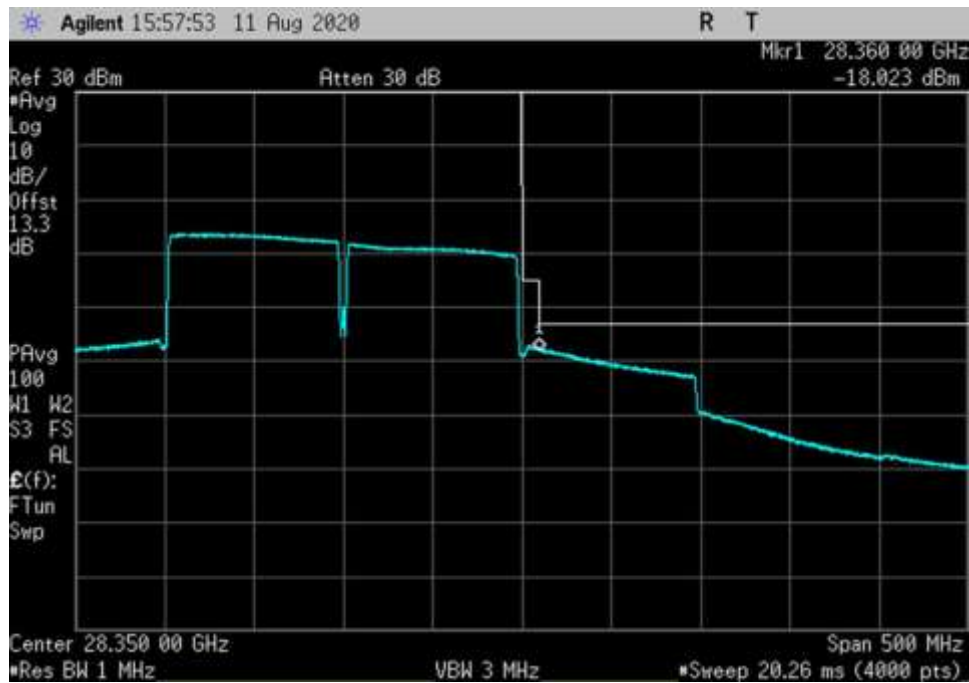
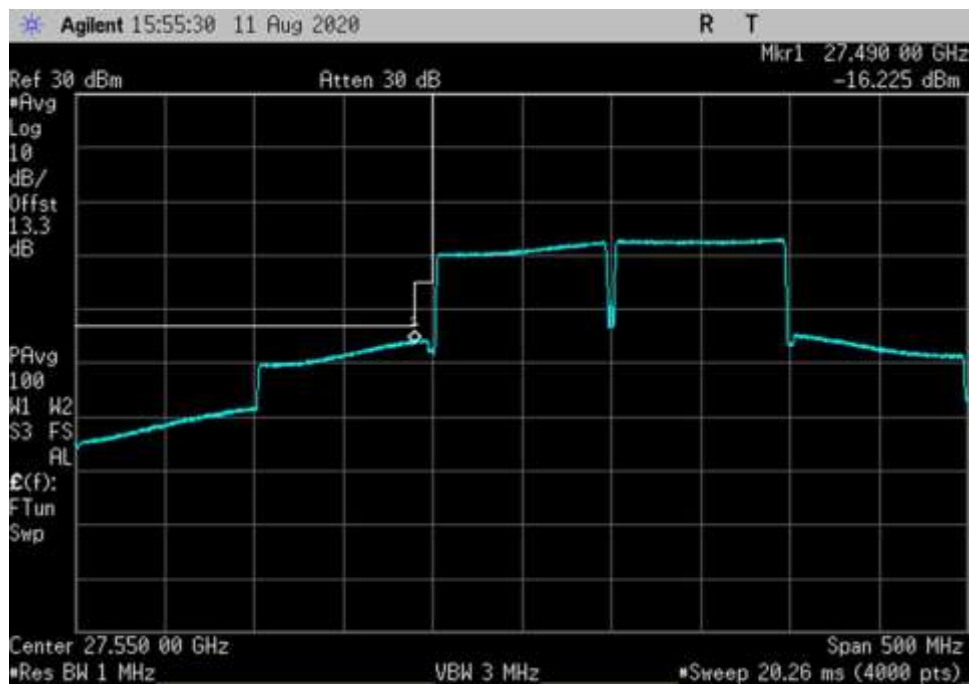


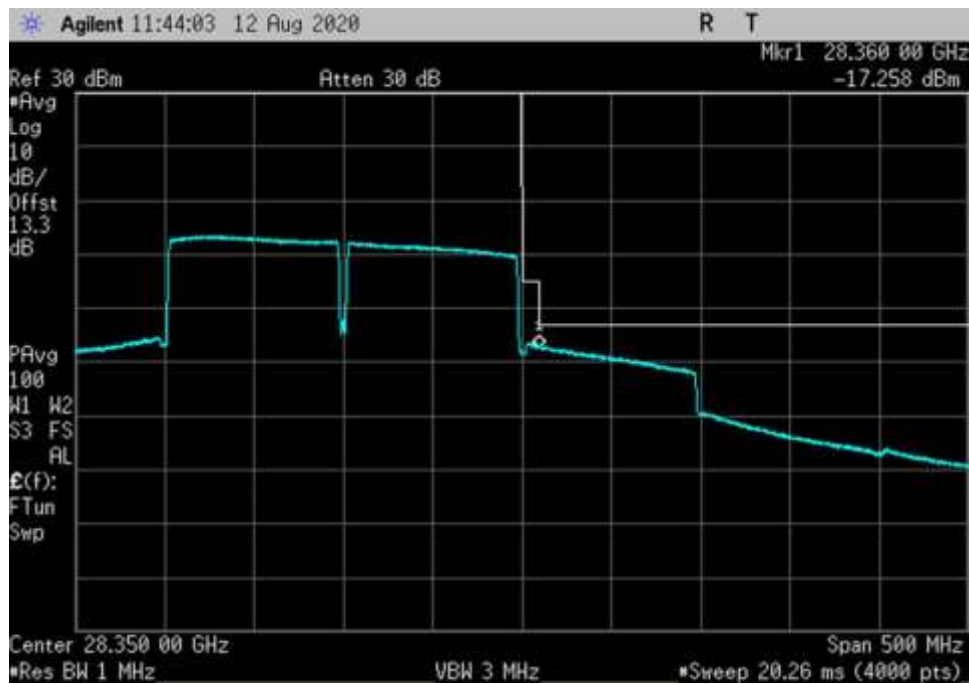


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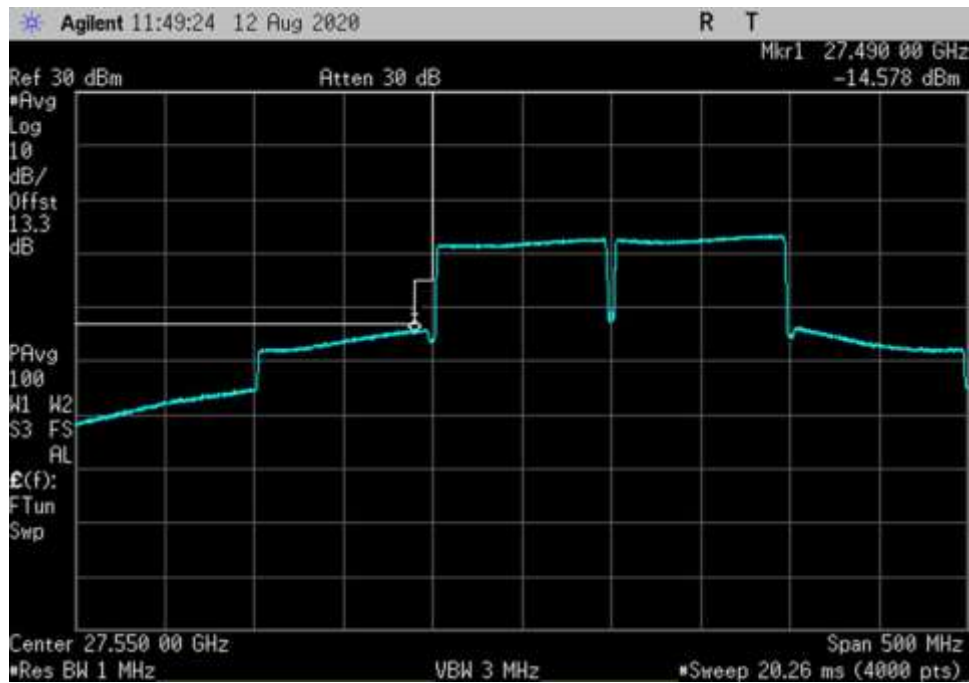


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CP – UL V



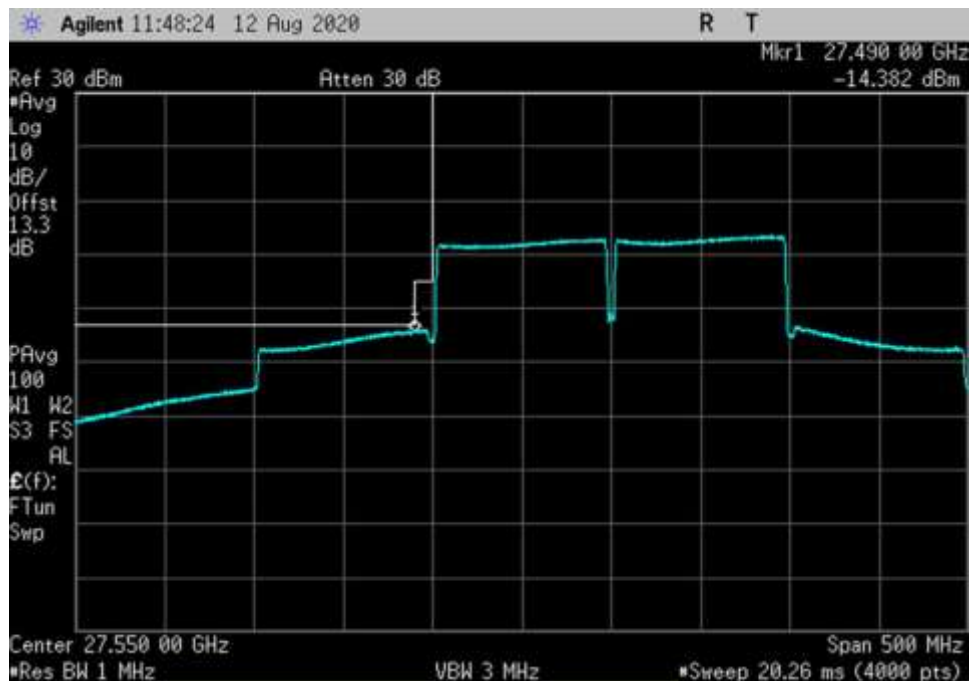
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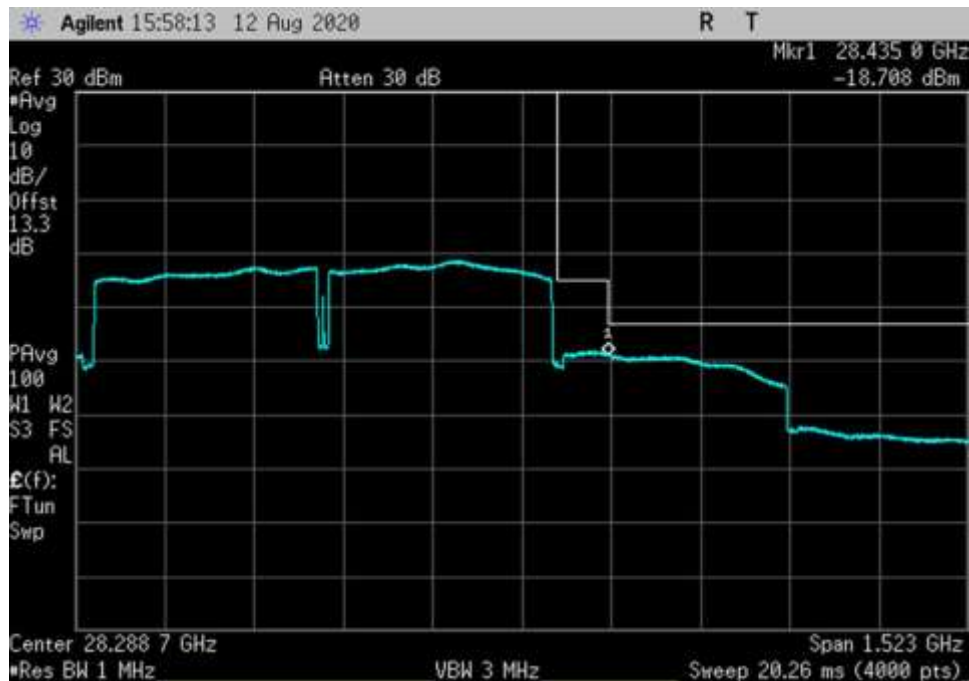
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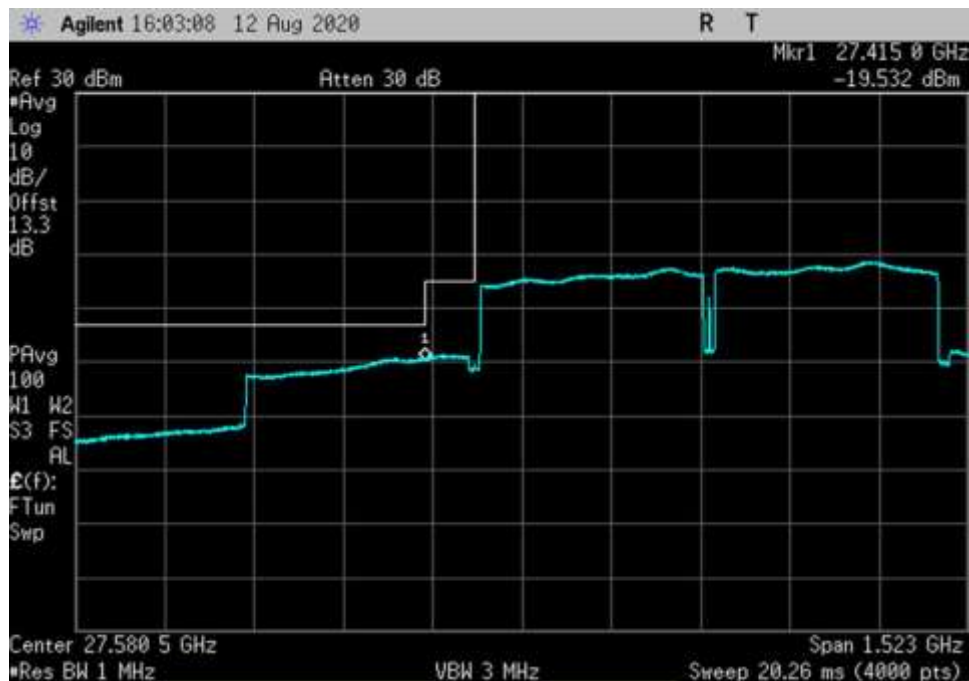
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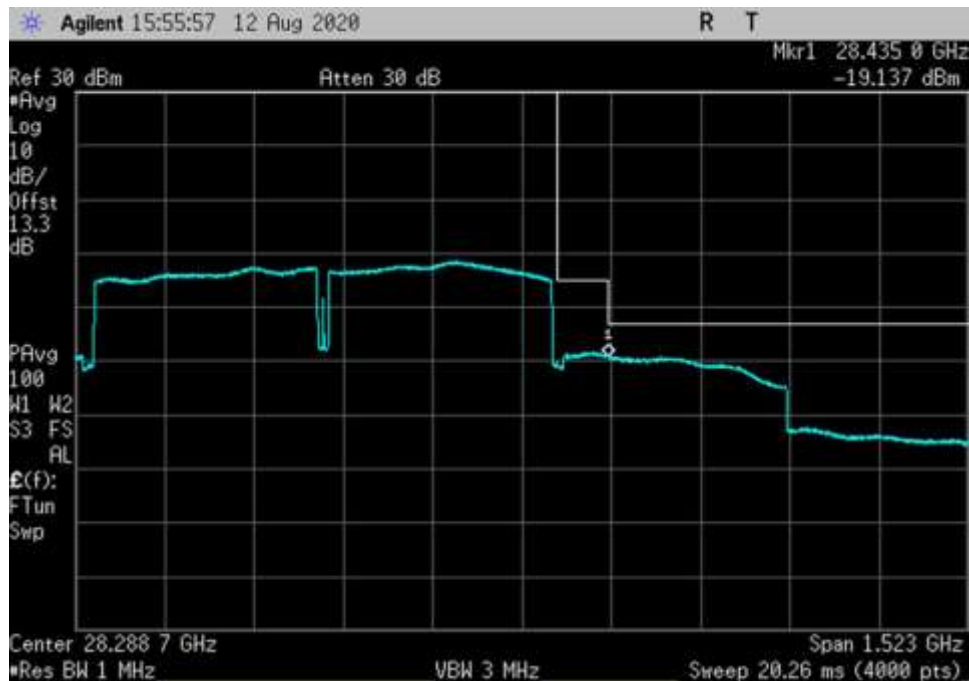
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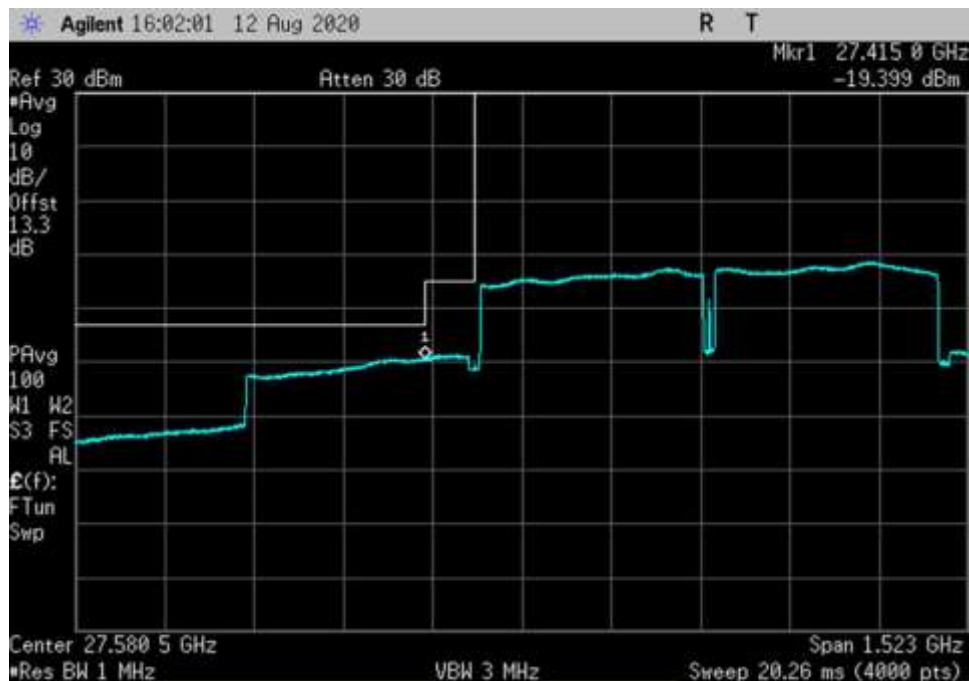
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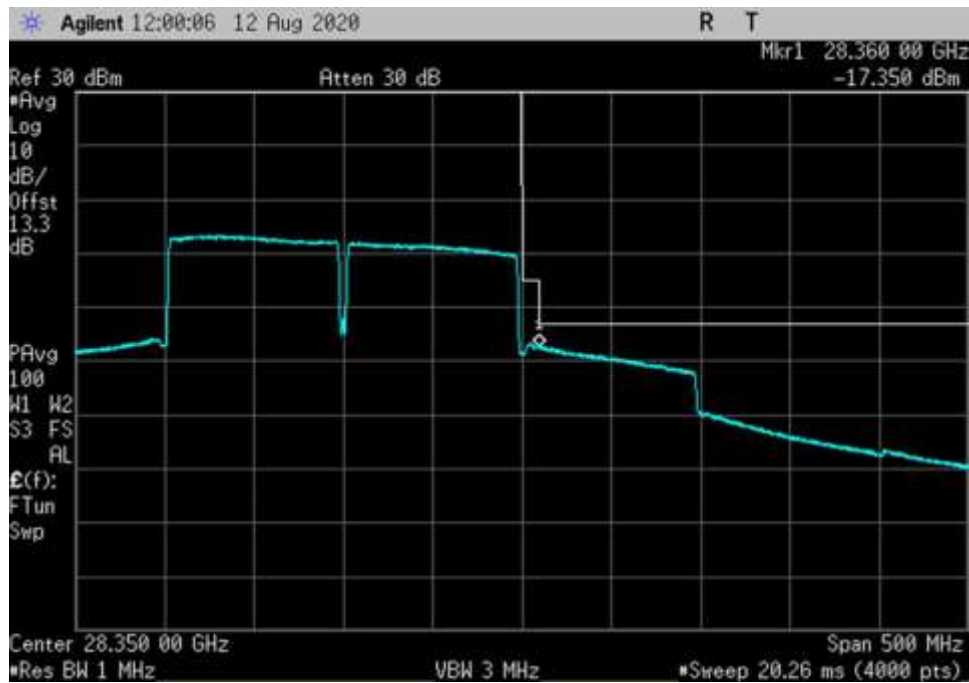
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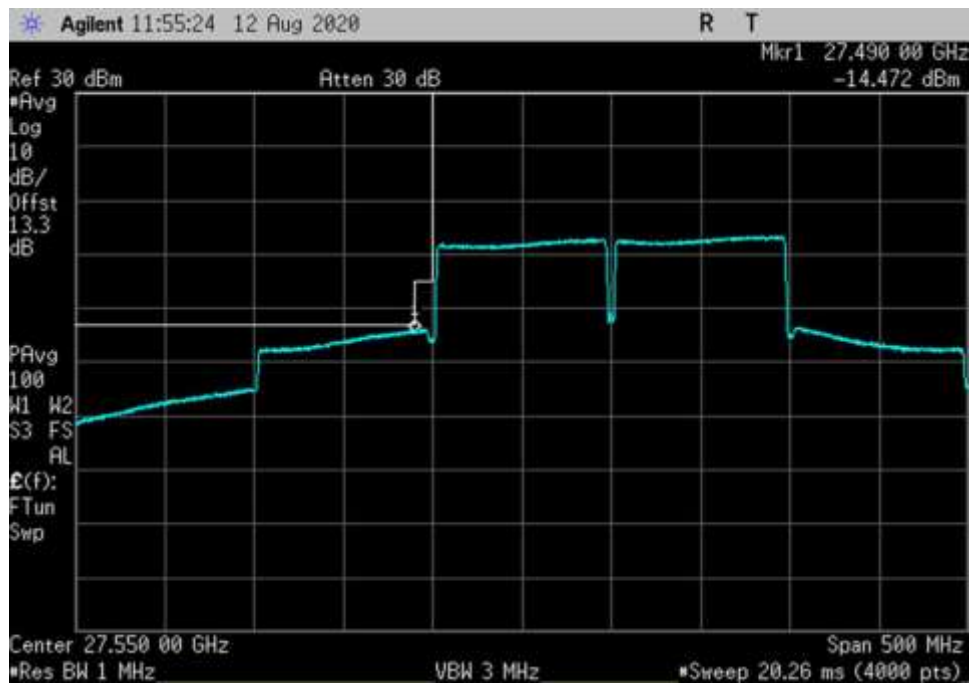
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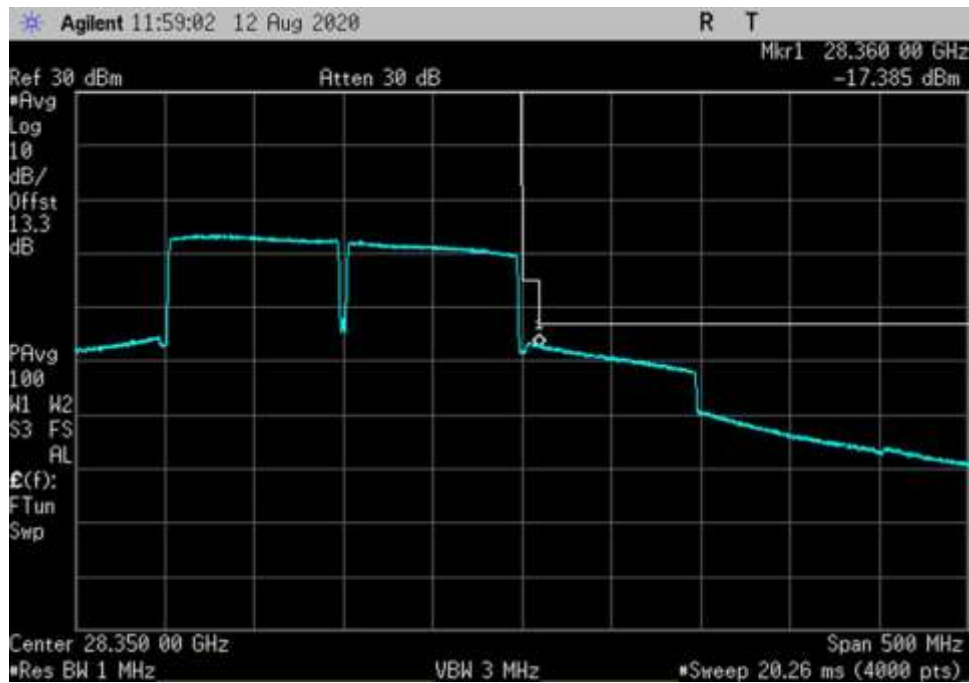
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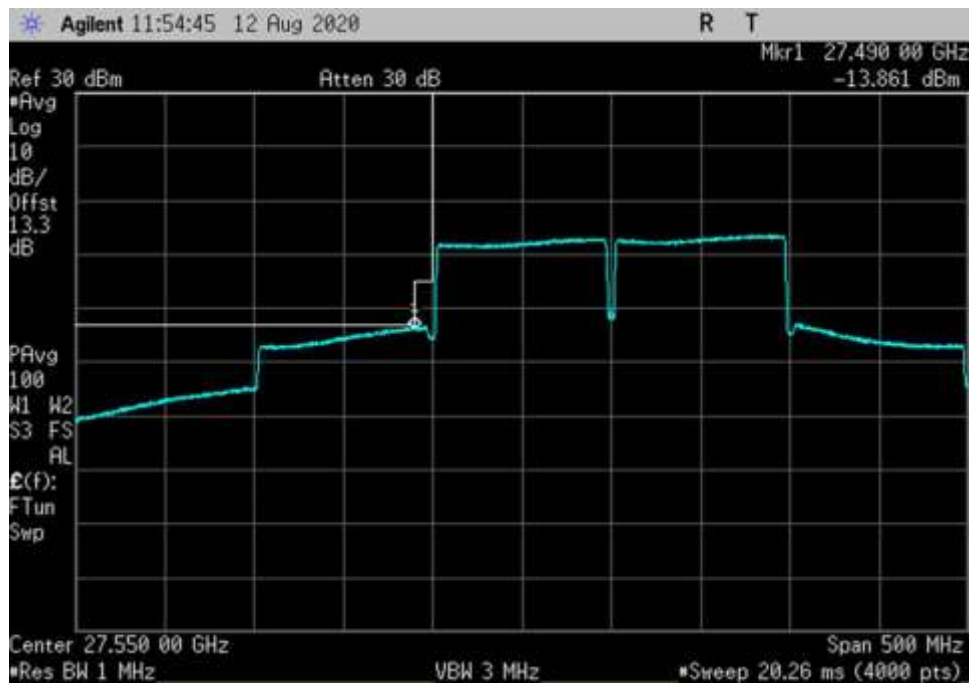
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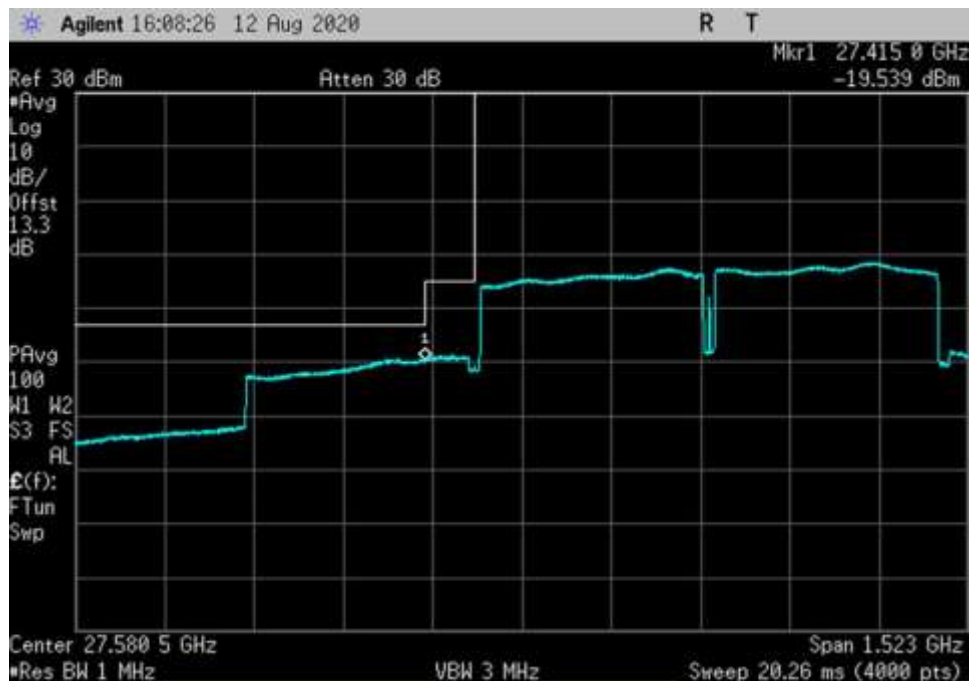
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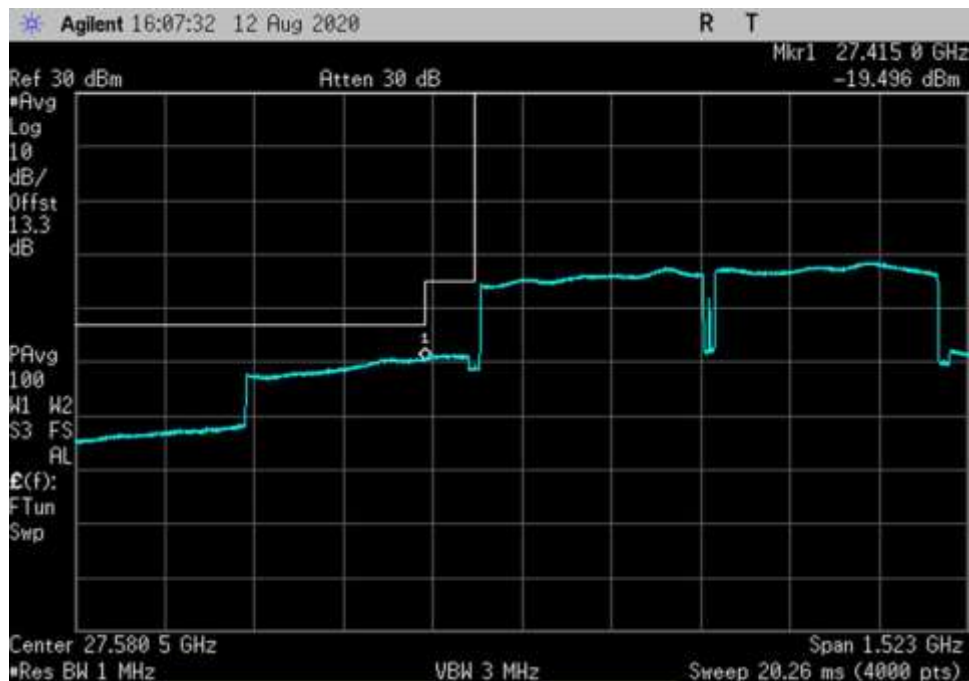
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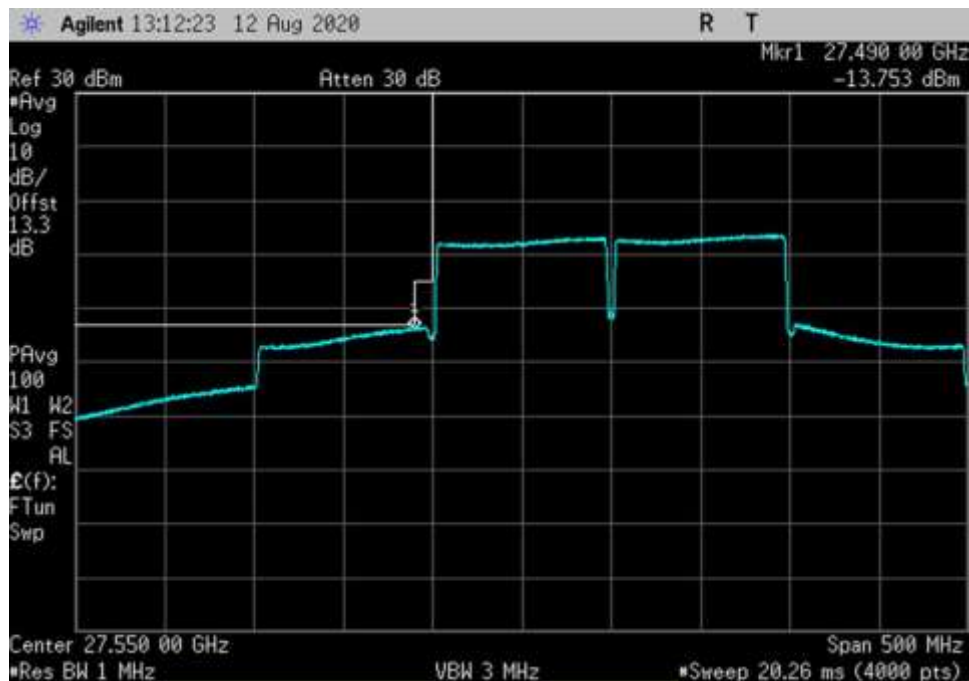
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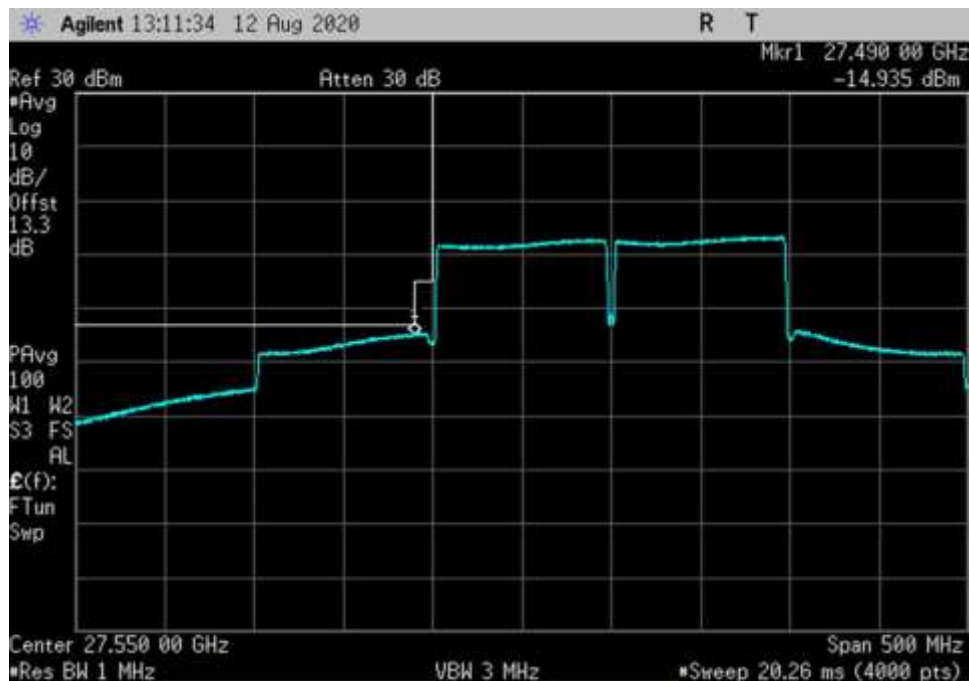
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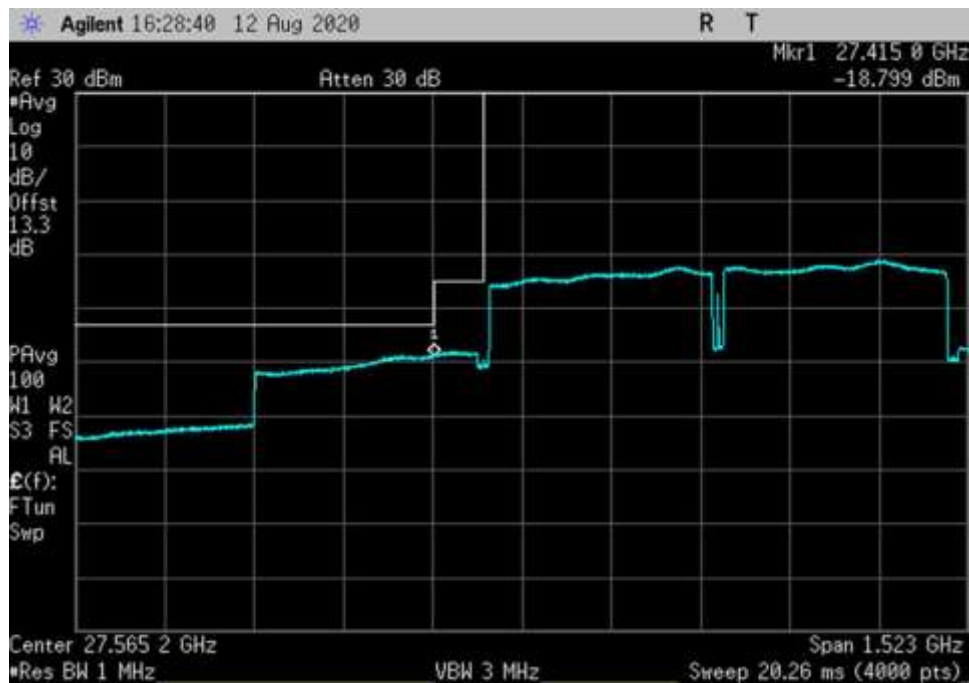
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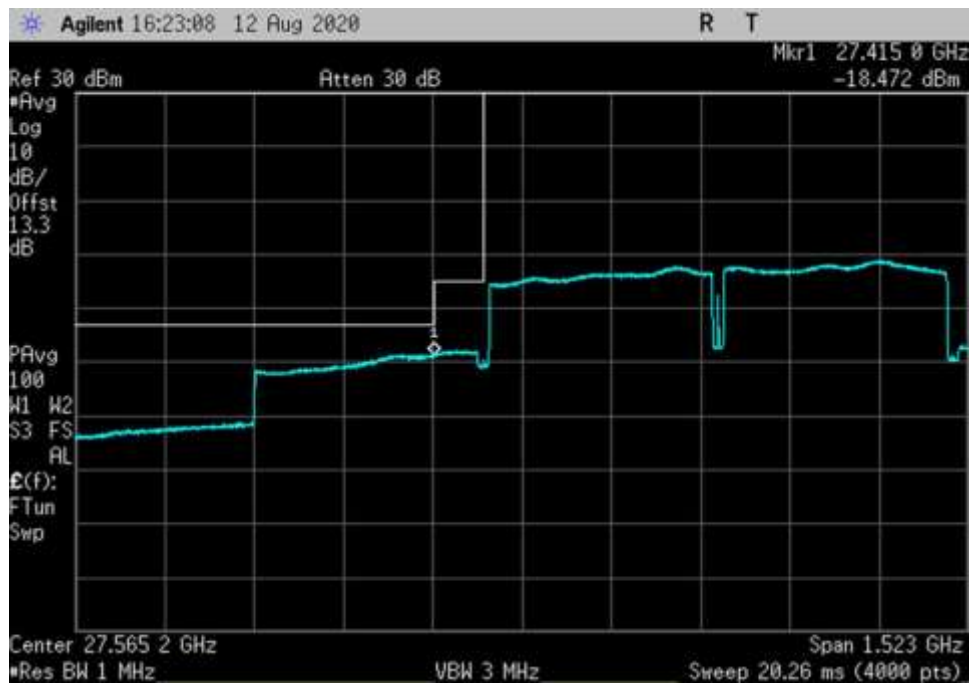
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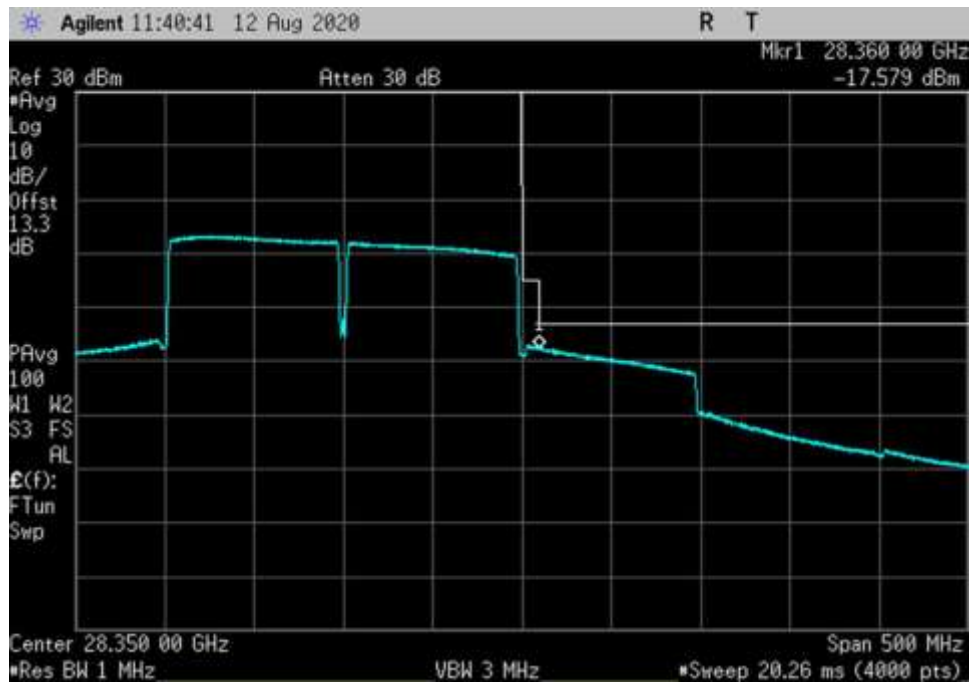
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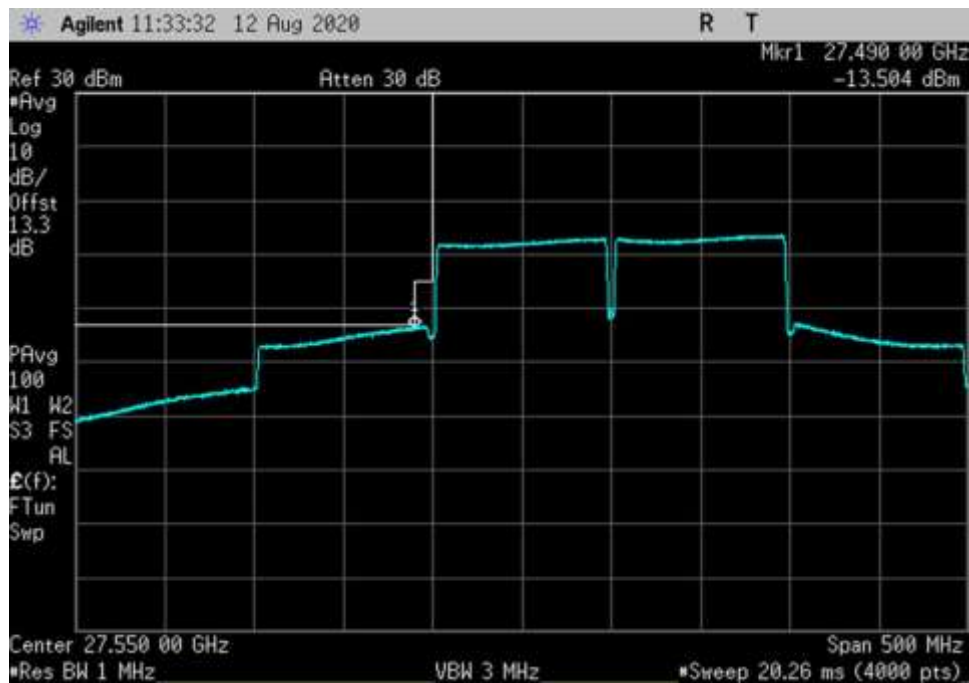
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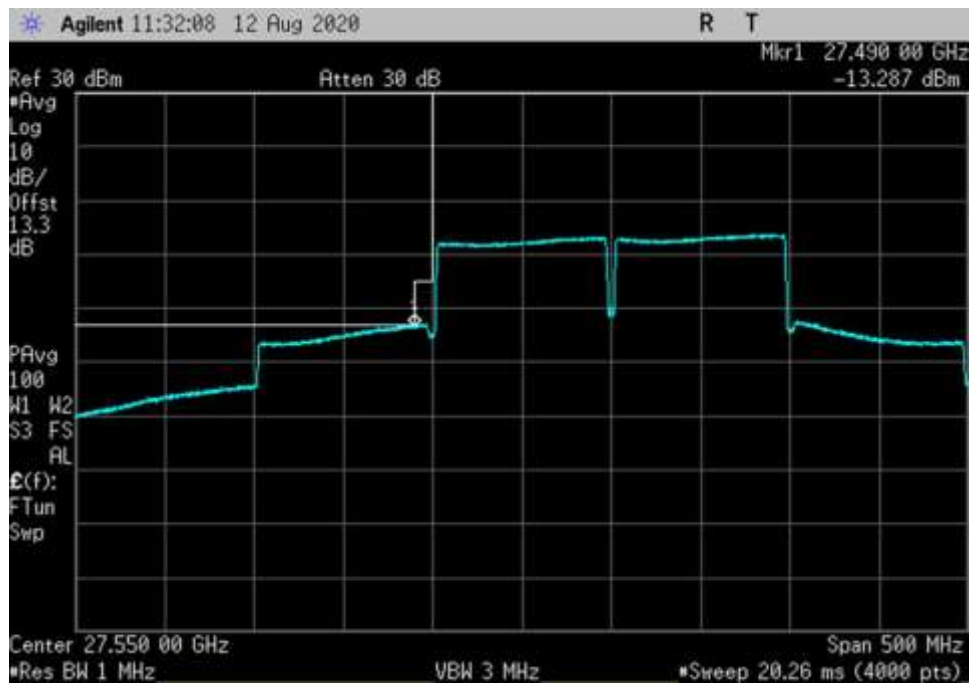
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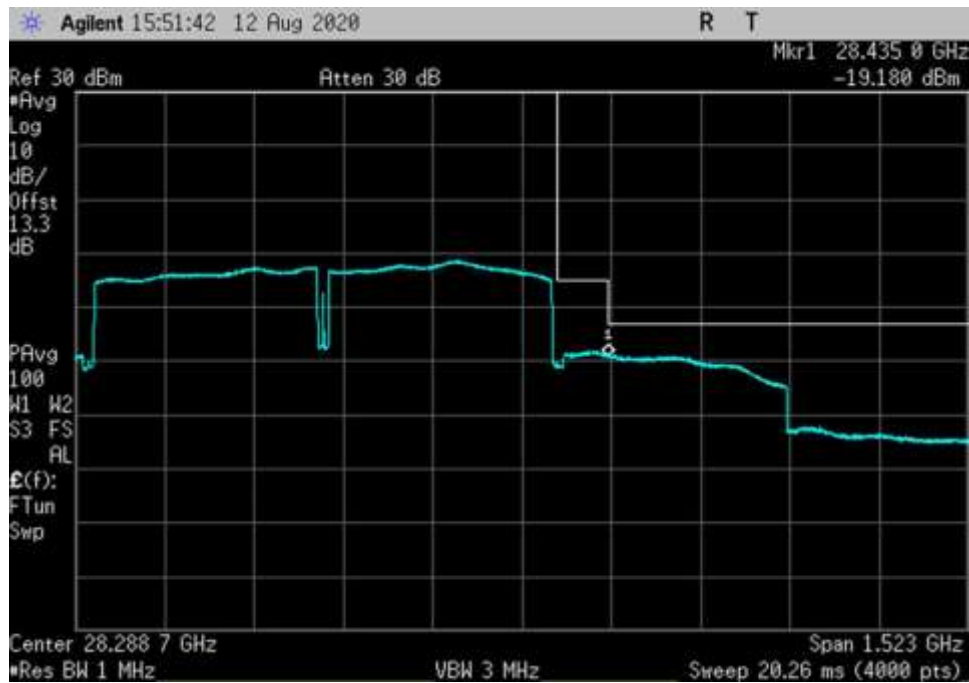
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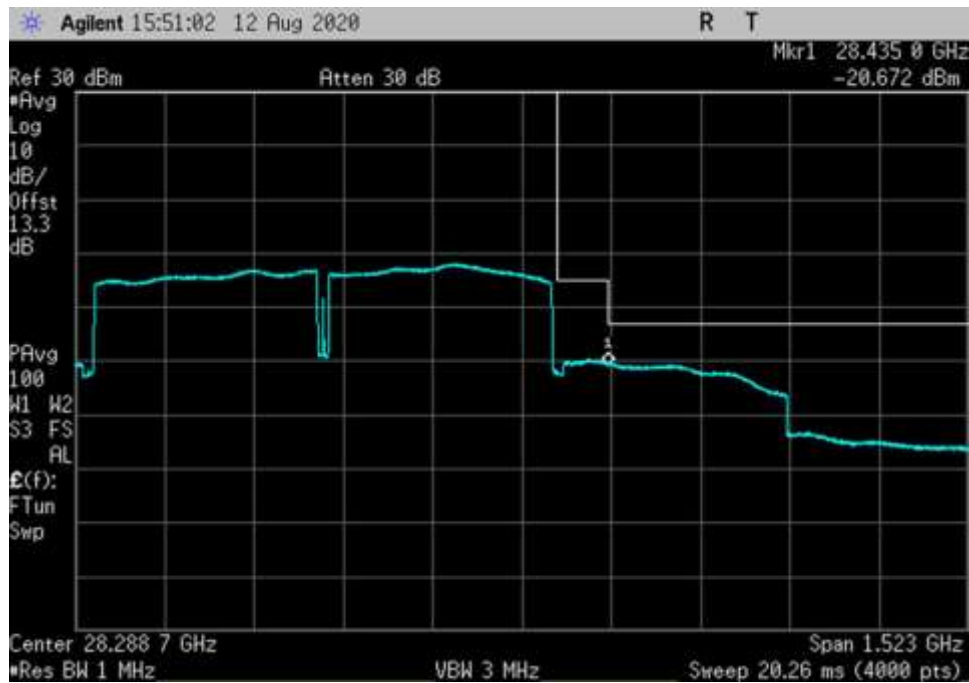
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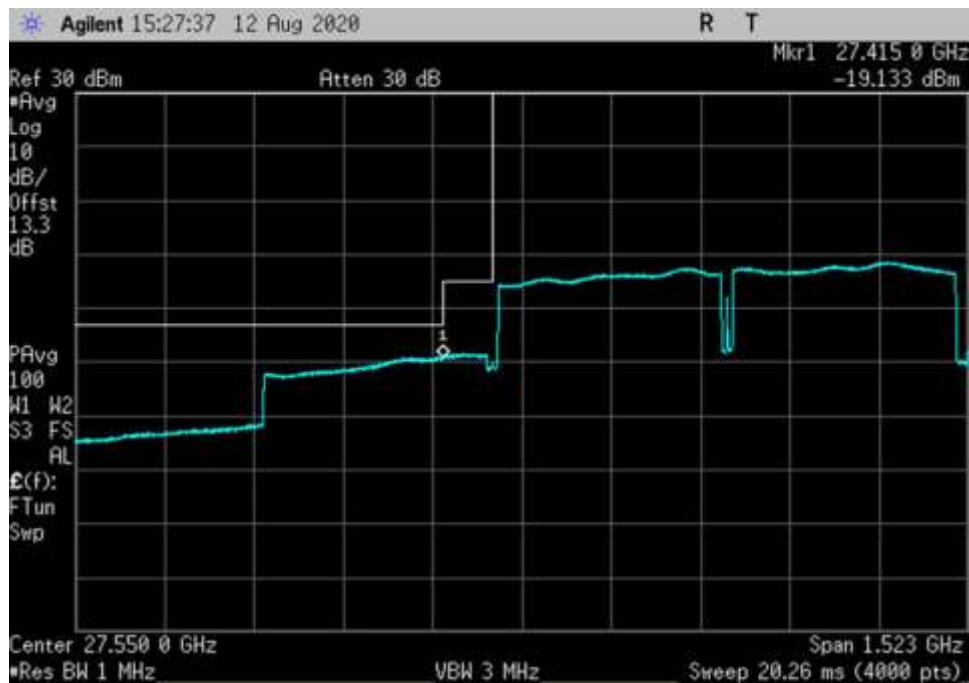
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UL_27500-28350-QPSK-400MHz-V-AGC+3-CP OFDM_LC



