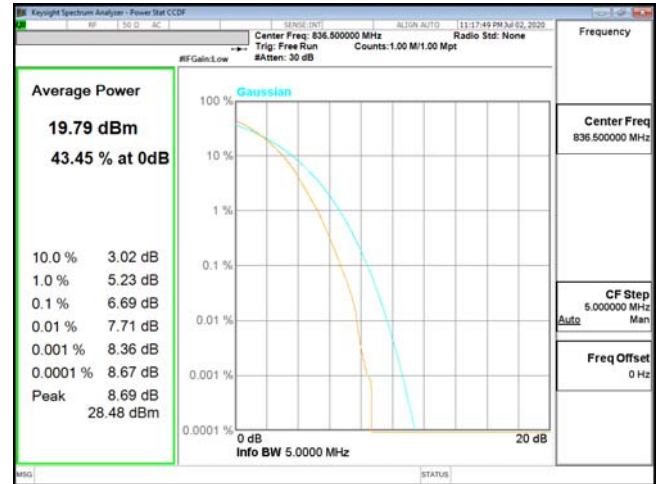
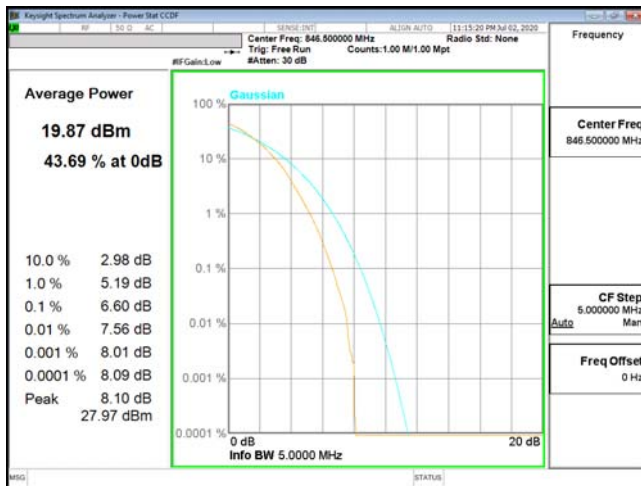


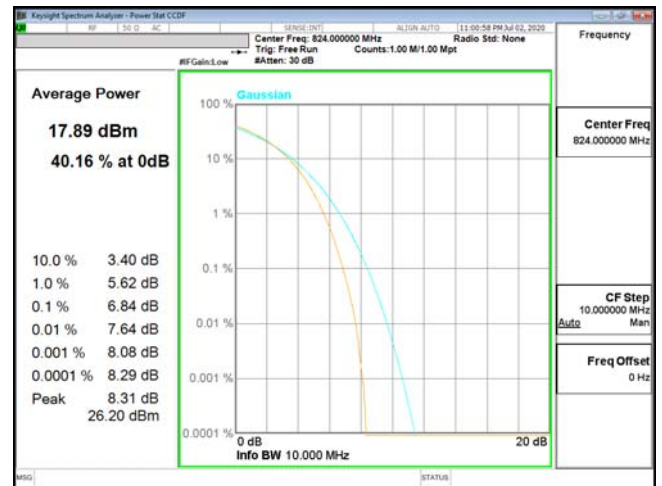
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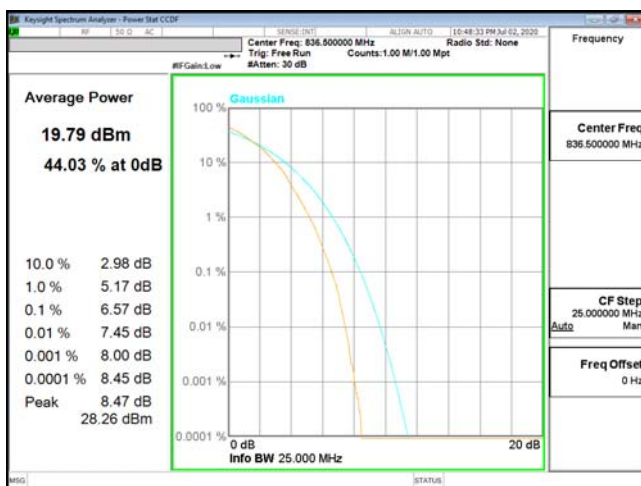
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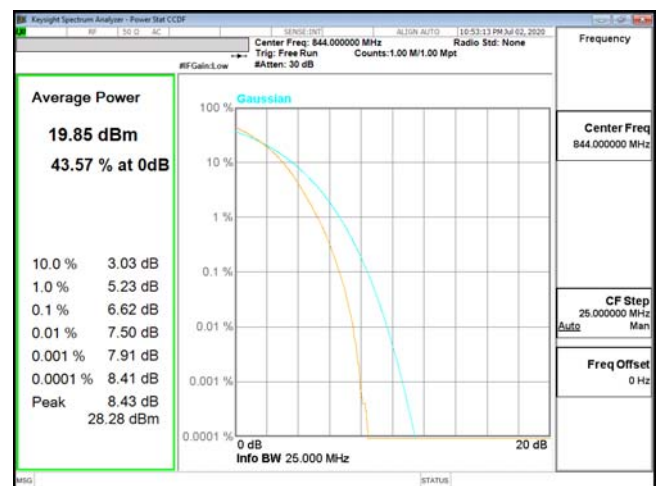
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PTAR-ENDC\_5A\_n2-64QAM\_10M\_CH20450\_829(50,0)

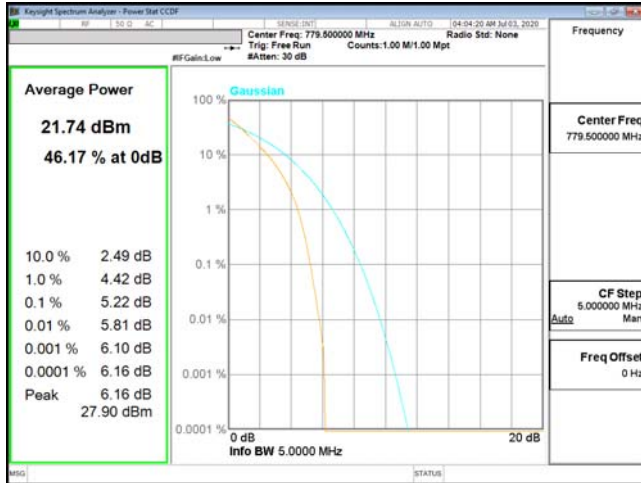


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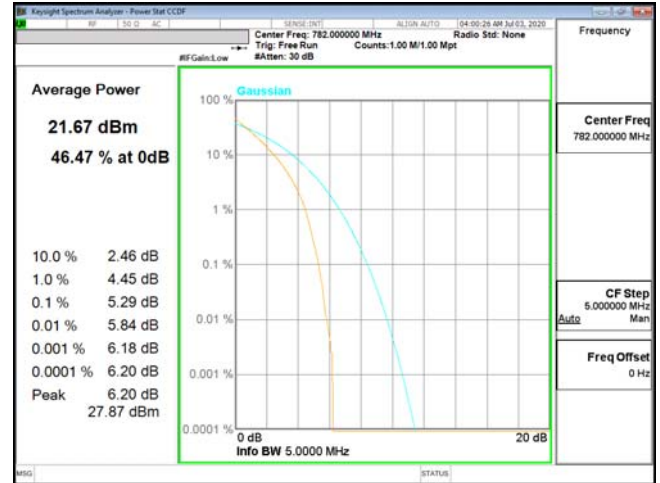


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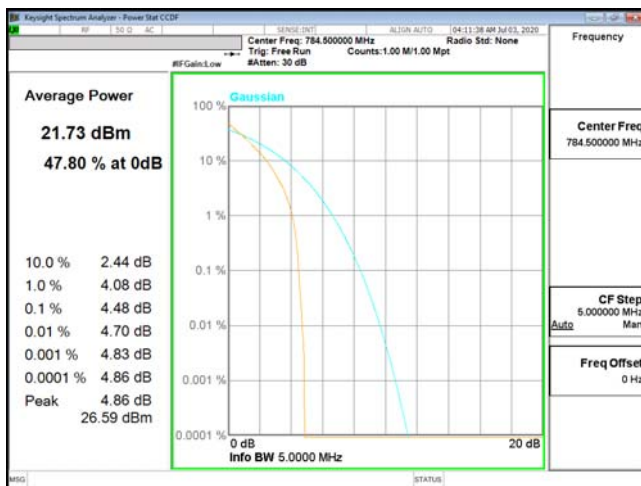
Product	LV55		
Test Mode	Peak to Average Ratio		
Date of Test	2020/06/30	Test Site	SR12-H
Test Condition	ENDC LTE Band 13		



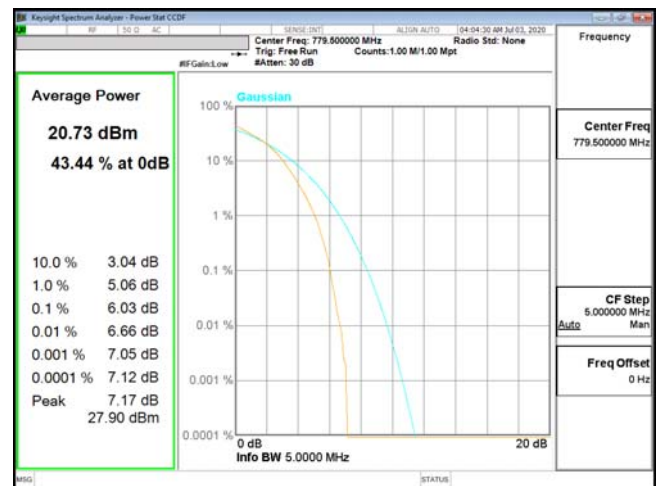
PTAR-ENDC\_13A\_n66-QPSK\_5M\_CH23205\_779.5(25.0)



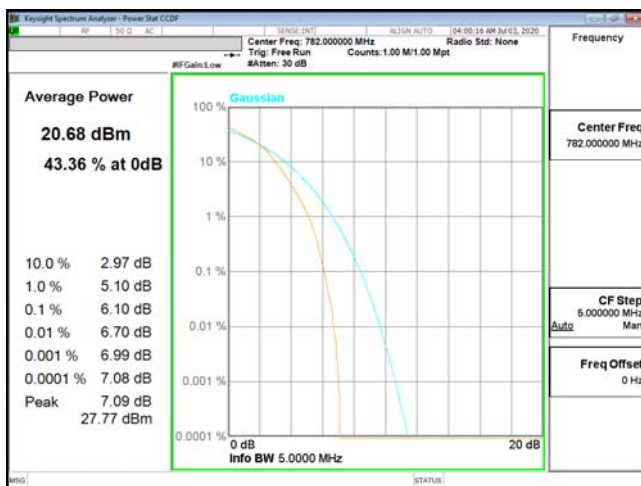
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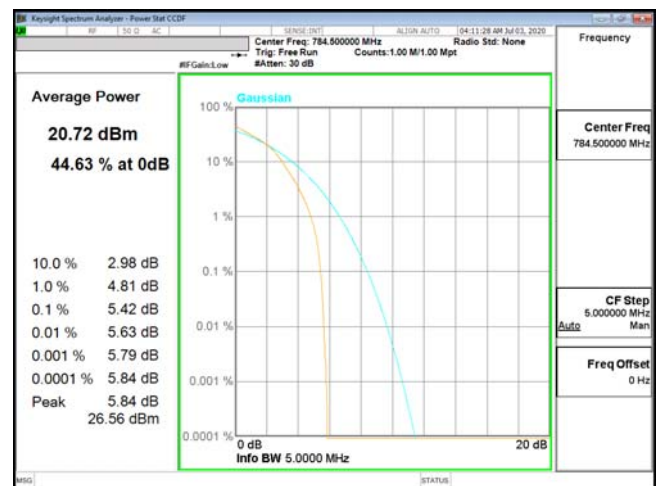
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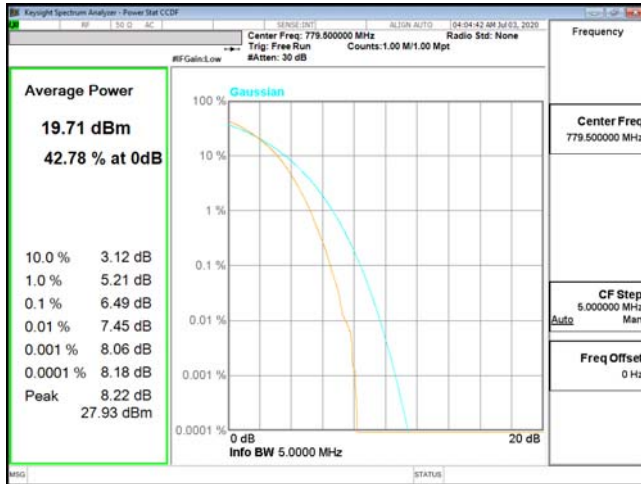
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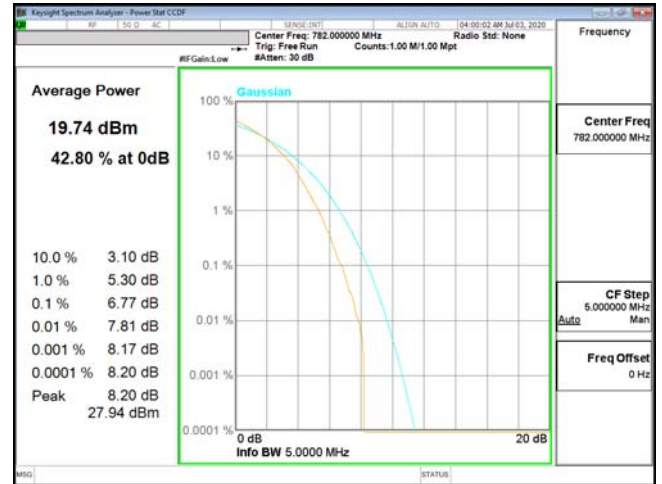
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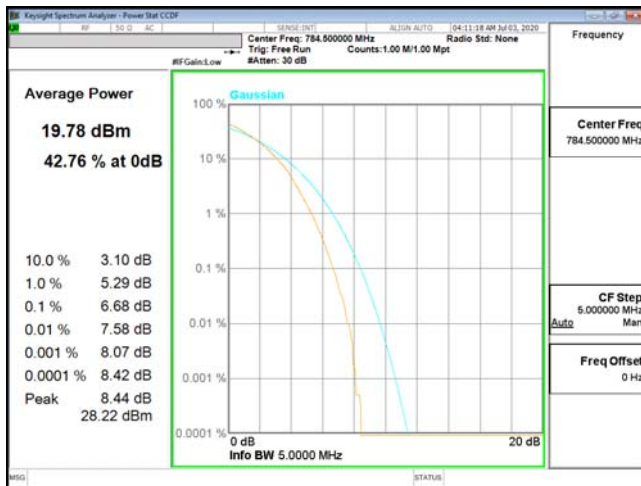
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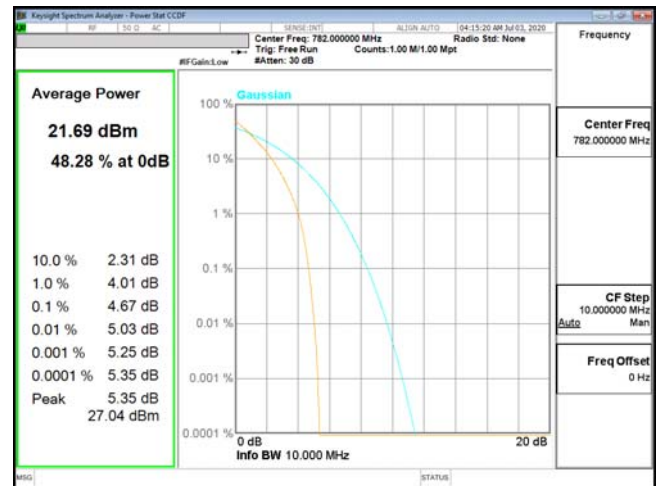
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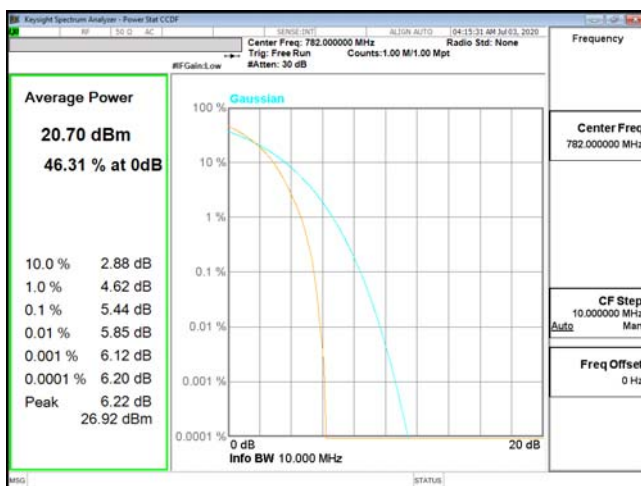
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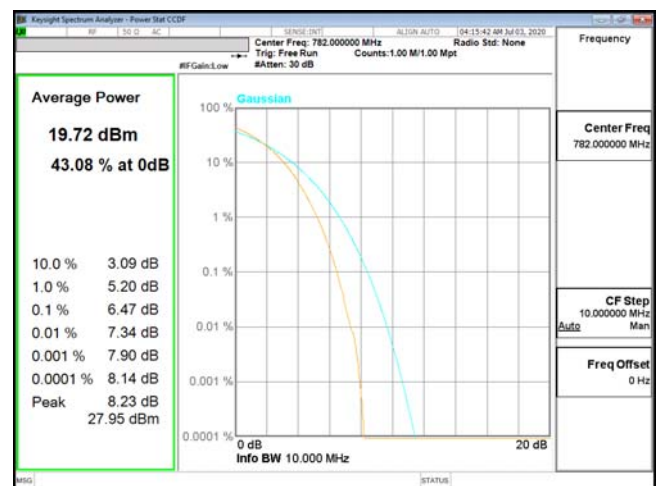
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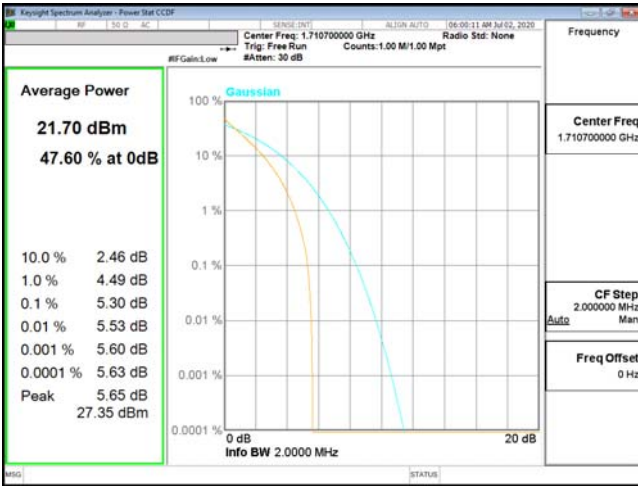


