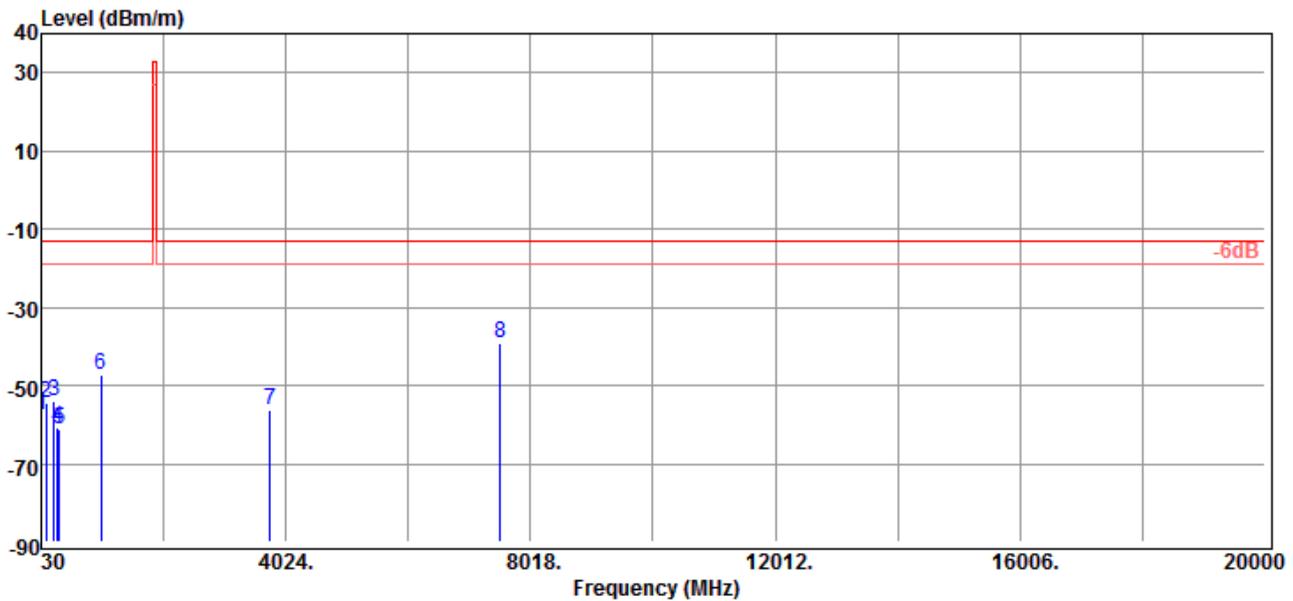
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Operation Mode	:LTEB2 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1880 MHz	Engineer	:Enzo



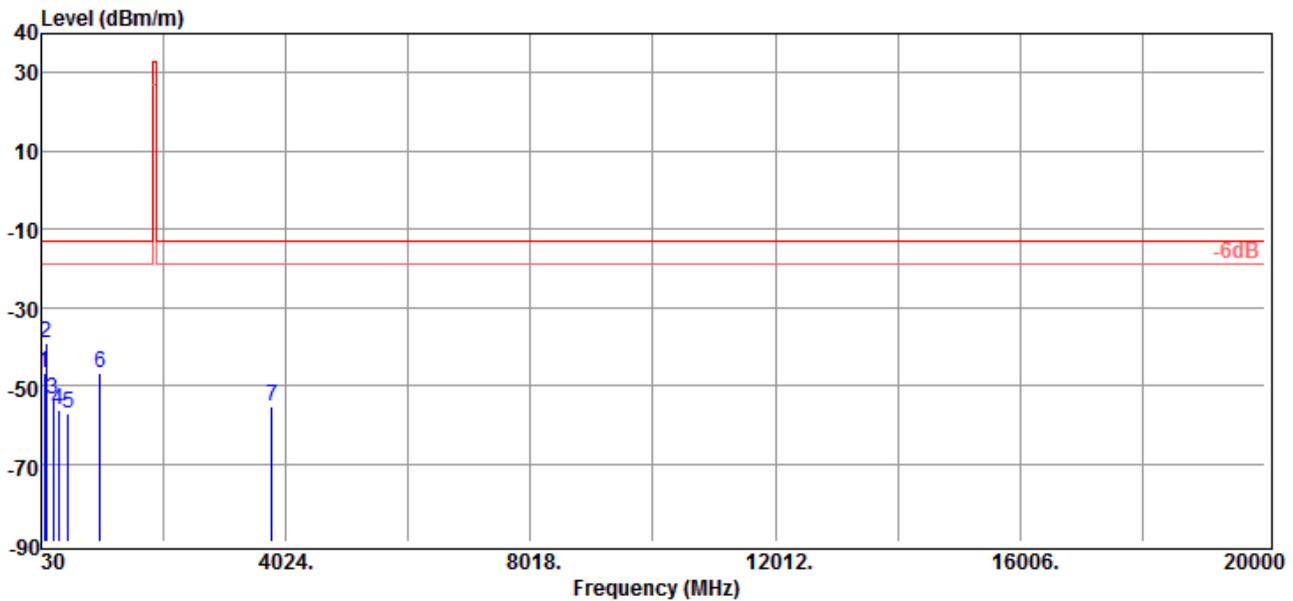
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.48	-36.99	-20.05	-0.44	-13.00	-44.48
115.36	-54.29	-53.70	0.32	-0.91	-13.00	-41.29
235.64	-54.03	-57.99	5.34	-1.38	-13.00	-41.03
304.51	-60.67	-64.86	5.84	-1.65	-13.00	-47.67
332.64	-61.38	-65.35	5.81	-1.84	-13.00	-48.38
1000.00	-47.17	-51.99	7.81	-2.99	-13.00	-34.17
3760.00	-56.16	-61.95	12.46	-6.67	-13.00	-43.16
7520.00	-39.38	-43.36	11.30	-7.32	-13.00	-26.38

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Operation Mode	:LTEB2 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1900 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
73.65	-46.81	-46.63	0.57	-0.75	-13.00	-33.81
110.51	-39.23	-38.29	-0.05	-0.89	-13.00	-26.23
227.88	-53.54	-57.63	5.44	-1.35	-13.00	-40.54
305.48	-56.25	-60.43	5.84	-1.66	-13.00	-43.25
477.17	-57.14	-60.97	6.19	-2.36	-13.00	-44.14
996.12	-47.04	-51.87	7.80	-2.97	-13.00	-34.04
3800.00	-55.33	-61.20	12.48	-6.61	-13.00	-42.33

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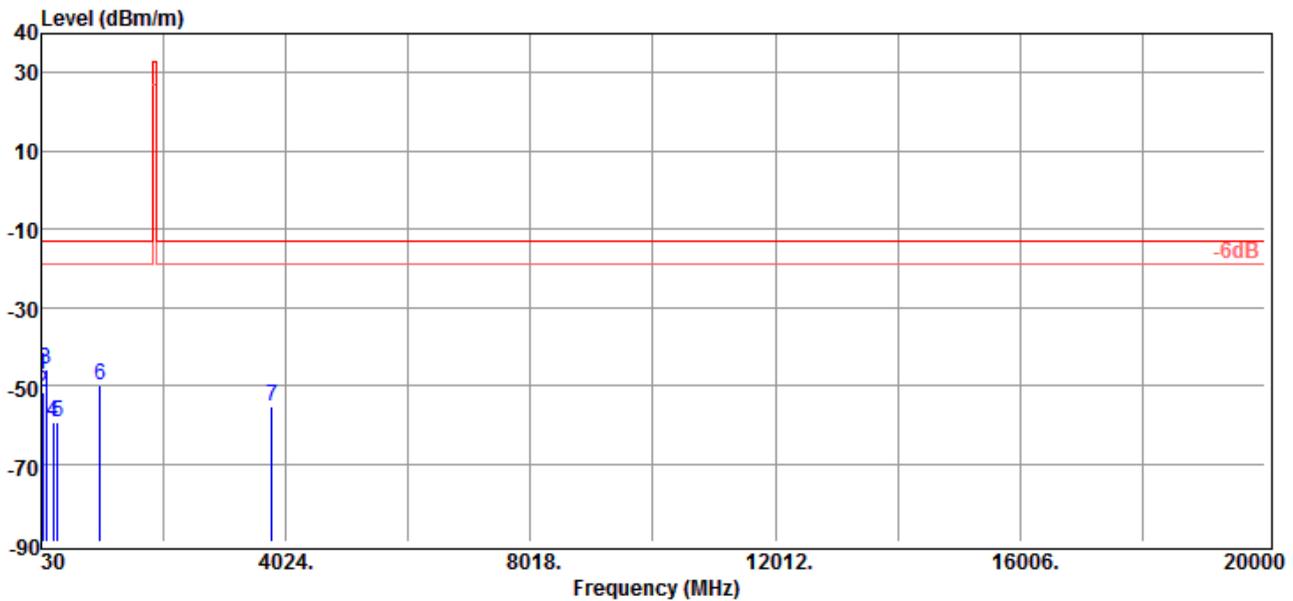
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Operation Mode	:LTEB2 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1900 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-47.38	-30.25	-16.63	-0.50	-13.00	-34.38
45.52	-51.87	-43.48	-7.76	-0.63	-13.00	-38.87
111.48	-45.87	-45.00	0.03	-0.90	-13.00	-32.87
229.82	-59.25	-63.31	5.42	-1.36	-13.00	-46.25
300.63	-59.32	-63.55	5.85	-1.62	-13.00	-46.32
997.09	-50.14	-54.97	7.80	-2.97	-13.00	-37.14
3800.00	-55.19	-61.06	12.48	-6.61	-13.00	-42.19

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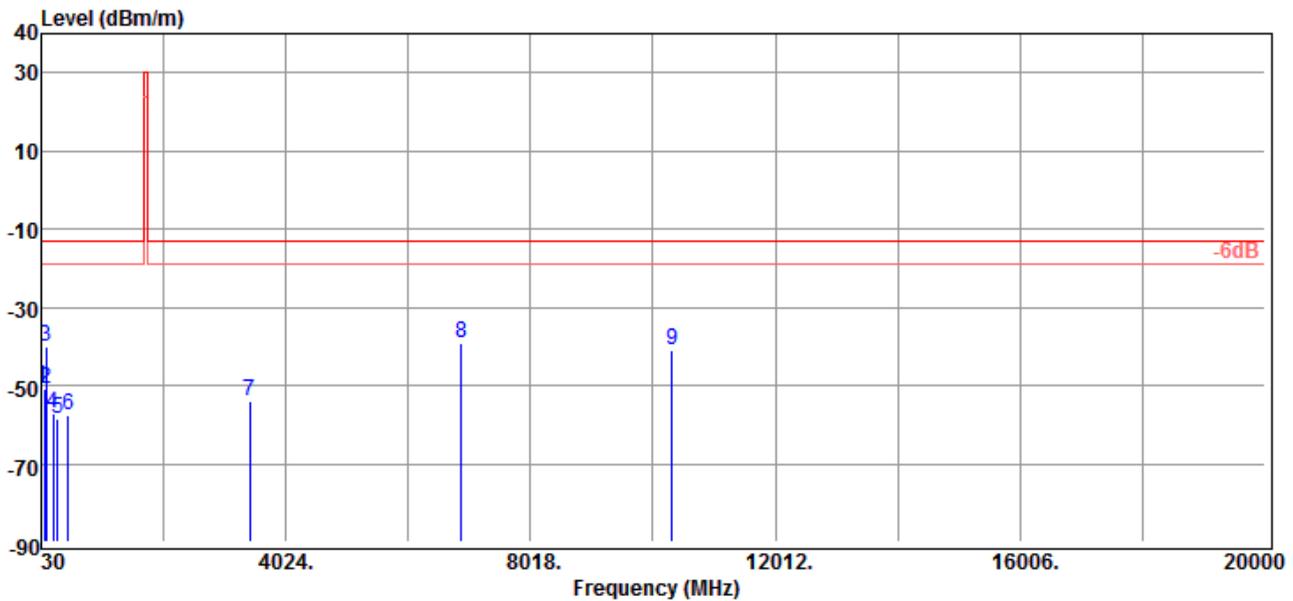
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### Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Operation Mode	:LTEB4 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1720 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-50.22	-32.29	-17.44	-0.49	-13.00	-37.22
90.14	-51.00	-50.17	-0.02	-0.81	-13.00	-38.00
111.48	-40.28	-39.41	0.03	-0.90	-13.00	-27.28
228.85	-57.27	-61.34	5.43	-1.36	-13.00	-44.27
299.66	-58.67	-62.90	5.85	-1.62	-13.00	-45.67
475.23	-57.62	-61.46	6.18	-2.34	-13.00	-44.62
3440.00	-54.02	-59.49	12.19	-6.72	-13.00	-41.02
6880.00	-38.99	-43.79	12.07	-7.27	-13.00	-25.99
10320.00	-41.19	-43.46	11.21	-8.94	-13.00	-28.19

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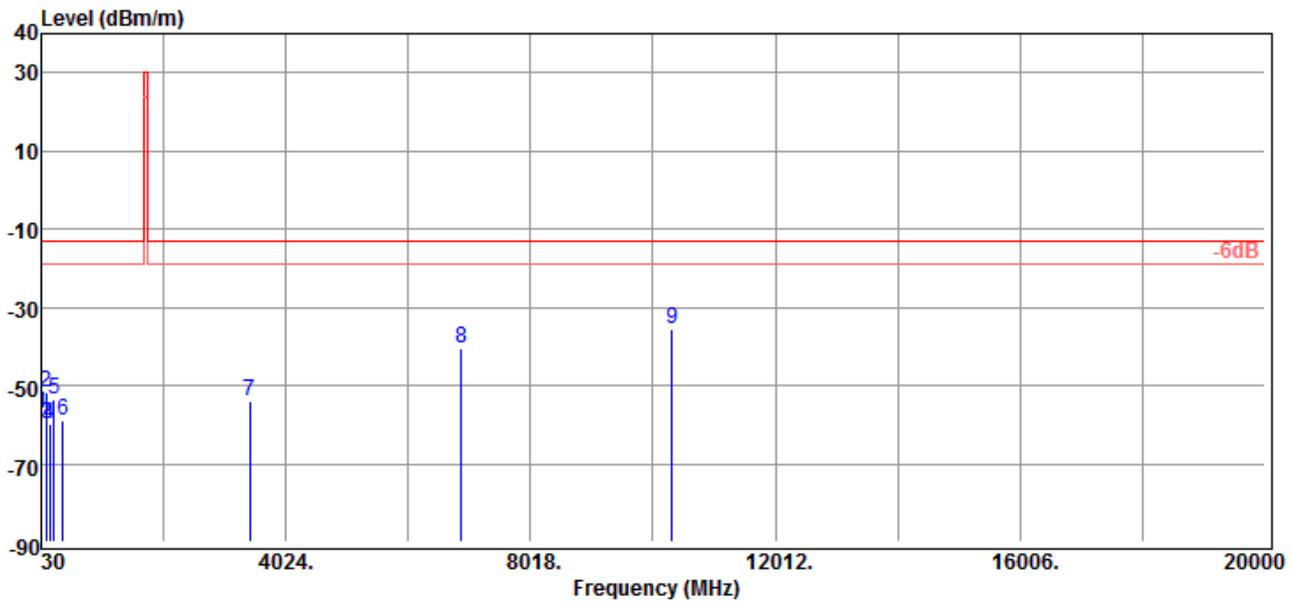
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Operation Mode	:LTEB4 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1720 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.99	-36.50	-20.05	-0.44	-13.00	-43.99
115.36	-51.56	-50.97	0.32	-0.91	-13.00	-38.56
128.94	-60.00	-60.31	1.25	-0.94	-13.00	-47.00
165.80	-60.07	-62.67	3.68	-1.08	-13.00	-47.07
236.61	-53.56	-57.50	5.33	-1.39	-13.00	-40.56
384.05	-59.12	-62.73	5.62	-2.01	-13.00	-46.12
3440.00	-53.87	-59.34	12.19	-6.72	-13.00	-40.87
6880.00	-40.43	-45.23	12.07	-7.27	-13.00	-27.43
10320.00	-35.46	-37.73	11.21	-8.94	-13.00	-22.46

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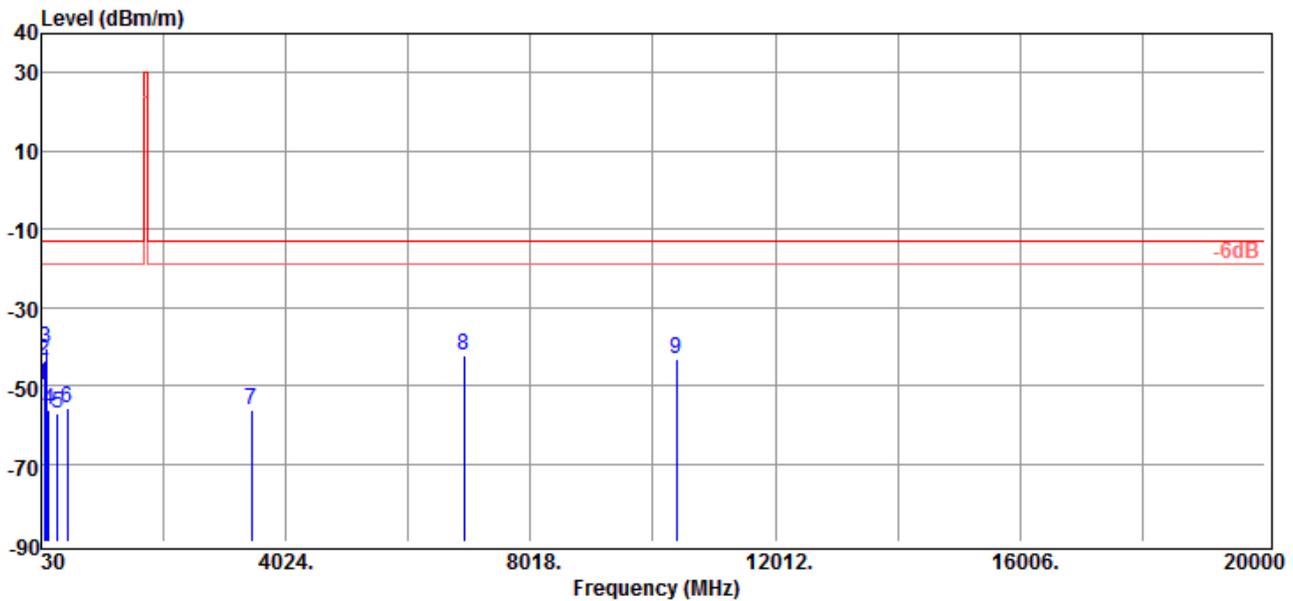
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Operation Mode	:LTEB4 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1732.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-50.16	-31.40	-18.29	-0.47	-13.00	-37.16
74.62	-43.49	-43.33	0.59	-0.75	-13.00	-30.49
111.48	-40.69	-39.82	0.03	-0.90	-13.00	-27.69
158.04	-56.25	-58.34	3.13	-1.04	-13.00	-43.25
304.51	-57.08	-61.27	5.84	-1.65	-13.00	-44.08
453.89	-55.80	-59.79	6.09	-2.10	-13.00	-42.80
3465.00	-56.46	-61.85	12.23	-6.84	-13.00	-43.46
6930.00	-42.37	-47.17	12.04	-7.24	-13.00	-29.37
10395.00	-43.34	-45.41	11.16	-9.09	-13.00	-30.34

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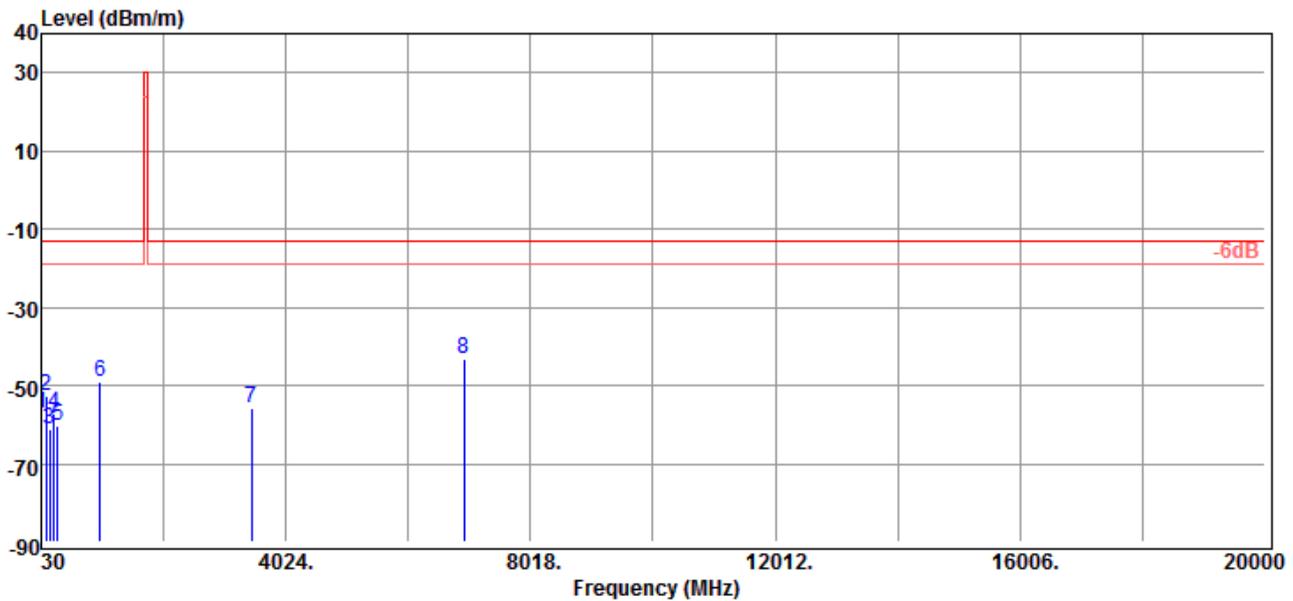
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Operation Mode	:LTEB4 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1732.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.05	-36.56	-20.05	-0.44	-13.00	-44.05
116.33	-52.87	-52.35	0.39	-0.91	-13.00	-39.87
165.80	-61.01	-63.61	3.68	-1.08	-13.00	-48.01
238.55	-57.10	-61.02	5.31	-1.39	-13.00	-44.10
303.54	-60.22	-64.43	5.85	-1.64	-13.00	-47.22
997.09	-49.22	-54.05	7.80	-2.97	-13.00	-36.22
3465.00	-55.81	-61.20	12.23	-6.84	-13.00	-42.81
6930.00	-43.12	-47.92	12.04	-7.24	-13.00	-30.12

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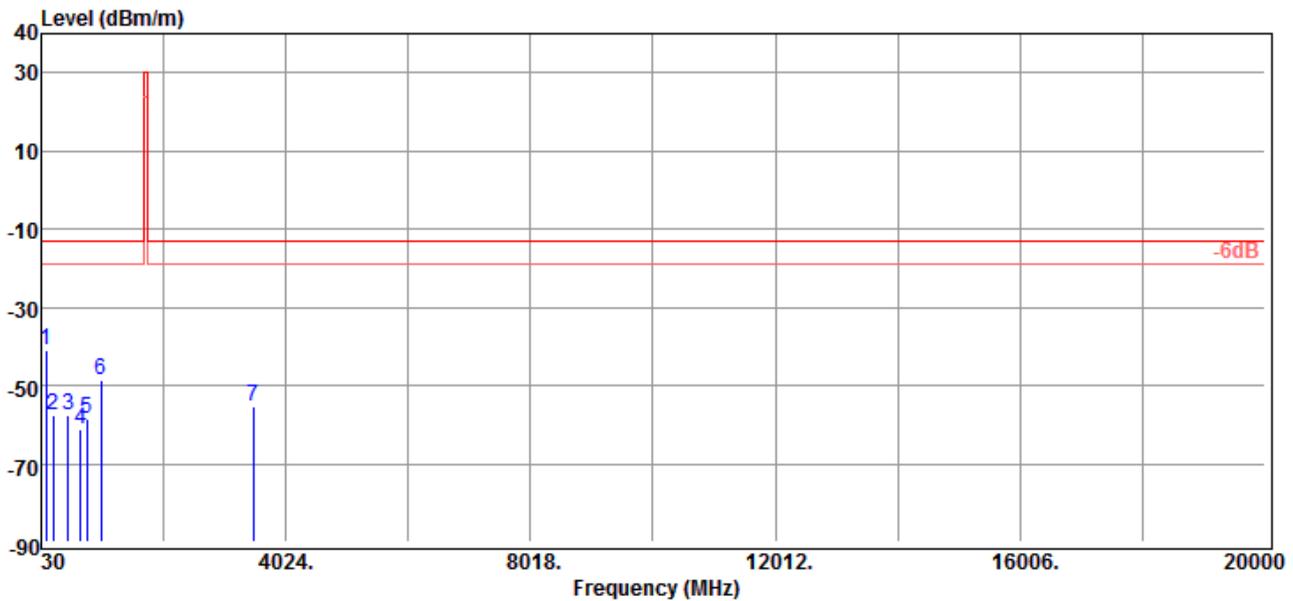
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Operation Mode	:LTEB4 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-40.76	-39.89	0.03	-0.90	-13.00	-27.76
227.88	-57.42	-61.51	5.44	-1.35	-13.00	-44.42
473.29	-57.40	-61.26	6.18	-2.32	-13.00	-44.40
666.32	-61.09	-65.65	7.02	-2.46	-13.00	-48.09
771.08	-58.70	-63.97	7.48	-2.21	-13.00	-45.70
1000.00	-48.78	-53.60	7.81	-2.99	-13.00	-35.78
3490.00	-55.43	-60.75	12.28	-6.96	-13.00	-42.43

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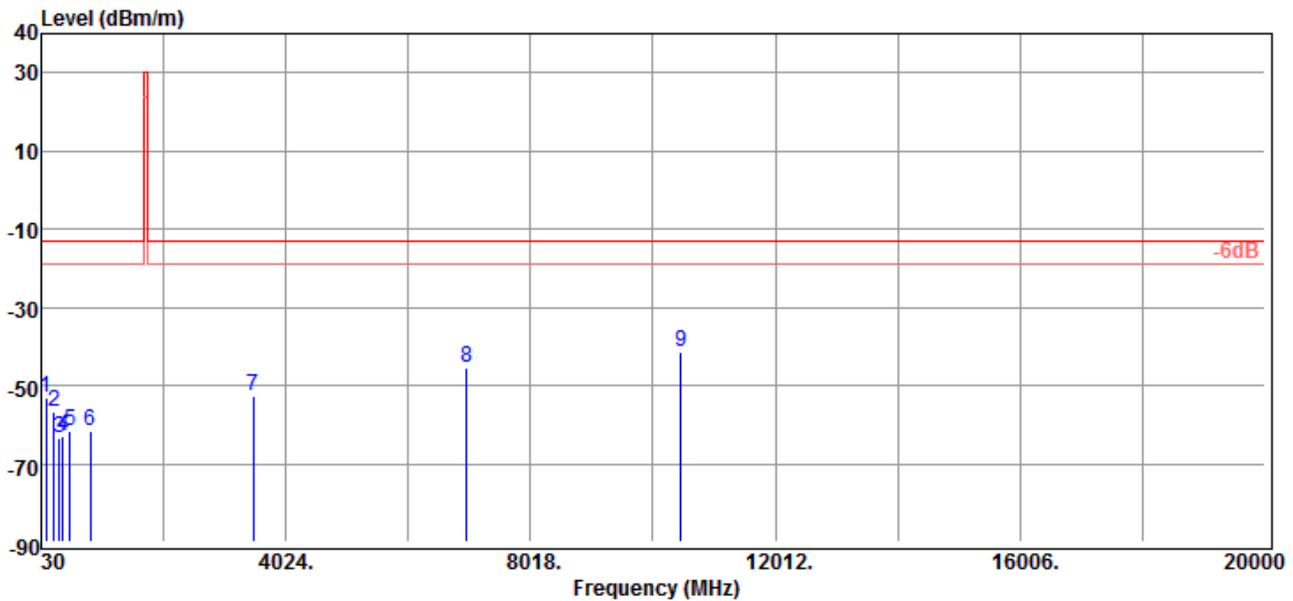
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Operation Mode	:LTEB4 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
116.33	-53.03	-52.51	0.39	-0.91	-13.00	-40.03
237.58	-56.79	-60.72	5.32	-1.39	-13.00	-43.79
332.64	-63.32	-67.29	5.81	-1.84	-13.00	-50.32
378.23	-63.10	-66.75	5.65	-2.00	-13.00	-50.10
499.48	-61.45	-65.13	6.29	-2.61	-13.00	-48.45
832.19	-61.73	-66.86	7.52	-2.39	-13.00	-48.73
3490.00	-52.72	-58.04	12.28	-6.96	-13.00	-39.72
6980.00	-45.37	-50.18	12.01	-7.20	-13.00	-32.37
10470.00	-41.61	-43.48	11.12	-9.25	-13.00	-28.61

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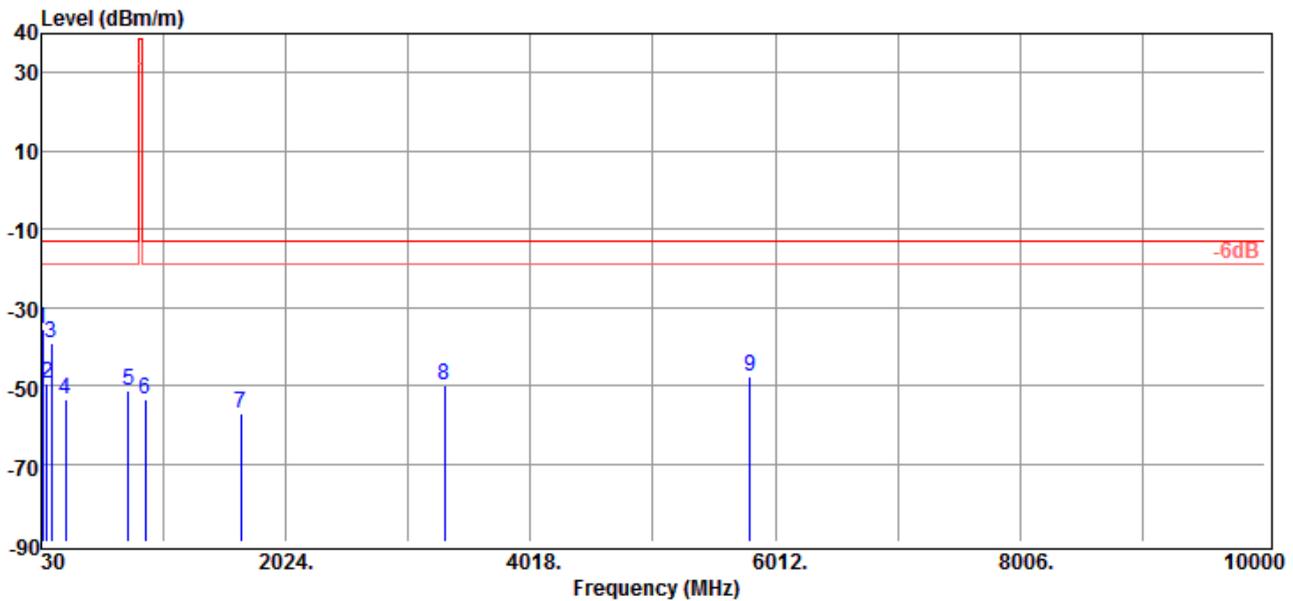
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### Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Mode	:LTEB5 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:829 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
38.73	-35.63	-22.19	-12.86	-0.58	-13.00	-22.63
78.50	-49.46	-49.34	0.65	-0.77	-13.00	-36.46
111.48	-39.08	-38.21	0.03	-0.90	-13.00	-26.08
230.79	-53.58	-57.63	5.41	-1.36	-13.00	-40.58
741.01	-51.54	-56.84	7.39	-2.09	-13.00	-38.54
875.84	-53.47	-58.62	7.55	-2.40	-13.00	-40.47
1658.00	-56.96	-61.95	8.83	-3.84	-13.00	-43.96
3316.00	-50.13	-55.97	11.95	-6.11	-13.00	-37.13
5803.00	-47.56	-53.70	13.06	-6.92	-13.00	-34.56

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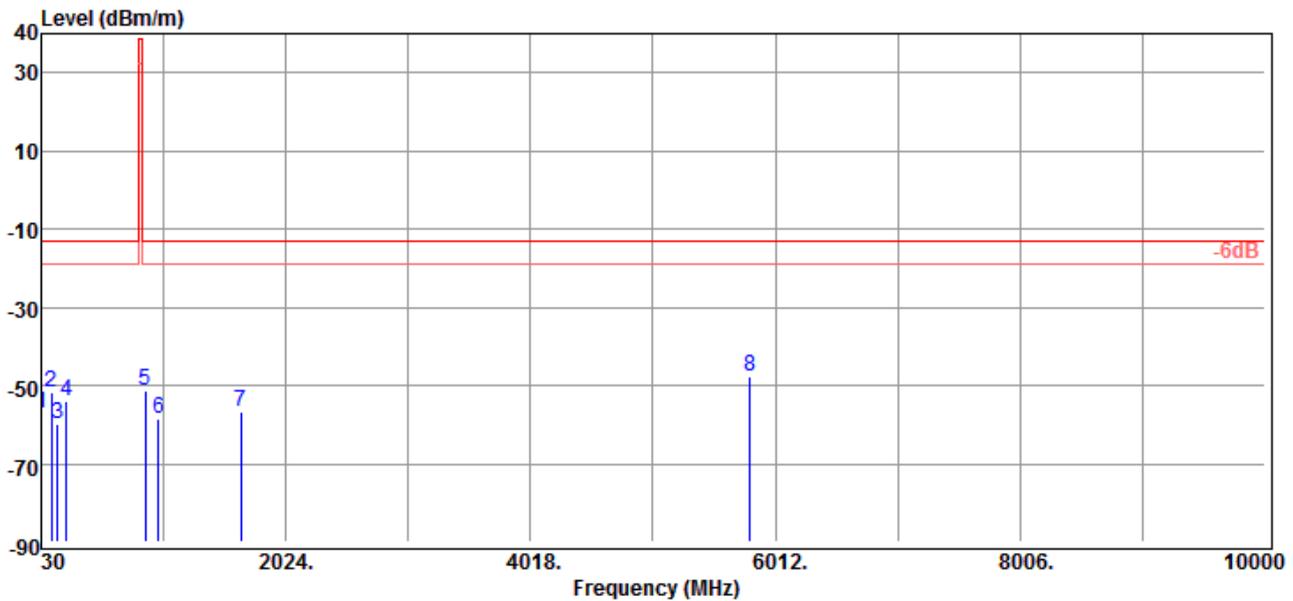
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Operation Mode	:LTEB5 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:829 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.07	-36.58	-20.05	-0.44	-13.00	-44.07
113.42	-51.93	-51.20	0.17	-0.90	-13.00	-38.93
164.83	-59.74	-62.28	3.61	-1.07	-13.00	-46.74
237.58	-53.82	-57.75	5.32	-1.39	-13.00	-40.82
875.84	-51.38	-56.53	7.55	-2.40	-13.00	-38.38
986.42	-58.46	-63.31	7.77	-2.92	-13.00	-45.46
1658.00	-56.92	-61.91	8.83	-3.84	-13.00	-43.92
5803.00	-47.81	-53.95	13.06	-6.92	-13.00	-34.81

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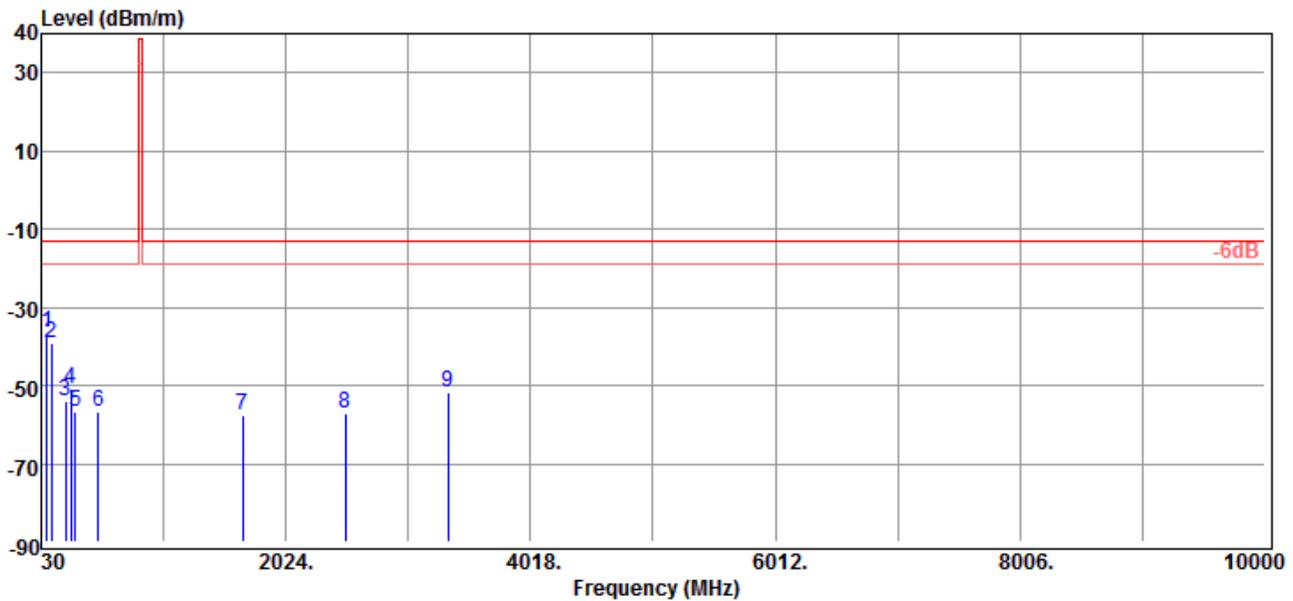
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Operation Mode	:LTEB5 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:836.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
75.59	-36.59	-36.43	0.60	-0.76	-13.00	-23.59
110.51	-39.21	-38.27	-0.05	-0.89	-13.00	-26.21
227.88	-54.00	-58.09	5.44	-1.35	-13.00	-41.00
272.50	-50.79	-54.76	5.49	-1.52	-13.00	-37.79
305.48	-56.58	-60.76	5.84	-1.66	-13.00	-43.58
498.51	-56.81	-60.49	6.28	-2.60	-13.00	-43.81
1673.00	-57.82	-62.86	8.90	-3.86	-13.00	-44.82
2509.50	-57.00	-63.32	10.71	-4.39	-13.00	-44.00
3346.00	-51.57	-57.32	12.01	-6.26	-13.00	-38.57

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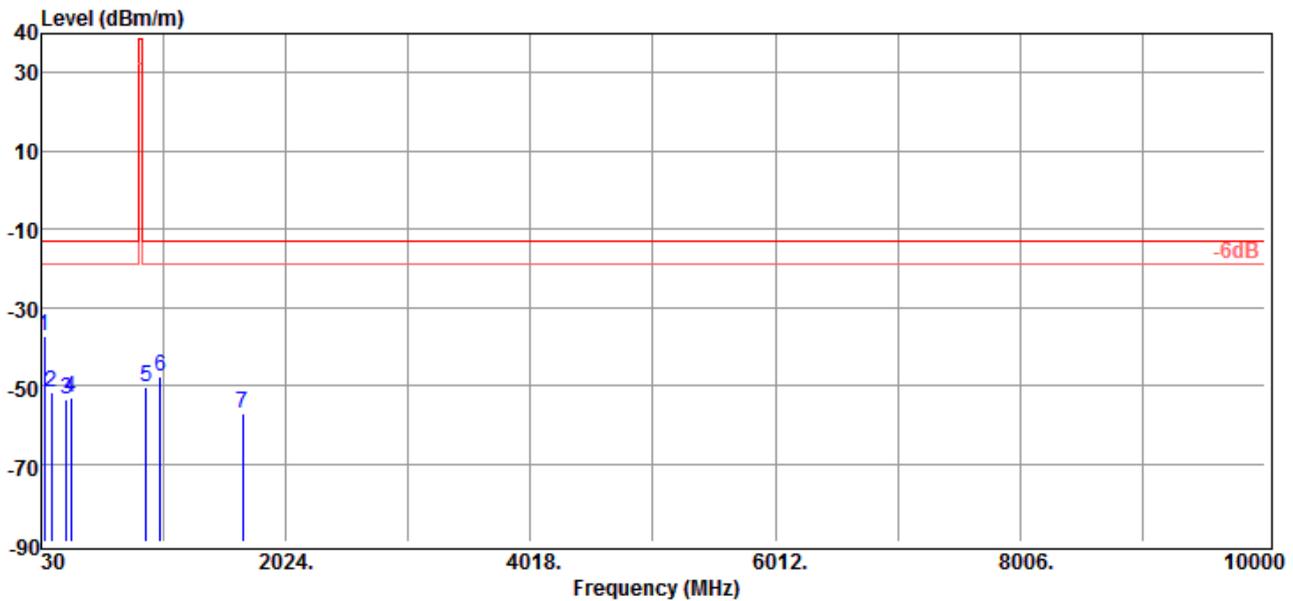
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Operation Mode	:LTEB5 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:836.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	-37.36	-33.73	-2.97	-0.66	-13.00	-24.36
115.36	-51.92	-51.33	0.32	-0.91	-13.00	-38.92
237.58	-53.55	-57.48	5.32	-1.39	-13.00	-40.55
272.50	-53.09	-57.06	5.49	-1.52	-13.00	-40.09
881.66	-50.35	-55.50	7.56	-2.41	-13.00	-37.35
997.09	-47.77	-52.60	7.80	-2.97	-13.00	-34.77
1673.00	-57.38	-62.42	8.90	-3.86	-13.00	-44.38

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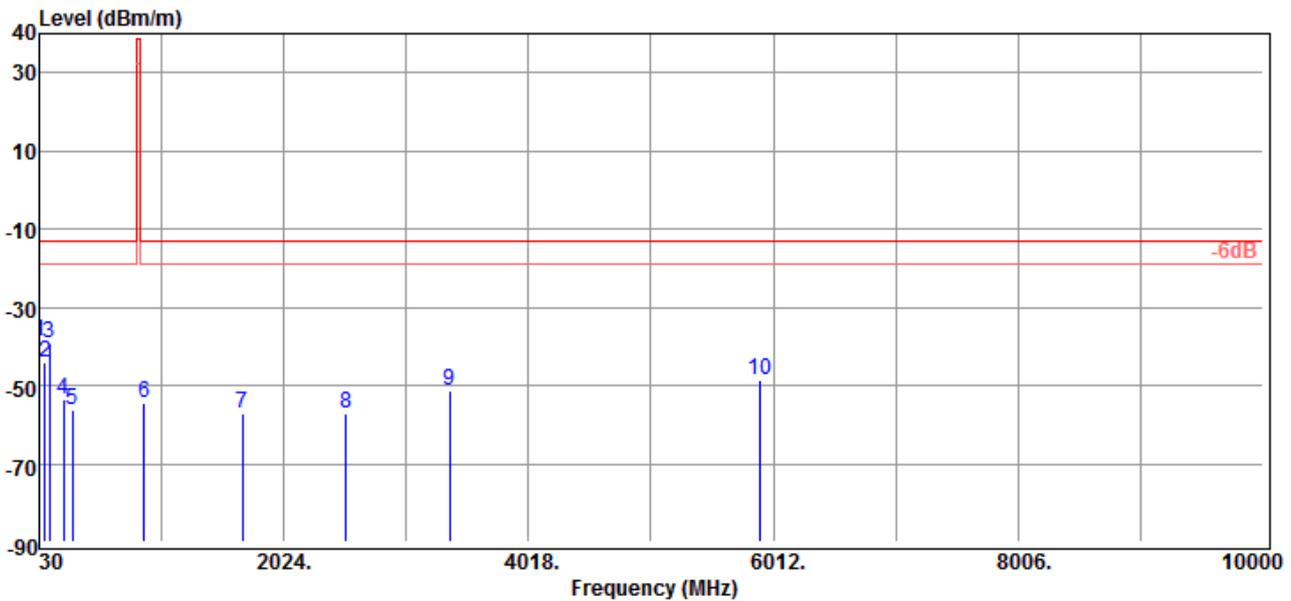
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Operation Mode	:LTEB5 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:844 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-38.55	-22.20	-15.83	-0.52	-13.00	-25.55
73.65	-43.97	-43.79	0.57	-0.75	-13.00	-30.97
110.51	-39.39	-38.45	-0.05	-0.89	-13.00	-26.39
227.88	-53.76	-57.85	5.44	-1.35	-13.00	-40.76
300.63	-56.44	-60.67	5.85	-1.62	-13.00	-43.44
882.63	-54.47	-59.62	7.56	-2.41	-13.00	-41.47
1688.00	-57.08	-62.16	8.96	-3.88	-13.00	-44.08
2532.00	-57.01	-63.35	10.74	-4.40	-13.00	-44.01
3376.00	-51.25	-56.92	12.07	-6.40	-13.00	-38.25
5908.00	-48.54	-54.50	13.08	-7.12	-13.00	-35.54

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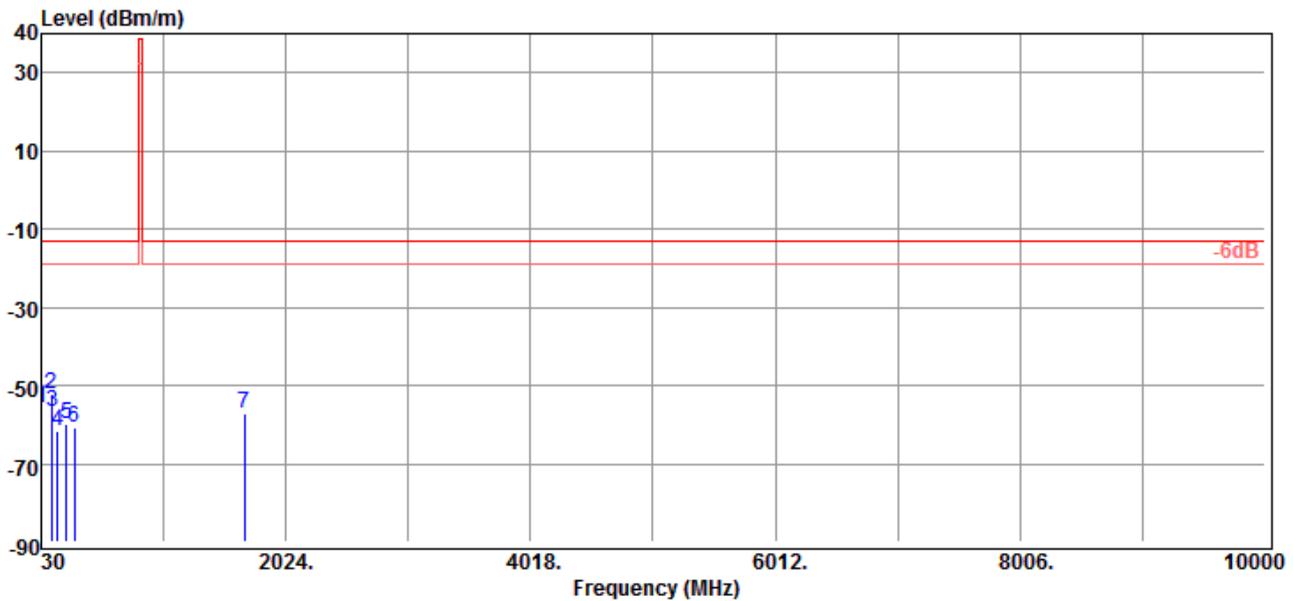
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Operation Mode	:LTEB5 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:844 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-55.77	-37.84	-17.44	-0.49	-13.00	-42.77
110.51	-52.26	-51.32	-0.05	-0.89	-13.00	-39.26
123.12	-56.93	-56.86	0.86	-0.93	-13.00	-43.93
163.86	-61.68	-64.15	3.54	-1.07	-13.00	-48.68
235.64	-59.69	-63.65	5.34	-1.38	-13.00	-46.69
298.69	-60.60	-64.81	5.83	-1.62	-13.00	-47.60
1688.00	-57.04	-62.12	8.96	-3.88	-13.00	-44.04

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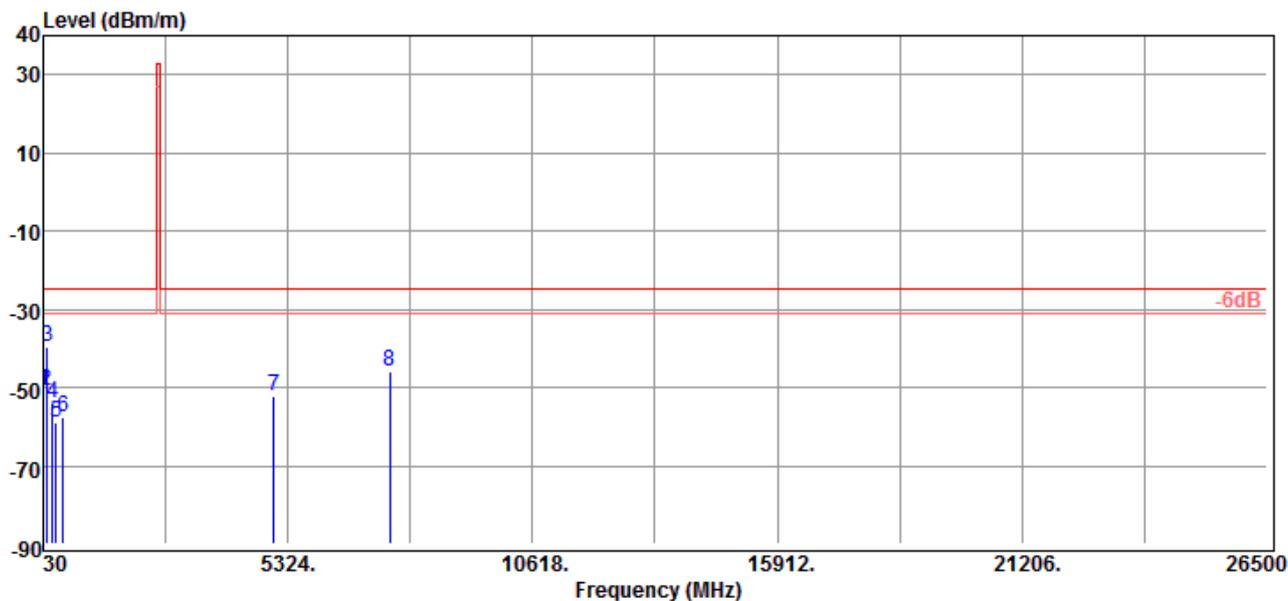
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### Radiated Spurious Emission Measurement Result: LTE-Band 7 (The Worst Case)

Operation Mode	:LTEB7 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2510 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-50.67	-32.74	-17.44	-0.49	-25.00	-25.67
89.17	-50.93	-50.16	0.04	-0.81	-25.00	-25.93
111.48	-39.45	-38.58	0.03	-0.90	-25.00	-14.45
227.88	-54.00	-58.09	5.44	-1.35	-25.00	-29.00
301.60	-59.05	-63.27	5.85	-1.63	-25.00	-34.05
451.95	-57.69	-61.69	6.08	-2.08	-25.00	-32.69
5020.00	-52.15	-57.86	12.52	-6.81	-25.00	-27.15
7530.00	-45.73	-49.70	11.30	-7.33	-25.00	-20.73

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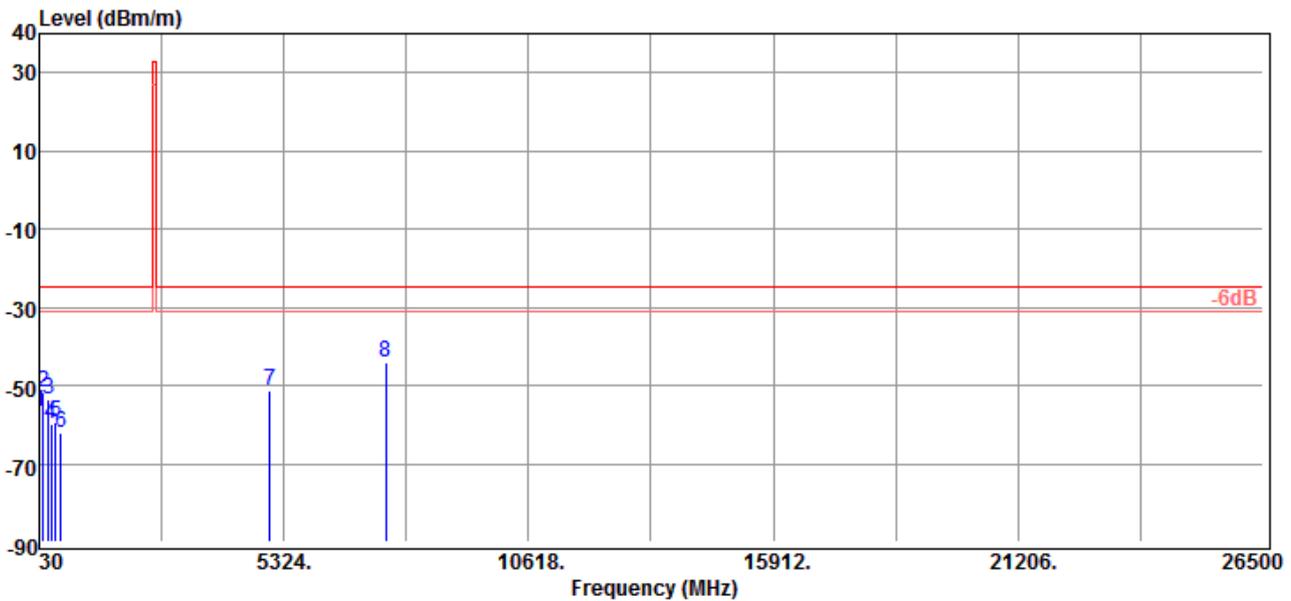
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Operation Mode	:LTEB7 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2510 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-56.88	-38.95	-17.44	-0.49	-25.00	-31.88
114.39	-51.90	-51.24	0.24	-0.90	-25.00	-26.90
237.58	-53.74	-57.67	5.32	-1.39	-25.00	-28.74
294.81	-60.03	-64.21	5.78	-1.60	-25.00	-35.03
378.23	-59.51	-63.16	5.65	-2.00	-25.00	-34.51
500.45	-62.09	-65.76	6.29	-2.62	-25.00	-37.09
5020.00	-51.16	-56.87	12.52	-6.81	-25.00	-26.16
7530.00	-44.20	-48.17	11.30	-7.33	-25.00	-19.20

