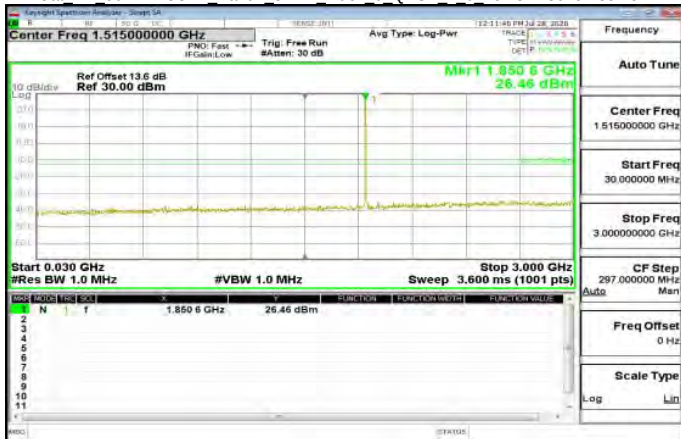
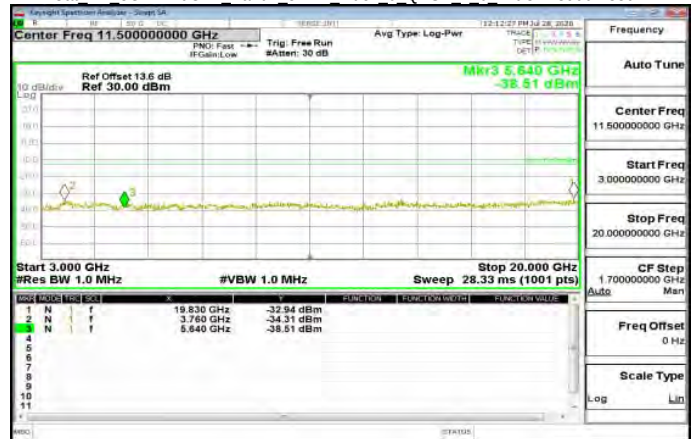


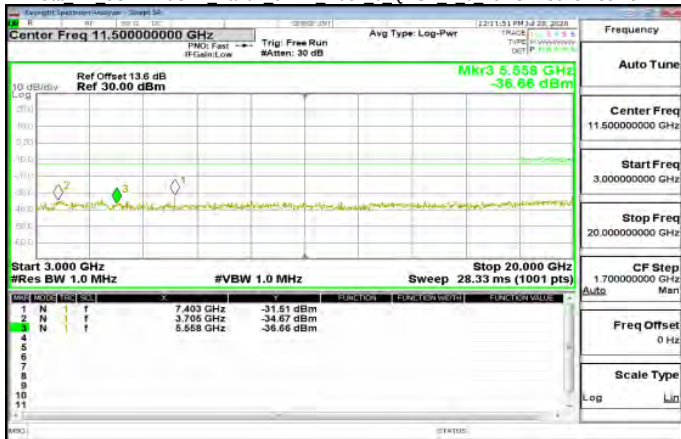
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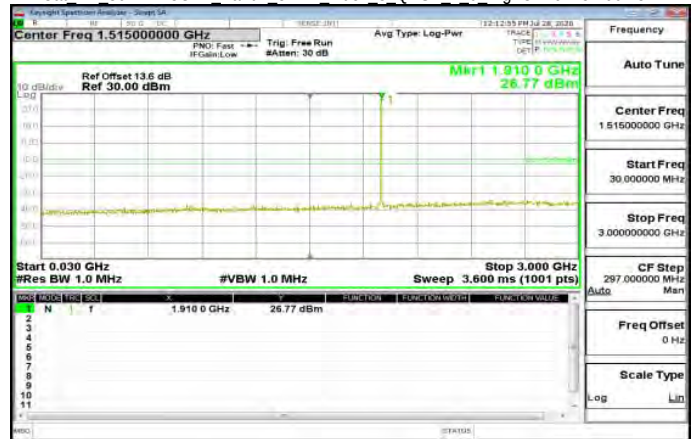
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Cat M1 3GHz~10GHz Band2 5MHz index 0 QPSK 1 0 LowCH18625-1852.5



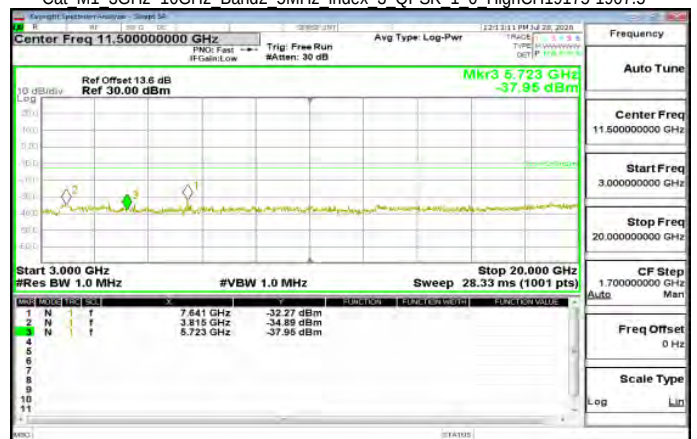
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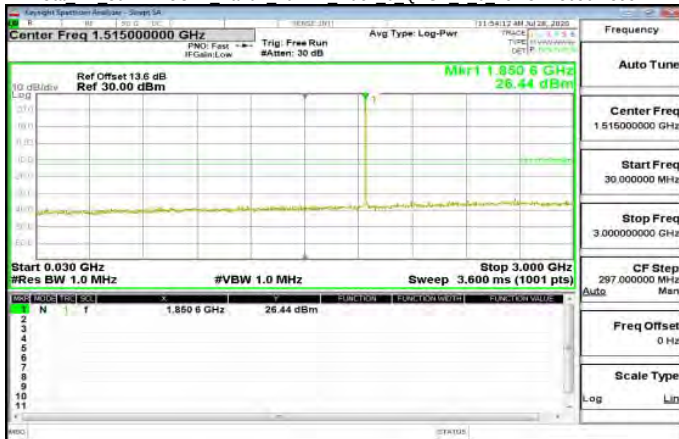


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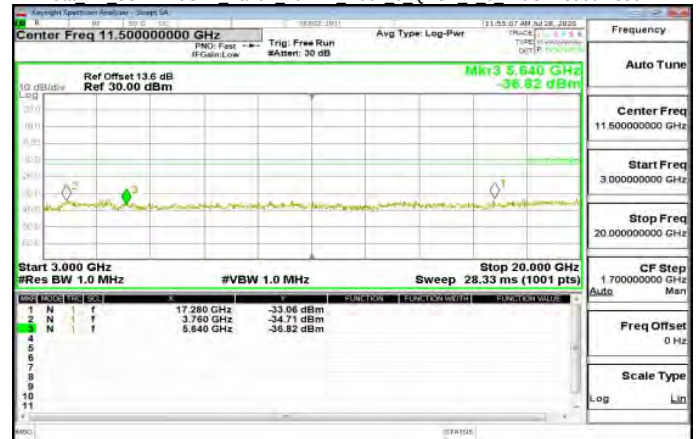
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Cat M1 30MHz~3GHz Band2 10MHz index 0 QPSK 1 0 LowCH18650-1855



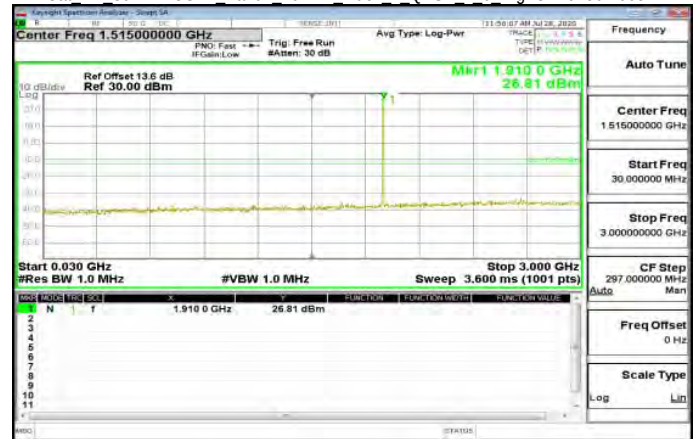
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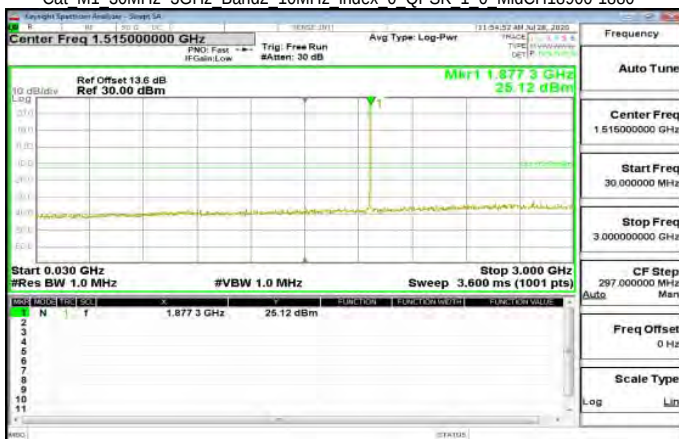
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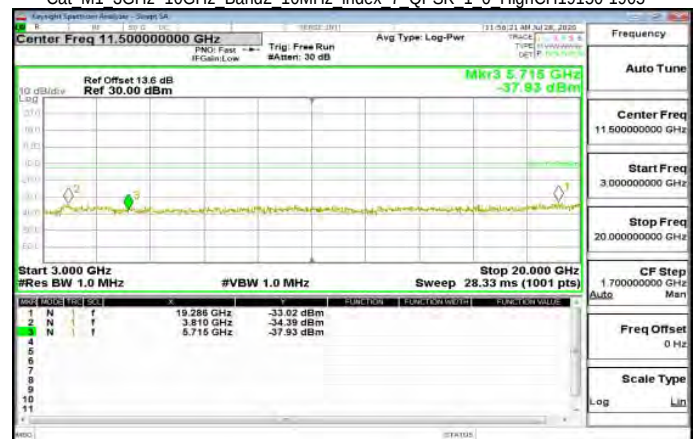
Cat M1 30MHz~3GHz Band2 10MHz index 7 QPSK 1 0 HighCH19150-1905



Cat M1 30MHz~3GHz Band2 10MHz index 0 QPSK 1 0 MidCH18900-1880



Cat M1 3GHz~10GHz Band2 10MHz index 7 QPSK 1 0 HighCH19150-1905



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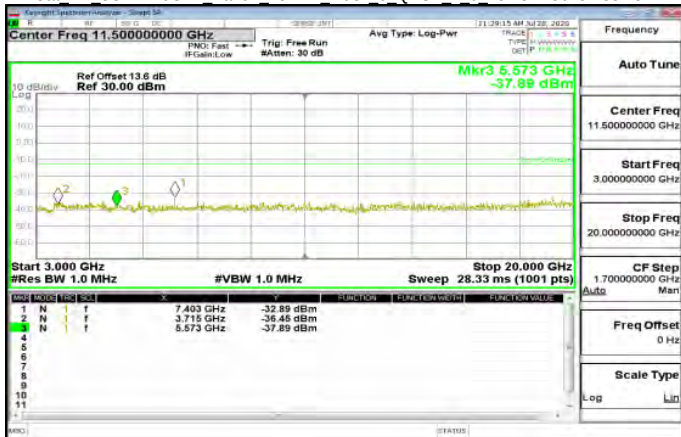
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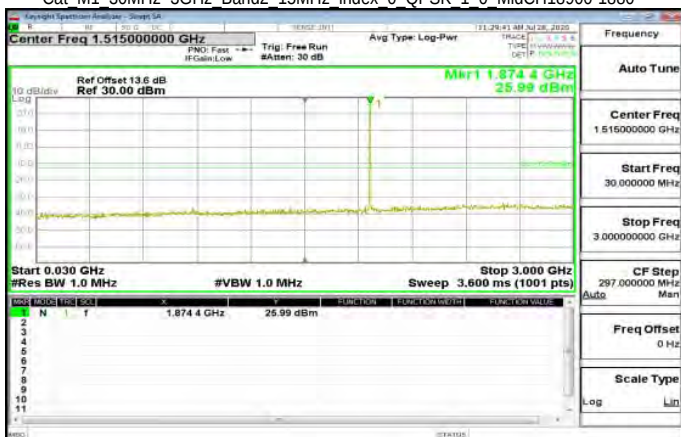
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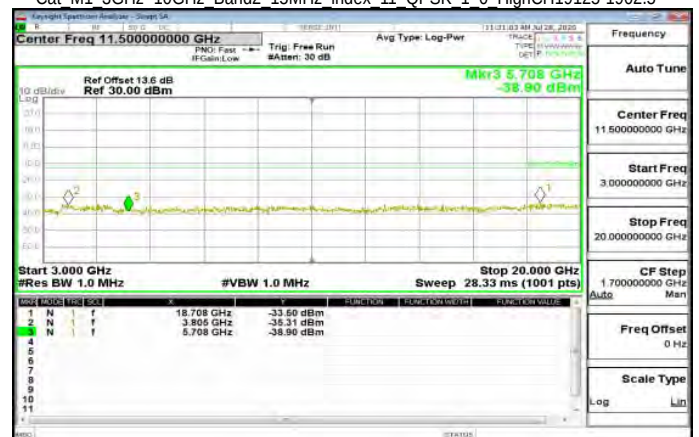
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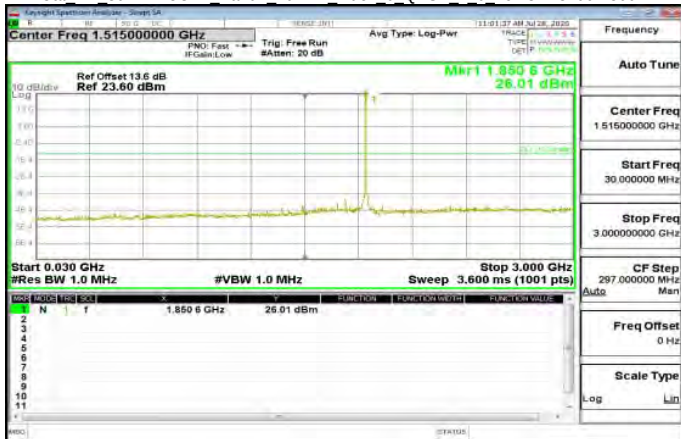


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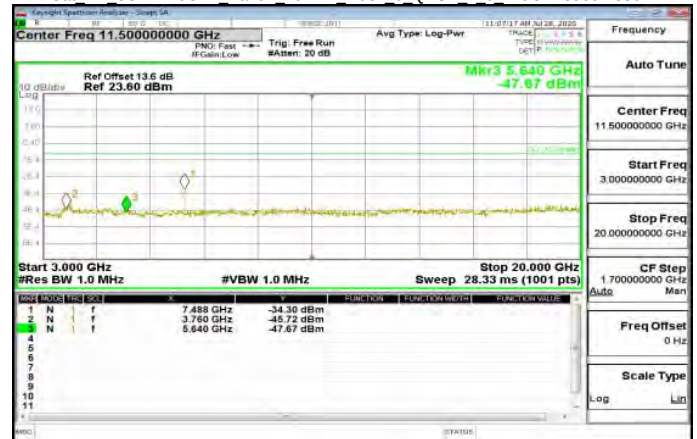
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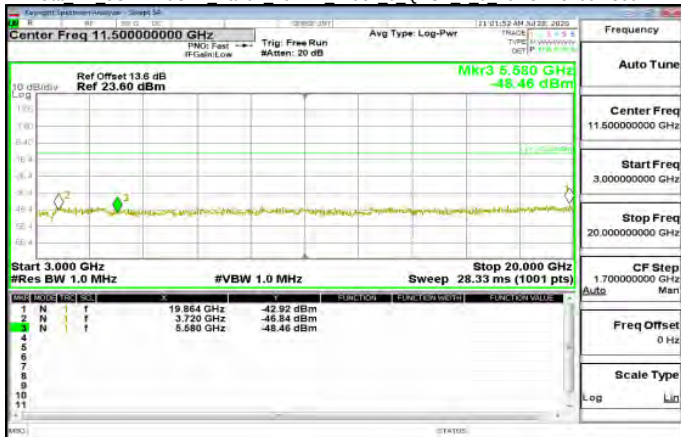
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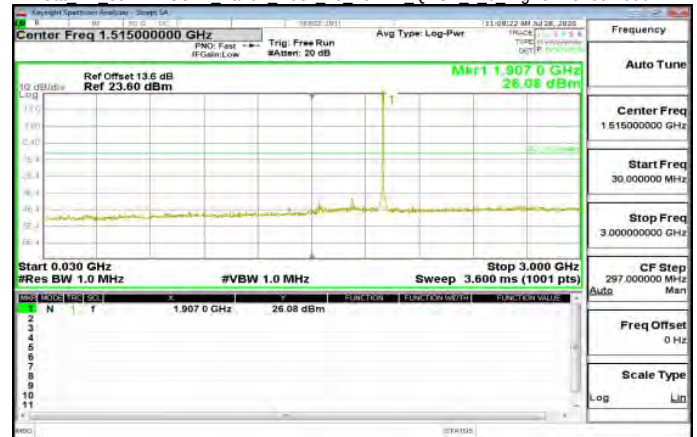
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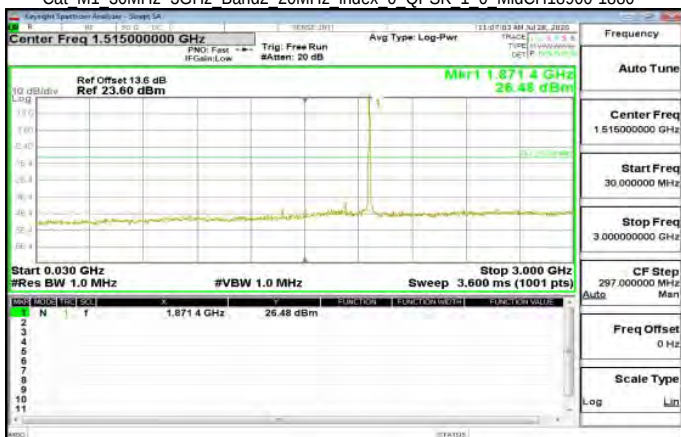
Cat M1 3GHz~10GHz Band2 20MHz index 0 QPSK 1 0 LowCH18700-1860



Cat M1 30MHz~3GHz Band2 index 15 20MHz QPSK 1 0 HighCH19100-1900



Cat M1 30MHz~3GHz Band2 20MHz index 0 QPSK 1 0 MidCH18900-1880



Cat M1 3GHz~10GHz Band2 index 15 20MHz QPSK 1 0 HighCH19100-1900

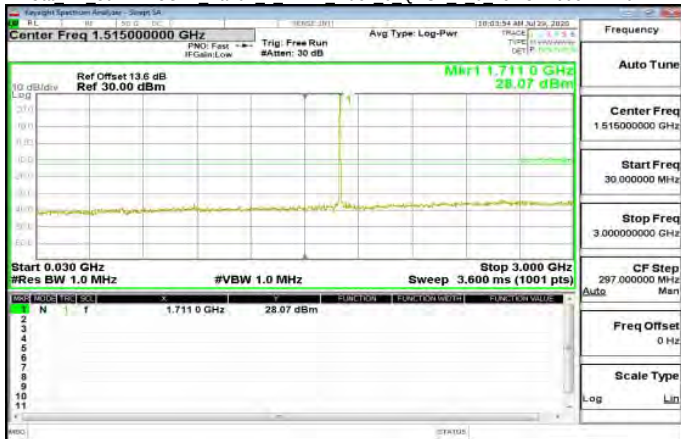


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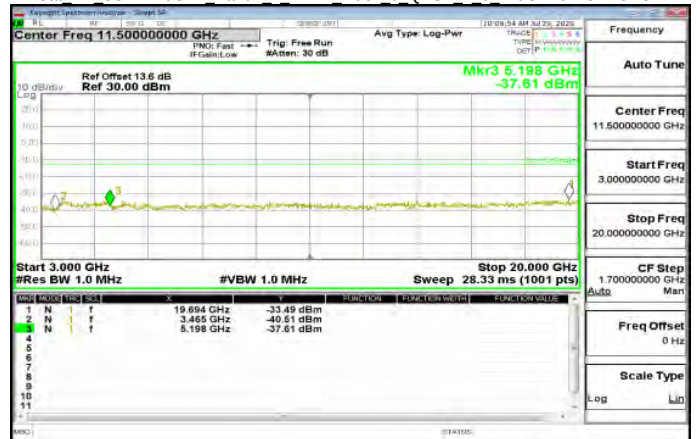
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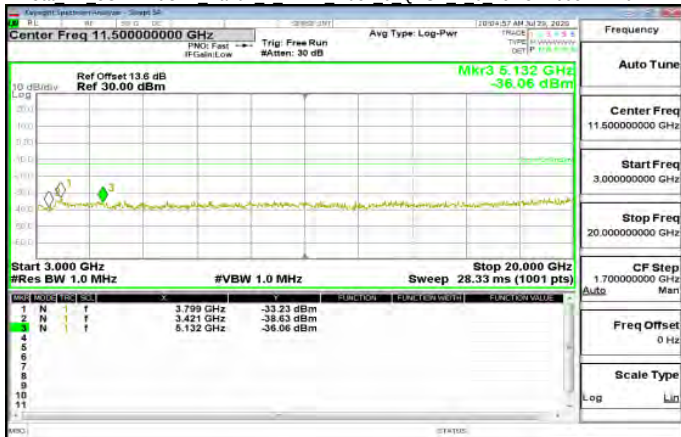
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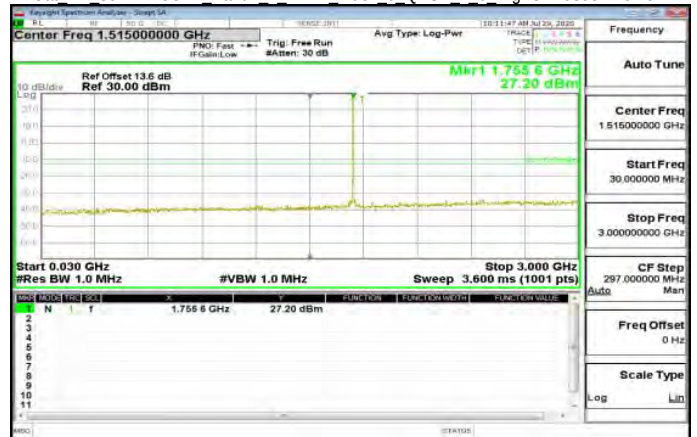
Cat M1 3GHz-10GHz Band4 1 4MHz index 0 QPSK 1 0 MidCH20175-1732.5



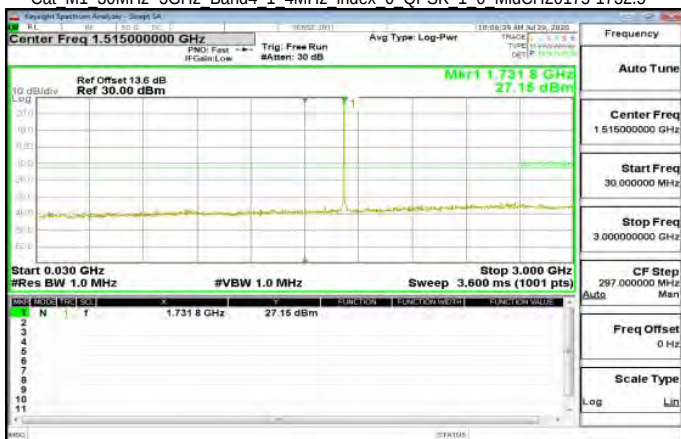
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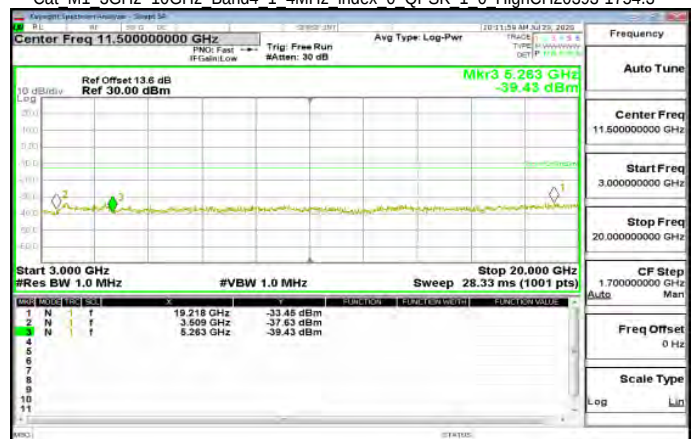
Cat M1 30MHz-3GHz Band4 1 4MHz index 0 QPSK 1 0 HighCH20393-1754.3



Cat M1 30MHz-3GHz Band4 1 4MHz index 0 QPSK 1 0 MidCH20175-1732.5



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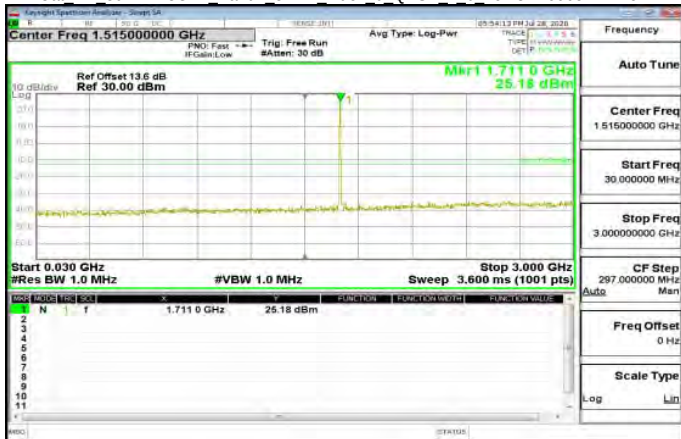


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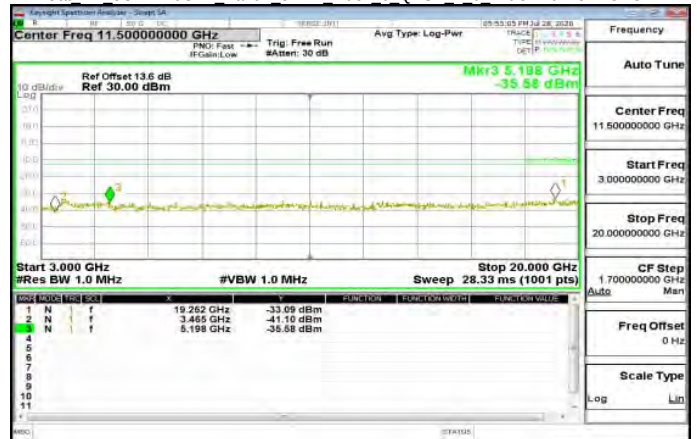
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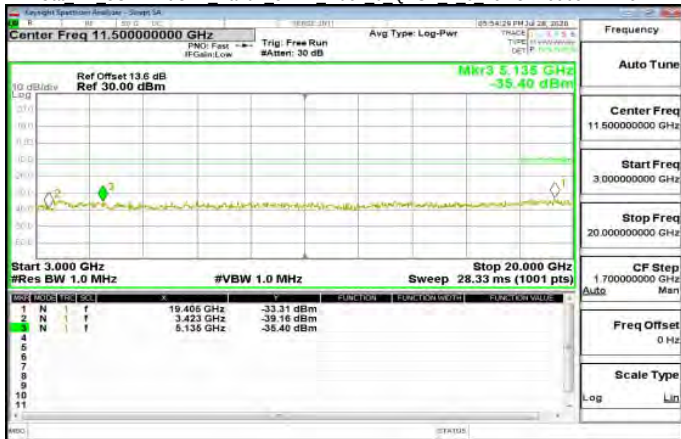
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Cat M1 3GHz~10GHz Band4 3MHz index 0 QPSK 1 0 MidCH20175-1732.5



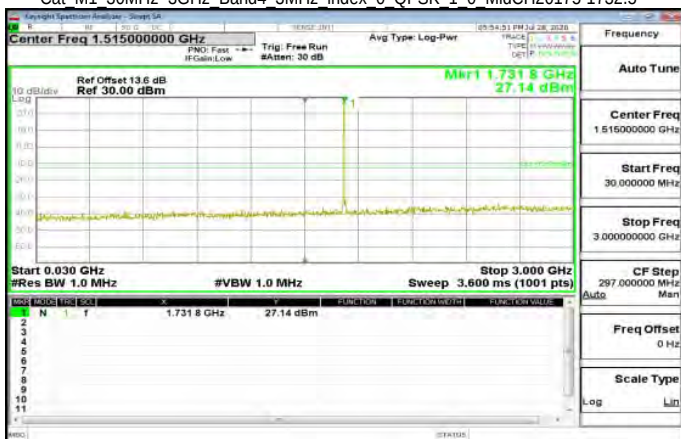
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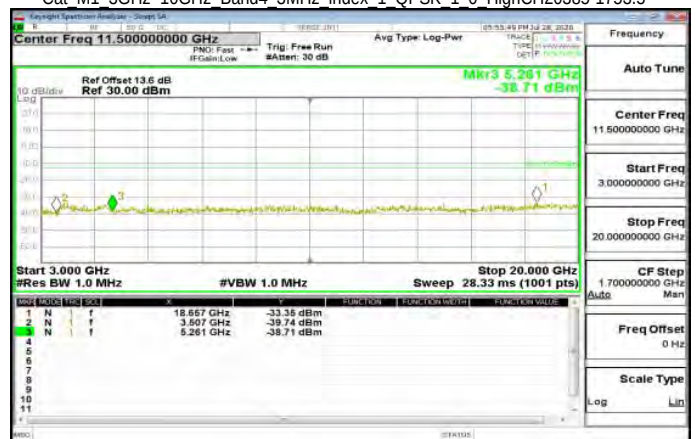
Cat M1 30MHz~3GHz Band4 3MHz index 1 QPSK 1 0 HighCH20385-1753.5



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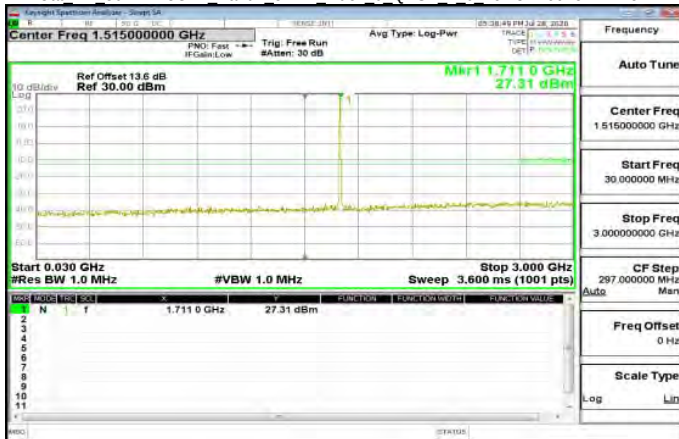


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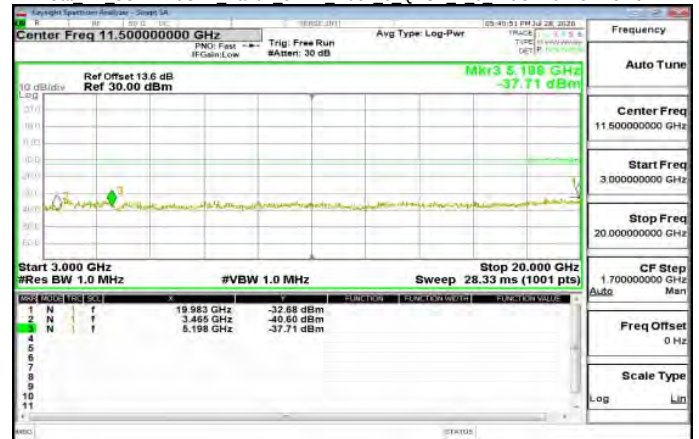
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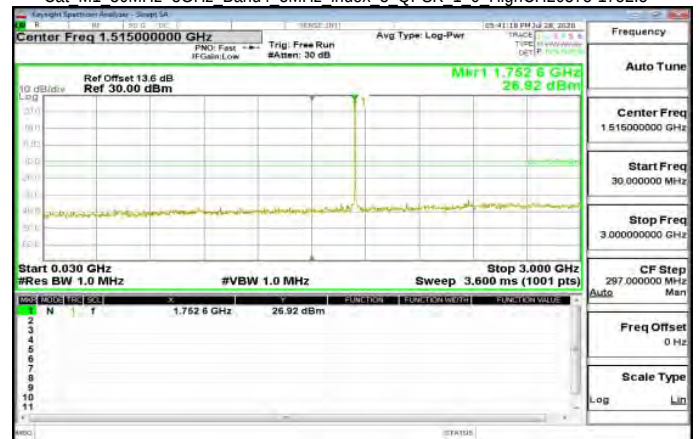
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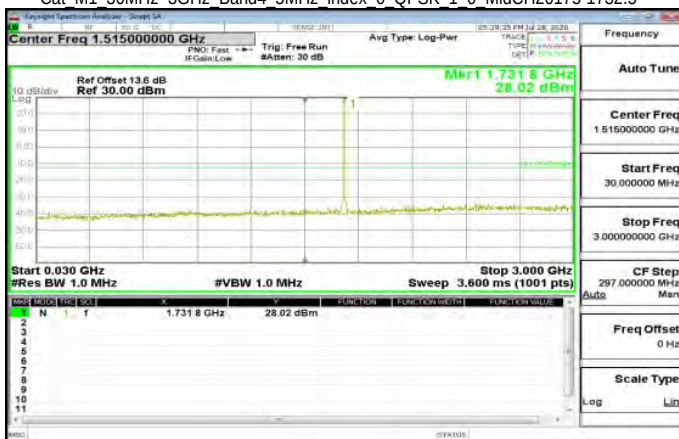
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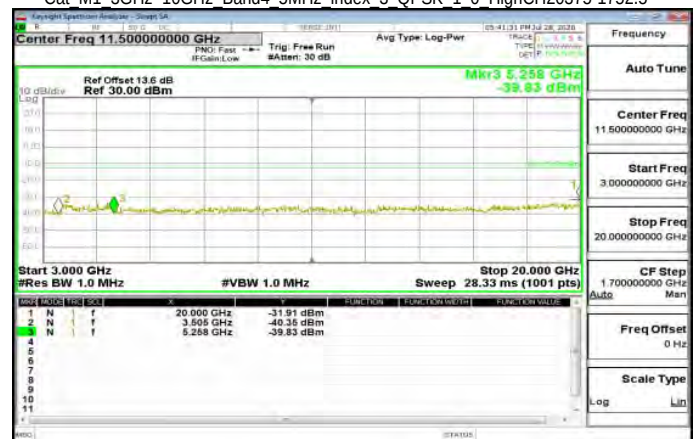
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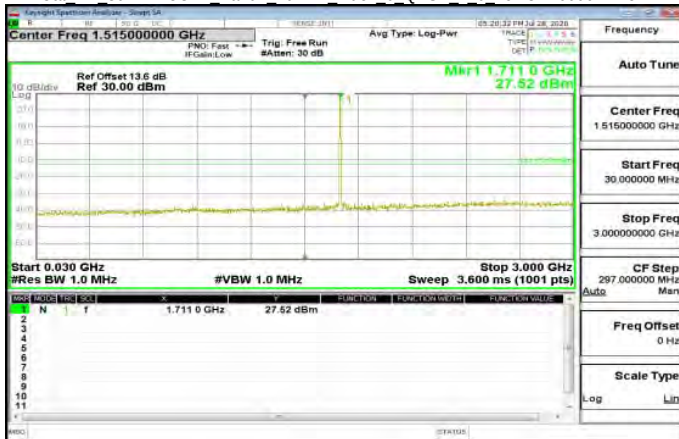


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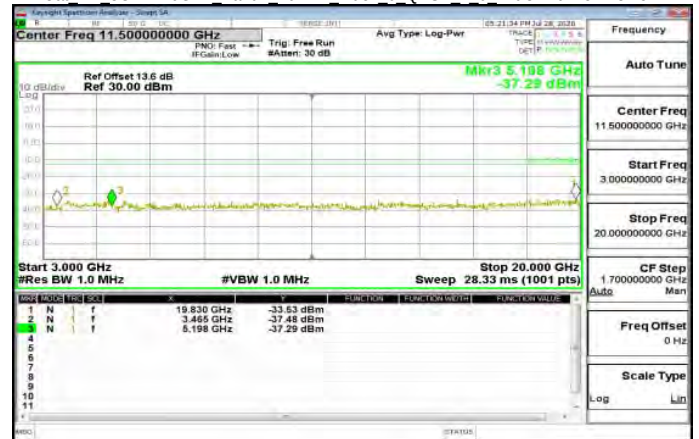
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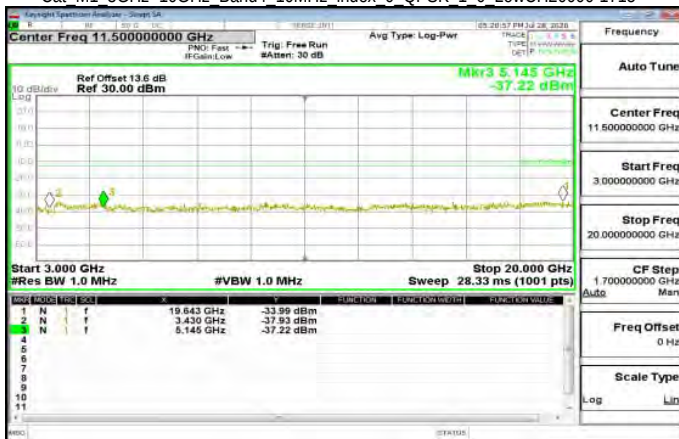
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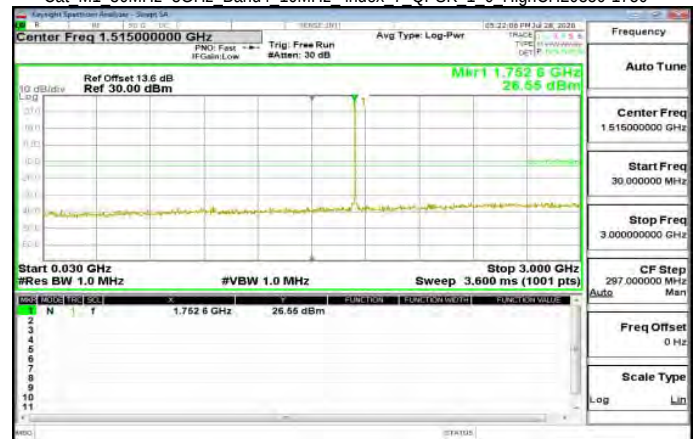
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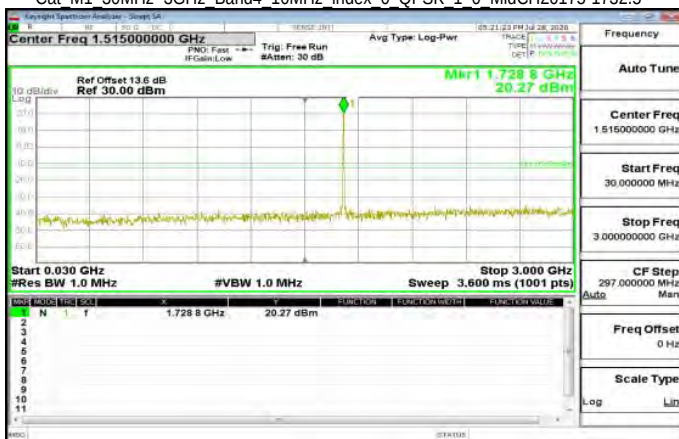
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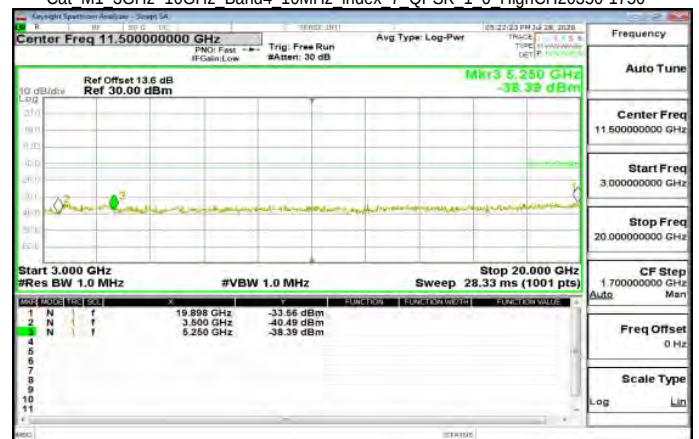
Cat M1 30MHz~3GHz Band4 10MHz index 7 QPSK 1 0 HighCH20350-1750