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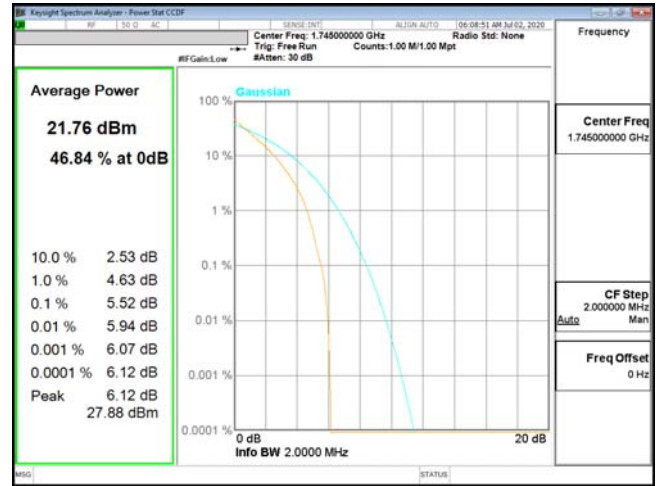


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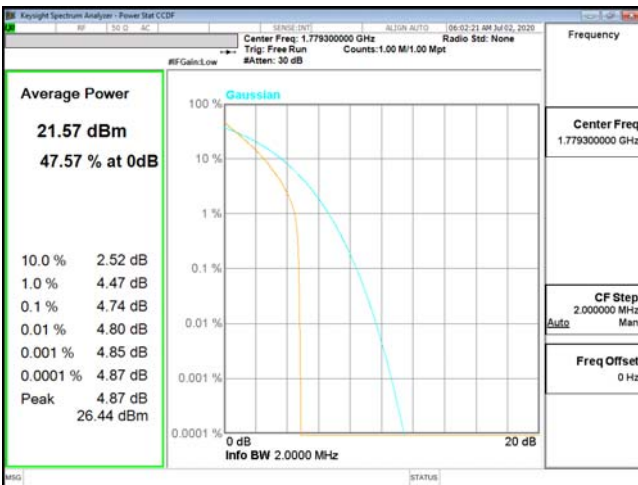
Product	LV55		
Test Mode	Peak to Average Ratio		
Date of Test	2020/06/30	Test Site	SR12-H
Test Condition	ENDC LTE Band 66		



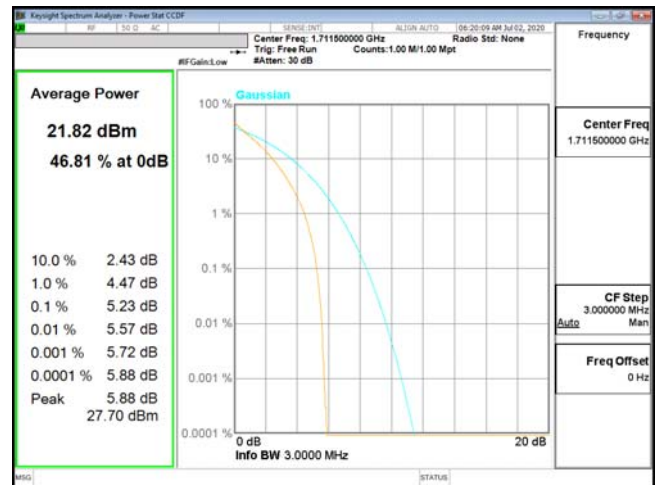
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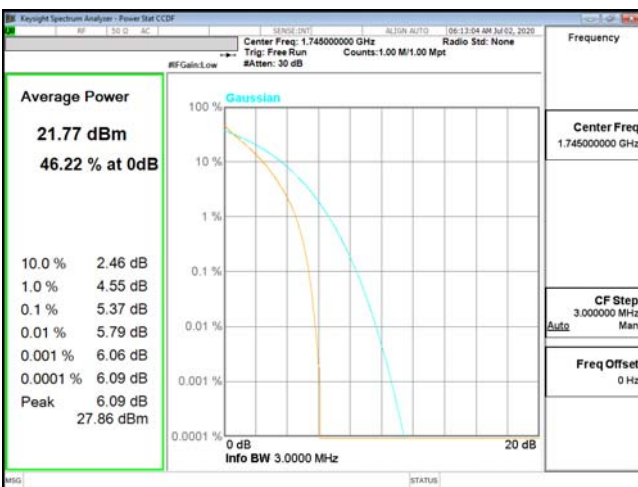
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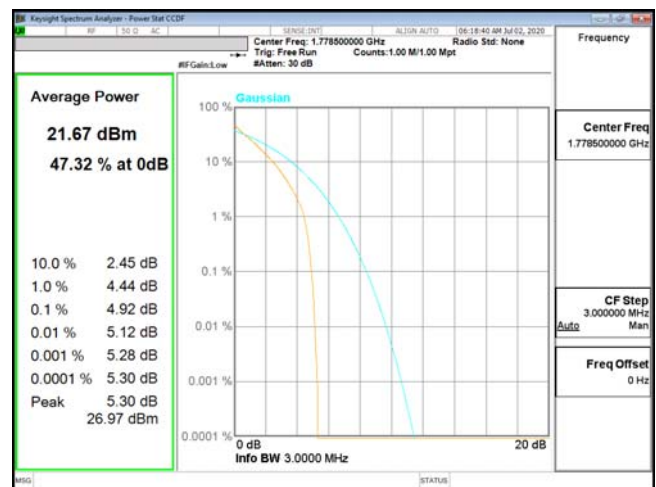
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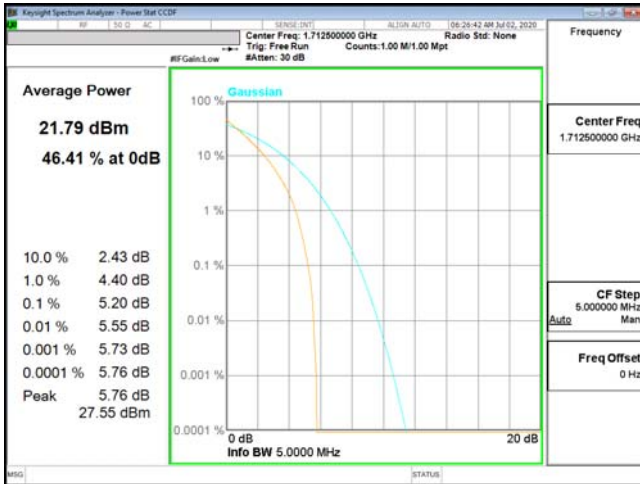
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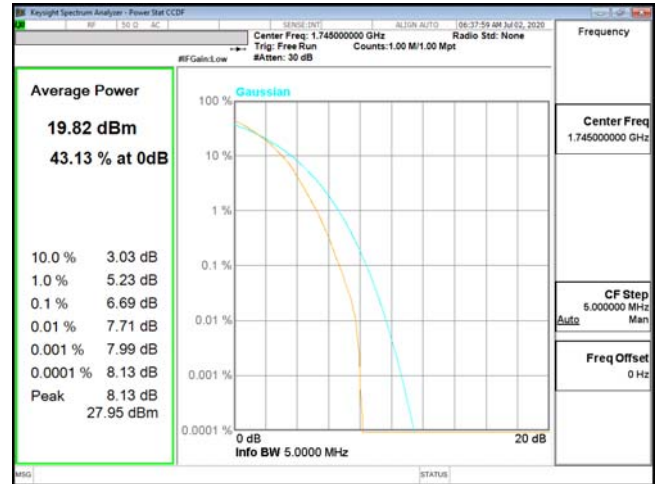
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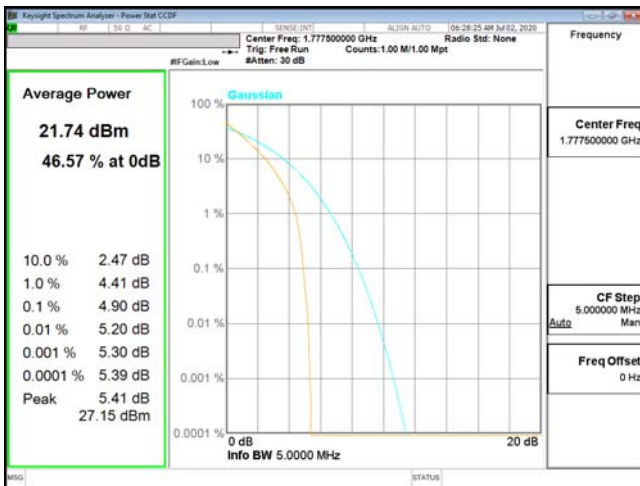
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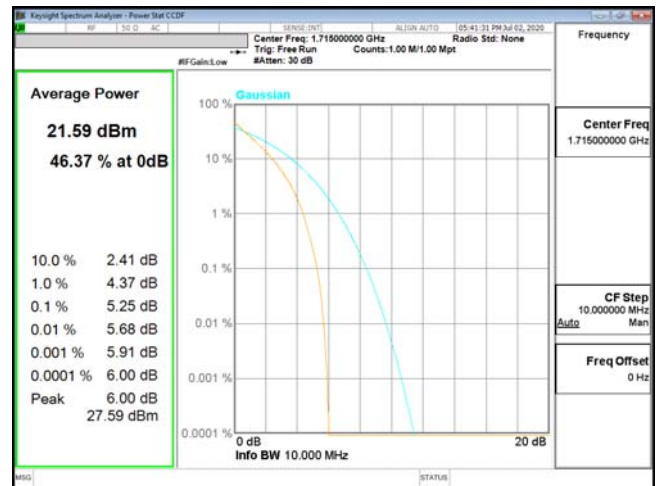
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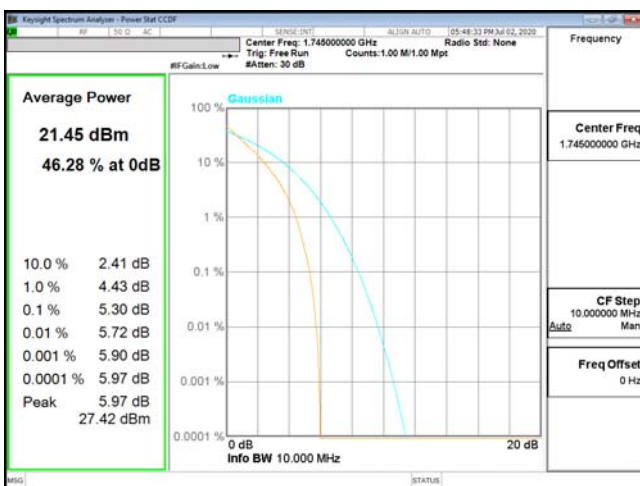
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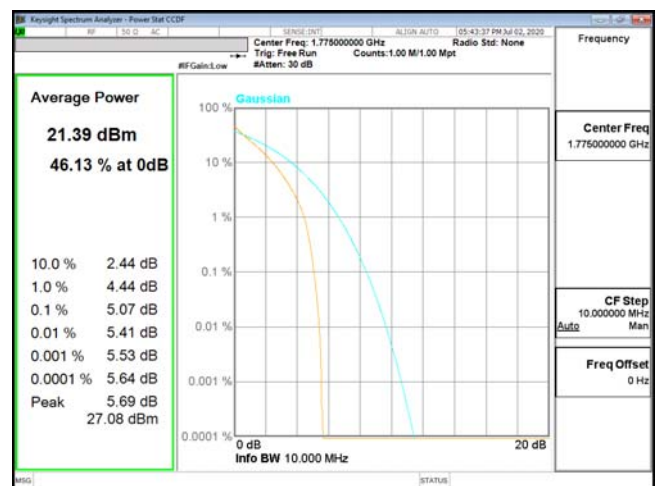
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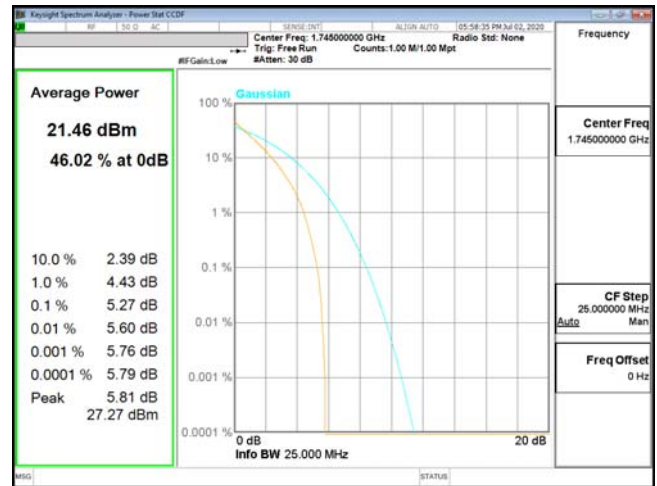
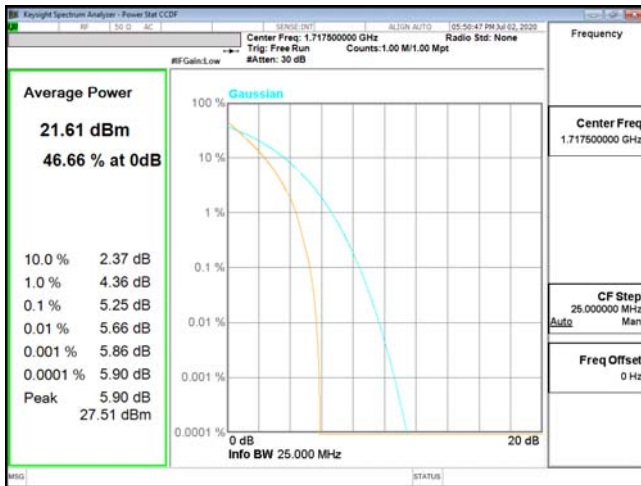
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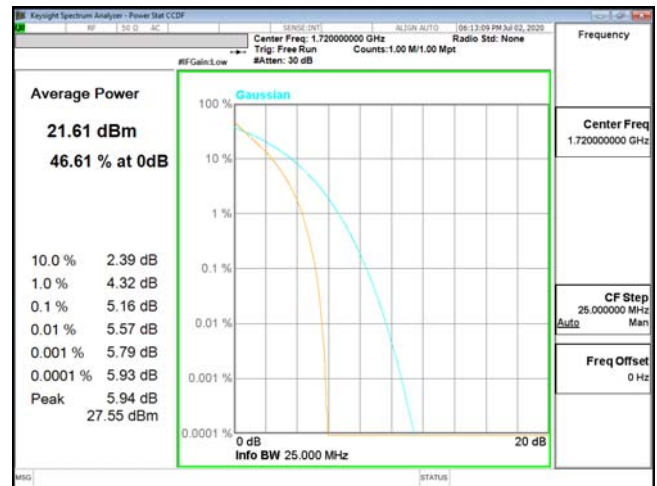
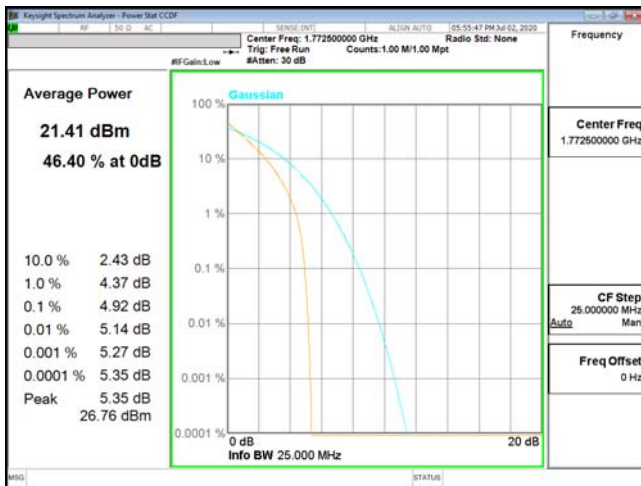


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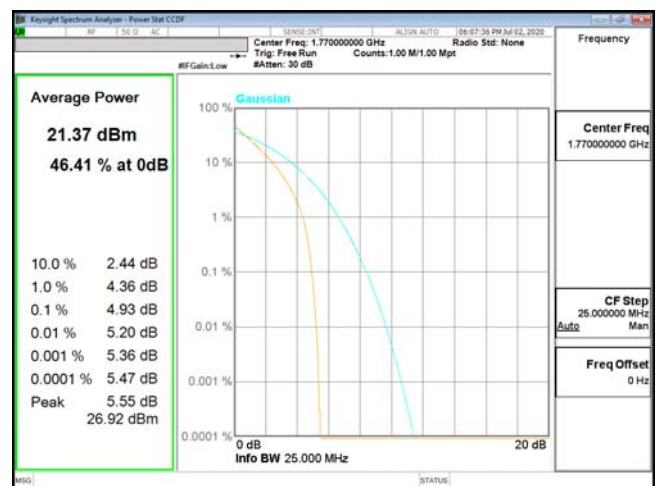
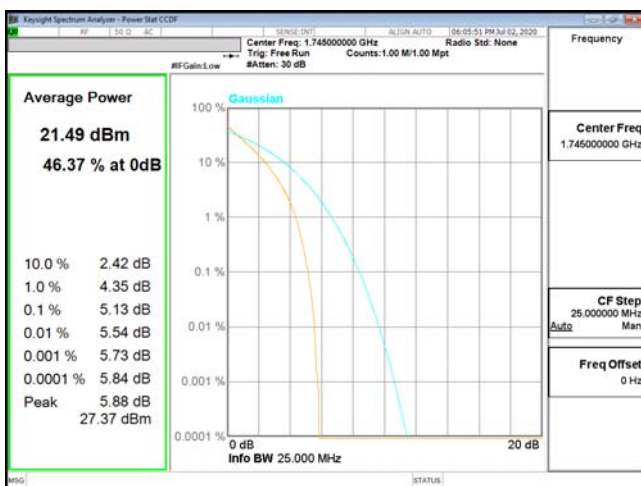
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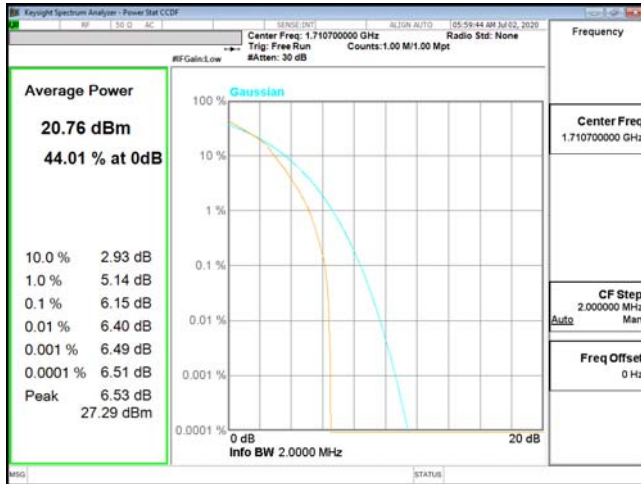
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PTAR-ENDC\_66A\_n5-QPSK\_20M\_CH132072\_1720(100,0)

