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<p>Appendix B: 802.11ax Test Plot</p>	<p>FCC ID A3LSMX700</p>
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**REVISION HISTORY**

The revision history for this document is shown in table.

Revision No.	Date of Issue	Description
0	December 01, 2021	Initial Release

**Note:**

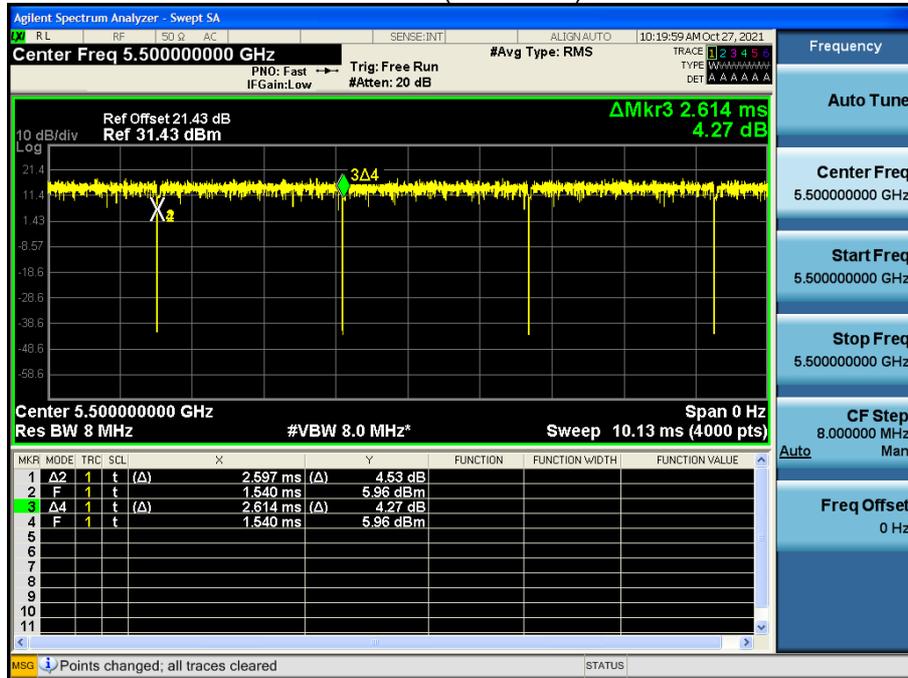
In order to simplify the report, attached plots were only the most lowest datarate.