UL_27500-28350-QPSK-400MHz-V-CP OFDM_HC



UL_27500-28350-QPSK-400MHz-V-CP OFDM_LC

CP – DL V



DL_27500-28350- 16QAM-400MHz-V-AGC+3-CP OFDM_HC



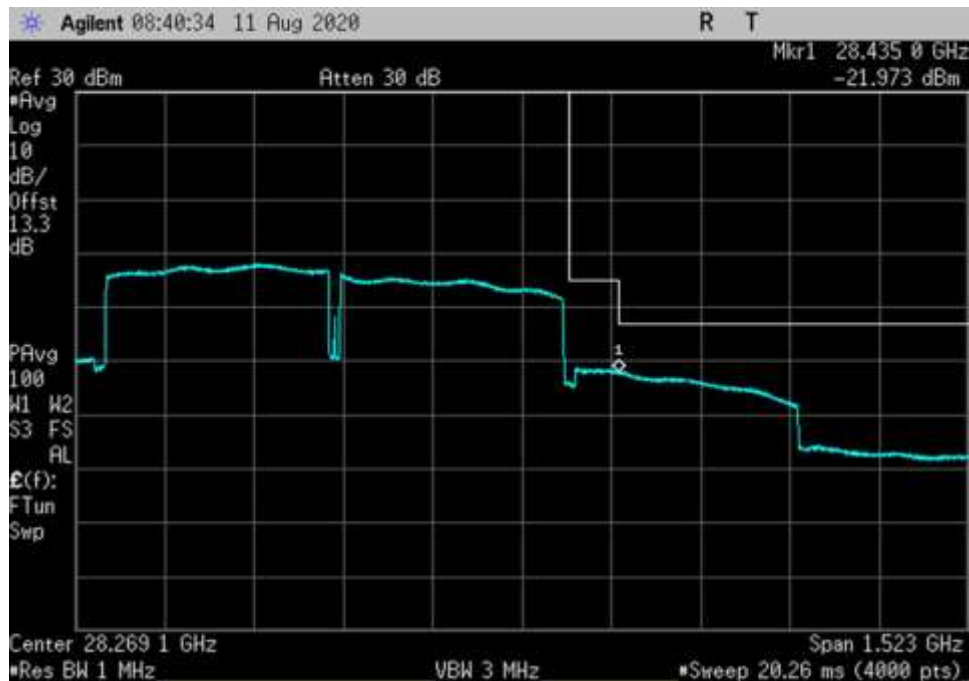
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DL_27500-28350- 16QAM-400MHz-V-CP OFDM_LC



DL_27500-28350- 64QAM-400MHz-V-AGC+3-CP OFDM_HC



DL_27500-28350- 64QAM-400MHz-V-AGC+3-CP OFDM_LC



DL_27500-28350- 64QAM-400MHz-V-CP OFDM_HC



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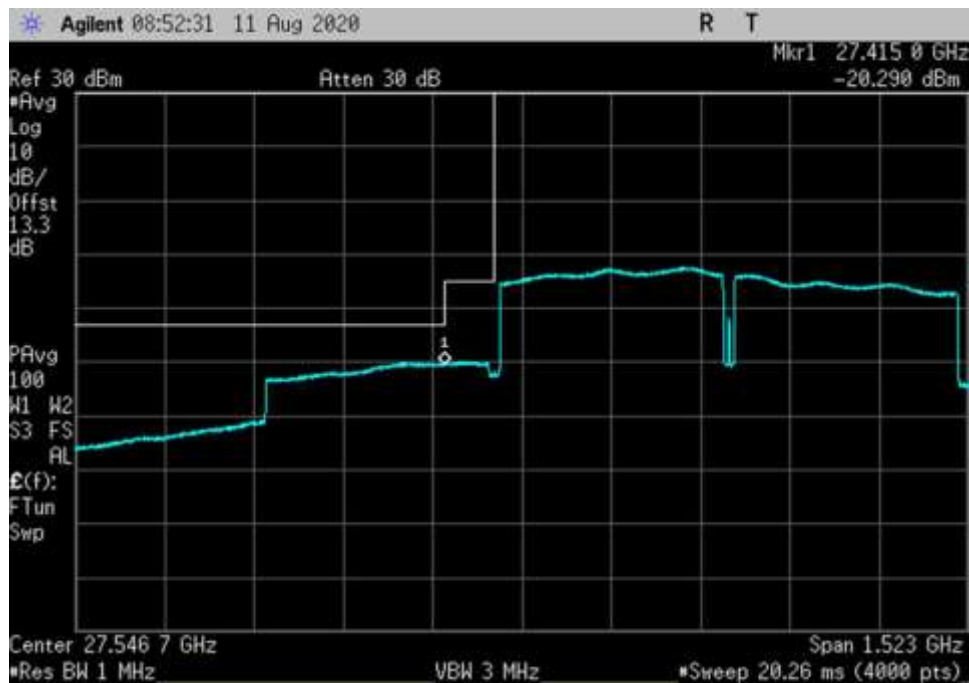
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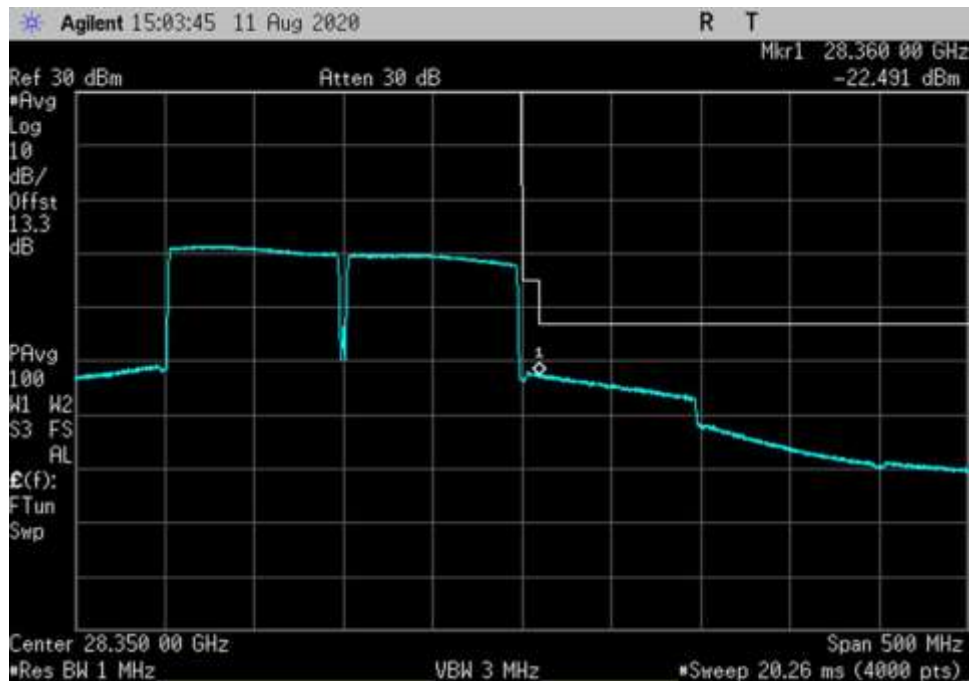
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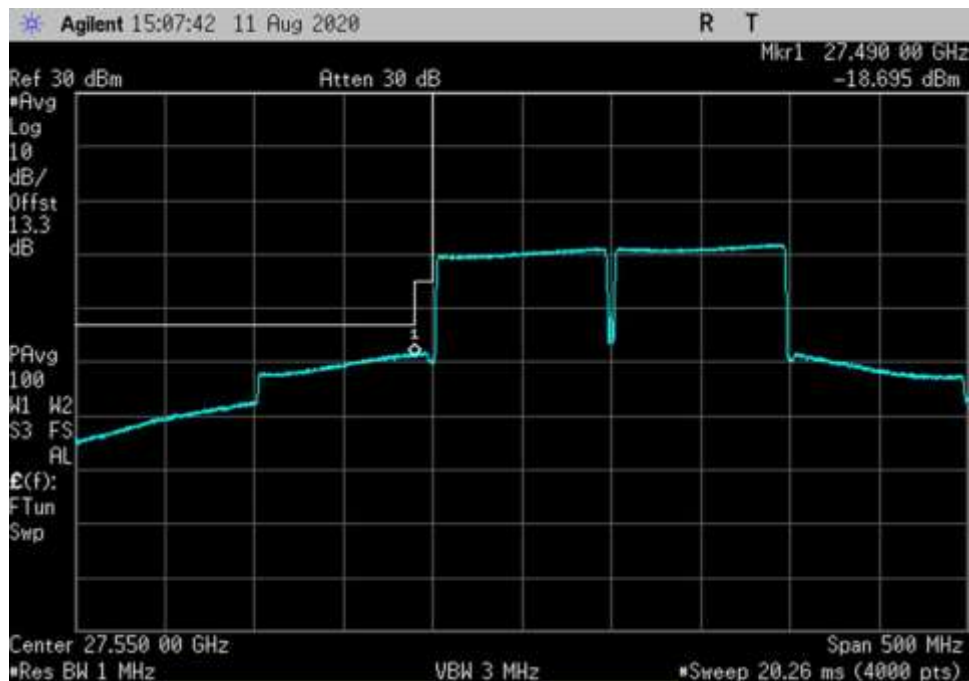
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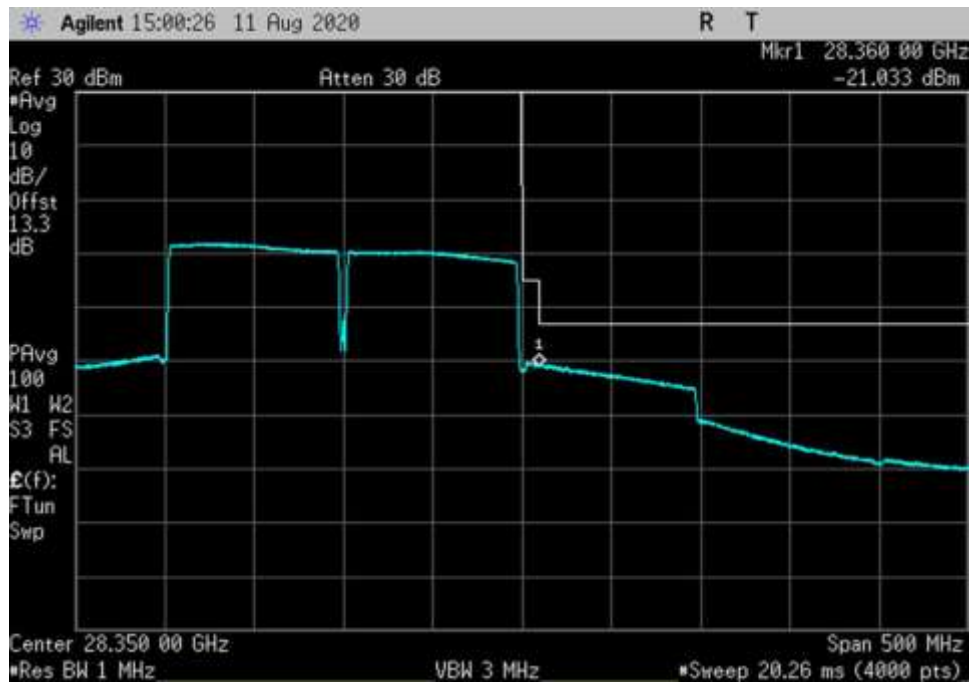
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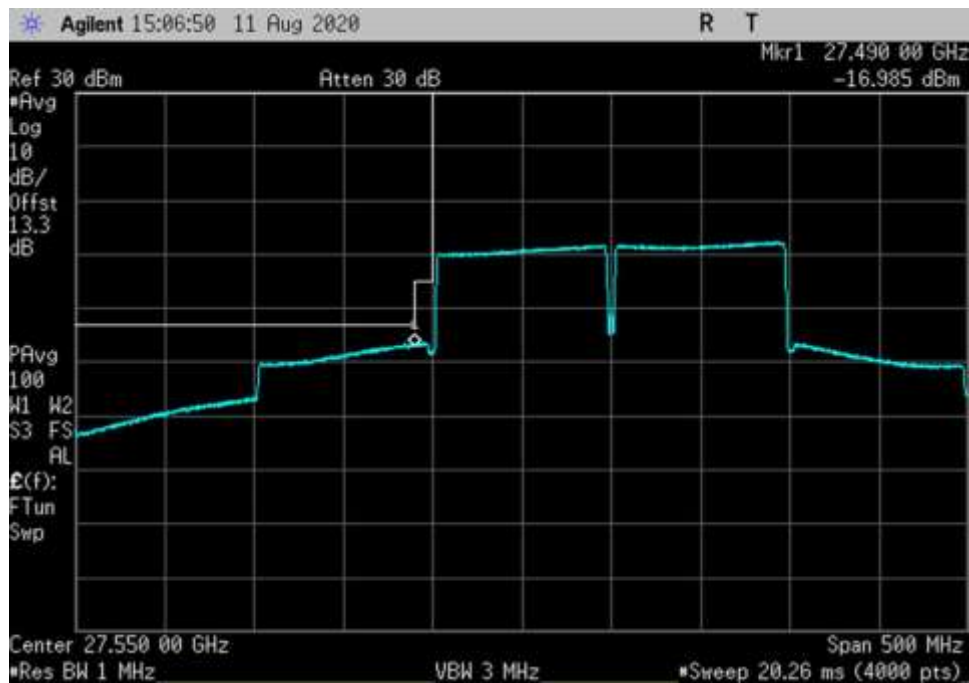
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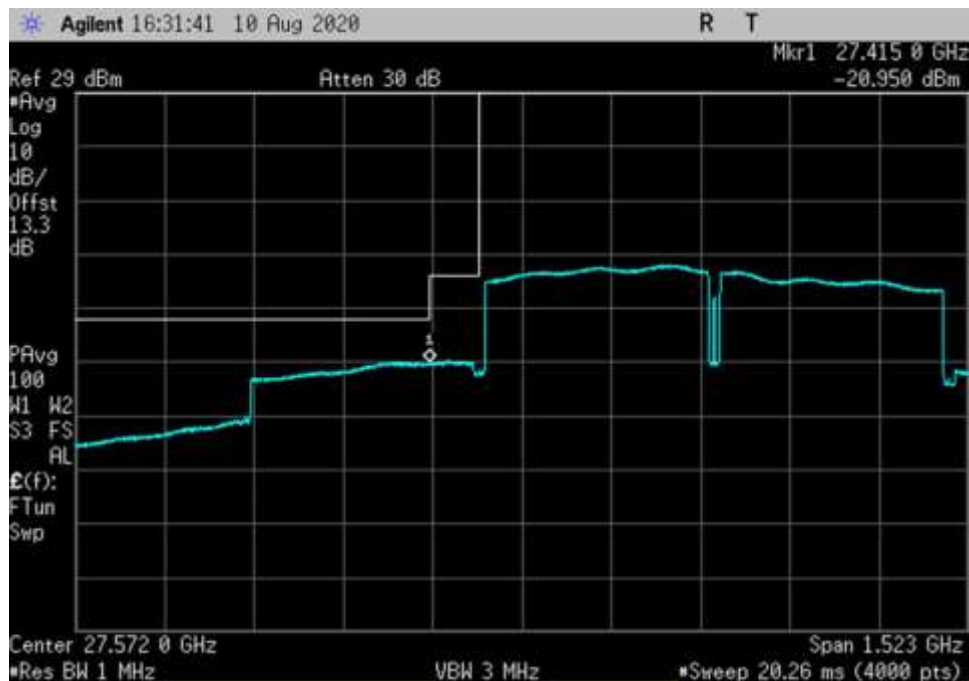
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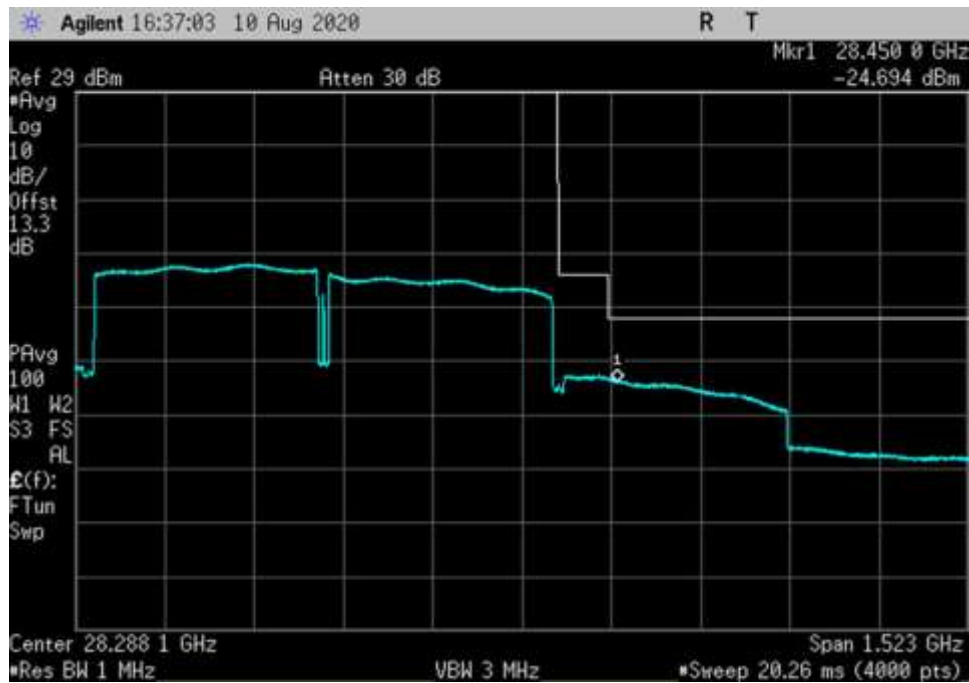
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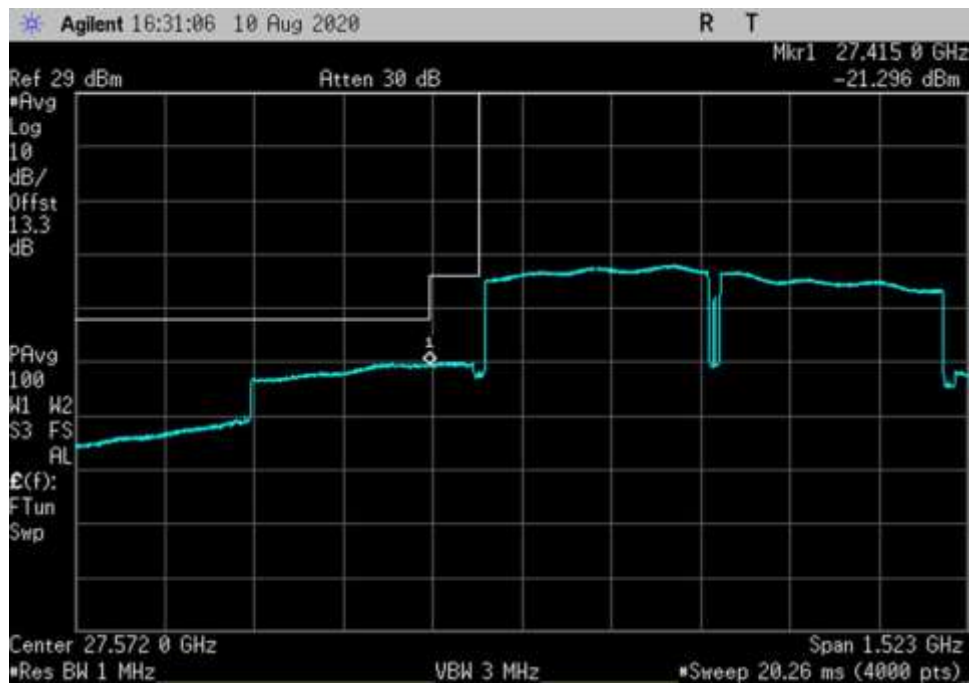
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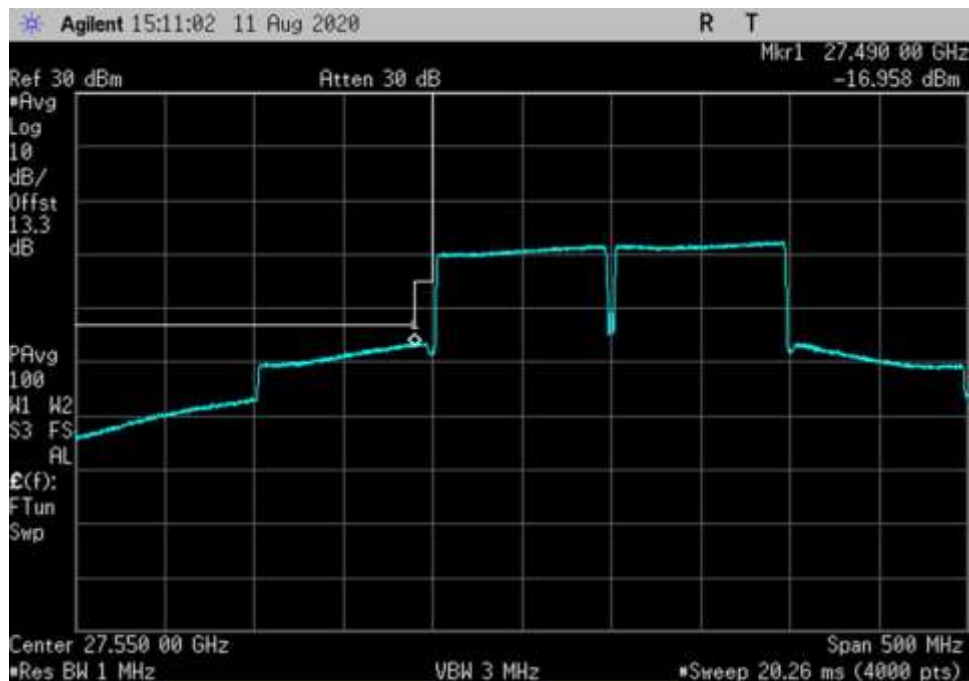
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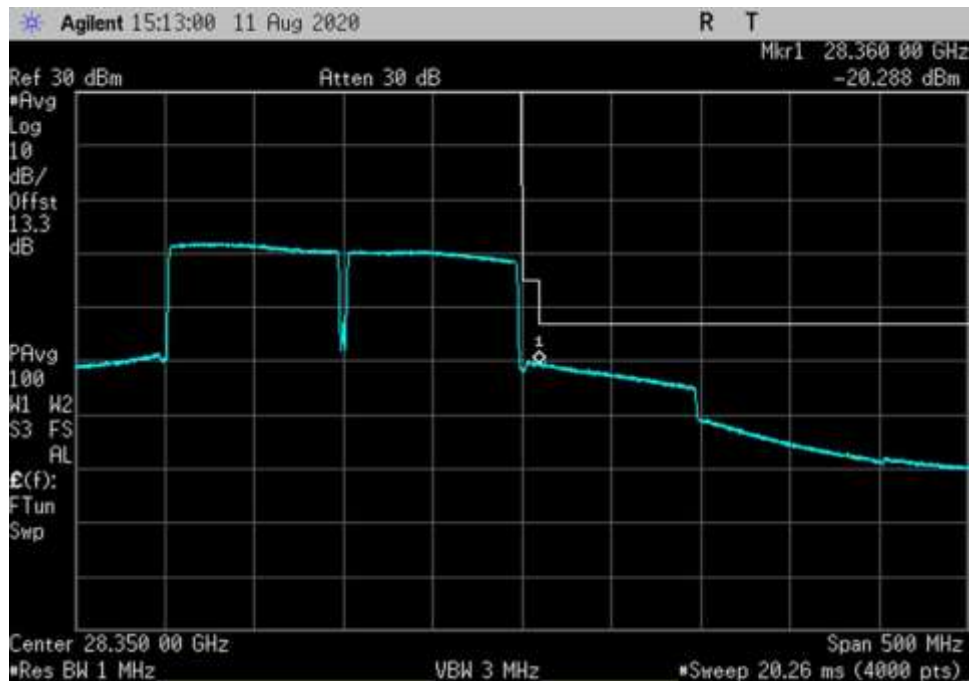
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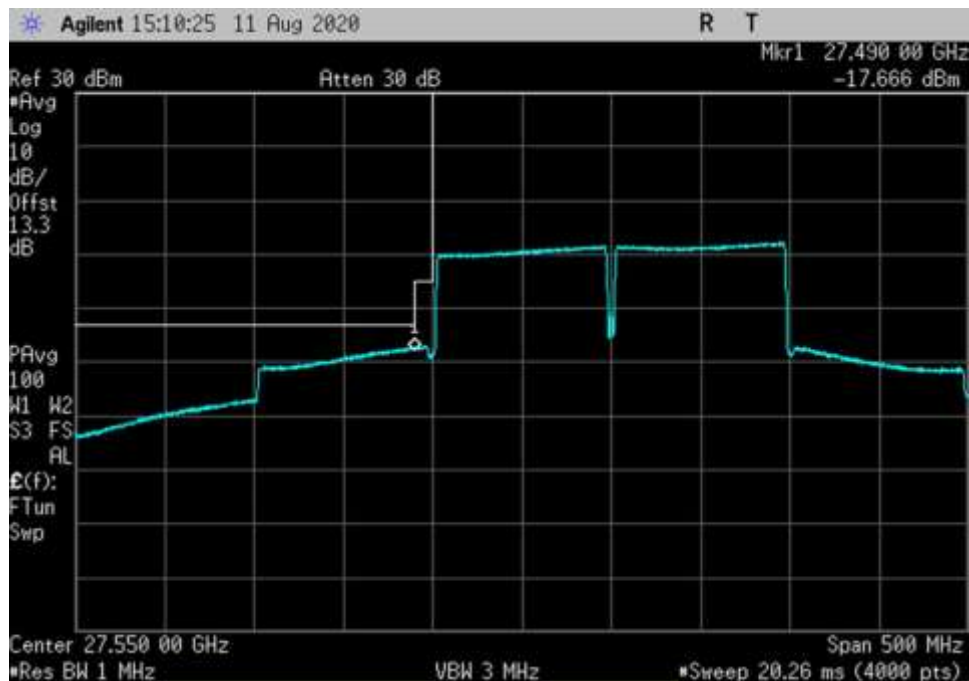
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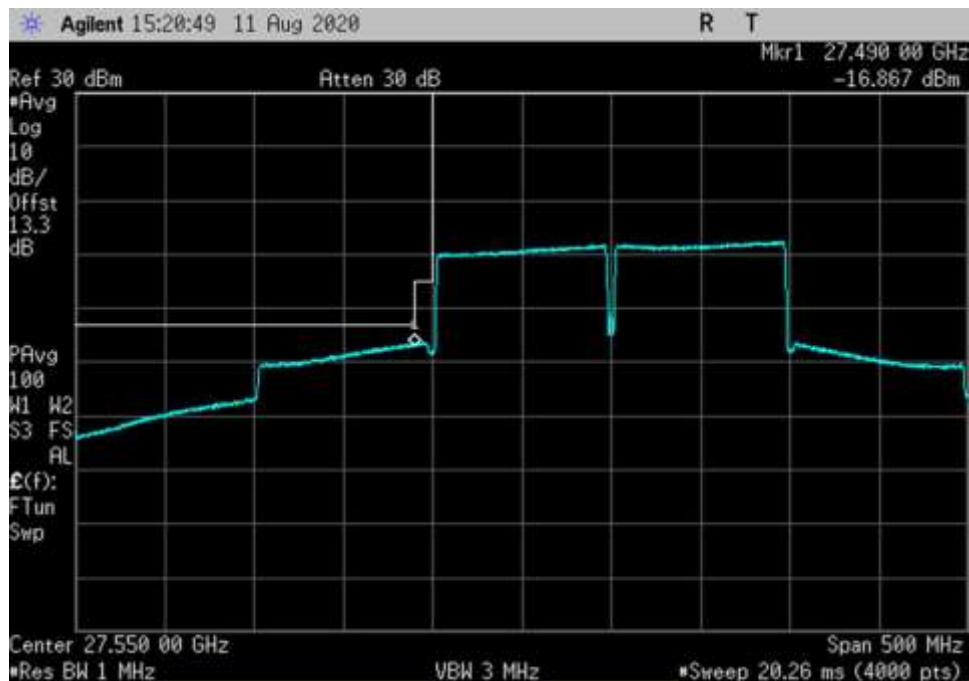
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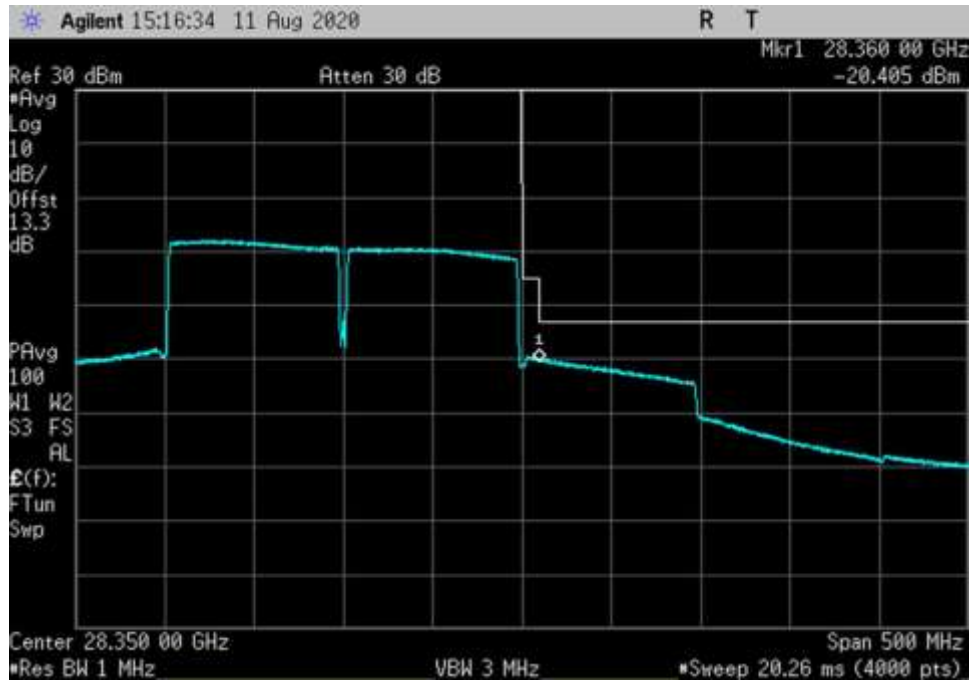
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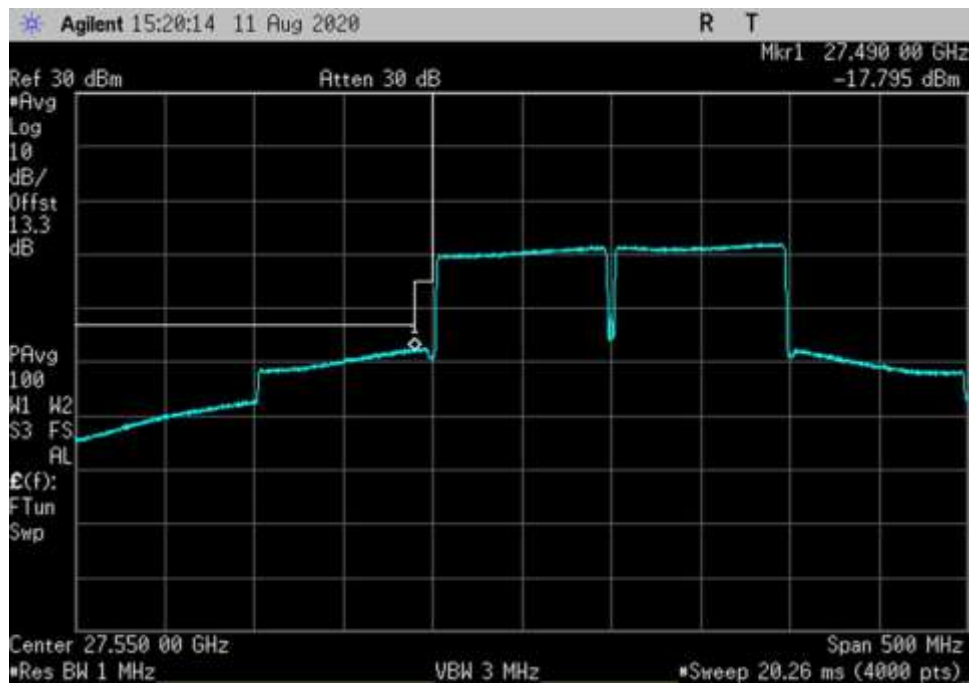
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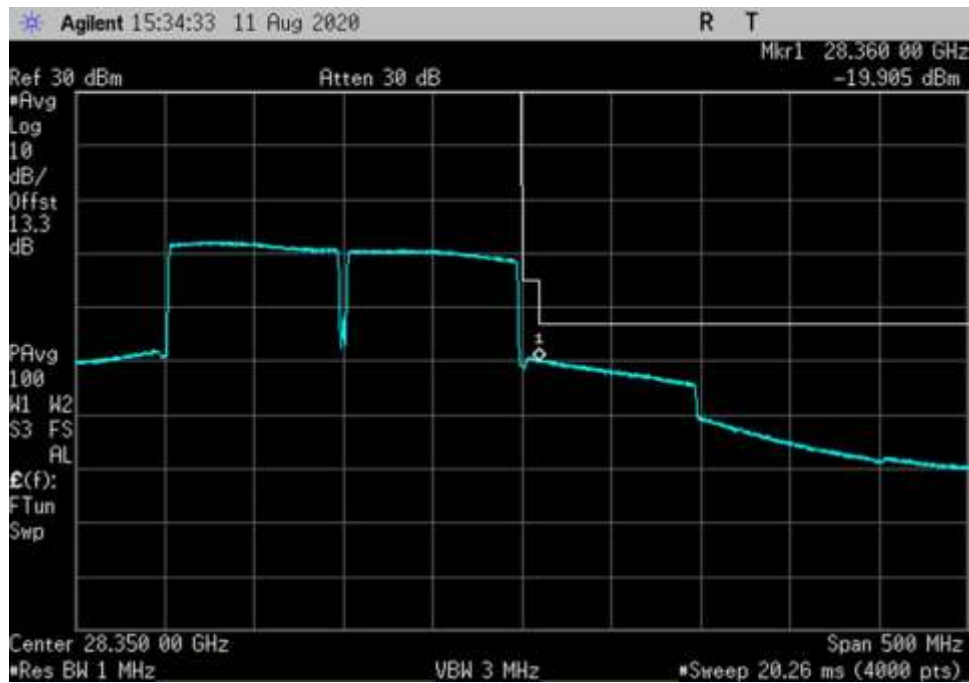
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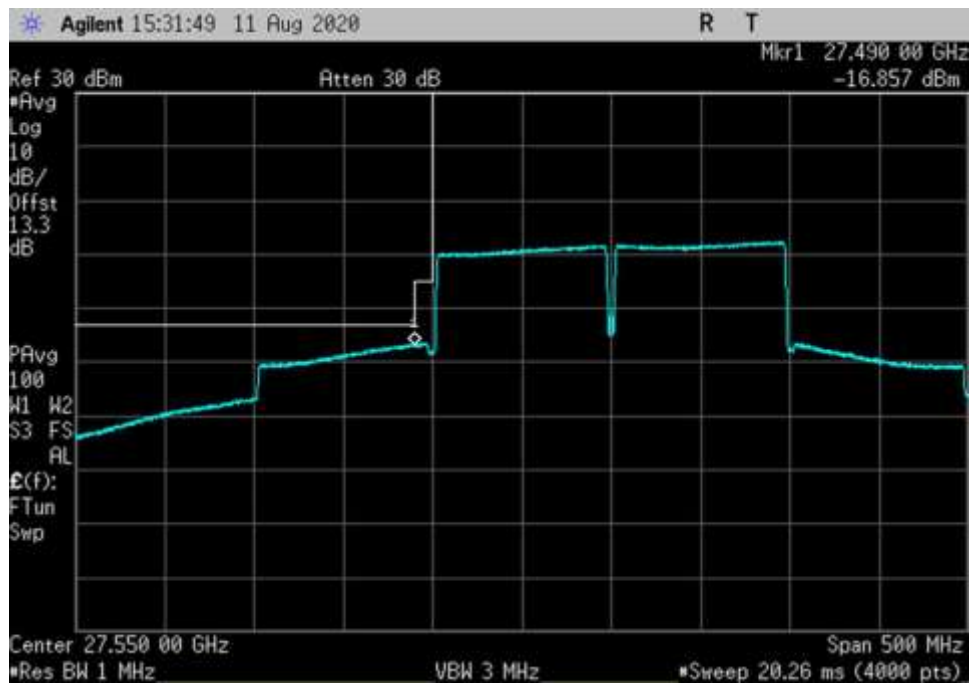
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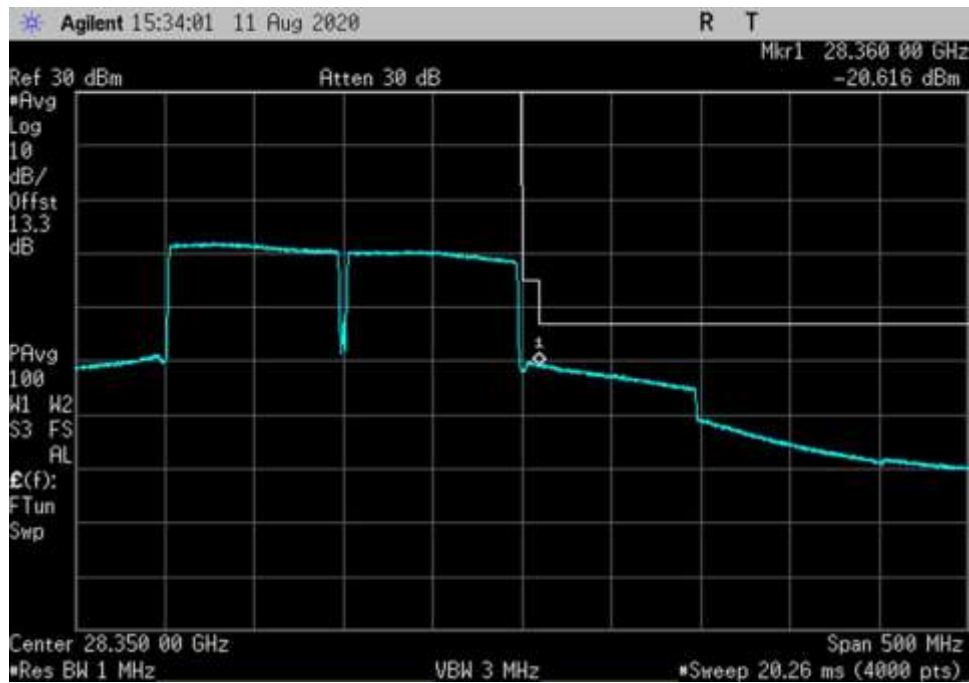
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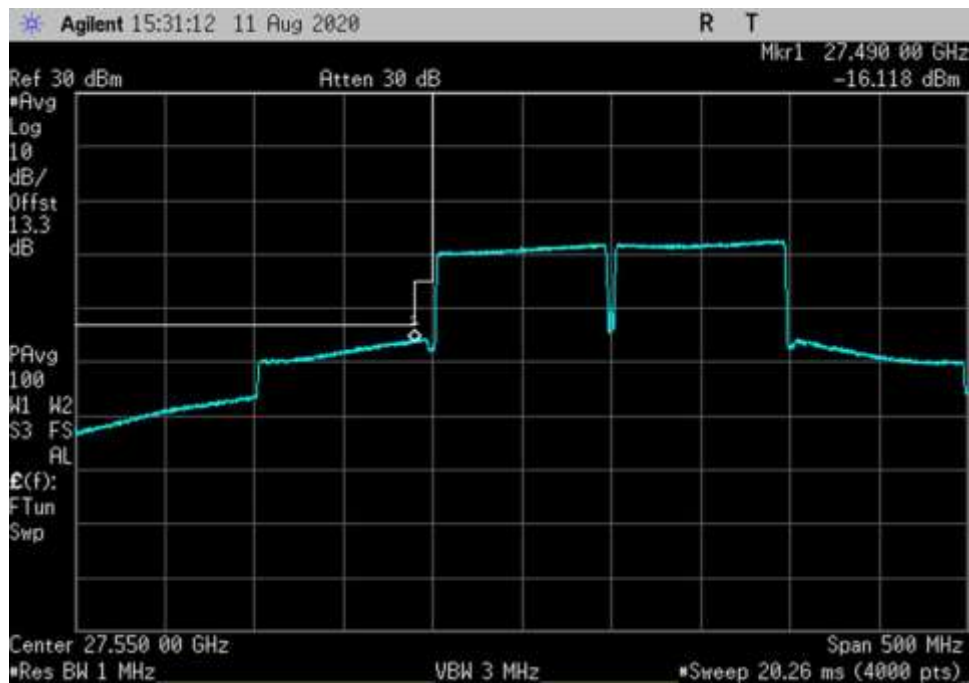
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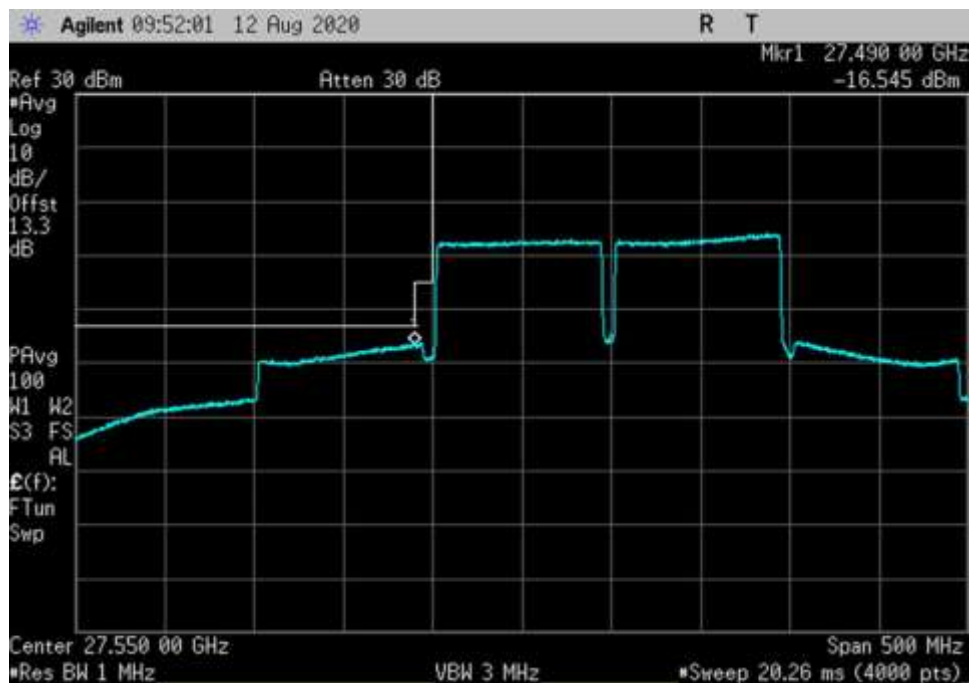