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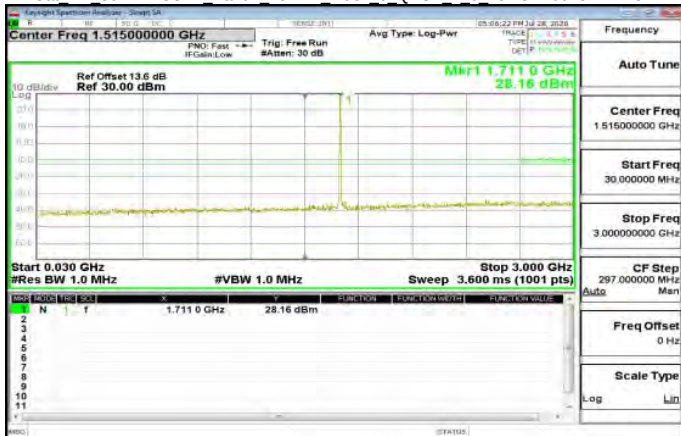


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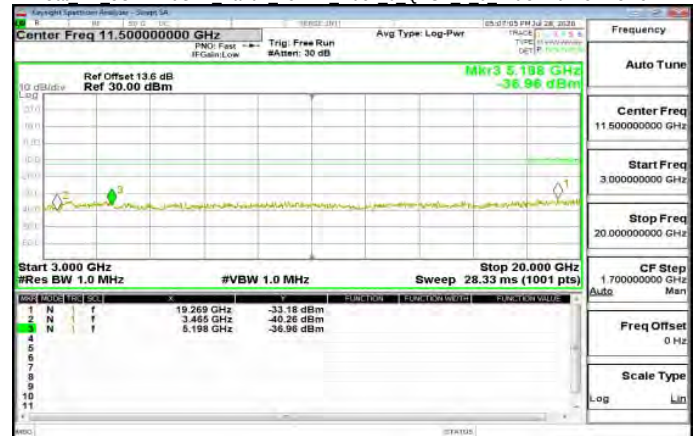
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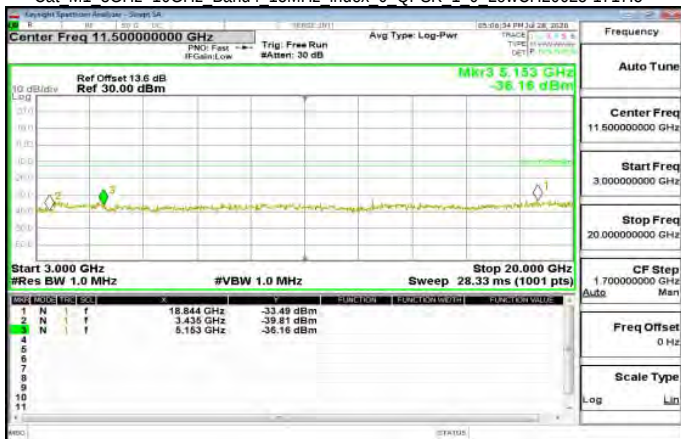
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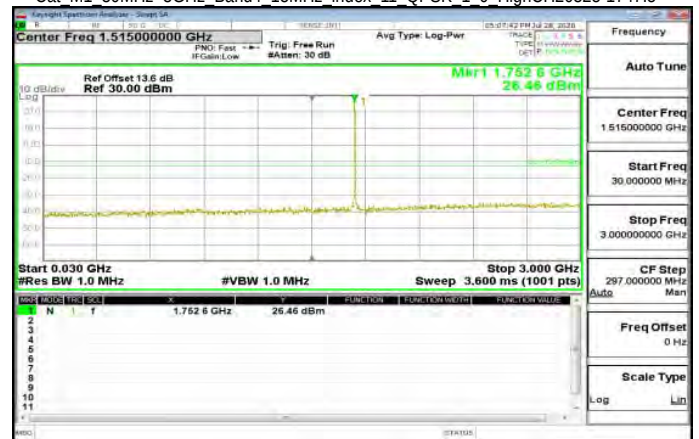
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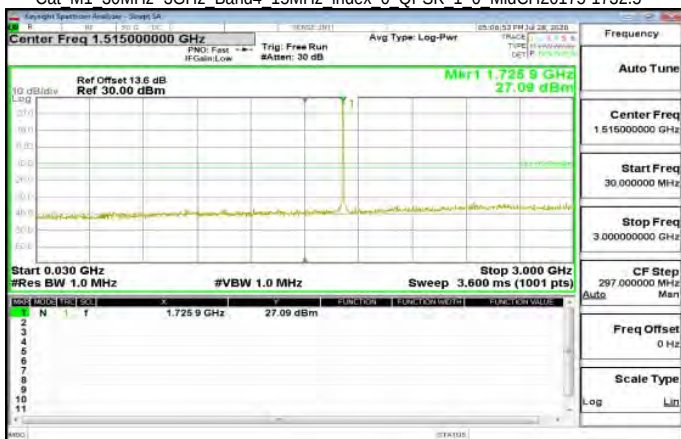
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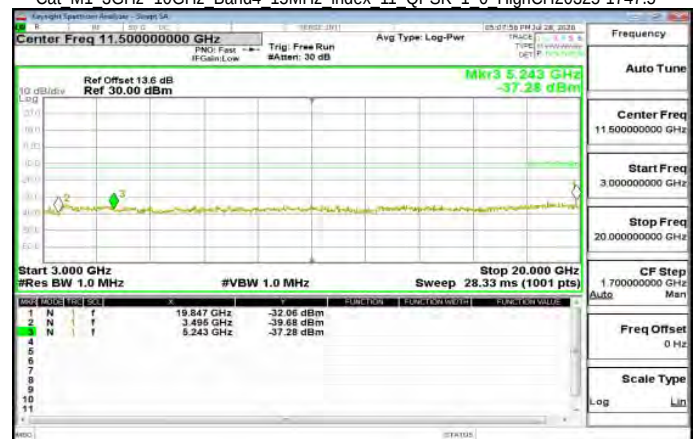
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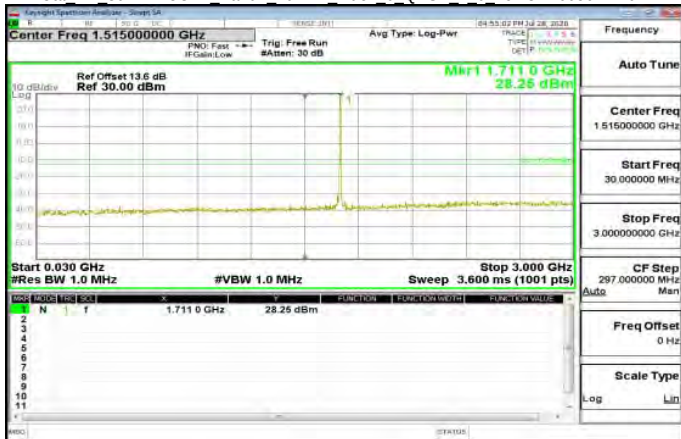


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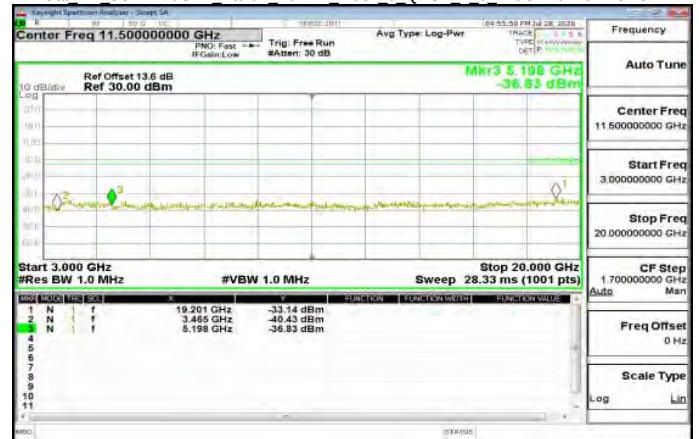
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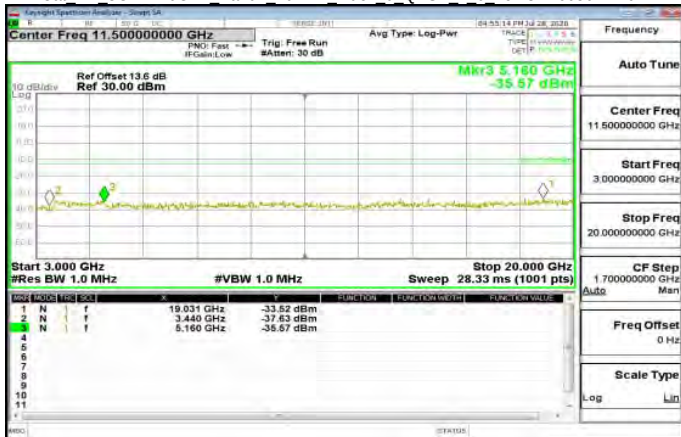
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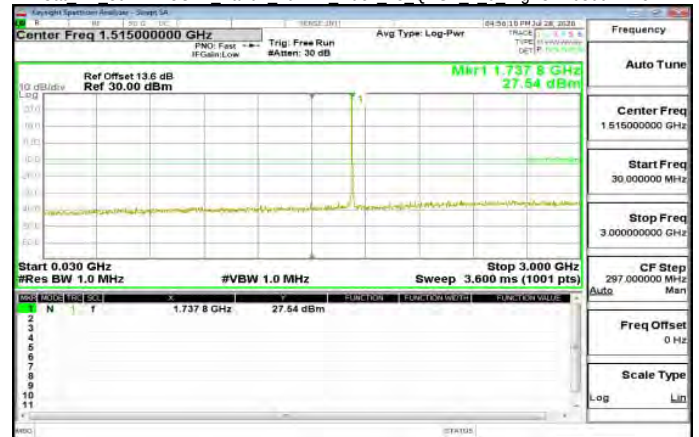
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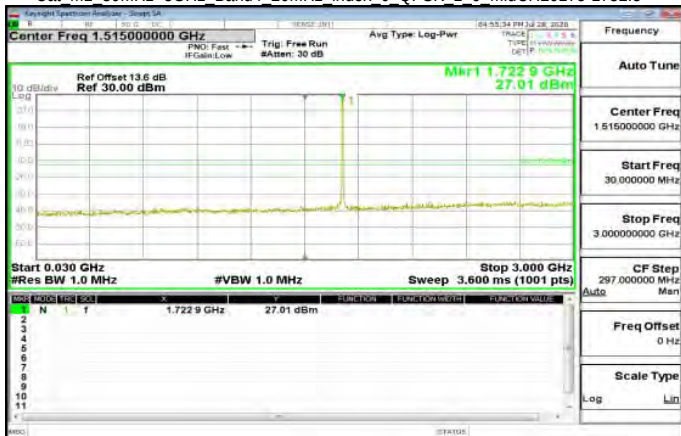
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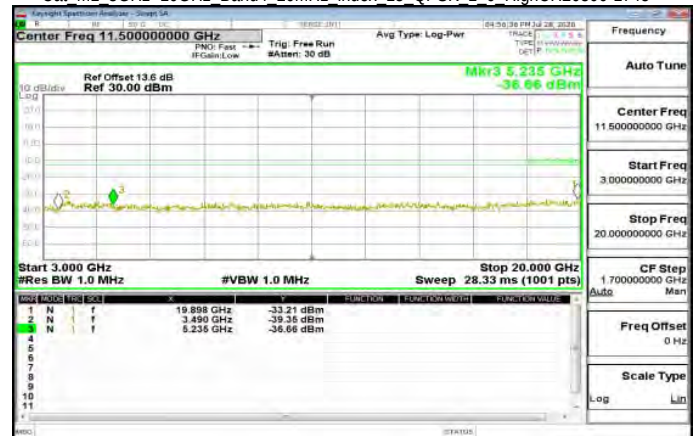
Cat M1 30MHz~3GHz Band4 20MHz index 15 QPSK 1 0 HighCH20300-1745



Cat M1 30MHz~3GHz Band4 20MHz index 0 QPSK 1 0 MidCH20175-1732.5



Cat M1 3GHz~10GHz Band4 20MHz index 15 QPSK 1 0 HighCH20300-1745



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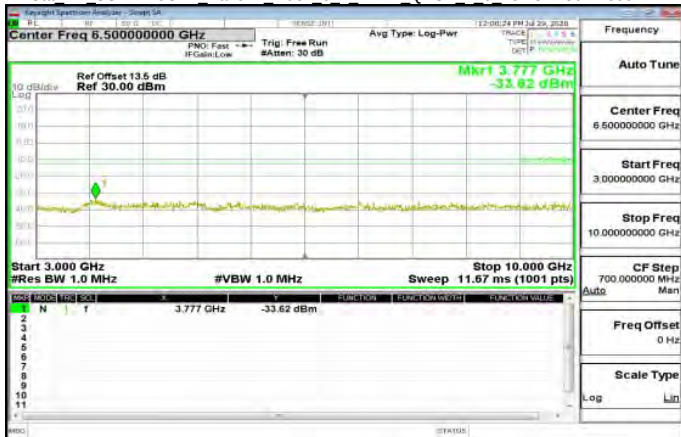
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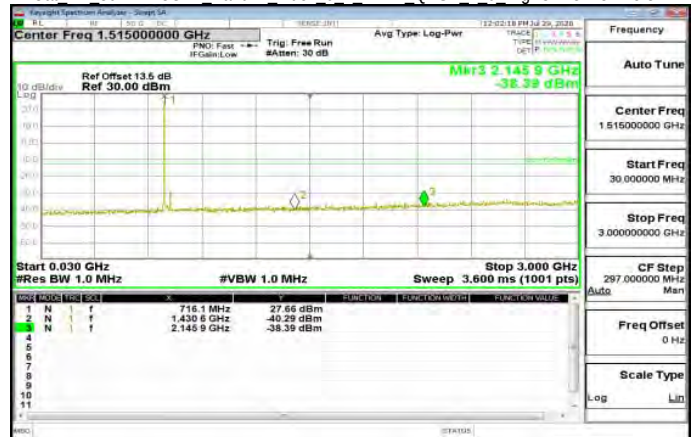
Cat M1 3GHz-10GHz Band12 index 0 1 4MHz QPSK 1 0 MidCH23095-707.5



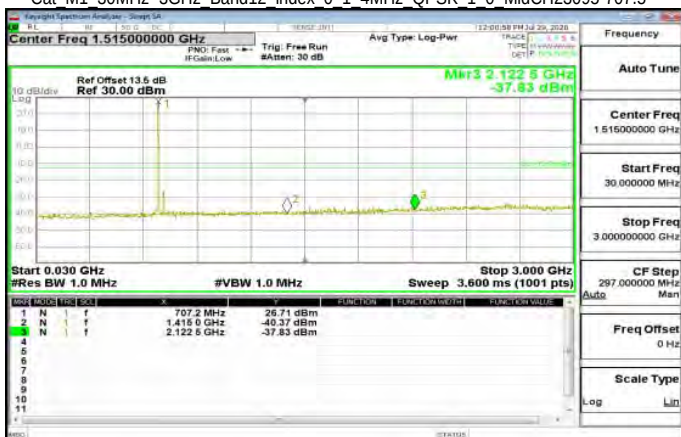
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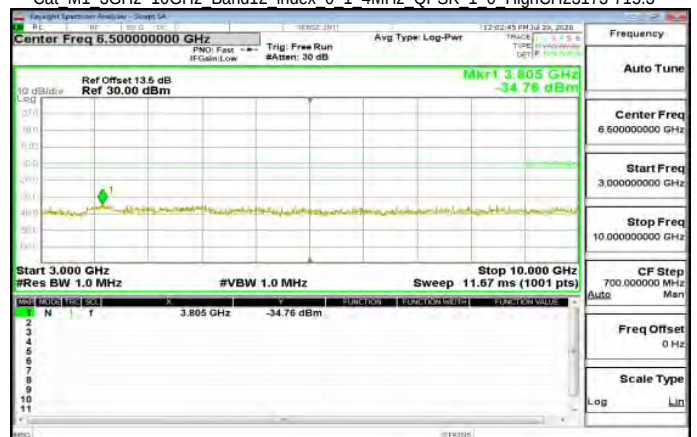
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Cat M1 30MHz-3GHz Band12 index 0 1 4MHz QPSK 1 0 MidCH23095-707.5



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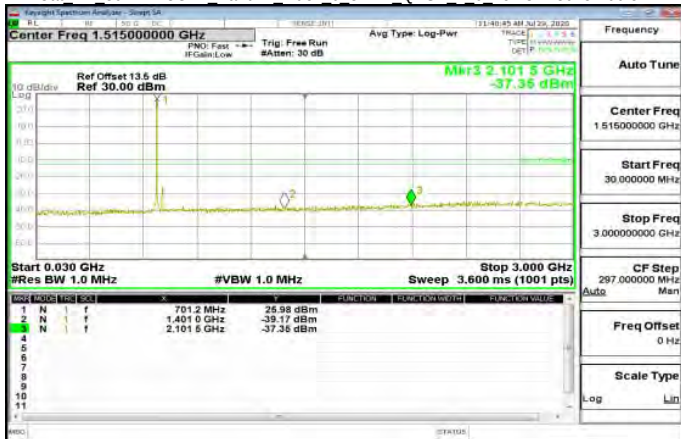


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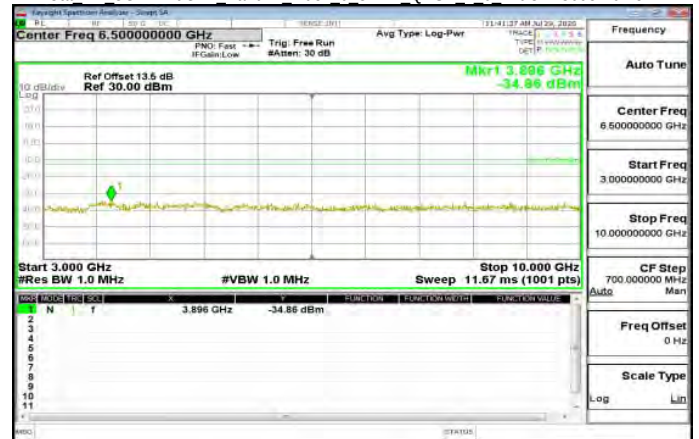
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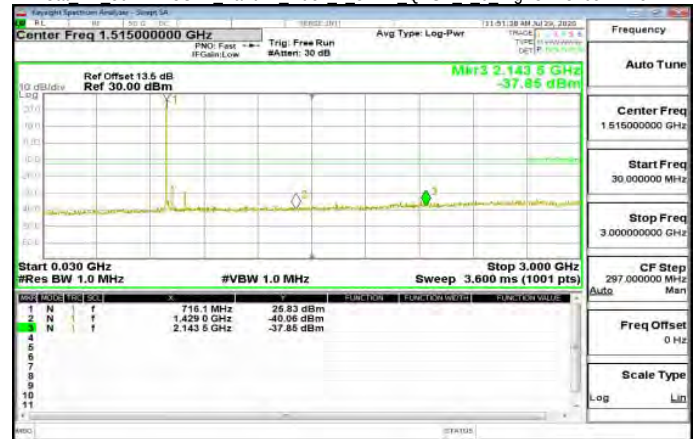
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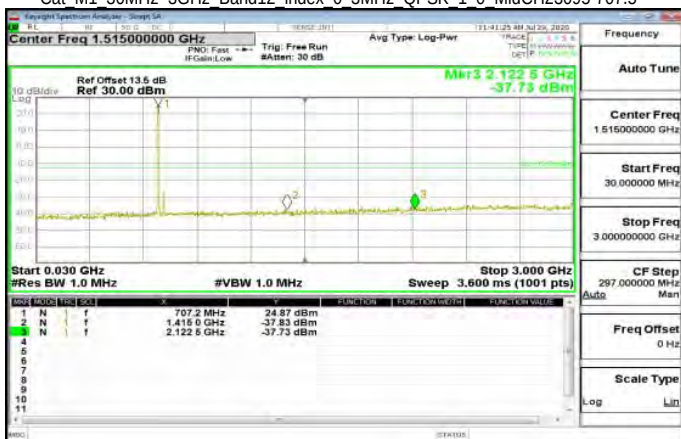
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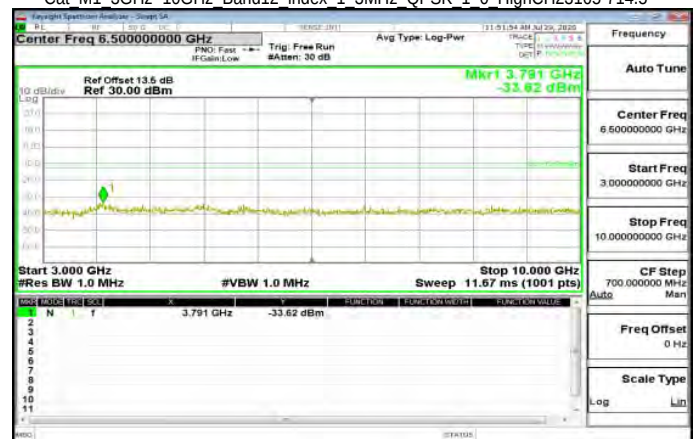
Cat M1 30MHz-3GHz Band12 index 1 3MHz QPSK 1 0 HighCH23165-714.5



Cat M1 30MHz-3GHz Band12 index 0 3MHz QPSK 1 0 MidCH23095-707.5



Cat M1 3GHz-10GHz Band12 index 1 3MHz QPSK 1 0 HighCH23165-714.5



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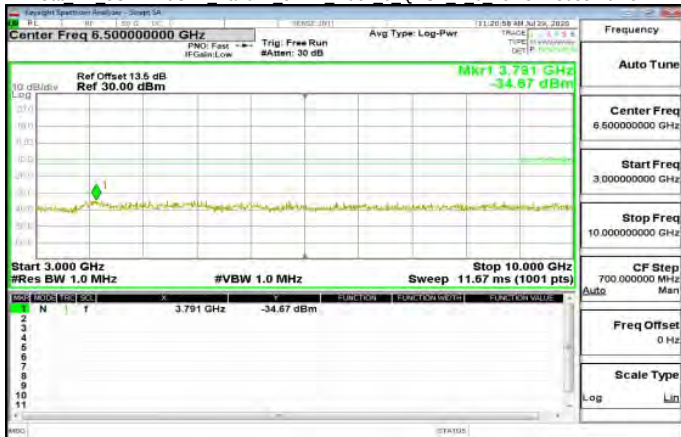
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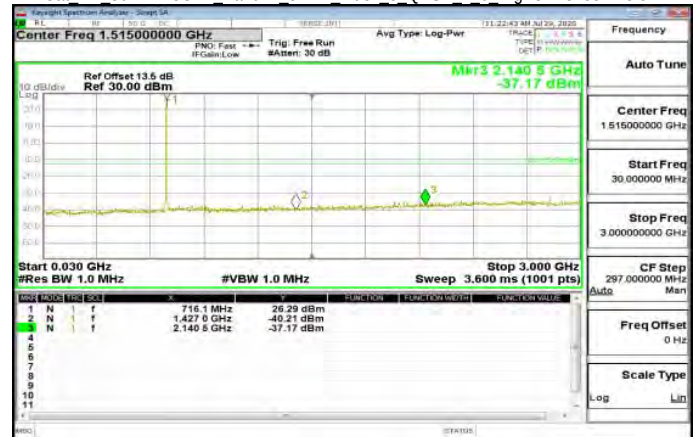
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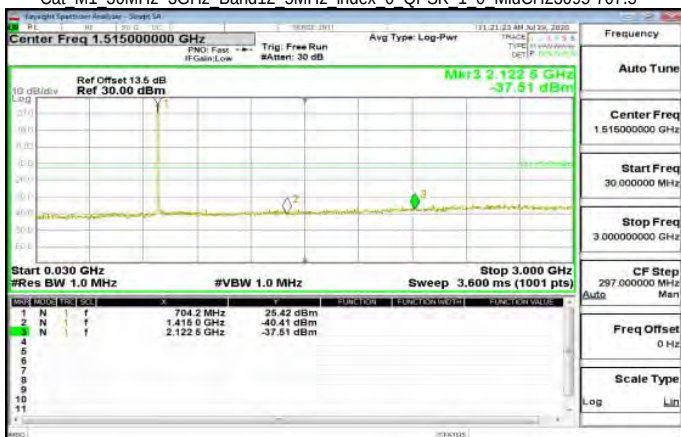
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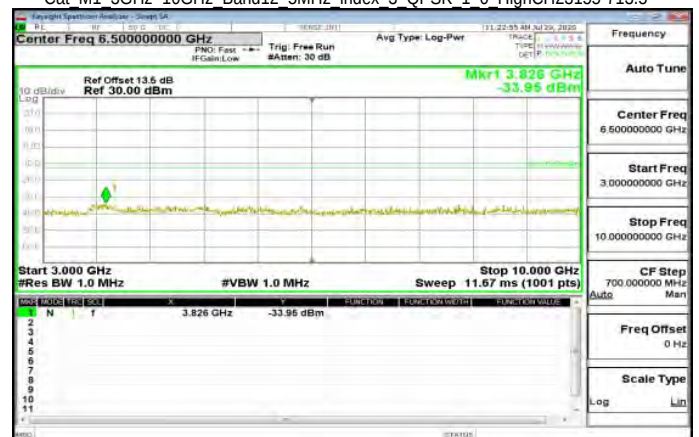
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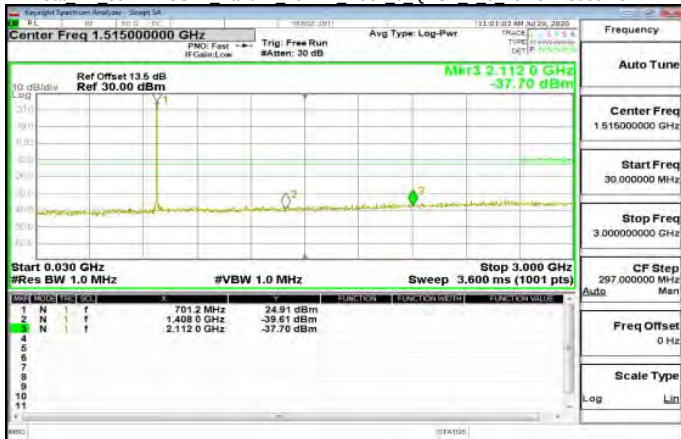


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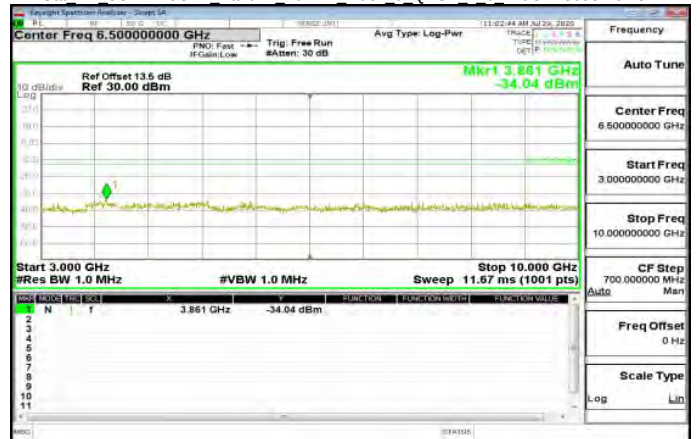
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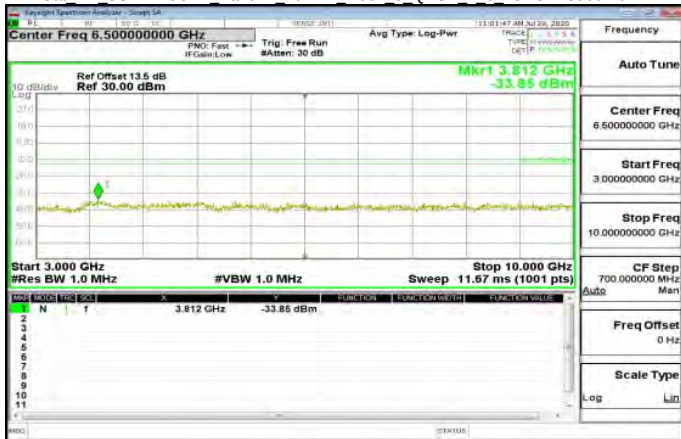
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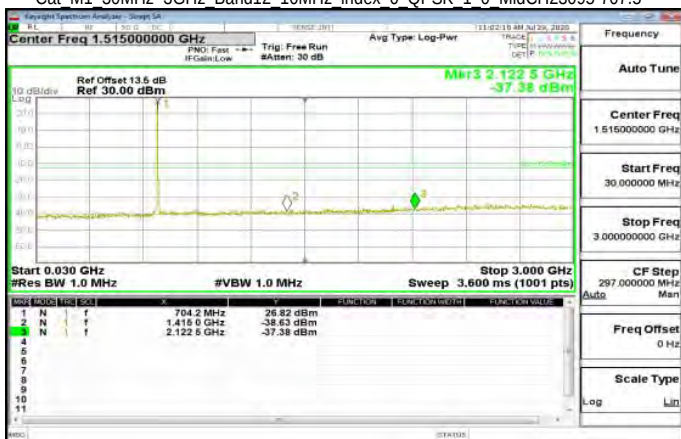
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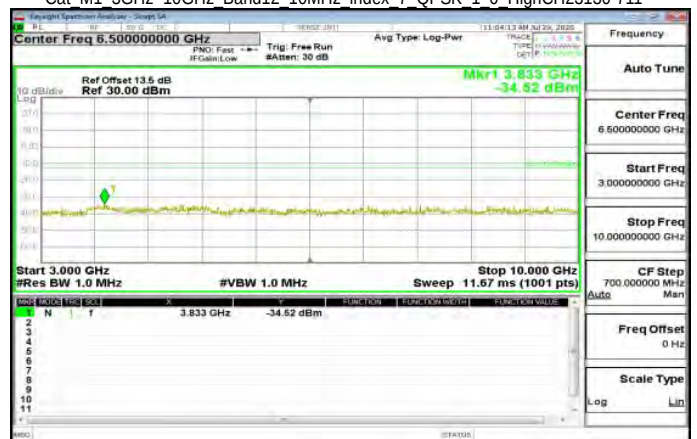
Cat M1 30MHz~3GHz Band12 10MHz index 7 QPSK 1 0 HighCH23130-711



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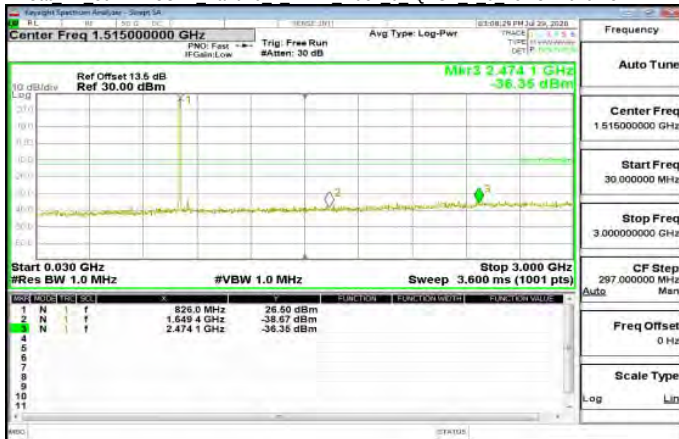


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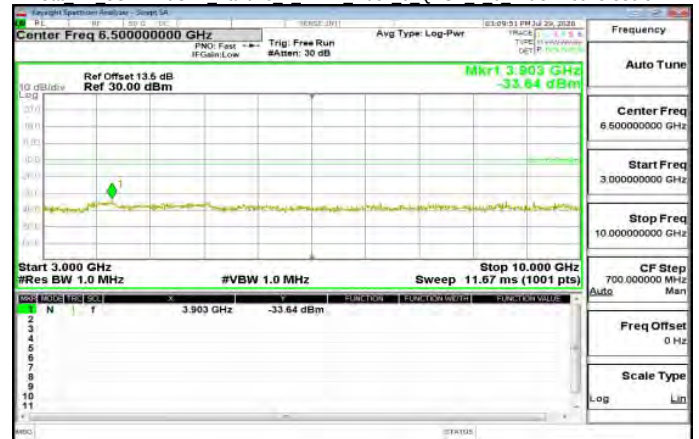
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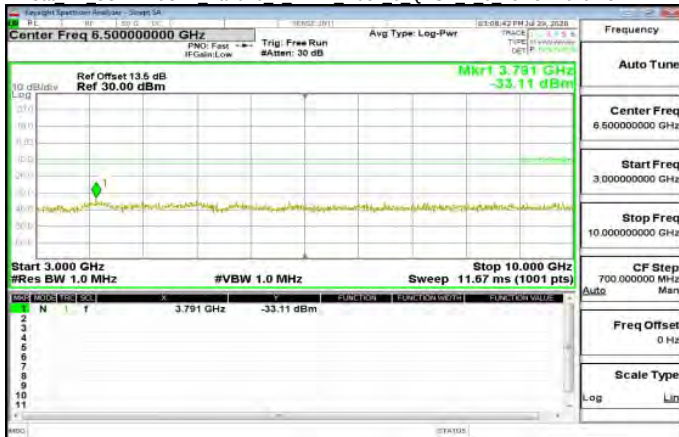
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Cat M1 3GHz-10GHz Band26 1 4MHz index 0 QPSK 1 0 MidCH26915-836.5



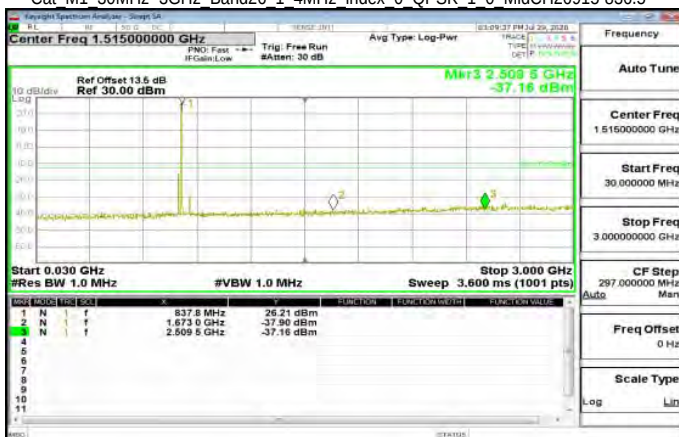
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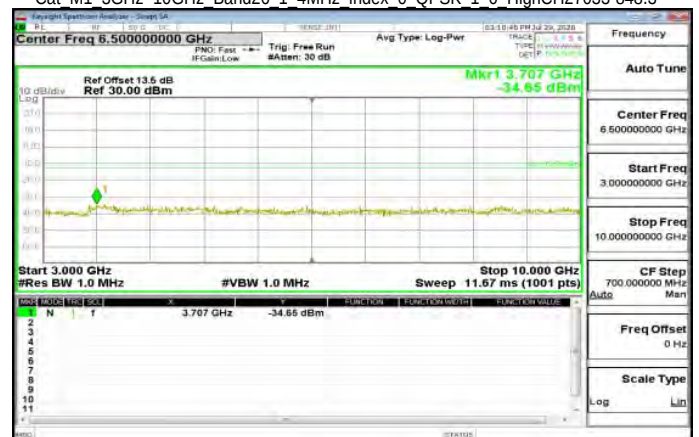
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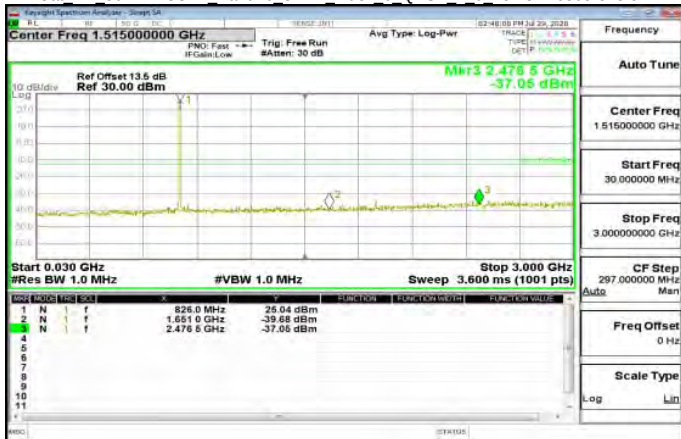