# 1. Duty Cycle

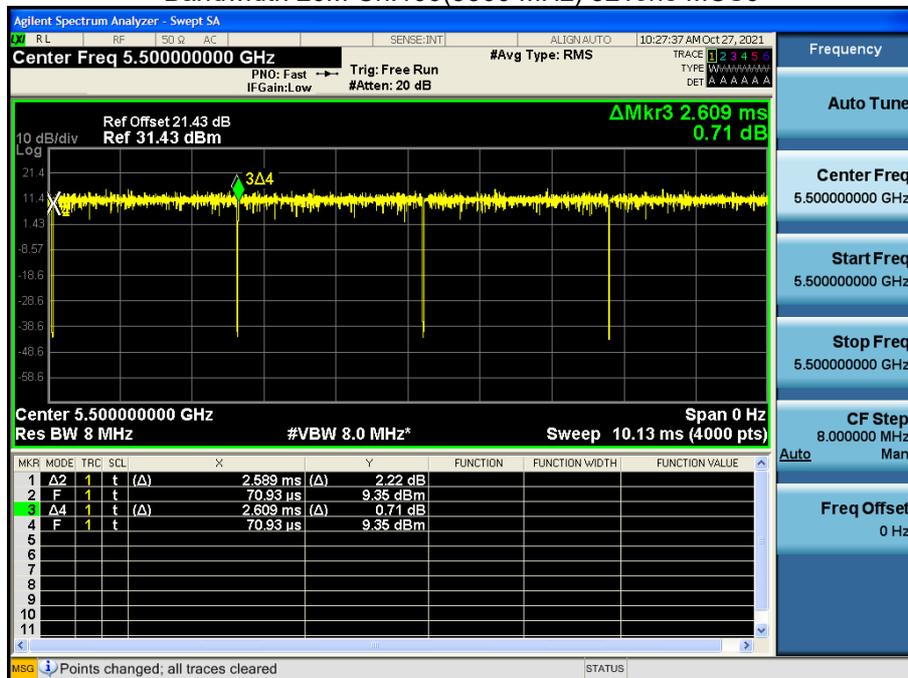
**Note:**

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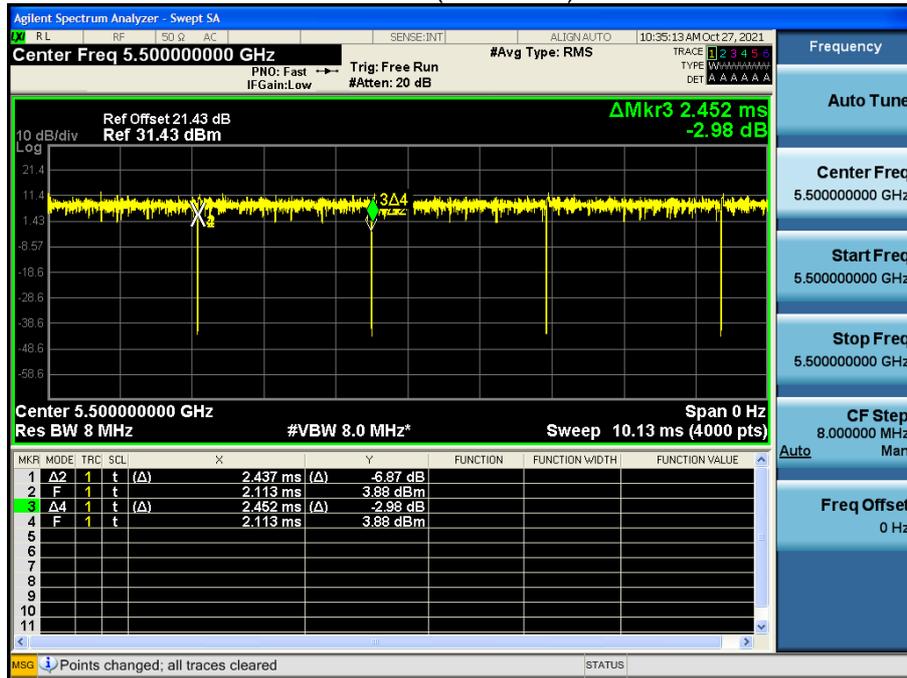
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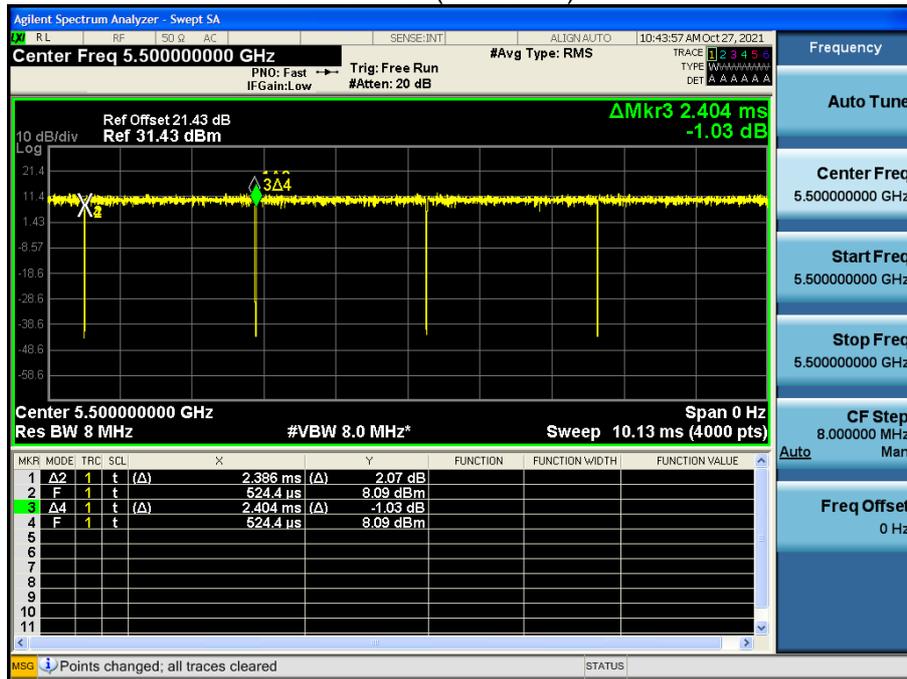
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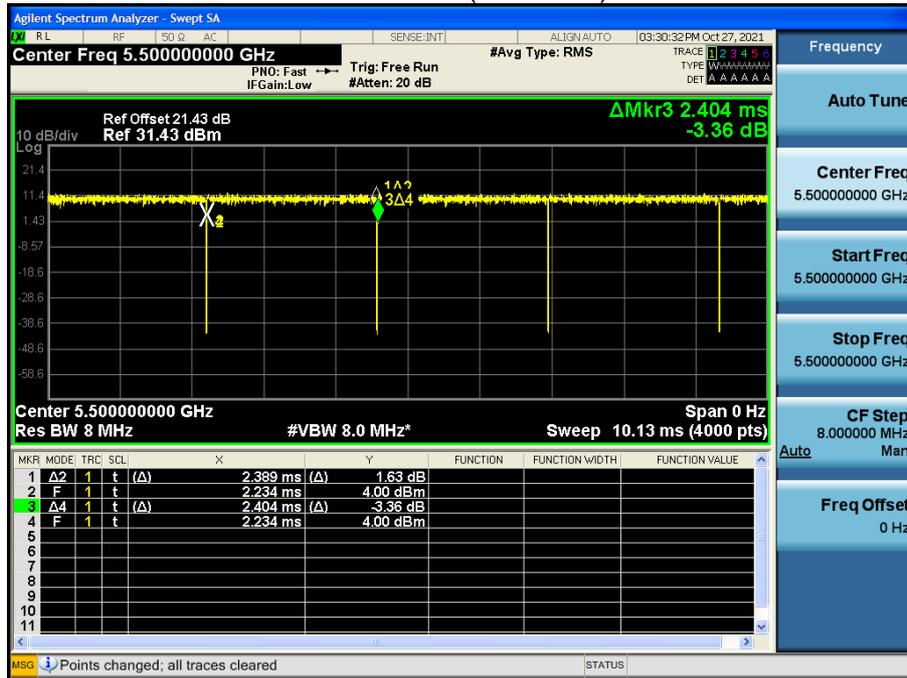
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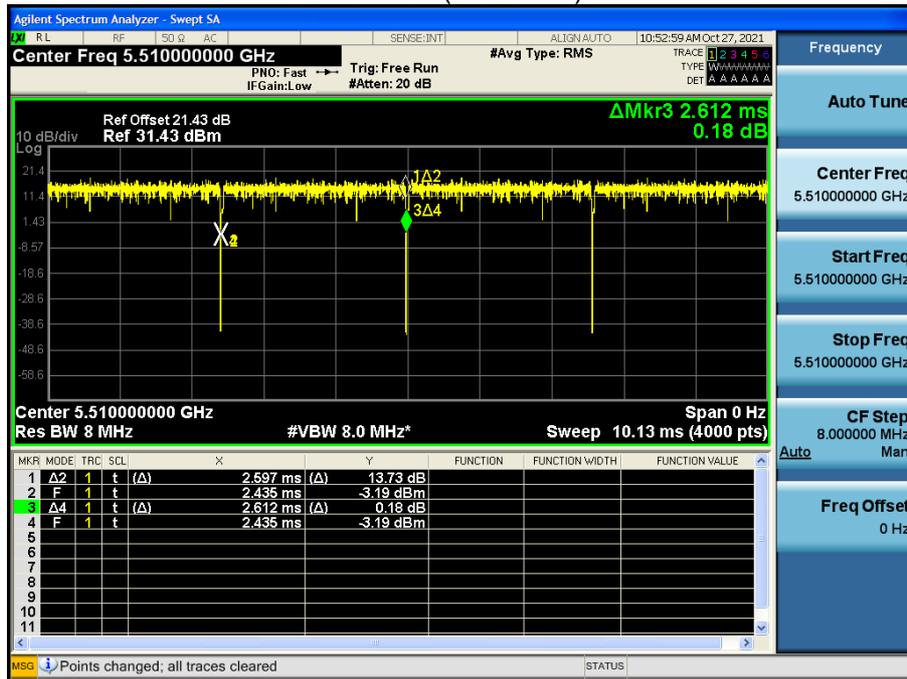
