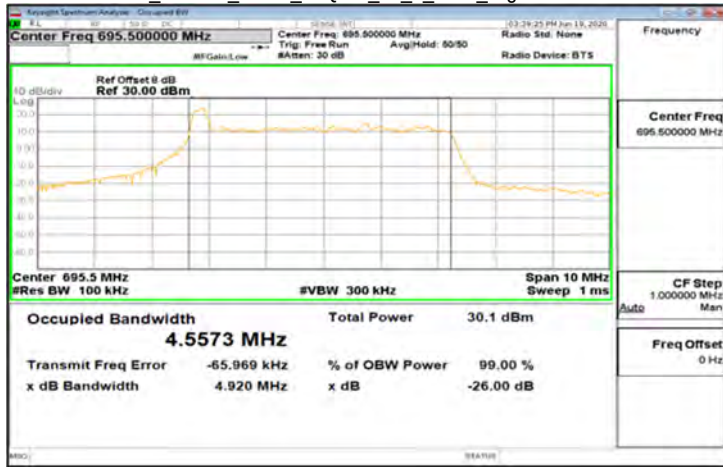
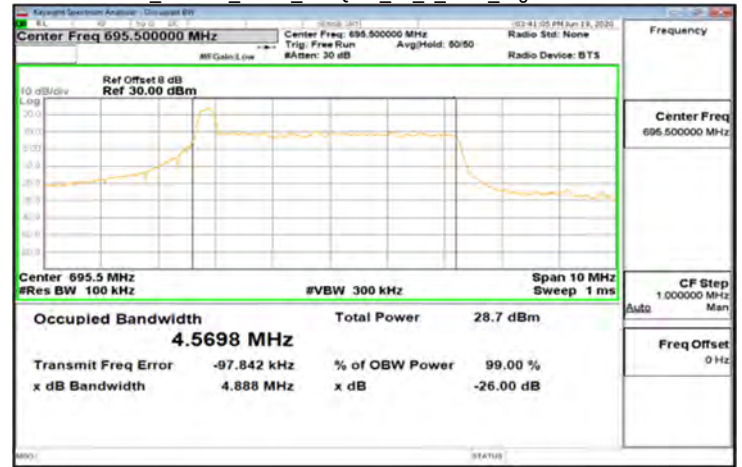


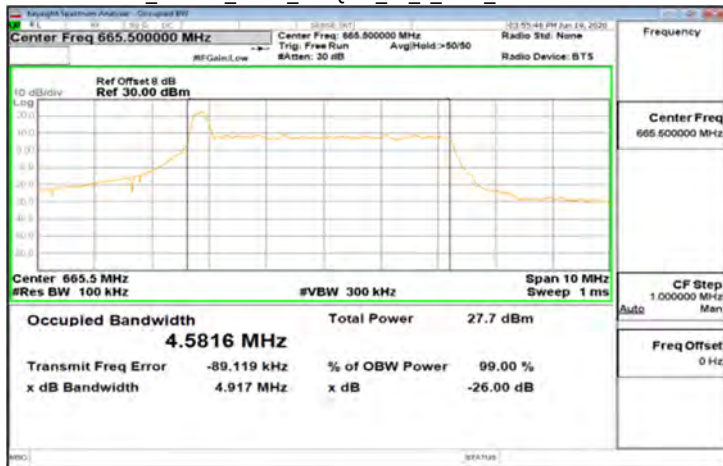
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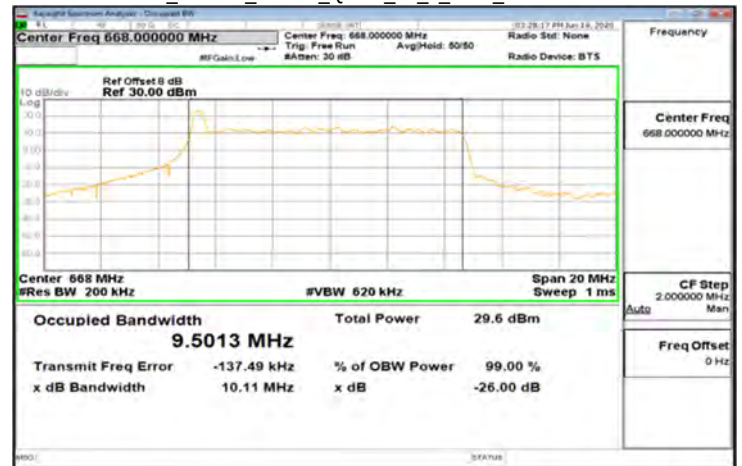
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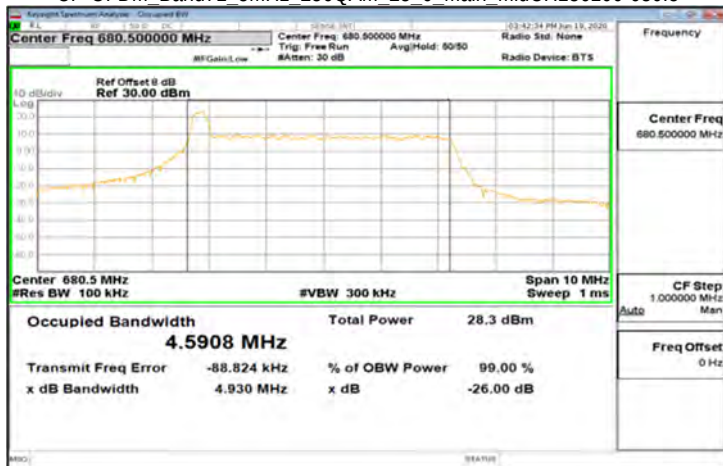
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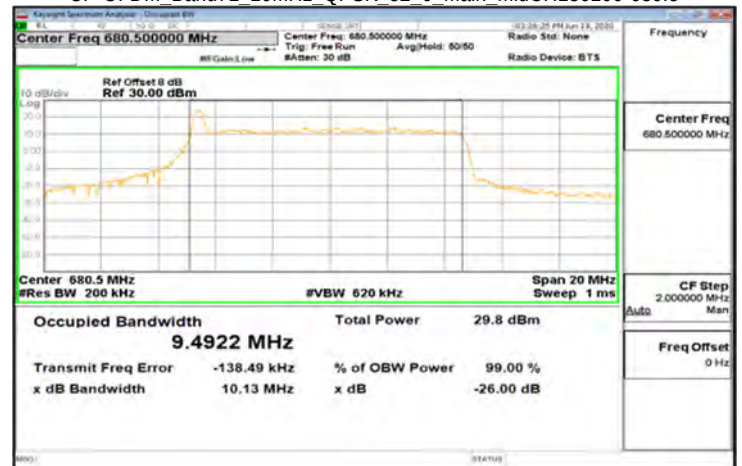
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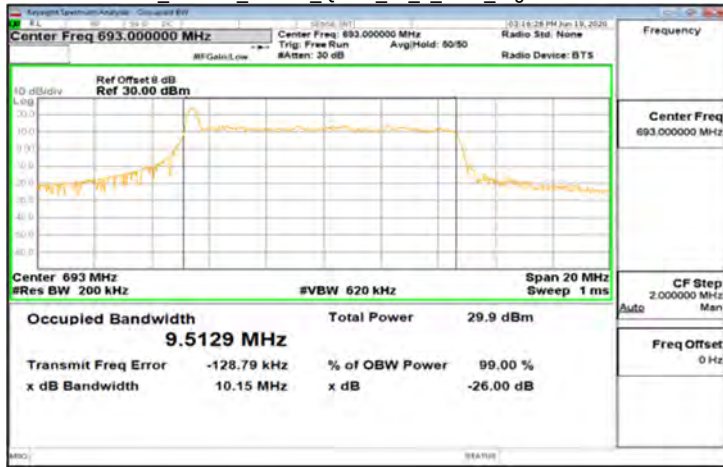


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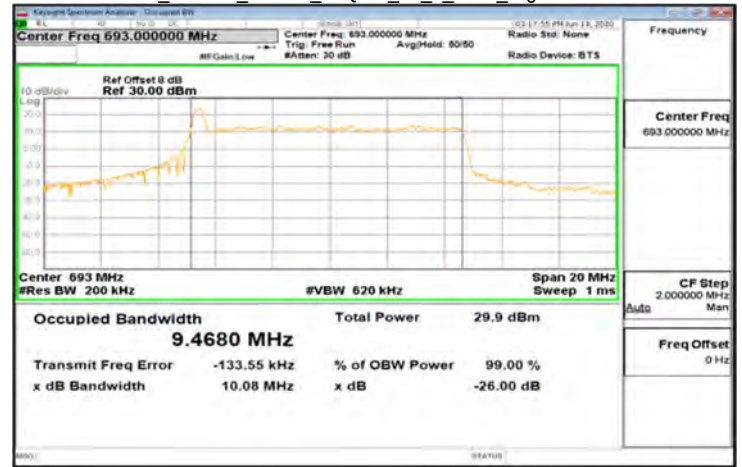
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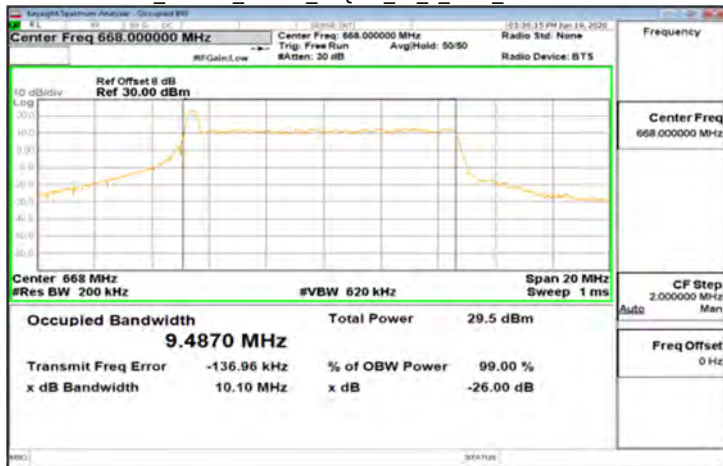
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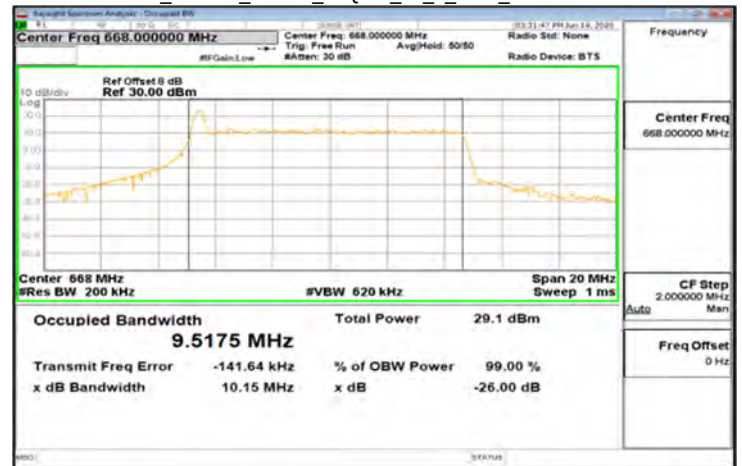
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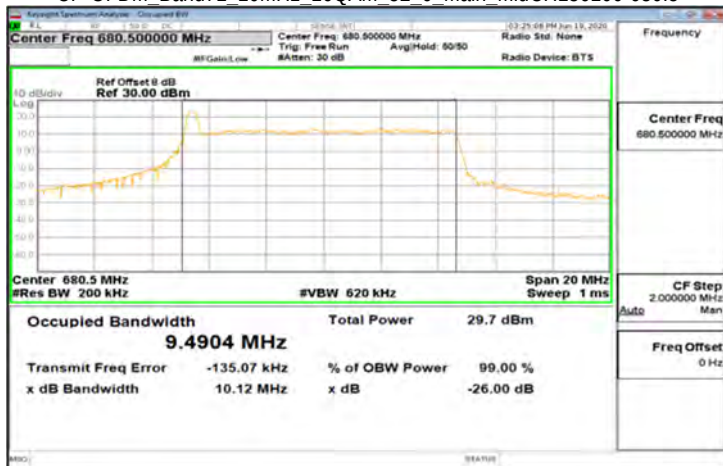
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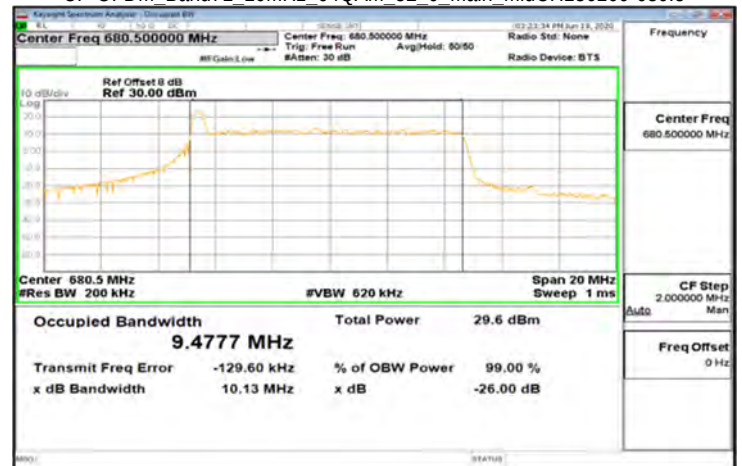
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CP-OFDM_Band71_10MHz_16QAM_52_0_Main_MidCH136100-680.5



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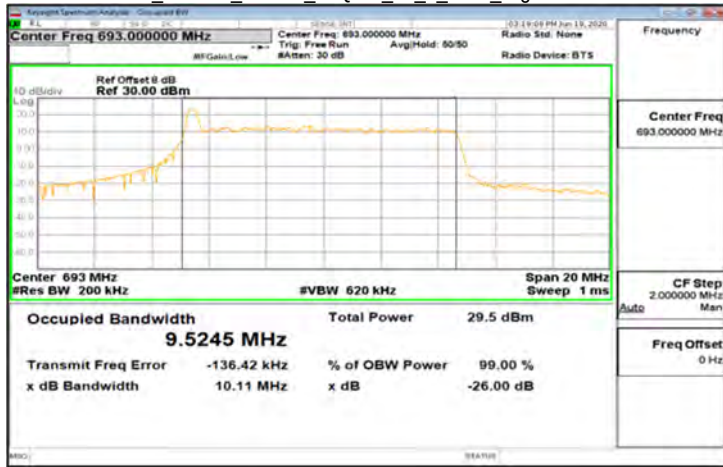


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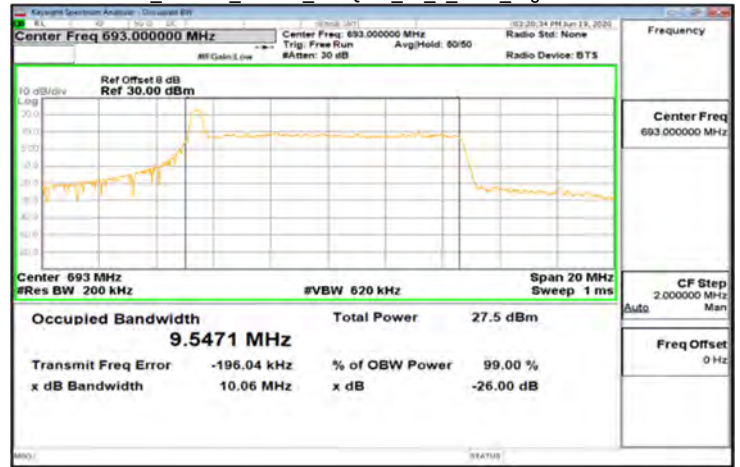
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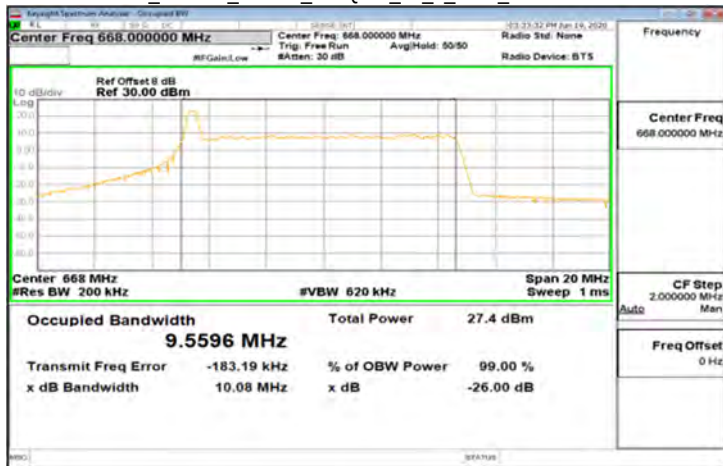
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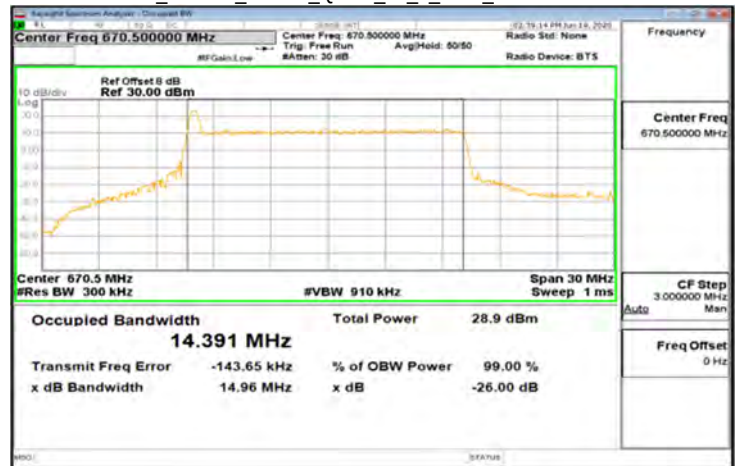
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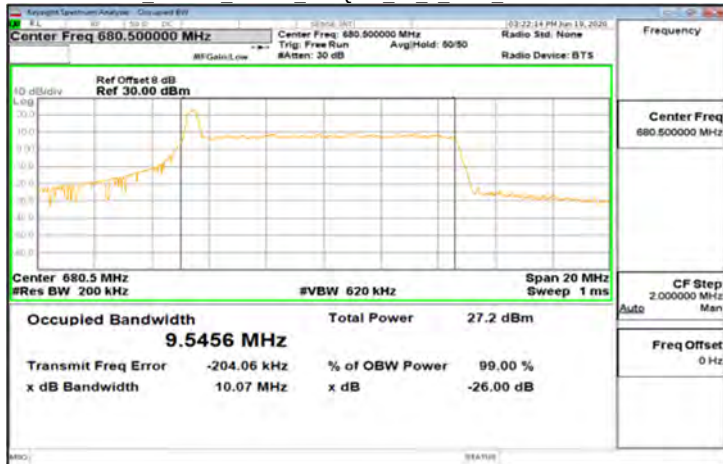
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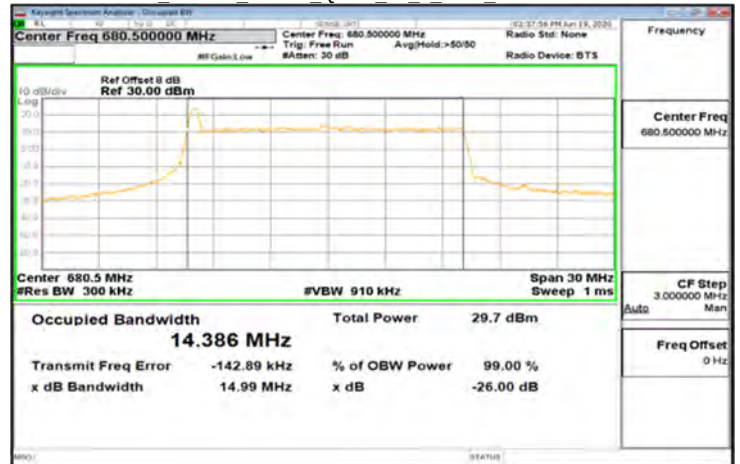
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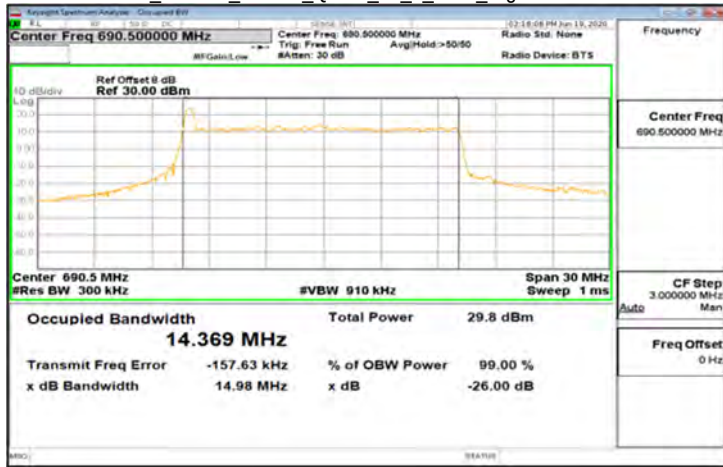


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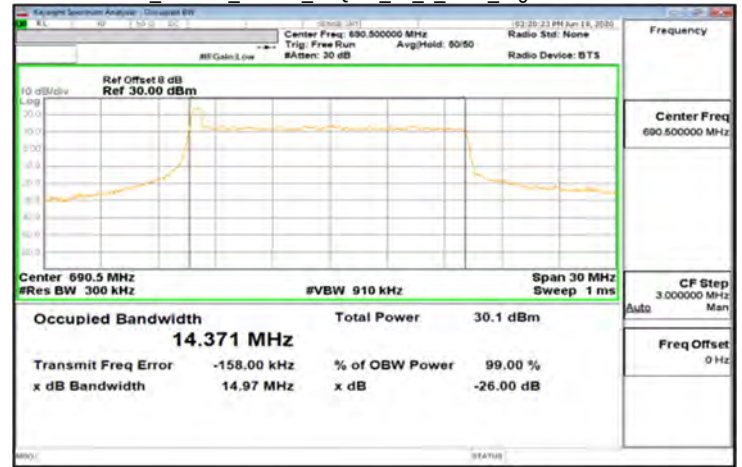
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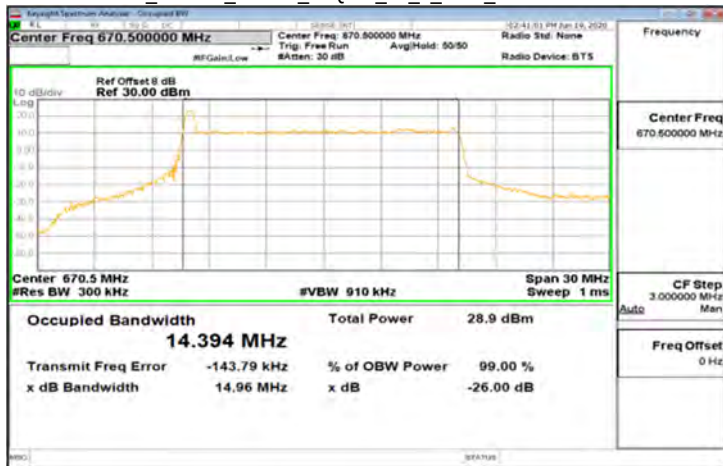
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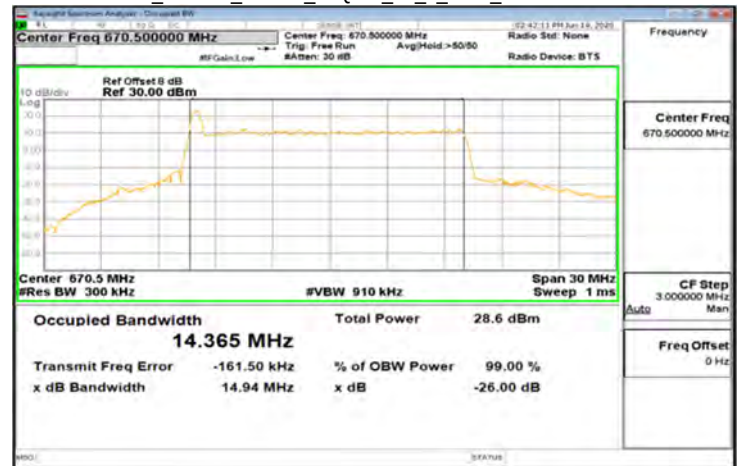
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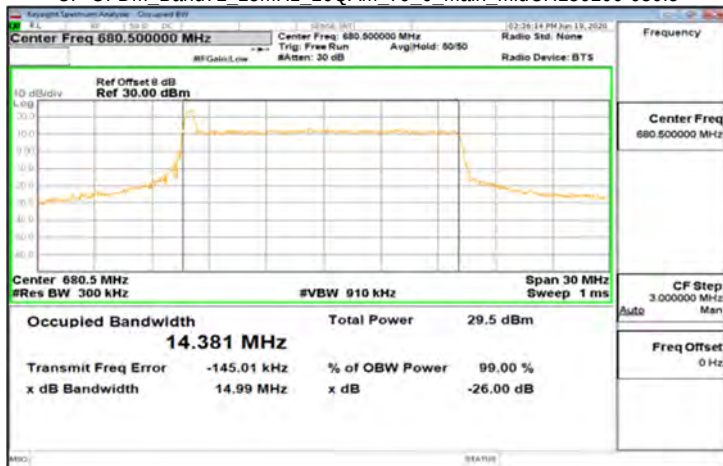
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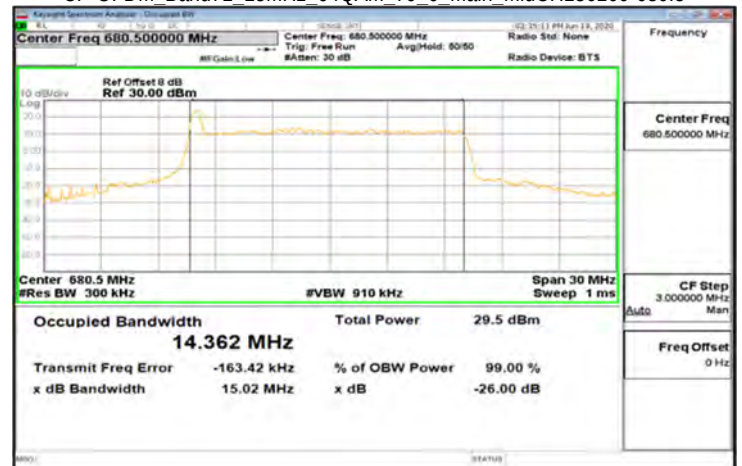
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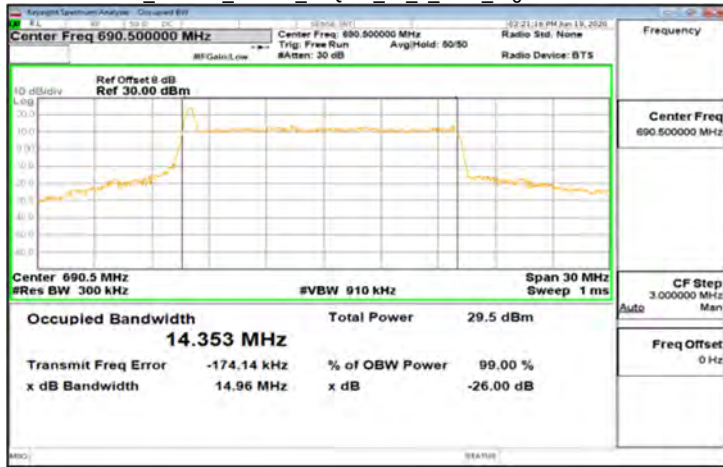


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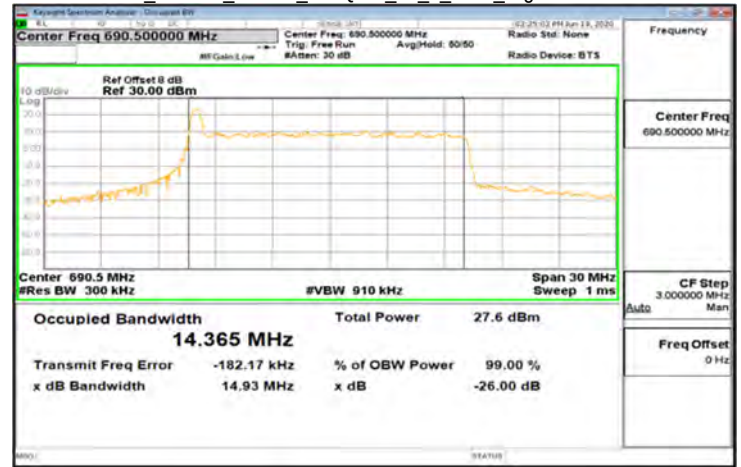
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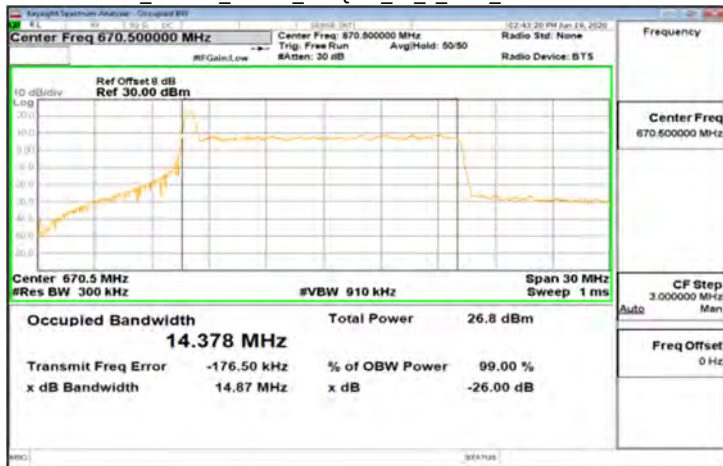
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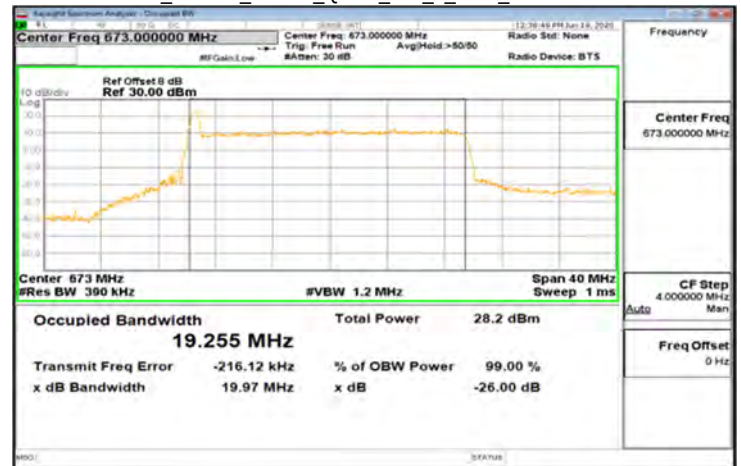
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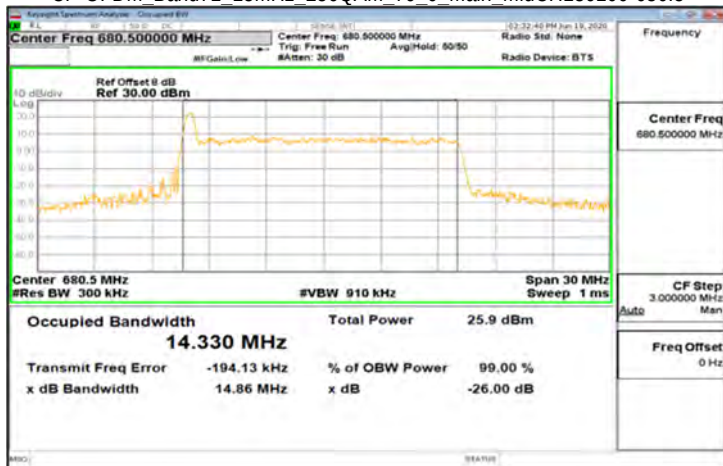
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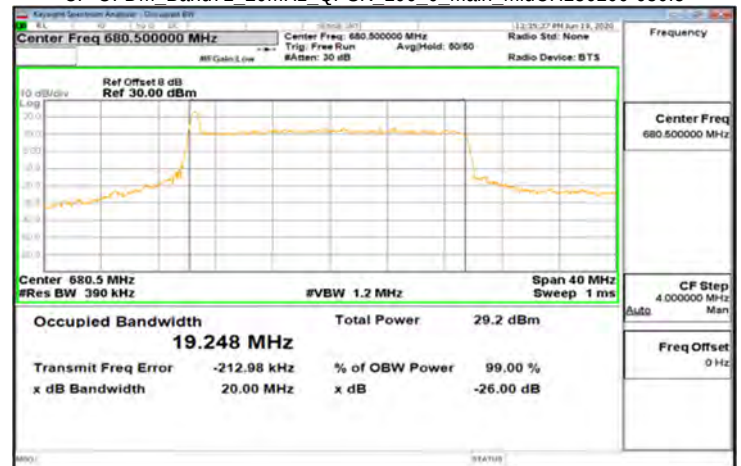
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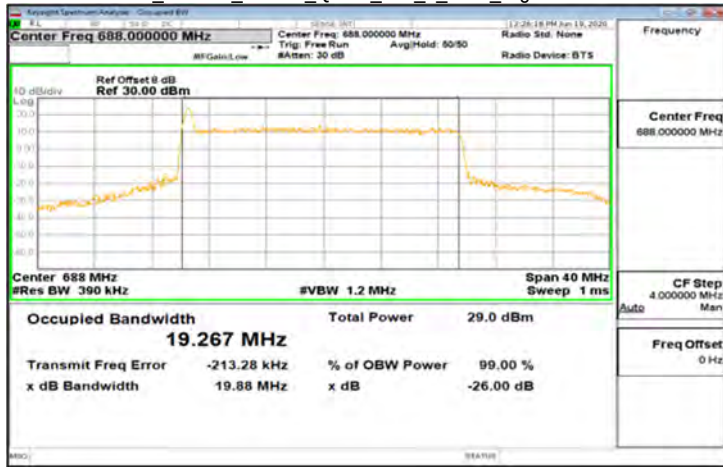