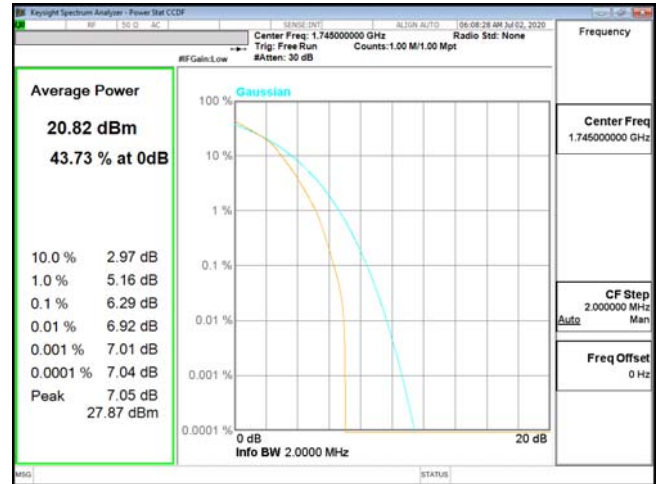


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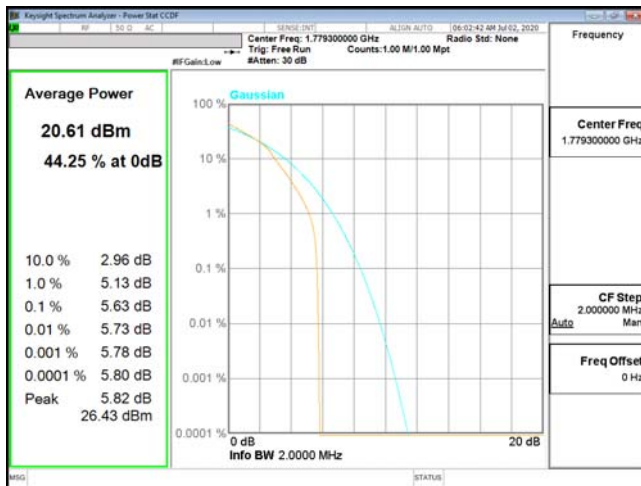
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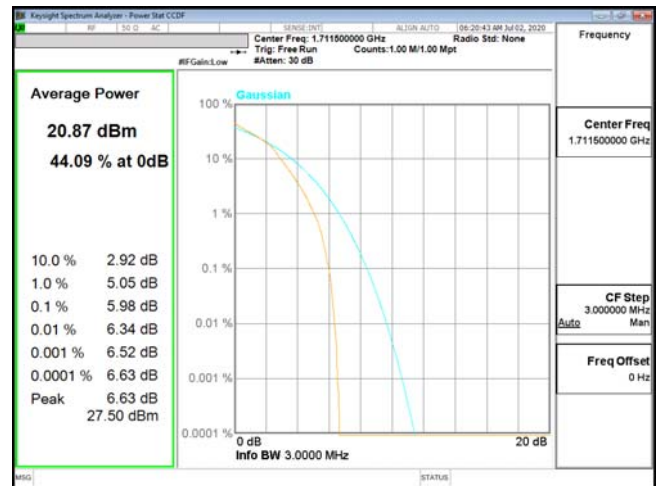
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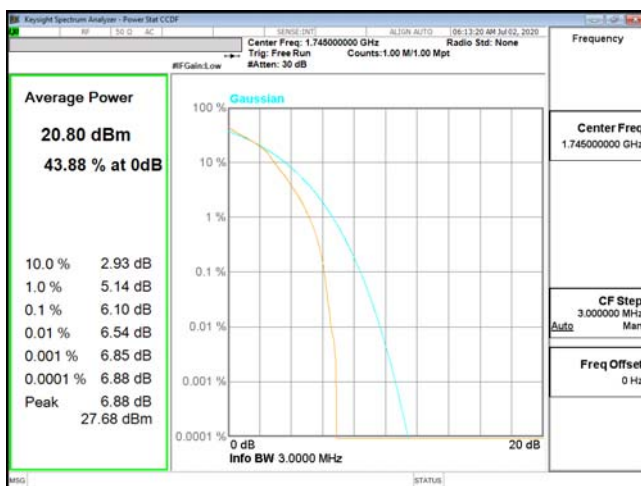
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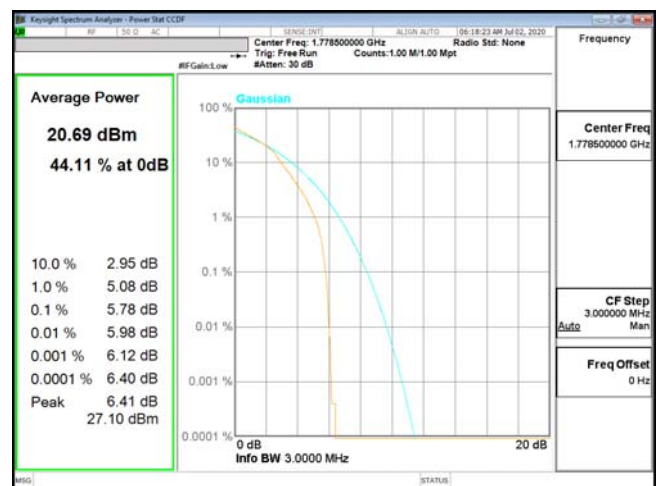
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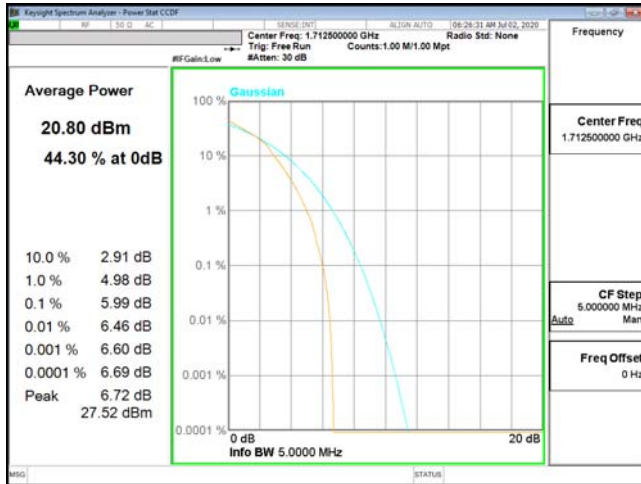
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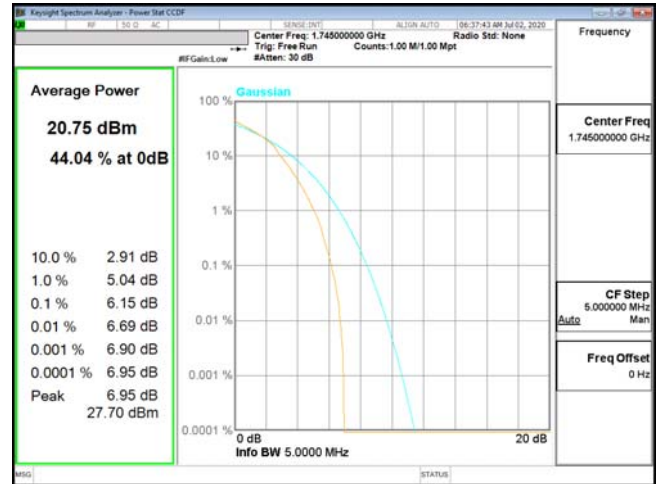
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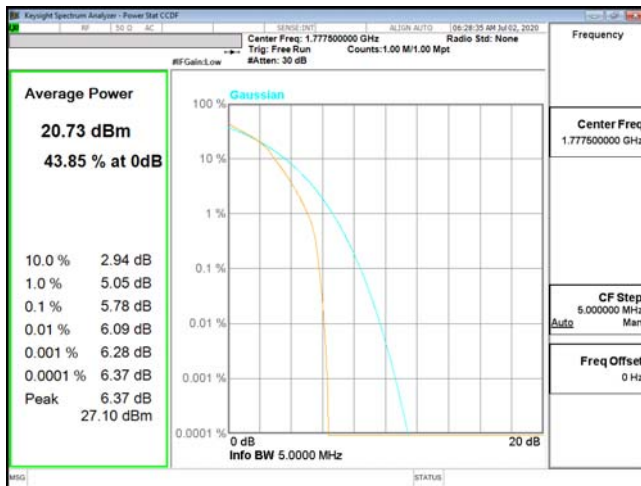
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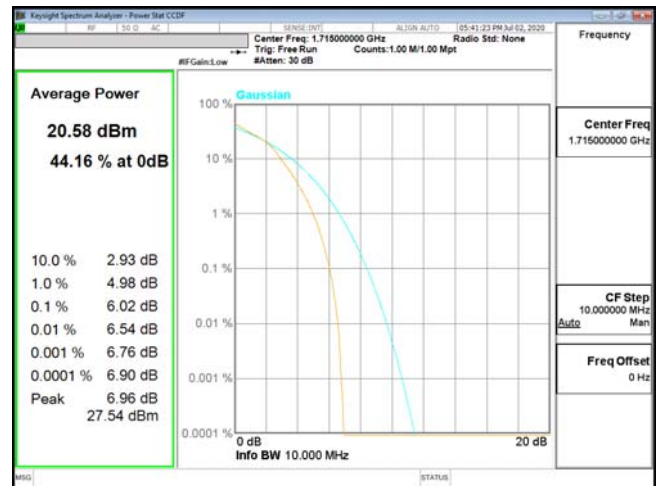
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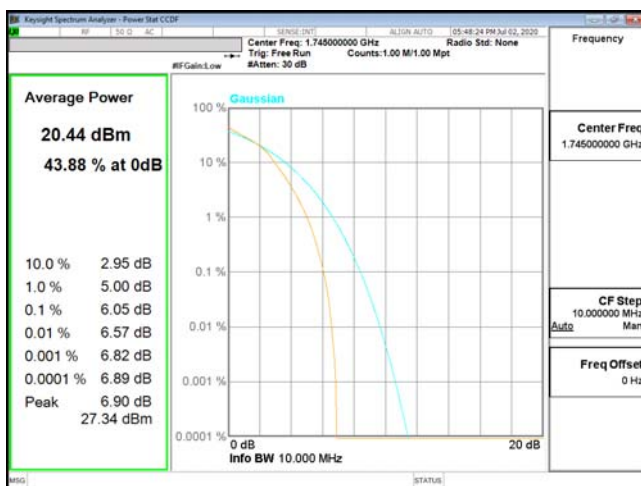
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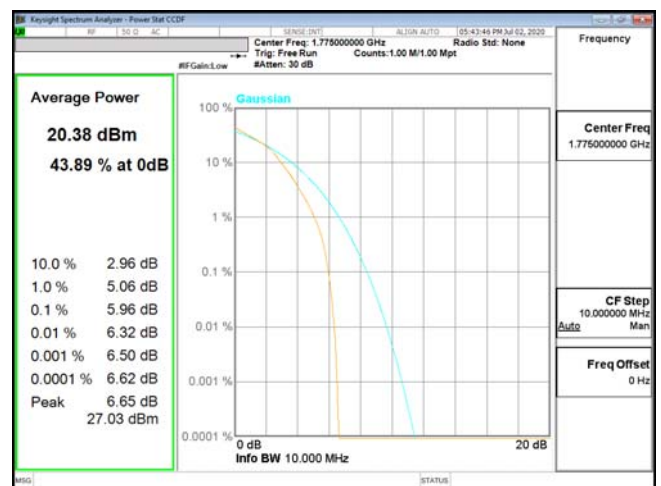
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PTAR-ENDC\_66A\_n5-16QAM\_10M\_CH132022\_1715(50,0)

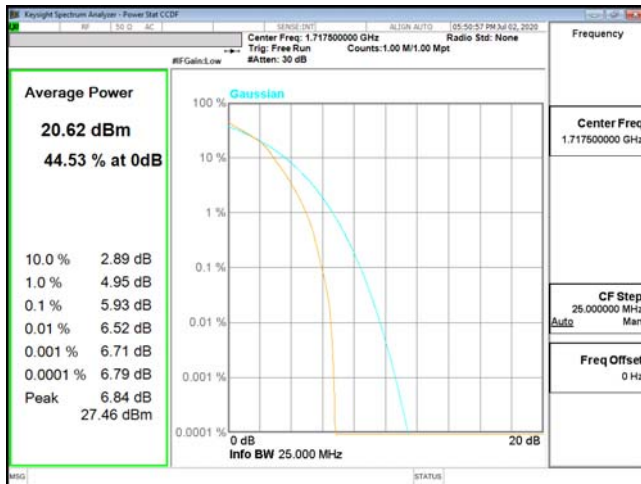


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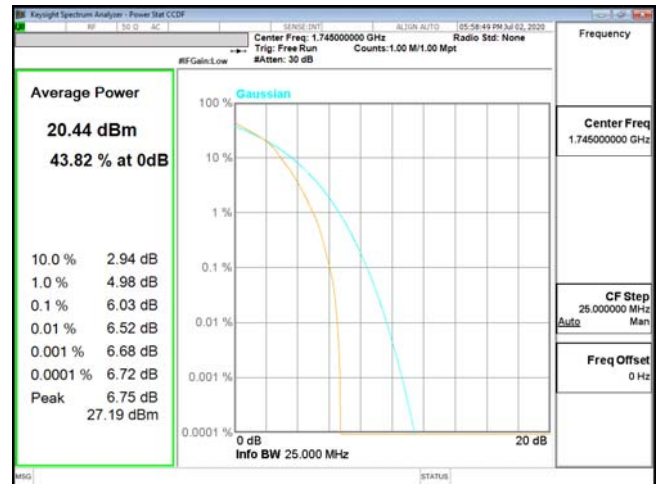


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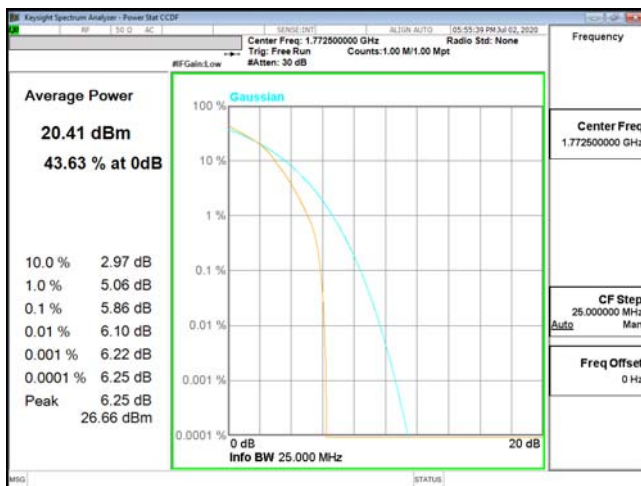