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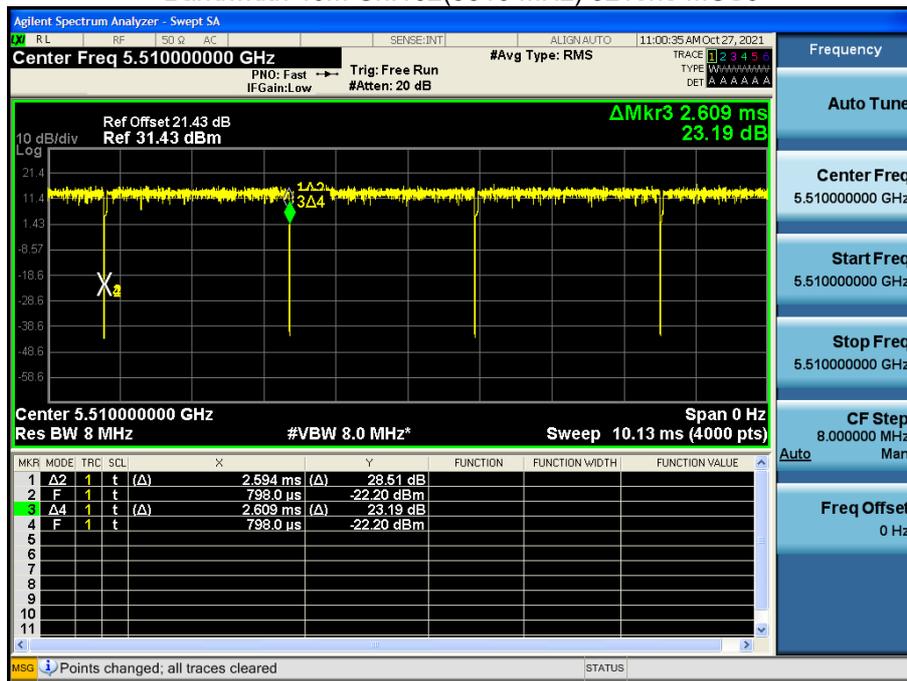
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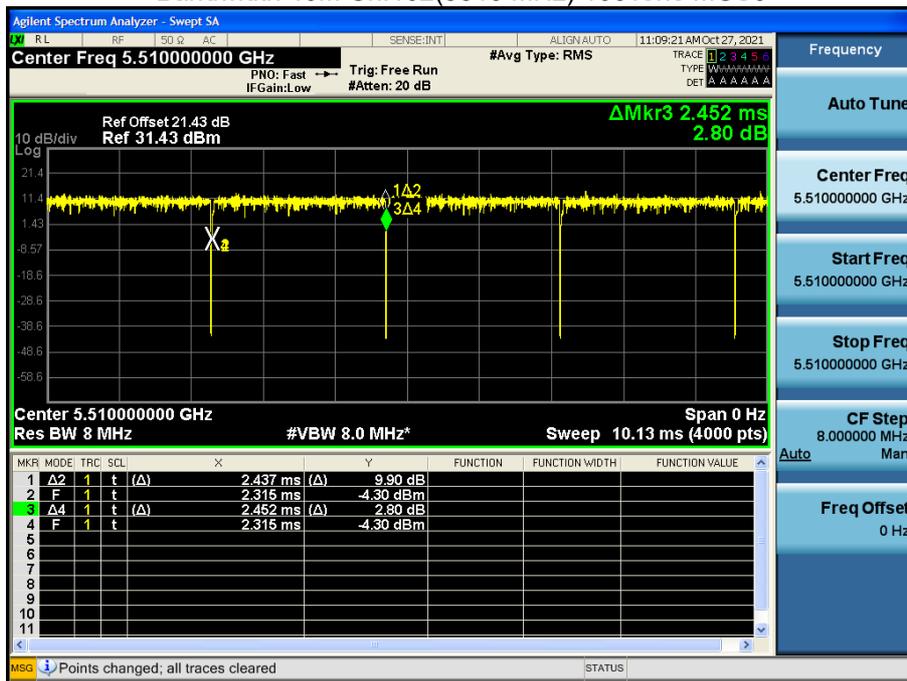
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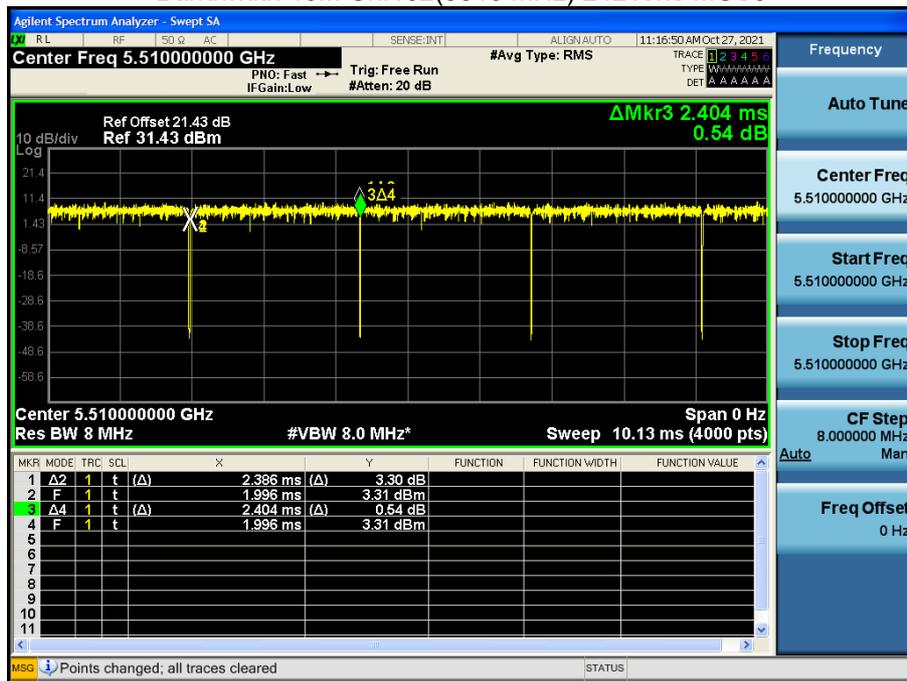
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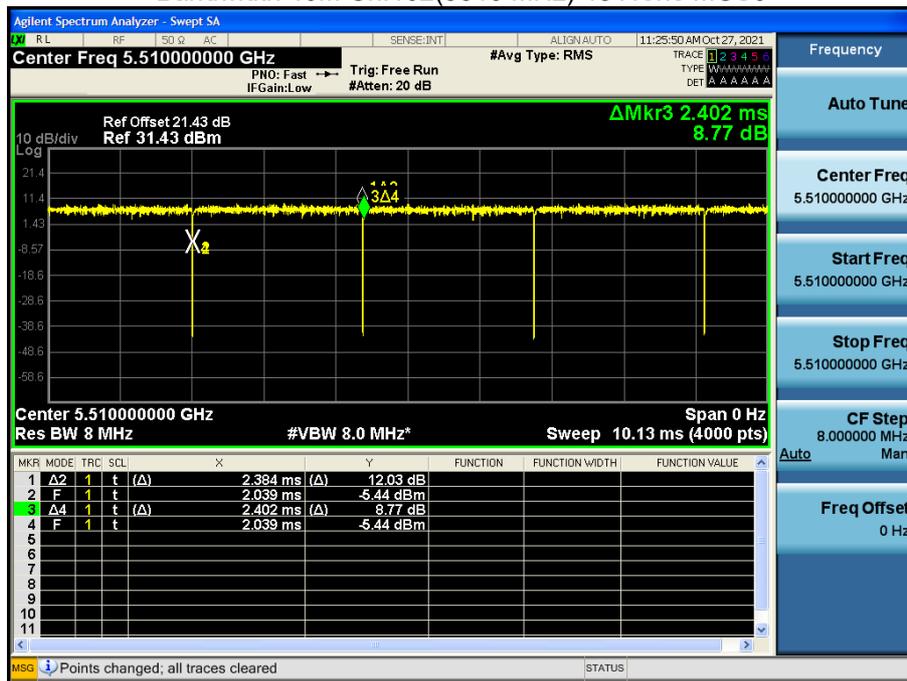
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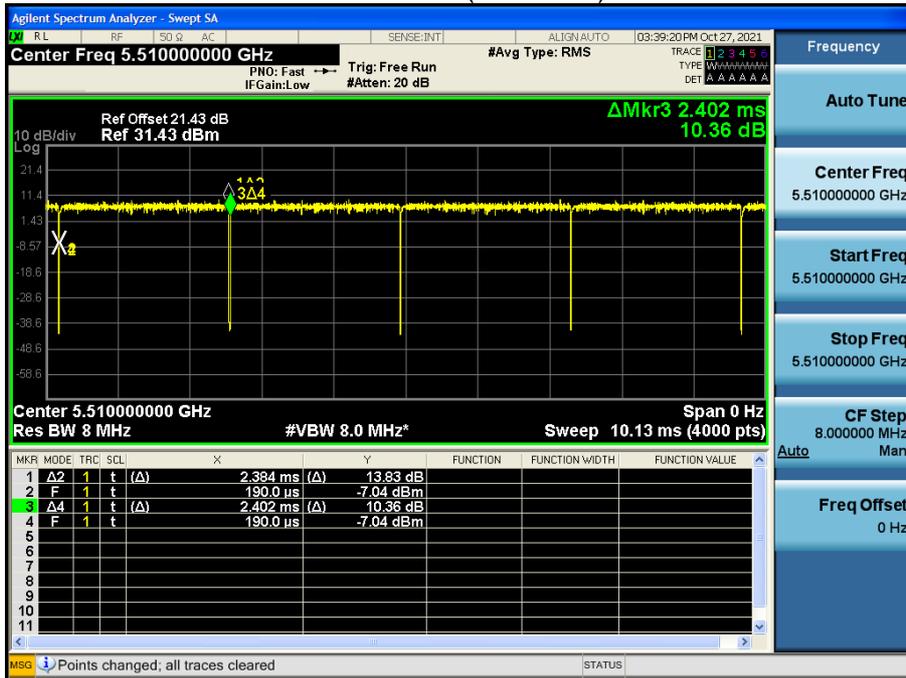