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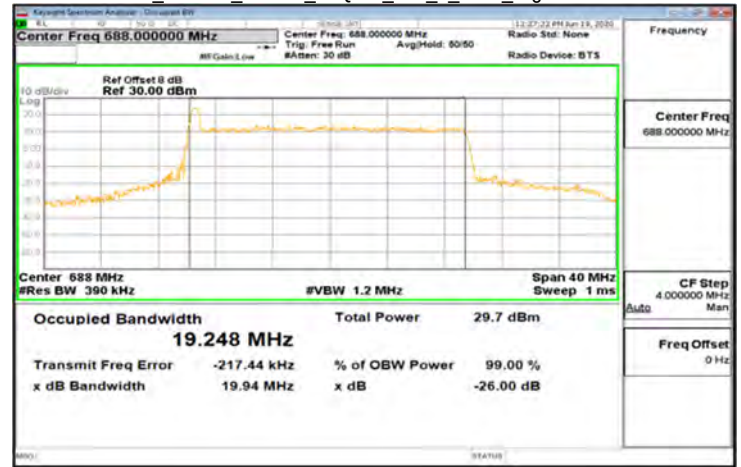
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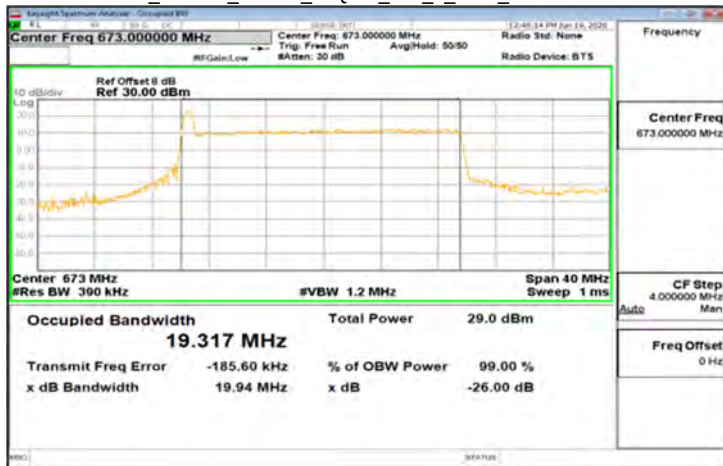
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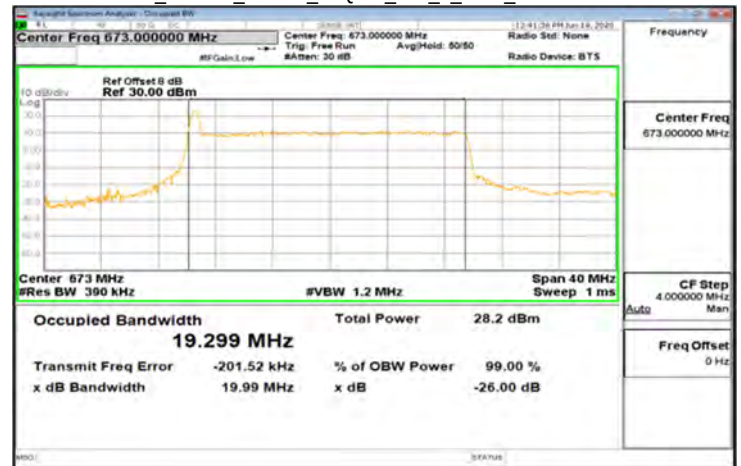
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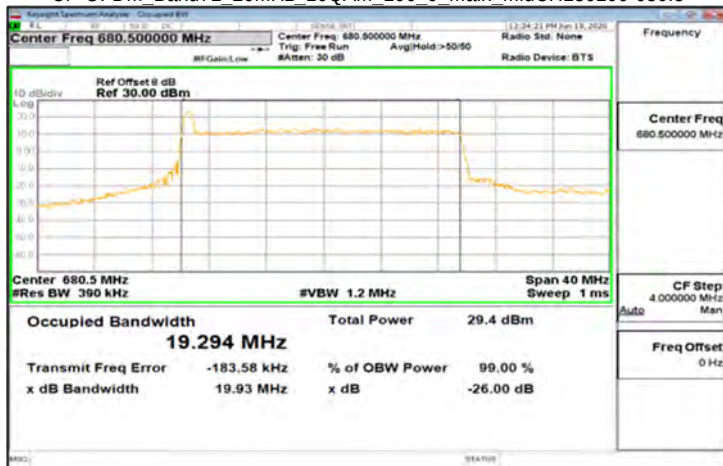
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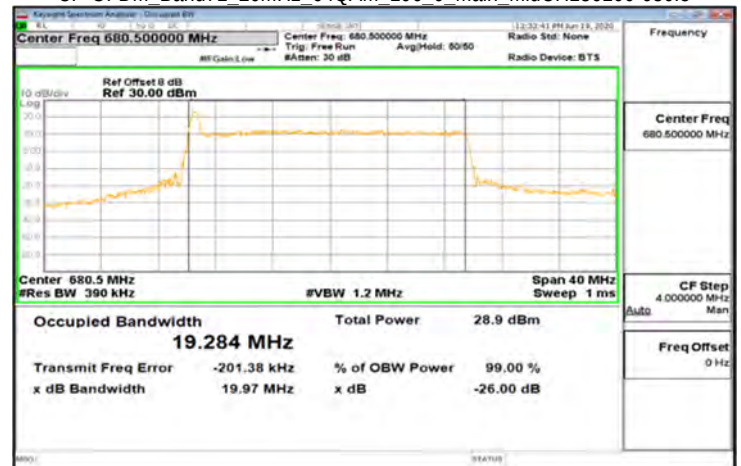
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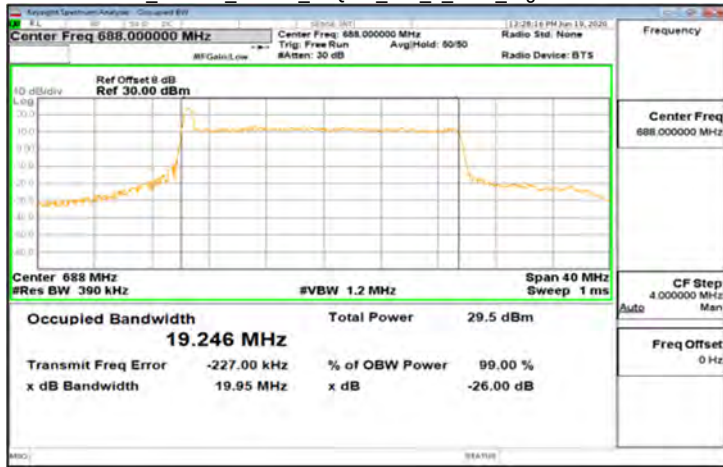


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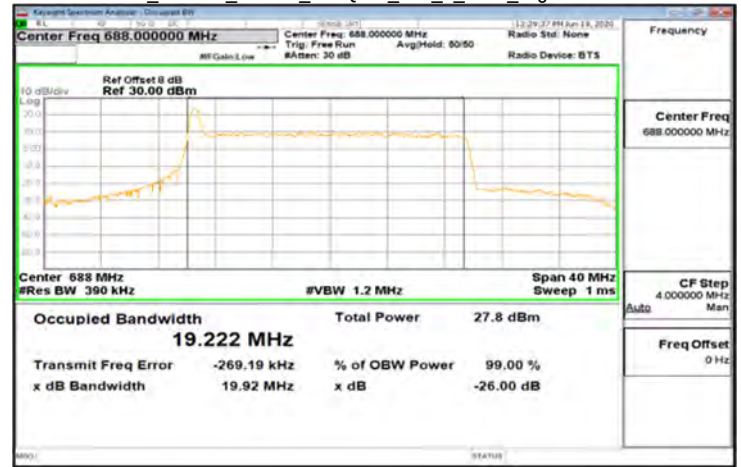
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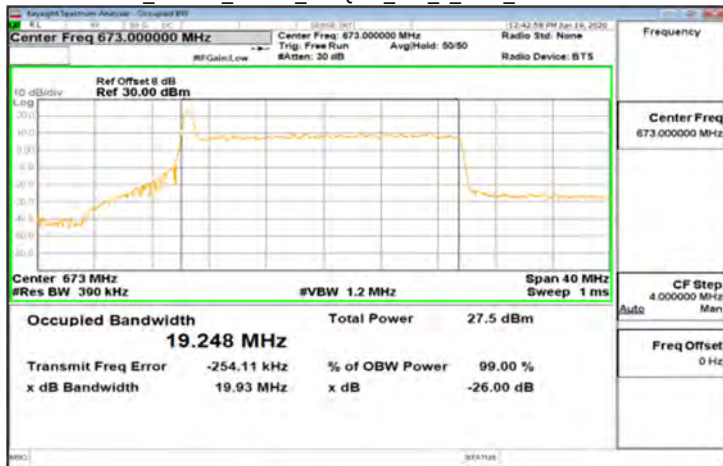
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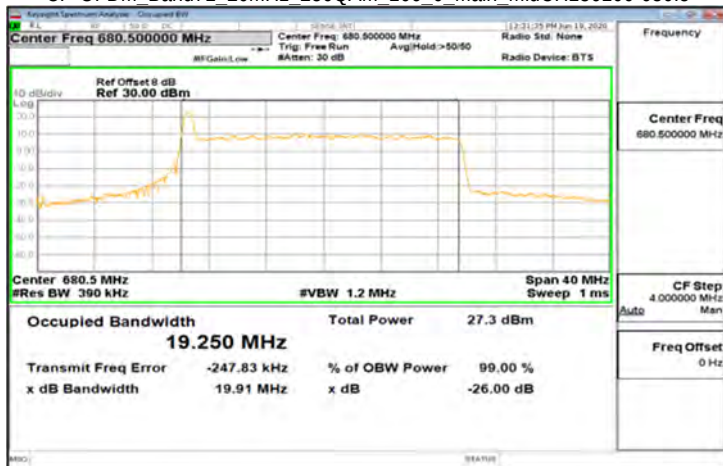
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CP-OFDM_Band71_20MHz_256QAM_106_0_Main_LowCH134600-673



CP-OFDM_Band71_20MHz_256QAM_106_0_Main_MidCH136100-680.5



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8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.5, RSS-130 §6.6, RSS-199 §4.5

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(c) (5) & FCC §27.53(g) for LTE B71

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.

ISED RSS-130 §4.7.1 for LTE B71

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 LTE B4, 66

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.

RSS-139 §6.6 for LTE B4, 66

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

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FCC §27.53(m) (4) (6) for LTE B41

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

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

RSS-199 §4.5 for LTE B41

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

$40 + 10 \log_{10} p$ from the channel edges to 5 MHz away

$43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and

$55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges

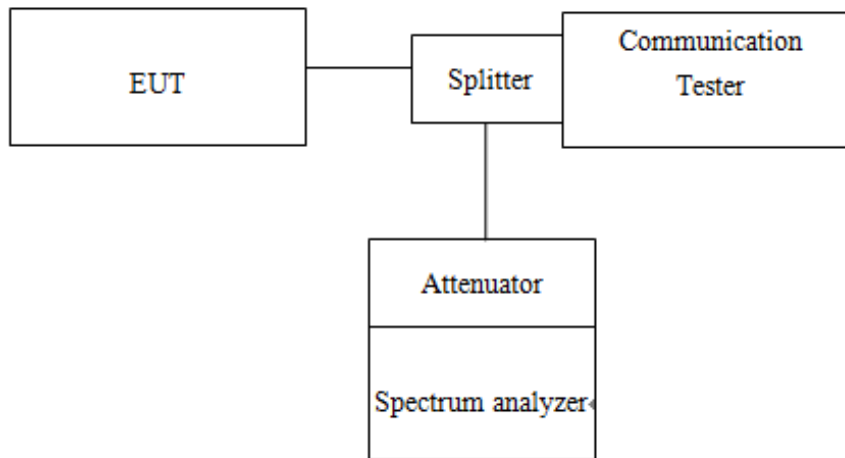
In addition, the attenuation shall not be less than $43 + 10 \log_{10} p$ on all frequencies between 2490.5 MHz and 2496 MHz, and $55 + 10 \log_{10} p$ at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

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8.2 Test SET-UP



8.3 Measurement Procedure

8.3.1 Conducted Emission

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

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

8.3.2 Band Edge or Mask

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting $RBW \geq 1\% \text{ EBW}$.
3. The only N41 Band used RBW offset method and describe in C63.26 section 5.7.2 the correction factor is following:

$$\text{Correction factor} = 10 \log \left[\frac{\text{reference bandwidth 1MHz}}{\text{measurement bandwidth 100KHz}} \right] = 10\text{dB}$$

4. Allow trace to fully stabilize
5. Repeat above procedures until all default test channel measured were complete.

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8.4 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/16/2019	12/15/2020
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-LAMBDA	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

8.5 Measurement Result:

Refer to next pages.

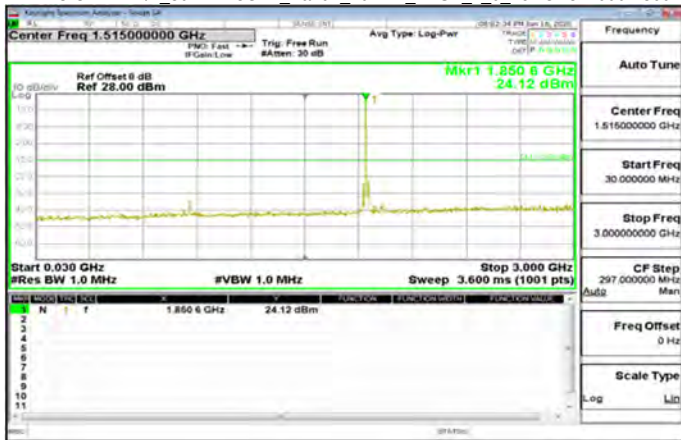
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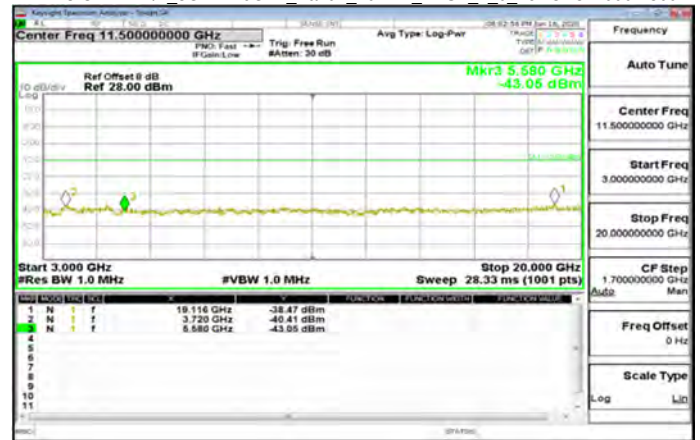
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Out of Band Emission

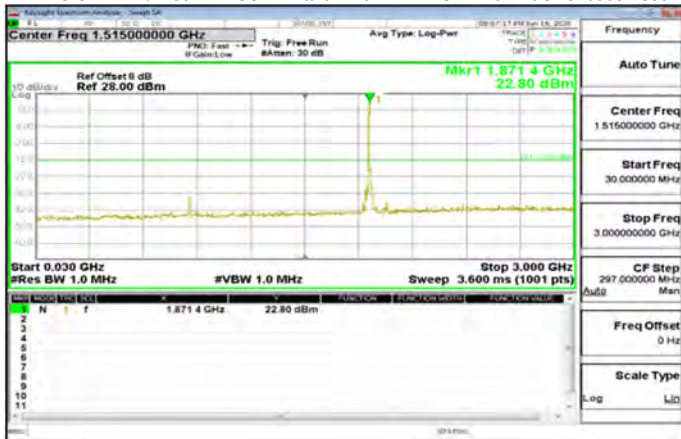
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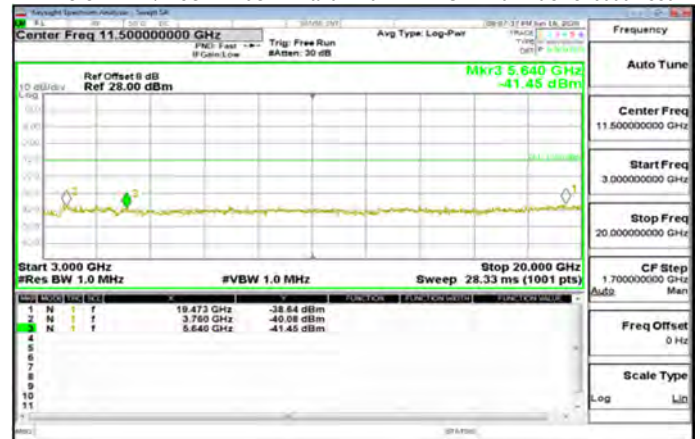
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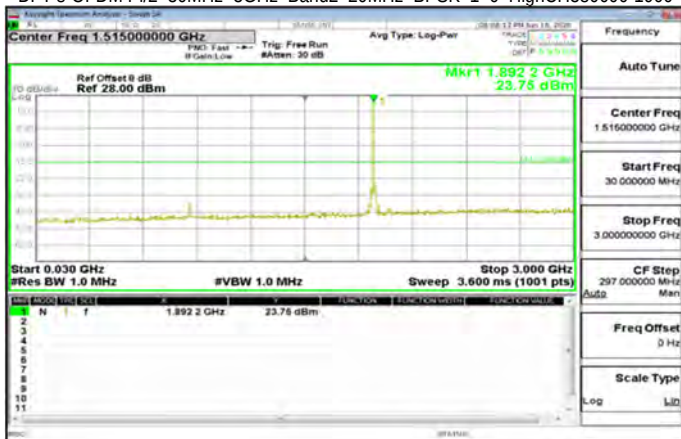
DFT-s-OFDM Pi/2_30MHz~3GHz_Band2_20MHz_BPSK_1_0_MidCH376000-1880



DFT-s-OFDM Pi/2_3GHz~26GHz_Band2_20MHz_BPSK_1_0_MidCH376000-1880



DFT-s-OFDM Pi/2_30MHz~3GHz_Band2_20MHz_BPSK_1_0_HighCH380000-1900



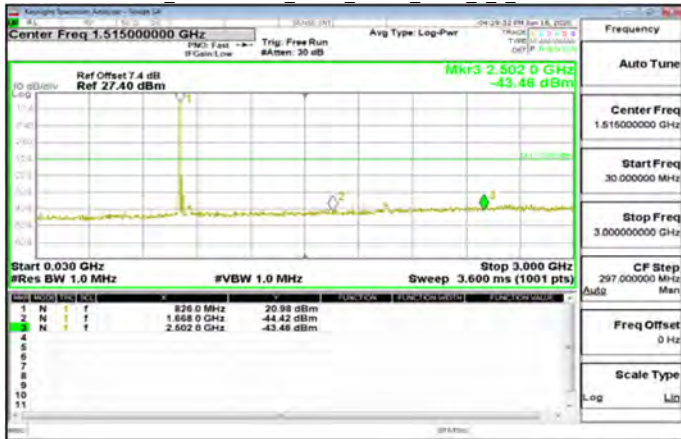
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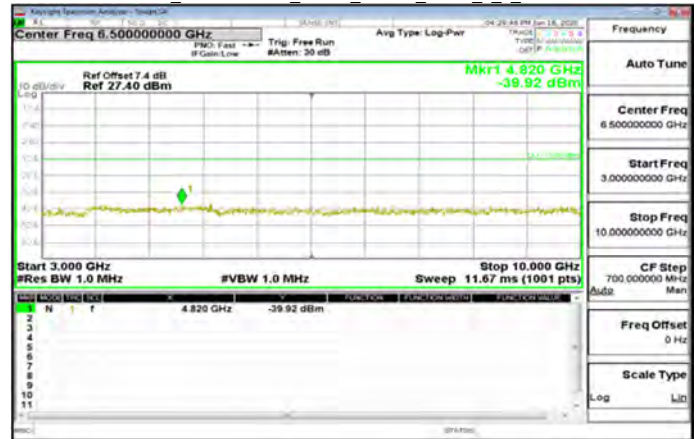
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DFT-s-OFDM Pi/2 30MHz~3GHz_Band5 20MHz_BPSK 1_0 LowCH166800-834



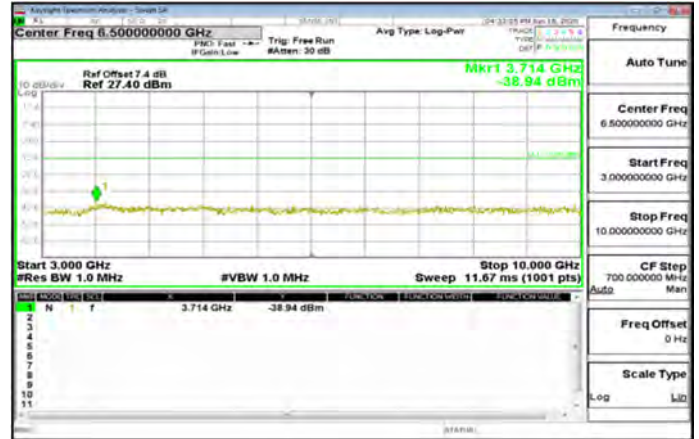
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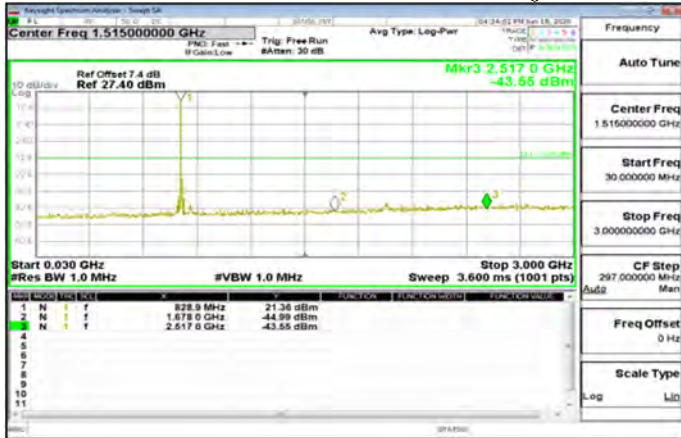
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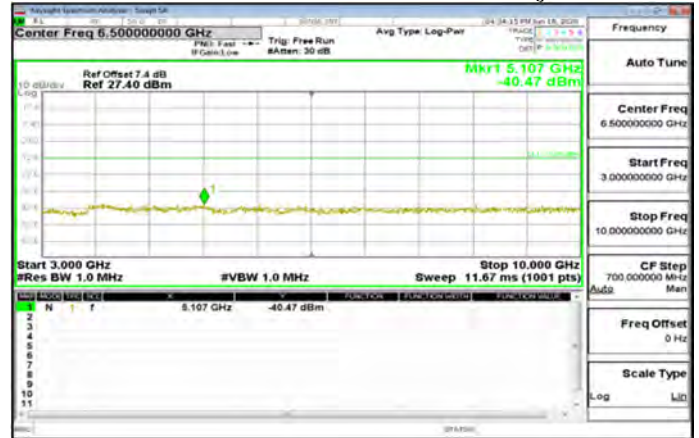
DFT-s-OFDM Pi/2 3GHz~26GHz_Band5 20MHz_BPSK 1_0 MidCH167300-836.5



DFT-s-OFDM Pi/2 30MHz~3GHz_Band5 20MHz_BPSK 1_0 HighCH167800-839



DFT-s-OFDM Pi/2 3GHz~26GHz_Band5 20MHz_BPSK 1_0 HighCH167800-839

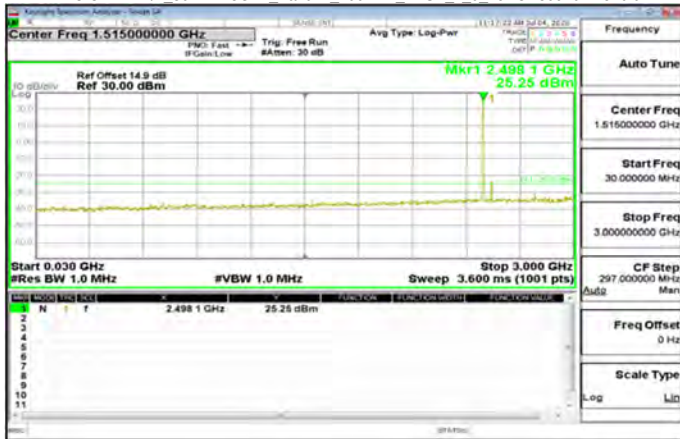


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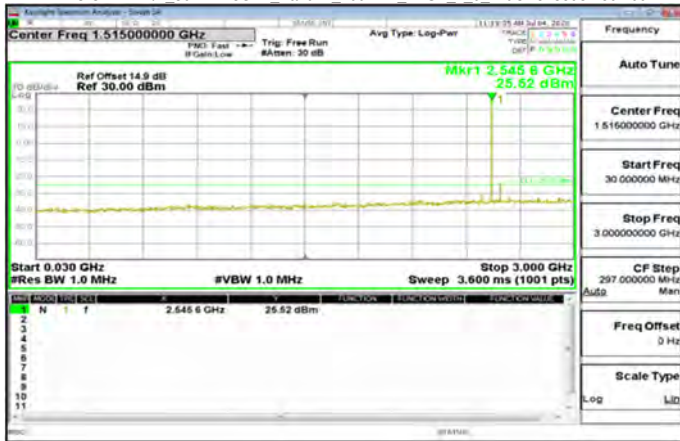
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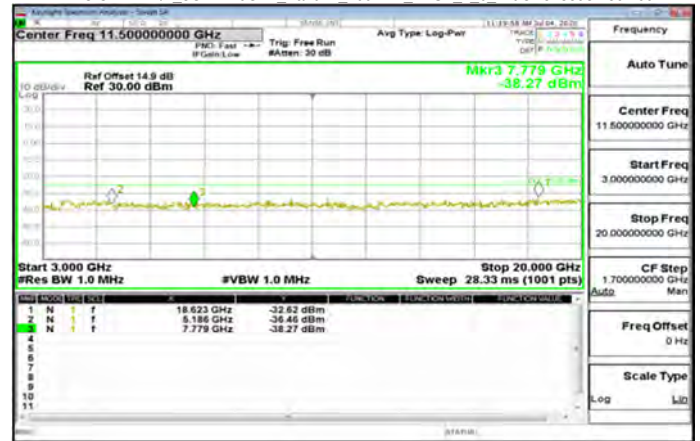
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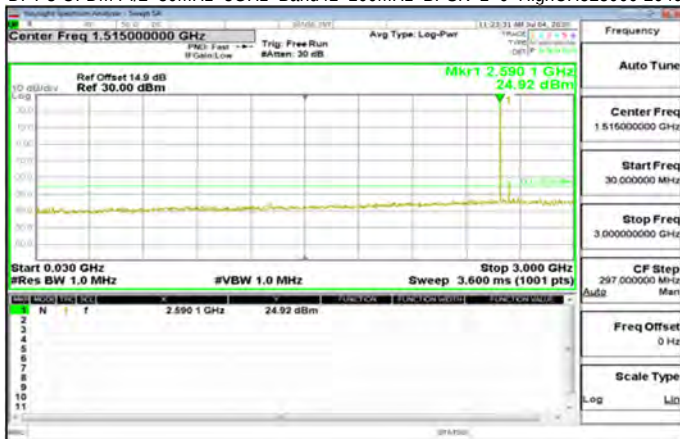
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DFT-s-OFDM Pi/2 3GHz~26GHz Band41 100MHz BPSK 1 0 MidCH518598-2592.99



DFT-s-OFDM Pi/2 30MHz~3GHz Band41 100MHz BPSK 1 0 HighCH528000-2640



DFT-s-OFDM Pi/2 3GHz~26GHz Band41 100MHz BPSK 1 0 HighCH528000-2640

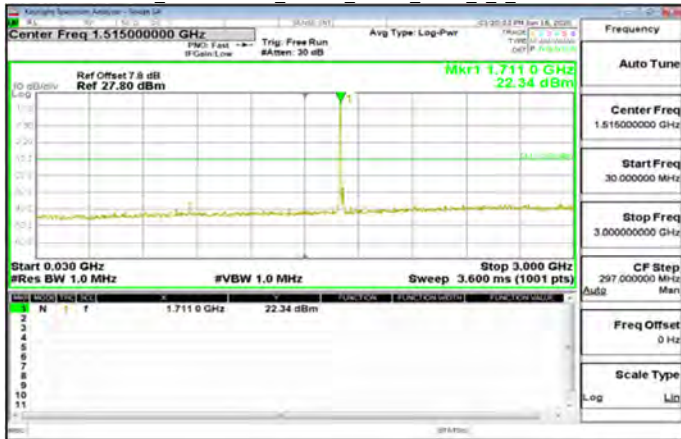


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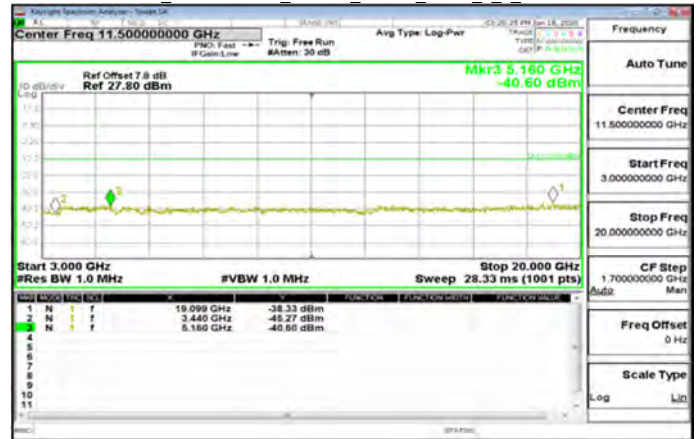
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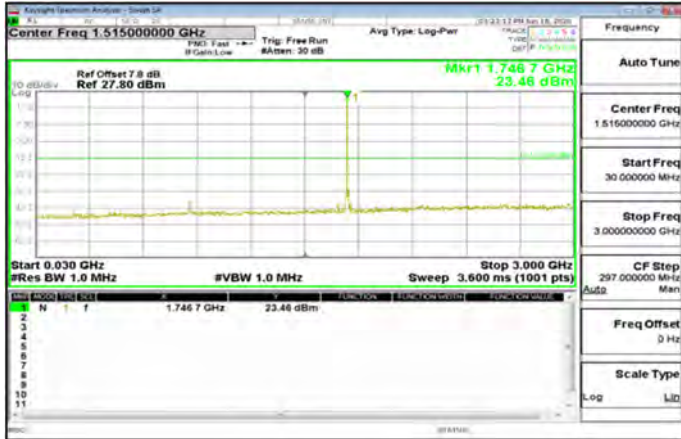
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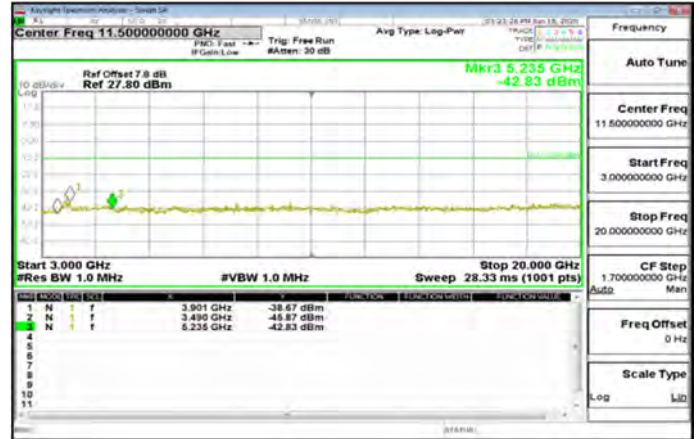
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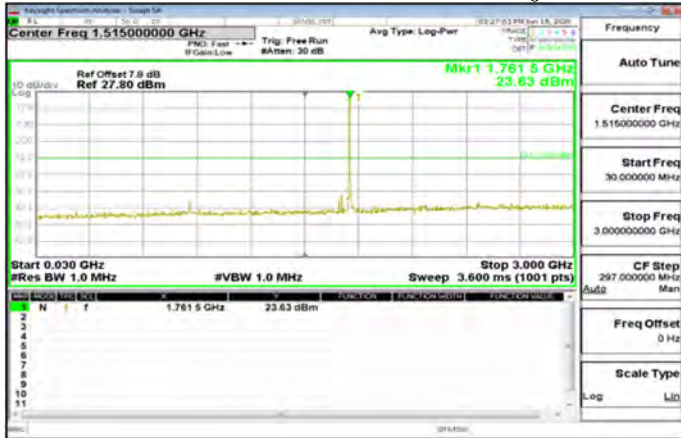
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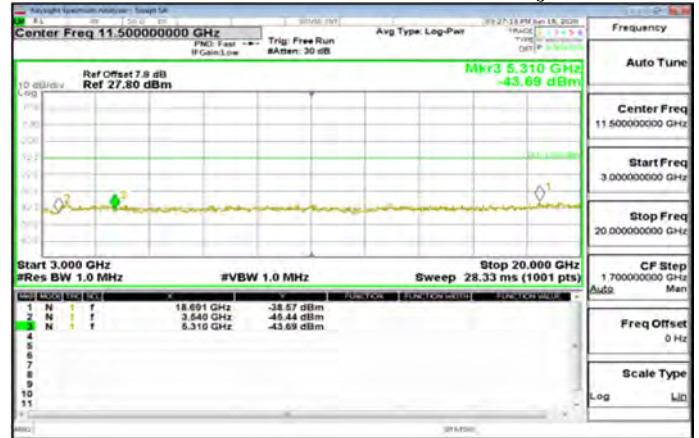
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DFT-s-OFDM Pi/2 30MHz~3GHz Band66 20MHz BPSK 1 0 HighCH354000-1770



DFT-s-OFDM Pi/2 3GHz~26GHz Band66 20MHz BPSK 1 0 HighCH354000-1770

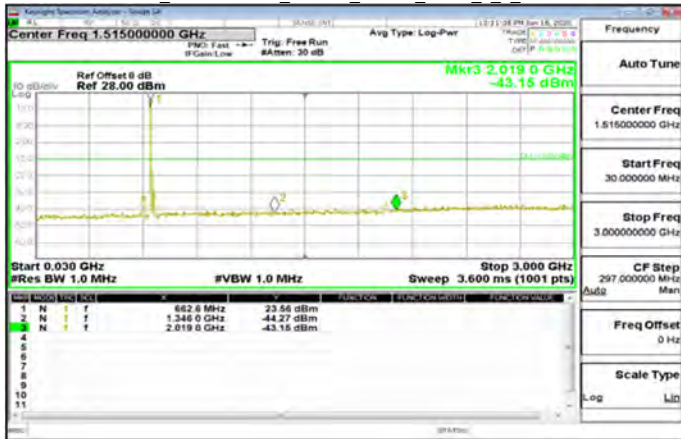


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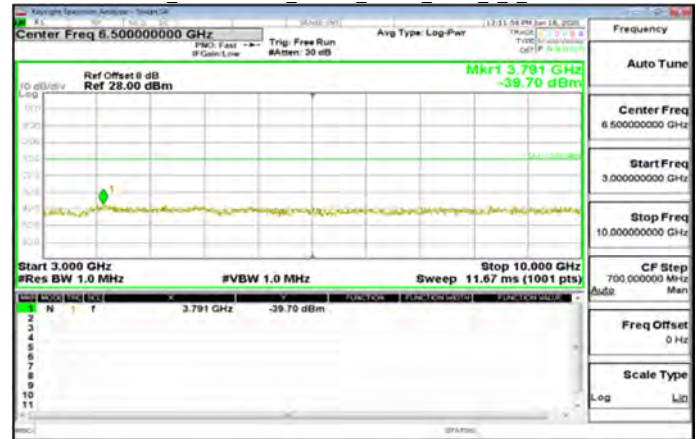
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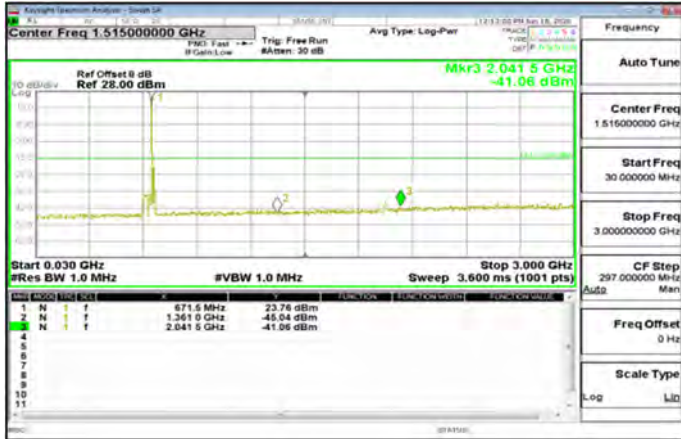
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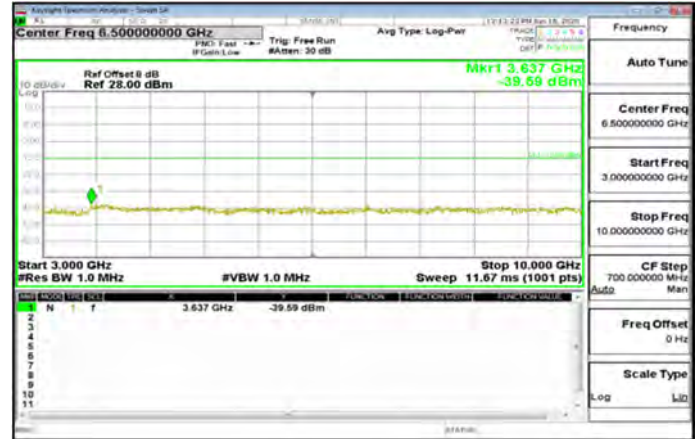
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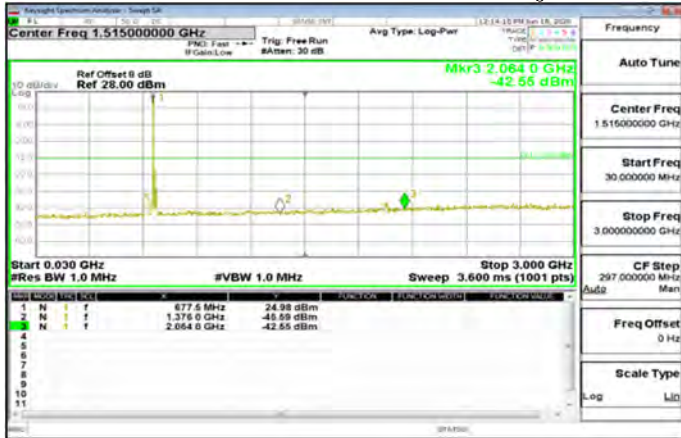
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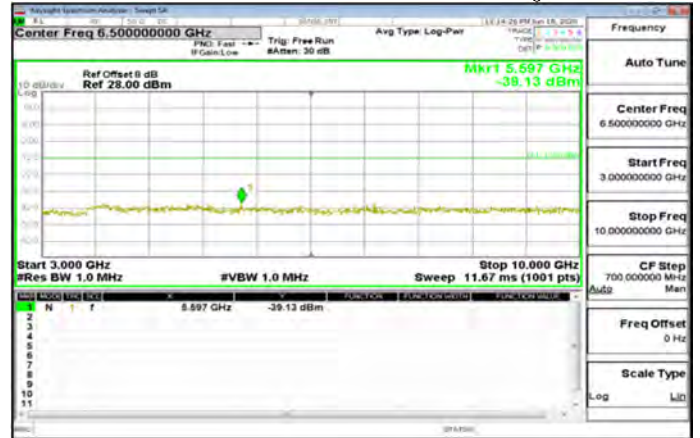
DFT-s-OFDM Pi/2 3GHz~26GHz Band71 20MHz BPSK 1 0 MidCH136100-680.5