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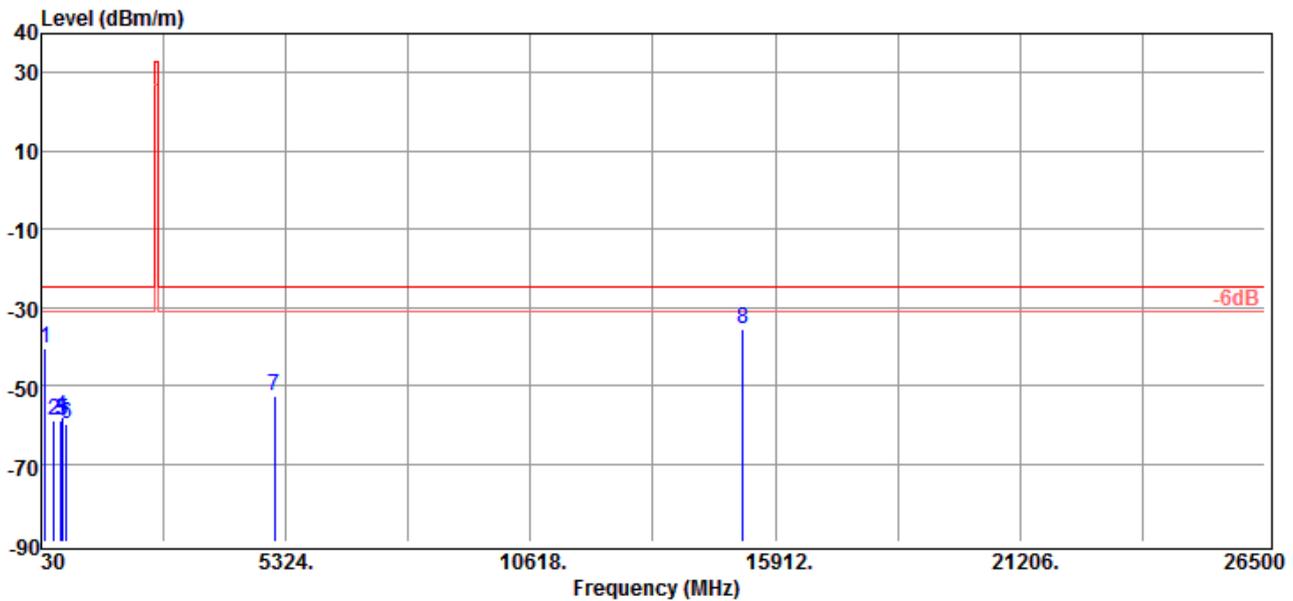
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Operation Mode	:LTEB7 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2535 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-40.56	-39.69	0.03	-0.90	-25.00	-15.56
305.48	-58.89	-63.07	5.84	-1.66	-25.00	-33.89
453.89	-58.79	-62.78	6.09	-2.10	-25.00	-33.79
482.02	-58.02	-61.81	6.21	-2.42	-25.00	-33.02
499.48	-58.93	-62.61	6.29	-2.61	-25.00	-33.93
575.14	-59.73	-63.95	6.45	-2.23	-25.00	-34.73
5070.00	-52.58	-58.39	12.57	-6.76	-25.00	-27.58
15210.00	-35.60	-36.66	13.76	-12.70	-25.00	-10.60

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Operation Mode	:LTEB7 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2535 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-57.97	-40.04	-17.44	-0.49	-25.00	-32.97
116.33	-53.95	-53.43	0.39	-0.91	-25.00	-28.95
236.61	-56.62	-60.56	5.33	-1.39	-25.00	-31.62
268.62	-63.06	-66.99	5.44	-1.51	-25.00	-38.06
332.64	-63.28	-67.25	5.81	-1.84	-25.00	-38.28
458.74	-62.48	-66.43	6.11	-2.16	-25.00	-37.48
5070.00	-52.62	-58.43	12.57	-6.76	-25.00	-27.62
15210.00	-34.84	-35.90	13.76	-12.70	-25.00	-9.84

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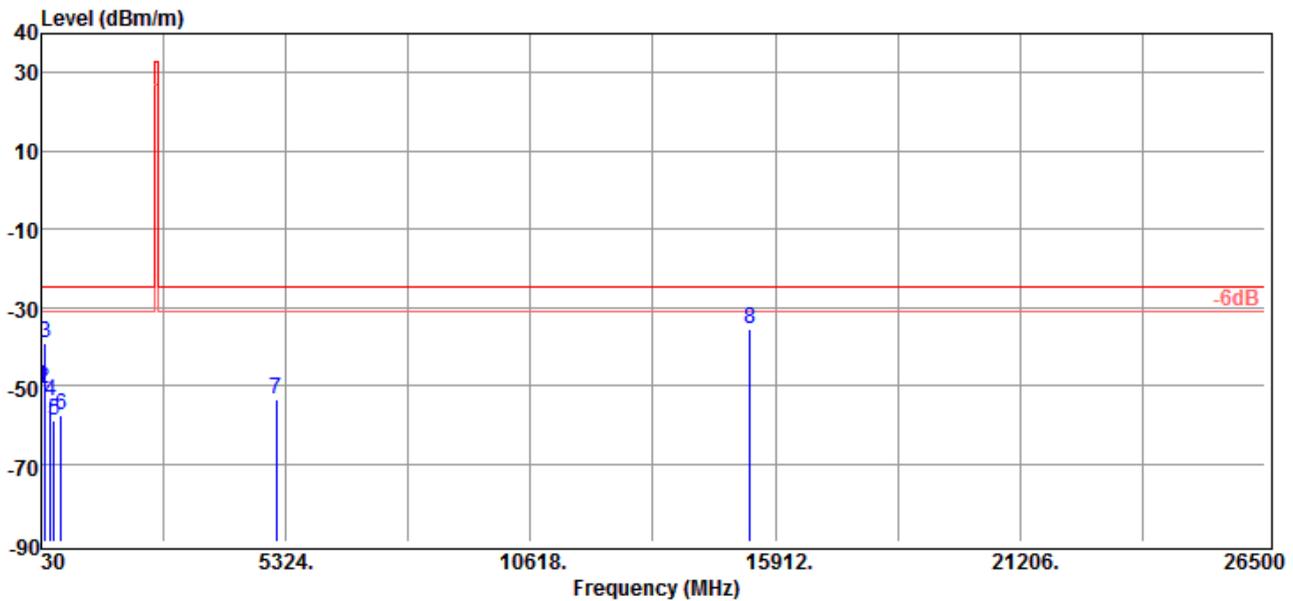
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Operation Mode	:LTEB7 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2560 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-50.51	-32.58	-17.44	-0.49	-25.00	-25.51
89.17	-51.07	-50.30	0.04	-0.81	-25.00	-26.07
110.51	-39.13	-38.19	-0.05	-0.89	-25.00	-14.13
227.88	-53.99	-58.08	5.44	-1.35	-25.00	-28.99
299.66	-59.18	-63.41	5.85	-1.62	-25.00	-34.18
453.89	-57.64	-61.63	6.09	-2.10	-25.00	-32.64
5120.00	-53.52	-59.43	12.62	-6.71	-25.00	-28.52
15360.00	-35.71	-37.63	14.71	-12.79	-25.00	-10.71

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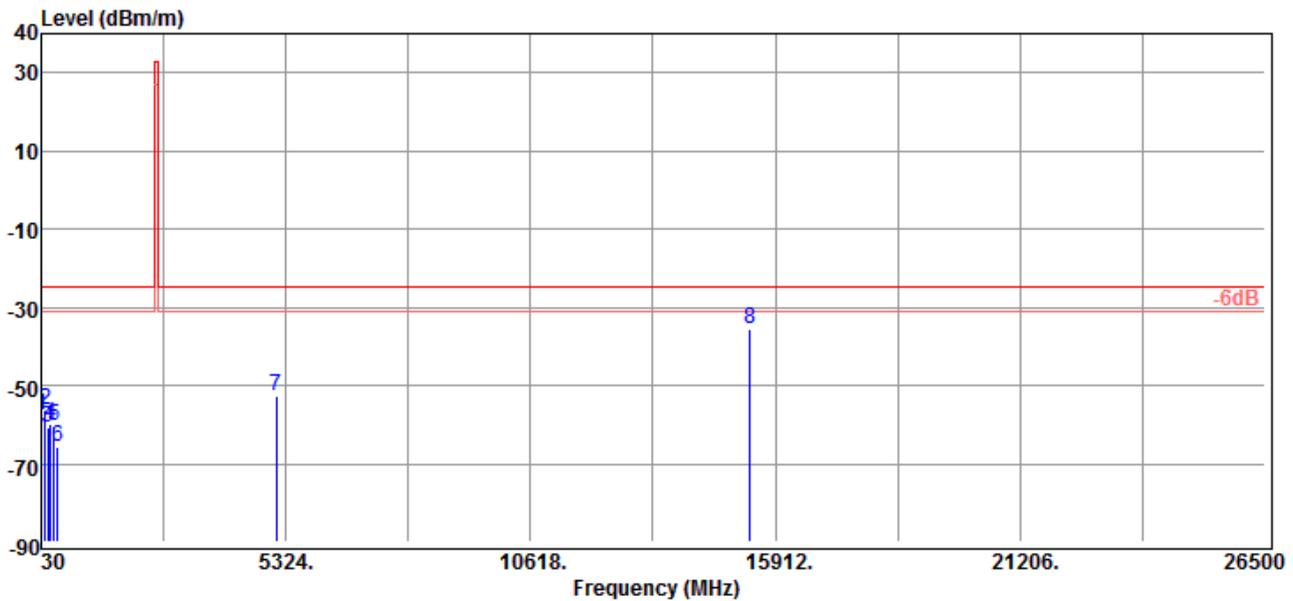
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Operation Mode	:LTEB7 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2560 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-57.67	-38.91	-18.29	-0.47	-25.00	-32.67
111.48	-56.45	-55.58	0.03	-0.90	-25.00	-31.45
165.80	-60.75	-63.35	3.68	-1.08	-25.00	-35.75
234.67	-60.00	-63.98	5.36	-1.38	-25.00	-35.00
303.54	-60.10	-64.31	5.85	-1.64	-25.00	-35.10
388.90	-65.61	-69.19	5.60	-2.02	-25.00	-40.61
5120.00	-52.80	-58.71	12.62	-6.71	-25.00	-27.80
15360.00	-35.48	-37.40	14.71	-12.79	-25.00	-10.48

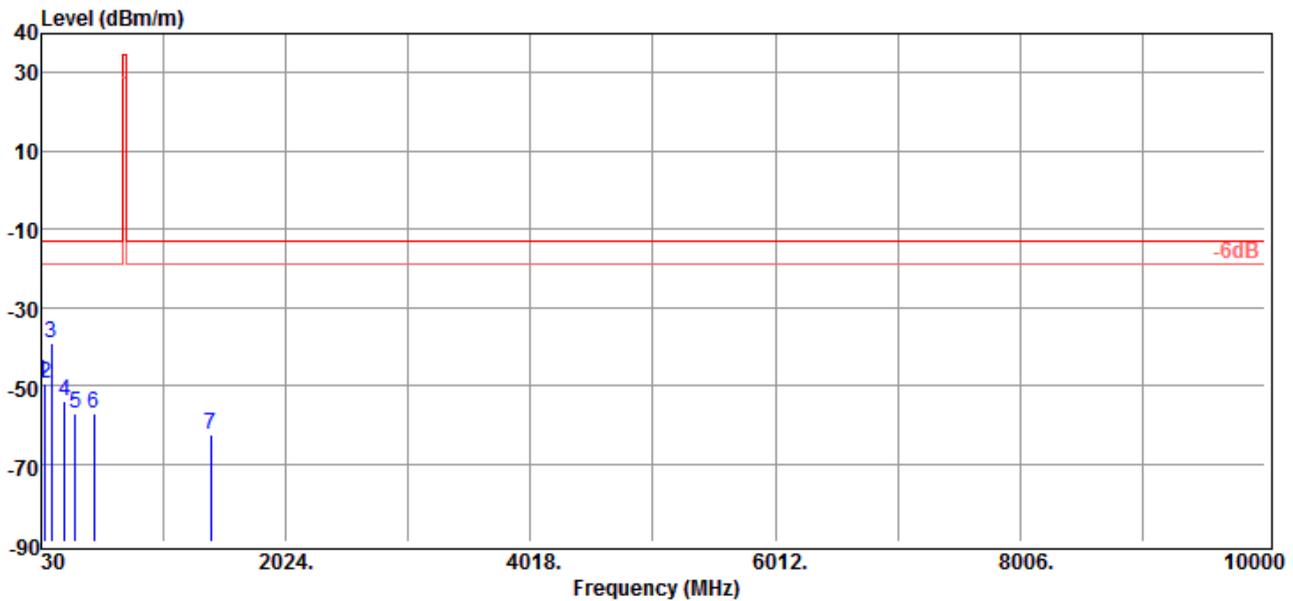
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### Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Mode	:LTEB12 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:704 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
34.85	-49.20	-32.85	-15.83	-0.52	-13.00	-36.20
65.89	-49.45	-48.73	-0.02	-0.70	-13.00	-36.45
110.51	-39.37	-38.43	-0.05	-0.89	-13.00	-26.37
224.00	-53.81	-57.96	5.49	-1.34	-13.00	-40.81
305.48	-56.94	-61.12	5.84	-1.66	-13.00	-43.94
457.77	-57.28	-61.24	6.11	-2.15	-13.00	-44.28
1408.00	-62.47	-66.71	7.73	-3.49	-13.00	-49.47

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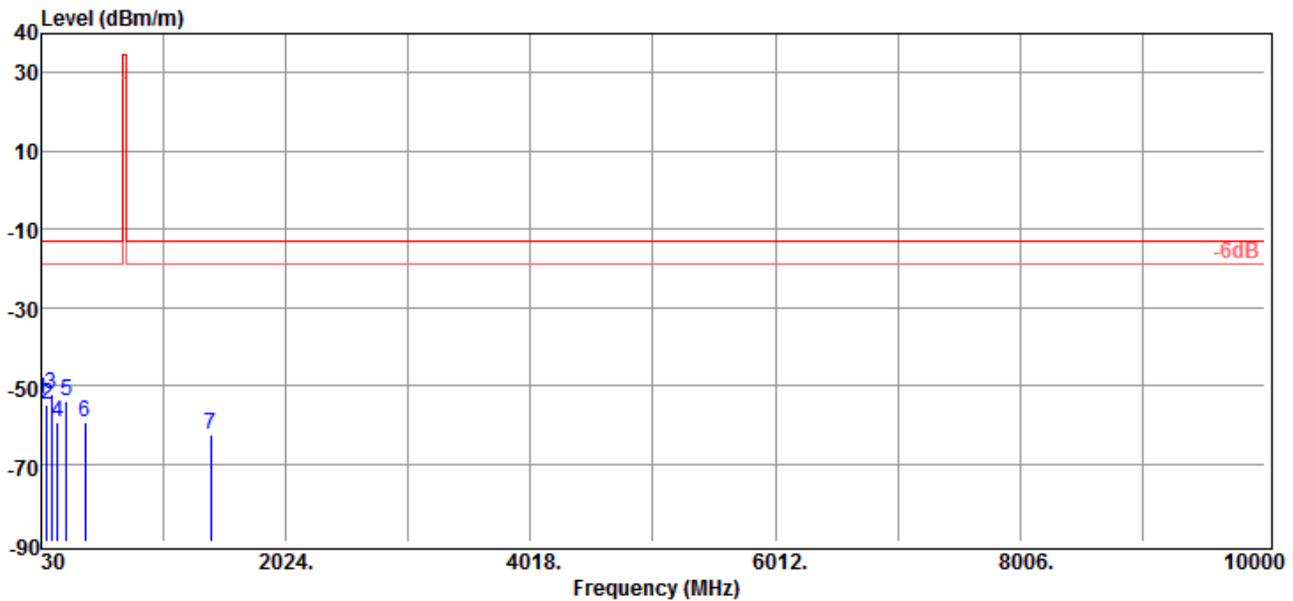
t (886-2) 2299-3279

f (886-2) 2298-0488

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Operation Mode	:LTEB12 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:704 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-53.45	-36.32	-16.63	-0.50	-13.00	-40.45
75.59	-54.76	-54.60	0.60	-0.76	-13.00	-41.76
114.39	-52.13	-51.47	0.24	-0.90	-13.00	-39.13
164.83	-59.32	-61.86	3.61	-1.07	-13.00	-46.32
236.61	-54.01	-57.95	5.33	-1.39	-13.00	-41.01
385.99	-59.30	-62.90	5.61	-2.01	-13.00	-46.30
1408.00	-62.48	-66.72	7.73	-3.49	-13.00	-49.48

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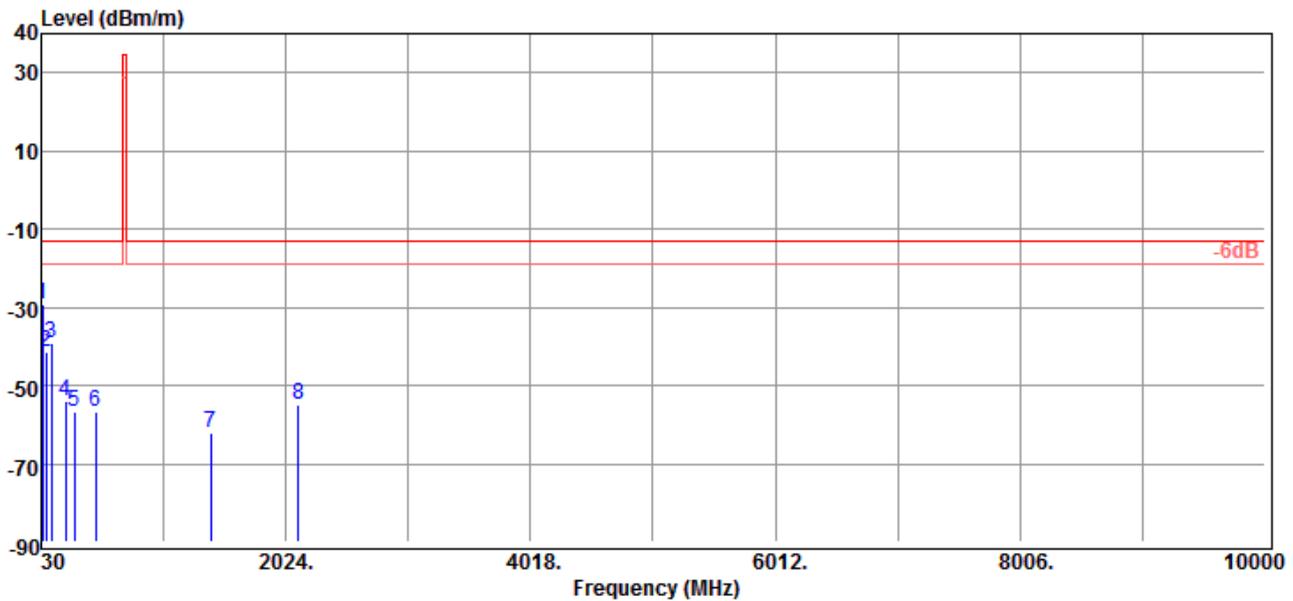
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f (886-2) 2298-0488

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Operation Mode	:LTEB12 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:707.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-29.49	-15.36	-13.57	-0.56	-13.00	-16.49
71.71	-41.22	-41.02	0.54	-0.74	-13.00	-28.22
111.48	-39.32	-38.45	0.03	-0.90	-13.00	-26.32
227.88	-54.05	-58.14	5.44	-1.35	-13.00	-41.05
300.63	-56.58	-60.81	5.85	-1.62	-13.00	-43.58
475.23	-56.56	-60.40	6.18	-2.34	-13.00	-43.56
1415.00	-62.19	-66.44	7.75	-3.50	-13.00	-49.19
2122.50	-54.88	-60.90	10.33	-4.31	-13.00	-41.88

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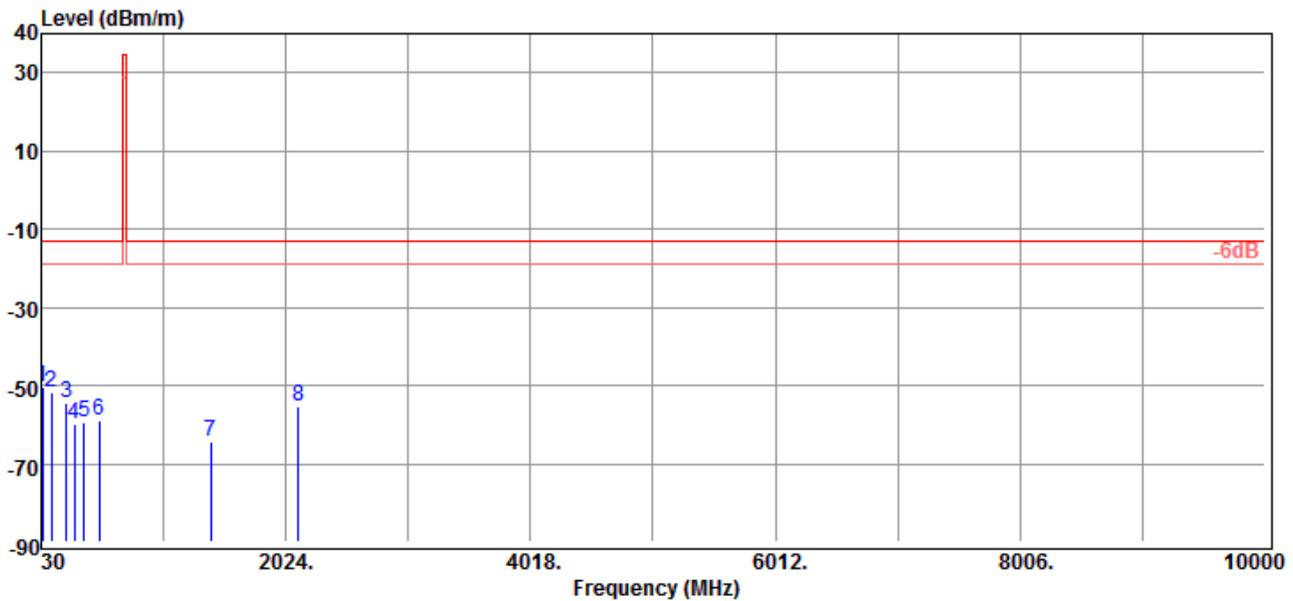
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f (886-2) 2298-0488

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Operation Mode	:LTEB12 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:707.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-50.57	-37.82	-12.16	-0.59	-13.00	-37.57
115.36	-51.94	-51.35	0.32	-0.91	-13.00	-38.94
237.58	-54.33	-58.26	5.32	-1.39	-13.00	-41.33
298.69	-59.89	-64.10	5.83	-1.62	-13.00	-46.89
378.23	-59.56	-63.21	5.65	-2.00	-13.00	-46.56
499.48	-59.19	-62.87	6.29	-2.61	-13.00	-46.19
1415.00	-64.17	-68.42	7.75	-3.50	-13.00	-51.17
2122.50	-55.30	-61.32	10.33	-4.31	-13.00	-42.30

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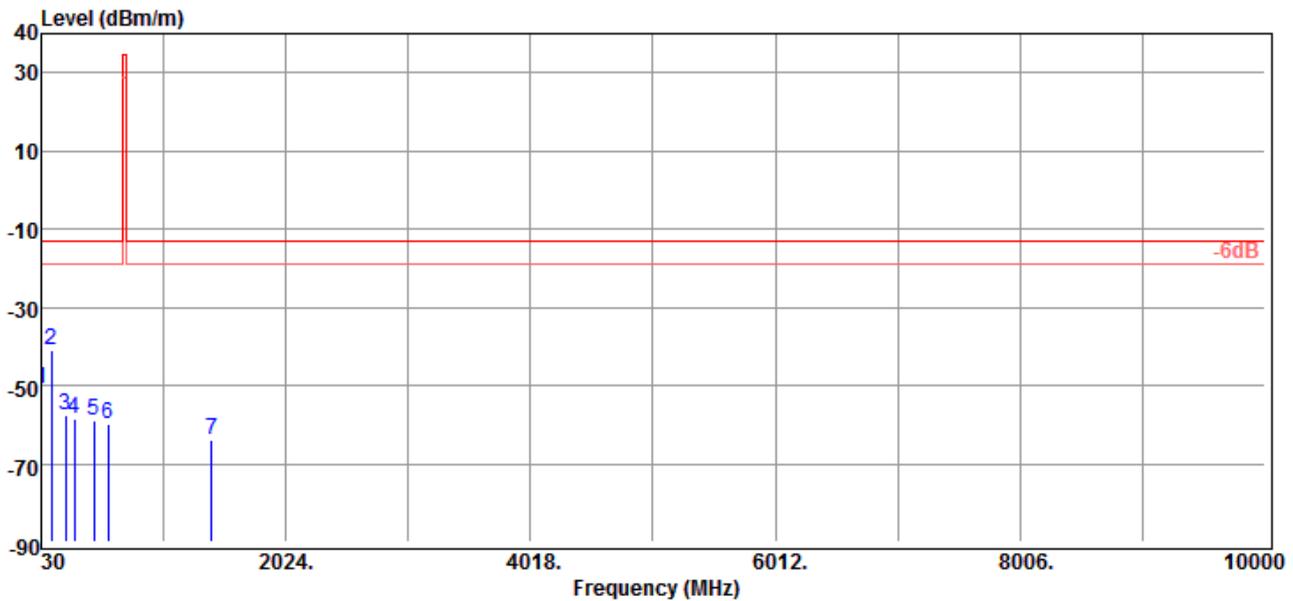
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Operation Mode	:LTEB12 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:711 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-50.90	-32.14	-18.29	-0.47	-13.00	-37.90
110.51	-41.08	-40.14	-0.05	-0.89	-13.00	-28.08
228.85	-57.53	-61.60	5.43	-1.36	-13.00	-44.53
300.63	-58.65	-62.88	5.85	-1.62	-13.00	-45.65
459.71	-58.77	-62.71	6.11	-2.17	-13.00	-45.77
575.14	-59.69	-63.91	6.45	-2.23	-13.00	-46.69
1422.00	-63.97	-68.24	7.78	-3.51	-13.00	-50.97

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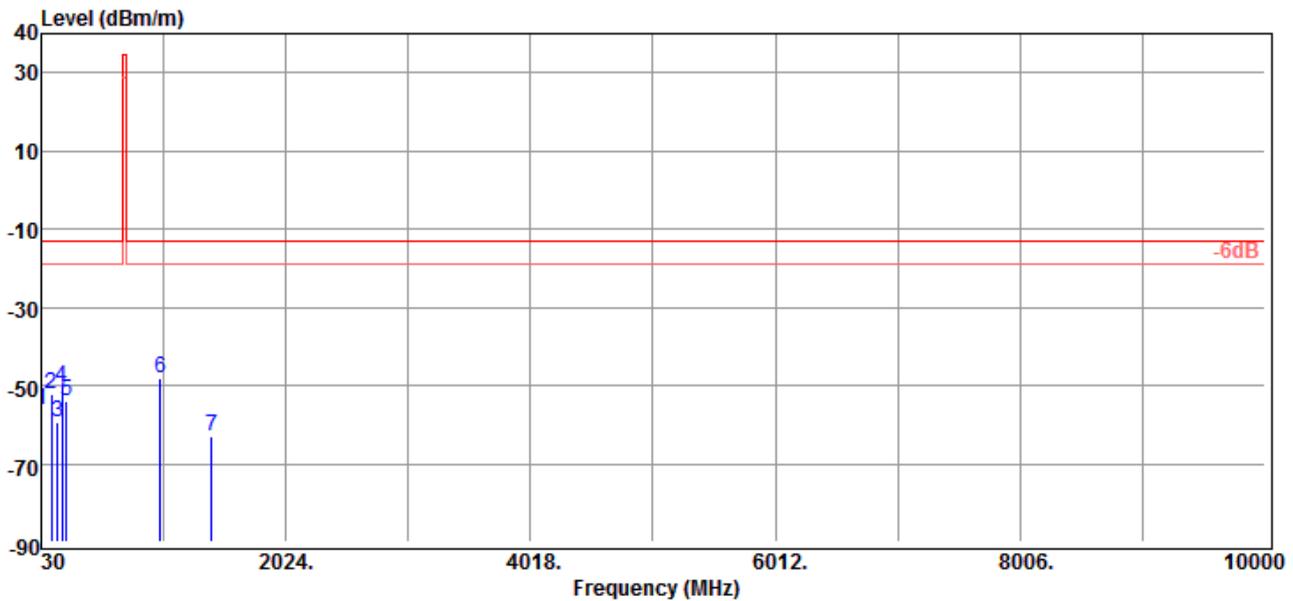
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Operation Mode	:LTEB12 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:711 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-56.43	-39.30	-16.63	-0.50	-13.00	-43.43
115.36	-51.99	-51.40	0.32	-0.91	-13.00	-38.99
164.83	-59.47	-62.01	3.61	-1.07	-13.00	-46.47
200.72	-50.33	-54.91	5.82	-1.24	-13.00	-37.33
237.58	-53.93	-57.86	5.32	-1.39	-13.00	-40.93
997.09	-47.98	-52.81	7.80	-2.97	-13.00	-34.98
1422.00	-63.22	-67.49	7.78	-3.51	-13.00	-50.22

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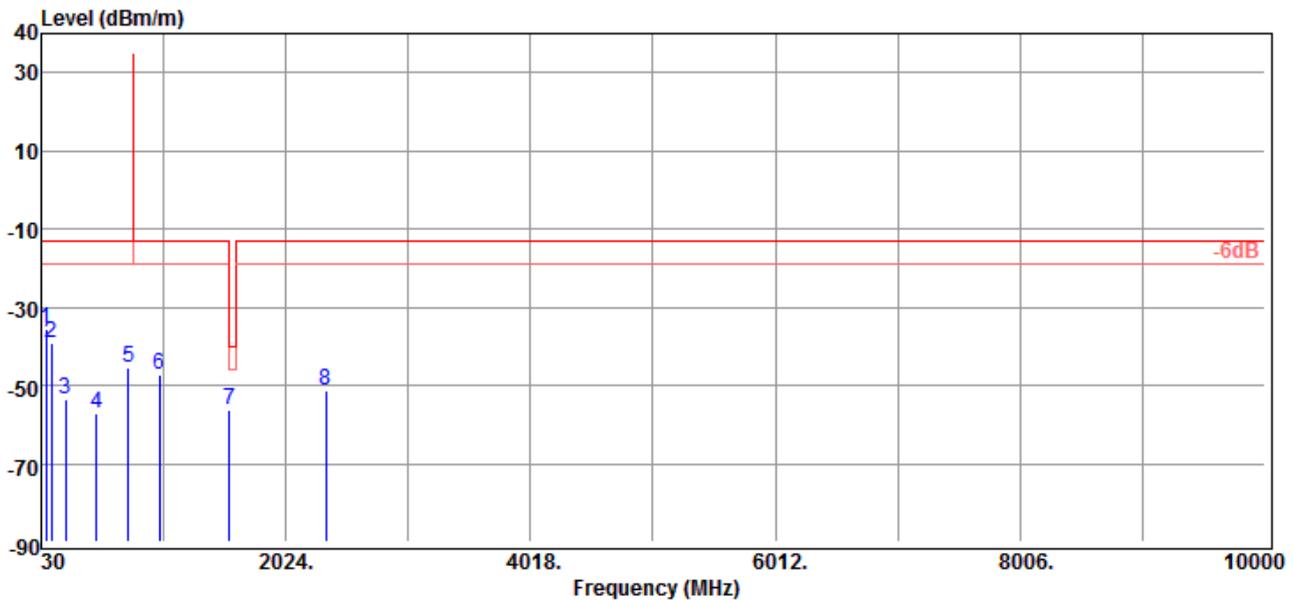
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### Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Mode	:LTEB13 10M QPSK RB	Test Date	:2018-12-10
	1,25		
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:782 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-35.60	-35.40	0.54	-0.74	-13.00	-22.60
111.48	-39.13	-38.26	0.03	-0.90	-13.00	-26.13
227.88	-53.59	-57.68	5.44	-1.35	-13.00	-40.59
482.99	-56.95	-60.74	6.22	-2.43	-13.00	-43.95
738.10	-45.27	-50.55	7.39	-2.11	-13.00	-32.27
996.12	-47.29	-52.12	7.80	-2.97	-13.00	-34.29
1564.00	-56.39	-61.07	8.40	-3.72	-40.00	-16.39
2346.00	-51.17	-57.37	10.56	-4.36	-13.00	-38.17

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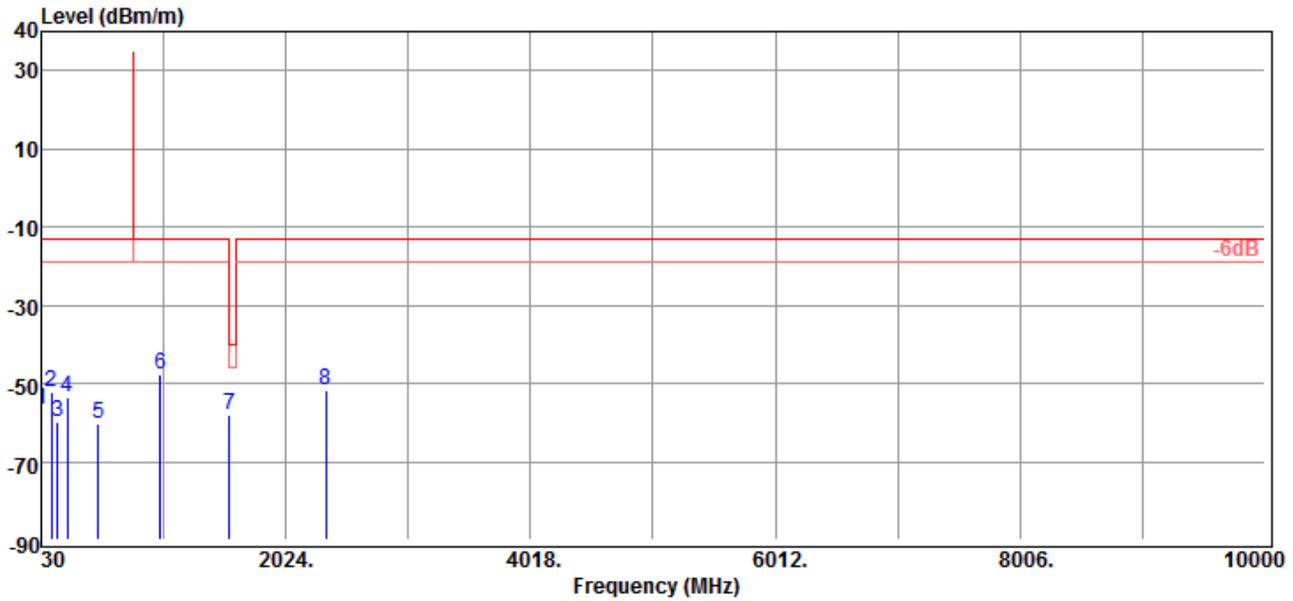
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Operation Mode	:LTEB13 10M QPSK RB	Test Date	:2018-12-10
	1,25		
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:782 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.64	-36.15	-20.05	-0.44	-13.00	-43.64
114.39	-52.11	-51.45	0.24	-0.90	-13.00	-39.11
165.80	-59.89	-62.49	3.68	-1.08	-13.00	-46.89
239.52	-53.70	-57.60	5.30	-1.40	-13.00	-40.70
498.51	-60.47	-64.15	6.28	-2.60	-13.00	-47.47
998.06	-47.63	-52.45	7.80	-2.98	-13.00	-34.63
1564.00	-57.84	-62.52	8.40	-3.72	-40.00	-17.84
2346.00	-51.61	-57.81	10.56	-4.36	-13.00	-38.61

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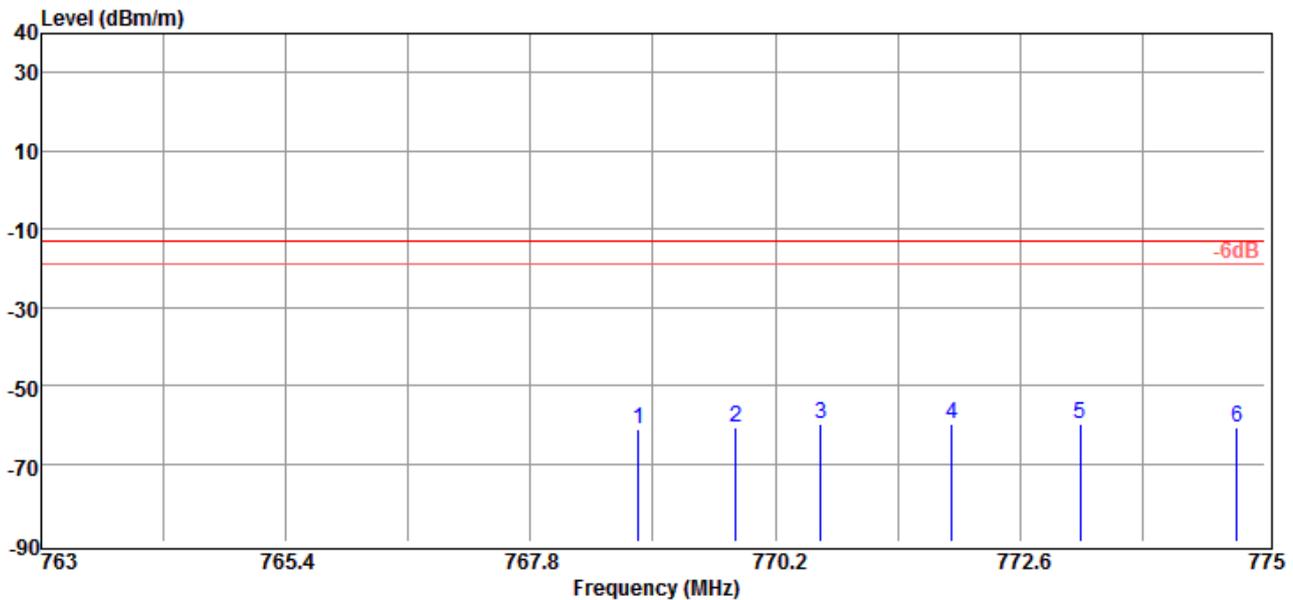
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### Radiated Spurious Emission Measurement Result: LTE-Band 13 (763~775MHz)

Operation Mode	:LTEB13 10M QPSK RB	Test Date	:2018-12-14
	1,25		
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:782 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
768.86	-61.29	-59.03	2.08	-4.34	-13.00	-48.29
769.82	-60.96	-58.69	2.08	-4.35	-13.00	-47.96
770.64	-59.76	-57.50	2.09	-4.35	-13.00	-46.76
771.93	-60.01	-57.74	2.09	-4.36	-13.00	-47.01
773.19	-59.97	-57.71	2.10	-4.36	-13.00	-46.97
774.72	-60.75	-58.48	2.10	-4.37	-13.00	-47.75

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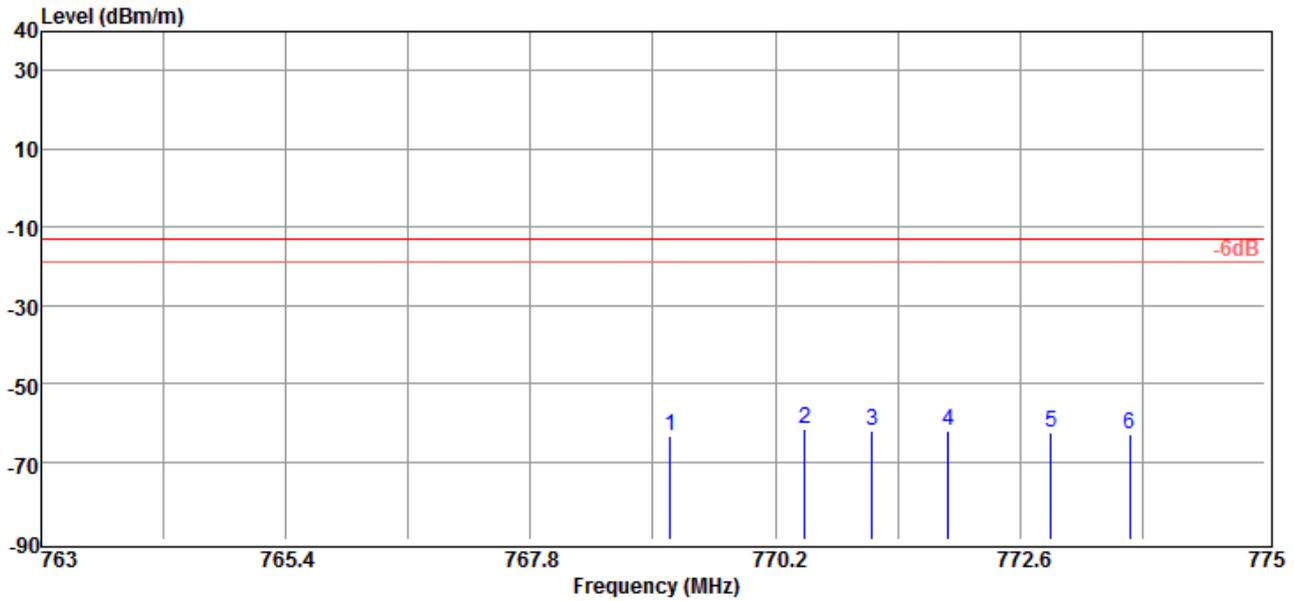
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Operation Mode	:LTEB13 10M QPSK RB	Test Date	:2018-12-14
	1,25		
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:782 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
769.17	-63.28	-61.02	2.08	-4.34	-13.00	-50.28
770.49	-61.68	-59.42	2.09	-4.35	-13.00	-48.68
771.15	-62.14	-59.88	2.09	-4.35	-13.00	-49.14
771.89	-62.16	-59.89	2.09	-4.36	-13.00	-49.16
772.90	-62.41	-60.14	2.09	-4.36	-13.00	-49.41
773.68	-63.00	-60.73	2.10	-4.37	-13.00	-50.00

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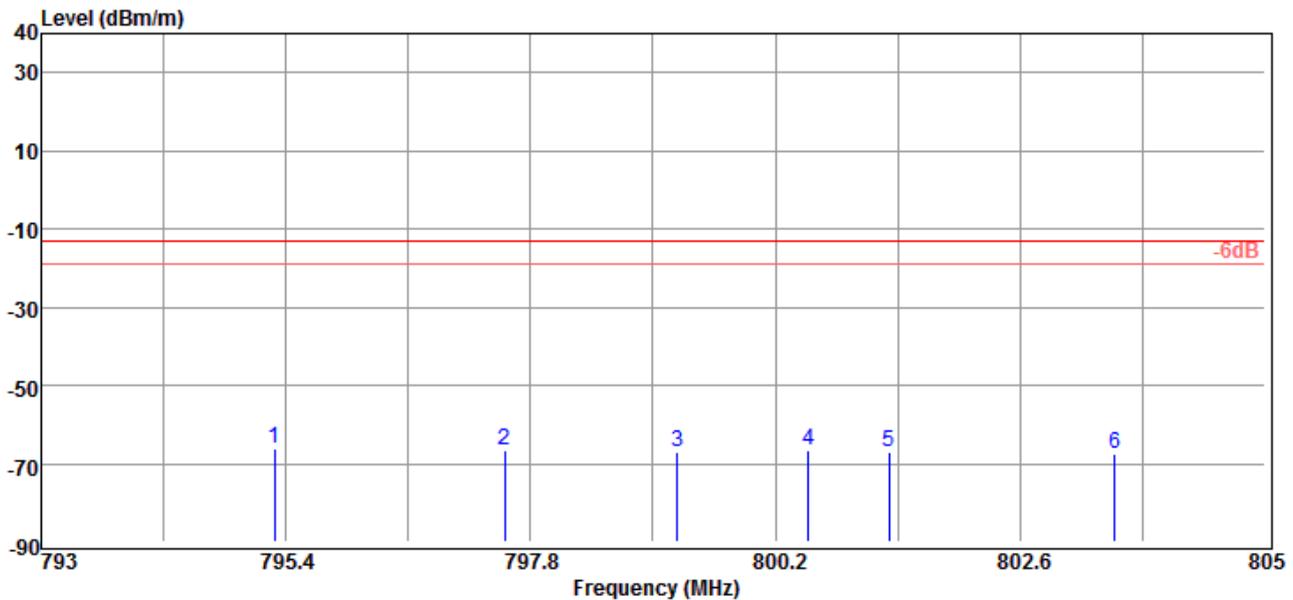
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### Radiated Spurious Emission Measurement Result: LTE-Band 13 (793~805MHz)

Operation Mode	:LTEB13 10M QPSK RB	Test Date	:2018-12-14
	1,25		
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:782 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
795.29	-66.10	-63.79	2.17	-4.48	-13.00	-53.10
797.55	-66.60	-64.28	2.17	-4.49	-13.00	-53.60
799.24	-66.91	-64.59	2.18	-4.50	-13.00	-53.91
800.52	-66.74	-64.42	2.18	-4.50	-13.00	-53.74
801.32	-67.20	-64.87	2.18	-4.51	-13.00	-54.20
803.52	-67.41	-65.05	2.17	-4.53	-13.00	-54.41

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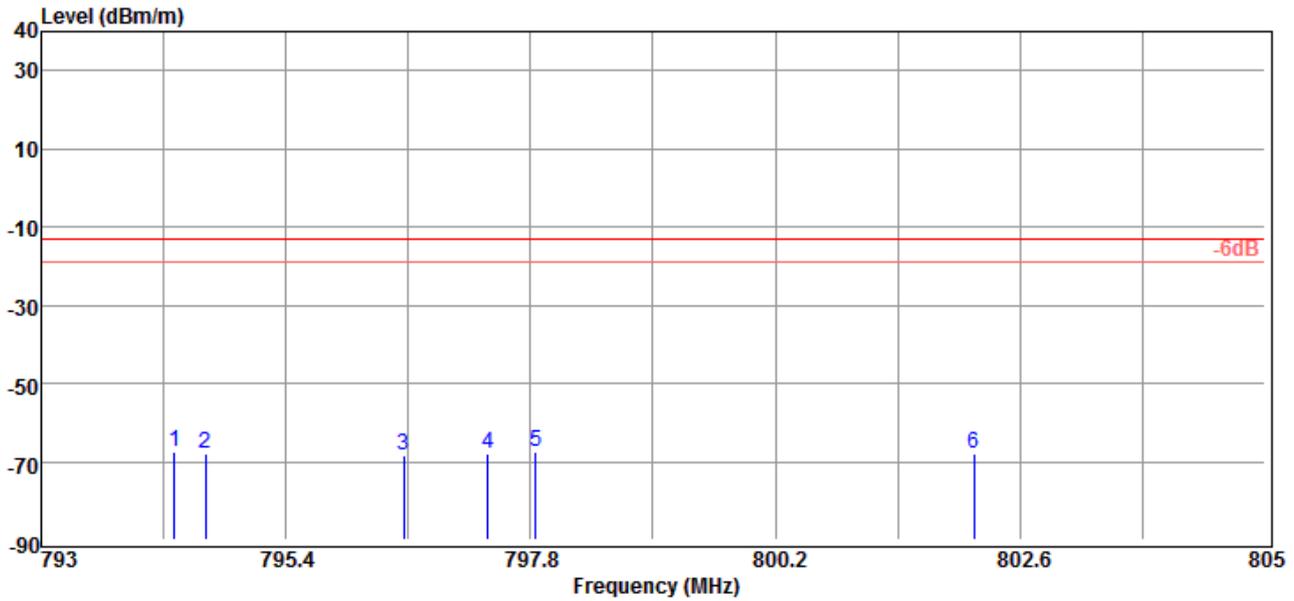
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Operation Mode	:LTEB13 10M QPSK RB	Test Date	:2018-12-14
	1,25		
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:782 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
794.31	-67.29	-64.98	2.16	-4.47	-13.00	-54.29
794.61	-68.11	-65.80	2.16	-4.47	-13.00	-55.11
796.55	-68.62	-66.31	2.17	-4.48	-13.00	-55.62
797.38	-68.17	-65.85	2.17	-4.49	-13.00	-55.17
797.85	-67.72	-65.40	2.17	-4.49	-13.00	-54.72
802.14	-68.05	-65.71	2.18	-4.52	-13.00	-55.05

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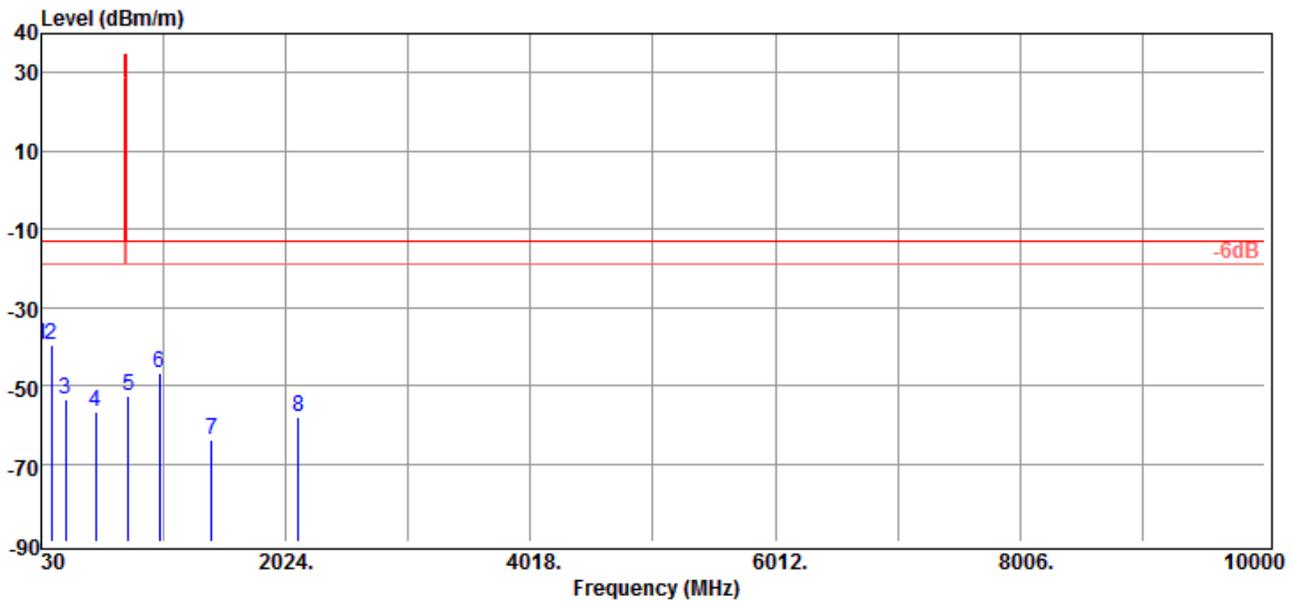
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### Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Operation Mode	:LTEB17 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:709 MHz	Engineer	:Enzo