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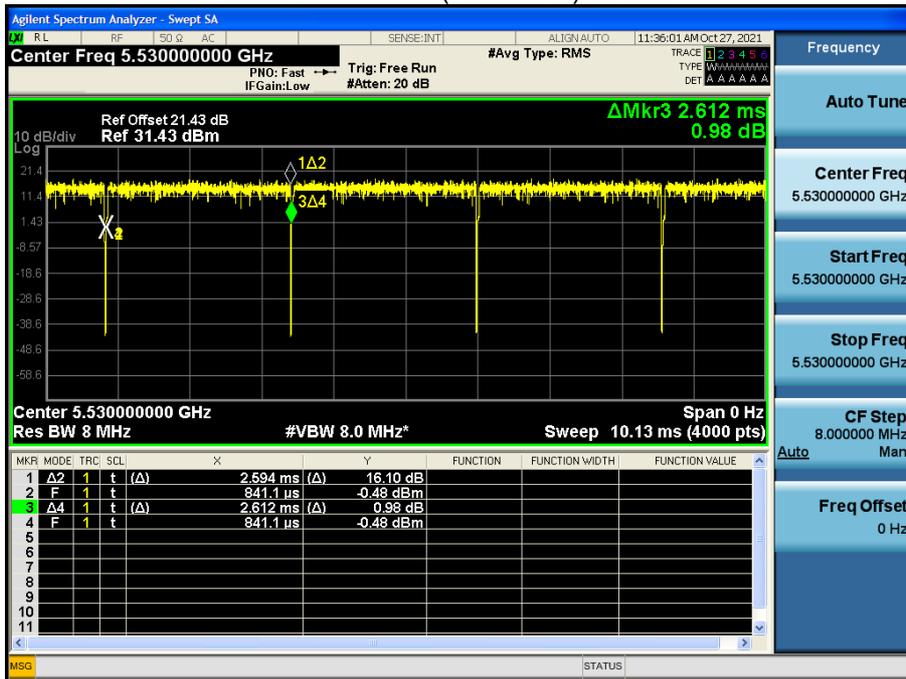
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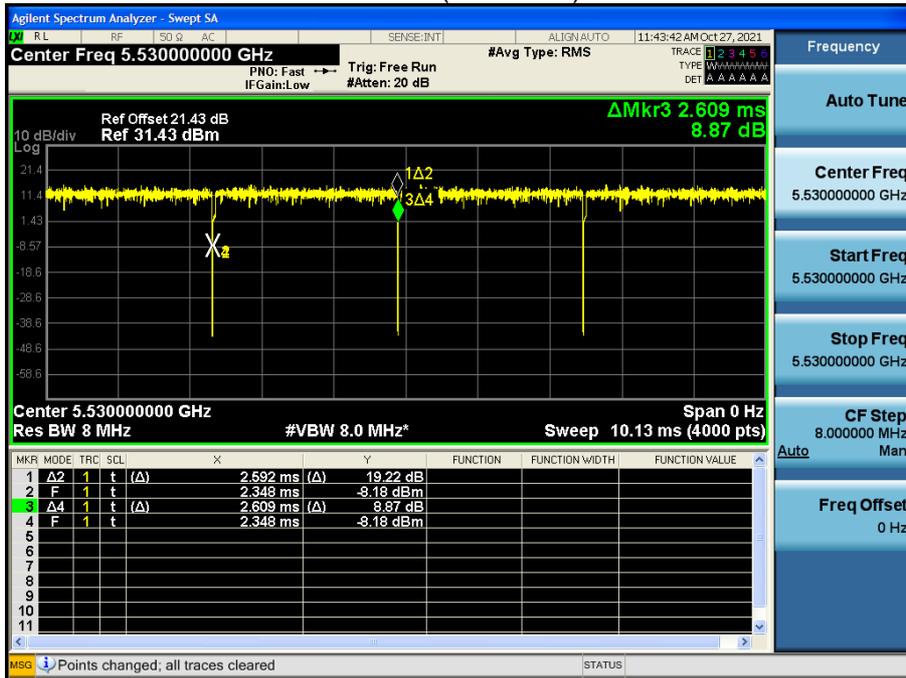
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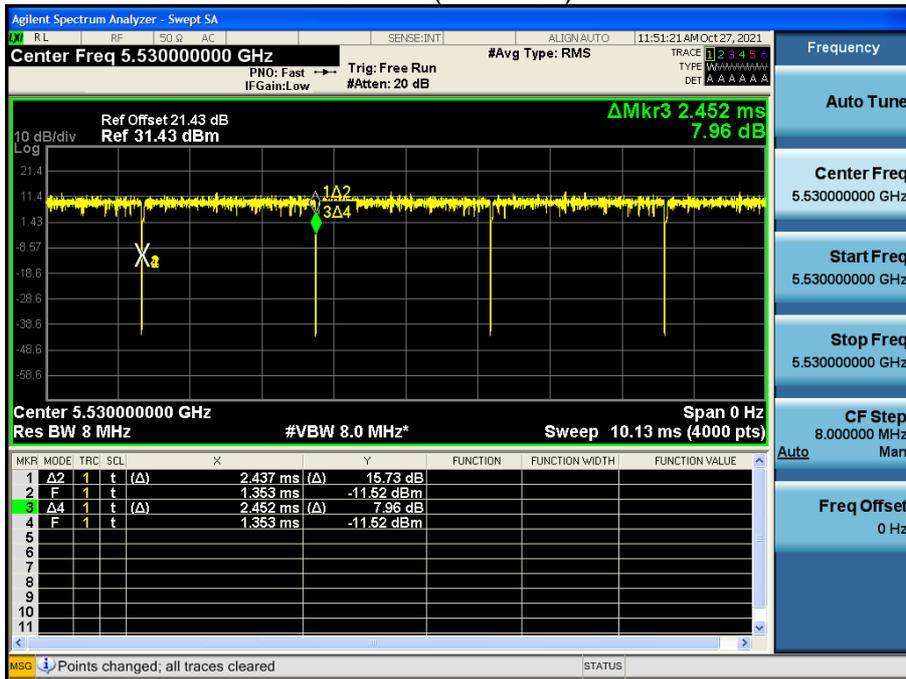
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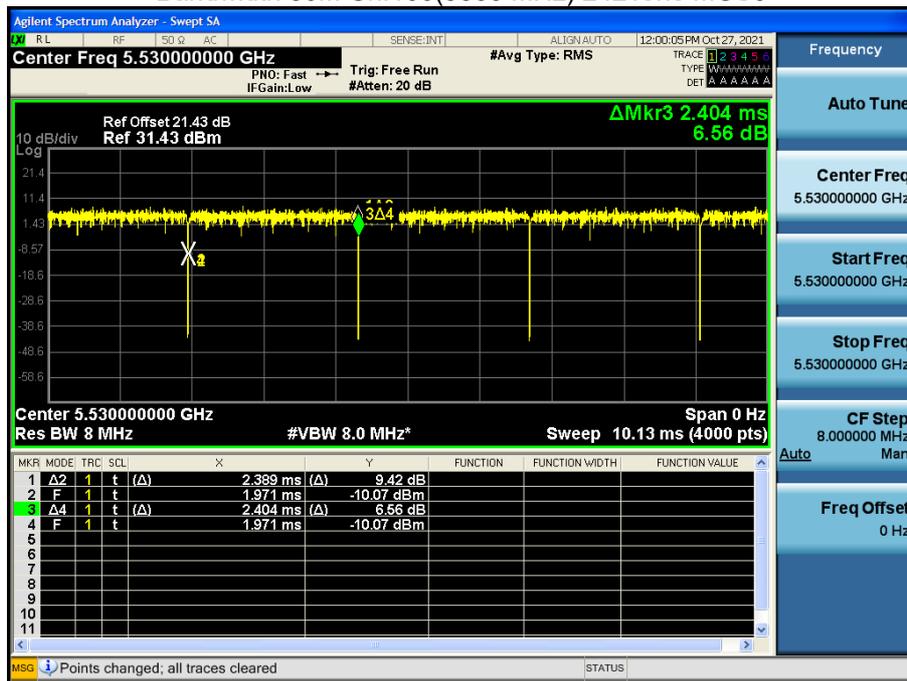
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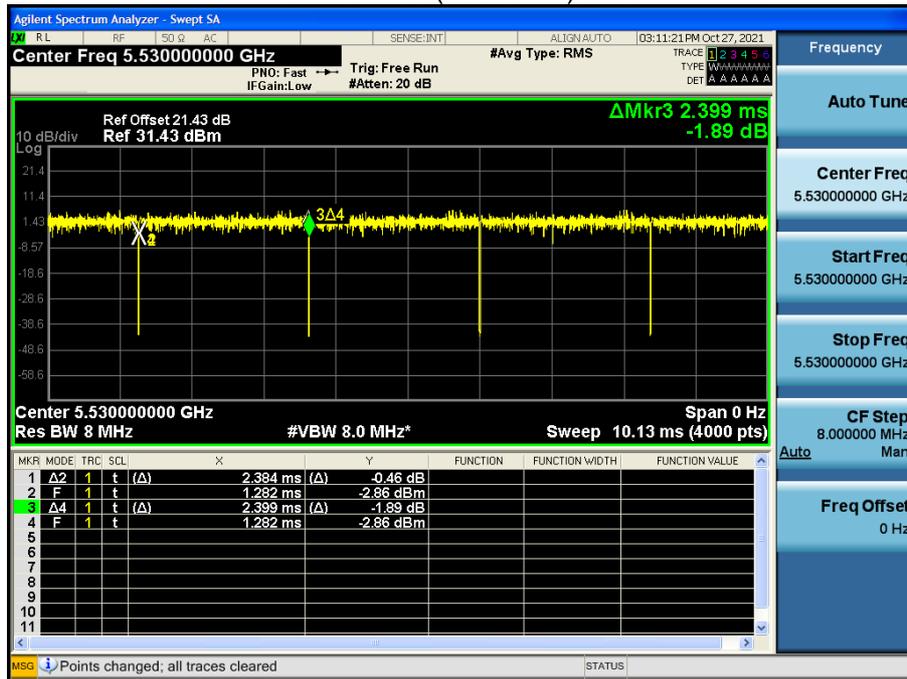