DFT-s-OFDM Pi/2 30MHz~3GHz Band71 20MHz BPSK 1 0 HighCH137600-688



DFT-s-OFDM Pi/2 3GHz~26GHz Band71 20MHz BPSK 1 0 HighCH137600-688



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Band Edge

DFT-s-OFDM Pi/2_Band2_5MHz_BPSK_1_0_LowCH370500-1852.5



DFT-s-OFDM Pi/2_Band2_5MHz_BPSK_25_0_HighCH381500-1907.5



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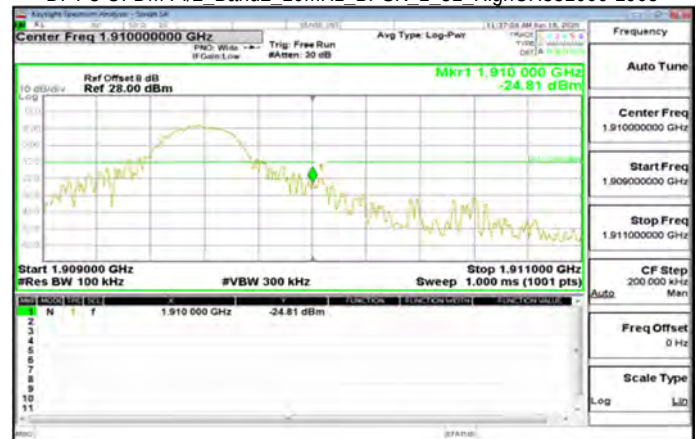
DFT-s-OFDM Pi/2_Band2_10MHz_BPSK_1_0_LowCH371000-1855



DFT-s-OFDM Pi/2_Band2_5MHz_BPSK_25_0_LowCH370500-1852.5



DFT-s-OFDM Pi/2_Band2_10MHz_BPSK_1_51_HighCH381000-1905



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DFT-s-OFDM Pi/2_Band2_10MHz_BPSK_50_0_LowCH371000-1855



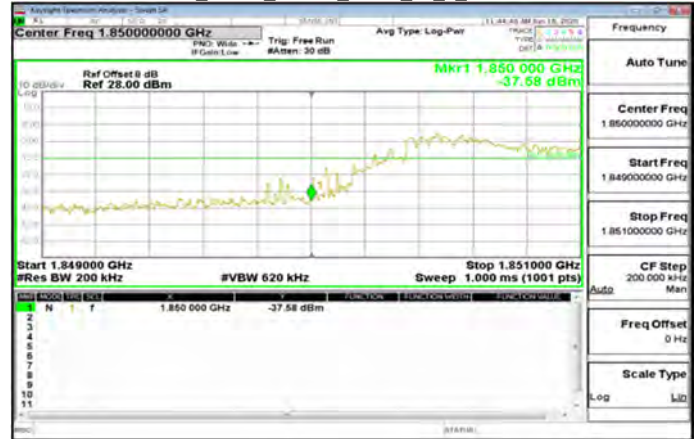
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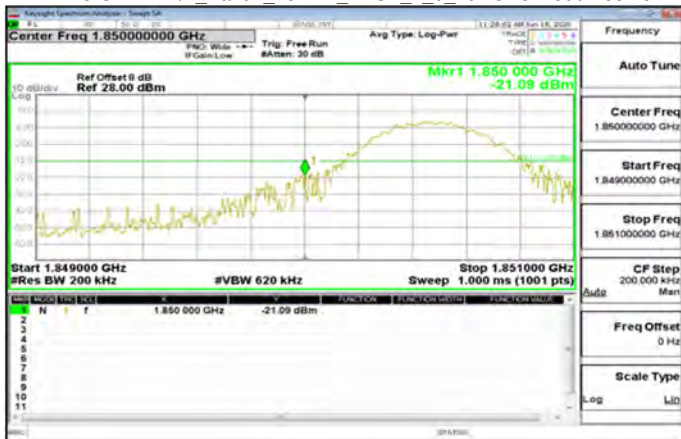
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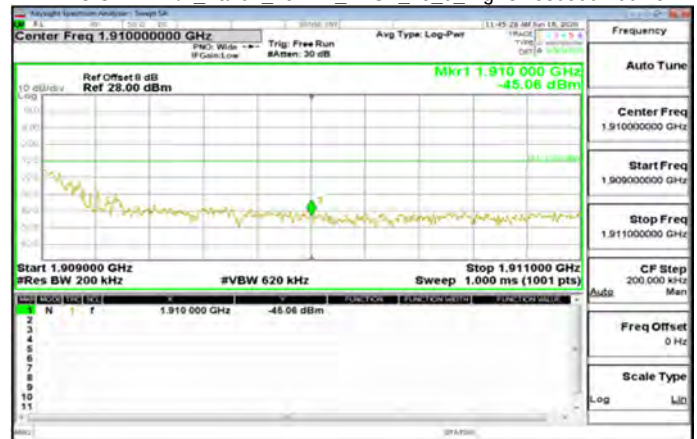
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DFT-s-OFDM Pi/2_Band2_15MHz_BPSK_1_0_LowCH371500-1857.5



DFT-s-OFDM Pi/2_Band2_15MHz_BPSK_75_0_HighCH380500-1902.5



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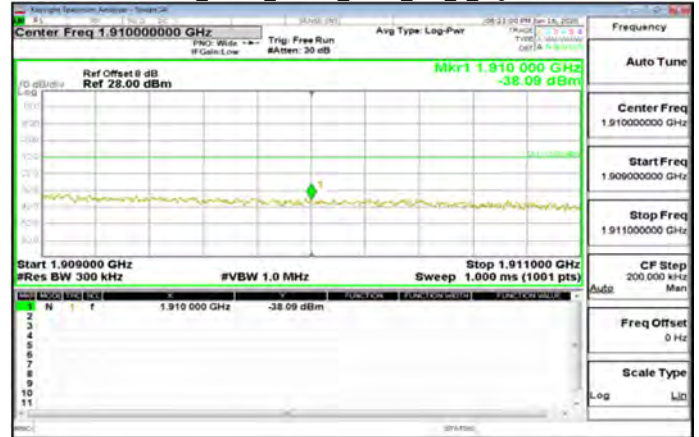
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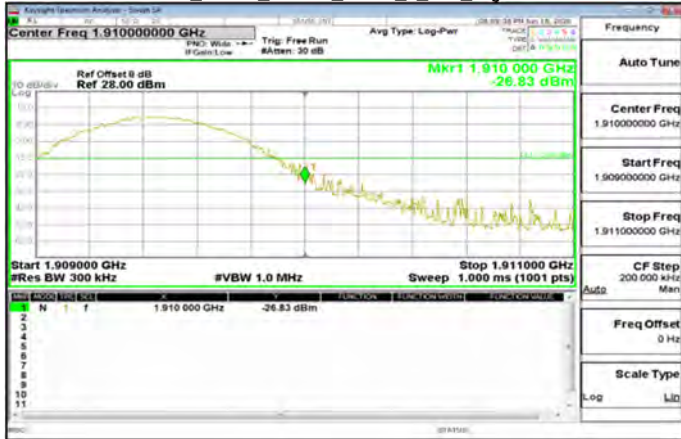
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DFT-s-OFDM Pi/2_Band2_20MHz_BPSK_100_0_HighCH380000-1900



DFT-s-OFDM Pi/2_Band2_20MHz_BPSK_1_105_HighCH380000-1900



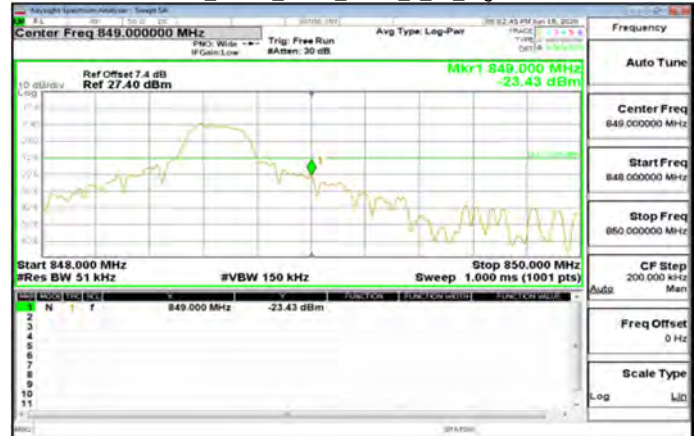
DFT-s-OFDM Pi/2_Band5_5MHz_BPSK_1_0_LowCH165300-826.5



DFT-s-OFDM Pi/2_Band2_20MHz_BPSK_100_0_LowCH372000-1860



DFT-s-OFDM Pi/2_Band5_5MHz_BPSK_1_24_HighCH169300-846.5



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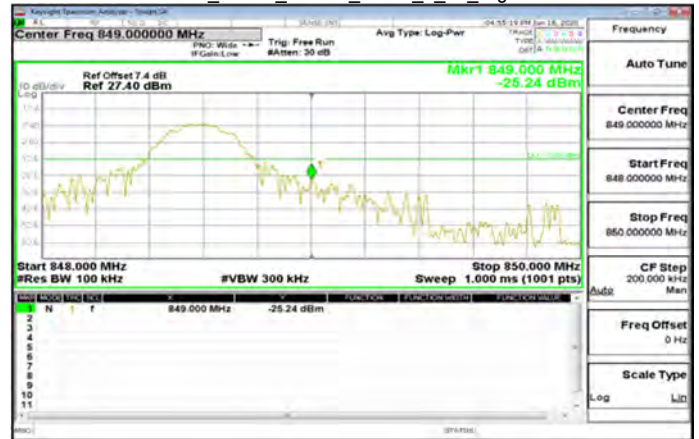
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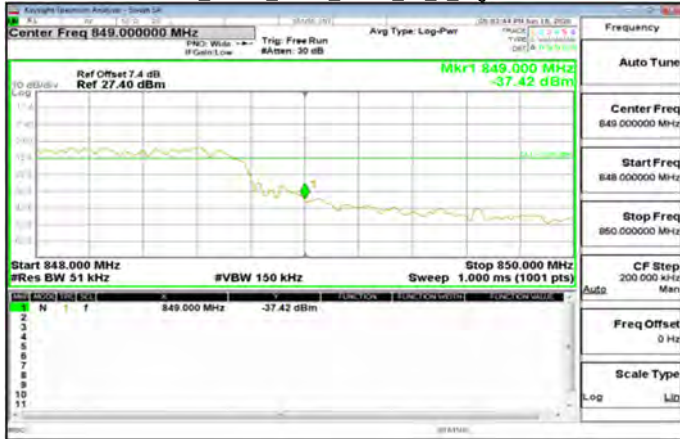
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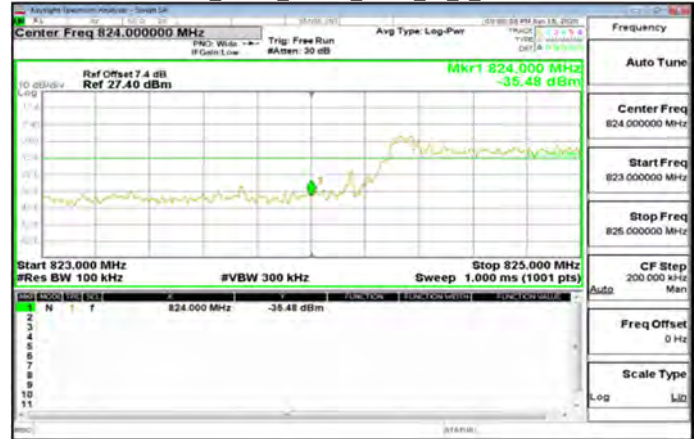
DFT-s-OFDM Pi/2_Band5_10MHz_BPSK_1_51_HighCH168800-844



DFT-s-OFDM Pi/2_Band5_5MHz_BPSK_25_0_HighCH169300-846.5



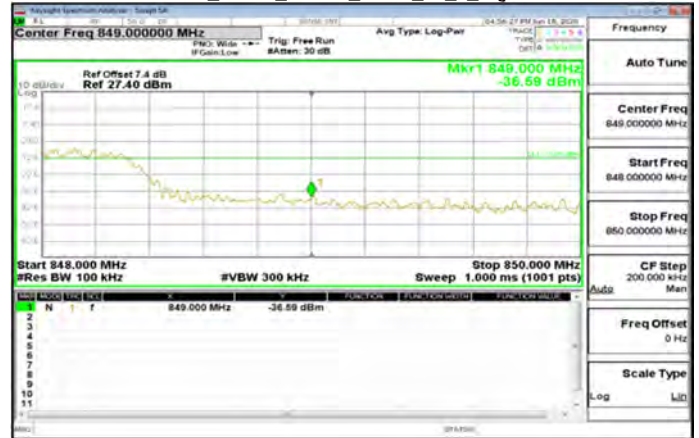
DFT-s-OFDM Pi/2_Band5_10MHz_BPSK_50_0_LowCH165800-829



DFT-s-OFDM Pi/2_Band5_10MHz_BPSK_1_0_LowCH165800-829



DFT-s-OFDM Pi/2_Band5_10MHz_BPSK_50_0_HighCH168800-844



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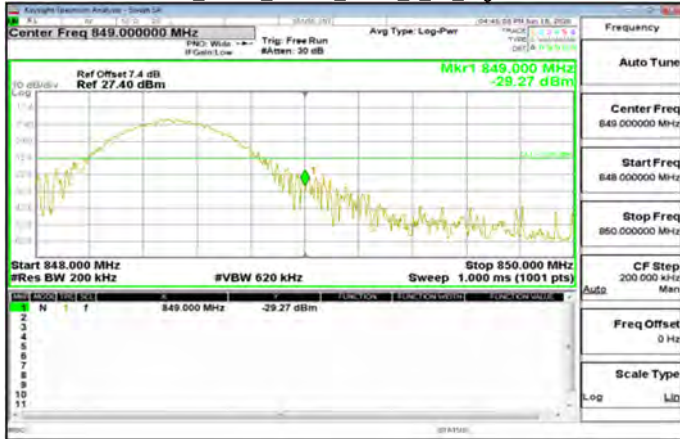
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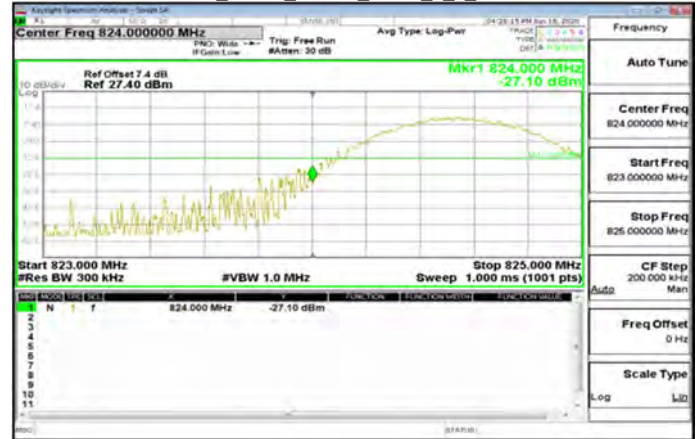
DFT-s-OFDM Pi/2_Band5_15MHz_BPSK_75_0_HighCH168300-841.5



DFT-s-OFDM Pi/2_Band5_15MHz_BPSK_1_78_HighCH168300-841.5



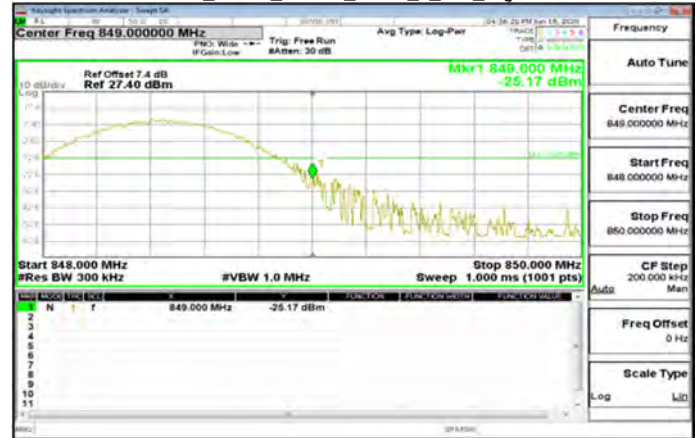
DFT-s-OFDM Pi/2_Band5_20MHz_BPSK_1_0_LowCH166800-834



DFT-s-OFDM Pi/2_Band5_15MHz_BPSK_75_0_LowCH166300-831.5



DFT-s-OFDM Pi/2_Band5_20MHz_BPSK_1_105_HighCH167800-839

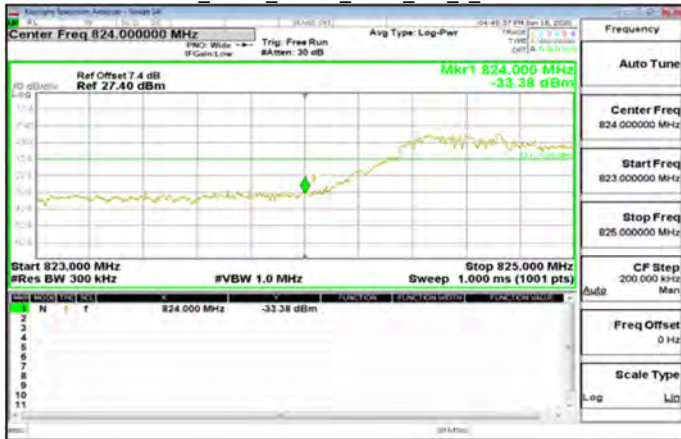


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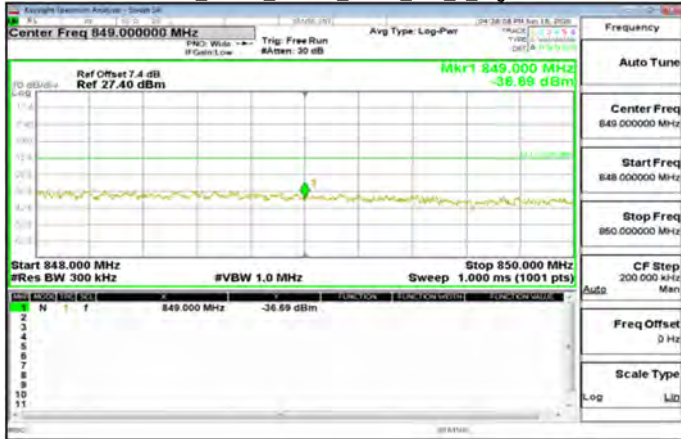
DFT-s-OFDM Pi/2_Band5_20MHz_BPSK_100_0_LowCH166800-834



DFT-s-OFDM Pi/2_Band66_5MHz_BPSK_1_24_HighCH355500-1777.5



DFT-s-OFDM Pi/2_Band5_20MHz_BPSK_100_0_HighCH167800-839



DFT-s-OFDM Pi/2_Band66_5MHz_BPSK_25_0_LowCH342500-1712.5



DFT-s-OFDM Pi/2_Band66_5MHz_BPSK_1_0_LowCH342500-1712.5



DFT-s-OFDM Pi/2_Band66_5MHz_BPSK_25_0_HighCH355500-1777.5



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DFT-s-OFDM Pi/2_Band66_10MHz_BPSK_1_0_LowCH343000-1715



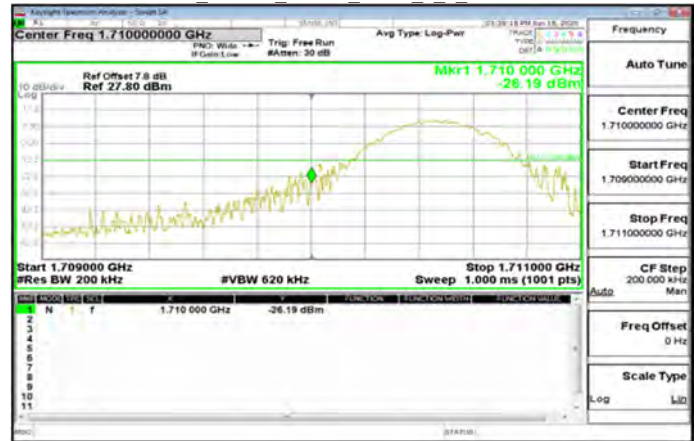
DFT-s-OFDM Pi/2_Band66_10MHz_BPSK_50_0_HighCH355000-1775



DFT-s-OFDM Pi/2_Band66_10MHz_BPSK_1_51_HighCH355000-1775



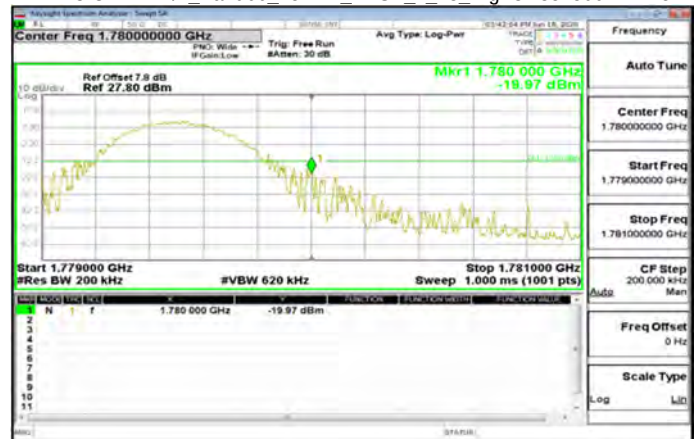
DFT-s-OFDM Pi/2_Band66_15MHz_BPSK_1_0_LowCH343500-1717.5



DFT-s-OFDM Pi/2_Band66_10MHz_BPSK_50_0_LowCH343000-1715



DFT-s-OFDM Pi/2_Band66_15MHz_BPSK_1_78_HighCH354500-1772.5



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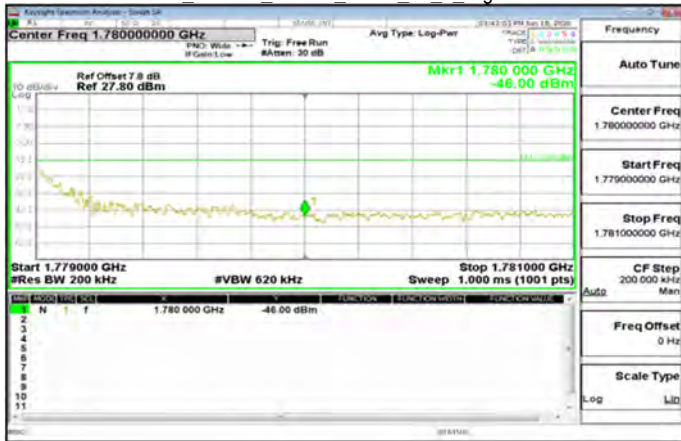
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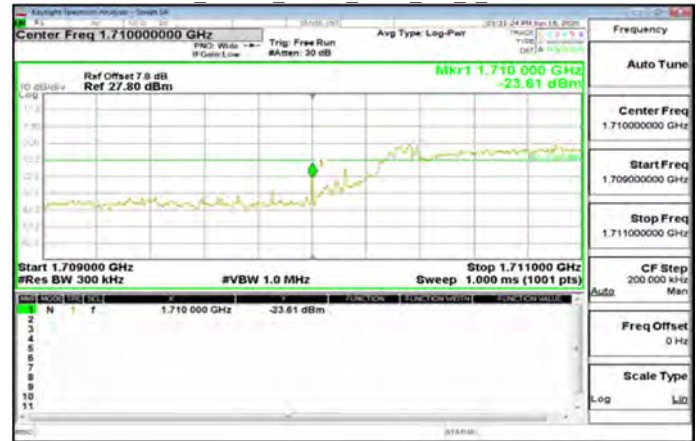
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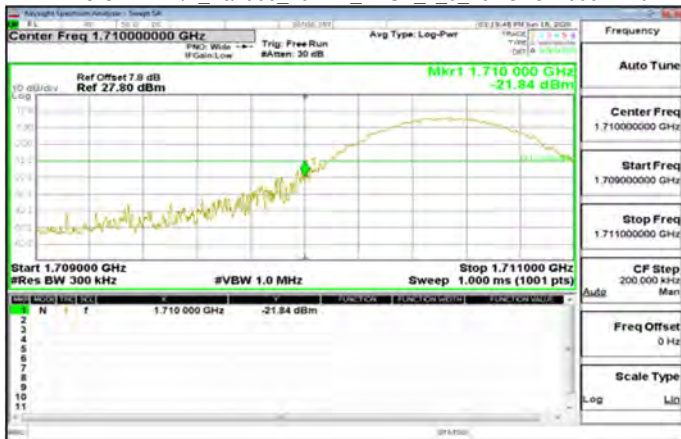
DFT-s-OFDM Pi/2_Band66_15MHz_BPSK_75_0_HighCH354500-1772.5



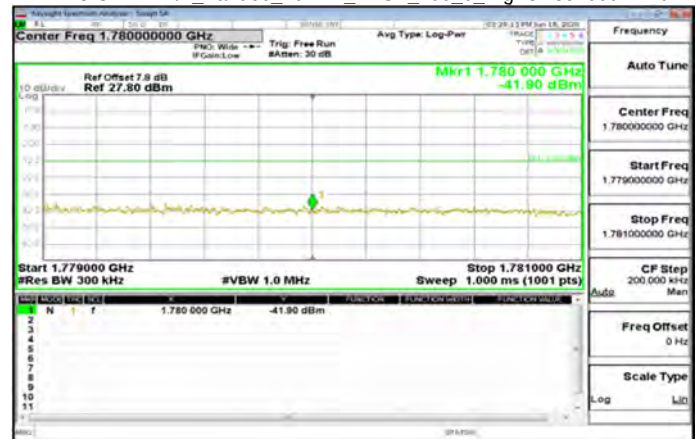
DFT-s-OFDM Pi/2_Band66_20MHz_BPSK_100_0_LowCH344000-1720



DFT-s-OFDM Pi/2_Band66_20MHz_BPSK_1_0_LowCH344000-1720



DFT-s-OFDM Pi/2_Band66_20MHz_BPSK_100_0_HighCH354000-1770



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DFT-s-OFDM Pi/2_Band71_5MHz_BPSK_1_0_LowCH133147-665.5



DFT-s-OFDM Pi/2_Band71_5MHz_BPSK_25_0_HighCH139100-695.5



DFT-s-OFDM Pi/2_Band71_5MHz_BPSK_1_24_HighCH139100-695.5



DFT-s-OFDM Pi/2_Band71_10MHz_BPSK_1_0_LowCH133600-668



DFT-s-OFDM Pi/2_Band71_5MHz_BPSK_25_0_LowCH133100-665.5



DFT-s-OFDM Pi/2_Band71_10MHz_BPSK_1_51_HighCH138600-693



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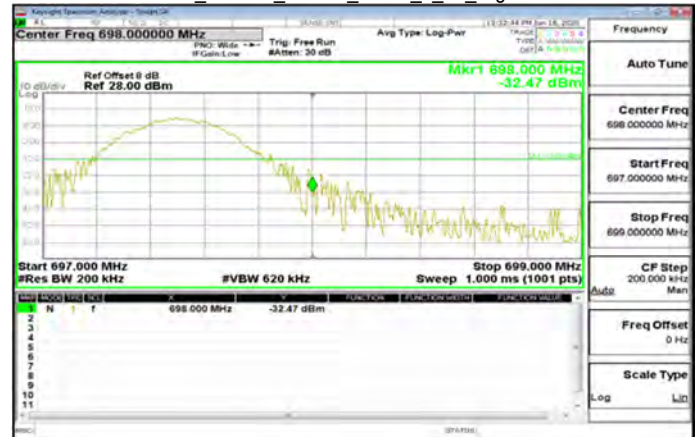
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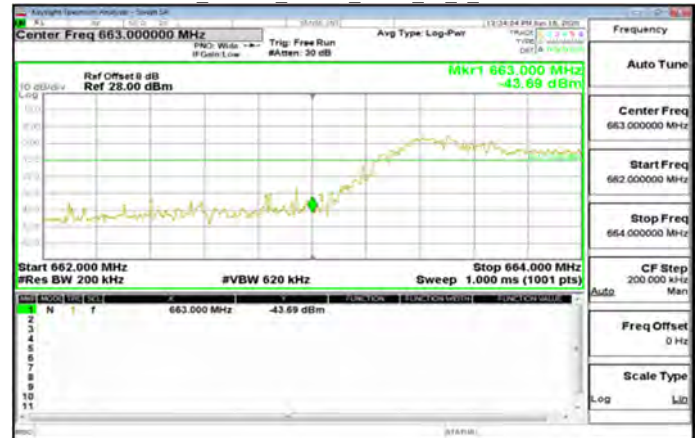
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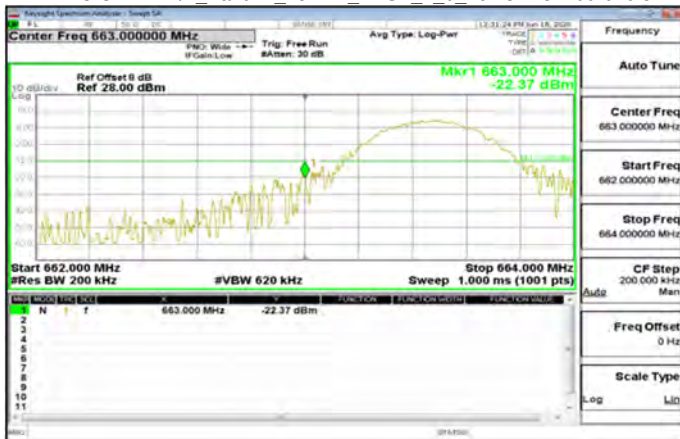
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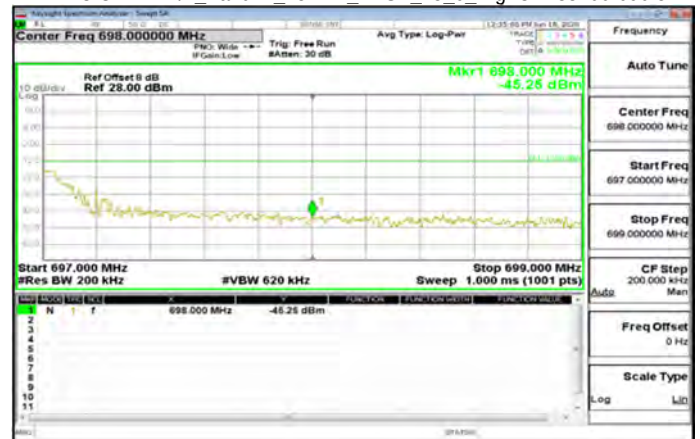
DFT-s-OFDM Pi/2_Band71_15MHz_BPSK_75_0_LowCH134100-670.5



DFT-s-OFDM Pi/2_Band71_15MHz_BPSK_1_0_LowCH134100-670.5



DFT-s-OFDM Pi/2_Band71_15MHz_BPSK_75_0_HighCH138100-690.5



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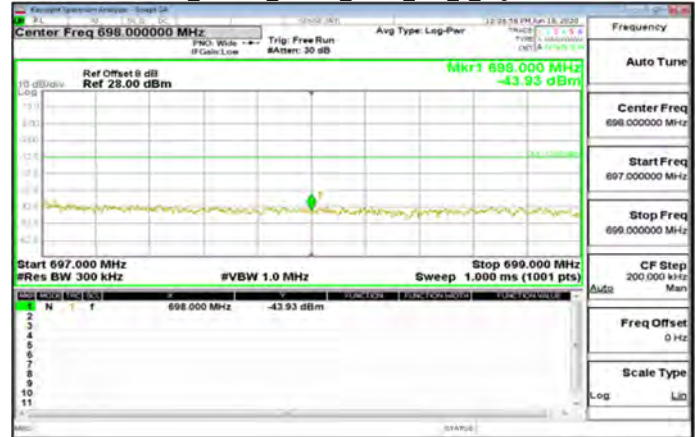
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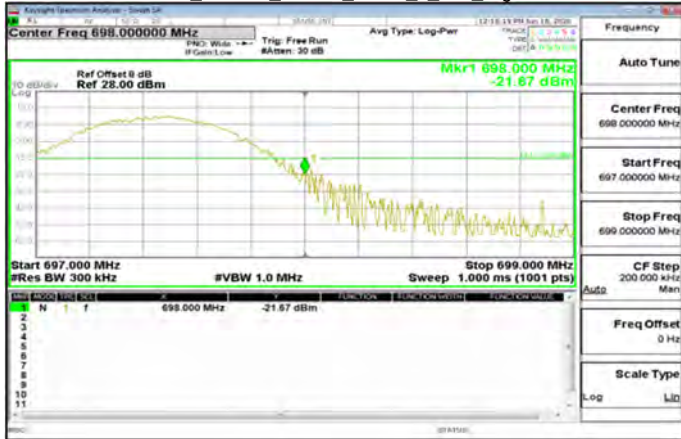
DFT-s-OFDM Pi/2_Band71_20MHz_BPSK_1_0_LowCH134600-673



DFT-s-OFDM Pi/2_Band71_20MHz_BPSK_100_0_HighCH137600-688



DFT-s-OFDM Pi/2_Band71_20MHz_BPSK_1_105_HighCH137600-688



CP-OFDM Band2_5MHz_QPSK_1_0_LowCH370500-1852.5



DFT-s-OFDM Pi/2_Band71_20MHz_BPSK_100_0_LowCH134600-673



CP-OFDM Band2_5MHz_QPSK_1_24_HighCH381500-1907.5



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CP-OFDM_Band2_5MHz_QPSK_25_0_LowCH370500-1852.5



CP-OFDM_Band2_10MHz_QPSK_1_51_HighCH381000-1905



CP-OFDM_Band2_5MHz_QPSK_25_0_HighCH381500-1907.5



CP-OFDM_Band2_10MHz_QPSK_52_0_LowCH371000-1855



CP-OFDM_Band2_10MHz_QPSK_1_0_LowCH371000-1855



CP-OFDM_Band2_10MHz_QPSK_52_0_HighCH381000-1905



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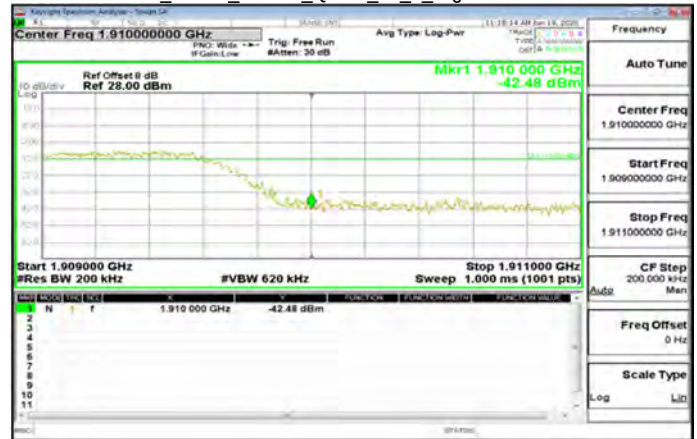
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CP-OFDM Band2_15MHz_QPSK_1_0_LowCH371500-1857.5



CP-OFDM Band2_15MHz_QPSK_79_0_HighCH380500-1902.5



CP-OFDM Band2_15MHz_QPSK_1_78_HighCH380500-1902.5



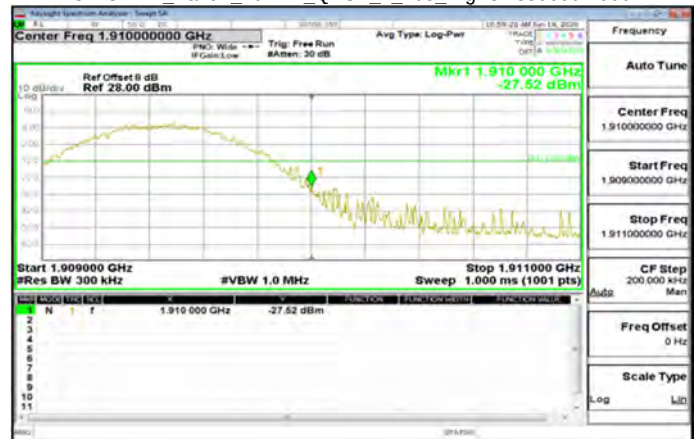
CP-OFDM Band2_20MHz_QPSK_1_0_LowCH372000-1860