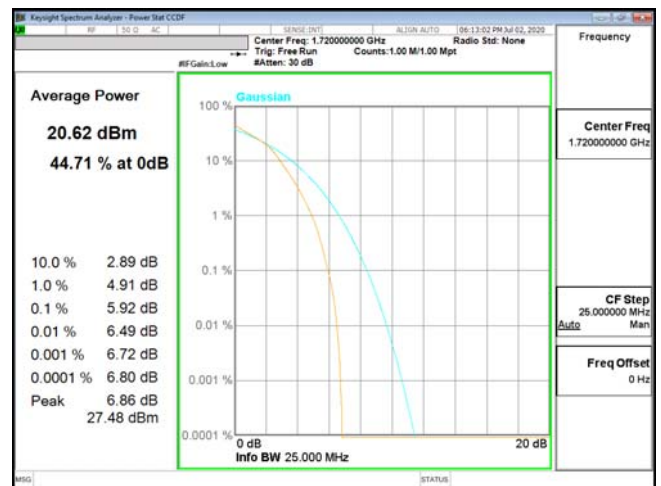
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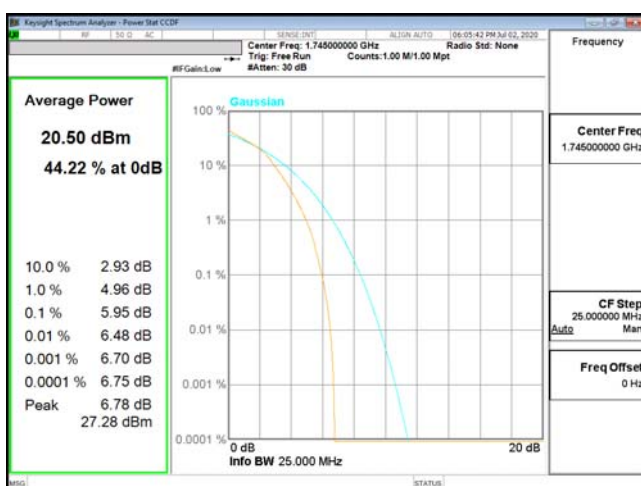
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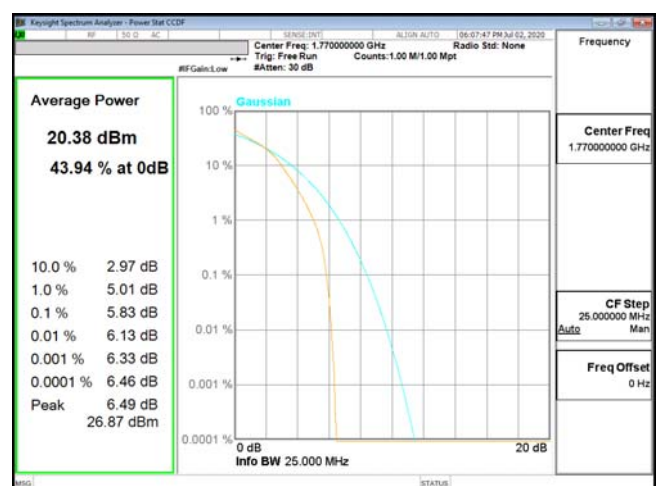
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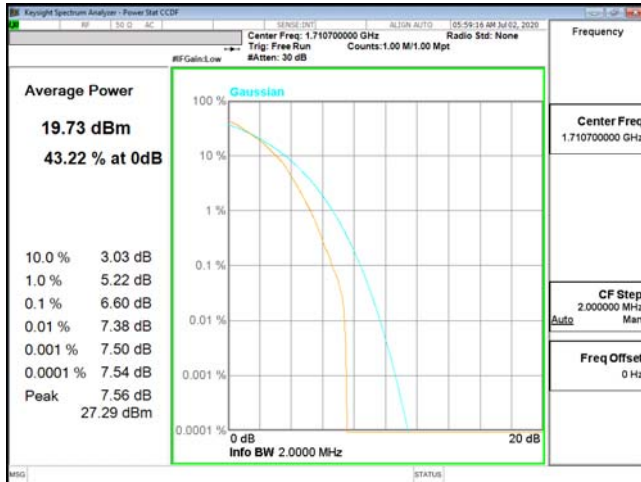
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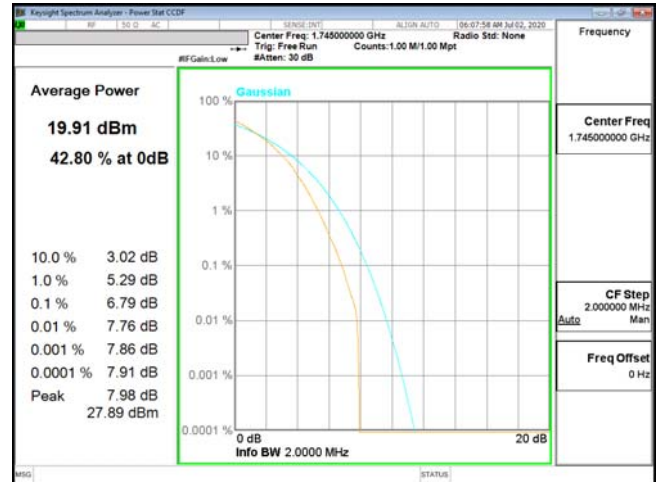
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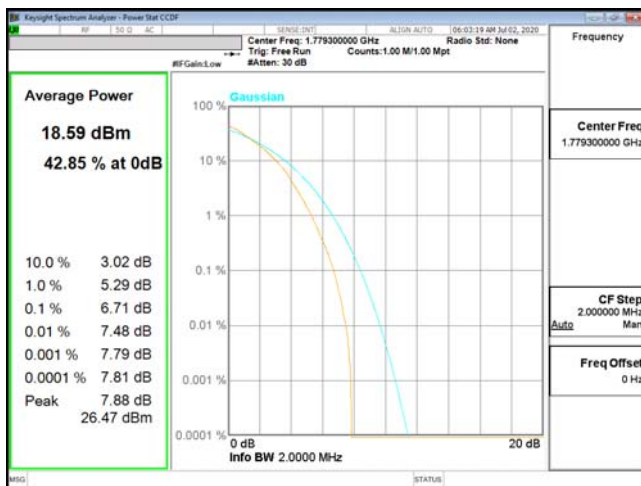
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PTAR-ENDC\_66A\_n5-64QAM\_1.4M\_CH131979\_1710.7(6,0)



PTAR-ENDC\_66A\_n5-64QAM\_1.4M\_CH132322\_1745(6,0)



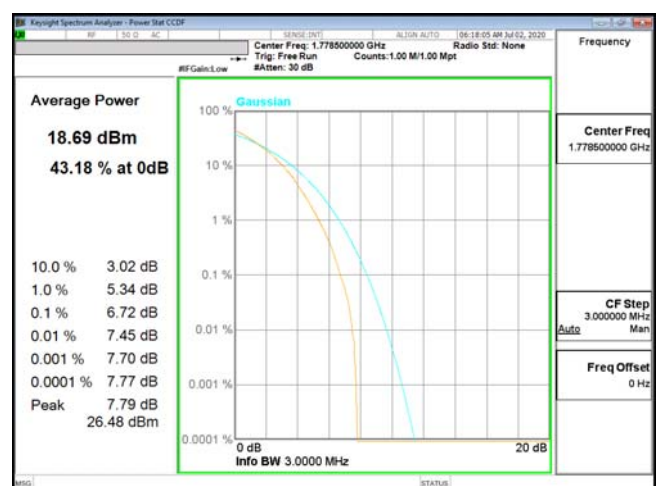
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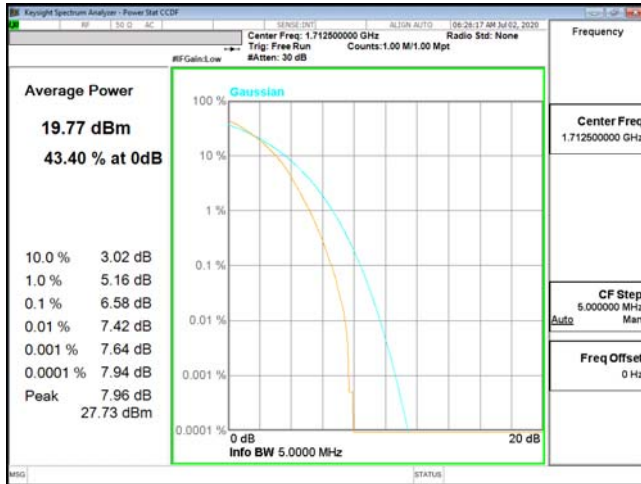
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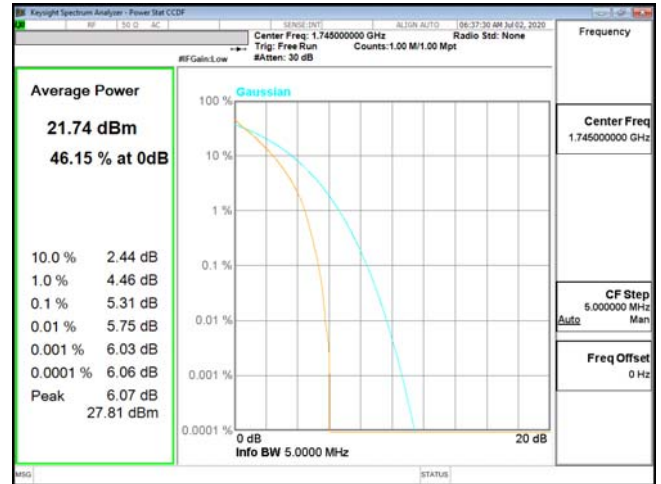
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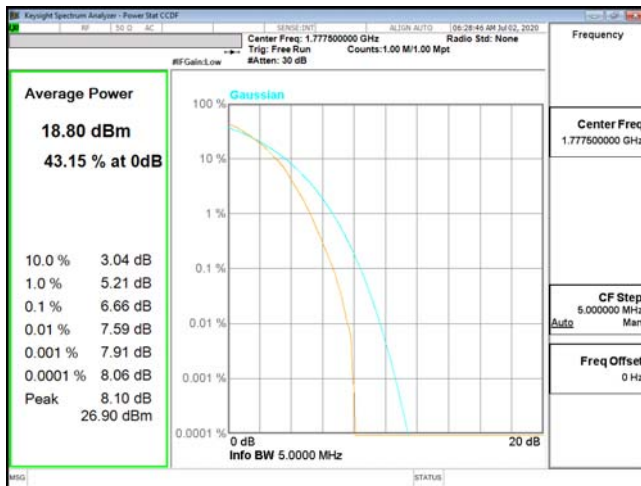
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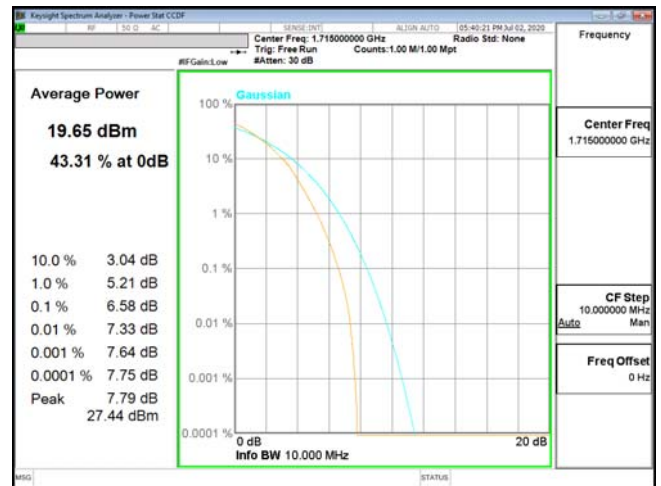
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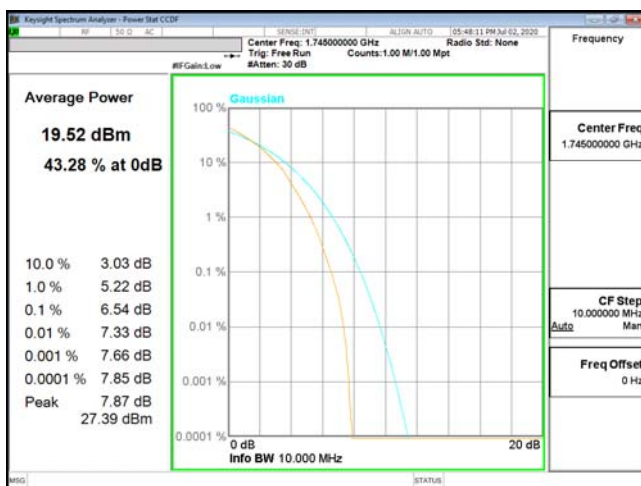
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PTAR-ENDC\_66A\_n5-64QAM\_5M\_CH132647\_1772.5(25,0)



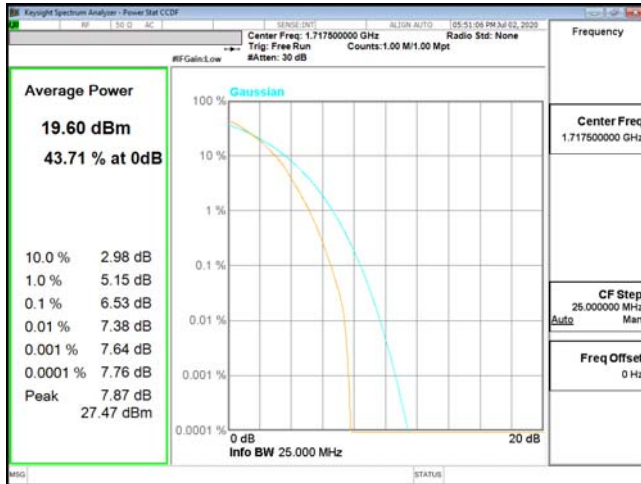
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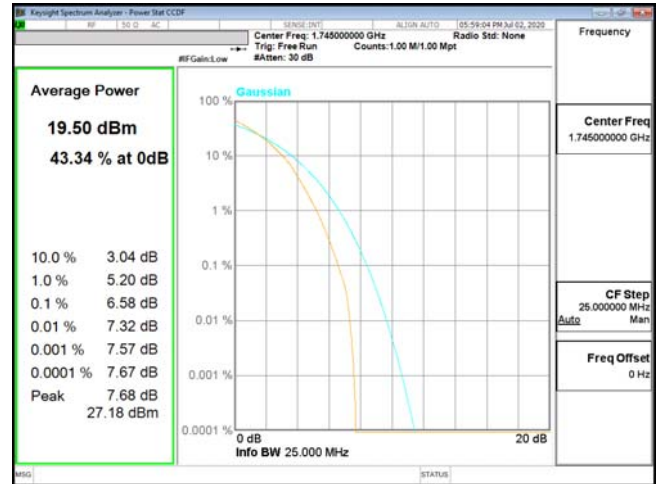
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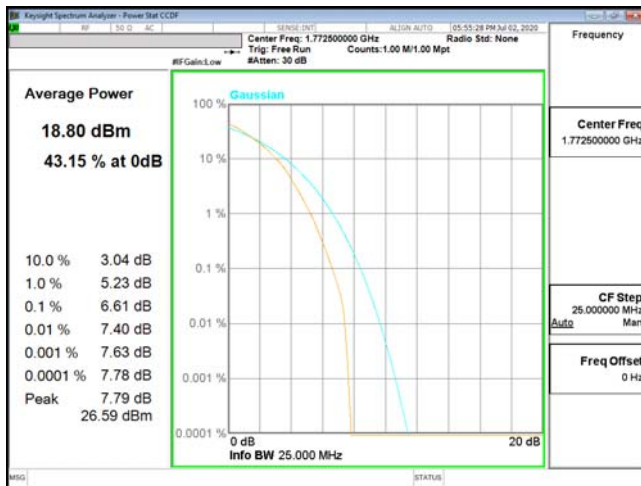
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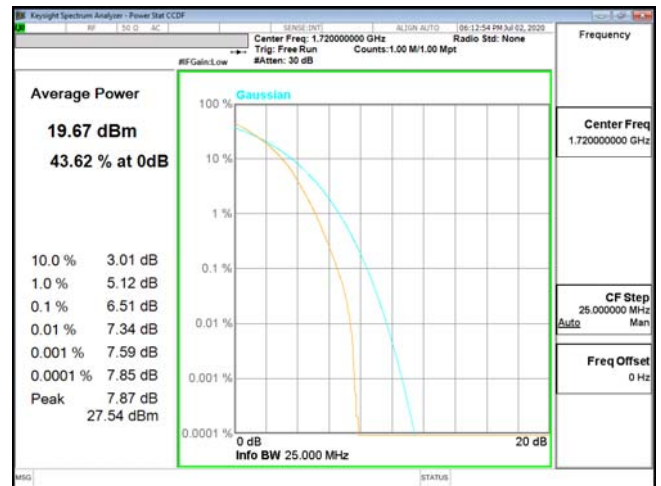
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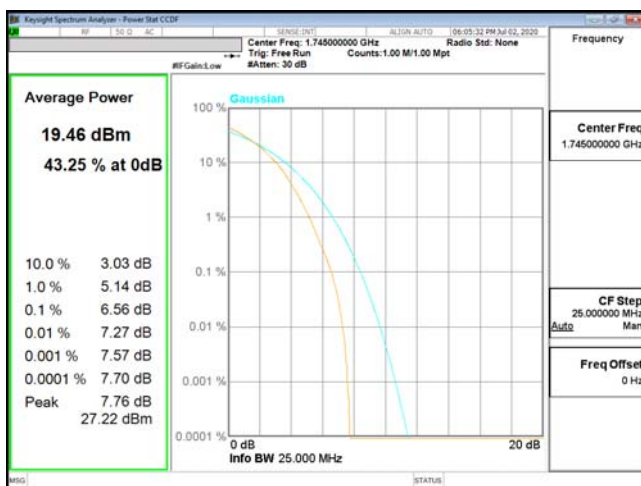
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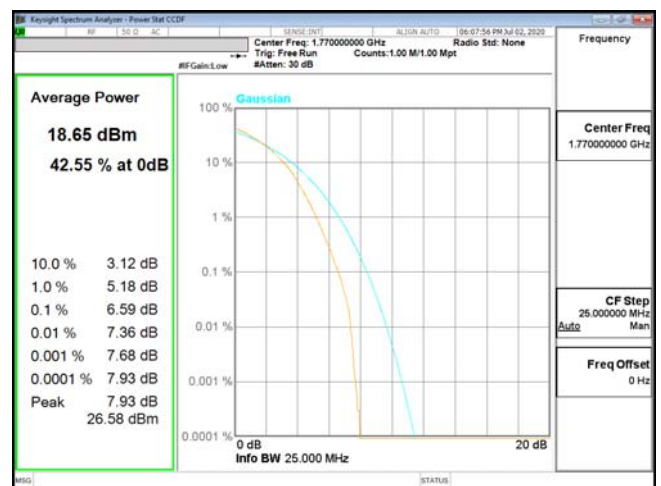
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PTAR-ENDC\_66A\_n5-64QAM\_20M\_CH132072\_1720(100,0)



PTAR-ENDC\_66A\_n5-64QAM\_20M\_CH132322\_1745(100,0)