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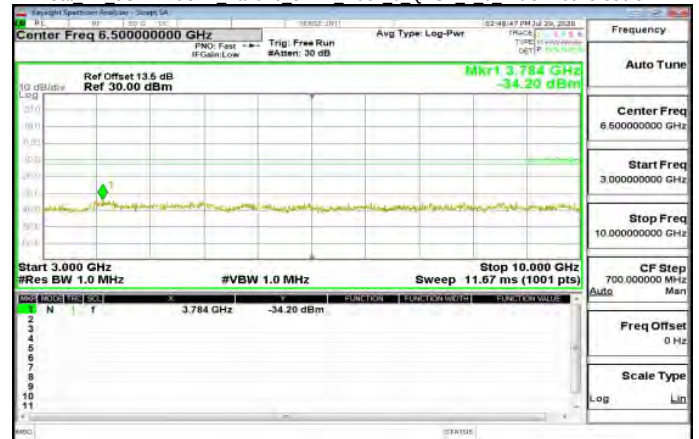
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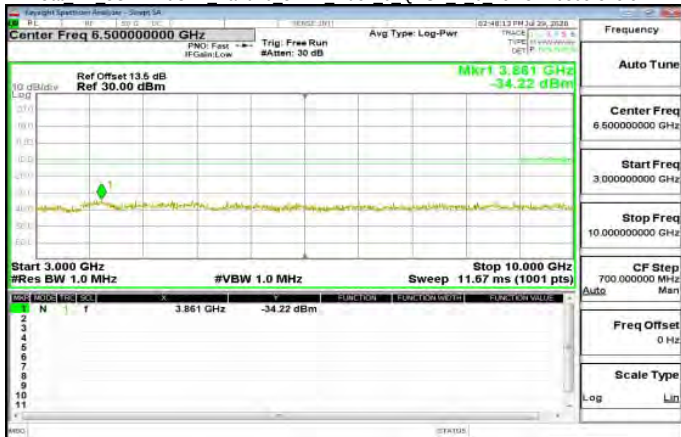
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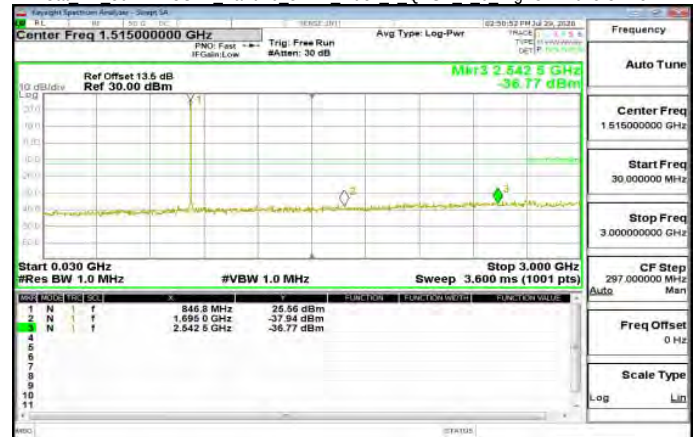
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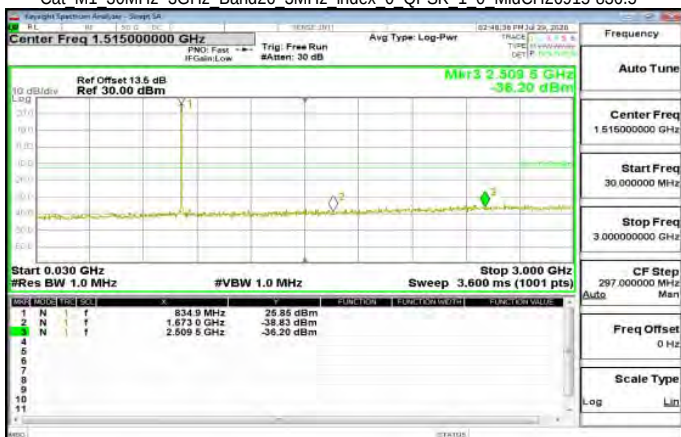
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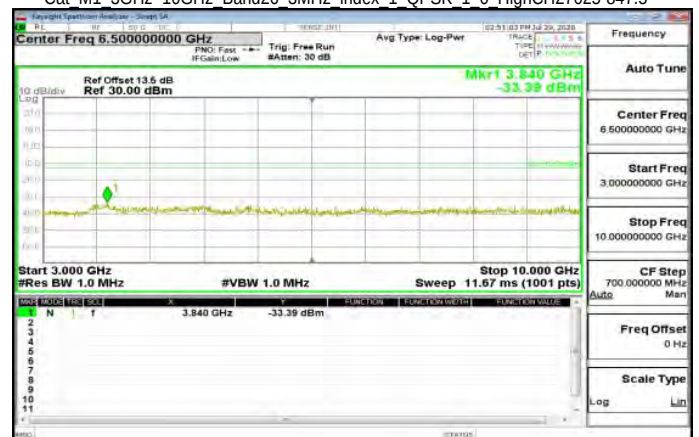
Cat M1 30MHz-3GHz Band26 3MHz index 1 QPSK 1 0 HighCH27025-847.5



Cat M1 30MHz-3GHz Band26 3MHz index 0 QPSK 1 0 MidCH26915-836.5



Cat M1 3GHz-10GHz Band26 3MHz index 1 QPSK 1 0 HighCH27025-847.5



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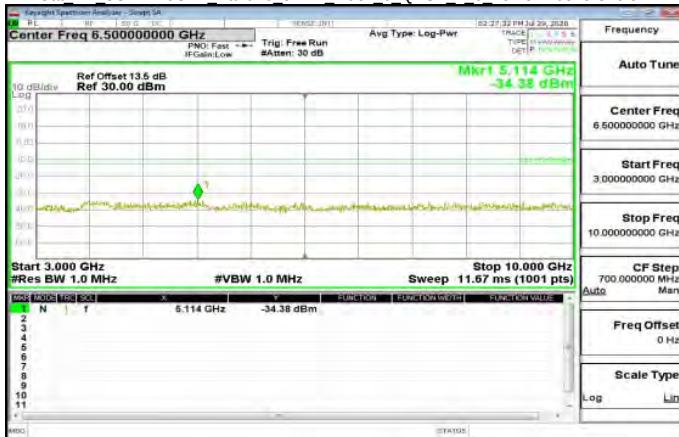
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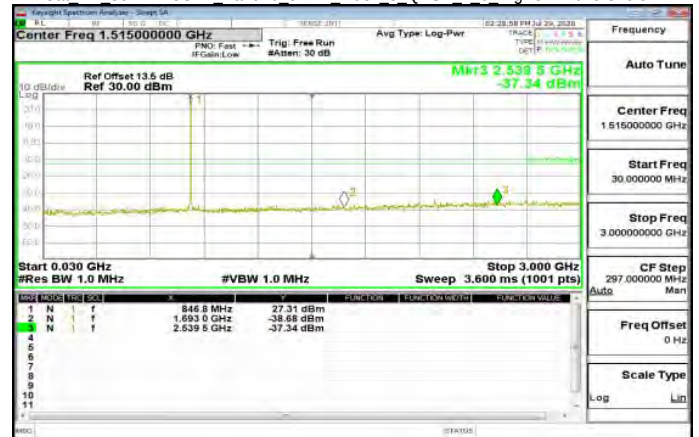
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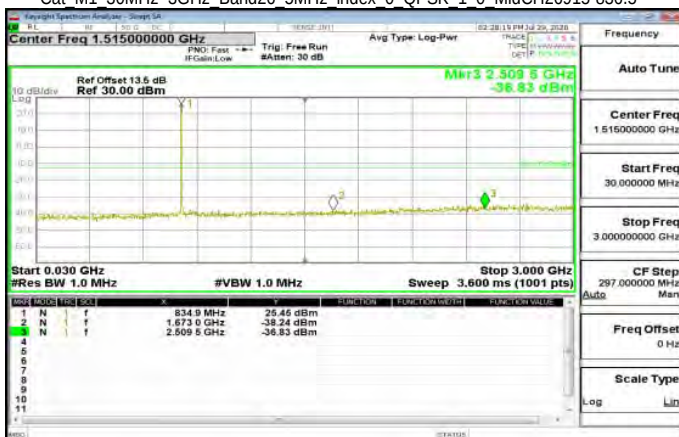
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Cat M1 30MHz-3GHz Band26 5MHz index 3 QPSK 1 0 HighCH27015-846.5



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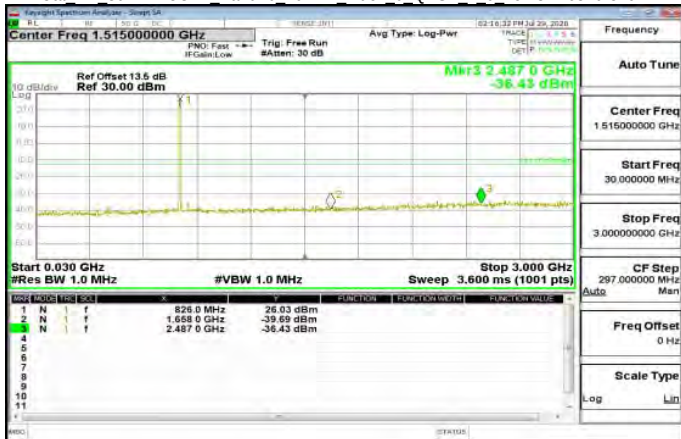


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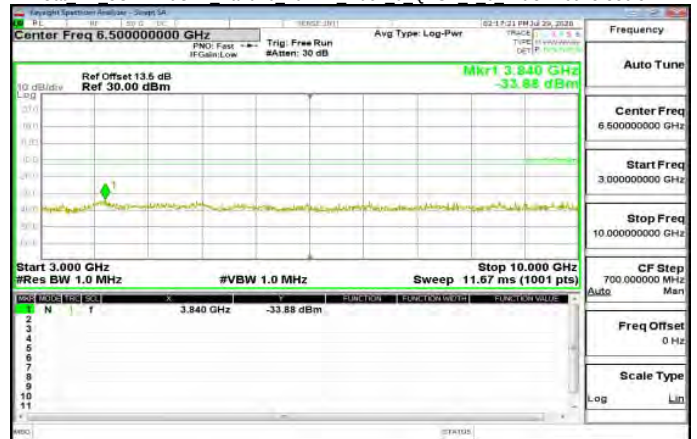
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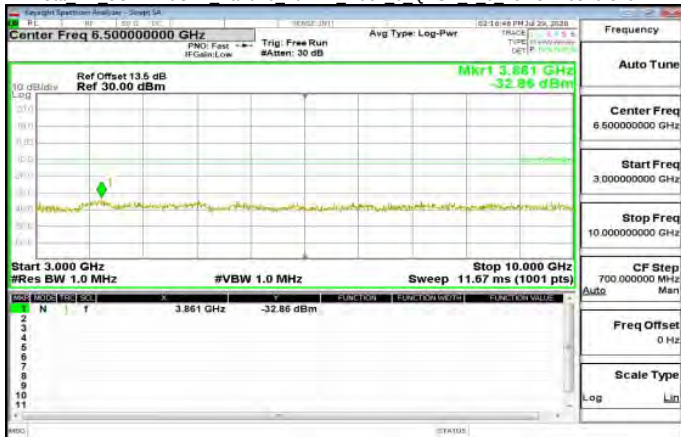
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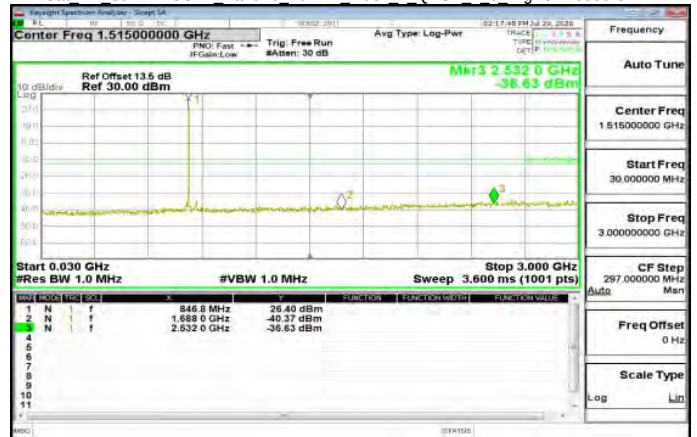
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Cat M1 3GHz~10GHz Band26 10MHz index 0 QPSK 1 0 LowCH26840-829



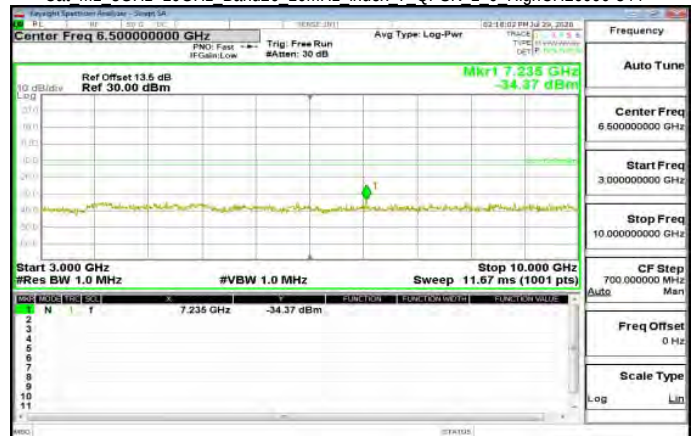
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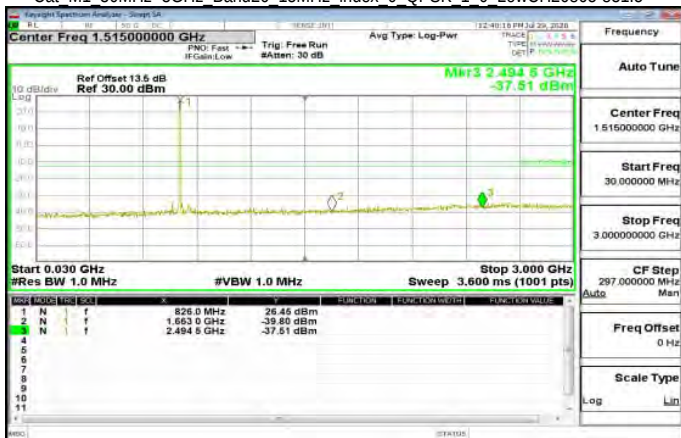


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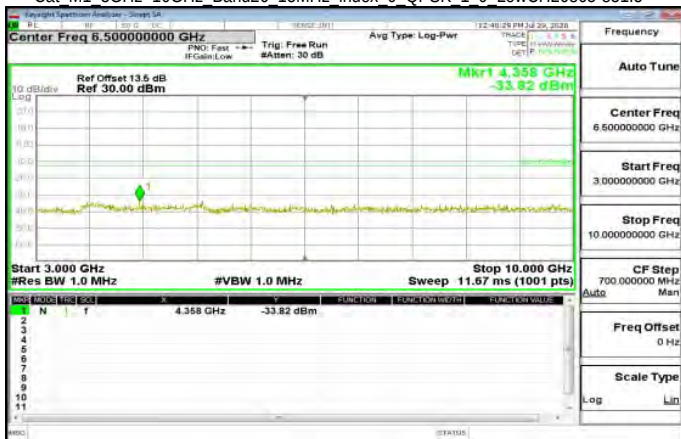
Cat M1 30MHz~3GHz Band26 15MHz index 0 QPSK 1 0 LowCH26865-831.5



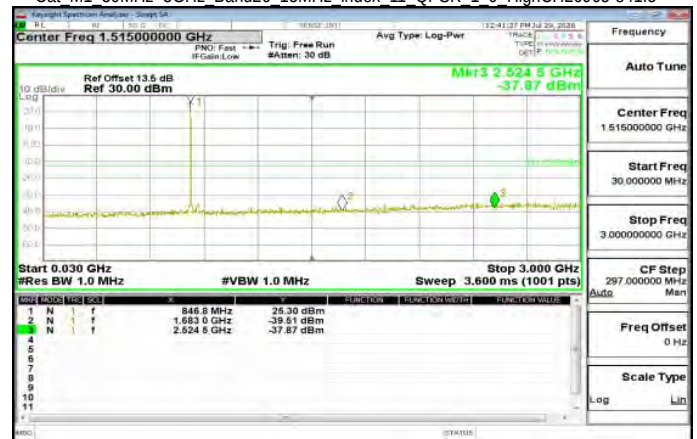
Cat M1 3GHz~10GHz Band26 15MHz index 0 QPSK 1 0 MidCH26915-836.5



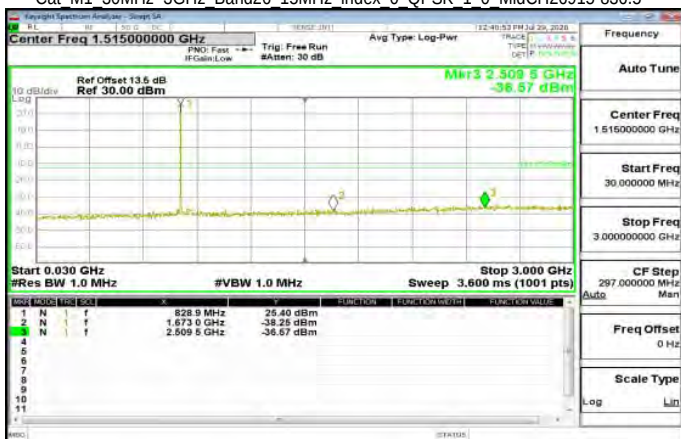
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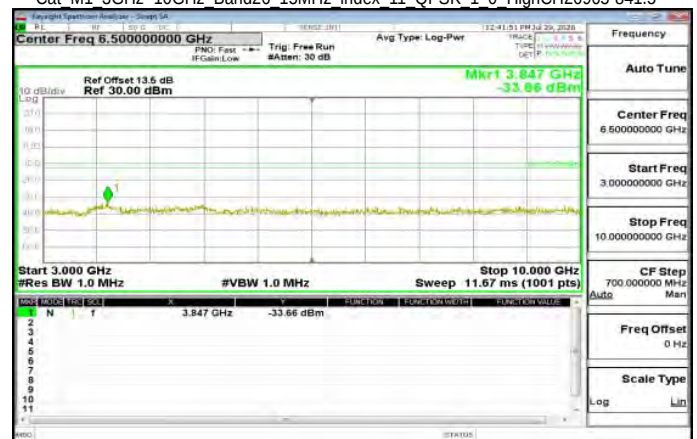
Cat M1 30MHz~3GHz Band26 15MHz index 11 QPSK 1 0 HighCH26965-841.5



Cat M1 30MHz~3GHz Band26 15MHz index 0 QPSK 1 0 MidCH26915-836.5



Cat M1 3GHz~10GHz Band26 15MHz index 11 QPSK 1 0 HighCH26965-841.5



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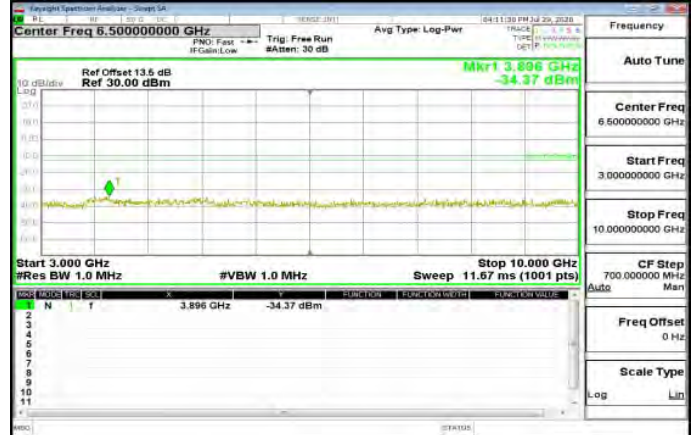
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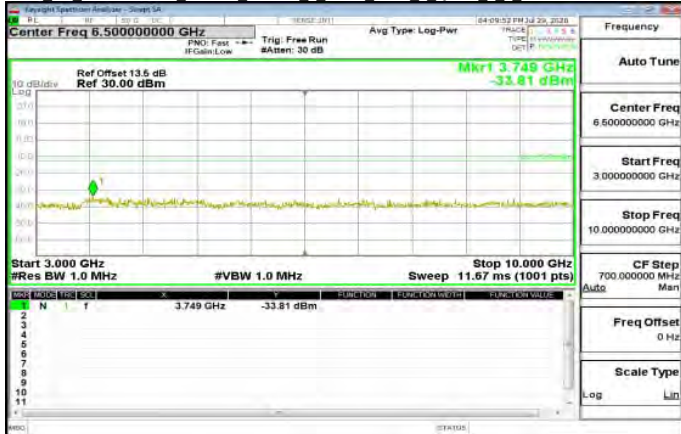
Cat M1 30MHz~3GHz Band26 Part90s 1 4MHz index 0 QPSK 1 0 LowCH26697-814.7



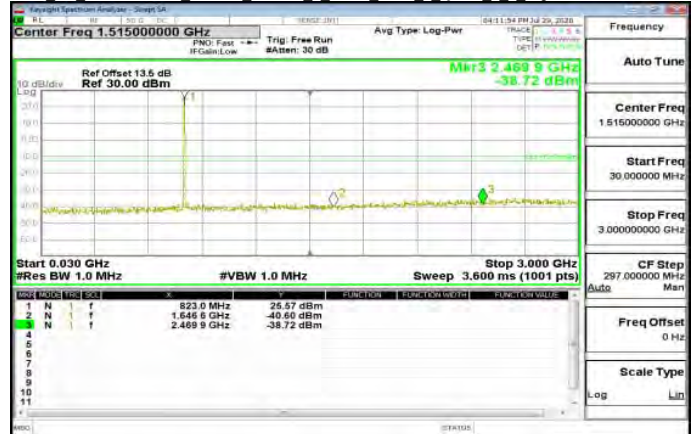
Cat M1 3GHz~10GHz Band26 Part90s 1 4MHz index 0 QPSK 1 0 MidCH26740-819



Cat M1 3GHz~10GHz Band26 Part90s 1 4MHz index 0 QPSK 1 0 LowCH26697-814.7



Cat M1 30MHz~3GHz Band26 Part90s 1 4MHz index 0 QPSK 1 0 HighCH26783-823.3



Cat M1 30MHz~3GHz Band26 Part90s 1 4MHz index 0 QPSK 1 0 MidCH26740-819



Cat M1 3GHz~10GHz Band26 Part90s 1 4MHz index 0 QPSK 1 0 HighCH26783-823.3

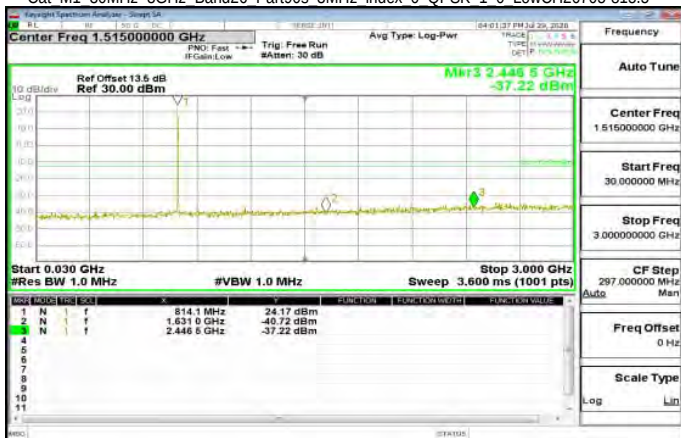


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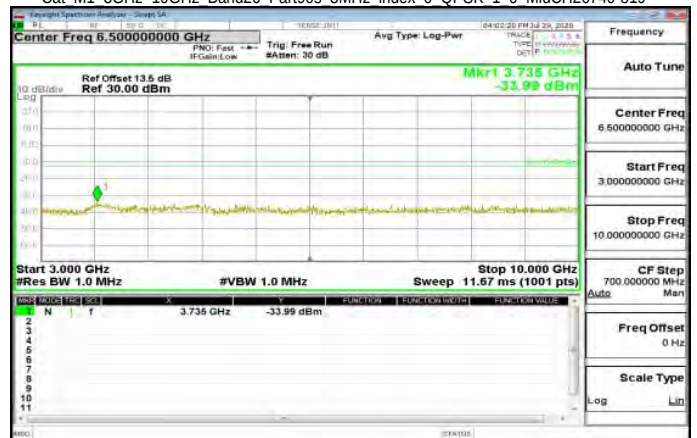
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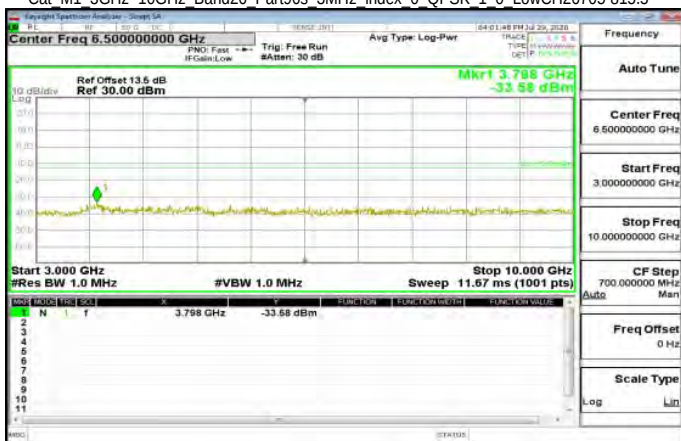
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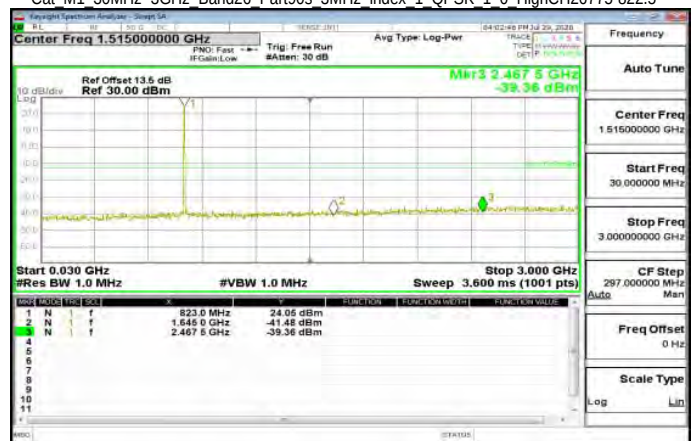
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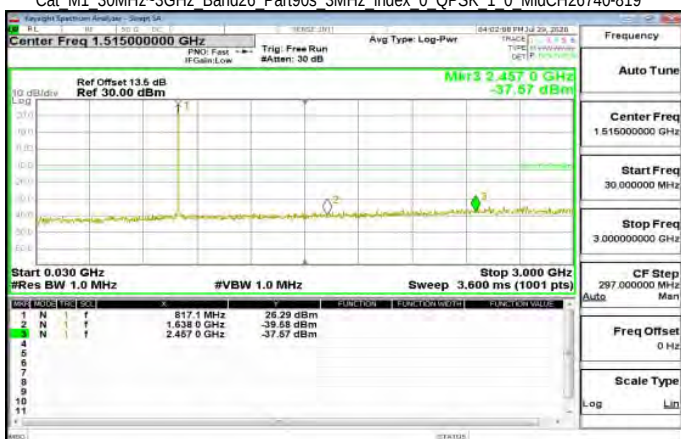
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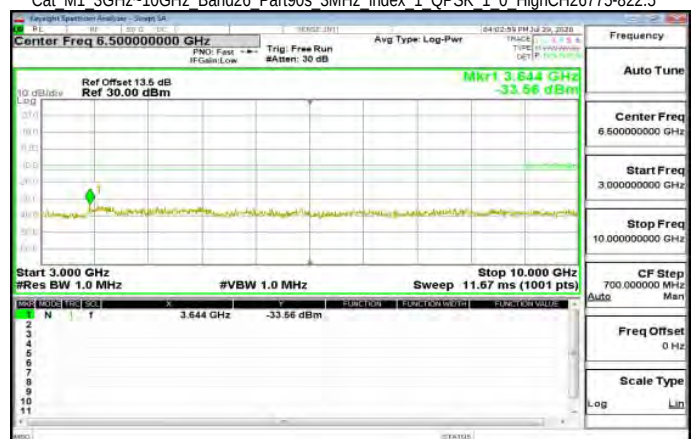
Cat M1 30MHz-3GHz Band26 Part90s 3MHz index 1 QPSK 1 0 HighCH26775-822.5



Cat M1 30MHz-3GHz Band26 Part90s 3MHz index 0 QPSK 1 0 MidCH26740-819



Cat M1 3GHz-10GHz Band26 Part90s 3MHz index 1 QPSK 1 0 HighCH26775-822.5

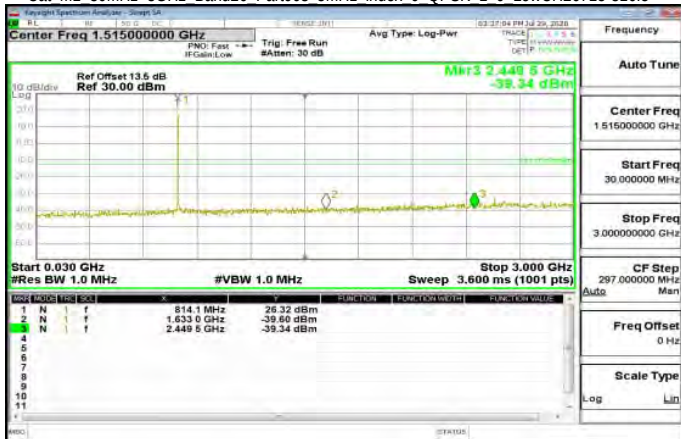


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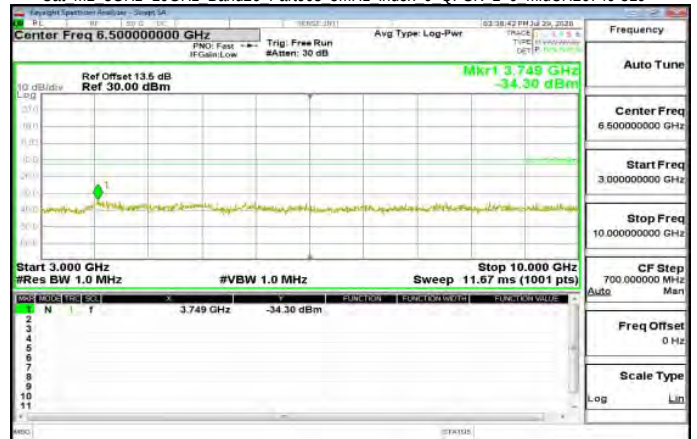
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Cat M1 30MHz-3GHz Band26 Part90s 5MHz index 0 QPSK 1 0 LowCH26715-816.5



Cat M1 3GHz-10GHz Band26 Part90s 5MHz index 0 QPSK 1 0 MidCH26740-819



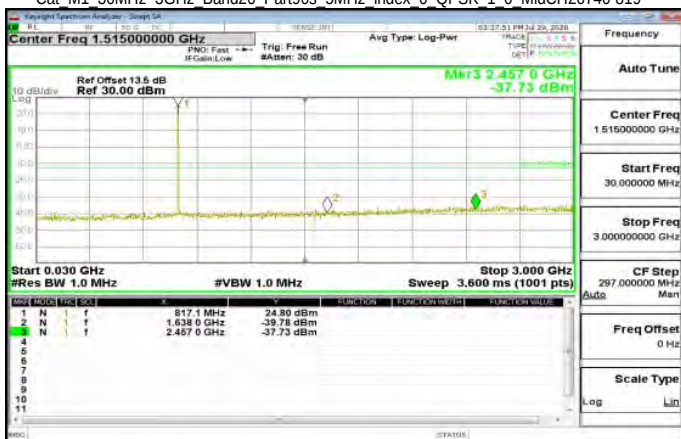
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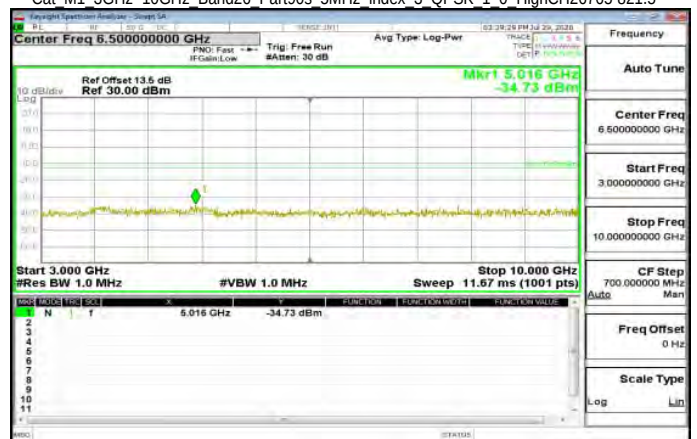
Cat M1 30MHz-3GHz Band26 Part90s 5MHz index 3 QPSK 1 0 HighCH26765-821.5



Cat M1 30MHz-3GHz Band26 Part90s 5MHz index 0 QPSK 1 0 MidCH26740-819



Cat M1 3GHz-10GHz Band26 Part90s 5MHz index 3 QPSK 1 0 HighCH26765-821.5

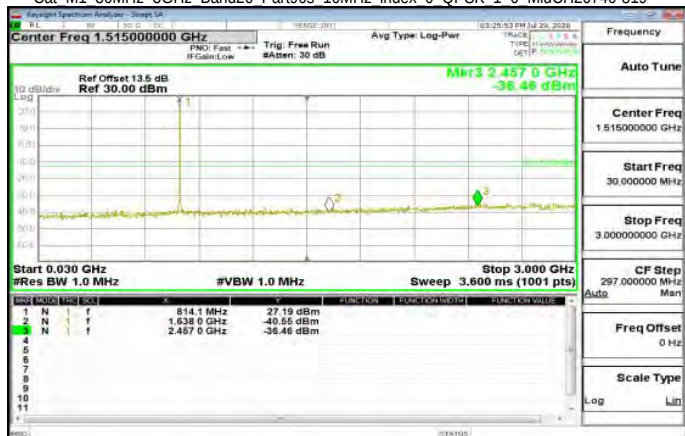


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Cat M1 30MHz-3GHz Band26 Part90s 10MHz index 0 QPSK 1 0 MidCH26740-819



Cat M1 3GHz-10GHz Band26 Part90s 10MHz index 0 QPSK 1 0 MidCH26740-819



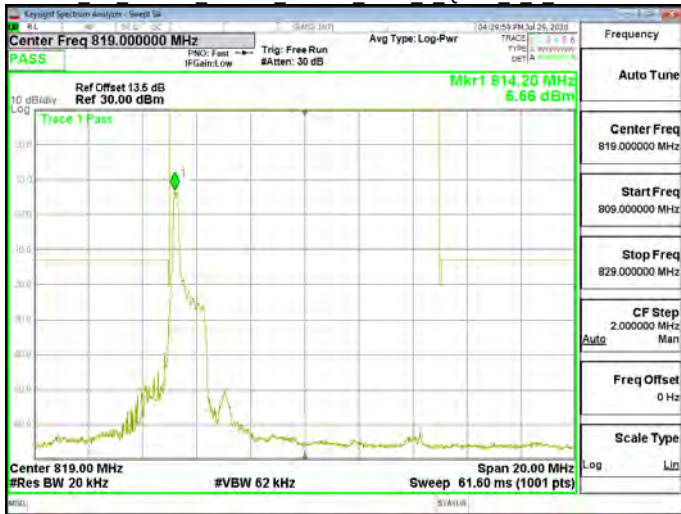
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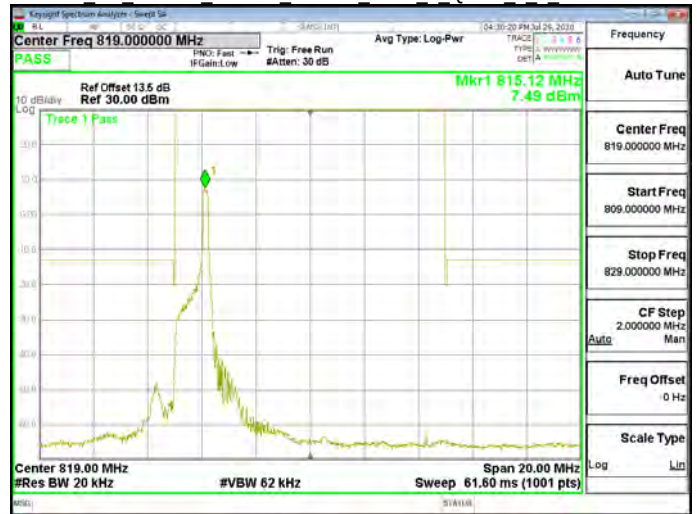
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8.5.3 Emissions Mask

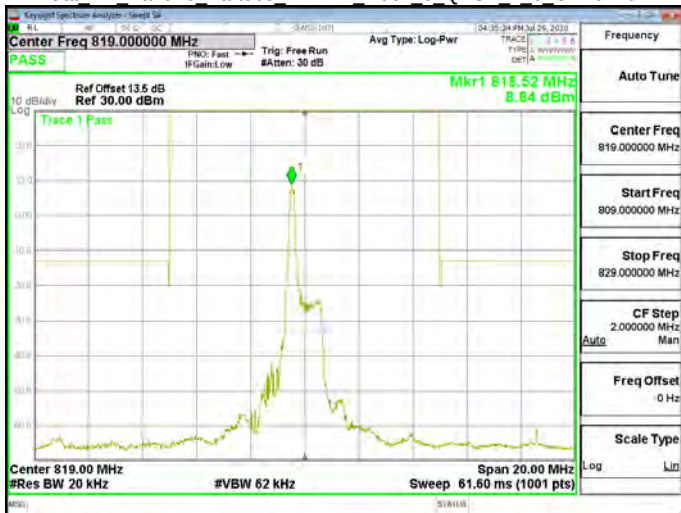
Cat M1_Band26_Part90s_1.4MHz_index 0_QPSK_1_0_CH26697