CP-OFDM Band2_15MHz_QPSK_79_0_LowCH371500-1857.5



CP-OFDM Band2_20MHz_QPSK_1_105_HighCH380000-1900



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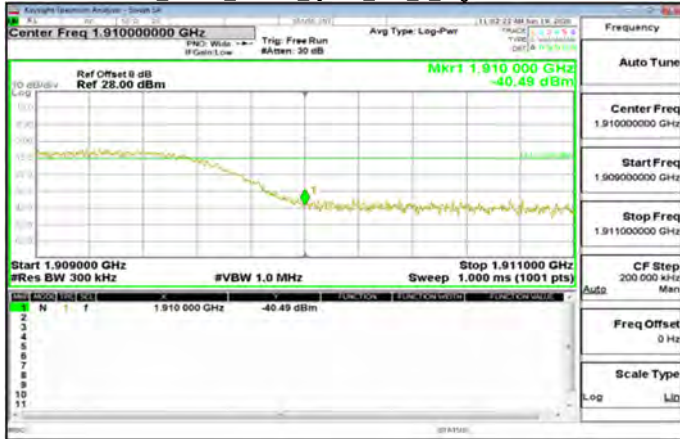
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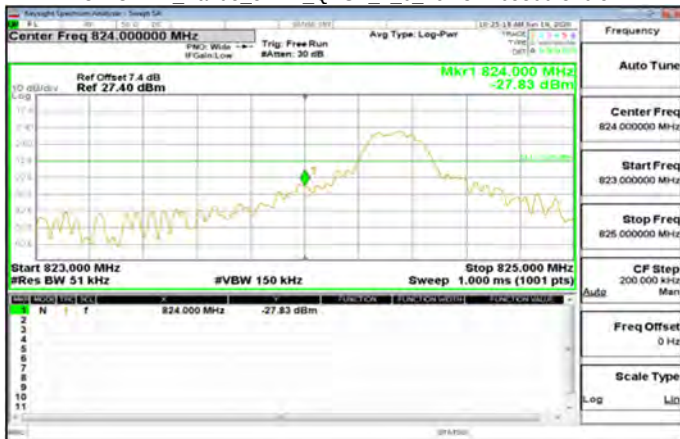
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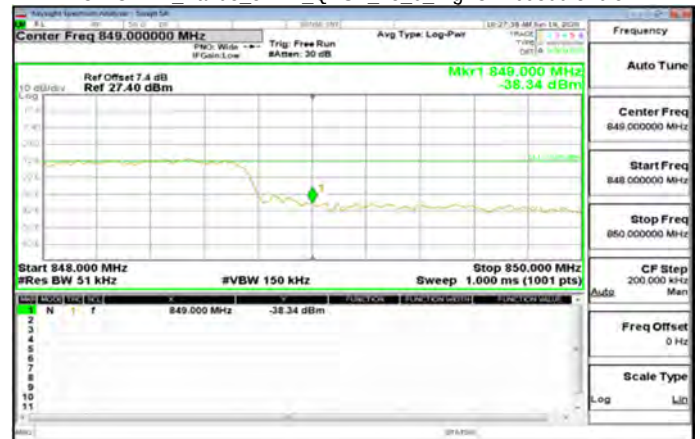
CP-OFDM Band5_5MHz_QPSK_25_0_LowCH165300-826.5



CP-OFDM Band5_5MHz_QPSK_1_0_LowCH165300-826.5



CP-OFDM Band5_5MHz_QPSK_25_0_HighCH169300-846.5



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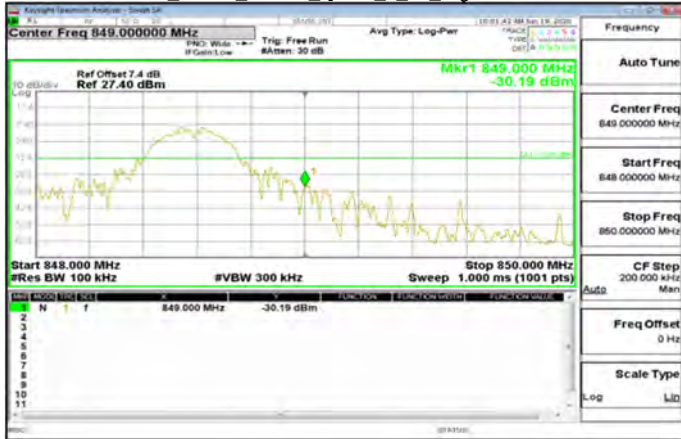
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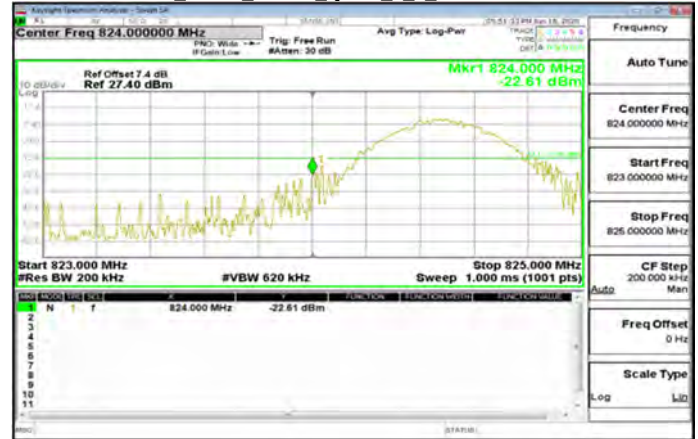
CP-OFDM Band5_10MHz_QPSK_52_0_HighCH168800-844



CP-OFDM Band5_10MHz_QPSK_1_51_HighCH168800-844



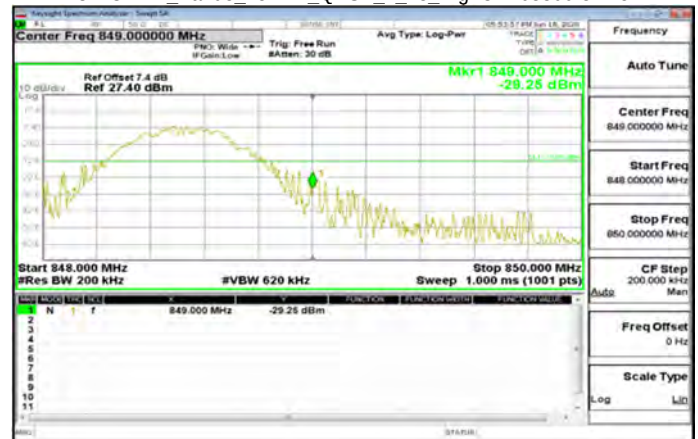
CP-OFDM Band5_15MHz_QPSK_1_0_LowCH166300-831.5



CP-OFDM Band5_10MHz_QPSK_52_0_LowCH165800-829



CP-OFDM Band5_15MHz_QPSK_1_78_HighCH168300-841.5



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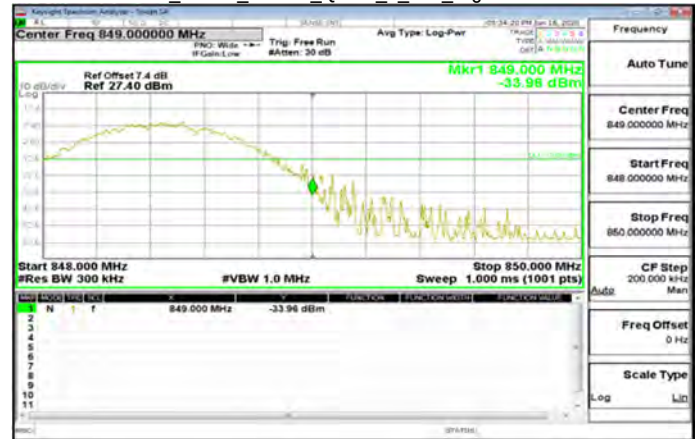
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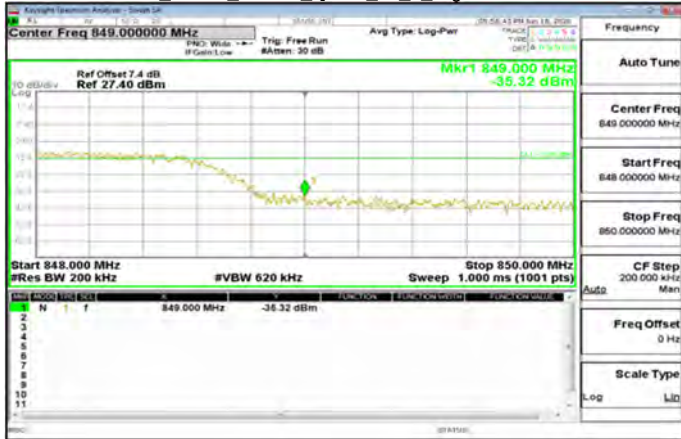
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CP-OFDM_Band5_20MHz_QPSK_1_105_HighCH167800-839



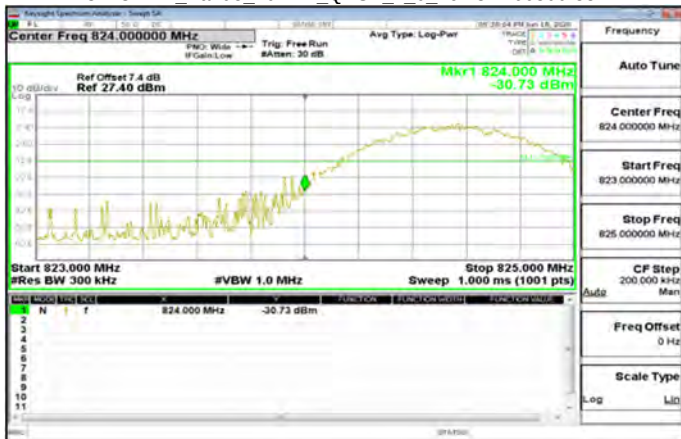
CP-OFDM_Band5_15MHz_QPSK_79_0_HighCH168300-841.5



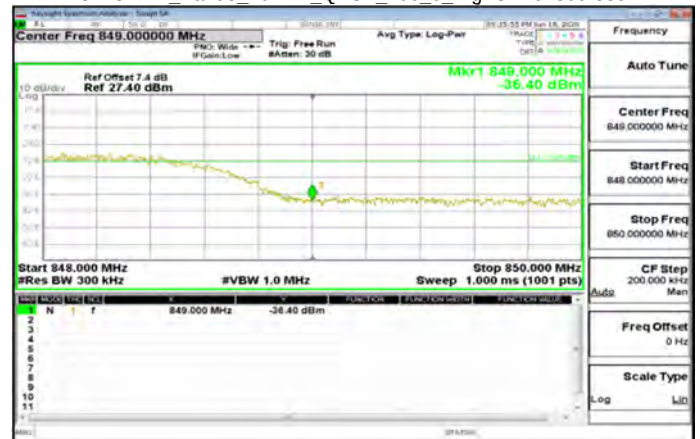
CP-OFDM_Band5_20MHz_QPSK_106_0_LowCH166800-834



CP-OFDM_Band5_20MHz_QPSK_1_0_LowCH166800-834



CP-OFDM_Band5_20MHz_QPSK_106_0_HighCH167800-839



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CP-OFDM_Band66_5MHz_QPSK_1_0_LowCH342500-1712.5



CP-OFDM_Band66_5MHz_QPSK_25_0_HighCH355500-1777.5



CP-OFDM_Band66_5MHz_QPSK_1_24_HighCH132647-1777.5



CP-OFDM_Band66_10MHz_QPSK_1_0_LowCH343000-1715



CP-OFDM_Band66_5MHz_QPSK_25_0_LowCH342500-1712.5



CP-OFDM_Band66_10MHz_QPSK_1_51_HighCH355000-1775



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CP-OFDM Band66_10MHz_QPSK_52_0 LowCH343000-1715



CP-OFDM Band66_15MHz_QPSK_1_78_HighCH354500-1772.5



CP-OFDM Band66_10MHz_QPSK_52_0 HighCH355000-1775



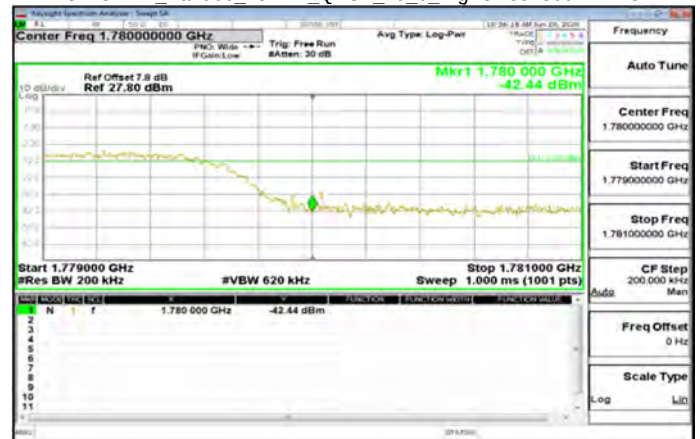
CP-OFDM Band66_15MHz_QPSK_79_0 LowCH343500-1717.5



CP-OFDM Band66_15MHz_QPSK_1_0 LowCH343500-1717.5



CP-OFDM Band66_15MHz_QPSK_79_0 HighCH354500-1772.5



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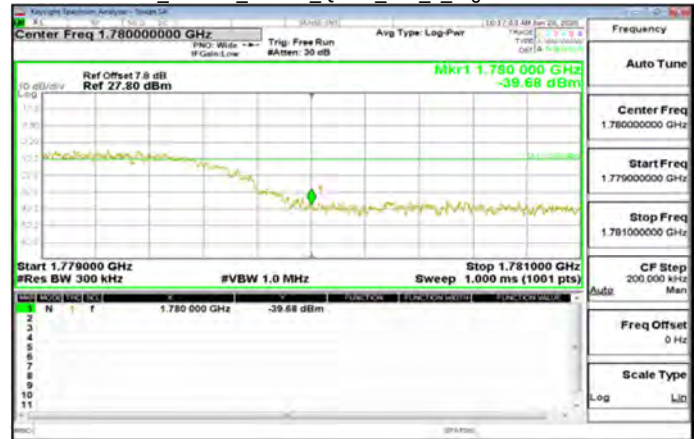
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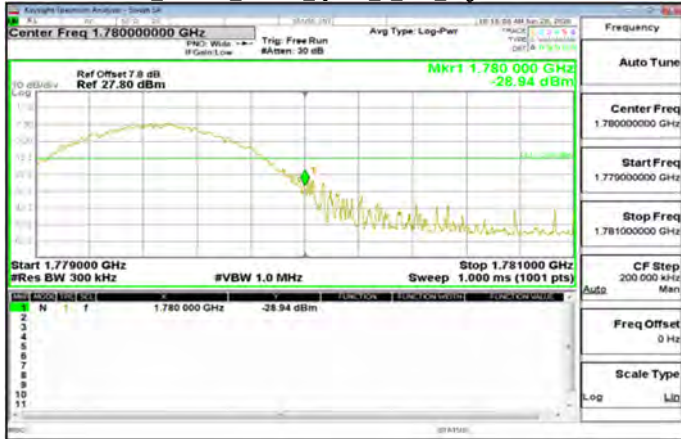
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CP-OFDM_Band66_20MHz_QPSK_106_0_HighCH354000-1770



CP-OFDM_Band66_20MHz_QPSK_1_105_HighCH354000-1770



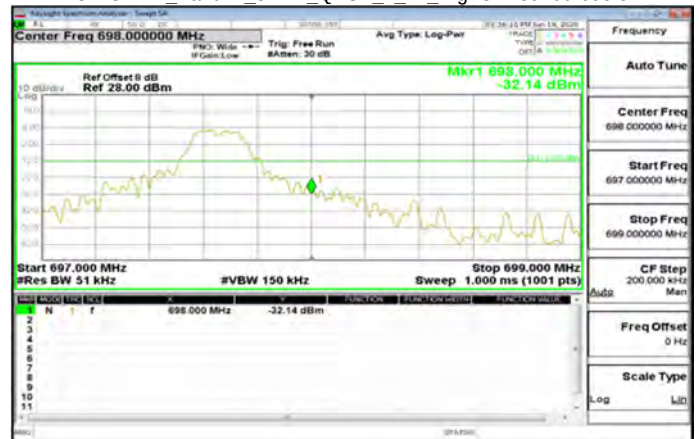
CP-OFDM_Band71_5MHz_QPSK_1_0_LowCH133100-665.5



CP-OFDM_Band66_20MHz_QPSK_106_0_LowCH344000-1720



CP-OFDM_Band71_5MHz_QPSK_1_24_HighCH139100-695.5



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CP-OFDM_Band71_5MHz_QPSK_25_0_LowCH133100-665.5



CP-OFDM_Band71_10MHz_QPSK_1_51_HighCH138600-693



CP-OFDM_Band71_5MHz_QPSK_25_0_HighCH139100-695.5



CP-OFDM_Band71_10MHz_QPSK_52_0_LowCH133600-668



CP-OFDM_Band71_10MHz_QPSK_1_0_LowCH133600-668



CP-OFDM_Band71_10MHz_QPSK_52_0_HighCH138600-693



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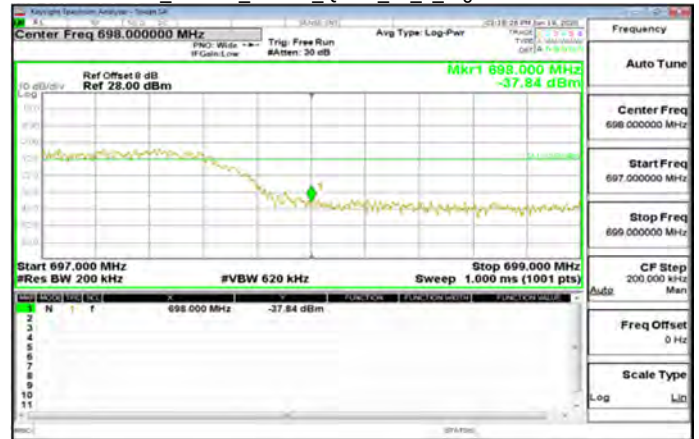
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CP-OFDM_Band71_15MHz_QPSK_1_0_LowCH134100-670.5



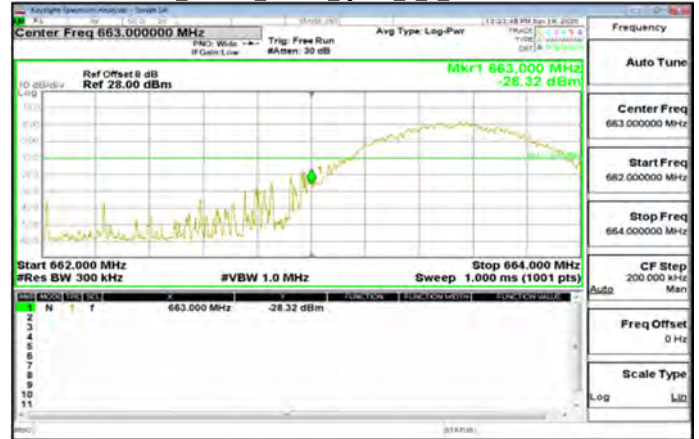
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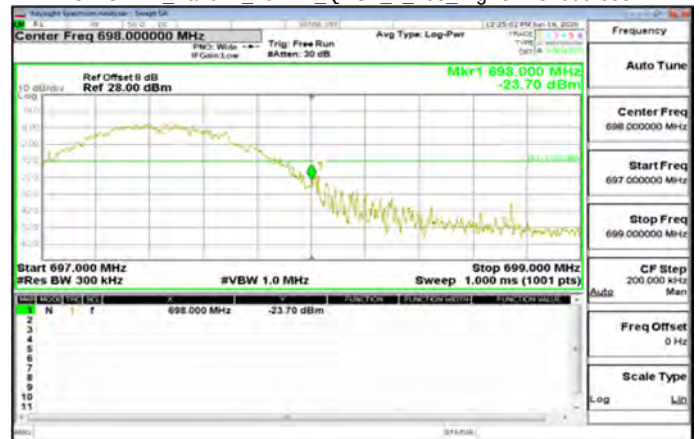
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CP-OFDM_Band71_15MHz_QPSK_79_0_LowCH134100-670.5



CP-OFDM_Band71_20MHz_QPSK_1_105_HighCH137600-688



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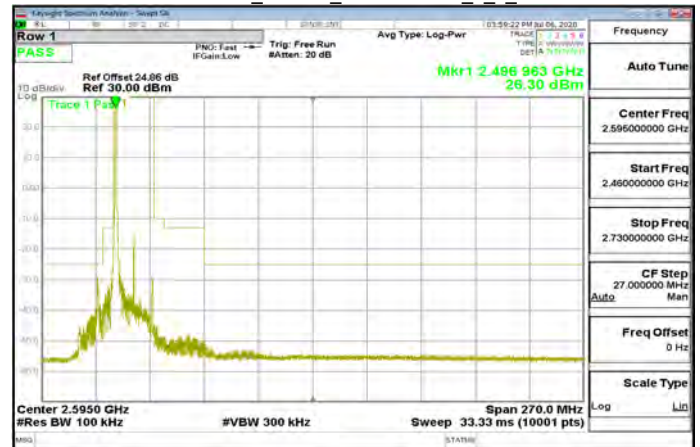
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CP-OFDM Band71_20MHz_QPSK_106_0_LowCH134600-673

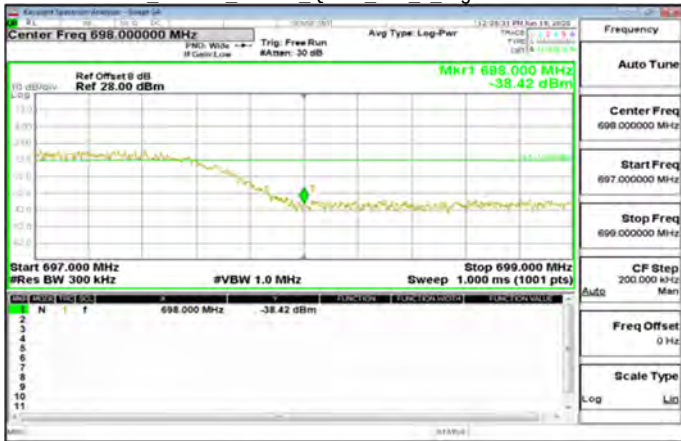


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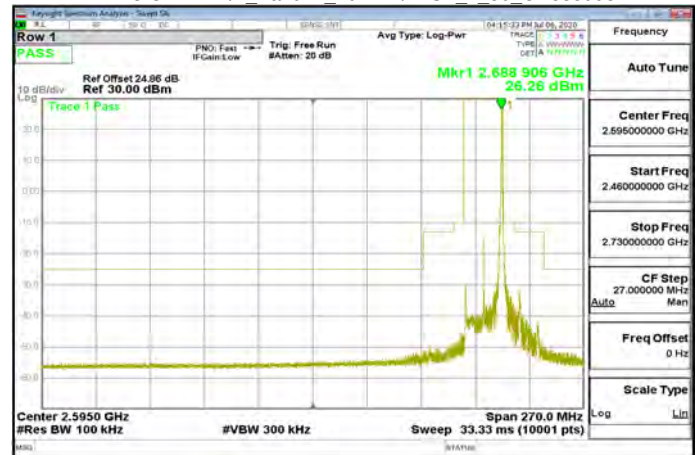
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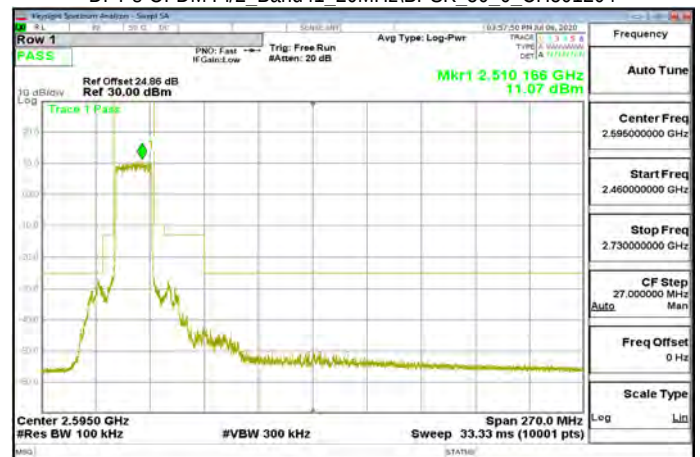
CP-OFDM Band71_20MHz_QPSK_106_0_HighCH137600-688



DFT-s-OFDM Pi/2_Band41_20MHzBPSK_1_50_CH535998



DFT-s-OFDM Pi/2_Band41_20MHzBPSK_50_0_CH501204

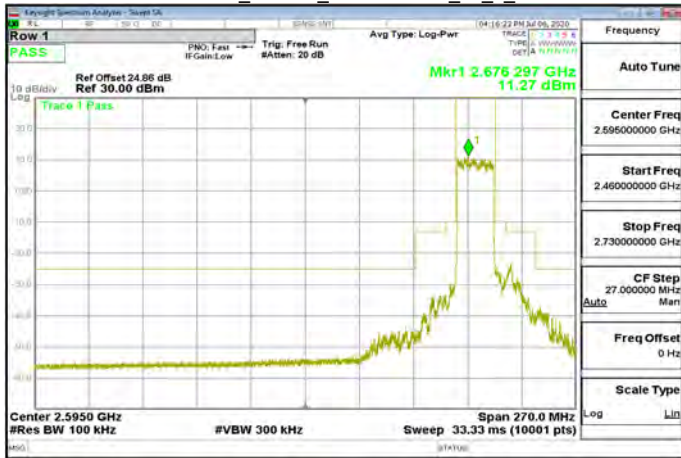


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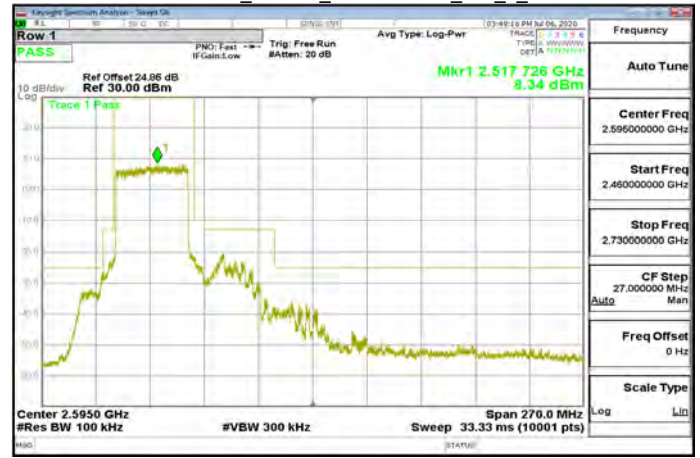
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DFT-s-OFDM Pi/2_Band41_20MHz\BPSK_50_0_CH535998



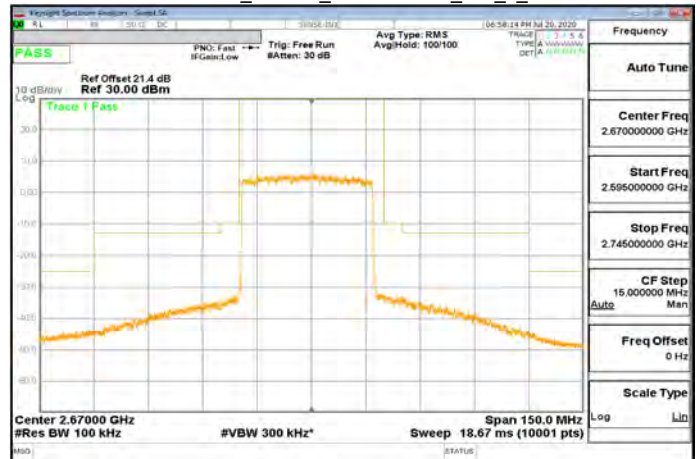
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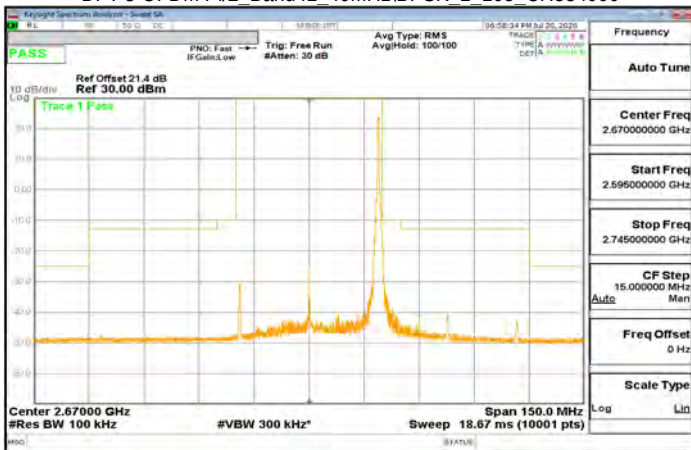
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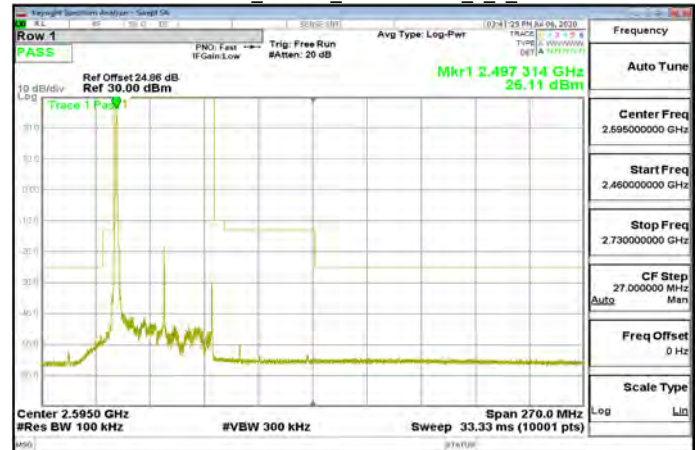
DFT-s-OFDM Pi/2_Band41_40MHz\BPSK_100_0_CH534000