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DFT – UL H



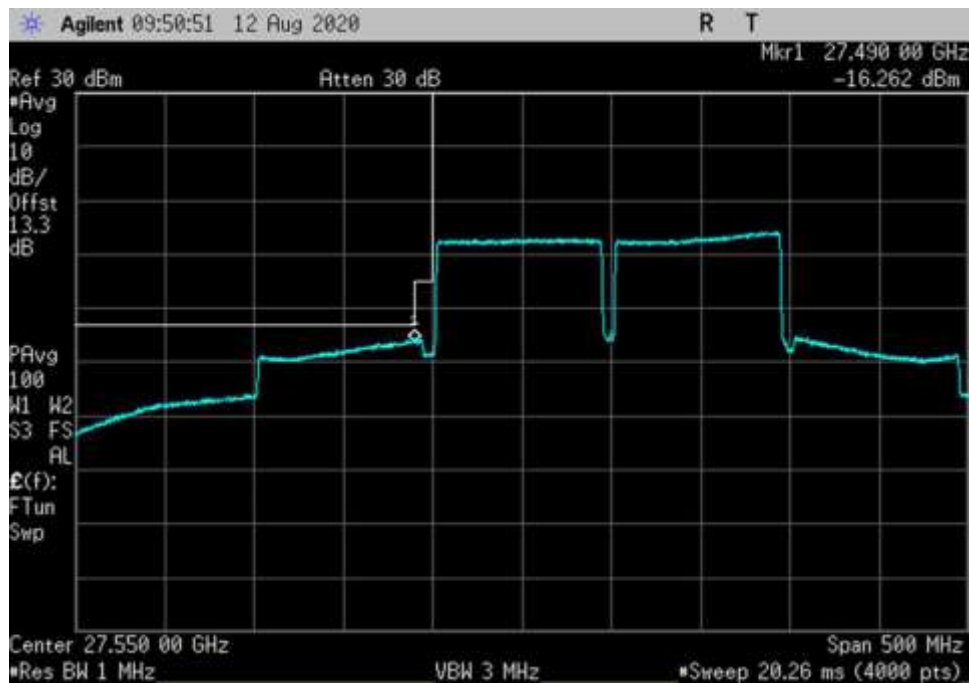
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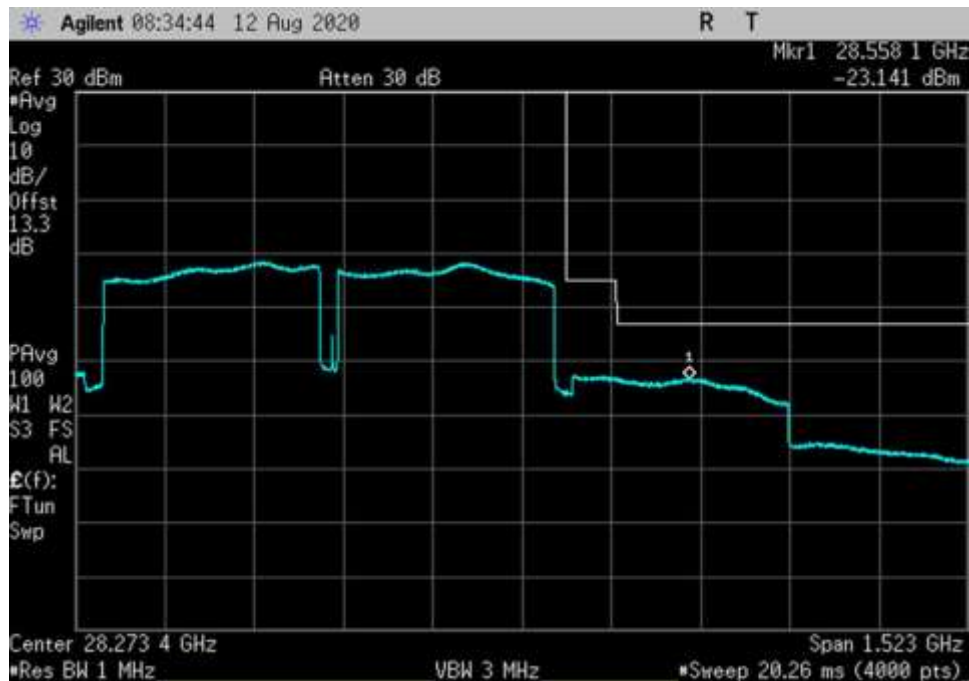
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UL_27500-28350-16QAM-100MHz-H-DFT OFDM_HC



UL_27500-28350-16QAM-100MHz-H-DFT OFDM_LC



UL_27500-28350-16QAM-400MHz-H-AGC+3-DFT OFDM_HC



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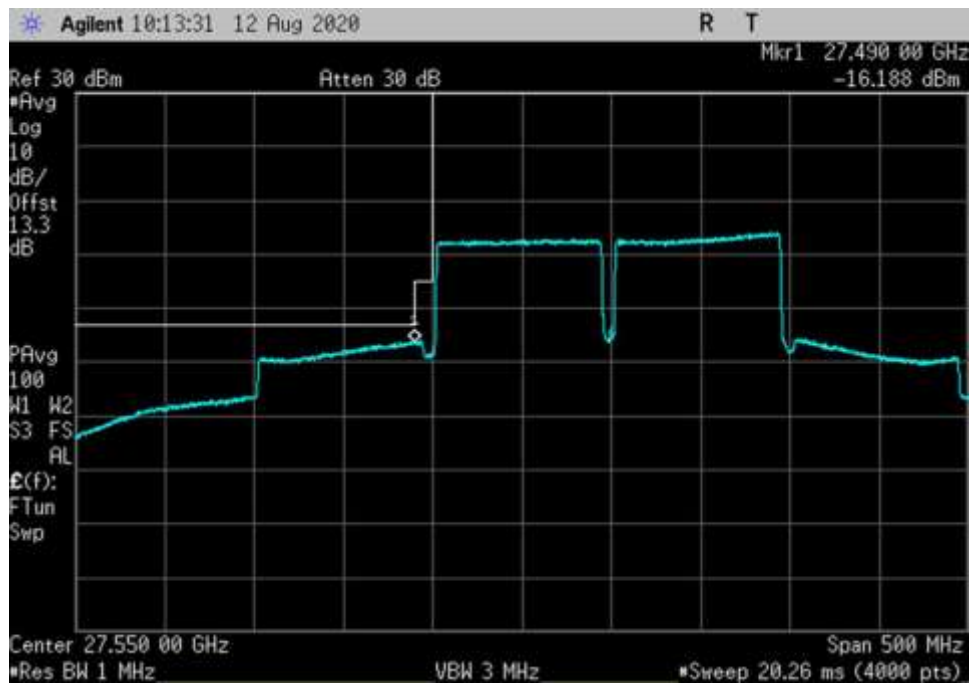
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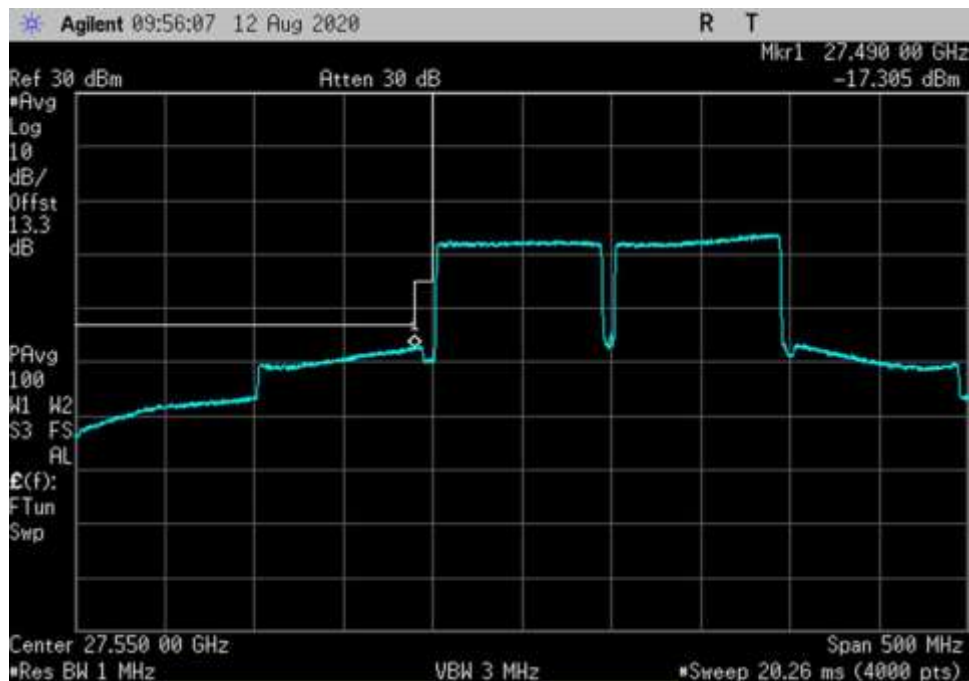
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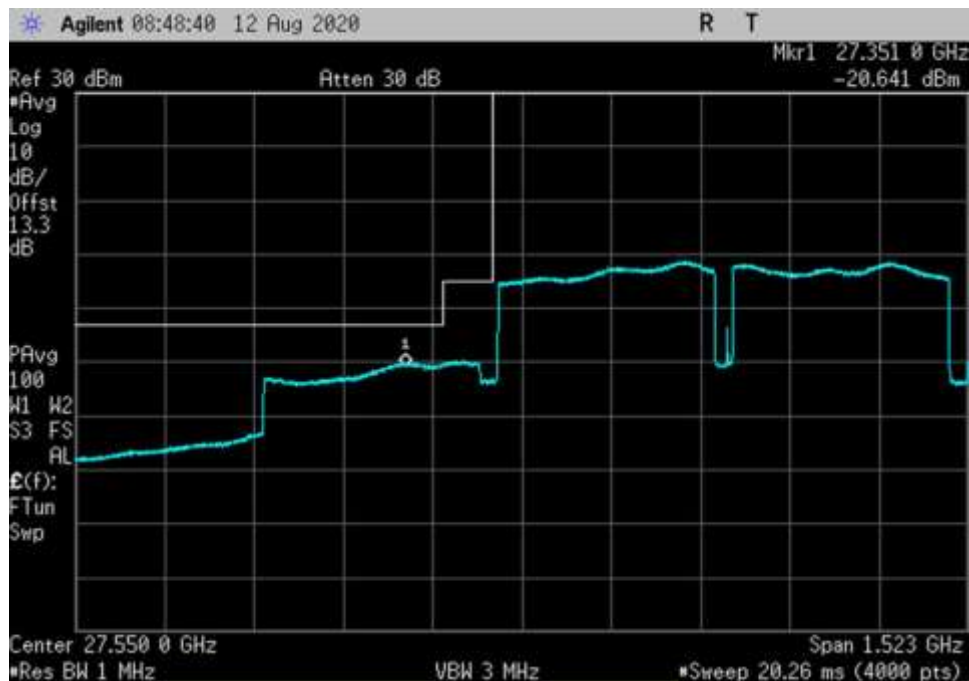
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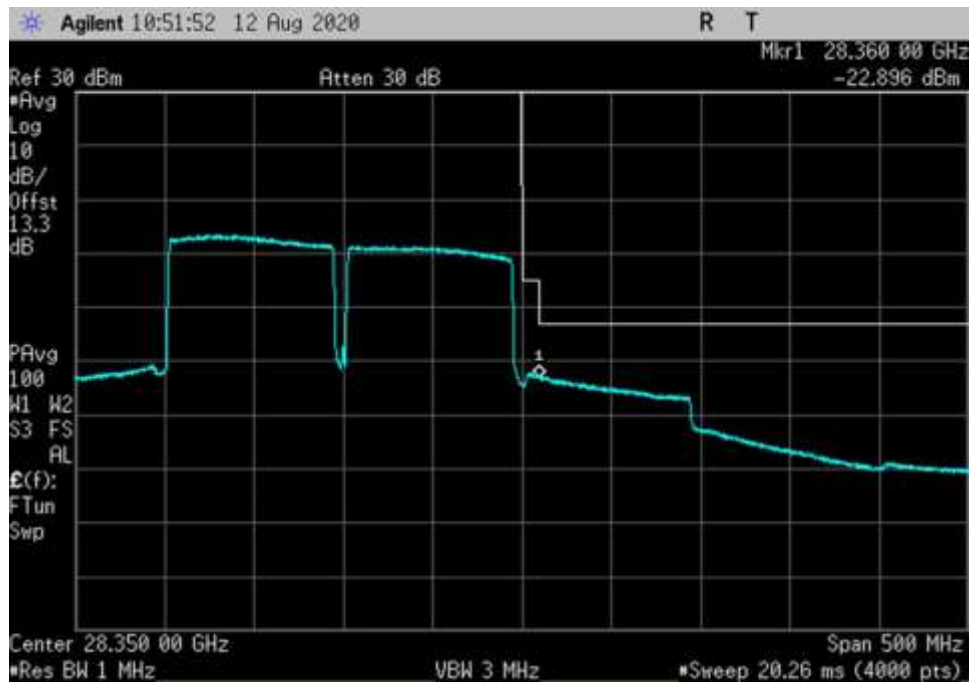
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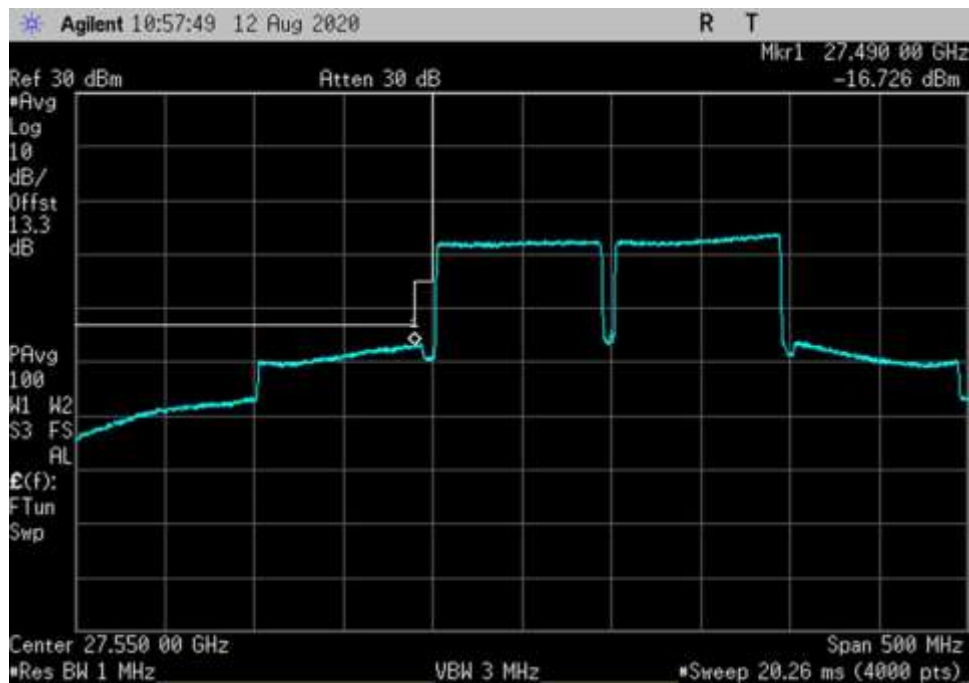
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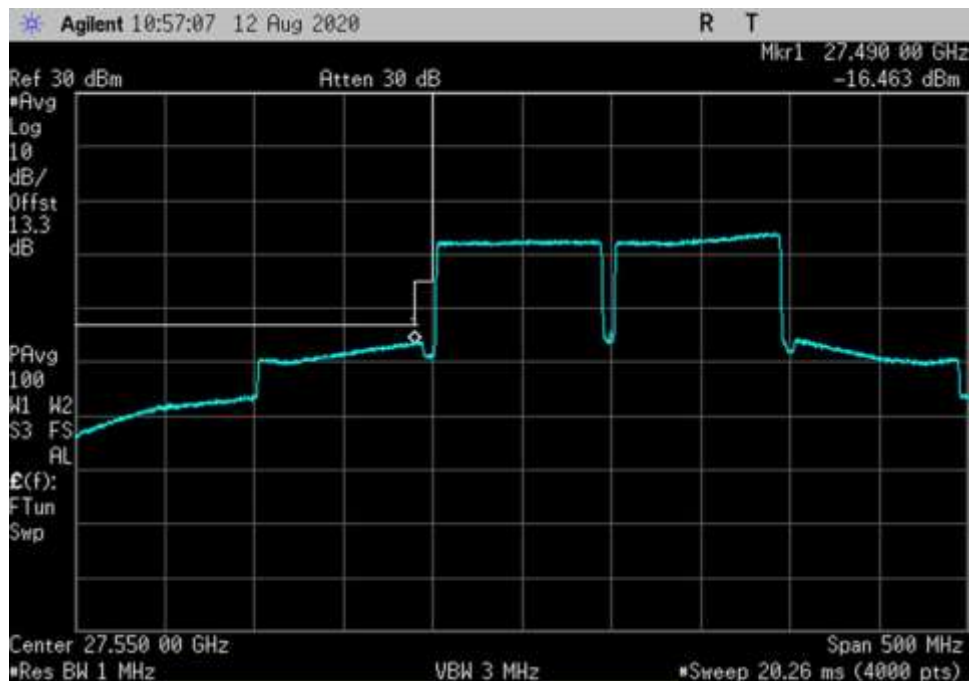
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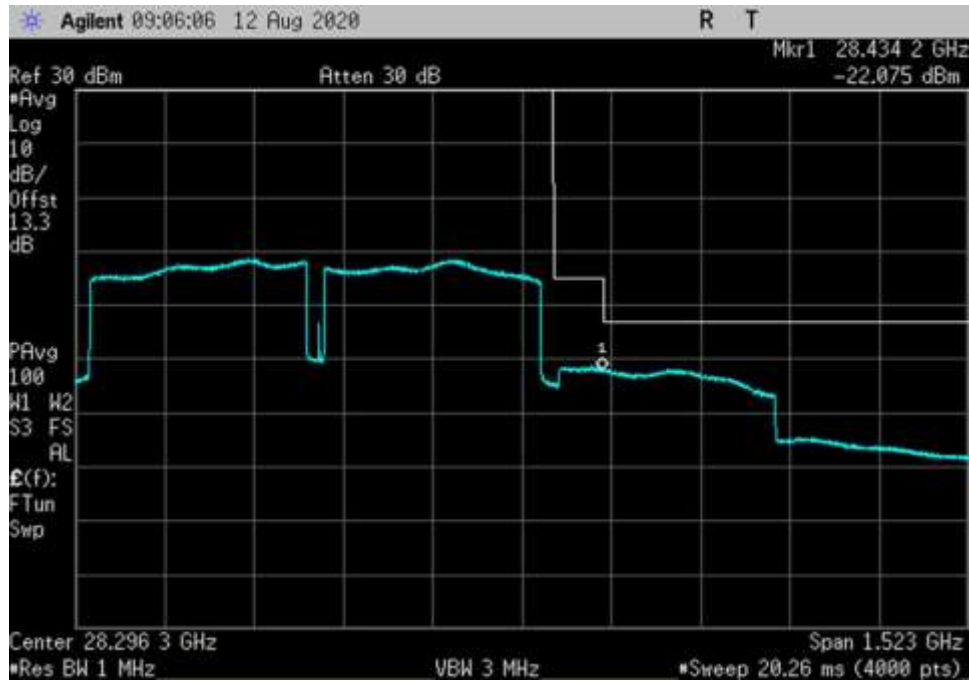
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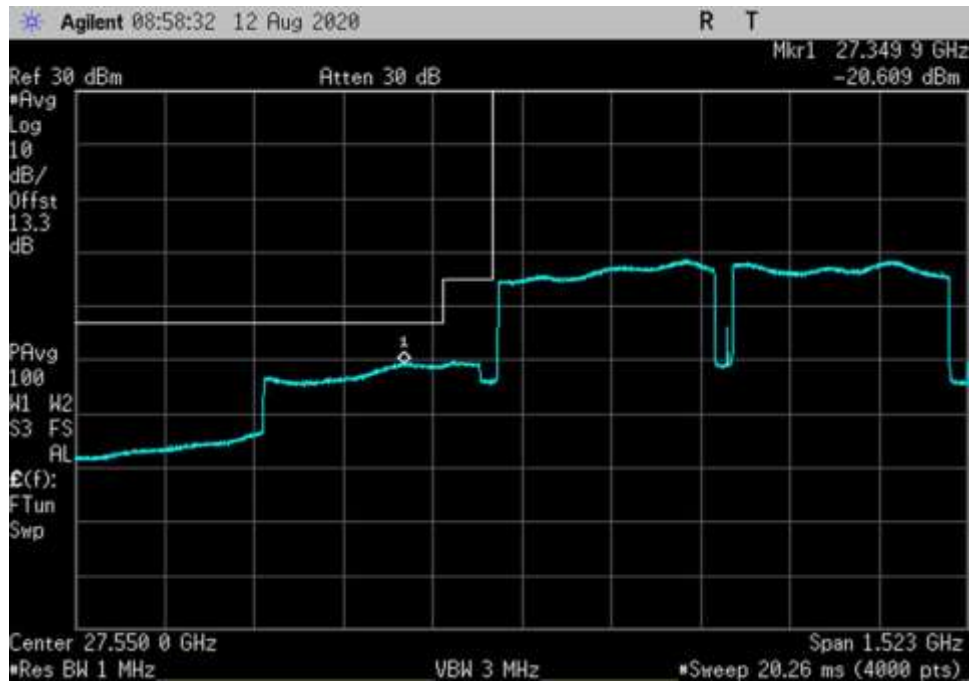
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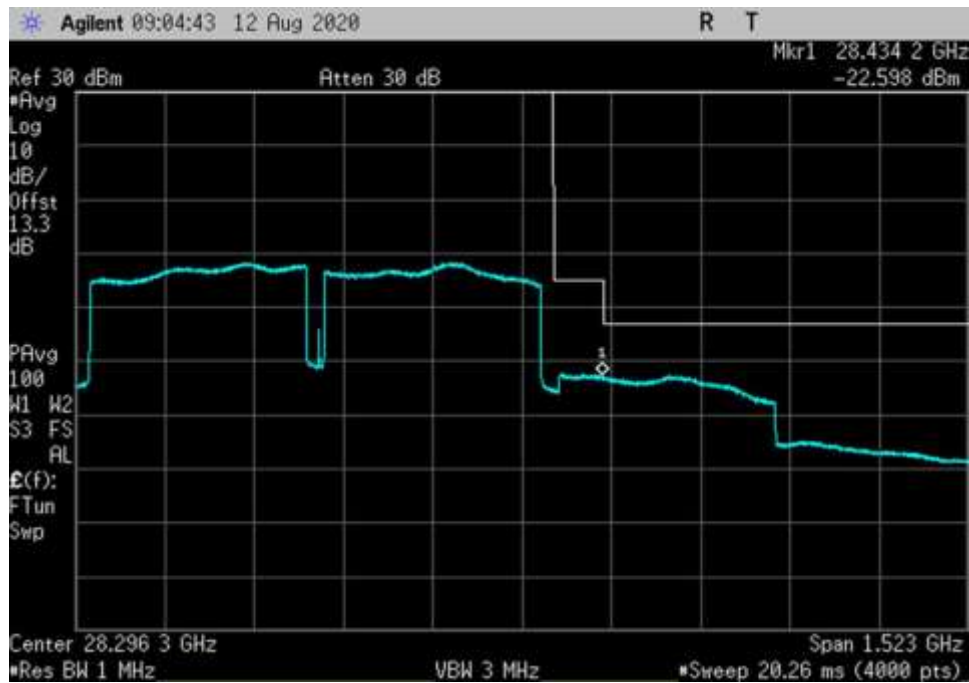
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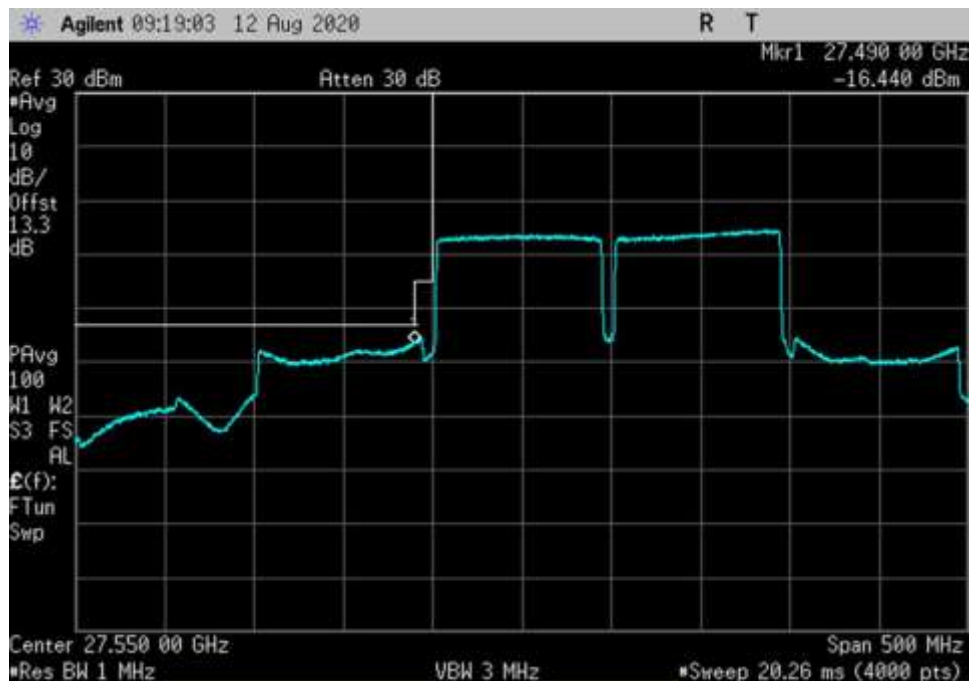
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UL_27500-28350-Pi/2- BPSK-100MHz-H-AGC+3-DFT OFDM_HC



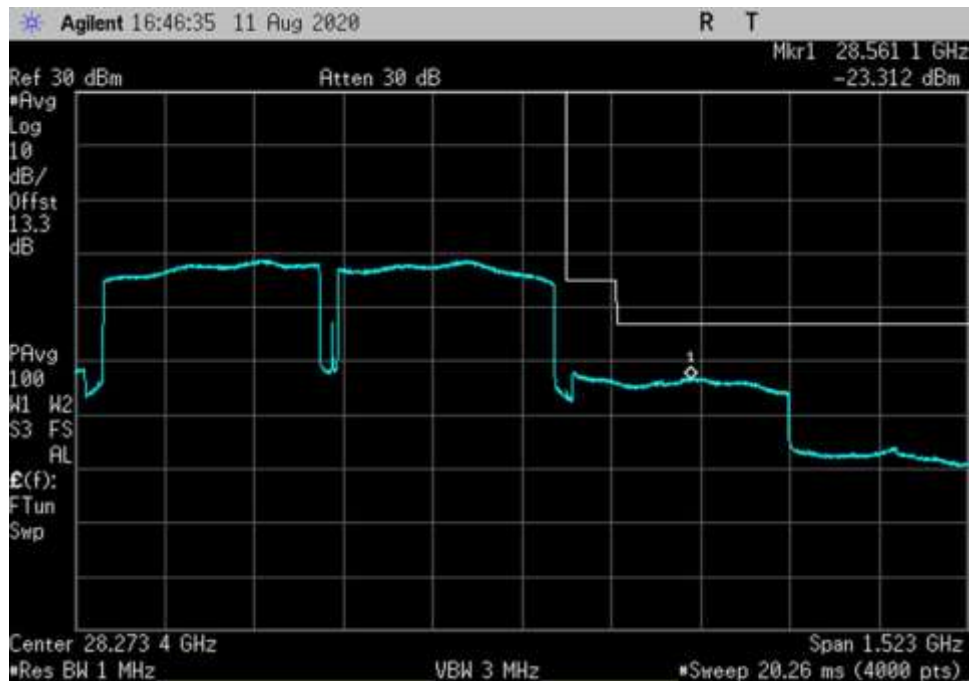
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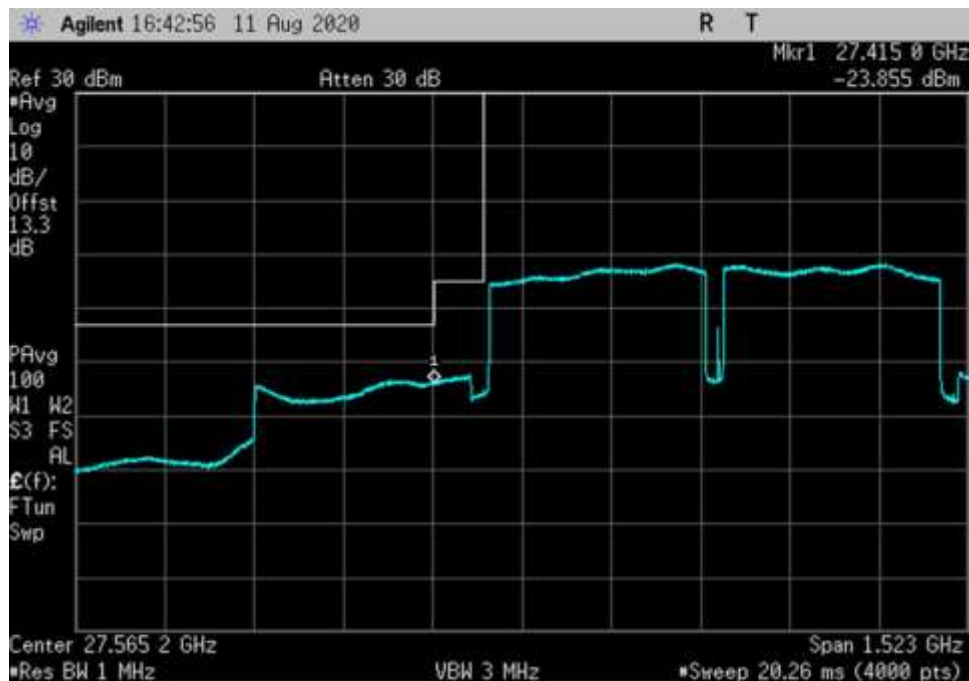
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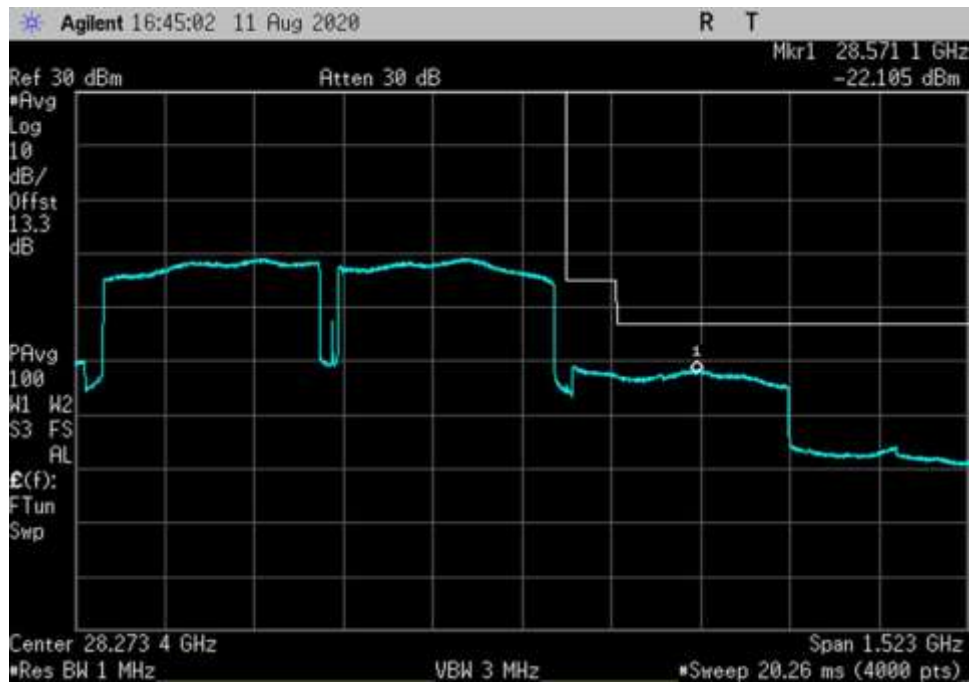
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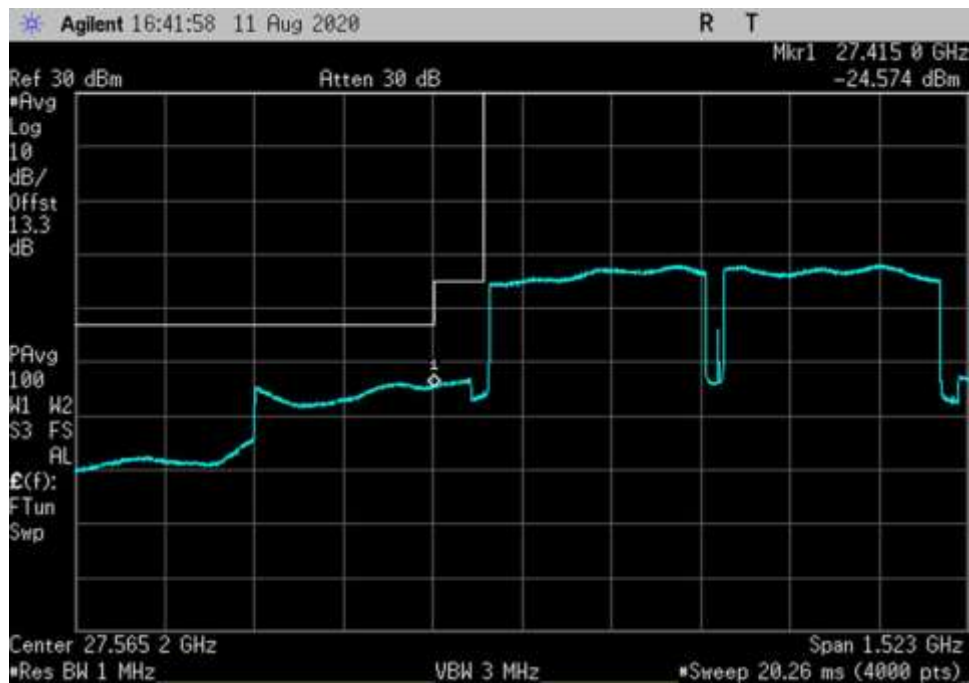
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UL_27500-28350-Pi/2- BPSK-400MHz-H-AGC+3-DFT OFDM_LC



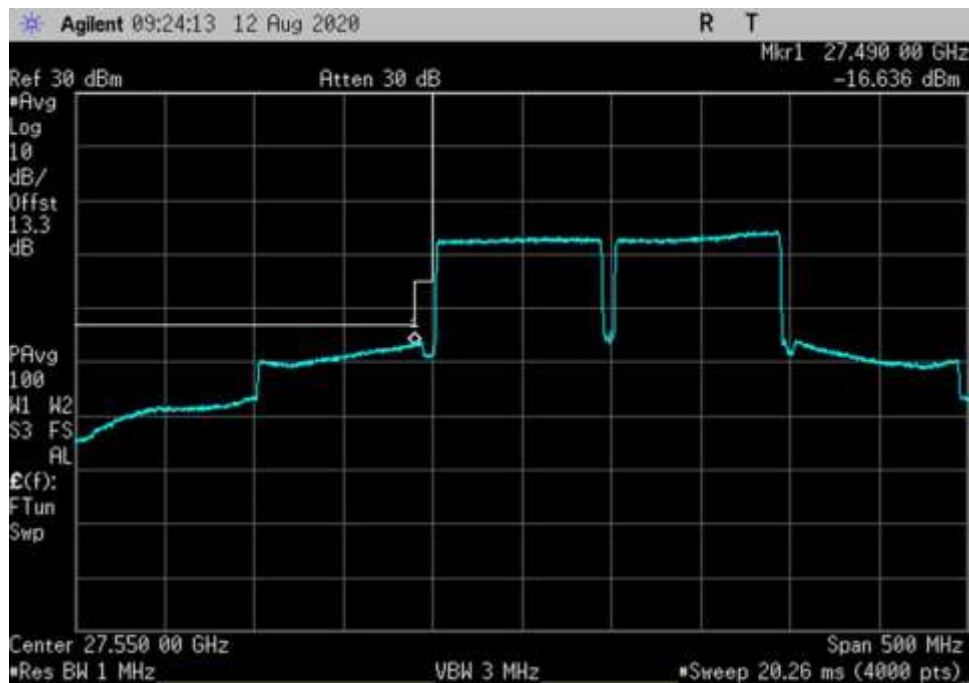
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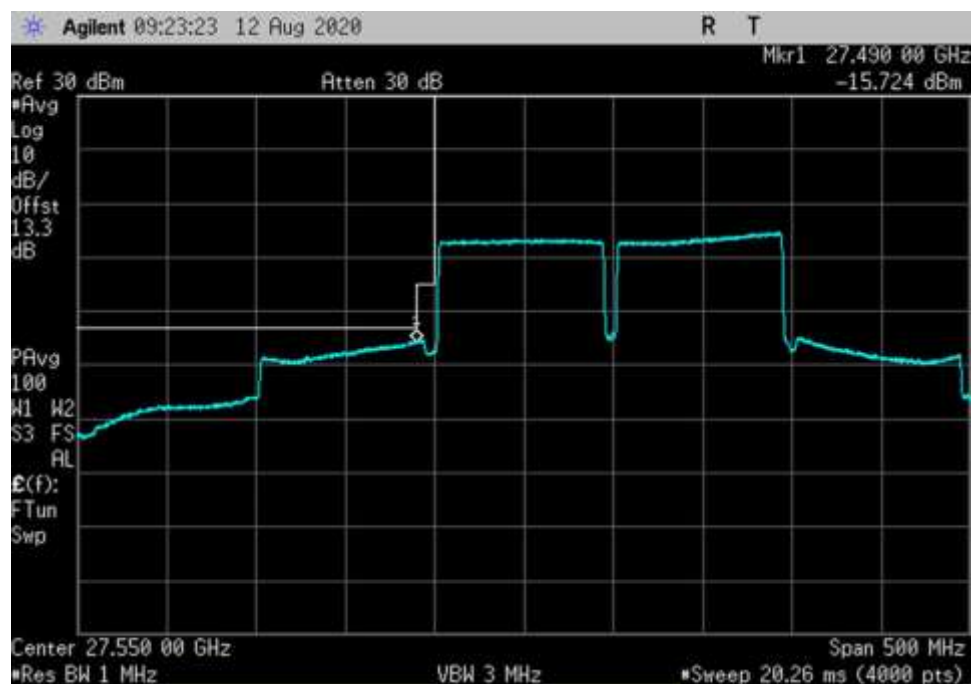
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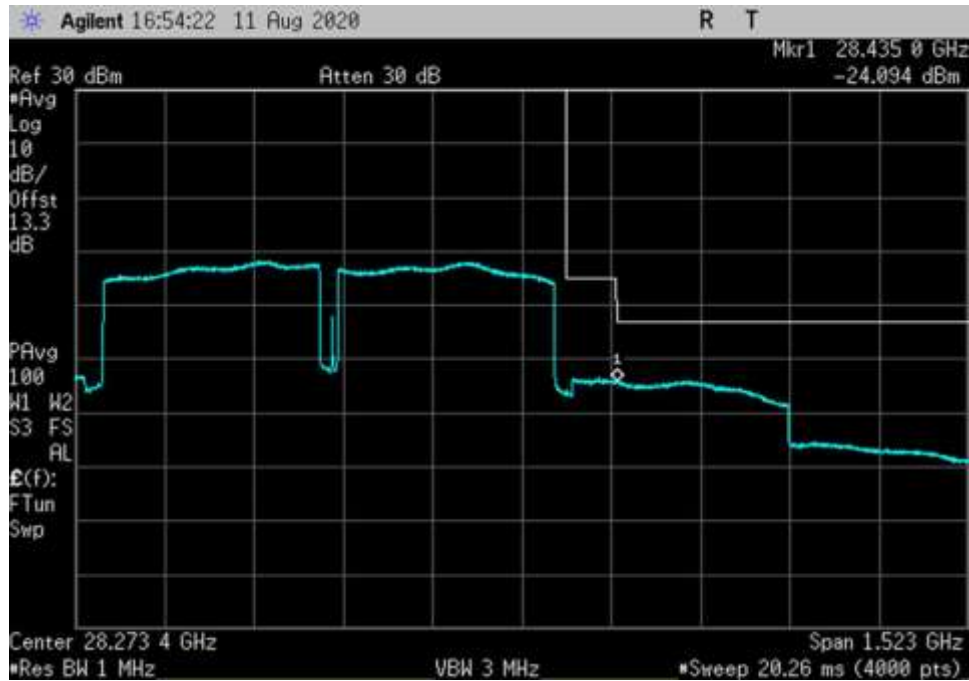
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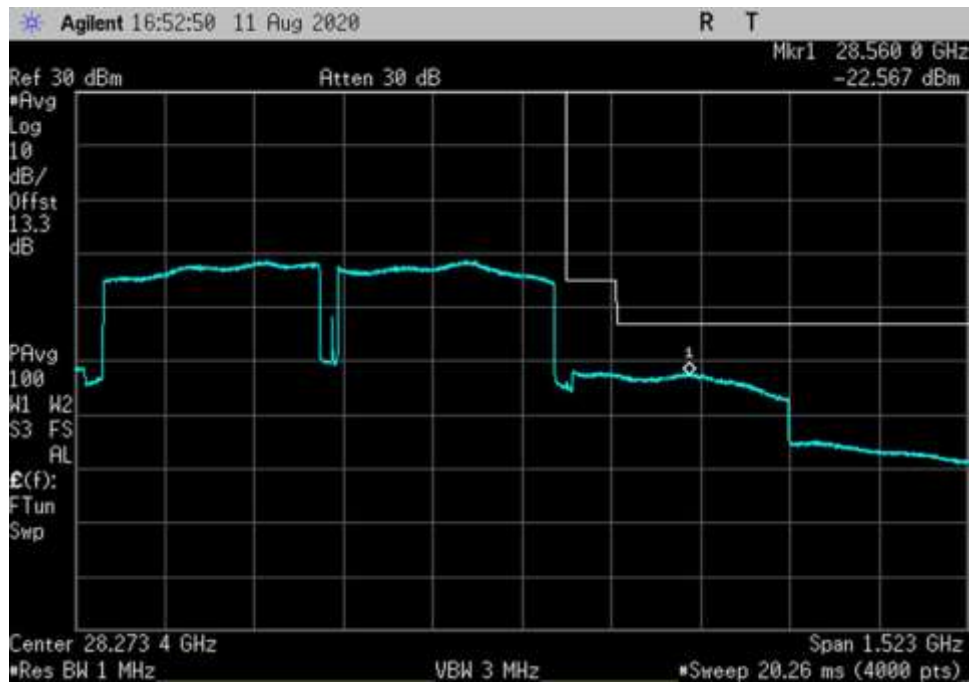
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UL_27500-28350-QPSK-400MHz-H-AGC+3-DFT OFDM_HC



UL_27500-28350-QPSK-400MHz-H-AGC+3-DFT OFDM_LC



UL_27500-28350-QPSK-400MHz-H-DFT OFDM_HC

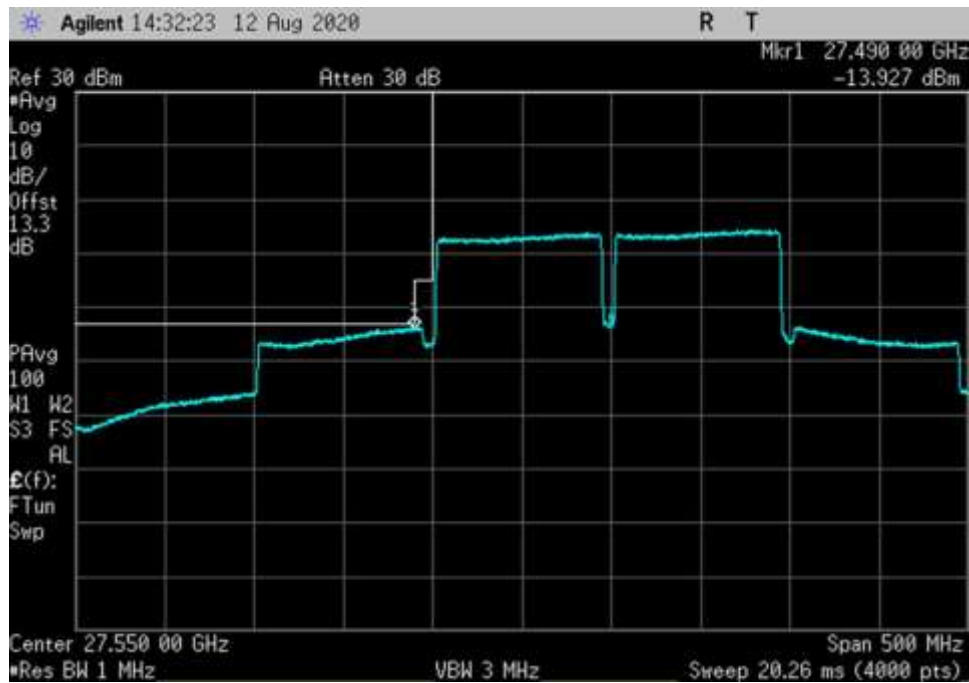


UL_27500-28350-QPSK-400MHz-H-DFT OFDM_LC

DFT – UL V



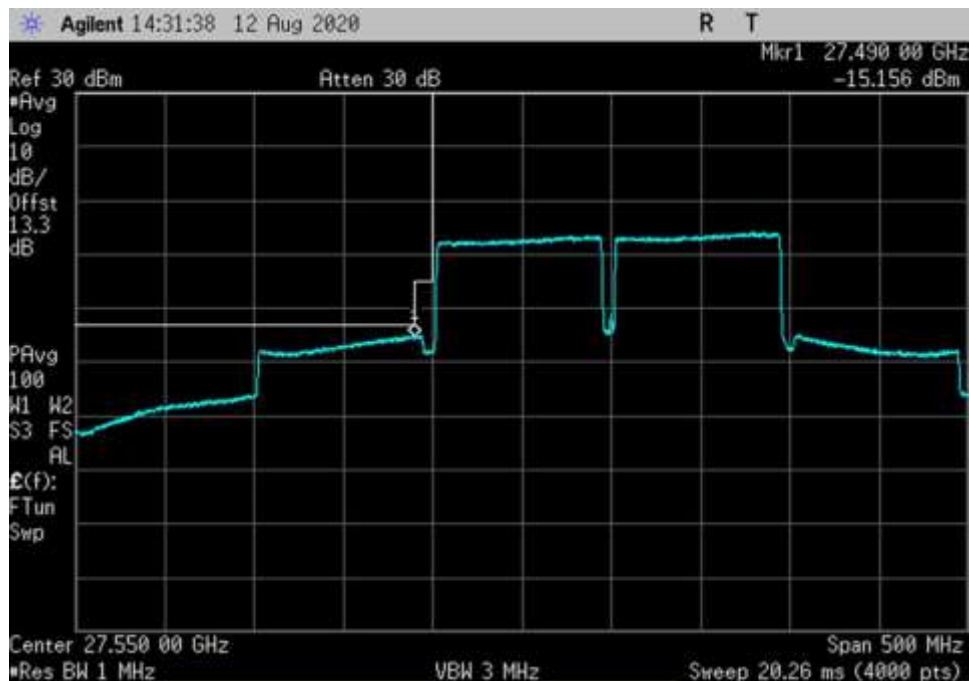
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UL_27500-28350-16QAM-100MHz-V-DFT OFDM_HC