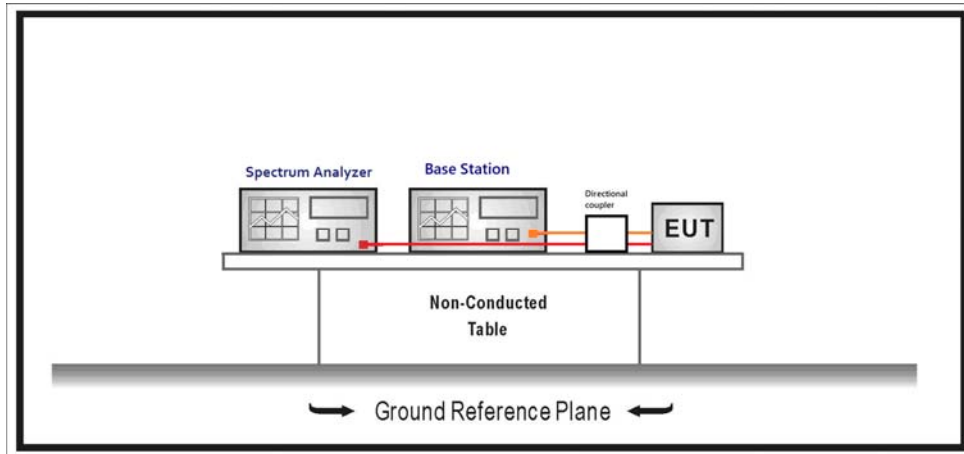


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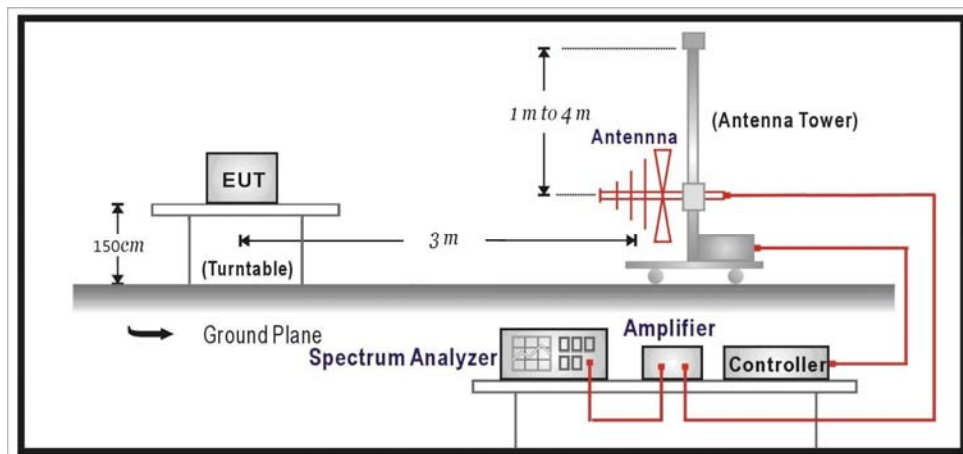
## 6. Spurious Emissions

### 6.1. Test Setup

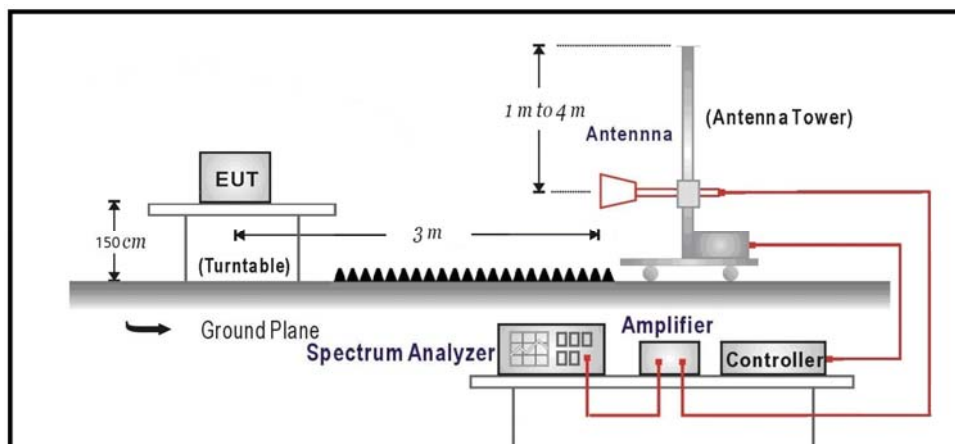
Conducted Spurious Measurement: below 1GHz



Radiated Spurious Measurement: below 1GHz



Radiated Spurious Measurement: above 1GHz



## 6.2. Test Procedure

### Conducted Spurious Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- c) EUT Communicate with CMW500, then select a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.
- e) The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10<sup>th</sup> harmonic.

### Radiated Spurious Measurement:

- a) The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
- b) The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- c) The table was rotated 360 degrees to determine the position of the highest spurious emission.
- d) The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- e) Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 1MHz, Sweep 500ms, Taking the record of maximum spurious emission.
- f) A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- g) Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- h) Taking the record of output power at antenna port.
- i) Repeat step 7 to step 8 for another polarization.
- j)  $EIRP = SG - \text{Cable loss} + \text{Antenna Gain}$

## 6.3. Test Method

### Conducted Spurious Measurement:

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause6.1  
ANSI C63.26-2015 Sub-clause 5.7

### Radiated Spurious Measurement:

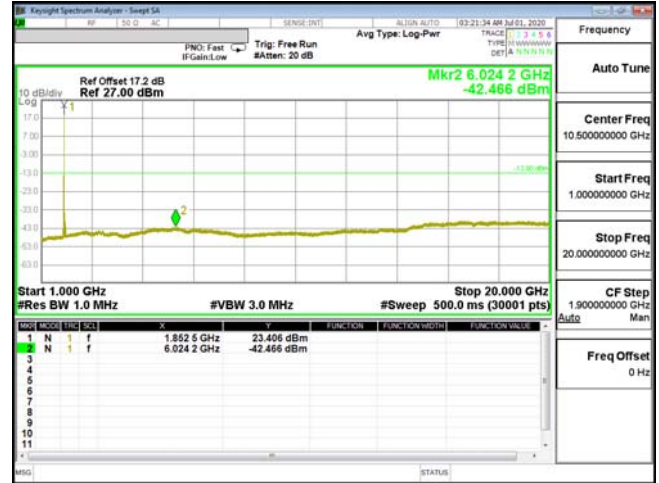
KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause5.8  
ANSI C63.26-2015 Sub-clause 5.5.3.2

### 6.4. Test Result

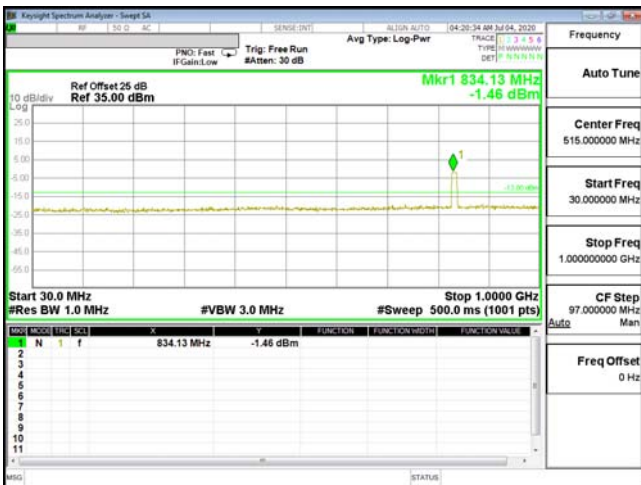
Product	LV55		
Test Item	Spurious Emissions (Conducted)		
Date of Test	2020/07/02	Test Site	SR12-H
Test Condition	ENDC n2	Test Range	30MHz ~ 20GHz



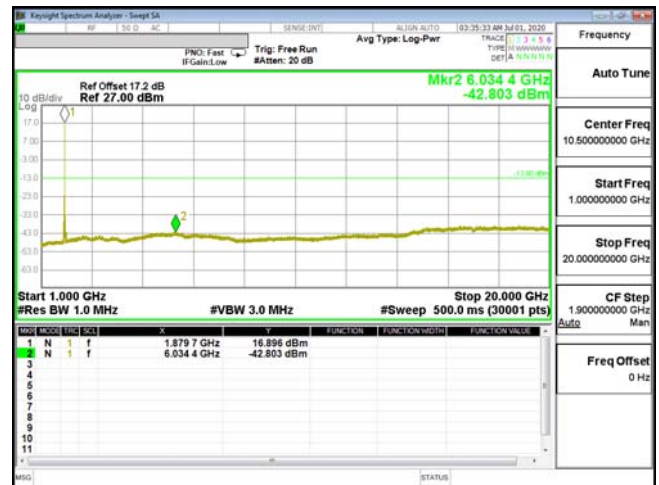
CSE-ENDC\_5A\_n2-PI2-BPSK\_5M\_CH370500\_1852.5(1,12)



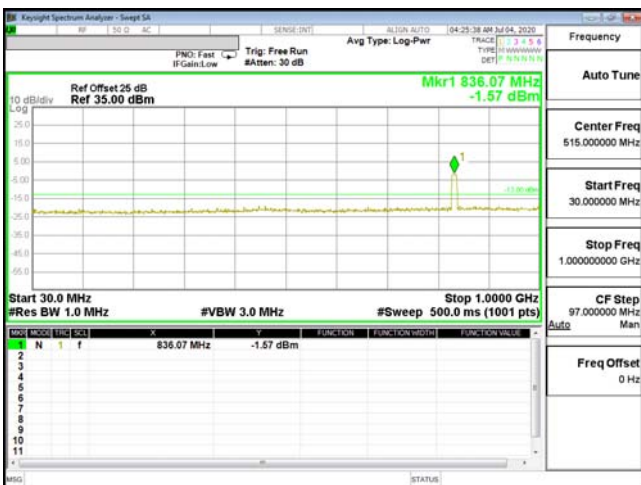
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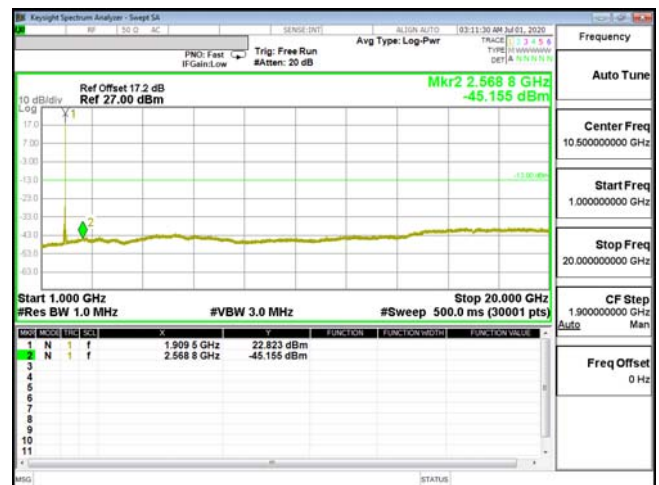
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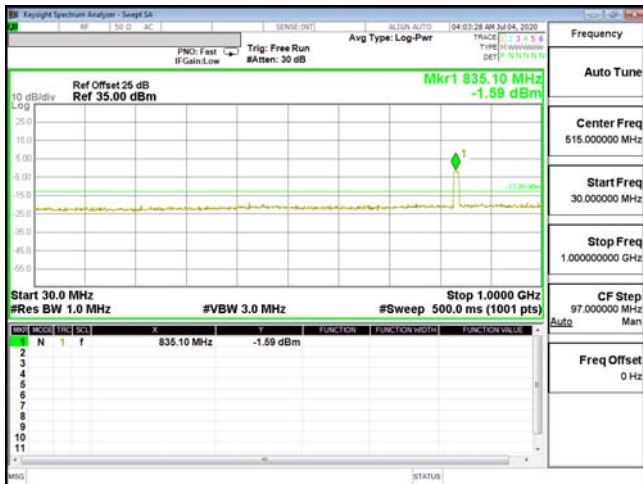
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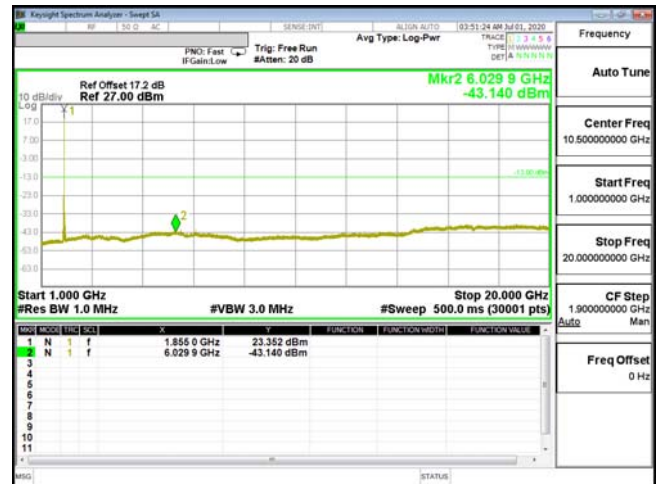
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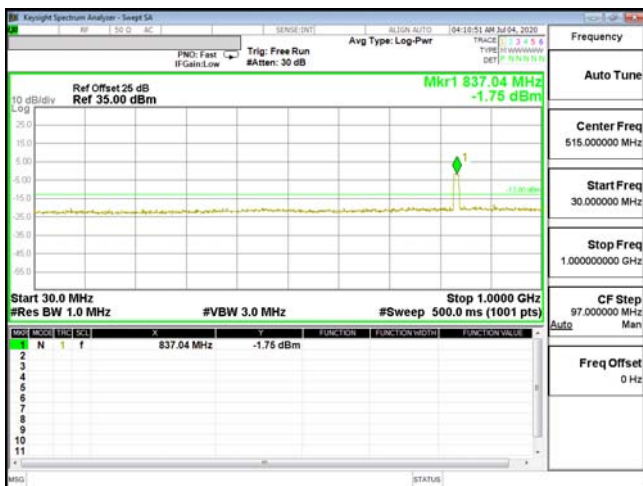
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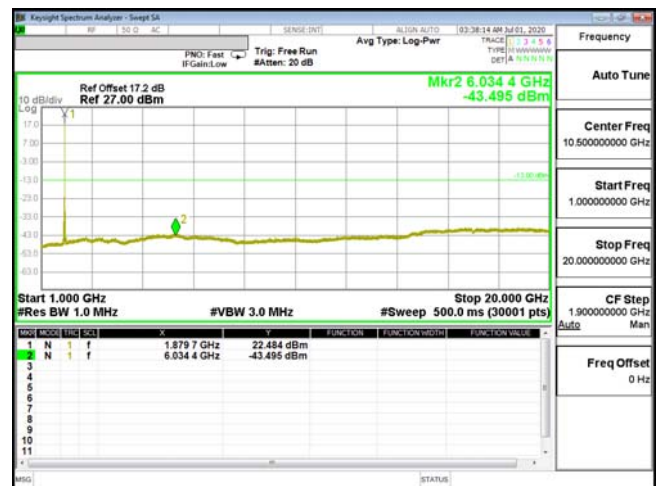
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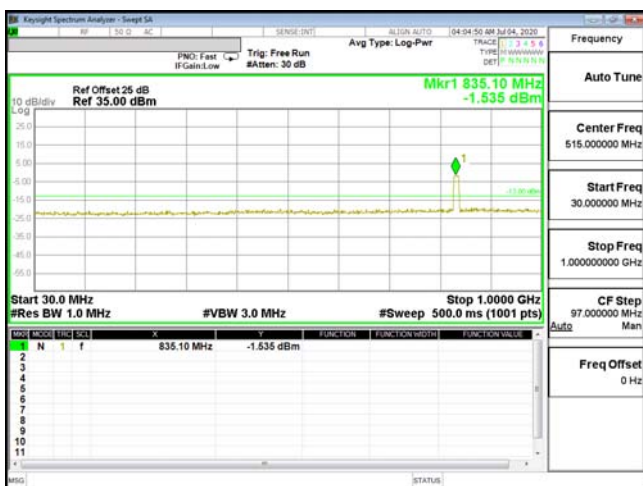
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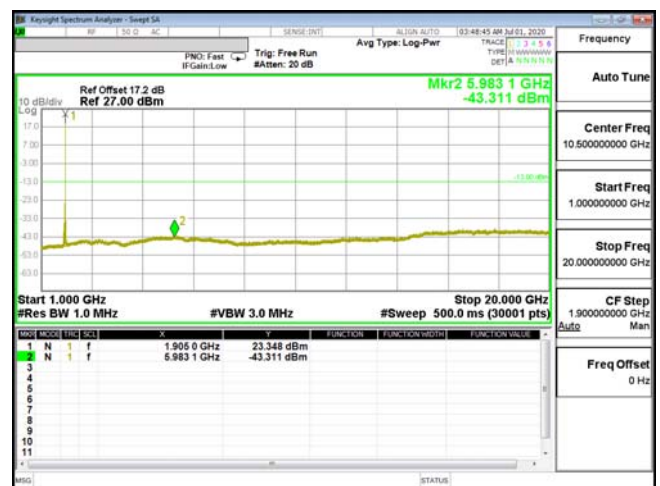
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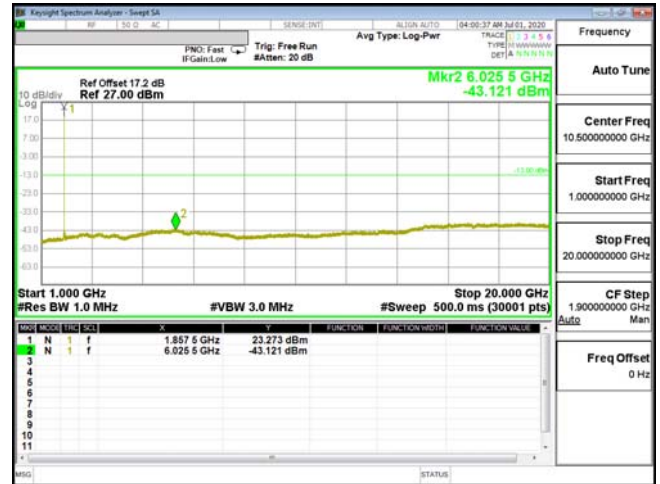
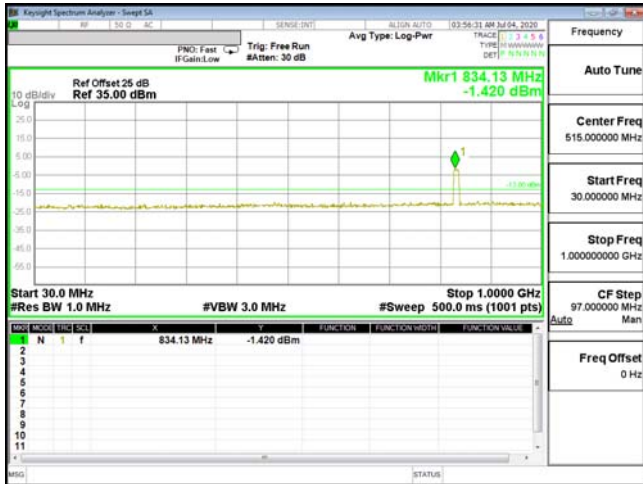