DFT-s-OFDM Pi/2_Band41_40MHz\BPSK_1_105_CH534000



DFT-s-OFDM Pi/2_Band41_50MHz\BPSK_1_0_CH504204

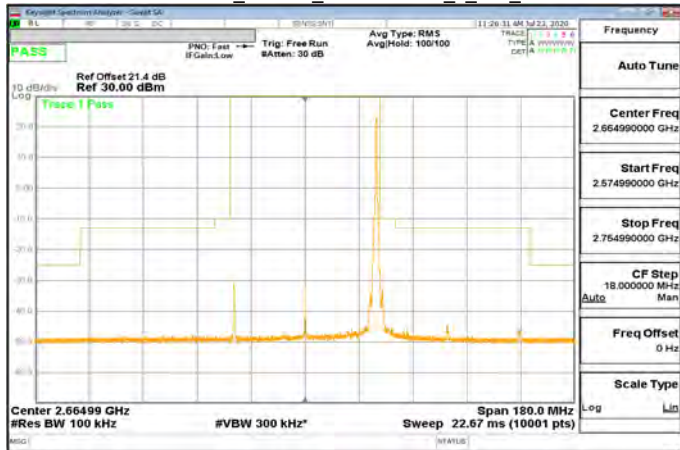


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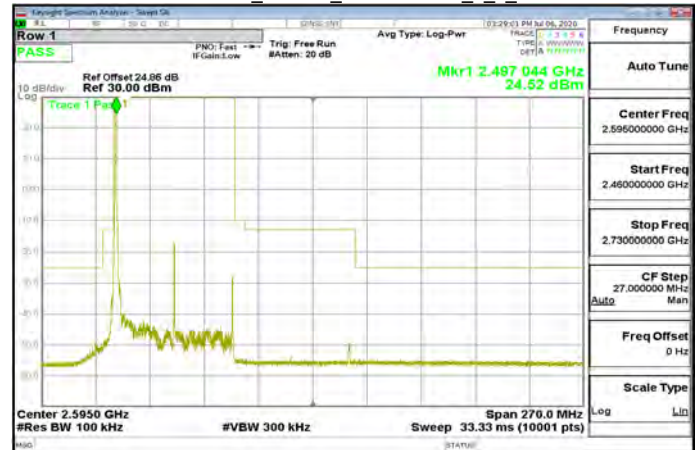
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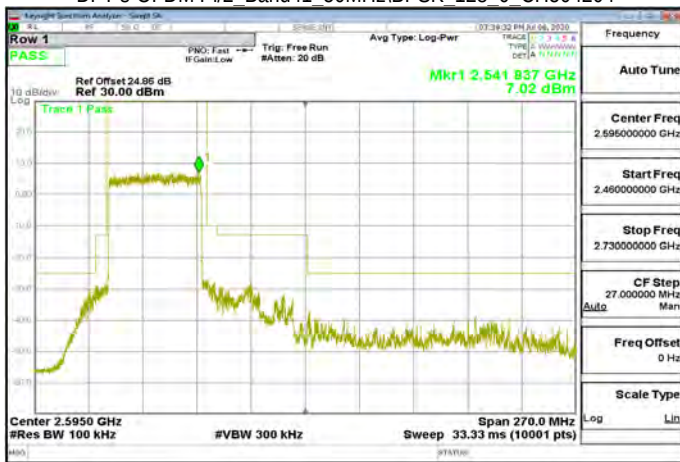
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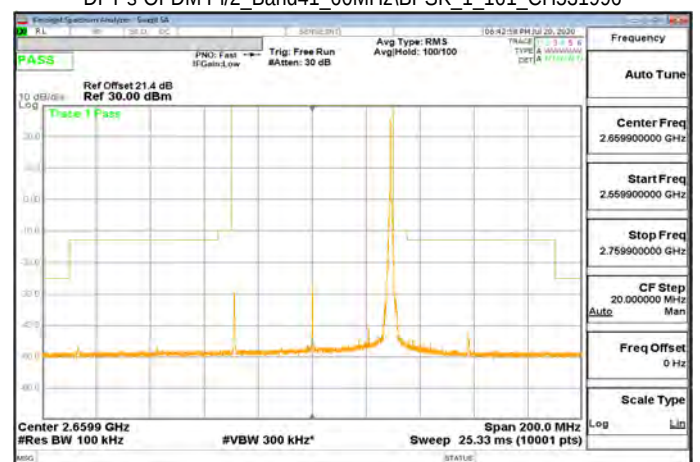
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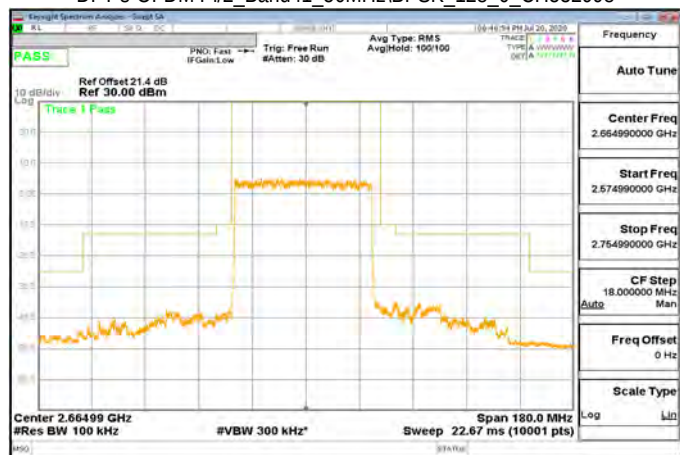
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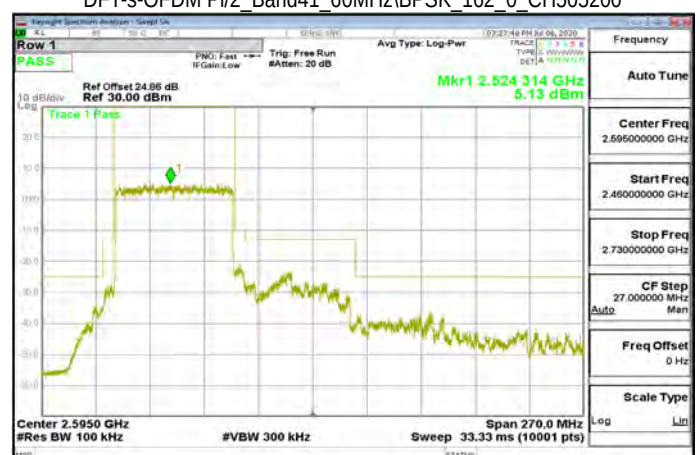
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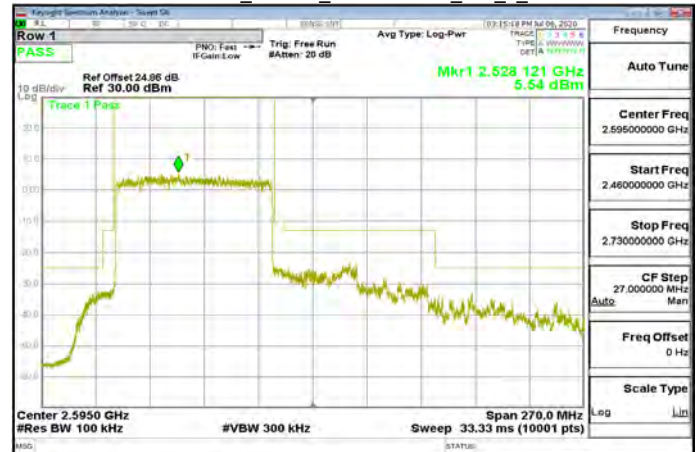
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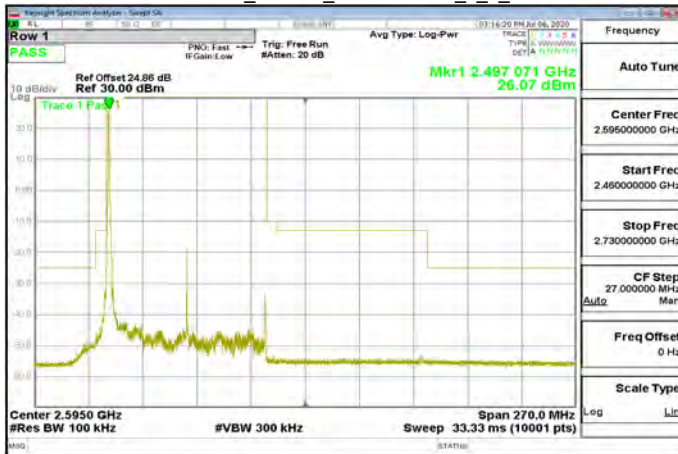
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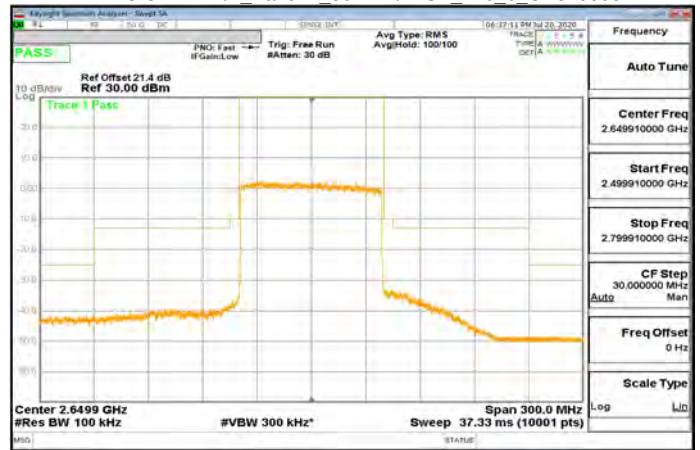
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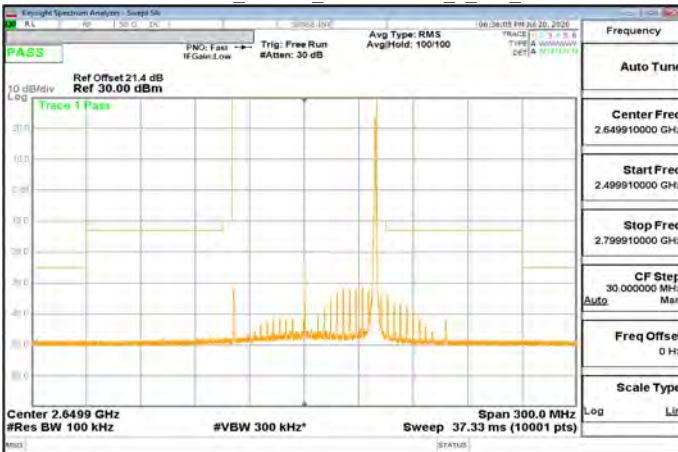
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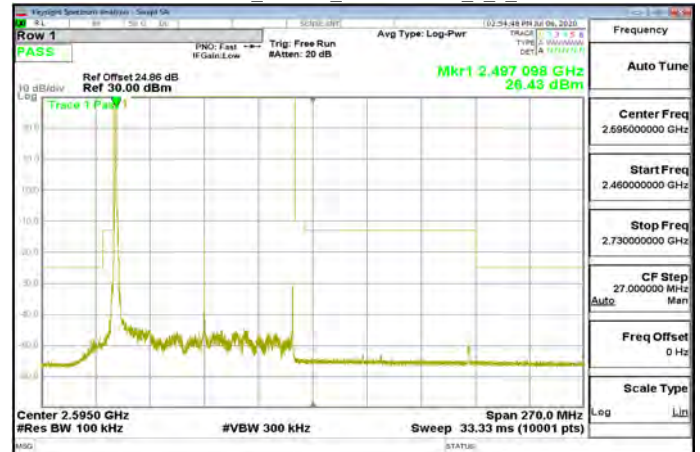
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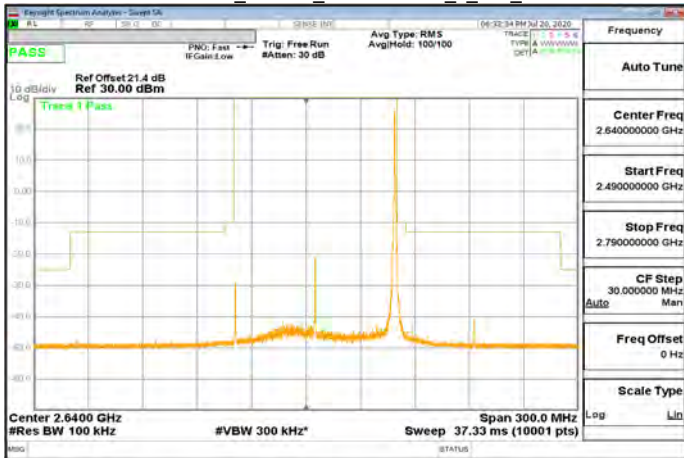


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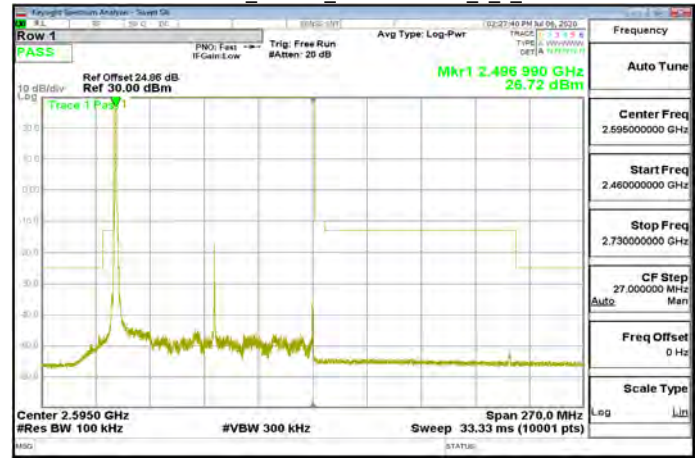
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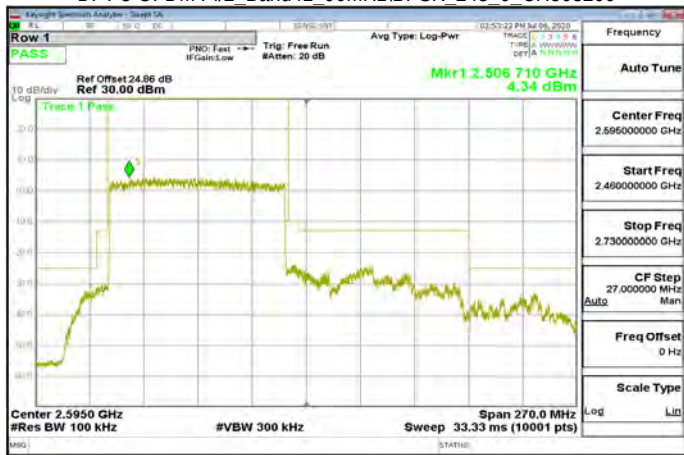
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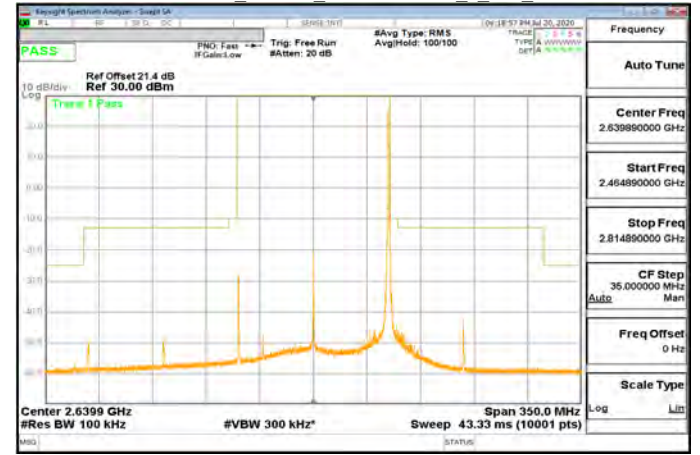
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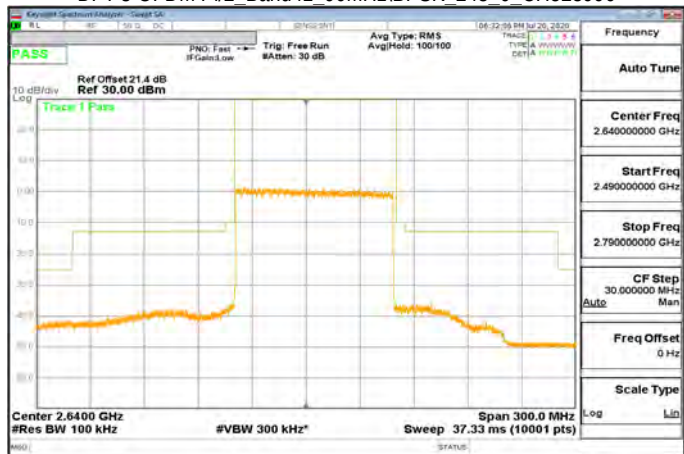
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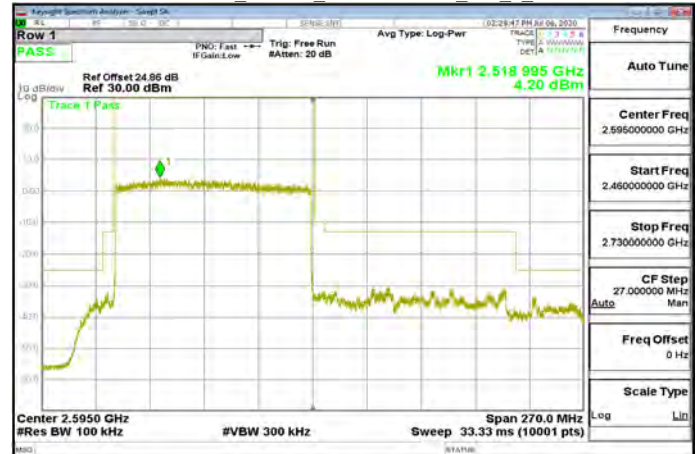
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DFT-s-OFDM Pi/2_Band41_90MHz\BPSK_243_0_CH528996



DFT-s-OFDM Pi/2_Band41_100MHz\BPSK_270_0_CH509202



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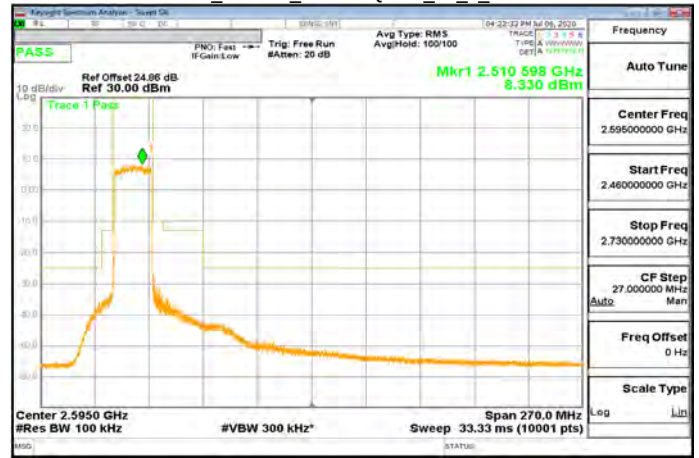
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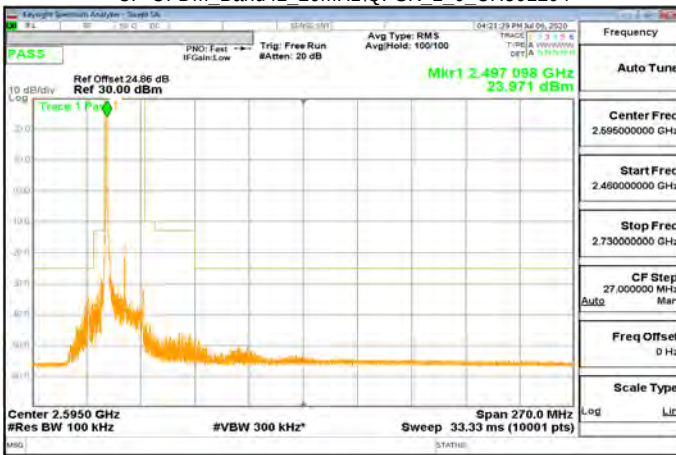
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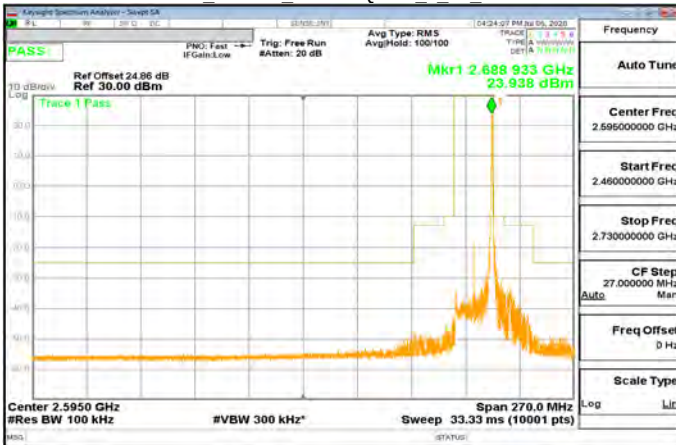
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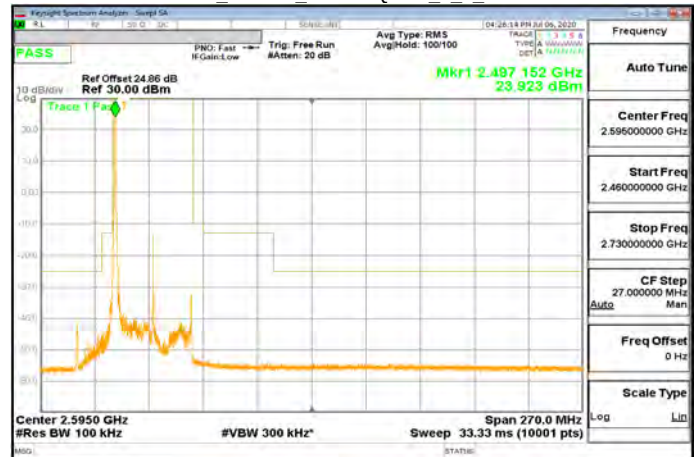
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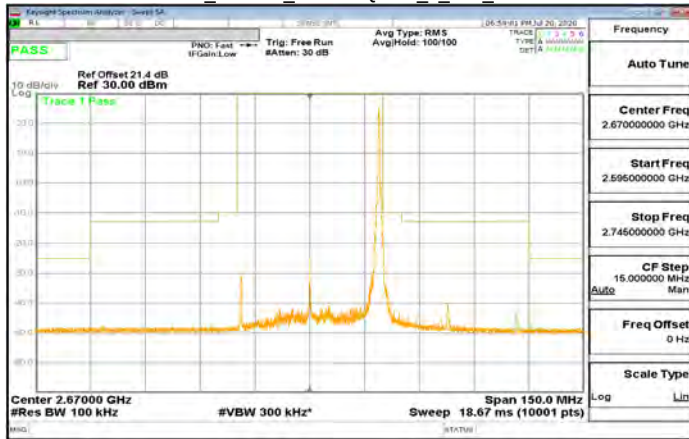


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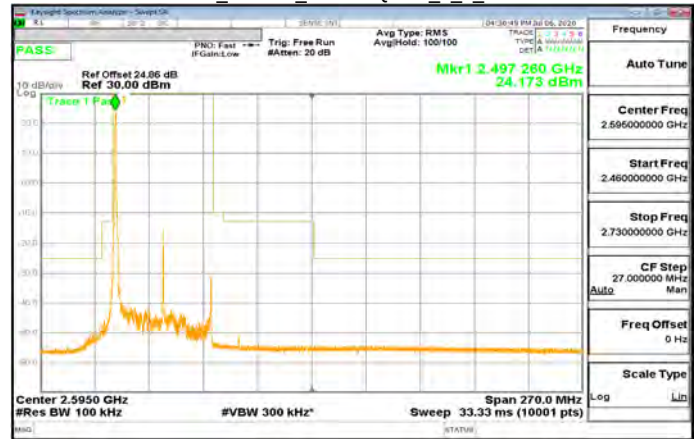
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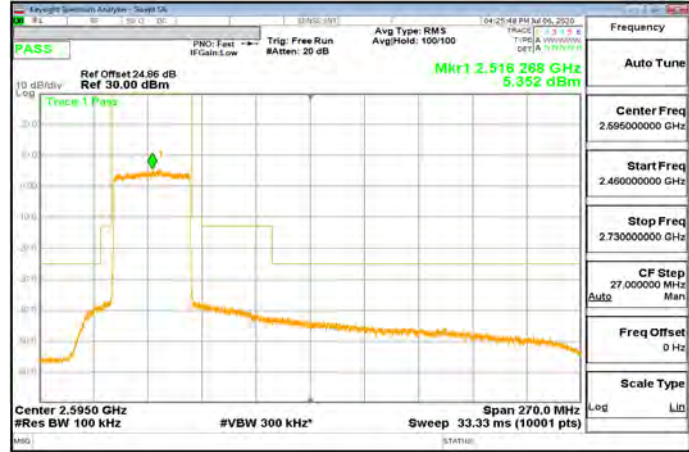
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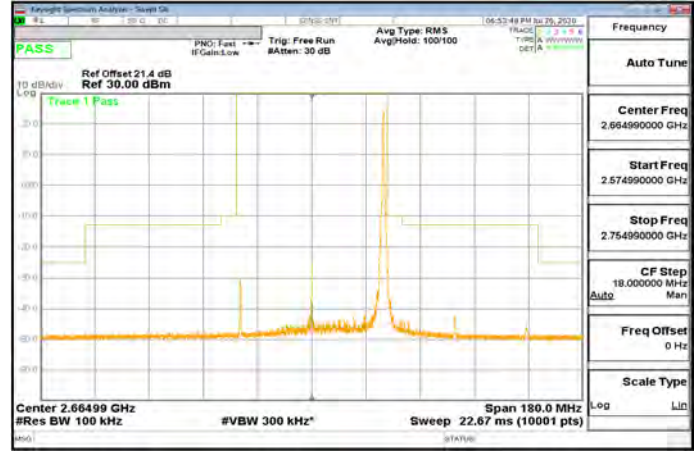
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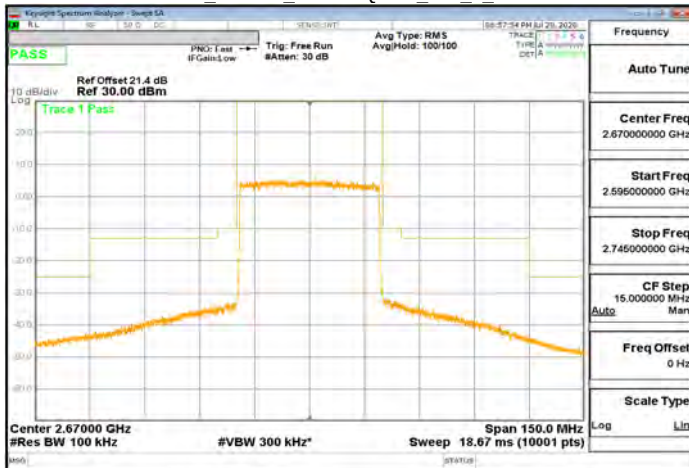
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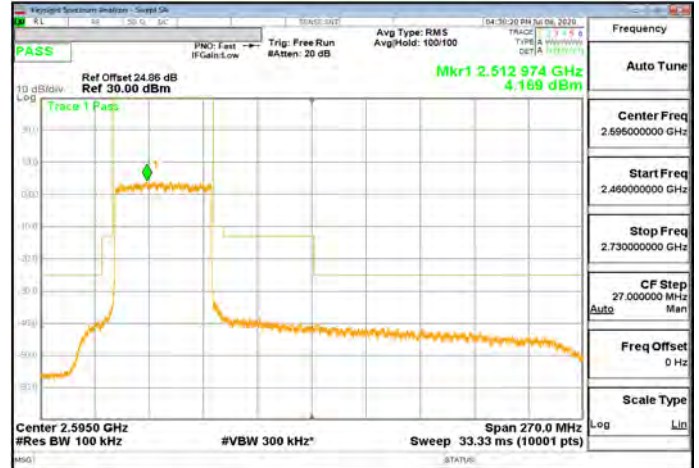
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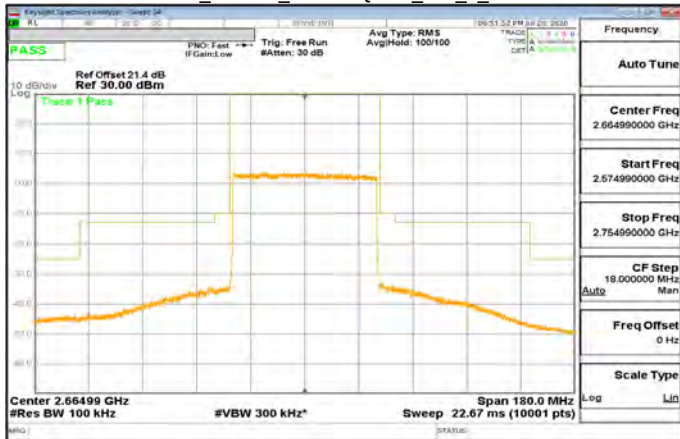


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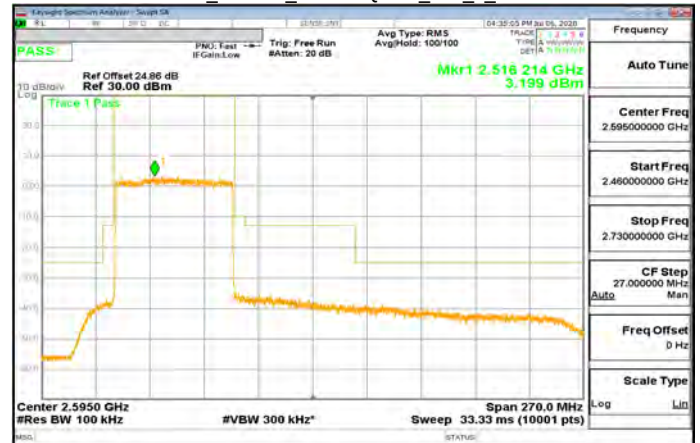
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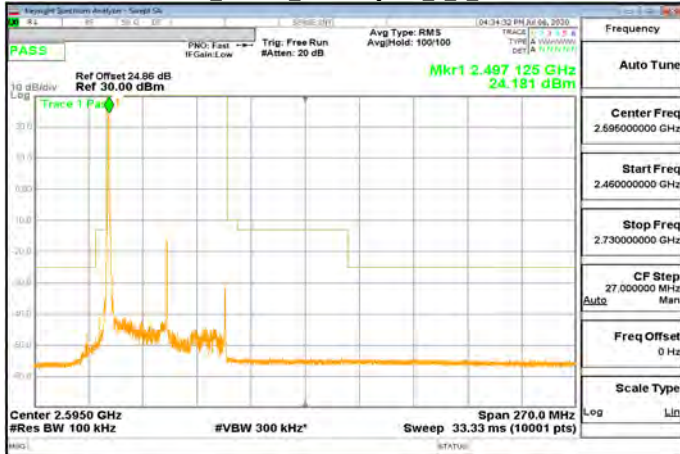
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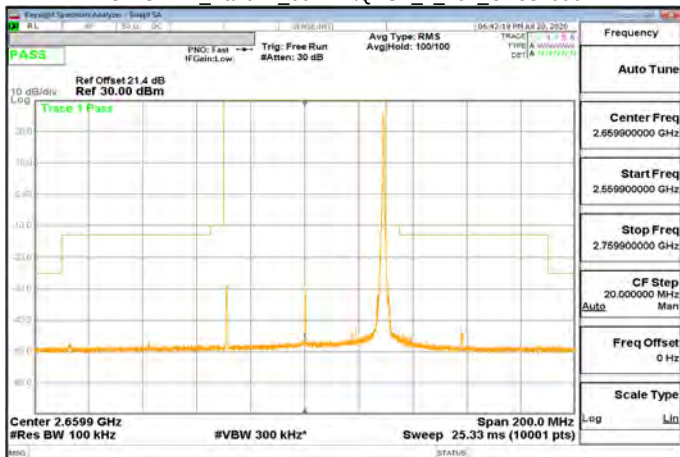
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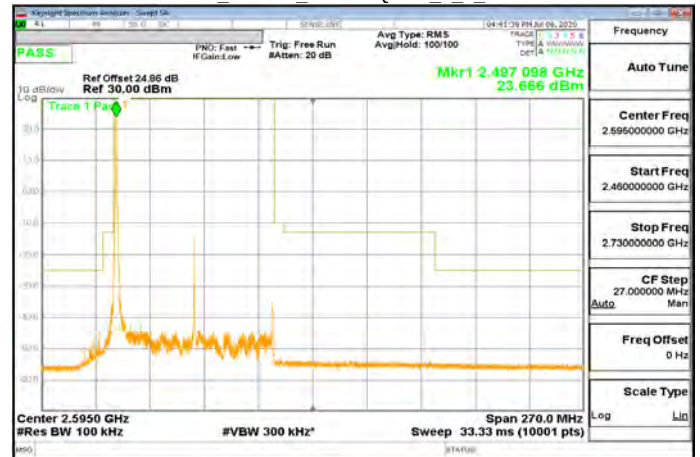
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CP-OFDM_Band41_80MHz\QPSK_1_0_CH507204

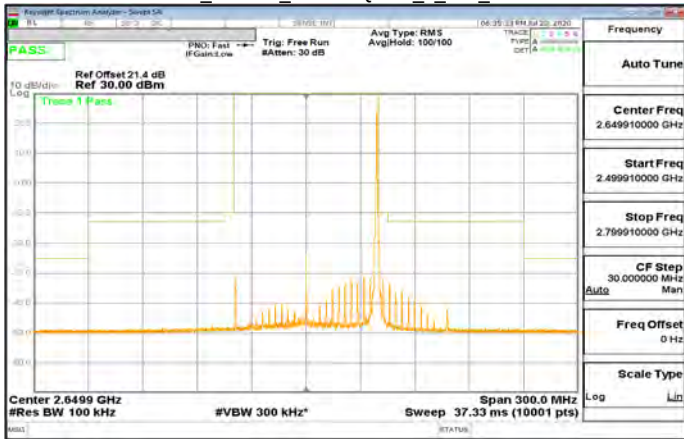


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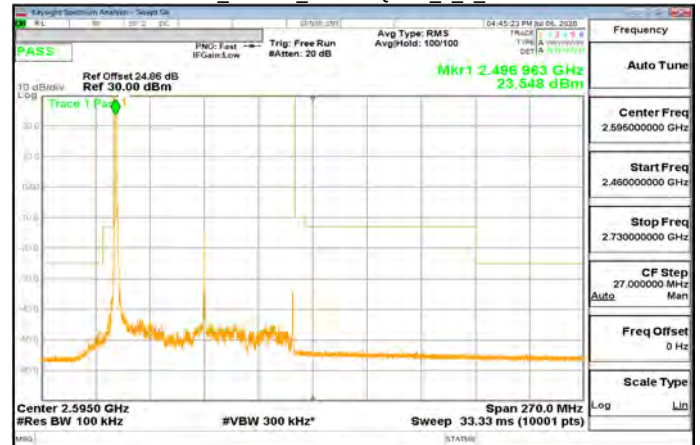
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CP-OFDM_Band41_80MHz\QPSK_1_216_CH529998



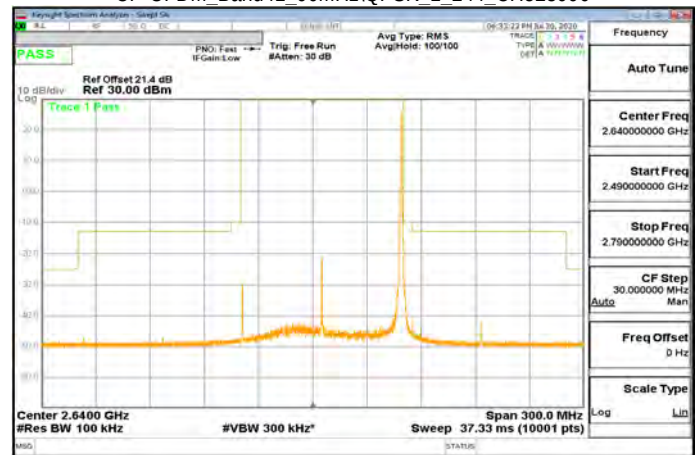
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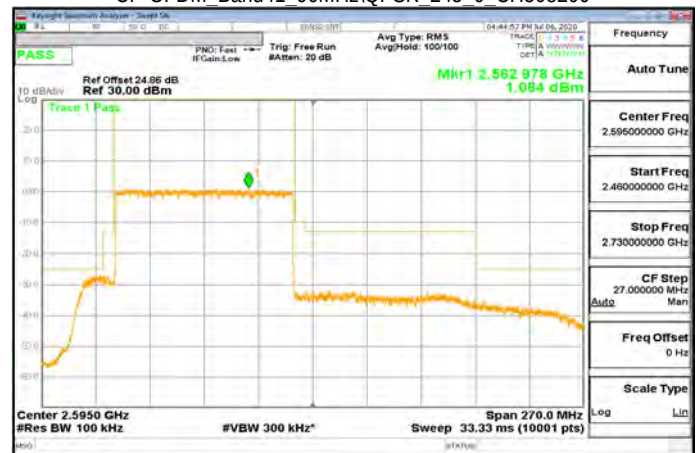
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CP-OFDM_Band41_80MHz\QPSK_217_0_CH529998



CP-OFDM_Band41_90MHz\QPSK_245_0_CH508200



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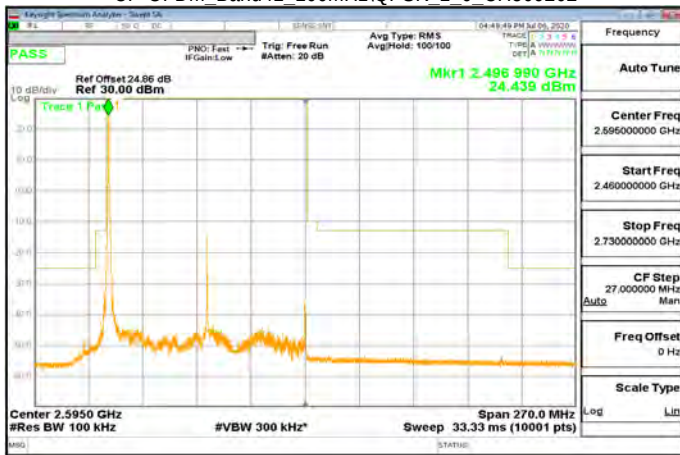
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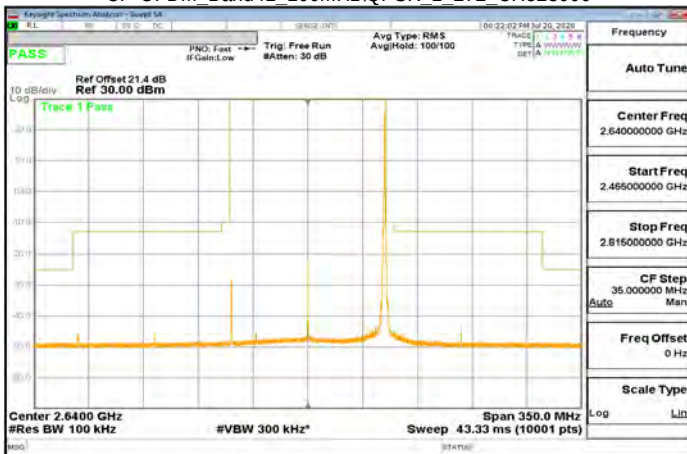
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CP-OFDM_Band41_100MHz\QPSK_1_272_CH528000



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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)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.5, RSS-130 §6.6, RSS-199 §4.5

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(c) (5) & FCC §27.53(g) for LTE B71

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 LTE B71

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 LTE B66

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.