UL_27500-28350-16QAM-100MHz-V-DFT OFDM_LC



UL_27500-28350-16QAM-400MHz-V-AGC+3-DFT OFDM_HC



UL_27500-28350-16QAM-400MHz-V-AGC+3-DFT OFDM_LC



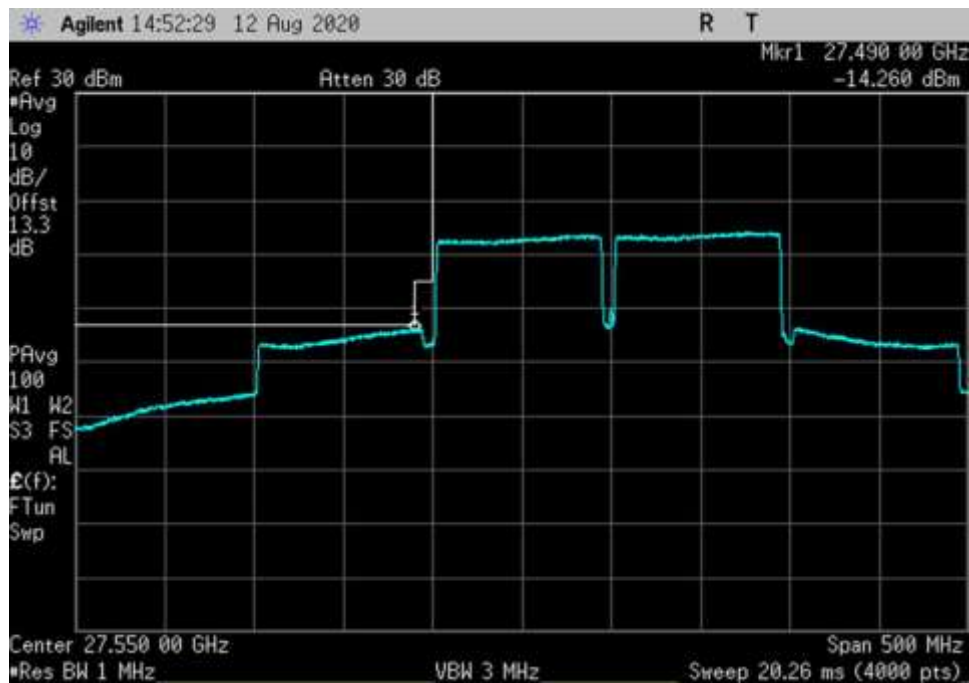
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UL_27500-28350-16QAM-400MHz-V-DFT OFDM_LC



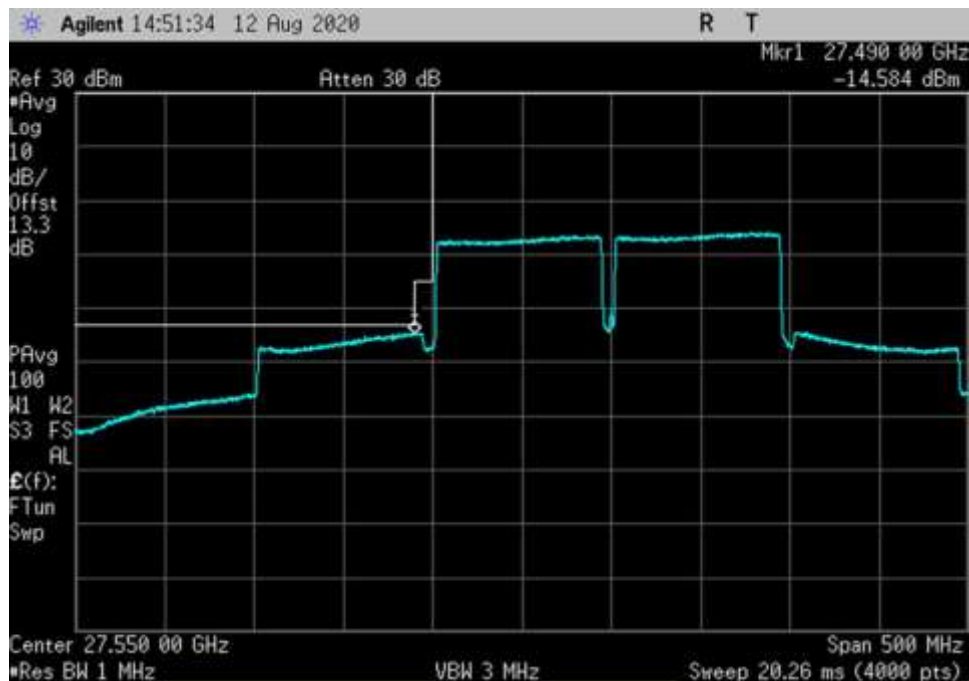
UL_27500-28350-64QAM-100MHz-V-AGC+3-DFT OFDM_HC



UL_27500-28350-64QAM-100MHz-V-AGC+3-DFT OFDM_LC



UL_27500-28350-64QAM-100MHz-V-DFT OFDM_HC



UL_27500-28350-64QAM-100MHz-V-DFT OFDM_LC



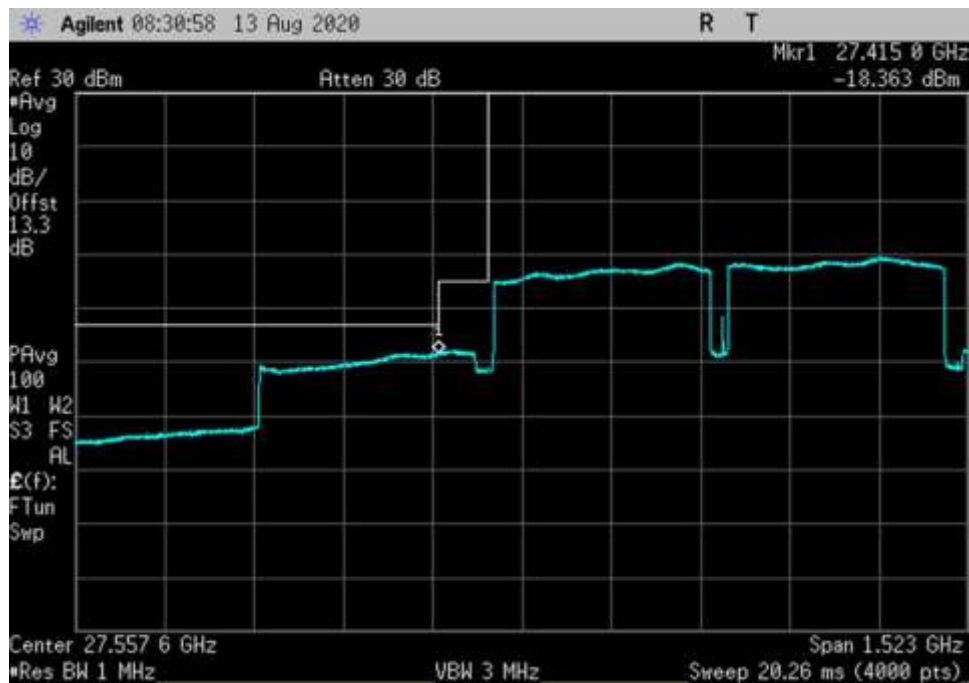
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UL_27500-28350-64QAM-400MHz-V-AGC+3-DFT OFDM_LC



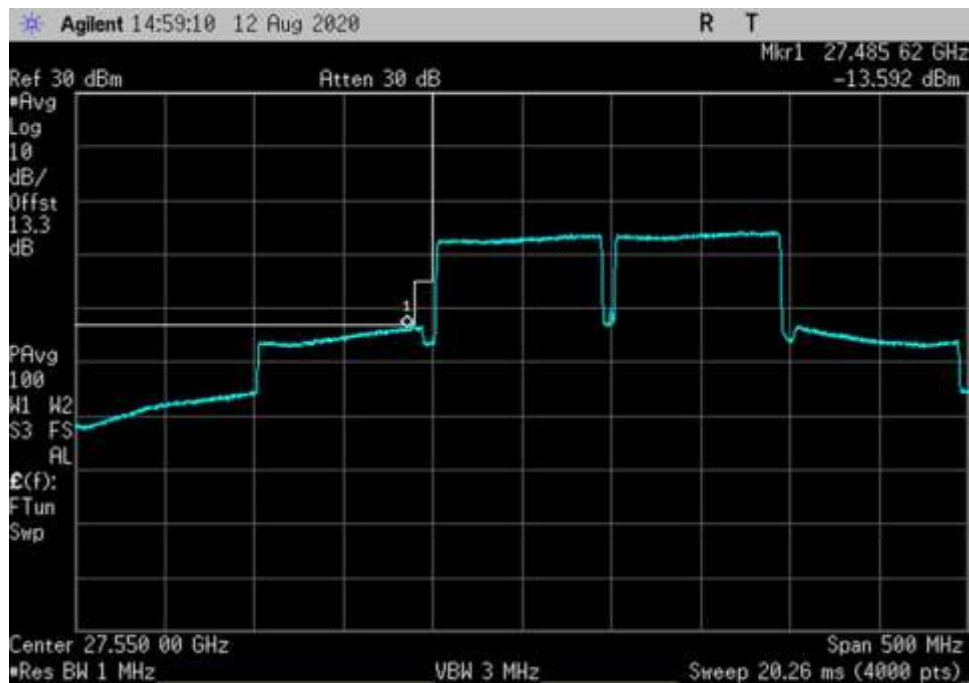
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UL_27500-28350-64QAM-400MHz-V-DFT OFDM_LC



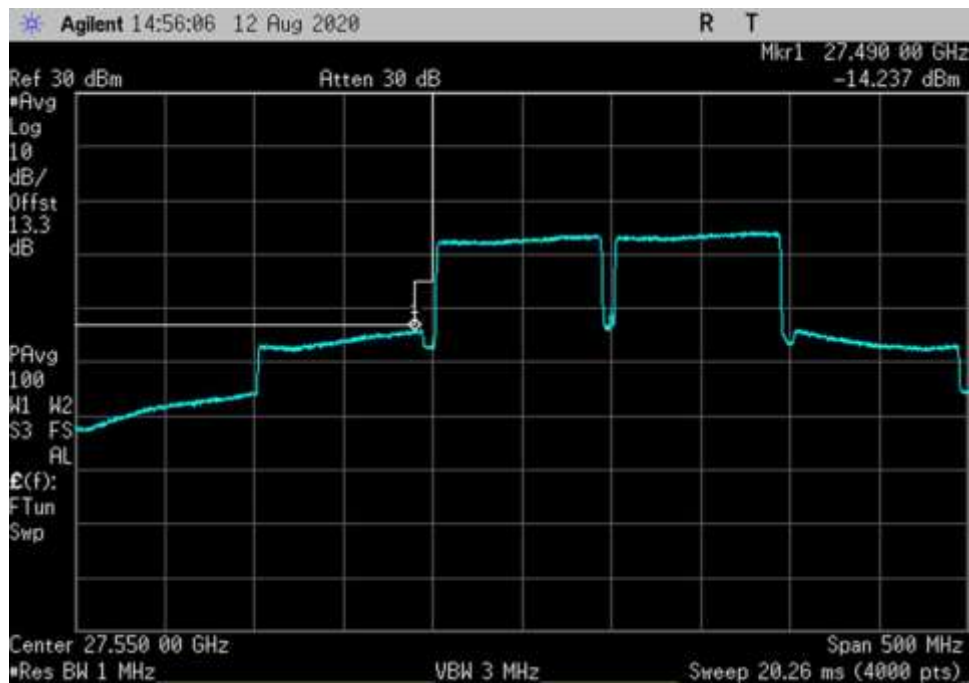
UL_27500-28350-256QAM-100MHz-V-AGC+3-DFT OFDM_HC



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UL_27500-28350-256QAM-100MHz-V-DFT OFDM_HC



UL_27500-28350-256QAM-100MHz-V-DFT OFDM_LC



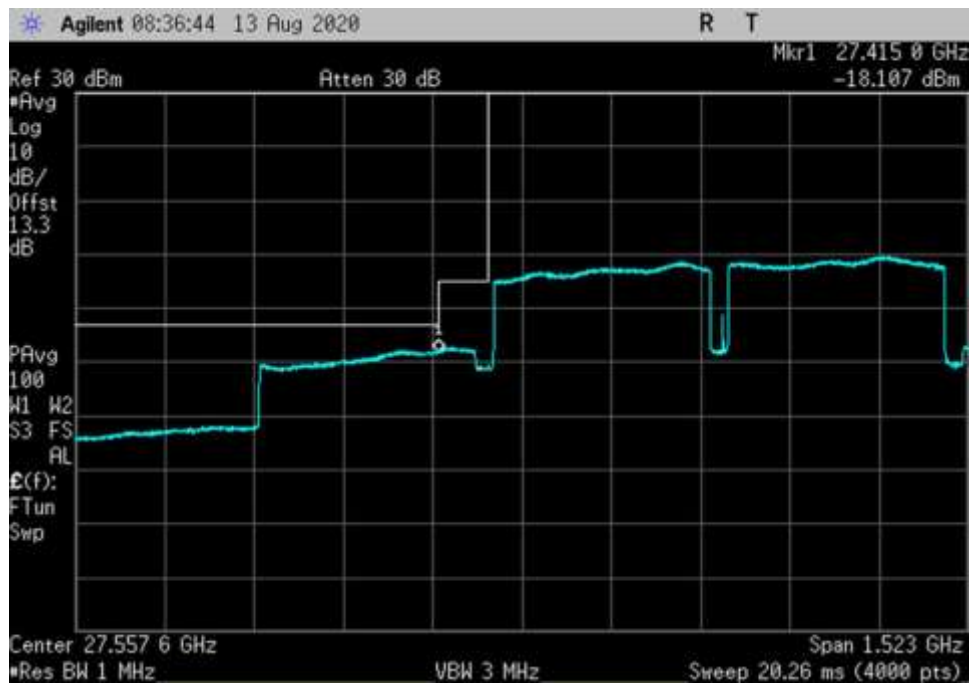
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UL_27500-28350-256QAM-400MHz-V-AGC+3-DFT OFDM_LC



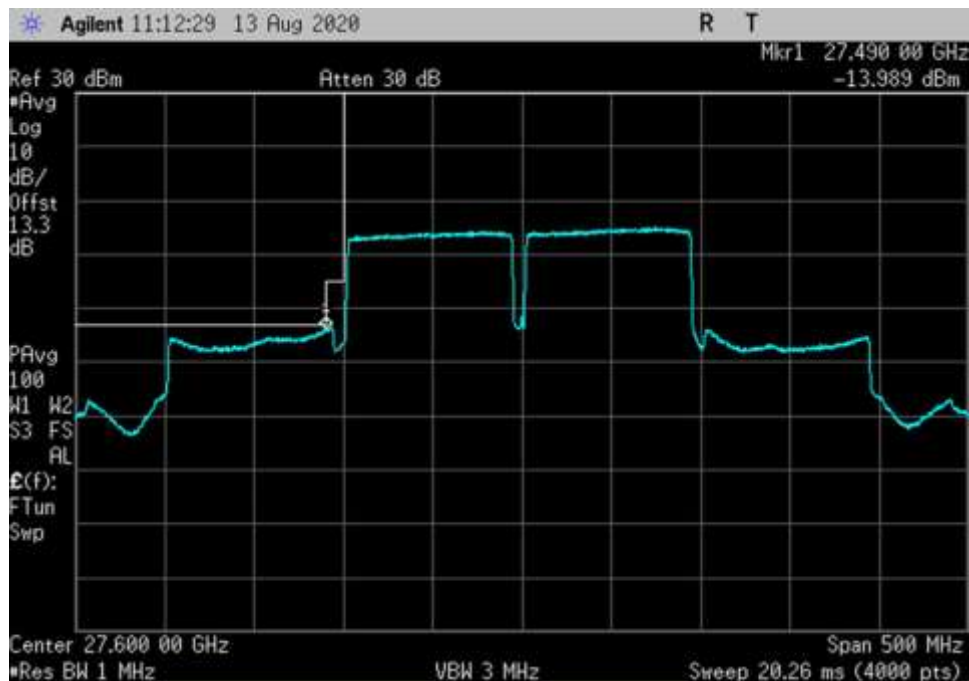
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UL_27500-28350-256QAM-400MHz-V-DFT OFDM_LC



UL_27500-28350-Pi/2- BPSK-100MHz-V-AGC+3-DFT OFDM_HC



UL_27500-28350-Pi/2- BPSK-100MHz-V-AGC+3-DFT OFDM_LC



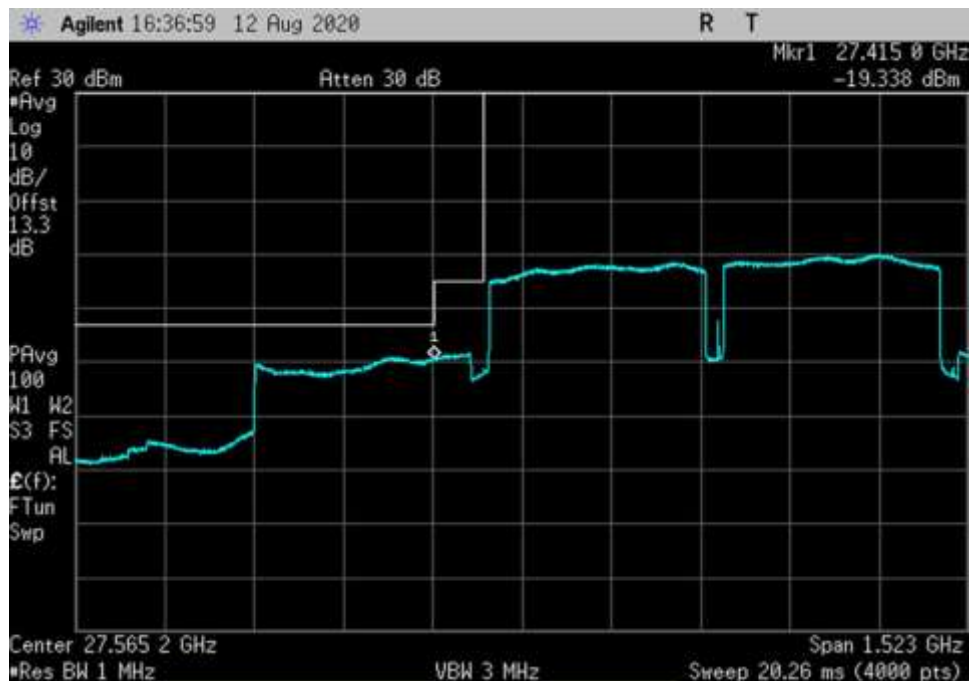
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UL_27500-28350-Pi/2- BPSK-100MHz-V-DFT OFDM_LC



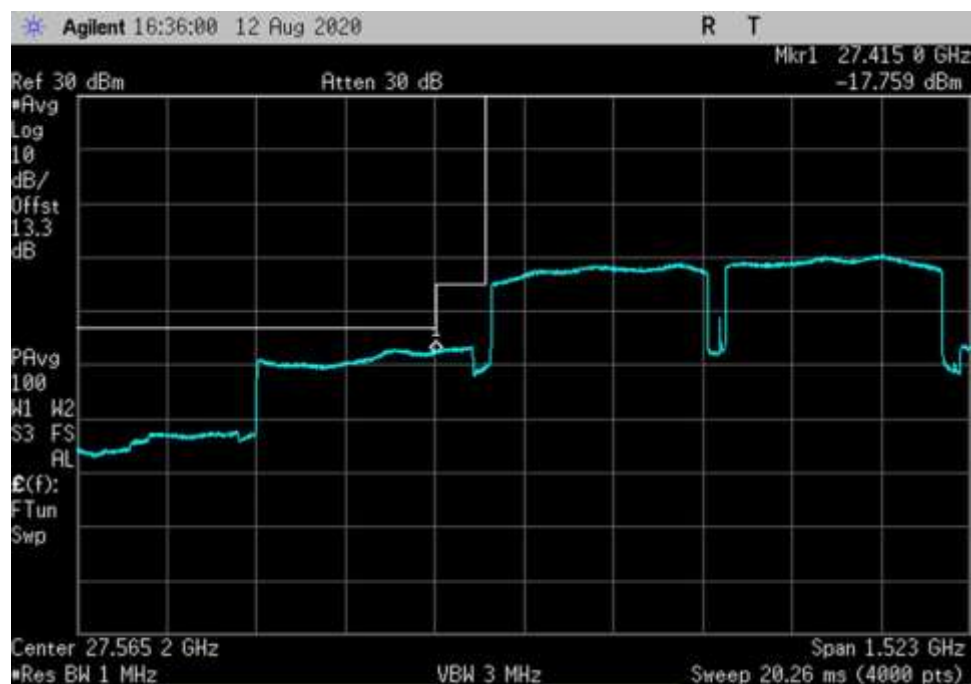
UL_27500-28350-Pi/2- BPSK-400MHz-V-AGC+3-DFT OFDM_HC



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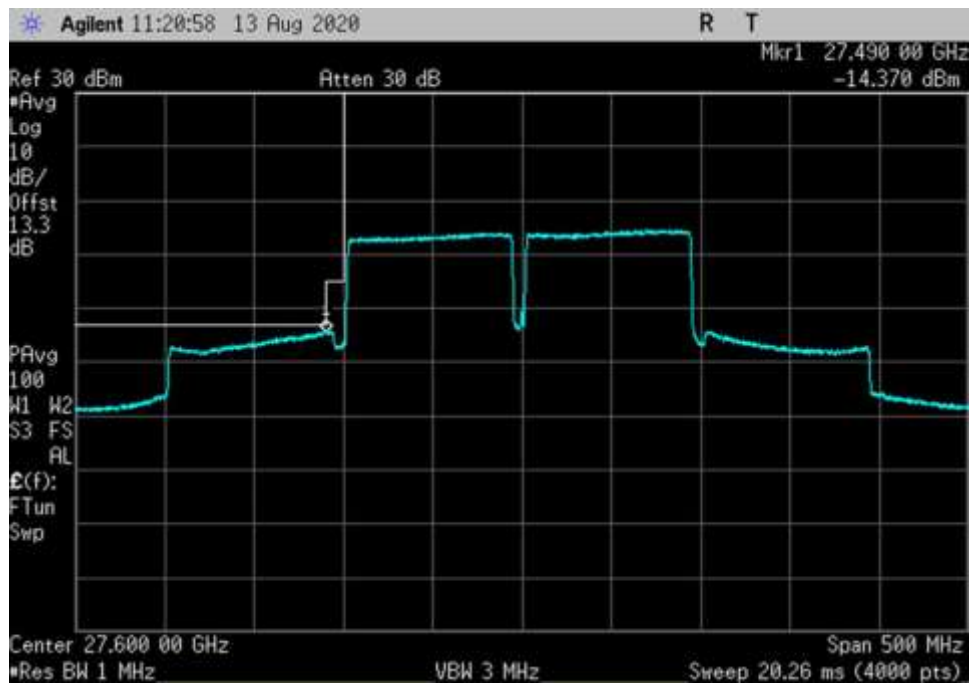
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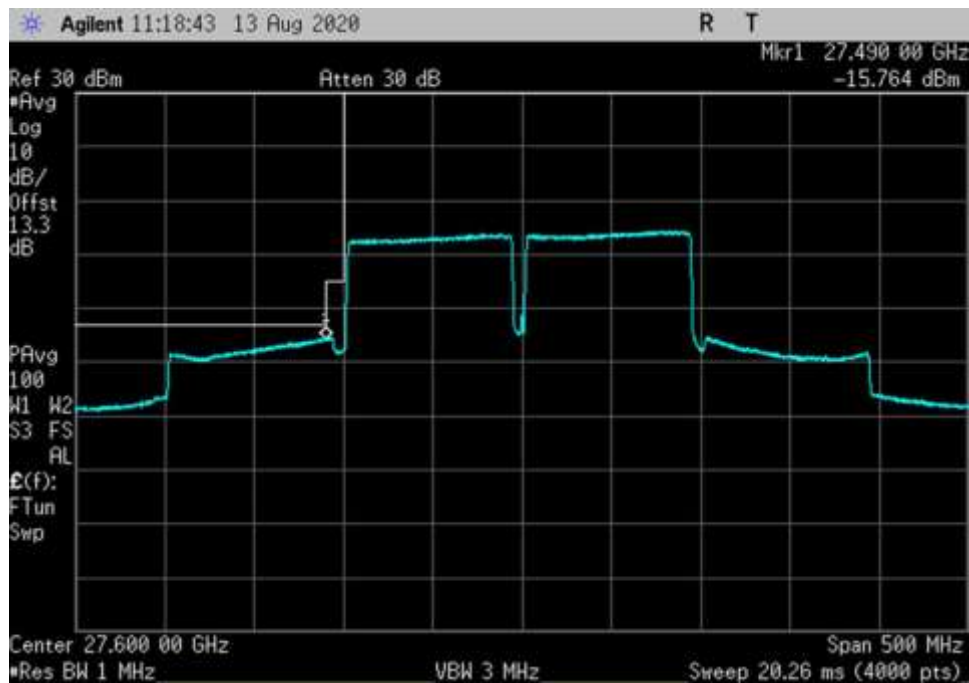
UL_27500-28350-QPSK-100MHz-V-AGC+3-DFT OFDM_HC



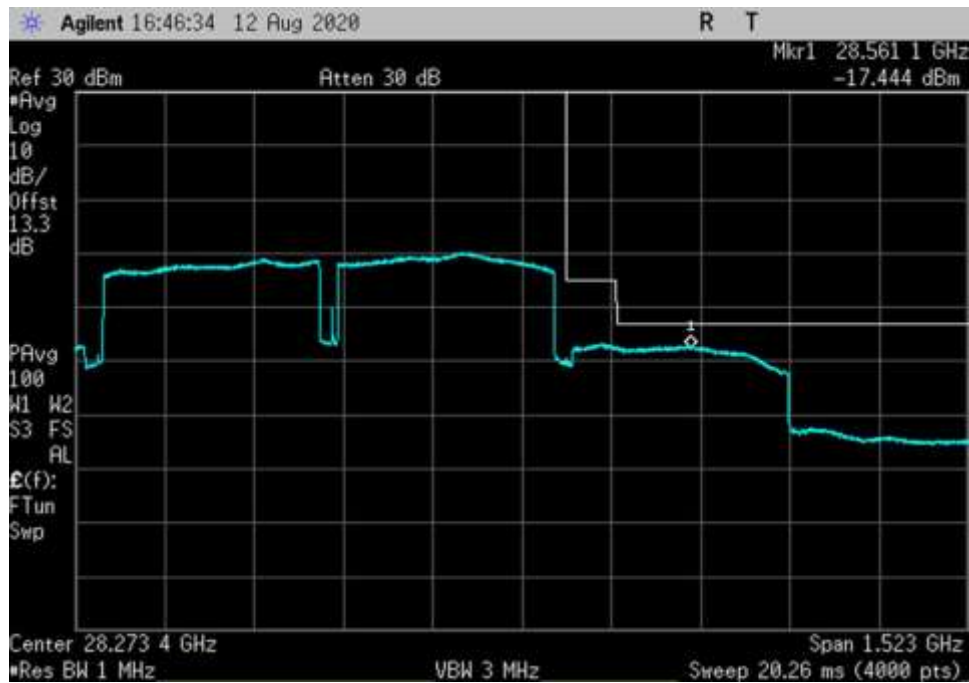
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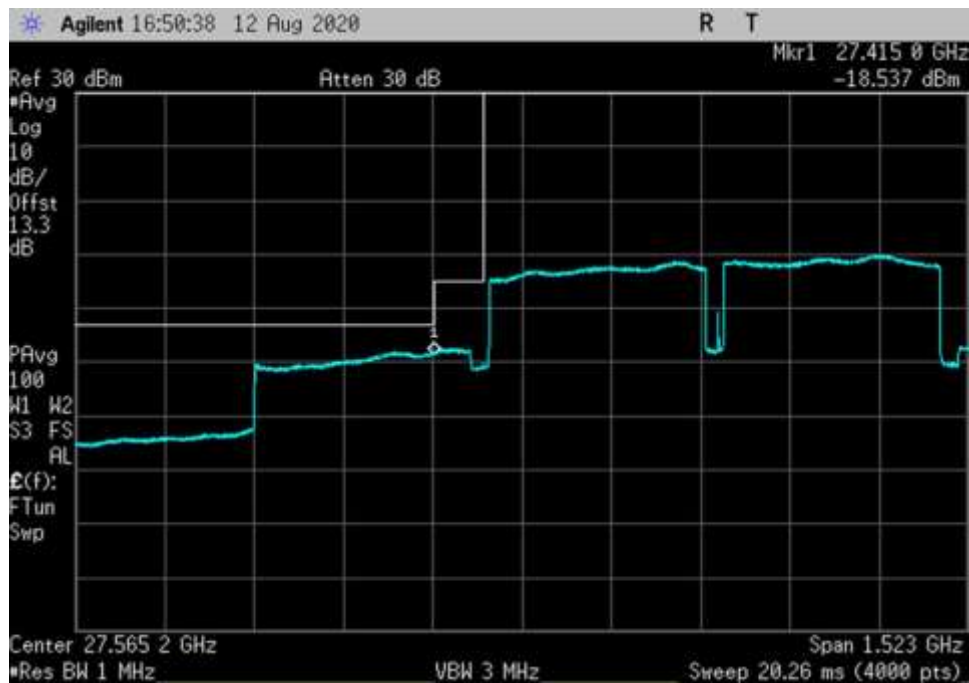
UL_27500-28350-QPSK-100MHz-V-DFT OFDM_HC



UL_27500-28350-QPSK-100MHz-V-DFT OFDM_LC



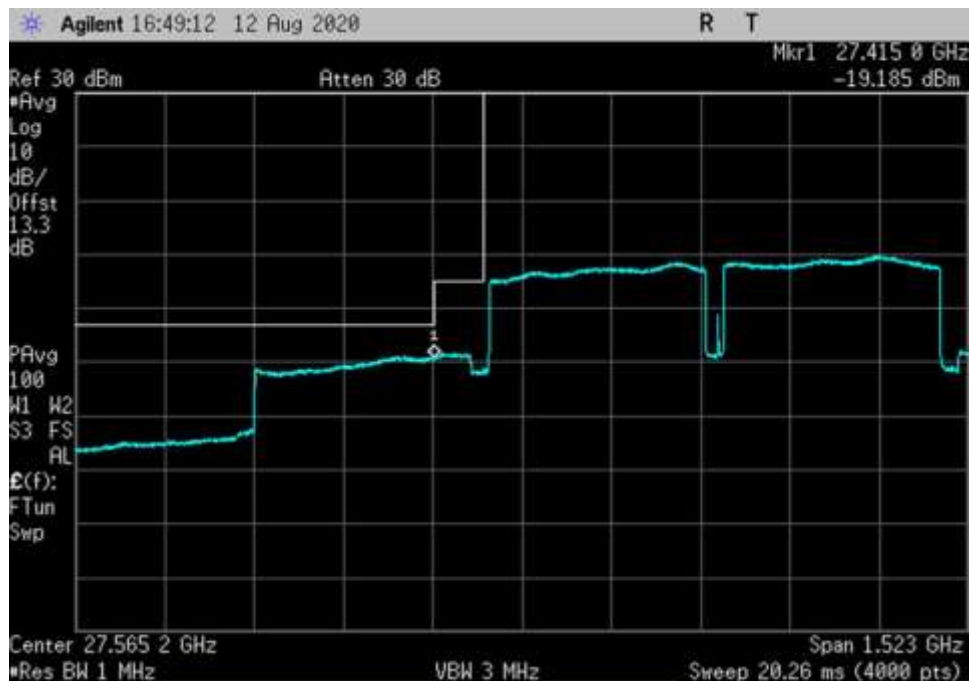
UL_27500-28350-QPSK-400MHz-V-AGC+3-DFT OFDM_HC



UL_27500-28350-QPSK-400MHz-V-AGC+3-DFT OFDM_LC



UL_27500-28350-QPSK-400MHz-V-DFT OFDM_HC



UL_27500-28350-QPSK-400MHz-V-DFT OFDM_LC

3.6.3 Conducted Spurious Emissions

Test Setup/Conditions			
Test Location:	Fremont	Test Engineer:	H. Nguyenpham
Test Date(s):	9/4/2020		
Configuration:	1		
Test Setup:	See General Test Setup Frequency range of measurement = 30MHz- 40GHz. 30 MHz - 1000MHz -> RBW*= 1MHz VBW= 3MHz 1000 MHz - 24000MHz ->RBW= 1MHz VBW= 3MHz For frequencies >40GHz, unwanted emissions measurements are performed using radiated method with antenna attached due to impracticality of performing conducted measurements with external mixer connections *Note: As specified on 3.6.3 Conducted spurious emissions test procedure of 935210 D05 Industrial Booster Measurements v01r04, for frequencies below 1 GHz, an RBW of 1 MHz may be used in a preliminary measurement. If non-compliant emissions are detected, a final measurement shall be made with a 100 kHz RBW. Additionally, a peak detector may also be used for the preliminary measurement. If non-compliant emissions are detected, then a final measurement of these emissions shall be made with the power averaging (RMS) detector. Note 1/ Base on the result of section 3.5 Mean output power and gain, unwanted emissions for conducted method are performed on the worst scenarios such as below a/ DL-V and DL-H: Multiple Access Scheme CP-OFDM, fo Channel, Number of Resource Block= 1 and Full b/ UL-V and UL-H: Multiple Access Scheme DFT-s-OFDM, fo Channel, Number of Resource Block=1 and Full		
Declaration:	Modification #1 was in place during testing.		

Environmental Conditions					
Temperature (°C)	22.0	Relative Humidity (%):	45	Pressure: kPa	102.1

Test Equipment					
Asset#	Description	Manufacturer	Model	Cal Date	Cal Due
P05411	Attenuator	Weinschel	54A-10	11/27/2019	11/27/2021
P07192	Cable	Astro	32022-29094K-29094K-48TC	11/27/2019	11/27/2021
03360	Cable	Astrolab	32022-2-29094-36TC	4/9/2020	4/9/2022
02668	Spectrum Analyzer	Agilent	E4446A	12/17/2019	12/17/2020
R00173	Vector Signal Generator	Rohde & Schwarz	SMW200A-B140	7/22/2019	7/22/2022

Summary of Results

Pass: As summarized in plots below, the conducted spurious emissions are within limits.

9 kHz-30 MHz

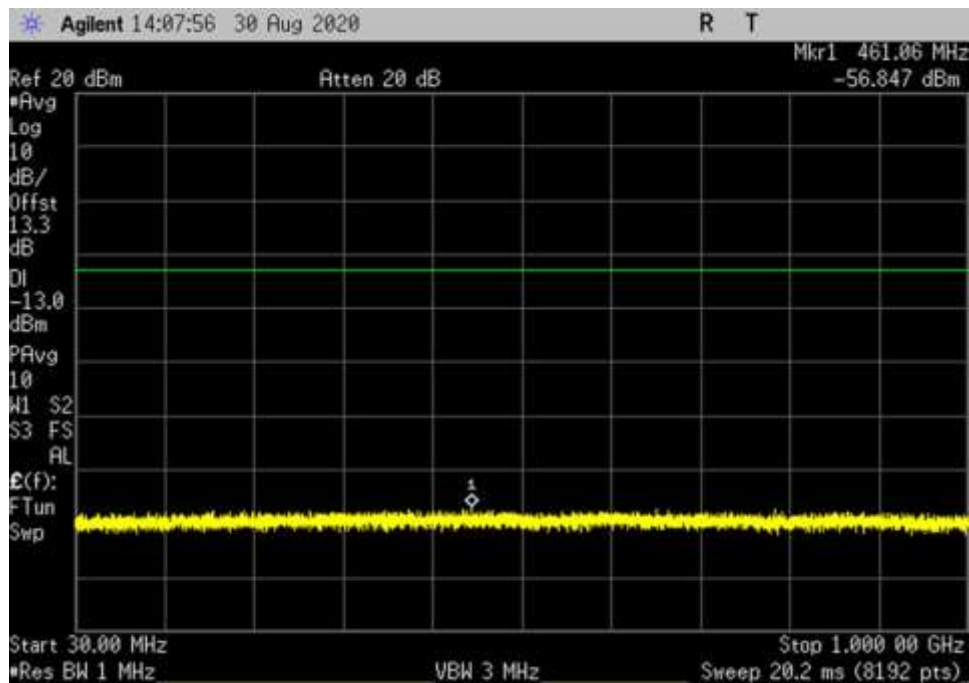
No Conducted Spurious Emissions were found within 20dB of the limit.

Limit Line For Spurious Conducted Emission

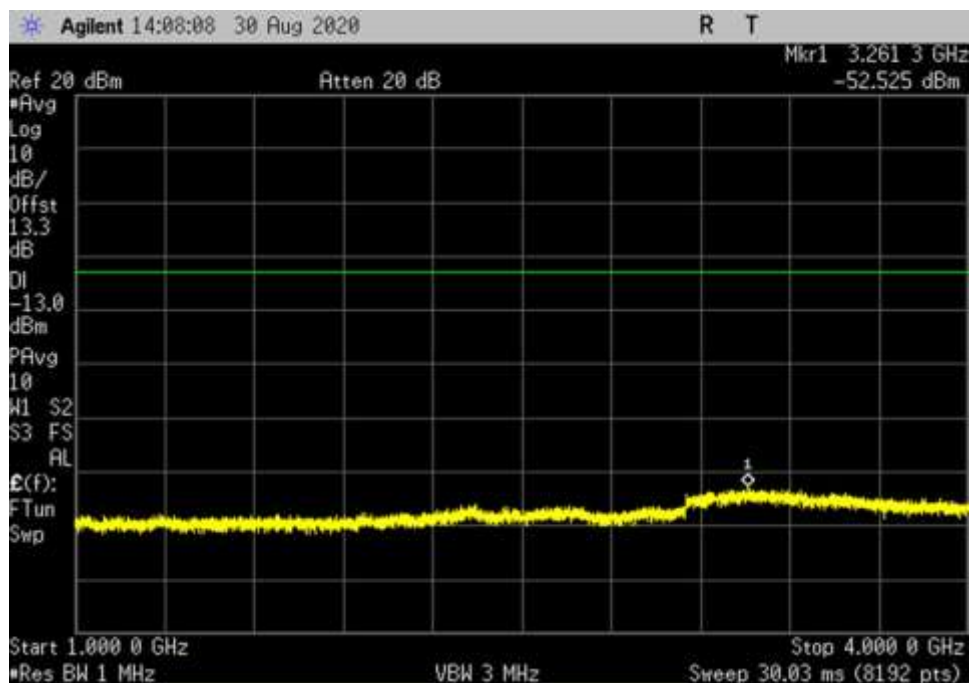
According to Section 30.203(a), 12 the conductive power or the total radiated power of any emission outside a licensee's frequency block¹³ shall be -13 dBm/MHz or lower. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10% of the channel bandwidth, the conductive power or the total radiated power of any emission shall be -5 dBm/MHz or lower

In final installation, all ports are connected to crossed polarized antenna element. Linear summation of measured parameter is not applicable. Conducted measurement was performed at each RF output port.

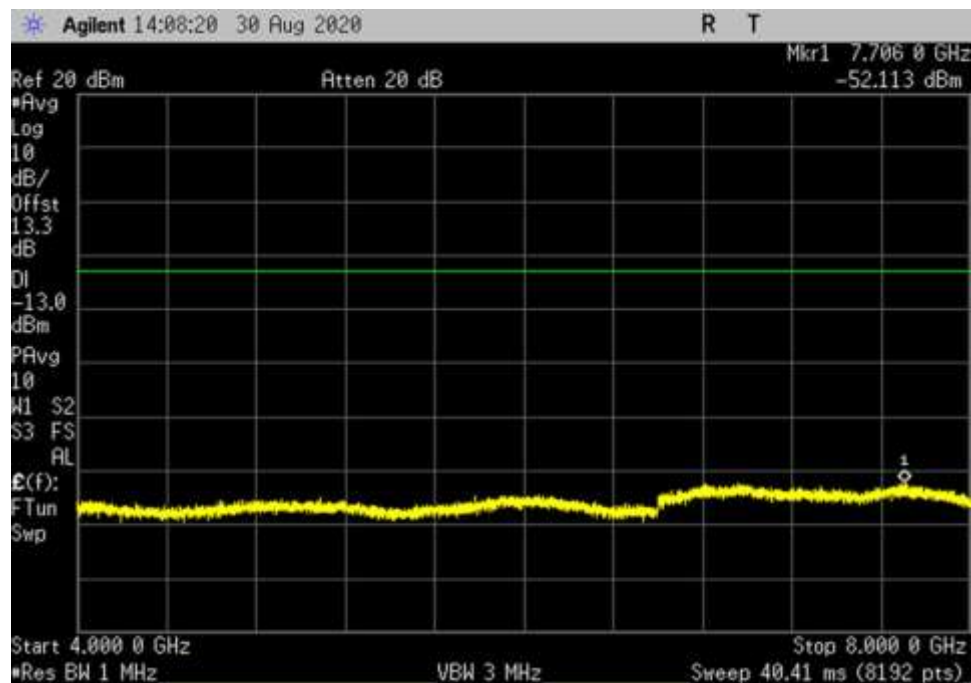
Plots
CP – DL H



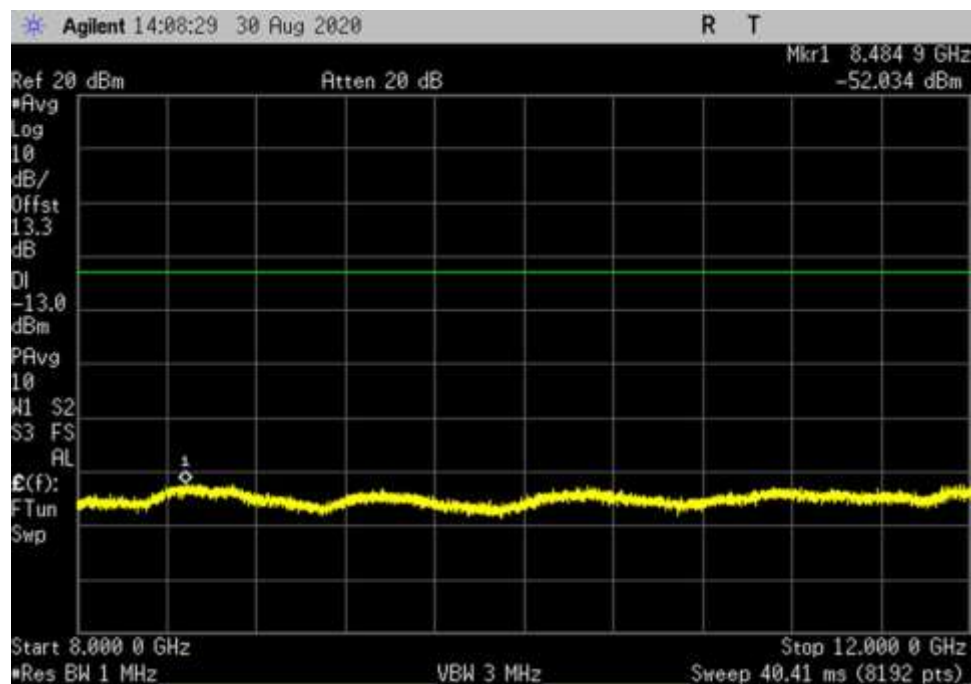
DL_H_16QAM_100MHz_Full_CP_30-1000MHz_fo



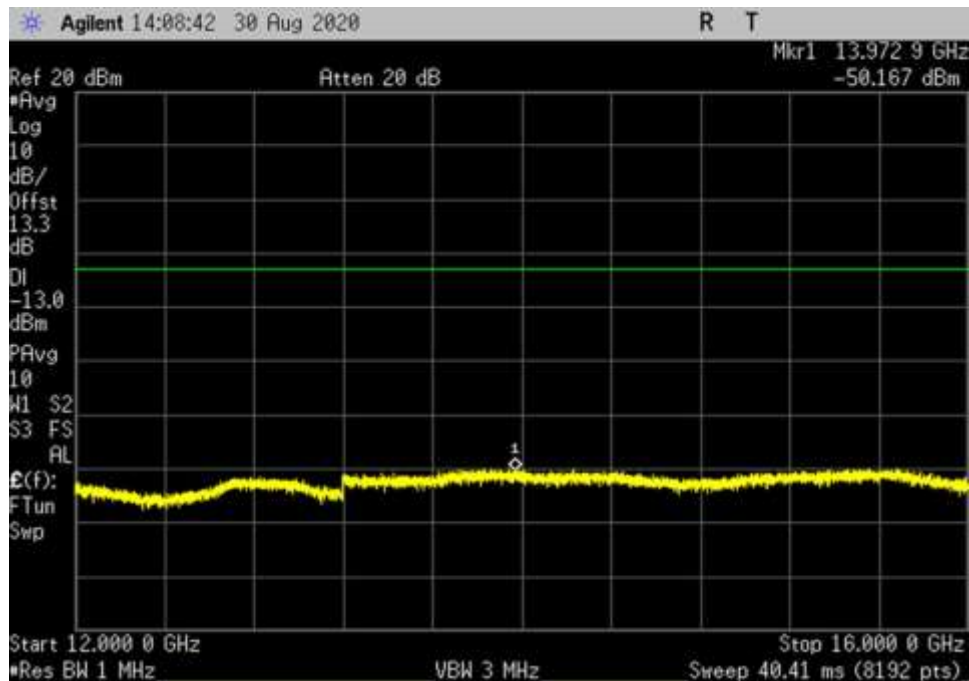
DL_H_16QAM_100MHz_Full_CP_1000-4000MHz_fo



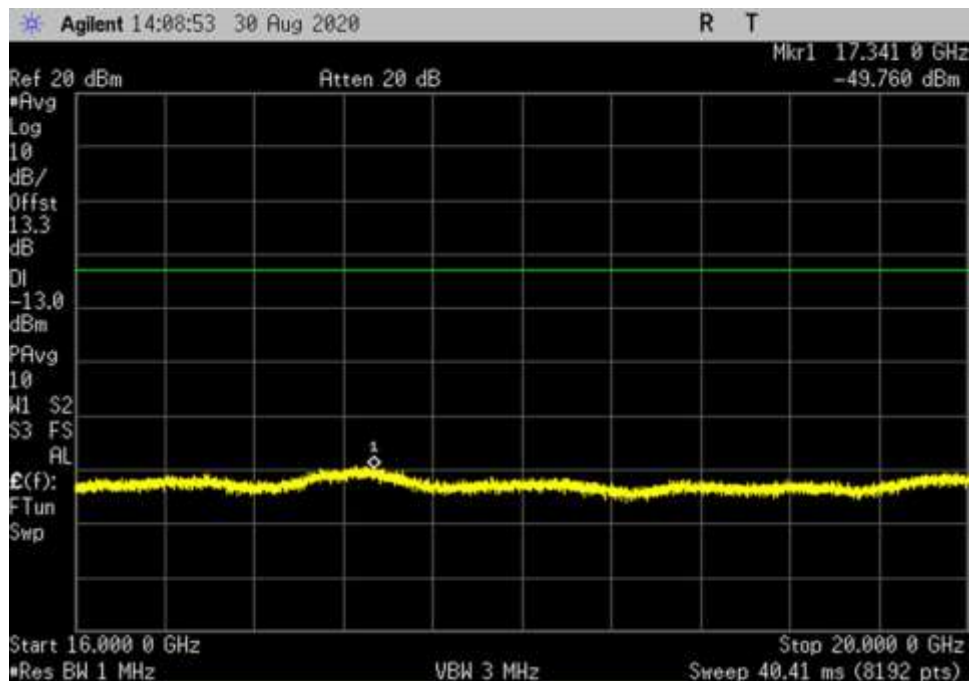
DL_H_16QAM_100MHz_Full_CP_4000- 8000MHz_fo