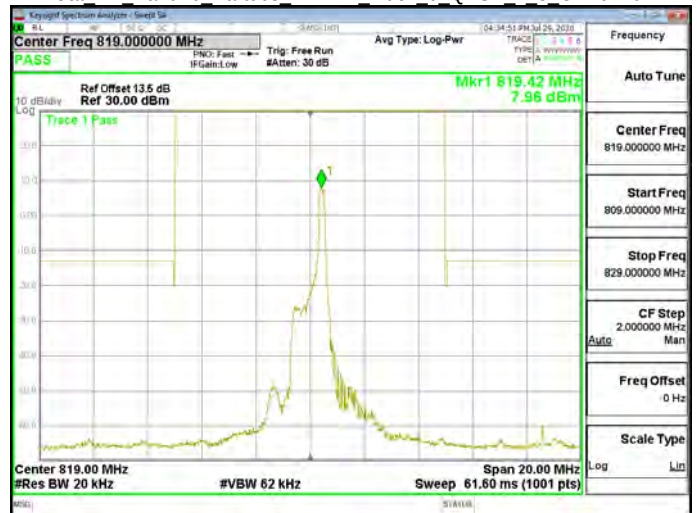
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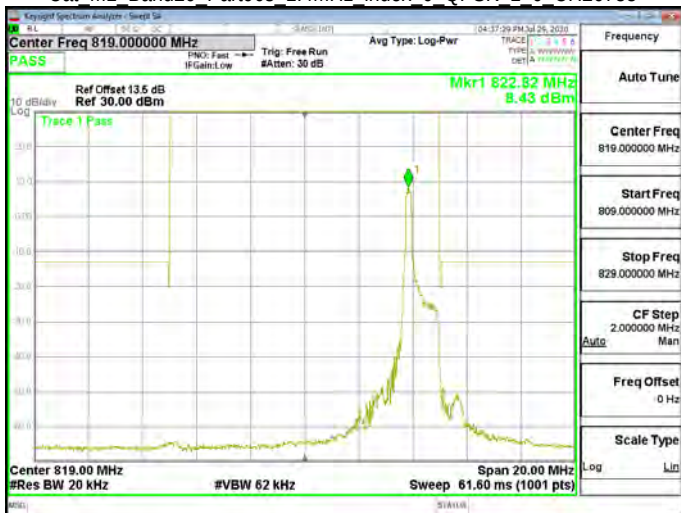
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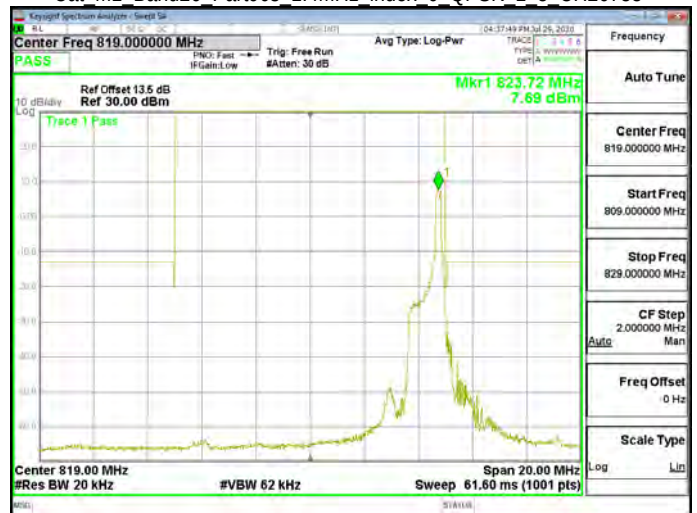
Cat M1_Band26_Part90s_1.4MHz_index 0_QPSK_1_5_CH26740



Cat M1_Band26_Part90s_1.4MHz_index 0_QPSK_1_0_CH26783



Cat M1_Band26_Part90s_1.4MHz_index 0_QPSK_1_5_CH26783

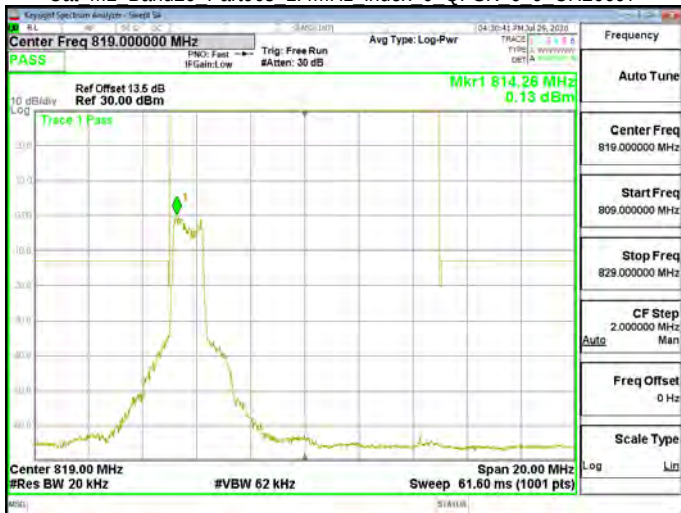


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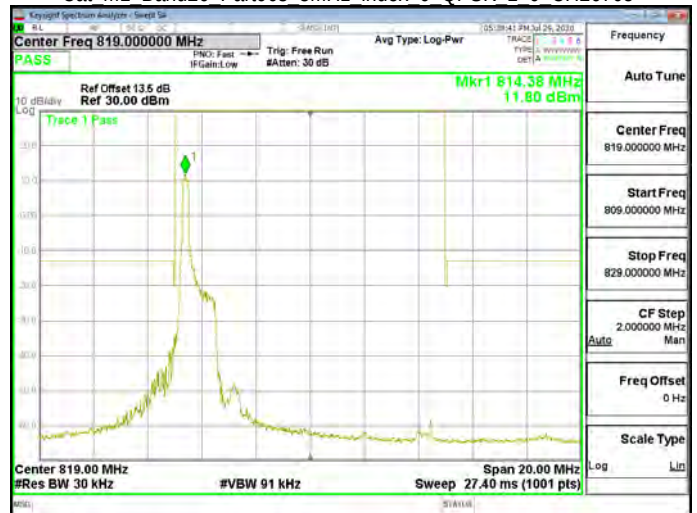
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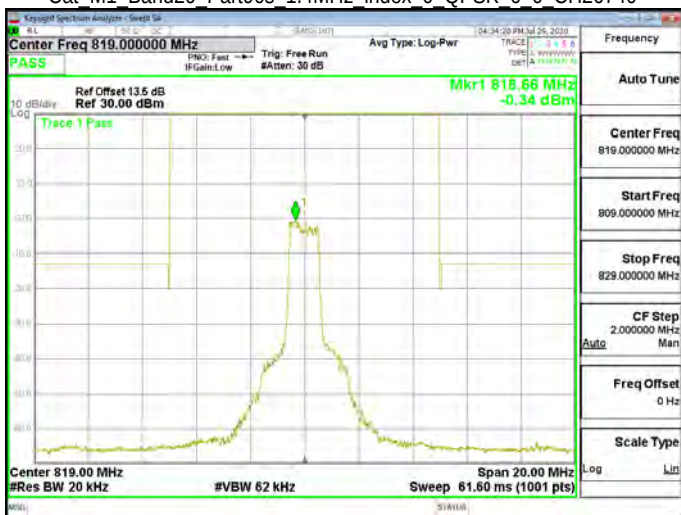
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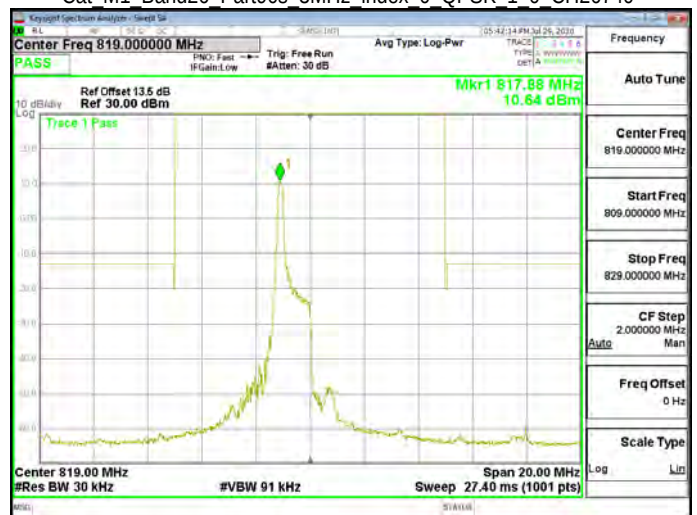
Cat M1 Band26 Part90s 3MHz index 0 QPSK 1 0 CH26705



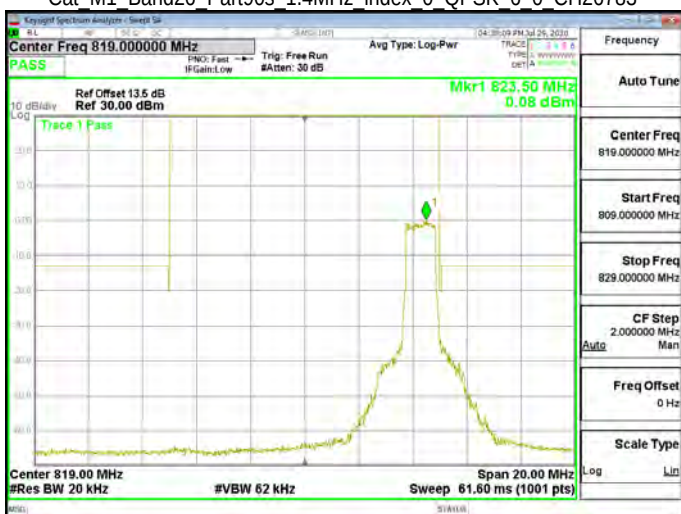
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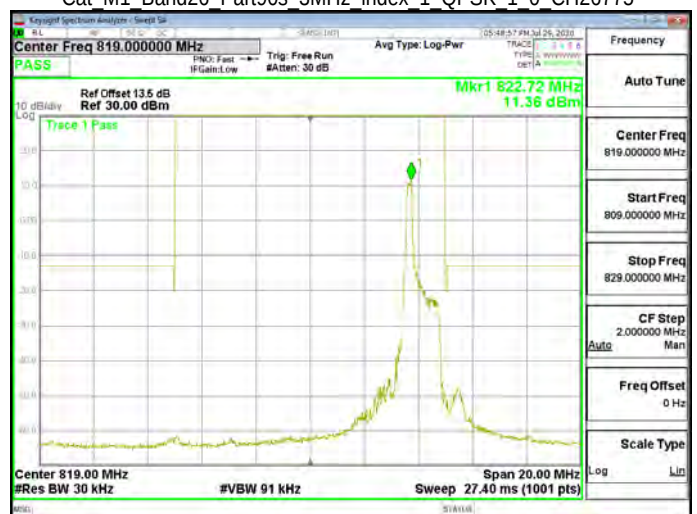
Cat M1 Band26 Part90s 3MHz index 0 QPSK 1 0 CH26740



Cat M1 Band26 Part90s 1.4MHz index 0 QPSK 6 0 CH26783



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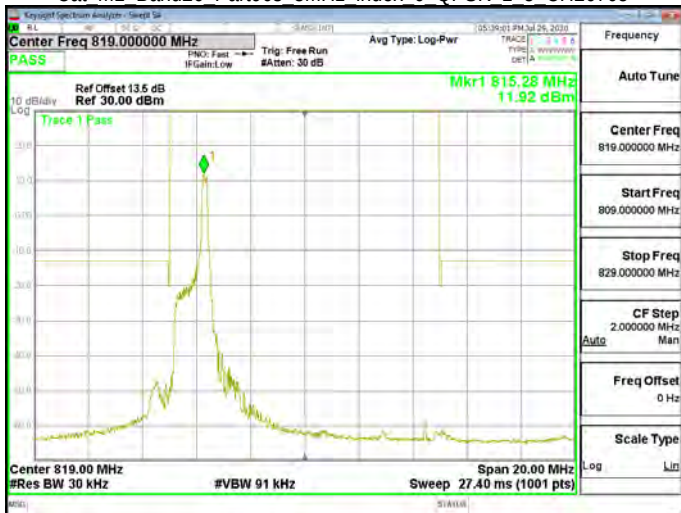


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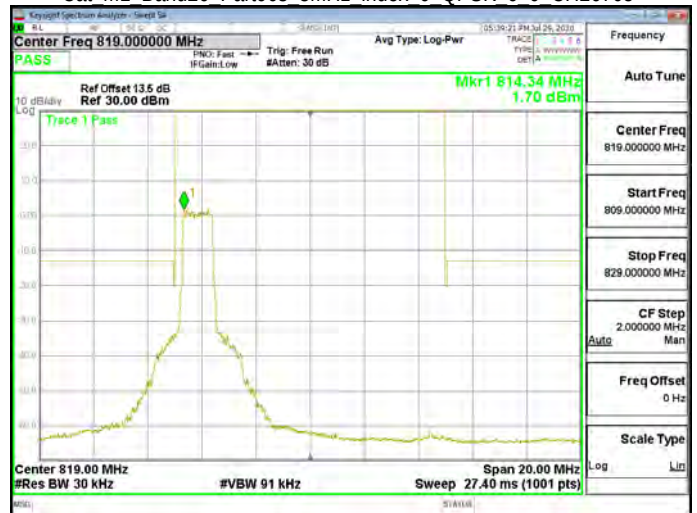
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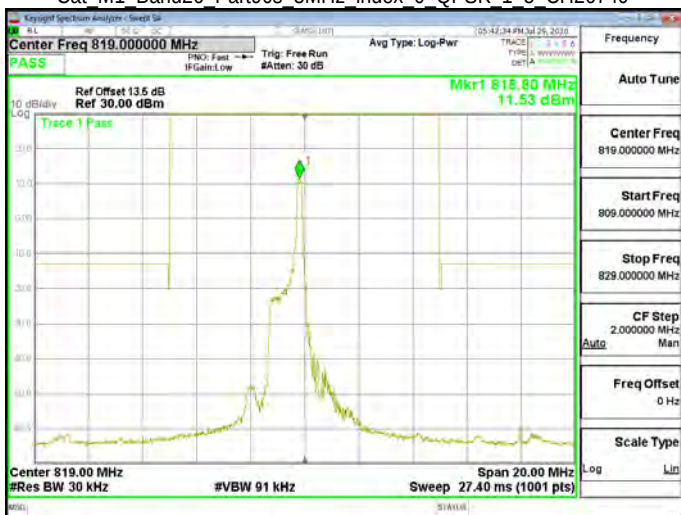
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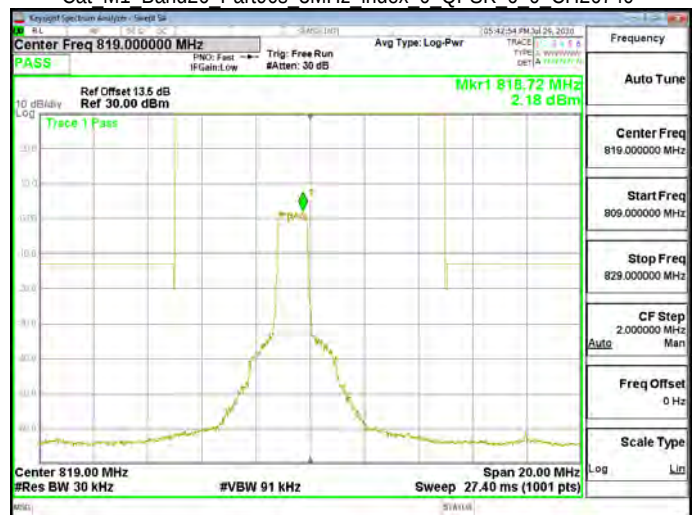
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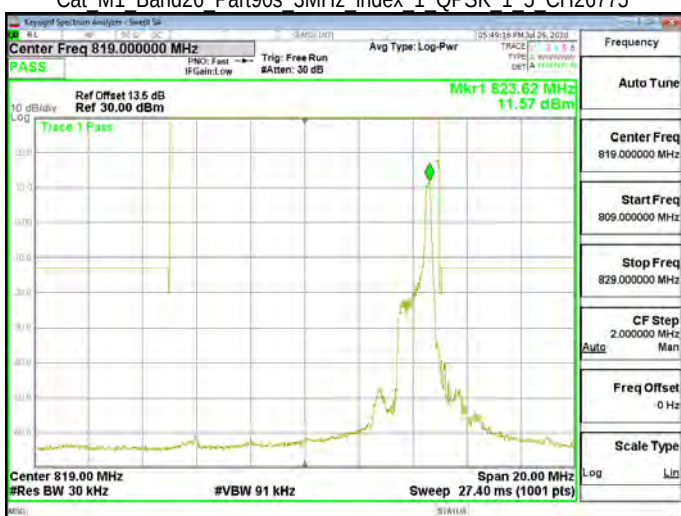
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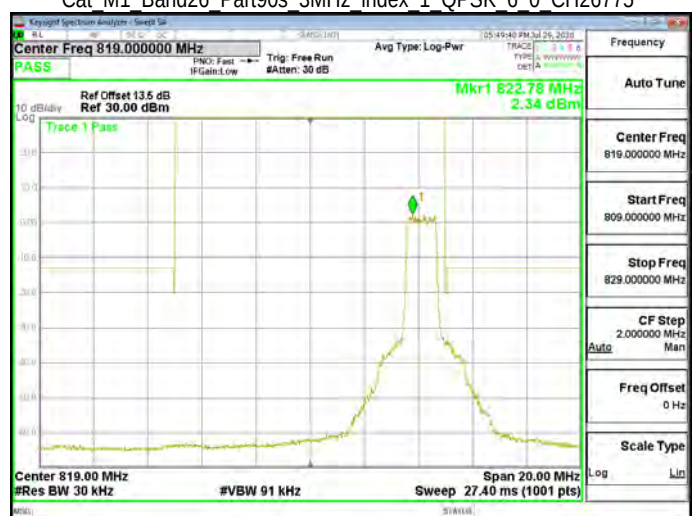
Cat M1 Band26 Part90s 3MHz index 0 QPSK 6 0 CH26740



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Cat M1 Band26 Part90s 3MHz index 1 QPSK 6 0 CH26775

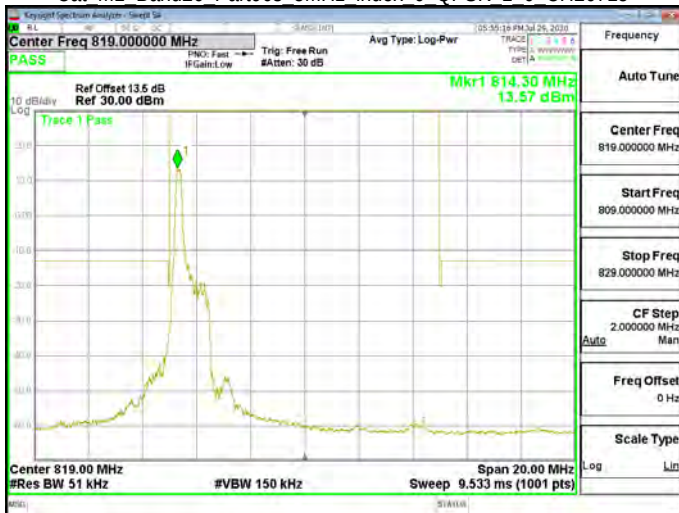


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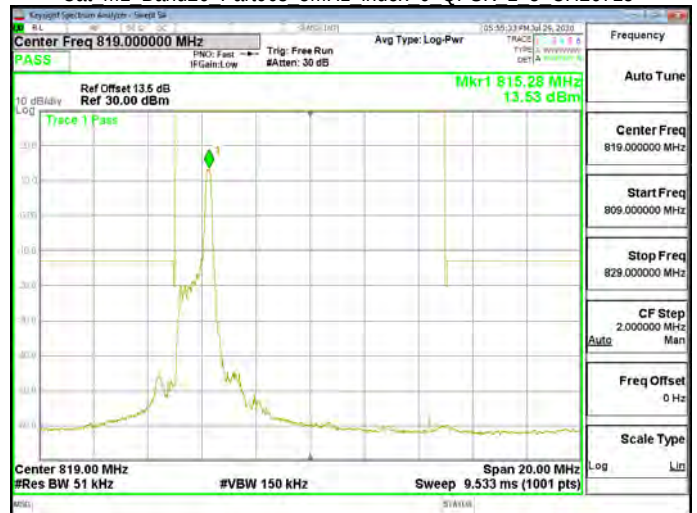
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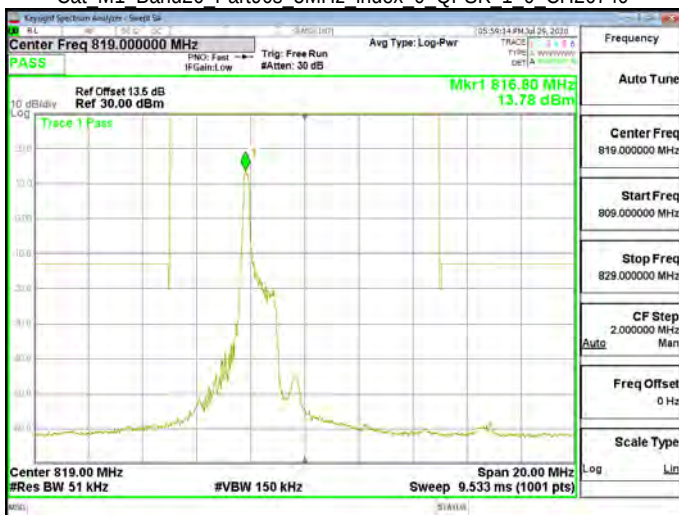
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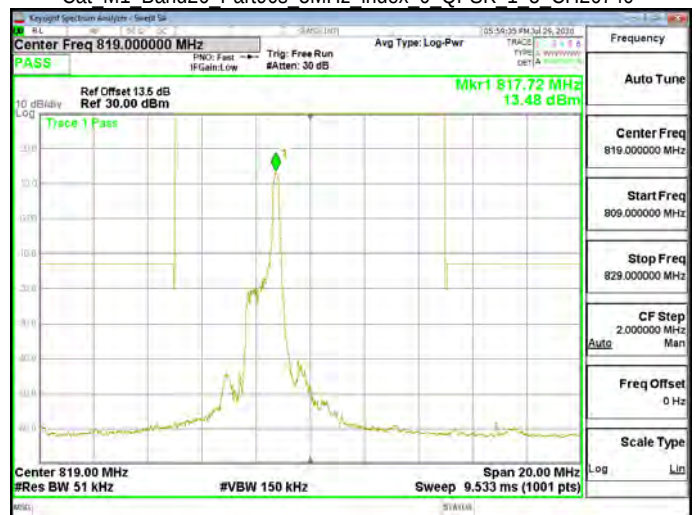
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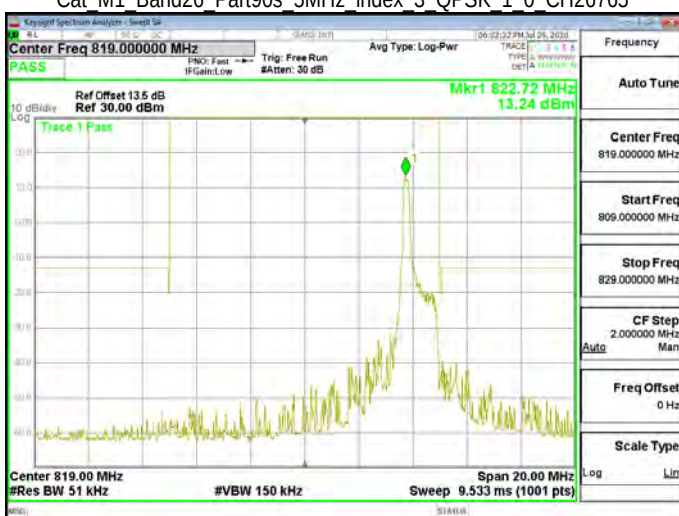
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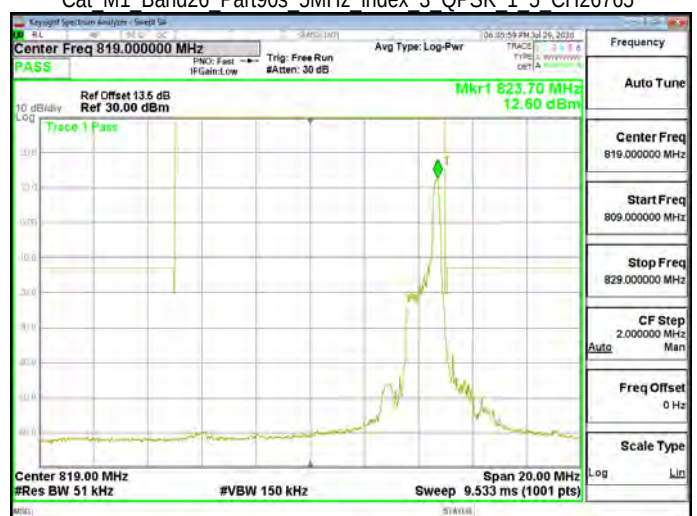
Cat M1 Band26 Part90s 5MHz index 0 QPSK 1 5 CH26740



Cat M1 Band26 Part90s 5MHz index 3 QPSK 1 0 CH26765



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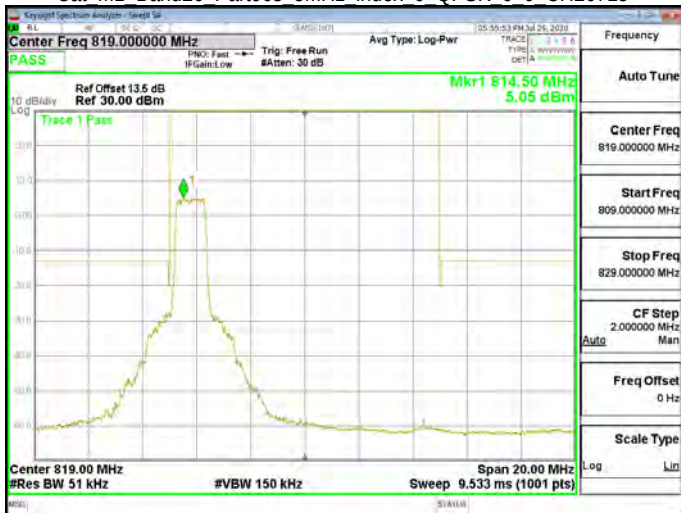


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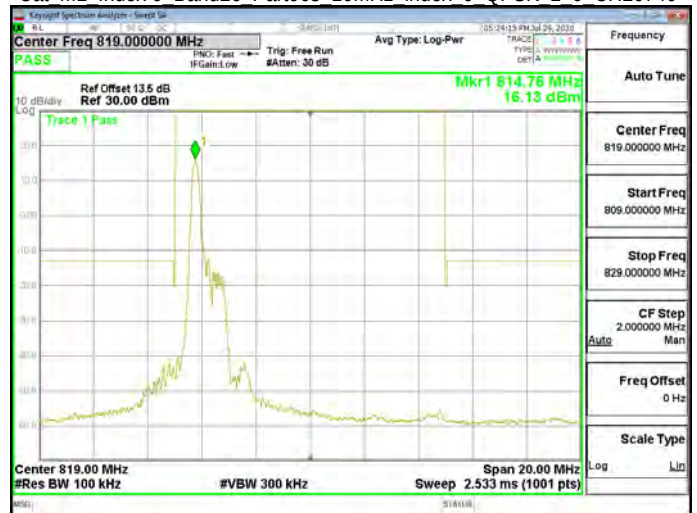
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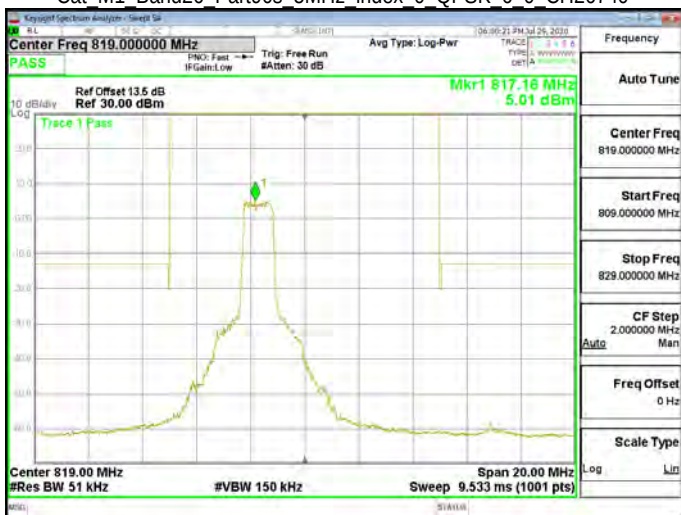
Cat M1 Band26 Part90s 5MHz index 0 QPSK 6 0 CH26715



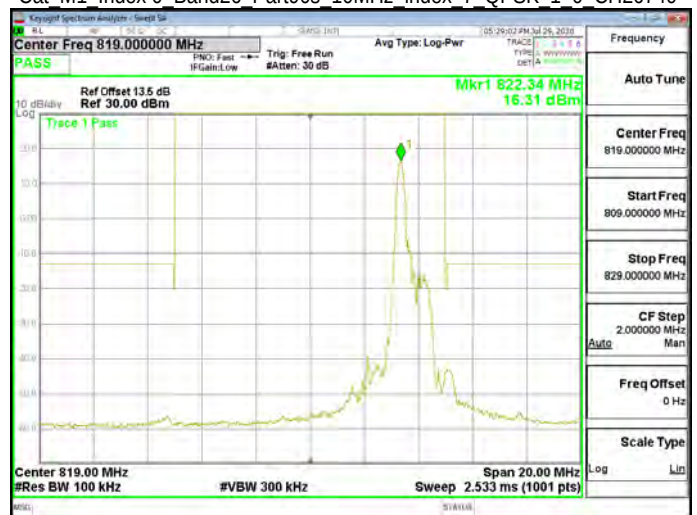
Cat M1 Index 0 Band26 Part90s 10MHz index 0 QPSK 1 0 CH26740



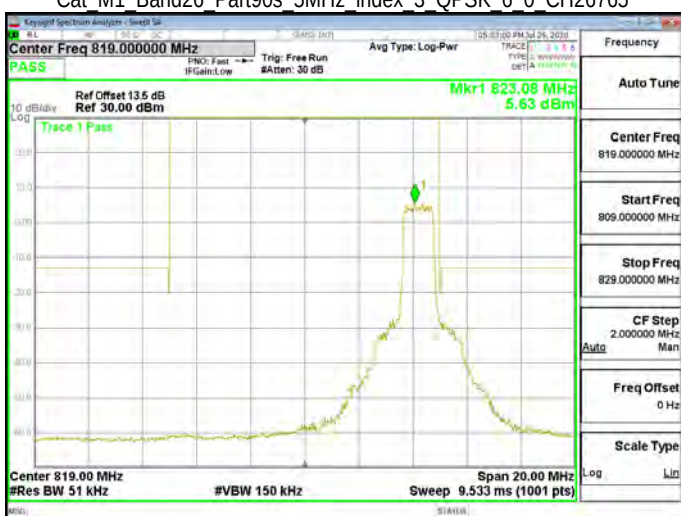
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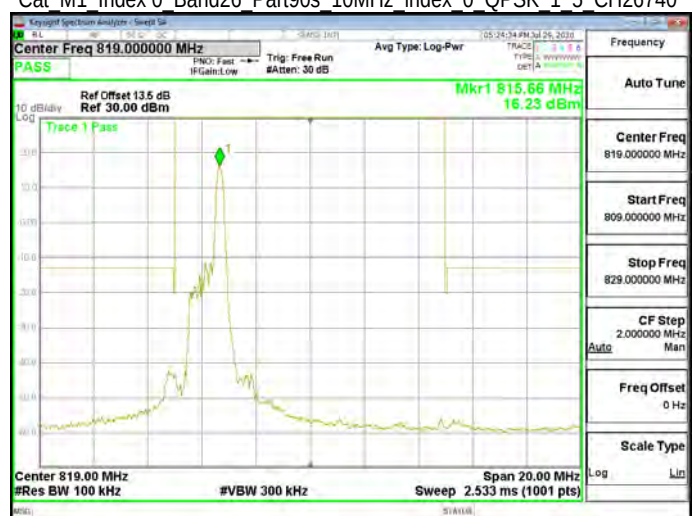
Cat M1 Index 0 Band26 Part90s 10MHz index 7 QPSK 1 0 CH26740



Cat M1 Band26 Part90s 5MHz index 3 QPSK 6 0 CH26765



Cat M1 Index 0 Band26 Part90s 10MHz index 0 QPSK 1 5 CH26740



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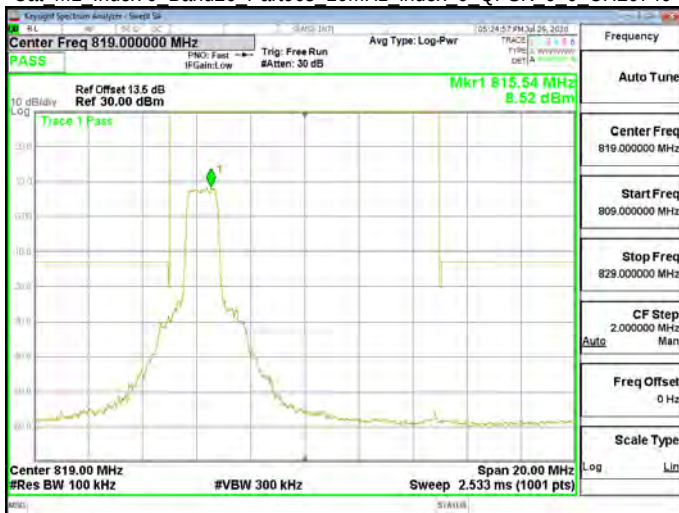
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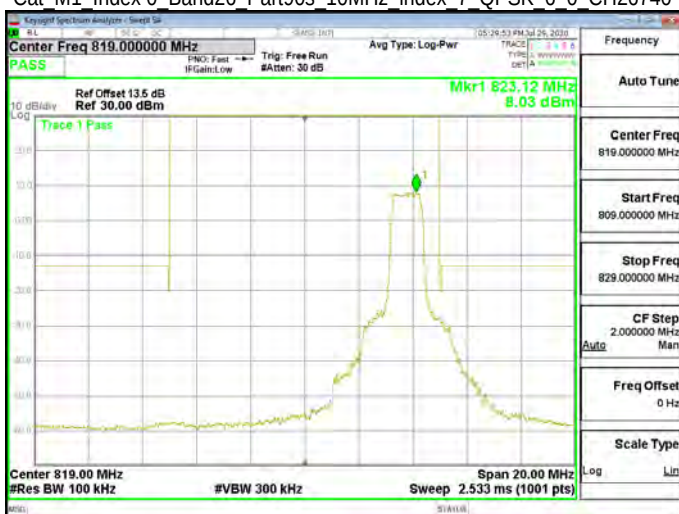
Cat M1 Index 0 Band26 Part90s 10MHz index 7 QPSK 1 5 CH26740



Cat M1 Index 0 Band26 Part90s 10MHz index 0 QPSK 6 0 CH26740



Cat M1 Index 0 Band26 Part90s 10MHz index 7 QPSK 6 0 CH26740



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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h) , §90.543(a)(1)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.5, RSS-139 §6.6

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §27.53(g) for B12

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band 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.

RSS-130 §4.7.1 for B12

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

FCC §27.53(h)(3) for B4

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.

§90.691 Emission mask requirements for EA-based systems for B26

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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

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

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

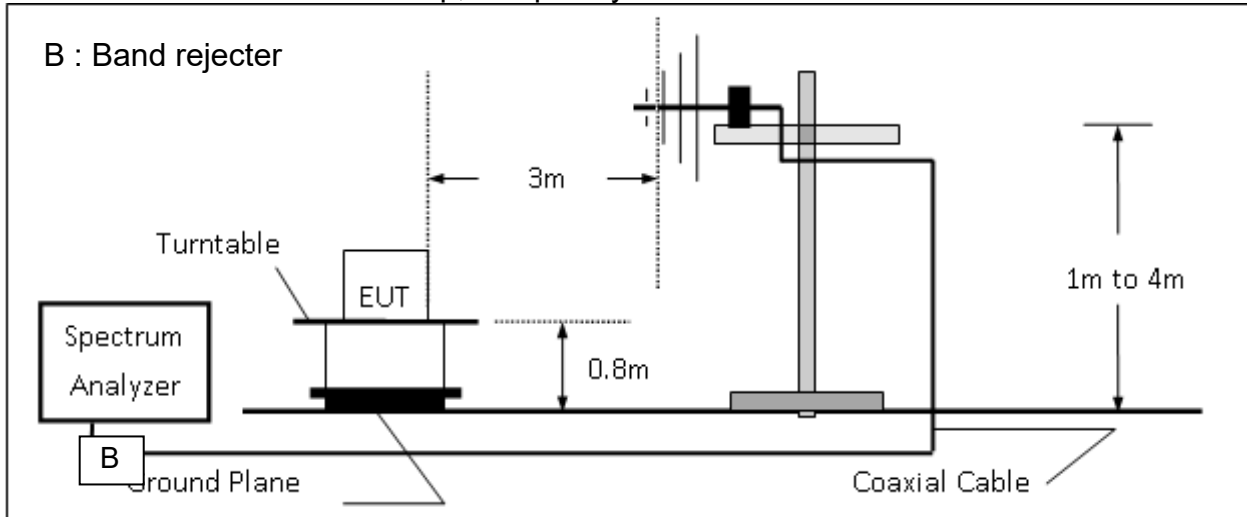
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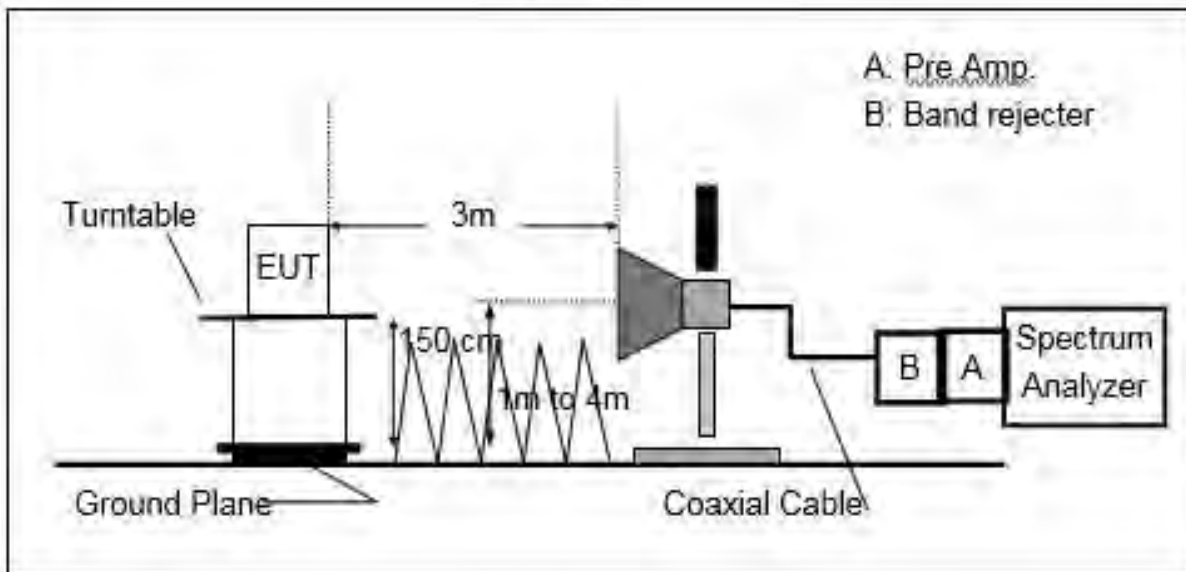
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9.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



Note:

An alternative to the traditional two-stage radiated substitution procedure is applied. The path loss of the test site as a function of frequency is pre-characterized, then this pre-characterized path loss is added to a direct radiated measurement of the equipment under test (EUT) to yield the radiated power of the emission. Measurements are performed on a test site that is validated to the requirements of ANSI C63.10.