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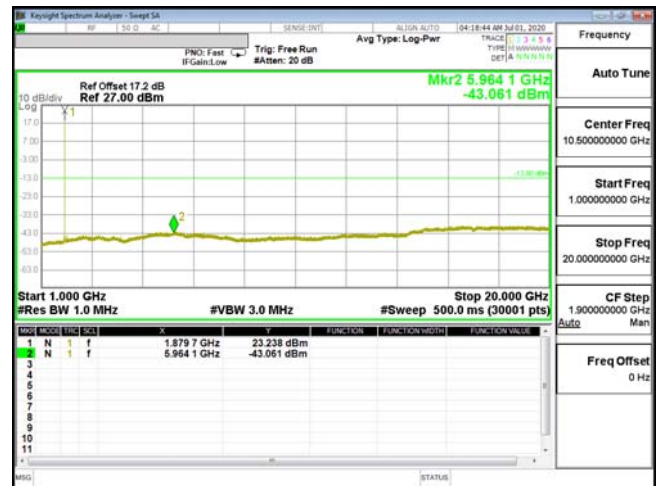
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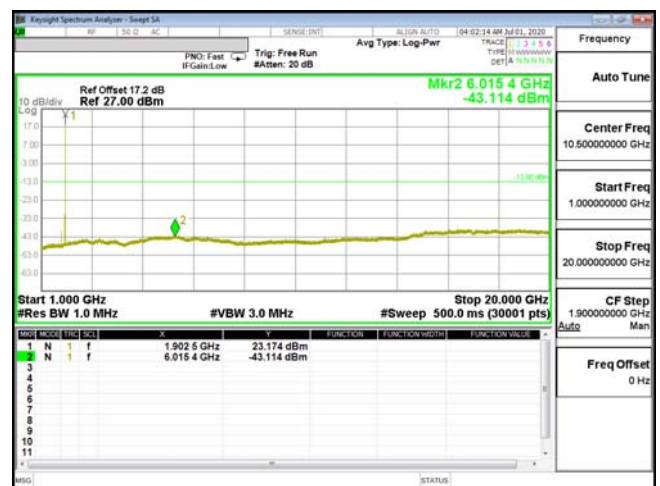
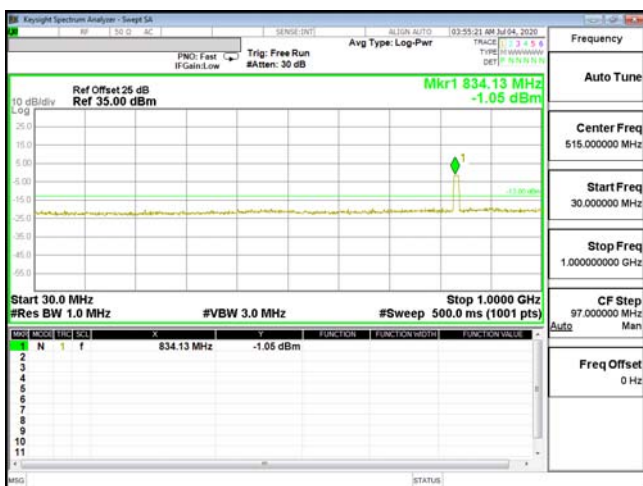
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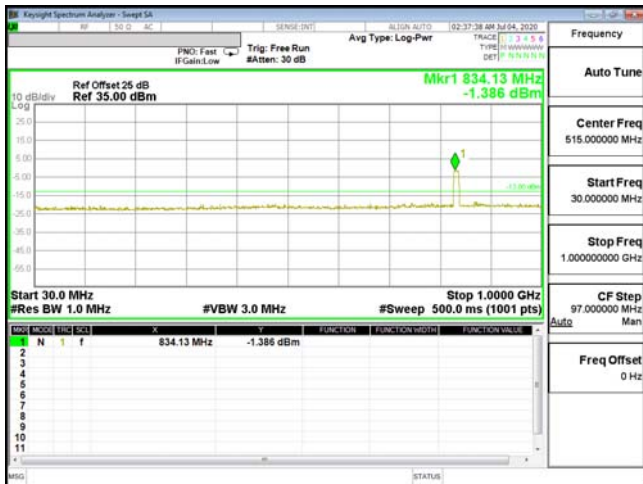
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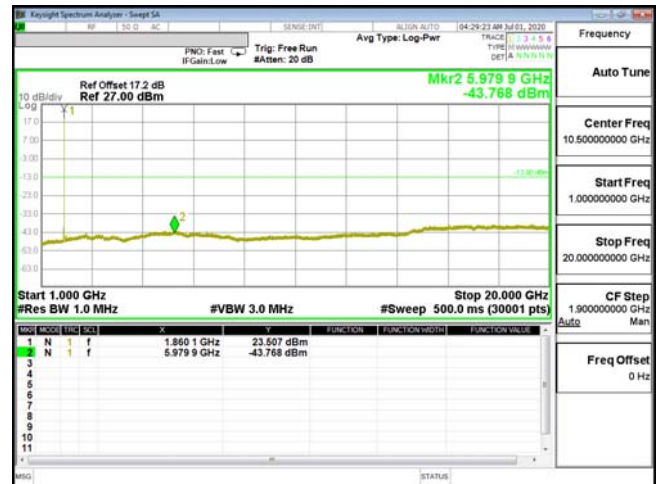