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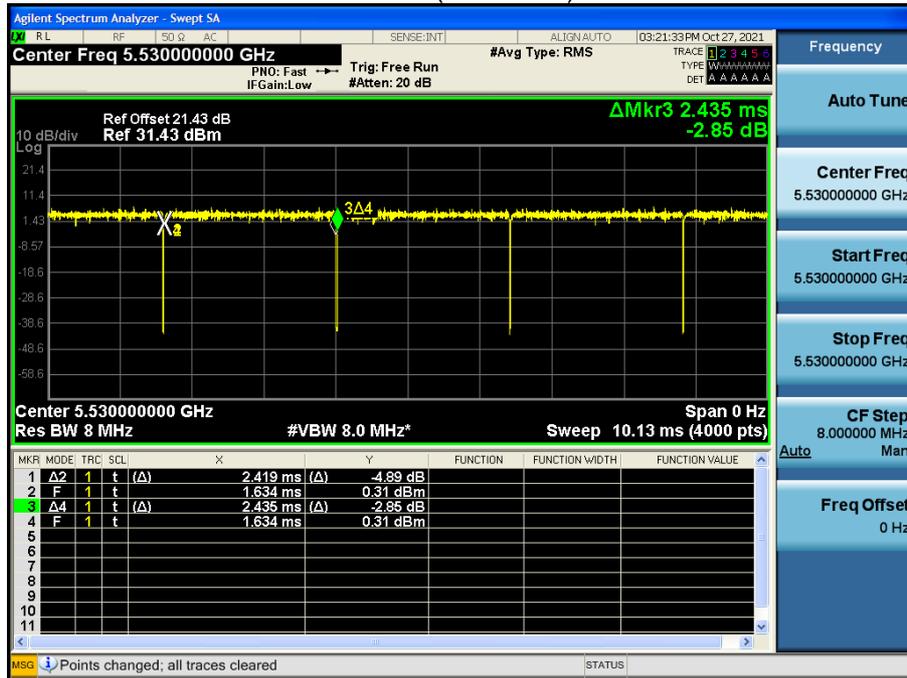
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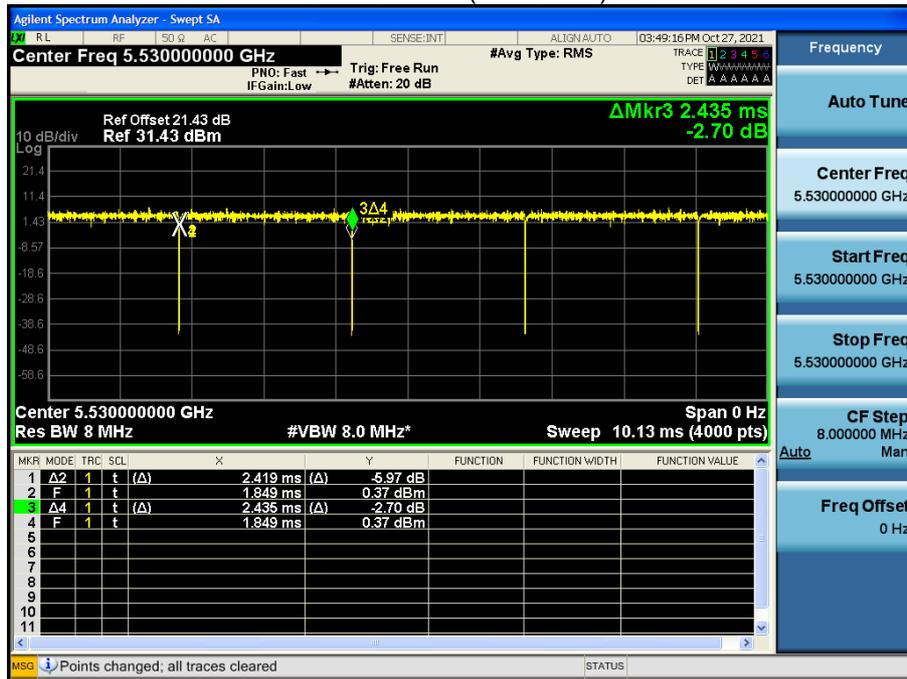
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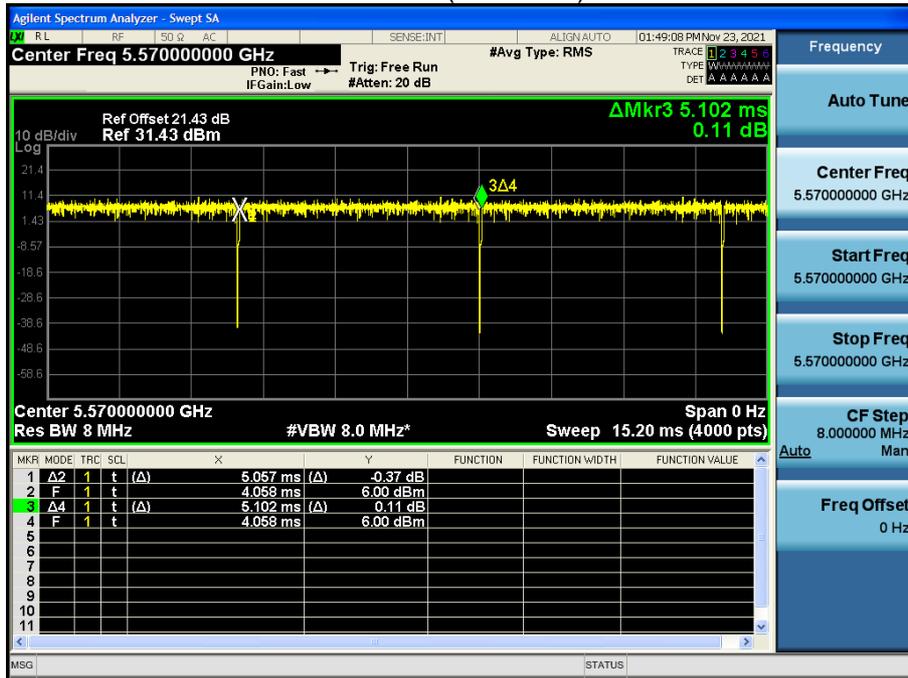
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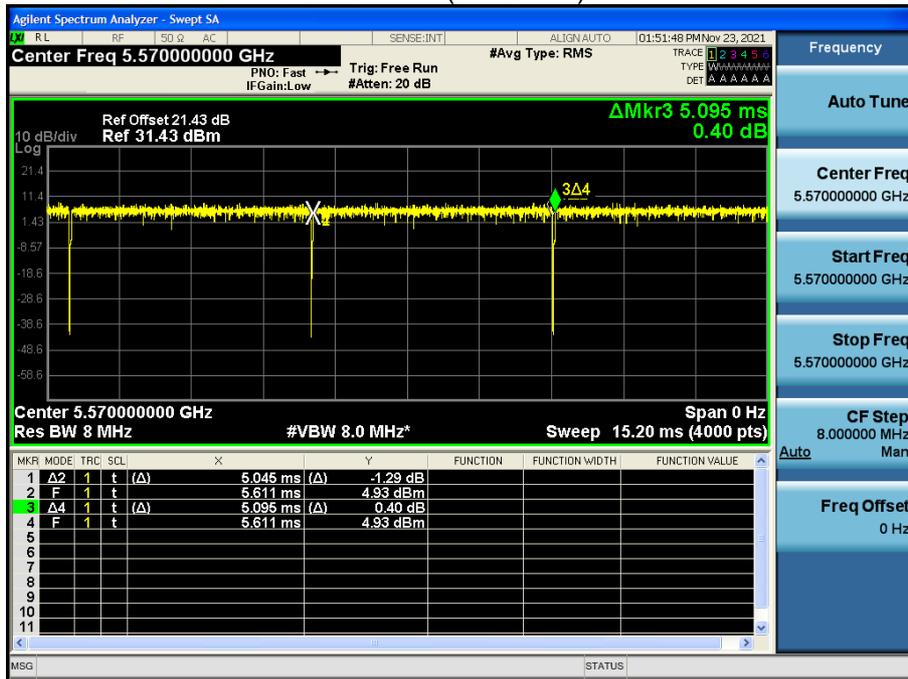
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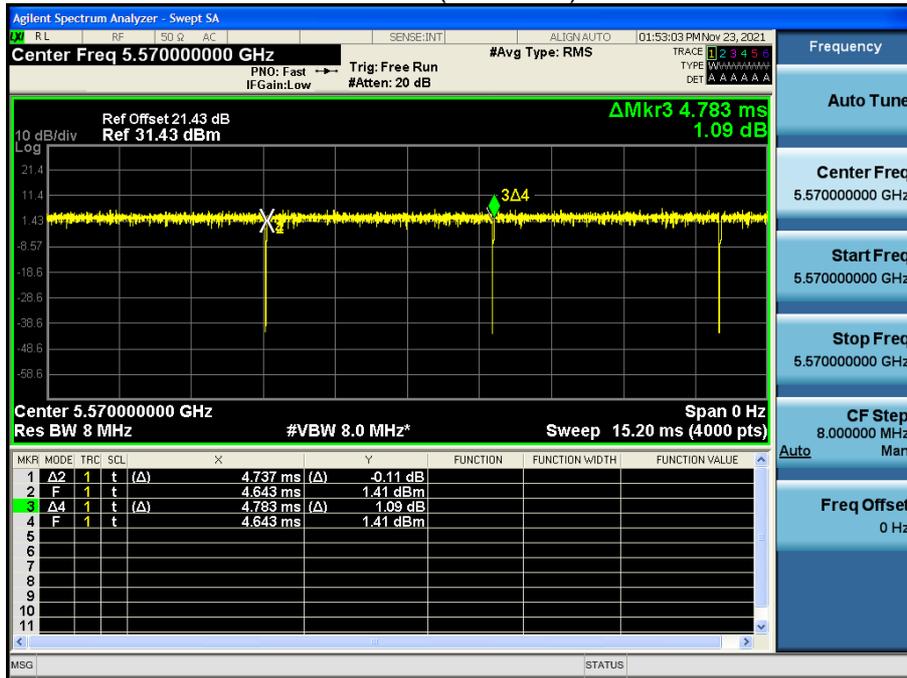