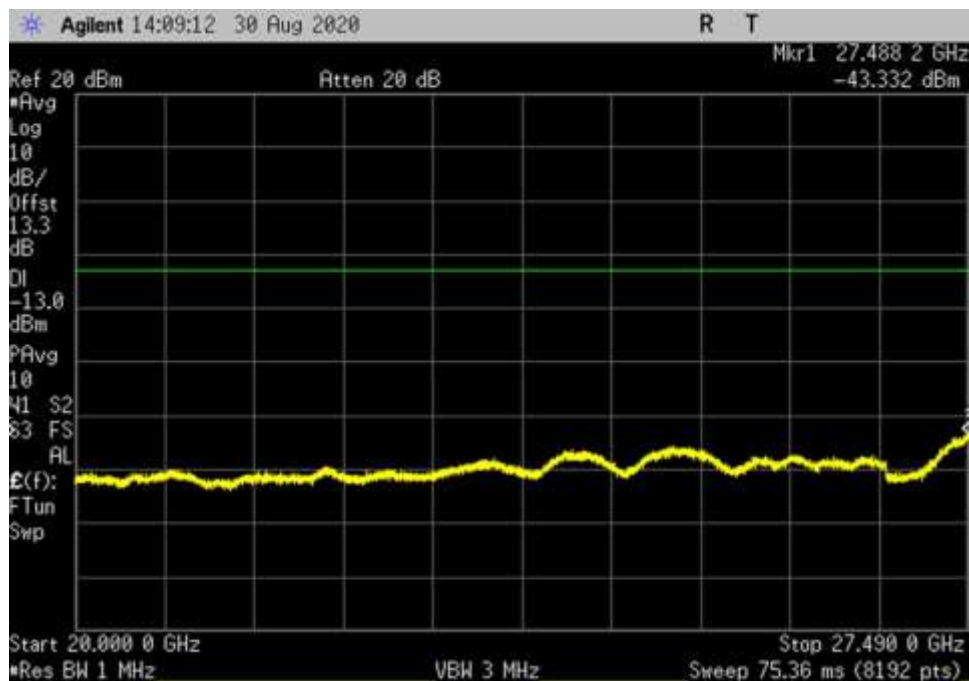
DL_H_16QAM_100MHz_Full_CP_8000- 12000MHz_fo



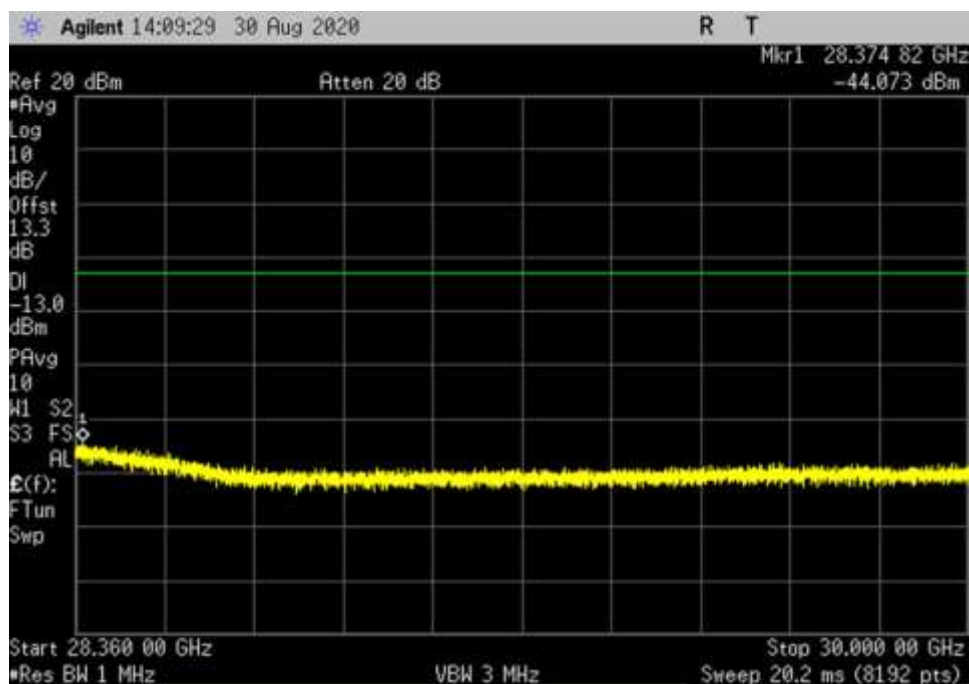
DL_H_16QAM_100MHz_Full_CP_12000-16000MHz_fo



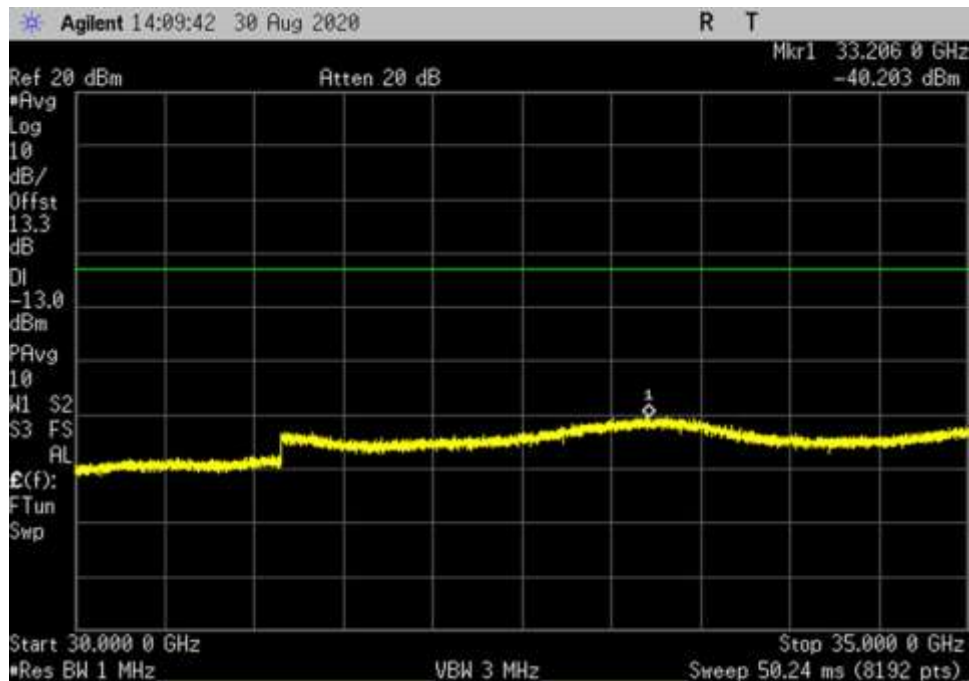
DL_H_16QAM_100MHz_Full_CP_16000-20000MHz_fo



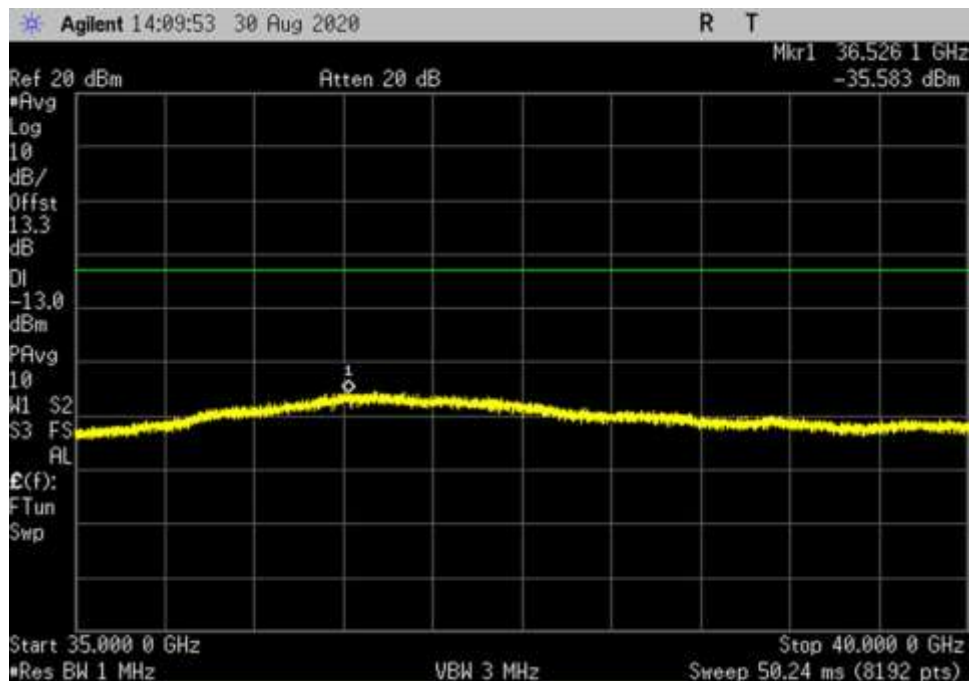
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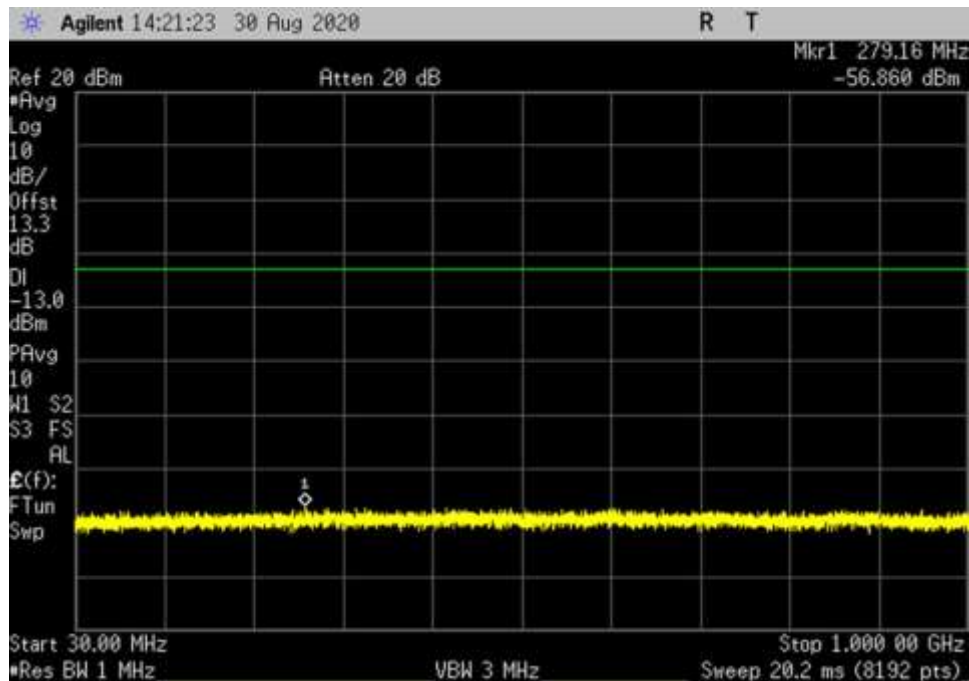
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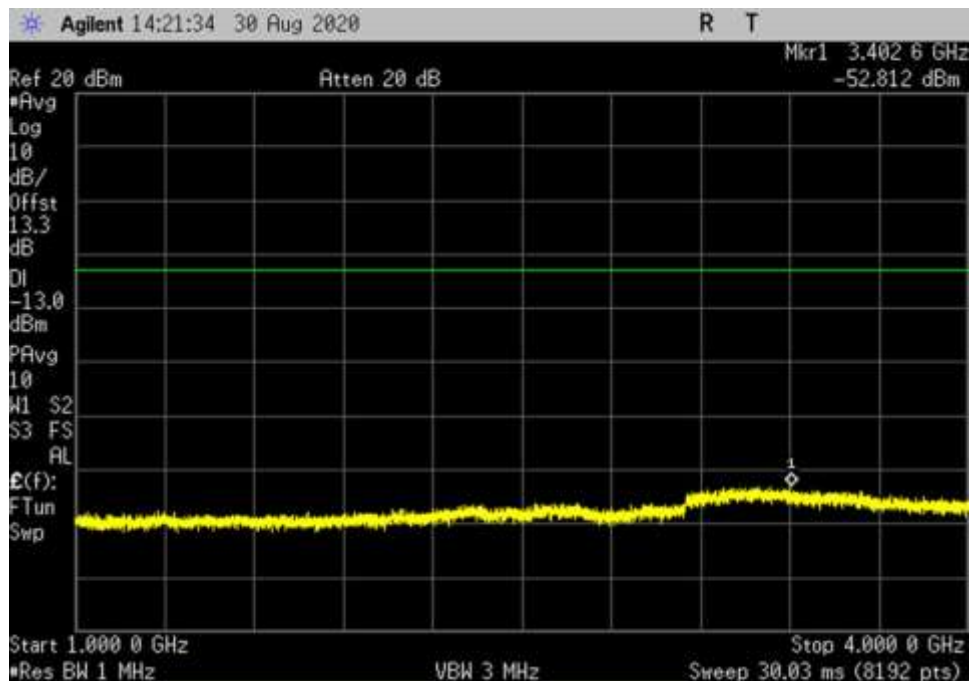
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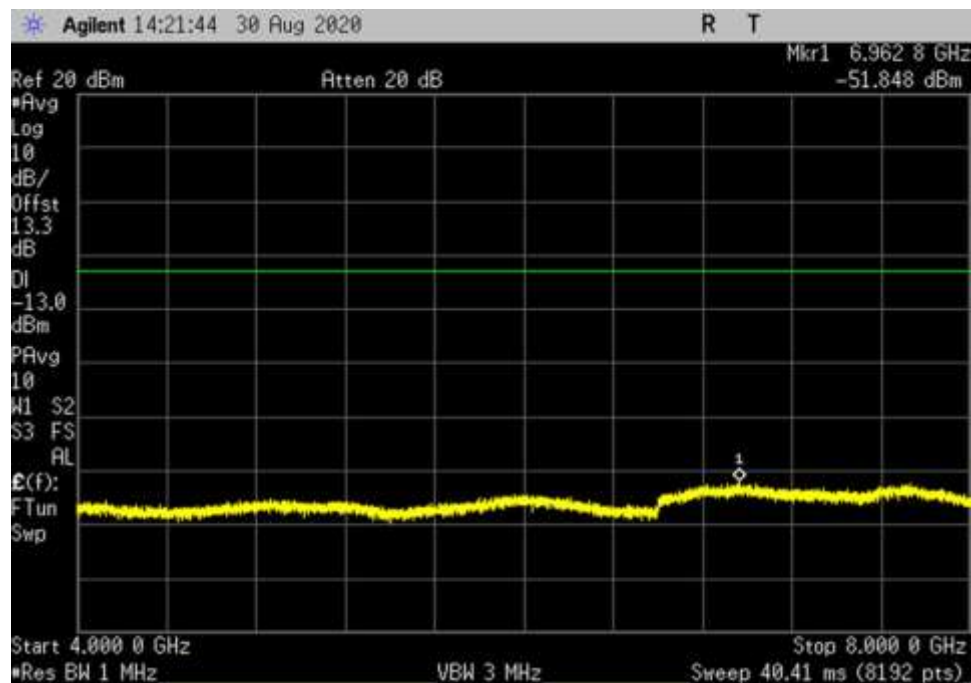
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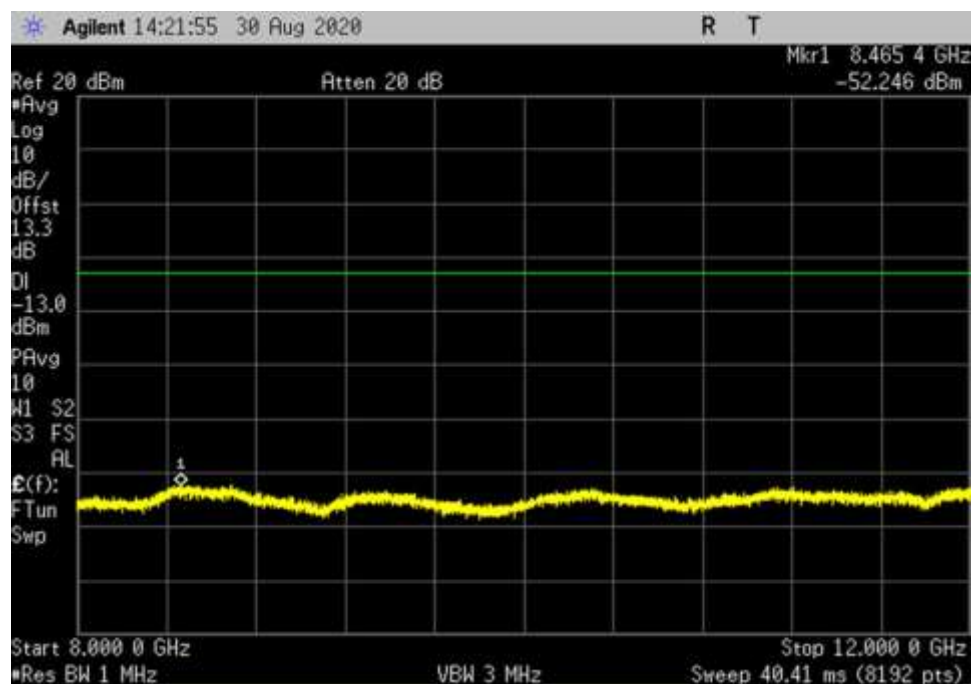
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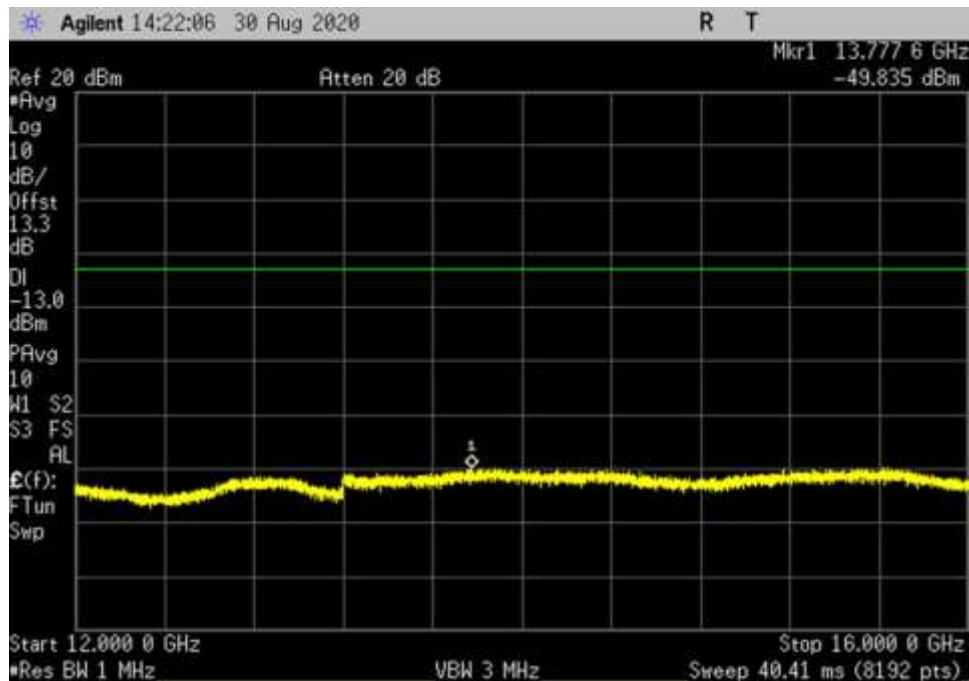
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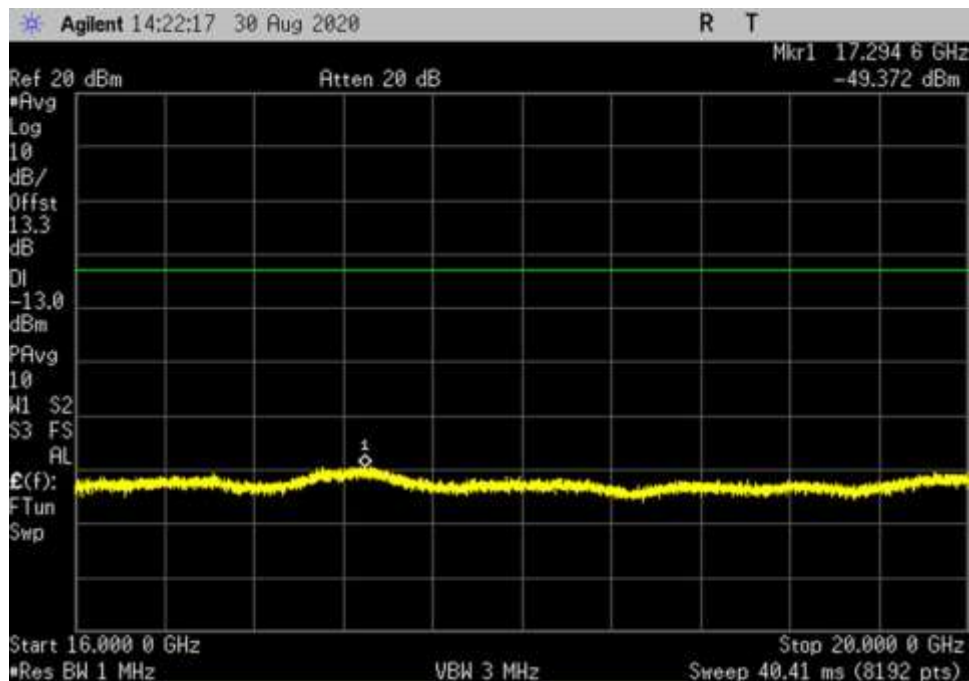
DL_H_16QAM_100MHz_RB1_CP_ 4000- 8000MHz_fo



DL_H_16QAM_100MHz_RB1_CP_ 8000- 12000MHz_fo



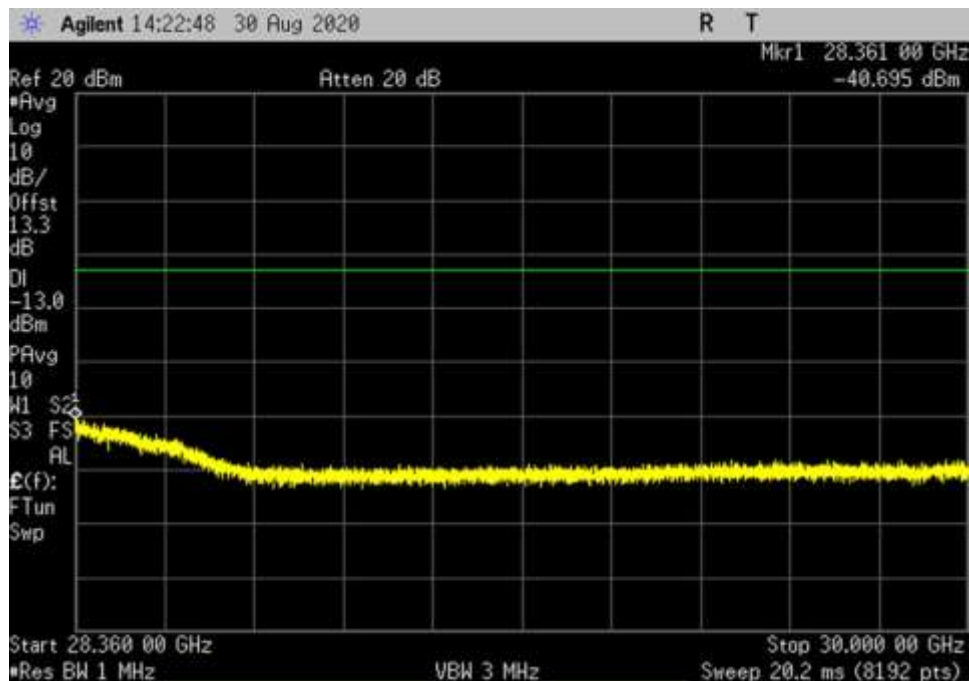
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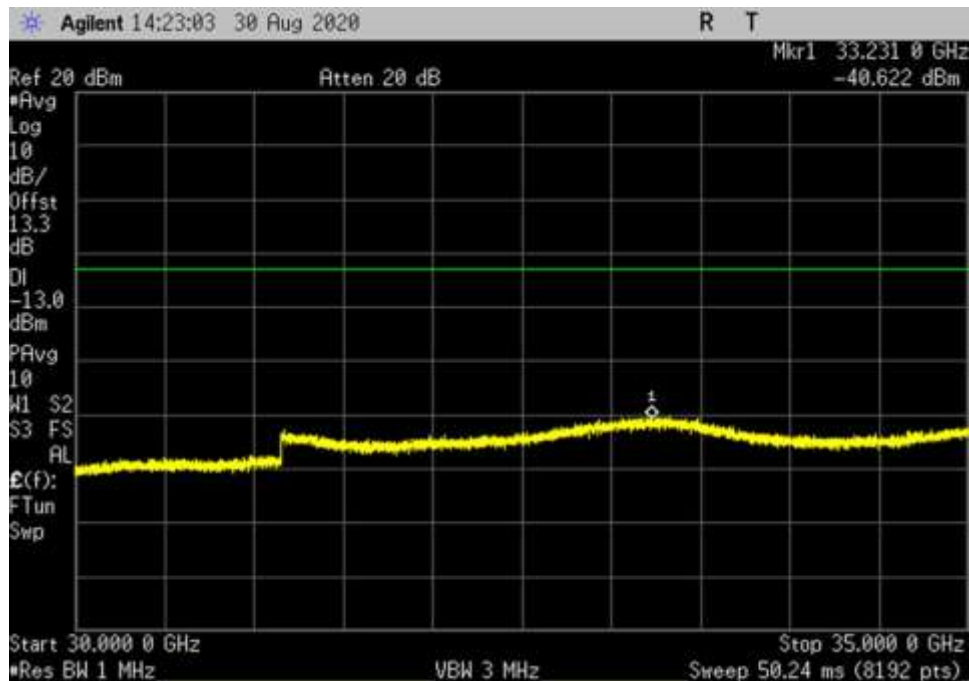
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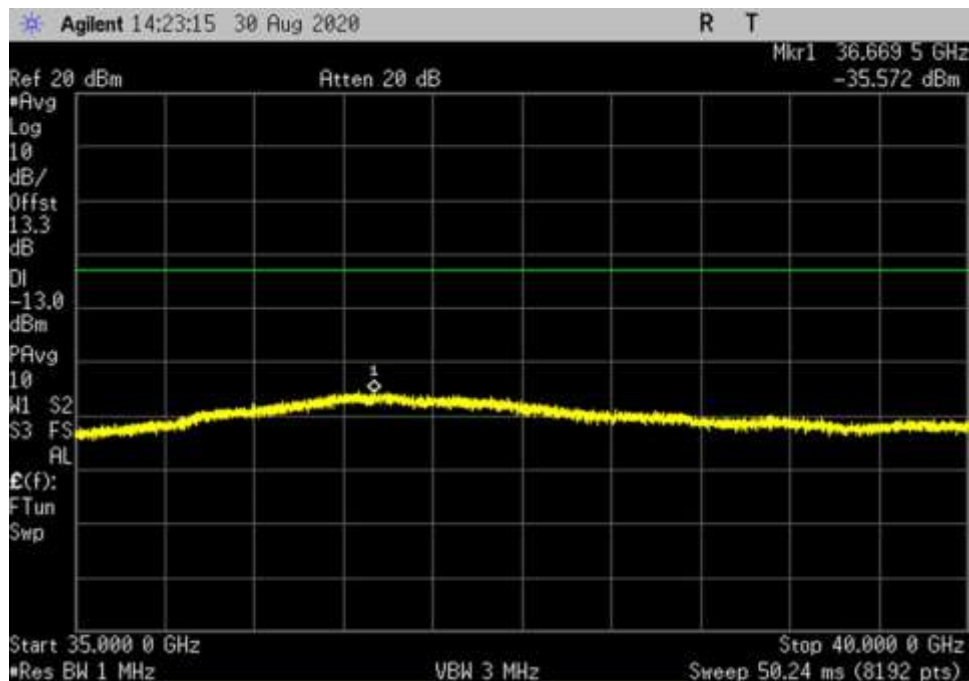
DL_H_16QAM_100MHz_RB1_CP_20000-27490MHz_fo



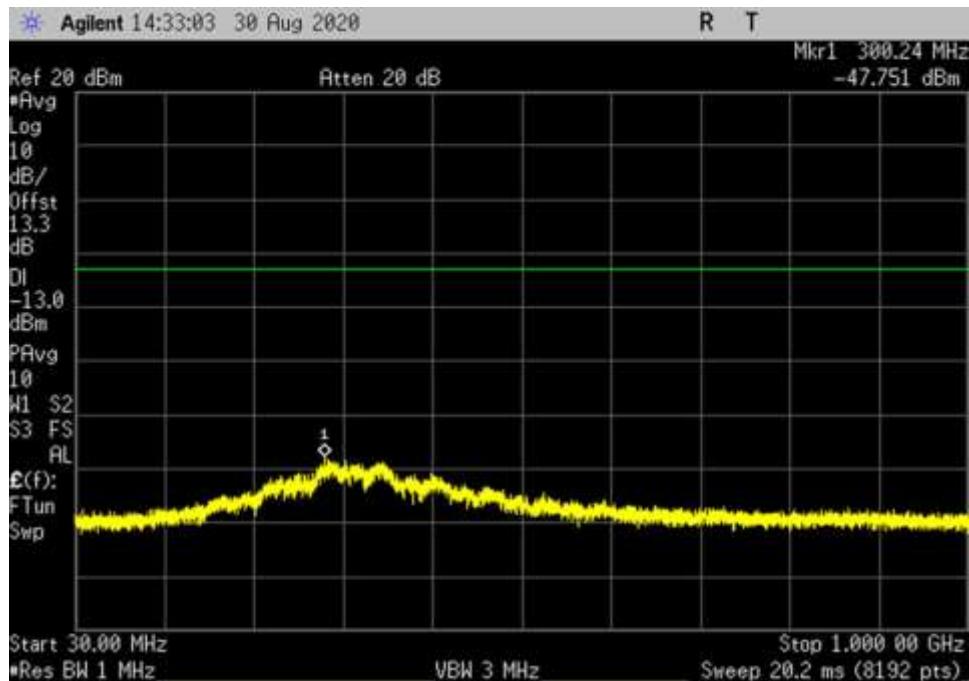
DL_H_16QAM_100MHz_RB1_CP_28360-30000MHz_fo



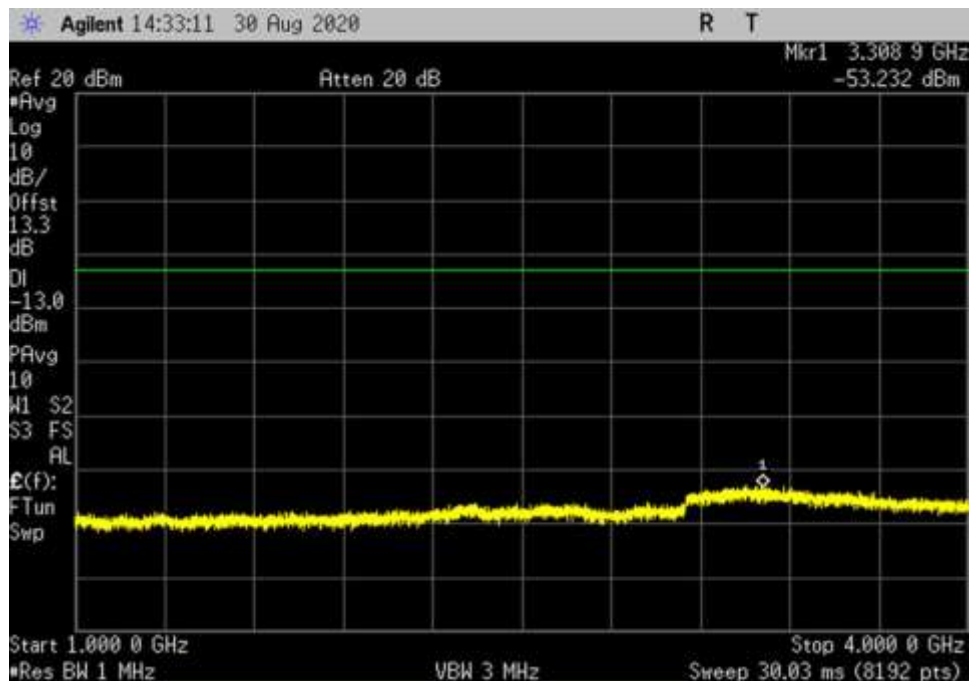
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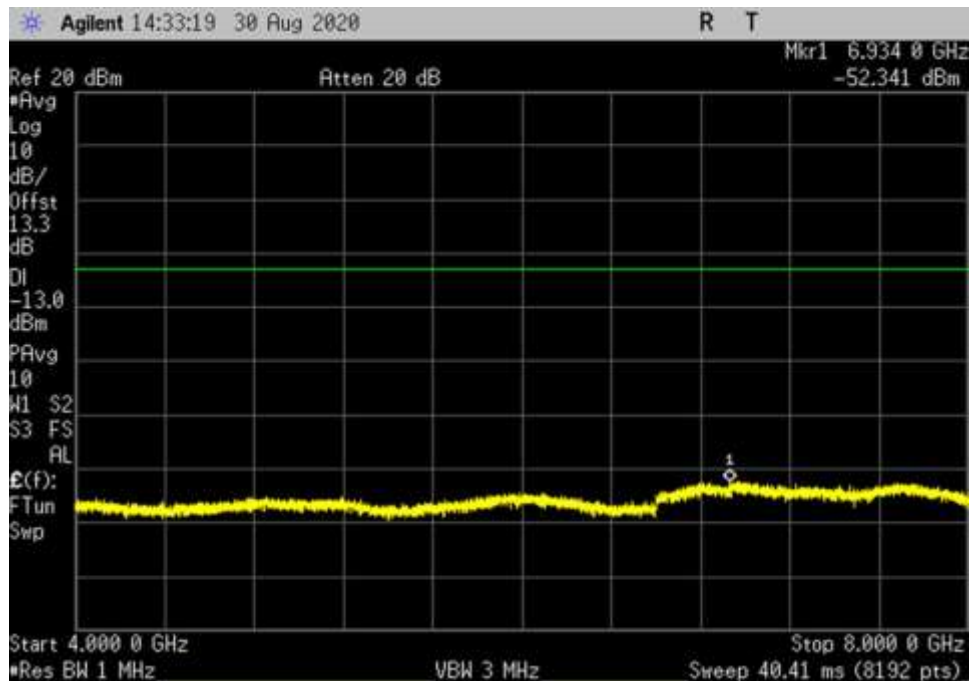
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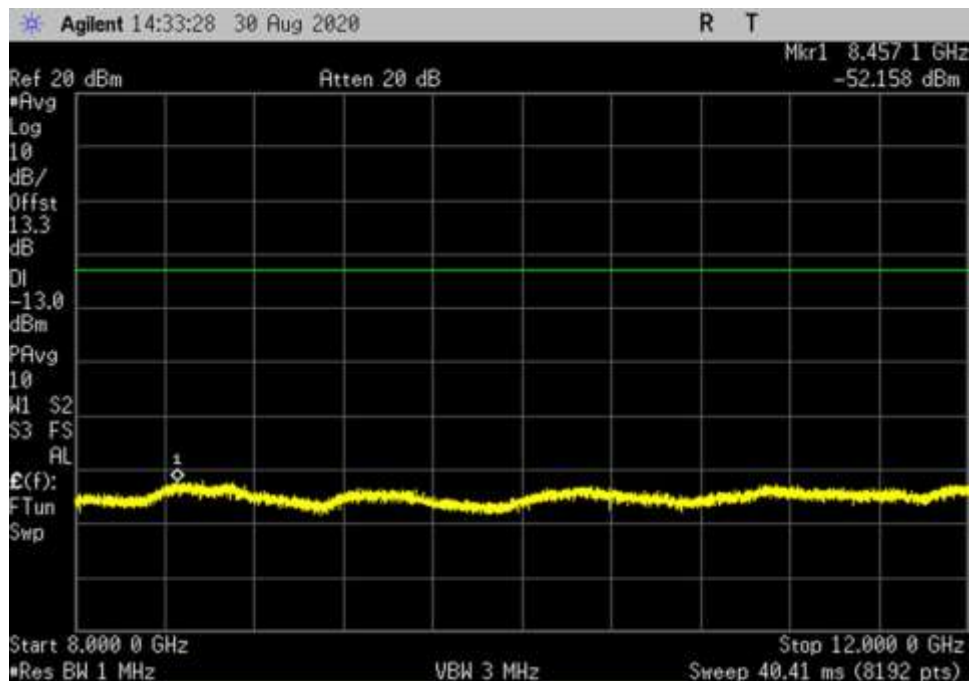
DL_H_16QAM_400MHz_Full_CP_30-1000MHz_fo



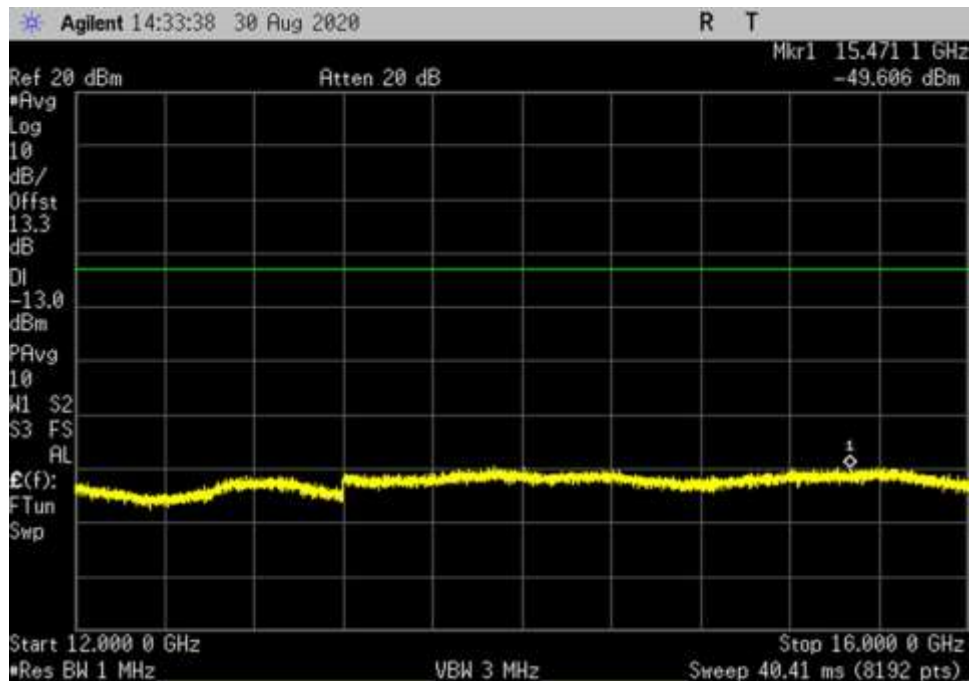
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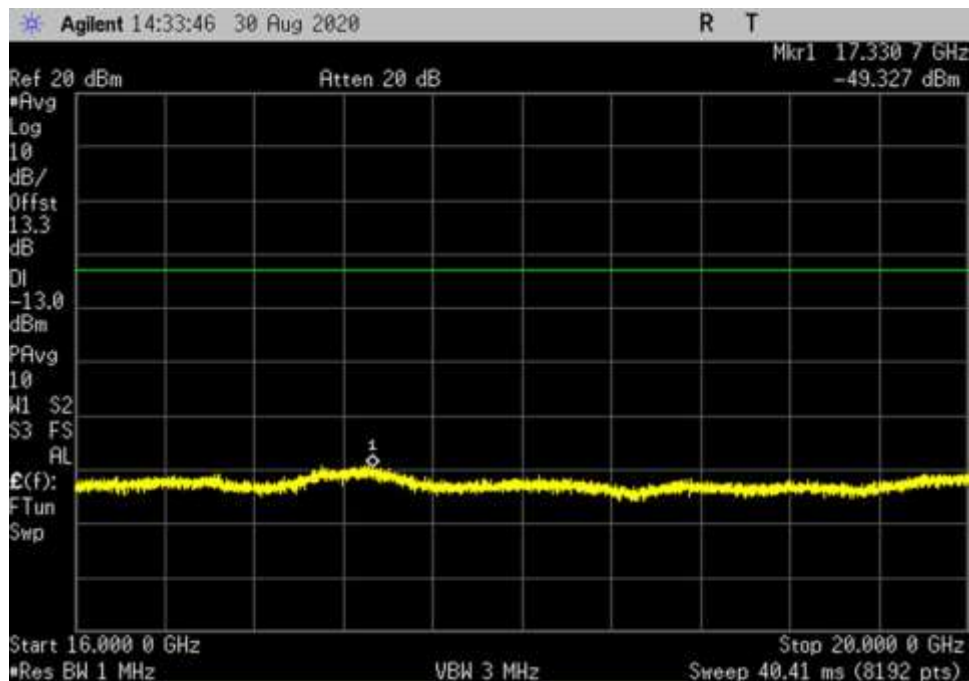
DL_H_16QAM_400MHz_Full_CP_4000- 8000MHz_fo