RSS-139 §6.6 for LTE B66

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

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FCC §27.53(m) (4) (6) for LTE B41

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

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

RSS-199 §4.5 for LTE B41

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} p$ for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

$40 + 10 \log_{10} p$ from the channel edges to 5 MHz away

$43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and

$55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than $43 + 10 \log_{10} p$ on all frequencies between 2490.5 MHz and 2496 MHz, and $55 + 10 \log_{10} p$ at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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

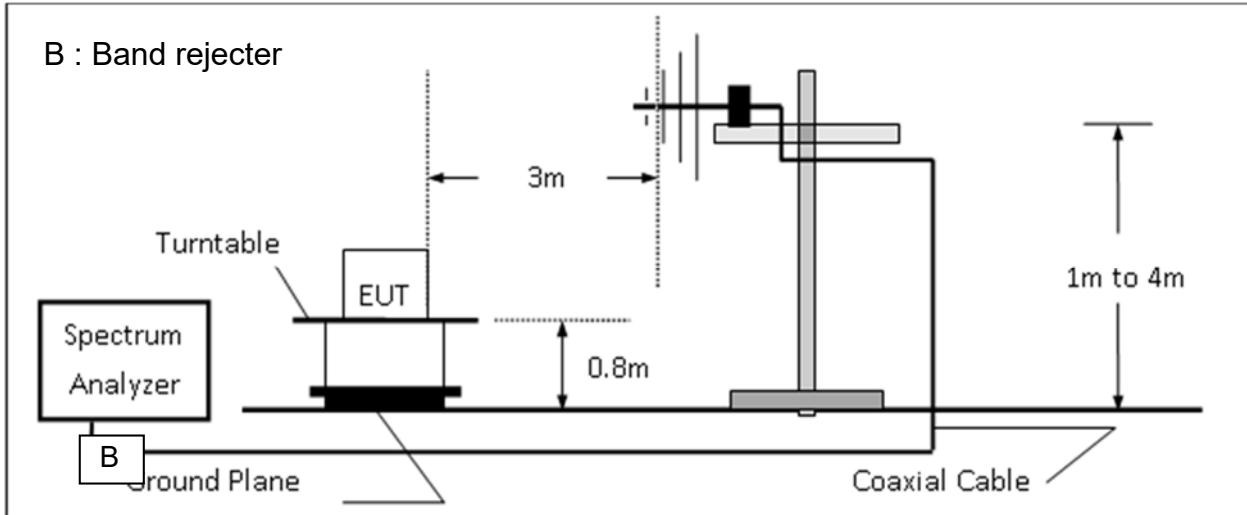
Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

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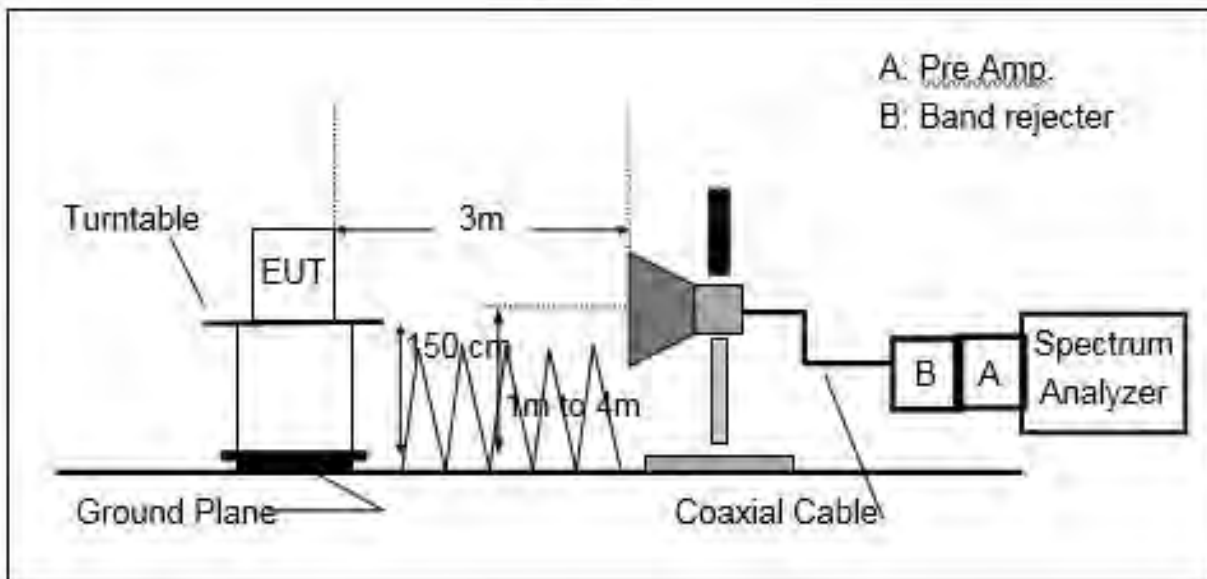
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9.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-Up Frequency Over 1 GHz



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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:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/23/2019	10/22/2020
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/16/2019	12/15/2020
Pre-Amplifier	EMC Instruments	EMC184045B	980135	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instruments	EMC051825	980152	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A09469	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
Filter 2240-2700	Micro-Tronics	WI	2	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	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
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	01/02/2020	01/01/2021

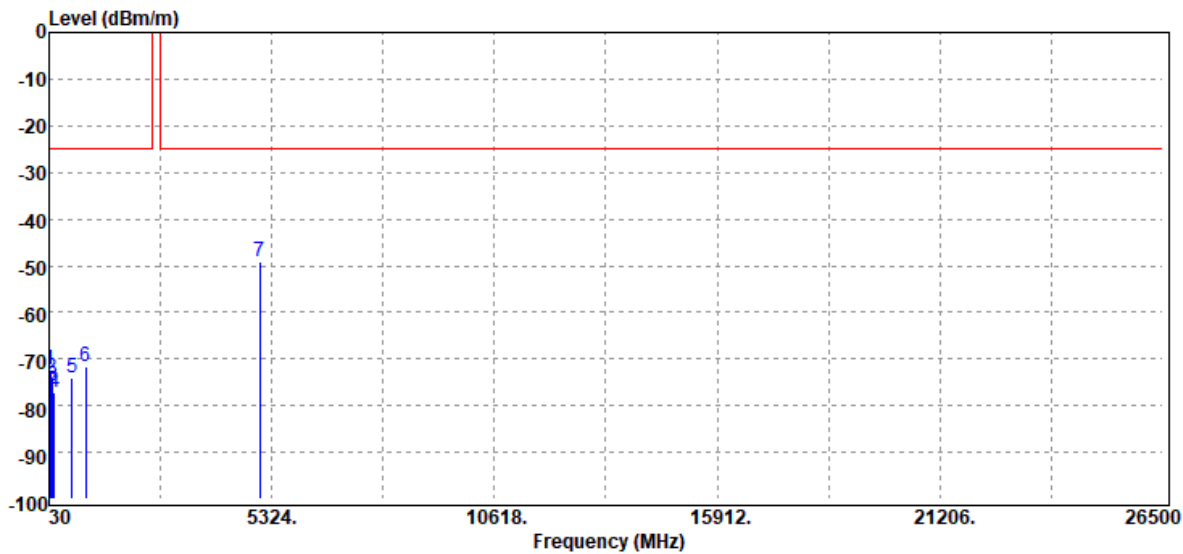
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9.5 Measurement Result:

Report Number	:ER/2020/30084	Test Site	:SAC I Chamber
Operation Mode	:n41A	Test Date	:2020-07-14
Test Mode	:Tx CH Low	Temp./Humi.	:26.5/62
EUT Pol	:E1 Plane	Antenna Pol.	:VERTICAL
Test Frequency	:2516.01 MHz	Engineer	:Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.16	-72.15	-55.79	-15.65	-0.71	-25.00	-47.15
88.20	-74.08	-66.99	-6.20	-0.89	-25.00	-49.08
109.54	-75.89	-67.80	-7.09	-1.00	-25.00	-50.89
156.10	-77.23	-68.85	-7.17	-1.21	-25.00	-52.23
571.26	-74.12	-70.29	-1.52	-2.31	-25.00	-49.12
896.21	-71.70	-67.13	-1.60	-2.97	-25.00	-46.70
5032.02	-49.08	-54.88	12.64	-6.84	-25.00	-24.08

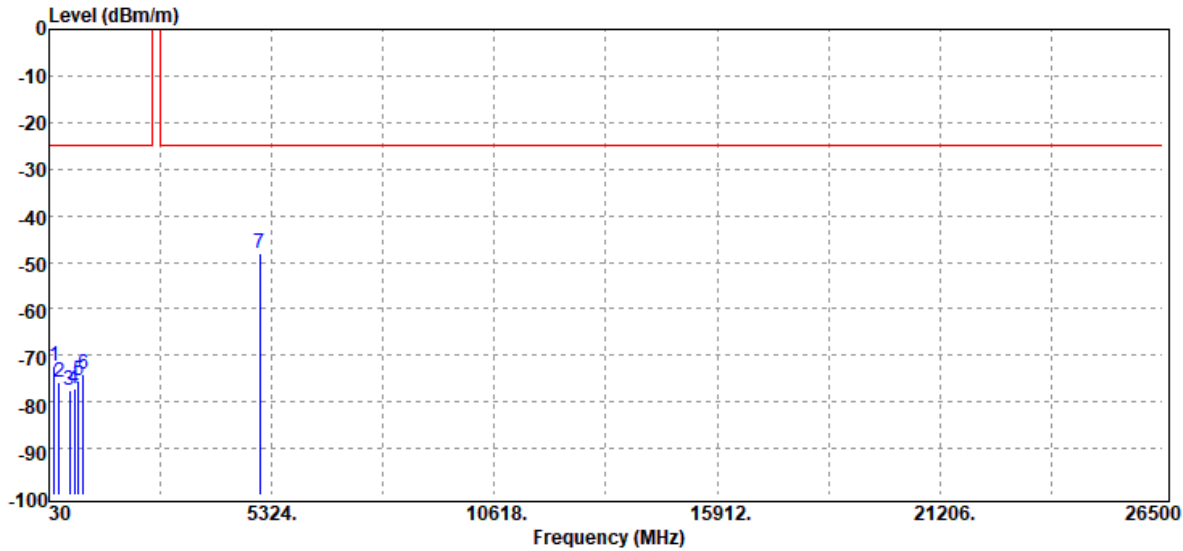
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Report Number :ER/2020/30084
Operation Mode :n41A
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :2516.01 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
158.04	-72.47	-64.21	-7.05	-1.21	-25.00	-47.47
267.65	-75.92	-72.65	-1.74	-1.53	-25.00	-50.92
526.64	-77.42	-74.15	-1.33	-1.94	-25.00	-52.42
631.40	-77.15	-73.29	-1.52	-2.34	-25.00	-52.15
731.31	-75.30	-71.13	-1.50	-2.67	-25.00	-50.30
847.71	-74.03	-69.98	-1.56	-2.49	-25.00	-49.03
5032.02	-48.03	-53.83	12.64	-6.84	-25.00	-23.03

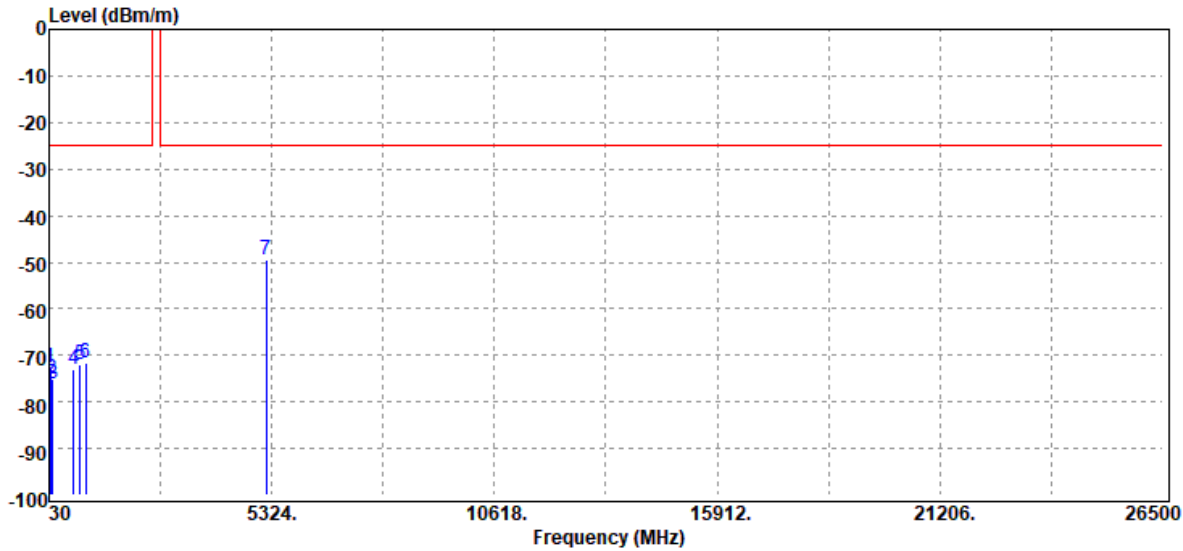
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Report Number :ER/2020/30084
Operation Mode :n41A
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :2592.99 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :VERTICAL
Engineer :Neo



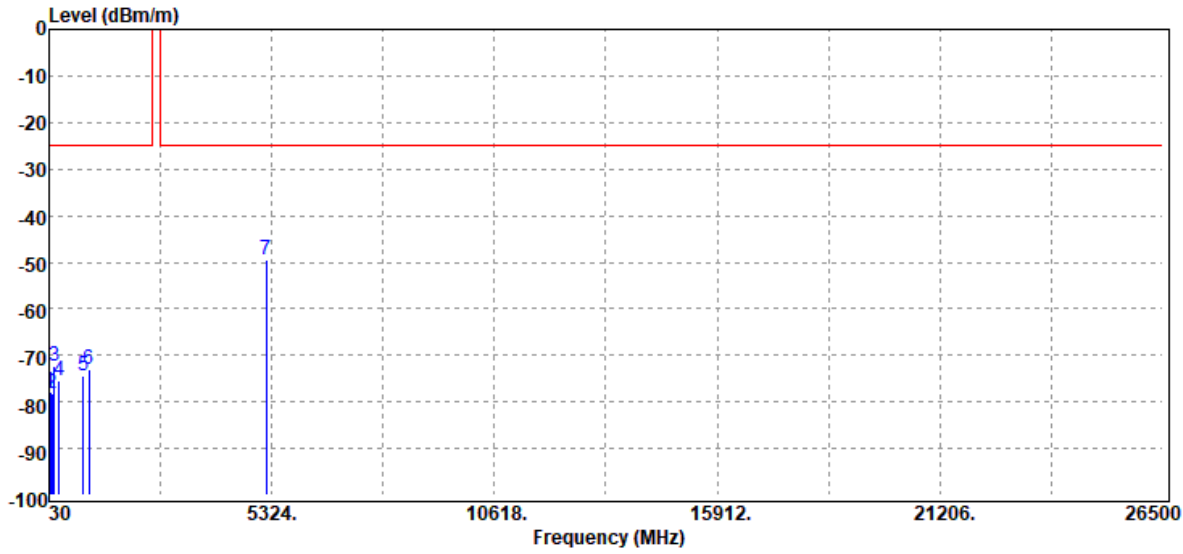
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
61.04	-72.58	-57.22	-14.61	-0.75	-25.00	-47.58
90.14	-75.02	-68.31	-5.81	-0.90	-25.00	-50.02
109.54	-76.10	-68.01	-7.09	-1.00	-25.00	-51.10
605.21	-73.07	-69.07	-1.89	-2.11	-25.00	-48.07
774.96	-71.97	-67.91	-1.84	-2.22	-25.00	-46.97
893.30	-71.57	-67.07	-1.54	-2.96	-25.00	-46.57
5185.98	-49.50	-55.31	12.92	-7.11	-25.00	-24.50

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Report Number :ER/2020/30084
Operation Mode :n41A
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :2592.99 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo


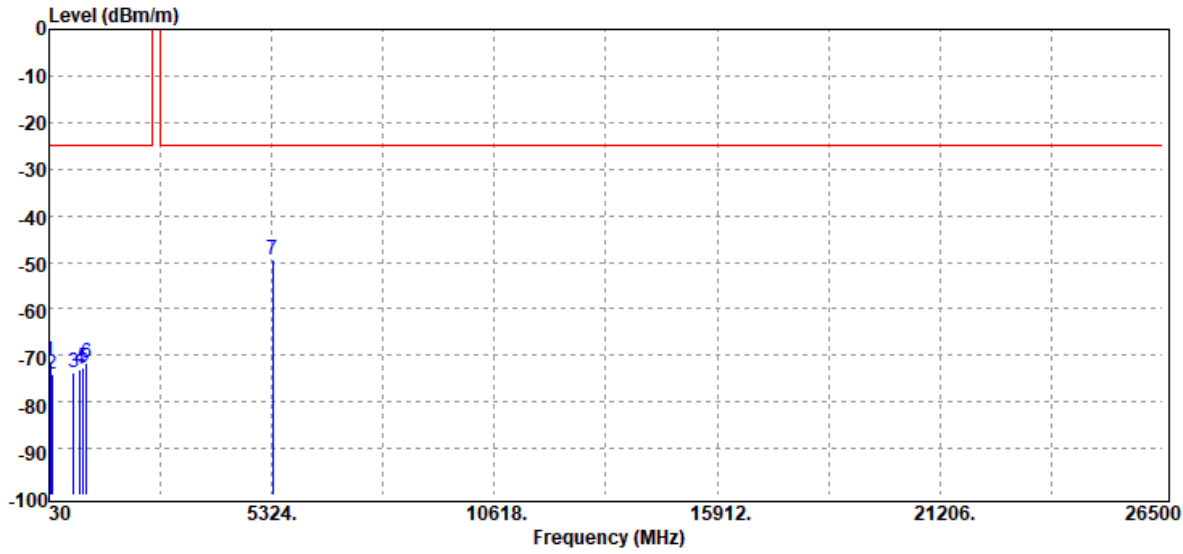
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
62.01	-77.78	-62.64	-14.38	-0.76	-25.00	-52.78
100.81	-78.25	-71.10	-6.20	-0.95	-25.00	-53.25
158.04	-72.47	-64.21	-7.05	-1.21	-25.00	-47.47
269.59	-75.52	-72.20	-1.79	-1.53	-25.00	-50.52
835.10	-74.52	-69.78	-1.79	-2.95	-25.00	-49.52
972.84	-73.10	-68.15	-1.82	-3.13	-25.00	-48.10
5185.98	-49.62	-55.43	12.92	-7.11	-25.00	-24.62

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Report Number :ER/2020/30084
Operation Mode :n41A
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :2670 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :VERTICAL
Engineer :Neo


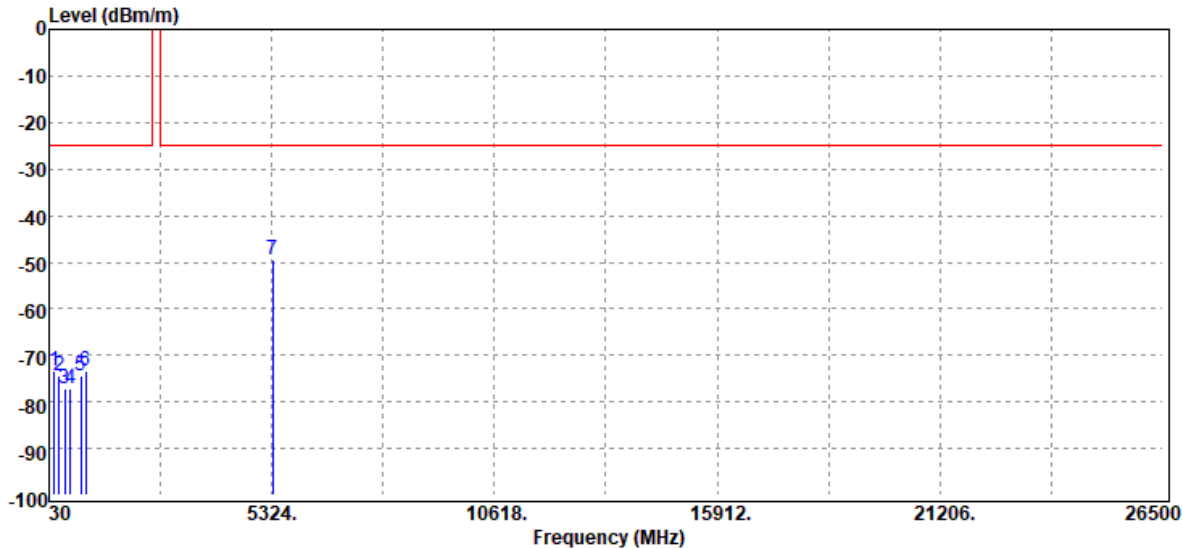
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level	Gain	Loss	dBm	dB
62.01	-71.44	-56.30	-14.38	-0.76	-25.00	-46.44
99.84	-73.97	-67.01	-6.01	-0.95	-25.00	-48.97
612.00	-73.76	-69.89	-1.89	-1.98	-25.00	-48.76
759.44	-73.11	-68.63	-1.81	-2.67	-25.00	-48.11
839.95	-72.77	-68.25	-1.64	-2.88	-25.00	-47.77
914.64	-71.71	-66.97	-1.79	-2.95	-25.00	-46.71
5340.00	-49.60	-56.00	13.48	-7.08	-25.00	-24.60

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Report Number :ER/2020/30084
Operation Mode :n41A
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :2670 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo


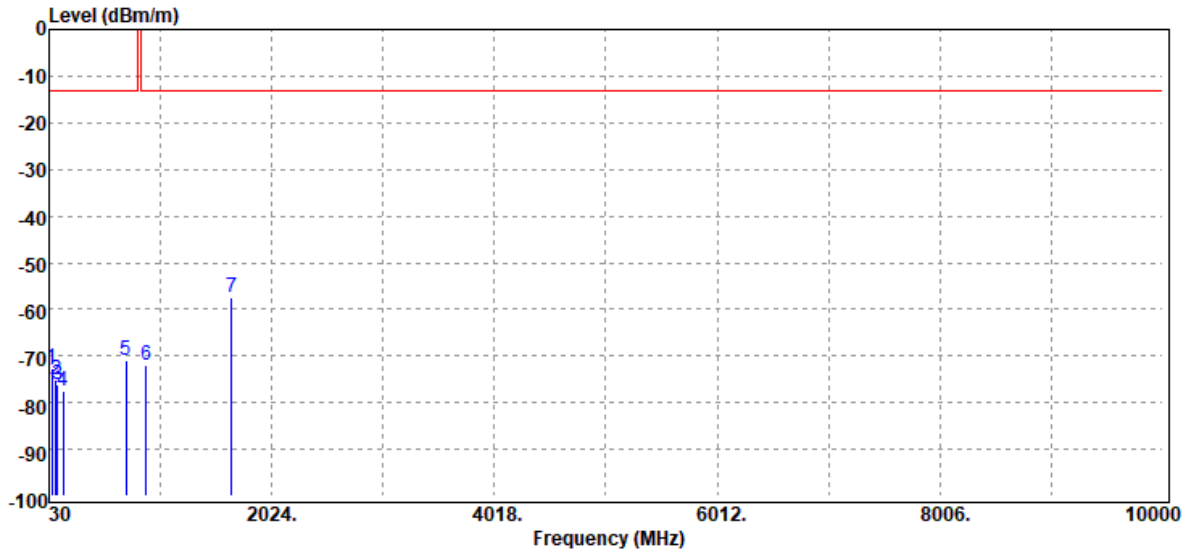
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
159.01	-73.39	-65.18	-7.00	-1.21	-25.00	-48.39
267.65	-74.45	-71.18	-1.74	-1.53	-25.00	-49.45
410.24	-77.23	-73.97	-1.38	-1.88	-25.00	-52.23
529.55	-77.08	-73.90	-1.34	-1.84	-25.00	-52.08
783.69	-74.47	-70.32	-1.72	-2.43	-25.00	-49.47
898.15	-73.29	-68.69	-1.62	-2.98	-25.00	-48.29
5340.00	-49.53	-55.93	13.48	-7.08	-25.00	-24.53

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Report Number :ER/2020/30084
Operation Mode :2A_n5A
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1950 MHz_831.5 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :VERTICAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.16	-72.78	-56.42	-15.65	-0.71	-13.00	-59.78
90.14	-74.96	-68.25	-5.81	-0.90	-13.00	-61.96
107.60	-76.12	-68.18	-6.95	-0.99	-13.00	-63.12
156.10	-77.65	-69.27	-7.17	-1.21	-13.00	-64.65
719.67	-70.80	-66.97	-1.19	-2.64	-13.00	-57.80
898.15	-71.94	-67.34	-1.62	-2.98	-13.00	-58.94
1663.00	-57.52	-63.44	9.80	-3.88	-13.00	-44.52

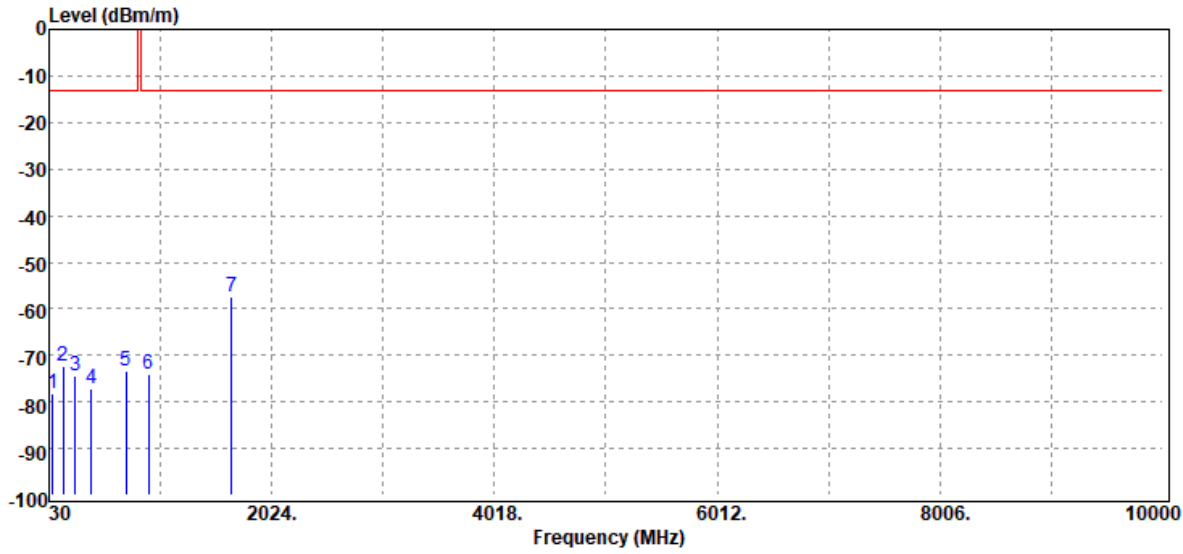
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Report Number :ER/2020/30084
Operation Mode :2A_n5A
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1950 MHz_831.5 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-78.11	-64.23	-13.09	-0.79	-13.00	-65.11
159.01	-72.19	-63.98	-7.00	-1.21	-13.00	-59.19
267.65	-74.29	-71.02	-1.74	-1.53	-13.00	-61.29
405.39	-77.23	-73.89	-1.47	-1.87	-13.00	-64.23
715.79	-73.46	-69.56	-1.32	-2.58	-13.00	-60.46
919.49	-74.13	-69.40	-1.85	-2.88	-13.00	-61.13
1663.00	-57.33	-63.25	9.80	-3.88	-13.00	-44.33

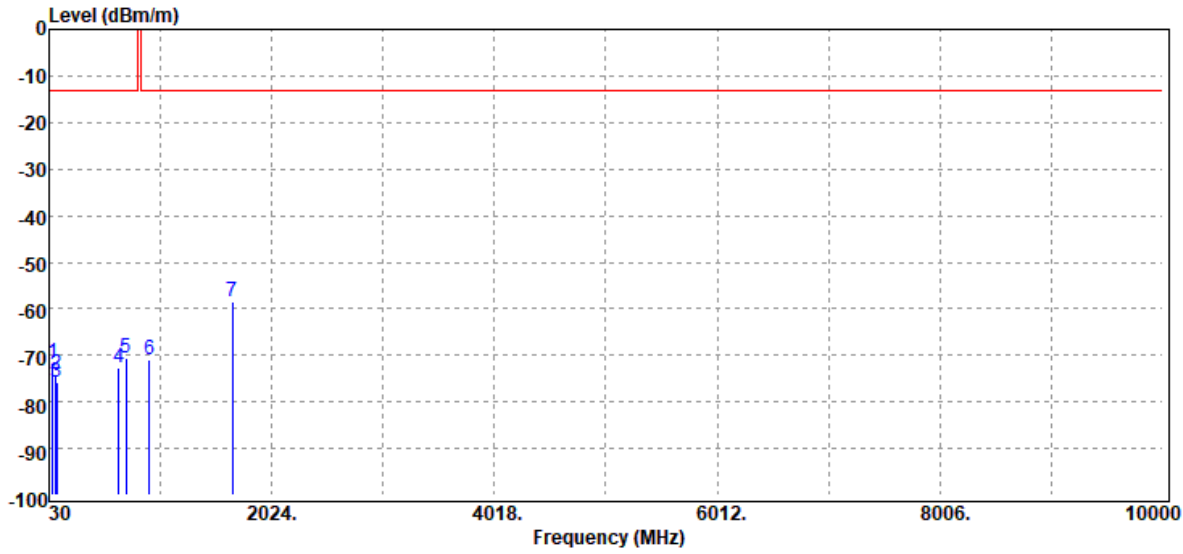
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Report Number :ER/2020/30084
Operation Mode :2A_n5A
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1950 MHz_836.5 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-71.52	-56.16	-14.61	-0.75	-13.00	-58.52
88.20	-74.08	-66.99	-6.20	-0.89	-13.00	-61.08
100.81	-75.78	-68.63	-6.20	-0.95	-13.00	-62.78
653.71	-72.62	-68.74	-1.32	-2.56	-13.00	-59.62
718.70	-70.45	-66.60	-1.22	-2.63	-13.00	-57.45
927.25	-70.90	-66.21	-1.93	-2.76	-13.00	-57.90
1673.00	-58.62	-64.52	9.80	-3.90	-13.00	-45.62

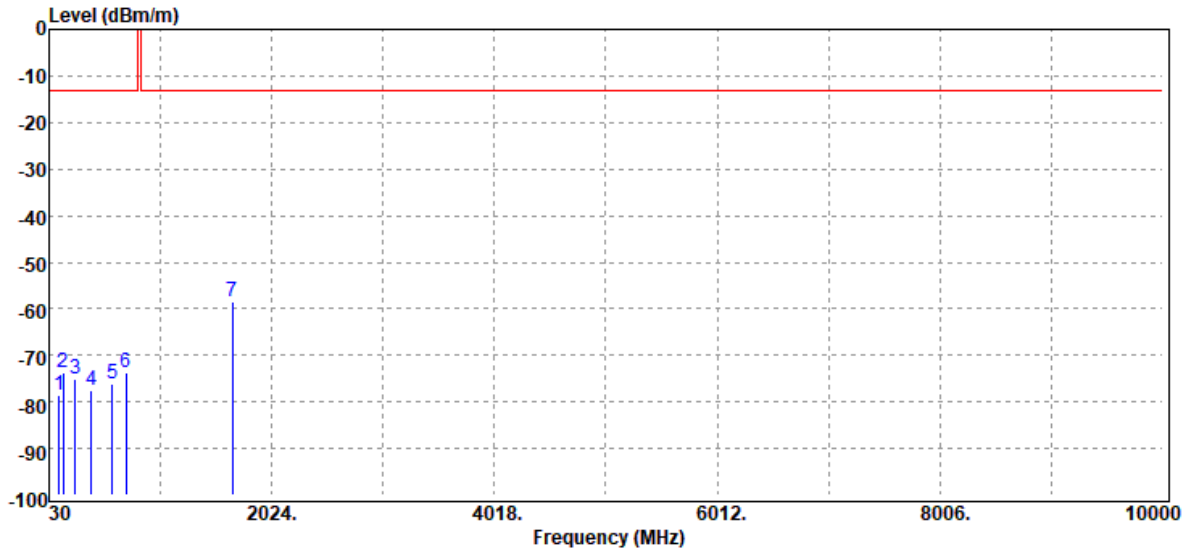
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Report Number :ER/2020/30084
Operation Mode :2A_n5A
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1950 MHz_836.5 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
119.24	-78.47	-70.09	-7.32	-1.06	-13.00	-65.47
158.04	-73.80	-65.54	-7.05	-1.21	-13.00	-60.80
267.65	-75.13	-71.86	-1.74	-1.53	-13.00	-62.13
410.24	-77.59	-74.33	-1.38	-1.88	-13.00	-64.59
599.39	-75.98	-71.83	-1.86	-2.29	-13.00	-62.98
719.67	-73.54	-69.71	-1.19	-2.64	-13.00	-60.54
1673.00	-58.60	-64.50	9.80	-3.90	-13.00	-45.60

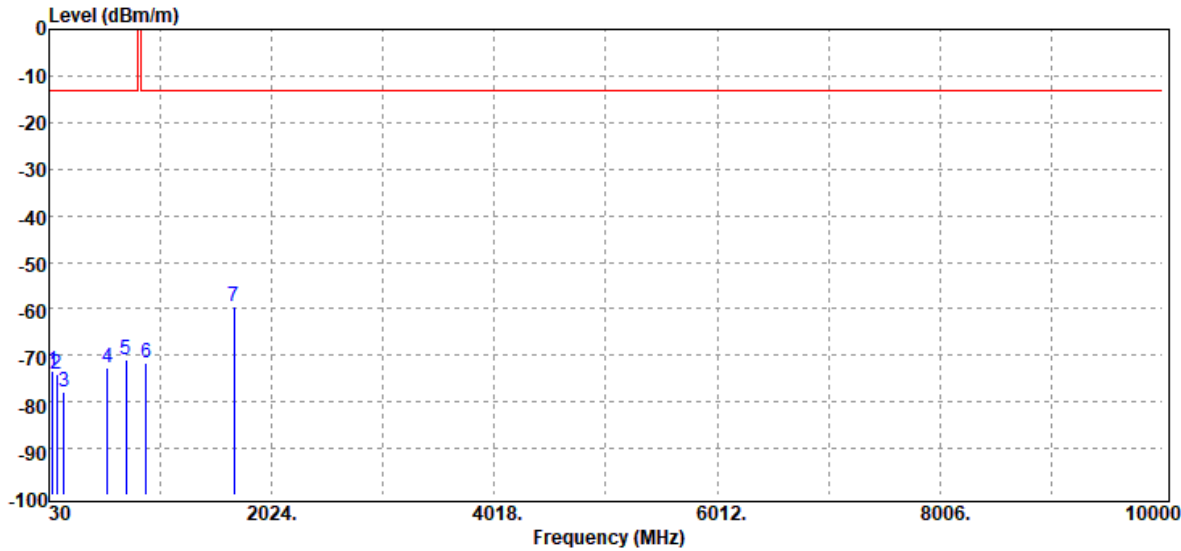
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Report Number :ER/2020/30084
Operation Mode :2A_n5A
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1950 MHz_841.5 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
59.10	-73.22	-57.31	-15.18	-0.73	-13.00	-60.22
97.90	-74.04	-67.31	-5.79	-0.94	-13.00	-61.04
163.86	-77.86	-69.98	-6.65	-1.23	-13.00	-64.86
553.80	-72.72	-69.18	-1.31	-2.23	-13.00	-59.72
719.67	-70.83	-67.00	-1.19	-2.64	-13.00	-57.83
898.15	-71.79	-67.19	-1.62	-2.98	-13.00	-58.79
1683.00	-59.40	-65.29	9.80	-3.91	-13.00	-46.40

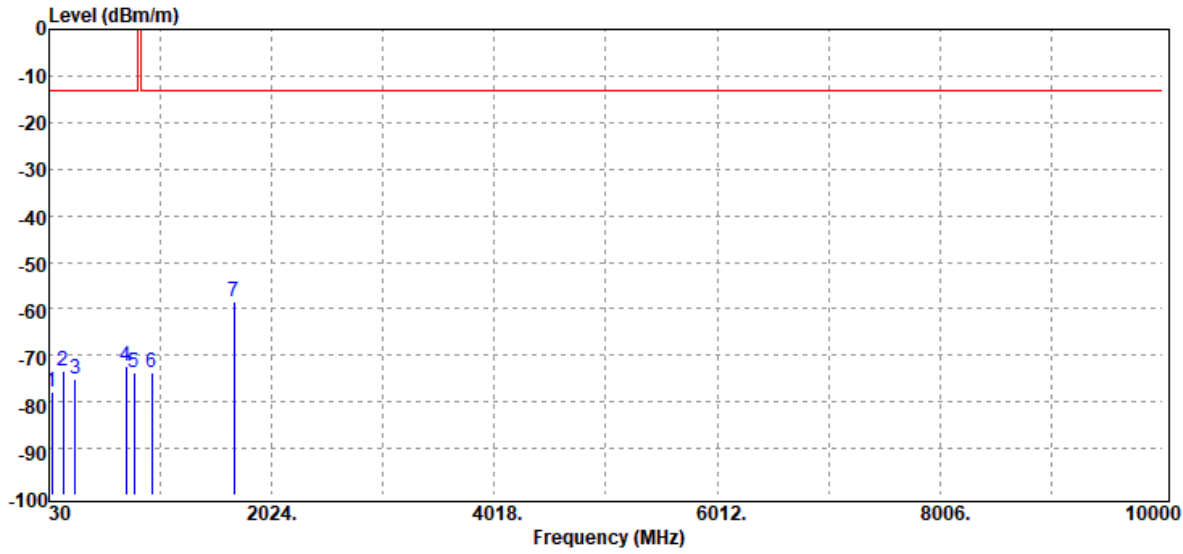
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Report Number :ER/2020/30084
Operation Mode :2A_n5A
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1950 MHz_841.5 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.16	-77.97	-61.61	-15.65	-0.71	-13.00	-64.97
159.01	-73.33	-65.12	-7.00	-1.21	-13.00	-60.33
267.65	-75.13	-71.86	-1.74	-1.53	-13.00	-62.13
716.76	-72.38	-68.51	-1.28	-2.59	-13.00	-59.38
794.36	-73.77	-69.41	-1.61	-2.75	-13.00	-60.77
946.65	-73.75	-69.06	-1.97	-2.72	-13.00	-60.75
1683.00	-58.40	-64.29	9.80	-3.91	-13.00	-45.40