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9.3 Measurement Procedure:

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

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

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

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

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

9.4 Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWAZBECK	VULB9168	378	01/03/2020	01/02/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/20/2019	08/19/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Horn Antenna	Schwarzbeck	BBHA9170	185	08/07/2019	08/06/2020
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/20/2019	12/19/2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2020	01/12/2021
3m Site NSA	SGS	966 chamber	N/A	01/02/2020	01/01/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Signal Generator	Agilent	N5183A	MY50140591	12/20/2019	12/19/2020
Pre-Amplifier	HP	8449B	3008A00578	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A07676	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Filter 635-920	Micro-Tronics	WI	4	01/02/2020	01/01/2021
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2020	01/01/2021
Filter 1700-2000	Micro-Tronics	EWT	M3	01/02/2020	01/01/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2020	01/01/2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2020	01/01/2021
Low Loss Cable	Huber Suhner	966_TX	1	01/02/2020	01/01/2021
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021

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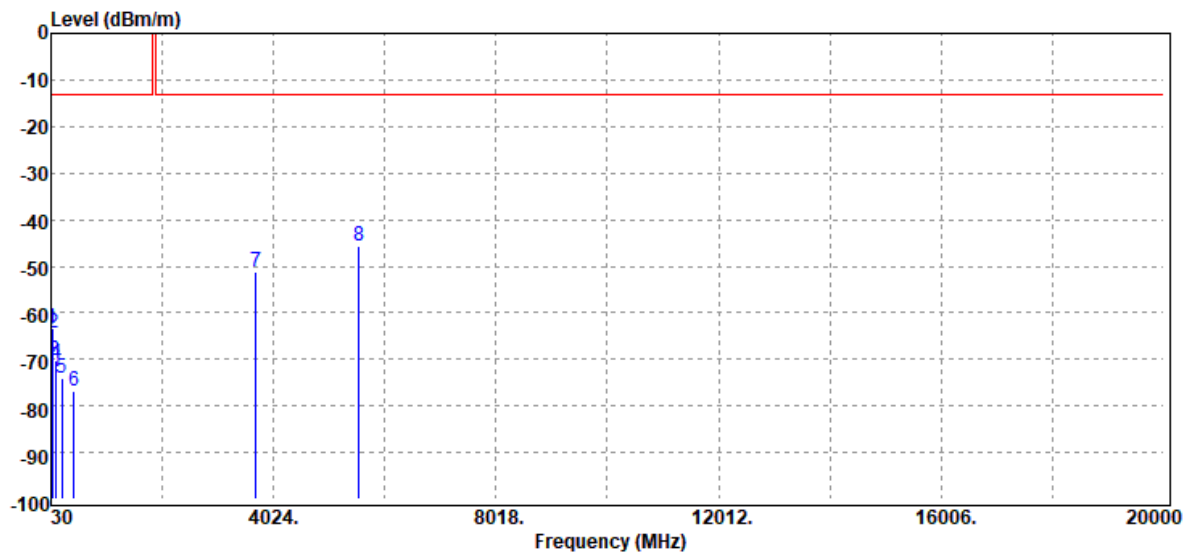
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9.5 Measurement Result:

9.5.1 Radiated Spurious Emission

Radiated Spurious Emission Measurement Result: CAT_M1_Band 2 (The Worst Case)

Report Number	:ER-2020-70059	Test Site	:SAC III Chamber
Operation Mode	:Cat-M1 B2	Test Date	:2020-07-29
Test Mode	:Tx CH Low	Temp./Humi.	:24.7/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1851.5 MHz	Engineer	:Ricky



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
52.31	-63.46	-51.60	-11.22	-0.64	-13.00	-50.46
65.89	-64.48	-56.34	-7.35	-0.79	-13.00	-51.48
105.66	-70.19	-60.96	-8.25	-0.98	-13.00	-57.19
125.06	-70.96	-62.65	-7.29	-1.02	-13.00	-57.96
225.94	-74.02	-71.48	-1.14	-1.40	-13.00	-61.02
447.10	-76.75	-73.74	-1.18	-1.83	-13.00	-63.75
3703.00	-51.27	-57.81	12.40	-5.86	-13.00	-38.27
5554.50	-45.51	-51.39	13.19	-7.31	-13.00	-32.51

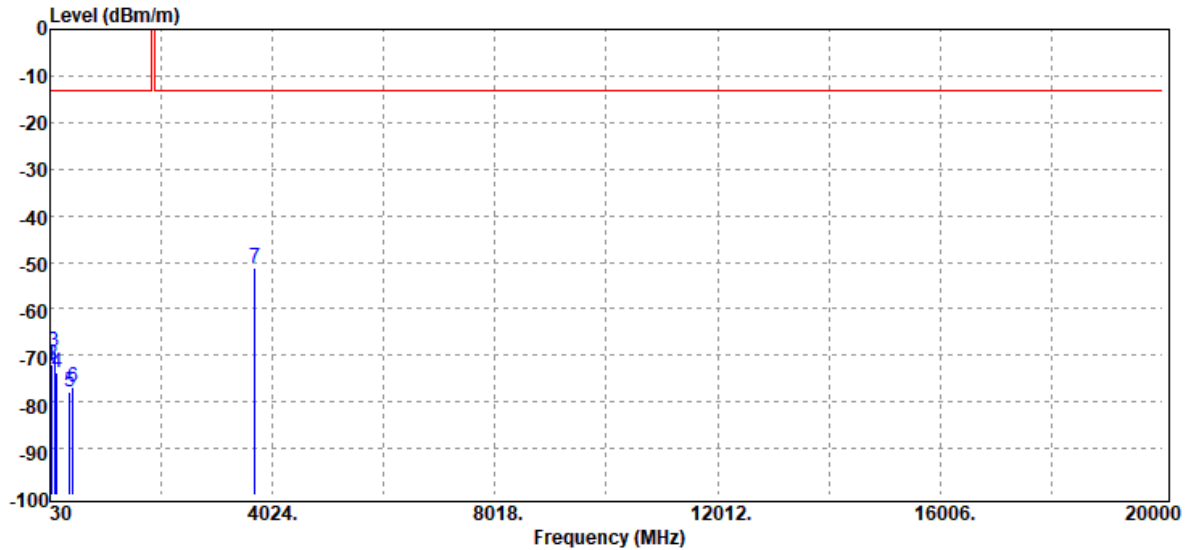
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B2
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :1851.5 MHz

Test Site :SAC III Chamber
Test Date :2020-07-29
Temp./Humi. :24.7/60
Antenna Pol. :HORIZONTAL
Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
52.31	-72.19	-60.33	-11.22	-0.64	-13.00	-59.19
71.71	-72.11	-64.45	-6.84	-0.82	-13.00	-59.11
115.36	-69.17	-60.18	-7.95	-1.04	-13.00	-56.17
146.40	-73.67	-67.27	-5.22	-1.18	-13.00	-60.67
379.20	-77.97	-74.94	-1.23	-1.80	-13.00	-64.97
447.10	-76.83	-73.82	-1.18	-1.83	-13.00	-63.83
3703.00	-51.19	-57.73	12.40	-5.86	-13.00	-38.19

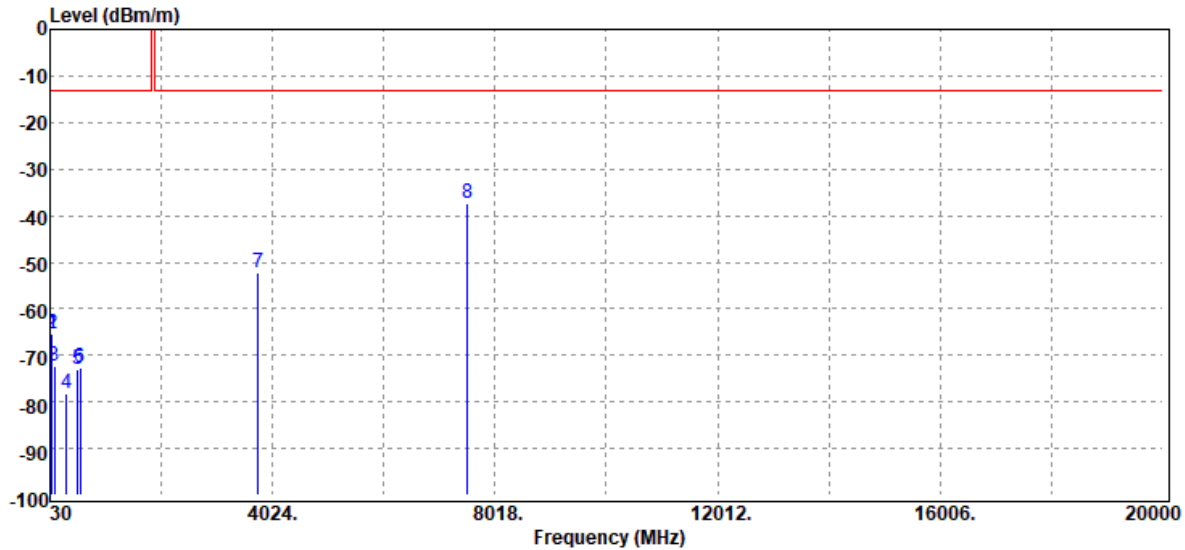
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B2
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :1880 MHz

Test Site :SAC III Chamber
Test Date :2020-07-29
Temp./Humi. :24.7/60
Antenna Pol. :VERTICAL
Engineer :Ricky



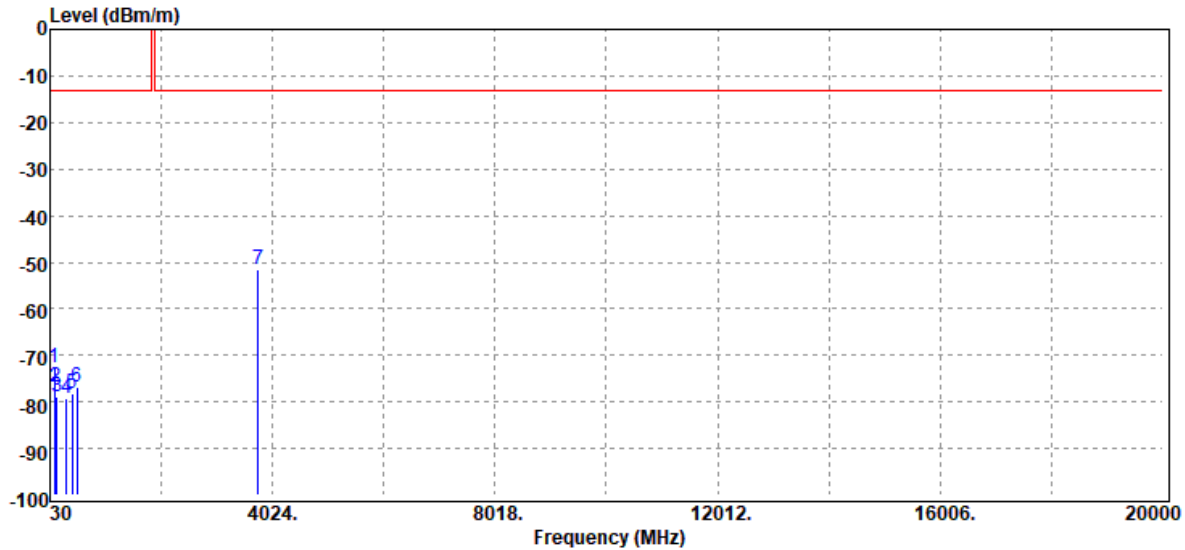
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
59.10	-65.46	-56.05	-8.68	-0.73	-13.00	-52.46
71.71	-65.46	-57.80	-6.84	-0.82	-13.00	-52.46
111.48	-72.17	-63.13	-8.03	-1.01	-13.00	-59.17
330.70	-78.07	-75.19	-1.17	-1.71	-13.00	-65.07
529.55	-72.98	-70.30	-0.84	-1.84	-13.00	-59.98
566.41	-72.81	-69.73	-0.79	-2.29	-13.00	-59.81
3760.00	-52.18	-58.84	12.40	-5.74	-13.00	-39.18
7520.00	-37.39	-40.05	11.04	-8.38	-13.00	-24.39

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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B2
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :1880 MHz

Test Site :SAC III Chamber
Test Date :2020-07-29
Temp./Humi. :24.7/60
Antenna Pol. :HORIZONTAL
Engineer :Ricky


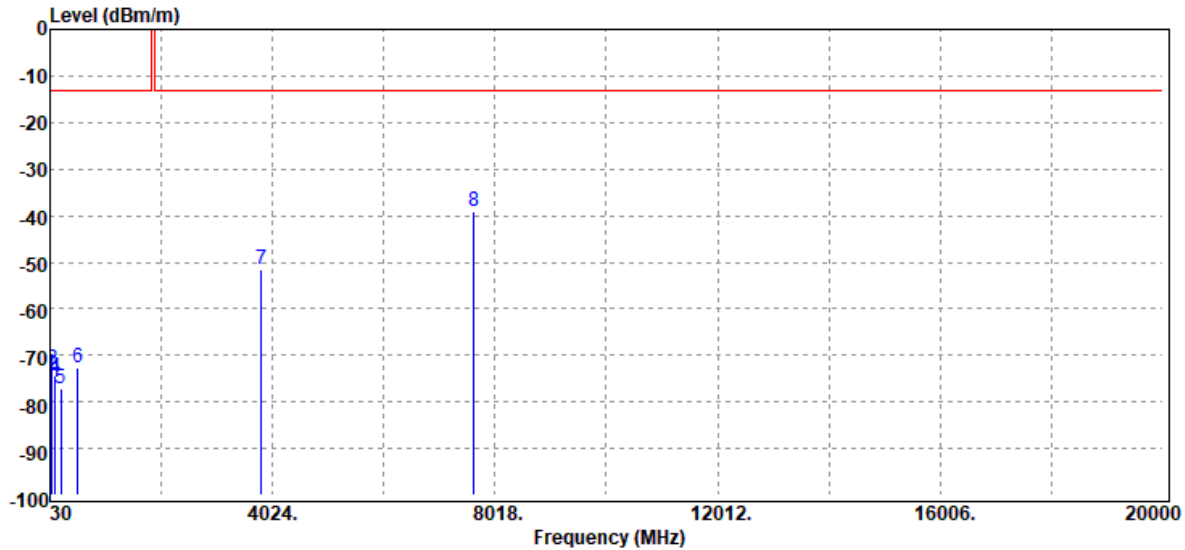
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
114.39	-72.68	-63.65	-8.00	-1.03	-13.00	-59.68
125.06	-76.94	-68.63	-7.29	-1.02	-13.00	-63.94
151.25	-79.00	-73.05	-4.73	-1.22	-13.00	-66.00
330.70	-79.11	-76.23	-1.17	-1.71	-13.00	-66.11
432.55	-78.03	-74.56	-1.36	-2.11	-13.00	-65.03
507.24	-76.94	-73.58	-1.01	-2.35	-13.00	-63.94
3760.00	-51.61	-58.27	12.40	-5.74	-13.00	-38.61

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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B2
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :1908.5 MHz

Test Site :SAC III Chamber
Test Date :2020-07-29
Temp./Humi. :24.7/60
Antenna Pol. :VERTICAL
Engineer :Ricky



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	-73.88	-62.82	-10.39	-0.67	-13.00	-60.88
66.86	-72.97	-65.04	-7.14	-0.79	-13.00	-59.97
103.72	-74.56	-65.31	-8.28	-0.97	-13.00	-61.56
125.06	-74.72	-66.41	-7.29	-1.02	-13.00	-61.72
230.79	-77.23	-74.37	-1.43	-1.43	-13.00	-64.23
531.49	-72.80	-70.08	-0.88	-1.84	-13.00	-59.80
3817.00	-51.69	-58.32	12.40	-5.77	-13.00	-38.69
7634.00	-38.95	-41.76	11.27	-8.46	-13.00	-25.95

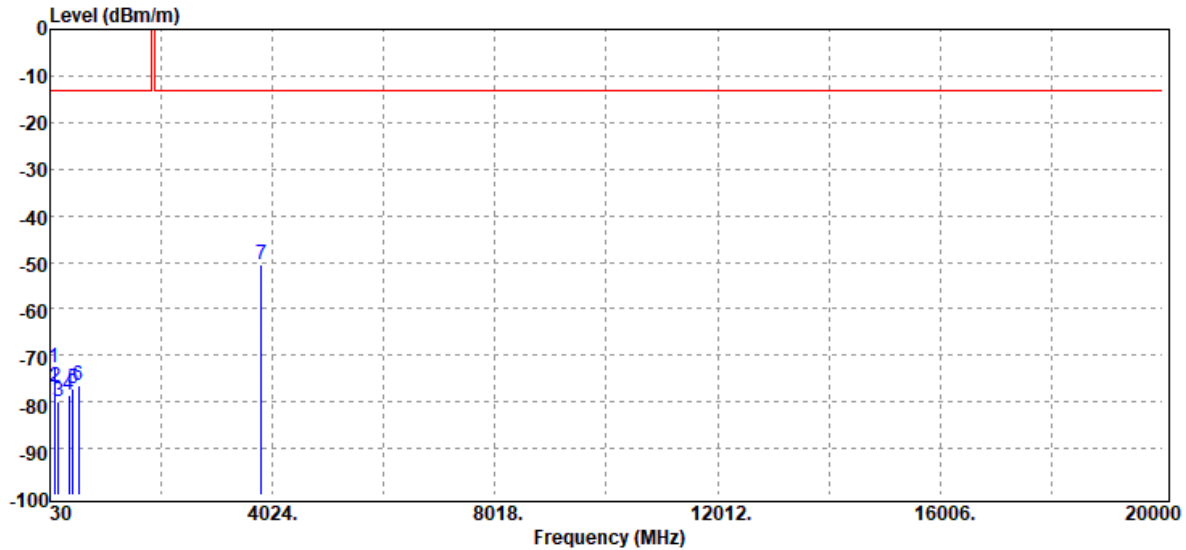
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B2
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :1908.5 MHz

Test Site :SAC III Chamber
Test Date :2020-07-29
Temp./Humi. :24.7/60
Antenna Pol. :HORIZONTAL
Engineer :Ricky



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
115.36	-72.52	-63.53	-7.95	-1.04	-13.00	-59.52
125.06	-76.68	-68.37	-7.29	-1.02	-13.00	-63.68
175.50	-79.94	-76.66	-2.04	-1.24	-13.00	-66.94
364.65	-78.70	-75.39	-1.59	-1.72	-13.00	-65.70
437.40	-77.10	-73.86	-1.26	-1.98	-13.00	-64.10
536.34	-76.37	-73.49	-0.99	-1.89	-13.00	-63.37
3817.00	-50.67	-57.30	12.40	-5.77	-13.00	-37.67

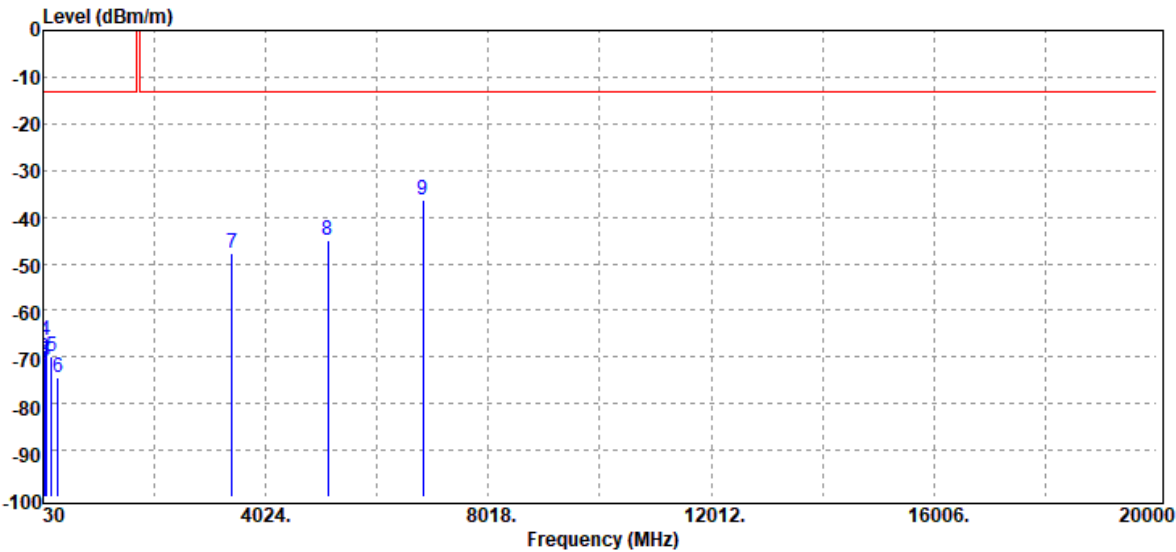
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Radiated Spurious Emission Measurement Result: CAT_M1_Band 4 (The Worst Case)

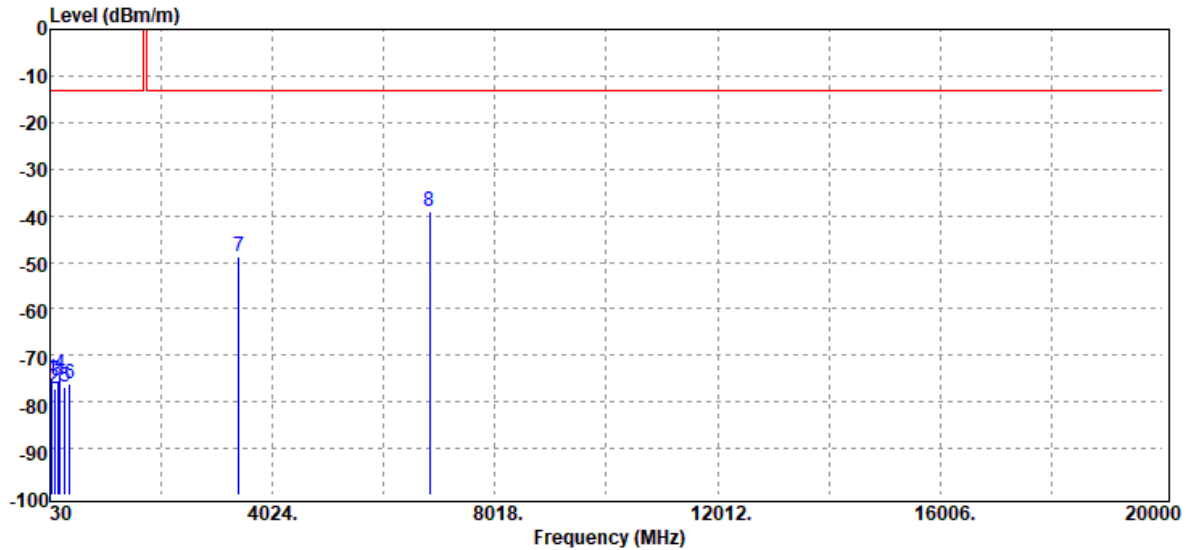
Report Number	:ER-2020-70059	Test Site	:SAC III Chamber
Operation Mode	:Cat-M1 B4	Test Date	:2020-09-08
Test Mode	:Tx CH Low	Temp./Humi.	:25.1/59
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:1712.5 MHz	Engineer	:Ricky



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-72.87	-45.05	-27.28	-0.54	-13.00	-59.87
52.31	-70.07	-58.21	-11.22	-0.64	-13.00	-57.07
74.62	-71.07	-63.63	-6.61	-0.83	-13.00	-58.07
85.29	-66.59	-59.07	-6.64	-0.88	-13.00	-53.59
175.50	-70.06	-66.78	-2.04	-1.24	-13.00	-57.06
290.93	-74.36	-71.27	-1.47	-1.62	-13.00	-61.36
3425.00	-47.58	-55.11	12.70	-5.17	-13.00	-34.58
5137.50	-44.97	-50.48	12.43	-6.92	-13.00	-31.97
6850.00	-36.39	-39.91	11.70	-8.18	-13.00	-23.39

Report Number :ER-2020-70059
Operation Mode :Cat-M1 B4
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :1712.5 MHz

Test Site :SAC III Chamber
Test Date :2020-09-08
Temp./Humi. :25.1/59
Antenna Pol. :HORIZONTAL
Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
70.74	-74.93	-67.18	-6.93	-0.82	-13.00	-61.93
107.60	-77.20	-68.02	-8.19	-0.99	-13.00	-64.20
173.56	-75.53	-72.04	-2.24	-1.25	-13.00	-62.53
216.24	-73.90	-71.55	-0.98	-1.37	-13.00	-60.90
299.66	-76.86	-73.85	-1.39	-1.62	-13.00	-63.86
379.20	-76.07	-73.04	-1.23	-1.80	-13.00	-63.07
3425.00	-48.76	-56.29	12.70	-5.17	-13.00	-35.76
6850.00	-39.00	-42.52	11.70	-8.18	-13.00	-26.00

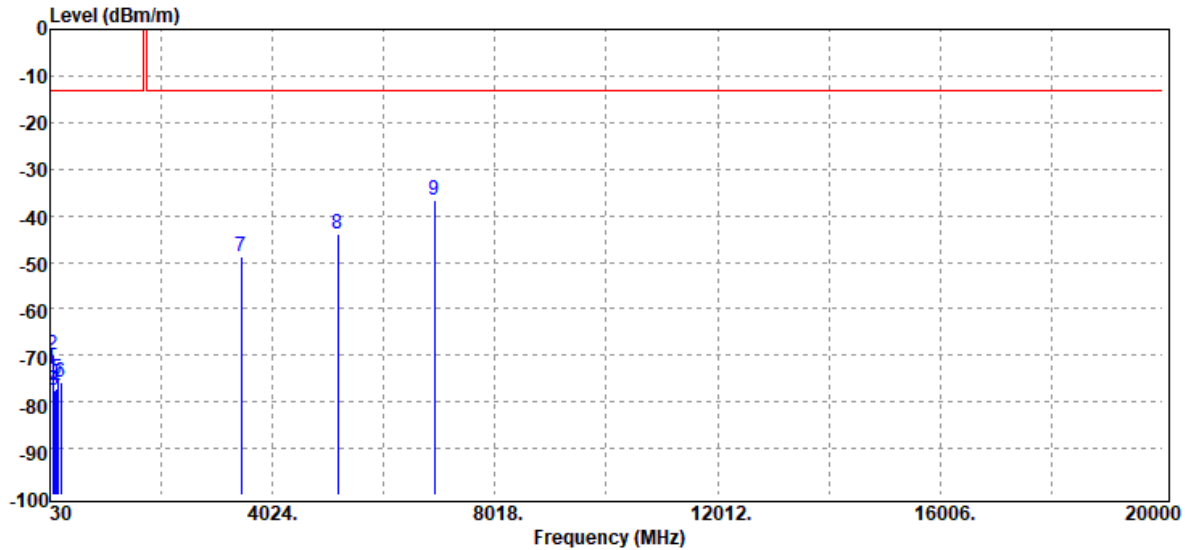
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B4
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :1732.5 MHz

Test Site :SAC III Chamber
Test Date :2020-09-08
Temp./Humi. :25.1/59
Antenna Pol. :VERTICAL
Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
30.00	-73.02	-45.20	-27.28	-0.54	-13.00	-60.02
79.47	-69.75	-62.28	-6.62	-0.85	-13.00	-56.75
107.60	-77.57	-68.39	-8.19	-0.99	-13.00	-64.57
131.85	-77.33	-69.49	-6.84	-1.00	-13.00	-64.33
170.65	-75.22	-71.37	-2.58	-1.27	-13.00	-62.22
226.91	-75.73	-73.12	-1.20	-1.41	-13.00	-62.73
3465.00	-48.63	-55.73	12.67	-5.57	-13.00	-35.63
5197.50	-44.03	-49.66	12.79	-7.16	-13.00	-31.03
6930.00	-36.60	-39.71	11.24	-8.13	-13.00	-23.60

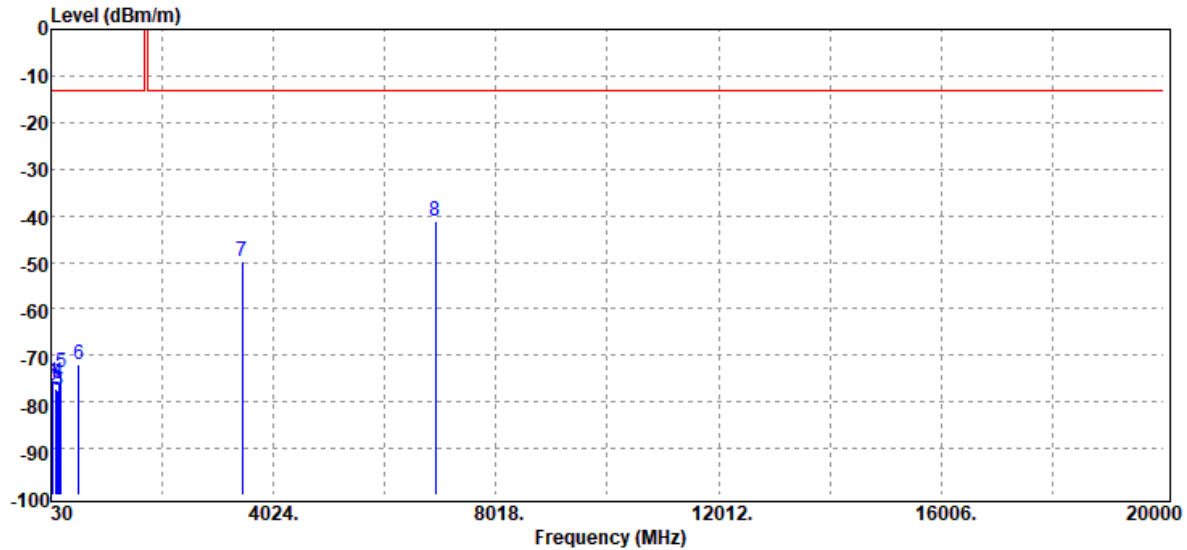
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B4
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :1732.5 MHz

Test Site :SAC III Chamber
Test Date :2020-09-08
Temp./Humi. :25.1/59
Antenna Pol. :HORIZONTAL
Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
71.71	-75.87	-68.21	-6.84	-0.82	-13.00	-62.87
109.54	-77.32	-68.13	-8.19	-1.00	-13.00	-64.32
149.31	-77.61	-71.56	-4.84	-1.21	-13.00	-64.61
172.59	-75.82	-72.23	-2.33	-1.26	-13.00	-62.82
214.30	-73.85	-71.45	-1.03	-1.37	-13.00	-60.85
527.61	-72.06	-69.32	-0.83	-1.91	-13.00	-59.06
3465.00	-49.85	-56.95	12.67	-5.57	-13.00	-36.85
6930.00	-41.32	-44.43	11.24	-8.13	-13.00	-28.32

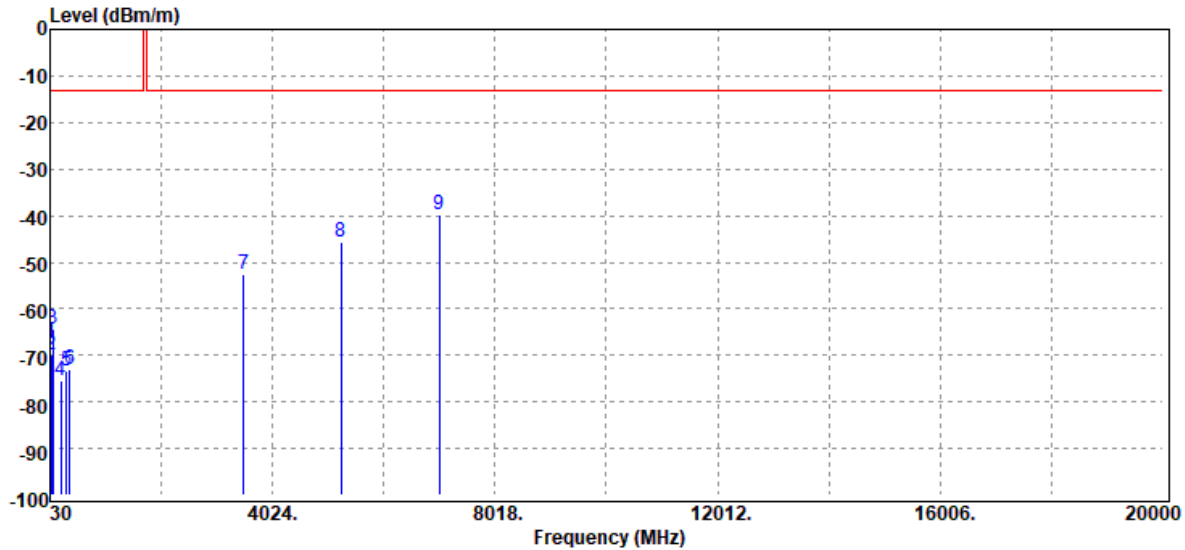
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B4
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :1752.5 MHz

Test Site :SAC III Chamber
Test Date :2020-09-08
Temp./Humi. :25.1/59
Antenna Pol. :VERTICAL
Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
36.79	-67.44	-44.88	-21.97	-0.59	-13.00	-54.44
54.25	-69.96	-58.90	-10.39	-0.67	-13.00	-56.96
80.44	-64.36	-56.99	-6.52	-0.85	-13.00	-51.36
226.91	-75.54	-72.93	-1.20	-1.41	-13.00	-62.54
330.70	-73.53	-70.65	-1.17	-1.71	-13.00	-60.53
378.23	-72.98	-69.94	-1.24	-1.80	-13.00	-59.98
3505.00	-52.74	-59.41	12.58	-5.91	-13.00	-39.74
5257.50	-45.58	-51.54	13.12	-7.16	-13.00	-32.58
7010.00	-39.69	-42.60	10.98	-8.07	-13.00	-26.69

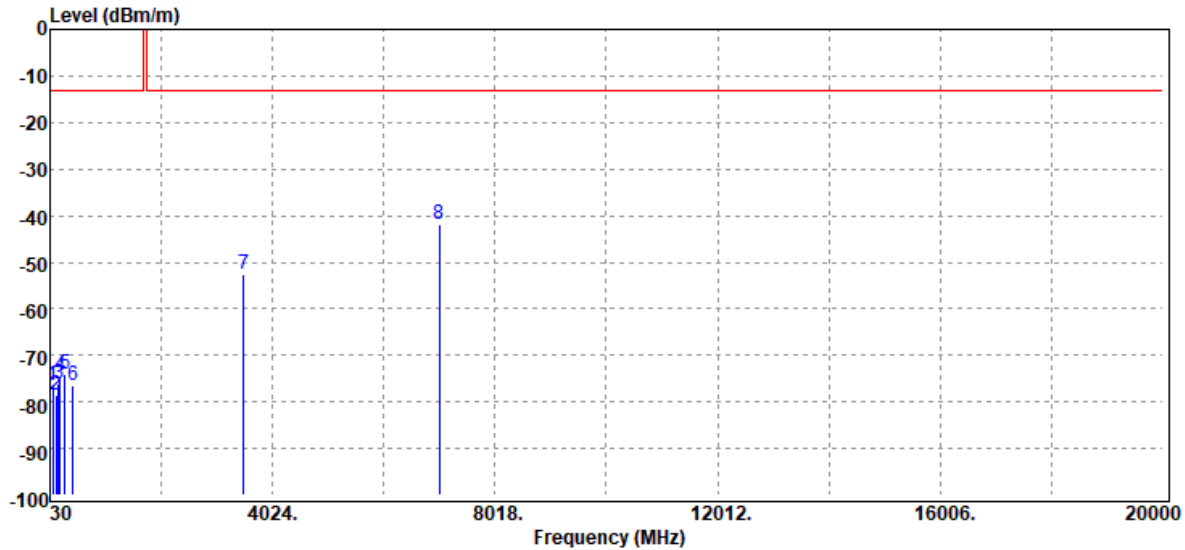
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B4
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :1752.5 MHz

Test Site :SAC III Chamber
Test Date :2020-09-08
Temp./Humi. :25.1/59
Antenna Pol. :HORIZONTAL
Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
73.65	-76.41	-68.87	-6.71	-0.83	-13.00	-63.41
136.70	-78.39	-71.03	-6.31	-1.05	-13.00	-65.39
177.44	-76.10	-72.96	-1.90	-1.24	-13.00	-63.10
216.24	-74.57	-72.22	-0.98	-1.37	-13.00	-61.57
303.54	-74.09	-71.13	-1.35	-1.61	-13.00	-61.09
439.34	-76.30	-73.18	-1.18	-1.94	-13.00	-63.30
3505.00	-52.71	-59.38	12.58	-5.91	-13.00	-39.71
7010.00	-41.75	-44.66	10.98	-8.07	-13.00	-28.75

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Radiated Spurious Emission Measurement Result: CAT_M1_Band 12 (The Worst Case)

Report Number :ER-2020-70059

Test Site :SAC III Chamber

Operation Mode :Cat-M1 B12

Test Date :2020-09-08

Test Mode :Tx CH Low

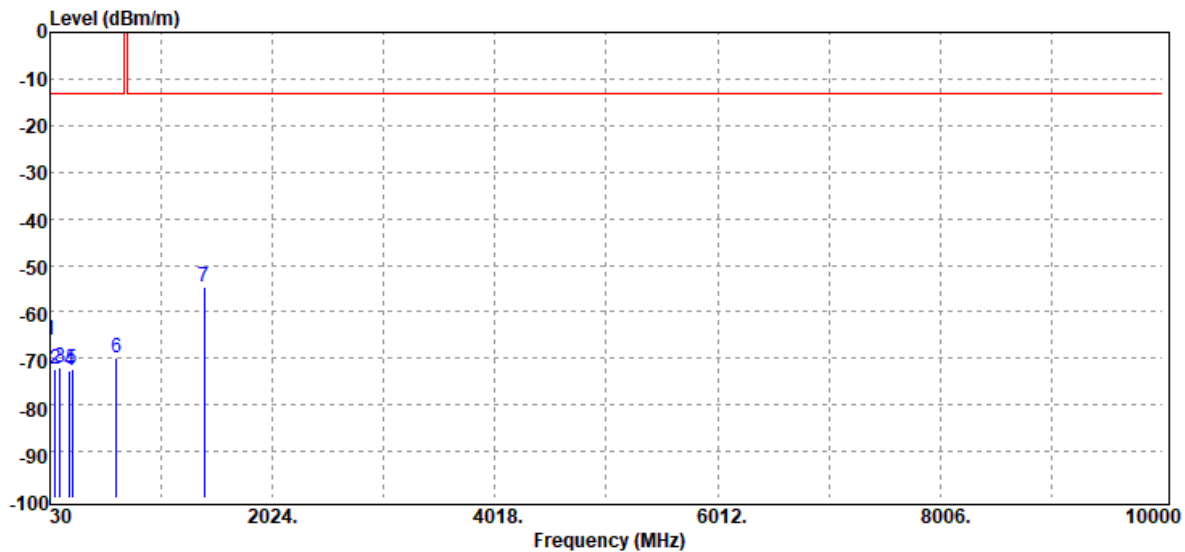
Temp./Humi. :25.1/59

EUT Pol :H Plane

Antenna Pol. :VERTICAL

Test Frequency :704 MHz

Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
30.00	-66.17	-38.35	-27.28	-0.54	-13.00	-53.17
73.65	-72.18	-64.64	-6.71	-0.83	-13.00	-59.18
119.24	-71.81	-63.05	-7.70	-1.06	-13.00	-58.81
205.57	-72.67	-69.74	-1.57	-1.36	-13.00	-59.67
225.94	-72.39	-69.85	-1.14	-1.40	-13.00	-59.39
628.49	-69.98	-67.17	-0.53	-2.28	-13.00	-56.98
1408.00	-54.51	-58.88	7.95	-3.58	-13.00	-41.51