DL_H_16QAM_400MHz_Full_CP_8000- 12000MHz_fo



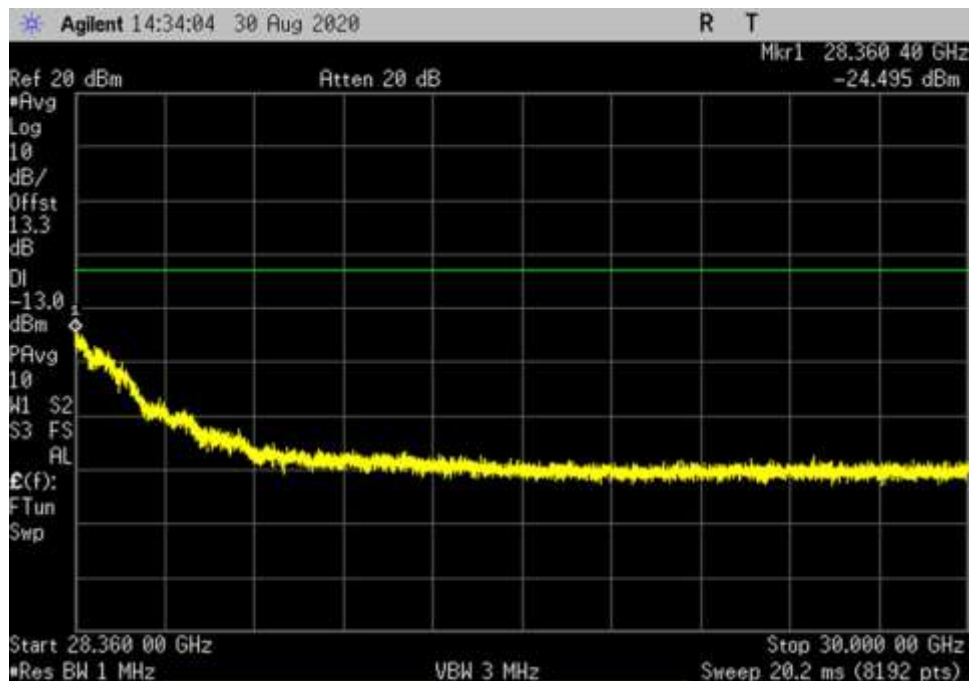
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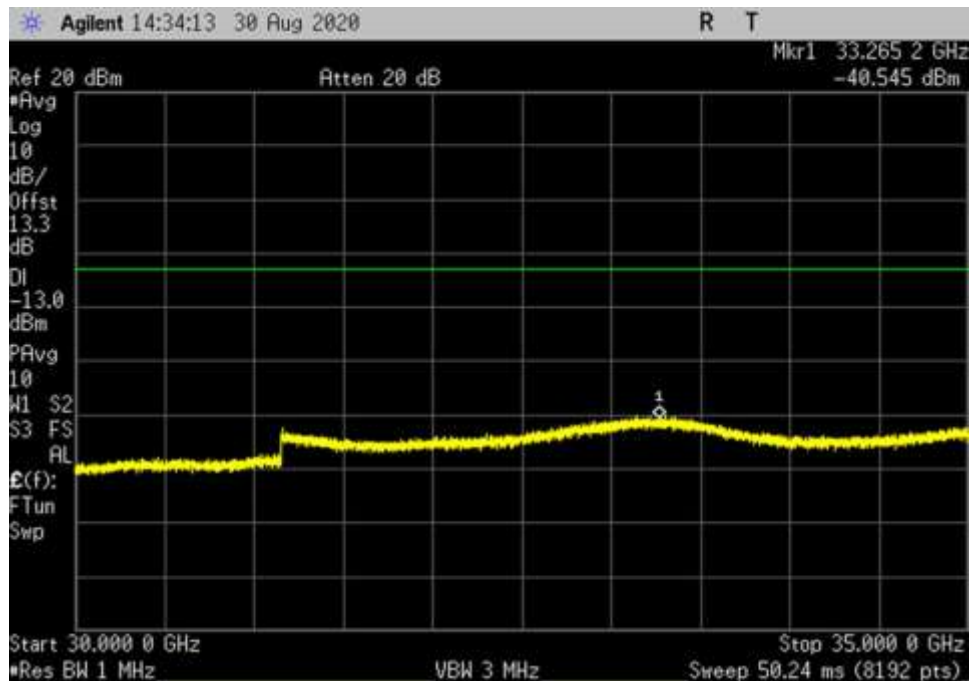
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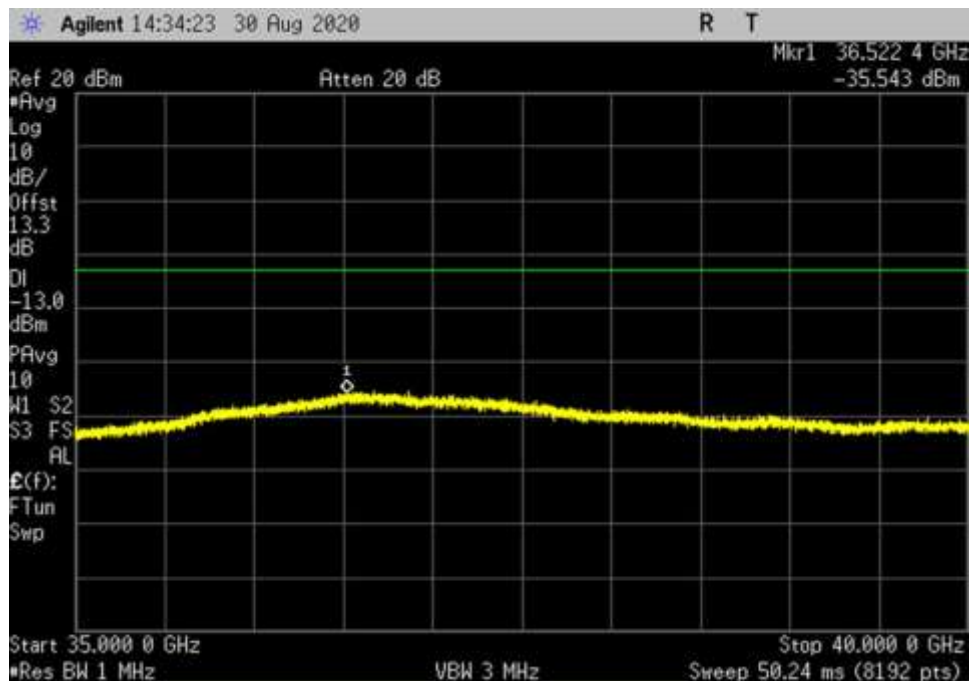
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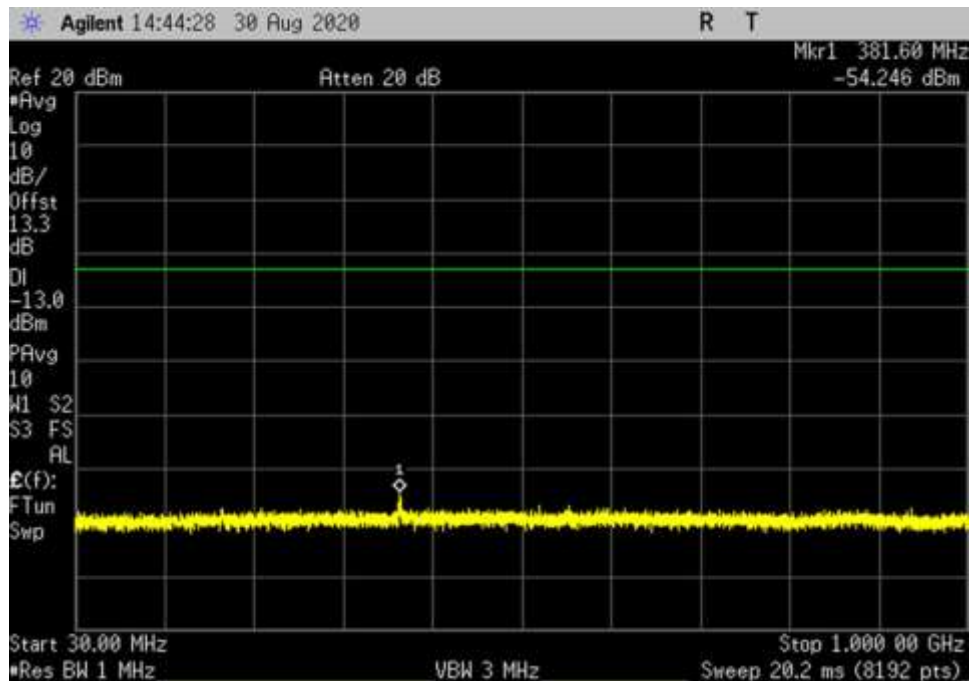
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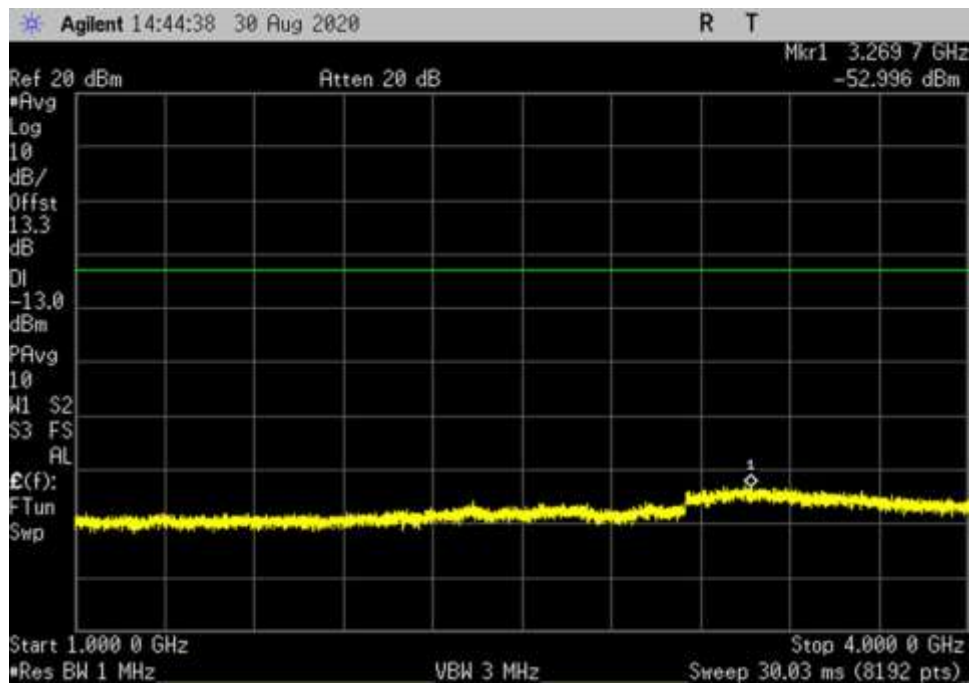
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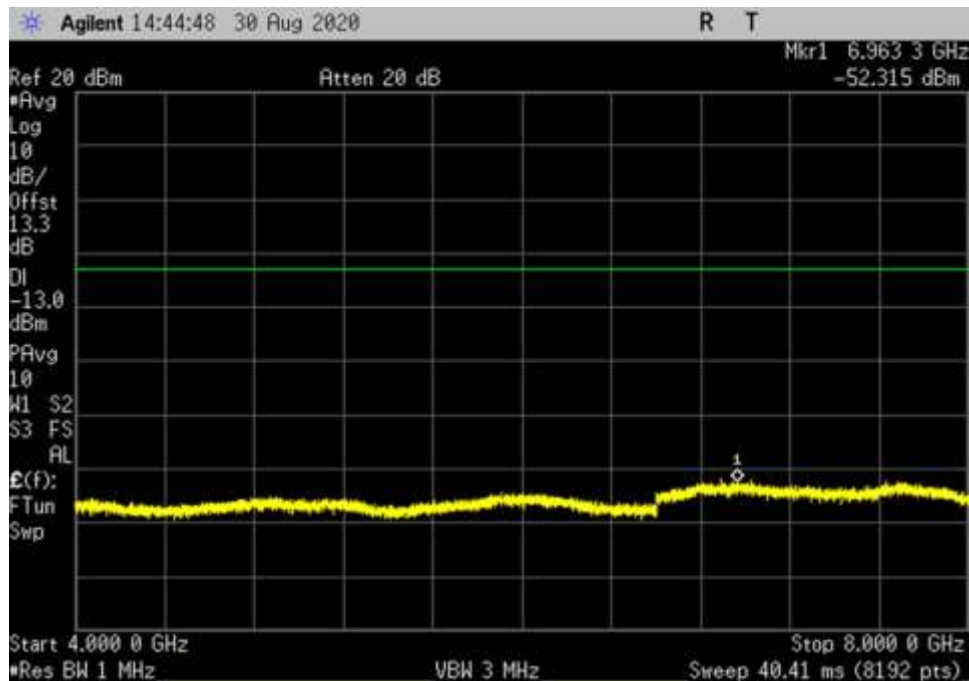
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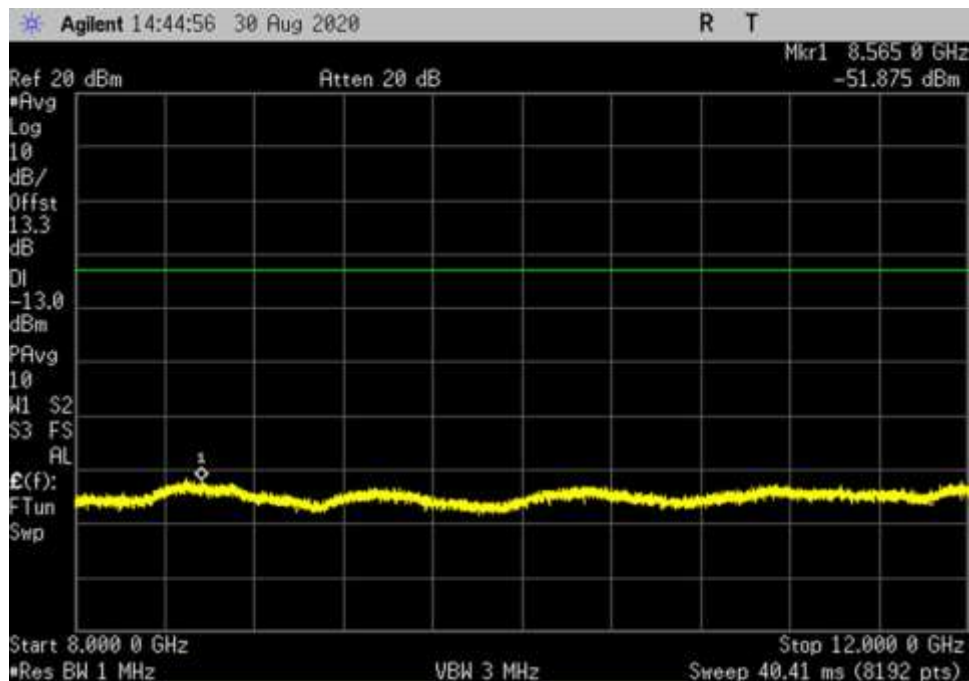
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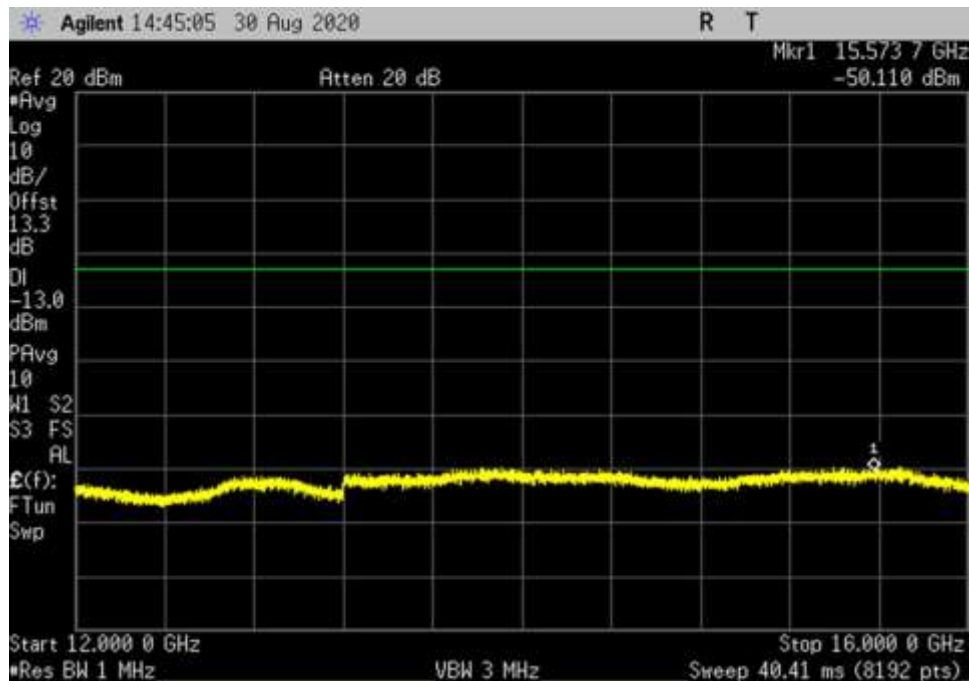
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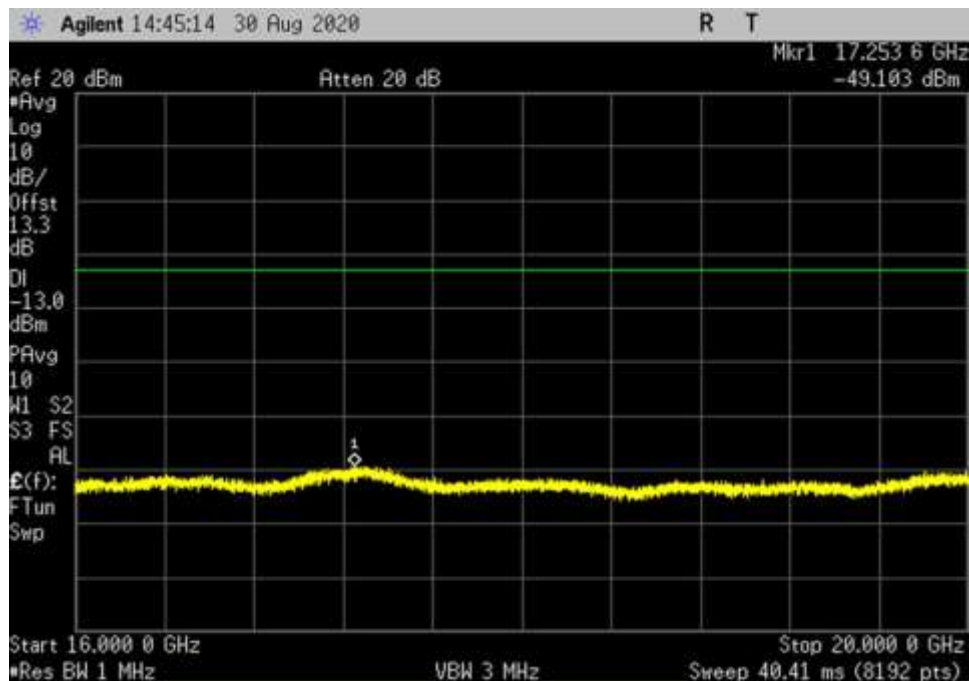
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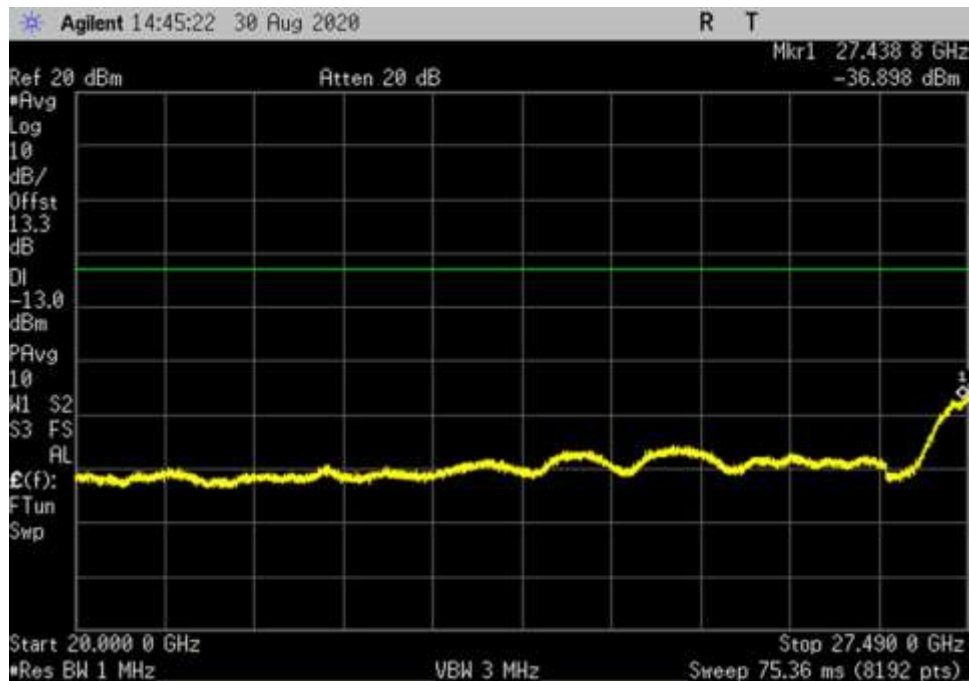
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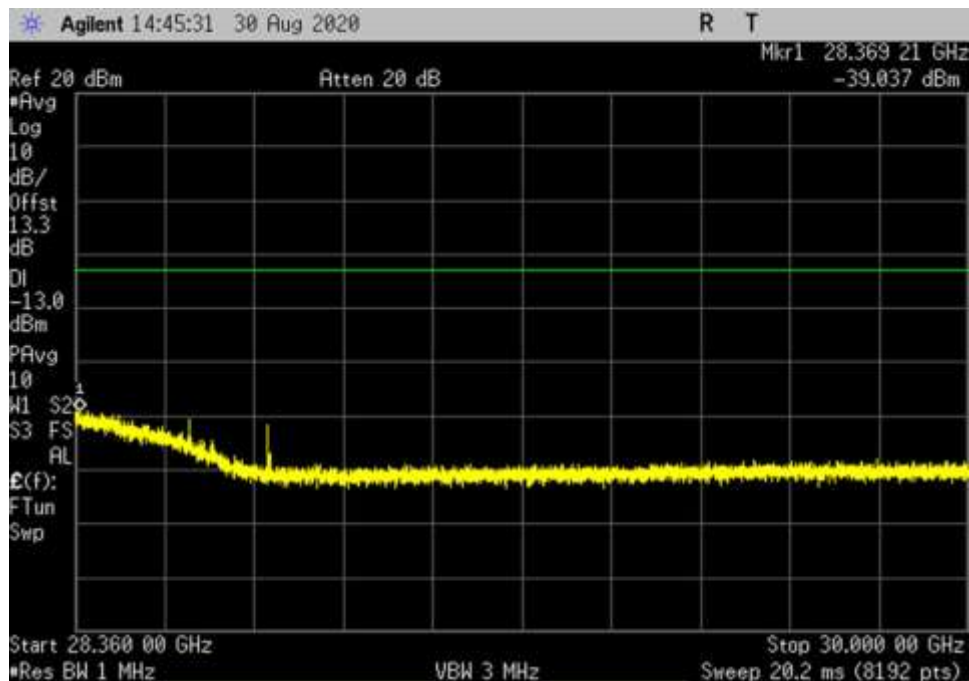
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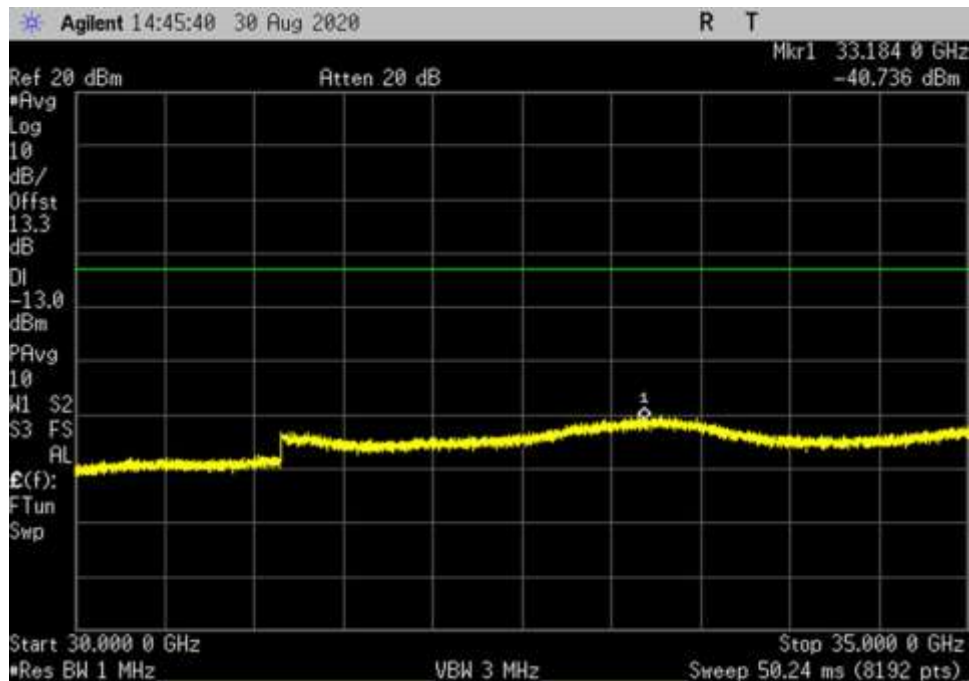
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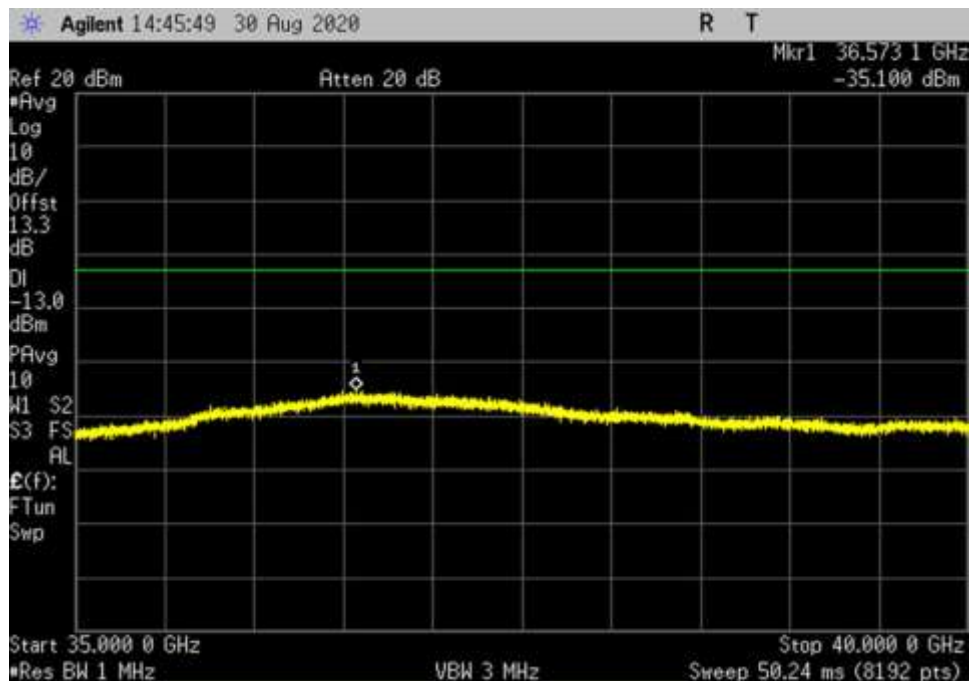
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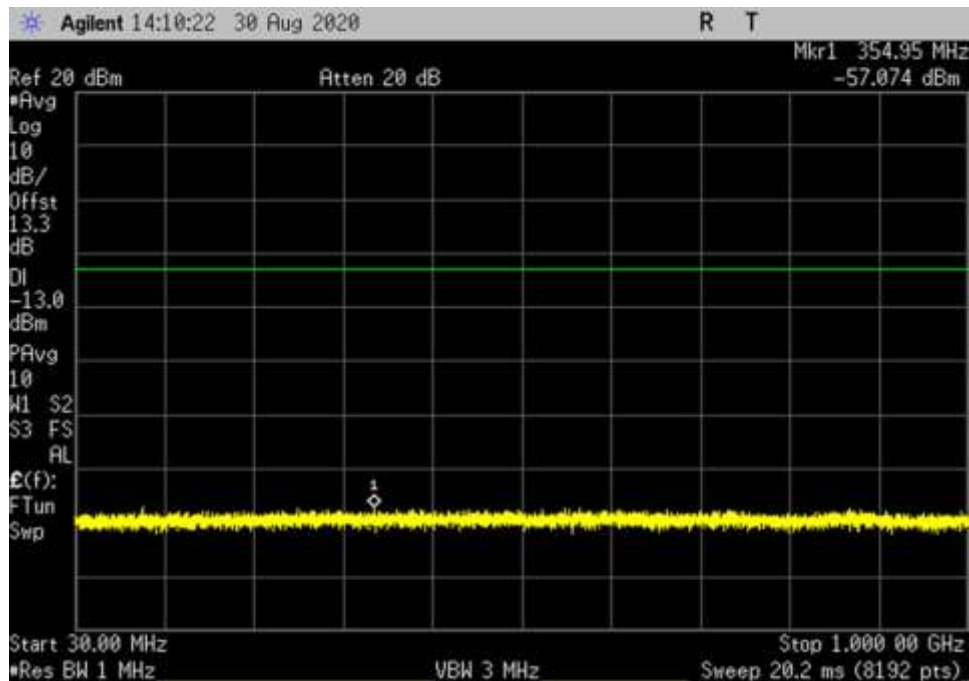
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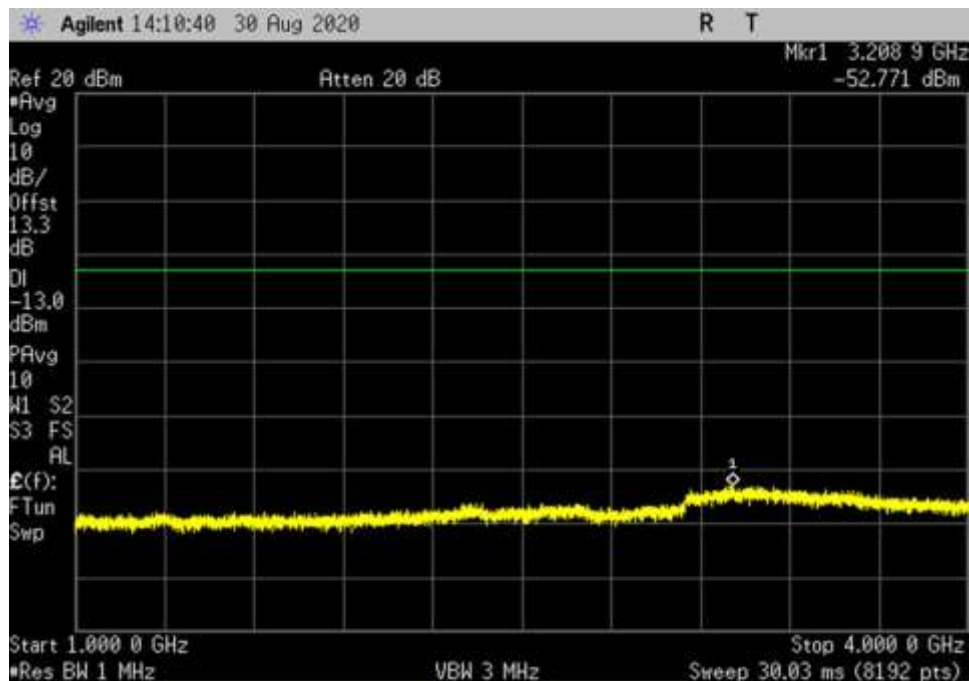
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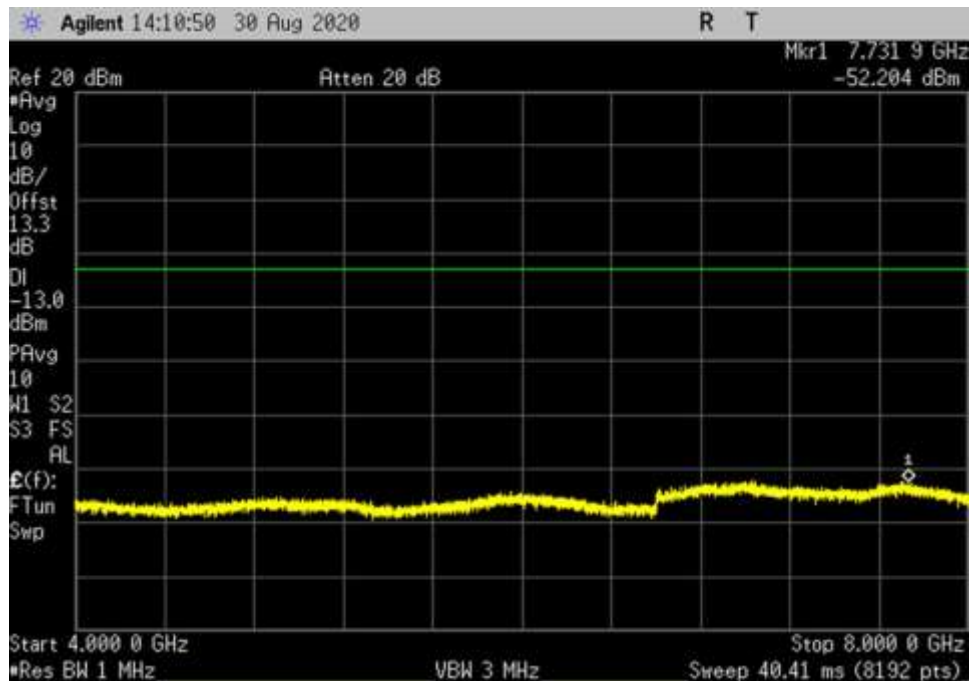
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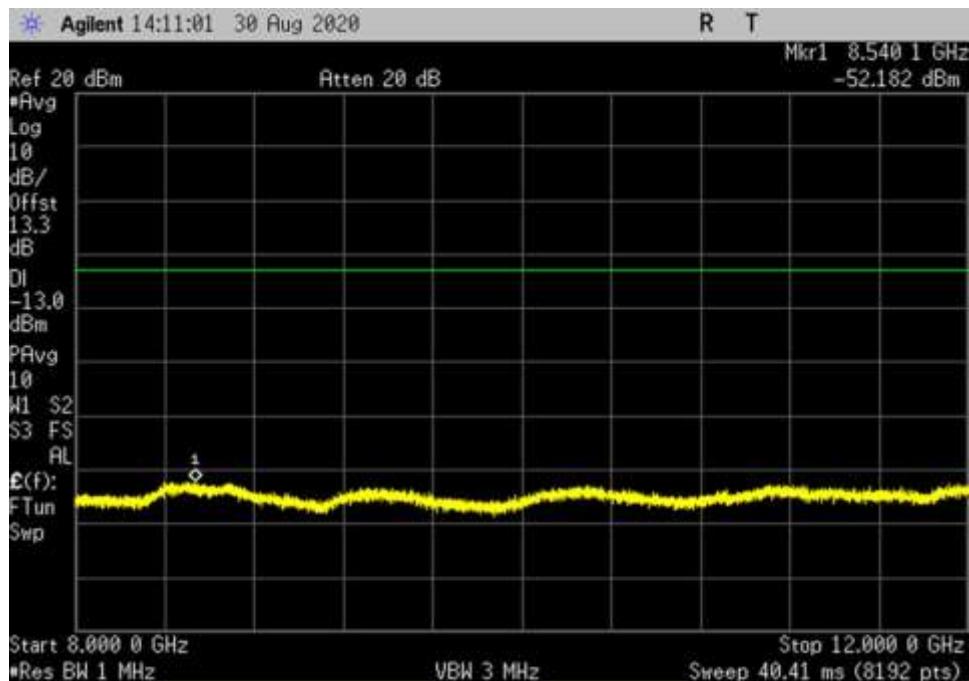
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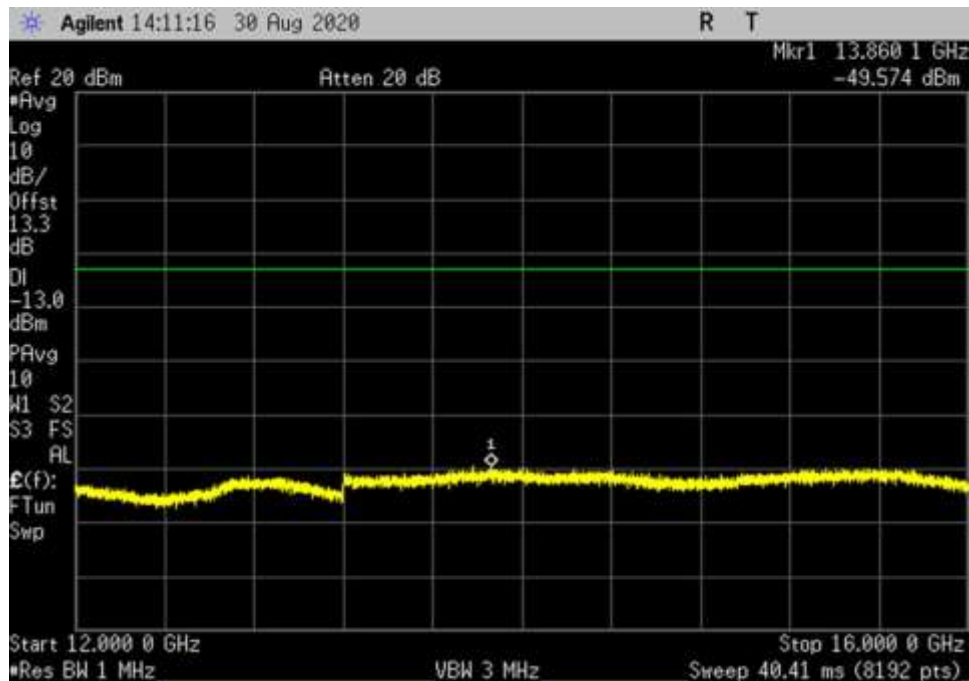
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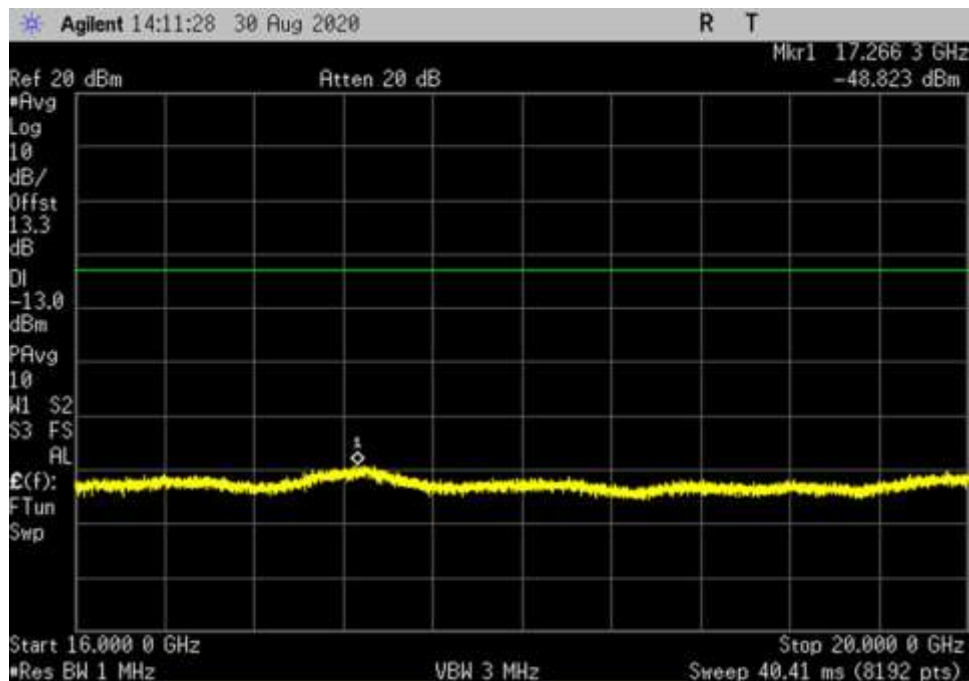
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DL_H_64QAM_100MHz_Full_CP_8000-12000MHz_fo



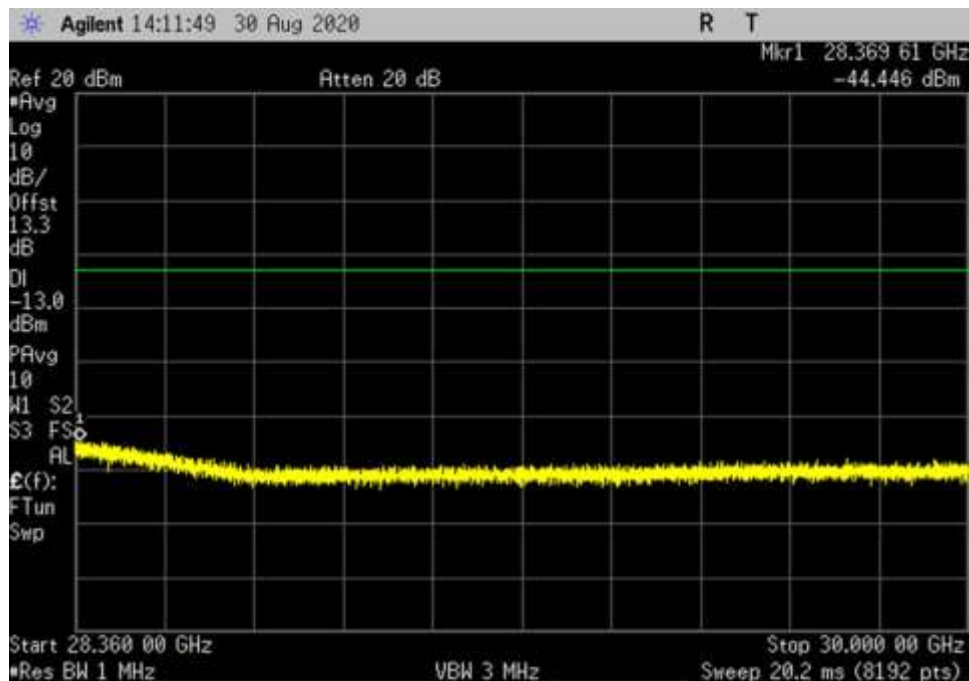
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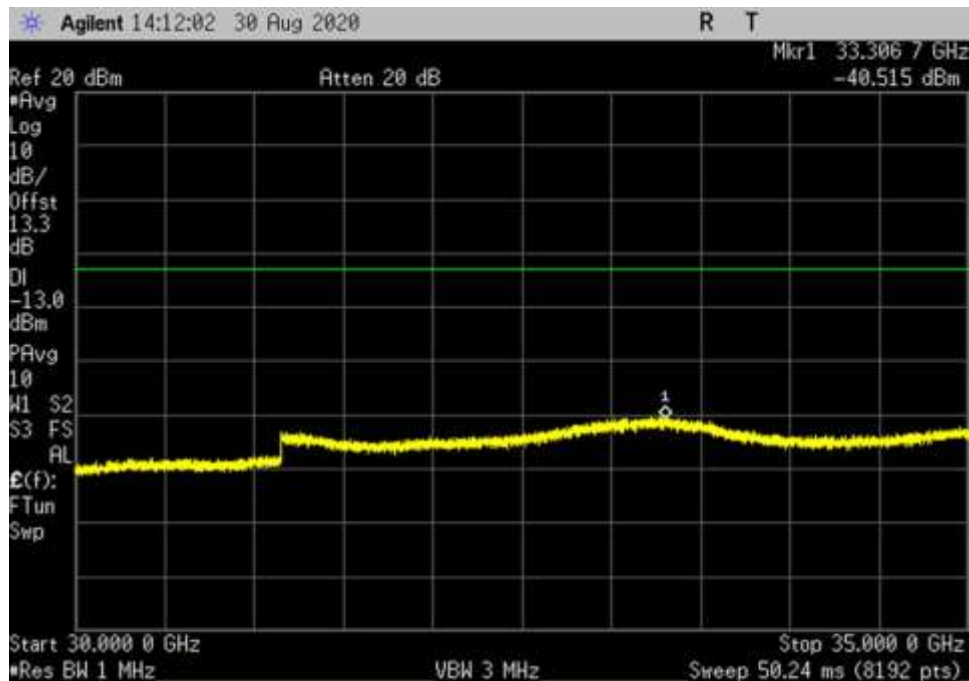
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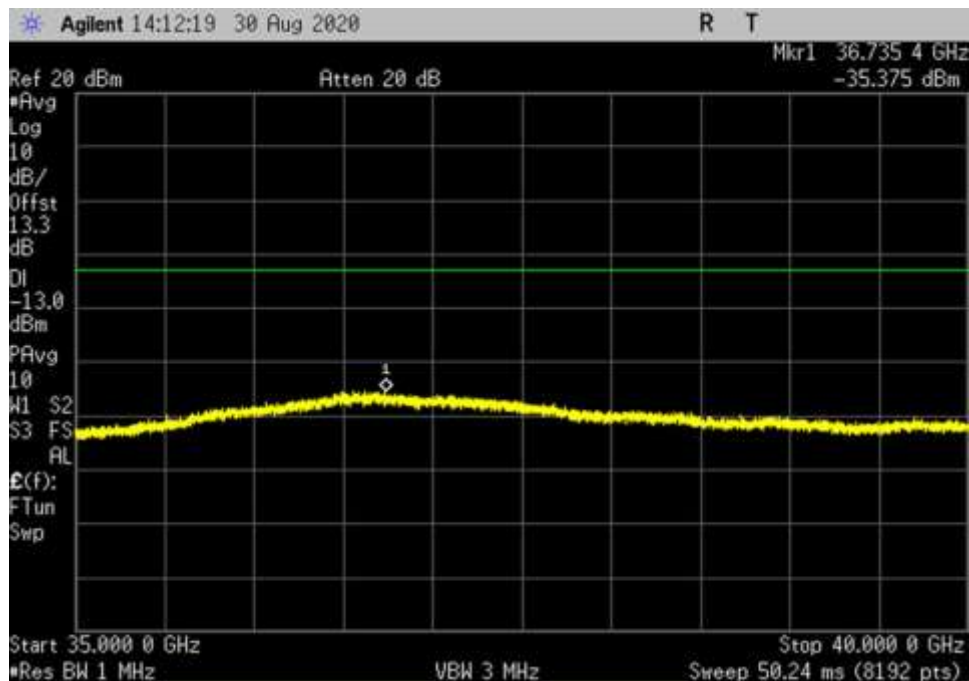
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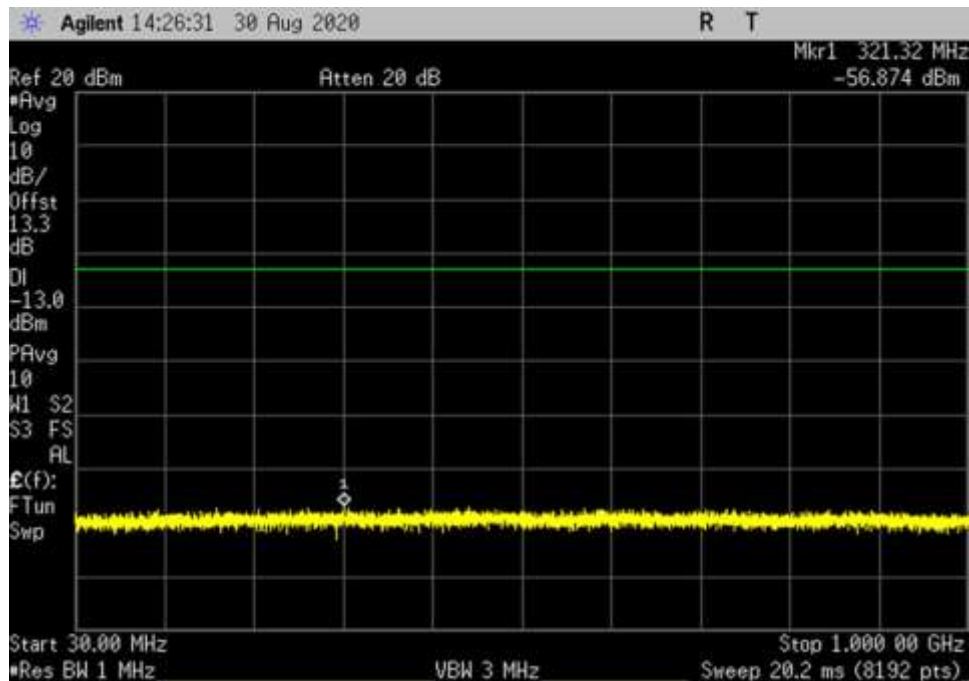
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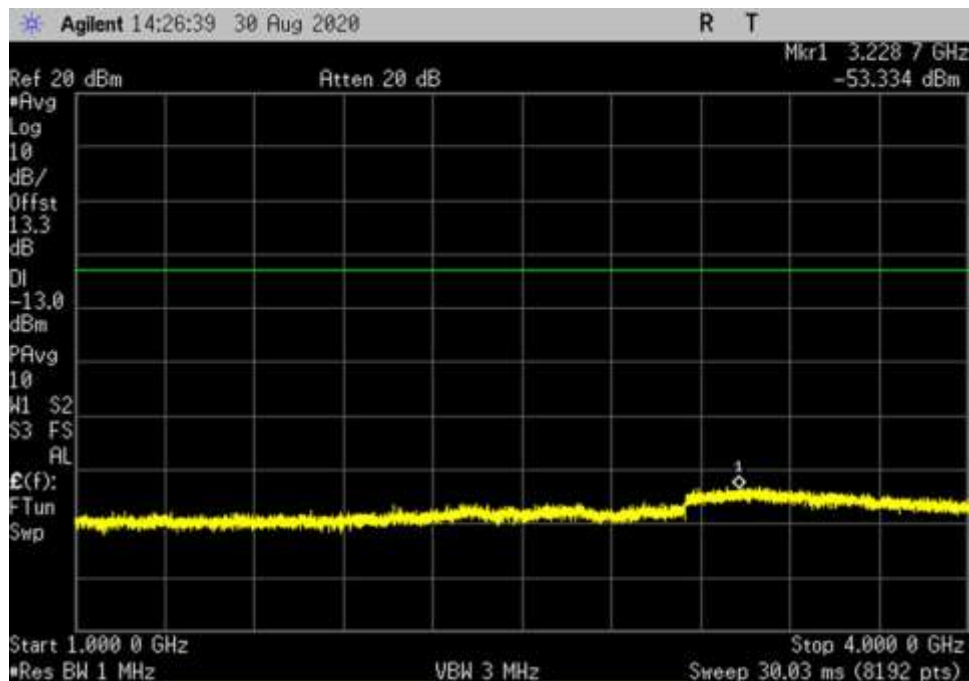
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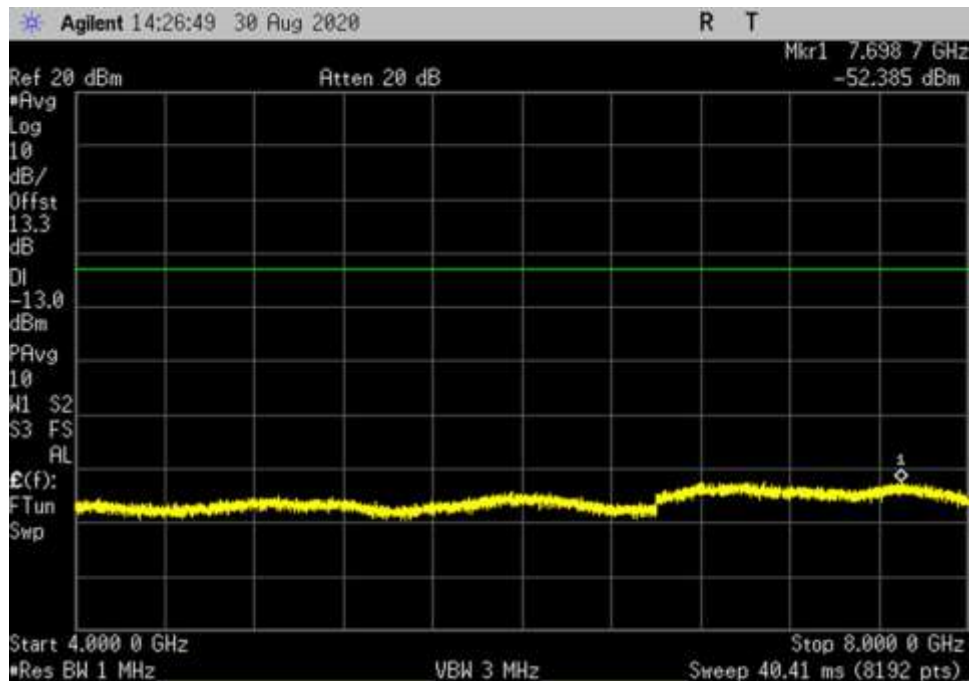
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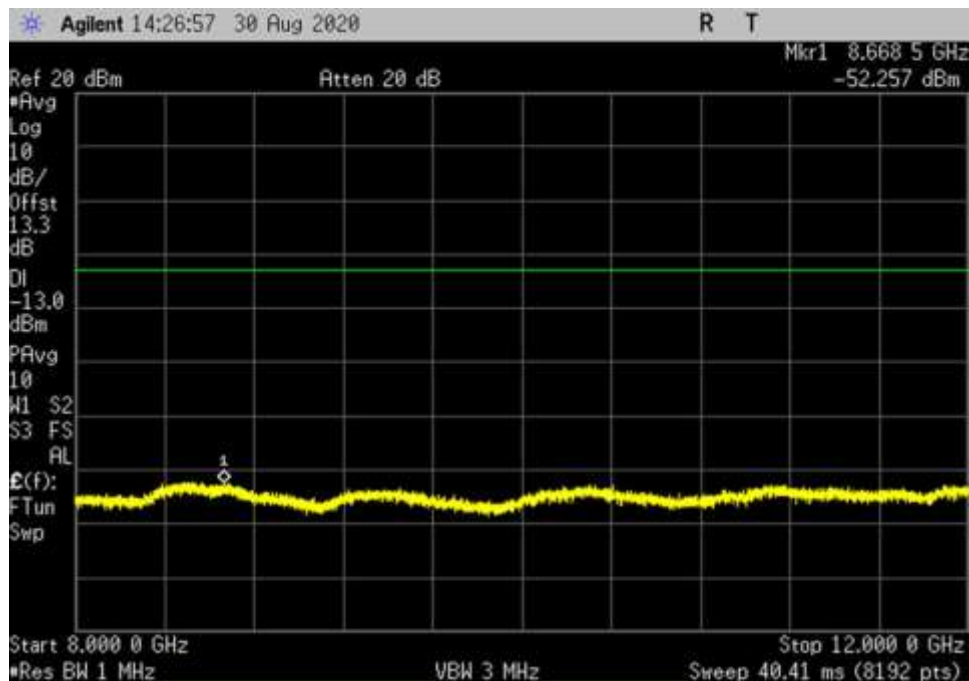
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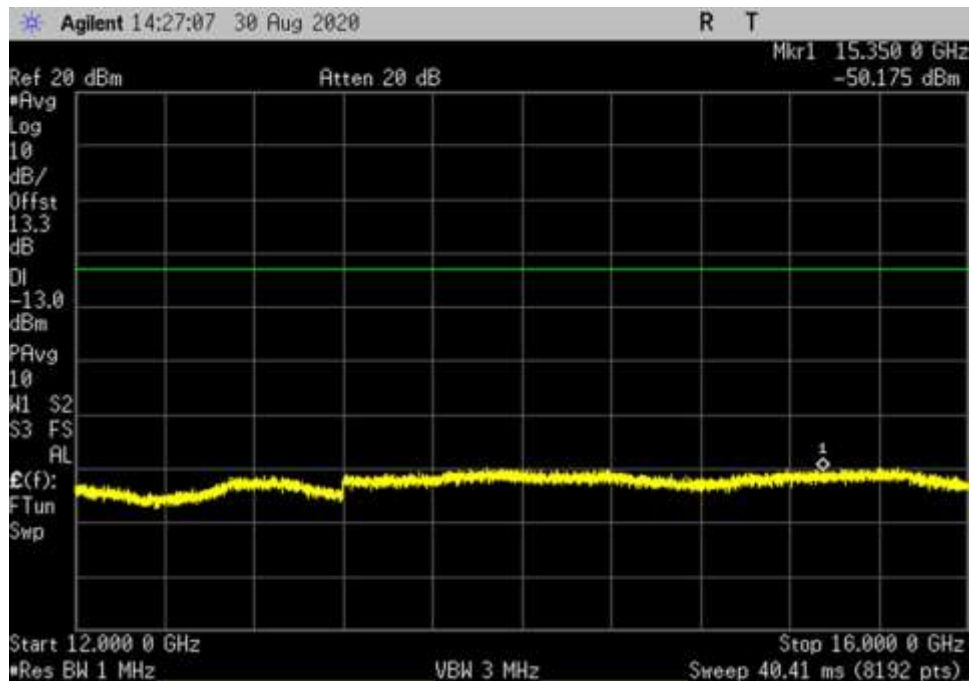
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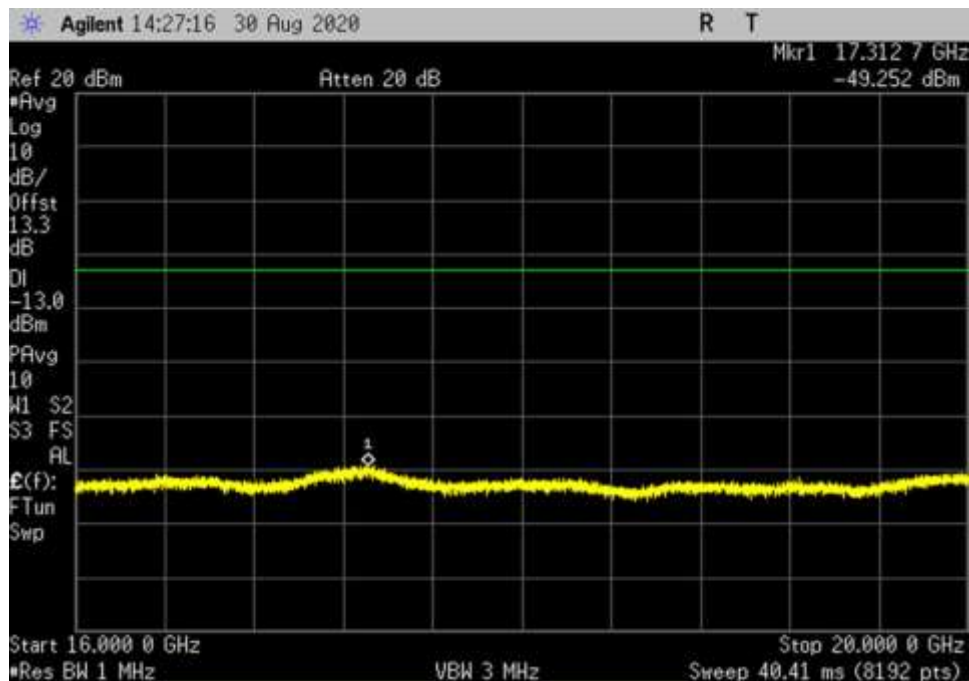
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DL_H_64QAM_100MHz_RB1_CP_ 8000- 12000MHz_fo