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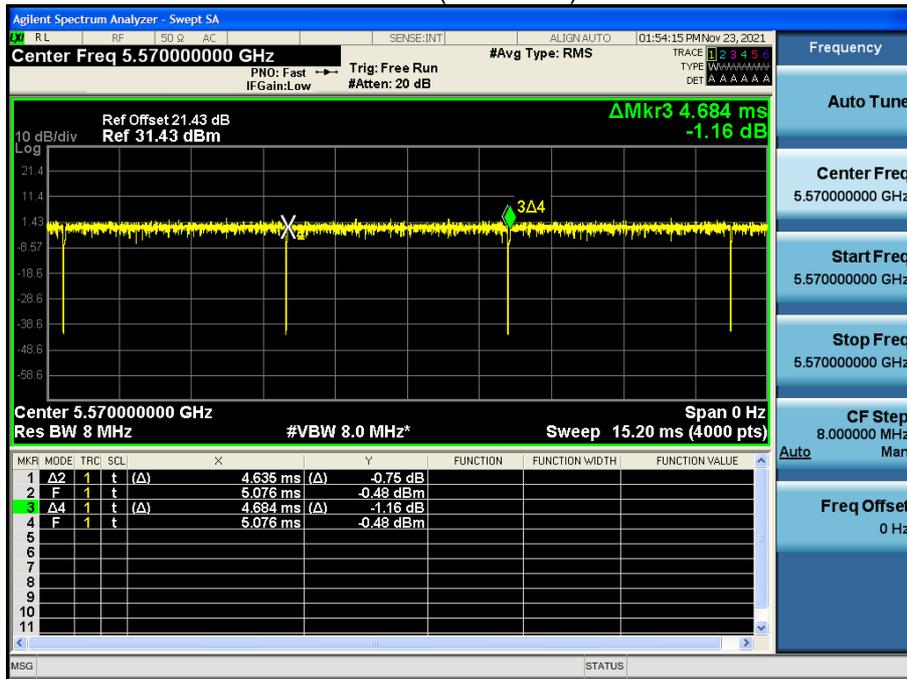
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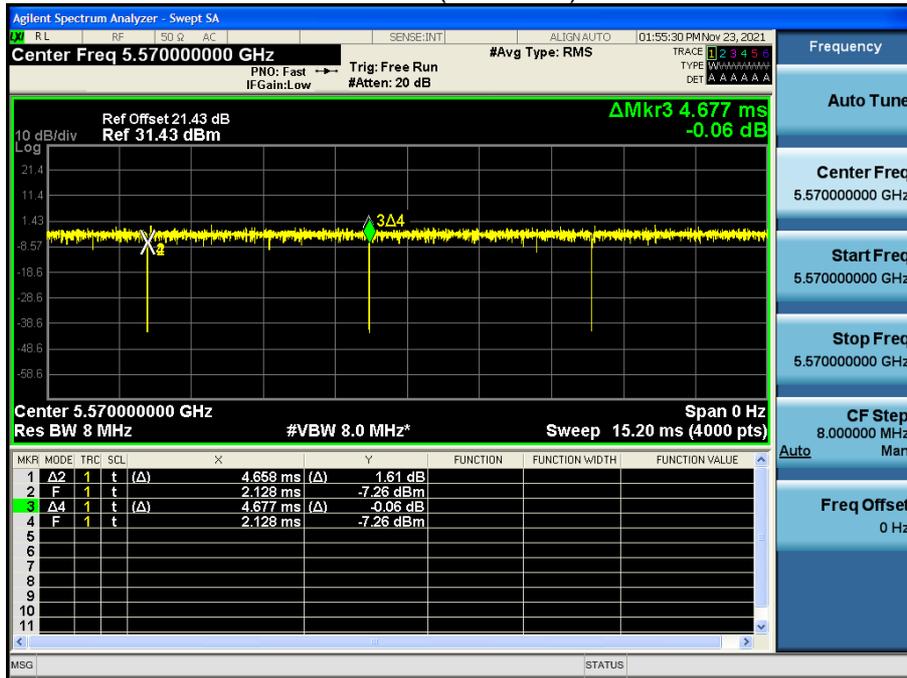
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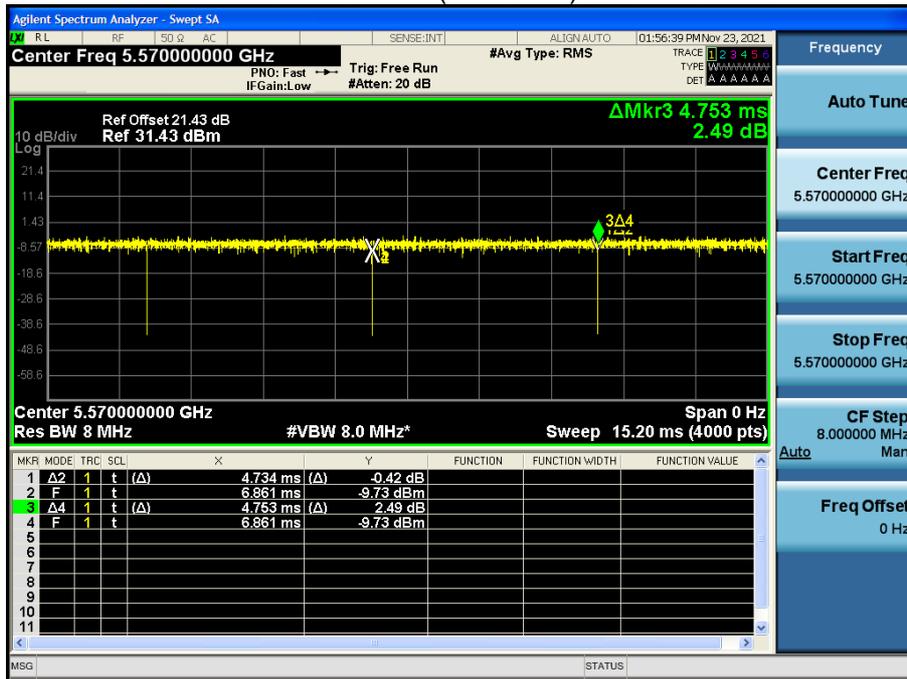
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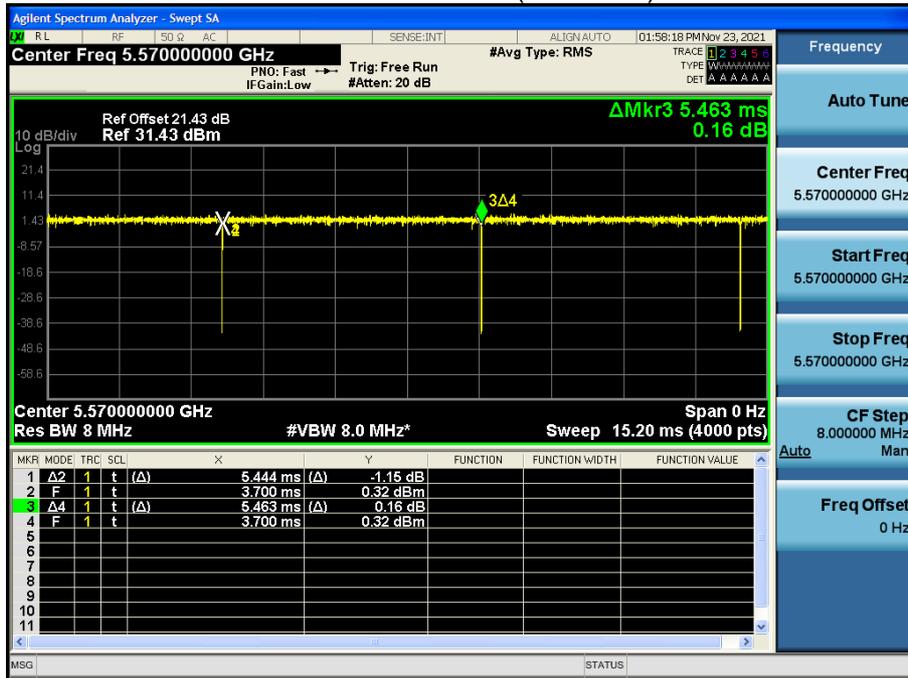
Bandwidth 160M Ch.114(5570 MHz) 484 Tone MCS0