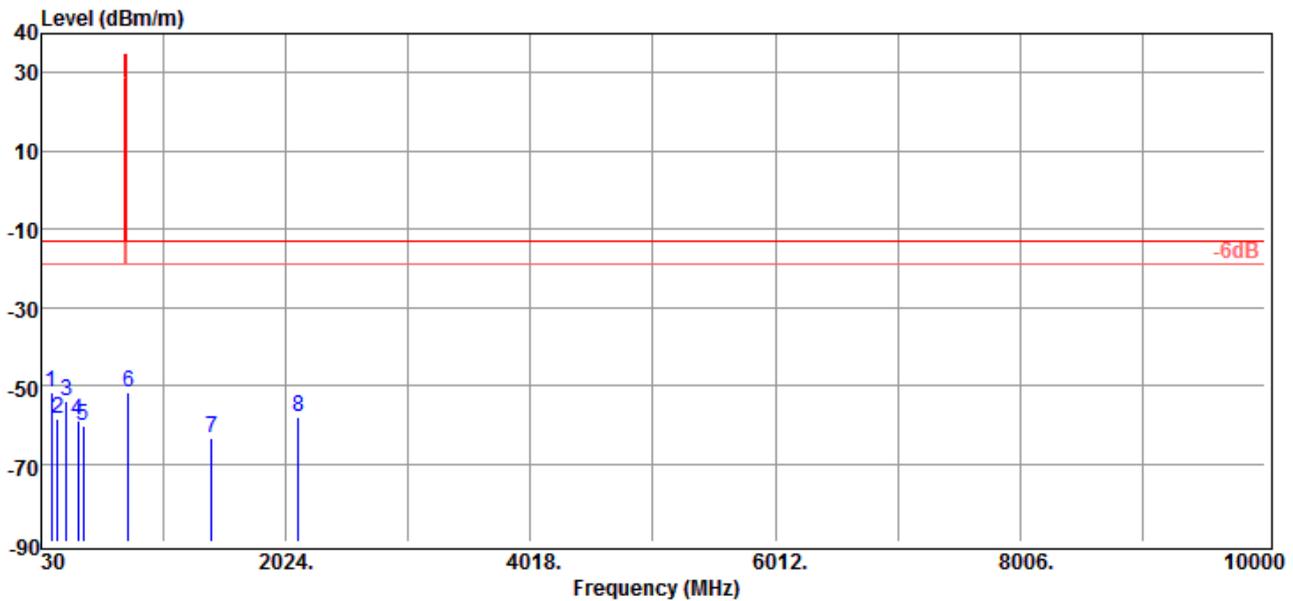
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-39.71	-22.58	-16.63	-0.50	-13.00	-26.71
111.48	-39.41	-38.54	0.03	-0.90	-13.00	-26.41
227.88	-53.71	-57.80	5.44	-1.35	-13.00	-40.71
477.17	-56.78	-60.61	6.19	-2.36	-13.00	-43.78
742.95	-52.87	-58.19	7.40	-2.08	-13.00	-39.87
996.12	-46.72	-51.55	7.80	-2.97	-13.00	-33.72
1418.00	-63.99	-68.26	7.77	-3.50	-13.00	-50.99
2127.00	-58.24	-64.27	10.34	-4.31	-13.00	-45.24

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Operation Mode	:LTEB17 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:709 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.39	-51.98	-51.32	0.24	-0.90	-13.00	-38.98
164.83	-58.52	-61.06	3.61	-1.07	-13.00	-45.52
236.61	-53.86	-57.80	5.33	-1.39	-13.00	-40.86
331.67	-59.13	-63.11	5.81	-1.83	-13.00	-46.13
372.41	-60.26	-63.95	5.68	-1.99	-13.00	-47.26
737.13	-51.78	-57.05	7.38	-2.11	-13.00	-38.78
1418.00	-63.63	-67.90	7.77	-3.50	-13.00	-50.63
2127.00	-57.92	-63.95	10.34	-4.31	-13.00	-44.92

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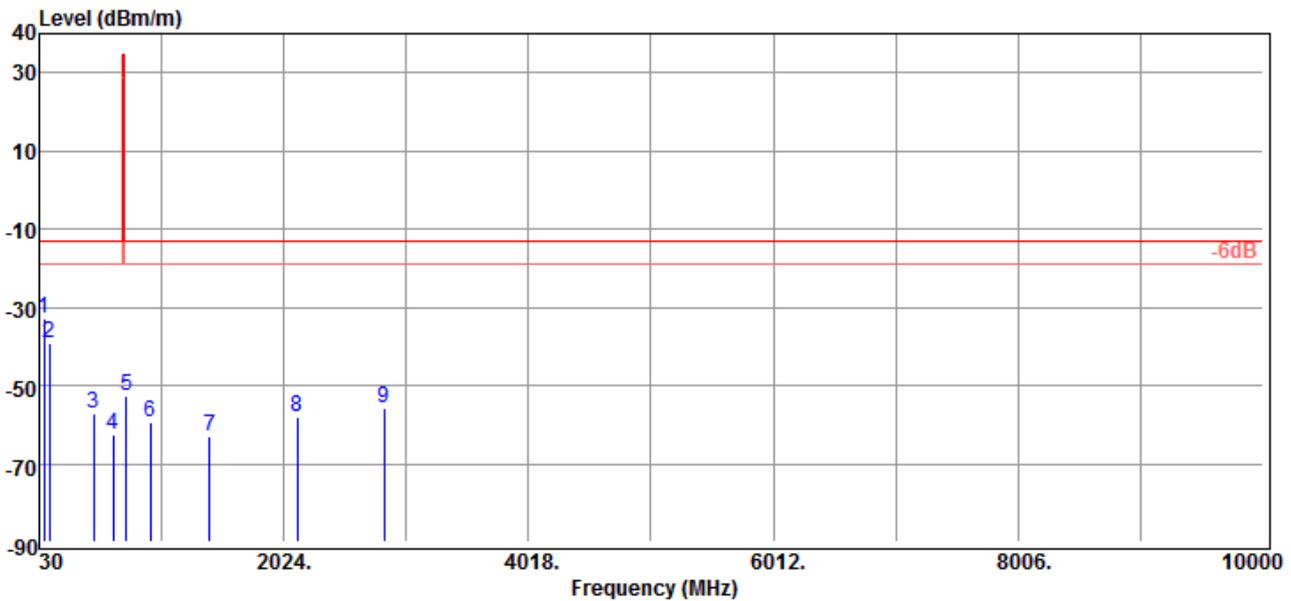
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Operation Mode	:LTEB17 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:710 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.77	-33.08	-32.83	0.48	-0.73	-13.00	-20.08
110.51	-39.25	-38.31	-0.05	-0.89	-13.00	-26.25
475.23	-57.05	-60.89	6.18	-2.34	-13.00	-44.05
633.34	-62.67	-67.08	6.81	-2.40	-13.00	-49.67
741.01	-52.51	-57.81	7.39	-2.09	-13.00	-39.51
936.95	-59.26	-64.25	7.64	-2.65	-13.00	-46.26
1420.00	-62.79	-67.06	7.78	-3.51	-13.00	-49.79
2130.00	-58.13	-64.16	10.34	-4.31	-13.00	-45.13
2840.00	-55.77	-62.38	11.12	-4.51	-13.00	-42.77

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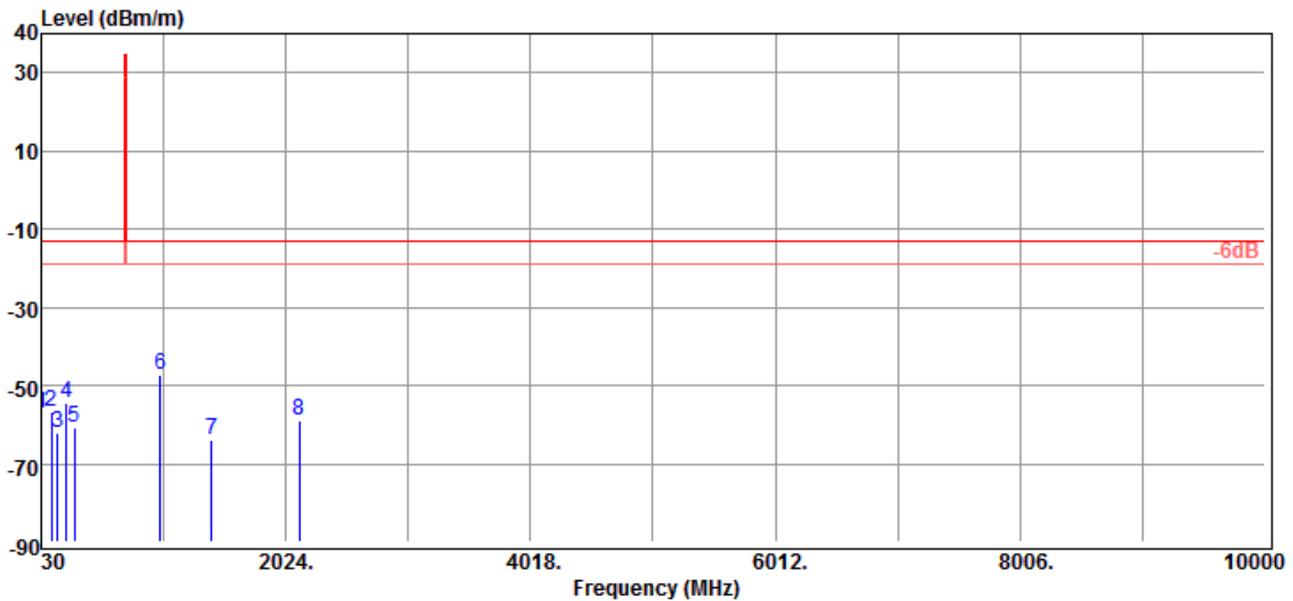
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Operation Mode	:LTEB17 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:710 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.37	-36.88	-20.05	-0.44	-13.00	-44.37
116.33	-56.65	-56.13	0.39	-0.91	-13.00	-43.65
164.83	-62.33	-64.87	3.61	-1.07	-13.00	-49.33
237.58	-54.42	-58.35	5.32	-1.39	-13.00	-41.42
297.72	-60.93	-65.14	5.82	-1.61	-13.00	-47.93
998.06	-47.16	-51.98	7.80	-2.98	-13.00	-34.16
1420.00	-63.97	-68.24	7.78	-3.51	-13.00	-50.97
2130.00	-58.76	-64.79	10.34	-4.31	-13.00	-45.76

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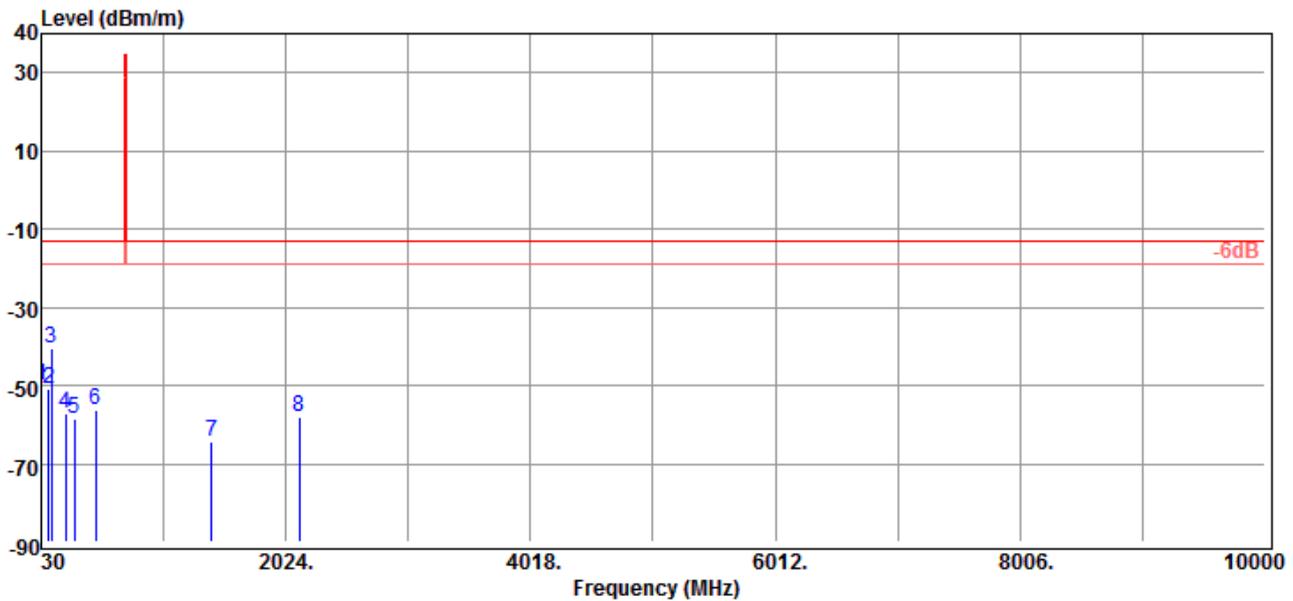
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Operation Mode	:LTEB17 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:711 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-50.17	-32.24	-17.44	-0.49	-13.00	-37.17
89.17	-51.01	-50.24	0.04	-0.81	-13.00	-38.01
111.48	-40.46	-39.59	0.03	-0.90	-13.00	-27.46
230.79	-57.27	-61.32	5.41	-1.36	-13.00	-44.27
300.63	-58.62	-62.85	5.85	-1.62	-13.00	-45.62
470.38	-56.43	-60.30	6.16	-2.29	-13.00	-43.43
1422.00	-64.43	-68.70	7.78	-3.51	-13.00	-51.43
2133.00	-57.92	-63.95	10.34	-4.31	-13.00	-44.92

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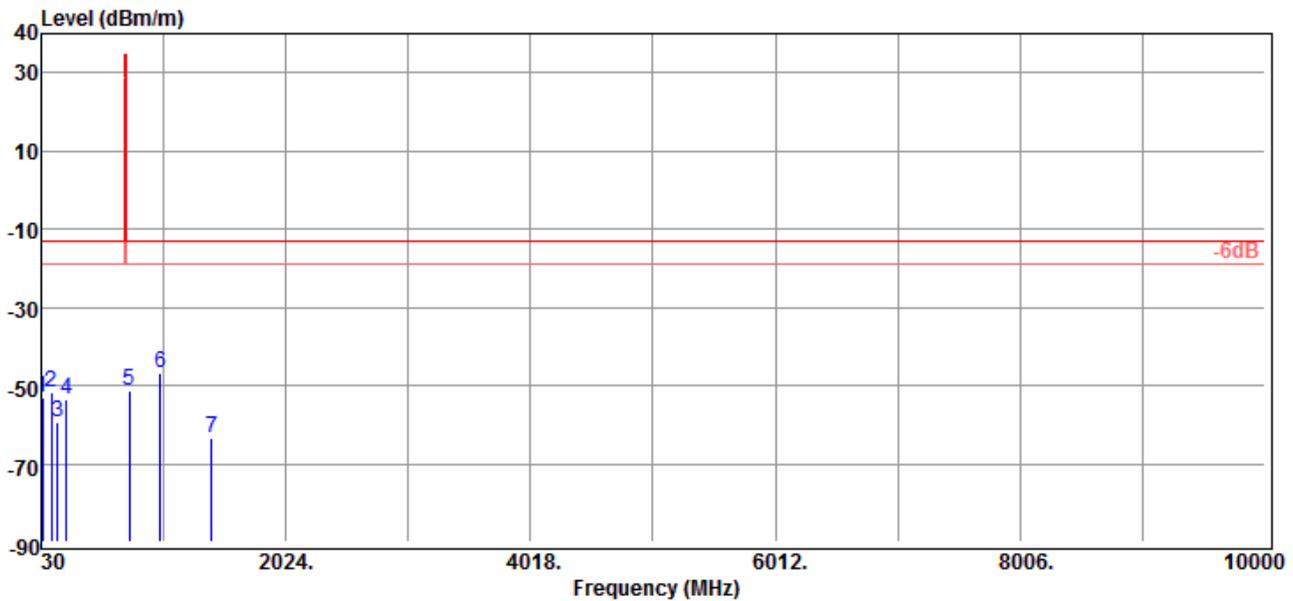
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Operation Mode	:LTEB17 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:711 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
39.70	-53.23	-40.48	-12.16	-0.59	-13.00	-40.23
116.33	-51.89	-51.37	0.39	-0.91	-13.00	-38.89
165.80	-59.42	-62.02	3.68	-1.08	-13.00	-46.42
237.58	-53.66	-57.59	5.32	-1.39	-13.00	-40.66
744.89	-51.39	-56.72	7.40	-2.07	-13.00	-38.39
997.09	-46.95	-51.78	7.80	-2.97	-13.00	-33.95
1422.00	-63.43	-67.70	7.78	-3.51	-13.00	-50.43

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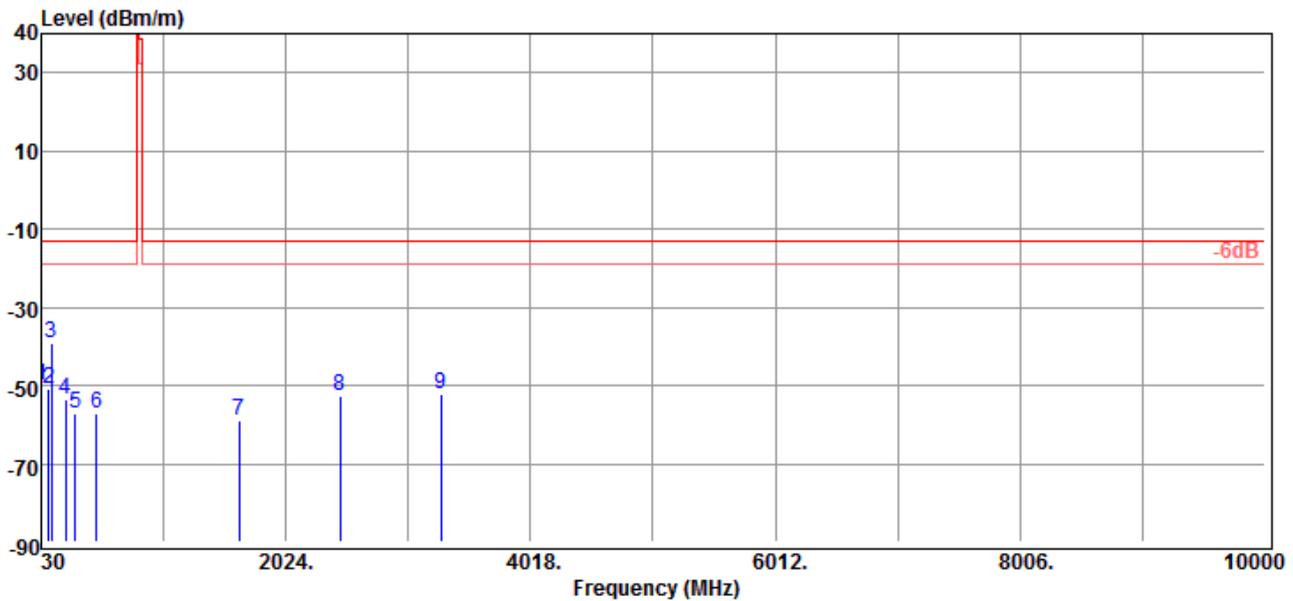
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### Radiated Spurious Emission Measurement Result: LTE-Band 26 (The Worst Case)

Operation Mode	:LTEB26 15M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:821.5 MHz	Engineer	:Enzo



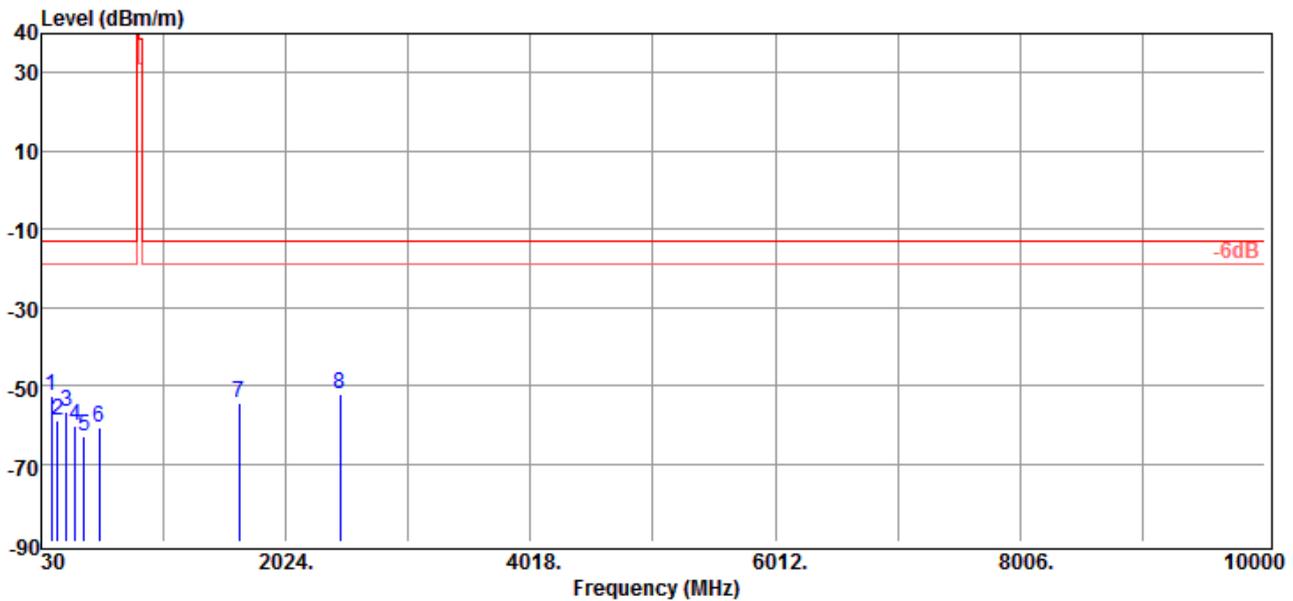
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-50.02	-31.26	-18.29	-0.47	-13.00	-37.02
90.14	-50.84	-50.01	-0.02	-0.81	-13.00	-37.84
111.48	-39.28	-38.41	0.03	-0.90	-13.00	-26.28
226.91	-53.47	-57.58	5.46	-1.35	-13.00	-40.47
305.48	-57.02	-61.20	5.84	-1.66	-13.00	-44.02
478.14	-57.03	-60.85	6.20	-2.38	-13.00	-44.03
1643.00	-58.75	-63.69	8.76	-3.82	-13.00	-45.75
2464.50	-52.82	-59.11	10.67	-4.38	-13.00	-39.82
3286.00	-52.03	-57.96	11.89	-5.96	-13.00	-39.03

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Operation Mode	:LTEB26 15M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:821.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
115.36	-52.83	-52.24	0.32	-0.91	-13.00	-39.83
164.83	-58.99	-61.53	3.61	-1.07	-13.00	-45.99
237.58	-56.91	-60.84	5.32	-1.39	-13.00	-43.91
304.51	-60.29	-64.48	5.84	-1.65	-13.00	-47.29
376.29	-63.09	-66.75	5.66	-2.00	-13.00	-50.09
500.45	-60.94	-64.61	6.29	-2.62	-13.00	-47.94
1643.00	-54.35	-59.29	8.76	-3.82	-13.00	-41.35
2464.50	-52.41	-58.70	10.67	-4.38	-13.00	-39.41

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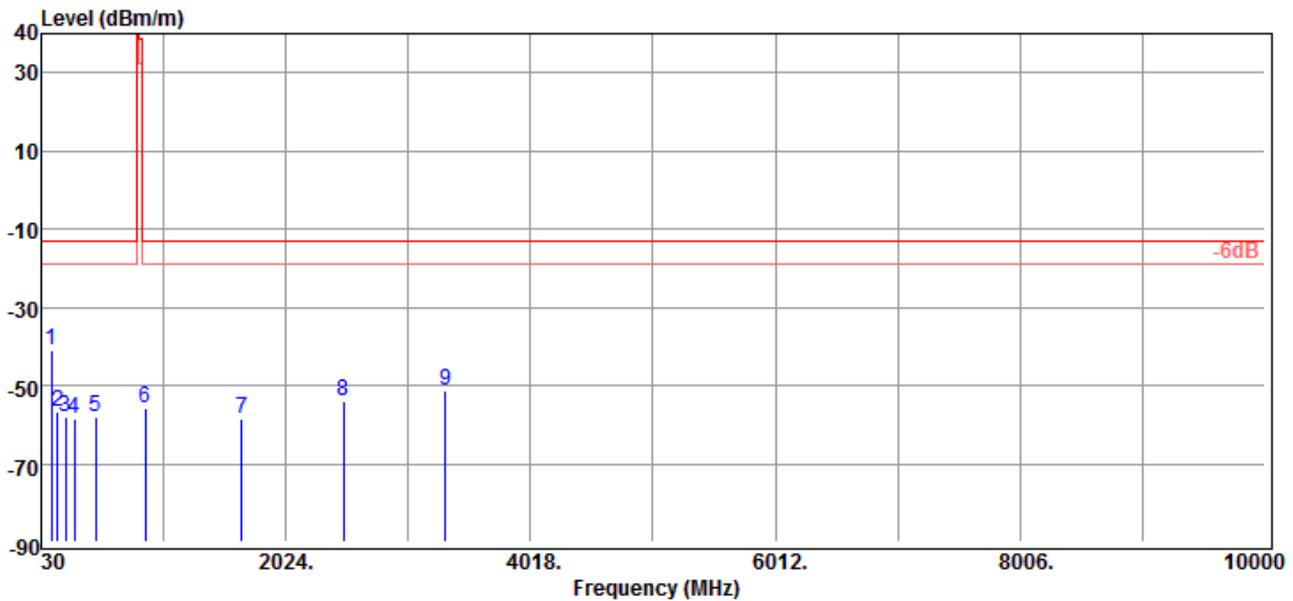
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Operation Mode	:LTEB26 15M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:831.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-41.10	-40.23	0.03	-0.90	-13.00	-28.10
164.83	-56.77	-59.31	3.61	-1.07	-13.00	-43.77
226.91	-58.04	-62.15	5.46	-1.35	-13.00	-45.04
299.66	-58.62	-62.85	5.85	-1.62	-13.00	-45.62
476.20	-58.23	-62.07	6.19	-2.35	-13.00	-45.23
877.78	-55.75	-60.90	7.55	-2.40	-13.00	-42.75
1663.00	-58.39	-63.39	8.85	-3.85	-13.00	-45.39
2494.50	-54.22	-60.53	10.70	-4.39	-13.00	-41.22
3326.00	-51.19	-57.00	11.97	-6.16	-13.00	-38.19

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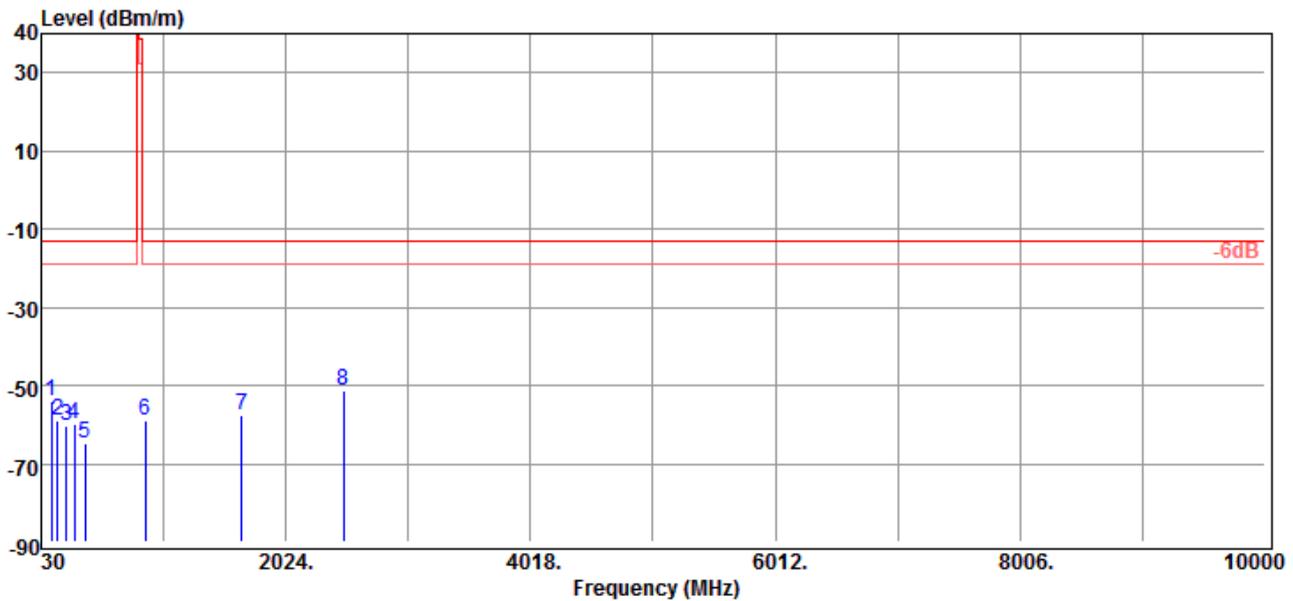
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Operation Mode	:LTEB26 15M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:831.5 MHz	Engineer	:Enzo



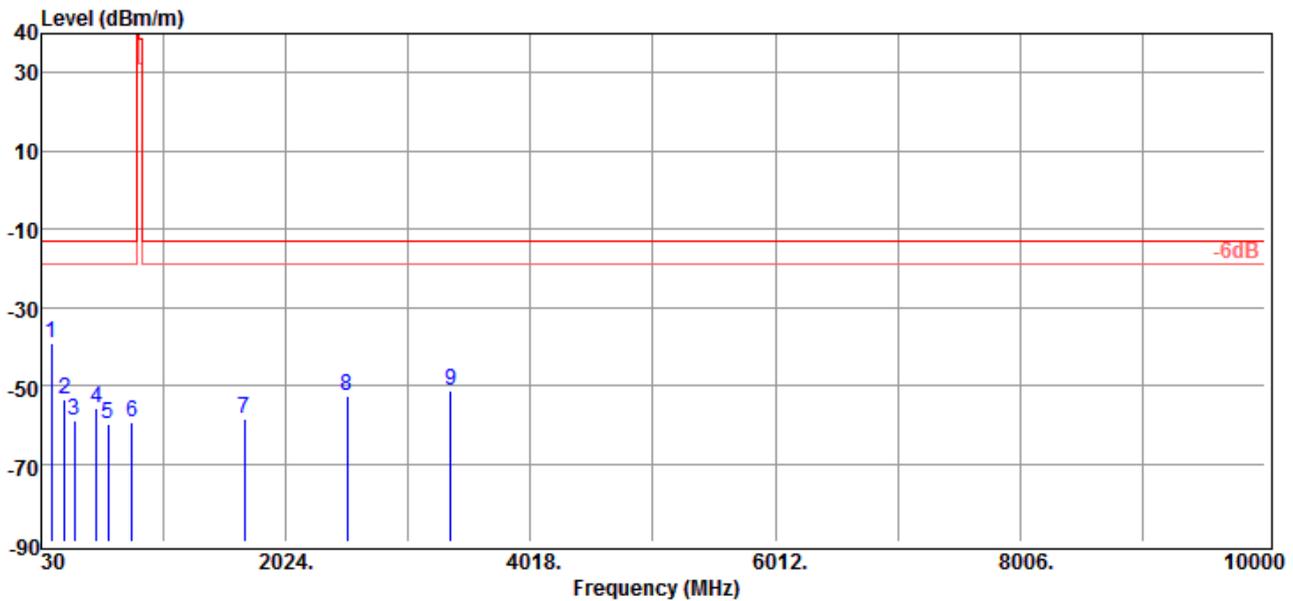
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
115.36	-54.15	-53.56	0.32	-0.91	-13.00	-41.15
164.83	-58.82	-61.36	3.61	-1.07	-13.00	-45.82
233.70	-60.10	-64.10	5.37	-1.37	-13.00	-47.10
299.66	-59.95	-64.18	5.85	-1.62	-13.00	-46.95
388.90	-64.62	-68.20	5.60	-2.02	-13.00	-51.62
875.84	-59.15	-64.30	7.55	-2.40	-13.00	-46.15
1663.00	-57.77	-62.77	8.85	-3.85	-13.00	-44.77
2494.50	-51.09	-57.40	10.70	-4.39	-13.00	-38.09

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Operation Mode	:LTEB26 15M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:841.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-39.22	-38.35	0.03	-0.90	-13.00	-26.22
224.00	-53.65	-57.80	5.49	-1.34	-13.00	-40.65
297.72	-59.12	-63.33	5.82	-1.61	-13.00	-46.12
479.11	-55.86	-59.67	6.20	-2.39	-13.00	-42.86
577.08	-59.64	-63.88	6.47	-2.23	-13.00	-46.64
772.05	-59.32	-64.58	7.48	-2.22	-13.00	-46.32
1683.00	-58.49	-63.56	8.94	-3.87	-13.00	-45.49
2524.50	-52.63	-58.96	10.73	-4.40	-13.00	-39.63
3366.00	-51.11	-56.81	12.05	-6.35	-13.00	-38.11

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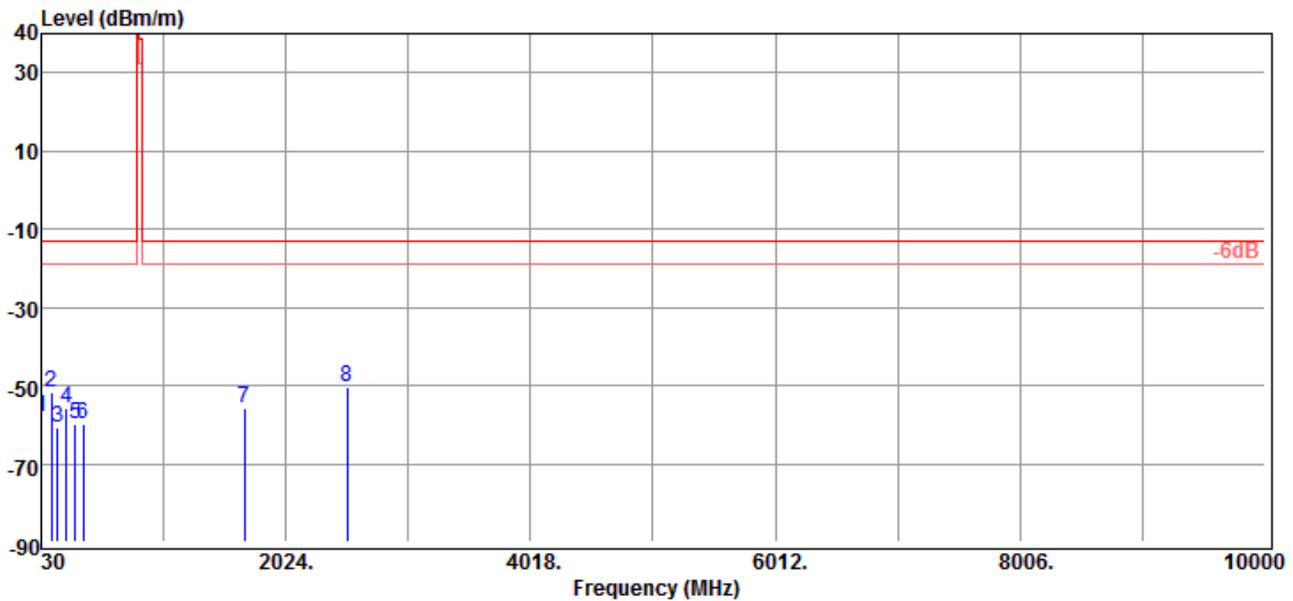
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Operation Mode	:LTEB26 15M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:841.5 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-58.04	-40.11	-17.44	-0.49	-13.00	-45.04
115.36	-51.85	-51.26	0.32	-0.91	-13.00	-38.85
166.77	-60.80	-63.47	3.75	-1.08	-13.00	-47.80
232.73	-55.68	-59.69	5.38	-1.37	-13.00	-42.68
305.48	-59.98	-64.16	5.84	-1.66	-13.00	-46.98
370.47	-60.08	-63.78	5.69	-1.99	-13.00	-47.08
1683.00	-55.63	-60.70	8.94	-3.87	-13.00	-42.63
2524.50	-50.20	-56.53	10.73	-4.40	-13.00	-37.20

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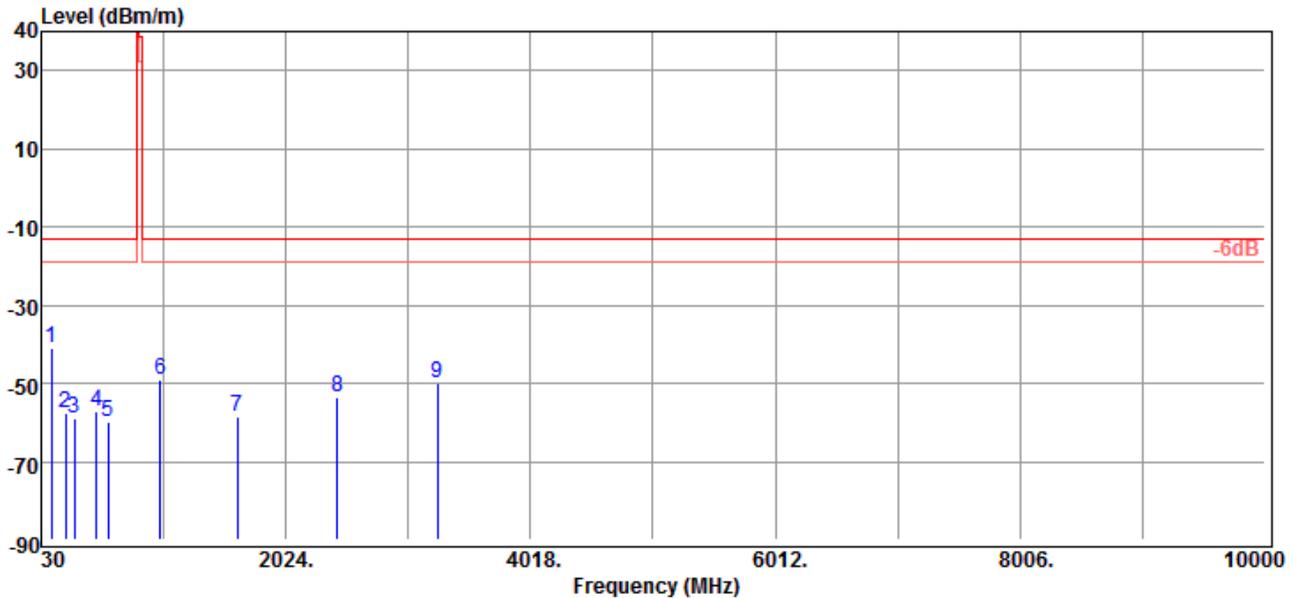
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### Radiated Spurious Emission Measurement Result: LTE-Band 26 for Part 90S (The Worst Case)

Operation Mode	:Part90 1.4M QPSK RB 3.2	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:814.7 MHz	Engineer	:Enzo



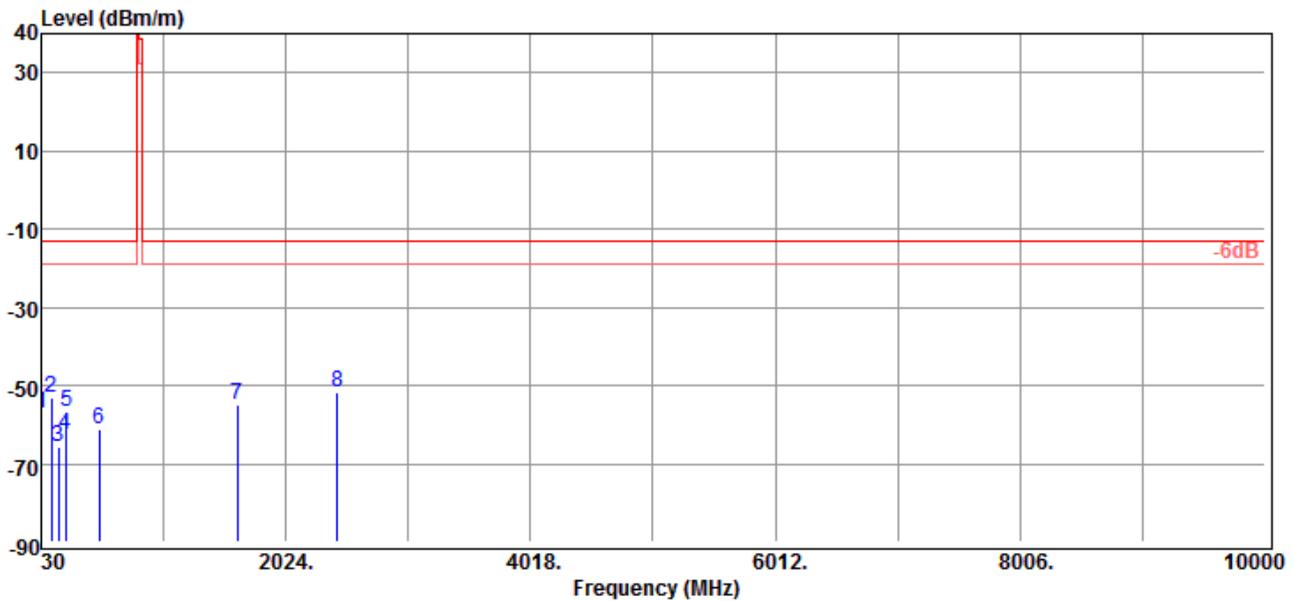
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.51	-40.81	-39.87	-0.05	-0.89	-13.00	-27.81
227.88	-57.46	-61.55	5.44	-1.35	-13.00	-44.46
297.72	-58.92	-63.13	5.82	-1.61	-13.00	-45.92
482.99	-57.37	-61.16	6.22	-2.43	-13.00	-44.37
576.11	-59.82	-64.05	6.46	-2.23	-13.00	-46.82
998.06	-48.90	-53.72	7.80	-2.98	-13.00	-35.90
1629.40	-58.31	-63.20	8.70	-3.81	-13.00	-45.31
2444.10	-53.72	-59.99	10.65	-4.38	-13.00	-40.72
3258.80	-50.08	-56.09	11.84	-5.83	-13.00	-37.08

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Operation Mode	:Part90 1.4M QPSK RB 3.2	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:814.7 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.38	-36.89	-20.05	-0.44	-13.00	-44.38
116.33	-53.16	-52.64	0.39	-0.91	-13.00	-40.16
171.62	-65.77	-68.74	4.07	-1.10	-13.00	-52.77
225.94	-62.41	-66.54	5.47	-1.34	-13.00	-49.41
236.61	-56.90	-60.84	5.33	-1.39	-13.00	-43.90
499.48	-61.11	-64.79	6.29	-2.61	-13.00	-48.11
1629.40	-54.93	-59.82	8.70	-3.81	-13.00	-41.93
2444.10	-51.57	-57.84	10.65	-4.38	-13.00	-38.57

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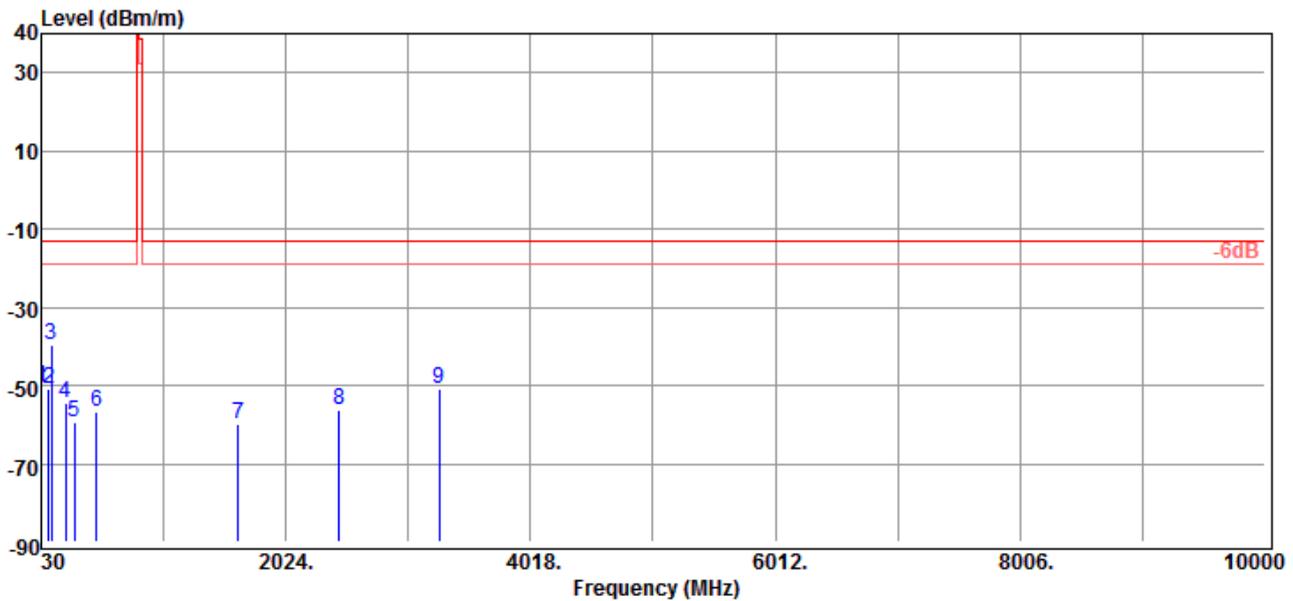
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Operation Mode	:Part90 1.4M QPSK RB 3.2	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:819 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-50.26	-32.33	-17.44	-0.49	-13.00	-37.26
90.14	-50.97	-50.14	-0.02	-0.81	-13.00	-37.97
111.48	-39.41	-38.54	0.03	-0.90	-13.00	-26.41
228.85	-54.50	-58.57	5.43	-1.36	-13.00	-41.50
299.66	-59.27	-63.50	5.85	-1.62	-13.00	-46.27
478.14	-56.79	-60.61	6.20	-2.38	-13.00	-43.79
1638.00	-60.04	-64.96	8.74	-3.82	-13.00	-47.04
2457.00	-56.07	-62.35	10.66	-4.38	-13.00	-43.07
3276.00	-50.85	-56.81	11.87	-5.91	-13.00	-37.85

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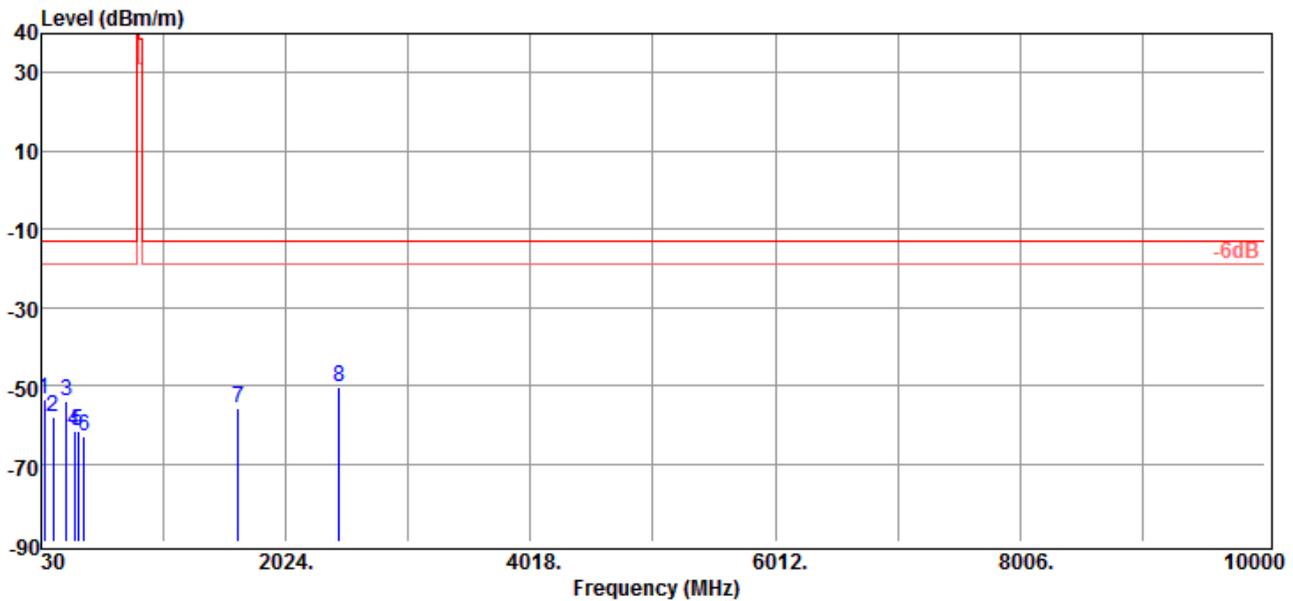
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Operation Mode	:Part90 1.4M QPSK RB 3.2	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:819 MHz	Engineer	:Enzo



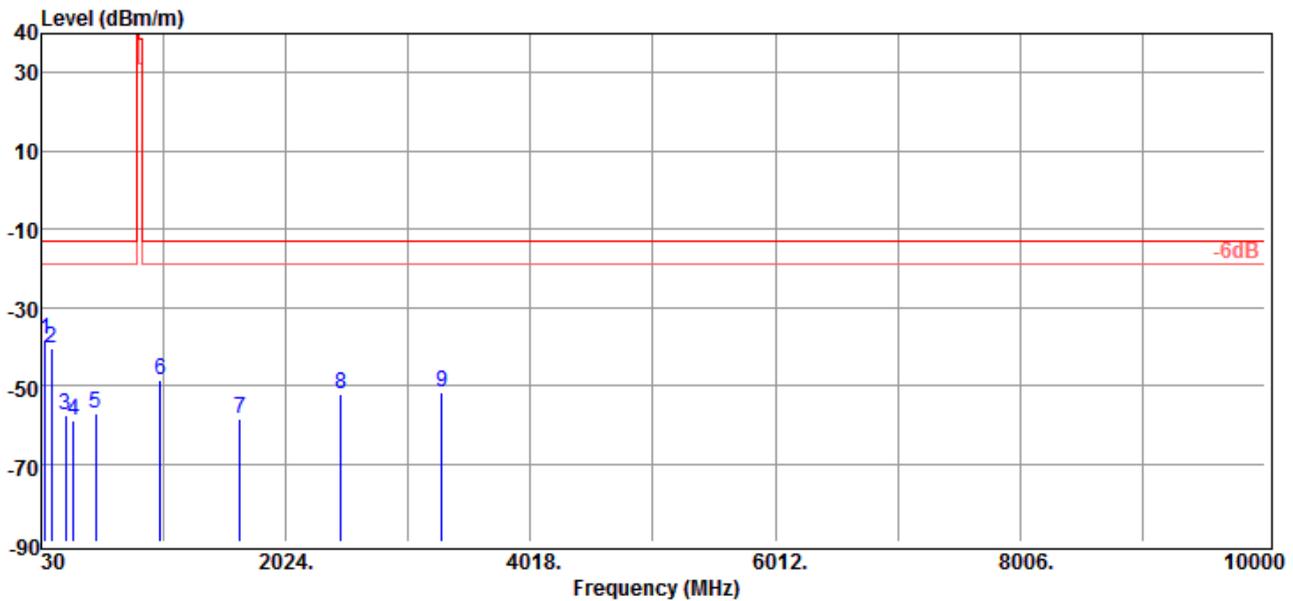
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.16	-53.75	-51.24	-1.86	-0.65	-13.00	-40.75
124.09	-58.26	-58.26	0.93	-0.93	-13.00	-45.26
238.55	-54.15	-58.07	5.31	-1.39	-13.00	-41.15
298.69	-61.83	-66.04	5.83	-1.62	-13.00	-48.83
332.64	-61.72	-65.69	5.81	-1.84	-13.00	-48.72
378.23	-63.05	-66.70	5.65	-2.00	-13.00	-50.05
1638.00	-55.73	-60.65	8.74	-3.82	-13.00	-42.73
2457.00	-50.51	-56.79	10.66	-4.38	-13.00	-37.51

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Operation Mode	:Part90 1.4M QPSK RB 3.2	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:823.3 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-38.35	-37.63	-0.02	-0.70	-13.00	-25.35
111.48	-40.47	-39.60	0.03	-0.90	-13.00	-27.47
229.82	-57.51	-61.57	5.42	-1.36	-13.00	-44.51
295.78	-58.94	-63.14	5.80	-1.60	-13.00	-45.94
470.38	-57.38	-61.25	6.16	-2.29	-13.00	-44.38
997.09	-48.54	-53.37	7.80	-2.97	-13.00	-35.54
1646.60	-58.49	-63.44	8.78	-3.83	-13.00	-45.49
2469.90	-52.43	-58.72	10.67	-4.38	-13.00	-39.43
3293.20	-51.99	-57.89	11.90	-6.00	-13.00	-38.99

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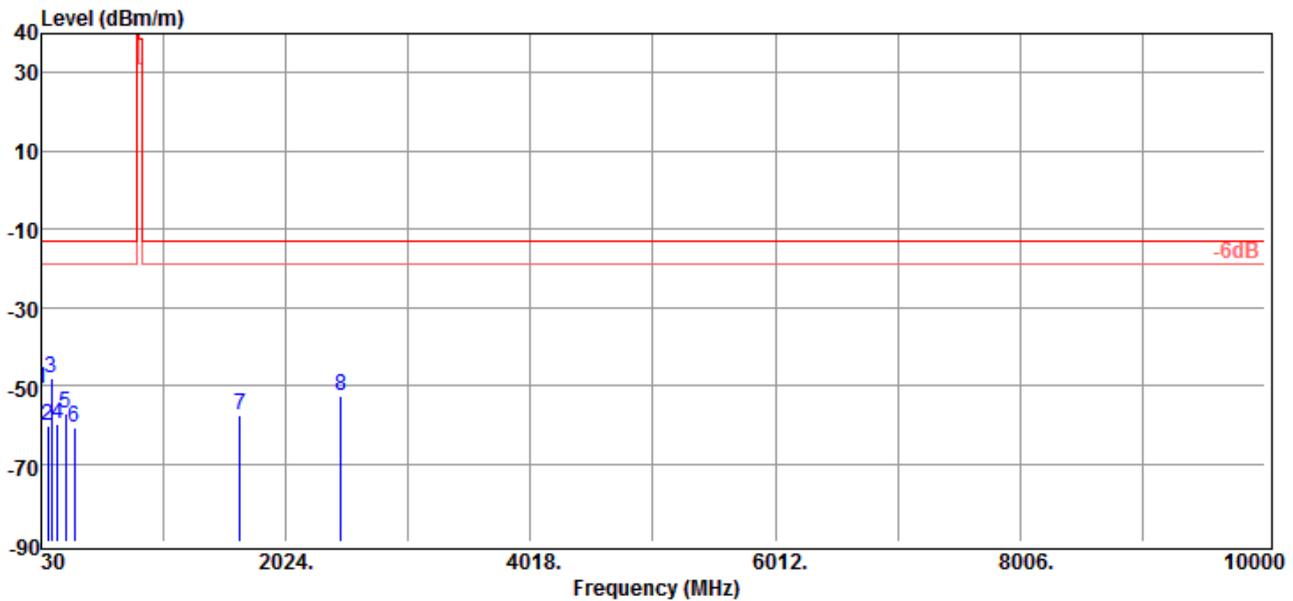
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Operation Mode	:Part90 1.4M QPSK RB 3.2	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:823.3 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-50.86	-33.73	-16.63	-0.50	-13.00	-37.86
87.23	-60.42	-59.79	0.17	-0.80	-13.00	-47.42
111.48	-48.03	-47.16	0.03	-0.90	-13.00	-35.03
164.83	-59.82	-62.36	3.61	-1.07	-13.00	-46.82
229.82	-57.37	-61.43	5.42	-1.36	-13.00	-44.37
299.66	-60.67	-64.90	5.85	-1.62	-13.00	-47.67
1646.60	-57.68	-62.63	8.78	-3.83	-13.00	-44.68
2469.90	-52.49	-58.78	10.67	-4.38	-13.00	-39.49