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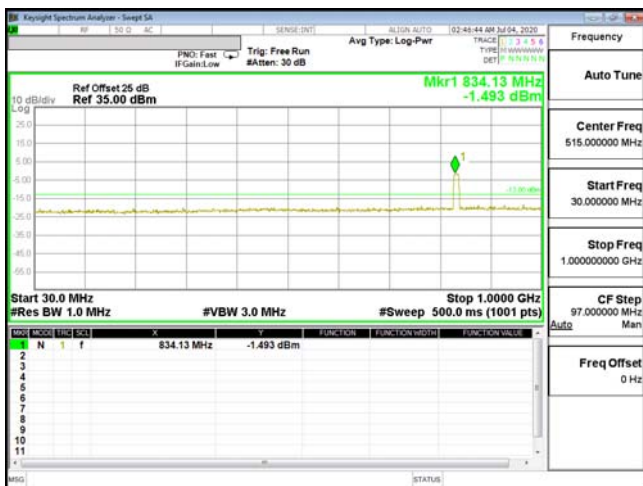
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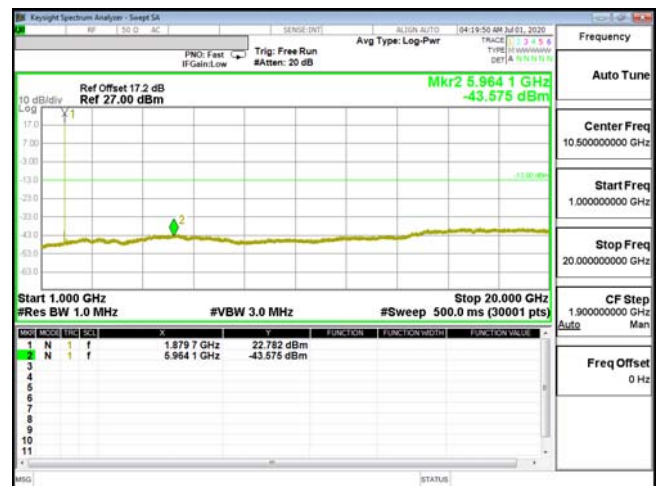
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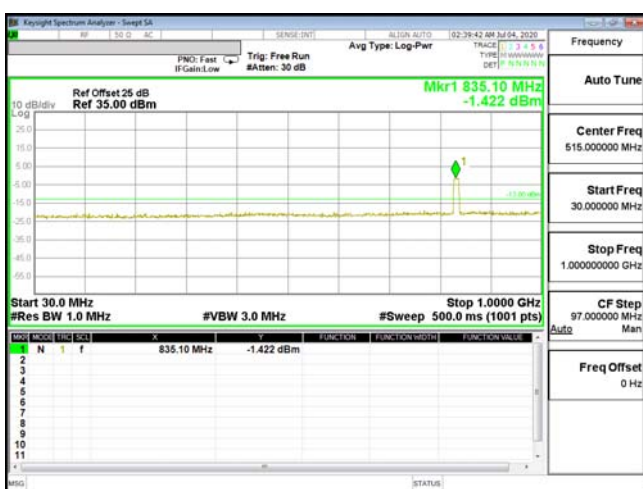
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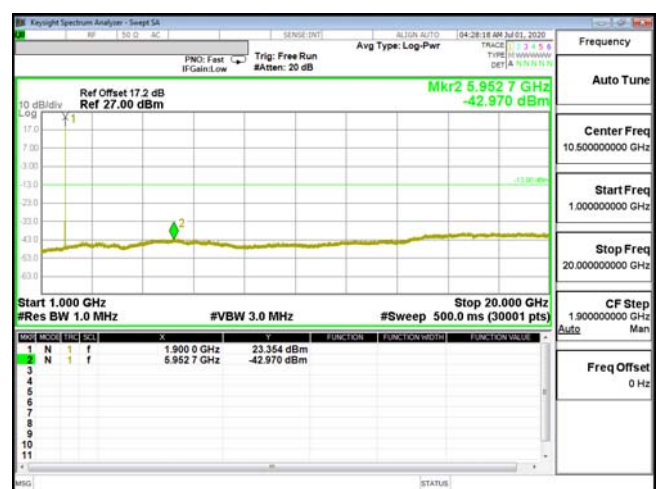
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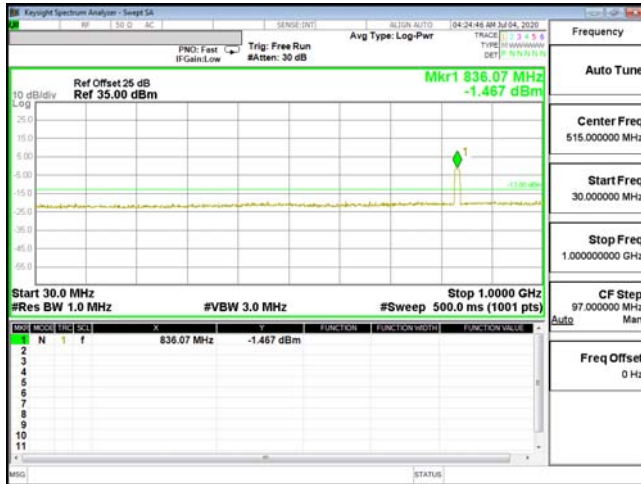
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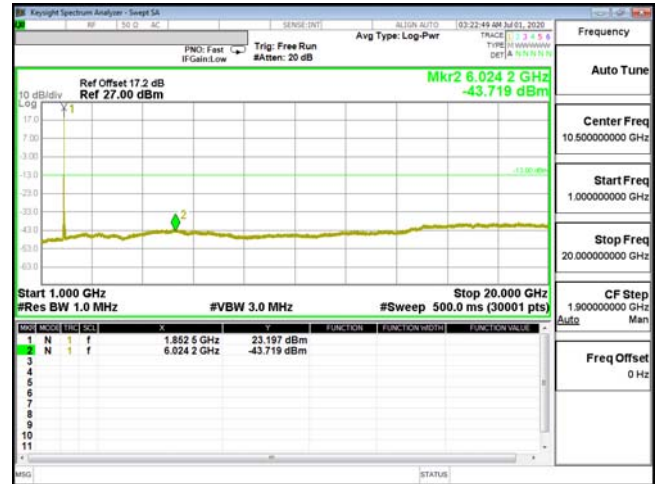
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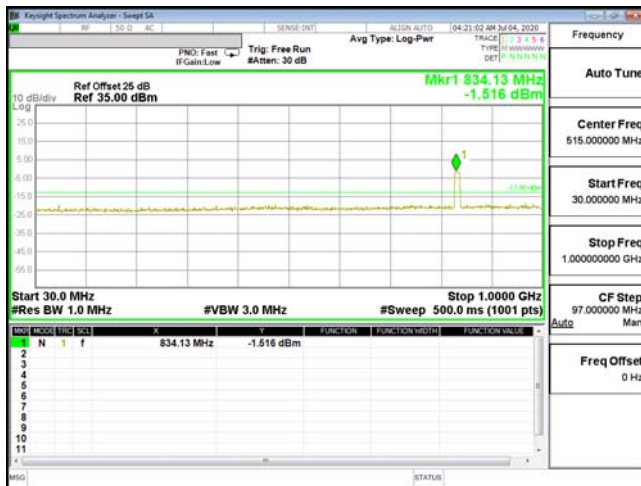
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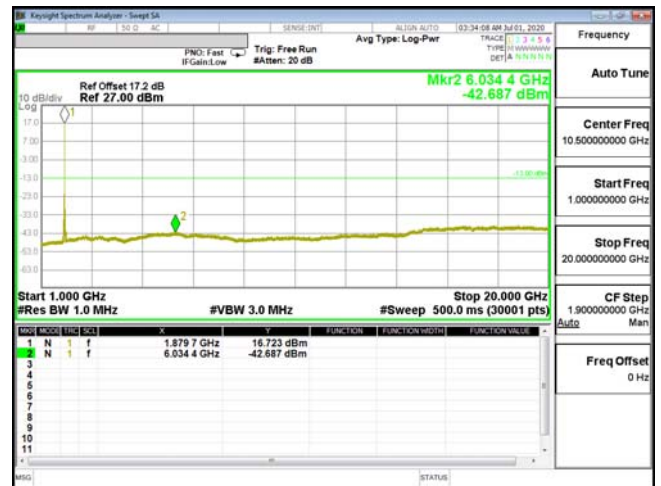
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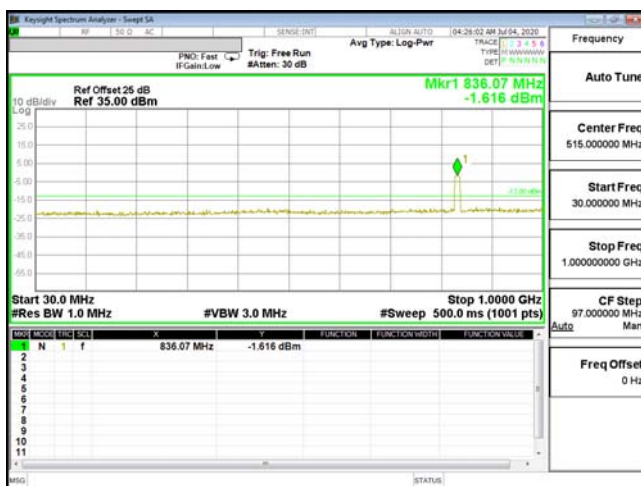
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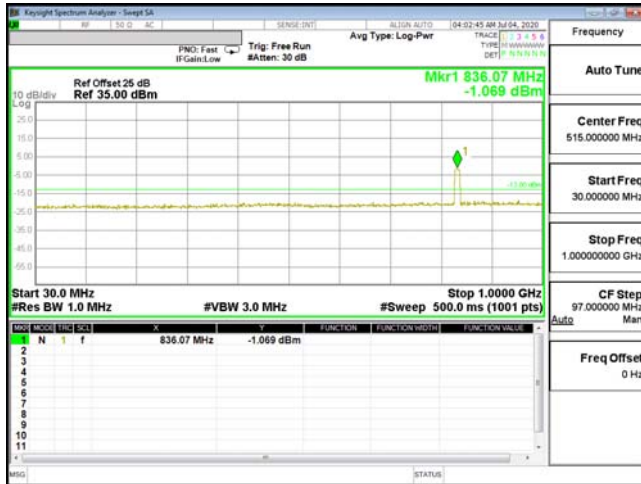
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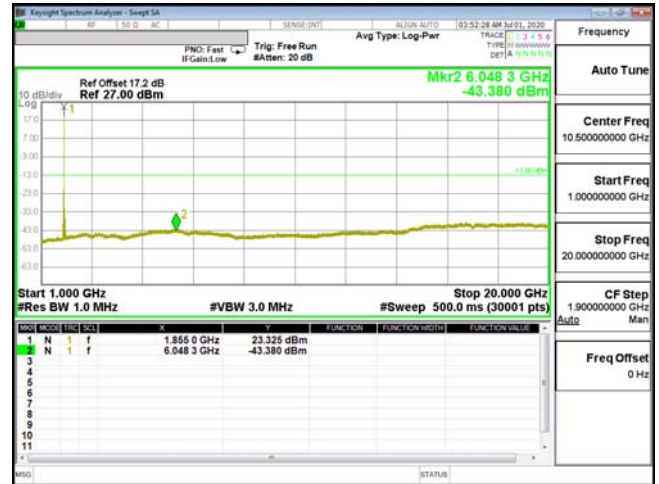
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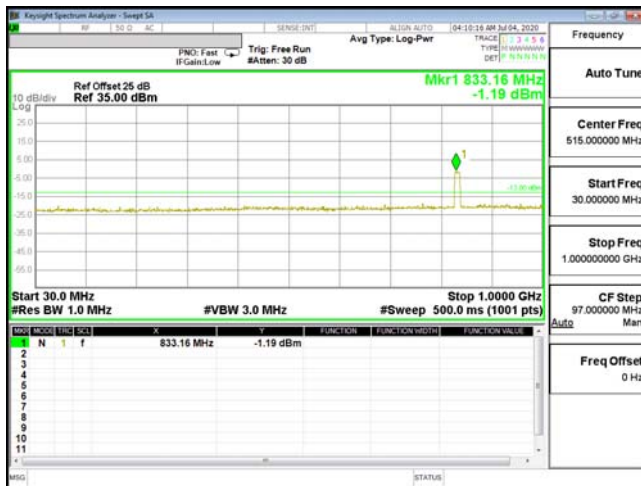
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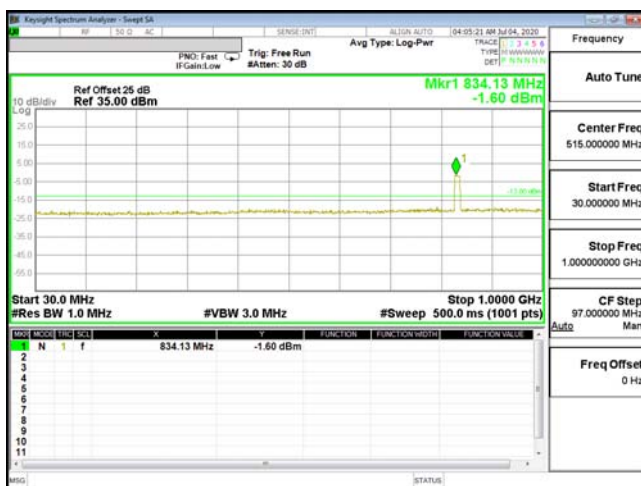
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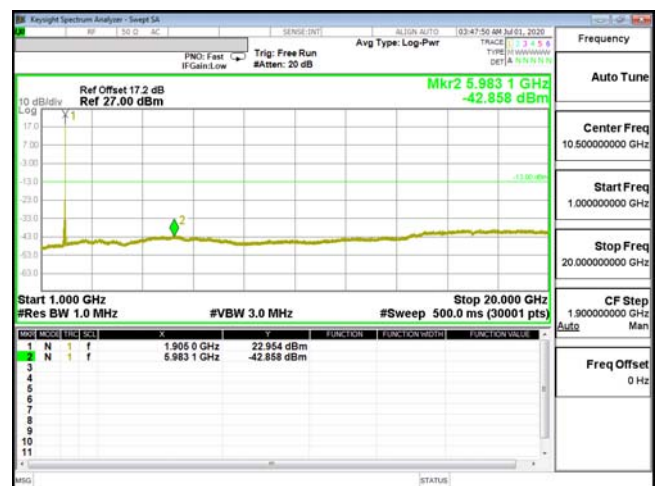
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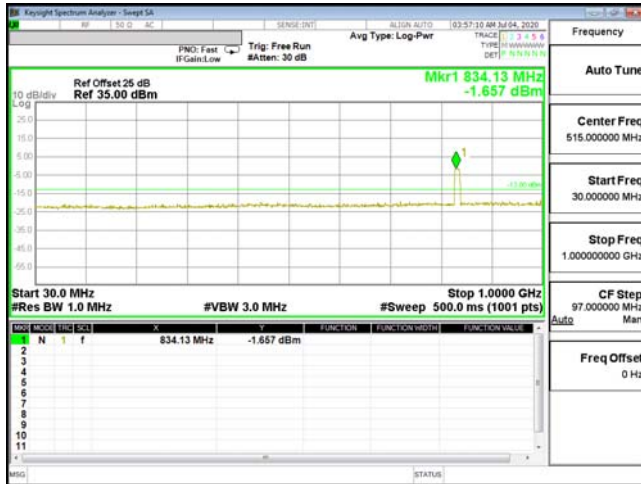
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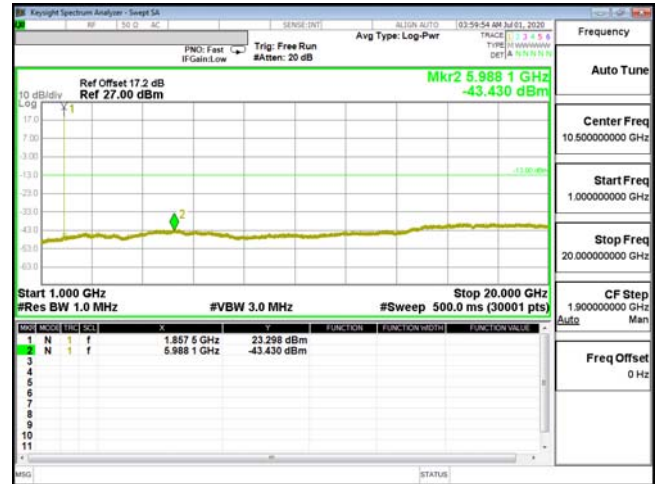
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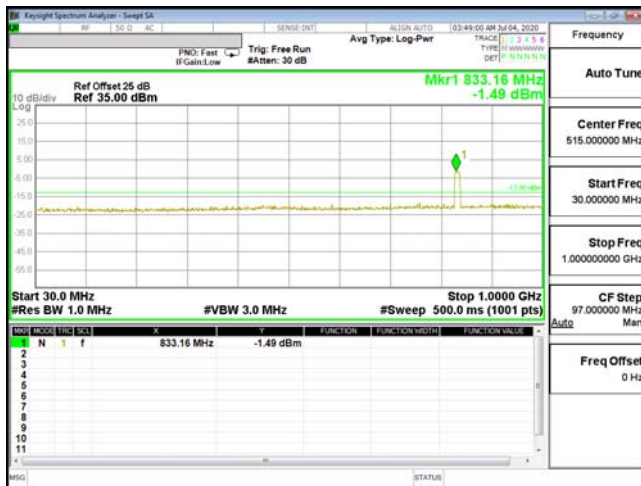
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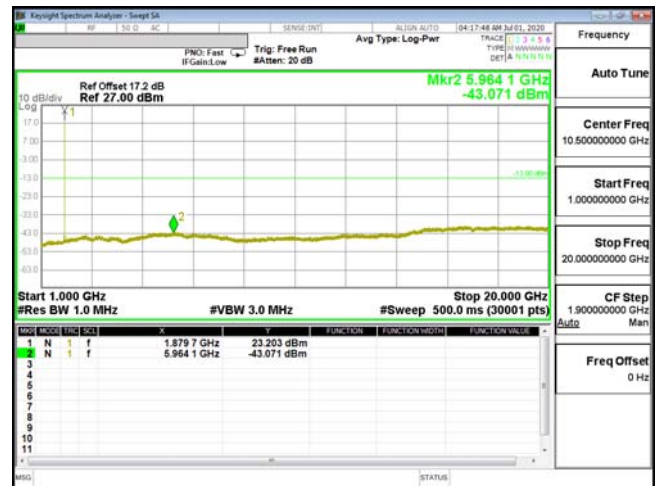
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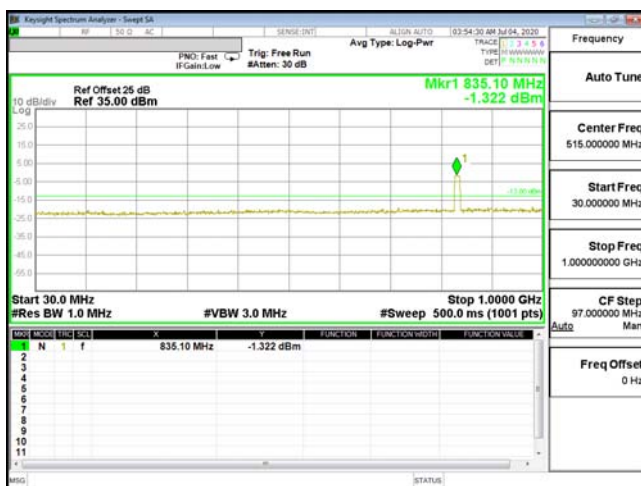
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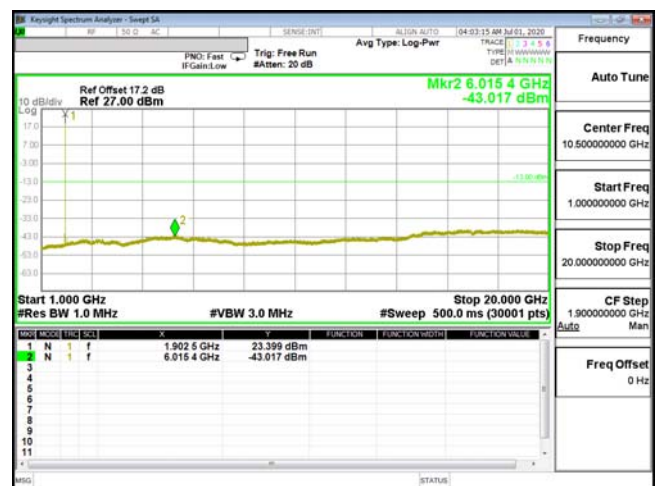
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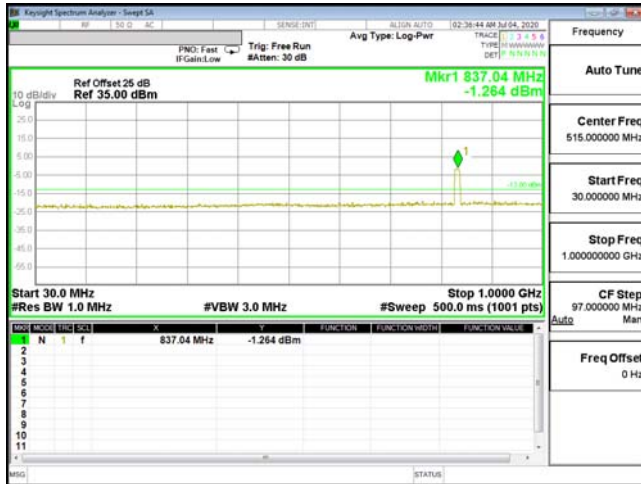
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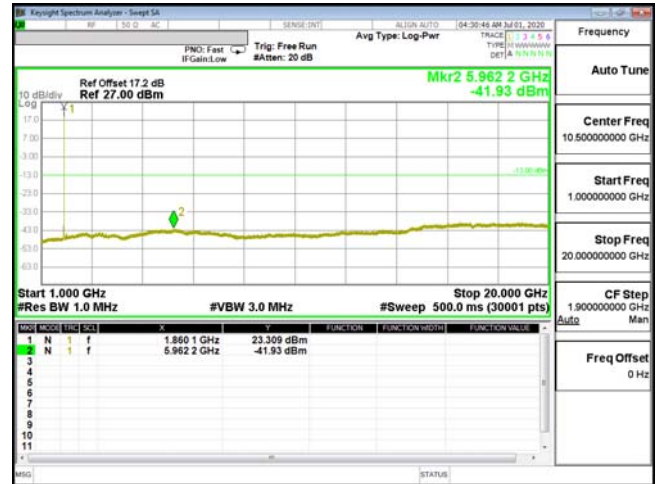
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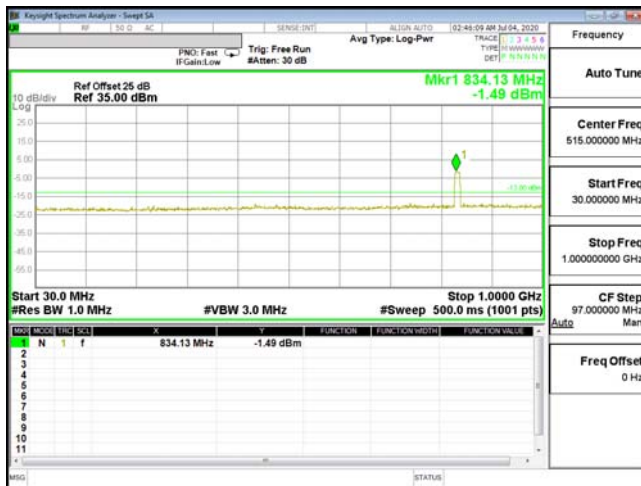
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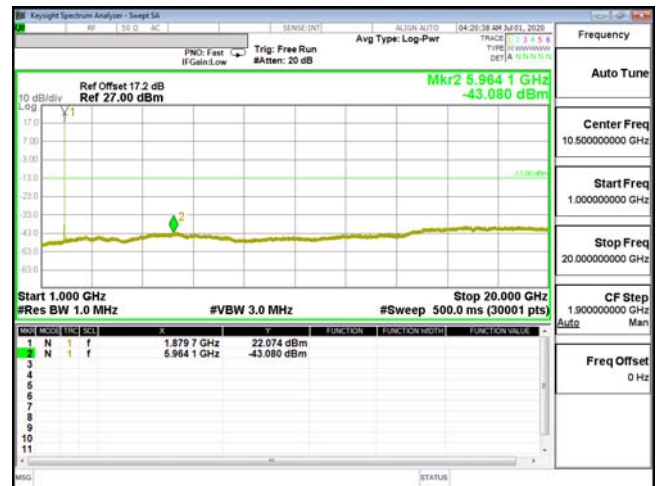
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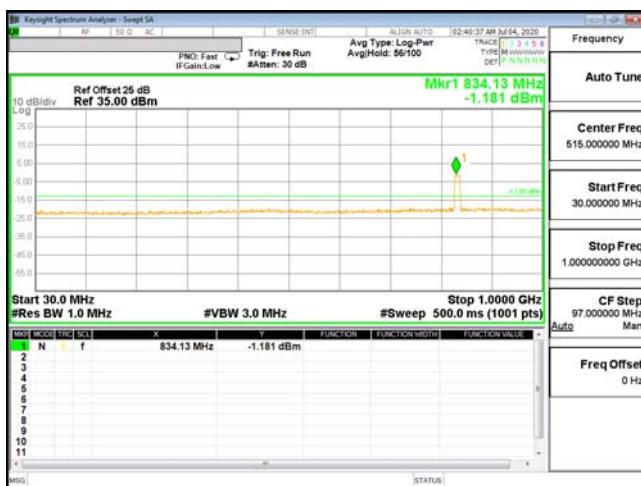
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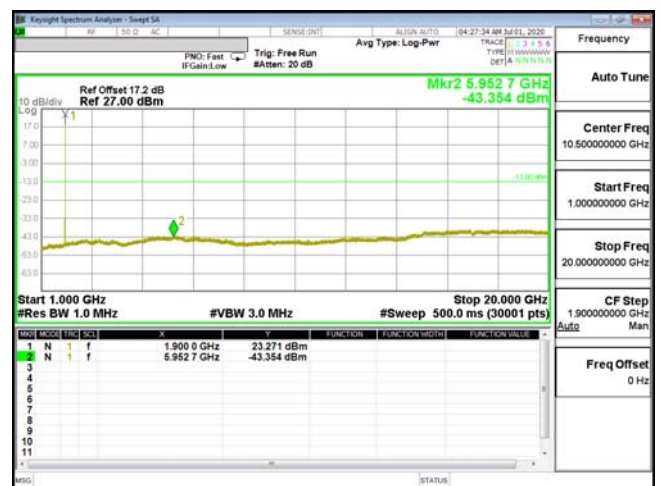
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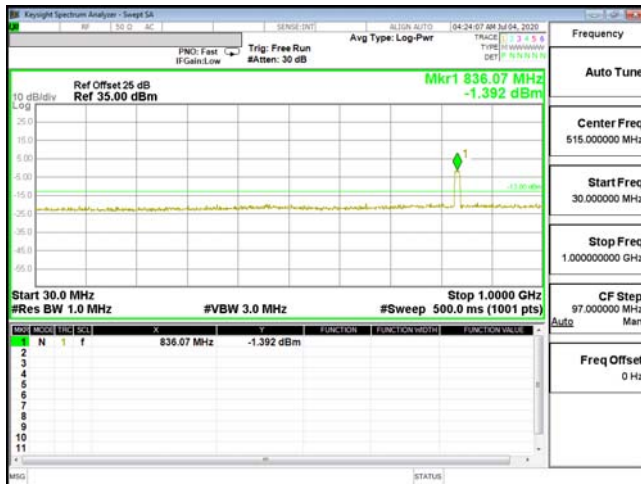
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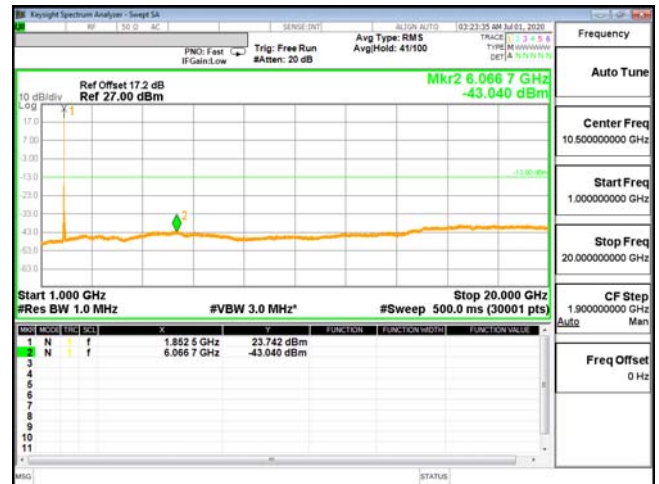
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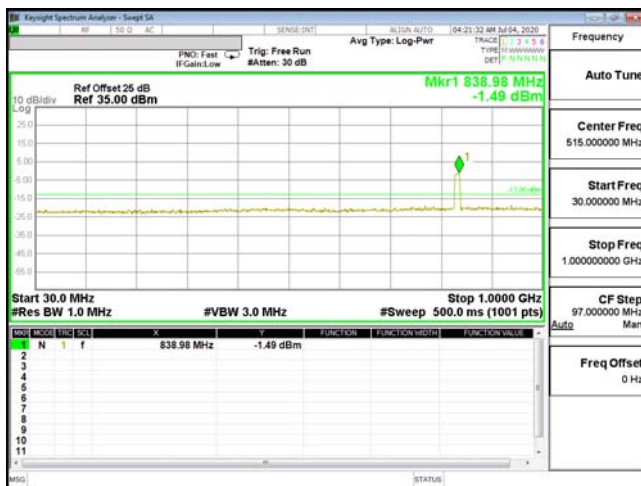
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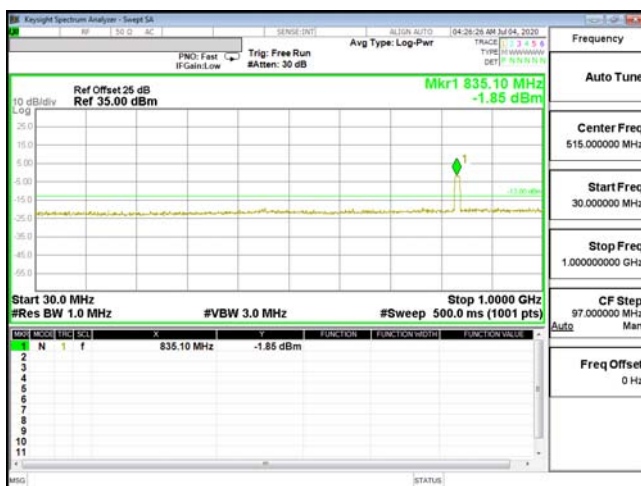
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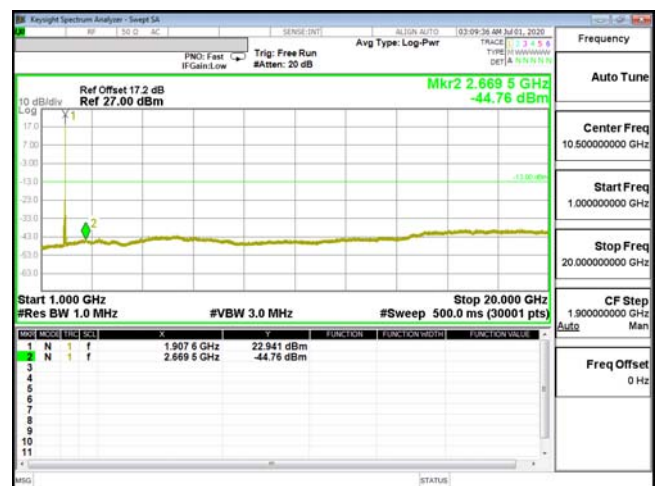
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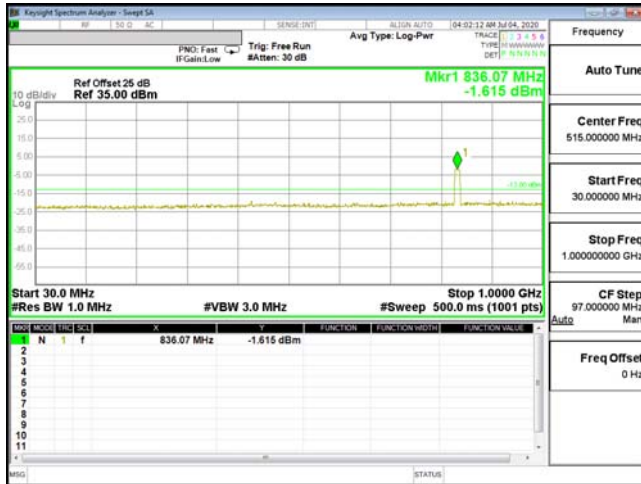
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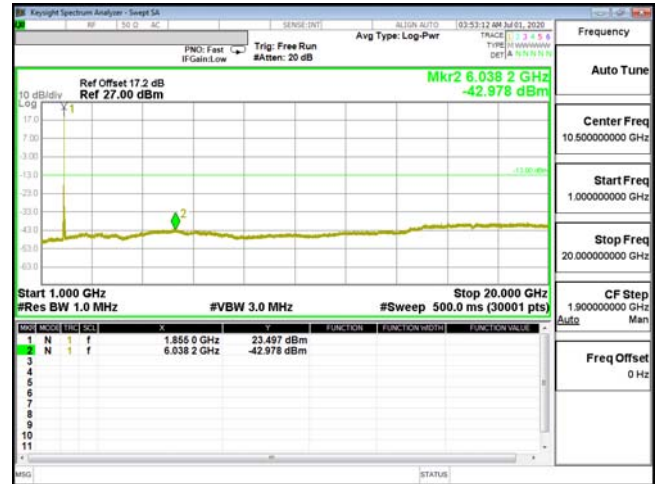
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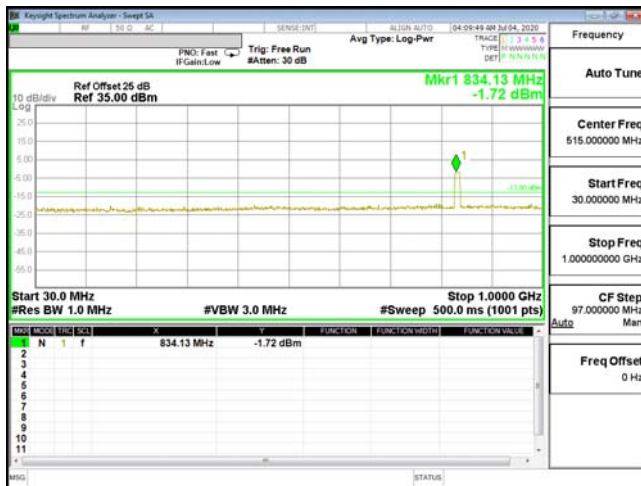
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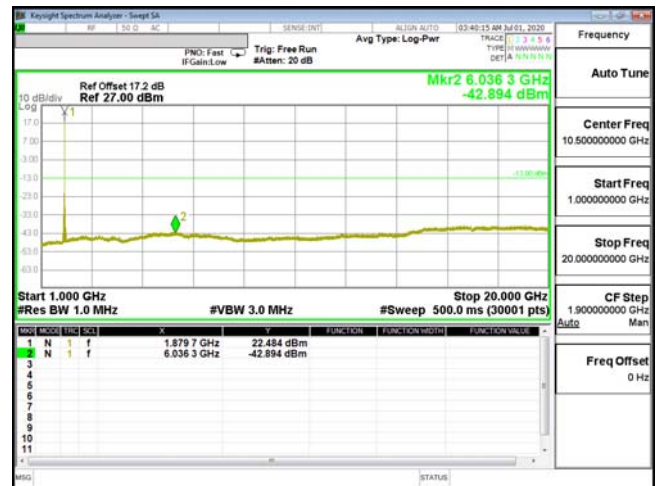
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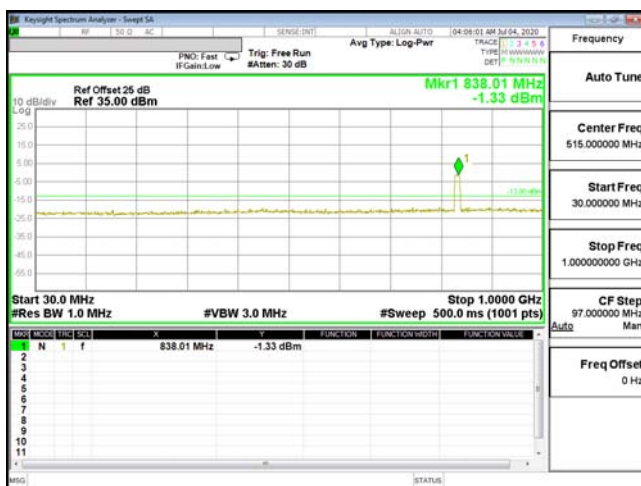
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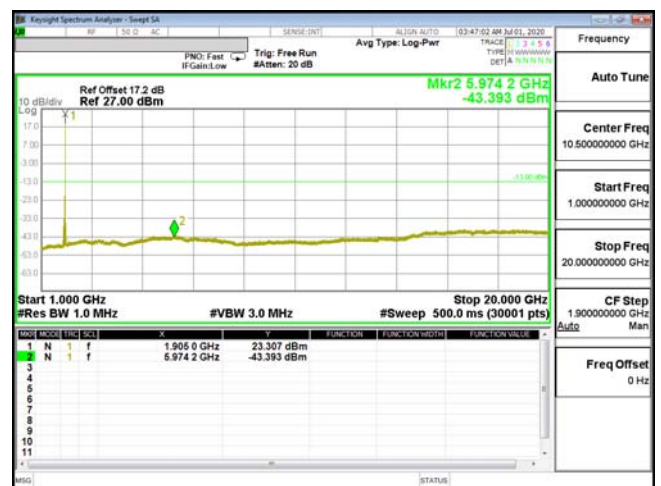
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CSE-ENDC\_5A\_n2-16QAM\_10M\_CH376000\_1880(1,26)