Bandwidth 160M Ch.114(5570 MHz) 996 Tone MCS0



Bandwidth 160M Ch.114(5570 MHz) SU

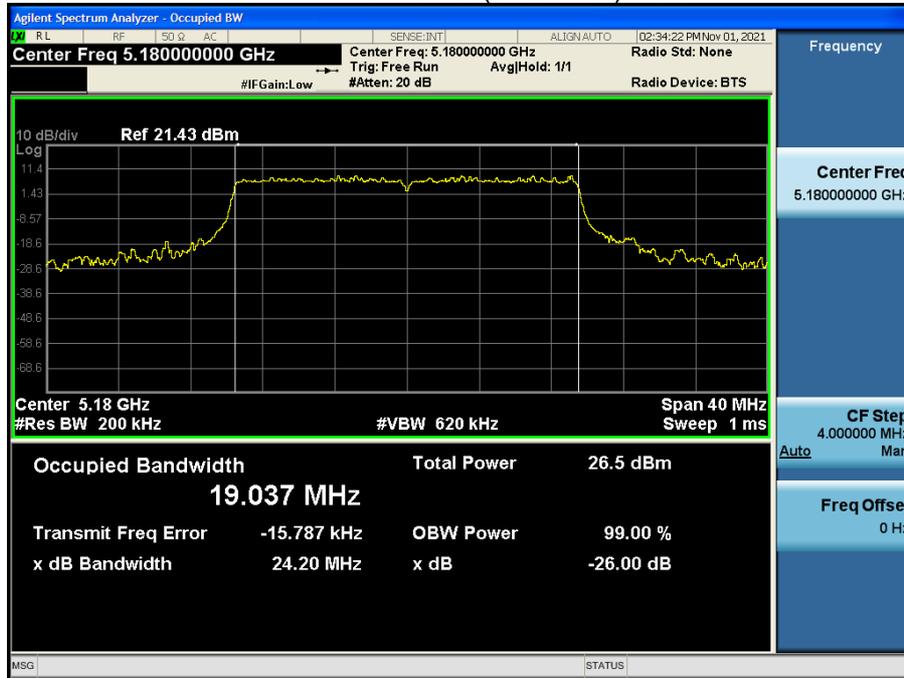


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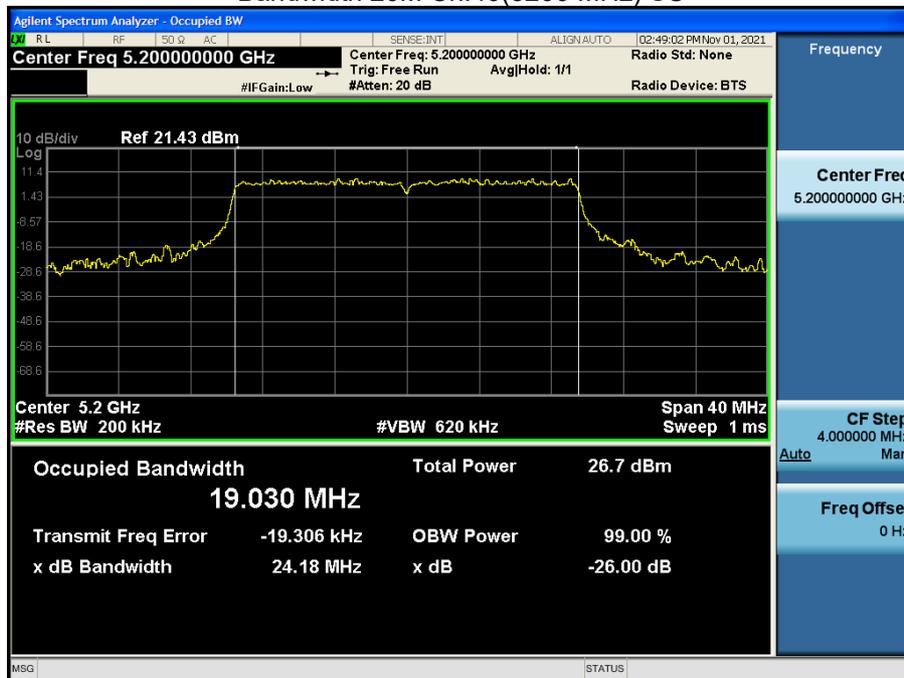
**Note:**

1. In order to simplify the report, attached plots were only (Worst Case: Ant.2).
2. In order to simplify the report, attached plots were only the widest channel bandwidth.

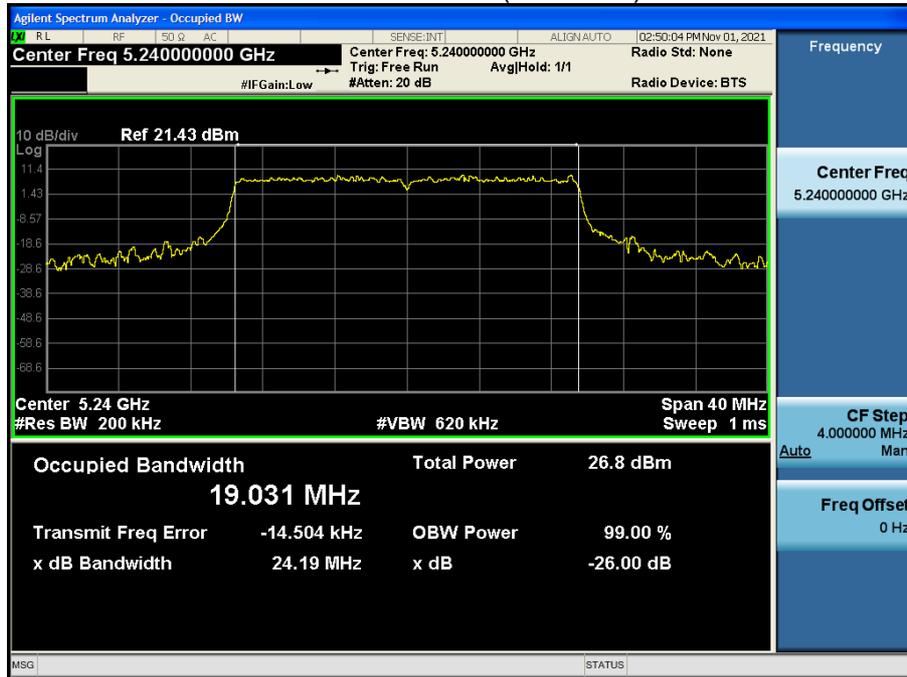
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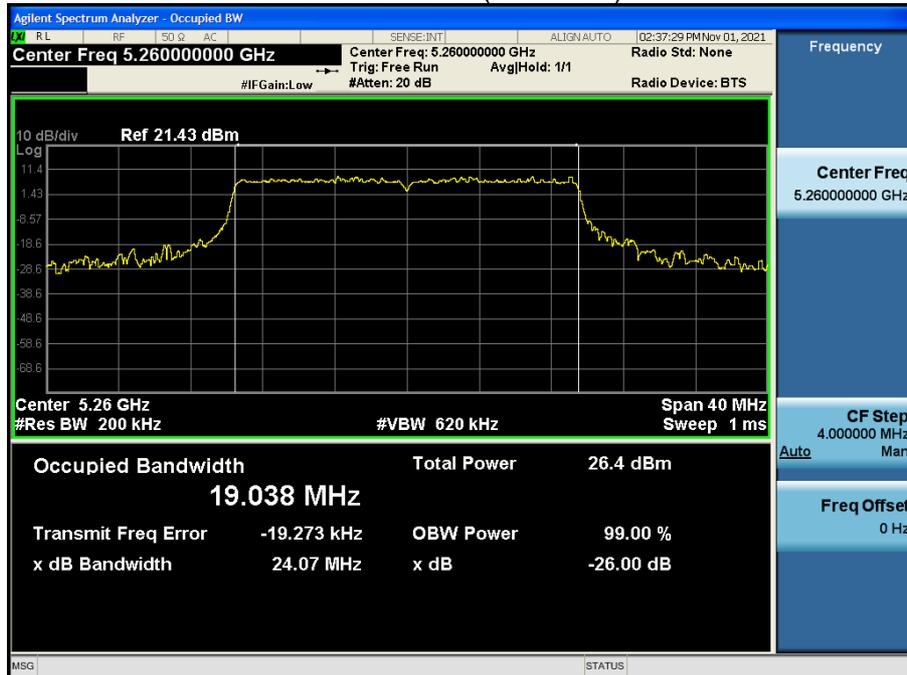
Bandwidth 20M Ch.40(5200 MHz) SU