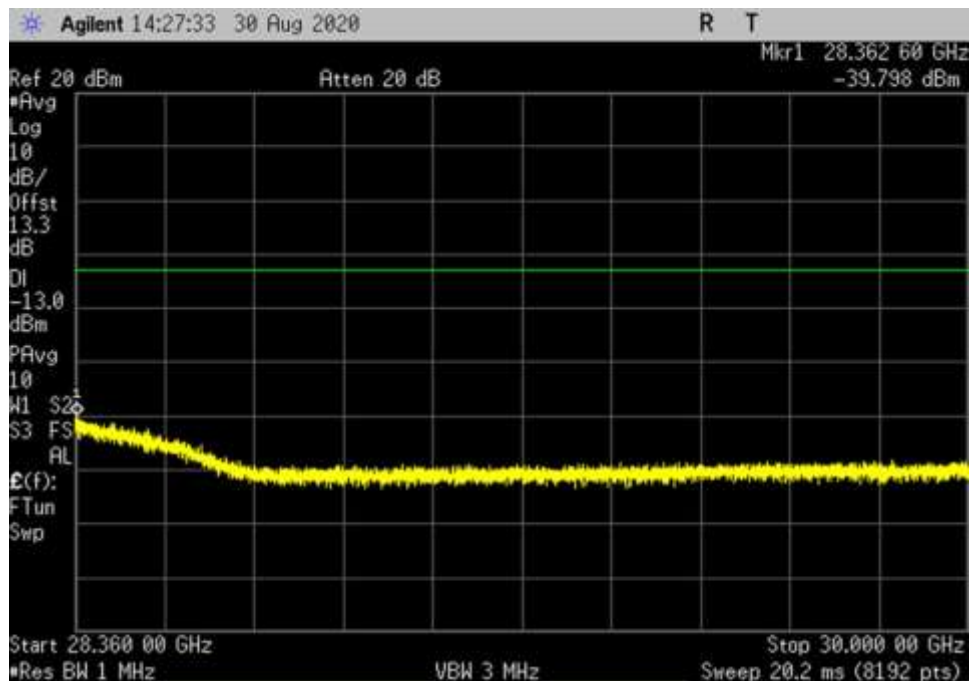
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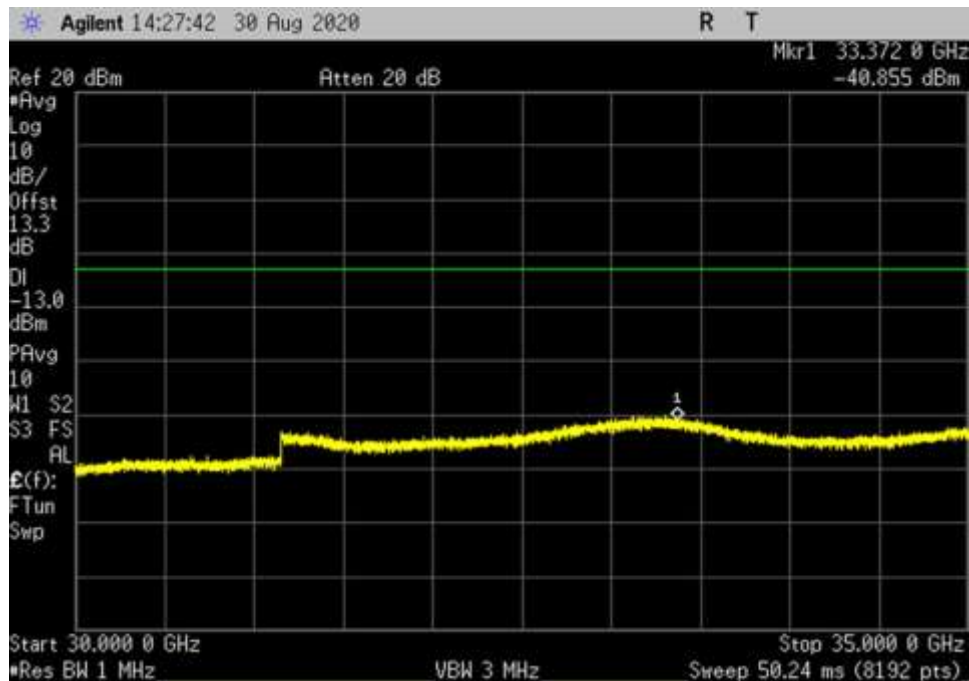
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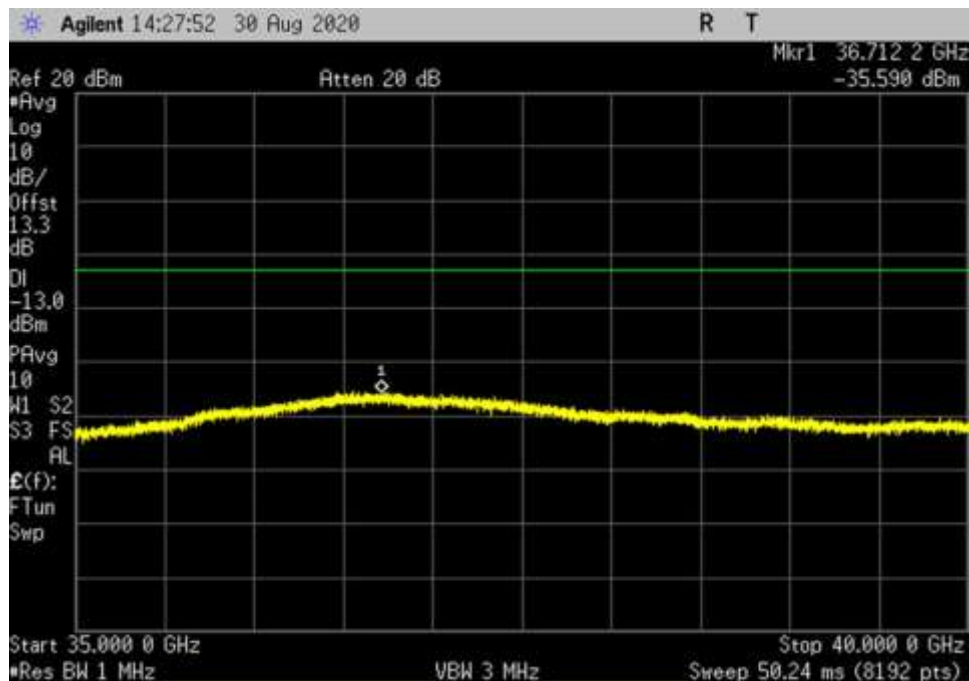
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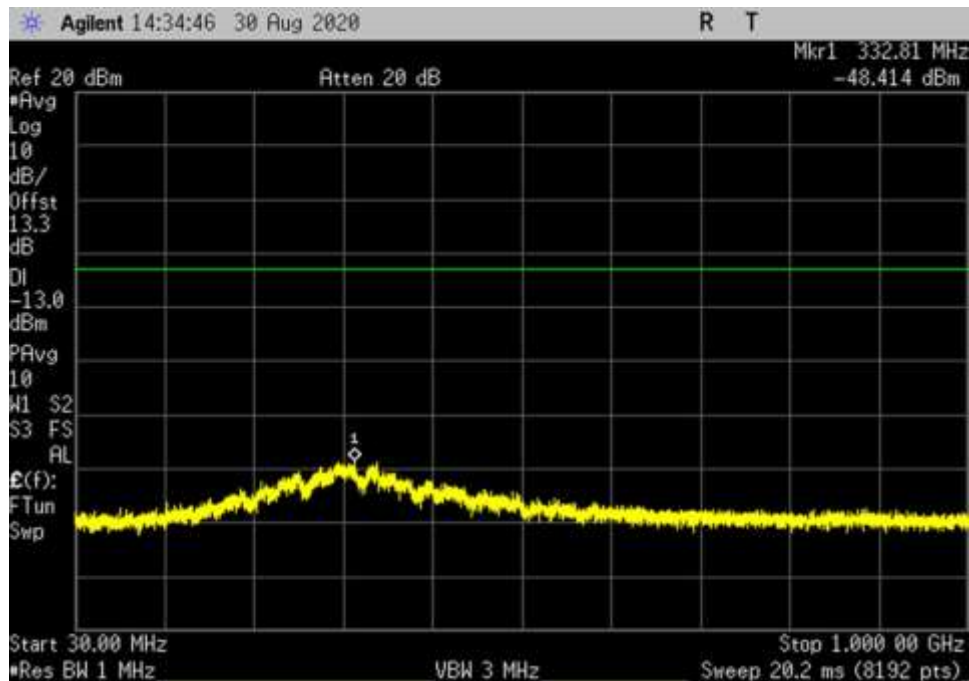
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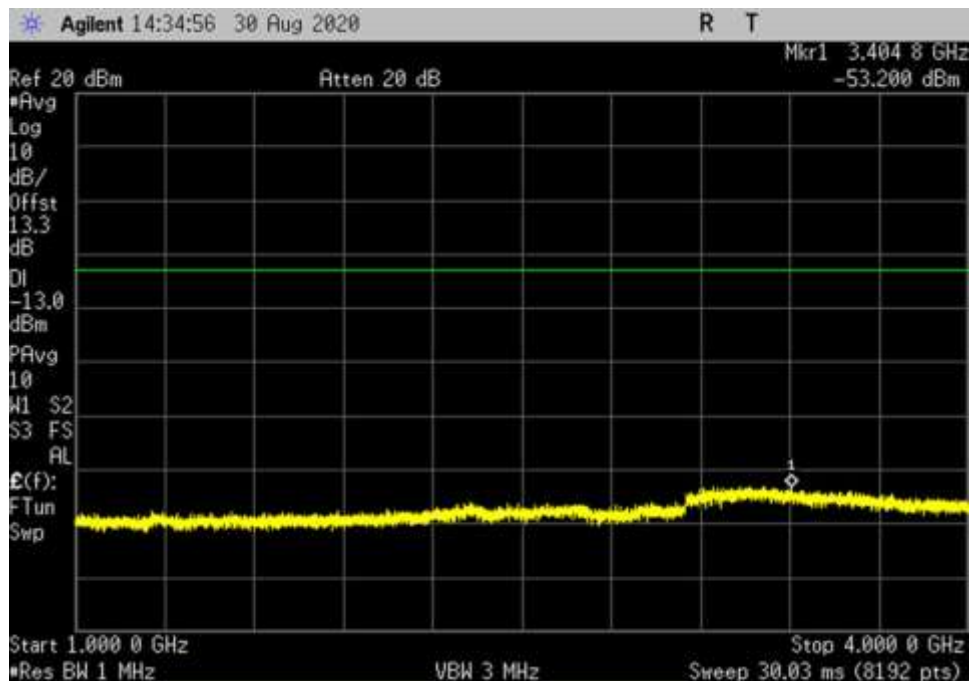
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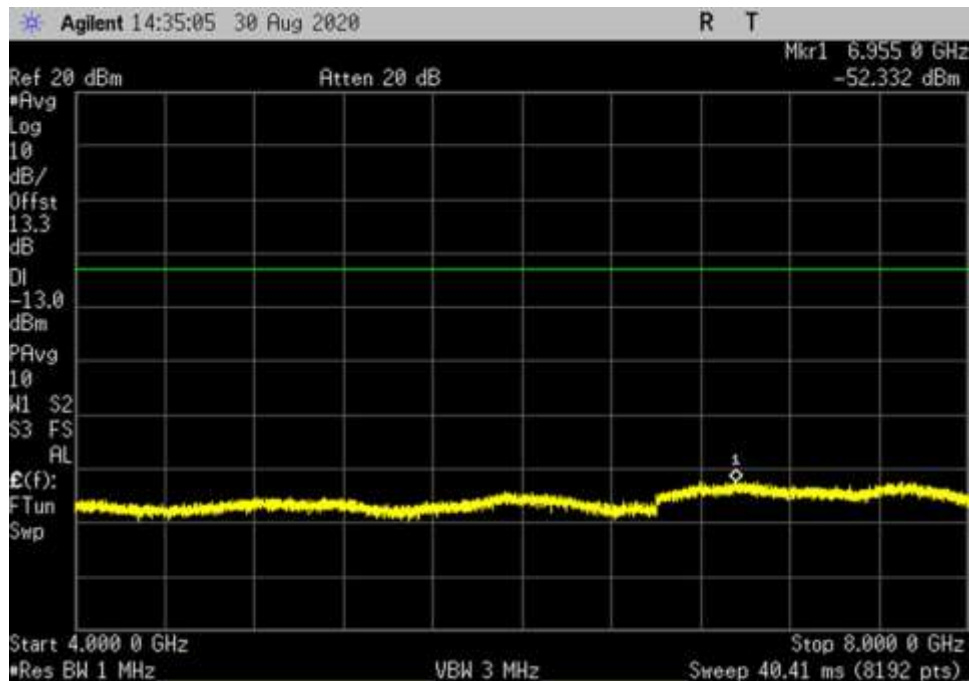
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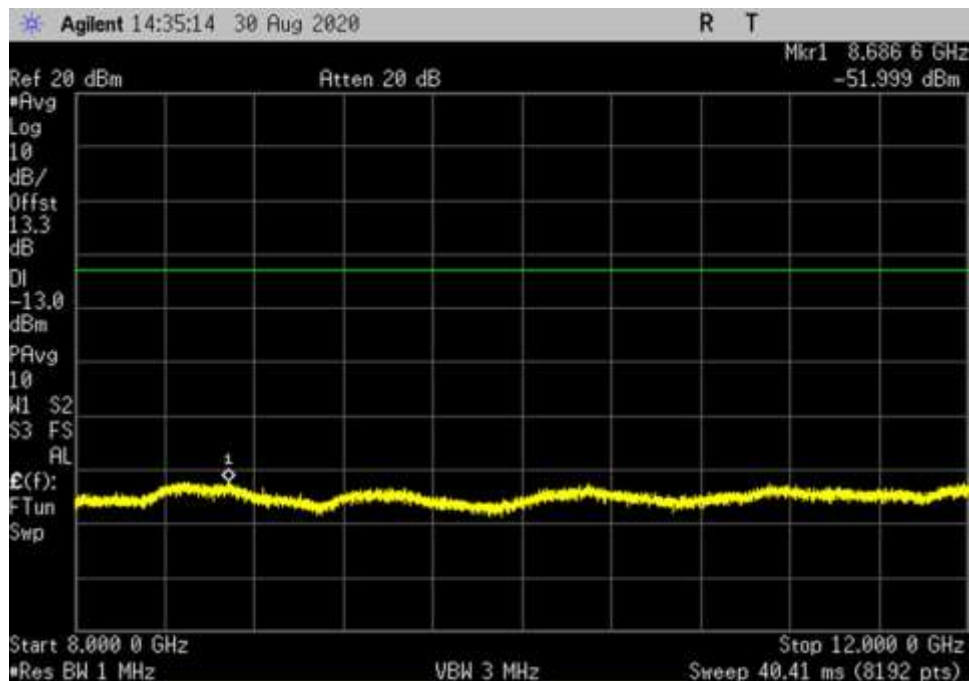
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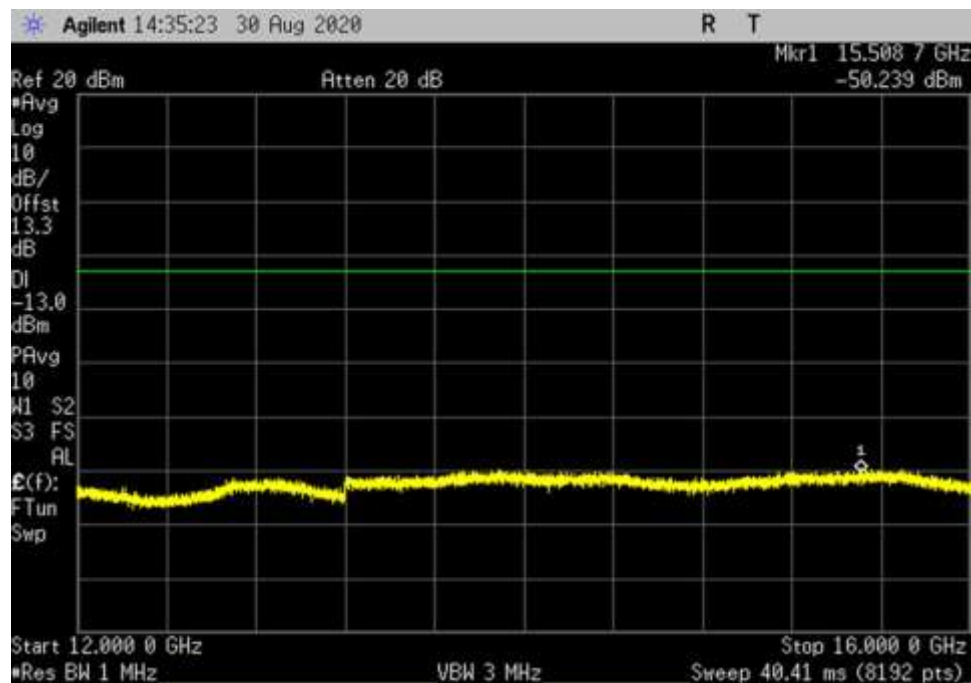
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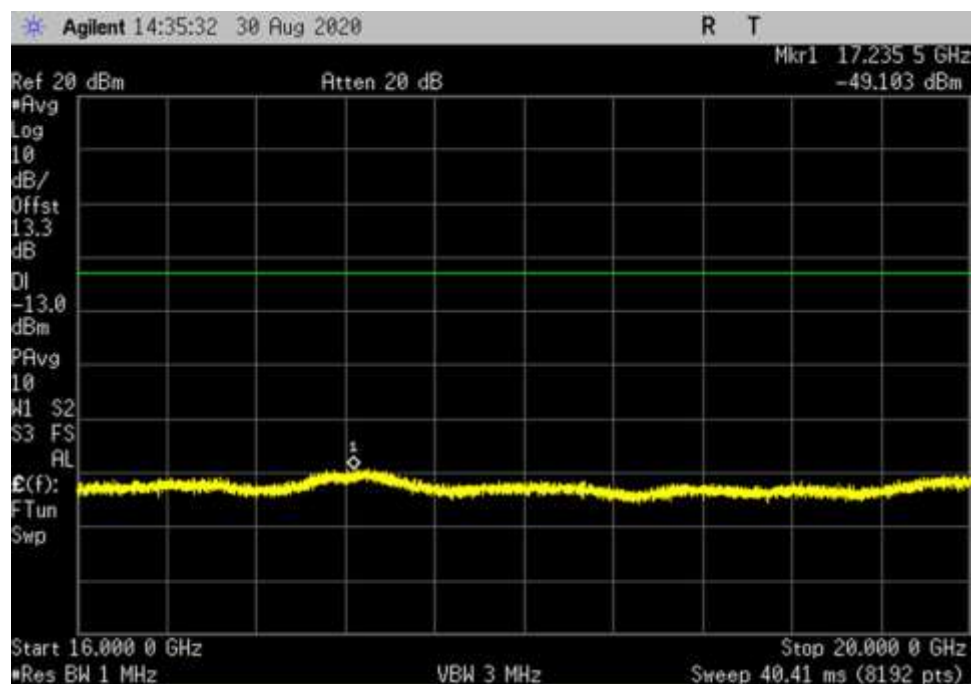
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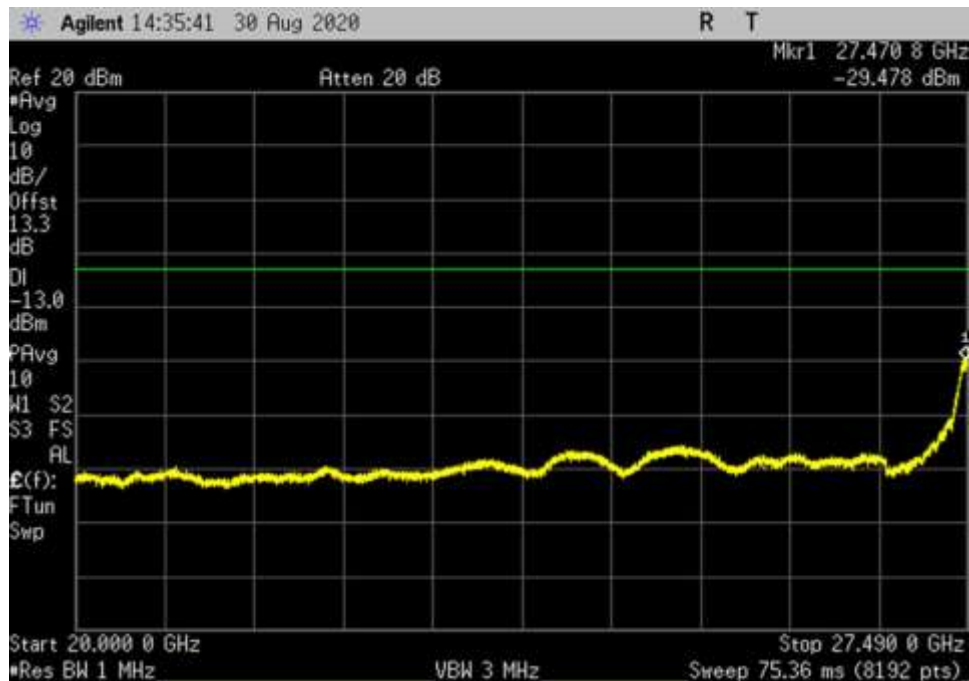
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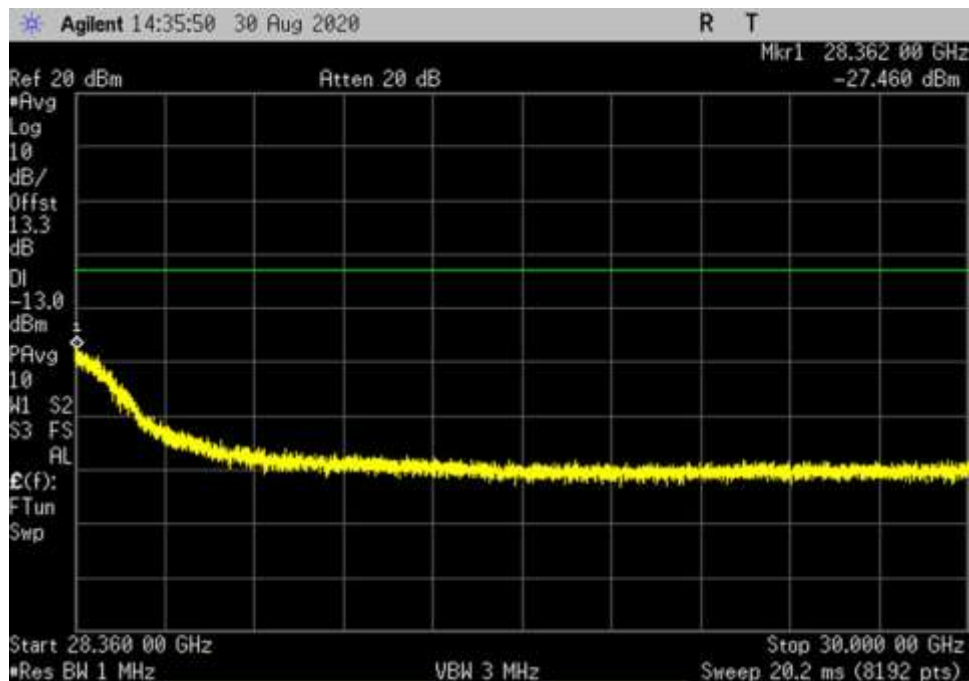
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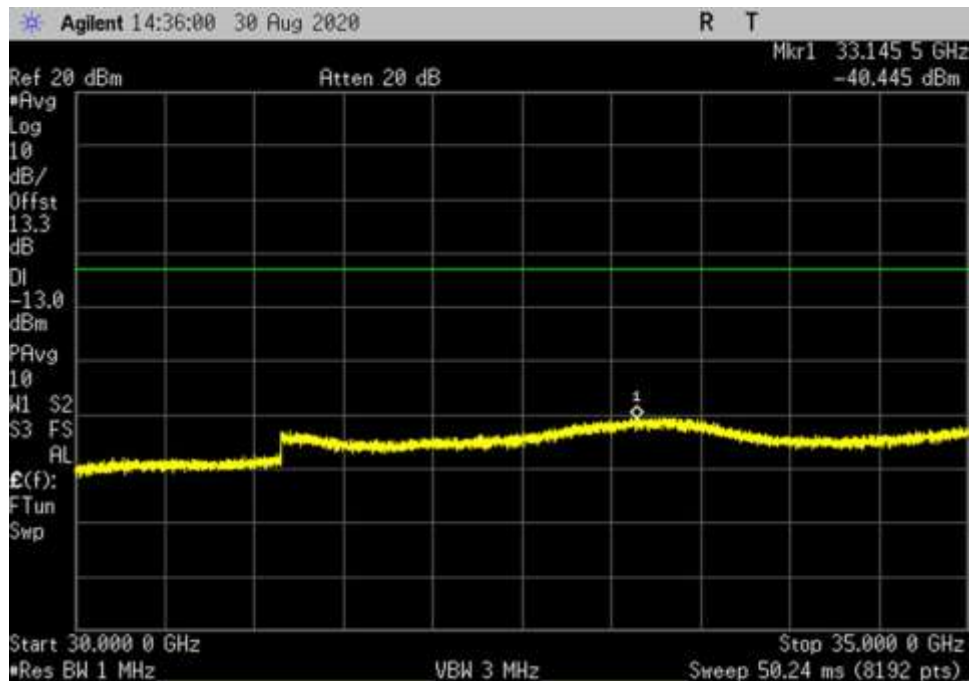
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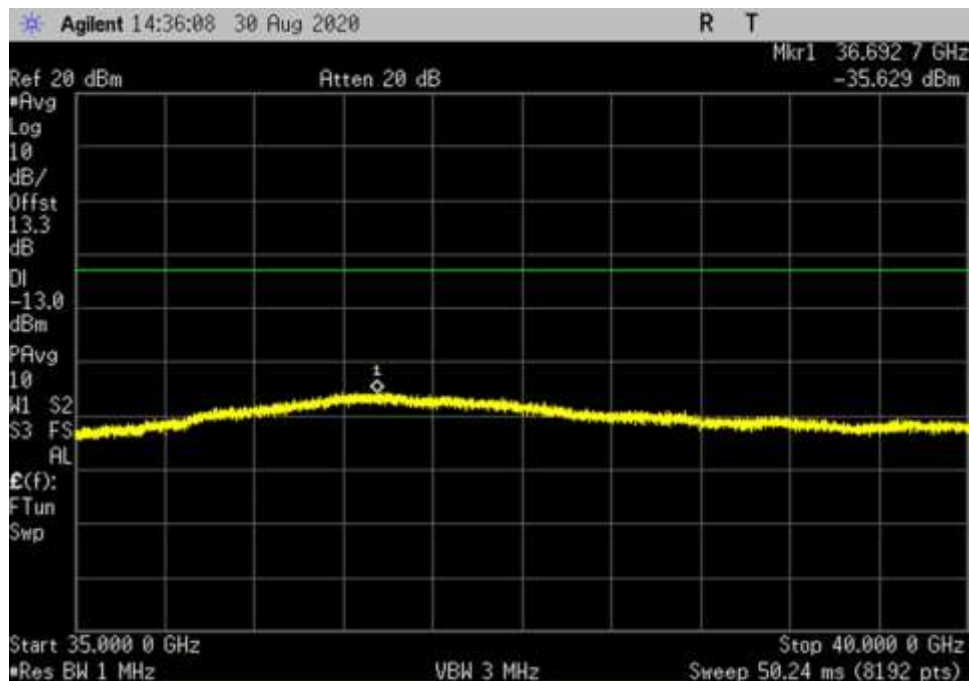
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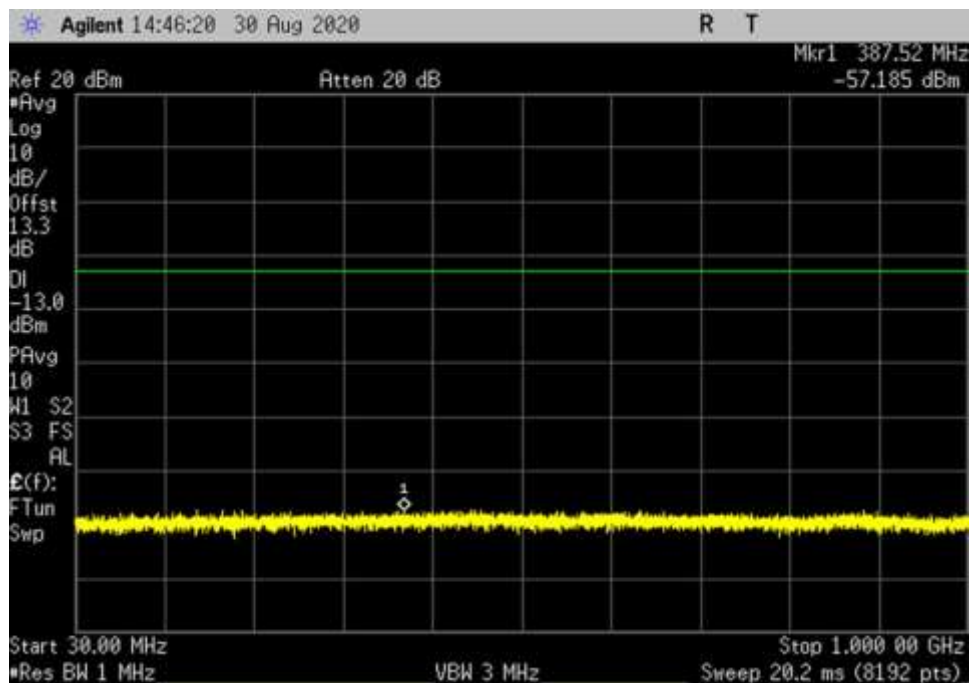
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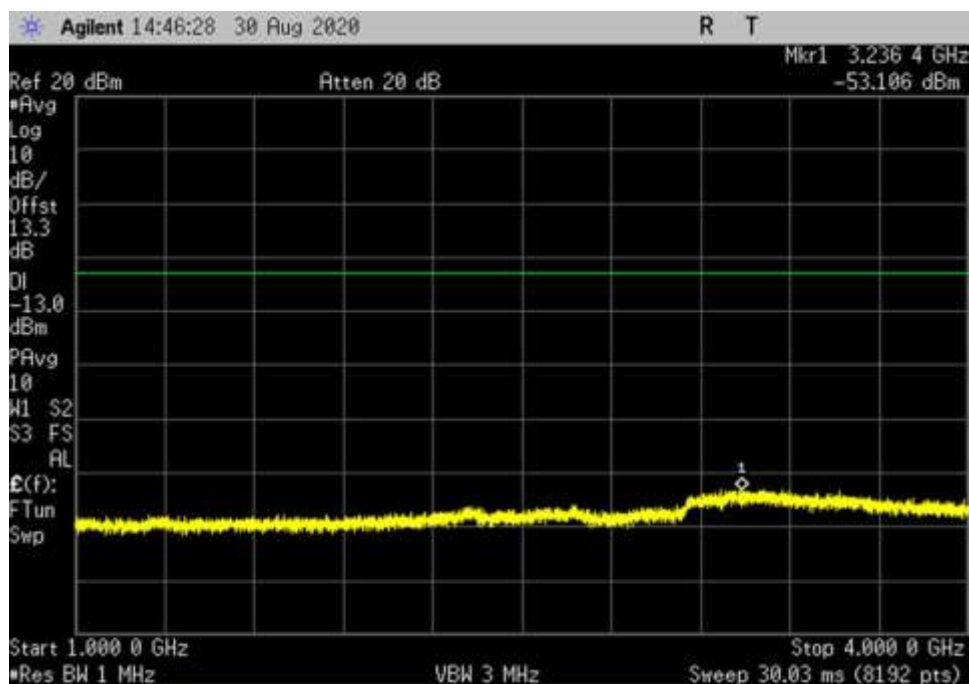
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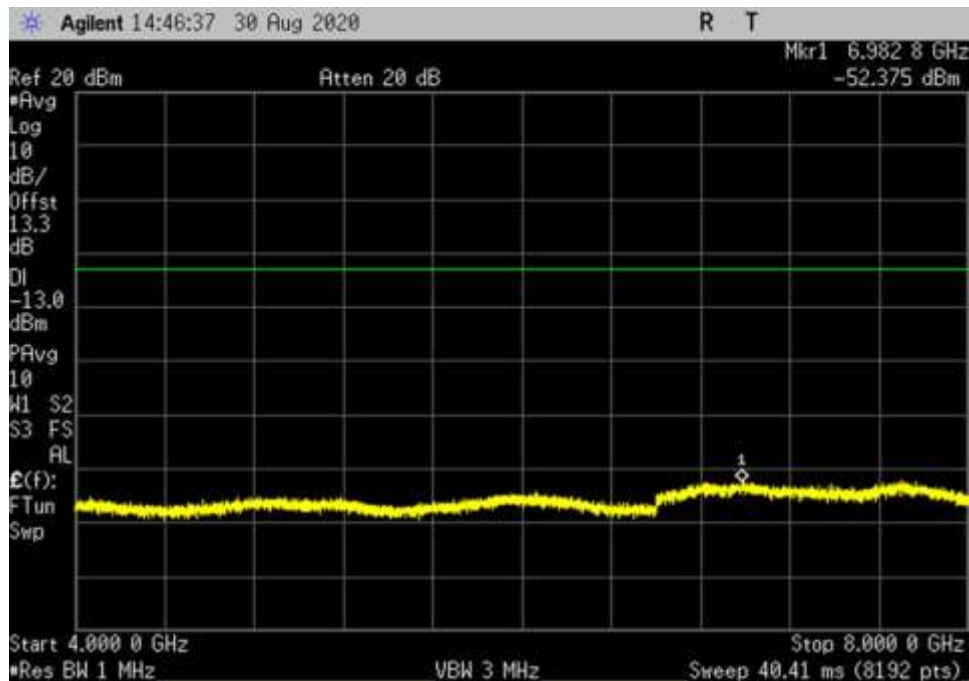
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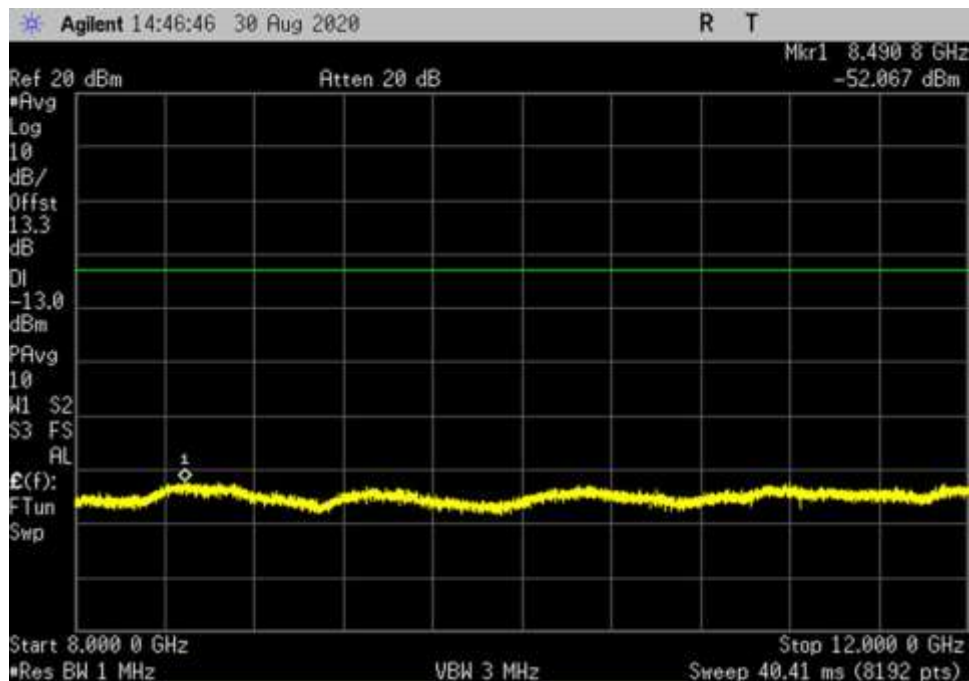
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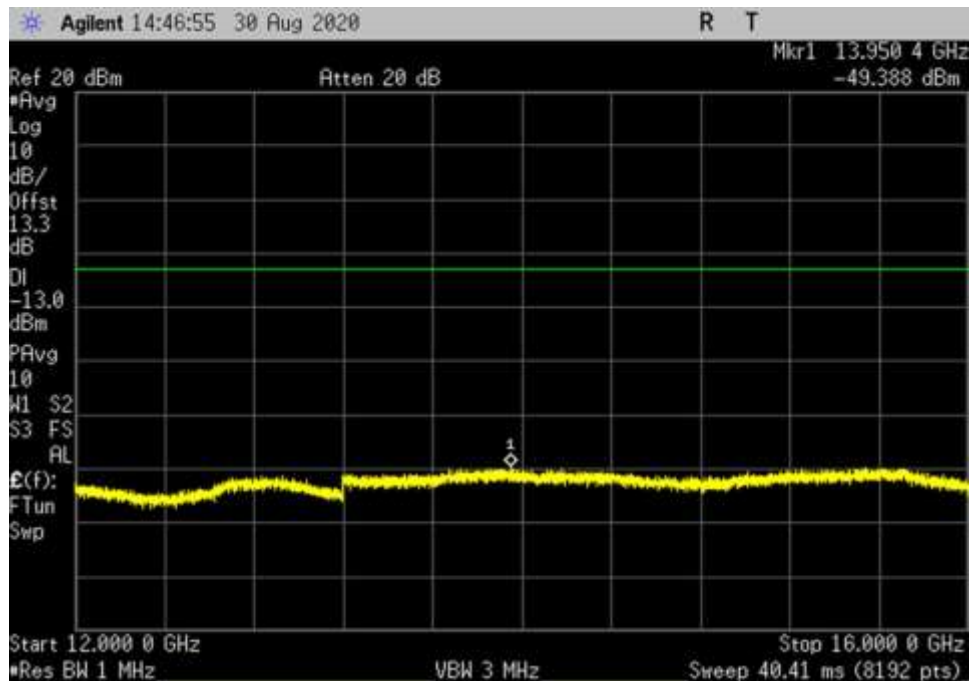
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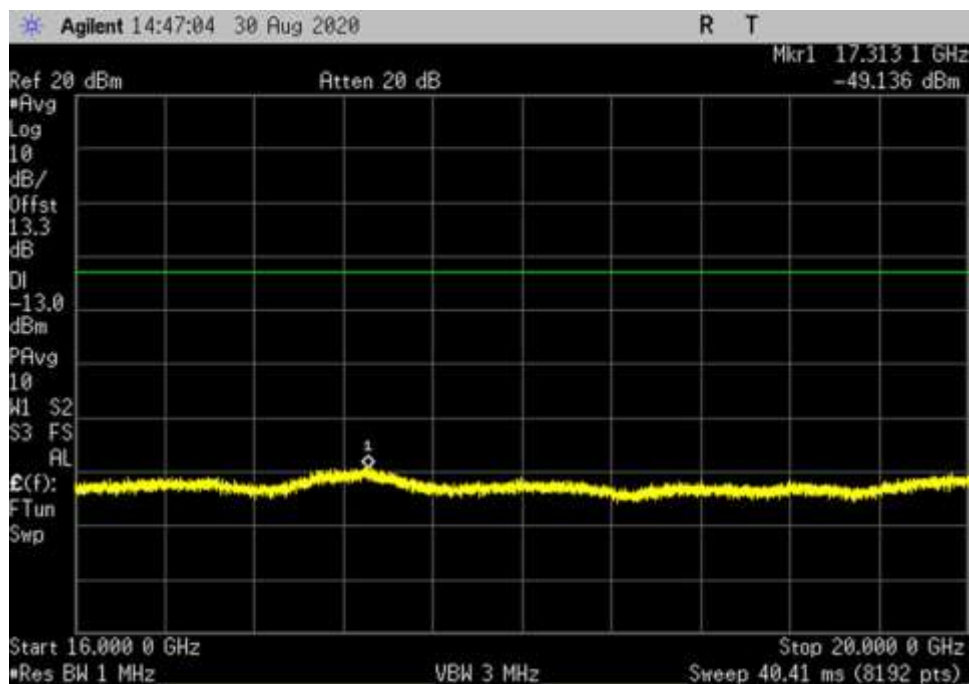
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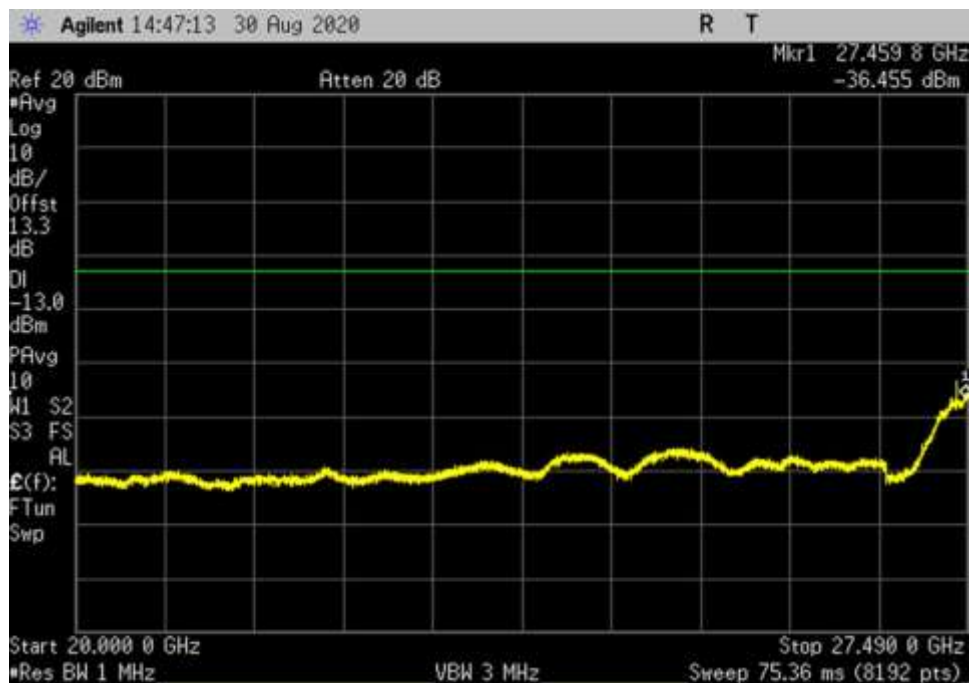
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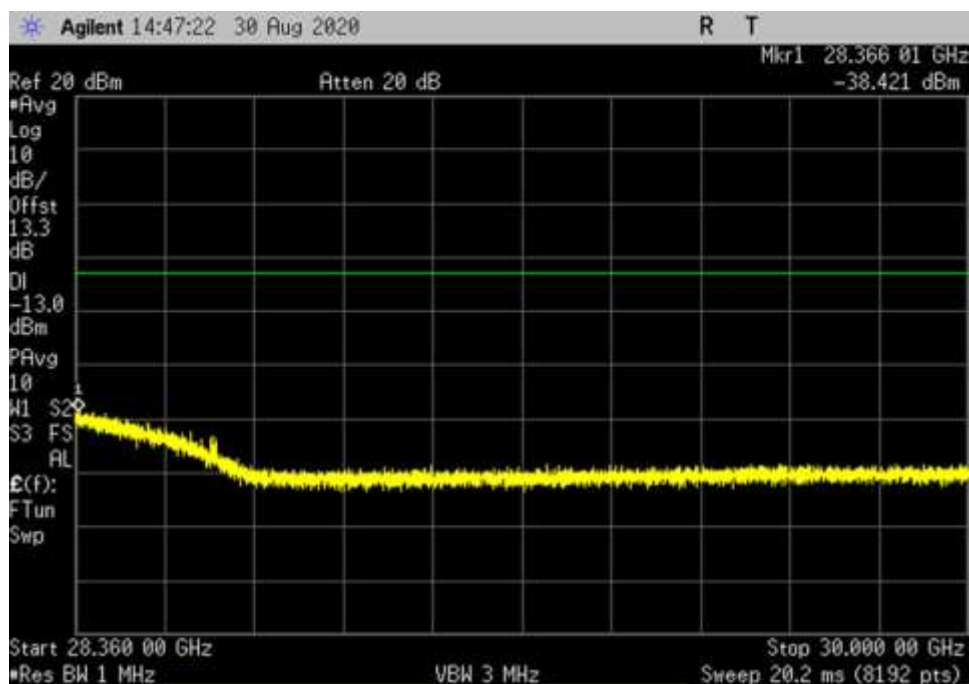
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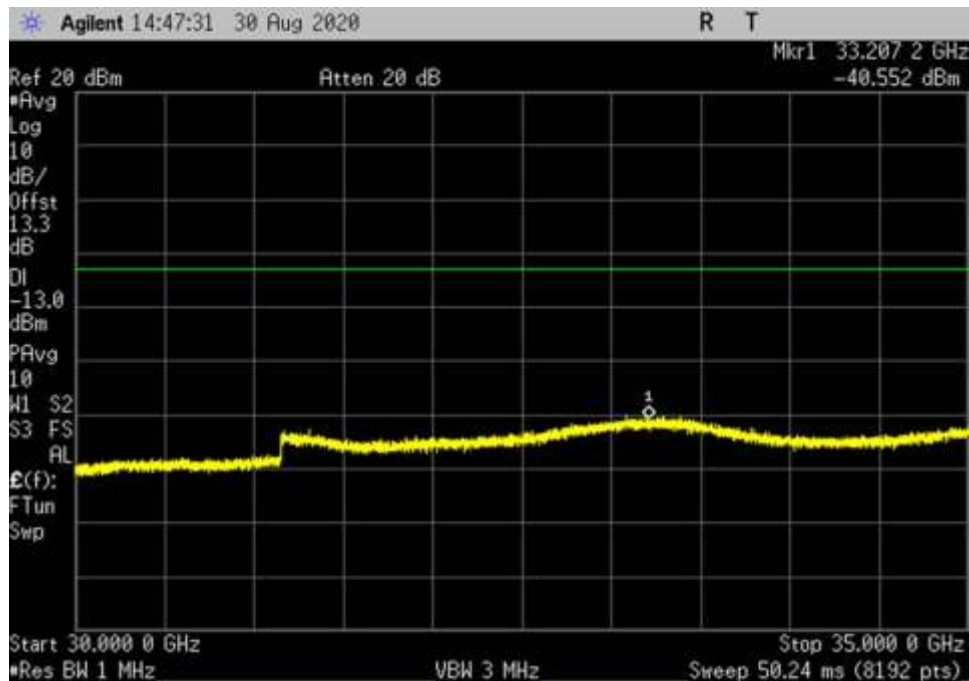
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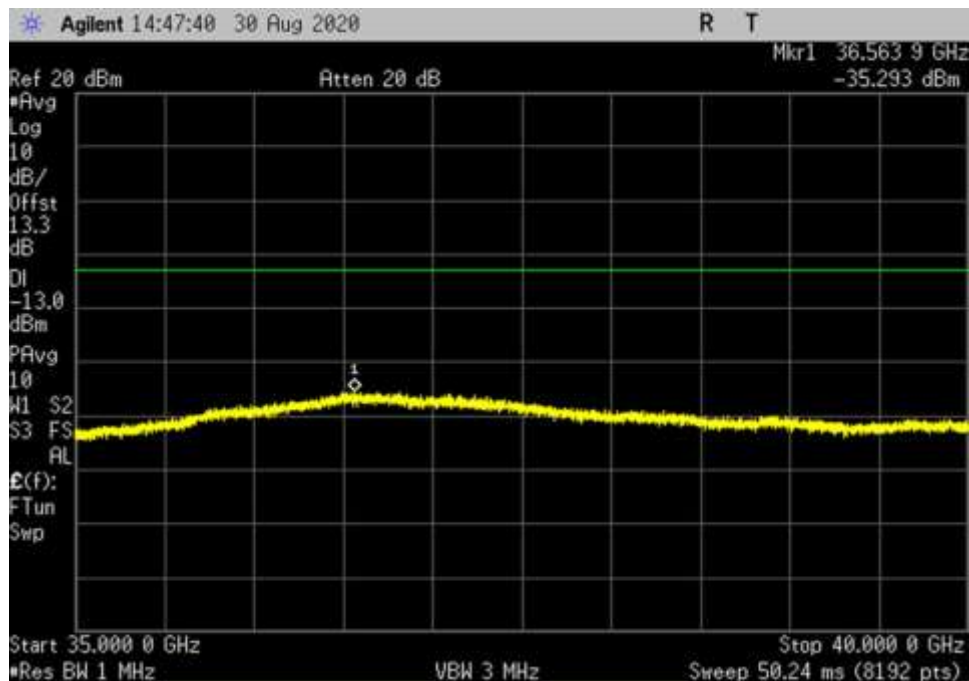
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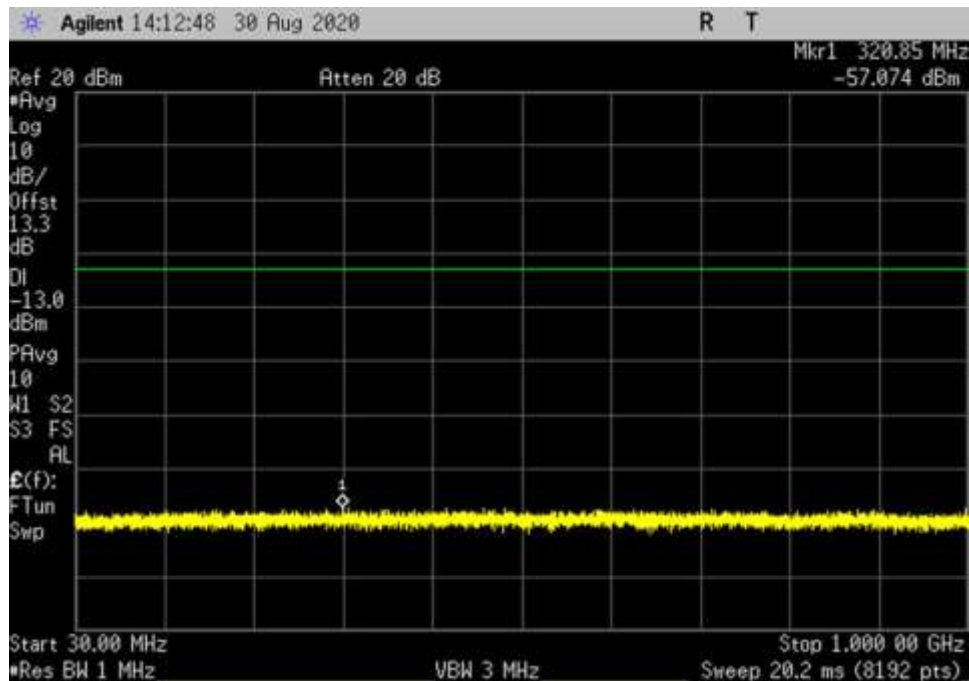
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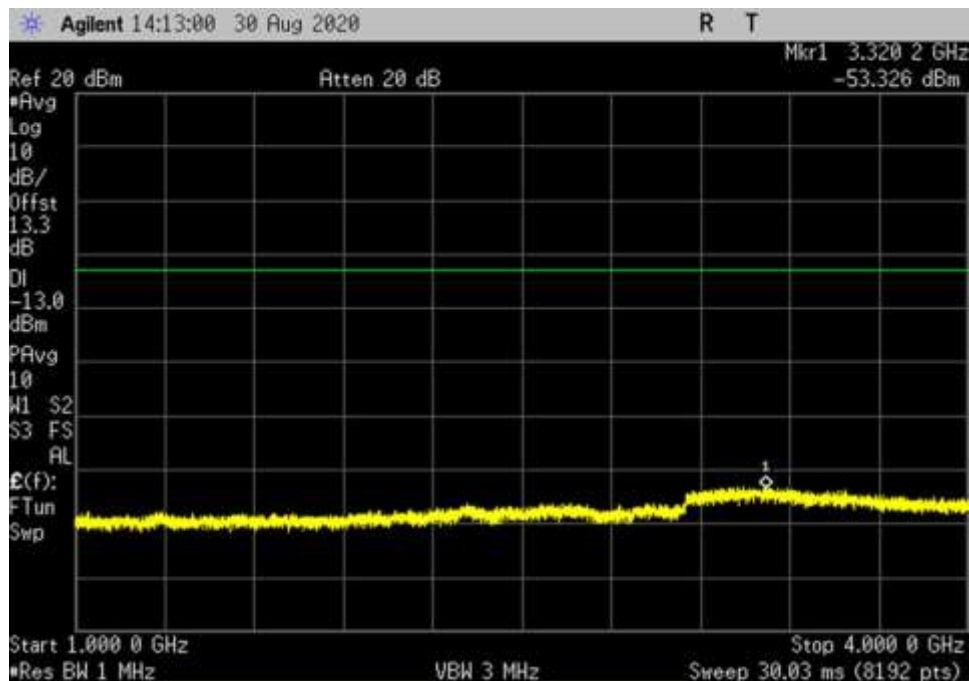
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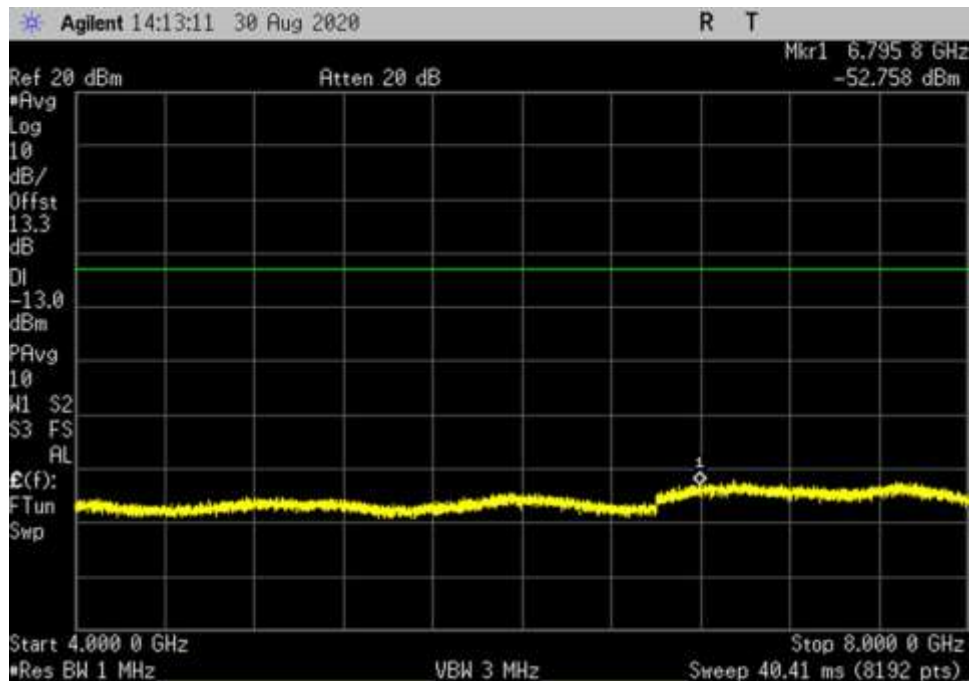
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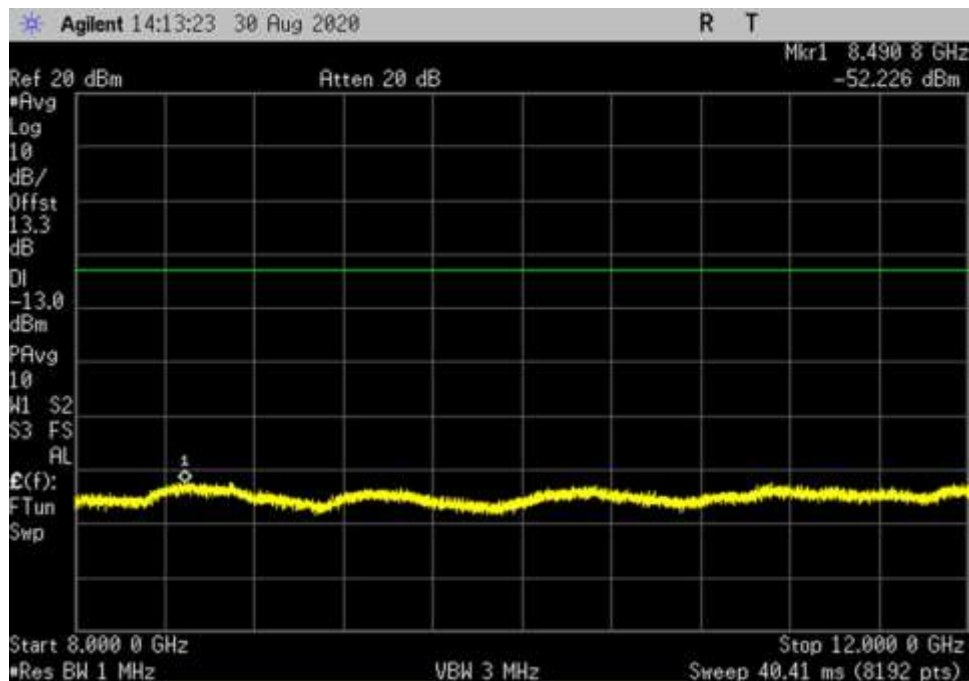
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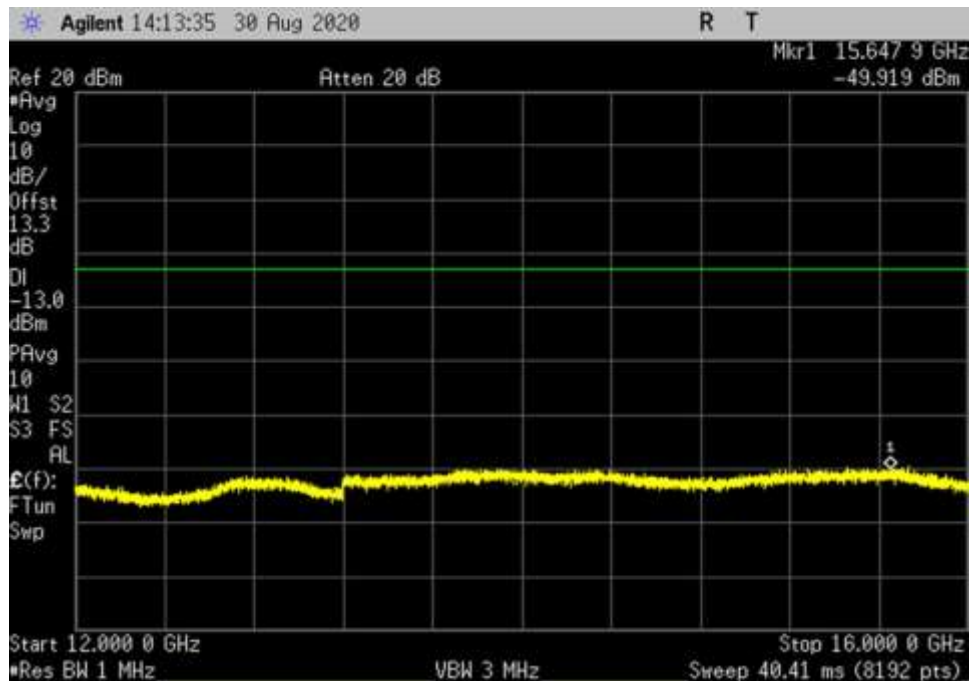
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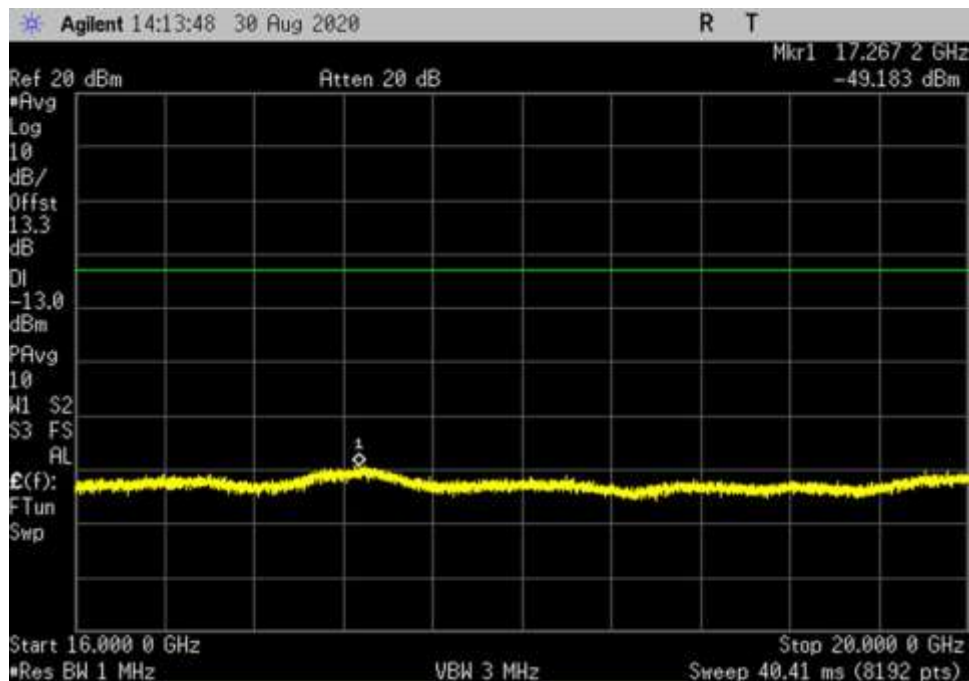
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DL_H_256QAM_100MHz_Full_CP_ 8000- 12000MHz_fo