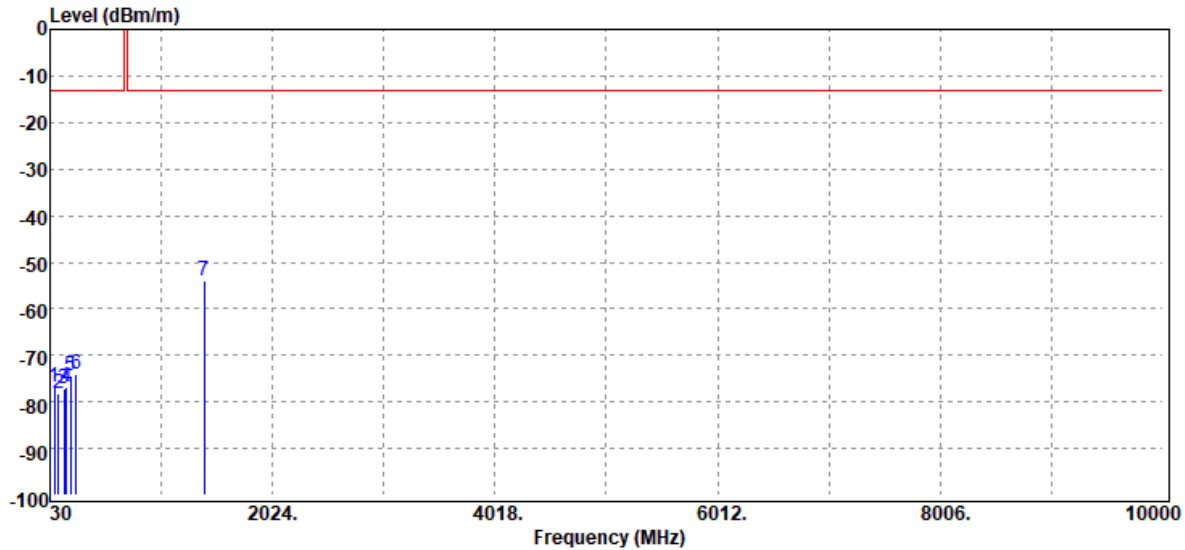
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B12
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :704 MHz

Test Site :SAC III Chamber
Test Date :2020-09-08
Temp./Humi. :25.1/59
Antenna Pol. :HORIZONTAL
Engineer :Ricky



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-76.66	-69.00	-6.84	-0.82	-13.00	-63.66
107.60	-78.10	-68.92	-8.19	-0.99	-13.00	-65.10
159.01	-77.31	-72.20	-3.90	-1.21	-13.00	-64.31
175.50	-76.69	-73.41	-2.04	-1.24	-13.00	-63.69
217.21	-74.52	-72.17	-0.98	-1.37	-13.00	-61.52
264.74	-74.09	-69.88	-2.68	-1.53	-13.00	-61.09
1408.00	-54.09	-58.46	7.95	-3.58	-13.00	-41.09

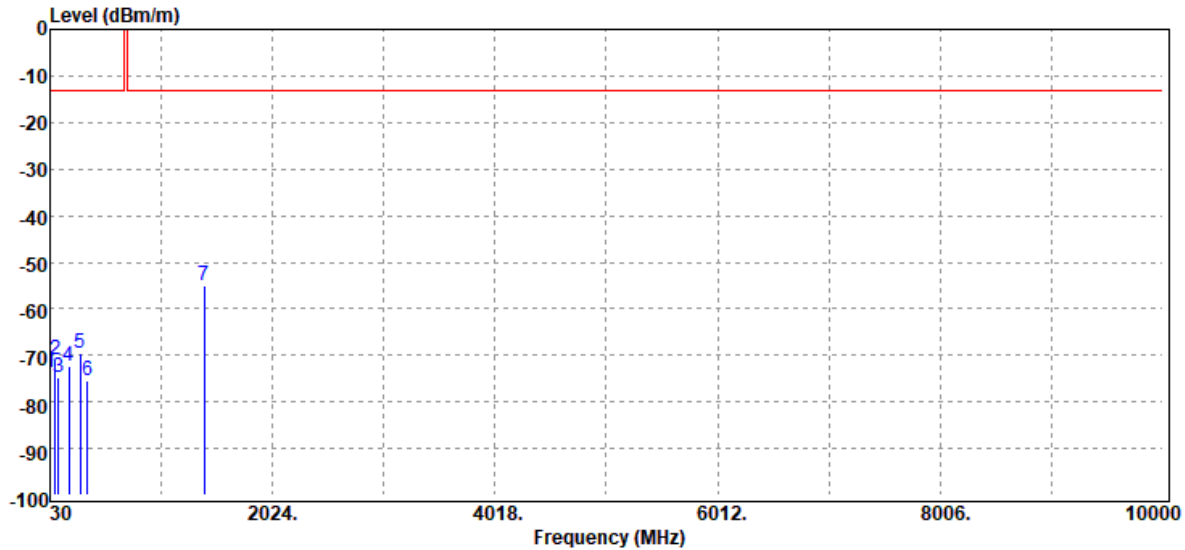
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Report Number :ER-2020-70059
 Operation Mode :Cat-M1 B12
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :707.5 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-08
 Temp./Humi. :25.1/59
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
34.85	-73.63	-49.57	-23.49	-0.57	-13.00	-60.63
75.59	-70.90	-63.49	-6.58	-0.83	-13.00	-57.90
105.66	-74.68	-65.45	-8.25	-0.98	-13.00	-61.68
202.66	-72.47	-69.52	-1.60	-1.35	-13.00	-59.47
299.66	-69.51	-66.50	-1.39	-1.62	-13.00	-56.51
362.71	-75.31	-71.96	-1.64	-1.71	-13.00	-62.31
1415.00	-55.01	-59.41	7.99	-3.59	-13.00	-42.01

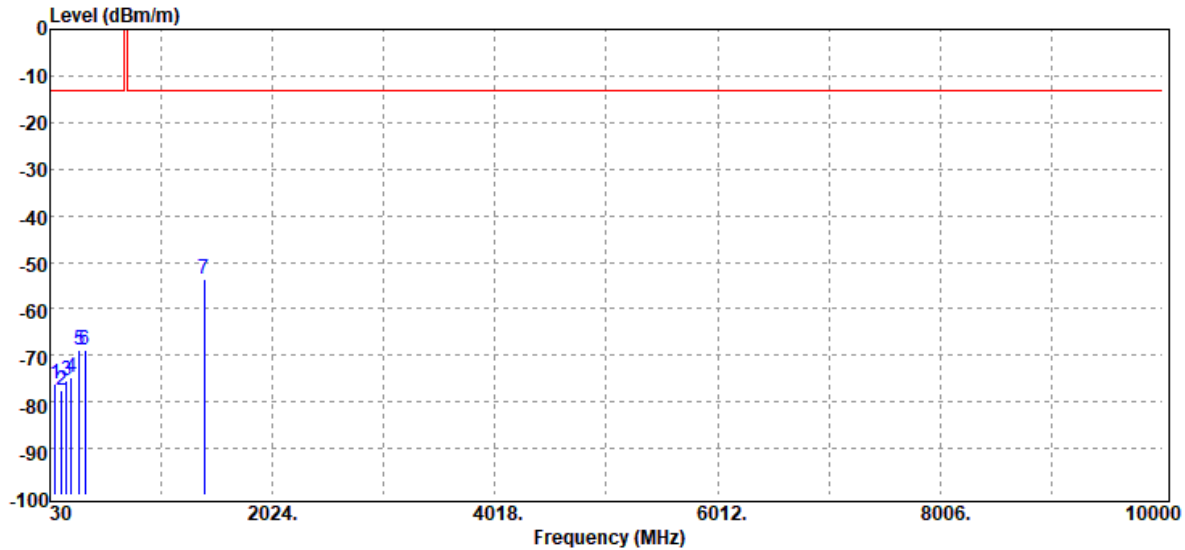
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Report Number :ER-2020-70059
 Operation Mode :Cat-M1 B12
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :707.5 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-08
 Temp./Humi. :25.1/59
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
73.65	-76.17	-68.63	-6.71	-0.83	-13.00	-63.17
136.70	-77.44	-70.08	-6.31	-1.05	-13.00	-64.44
175.50	-75.42	-72.14	-2.04	-1.24	-13.00	-62.42
219.15	-74.60	-72.26	-0.98	-1.36	-13.00	-61.60
289.96	-69.03	-65.93	-1.48	-1.62	-13.00	-56.03
343.31	-68.71	-65.51	-1.35	-1.85	-13.00	-55.71
1415.00	-53.65	-58.05	7.99	-3.59	-13.00	-40.65

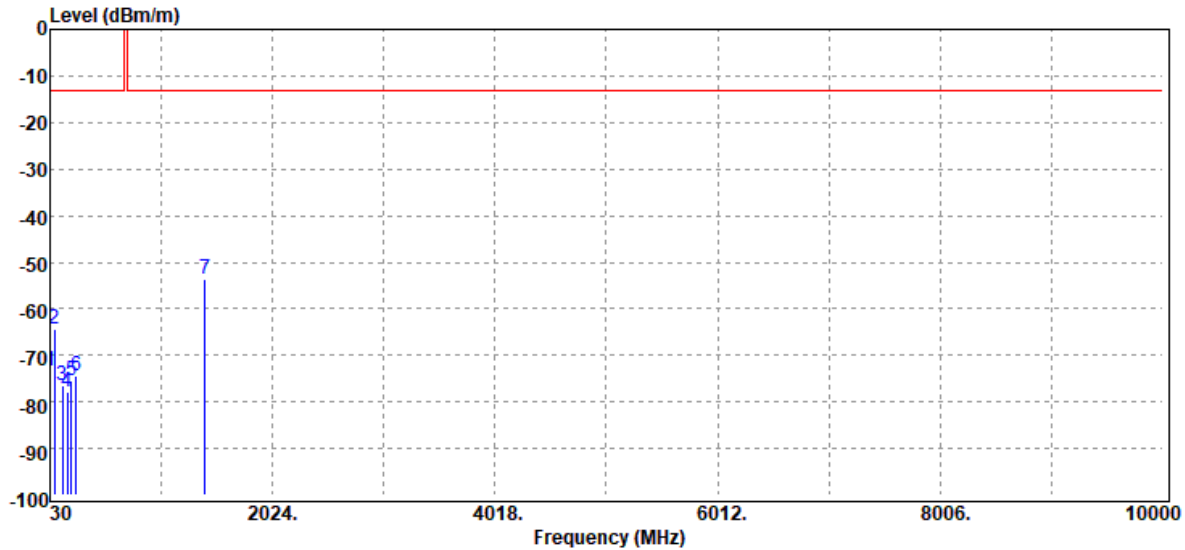
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B12
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :711 MHz

Test Site :SAC III Chamber
Test Date :2020-09-08
Temp./Humi. :25.1/59
Antenna Pol. :VERTICAL
Engineer :Ricky



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-73.24	-45.42	-27.28	-0.54	-13.00	-60.24
66.86	-64.35	-56.42	-7.14	-0.79	-13.00	-51.35
139.61	-76.47	-69.41	-5.97	-1.09	-13.00	-63.47
185.20	-77.75	-74.95	-1.55	-1.25	-13.00	-64.75
221.09	-75.50	-73.13	-1.00	-1.37	-13.00	-62.50
264.74	-74.56	-70.35	-2.68	-1.53	-13.00	-61.56
1422.00	-53.71	-58.15	8.03	-3.59	-13.00	-40.71

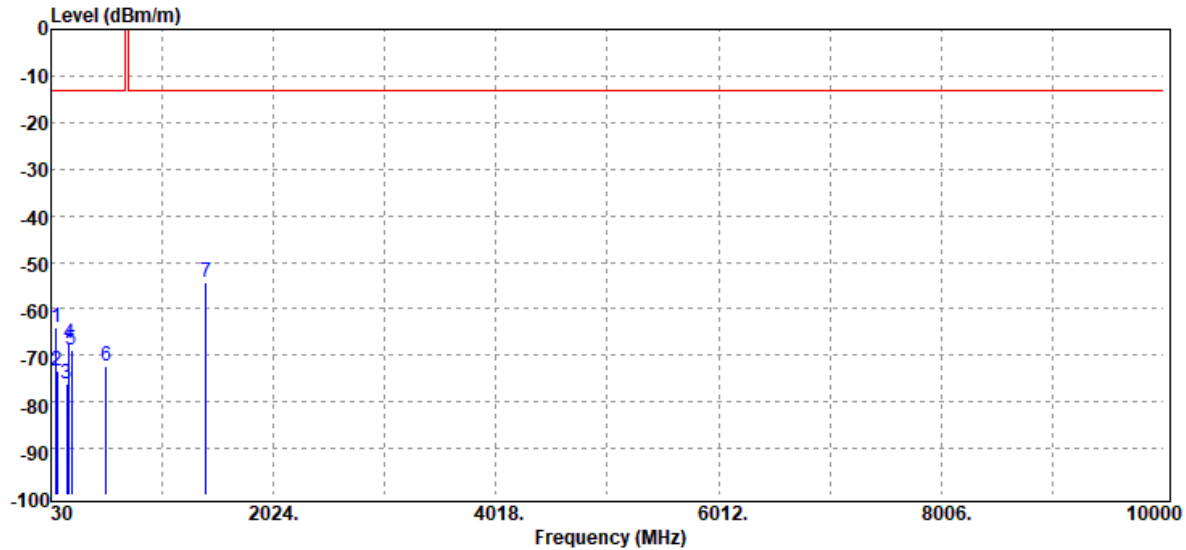
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Report Number :ER-2020-70059
 Operation Mode :Cat-M1 B12
 Test Mode :Tx CH High
 EUT Pol :H Plane
 Test Frequency :711 MHz

Test Site :SAC III Chamber
 Test Date :2020-09-08
 Temp./Humi. :25.1/59
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
73.65	-64.13	-56.59	-6.71	-0.83	-13.00	-51.13
85.29	-73.52	-66.00	-6.64	-0.88	-13.00	-60.52
172.59	-76.16	-72.57	-2.33	-1.26	-13.00	-63.16
190.05	-67.53	-64.81	-1.45	-1.27	-13.00	-54.53
211.39	-68.88	-66.24	-1.27	-1.37	-13.00	-55.88
527.61	-72.30	-69.56	-0.83	-1.91	-13.00	-59.30
1422.00	-54.24	-58.68	8.03	-3.59	-13.00	-41.24

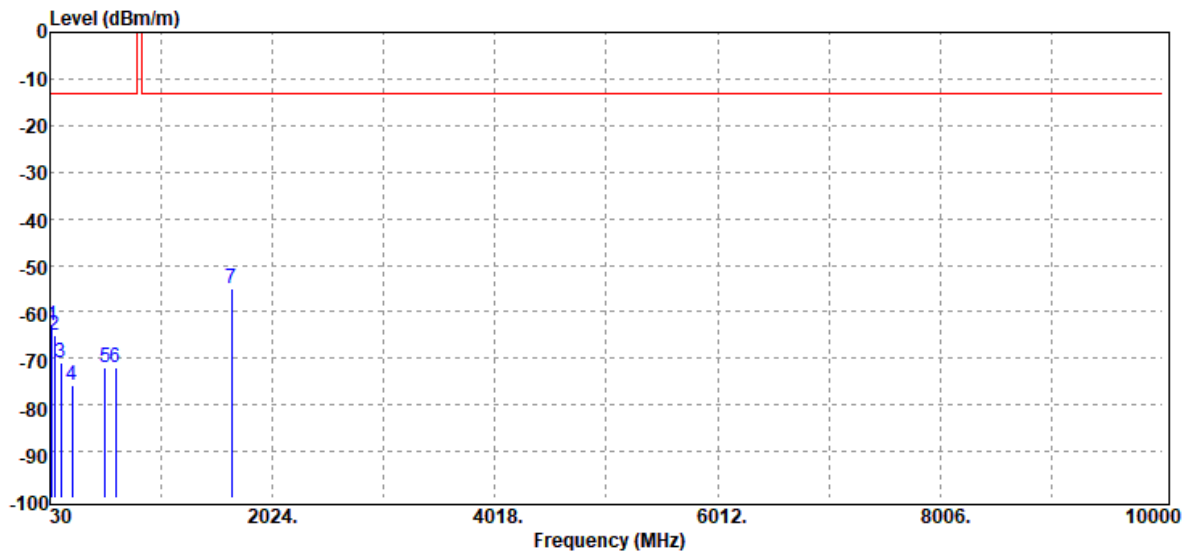
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Radiated Spurious Emission Measurement Result: CAT_M1_Band 26 (The Worst Case)

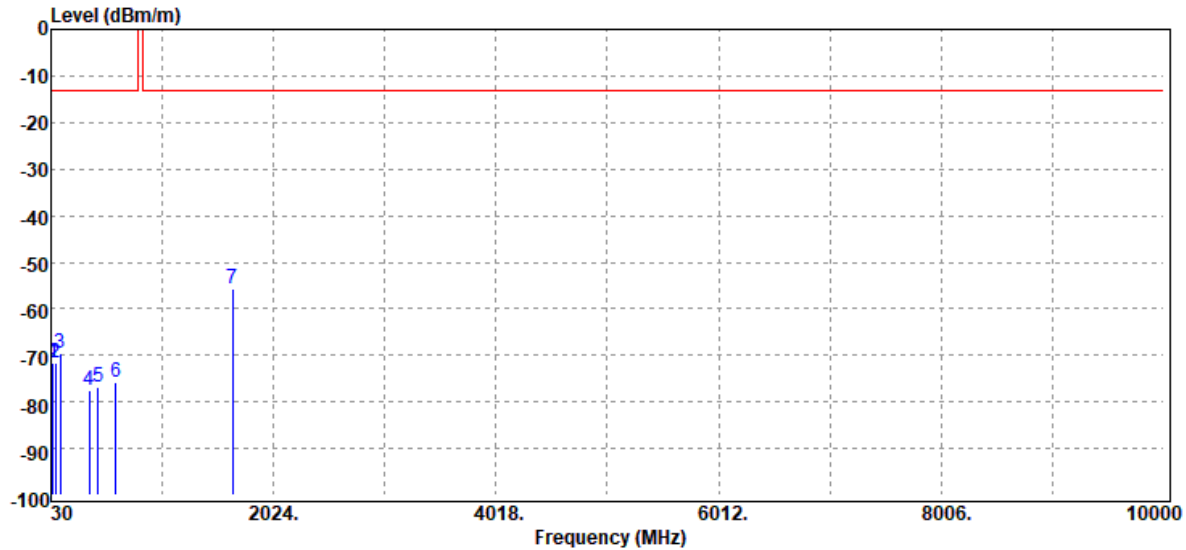
Report Number	:ER-2020-70059	Test Site	:SAC III Chamber
Operation Mode	:Cat-M1 B26	Test Date	:2020-07-29
Test Mode	:Tx CH Low	Temp./Humi.	:24.7/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:829 MHz	Engineer	:Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
		dBm	dBi/dBd	dB		
51.34	-63.09	-50.72	-11.75	-0.62	-13.00	-50.09
66.86	-64.96	-57.03	-7.14	-0.79	-13.00	-51.96
124.09	-70.99	-62.52	-7.44	-1.03	-13.00	-57.99
225.94	-75.81	-73.27	-1.14	-1.40	-13.00	-62.81
522.76	-72.06	-69.13	-0.86	-2.07	-13.00	-59.06
614.91	-71.96	-69.30	-0.65	-2.01	-13.00	-58.96
1658.00	-55.12	-61.16	9.92	-3.88	-13.00	-42.12

Report Number :ER-2020-70059
Operation Mode :Cat-M1 B26
Test Mode :Tx CH Low
EUT Pol :H Plane
Test Frequency :829 MHz

Test Site :SAC III Chamber
Test Date :2020-07-29
Temp./Humi. :24.7/60
Antenna Pol. :HORIZONTAL
Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
51.34	-71.68	-59.31	-11.75	-0.62	-13.00	-58.68
71.71	-71.73	-64.07	-6.84	-0.82	-13.00	-58.73
115.36	-69.46	-60.47	-7.95	-1.04	-13.00	-56.46
374.35	-77.42	-74.39	-1.26	-1.77	-13.00	-64.42
453.89	-76.77	-73.87	-1.07	-1.83	-13.00	-63.77
607.15	-75.64	-72.93	-0.66	-2.05	-13.00	-62.64
1658.00	-55.83	-61.87	9.92	-3.88	-13.00	-42.83

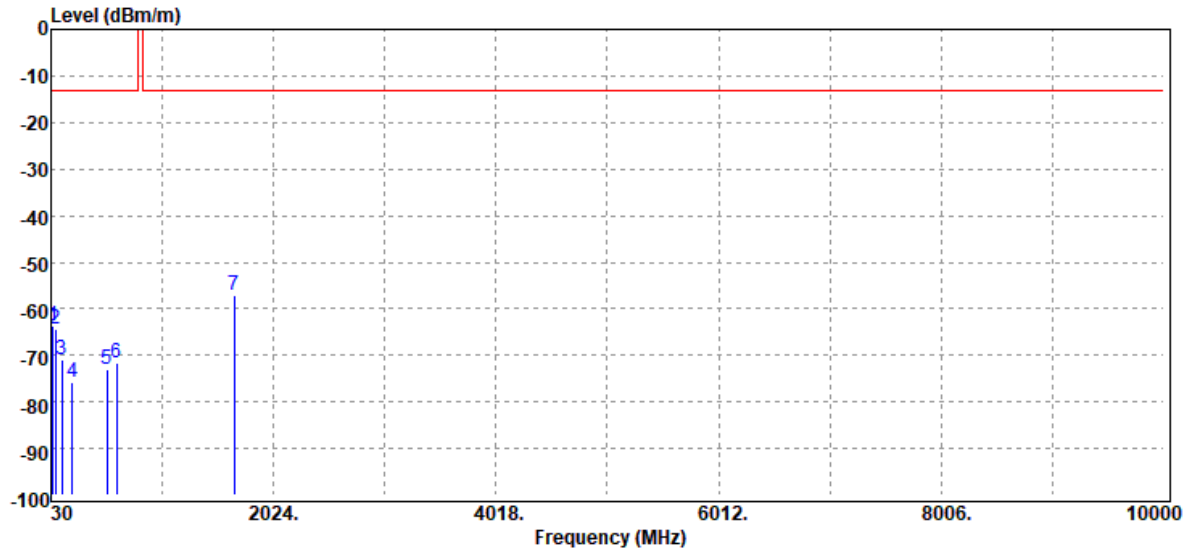
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Report Number :ER-2020-70059
 Operation Mode :Cat-M1 B26
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :836.5 MHz

Test Site :SAC III Chamber
 Test Date :2020-07-29
 Temp./Humi. :24.7/60
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
51.34	-63.56	-51.19	-11.75	-0.62	-13.00	-50.56
66.86	-64.38	-56.45	-7.14	-0.79	-13.00	-51.38
124.09	-70.93	-62.46	-7.44	-1.03	-13.00	-57.93
224.00	-75.76	-73.31	-1.06	-1.39	-13.00	-62.76
534.40	-72.88	-70.06	-0.95	-1.87	-13.00	-59.88
620.73	-71.76	-69.04	-0.65	-2.07	-13.00	-58.76
1673.00	-57.10	-63.15	9.95	-3.90	-13.00	-44.10

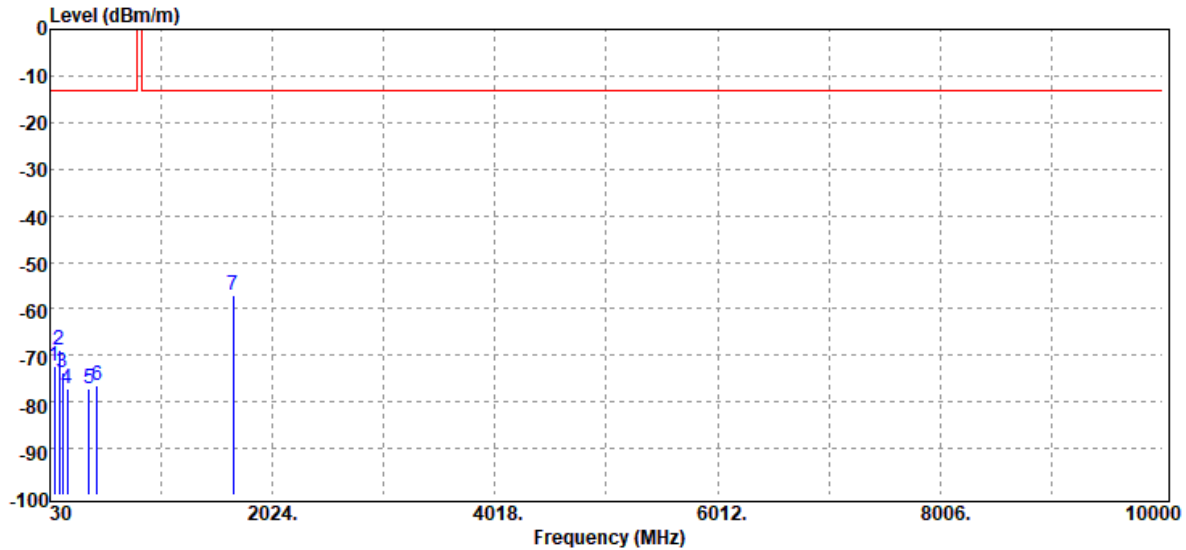
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B26
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :836.5 MHz

Test Site :SAC III Chamber
Test Date :2020-07-29
Temp./Humi. :24.7/60
Antenna Pol. :HORIZONTAL
Engineer :Ricky



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-72.21	-64.55	-6.84	-0.82	-13.00	-59.21
115.36	-69.03	-60.04	-7.95	-1.04	-13.00	-56.03
141.55	-73.59	-66.77	-5.71	-1.11	-13.00	-60.59
182.29	-77.06	-74.22	-1.61	-1.23	-13.00	-64.06
381.14	-77.29	-74.25	-1.23	-1.81	-13.00	-64.29
451.95	-76.52	-73.65	-1.06	-1.81	-13.00	-63.52
1673.00	-57.15	-63.20	9.95	-3.90	-13.00	-44.15

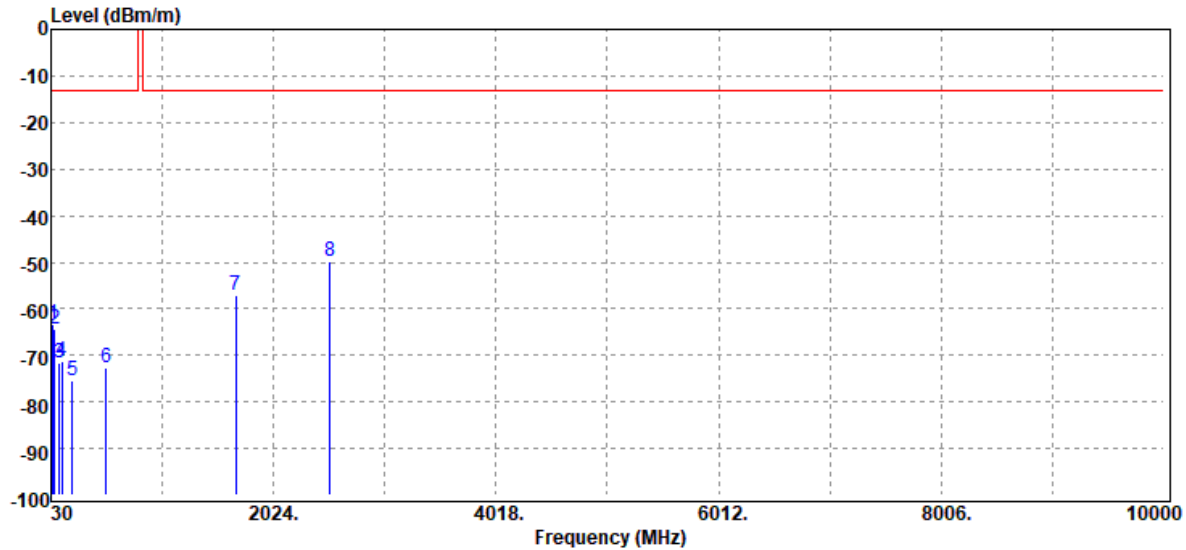
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B26
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :844 MHz

Test Site :SAC III Chamber
Test Date :2020-07-29
Temp./Humi. :24.7/60
Antenna Pol. :VERTICAL
Engineer :Ricky



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-63.38	-51.01	-11.75	-0.62	-13.00	-50.38
64.92	-64.47	-56.20	-7.49	-0.78	-13.00	-51.47
107.60	-71.70	-62.52	-8.19	-0.99	-13.00	-58.70
125.06	-71.31	-63.00	-7.29	-1.02	-13.00	-58.31
224.00	-75.58	-73.13	-1.06	-1.39	-13.00	-62.58
527.61	-72.56	-69.82	-0.83	-1.91	-13.00	-59.56
1688.00	-56.97	-63.03	9.98	-3.92	-13.00	-43.97
2532.00	-49.88	-55.87	10.83	-4.84	-13.00	-36.88

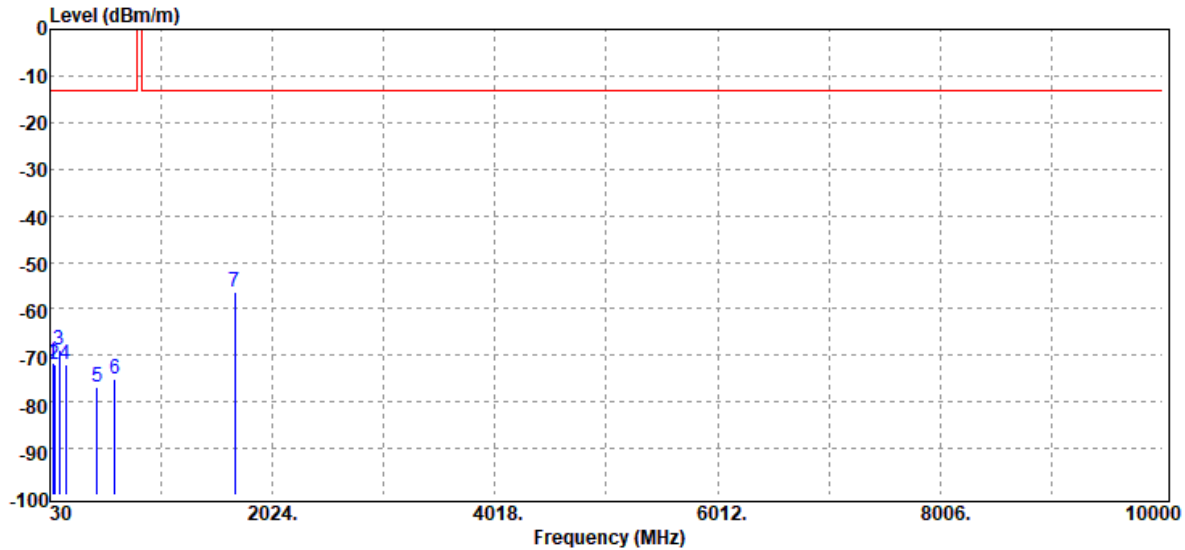
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B26
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :844 MHz

Test Site :SAC III Chamber
Test Date :2020-07-29
Temp./Humi. :24.7/60
Antenna Pol. :HORIZONTAL
Engineer :Ricky



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
53.28	-71.78	-60.25	-10.88	-0.65	-13.00	-58.78
71.71	-71.99	-64.33	-6.84	-0.82	-13.00	-58.99
115.36	-68.88	-59.89	-7.95	-1.04	-13.00	-55.88
167.74	-71.86	-67.74	-2.86	-1.26	-13.00	-58.86
450.01	-76.99	-74.13	-1.06	-1.80	-13.00	-63.99
612.00	-75.00	-72.39	-0.63	-1.98	-13.00	-62.00
1688.00	-56.54	-62.60	9.98	-3.92	-13.00	-43.54

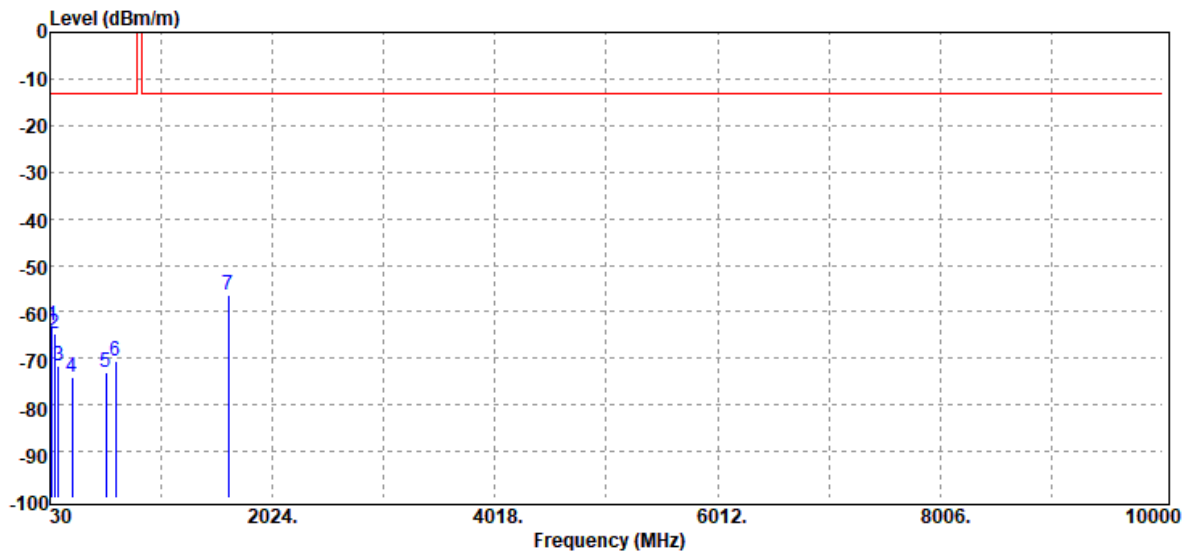
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Radiated Spurious Emission Measurement Result: CAT_M1_Band 26 (Part 90) (The Worst Case)

Report Number	:ER-2020-70059	Test Site	:SAC III Chamber
Operation Mode	:Cat-M1 B26 part90	Test Date	:2020-07-29
Test Mode	:Tx CH Low	Temp./Humi.	:24.7/60
EUT Pol	:H Plane	Antenna Pol.	:VERTICAL
Test Frequency	:814.7 MHz	Engineer	:Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
51.34	-63.12	-50.75	-11.75	-0.62	-13.00	-50.12
66.86	-64.77	-56.84	-7.14	-0.79	-13.00	-51.77
107.60	-71.65	-62.47	-8.19	-0.99	-13.00	-58.65
231.76	-73.94	-71.03	-1.47	-1.44	-13.00	-60.94
534.40	-73.03	-70.21	-0.95	-1.87	-13.00	-60.03
619.76	-70.62	-67.89	-0.68	-2.05	-13.00	-57.62
1629.40	-56.38	-62.32	9.78	-3.84	-13.00	-43.38

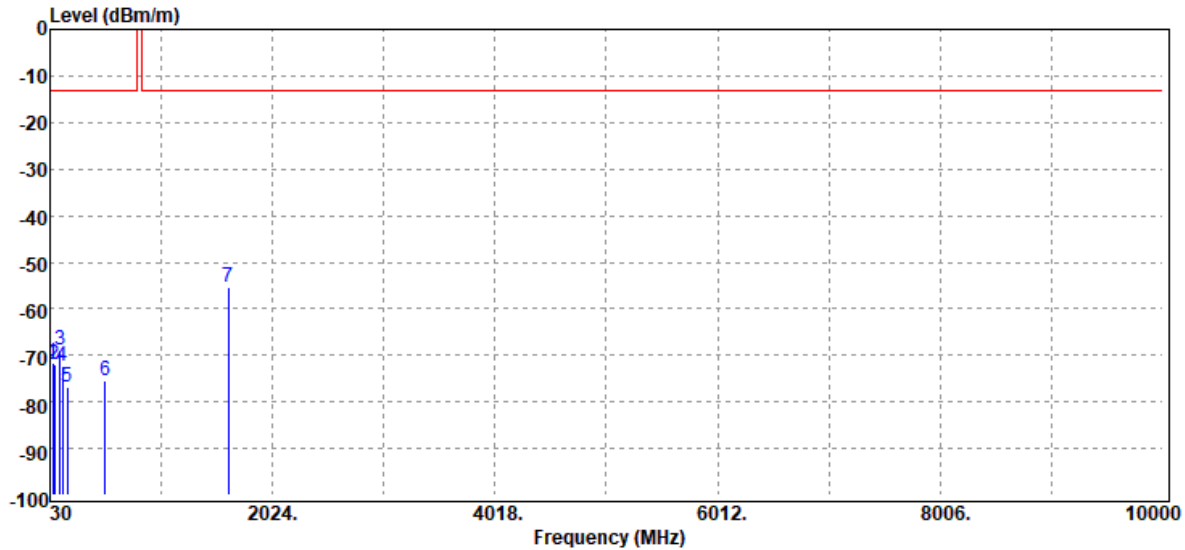
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Report Number :ER-2020-70059
 Operation Mode :Cat-M1 B26 part90
 Test Mode :Tx CH Low
 EUT Pol :H Plane
 Test Frequency :814.7 MHz