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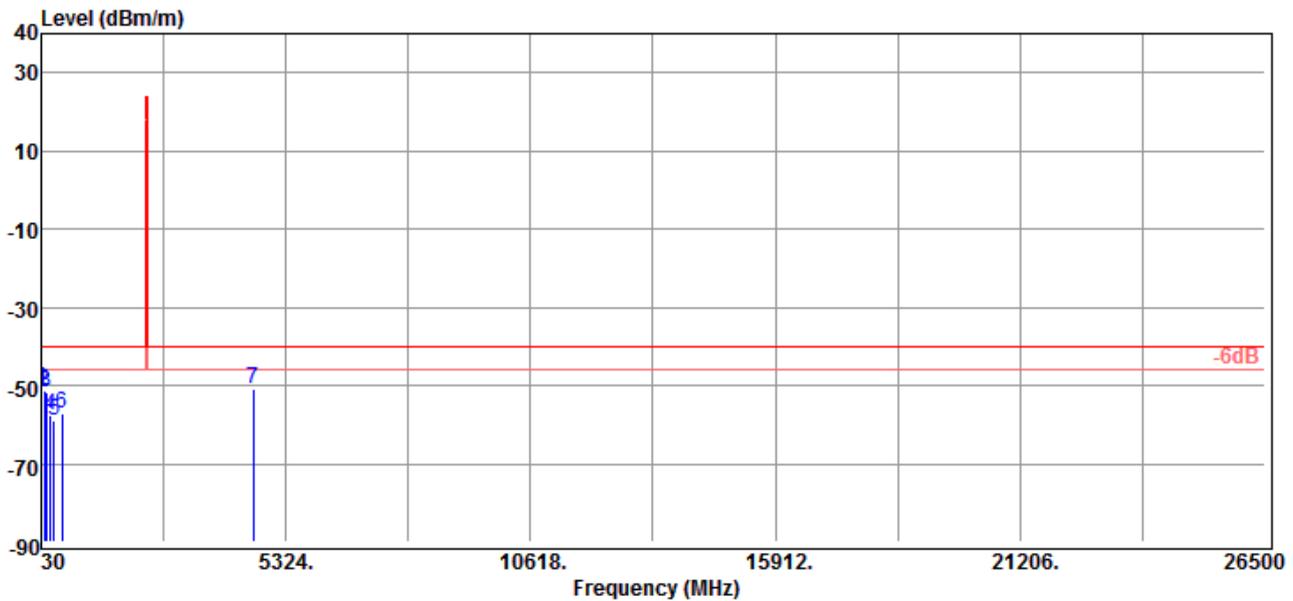
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### Radiated Spurious Emission Measurement Result: LTE-Band 30 (The Worst Case)

Operation Mode	:LTEB30 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2310 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-50.86	-32.93	-17.44	-0.49	-40.00	-10.86
90.14	-51.30	-50.47	-0.02	-0.81	-40.00	-11.30
128.94	-51.92	-52.23	1.25	-0.94	-40.00	-11.92
227.88	-57.68	-61.77	5.44	-1.35	-40.00	-17.68
299.66	-58.96	-63.19	5.85	-1.62	-40.00	-18.96
475.23	-57.37	-61.21	6.18	-2.34	-40.00	-17.37
4620.00	-50.81	-56.83	12.58	-6.56	-40.00	-10.81

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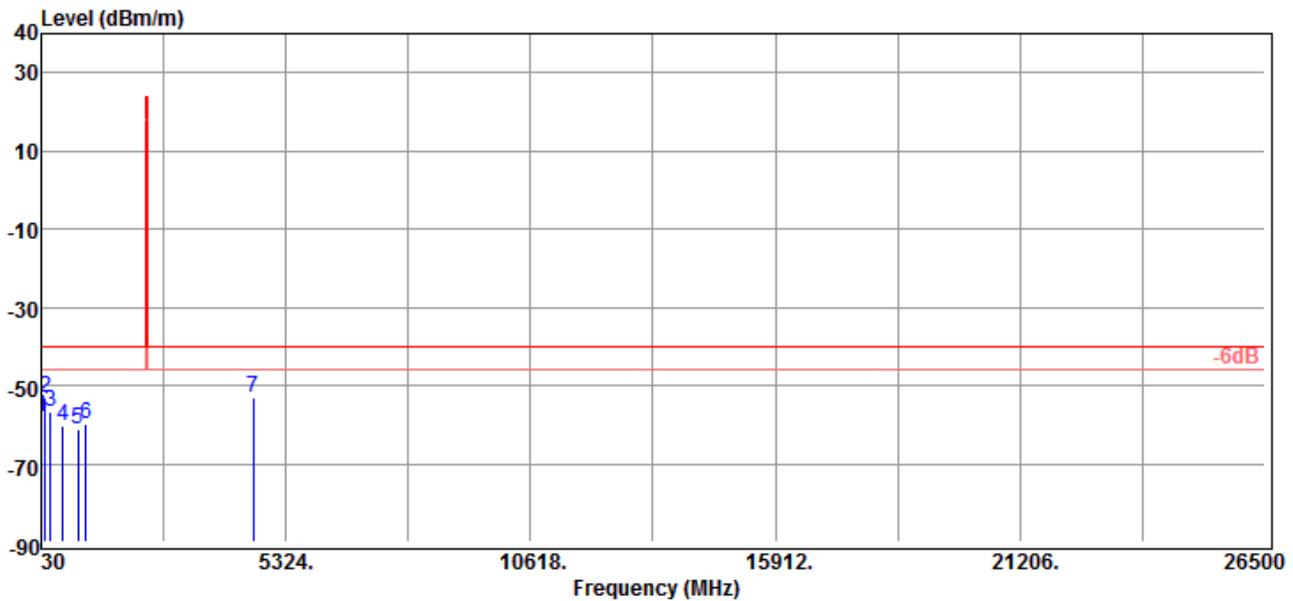
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Operation Mode	:LTEB30 10M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2310 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-58.14	-38.53	-19.15	-0.46	-40.00	-18.14
116.33	-52.97	-52.45	0.39	-0.91	-40.00	-12.97
236.61	-56.71	-60.65	5.33	-1.39	-40.00	-16.71
498.51	-60.13	-63.81	6.28	-2.60	-40.00	-20.13
832.19	-61.26	-66.39	7.52	-2.39	-40.00	-21.26
997.09	-60.03	-64.86	7.80	-2.97	-40.00	-20.03
4620.00	-53.23	-59.25	12.58	-6.56	-40.00	-13.23

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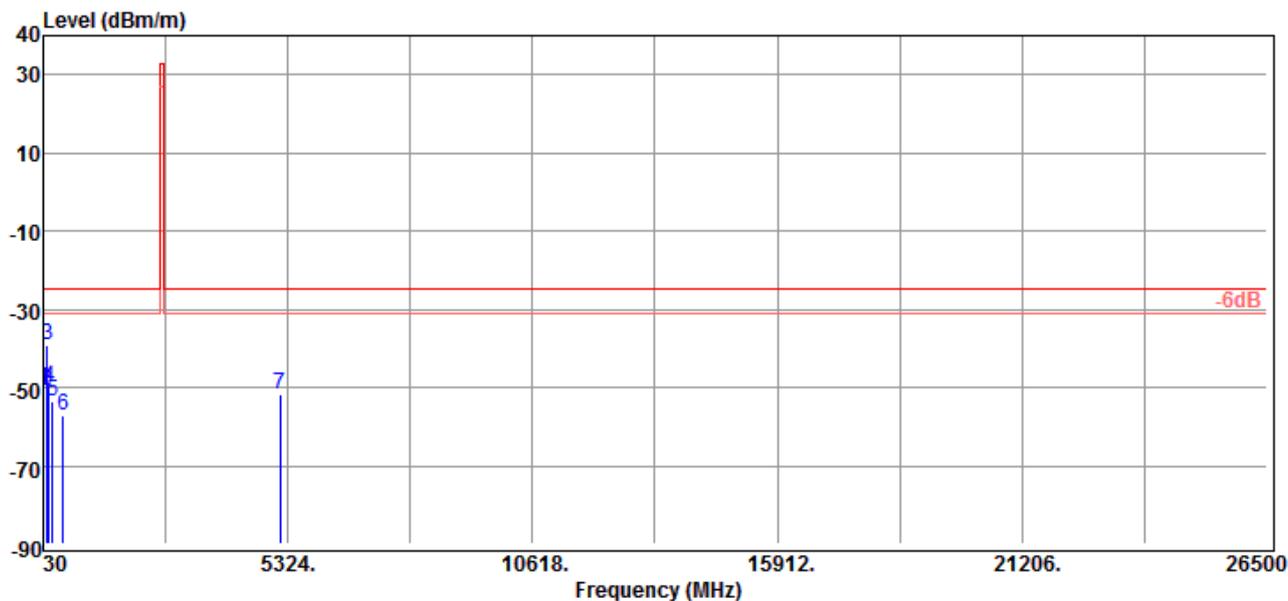
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### Radiated Spurious Emission Measurement Result: LTE-Band 38 (The Worst Case)

Operation Mode	:LTEB38 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2580 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-50.22	-32.29	-17.44	-0.49	-25.00	-25.22
90.14	-50.89	-50.06	-0.02	-0.81	-25.00	-25.89
110.51	-39.04	-38.10	-0.05	-0.89	-25.00	-14.04
151.25	-49.88	-51.50	2.63	-1.01	-25.00	-24.88
227.88	-53.42	-57.51	5.44	-1.35	-25.00	-28.42
470.38	-57.21	-61.08	6.16	-2.29	-25.00	-32.21
5160.00	-51.92	-57.92	12.67	-6.67	-25.00	-26.92

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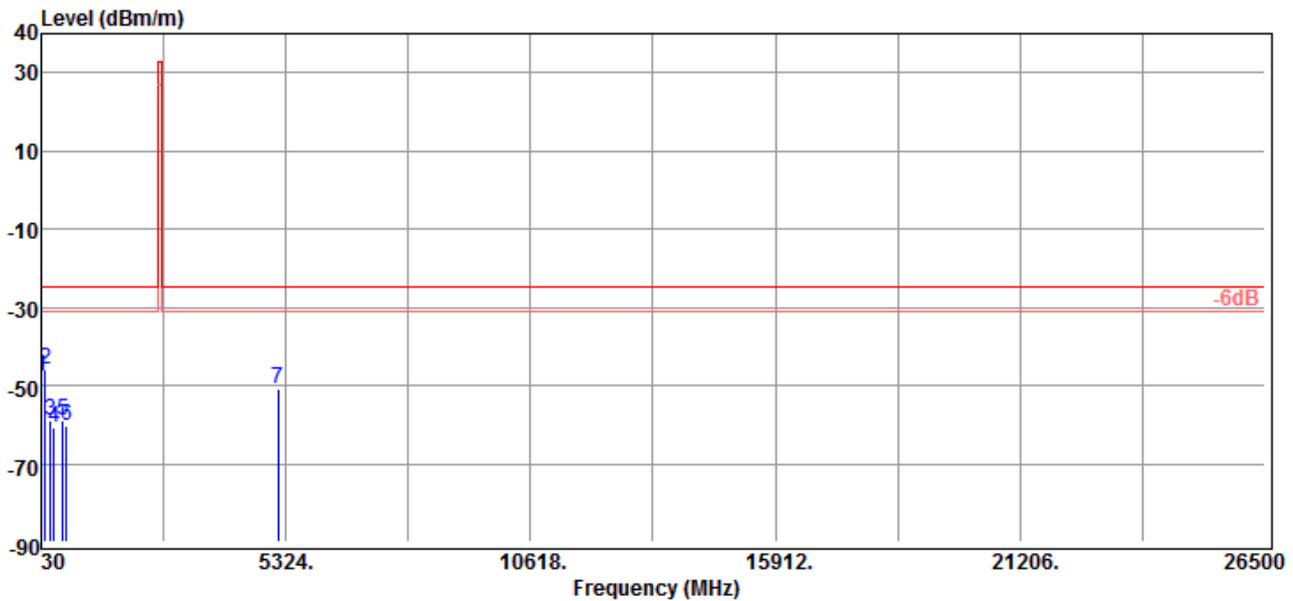
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Operation Mode	:LTEB38 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2580 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-47.50	-29.57	-17.44	-0.49	-25.00	-22.50
111.48	-46.07	-45.20	0.03	-0.90	-25.00	-21.07
229.82	-58.95	-63.01	5.42	-1.36	-25.00	-33.95
306.45	-60.54	-64.72	5.84	-1.66	-25.00	-35.54
498.51	-58.88	-62.56	6.28	-2.60	-25.00	-33.88
576.11	-60.25	-64.48	6.46	-2.23	-25.00	-35.25
5160.00	-50.75	-56.75	12.67	-6.67	-25.00	-25.75

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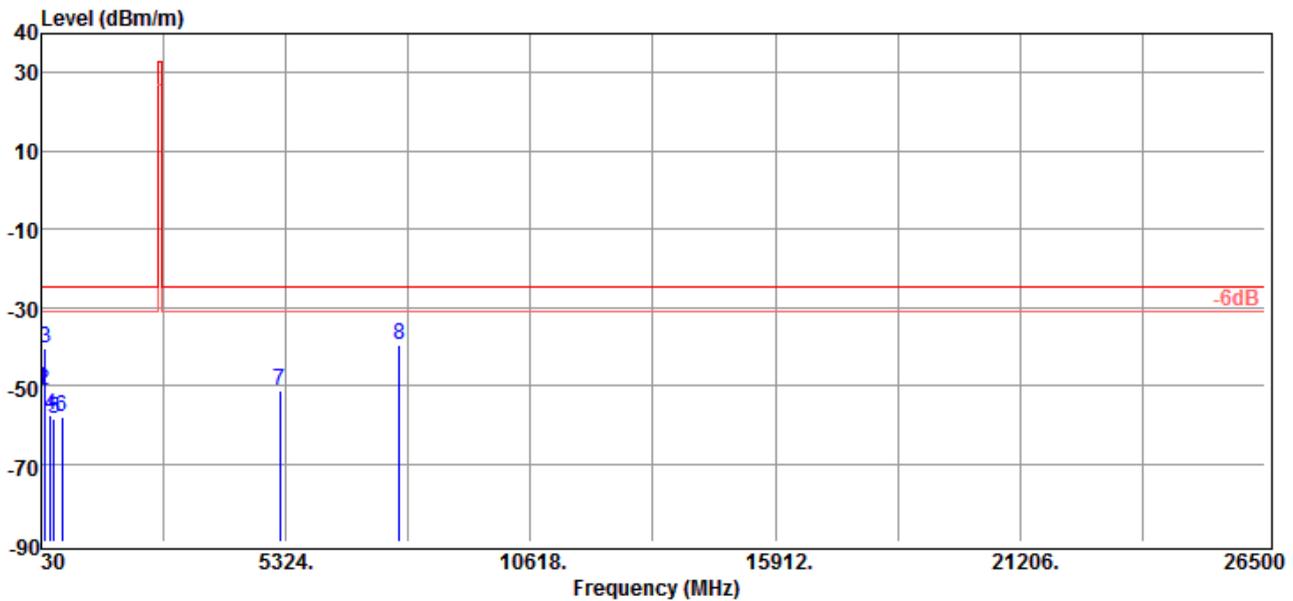
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Operation Mode	:LTEB38 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2595 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-50.77	-32.01	-18.29	-0.47	-25.00	-25.77
90.14	-51.17	-50.34	-0.02	-0.81	-25.00	-26.17
111.48	-40.50	-39.63	0.03	-0.90	-25.00	-15.50
229.82	-57.50	-61.56	5.42	-1.36	-25.00	-32.50
300.63	-58.72	-62.95	5.85	-1.62	-25.00	-33.72
475.23	-57.92	-61.76	6.18	-2.34	-25.00	-32.92
5190.00	-51.18	-57.24	12.70	-6.64	-25.00	-26.18
7785.00	-39.44	-43.14	11.30	-7.60	-25.00	-14.44

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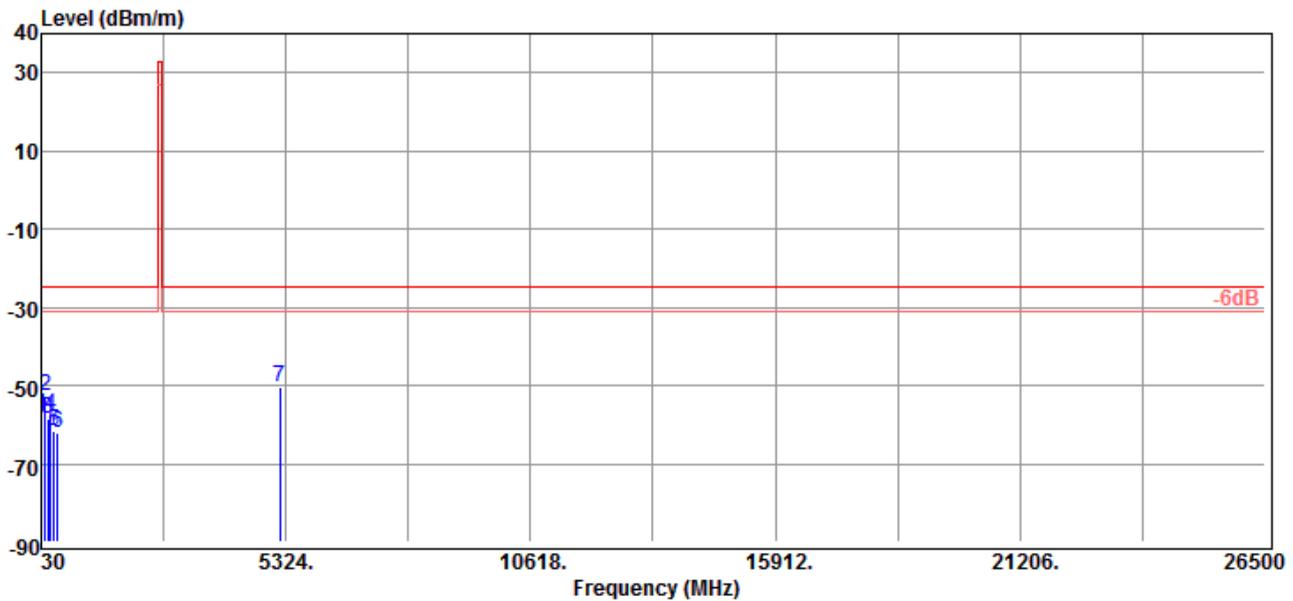
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Operation Mode	:LTEB38 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2595 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-57.75	-38.99	-18.29	-0.47	-25.00	-32.75
116.33	-52.76	-52.24	0.39	-0.91	-25.00	-27.76
164.83	-58.62	-61.16	3.61	-1.07	-25.00	-33.62
237.58	-57.50	-61.43	5.32	-1.39	-25.00	-32.50
299.66	-61.71	-65.94	5.85	-1.62	-25.00	-36.71
383.08	-61.99	-65.61	5.63	-2.01	-25.00	-36.99
5190.00	-50.42	-56.48	12.70	-6.64	-25.00	-25.42

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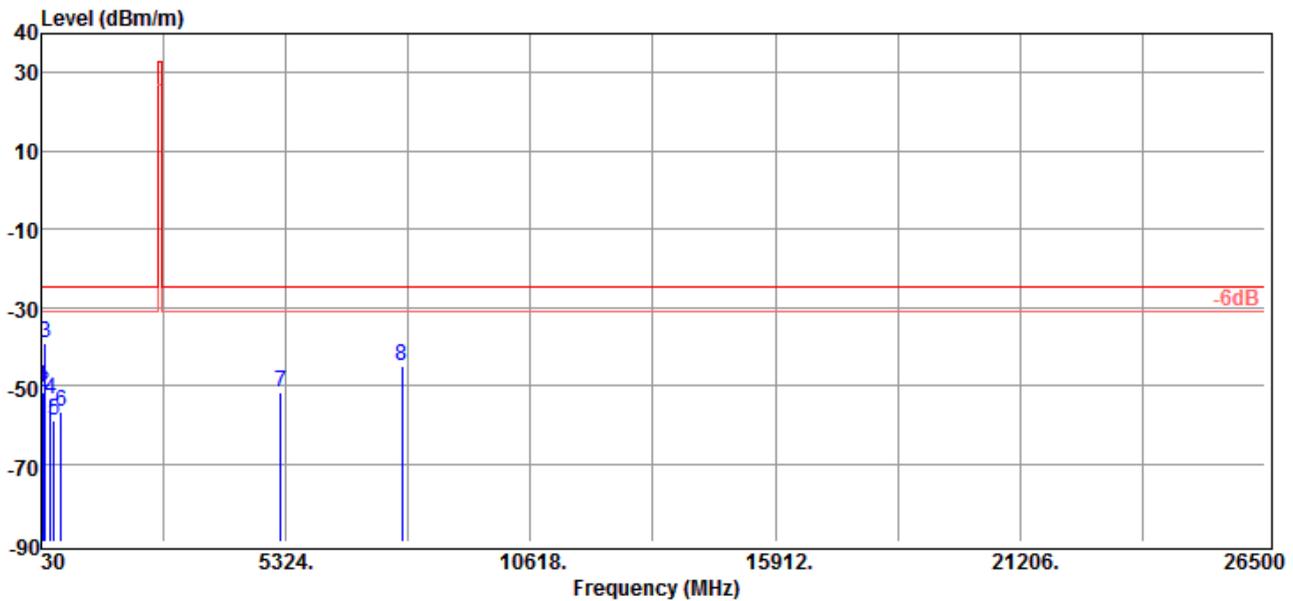
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Operation Mode	:LTEB38 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2610 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-50.50	-32.57	-17.44	-0.49	-25.00	-25.50
87.23	-51.94	-51.31	0.17	-0.80	-25.00	-26.94
111.48	-39.29	-38.42	0.03	-0.90	-25.00	-14.29
226.91	-53.41	-57.52	5.46	-1.35	-25.00	-28.41
299.66	-59.13	-63.36	5.85	-1.62	-25.00	-34.13
464.56	-56.69	-60.61	6.14	-2.22	-25.00	-31.69
5220.00	-51.95	-58.07	12.73	-6.61	-25.00	-26.95
7830.00	-44.87	-48.53	11.30	-7.64	-25.00	-19.87

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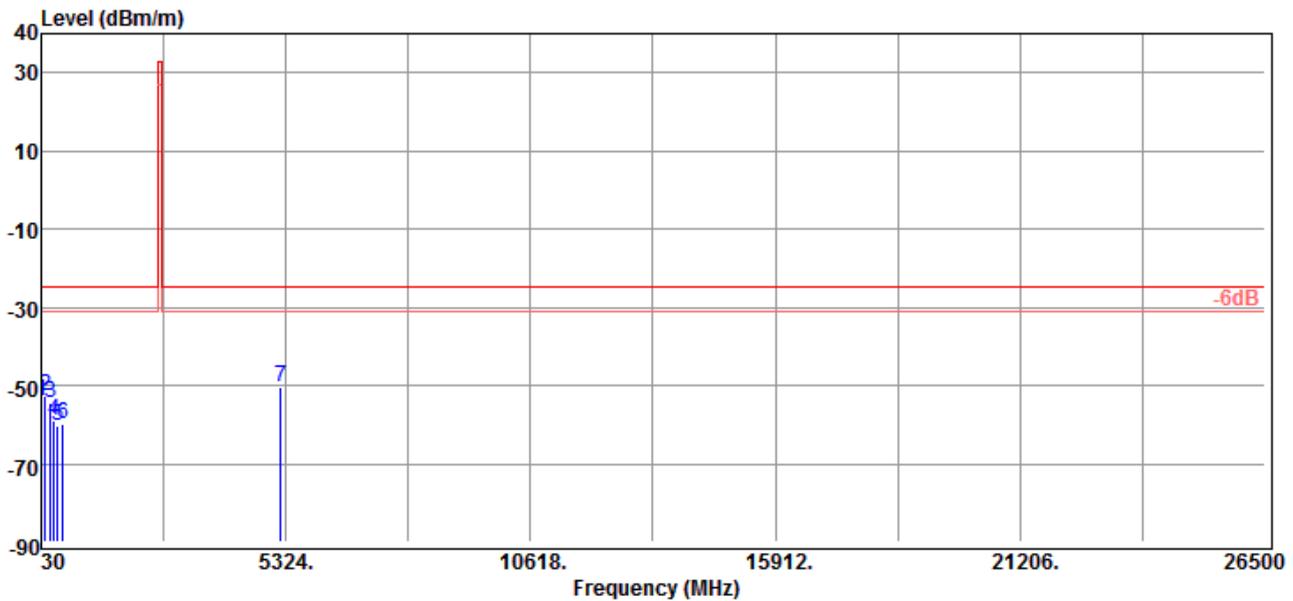
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Operation Mode	:LTEB38 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2610 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-53.80	-35.87	-17.44	-0.49	-25.00	-28.80
115.36	-52.68	-52.09	0.32	-0.91	-25.00	-27.68
238.55	-54.33	-58.25	5.31	-1.39	-25.00	-29.33
299.66	-59.04	-63.27	5.85	-1.62	-25.00	-34.04
383.08	-60.29	-63.91	5.63	-2.01	-25.00	-35.29
499.48	-59.98	-63.66	6.29	-2.61	-25.00	-34.98
5220.00	-50.20	-56.32	12.73	-6.61	-25.00	-25.20

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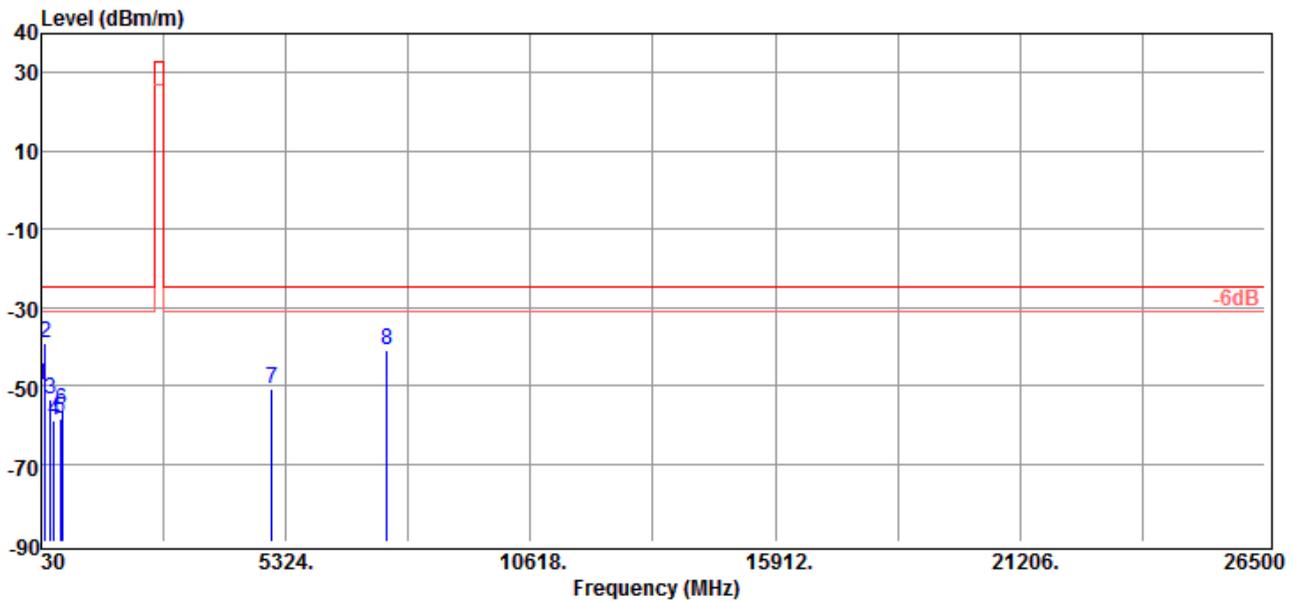
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### Radiated Spurious Emission Measurement Result: LTE-Band 41 (The Worst Case)

Operation Mode	:LTEB41 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2506 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-49.83	-31.07	-18.29	-0.47	-25.00	-24.83
111.48	-39.21	-38.34	0.03	-0.90	-25.00	-14.21
227.88	-53.69	-57.78	5.44	-1.35	-25.00	-28.69
301.60	-58.91	-63.13	5.85	-1.63	-25.00	-33.91
449.04	-58.69	-62.69	6.06	-2.06	-25.00	-33.69
473.29	-56.48	-60.34	6.18	-2.32	-25.00	-31.48
5012.00	-50.89	-56.58	12.51	-6.82	-25.00	-25.89
7518.00	-40.88	-44.86	11.30	-7.32	-25.00	-15.88

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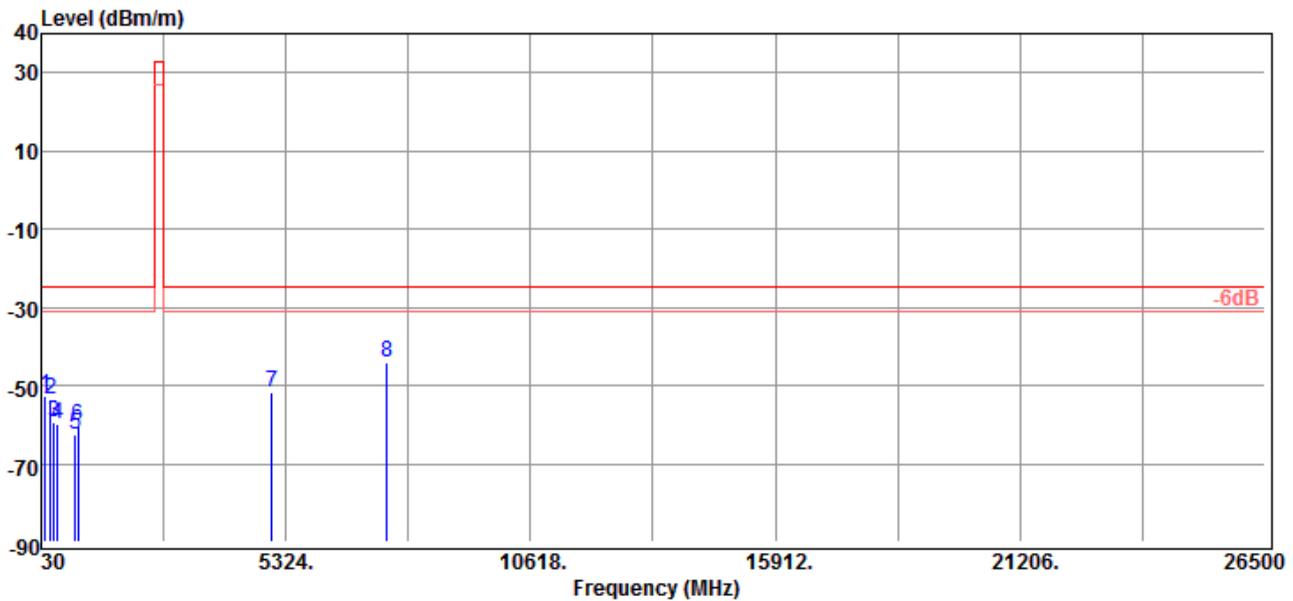
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Operation Mode	:LTEB41 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2506 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.39	-52.46	-51.80	0.24	-0.90	-25.00	-27.46
236.61	-53.57	-57.51	5.33	-1.39	-25.00	-28.57
299.66	-59.35	-63.58	5.85	-1.62	-25.00	-34.35
378.23	-59.71	-63.36	5.65	-2.00	-25.00	-34.71
771.08	-62.45	-67.72	7.48	-2.21	-25.00	-37.45
832.19	-60.41	-65.54	7.52	-2.39	-25.00	-35.41
5012.00	-51.71	-57.40	12.51	-6.82	-25.00	-26.71
7518.00	-44.32	-48.30	11.30	-7.32	-25.00	-19.32

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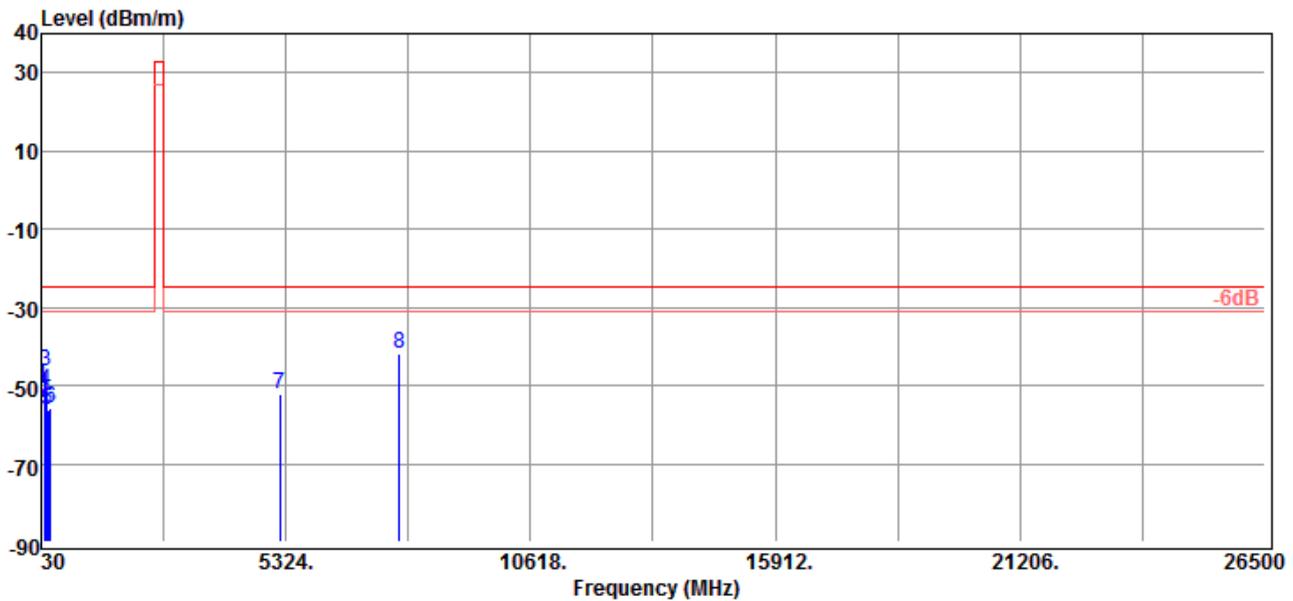
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Operation Mode	:LTEB41 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2593 MHz	Engineer	:Enzo



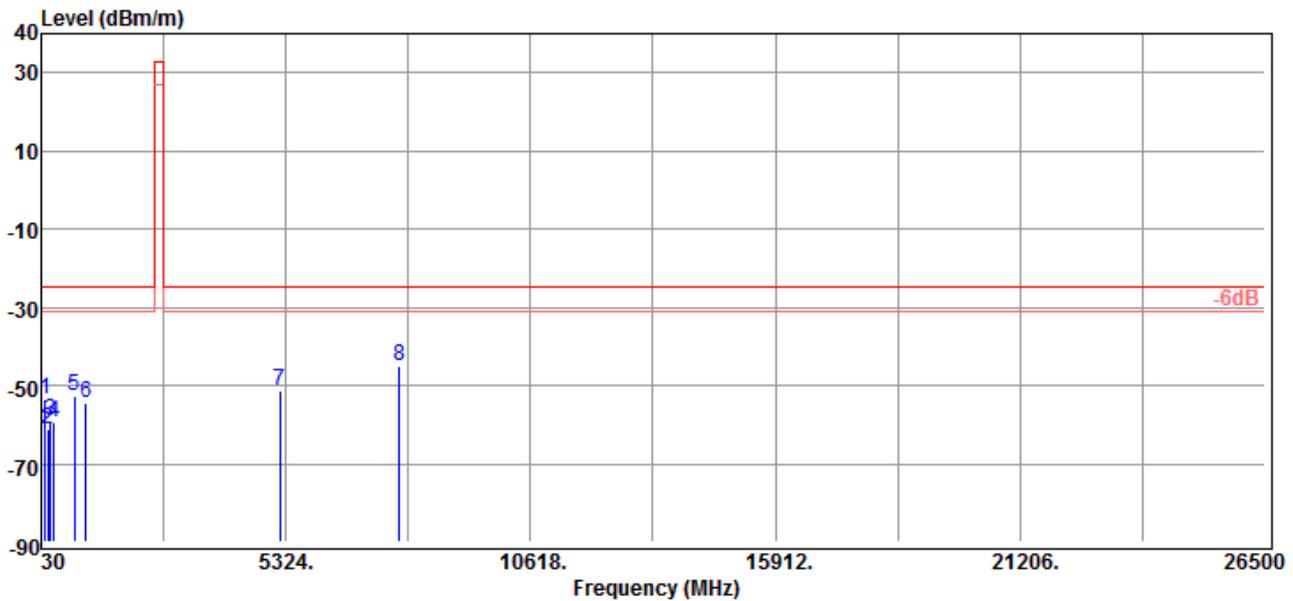
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-50.03	-32.10	-17.44	-0.49	-25.00	-25.03
88.20	-54.55	-53.85	0.11	-0.81	-25.00	-29.55
111.48	-46.57	-45.70	0.03	-0.90	-25.00	-21.57
127.00	-51.31	-51.50	1.13	-0.94	-25.00	-26.31
165.80	-56.30	-58.90	3.68	-1.08	-25.00	-31.30
236.61	-55.72	-59.66	5.33	-1.39	-25.00	-30.72
5186.00	-52.07	-58.12	12.69	-6.64	-25.00	-27.07
7779.00	-41.95	-45.66	11.30	-7.59	-25.00	-16.95

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Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2593 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-53.71	-52.84	0.03	-0.90	-25.00	-28.71
164.83	-61.00	-63.54	3.61	-1.07	-25.00	-36.00
235.64	-58.97	-62.93	5.34	-1.38	-25.00	-33.97
303.54	-59.33	-63.54	5.85	-1.64	-25.00	-34.33
744.89	-52.80	-58.13	7.40	-2.07	-25.00	-27.80
999.03	-54.28	-59.11	7.81	-2.98	-25.00	-29.28
5186.00	-51.30	-57.35	12.69	-6.64	-25.00	-26.30
7779.00	-44.94	-48.65	11.30	-7.59	-25.00	-19.94

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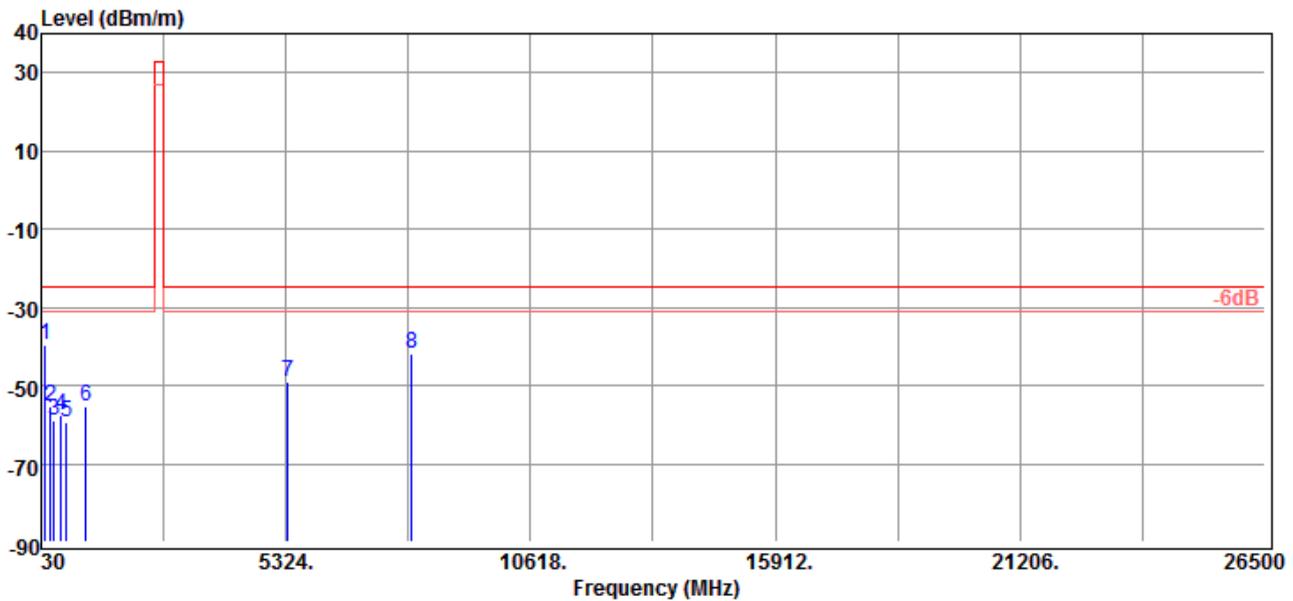
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Operation Mode	:LTEB41 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:2680 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.48	-39.43	-38.56	0.03	-0.90	-25.00	-14.43
227.88	-55.48	-59.57	5.44	-1.35	-25.00	-30.48
299.66	-58.90	-63.13	5.85	-1.62	-25.00	-33.90
470.38	-57.39	-61.26	6.16	-2.29	-25.00	-32.39
575.14	-59.47	-63.69	6.45	-2.23	-25.00	-34.47
996.12	-55.41	-60.24	7.80	-2.97	-25.00	-30.41
5360.00	-49.16	-55.55	12.86	-6.47	-25.00	-24.16
8040.00	-41.77	-45.33	11.37	-7.81	-25.00	-16.77

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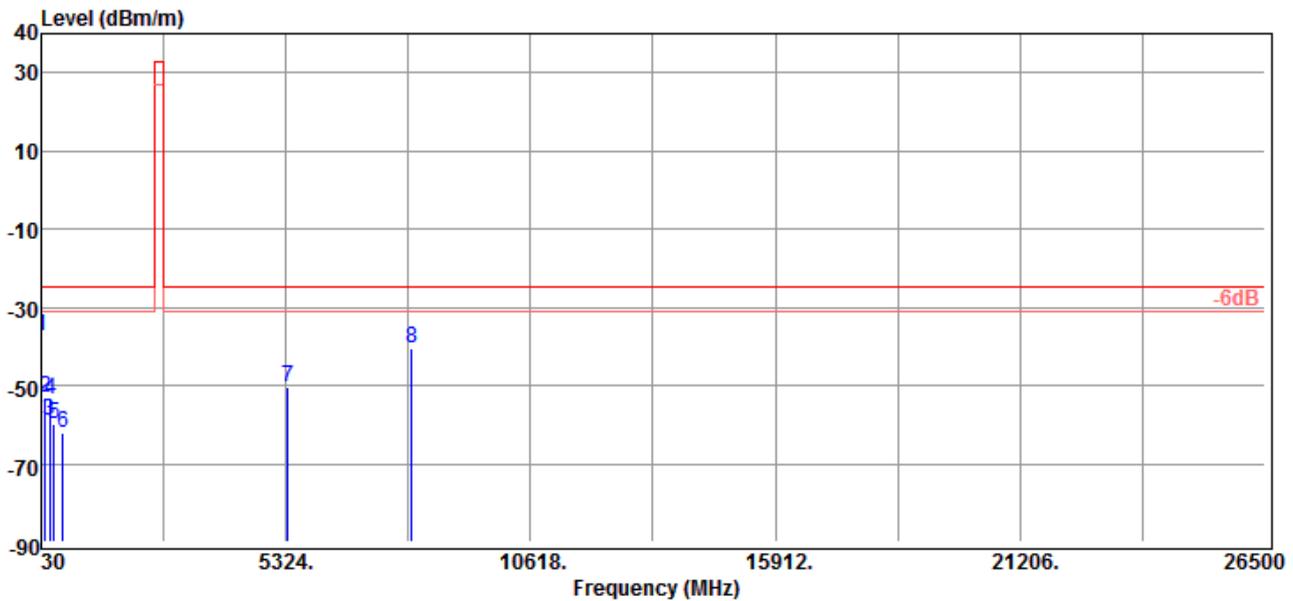
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Operation Mode	:LTEB41 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:2680 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-37.36	-23.23	-13.57	-0.56	-25.00	-12.36
115.36	-52.93	-52.34	0.32	-0.91	-25.00	-27.93
214.30	-59.02	-63.35	5.63	-1.30	-25.00	-34.02
235.64	-53.77	-57.73	5.34	-1.38	-25.00	-28.77
302.57	-59.71	-63.92	5.85	-1.64	-25.00	-34.71
498.51	-62.24	-65.92	6.28	-2.60	-25.00	-37.24
5360.00	-50.57	-56.96	12.86	-6.47	-25.00	-25.57
8040.00	-40.70	-44.26	11.37	-7.81	-25.00	-15.70

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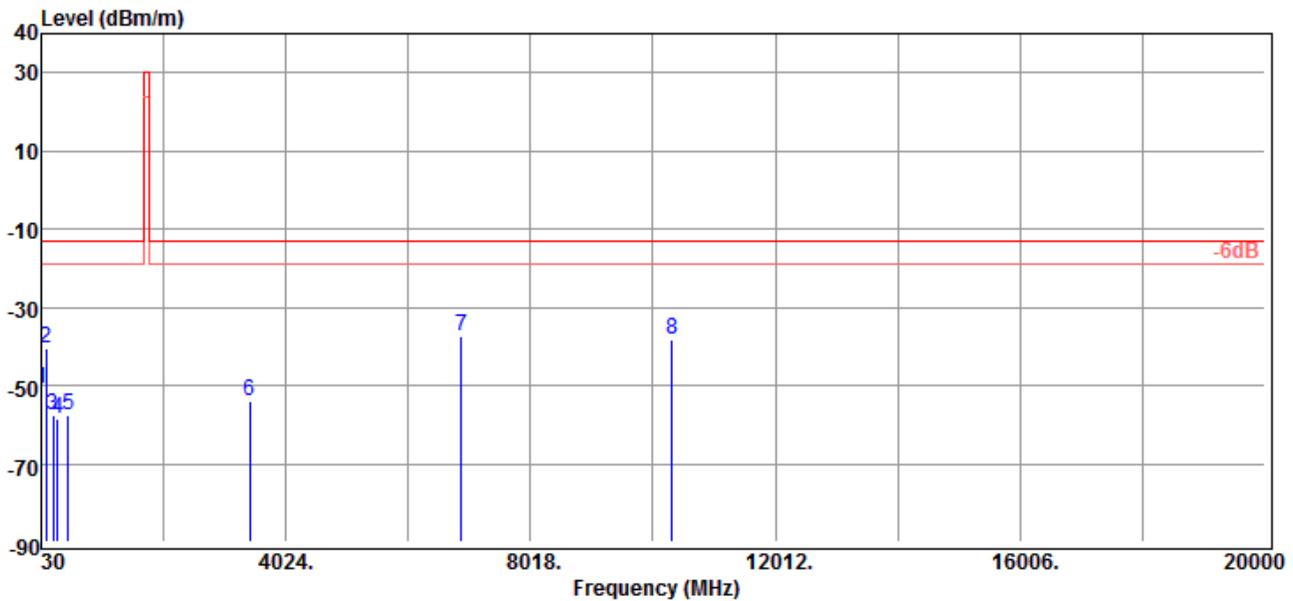
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### Radiated Spurious Emission Measurement Result: LTE-Band 66 (The Worst Case)

Operation Mode	:LTEB66 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1720 MHz	Engineer	:Enzo



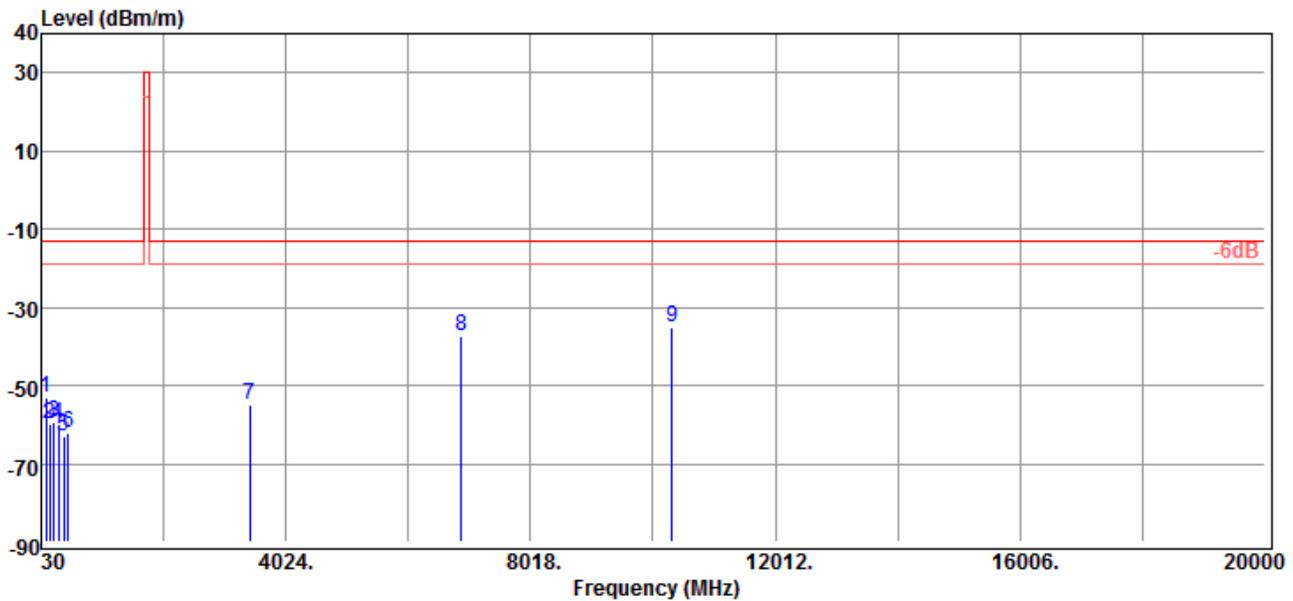
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-50.73	-32.80	-17.44	-0.49	-13.00	-37.73
110.51	-40.59	-39.65	-0.05	-0.89	-13.00	-27.59
227.88	-57.40	-61.49	5.44	-1.35	-13.00	-44.40
299.66	-58.50	-62.73	5.85	-1.62	-13.00	-45.50
476.20	-57.63	-61.47	6.19	-2.35	-13.00	-44.63
3440.00	-53.95	-59.42	12.19	-6.72	-13.00	-40.95
6880.00	-37.57	-42.37	12.07	-7.27	-13.00	-24.57
10320.00	-38.47	-40.74	11.21	-8.94	-13.00	-25.47

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Operation Mode	:LTEB66 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1720 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
115.36	-53.16	-52.57	0.32	-0.91	-13.00	-40.16
166.77	-59.98	-62.65	3.75	-1.08	-13.00	-46.98
237.58	-59.22	-63.15	5.32	-1.39	-13.00	-46.22
305.48	-59.86	-64.04	5.84	-1.66	-13.00	-46.86
392.78	-63.15	-66.70	5.58	-2.03	-13.00	-50.15
467.47	-62.10	-65.99	6.15	-2.26	-13.00	-49.10
3440.00	-54.93	-60.40	12.19	-6.72	-13.00	-41.93
6880.00	-37.30	-42.10	12.07	-7.27	-13.00	-24.30
10320.00	-35.33	-37.60	11.21	-8.94	-13.00	-22.33