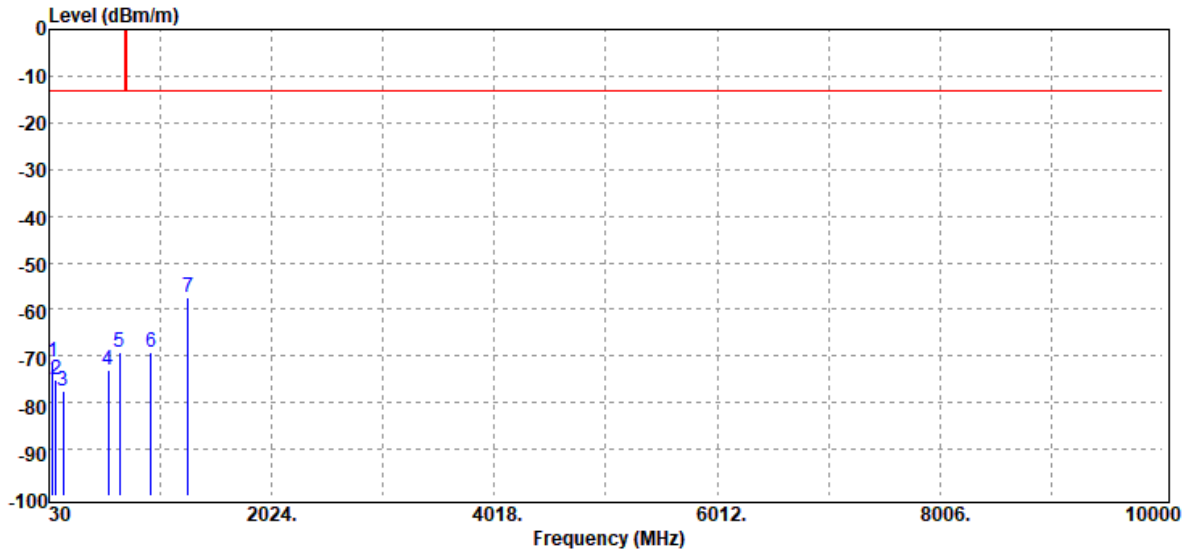
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Report Number :ER/2020/30084
 Operation Mode :2A_n71A
 Test Mode :Tx CH Low
 EUT Pol :E1 Plane
 Test Frequency :1880 MHz_637 MHz

Test Site :SAC I Chamber
 Test Date :2020-07-14
 Temp./Humi. :26.5/62
 Antenna Pol. :VERTICAL
 Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-71.23	-55.87	-14.61	-0.75	-13.00	-58.23
91.11	-74.97	-68.42	-5.64	-0.91	-13.00	-61.97
158.04	-77.35	-69.09	-7.05	-1.21	-13.00	-64.35
556.71	-73.04	-69.43	-1.35	-2.26	-13.00	-60.04
658.56	-69.34	-65.35	-1.33	-2.66	-13.00	-56.34
939.86	-69.16	-64.56	-1.97	-2.63	-13.00	-56.16
1274.00	-57.43	-60.94	6.90	-3.39	-13.00	-44.43

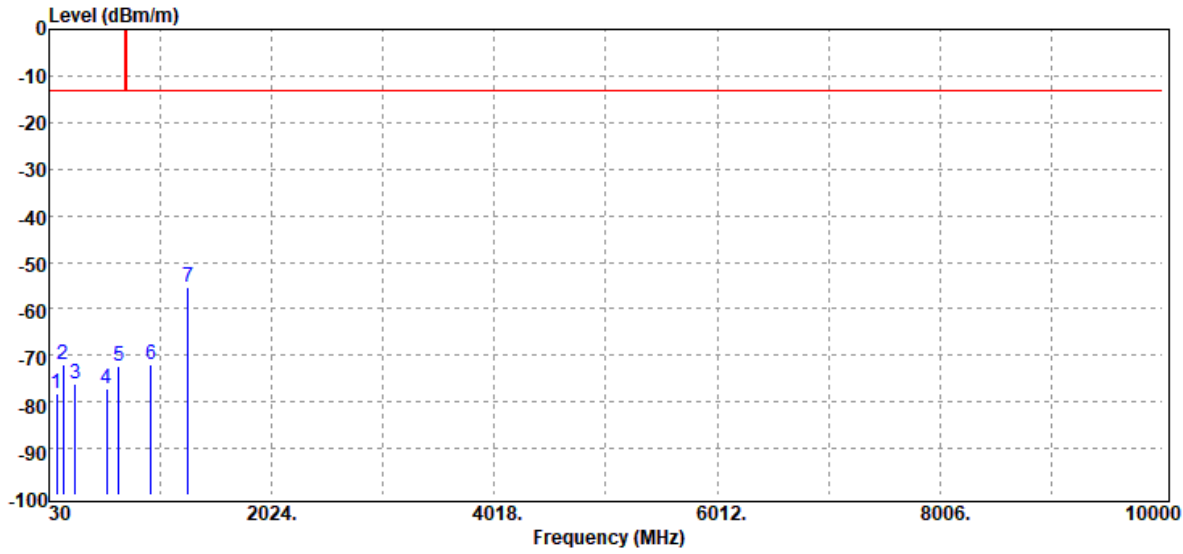
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Report Number :ER/2020/30084
Operation Mode :2A_n71A
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :1880 MHz_637 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.81	-78.13	-70.98	-6.20	-0.95	-13.00	-65.13
159.01	-72.14	-63.93	-7.00	-1.21	-13.00	-59.14
267.65	-76.02	-72.75	-1.74	-1.53	-13.00	-63.02
548.95	-77.21	-73.82	-1.22	-2.17	-13.00	-64.21
657.59	-72.46	-68.50	-1.32	-2.64	-13.00	-59.46
939.86	-72.01	-67.41	-1.97	-2.63	-13.00	-59.01
1274.00	-55.52	-59.03	6.90	-3.39	-13.00	-42.52

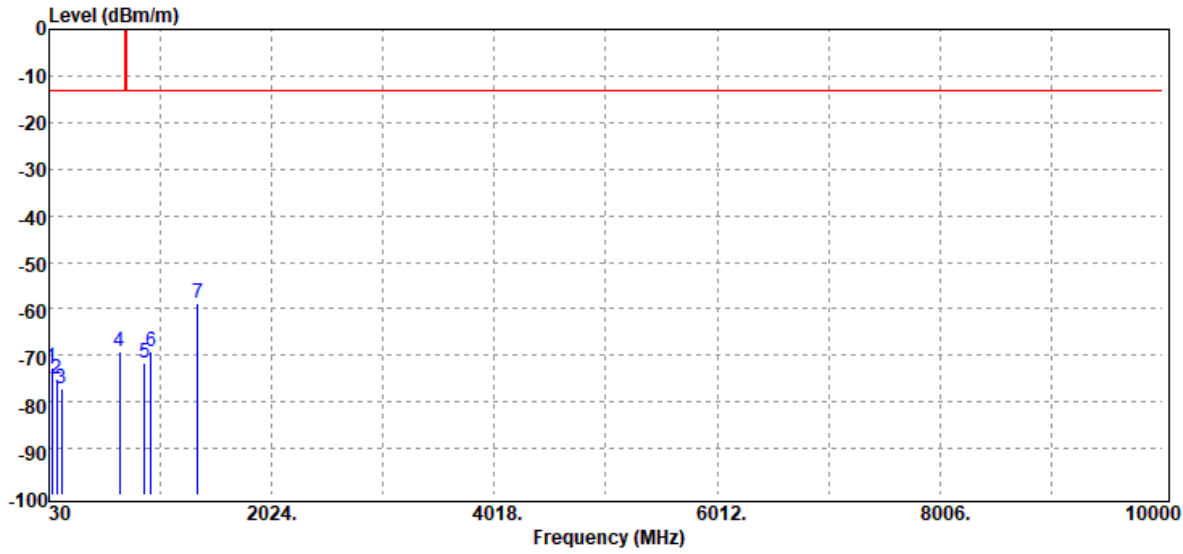
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Report Number :ER/2020/30084
Operation Mode :2A_n71A
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :1880 MHz_680.5 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :VERTICAL
Engineer :Neo



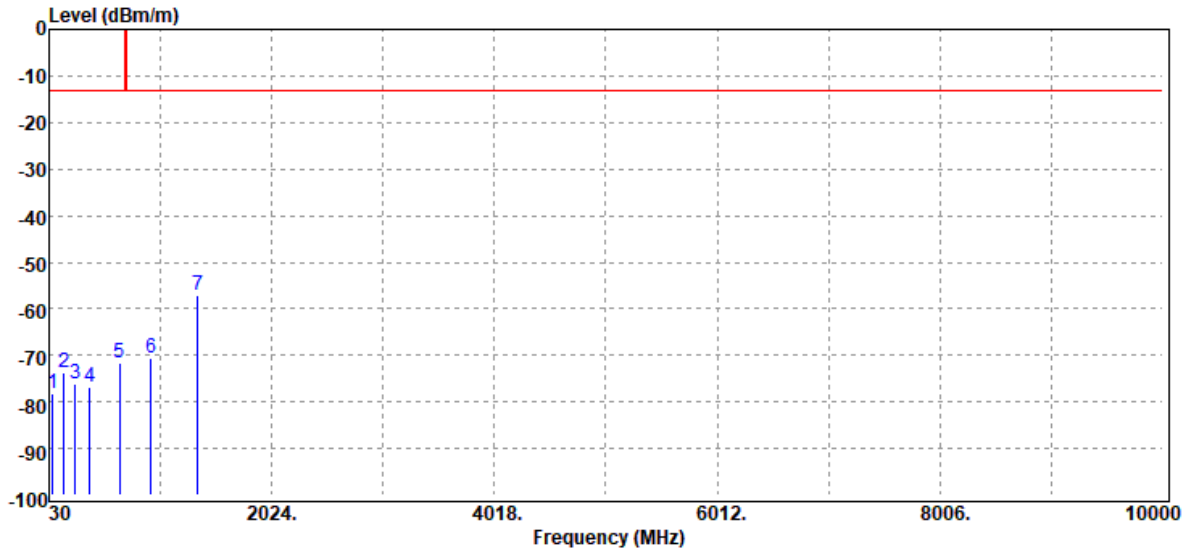
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.16	-72.72	-56.36	-15.65	-0.71	-13.00	-59.72
99.84	-75.00	-68.04	-6.01	-0.95	-13.00	-62.00
138.64	-77.21	-68.18	-7.95	-1.08	-13.00	-64.21
660.50	-69.10	-65.07	-1.34	-2.69	-13.00	-56.10
881.66	-71.63	-67.18	-1.45	-3.00	-13.00	-58.63
939.86	-69.37	-64.77	-1.97	-2.63	-13.00	-56.37
1361.00	-58.95	-62.67	7.23	-3.51	-13.00	-45.95

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Report Number :ER/2020/30084
 Operation Mode :2A_n71A
 Test Mode :Tx CH Mid
 EUT Pol :E1 Plane
 Test Frequency :1880 MHz_680.5 MHz

Test Site :SAC I Chamber
 Test Date :2020-07-14
 Temp./Humi. :26.5/62
 Antenna Pol. :HORIZONTAL
 Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
65.89	-78.21	-64.33	-13.09	-0.79	-13.00	-65.21
160.95	-73.62	-65.61	-6.80	-1.21	-13.00	-60.62
265.71	-76.08	-72.87	-1.68	-1.53	-13.00	-63.08
395.69	-76.98	-73.56	-1.58	-1.84	-13.00	-63.98
660.50	-71.59	-67.56	-1.34	-2.69	-13.00	-58.59
939.86	-70.57	-65.97	-1.97	-2.63	-13.00	-57.57
1361.00	-57.24	-60.96	7.23	-3.51	-13.00	-44.24

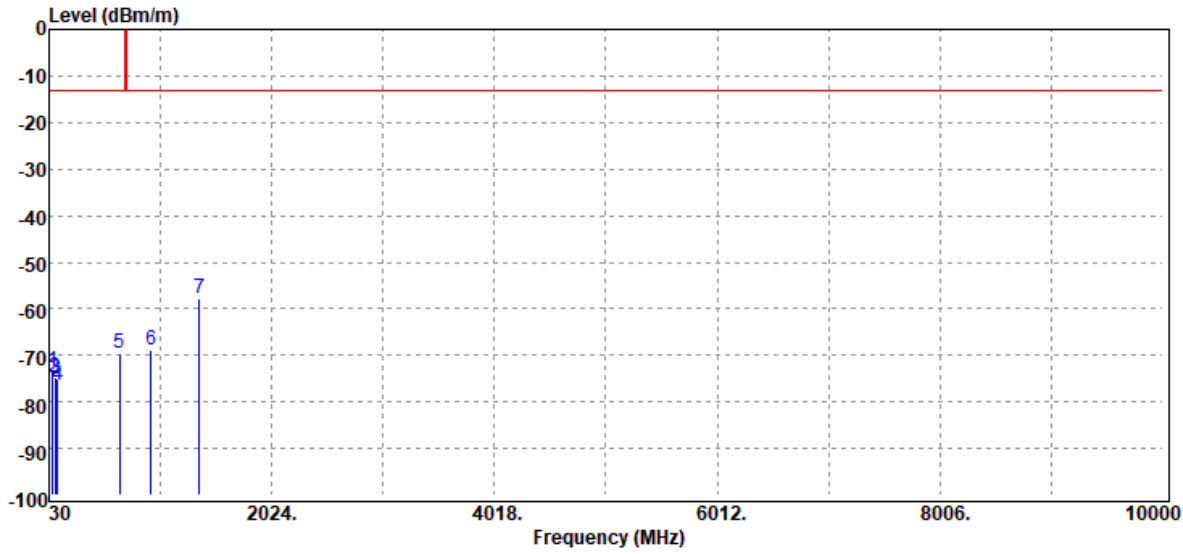
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Report Number :ER/2020/30084
 Operation Mode :2A_n71A
 Test Mode :Tx CH High
 EUT Pol :E1 Plane
 Test Frequency :1880 MHz_688 MHz

Test Site :SAC I Chamber
 Test Date :2020-07-14
 Temp./Humi. :26.5/62
 Antenna Pol. :VERTICAL
 Engineer :Neo



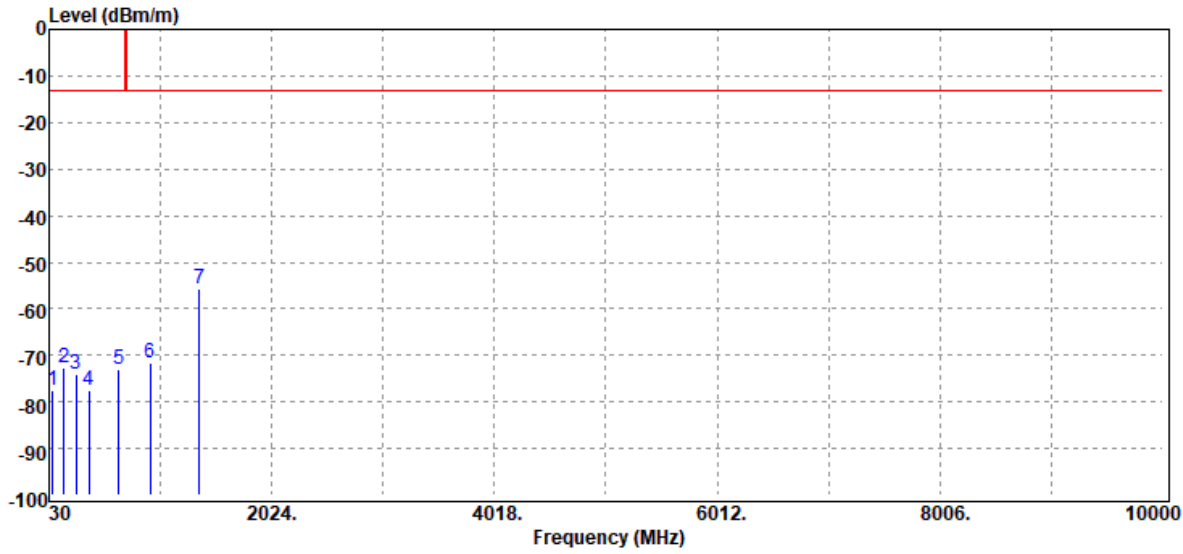
Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
62.98	-73.36	-58.54	-14.05	-0.77	-13.00	-60.36
86.26	-74.76	-67.12	-6.76	-0.88	-13.00	-61.76
99.84	-75.23	-68.27	-6.01	-0.95	-13.00	-62.23
108.57	-76.56	-68.53	-7.03	-1.00	-13.00	-63.56
658.56	-69.48	-65.49	-1.33	-2.66	-13.00	-56.48
941.80	-68.84	-64.20	-1.98	-2.66	-13.00	-55.84
1376.00	-57.68	-61.56	7.41	-3.53	-13.00	-44.68

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Report Number :ER/2020/30084
Operation Mode :2A_n71A
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :1880 MHz_688 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo


Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
63.95	-77.47	-62.79	-13.91	-0.77	-13.00	-64.47
160.95	-72.61	-64.60	-6.80	-1.21	-13.00	-59.61
269.59	-74.12	-70.80	-1.79	-1.53	-13.00	-61.12
386.96	-77.59	-74.28	-1.51	-1.80	-13.00	-64.59
657.59	-72.90	-68.94	-1.32	-2.64	-13.00	-59.90
936.95	-71.75	-67.10	-1.99	-2.66	-13.00	-58.75
1376.00	-55.87	-59.75	7.41	-3.53	-13.00	-42.87

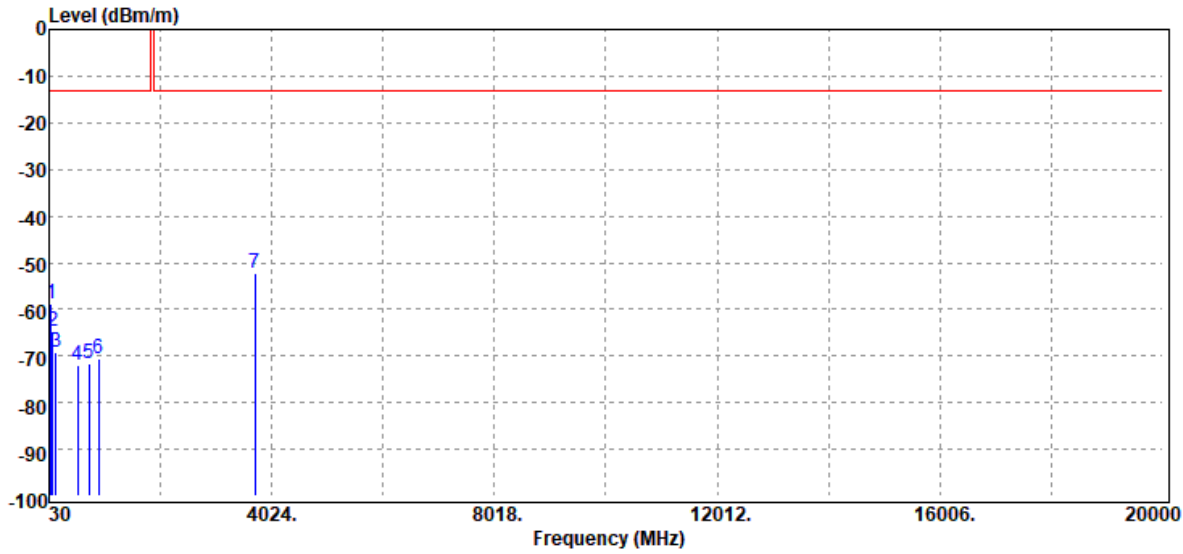
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Report Number :ER/2020/30084
Operation Mode :5A_n2A
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :836.5 MHz_1860 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
63.95	-58.92	-44.24	-13.91	-0.77	-13.00	-45.92
89.17	-64.71	-57.80	-6.01	-0.90	-13.00	-51.71
159.01	-69.08	-60.87	-7.00	-1.21	-13.00	-56.08
548.95	-72.13	-68.74	-1.22	-2.17	-13.00	-59.13
742.95	-71.70	-67.12	-1.77	-2.81	-13.00	-58.70
925.31	-70.65	-65.95	-1.91	-2.79	-13.00	-57.65
3720.00	-52.26	-58.84	12.40	-5.82	-13.00	-39.26

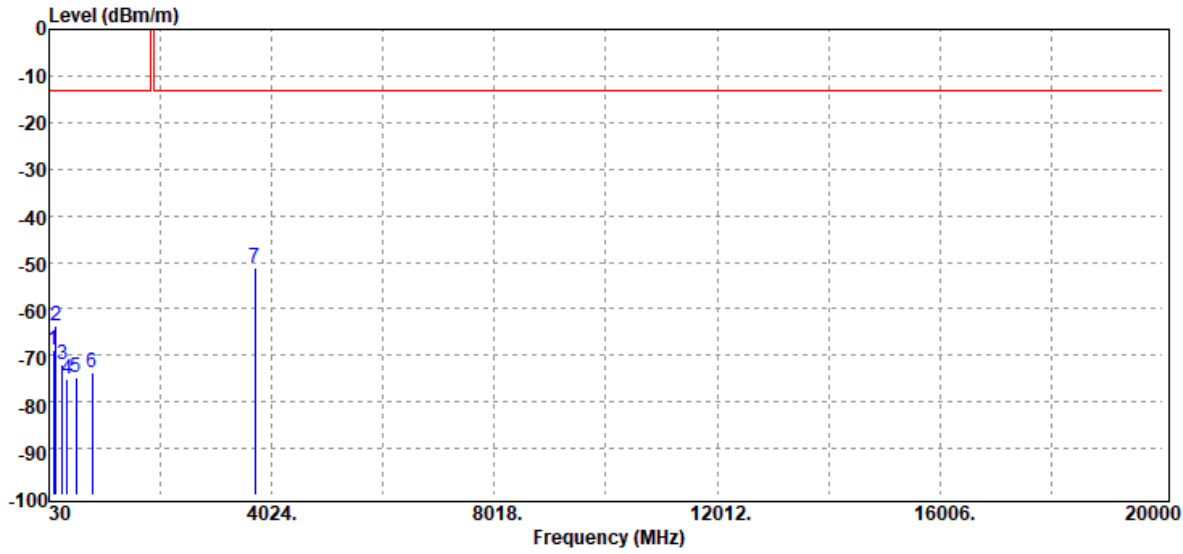
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Report Number :ER/2020/30084
Operation Mode :5A_n2A
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :836.5 MHz_1860 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
102.75	-68.79	-61.39	-6.44	-0.96	-13.00	-55.79
159.01	-63.70	-55.49	-7.00	-1.21	-13.00	-50.70
267.65	-71.86	-68.59	-1.74	-1.53	-13.00	-58.86
357.86	-75.09	-71.85	-1.51	-1.73	-13.00	-62.09
517.91	-74.78	-71.13	-1.44	-2.21	-13.00	-61.78
801.15	-73.68	-69.28	-1.58	-2.82	-13.00	-60.68
3720.00	-51.07	-57.65	12.40	-5.82	-13.00	-38.07

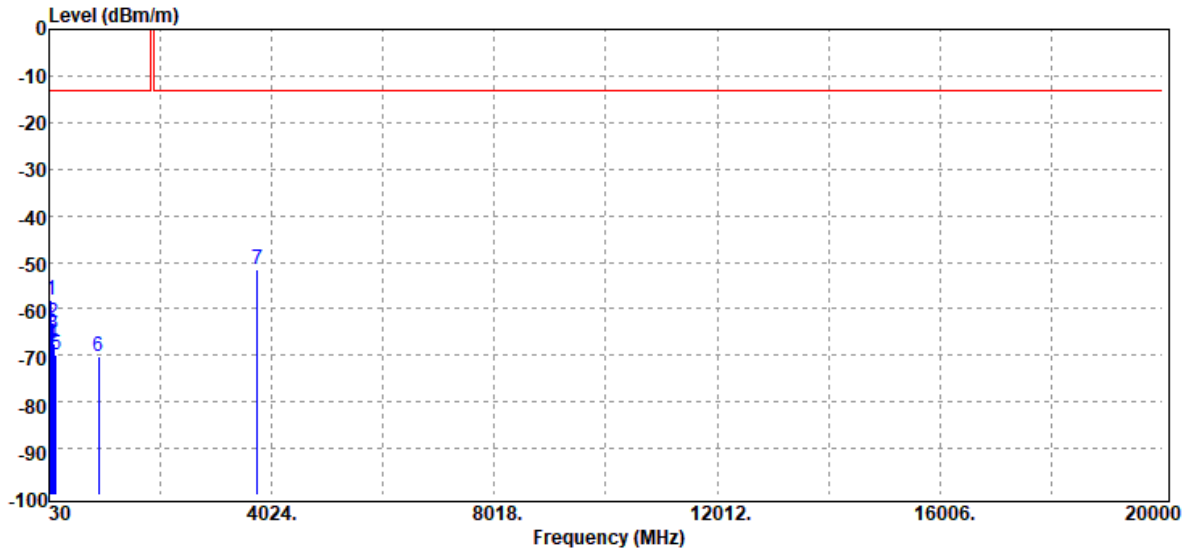
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Report Number :ER/2020/30084
Operation Mode :5A_n2A
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :836.5 MHz_1880 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :VERTICAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
59.10	-58.06	-42.15	-15.18	-0.73	-13.00	-45.06
88.20	-63.06	-55.97	-6.20	-0.89	-13.00	-50.06
99.84	-65.37	-58.41	-6.01	-0.95	-13.00	-52.37
109.54	-67.39	-59.30	-7.09	-1.00	-13.00	-54.39
153.19	-69.97	-61.43	-7.32	-1.22	-13.00	-56.97
915.61	-70.17	-65.44	-1.80	-2.93	-13.00	-57.17
3760.00	-51.49	-58.15	12.40	-5.74	-13.00	-38.49

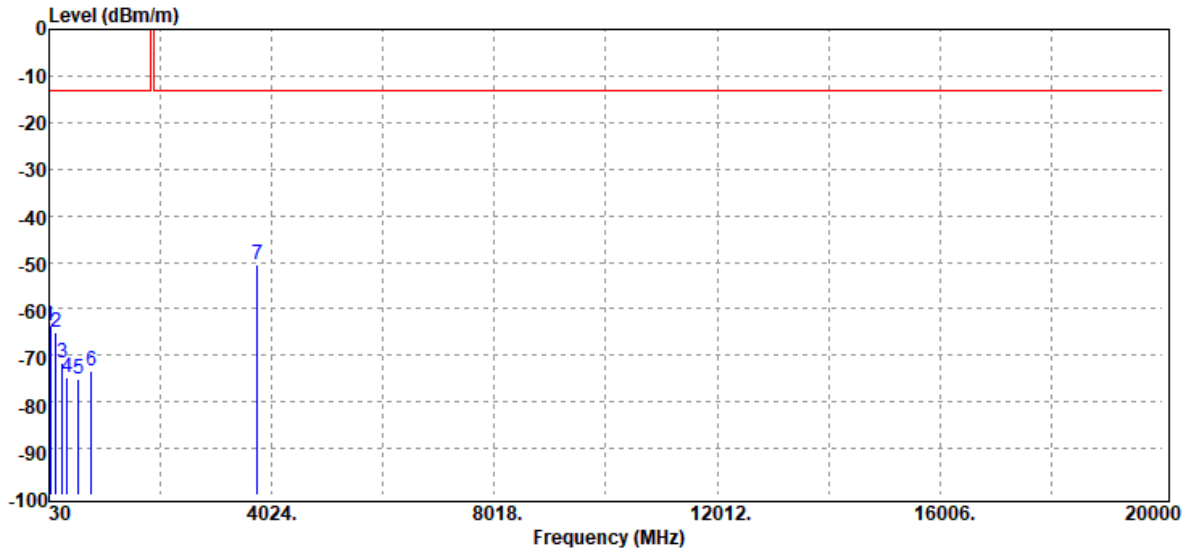
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Report Number :ER/2020/30084
Operation Mode :5A_n2A
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :836.5 MHz_1880 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.16	-63.75	-47.39	-15.65	-0.71	-13.00	-50.75
156.10	-65.11	-56.73	-7.17	-1.21	-13.00	-52.11
265.71	-71.70	-68.49	-1.68	-1.53	-13.00	-58.70
357.86	-74.74	-71.50	-1.51	-1.73	-13.00	-61.74
555.74	-75.13	-71.54	-1.34	-2.25	-13.00	-62.13
784.66	-73.49	-69.29	-1.73	-2.47	-13.00	-60.49
3760.00	-50.45	-57.11	12.40	-5.74	-13.00	-37.45

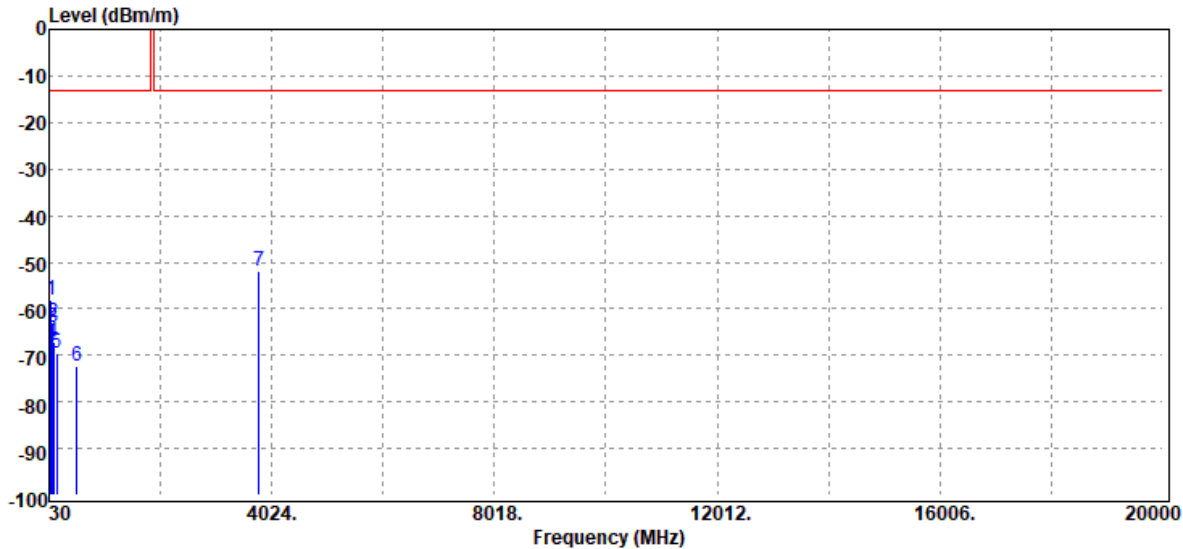
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Report Number :ER/2020/30084
Operation Mode :5A_n2A
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :836.5 MHz_1900 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :VERTICAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
61.04	-58.26	-42.90	-14.61	-0.75	-13.00	-45.26
88.20	-63.12	-56.03	-6.20	-0.89	-13.00	-50.12
99.84	-64.12	-57.16	-6.01	-0.95	-13.00	-51.12
107.60	-67.05	-59.11	-6.95	-0.99	-13.00	-54.05
162.89	-69.47	-61.46	-6.79	-1.22	-13.00	-56.47
531.49	-72.41	-69.22	-1.35	-1.84	-13.00	-59.41
3800.00	-51.80	-58.54	12.40	-5.66	-13.00	-38.80

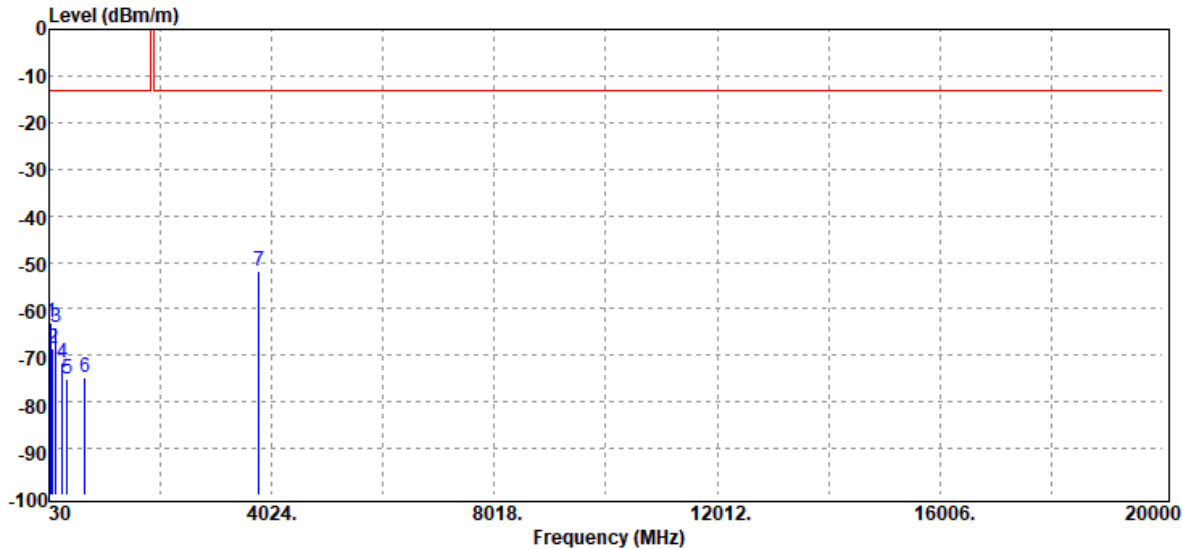
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Report Number :ER/2020/30084
Operation Mode :5A_n2A
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :836.5 MHz_1900 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
62.01	-63.06	-47.92	-14.38	-0.76	-13.00	-50.06
95.96	-68.41	-61.90	-5.58	-0.93	-13.00	-55.41
159.01	-64.17	-55.96	-7.00	-1.21	-13.00	-51.17
270.56	-71.77	-68.45	-1.79	-1.53	-13.00	-58.77
359.80	-75.20	-71.99	-1.50	-1.71	-13.00	-62.20
675.05	-74.79	-70.78	-1.44	-2.57	-13.00	-61.79
3800.00	-51.94	-58.68	12.40	-5.66	-13.00	-38.94

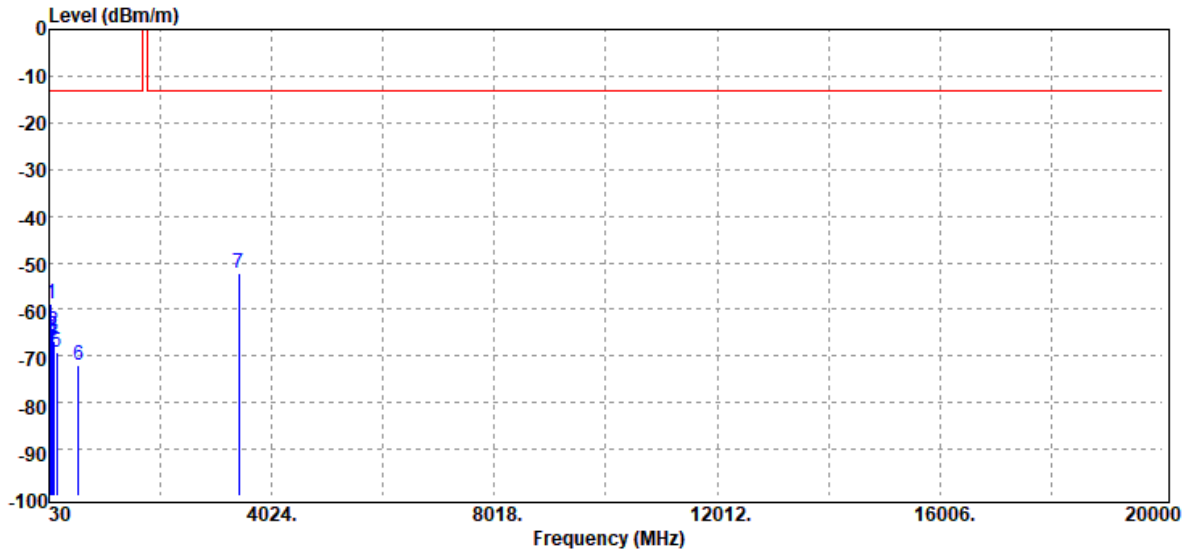
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Report Number :ER/2020/30084
Operation Mode :5A_n66A
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :836.5 MHz_1715 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :VERTICAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
59.10	-58.92	-43.01	-15.18	-0.73	-13.00	-45.92
90.14	-64.78	-58.07	-5.81	-0.90	-13.00	-51.78
99.84	-65.77	-58.81	-6.01	-0.95	-13.00	-52.77
109.54	-66.68	-58.59	-7.09	-1.00	-13.00	-53.68
160.95	-69.38	-61.37	-6.80	-1.21	-13.00	-56.38
560.59	-72.12	-68.47	-1.37	-2.28	-13.00	-59.12
3430.00	-52.19	-59.67	12.70	-5.22	-13.00	-39.19