Test Site :SAC III Chamber
 Test Date :2020-07-29
 Temp./Humi. :24.7/60
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
54.25	-71.48	-60.42	-10.39	-0.67	-13.00	-58.48
72.68	-72.11	-64.59	-6.70	-0.82	-13.00	-59.11
117.30	-68.92	-60.10	-7.77	-1.05	-13.00	-55.92
143.49	-72.30	-65.67	-5.49	-1.14	-13.00	-59.30
182.29	-76.98	-74.14	-1.61	-1.23	-13.00	-63.98
526.64	-75.55	-72.78	-0.83	-1.94	-13.00	-62.55
1629.40	-55.47	-61.41	9.78	-3.84	-13.00	-42.47

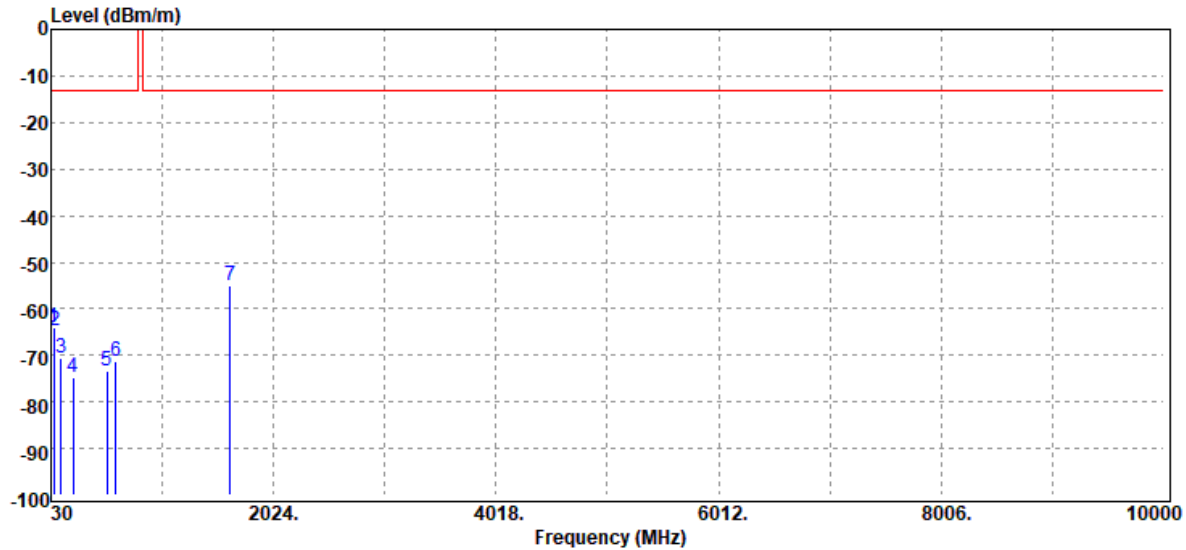
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Report Number :ER-2020-70059
 Operation Mode :Cat-M1 B26 part90
 Test Mode :Tx CH Mid
 EUT Pol :H Plane
 Test Frequency :819 MHz

Test Site :SAC III Chamber
 Test Date :2020-07-29
 Temp./Humi. :24.7/60
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
52.31	-63.96	-52.10	-11.22	-0.64	-13.00	-50.96
65.89	-64.66	-56.52	-7.35	-0.79	-13.00	-51.66
122.15	-70.65	-62.01	-7.59	-1.05	-13.00	-57.65
230.79	-74.70	-71.84	-1.43	-1.43	-13.00	-61.70
532.46	-73.26	-70.51	-0.90	-1.85	-13.00	-60.26
610.06	-71.36	-68.78	-0.62	-1.96	-13.00	-58.36
1638.00	-55.07	-61.05	9.83	-3.85	-13.00	-42.07

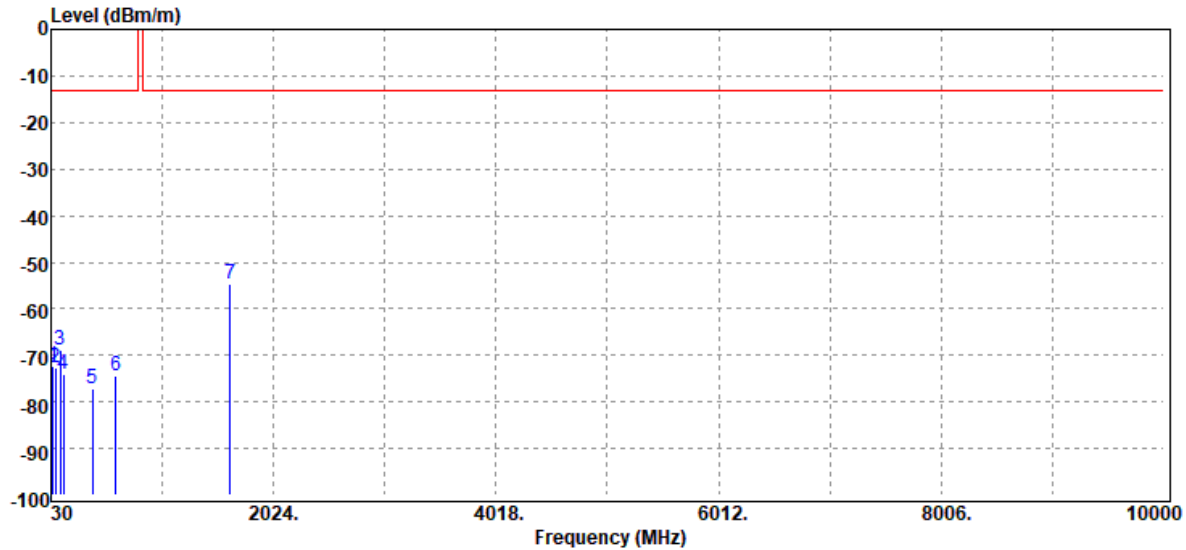
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B26 part90
Test Mode :Tx CH Mid
EUT Pol :H Plane
Test Frequency :819 MHz

Test Site :SAC III Chamber
Test Date :2020-07-29
Temp./Humi. :24.7/60
Antenna Pol. :HORIZONTAL
Engineer :Ricky



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
51.34	-72.33	-59.96	-11.75	-0.62	-13.00	-59.33
71.71	-72.75	-65.09	-6.84	-0.82	-13.00	-59.75
115.36	-68.99	-60.00	-7.95	-1.04	-13.00	-55.99
144.46	-73.93	-67.35	-5.43	-1.15	-13.00	-60.93
403.45	-77.29	-73.77	-1.65	-1.87	-13.00	-64.29
613.94	-74.50	-71.86	-0.64	-2.00	-13.00	-61.50
1638.00	-54.73	-60.71	9.83	-3.85	-13.00	-41.73

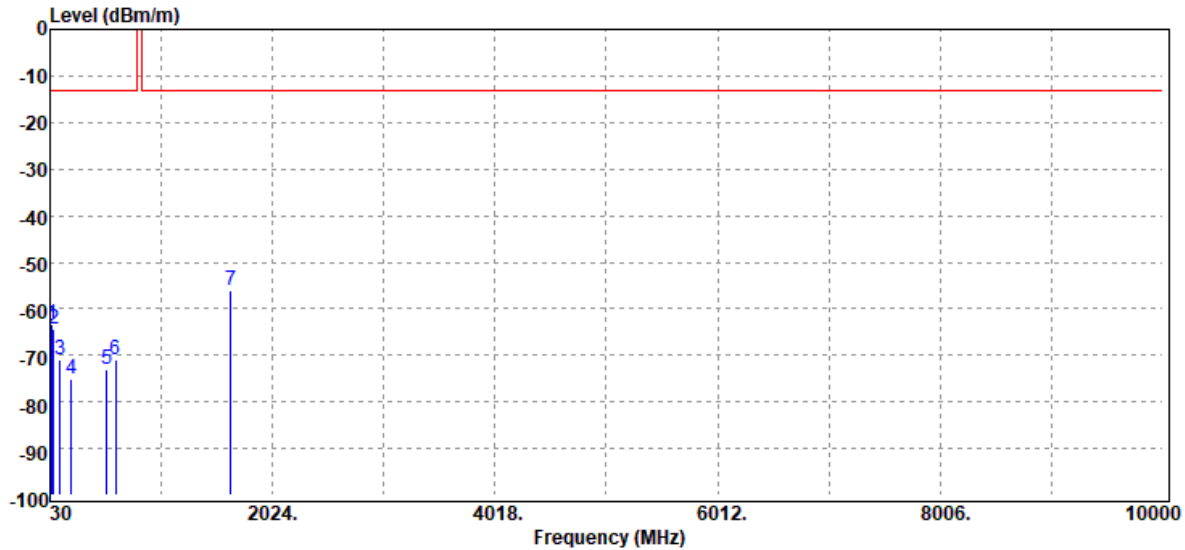
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Report Number :ER-2020-70059
Operation Mode :Cat-M1 B26 part90
Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :823.3 MHz

Test Site :SAC III Chamber
Test Date :2020-07-29
Temp./Humi. :24.7/60
Antenna Pol. :VERTICAL
Engineer :Ricky



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
51.34	-63.29	-50.92	-11.75	-0.62	-13.00	-50.29
64.92	-64.40	-56.13	-7.49	-0.78	-13.00	-51.40
122.15	-70.83	-62.19	-7.59	-1.05	-13.00	-57.83
224.00	-75.20	-72.75	-1.06	-1.39	-13.00	-62.20
542.16	-73.08	-70.00	-1.09	-1.99	-13.00	-60.08
614.91	-70.92	-68.26	-0.65	-2.01	-13.00	-57.92
1646.60	-56.15	-62.17	9.88	-3.86	-13.00	-43.15

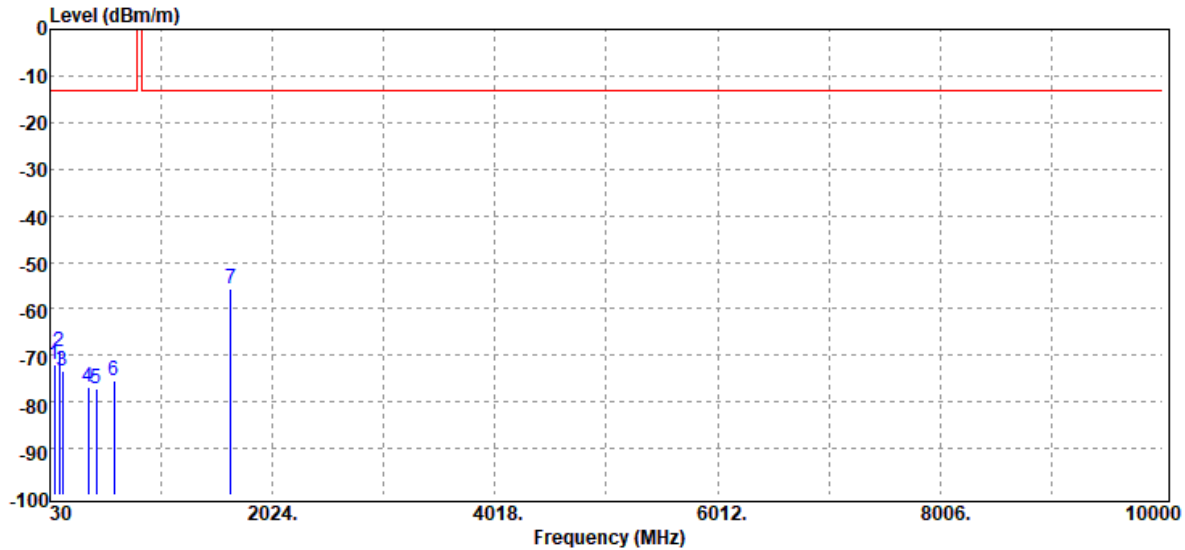
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Test Mode :Tx CH High
EUT Pol :H Plane
Test Frequency :823.3 MHz

Test Site :SAC III Chamber
Test Date :2020-07-29
Temp./Humi. :24.7/60
Antenna Pol. :HORIZONTAL
Engineer :Ricky



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
71.71	-72.09	-64.43	-6.84	-0.82	-13.00	-59.09
115.36	-69.32	-60.33	-7.95	-1.04	-13.00	-56.32
141.55	-73.41	-66.59	-5.71	-1.11	-13.00	-60.41
369.50	-76.65	-73.53	-1.38	-1.74	-13.00	-63.65
445.16	-77.02	-73.92	-1.25	-1.85	-13.00	-64.02
605.21	-75.36	-72.56	-0.69	-2.11	-13.00	-62.36
1646.60	-55.85	-61.87	9.88	-3.86	-13.00	-42.85

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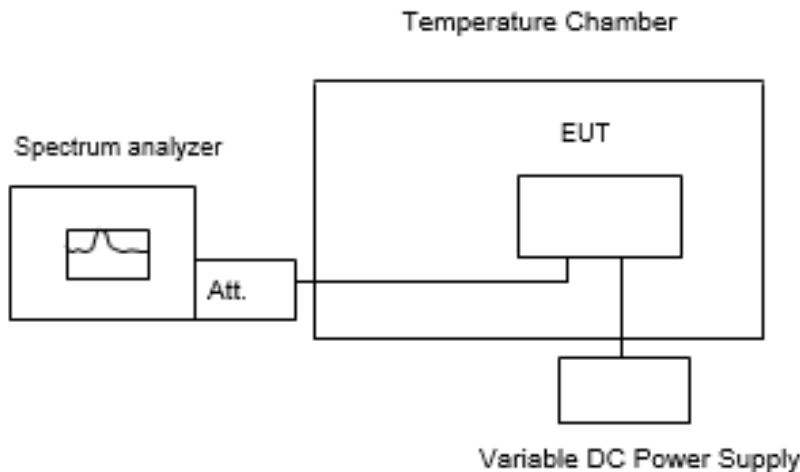
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10 FREQUENCY STABILITY MEASUREMENT

10.1 Standard Applicabl

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

10.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

10.3 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°C. 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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10.4 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G1 8G	11-JSPF412-018	01/02/2020	01/01/2021

10.5 Measurement Result

Note: The battery is rated 3.6V dc.

10.5.1 Cat M1

Reference Freq.:		M1 B2 Mid Channel	1880	MHz 20M QPSK CH 18900
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	1879.999991	-9.000000091	4700
3.6	25	1879.999996	-3.99999999	4700
2.85	25	1879.999991	-9.000000091	4700
1.93 (End Point)	25	1880.000007	7.000000096	4700
Freq. ERROR vs. Temp.				
3.6	-30	1879.999994	-5.999999985	4700
3.6	-20	1879.999991	-9.000000091	4700
3.6	-10	1880.000010	9.999999975	4700
3.6	0	1880.000007	7.000000096	4700
3.6	10	1879.999991	-9.000000091	4700
3.6	20	1880.000003	3.000000106	4700
3.6	30	1879.999997	-3.000000106	4700
3.6	40	1879.999994	-5.999999985	4700
3.6	50	1880.000004	3.99999999	4700

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Reference Freq.:		M1 B4 Mid Channel	1732.5	MHz 20M QPSK CH 20175
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	1732.500002	1.99999995	4331
3.6	25	1732.500004	3.99999999	4331
2.85	25	1732.500004	3.99999999	4331
1.93 (End Point)	25	1732.499997	-3.00000011	4331
Freq. ERROR vs. Temp.				
3.6	-30	1732.499991	-9.00000009	4331
3.6	-20	1732.500001	1.00000011	4331
3.6	-10	1732.499999	-1.00000011	4331
3.6	0	1732.499994	-5.99999998	4331
3.6	10	1732.499992	-7.99999998	4331
3.6	20	1732.500003	3.000000106	4331
3.6	30	1732.499993	-7.00000001	4331
3.6	40	1732.500009	9.000000091	4331
3.6	50	1732.499992	-7.99999998	4331

Reference Freq.:		M1 B12 Mid Channel	707.5	MHz 10M QPSK CH 23095
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	707.499997	-2.999999992	1769
3.6	25	707.500008	7.99999998	1769
2.85	25	707.499991	-8.999999977	1769
1.93 (End Point)	25	707.499994	-5.999999985	1769
Freq. ERROR vs. Temp.				
3.6	-30	707.499997	-2.999999992	1769
3.6	-20	707.499996	-3.99999999	1769
3.6	-10	707.499997	-2.999999992	1769
3.6	0	707.500007	6.999999982	1769
3.6	10	707.499996	-3.99999999	1769
3.6	20	707.500005	4.999999987	1769
3.6	30	707.499997	-2.999999992	1769
3.6	40	707.499995	-4.999999987	1769
3.6	50	707.500003	2.999999992	1769

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Reference Freq.:		M1 B26 Mid Channel		831.5	MHz 15M QPSK CH 26865
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
4.35	25	831.500003	2.999999992	2091	
3.6	25	831.500000	0	2091	
2.85	25	831.500008	7.99999998	2091	
1.93 (End Point)	25	831.499995	-4.99999999	2091	
Freq. ERROR vs. Temp.					
3.6	-30	831.499997	-2.99999999	2091	
3.6	-20	831.499992	-7.99999998	2091	
3.6	-10	831.500000	0	2091	
3.6	0	831.500008	7.99999998	2091	
3.6	10	831.499999	-1	2091	
3.6	20	831.500001	0.999999997	2091	
3.6	30	831.500003	2.999999992	2091	
3.6	40	831.499995	-4.99999999	2091	
3.6	50	831.499999	-1	2091	

Reference Freq.:		Part 90 M1 B26 Mid Channel		819	MHz 10M QPSK CH 26740
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE (M1 B26 for Part 90S)					
4.35	25	819.000006	5.999999985	2048	
3.6	25	818.999997	-2.999999992	2048	
2.85	25	818.999994	-5.999999985	2048	
1.93 (End Point)	25	819.000004	3.999999999	2048	
Freq. ERROR vs. Temp.					
3.6	-30	818.999993	-6.999999982	2048	
3.6	-20	819.000003	2.999999992	2048	
3.6	-10	819.000004	3.999999999	2048	
3.6	0	819.000000	0	2048	
3.6	10	819.000000	0	2048	
3.6	20	819.000001	0.999999997	2048	
3.6	30	819.000006	5.999999985	2048	
3.6	40	818.999994	-5.999999985	2048	
3.6	50	818.999995	-4.999999987	2048	

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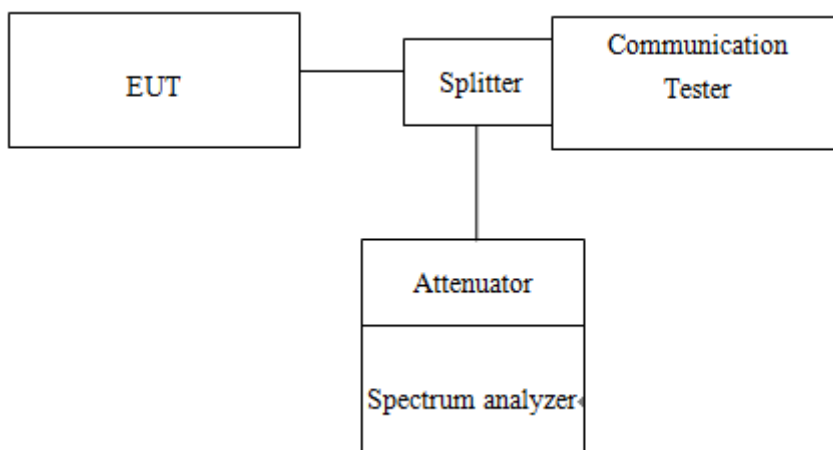
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11 PEAK TO AVERAGE RATIO

11.1 Standard Applicable

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

11.2 Test SET-UP



11.3 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.

11.4 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Radio Communication Analyser	Anritsu	MT8821C	6261786084	01/18/2020	01/17/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

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11.5 Measurement Result

11.5.1 Cat M1

M1 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	7.52	13	1851.5	18615	9.60	13
1880.0	18900	9.37	13	1880.0	18900	9.43	13
1909.3	19193	10.31	13	1908.5	19185	8.29	13

M1 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	9.48	13	1711.5	19965	10.30	13
1732.5	20175	8.16	13	1732.5	20175	9.54	13
1754.3	20393	10.68	13	1753.5	20385	10.32	13

M1 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	10.11	13	1855.0	18650	11.38	13
1880.0	18900	7.65	13	1880.0	18900	9.45	13
1907.5	19175	9.74	13	1905.0	19150	10.25	13

M1 BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.5	19975	9.92	13	1715.0	20000	10.97	13
1732.5	20175	9.02	13	1732.5	20175	7.41	13
1752.5	20375	9.68	13	1750.0	20350	9.90	13

M1 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	9.38	13	1860.0	18700	6.32	13
1880.0	18900	9.51	13	1880.0	18900	4.19	13
1902.5	19125	10.03	13	1900.0	19100	4.28	13

M1 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	10.23	13	1720.0	20050	5.28	13
1732.5	20175	9.67	13	1732.5	20175	8.99	13
1747.5	20325	9.40	13	1745.0	20300	7.17	13

M1 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	10.53	13	700.5	23025	9.90	13
707.5	23095	10.59	13	707.5	23095	10.35	13
715.3	23173	11.72	13	714.5	23165	9.33	13

M1 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	10.68	13	704.0	23060	10.30	13
707.5	23095	10.33	13	707.5	23095	9.51	13
713.5	23155	10.46	13	711.0	23130	10.08	13

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M1 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	8.15	13	815.5	26705	9.29	13
831.5	26865	10.93	13	831.5	26865	10.04	13
848.3	27033	8.10	13	847.5	27025	9.90	13

M1 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	10.43	13	820.0	26750	10.92	13
831.5	26865	9.49	13	831.5	26865	9.67	13
846.5	27015	8.22	13	844.0	26990	11.24	13

M1 BAND 26			
Channel bandwidth: 15MHz			
Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit
822.5	26775	9.61	13
831.5	26865	8.79	13
841.5	26965	10.46	13

M1 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	10.55	13	815.5	26705	10.48	13
819.0	26740	9.83	13	819	26740	9.49	13
823.3	26783	9.43	13	822.5	26775	9.39	13

M1 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	7.37	13	819.0	26740	8.58	13
819.0	26740	10.58	13				
821.5	26765	7.69	13				

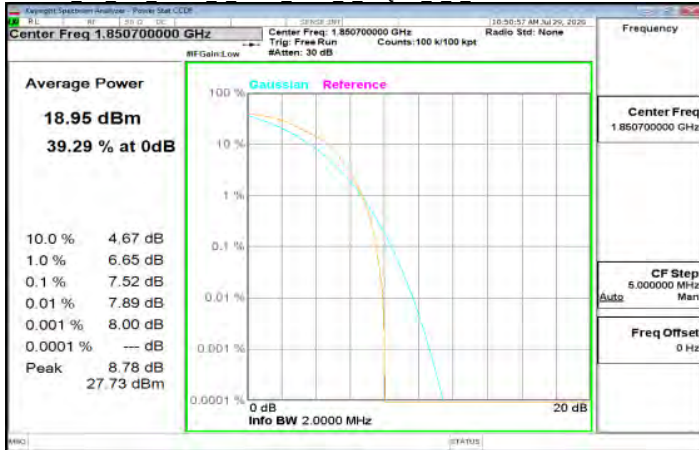
Please refer to next page for test plots.

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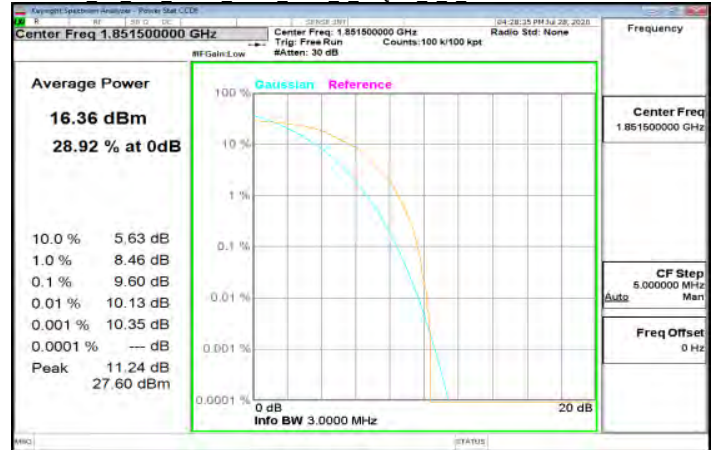
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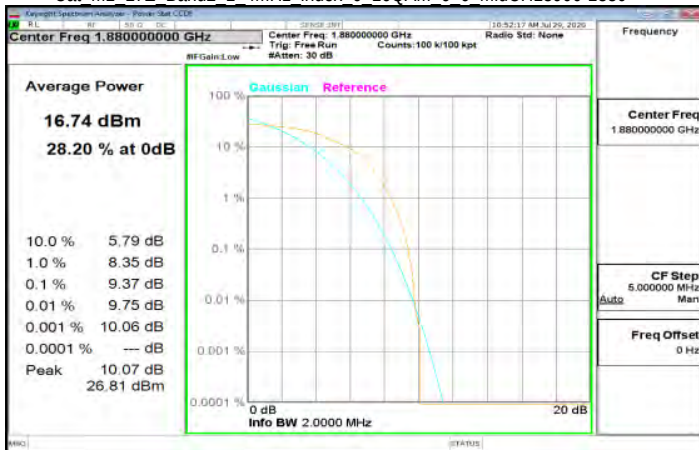
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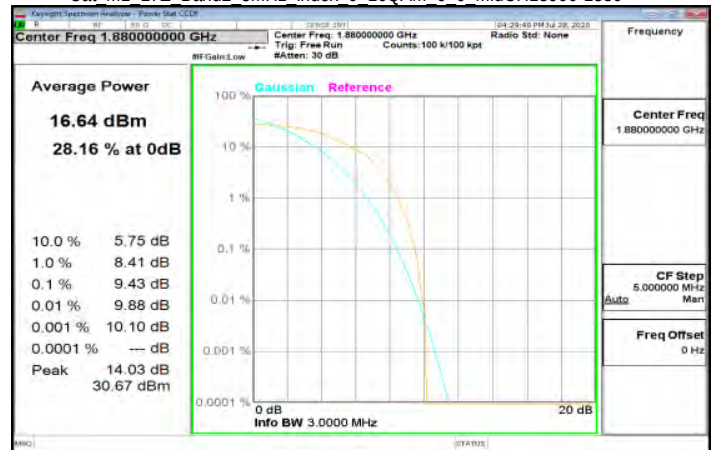
Cat M1 LTE Band2 3MHz index 0 16QAM 6 0 LowCH18615-1851.5



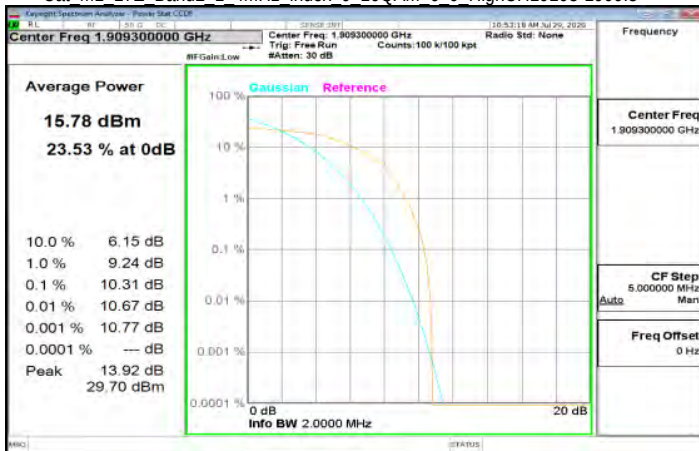
Cat M1 LTE Band2 1 4MHz index 0 16QAM 6 0 MidCH18900-1880



Cat M1 LTE Band2 3MHz index 0 16QAM 6 0 MidCH18900-1880



Cat M1 LTE Band2 1 4MHz index 0 16QAM 6 0 HighCH19193-1909.3



Cat M1 LTE Band2 3MHz index 1 16QAM 6 0 HighCH19185-1908.5

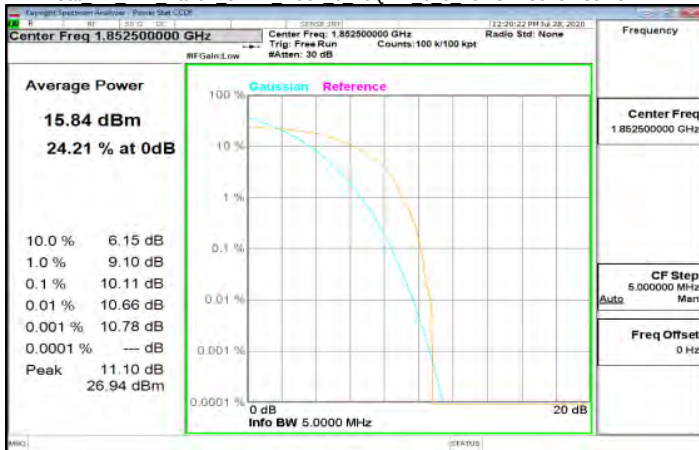


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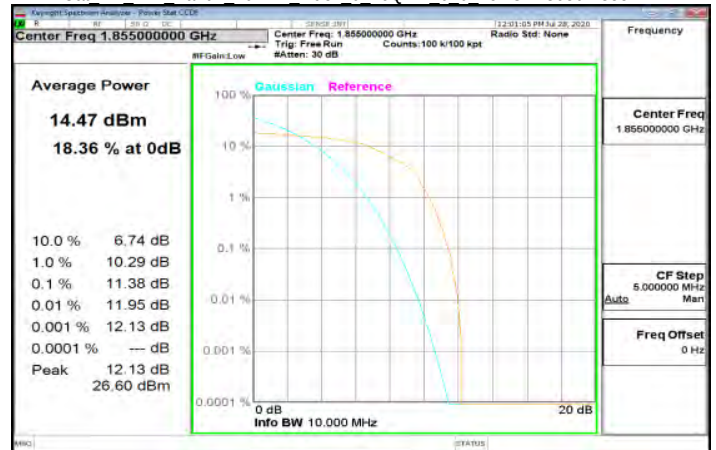
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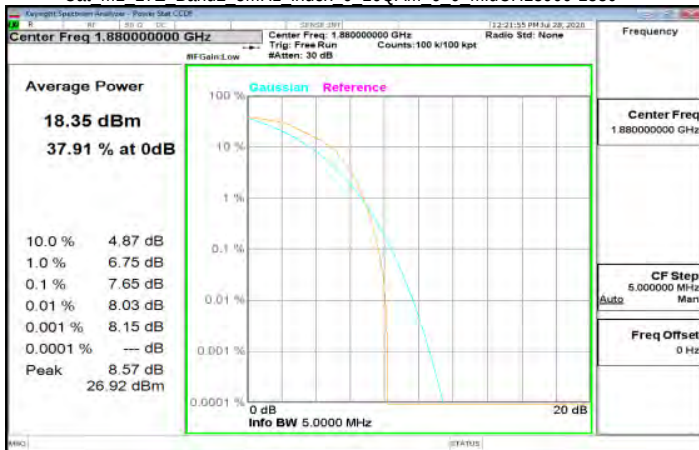
Cat M1 LTE Band2 5MHz index 0 16QAM 6 0 LowCH18625-1852.5



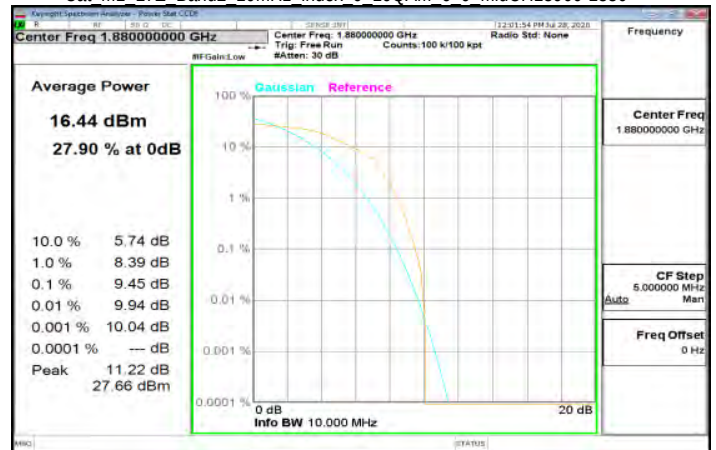
Cat M1 LTE Band2 10MHz index 0 16QAM 6 0 LowCH18650-1855



Cat M1 LTE Band2 5MHz index 0 16QAM 6 0 MidCH18900-1880



Cat M1 LTE Band2 10MHz index 0 16QAM 6 0 MidCH18900-1880



Cat M1 LTE Band2 5MHz index 3 16QAM 6 0 HighCH19175-1907.5



Cat M1 LTE Band2 10MHz index 7 16QAM 6 0 HighCH19150-1905

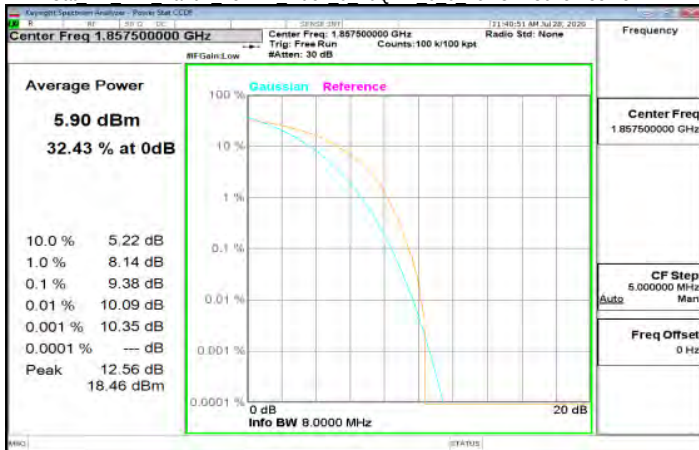


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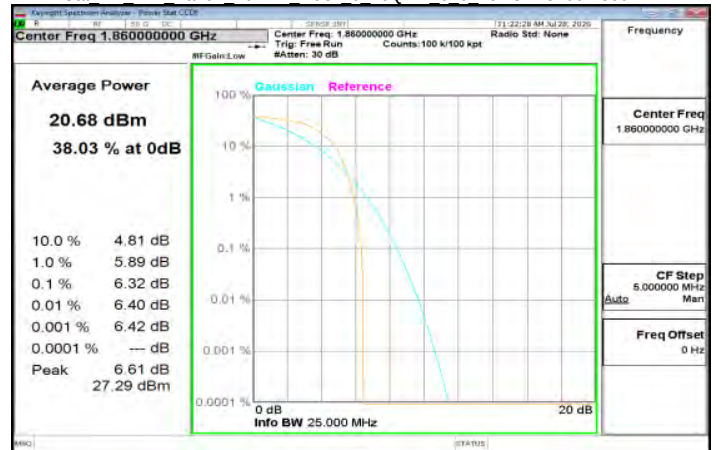
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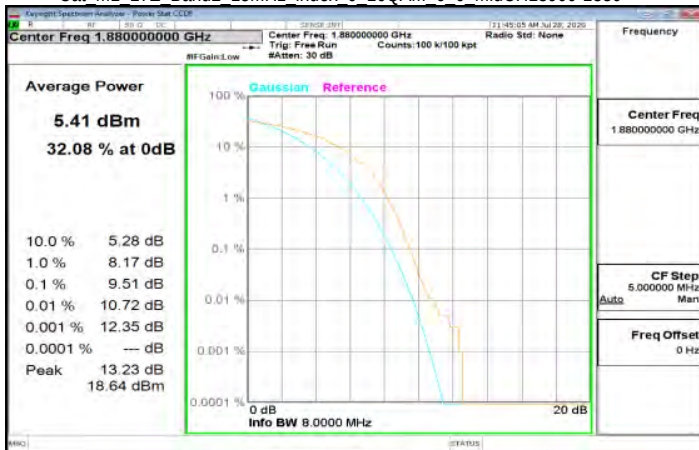
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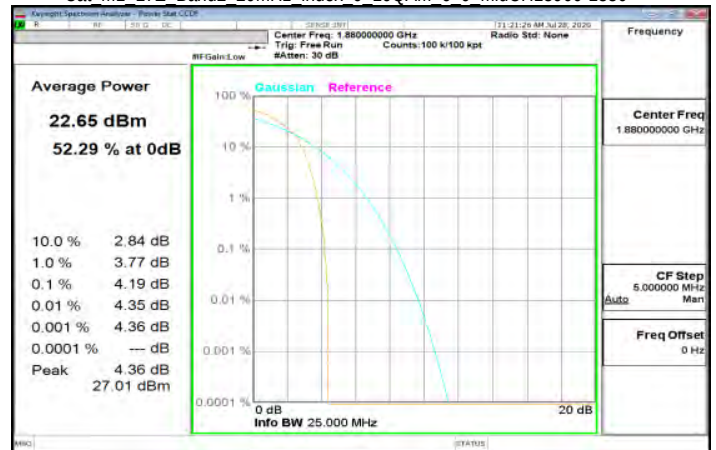
Cat M1 LTE Band2 20MHz index 0 16QAM 6 0 LowCH18700-1860



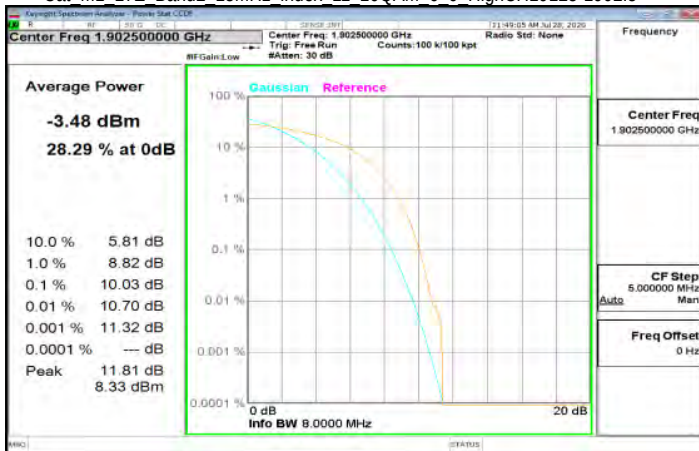
Cat M1 LTE Band2 15MHz index 0 16QAM 6 0 MidCH18900-1880