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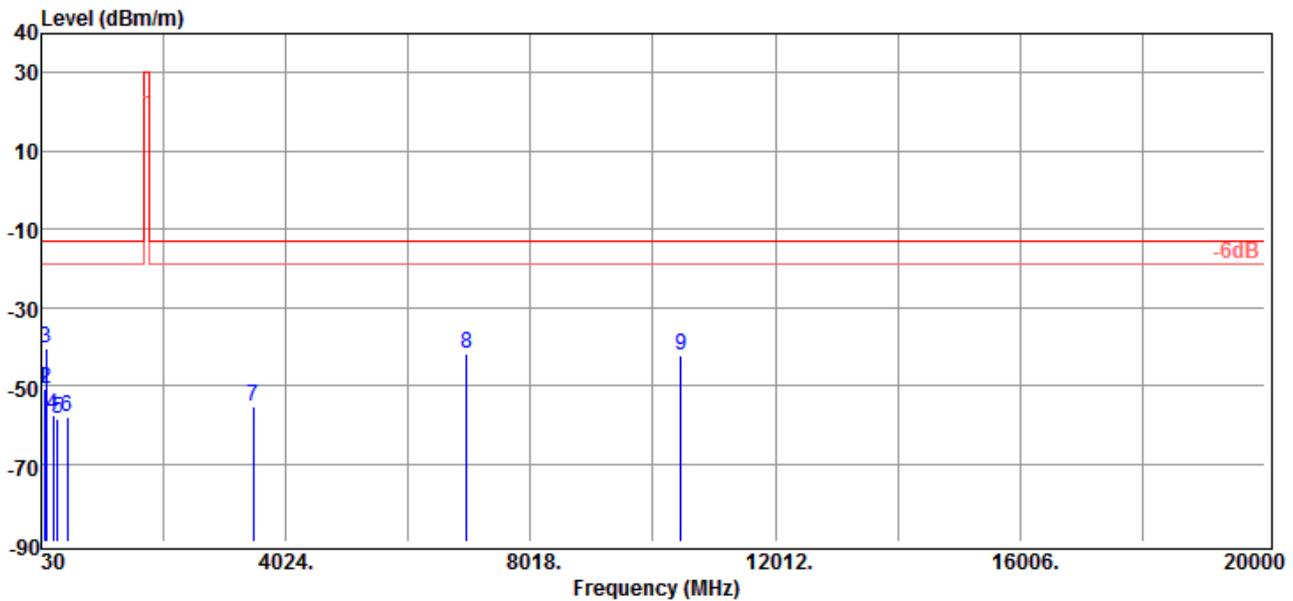
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Operation Mode	:LTEB66 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1745 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-51.02	-33.09	-17.44	-0.49	-13.00	-38.02
100.81	-51.09	-49.40	-0.82	-0.87	-13.00	-38.09
111.48	-40.62	-39.75	0.03	-0.90	-13.00	-27.62
227.88	-57.65	-61.74	5.44	-1.35	-13.00	-44.65
300.63	-58.54	-62.77	5.85	-1.62	-13.00	-45.54
454.86	-57.91	-61.89	6.09	-2.11	-13.00	-44.91
3490.00	-55.34	-60.66	12.28	-6.96	-13.00	-42.34
6980.00	-41.78	-46.59	12.01	-7.20	-13.00	-28.78
10470.00	-42.18	-44.05	11.12	-9.25	-13.00	-29.18

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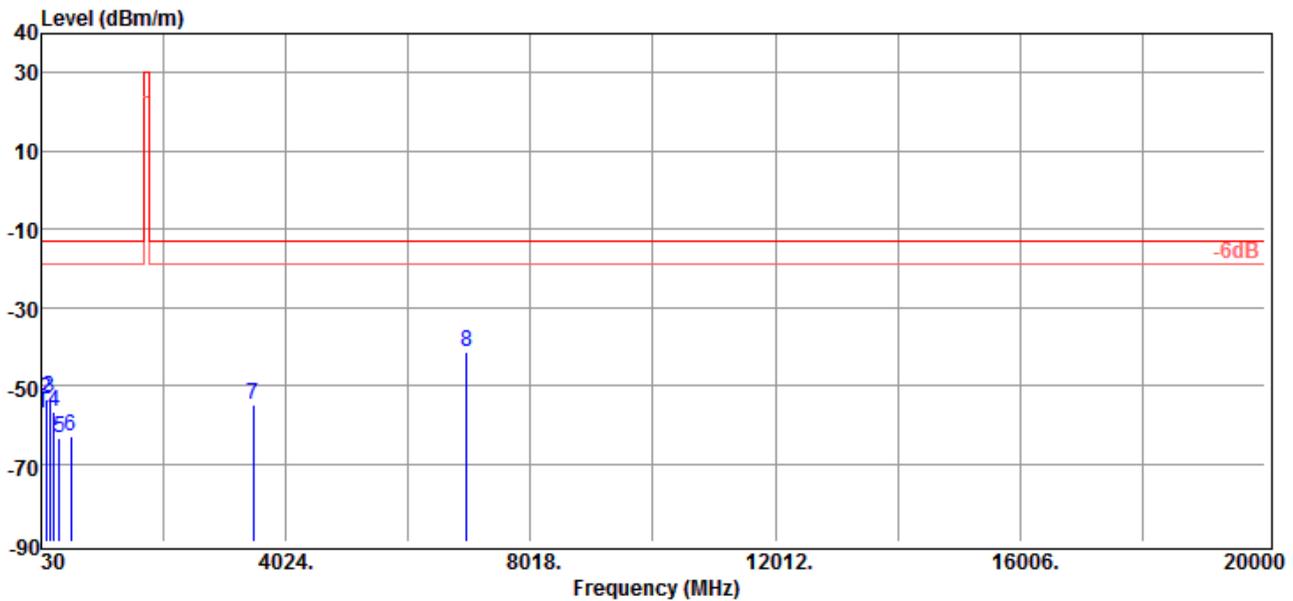
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Operation Mode	:LTEB66 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1745 MHz	Engineer	:Enzo



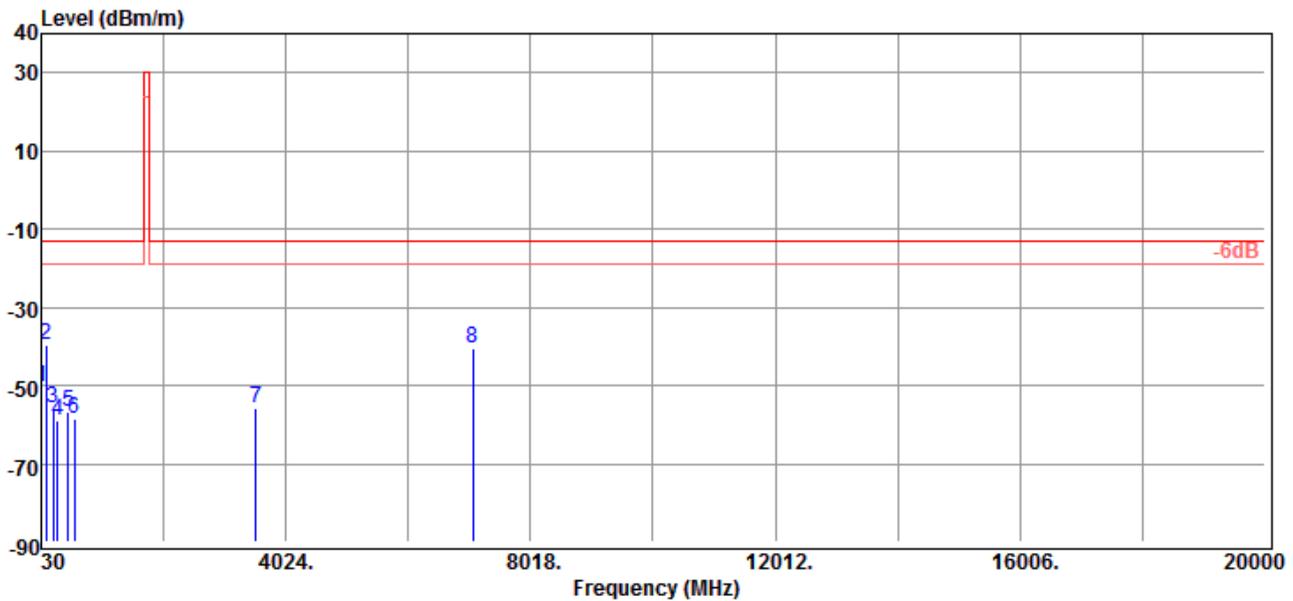
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.24	-36.75	-20.05	-0.44	-13.00	-44.24
115.36	-53.72	-53.13	0.32	-0.91	-13.00	-40.72
161.92	-53.17	-55.52	3.41	-1.06	-13.00	-40.17
237.58	-56.64	-60.57	5.32	-1.39	-13.00	-43.64
332.64	-63.32	-67.29	5.81	-1.84	-13.00	-50.32
513.06	-62.84	-66.56	6.27	-2.55	-13.00	-49.84
3490.00	-54.72	-60.04	12.28	-6.96	-13.00	-41.72
6980.00	-41.60	-46.41	12.01	-7.20	-13.00	-28.60

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Operation Mode	:LTEB66 20M QPSK RB 1,0	Test Date	:2018-12-10
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1770 MHz	Engineer	:Enzo



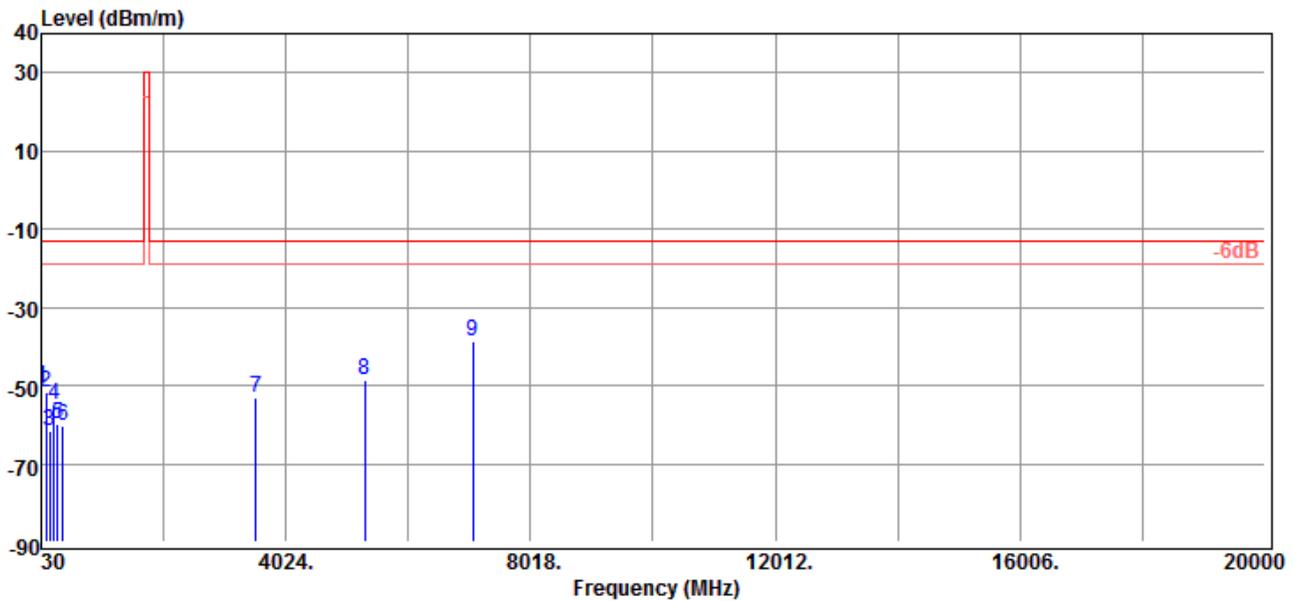
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
31.94	-50.54	-31.78	-18.29	-0.47	-13.00	-37.54
110.51	-39.76	-38.82	-0.05	-0.89	-13.00	-26.76
225.94	-55.71	-59.84	5.47	-1.34	-13.00	-42.71
298.69	-58.99	-63.20	5.83	-1.62	-13.00	-45.99
472.32	-56.91	-60.77	6.17	-2.31	-13.00	-43.91
574.17	-58.40	-62.60	6.44	-2.24	-13.00	-45.40
3540.00	-55.78	-61.15	12.33	-6.96	-13.00	-42.78
7080.00	-40.48	-45.15	11.88	-7.21	-13.00	-27.48

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Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1770 MHz	Engineer	:Enzo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
32.91	-50.23	-32.30	-17.44	-0.49	-13.00	-37.23
115.36	-51.87	-51.28	0.32	-0.91	-13.00	-38.87
170.65	-61.61	-64.52	4.01	-1.10	-13.00	-48.61
232.73	-54.80	-58.81	5.38	-1.37	-13.00	-41.80
299.66	-59.85	-64.08	5.85	-1.62	-13.00	-46.85
382.11	-60.33	-63.95	5.63	-2.01	-13.00	-47.33
3540.00	-53.33	-58.70	12.33	-6.96	-13.00	-40.33
5310.00	-48.64	-54.94	12.82	-6.52	-13.00	-35.64
7080.00	-38.67	-43.34	11.88	-7.21	-13.00	-25.67

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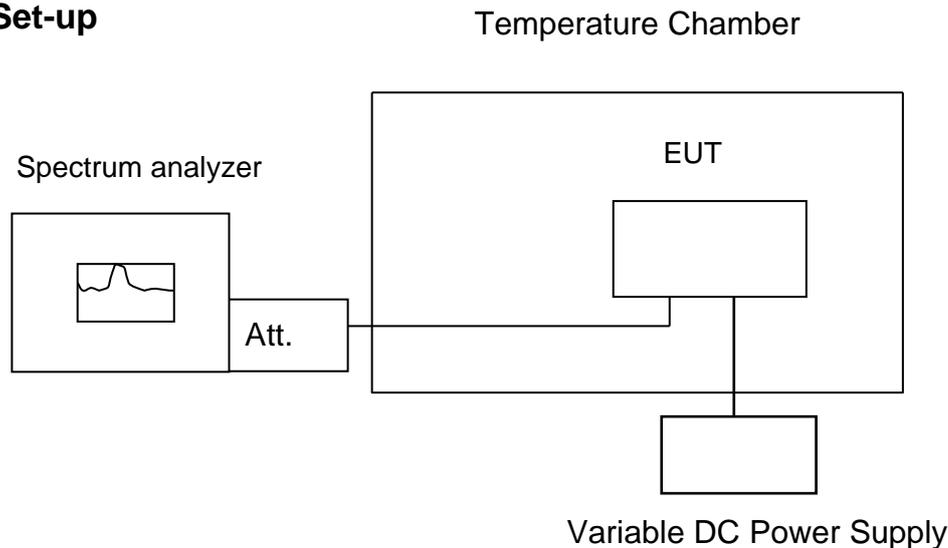
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## 10 FREQUENCY STABILITY MEASUREMENT

### 10.3 Standard Applicable

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### 10.4 Test Set-up



**Note:** Measurement setup for testing on Antenna connector

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## 10.5 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25 . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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## 10.6 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF29	2017/12/26	2018/12/25

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## 10.7 Measurement Result

WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
7.7	20	1879.999993	-7.000000096	4700
7.2 (End point)	20	1880.000005	5.000000101	4700
FREQUENCY ERROR vs. Temp.				
7.7	50	1879.999998	-1.999999995	4700
7.7	40	1880.000003	3.000000106	4700
7.7	30	1880.000002	1.999999995	4700
7.7	20	1879.999993	-7.000000096	4700
7.7	10	1880.000008	7.99999998	4700
7.7	0	1880.000006	5.999999985	4700
7.7	-10	1880.000001	1.000000111	4700
7.7	-20	1879.999996	-3.99999999	4700
7.7	-30	1879.999995	-5.000000101	4700

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WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
7.7	20	1732.599998	-1.999999995	4331
7.2 (End point)	20	1732.599996	-3.999999999	4331
FREQUENCY ERROR vs. Temp.				
7.7	50	1732.600003	3.000000106	4331
7.7	40	1732.6	0	4331
7.7	30	1732.6	0	4331
7.7	20	1732.599998	-1.999999995	4331
7.7	10	1732.599991	-8.999999864	4331
7.7	0	1732.599998	-1.999999995	4331
7.7	-10	1732.599999	-0.999999884	4331
7.7	-20	1732.600003	3.000000106	4331
7.7	-30	1732.600001	1.000000111	4331

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WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
7.7	20	836.600004	3.99999999	2091
7.2 (End point)	20	836.599998	-1.999999995	2091
FREQUENCY ERROR vs. Temp.				
7.7	50	836.600008	7.99999998	2091
7.7	40	836.600004	3.99999999	2091
7.7	30	836.599999	-9.999999975	2091
7.7	20	836.600004	3.99999999	2091
7.7	10	836.600008	7.99999998	2091
7.7	0	836.600005	4.999999987	2091
7.7	-10	836.599993	-6.999999982	2091
7.7	-20	836.599999	-0.999999997	2091
7.7	-30	836.599992	-7.99999998	2091

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Reference Freq.: LTE B2 Mid Channel 1880 MHz 20M QPSK CH 18900				
Power Supply Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
<b>Freq. ERROR vs. VOLTAGE</b>				
7.7	25	1879.999987	-13.00000008	4700
7.2 (End Point)	25	1880.000005	5.000000101	4700
<b>Freq. ERROR vs. Temp.</b>				
7.7	-30	1880.000002	1.999999995	4700
7.7	-20	1879.999998	-1.999999995	4700
7.7	-10	1879.999995	-5.000000101	4700
7.7	0	1879.999995	-5.000000101	4700
7.7	10	1880.000000	0	4700
7.7	20	1879.999995	-5.000000101	4700
7.7	30	1880.000004	3.99999999	4700
7.7	40	1879.999994	-5.999999985	4700
7.7	50	1879.999994	-5.999999985	4700

Reference Freq.: LTE B4 Mid Channel 1732.5 MHz 20M QPSK CH 20175				
Power Supply Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
<b>Freq. ERROR vs. VOLTAGE</b>				
7.7	25	1732.500003	3.000000106	4331
7.2 (End Point)	25	1732.500001	1.000000111	4331
<b>Freq. ERROR vs. Temp.</b>				
7.7	-30	1732.499993	-7.000000096	4331
7.7	-20	1732.499985	-15.00000008	4331
7.7	-10	1732.499994	-5.999999985	4331
7.7	0	1732.499996	-3.99999999	4331
7.7	10	1732.500000	0	4331
7.7	20	1732.499986	-13.99999996	4331
7.7	30	1732.500004	3.99999999	4331
7.7	40	1732.499999	-1.000000111	4331
7.7	50	1732.499989	-11.00000009	4331

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Reference Freq.:		LTE B5 Mid Channel		836.5	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
<b>Freq. ERROR vs. VOLTAGE</b>					
7.7	25	836.499996	-3.99999999	2091	
7.2 (End Point)	25	836.499999	-0.999999997	2091	
<b>Freq. ERROR vs. Temp.</b>					
7.7	-30	836.499986	-13.99999996	2091	
7.7	-20	836.500002	1.999999995	2091	
7.7	-10	836.499987	-12.99999997	2091	
7.7	0	836.500000	0	2091	
7.7	10	836.499985	-14.99999996	2091	
7.7	20	836.500000	0	2091	
7.7	30	836.499993	-6.999999982	2091	
7.7	40	836.500001	0.999999997	2091	
7.7	50	836.499999	-0.999999997	2091	

Reference Freq.:		LTE B7 Mid Channel		2535	MHz 10M QPSK CH 21100
Power Supply Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
<b>Freq. ERROR vs. VOLTAGE</b>					
7.7	25	2534.999997	-3.000000106	6338	
7.2 (End Point)	25	2534.999993	-7.000000096	6338	
<b>Freq. ERROR vs. Temp.</b>					
7.7	-30	2534.999994	-6.000000212	6338	
7.7	-20	2534.999992	-7.99999998	6338	
7.7	-10	2535.000000	0	6338	
7.7	0	2535.000000	0	6338	
7.7	10	2534.999997	-3.000000106	6338	
7.7	20	2534.999993	-7.000000096	6338	
7.7	30	2534.999994	-6.000000212	6338	
7.7	40	2534.999999	-0.999999884	6338	
7.7	50	2534.999990	-10.0000002	6338	

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Reference Freq.:		LTE B12 Mid Channel	707.5	MHz	10M QPSK CH 23095
Power Supply Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
<b>Freq. ERROR vs. VOLTAGE</b>					
7.7	25	707.499992	-7.99999998	1769	
7.2 (End Point)	25	707.500000	0	1769	
<b>Freq. ERROR vs. Temp.</b>					
7.7	-30	707.499988	-11.99999997	1769	
7.7	-20	707.499997	-2.999999992	1769	
7.7	-10	707.499993	-6.999999982	1769	
7.7	0	707.499998	-1.999999995	1769	
7.7	10	707.499985	-14.99999996	1769	
7.7	20	707.499998	-1.999999995	1769	
7.7	30	707.499986	-13.99999996	1769	
7.7	40	707.500001	0.999999997	1769	
7.7	50	707.499998	-1.999999995	1769	

Reference Freq.:		LTE B13 Mid Channel	782	MHz	10M QPSK CH 23230
Power Supply Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
<b>Freq. ERROR vs. VOLTAGE</b>					
7.7	25	781.999999	-0.999999997	1955	
7.2 (End Point)	25	781.999998	-1.999999995	1955	
<b>Freq. ERROR vs. Temp.</b>					
7.7	-30	782.000003	2.999999992	1955	
7.7	-20	781.999992	-7.99999998	1955	
7.7	-10	781.999992	-7.99999998	1955	
7.7	0	782.000002	1.999999995	1955	
7.7	10	781.999997	-2.999999992	1955	
7.7	20	781.999985	-14.99999996	1955	
7.7	30	781.999988	-11.99999997	1955	
7.7	40	782.000002	1.999999995	1955	
7.7	50	781.999999	-0.999999997	1955	

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Reference Freq.: LTE B17 Mid Channel 710 MHz 10M QPSK CH 23790				
Power Supply Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
<b>Freq. ERROR vs. VOLTAGE</b>				
7.7	25	709.999998	-1.999999995	1775
7.2 (End Point)	25	709.999994	-5.999999985	1775
<b>Freq. ERROR vs. Temp.</b>				
7.7	-30	710.000001	0.999999997	1775
7.7	-20	709.999991	-8.999999977	1775
7.7	-10	709.999999	-0.999999997	1775
7.7	0	709.999994	-5.999999985	1775
7.7	10	709.999998	-1.999999995	1775
7.7	20	709.999989	-10.99999997	1775
7.7	30	710.000004	3.99999999	1775
7.7	40	709.999985	-14.99999996	1775
7.7	50	709.999986	-13.99999996	1775

Reference Freq.: LTE B26 Mid Channel 831.5 MHz 15M QPSK CH 26865				
Power Supply Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
<b>Freq. ERROR vs. VOLTAGE</b>				
7.7	25	831.499986	-13.99999996	2091
7.2 (End Point)	25	831.499989	-10.99999997	2091
<b>Freq. ERROR vs. Temp.</b>				
7.7	-30	831.500004	3.99999999	2091
7.7	-20	831.499995	-4.999999987	2091
7.7	-10	831.500001	0.999999997	2091
7.7	0	831.499999	-0.999999997	2091
7.7	10	831.500003	2.999999992	2091
7.7	20	831.499988	-11.99999997	2091
7.7	30	831.499987	-12.99999997	2091
7.7	40	831.500000	0	2091
7.7	50	831.499999	-0.999999997	2091

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Reference Freq.: Part 90 LTE B26 Mid Channel 819 MHz 10M QPSK CH 26740				
Power Supply Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
<b>Freq. ERROR vs. VOLTAGE (LTE B26 for Part 90S)</b>				
7.7	25	818.999992	-7.99999998	2048
7.2 (End Point)	25	818.999996	-3.99999999	2048
<b>Freq. ERROR vs. Temp.</b>				
7.7	-30	819.000000	0	2048
7.7	-20	819.000003	2.999999992	2048
7.7	-10	818.999993	-6.999999982	2048
7.7	0	818.999999	-0.999999997	2048
7.7	10	819.000001	0.999999997	2048
7.7	20	818.999985	-14.99999996	2048
7.7	30	819.000001	0.999999997	2048
7.7	40	818.999988	-11.99999997	2048
7.7	50	818.999999	-0.999999997	2048

Reference Freq.: LTE B30 Mid Channel 2310 MHz 10M QPSK CH 27710				
Power Supply Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
<b>Freq. ERROR vs. VOLTAGE</b>				
7.7	25	2309.999997	-3.000000106	6488
7.2 (End Point)	25	2309.999992	-7.99999998	6488
<b>Freq. ERROR vs. Temp.</b>				
7.7	-30	2309.999997	-3.000000106	6488
7.7	-20	2309.999993	-7.000000096	6488
7.7	-10	2310.000001	0.999999884	6488
7.7	0	2309.999991	-8.999999864	6488
7.7	10	2309.999990	-10.0000002	6488
7.7	20	2309.999998	-2.000000222	6488
7.7	30	2309.999993	-7.000000096	6488
7.7	40	2310.000003	3.000000106	6488
7.7	50	2309.999986	-14.00000019	6488

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Reference Freq.: LTE B38 Mid Channel 2595 MHz 10M QPSK CH 38000				
Power Supply Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
<b>Freq. ERROR vs. VOLTAGE</b>				
7.7	25	2595.000002	2.000000222	6488
7.2 (End Point)	25	2595.000004	3.99999999	6488
<b>Freq. ERROR vs. Temp.</b>				
7.7	-30	2594.999999	-0.999999884	6488
7.7	-20	2594.999990	-10.0000002	6488
7.7	-10	2594.999993	-7.000000096	6488
7.7	0	2595.000004	3.99999999	6488
7.7	10	2594.999993	-7.000000096	6488
7.7	20	2594.999987	-12.99999985	6488
7.7	30	2595.000004	3.99999999	6488
7.7	40	2594.999996	-3.99999999	6488
7.7	50	2594.999992	-7.99999998	6488

Reference Freq.: LTE B41 Mid Channel 2593 MHz 10M QPSK CH 40620				
Power Supply Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
<b>Freq. ERROR vs. VOLTAGE</b>				
7.7	25	2592.999985	-15.00000008	6488
7.2 (End Point)	25	2592.999999	-0.999999884	6488
<b>Freq. ERROR vs. Temp.</b>				
7.7	-30	2593.000002	2.000000222	6488
7.7	-20	2592.999986	-14.00000019	6488
7.7	-10	2592.999994	-6.000000212	6488
7.7	0	2592.999985	-15.00000008	6488
7.7	10	2592.999995	-4.999999874	6488
7.7	20	2593.000004	3.99999999	6488
7.7	30	2592.999986	-14.00000019	6488
7.7	40	2592.999987	-12.99999985	6488
7.7	50	2592.999985	-15.00000008	6488

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Reference Freq.: LTE B66 Mid Channel 1745 MHz 10M QPSK CH 132322				
Power Supply Vdc	Temp. ( )	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
<b>Freq. ERROR vs. VOLTAGE</b>				
7.7	25	1744.999988	-11.99999997	6488
7.2 (End Point)	25	1744.999993	-7.000000096	6488
<b>Freq. ERROR vs. Temp.</b>				
7.7	-30	1744.999998	-1.999999995	6488
7.7	-20	1745.000004	3.99999999	6488
7.7	-10	1744.999987	-13.00000008	6488
7.7	0	1745.000001	1.000000111	6488
7.7	10	1744.999993	-7.000000096	6488
7.7	20	1744.999985	-15.00000008	6488
7.7	30	1744.999990	-9.999999975	6488
7.7	40	1744.999985	-15.00000008	6488
7.7	50	1744.999990	-9.999999975	6488

**Note: The battery is rated 7.7V dc.**

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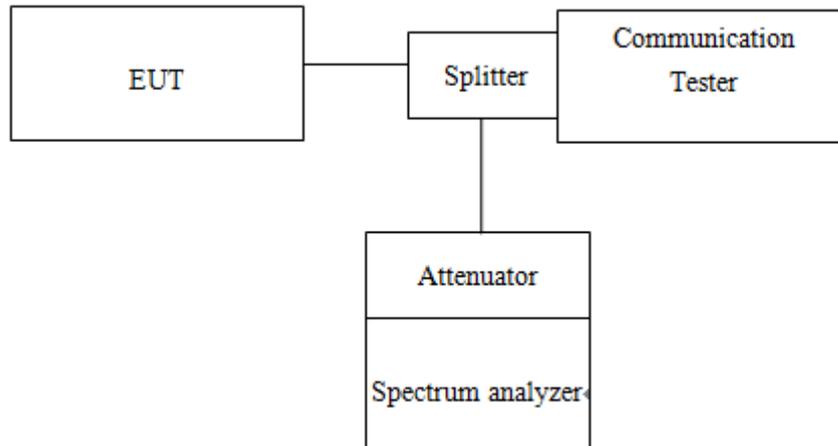
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## 11 PEAK TO AVERAGE RATIO

### 11.3 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

### 11.4 Test SET-UP



### 11.5 Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

### 11.6 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF29	2017/12/26	2018/12/25

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## 11.7 Measurement Result

### Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	3.45	3.42	3.42
1880	9400	3.43	3.41	3.42
1907.6	9538	3.37	3.37	3.37

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	3.31	3.32	3.33
1732.6	1413	3.41	3.40	3.41
1752.6	1513	3.39	3.38	3.39

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.4	4132	3.38	3.38	3.38
836.6	4183	3.41	3.36	3.38
846.6	4233	3.35	3.31	3.34

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1850.7	18607	6.66	13	1851.5	18615	6.60	13
1880.0	18900	6.46	13	1880.0	18900	6.40	13
1909.3	19193	5.96	13	1908.5	19185	6.23	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.5	18625	6.52	13	1855.0	18650	6.46	13
1880.0	18900	6.48	13	1880.0	18900	6.43	13
1907.5	19175	6.34	13	1905.0	19150	6.37	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1857.5	18675	6.39	13	1860.0	18700	8.46	13
1880.0	18900	6.32	13	1880.0	18900	6.34	13
1902.5	19125	8.47	13	1900.0	19100	6.45	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1710.7	19957	5.87	13	1711.5	19965	6.19	13
1732.5	20175	5.90	13	1732.5	20175	6.48	13
1754.3	20393	6.38	13	1753.5	20385	6.27	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.5	19957	6.26	13	1715.0	20000	6.37	13
1732.5	20175	6.40	13	1732.5	20175	6.46	13
1752.5	20375	6.36	13	1750.0	20350	6.49	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	20025	6.38	13	1720.0	20050	6.31	13
1732.5	20175	6.22	13	1732.5	20175	5.62	13
1747.5	20325	6.35	13	1745.0	20300	5.61	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
824.7	20407	5.27	13	825.5	20415	5.58	13
836.5	20525	6.64	13	836.5	20525	6.65	13
848.3	20643	6.39	13	847.5	20635	6.43	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
826.5	20425	5.87	13	829.0	20450	5.98	13
836.5	20525	6.62	13	836.5	20525	6.59	13
846.5	20625	6.34	13	844.0	20600	5.98	13

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LTE BAND 7							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2502.5	20775	5.90	13	2505.0	20800	5.87	13
2535.0	21100	6.11	13	2535.0	21100	6.01	13
2567.5	21375	6.07	13	2565.0	21350	5.96	13

LTE BAND 7							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2507.5	20825	5.11	13	2510	20850	6.01	13
2535.0	21100	5.95	13	2535	21100	5.83	13
2562.5	21375	5.85	13	2560	21350	5.84	13

LTE BAND 12							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
699.7	23017	5.88	13	700.5	23025	6.34	13
707.5	23095	5.56	13	707.5	23095	5.76	13
715.3	23173	5.86	13	714.5	23165	6.40	13

LTE BAND 12							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
701.5	23035	5.53	13	704.0	23060	6.56	13
707.5	23095	6.09	13	707.5	23095	6.42	13
713.5	23155	6.31	13	711.0	23130	6.12	13

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
779.5	23205	6.39	13	782.0	23230	6.28	13
782.0	23230	6.57	13				
784.5	23255	6.34	13				

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LTE BAND 17							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
706.5	23755	4.96	13	709.0	23780	6.33	13
710.0	23790	5.75	13	710.0	23790	6.24	13
713.5	23825	6.19	13	711.0	23800	6.15	13

LTE BAND 26							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
814.7	26697	4.98	13	815.5	26705	5.36	13
831.5	26865	6.53	13	831.5	26865	6.48	13
848.3	27033	6.39	13	847.5	27025	6.33	13

LTE BAND 26							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
816.5	26715	5.67	13	820.0	26750	5.87	13
831.5	26865	5.94	13	831.5	26865	6.58	13
846.5	27015	6.19	13	844.0	26990	5.92	13

LTE BAND 26							
Channel bandwidth: 15MHz							
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
822.5	26775	6.17	13				
831.5	26865	6.29	13				
841.5	26965	5.94	13				

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LTE BAND 26 for part 90S							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
814.7	26697	6.12	13	815.5	26705	6.14	13
819.0	26740	6.24	13	819	26740	6.27	13
823.3	26783	5.29	13	822.5	26775	6.20	13

LTE BAND 26 for part 90S							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
816.5	26715	6.33	13	819.0	26740	6.52	13
819.0	26740	6.48	13				
821.5	26765	6.25	13				

LTE BAND 30							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		6.64	Limit			6.64	Limit
2307.5	27685	6.15	13	2310.0	27710	5.99	13
2310.0	27710	6.07	13				
2312.5	27735	6.00	13				

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LTE BAND 38							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2572.5	37775	9.09	13	2575	37800	8.91	13
2595.0	38000	8.71	13	2595	38000	10.62	13
2617.5	38225	8.93	13	2615	38200	8.65	13

LTE BAND 38							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2577.5	37825	6.51	13	2580.0	37850	7.15	13
2595.0	38000	9.91	13	2595.0	38000	9.12	13
2612.5	38175	12.55	13	2610.0	38150	9.87	13

LTE BAND 41							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2498.5	39675	7.20	13	2501.0	39700	11.71	13
2593.0	40620	7.68	13	2593.0	40620	7.67	13
2687.5	41565	9.79	13	2685.0	41540	10.89	13

LTE BAND 41							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
2503.5	39725	11.54	13	2506.0	39750	7.62	13
2593.0	40620	9.28	13	2593.0	40620	10.29	13
2682.5	41515	8.65	13	2680.0	41490	8.60	13

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LTE BAND 66							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1710.7	131979	6.27	13	1711.5	131987	6.12	13
1745.0	132322	6.11	13	1745.0	132322	6.18	13
1779.3	132665	6.12	13	1778.5	132657	6.05	13

LTE BAND 66							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1712.5	131997	5.96	13	1715.0	132022	5.90	13
1745.0	132322	6.01	13	1745.0	132322	5.98	13
1777.5	132647	5.89	13	1775.0	132622	5.89	13

LTE BAND 66							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	Peak-to-		Freq. (MHz)	CH	Peak-to-	
		16QAM	Limit			16QAM	Limit
1717.5	132047	5.66	13	1720.0	132072	5.69	13
1745.0	132322	5.76	13	1745.0	132322	5.71	13
1772.5	132597	5.68	13	1770.0	132572	5.82	13

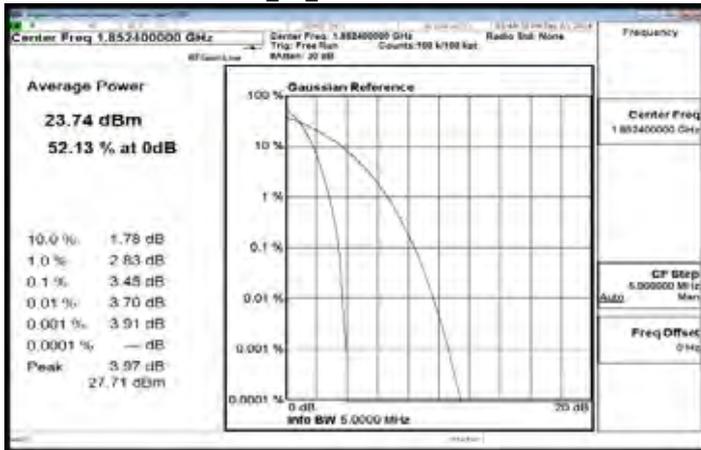
**Please refer to next page for test plots.**

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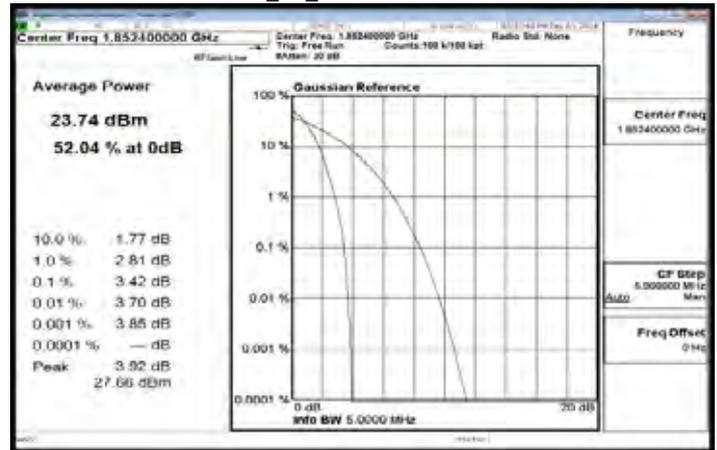
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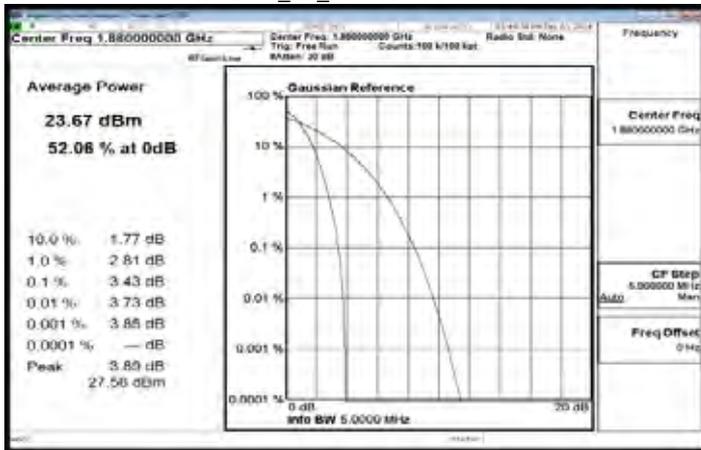
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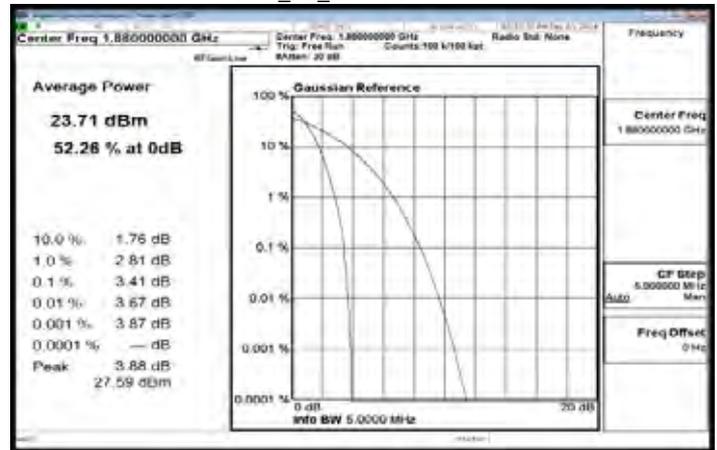
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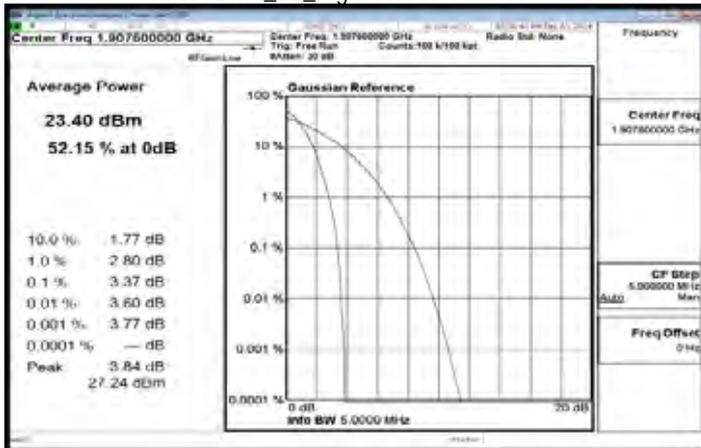
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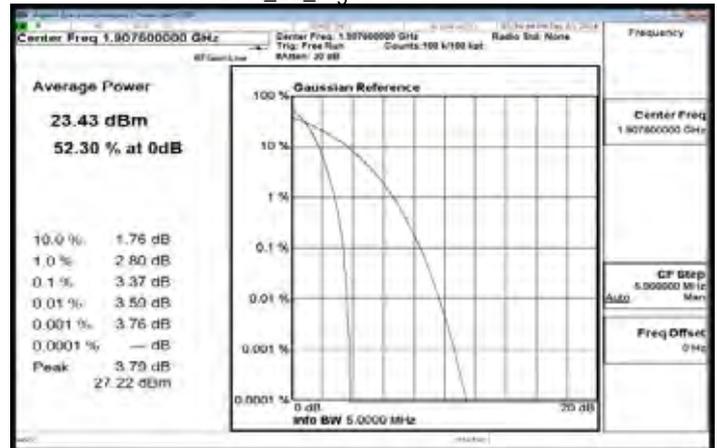
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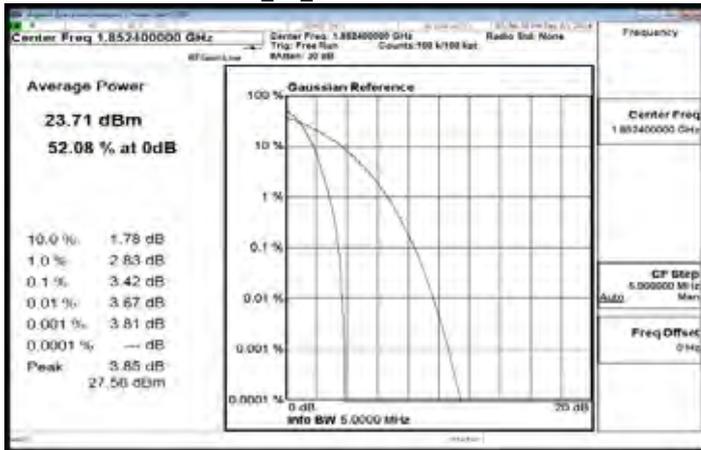


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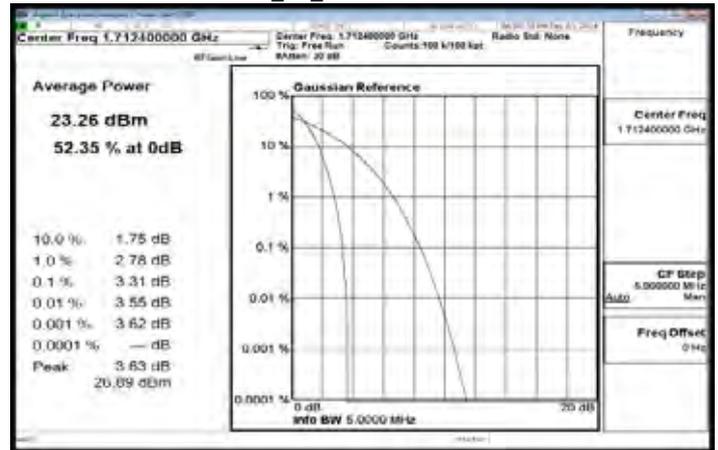
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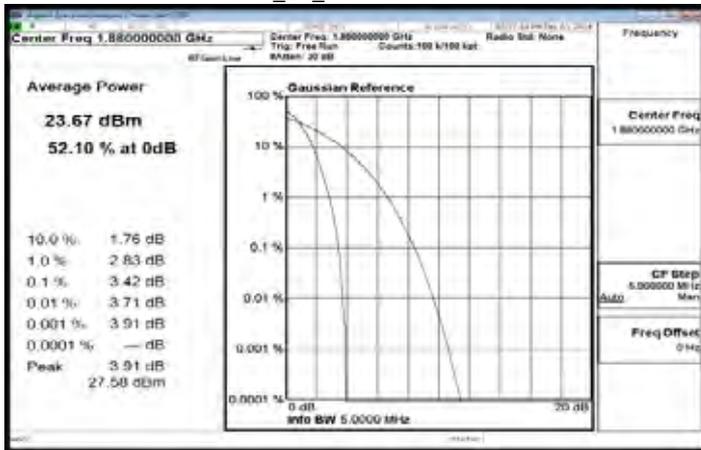
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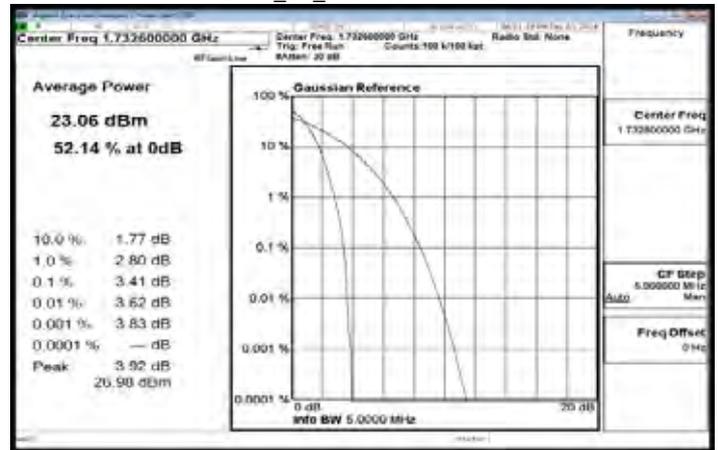
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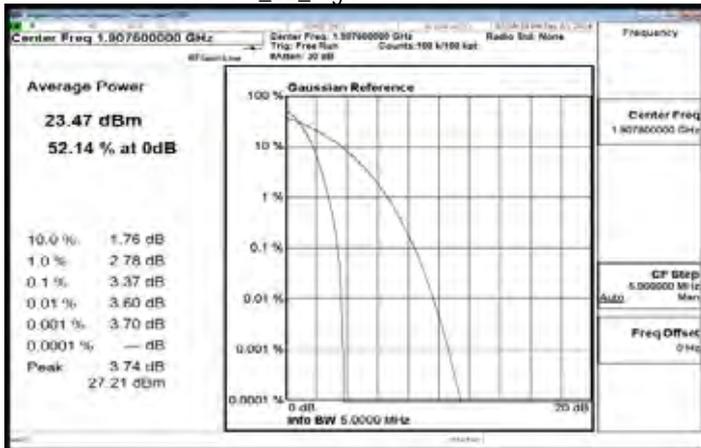
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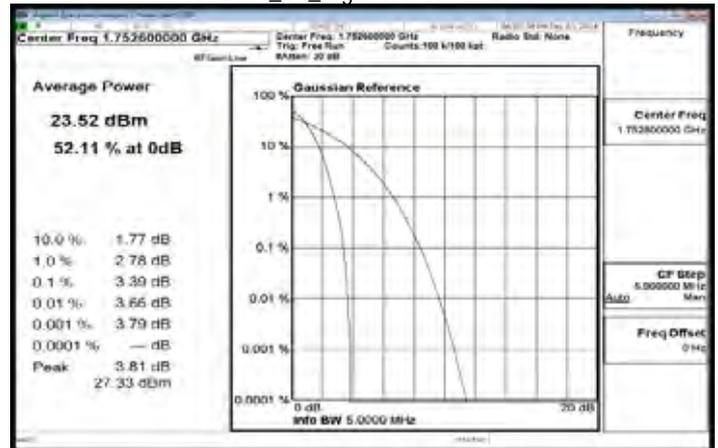
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HSUPA\_B2\_HighCH9538-1907.6



WCDMA\_B4\_HighCH1513-1752.6



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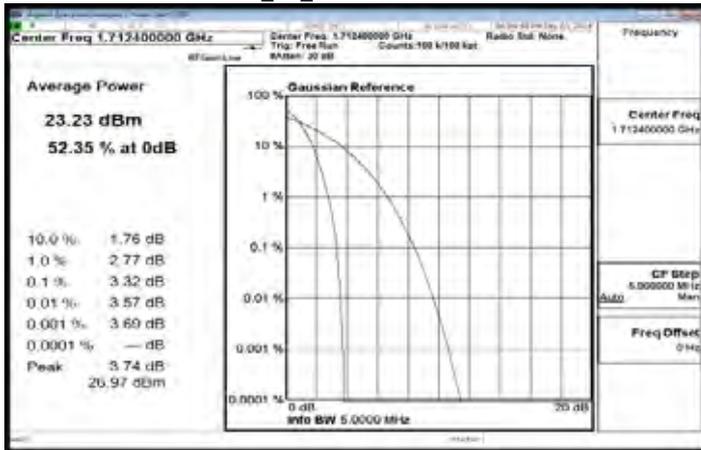
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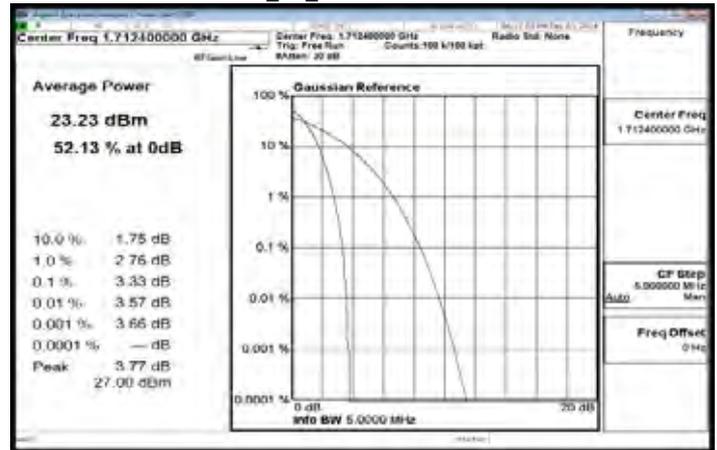
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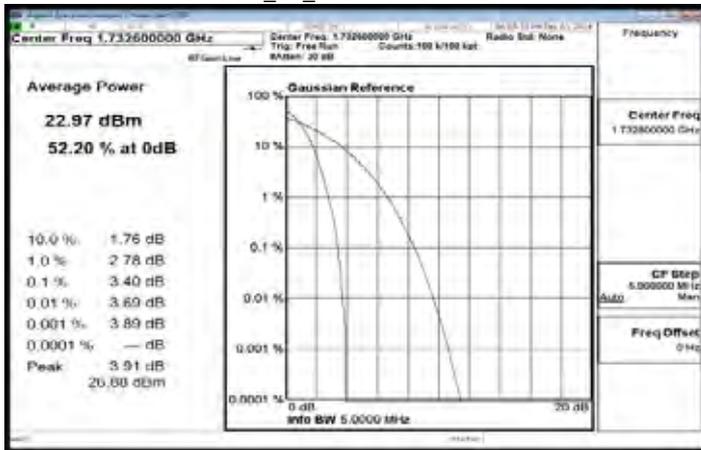
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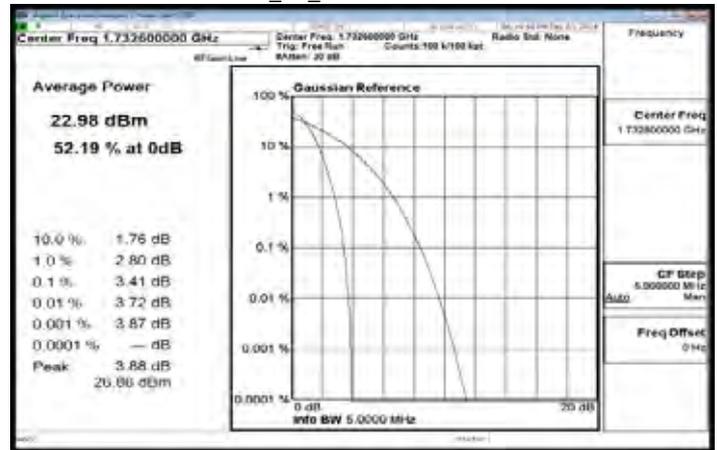
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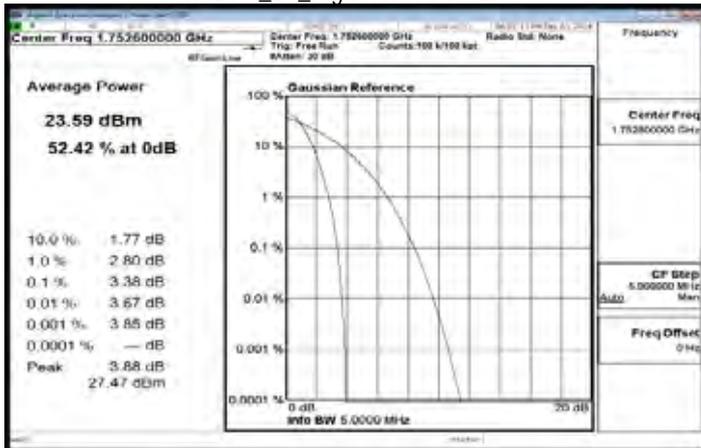
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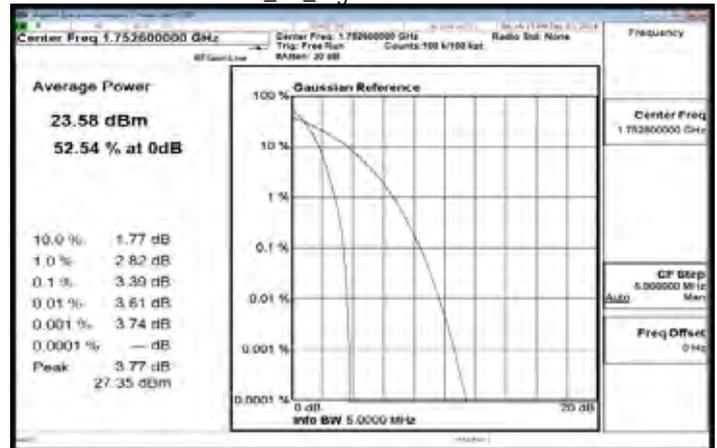
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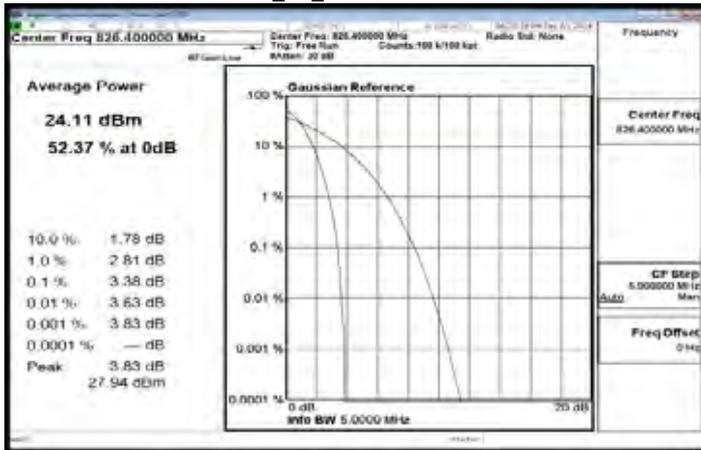