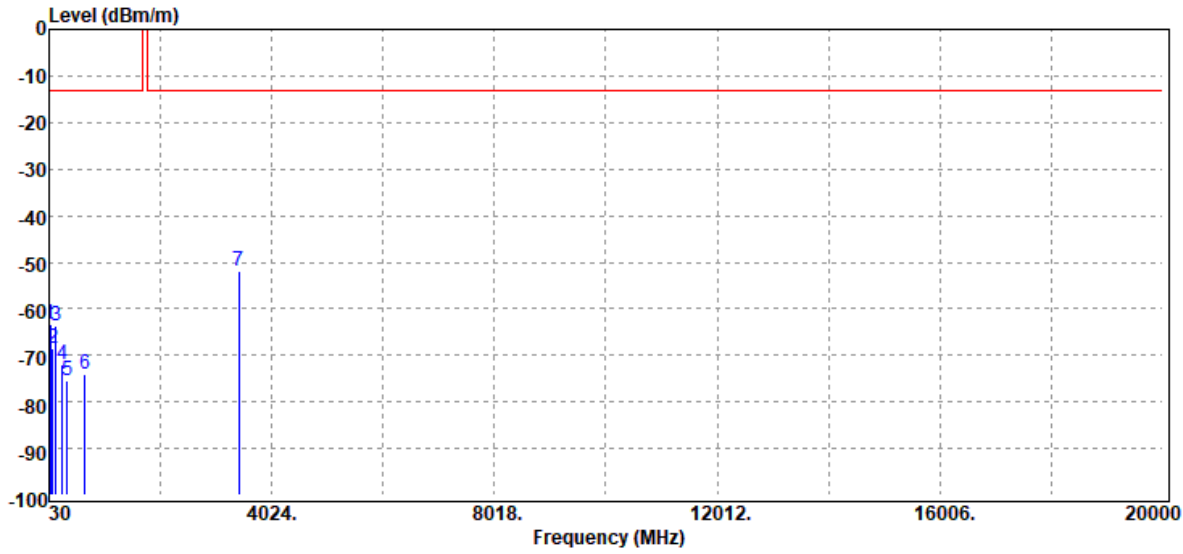
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Report Number :ER/2020/30084
Operation Mode :5A_n66A
Test Mode :Tx CH Low
EUT Pol :E1 Plane
Test Frequency :836.5 MHz_1715 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.16	-63.40	-47.04	-15.65	-0.71	-13.00	-50.40
95.96	-68.46	-61.95	-5.58	-0.93	-13.00	-55.46
158.04	-63.71	-55.45	-7.05	-1.21	-13.00	-50.71
269.59	-72.07	-68.75	-1.79	-1.53	-13.00	-59.07
354.95	-75.44	-72.15	-1.52	-1.77	-13.00	-62.44
676.99	-74.20	-70.27	-1.45	-2.48	-13.00	-61.20
3430.00	-52.02	-59.50	12.70	-5.22	-13.00	-39.02

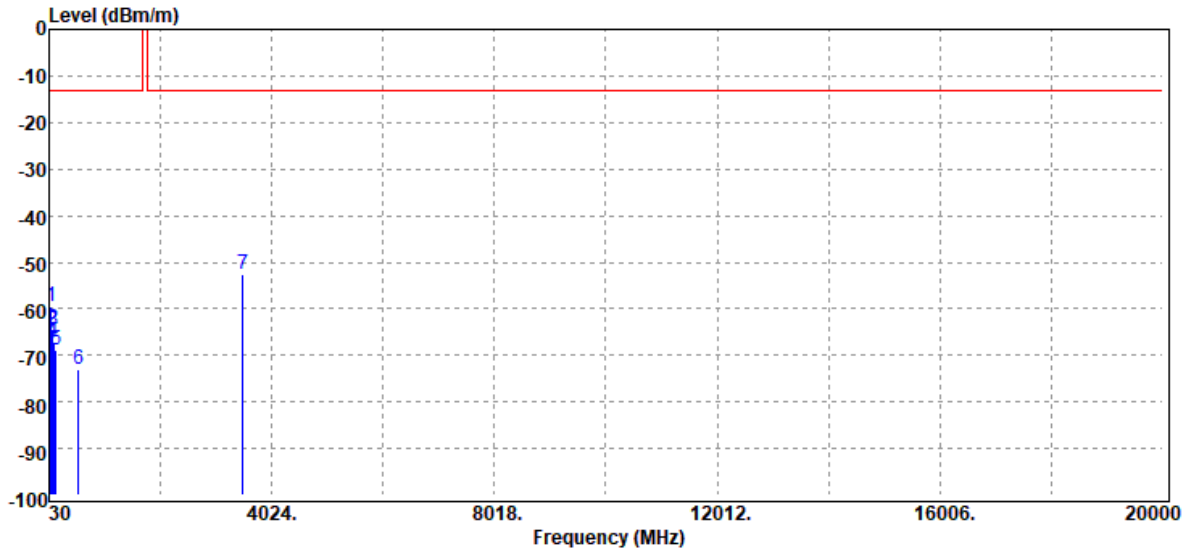
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Report Number :ER/2020/30084
Operation Mode :5A_n66A
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :836.5 MHz_1755 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :VERTICAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
62.01	-59.54	-44.40	-14.38	-0.76	-13.00	-46.54
90.14	-64.20	-57.49	-5.81	-0.90	-13.00	-51.20
99.84	-64.65	-57.69	-6.01	-0.95	-13.00	-51.65
108.57	-67.28	-59.25	-7.03	-1.00	-13.00	-54.28
159.01	-68.81	-60.60	-7.00	-1.21	-13.00	-55.81
553.80	-72.98	-69.44	-1.31	-2.23	-13.00	-59.98
3510.00	-52.43	-58.98	12.46	-5.91	-13.00	-39.43

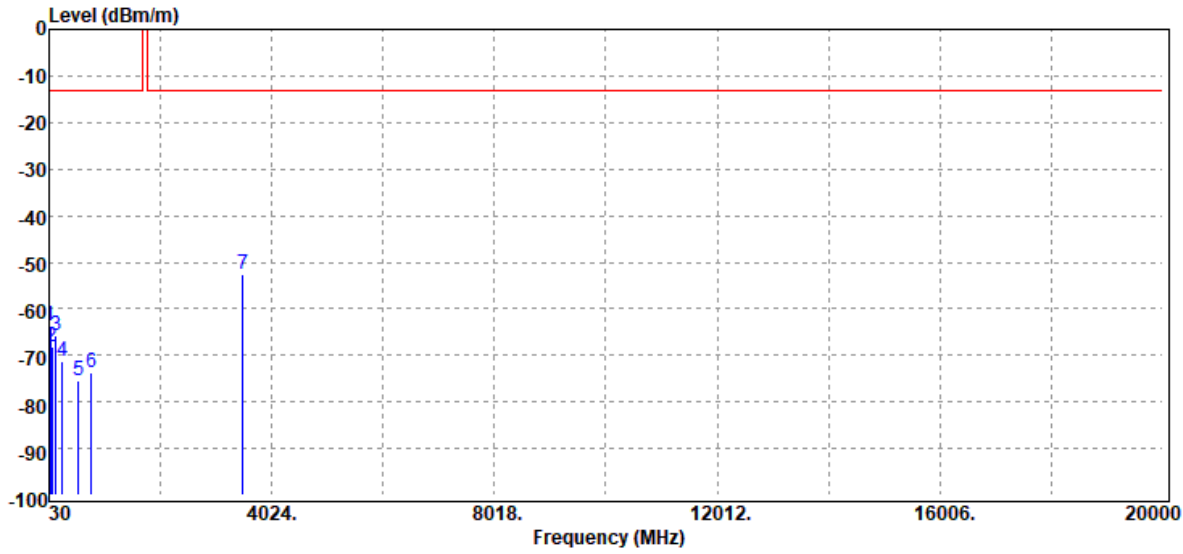
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Report Number :ER/2020/30084
Operation Mode :5A_n66A
Test Mode :Tx CH Mid
EUT Pol :E1 Plane
Test Frequency :836.5 MHz_1755 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
57.16	-63.50	-47.14	-15.65	-0.71	-13.00	-50.50
86.26	-68.01	-60.37	-6.76	-0.88	-13.00	-55.01
153.19	-65.74	-57.20	-7.32	-1.22	-13.00	-52.74
270.56	-71.36	-68.04	-1.79	-1.53	-13.00	-58.36
558.65	-75.49	-71.86	-1.36	-2.27	-13.00	-62.49
784.66	-73.65	-69.45	-1.73	-2.47	-13.00	-60.65
3510.00	-52.65	-59.20	12.46	-5.91	-13.00	-39.65

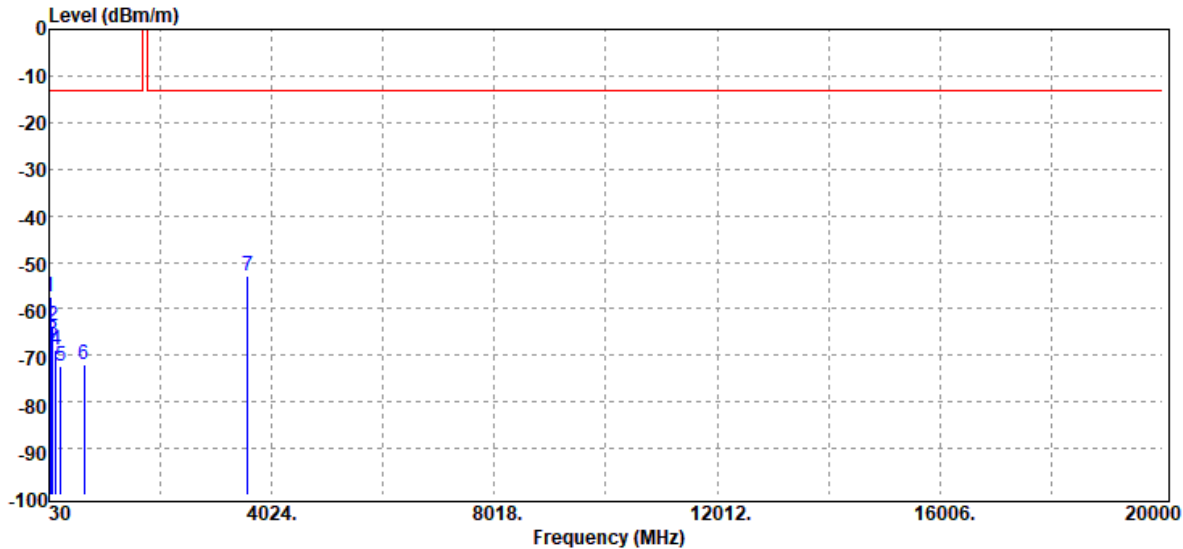
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Report Number :ER/2020/30084
Operation Mode :5A_n66A
Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :836.5 MHz_1795 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :VERTICAL
Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
57.16	-57.29	-40.93	-15.65	-0.71	-13.00	-44.29
90.14	-63.77	-57.06	-5.81	-0.90	-13.00	-50.77
100.81	-66.75	-59.60	-6.20	-0.95	-13.00	-53.75
159.01	-68.84	-60.63	-7.00	-1.21	-13.00	-55.84
240.49	-72.30	-69.10	-1.72	-1.48	-13.00	-59.30
663.41	-72.03	-67.94	-1.36	-2.73	-13.00	-59.03
3590.00	-52.95	-59.31	12.30	-5.94	-13.00	-39.95

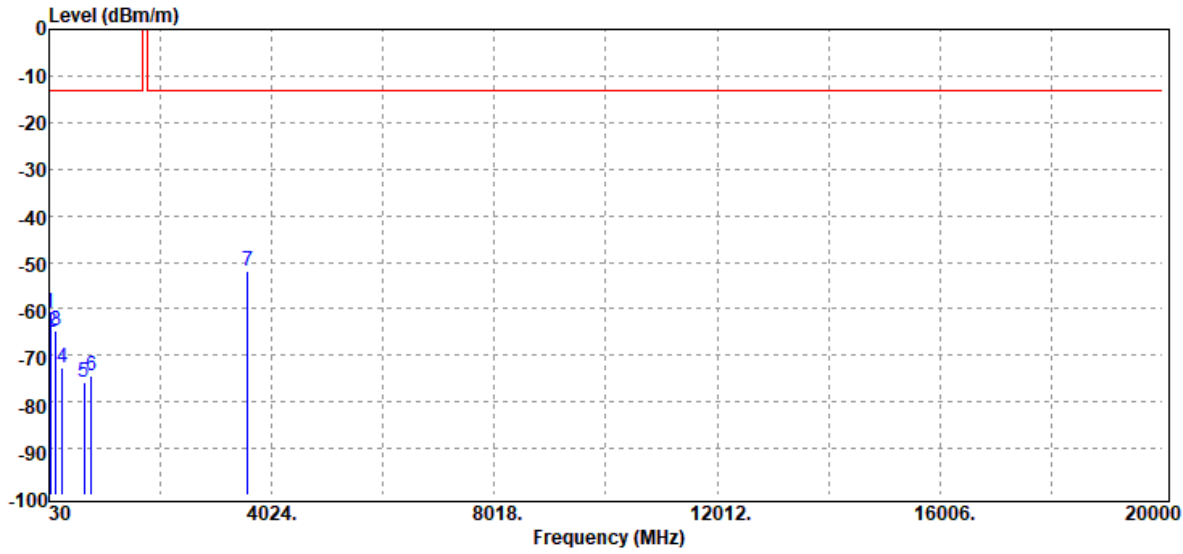
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Test Mode :Tx CH High
EUT Pol :E1 Plane
Test Frequency :836.5 MHz_1795 MHz

Test Site :SAC I Chamber
Test Date :2020-07-14
Temp./Humi. :26.5/62
Antenna Pol. :HORIZONTAL
Engineer :Neo



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
57.16	-60.81	-44.45	-15.65	-0.71	-13.00	-47.81
65.89	-65.13	-51.25	-13.09	-0.79	-13.00	-52.13
158.04	-64.83	-56.57	-7.05	-1.21	-13.00	-51.83
267.65	-72.67	-69.40	-1.74	-1.53	-13.00	-59.67
663.41	-75.66	-71.57	-1.36	-2.73	-13.00	-62.66
781.75	-74.54	-70.49	-1.70	-2.35	-13.00	-61.54
3590.00	-52.01	-58.37	12.30	-5.94	-13.00	-39.01

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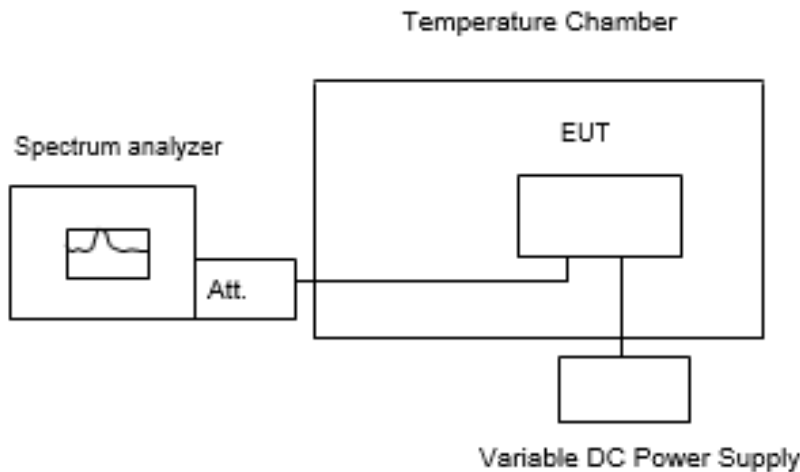
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10 FREQUENCY STABILITY MEASUREMENT

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

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/16/2019	12/15/2020
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-LAMBDA	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

10.5 Measurement Result

Note: The battery is rated 3.85V dc.

NR Band 2				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	15	kHz	1880	MHz 20M CH 376000
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	1880.000026	26	4700
3.85	25	1879.999989	-11	4700
3.65	25	1880.000012	12	4700
3.35	25	1880.000007	7	4700
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	1880.000030	30	4700
3.85	-20	1880.000005	5	4700
3.85	-10	1880.000017	17	4700
3.85	0	1879.999982	-18	4700
3.85	10	1879.999996	-4	4700
3.85	20	1879.999977	-23	4700
3.85	30	1879.999976	-24	4700
3.85	40	1880.000020	20	4700
3.85	50	1879.999993	-7	4700

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NR Band 5				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	15	kHz	836.5	MHz 20M CH 167300
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	836.500015	15	2091
3.85	25	836.500013	13	2091
3.65	25	836.500011	11	2091
3.35	25	836.499990	-10	2091
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	836.500005	5	2091
3.85	-20	836.499983	-17	2091
3.85	-10	836.500008	8	2091
3.85	0	836.499985	-15	2091
3.85	10	836.499977	-23	2091
3.85	20	836.500011	11	2091
3.85	30	836.499977	-23	2091
3.85	40	836.499993	-7	2091
3.85	50	836.499999	-1	2091
NR Band 41				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	30	kHz	2592.99	MHz 100M CH 518598
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	2592.990001	1	6482
3.85	25	2592.989972	-28	6482
3.65	25	2592.990002	2	6482
3.35	25	2592.990005	5	6482
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	2592.989972	-28	6482
3.85	-20	2592.989971	-29	6482
3.85	-10	2592.989996	-4	6482
3.85	0	2592.990005	5	6482
3.85	10	2592.989971	-29	6482
3.85	20	2592.990020	20	6482
3.85	30	2592.990025	25	6482
3.85	40	2592.990007	7	6482
3.85	50	2592.990008	8	6482

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NR Band 66				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	15	kHz	1745	MHz 20M CH 349000
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	1745.000006	6	4363
3.85	25	1744.999980	-20	4363
3.65	25	1744.999998	-2	4363
3.35	25	1744.999994	-6	4363
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	1745.000004	4	4363
3.85	-20	1745.000003	3	4363
3.85	-10	1745.000018	18	4363
3.85	0	1745.000007	7	4363
3.85	10	1744.999979	-21	4363
3.85	20	1744.999984	-16	4363
3.85	30	1744.999994	-6	4363
3.85	40	1745.000018	18	4363
3.85	50	1744.999972	-28	4363
NR Band 71				
Modulation.:	CP-OFDM QPSK		Reference Freq.:	
SCS.:	15	kHz	680.5	MHz 20M CH 136100
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.35	25	680.499985	-15	1701
3.85	25	680.499996	-4	1701
3.65	25	680.500000	0	1701
3.35	25	680.500012	12	1701
(End Point)				
Freq. ERROR vs. Temp.				
3.85	-30	680.499990	-10	1701
3.85	-20	680.499976	-24	1701
3.85	-10	680.500005	5	1701
3.85	0	680.500023	23	1701
3.85	10	680.499979	-21	1701
3.85	20	680.499988	-12	1701
3.85	30	680.500010	10	1701
3.85	40	680.499971	-29	1701
3.85	50	680.499993	-7	1701

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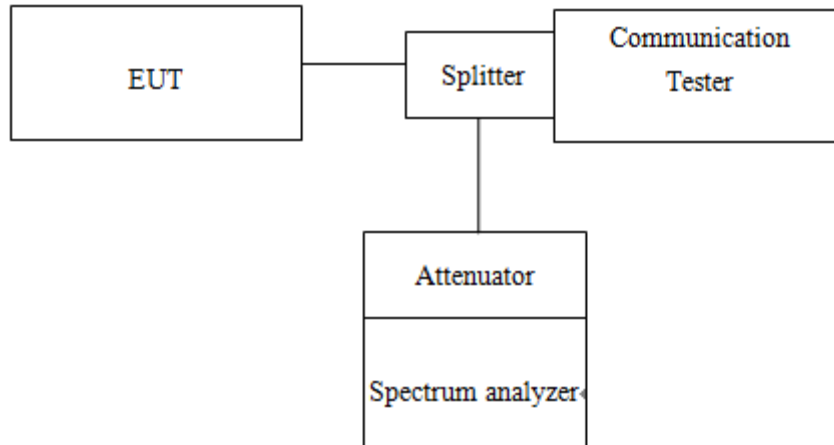
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11 PEAK TO AVERAGE RATIO

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

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/16/2019	12/15/2020
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-LAMBDA	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

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11.5 Measurement Result

NR BAND 2				NR BAND 5			
CP-OFDM_SCS 15 kHz				CP-OFDM_SCS 15 kHz			
Channel bandwidth: 20MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
1860.0	372000	8.68	13	834.0	166800	8.29	13
1880.0	376000	8.56	13	836.5	167300	7.71	13
1900.0	380000	8.69	13	839.0	167800	7.10	13
NR BAND 41				NR BAND 66			
CP-OFDM_SCS 30 kHz				CP-OFDM_SCS 15 kHz			
Channel bandwidth: 100MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit			256QAM	Limit
2546.01	509202	11.44	13	1720	344000	8.33	13
2592.99	518598	11.39	13	1745	349000	8.56	13
2640.00	528000	11.34	13	1770	354000	8.27	13

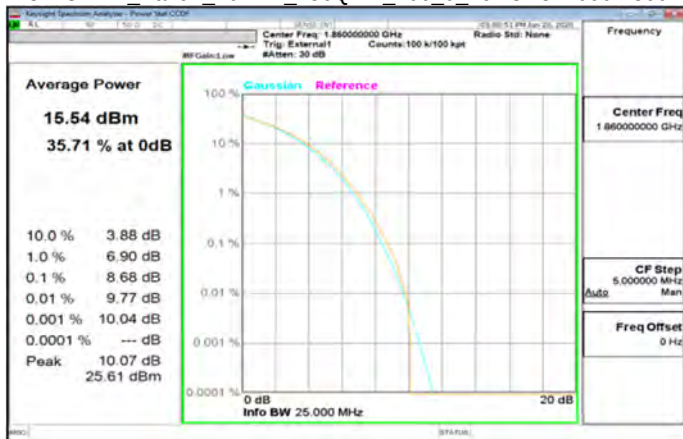
NR BAND 71			
CP-OFDM_SCS 15 kHz			
Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)	
		256QAM	Limit
673.0	134600	8.37	13
680.5	136100	8.30	13
688.0	137600	8.44	13

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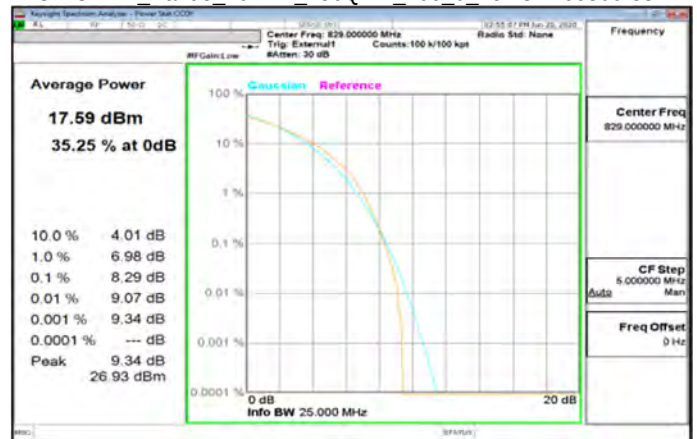
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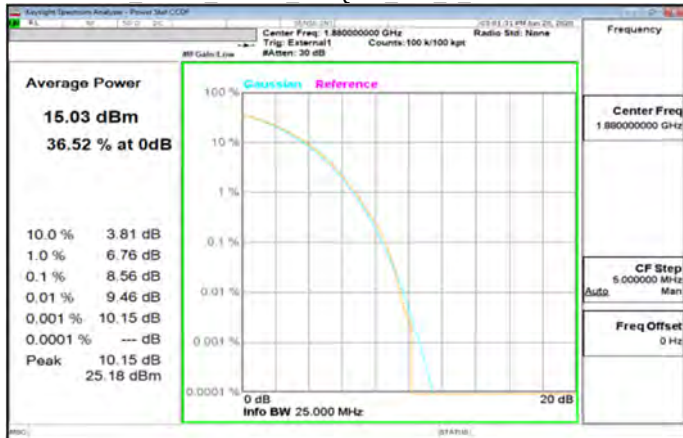
CP-OFDM Band2 20MHz 256QAM 106 0 LowCH372000-1860



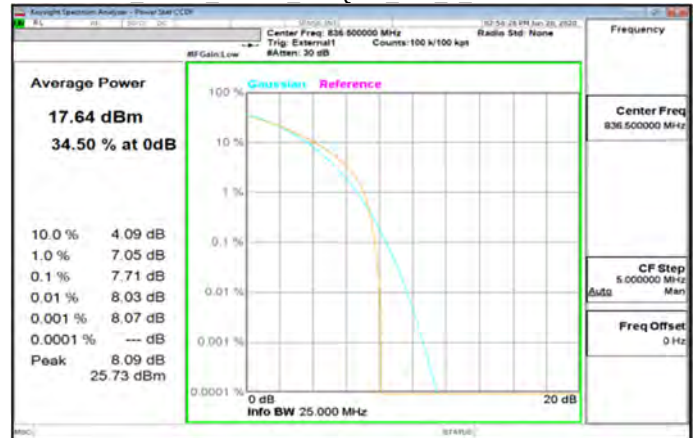
CP-OFDM Band5 20MHz 256QAM 106 0 LowCH166800-834



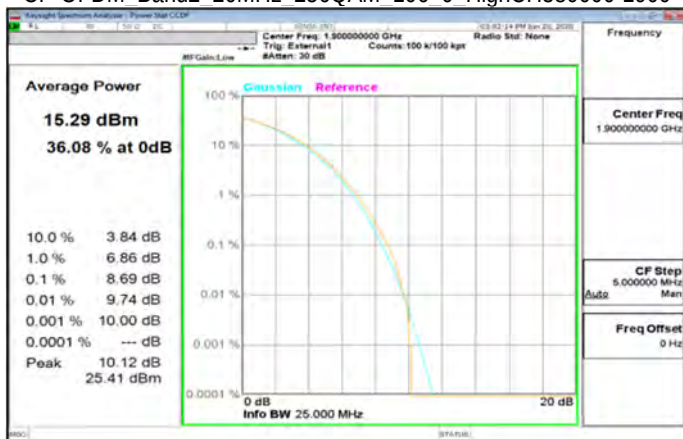
CP-OFDM Band2 20MHz 256QAM 106 0 MidCH376000-1880



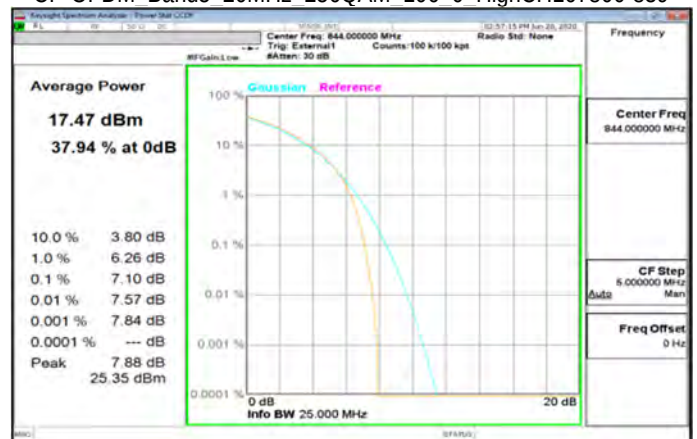
CP-OFDM Band5 20MHz 256QAM 106 0 MidCH167300-836.5



CP-OFDM Band2 20MHz 256QAM 106 0 HighCH380000-1900



CP-OFDM Band5 20MHz 256QAM 106 0 HighCH167800-839

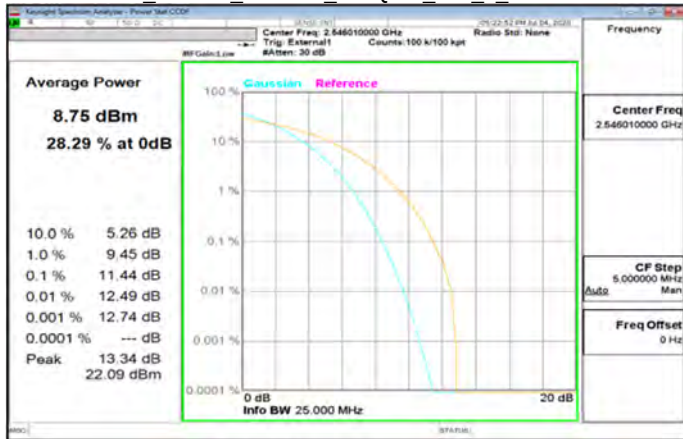


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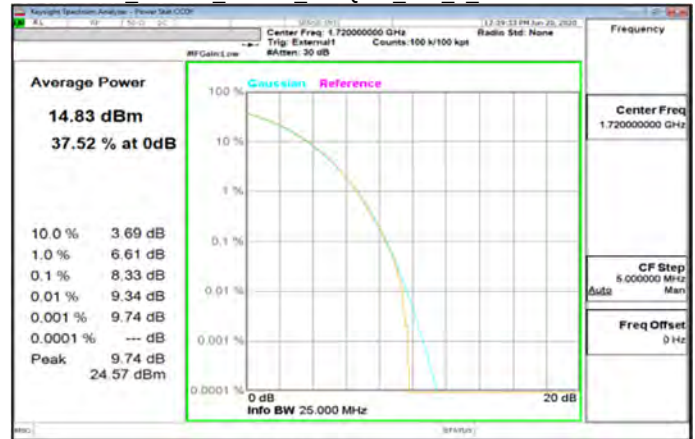
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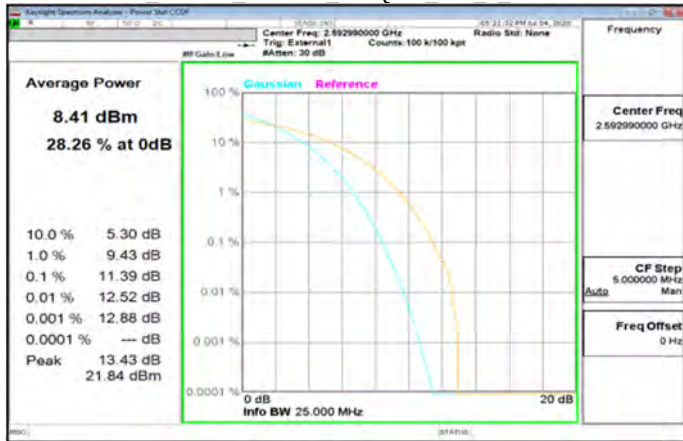
CP-OFDM Band41 100MHz 256QAM 273 0 LowCH509202



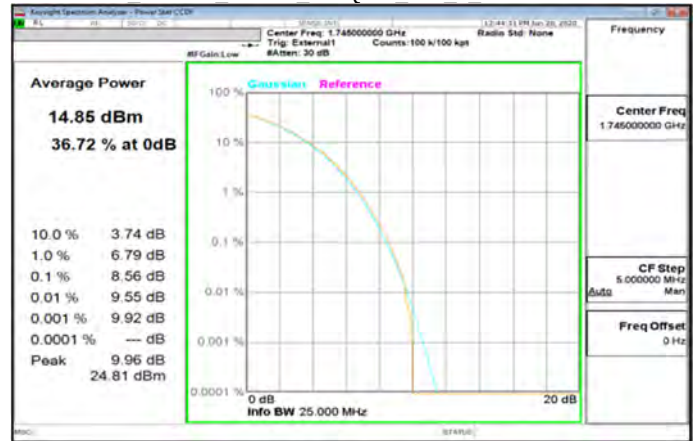
CP-OFDM Band66 20MHz 256QAM 106 0 LowCH344000-1720



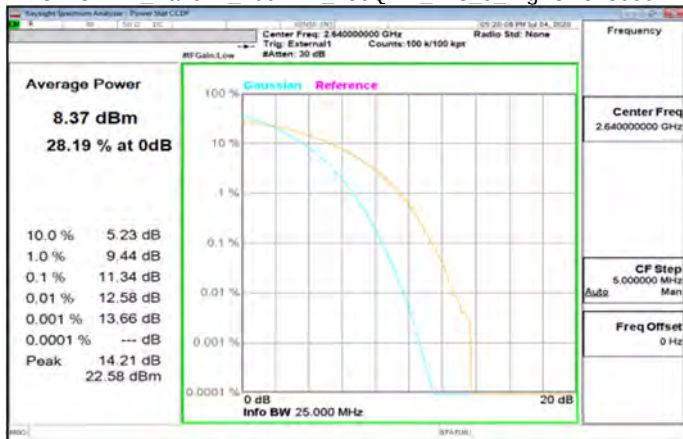
CP-OFDM Band41 100MHz 256QAM 273 0 MidCH518598



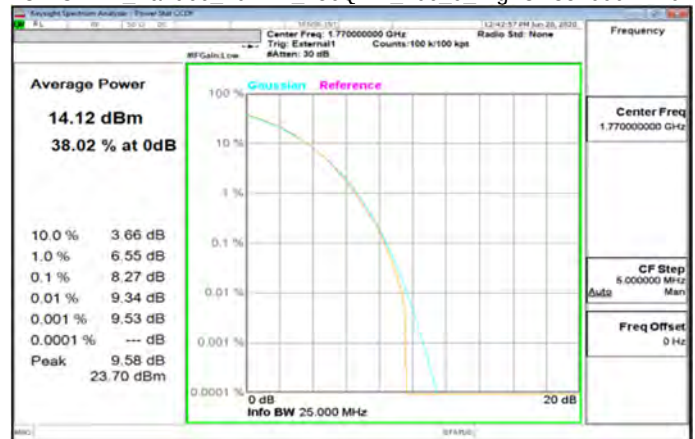
CP-OFDM Band66 20MHz 256QAM 106 0 MidCH349000-1745



CP-OFDM Band41 100MHz 256QAM 273 0 HighCH528000



CP-OFDM Band66 20MHz 256QAM 106 0 HighCH354000-1770



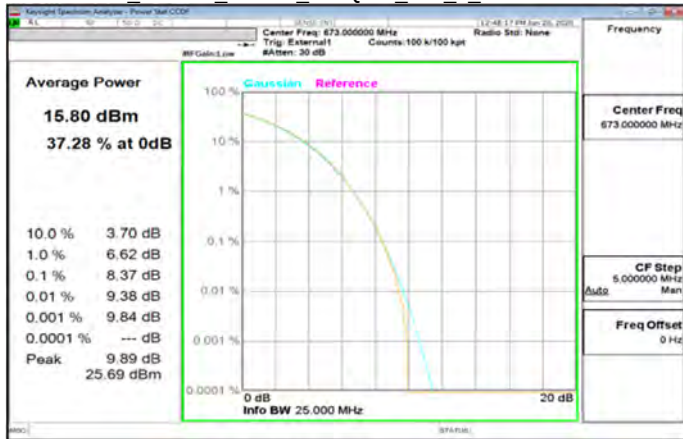
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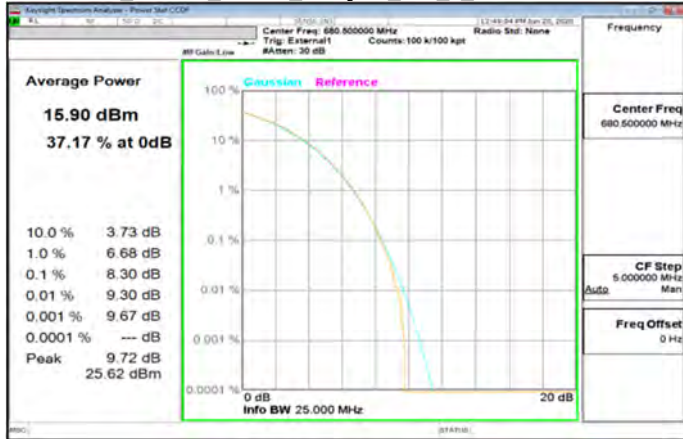
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CP-OFDM Band71 20MHz 256QAM 106 0 LowCH134600-673

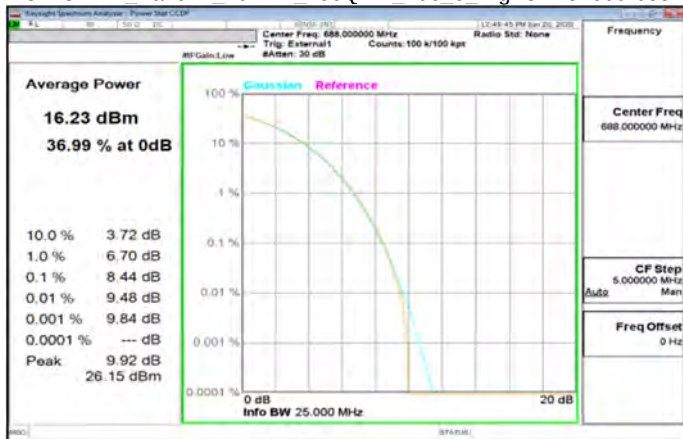
~ End of Report ~



CP-OFDM Band71 20MHz 256QAM 106 0 MidCH136100-680.5



CP-OFDM Band71 20MHz 256QAM 106 0 HighCH137600-688



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