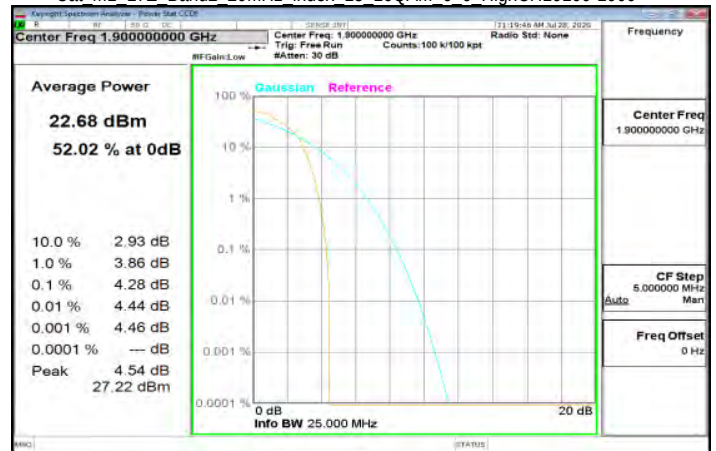
Cat M1 LTE Band2 20MHz index 0 16QAM 6 0 MidCH18900-1880



Cat M1 LTE Band2 15MHz index 11 16QAM 6 0 HighCH19125-1902.5



Cat M1 LTE Band2 20MHz index 15 16QAM 6 0 HighCH19100-1900

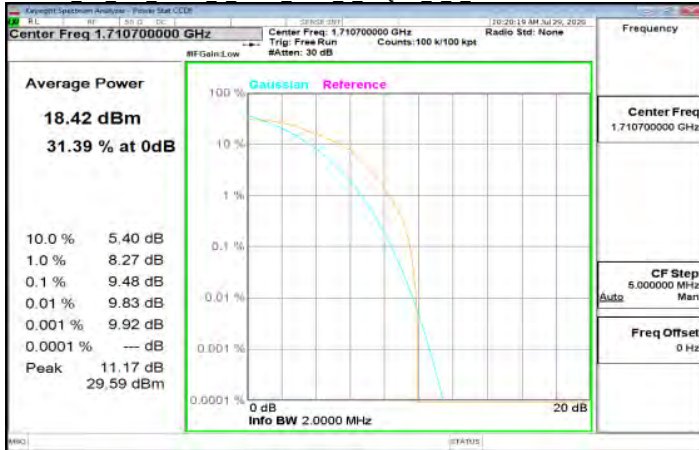


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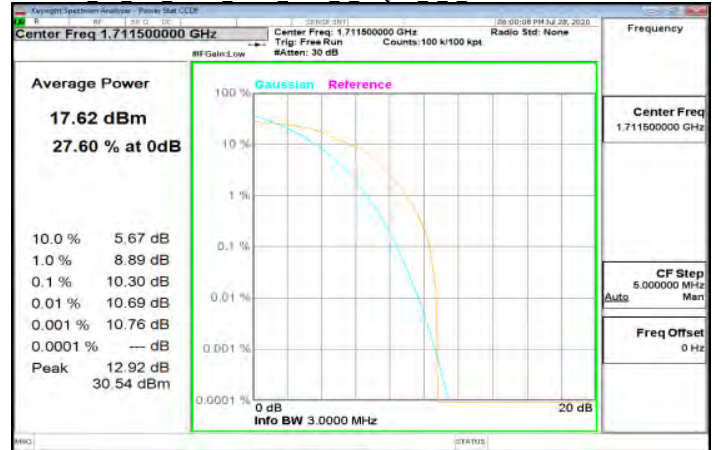
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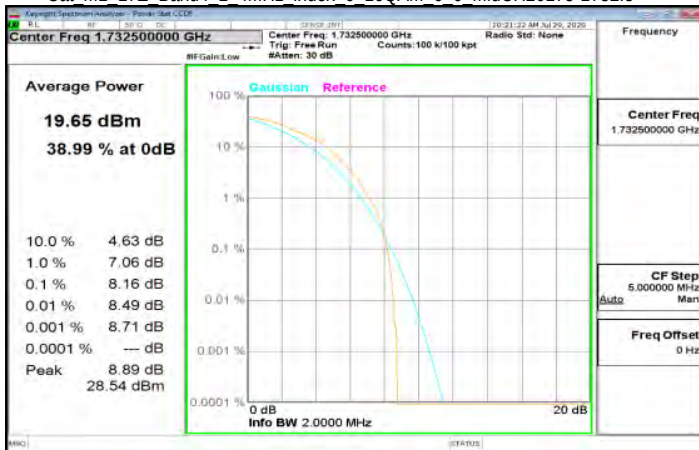
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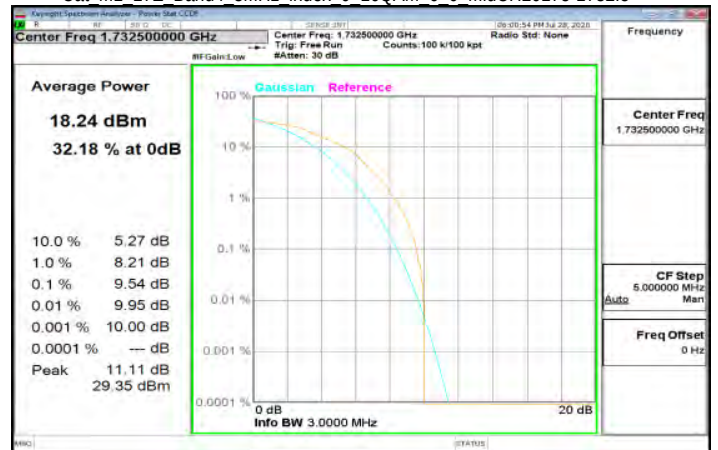
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Cat M1 LTE Band4 1 4MHz index 0 16QAM 6 0 MidCH20175-1732.5



Cat M1 LTE Band4 3MHz index 0 16QAM 6 0 MidCH20175-1732.5



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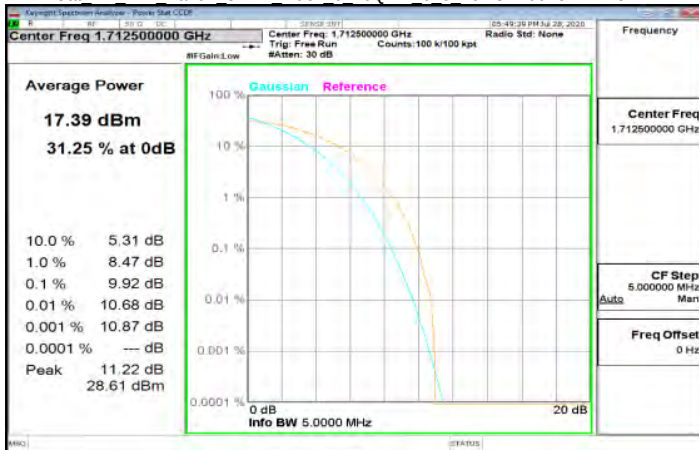


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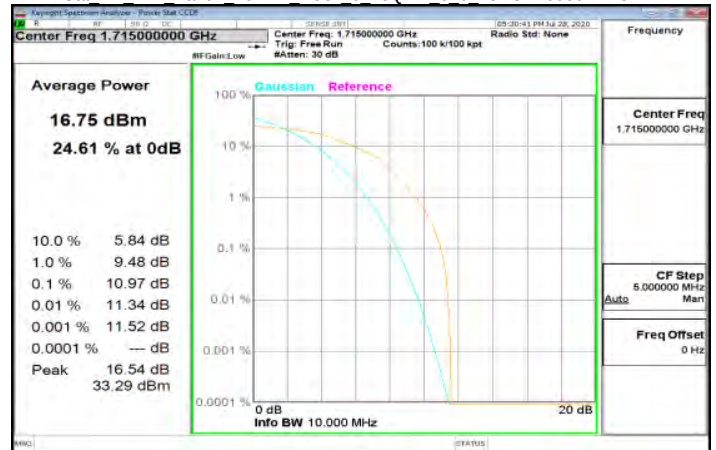
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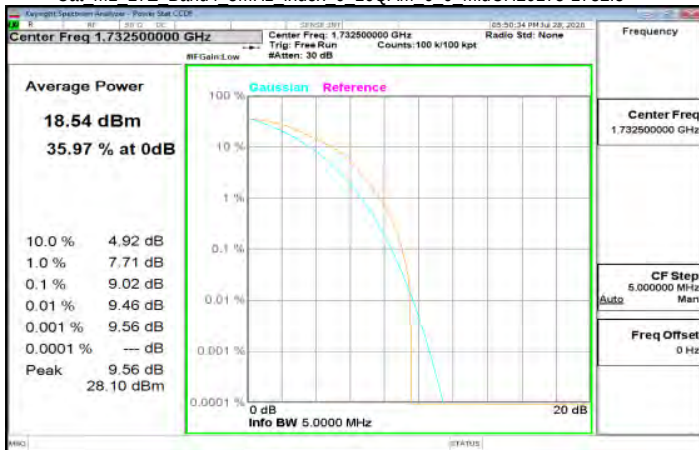
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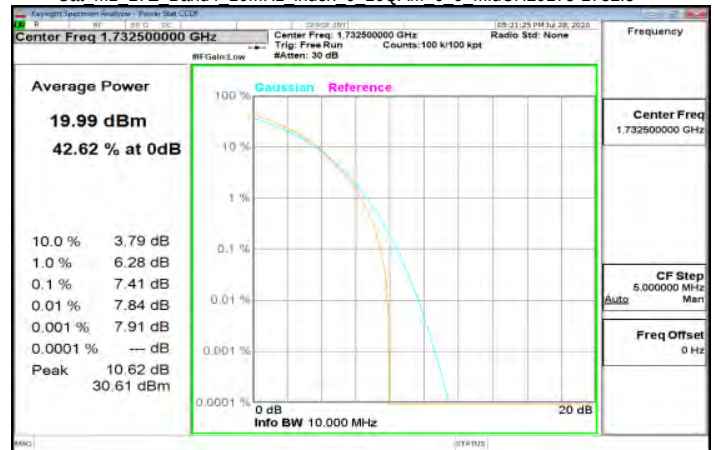
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Cat M1 LTE Band4 5MHz index 0 16QAM 6 0 MidCH20175-1732.5



Cat M1 LTE Band4 10MHz index 0 16QAM 6 0 MidCH20175-1732.5



Cat M1 LTE Band4 5MHz index 3 16QAM 6 0 HighCH20375-1752.5



Cat M1 LTE Band4 10MHz index 7 16QAM 6 0 HighCH20350-1750



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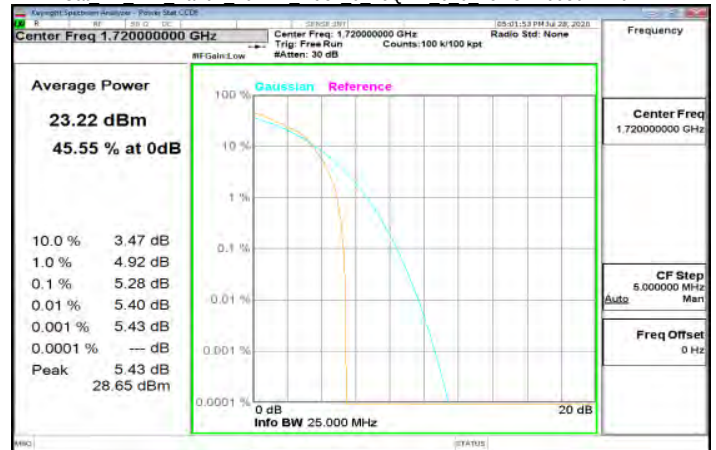
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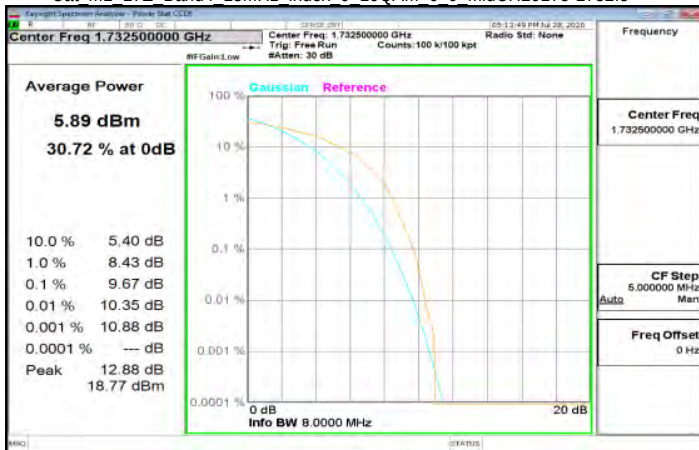
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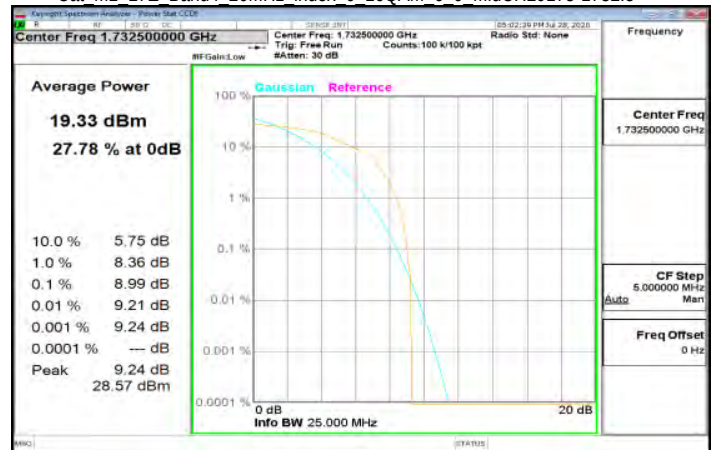
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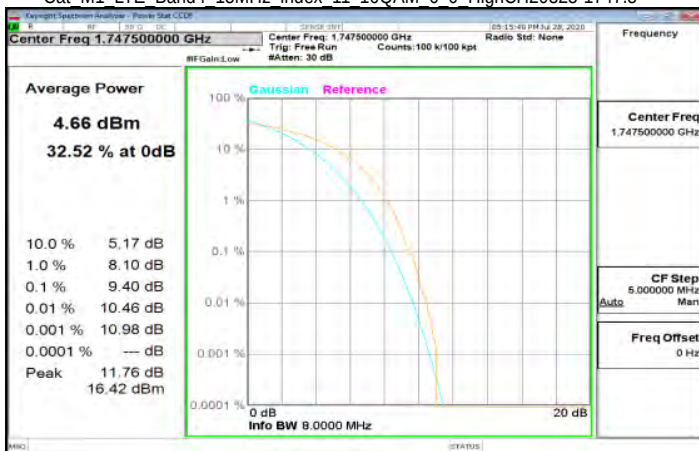
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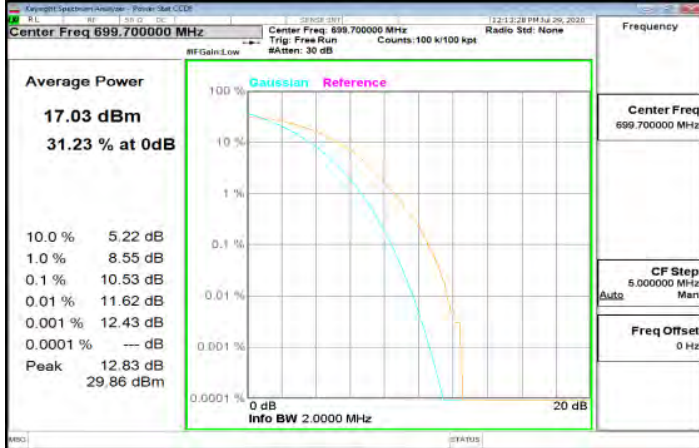


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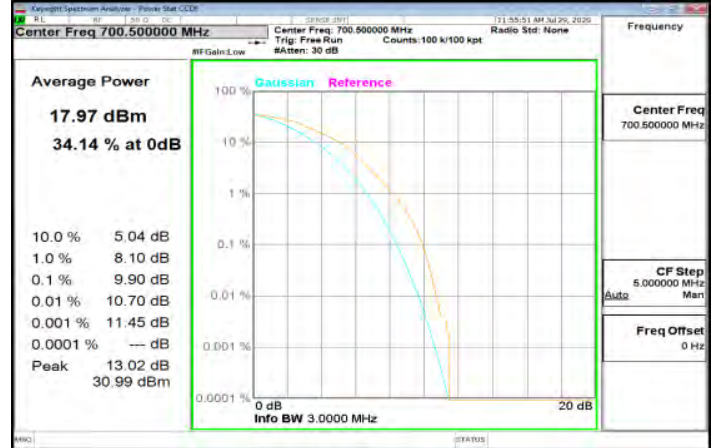
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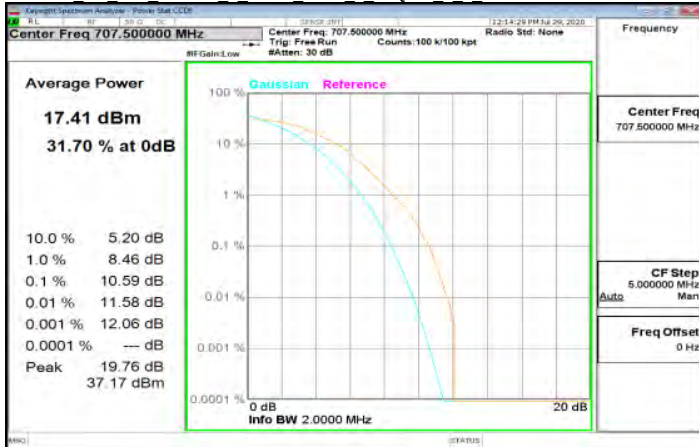
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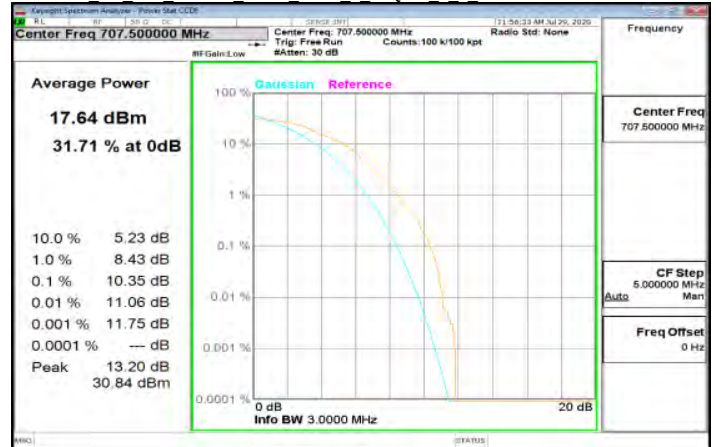
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Cat M1 LTE Band12 1 4MHz index 0 16QAM 6 0 MidCH23095-707.5



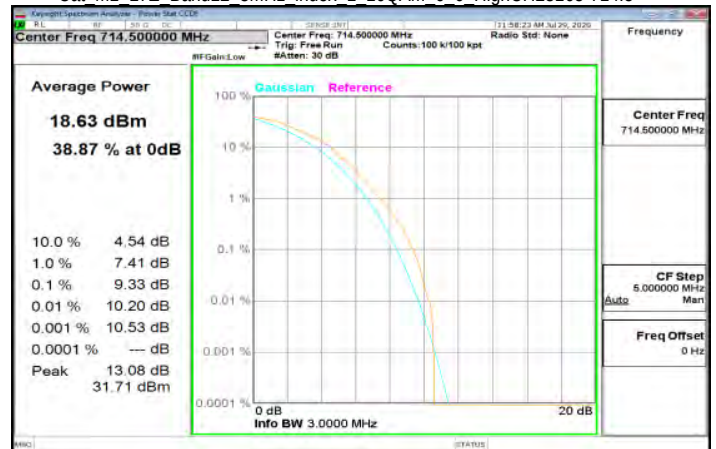
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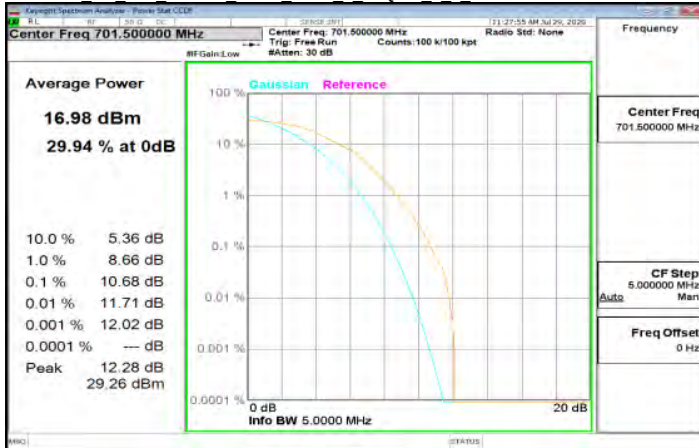


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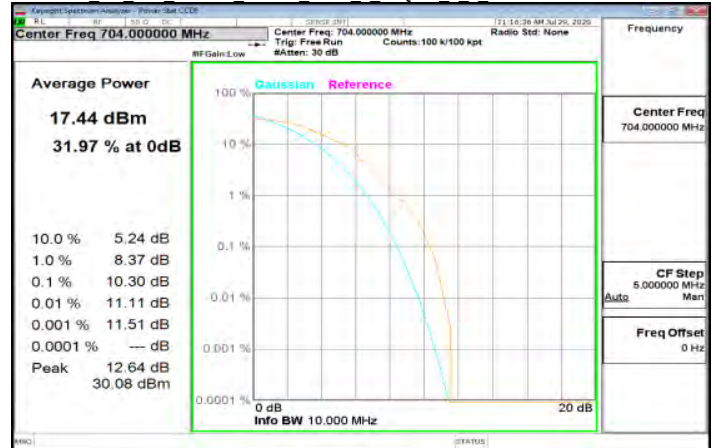
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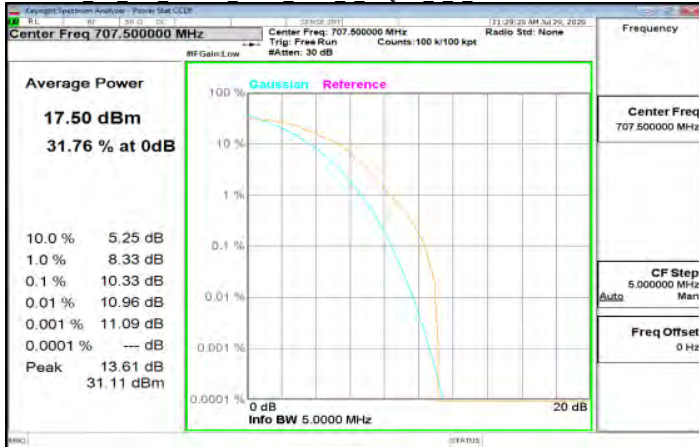
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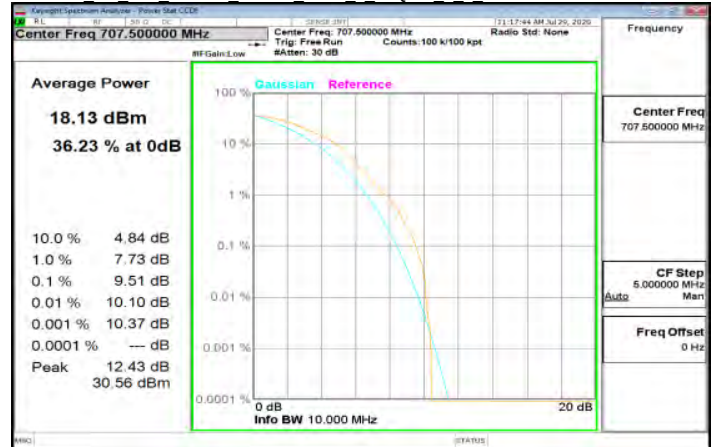
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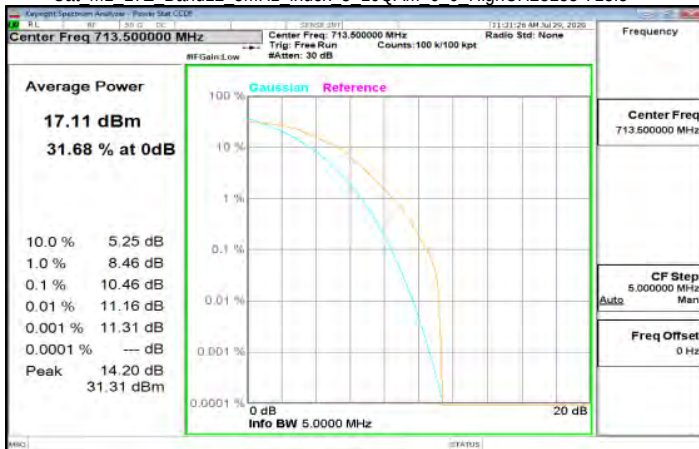
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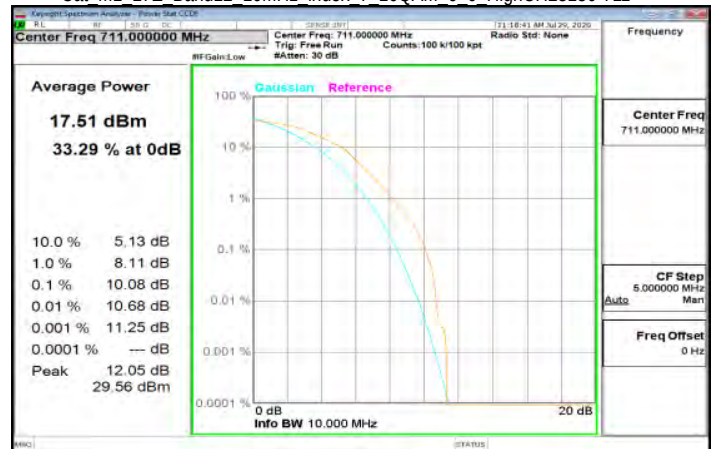
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Cat M1 LTE Band12 10MHz index 7 16QAM 6 0 HighCH23130-711

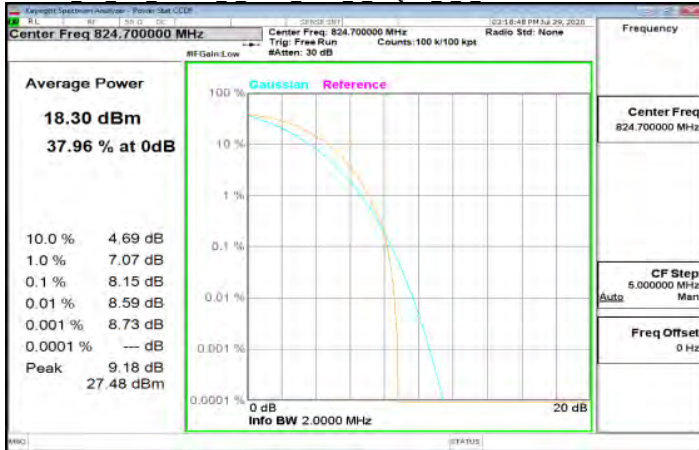


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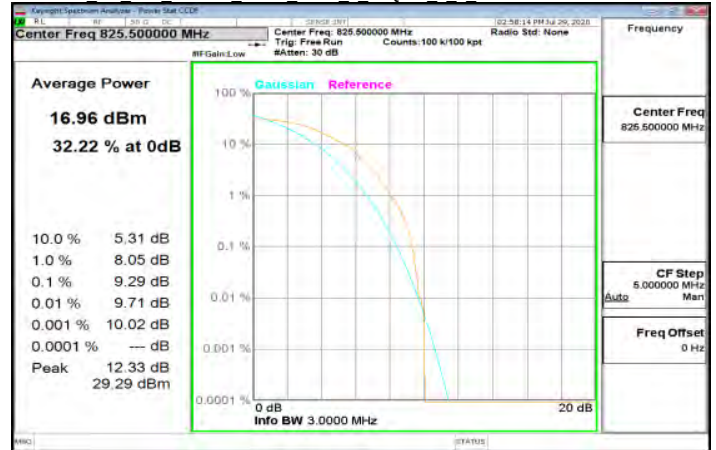
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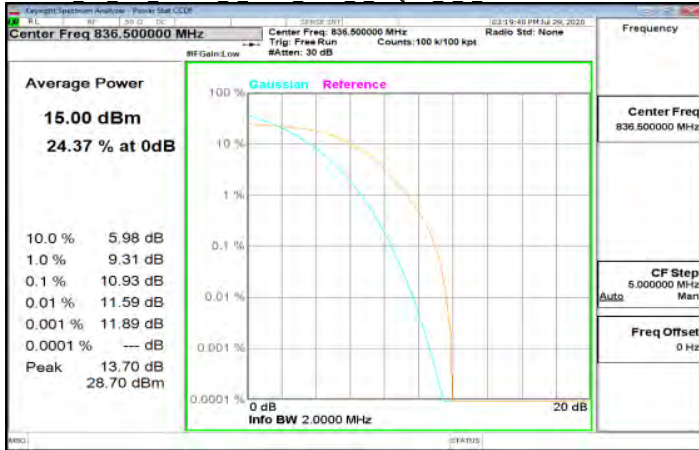
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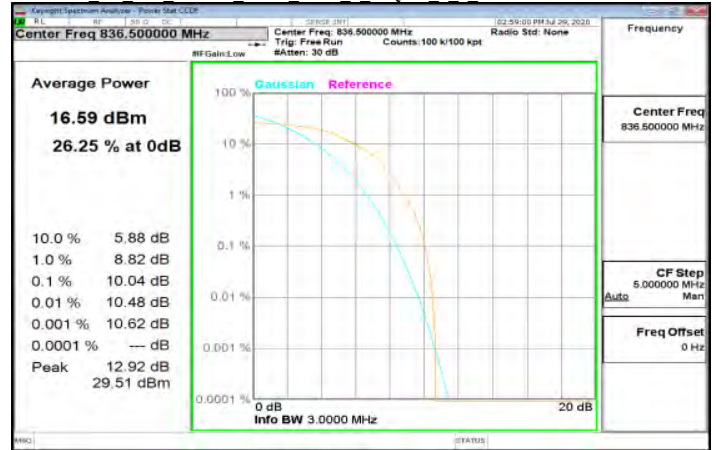
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Cat M1 LTE Band26 1 4MHz index 0 16QAM 6 0 MidCH26915-836.5



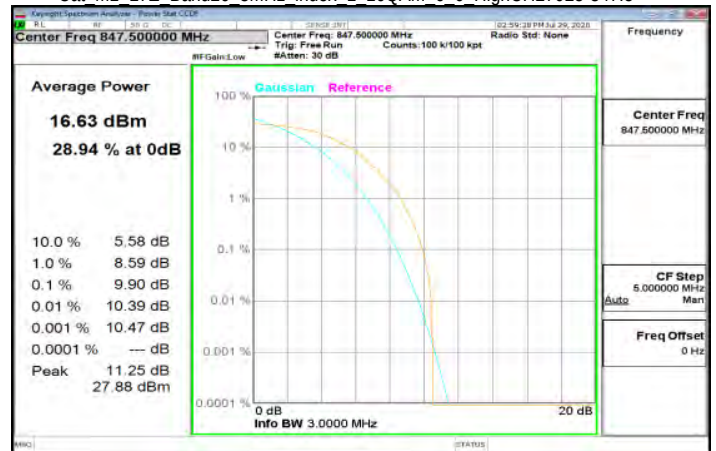
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Cat M1 LTE Band26 1 4MHz index 0 16QAM 6 0 HighCH27033-848.3



Cat M1 LTE Band26 3MHz index 1 16QAM 6 0 HighCH27025-847.5



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Cat M1 LTE Band26 5MHz index 0 16QAM 6 0 LowCH26815-826.5



Cat M1 LTE Band26 10MHz index 0 16QAM 6 0 LowCH26840-829



Cat M1 LTE Band26 5MHz index 0 16QAM 6 0 MidCH26915-836.5



Cat M1 LTE Band26 10MHz index 0 16QAM 6 0 MidCH26915-836.5



Cat M1 LTE Band26 5MHz index 3 16QAM 6 0 HighCH27015-846.5



Cat M1 LTE Band26 10MHz index 7 16QAM 6 0 HighCH26990-844



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Cat M1 LTE Band26 15MHz index 0 16QAM 6 0 LowCH26865-831.5



Cat M1 LTE Band26 Part90s 1 4MHz index 0 16QAM 6 0 LowCH26697-814.7



Cat M1 LTE Band26 15MHz index 0 16QAM 6 0 MidCH26915-836.5



Cat M1 LTE Band26 Part90s 1 4MHz index 0 16QAM 6 0 MidCH26740-819



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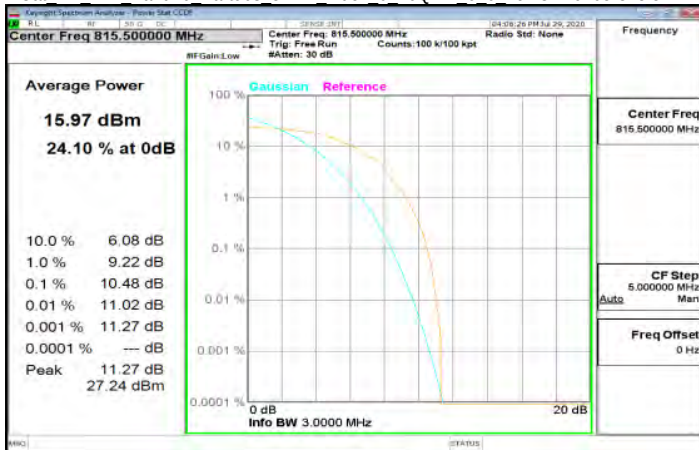


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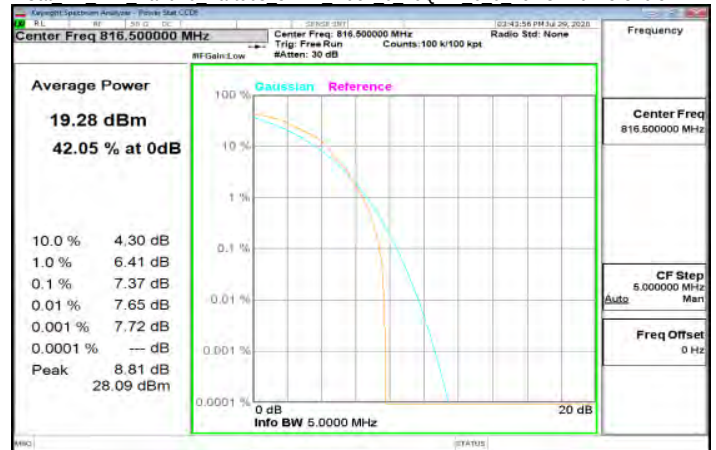
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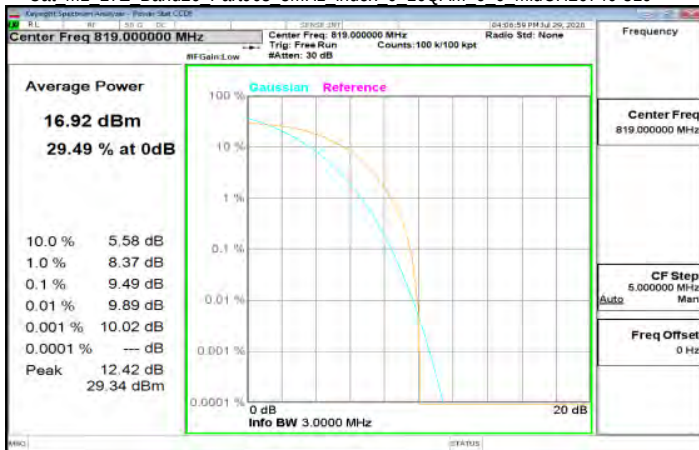
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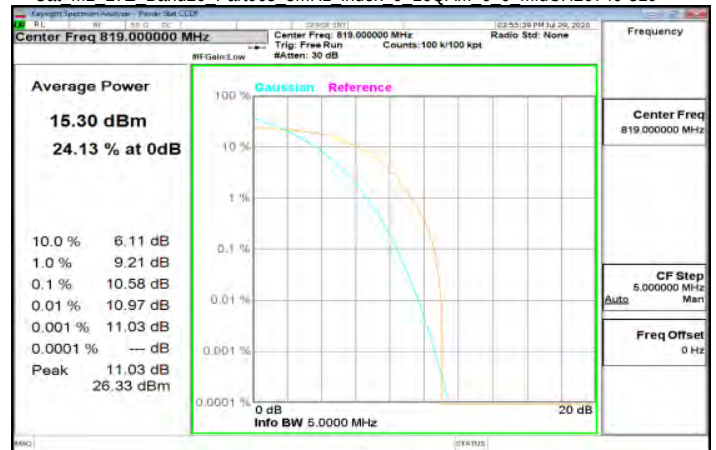
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Cat M1 LTE Band26 Part90s 3MHz index 0 16QAM 6 0 MidCH26740-819



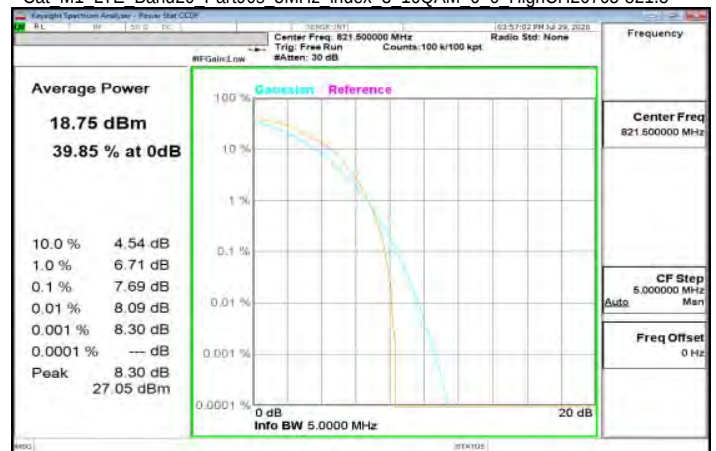
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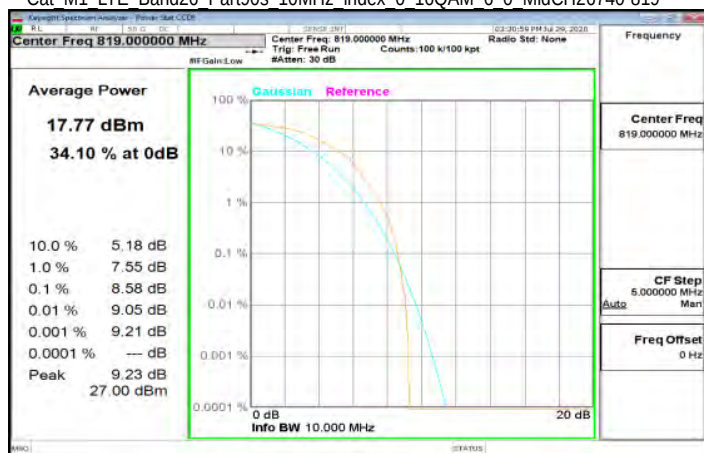


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Cat M1 LTE Band26 Part90s 10MHz index 0 16QAM 6 0 MidCH26740-819



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