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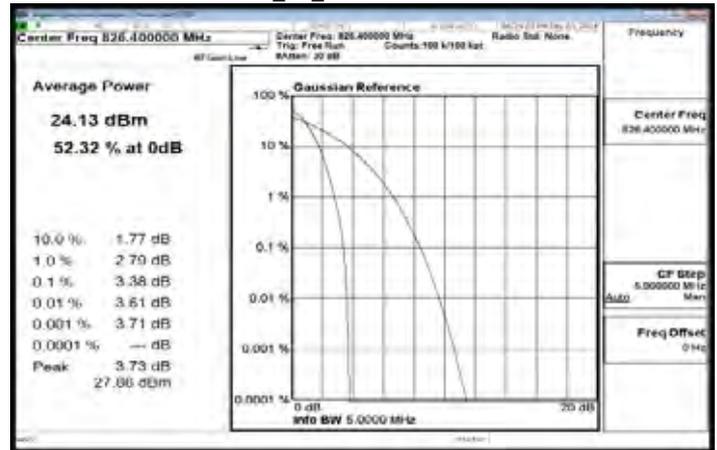
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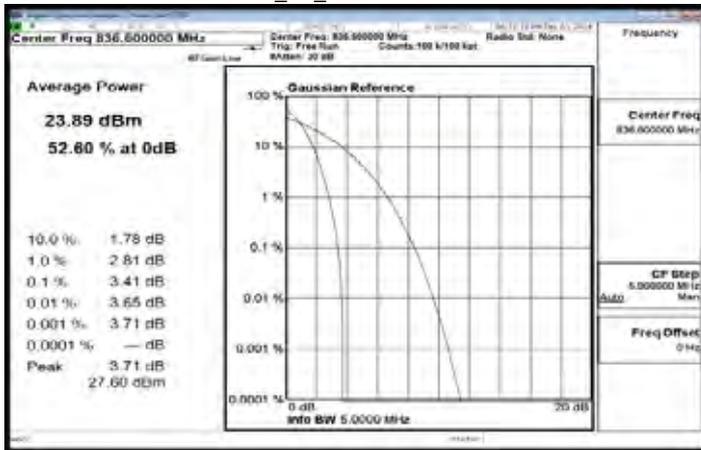
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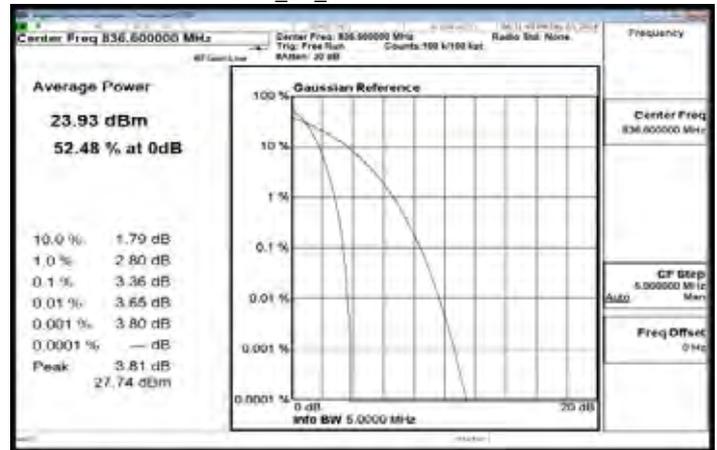
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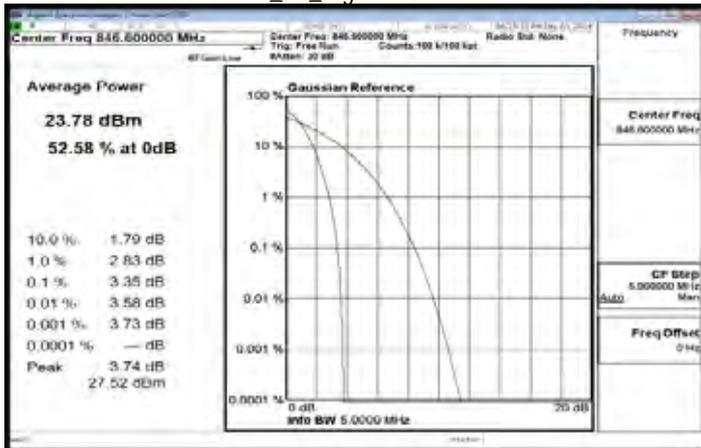
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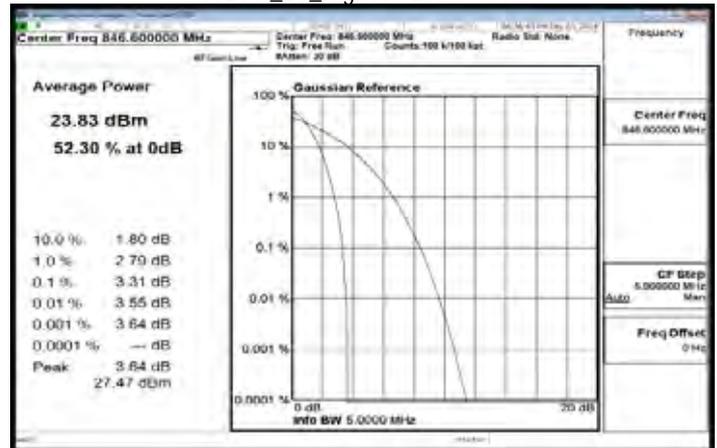
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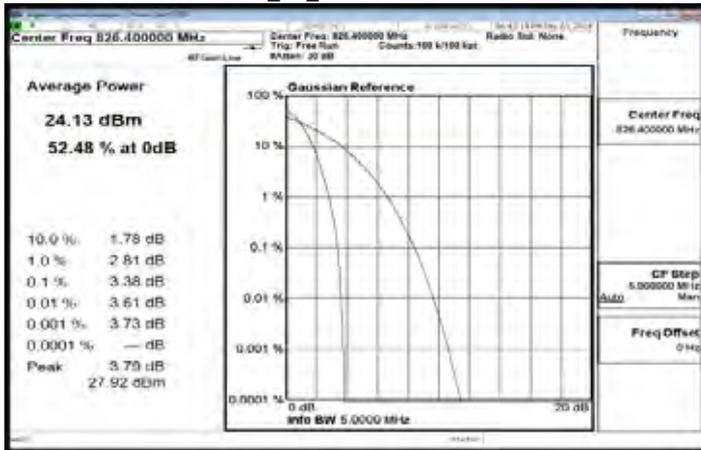


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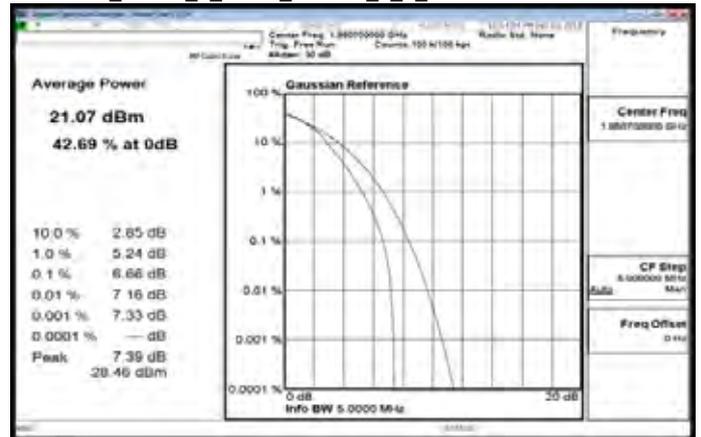
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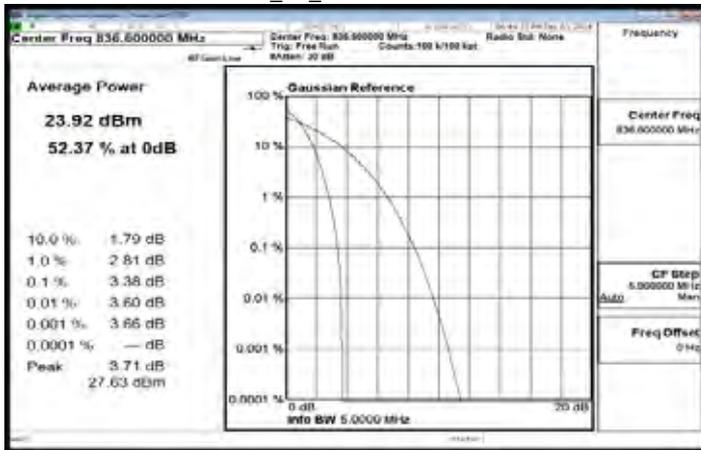
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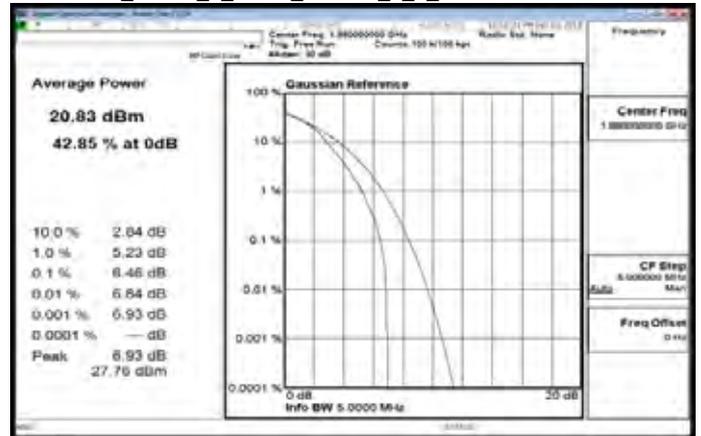
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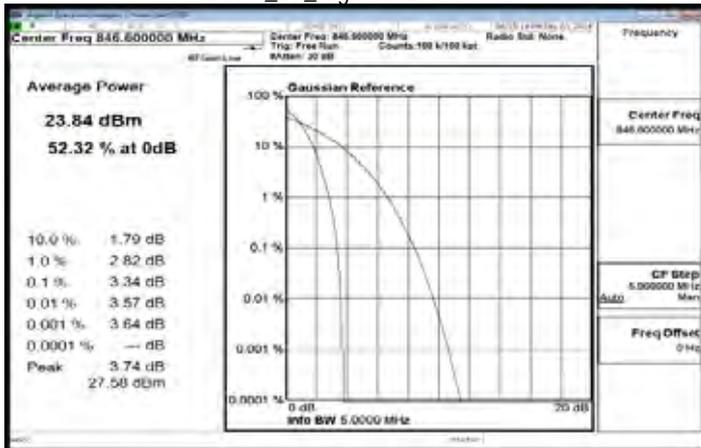
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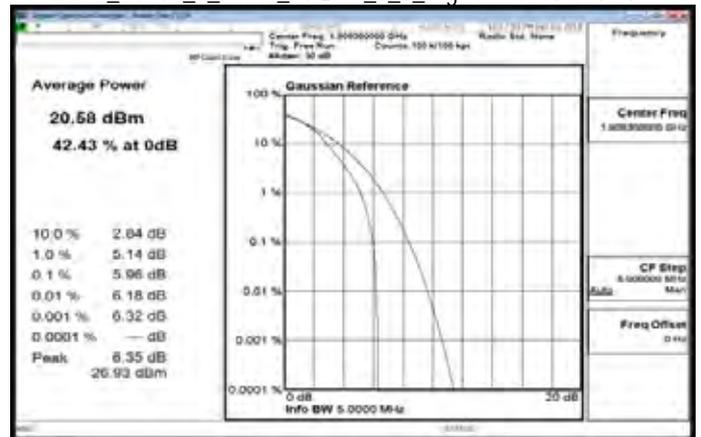
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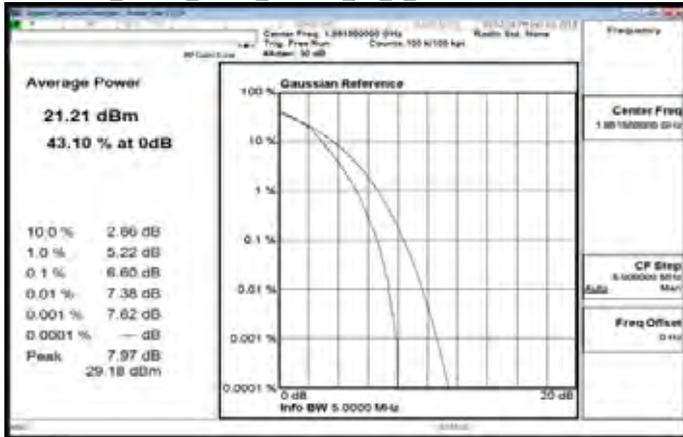
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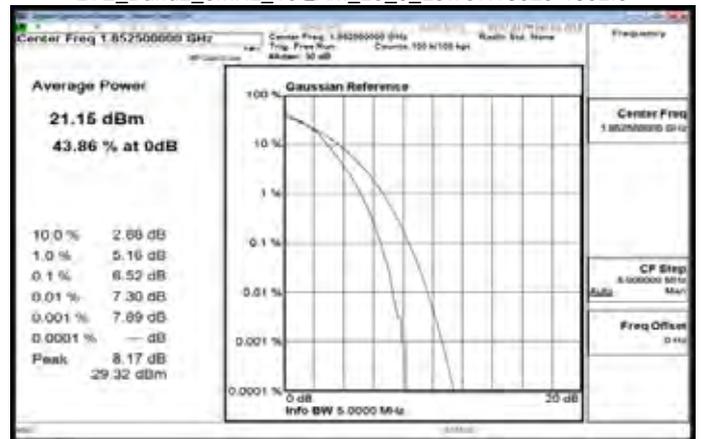
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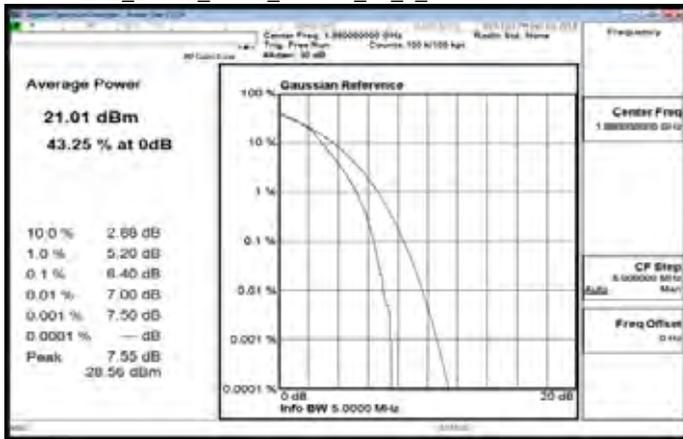
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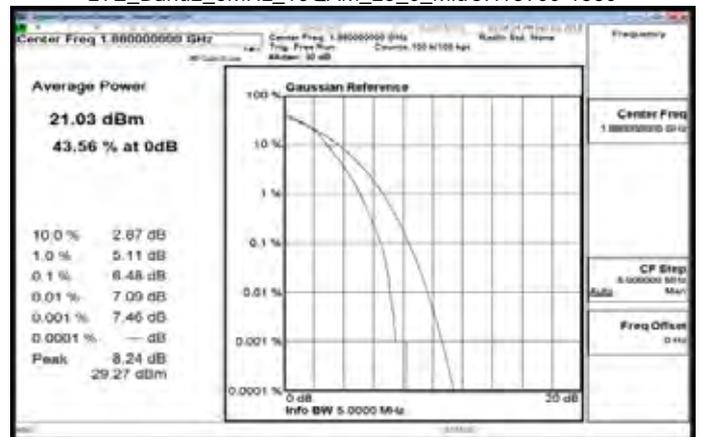
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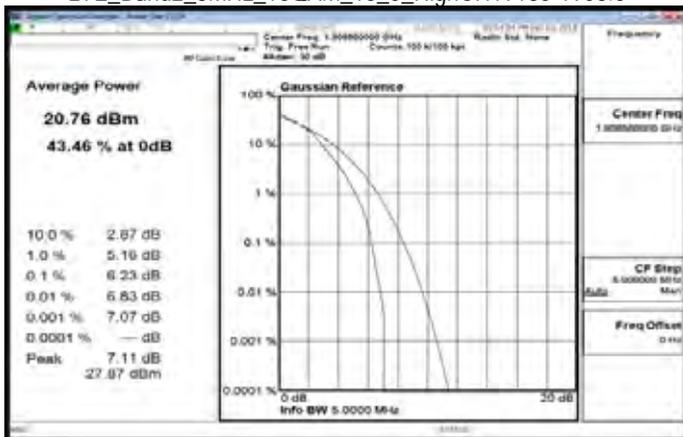
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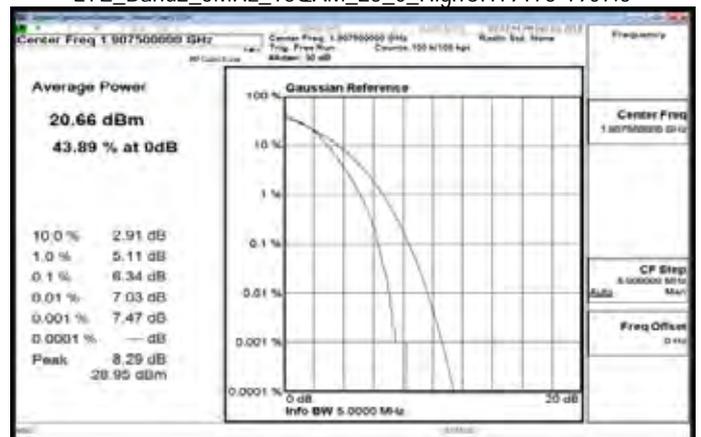
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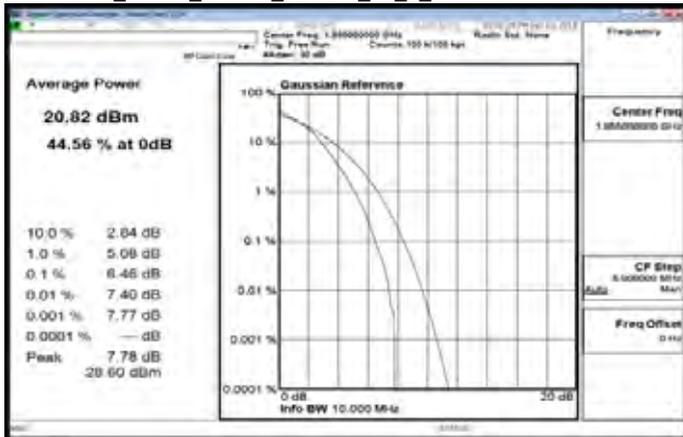
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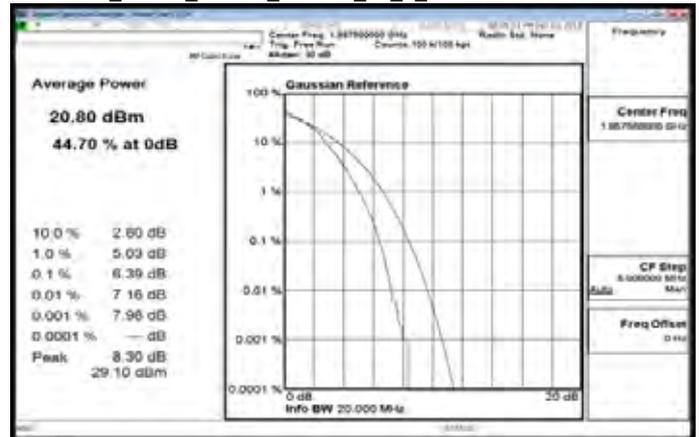
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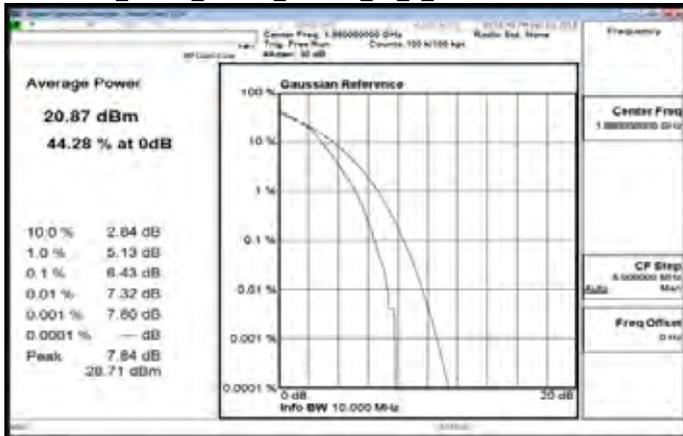
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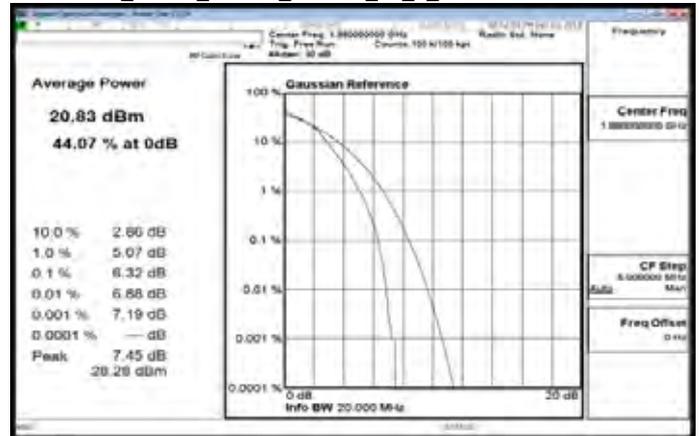
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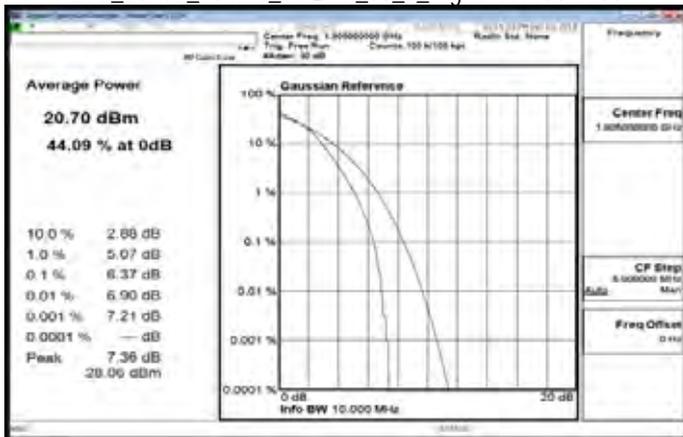
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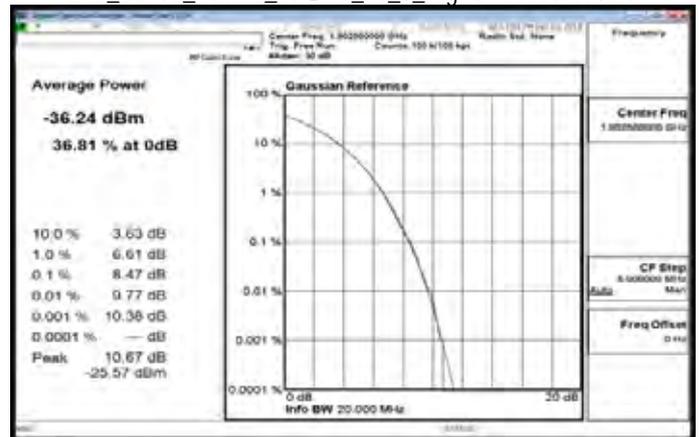
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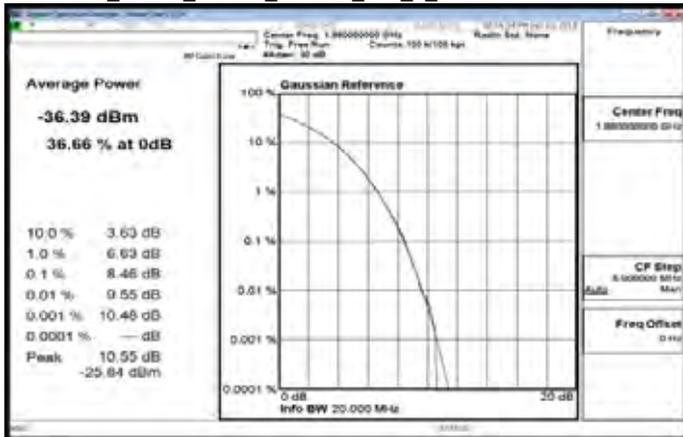
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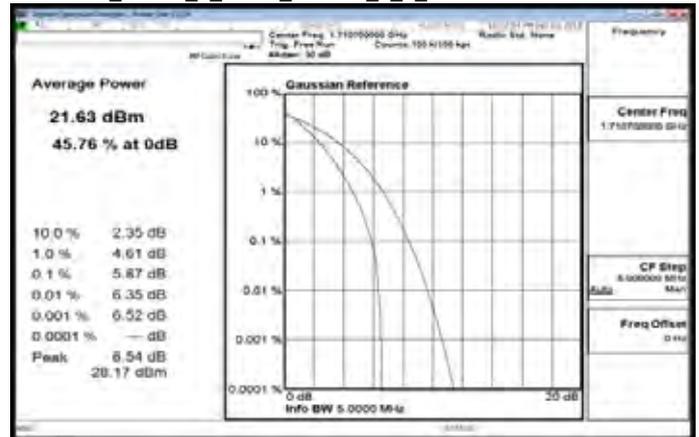
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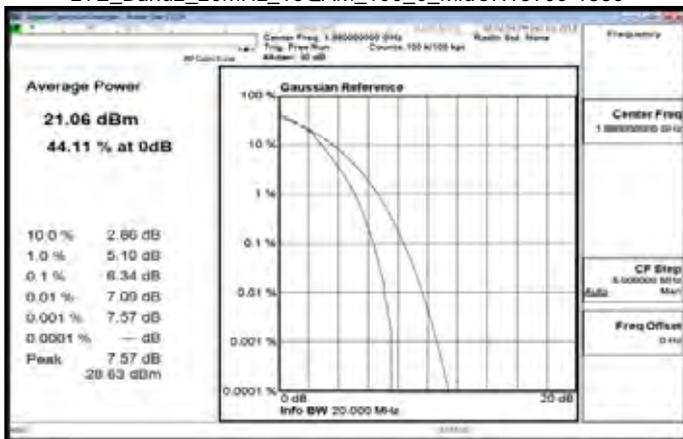
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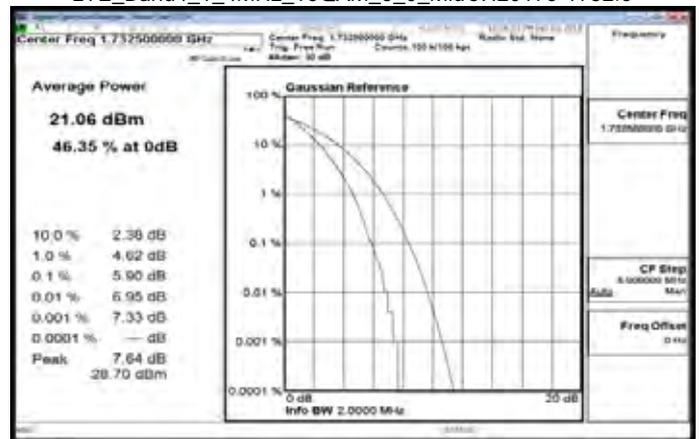
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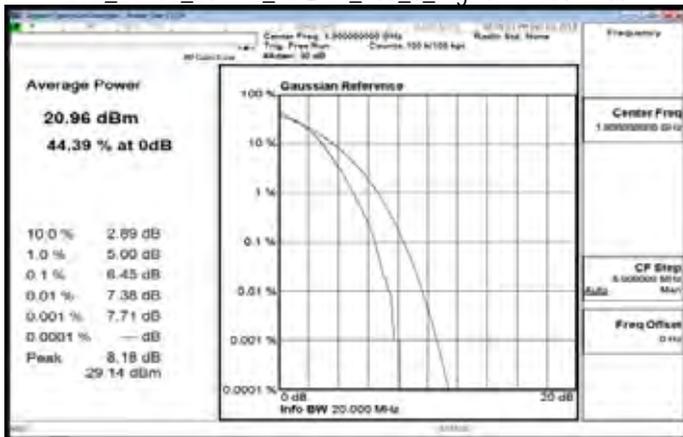
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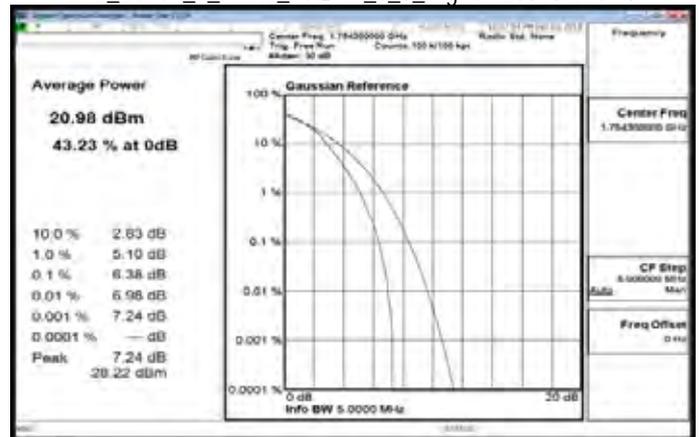
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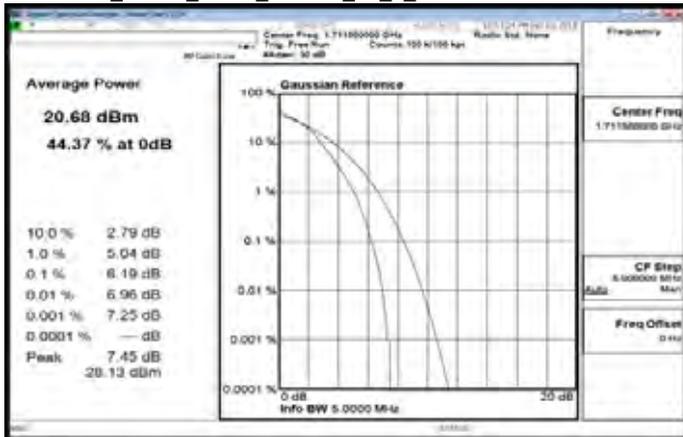
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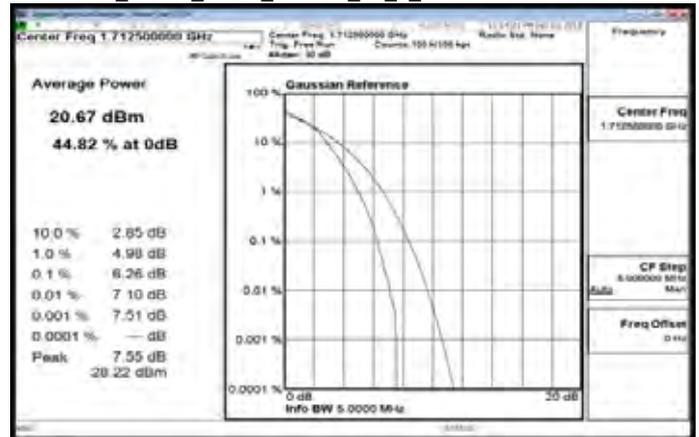
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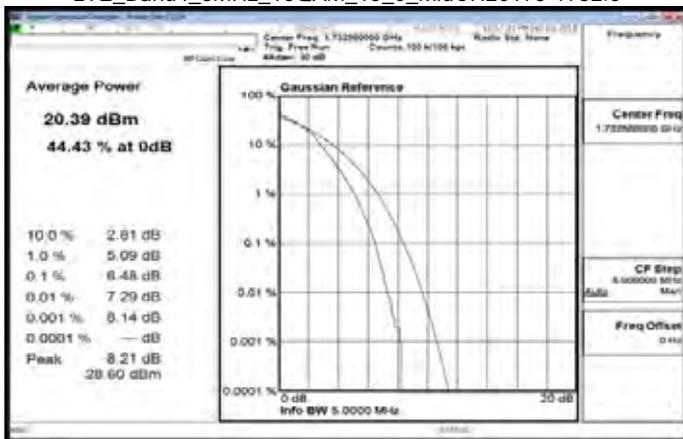
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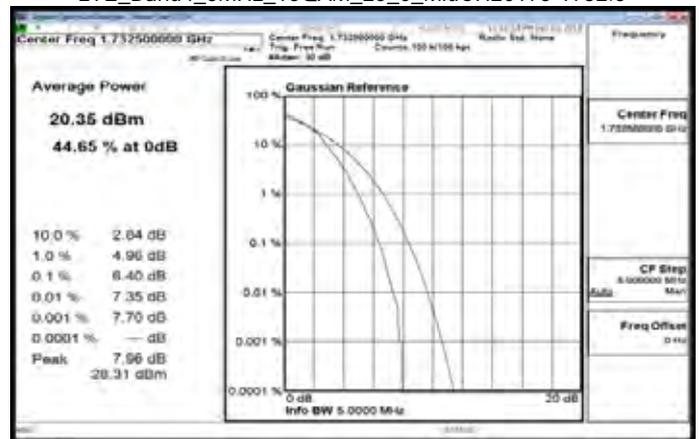
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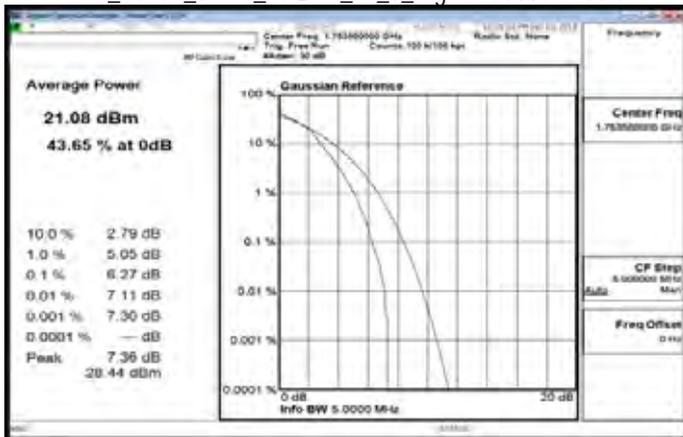
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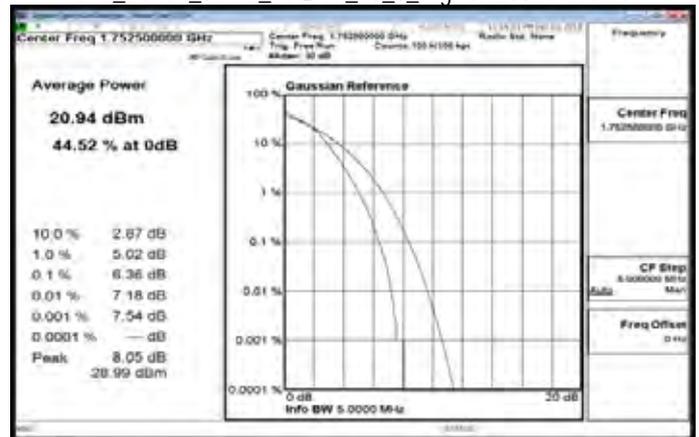
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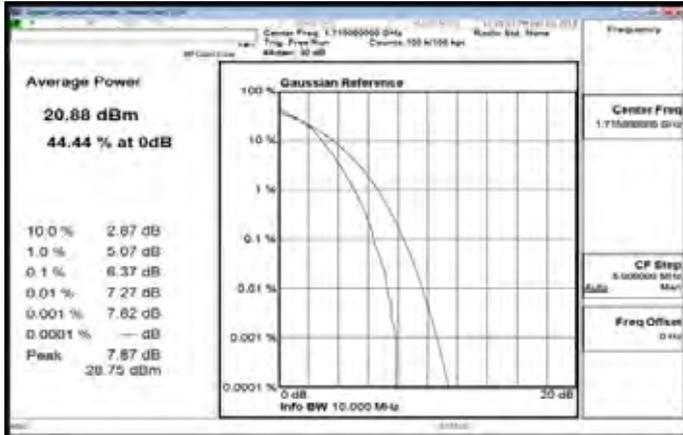
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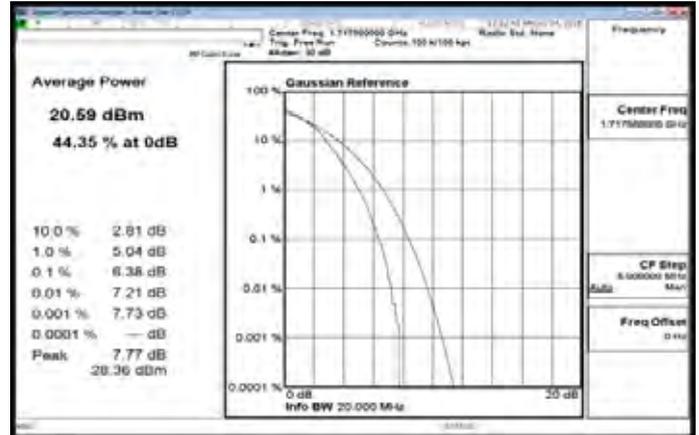
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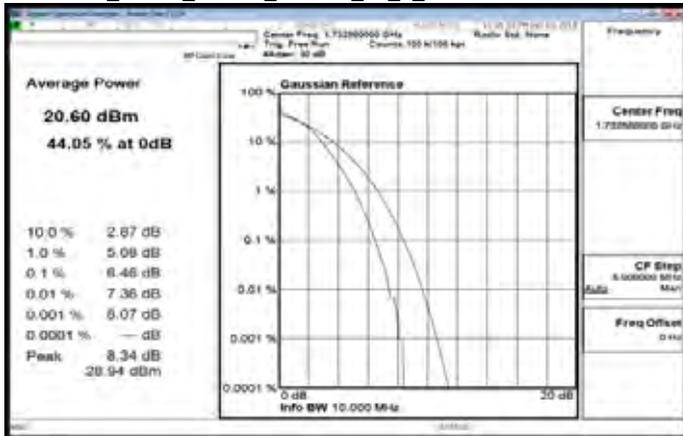
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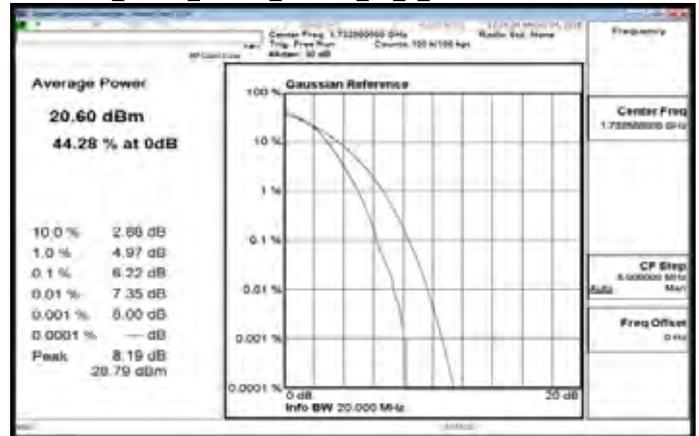
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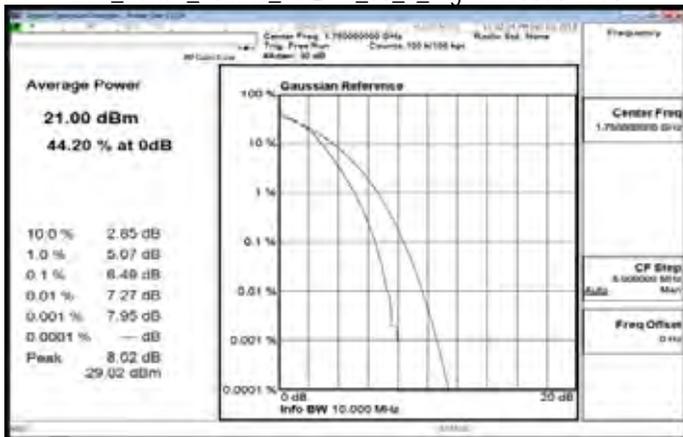
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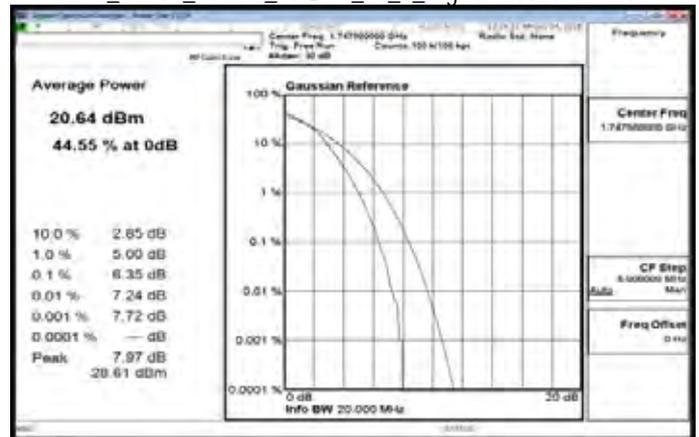
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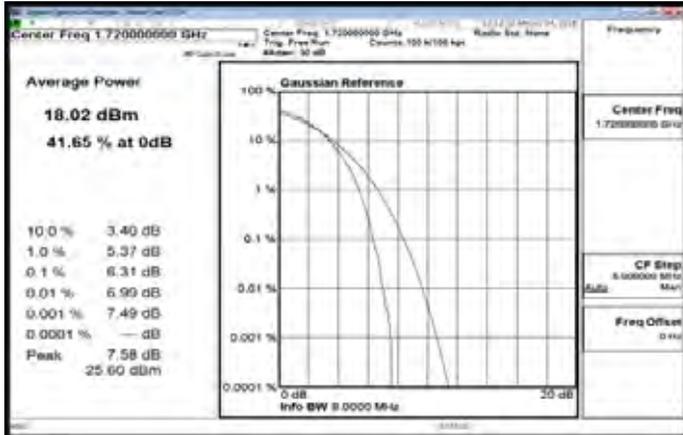
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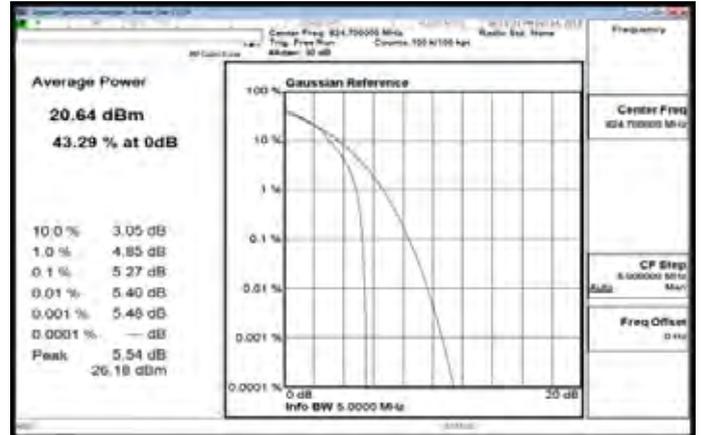
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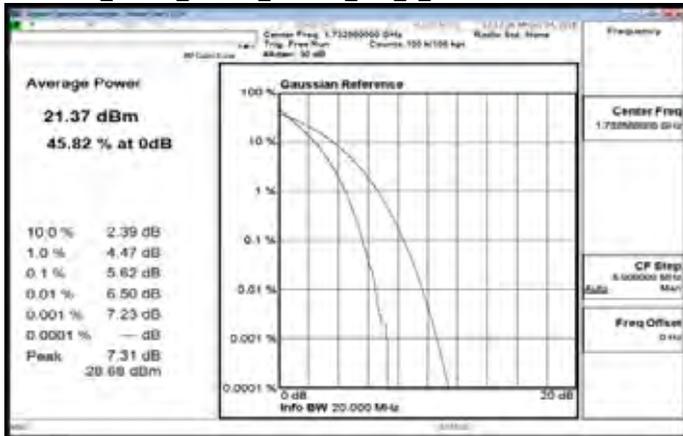
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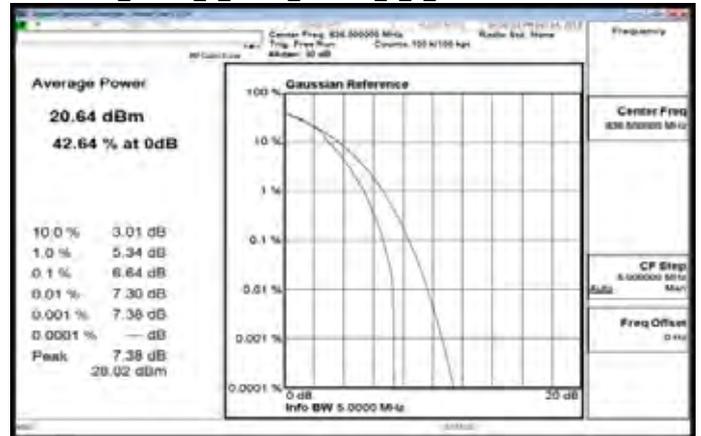
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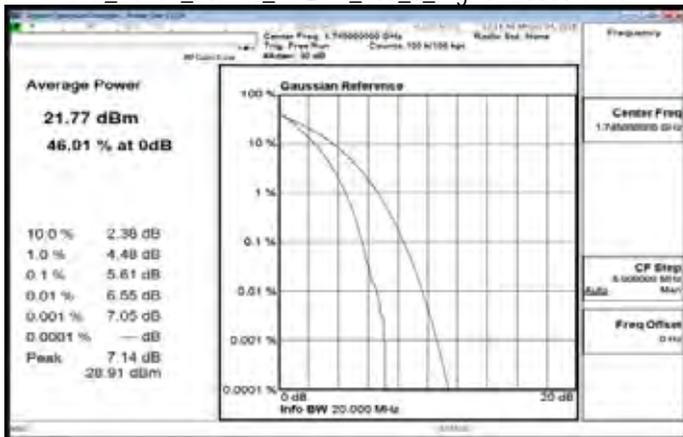
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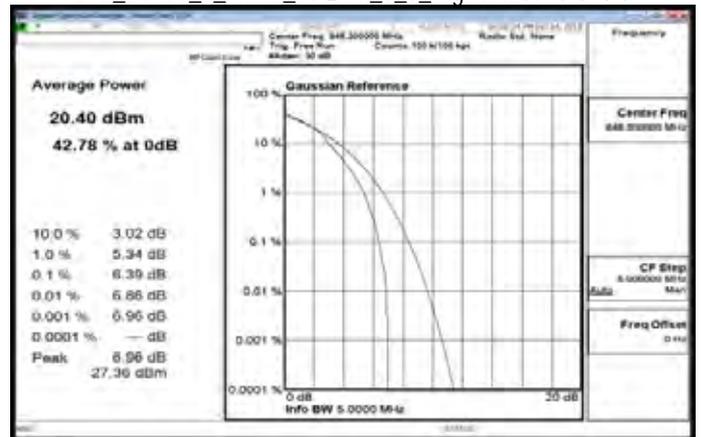
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LTE\_Band5\_1\_4MHz\_16QAM\_6\_0\_HighCH20643-848.3