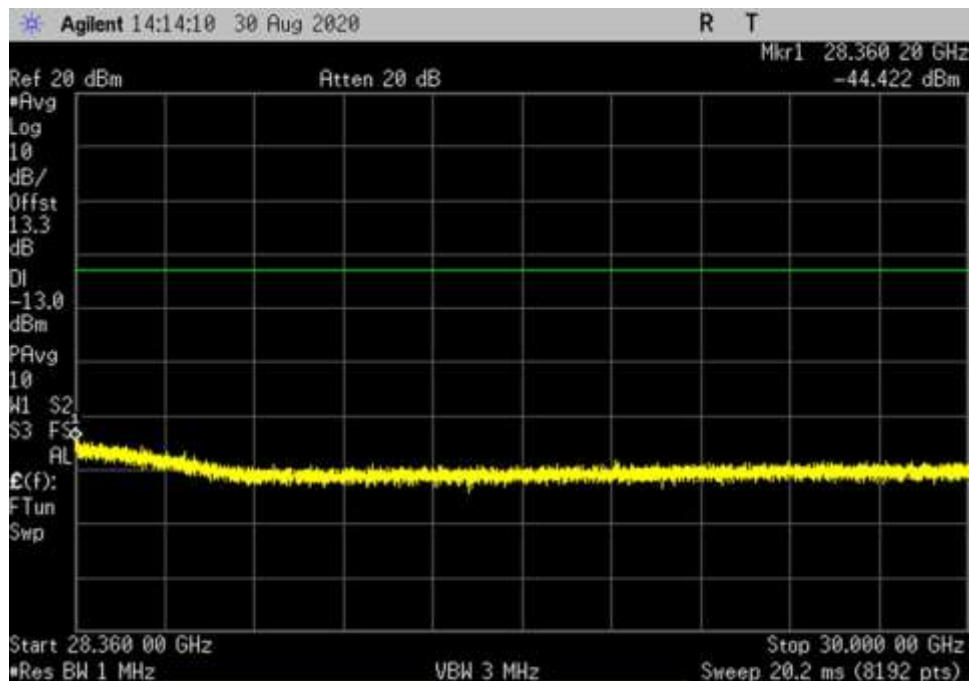
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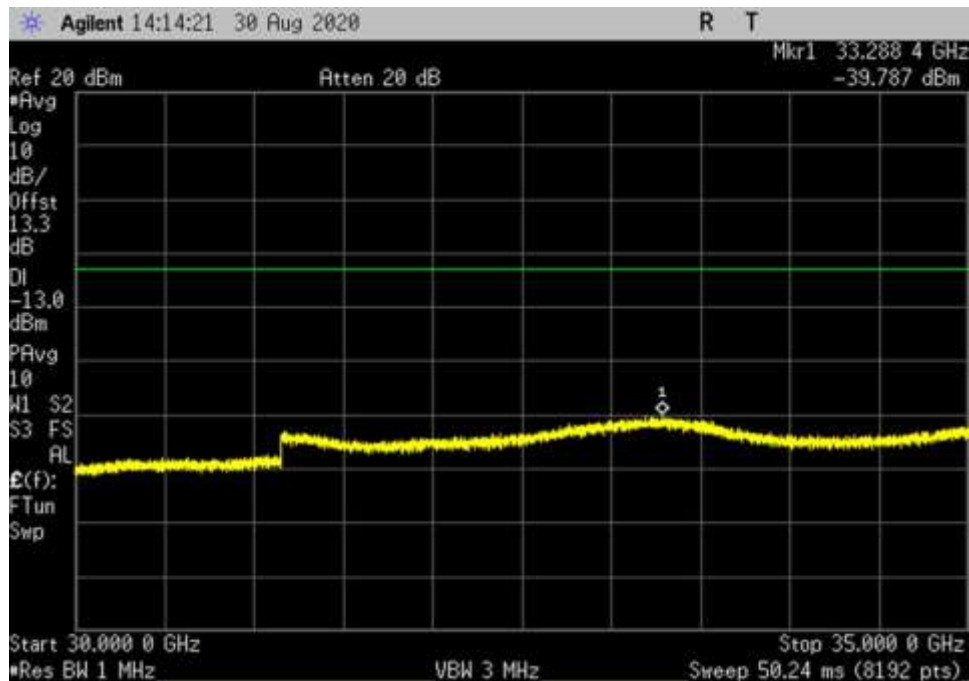
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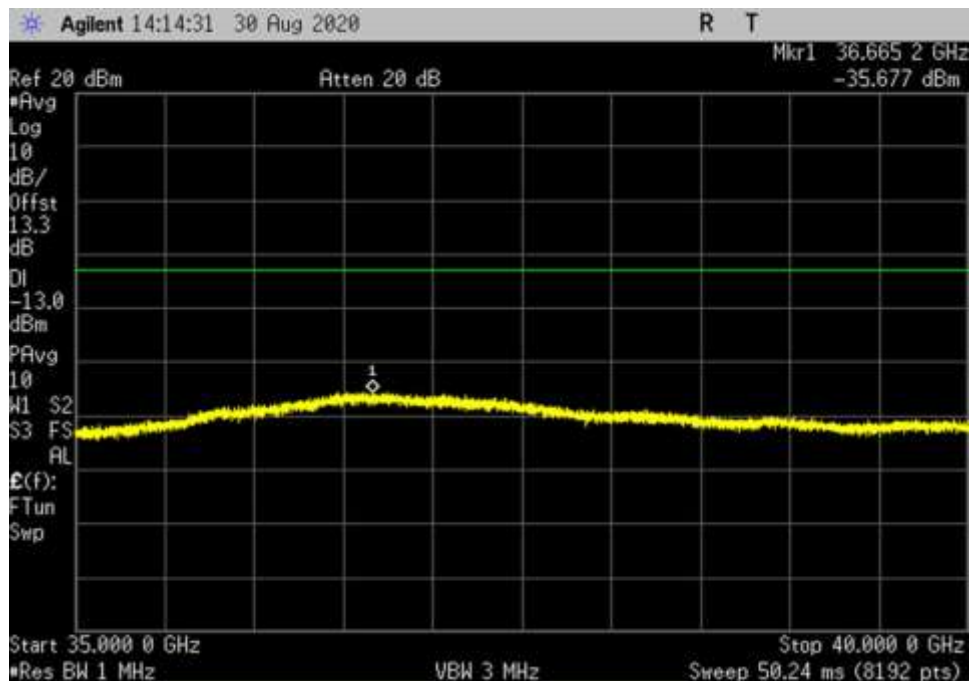
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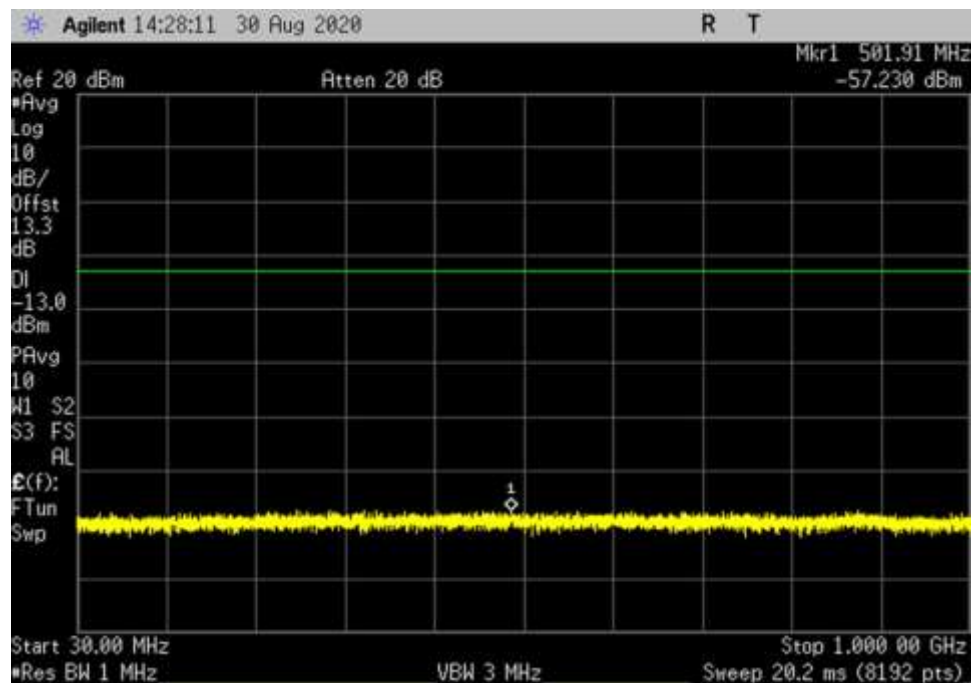
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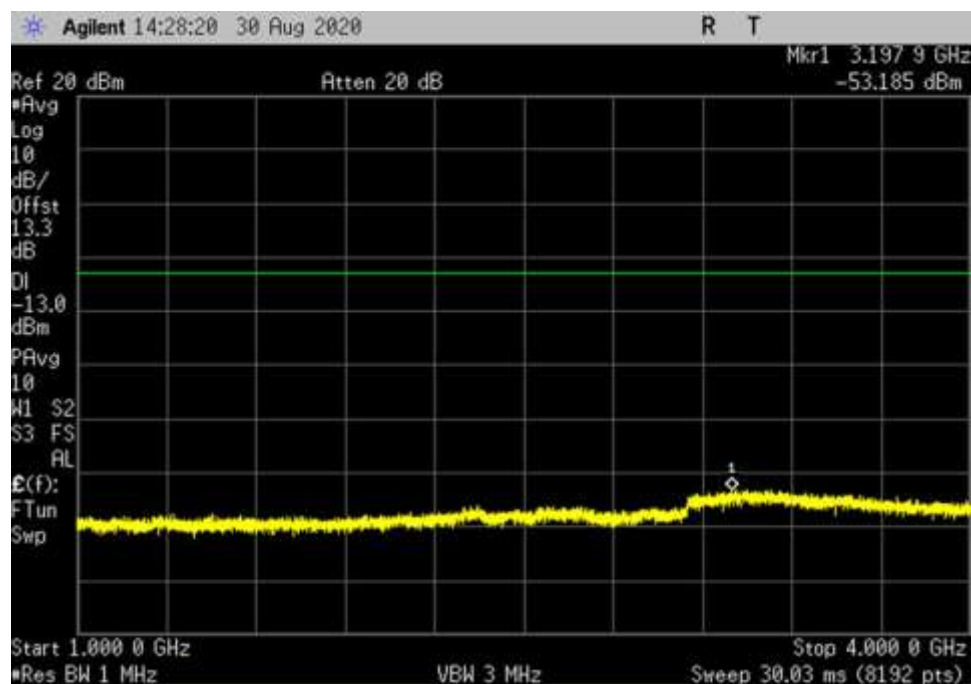
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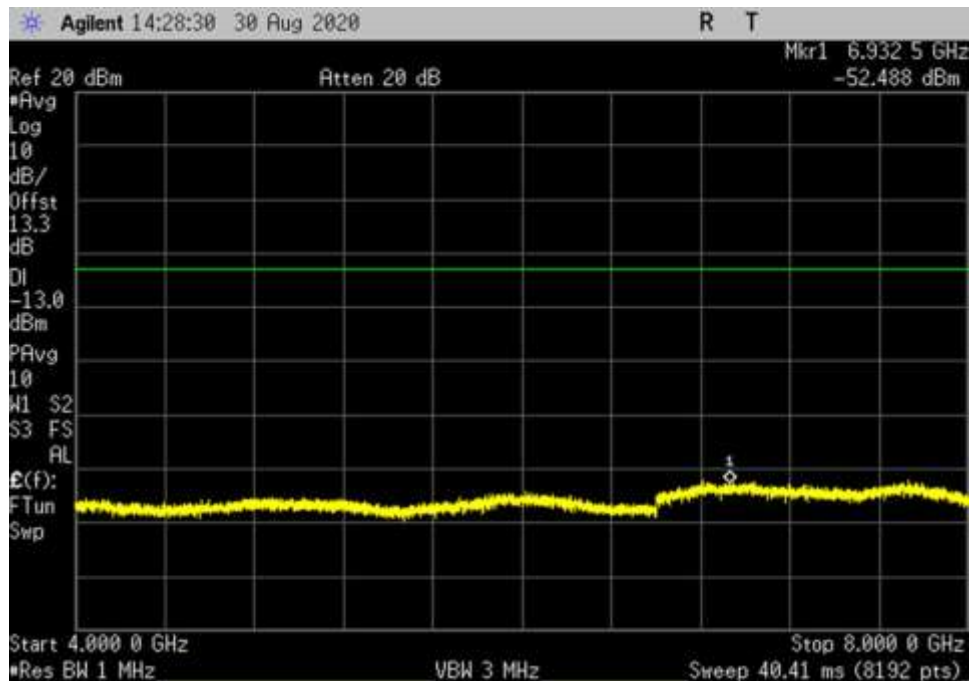
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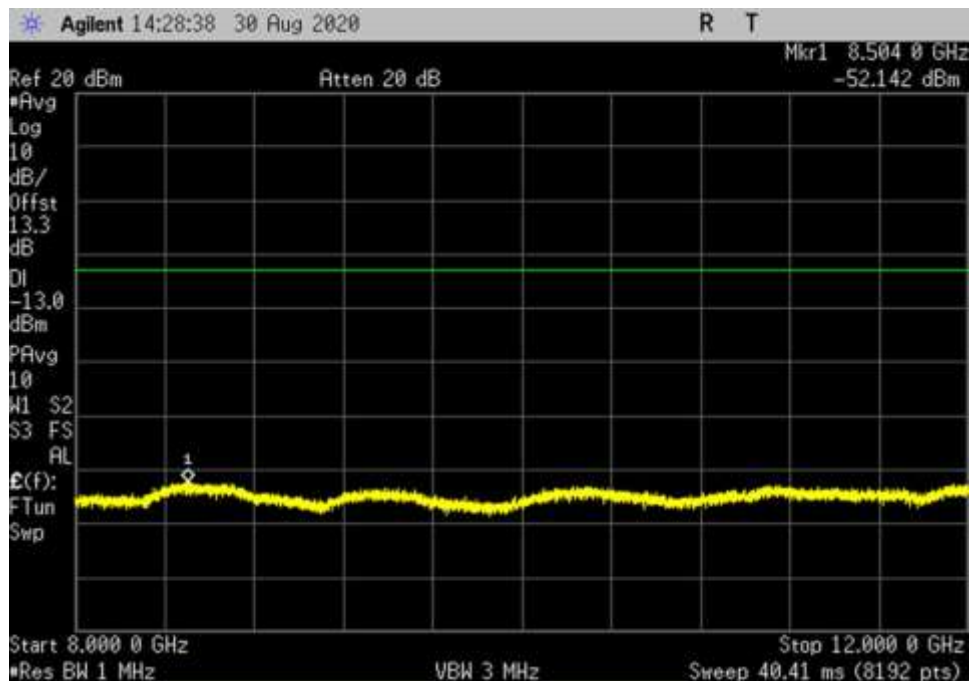
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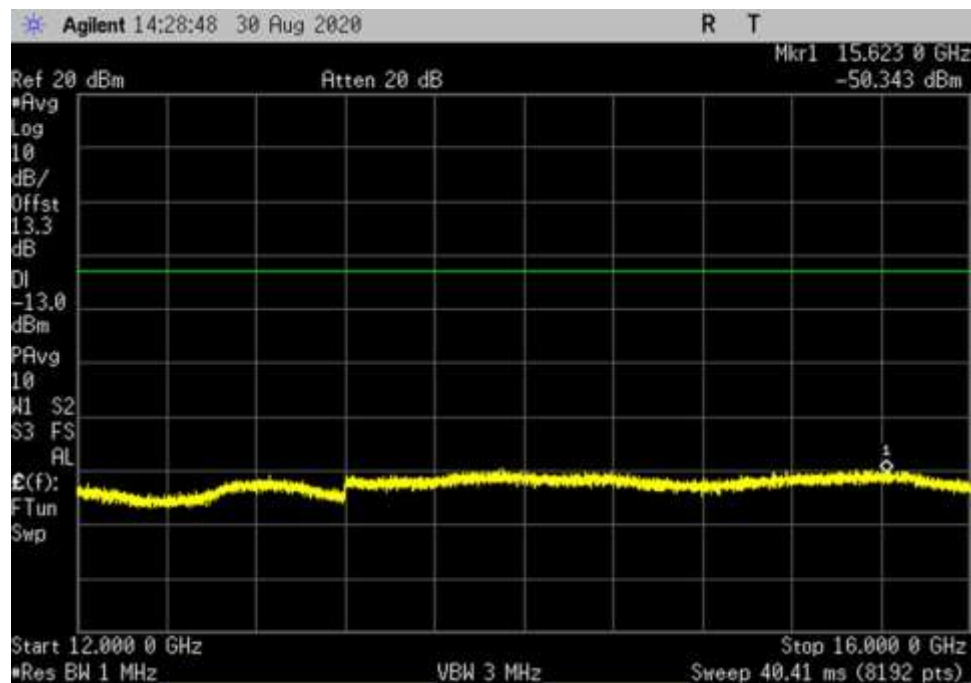
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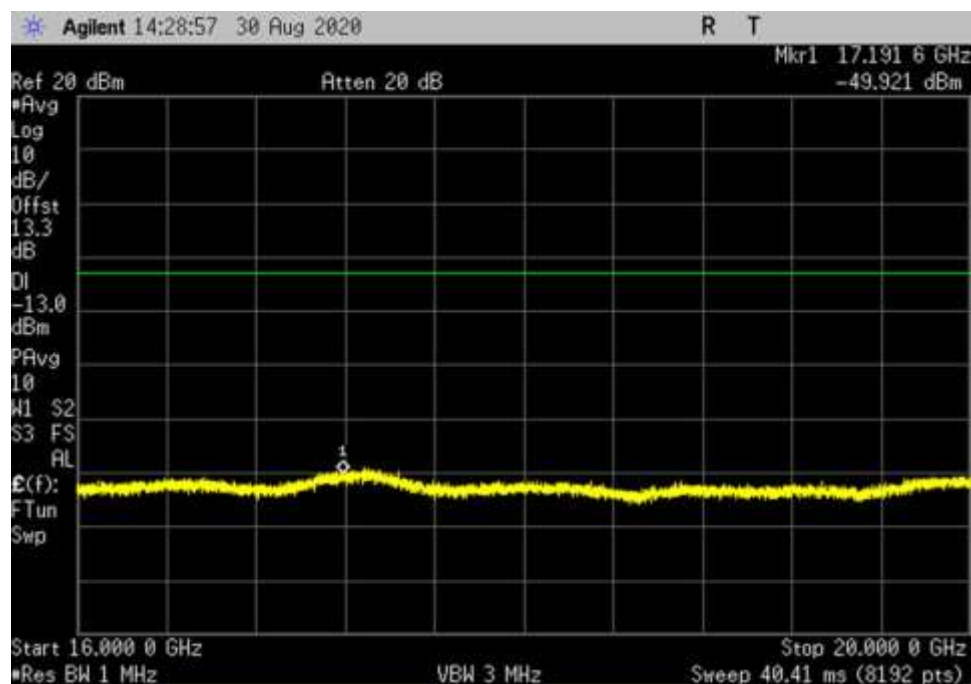
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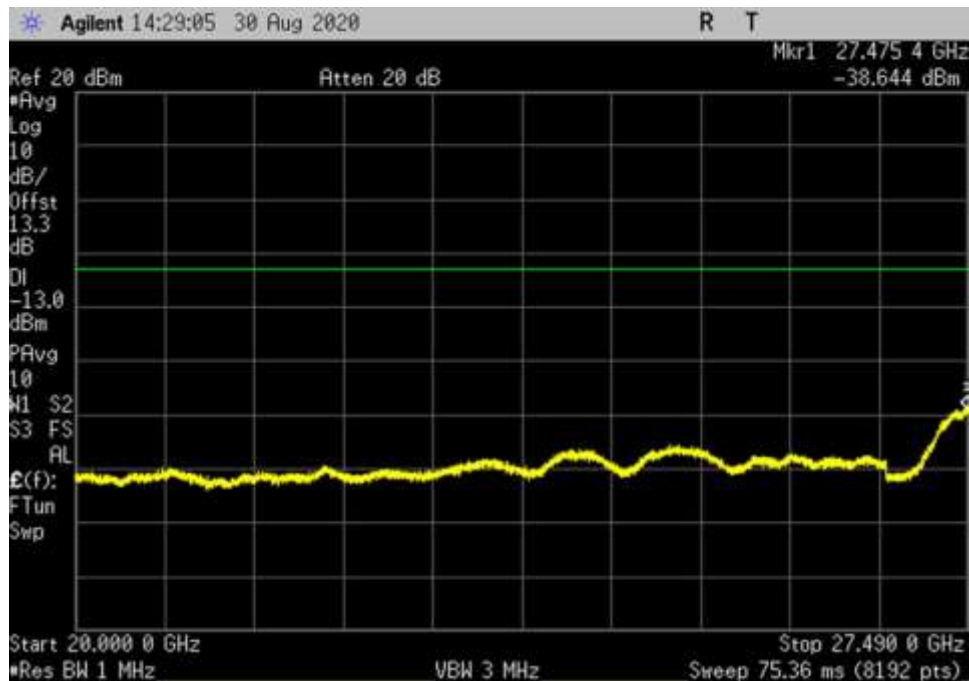
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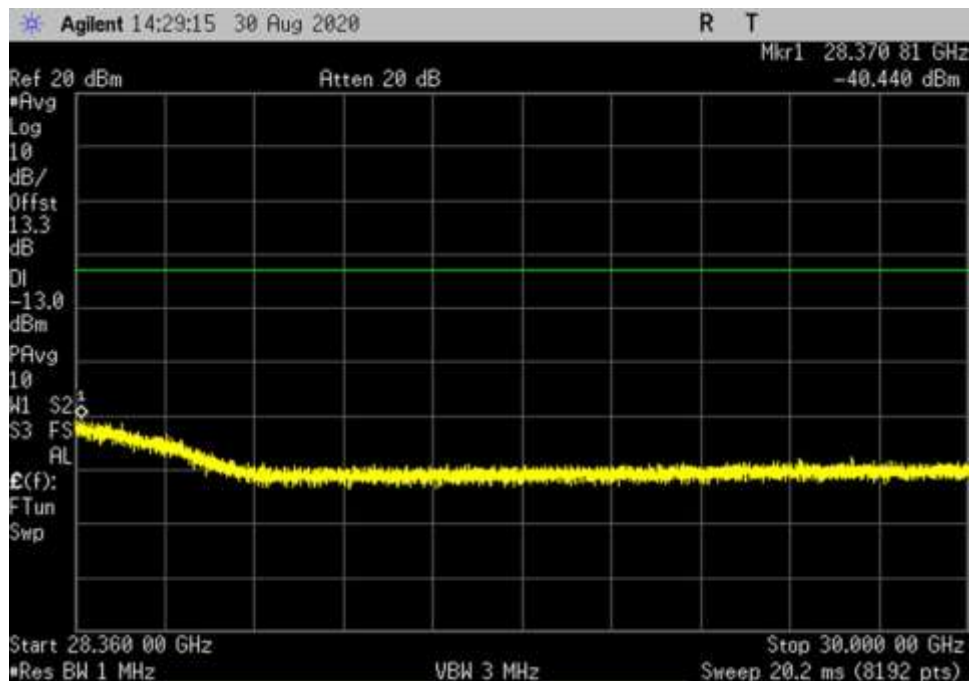
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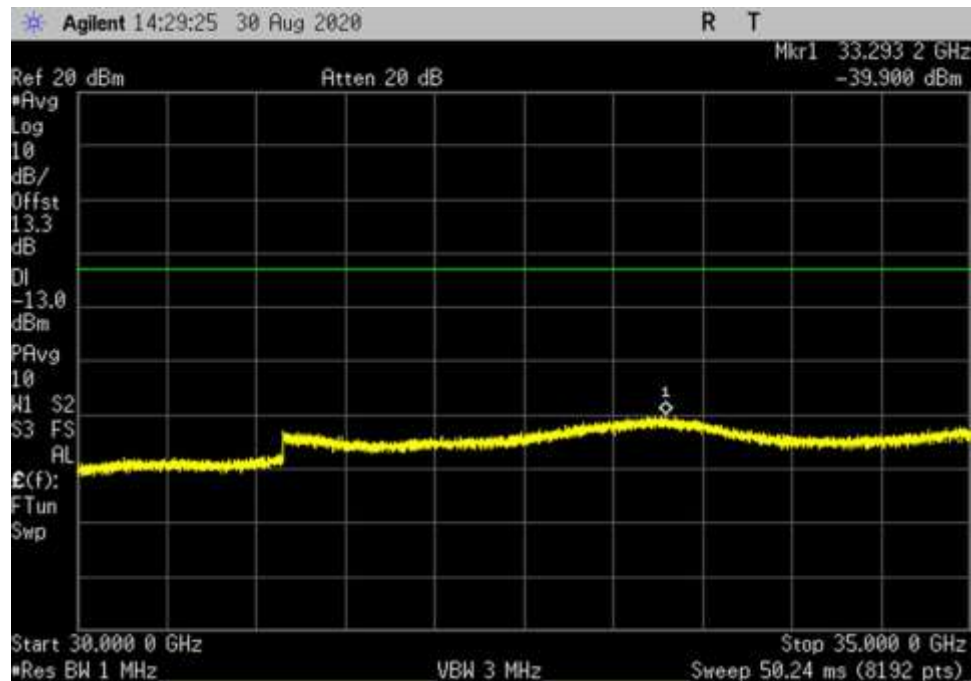
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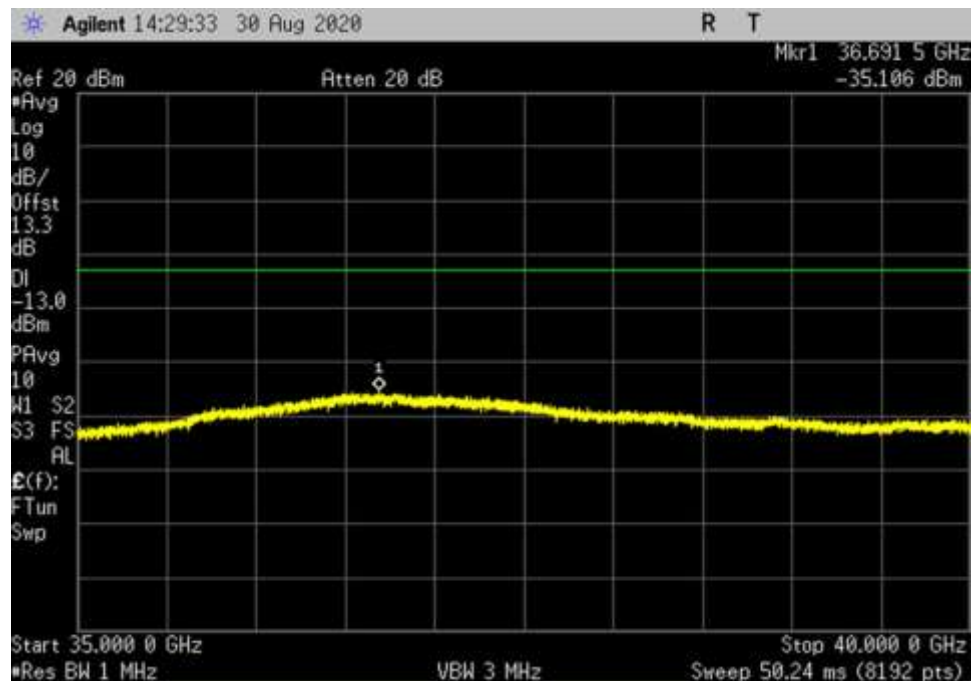
DL_H_256QAM_100MHz_RB1_CP_20000-27490MHz_fo



DL_H_256QAM_100MHz_RB1_CP_28360-30000MHz_fo



DL_H_256QAM_100MHz_RB1_CP_ 30000- 35000MHz_fo



DL_H_256QAM_100MHz_RB1_CP_ 35000- 40000MHz_fo