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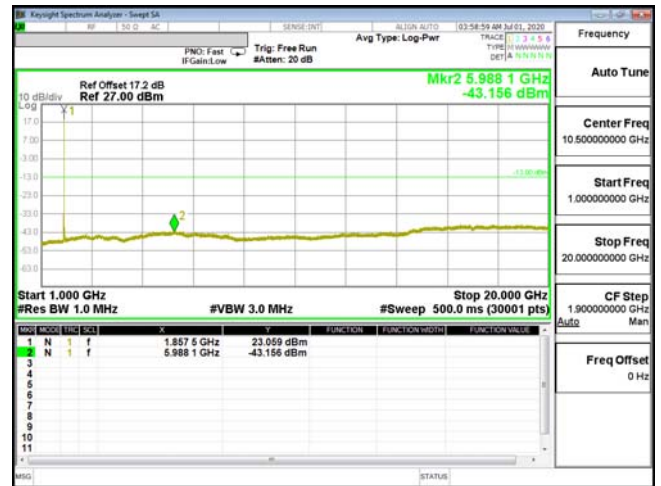


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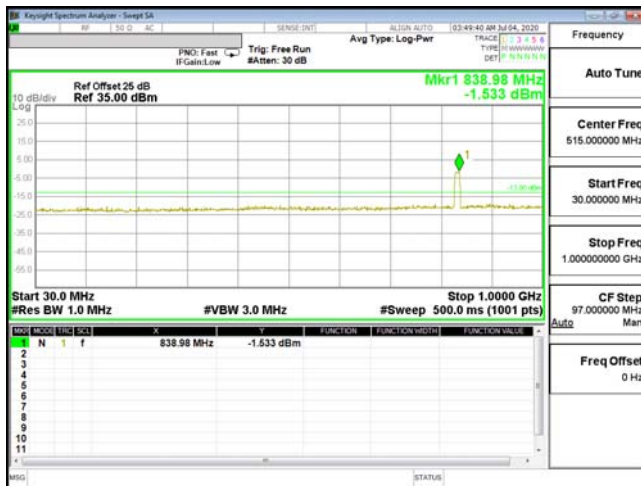




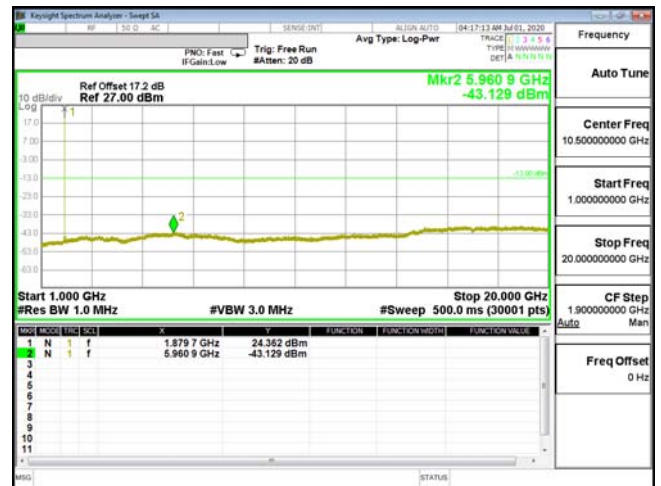
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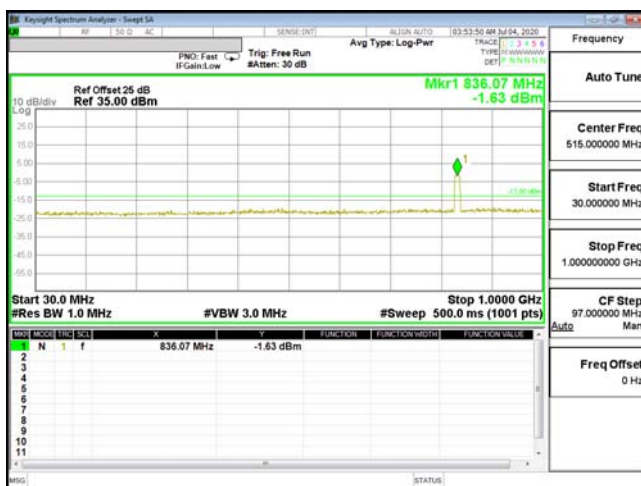
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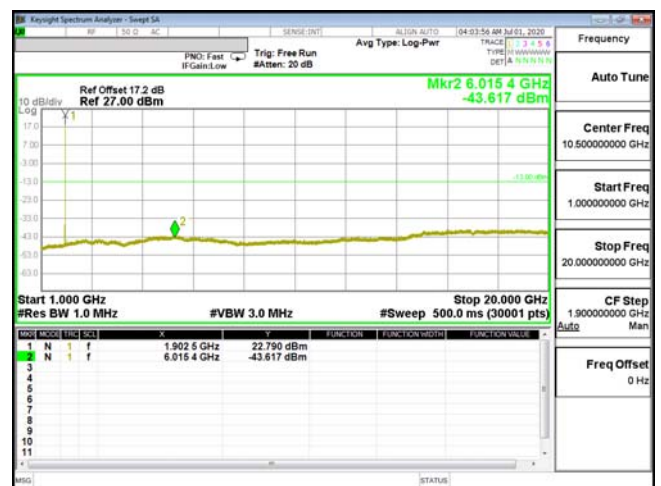
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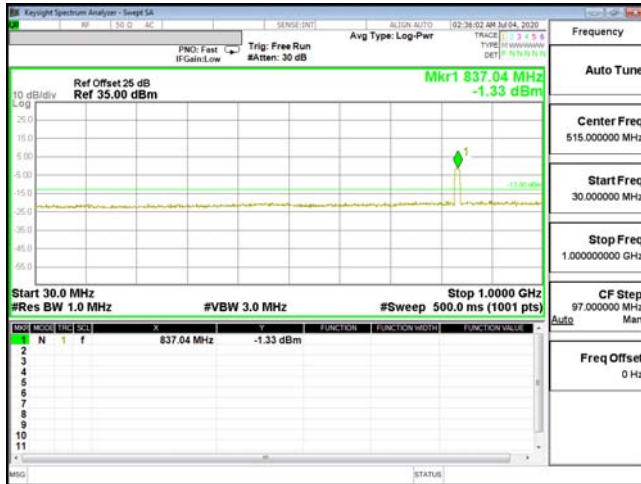
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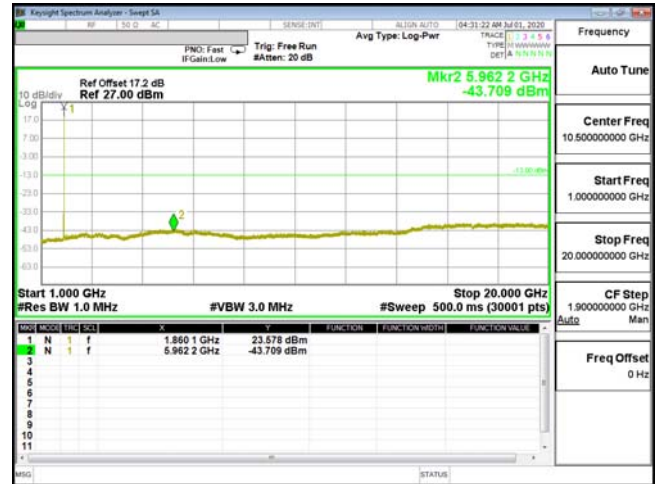
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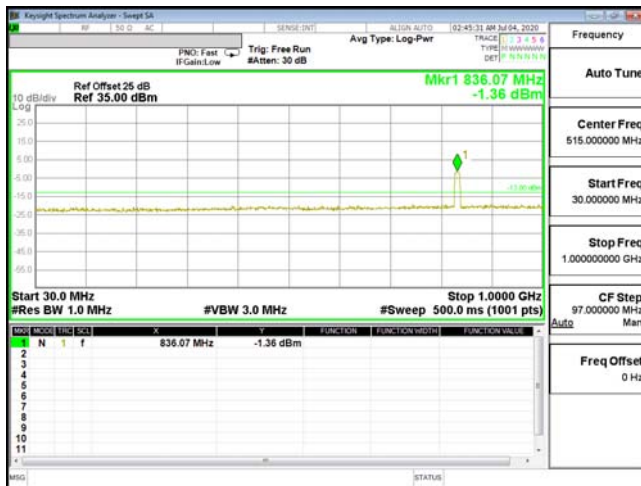
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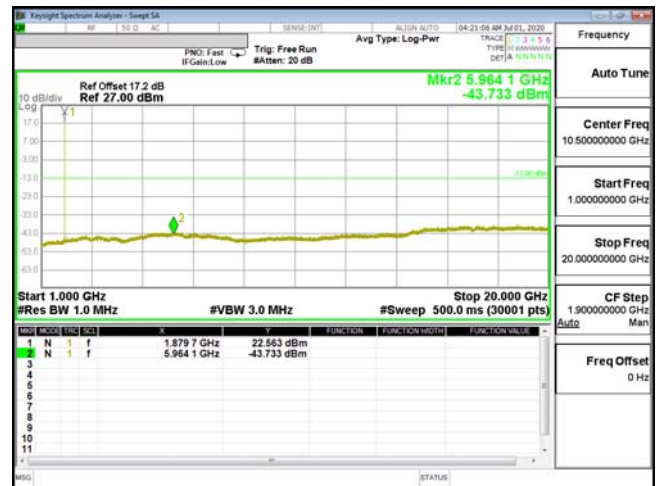
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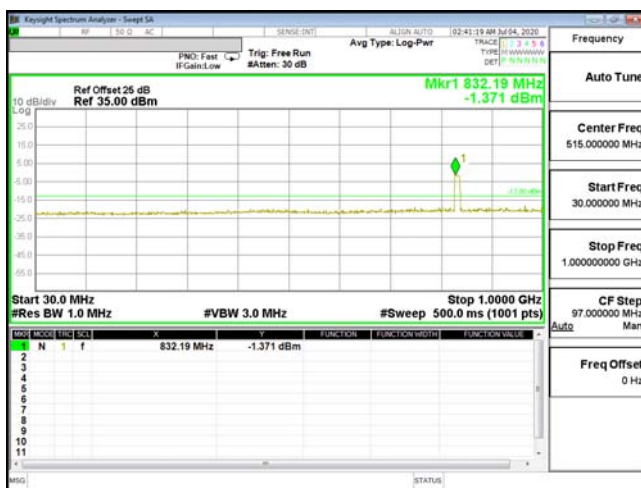
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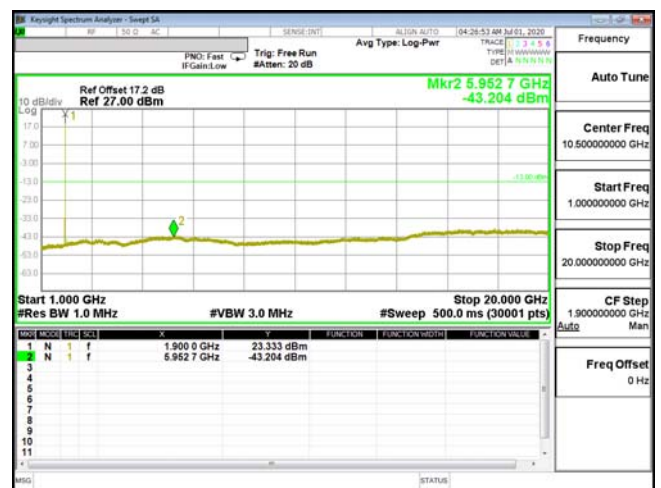
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CSE-ENDC\_5A\_n2-16QAM\_20M\_CH380000\_1900(1,53)



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