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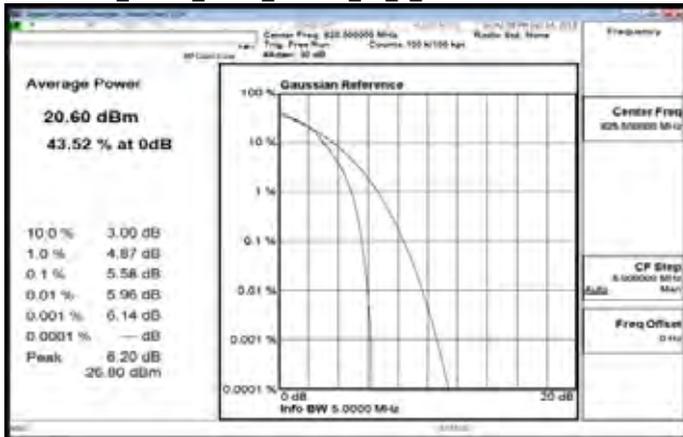
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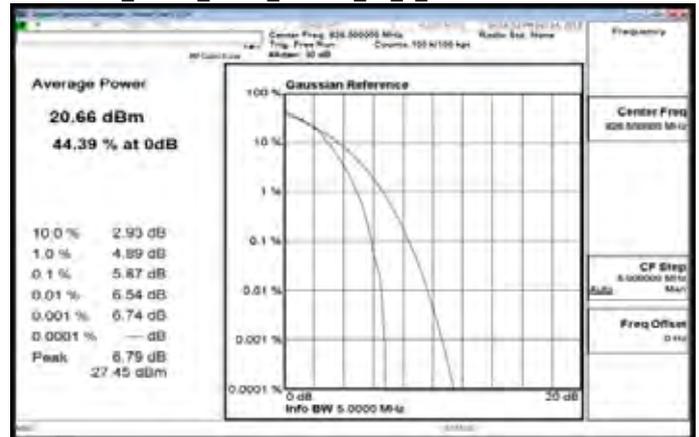
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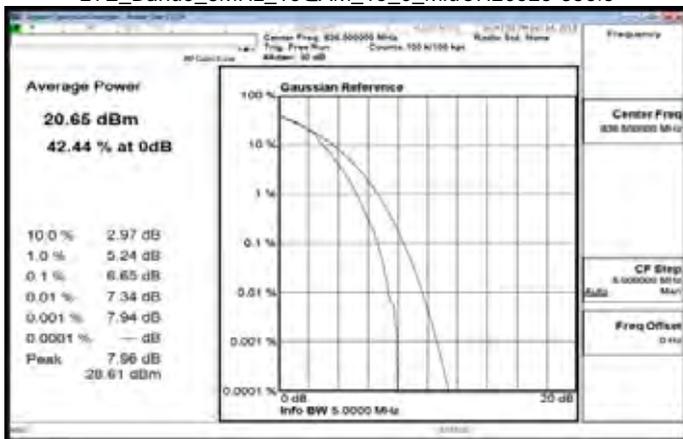
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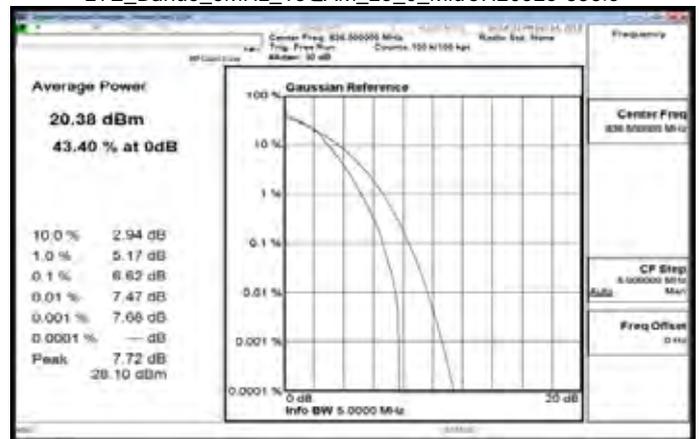
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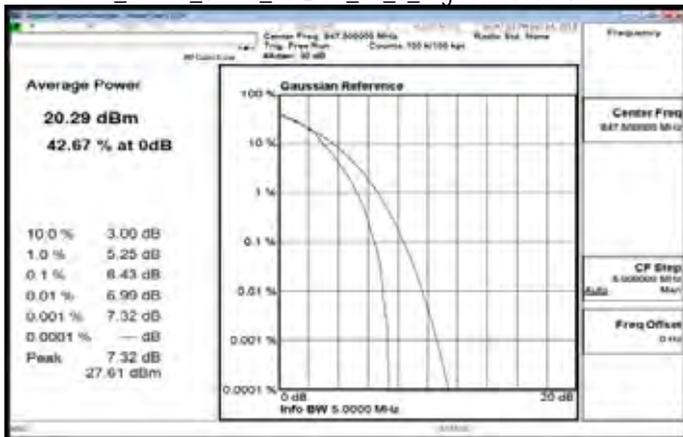
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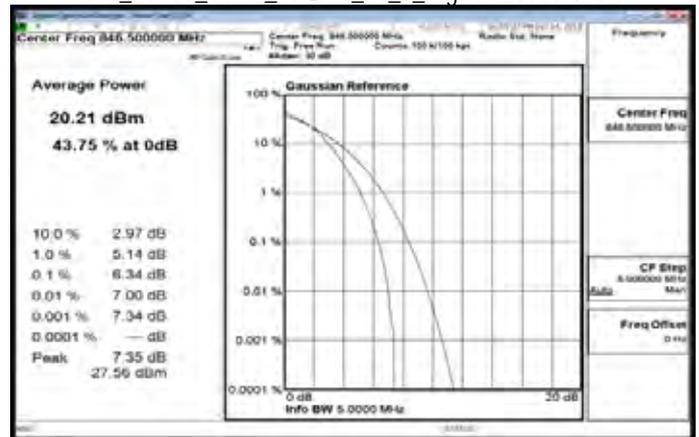
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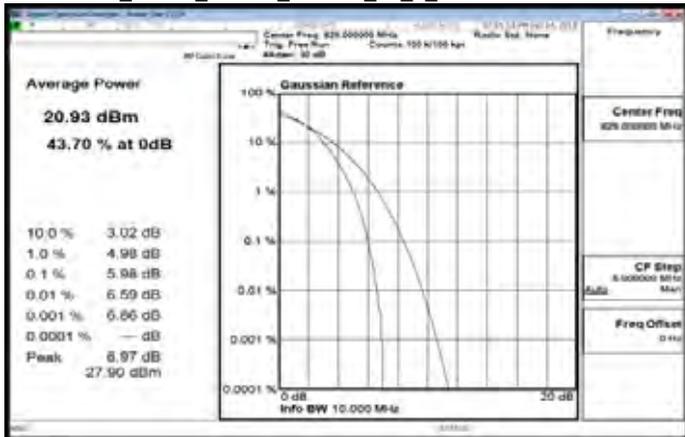
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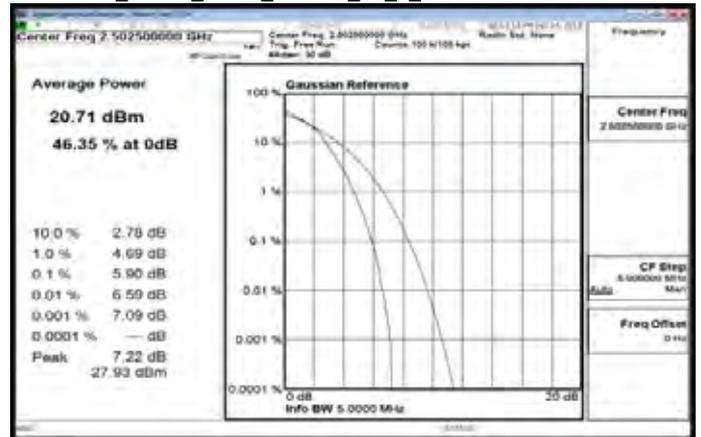
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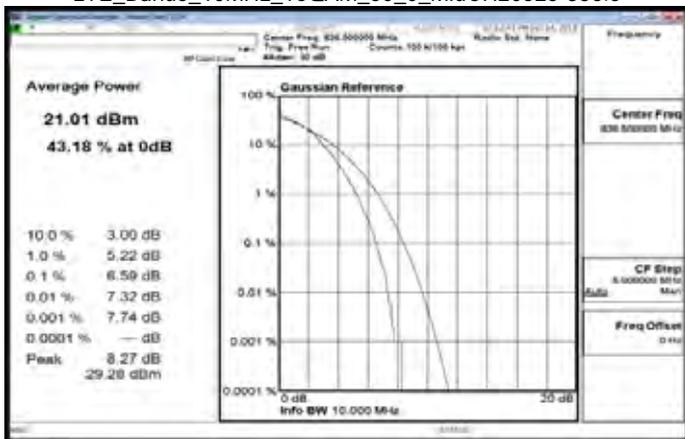
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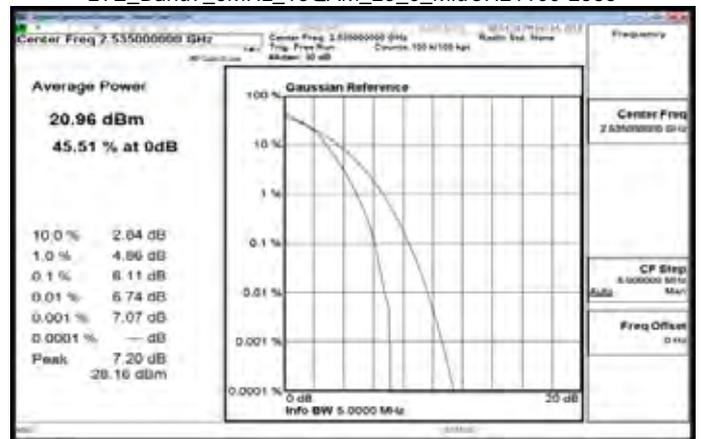
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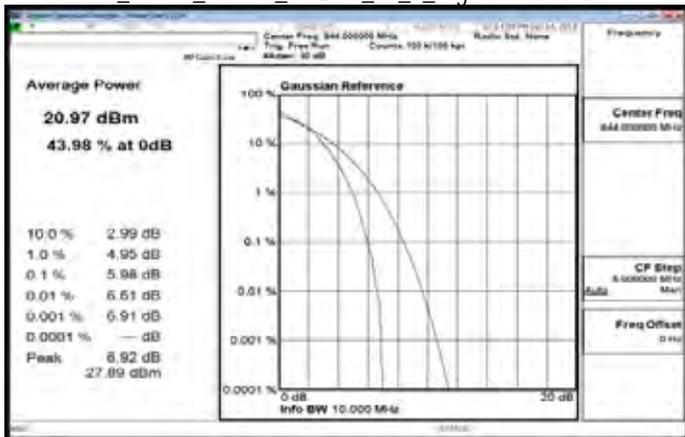
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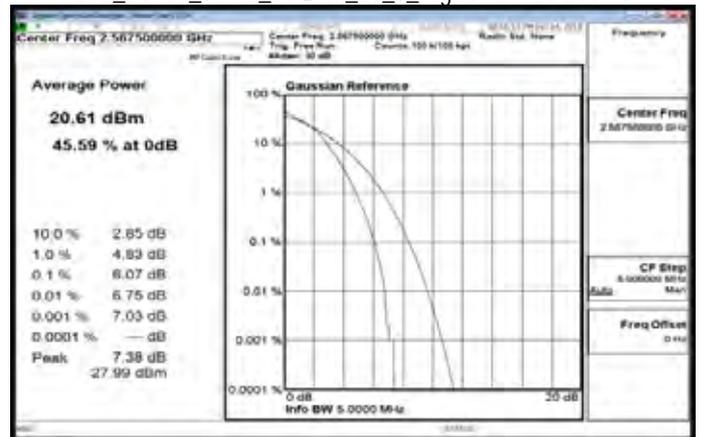
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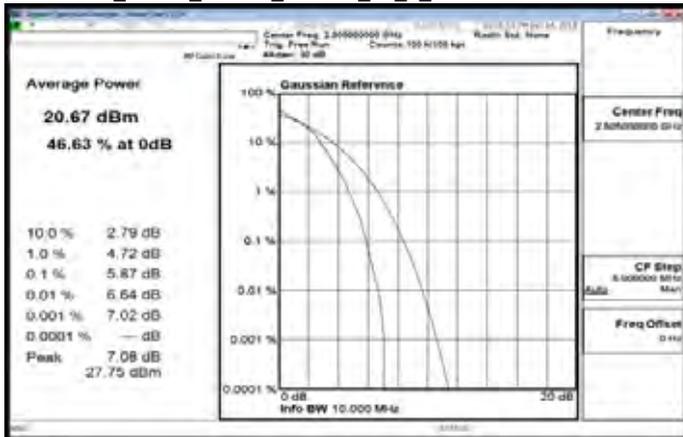


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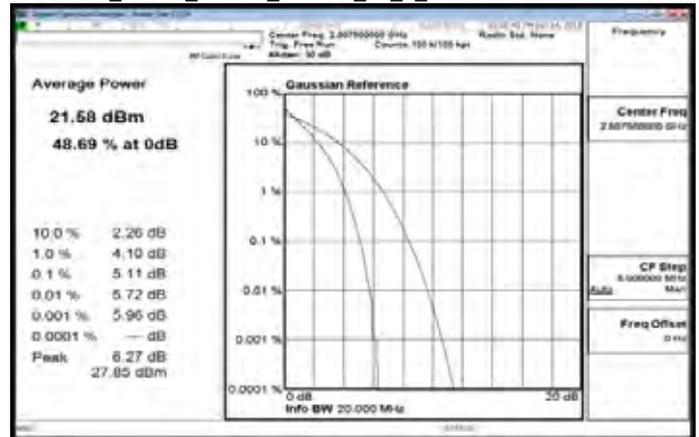
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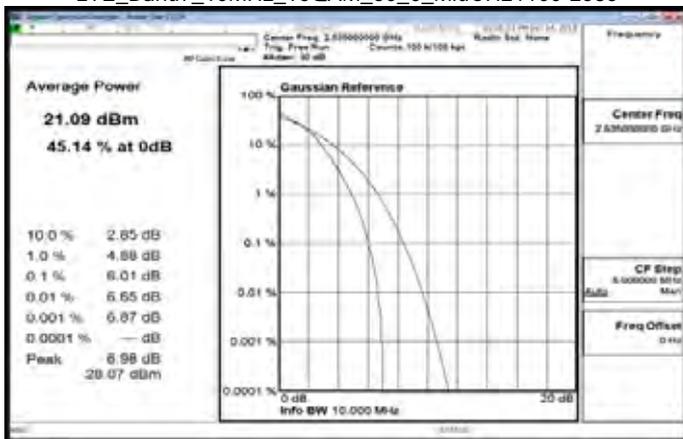
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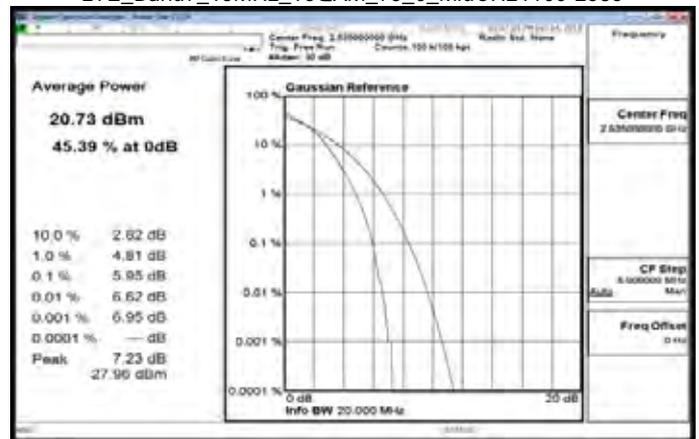
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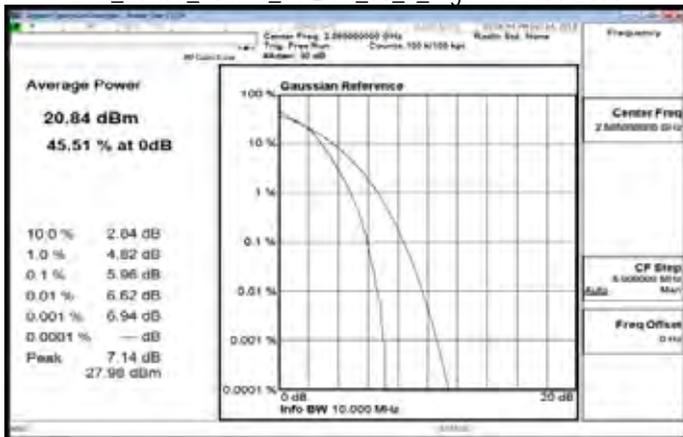
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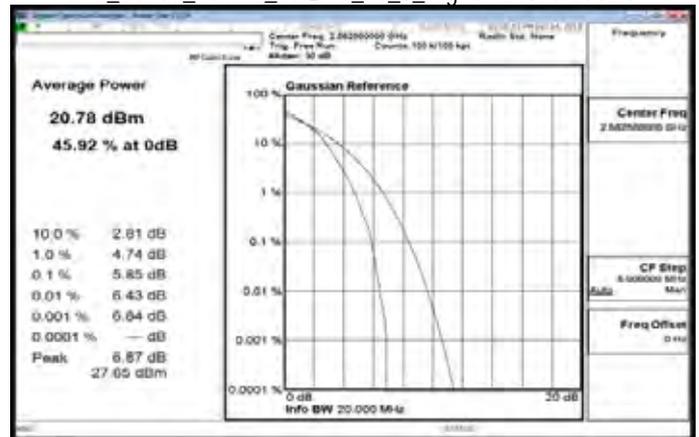
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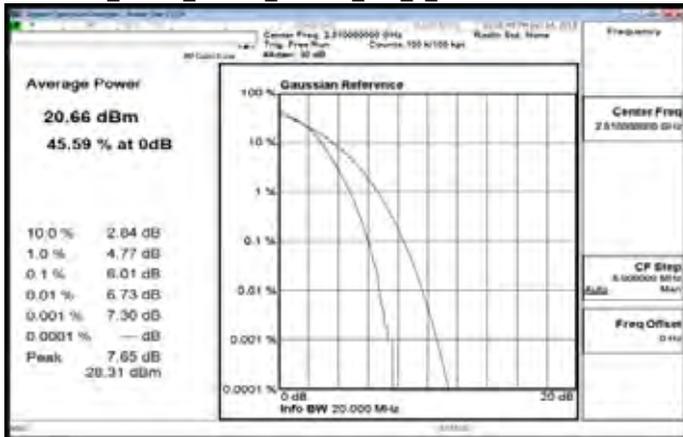
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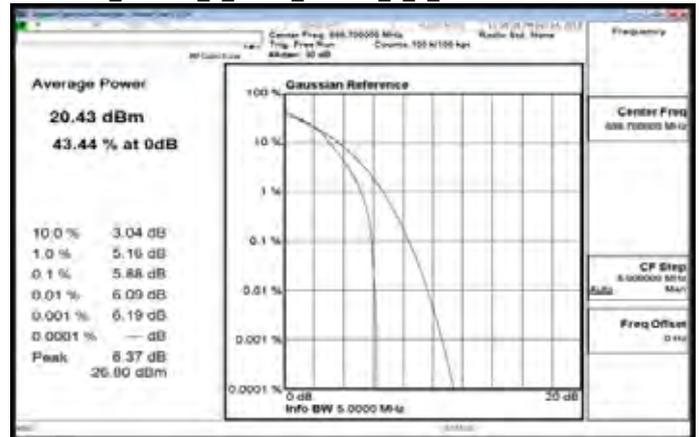
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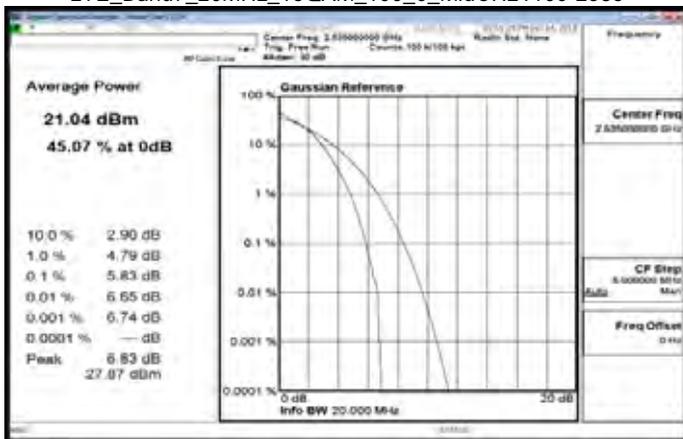
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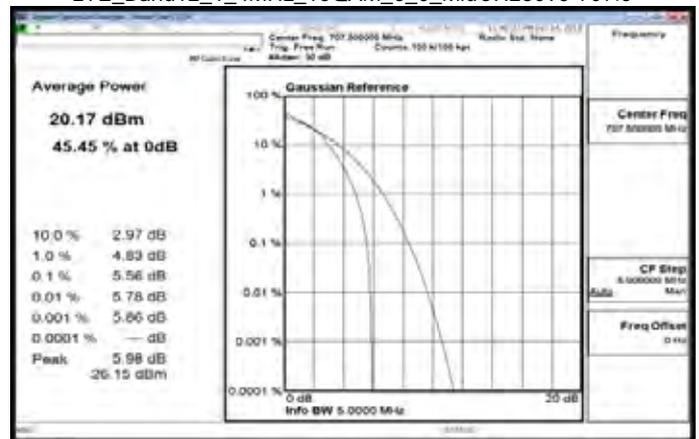
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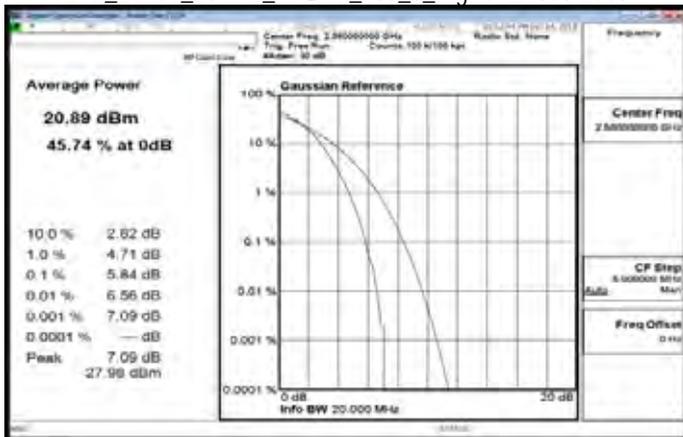
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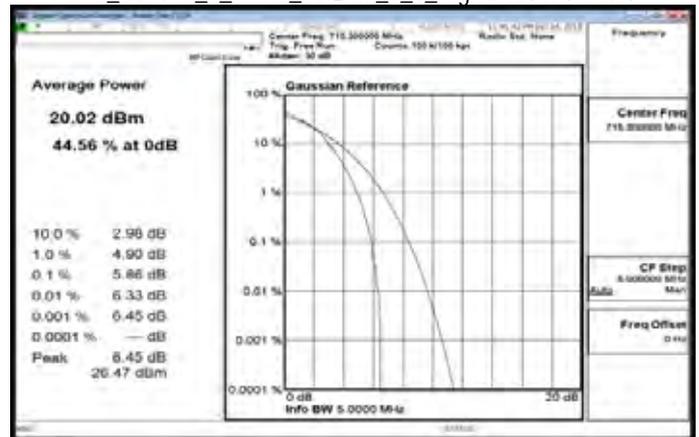
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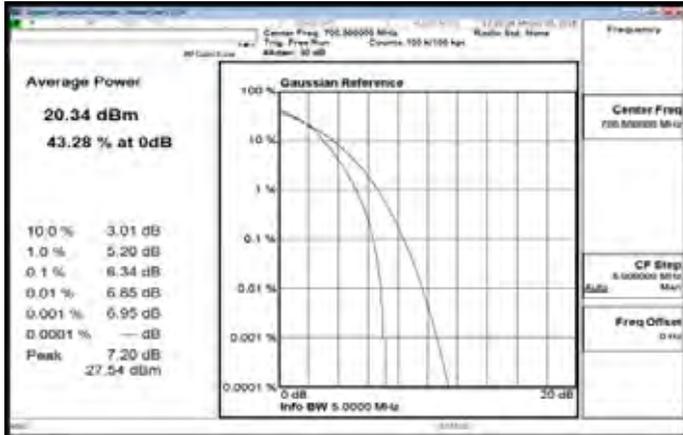
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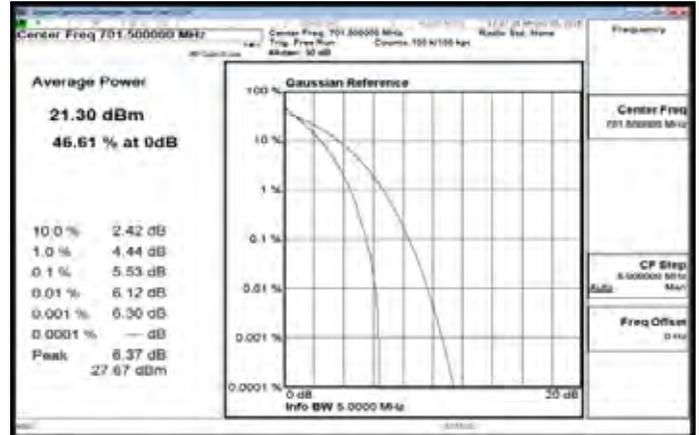
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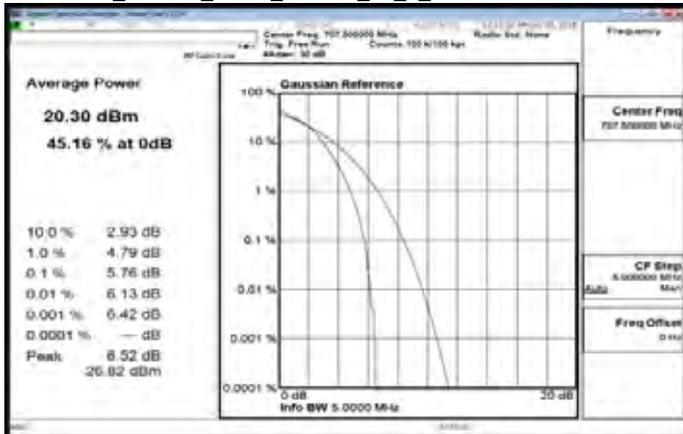
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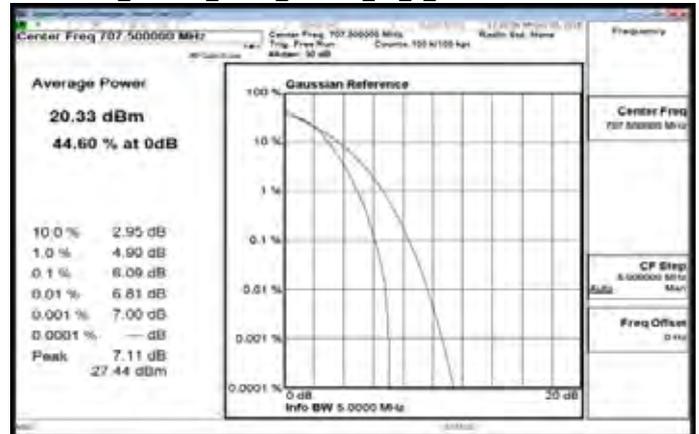
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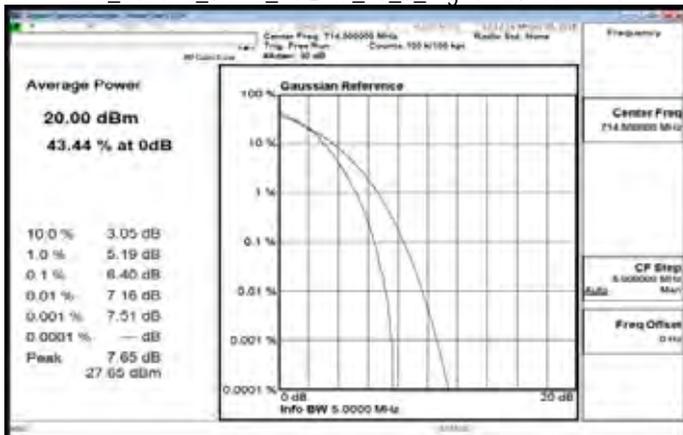
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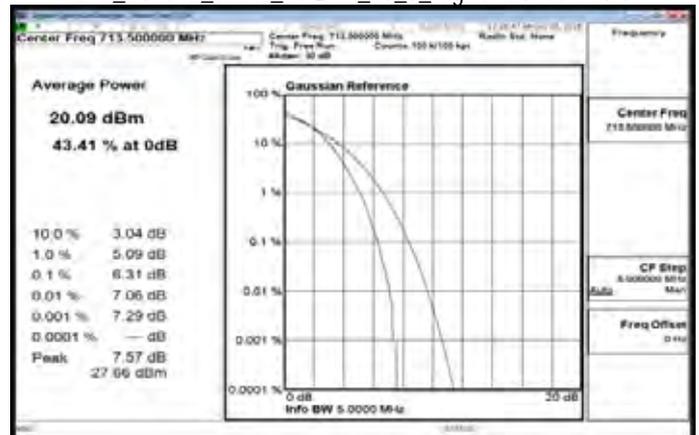
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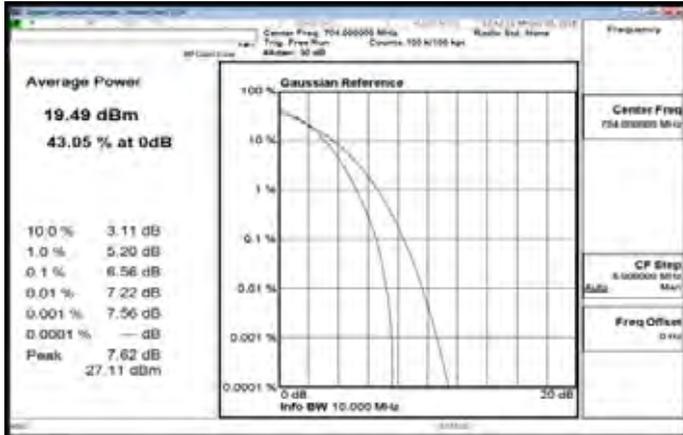
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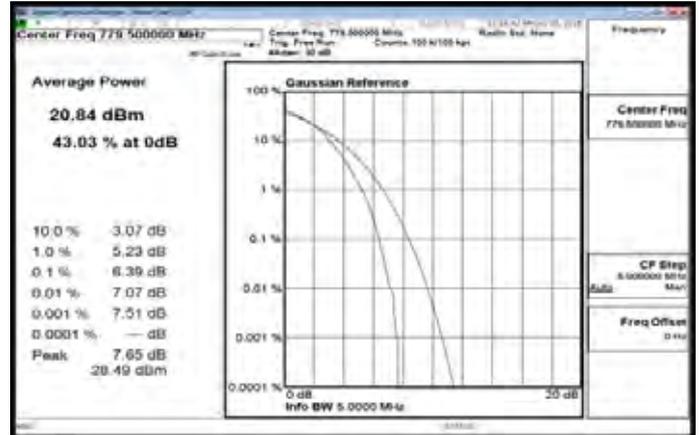
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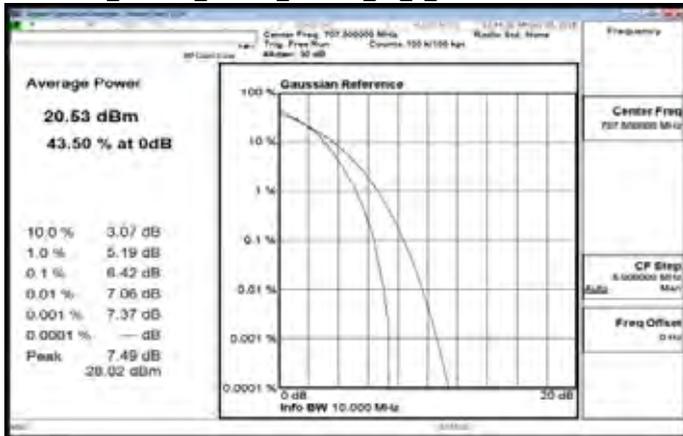
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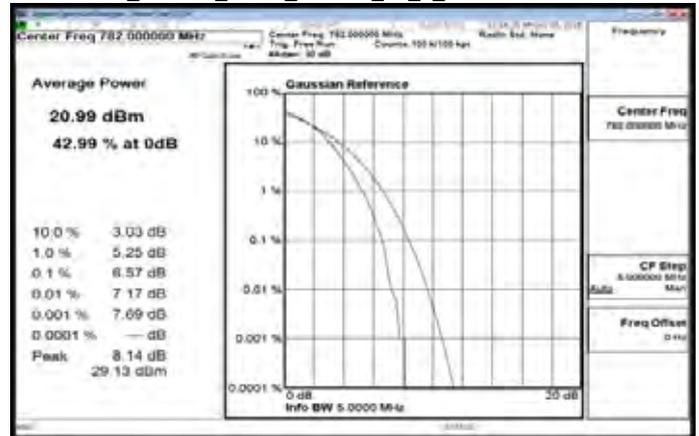
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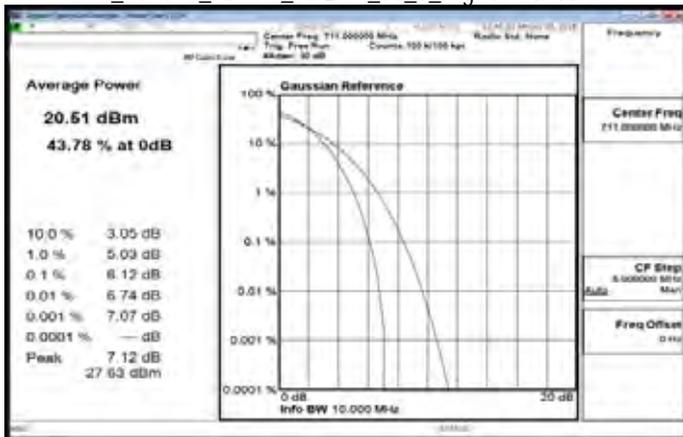
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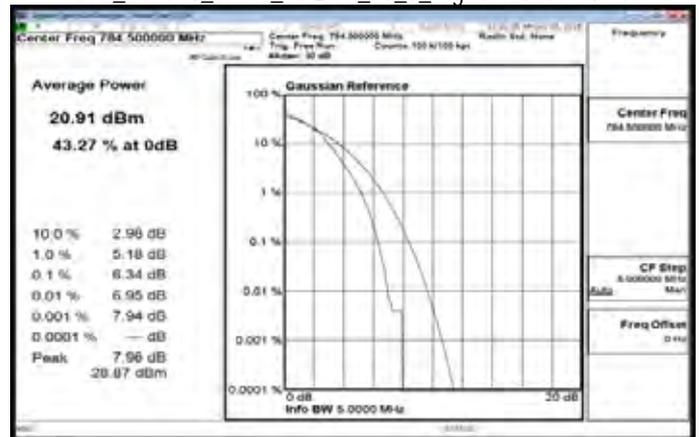
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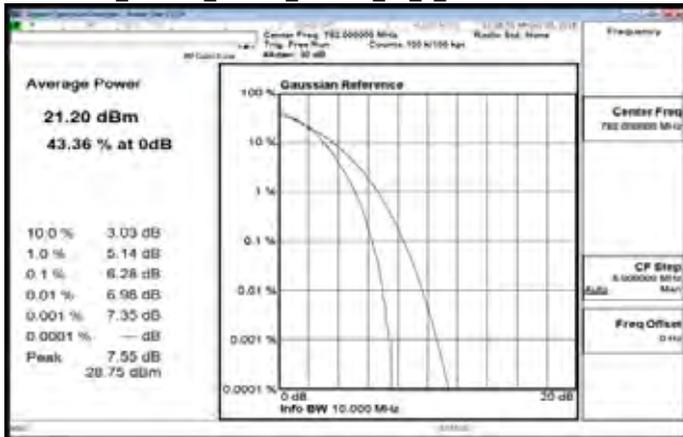
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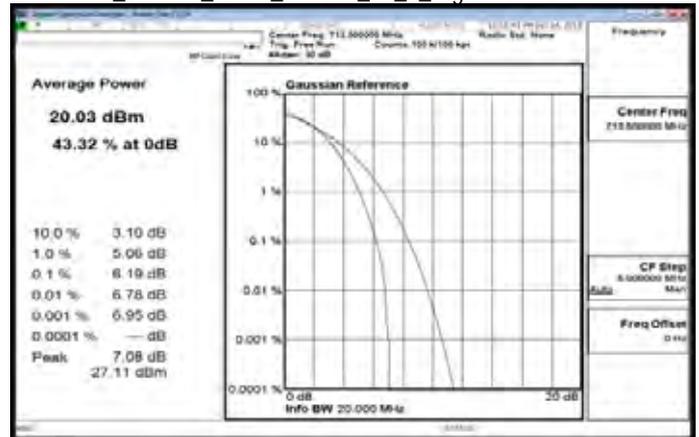
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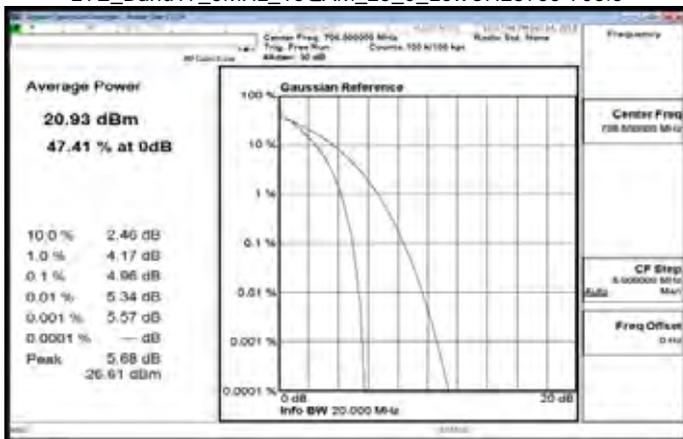
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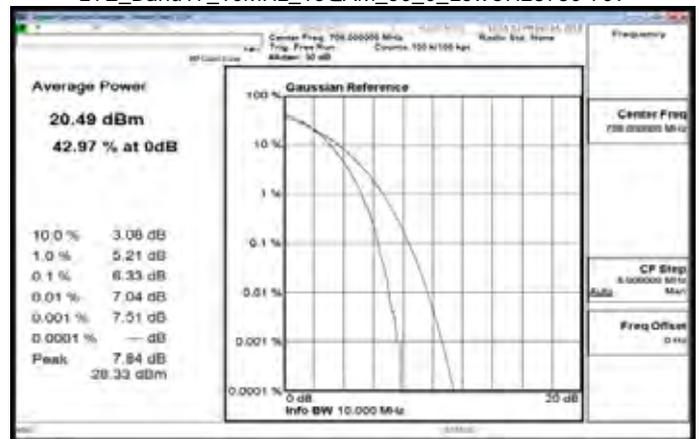
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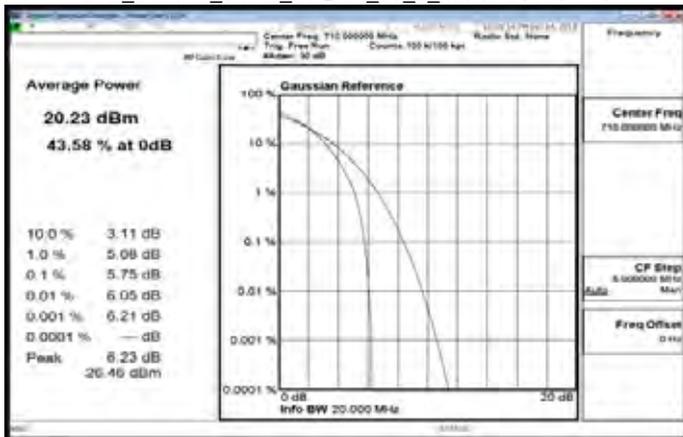
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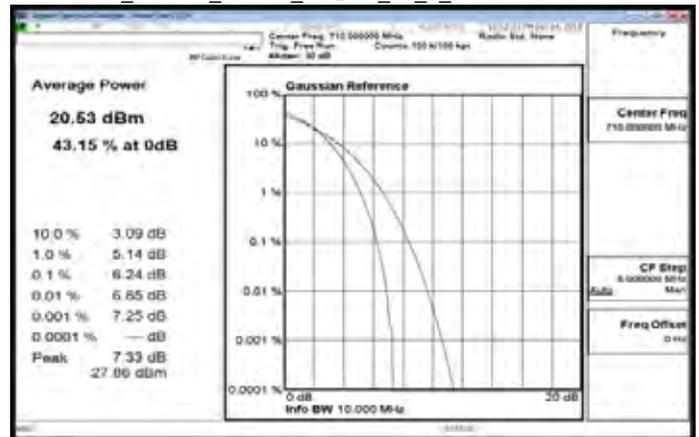
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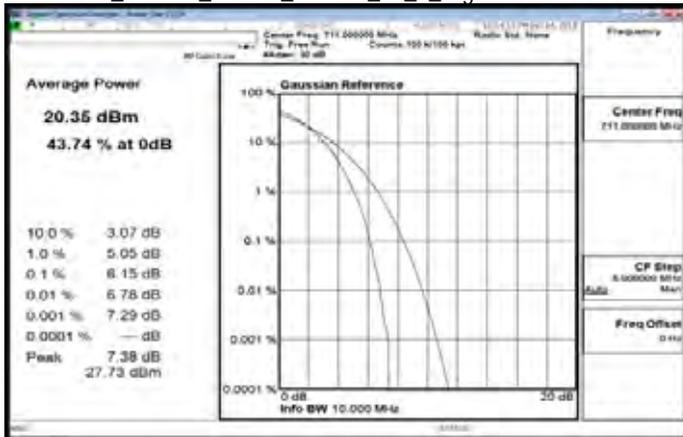
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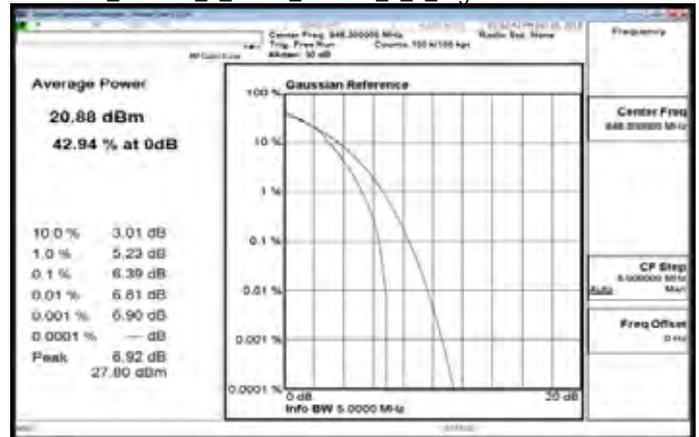
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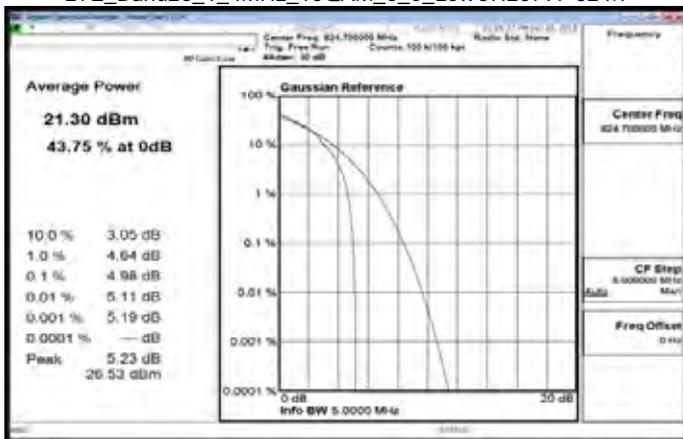
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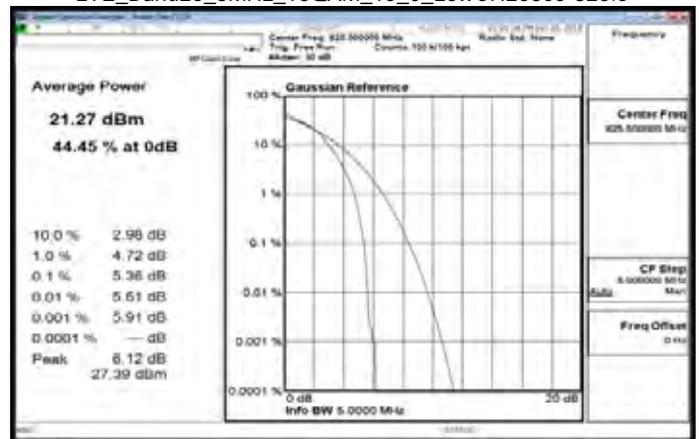
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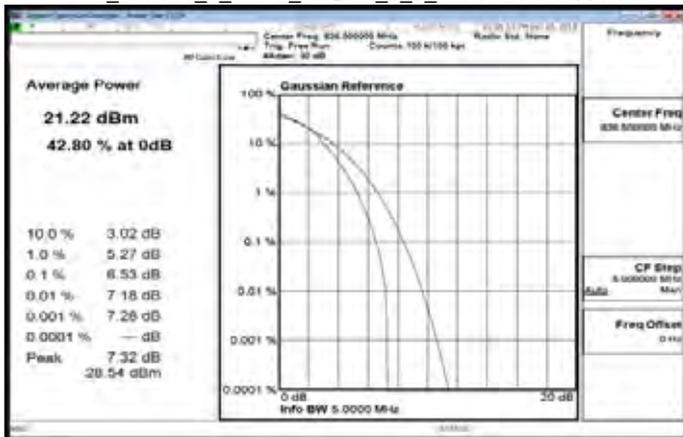
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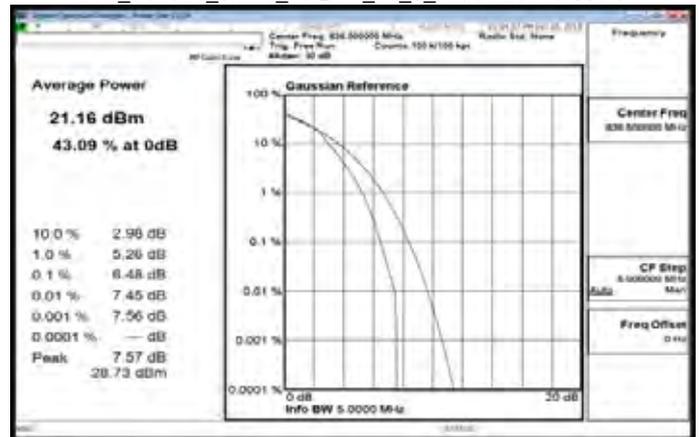
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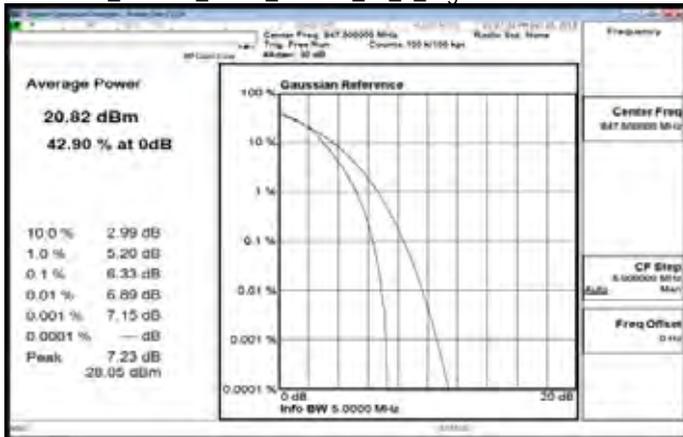
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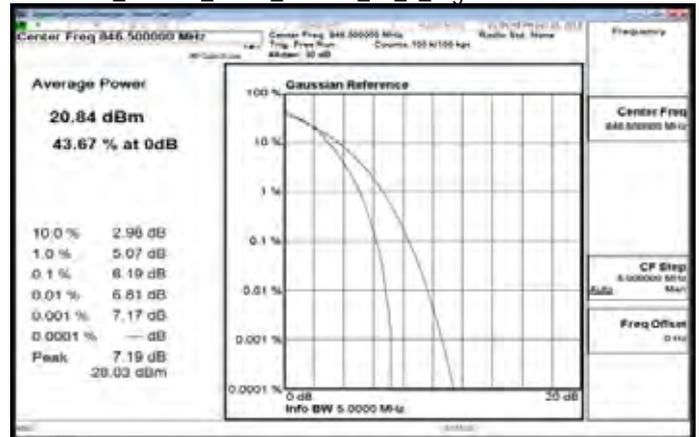
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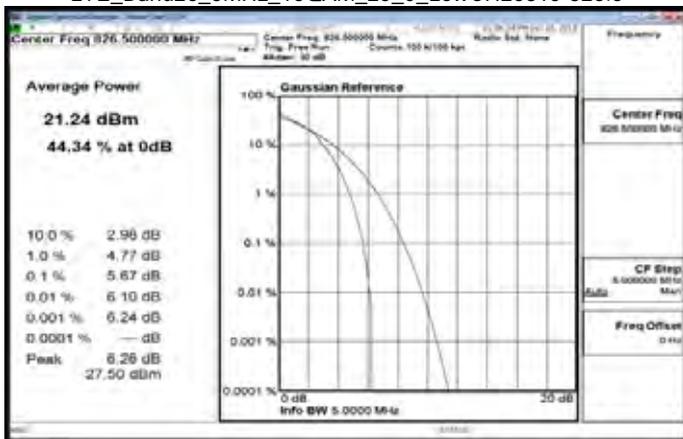
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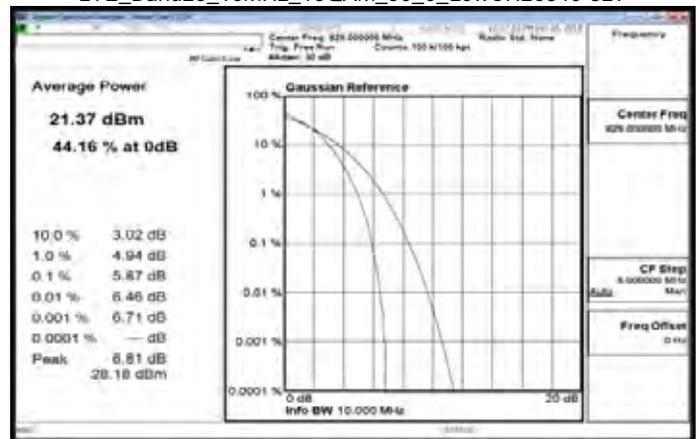
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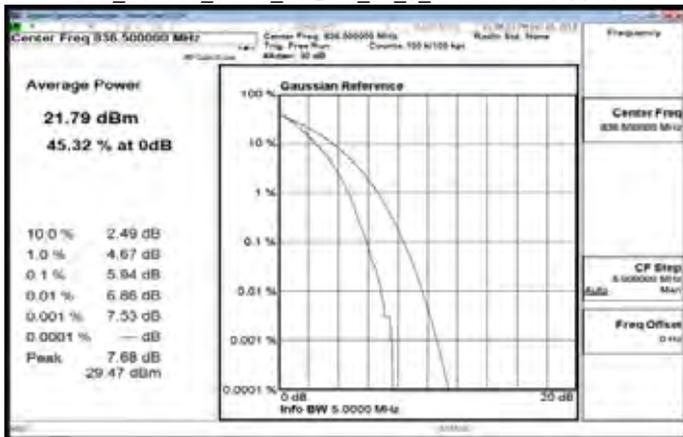
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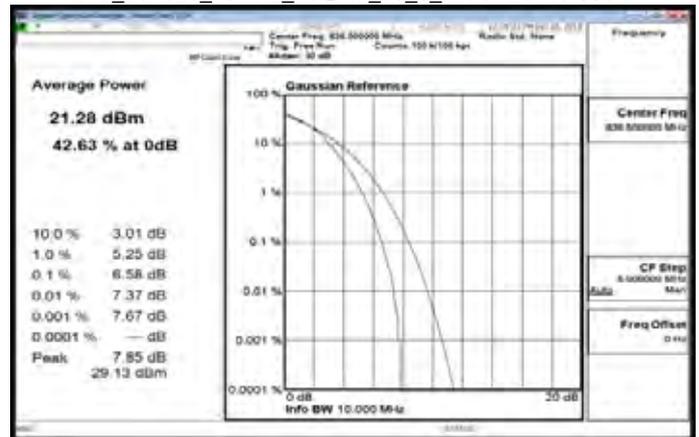
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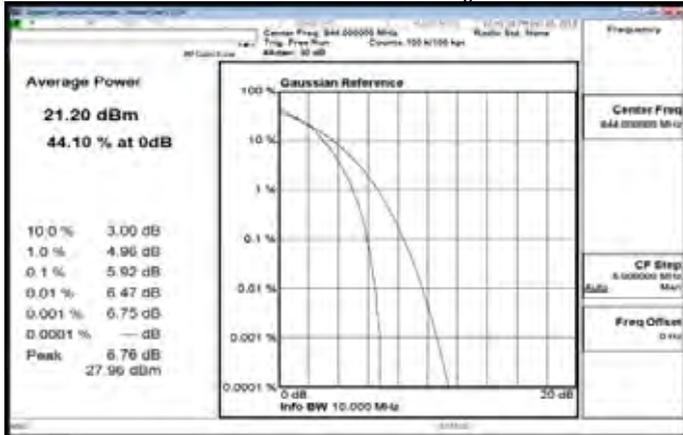
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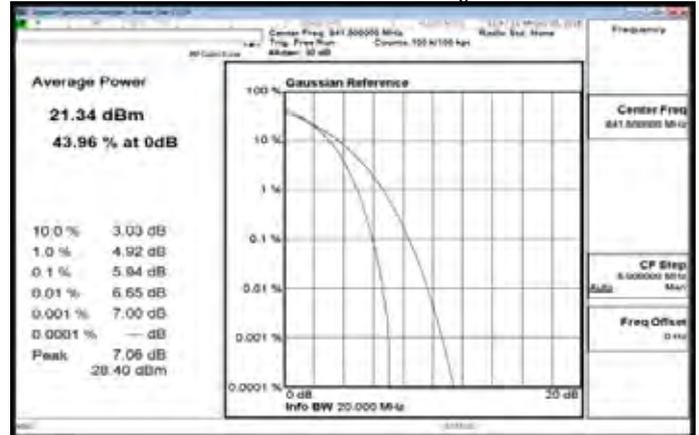
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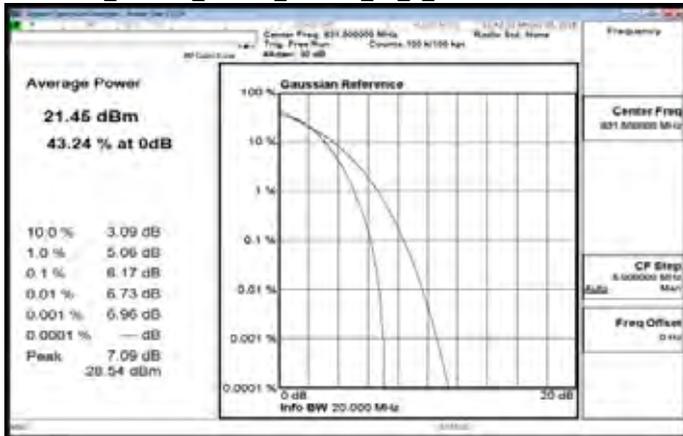
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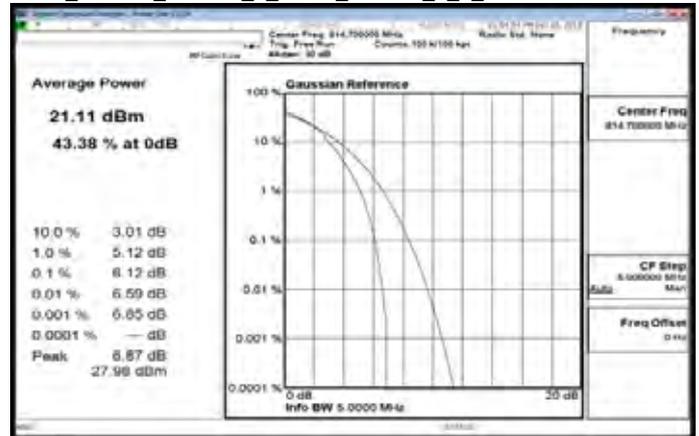
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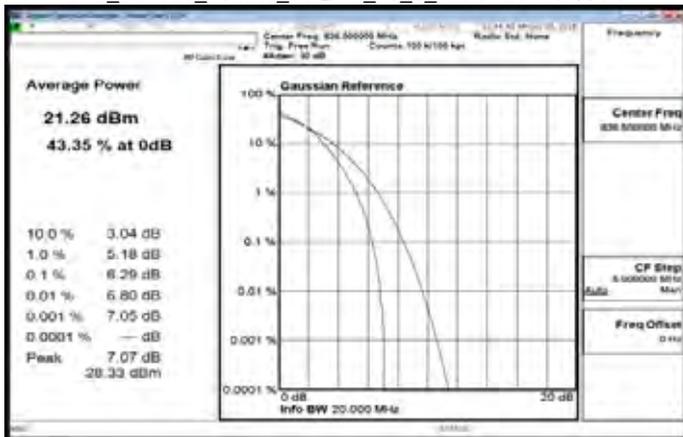
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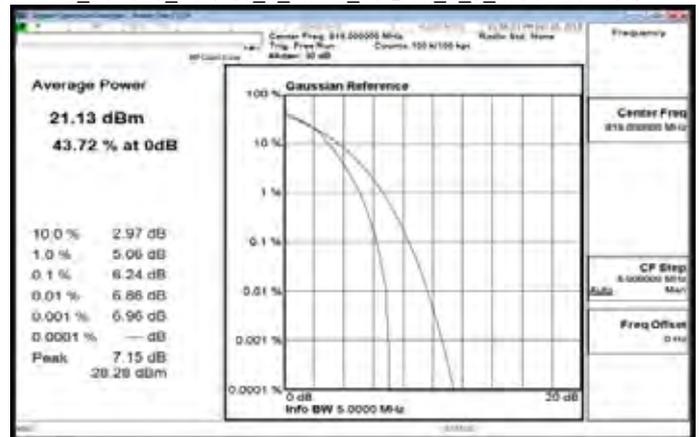
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LTE\_Band26\_Part90s\_1\_4MHz\_16QAM\_6\_0\_MidCH26740-819



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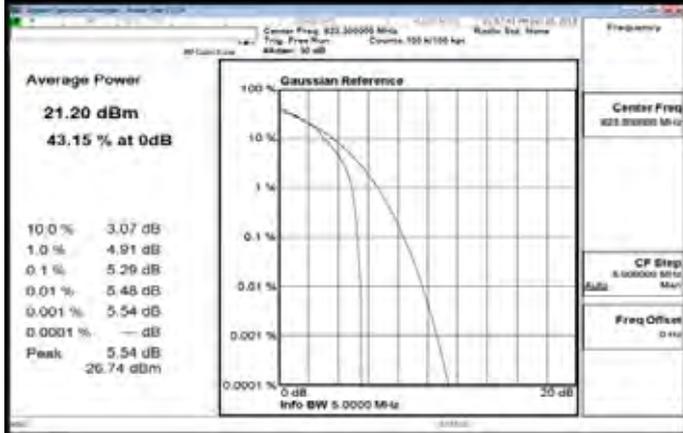
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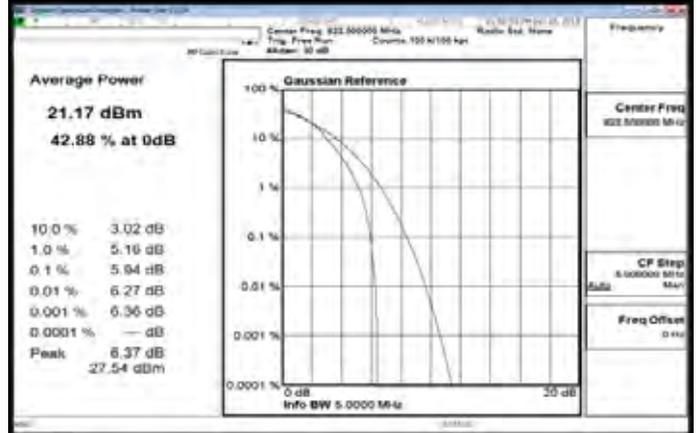
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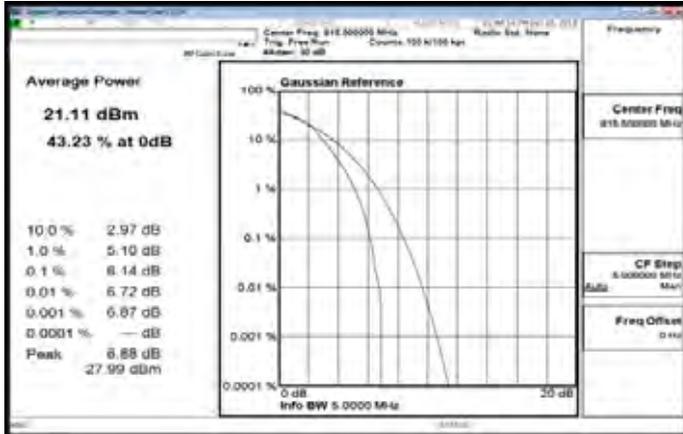
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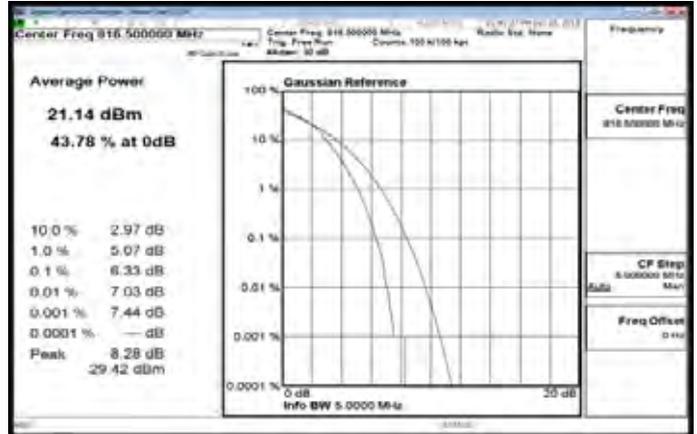
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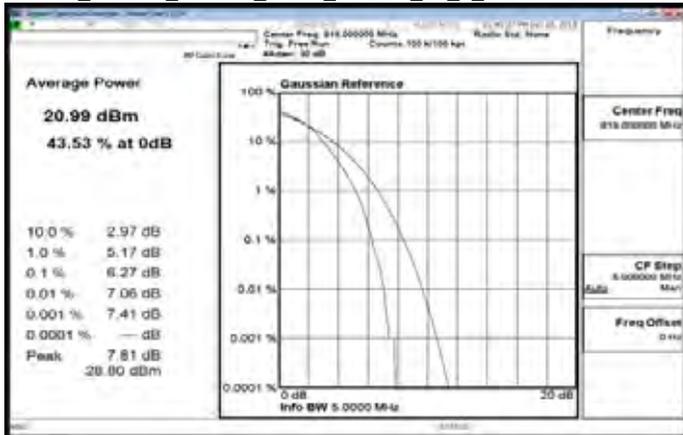
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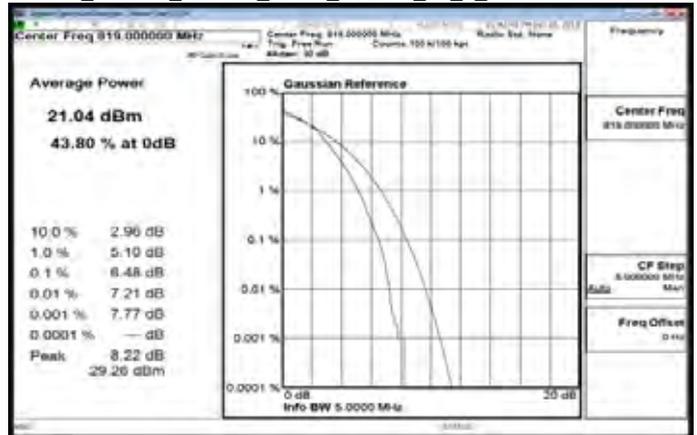
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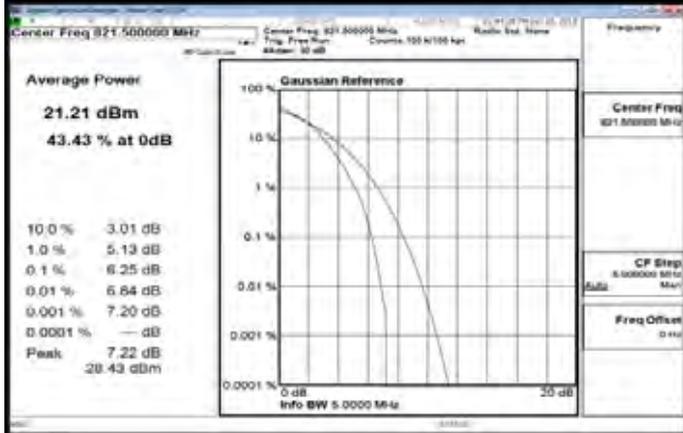
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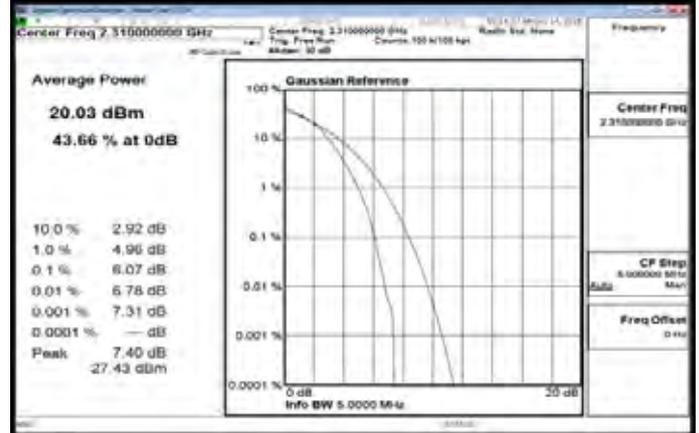
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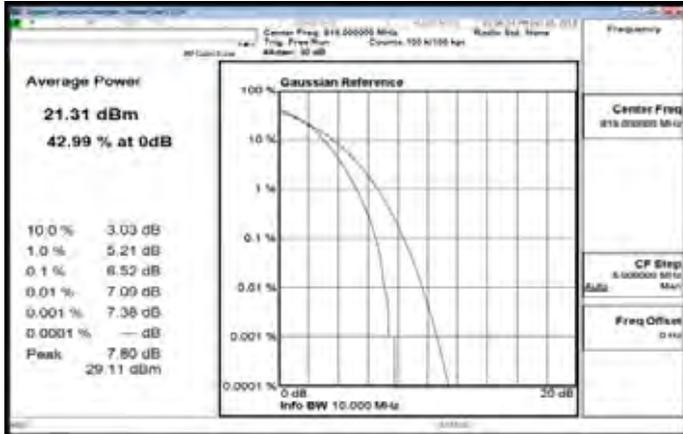
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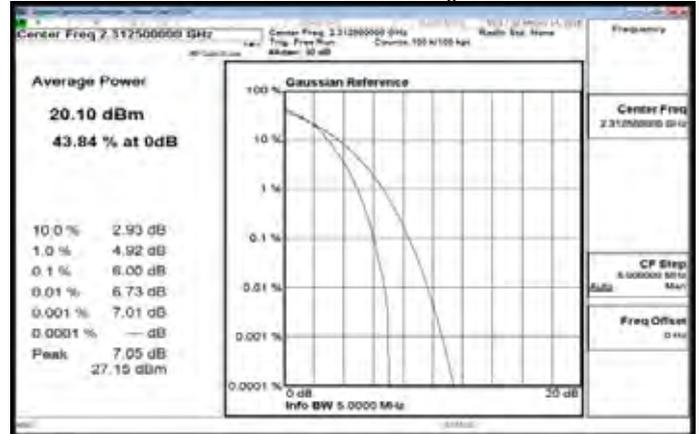
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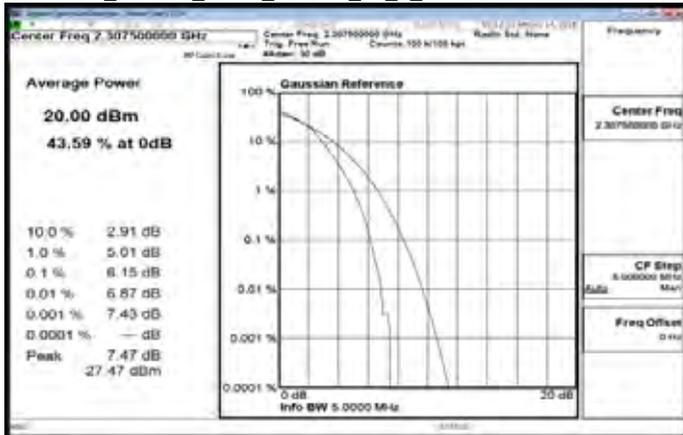
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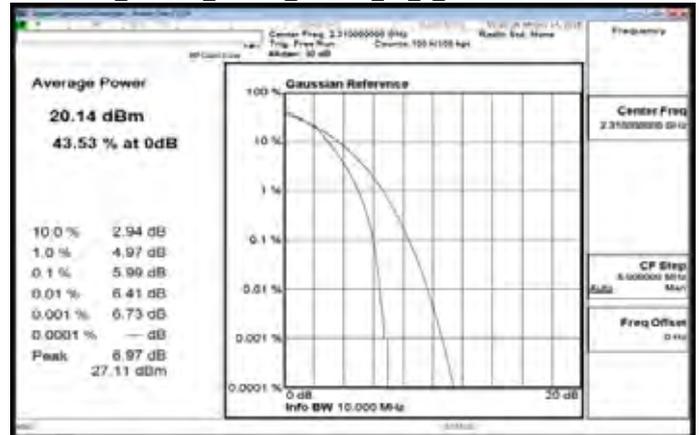
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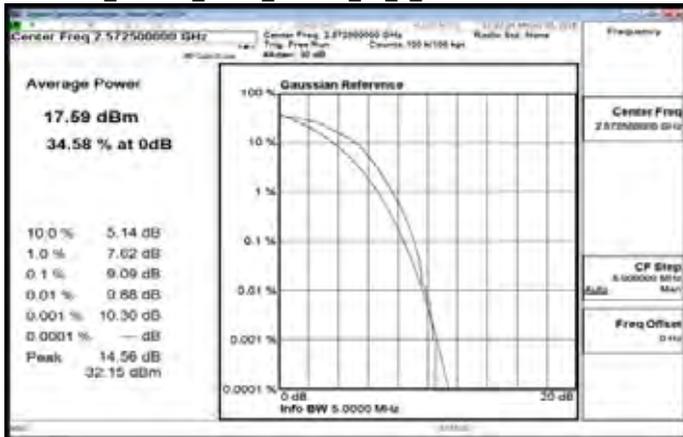
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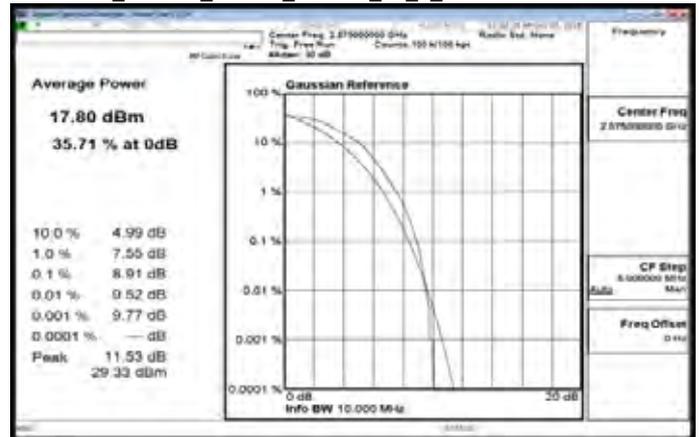
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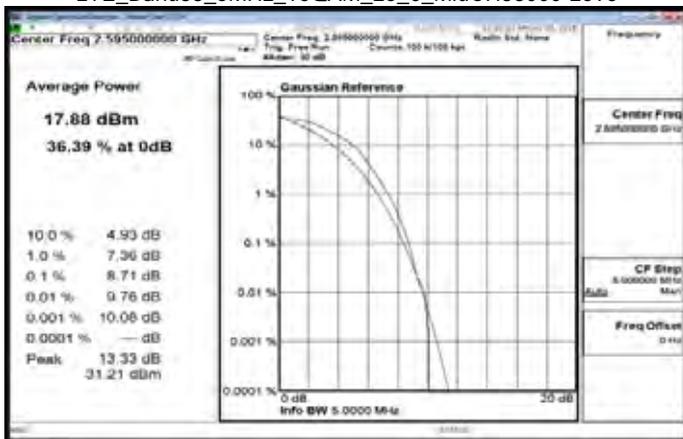
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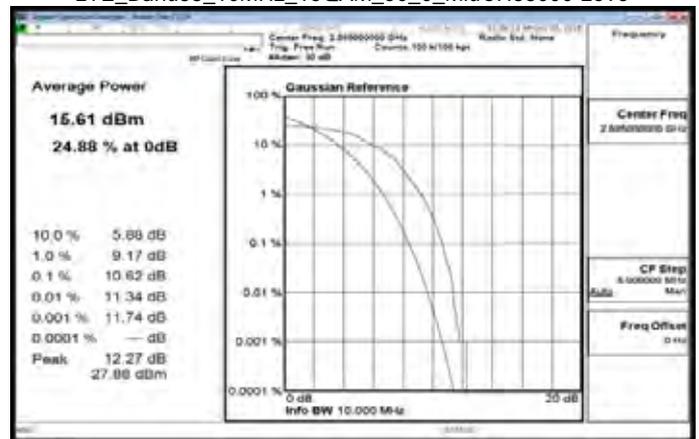
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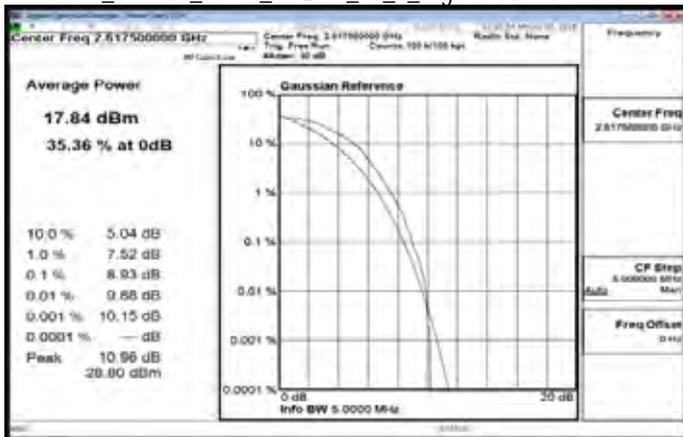
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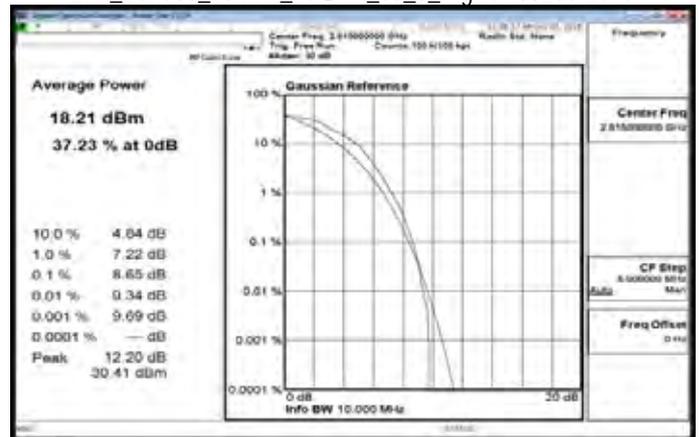
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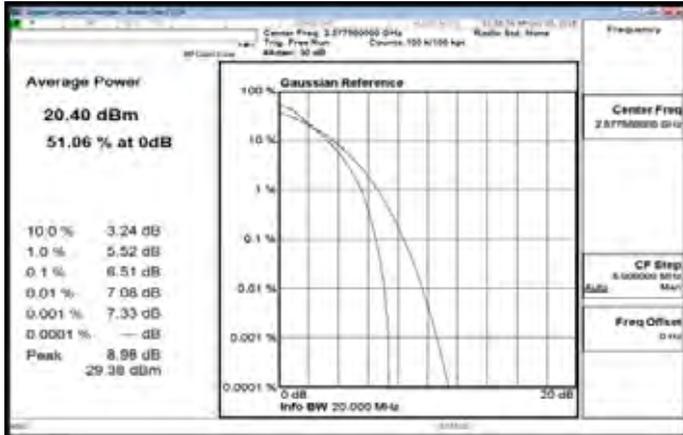


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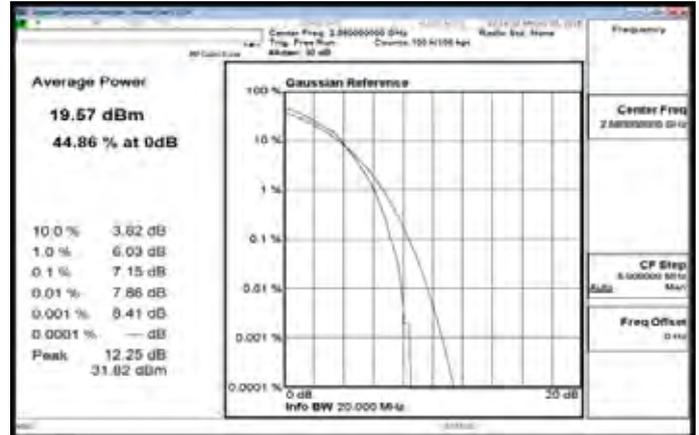
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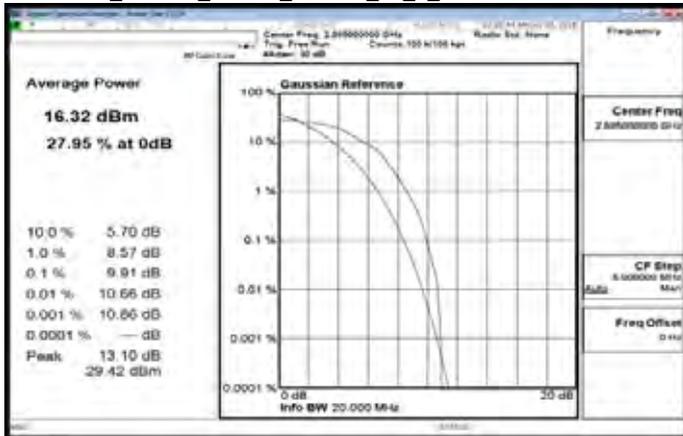
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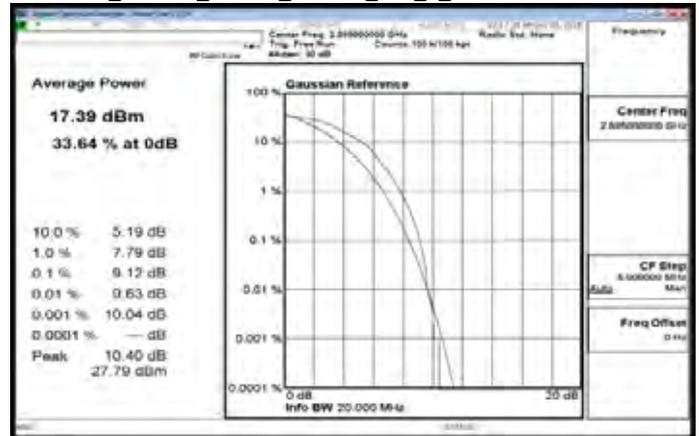
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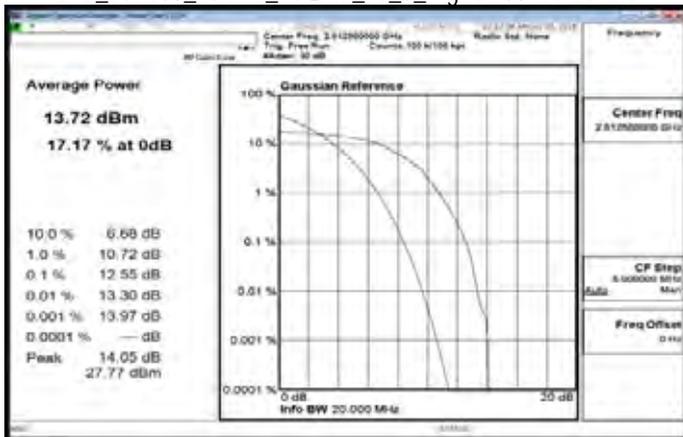
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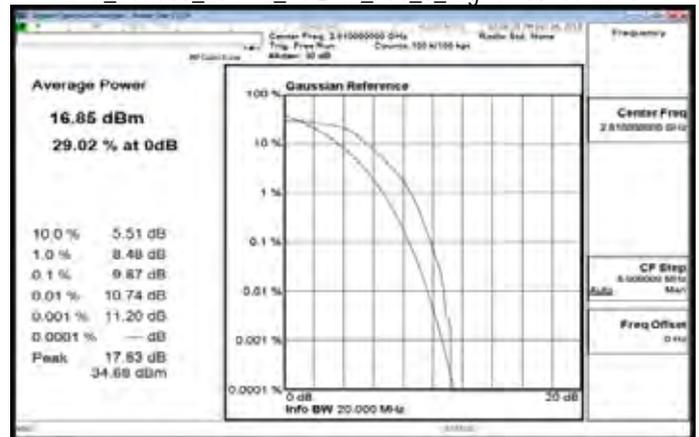
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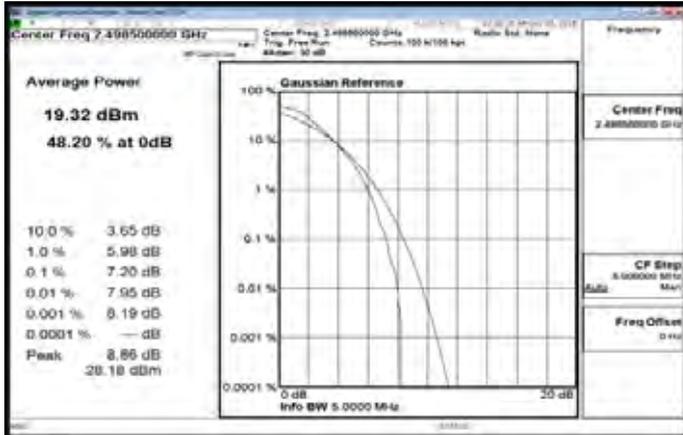
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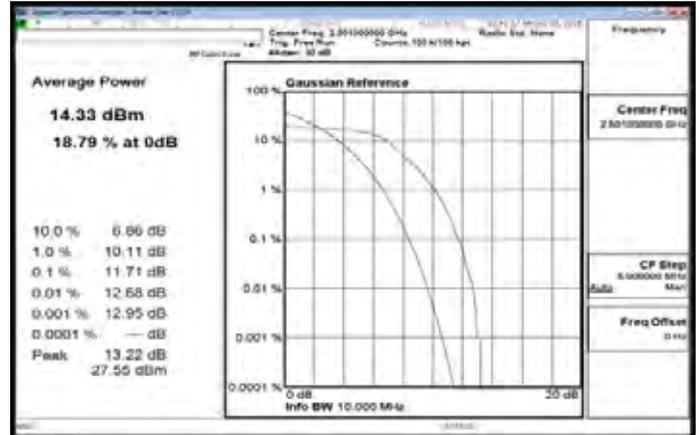
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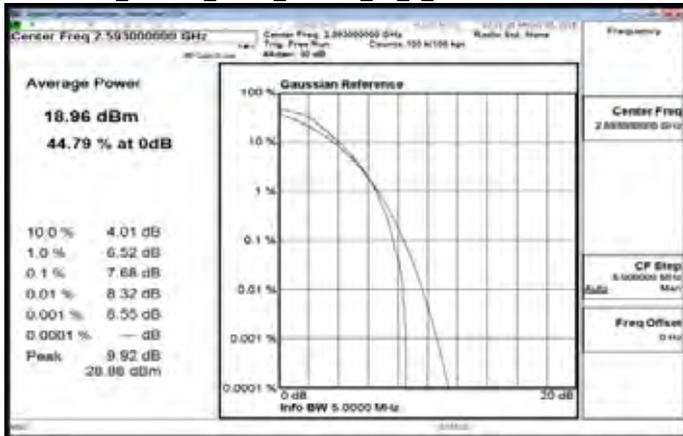
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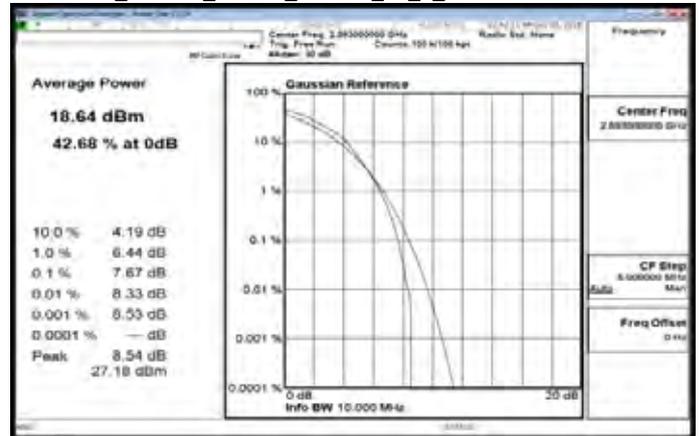
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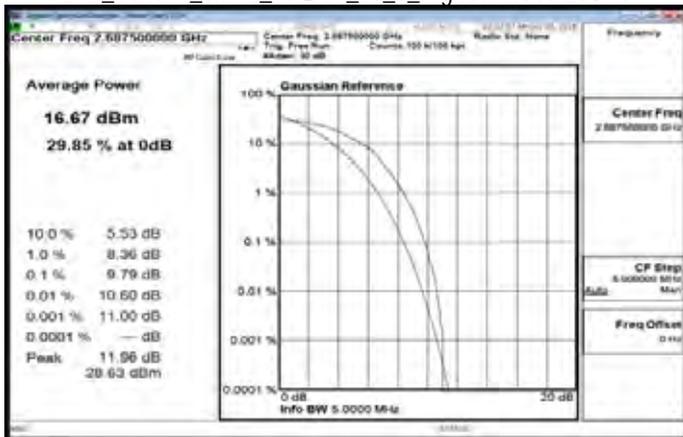
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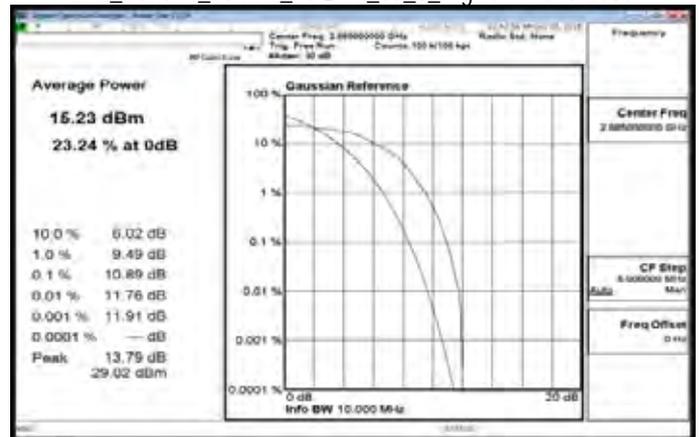
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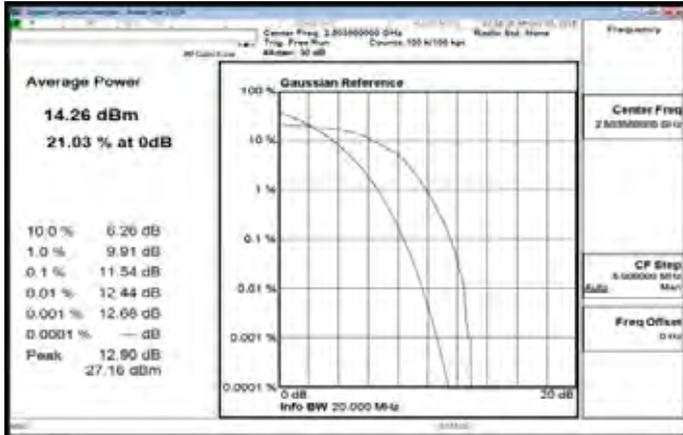
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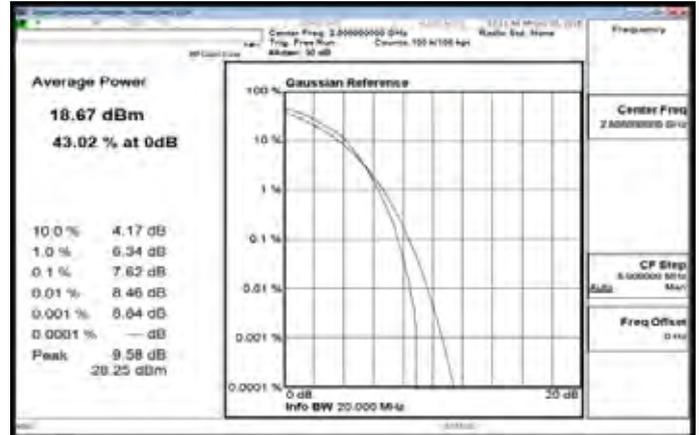
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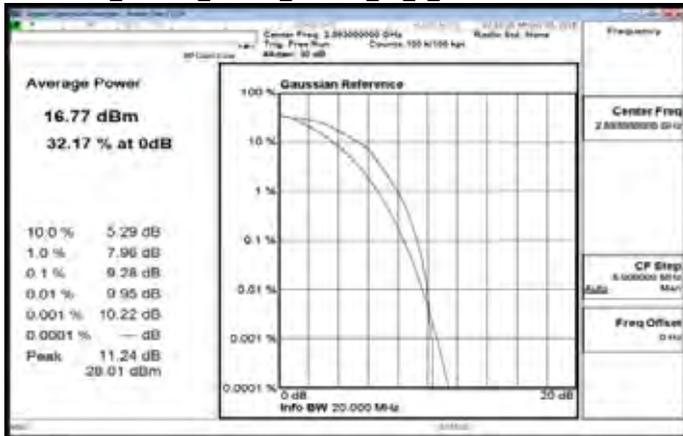
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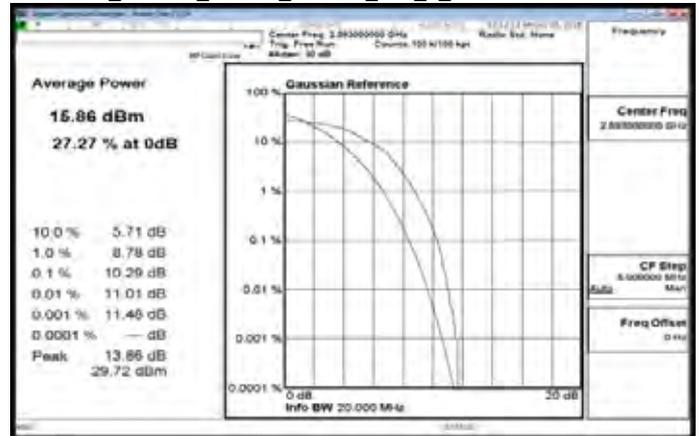
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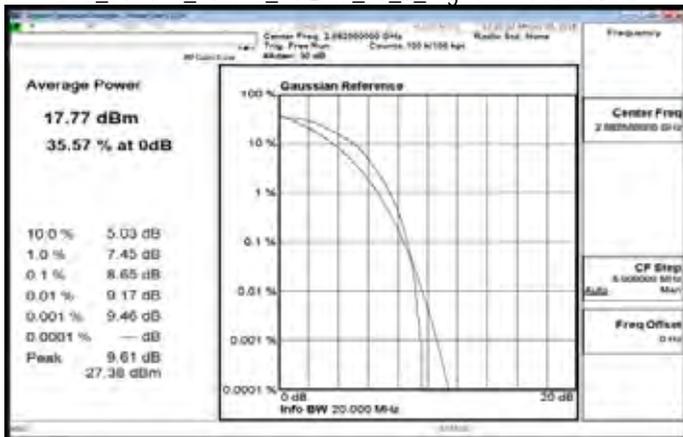
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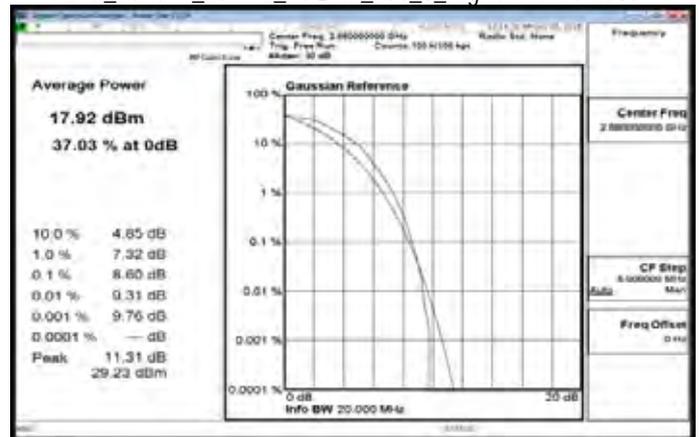
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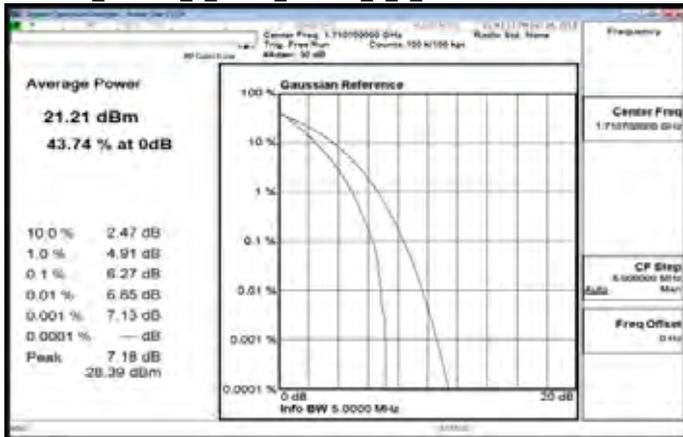
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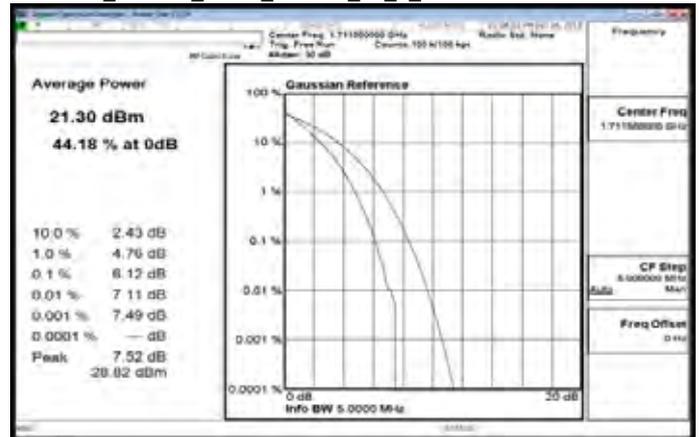
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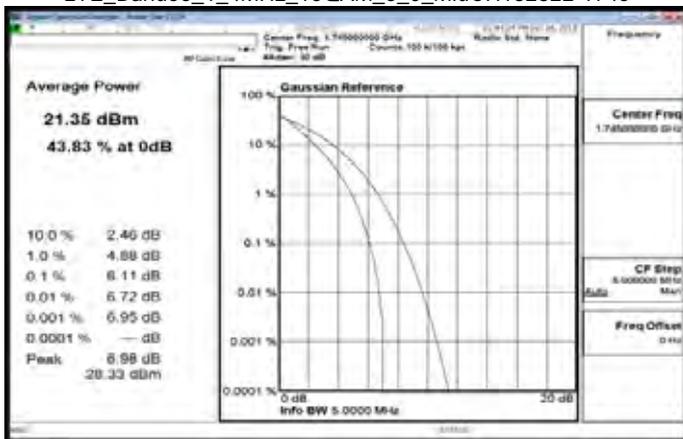
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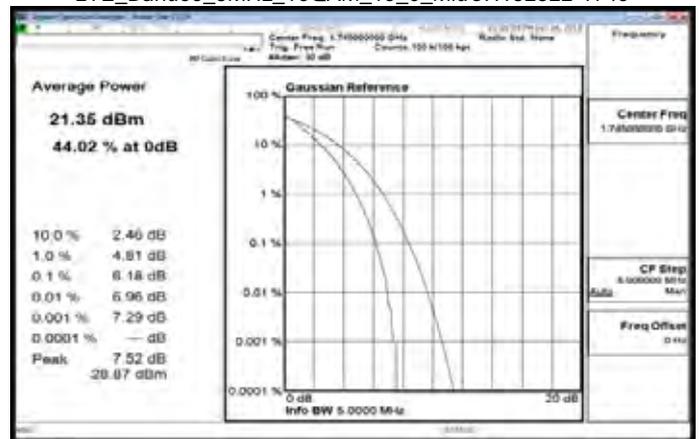
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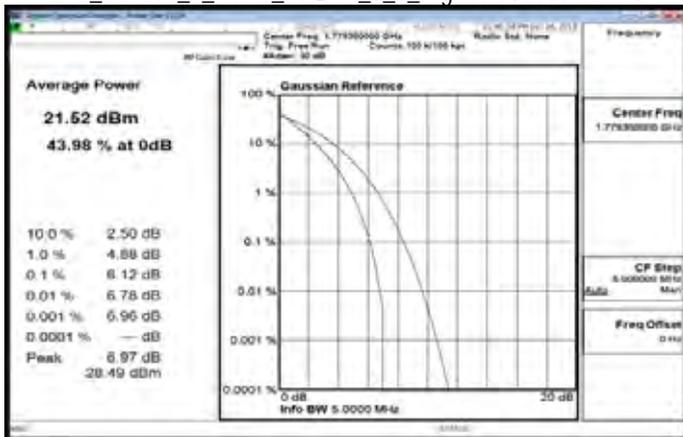
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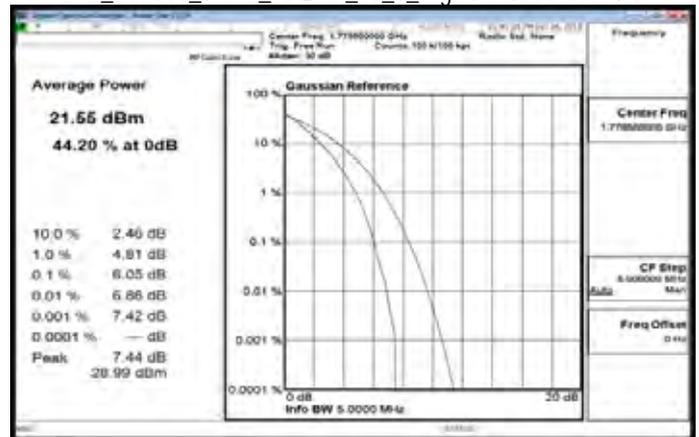
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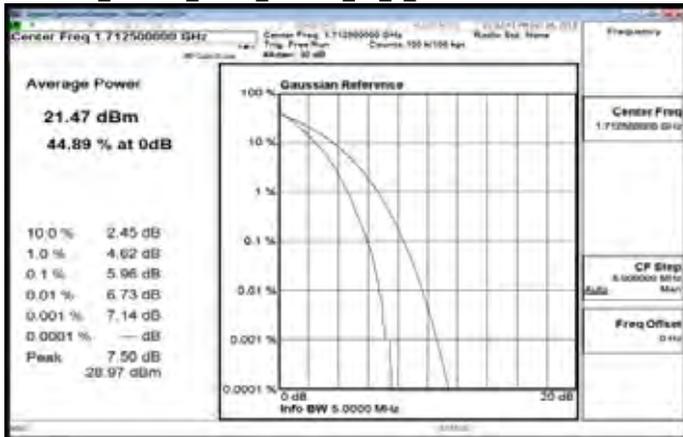
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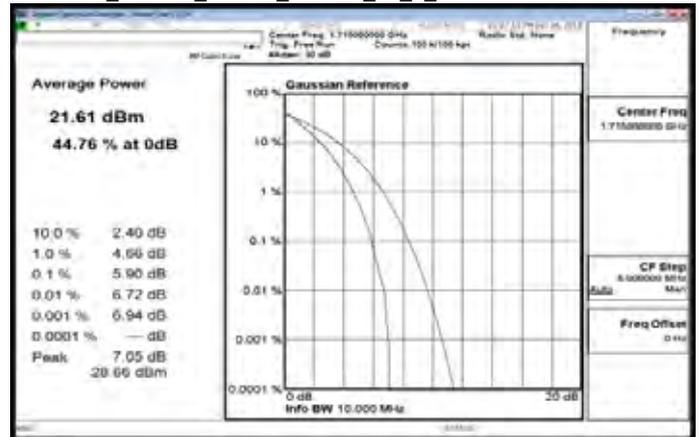
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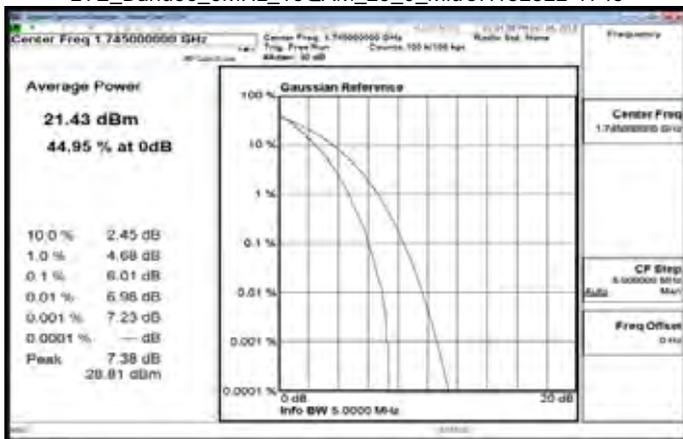
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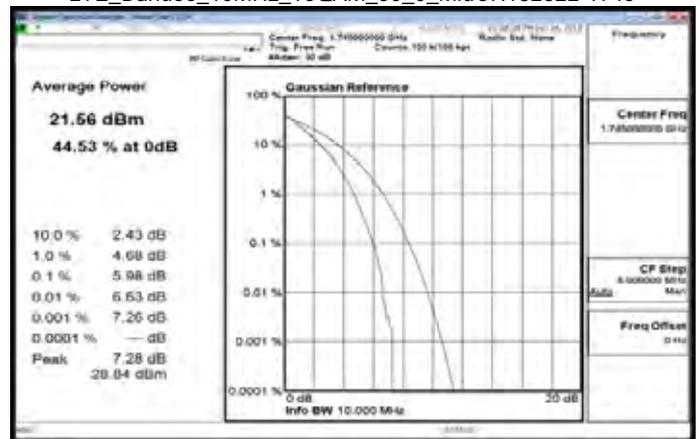
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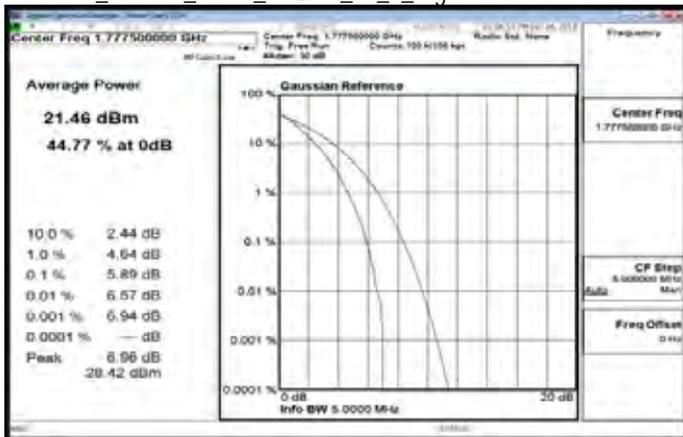
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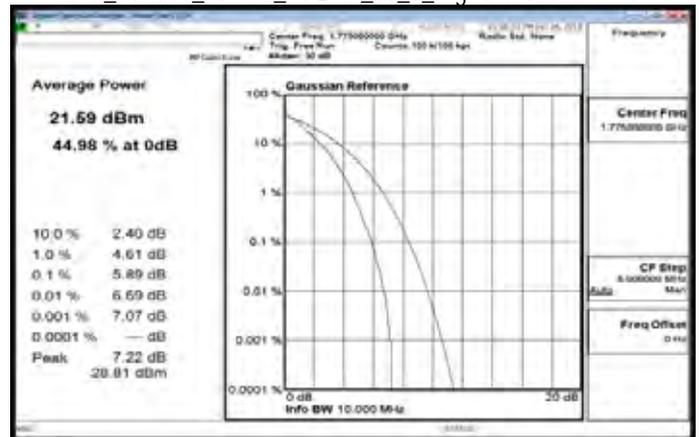
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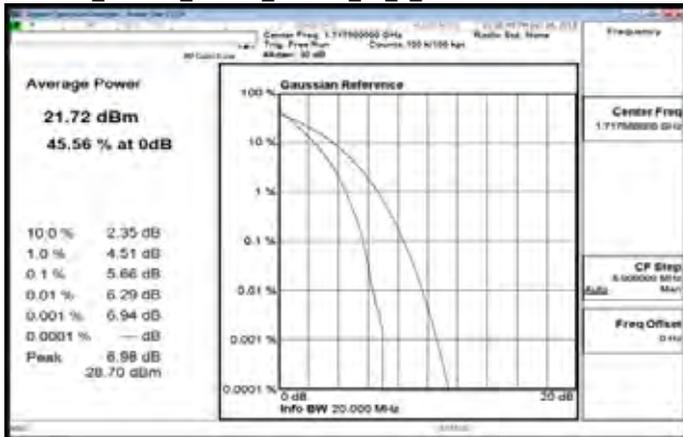
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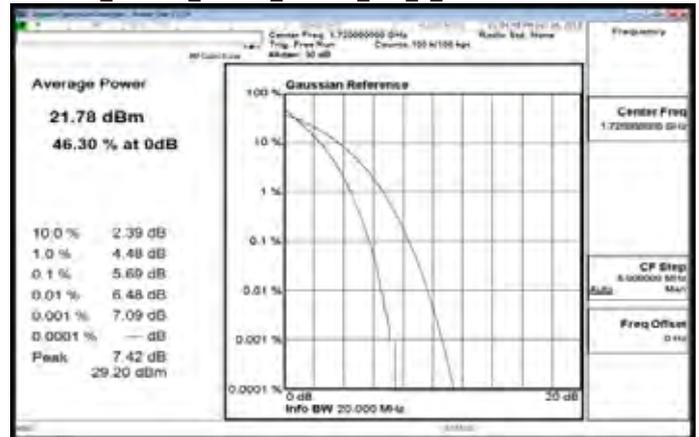
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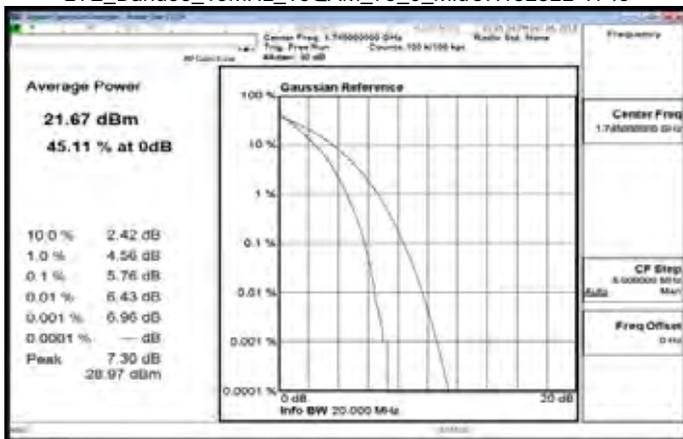
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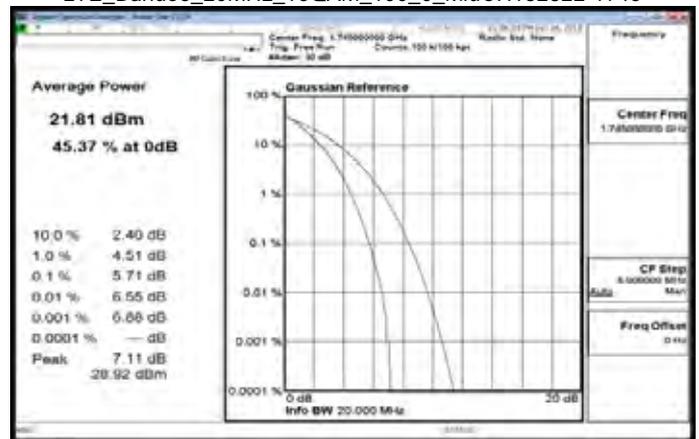
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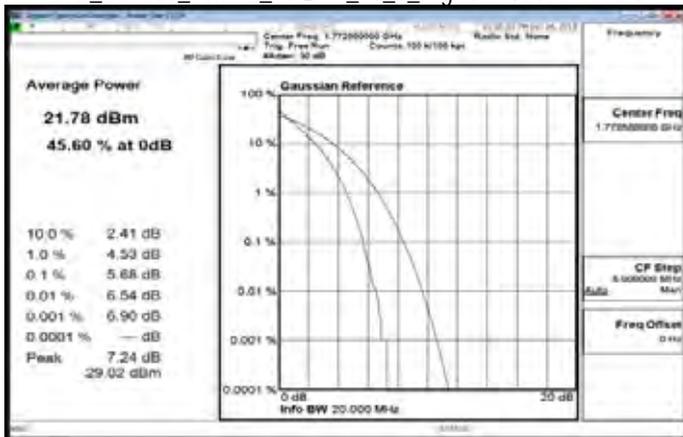
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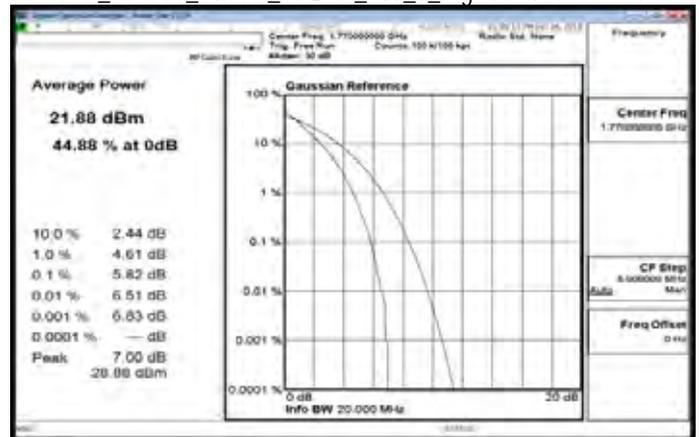
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