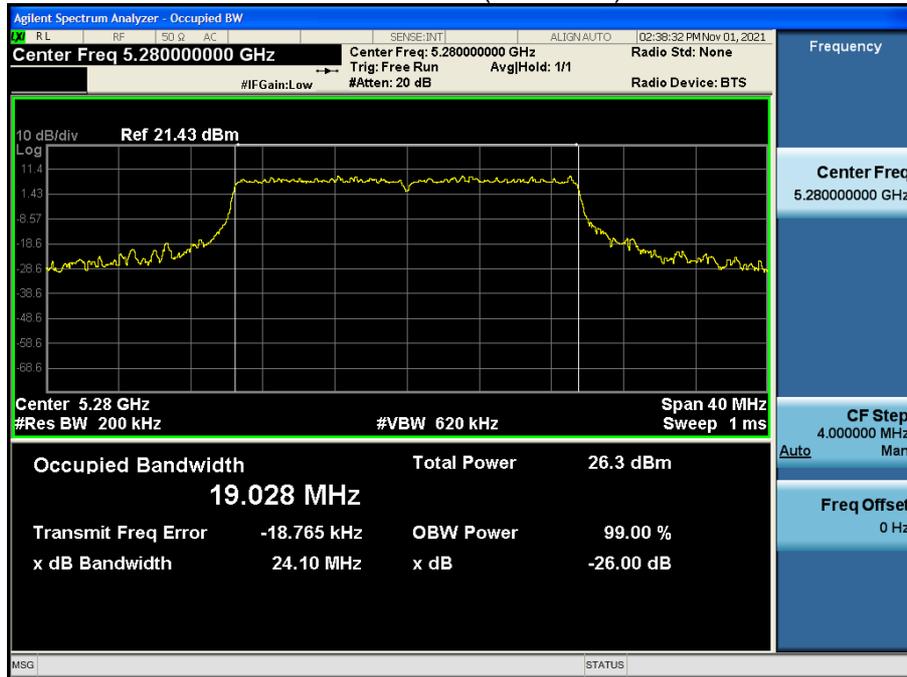
Bandwidth 20M Ch.48(5240 MHz) SU



Bandwidth 20M Ch.52(5260 MHz) RU 61



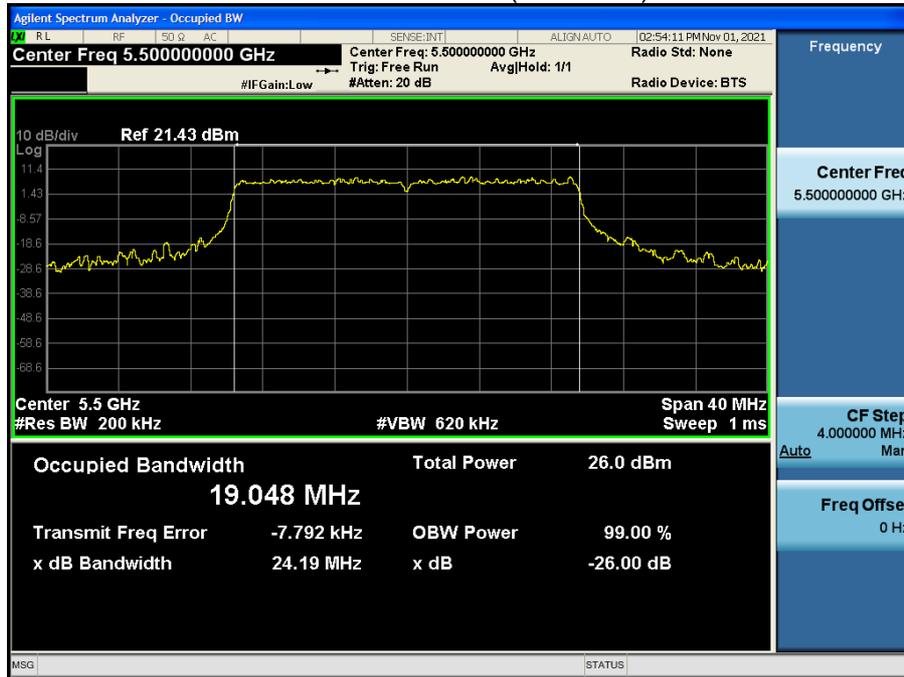
Bandwidth 20M Ch.60(5300 MHz) RU 61



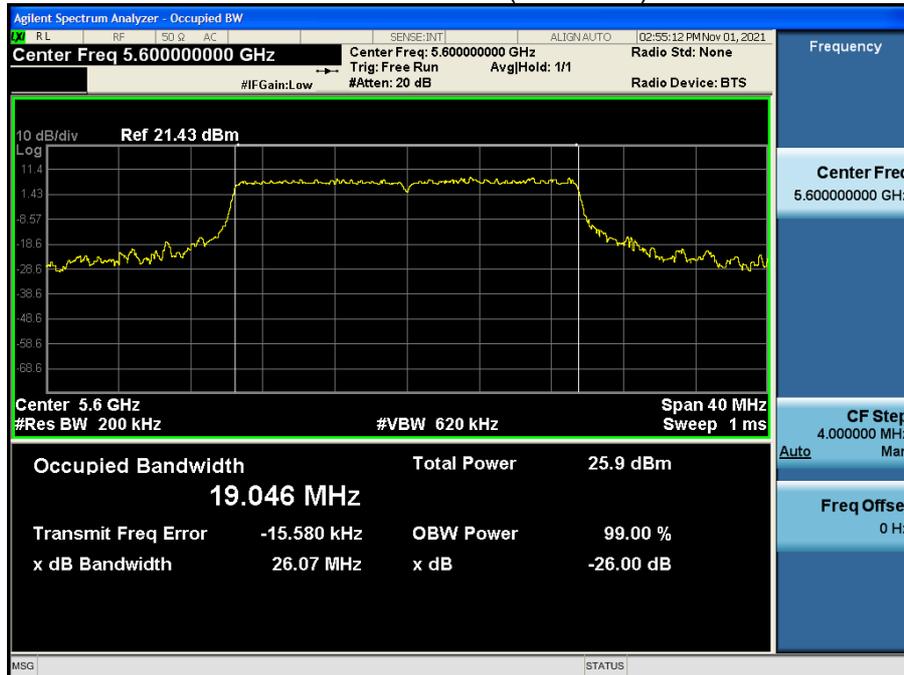
Bandwidth 20M Ch.64(5320 MHz) SU



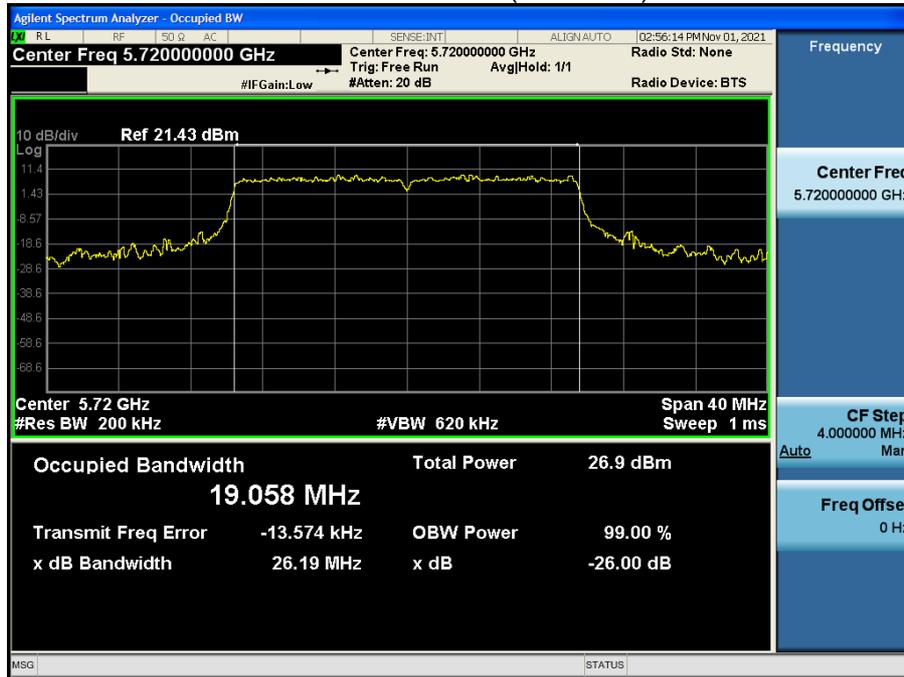
Bandwidth 20M Ch.100(5500 MHz) SU



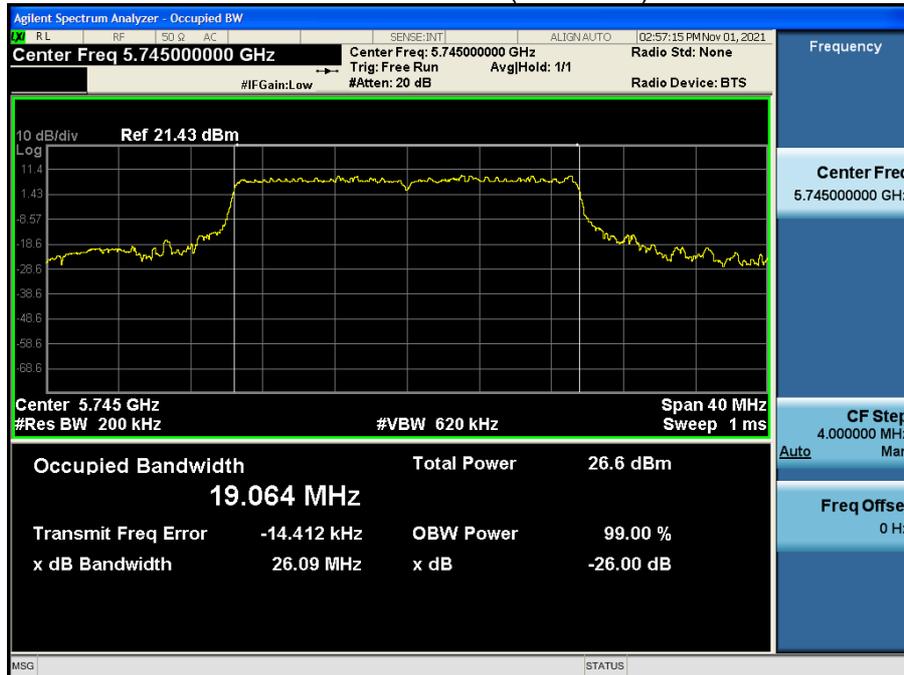
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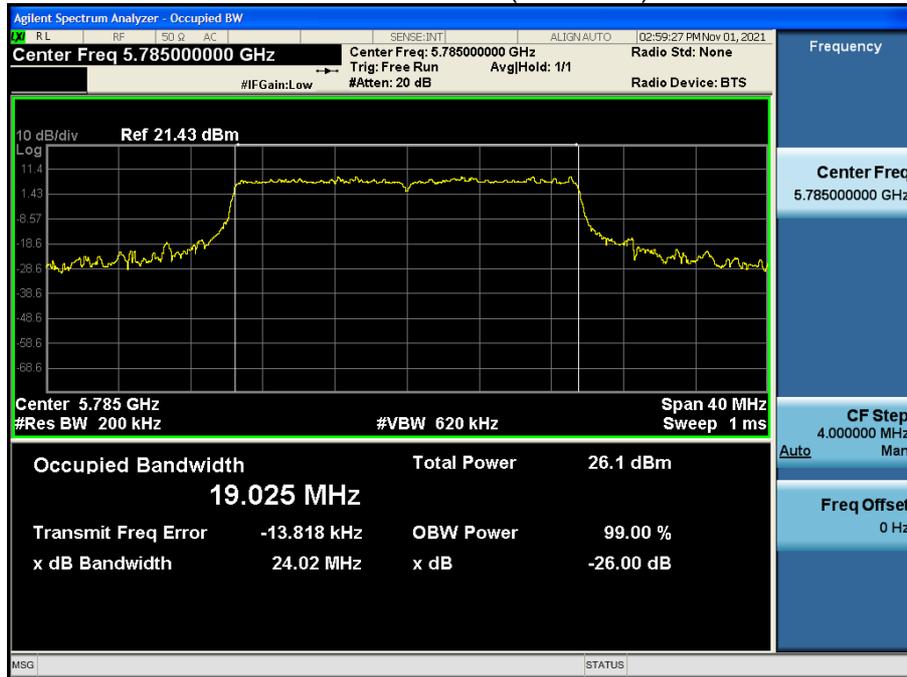
Bandwidth 20M Ch.144(5720 MHz) SU



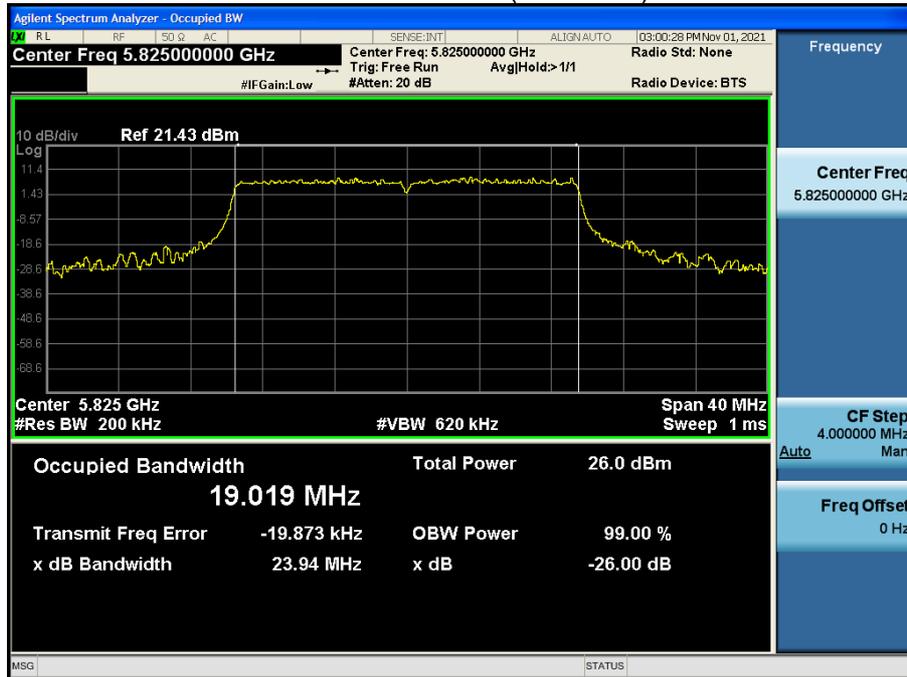
Bandwidth 20M Ch.149(5745 MHz) SU



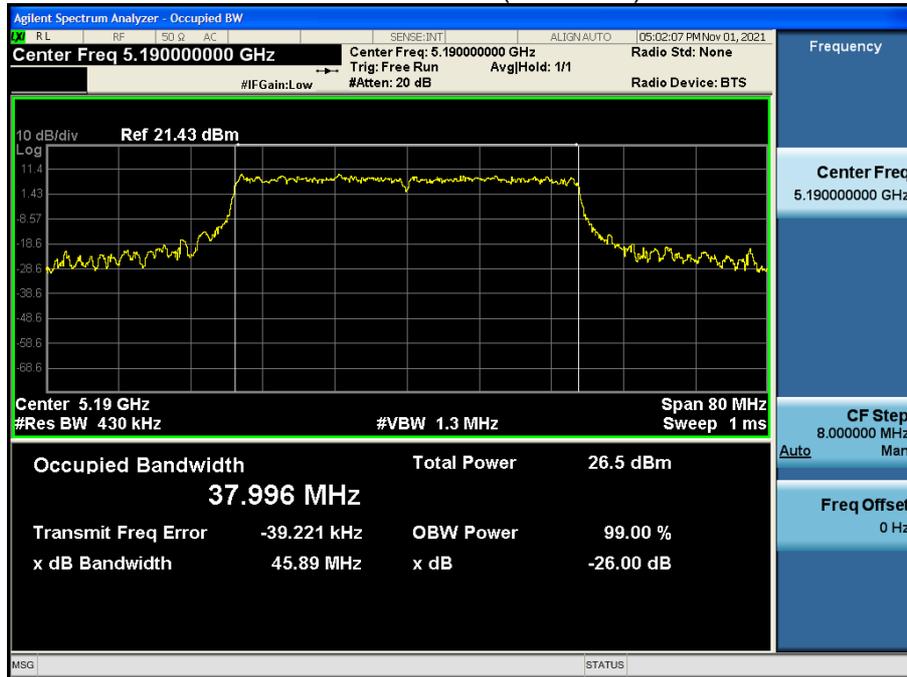
Bandwidth 20M Ch.157(5785 MHz) SU



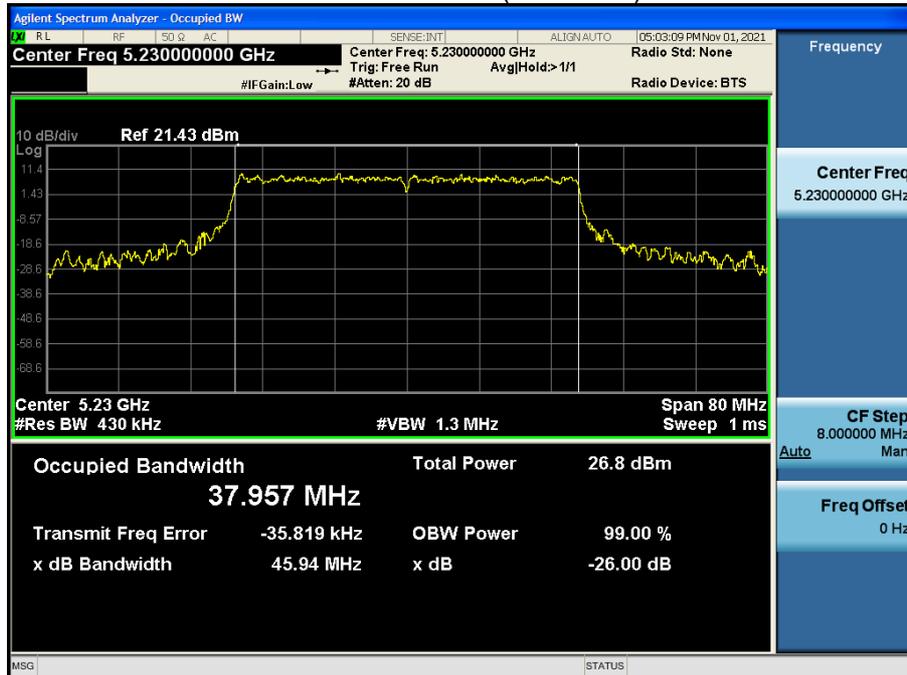
Bandwidth 20M Ch.165(5825 MHz) SU



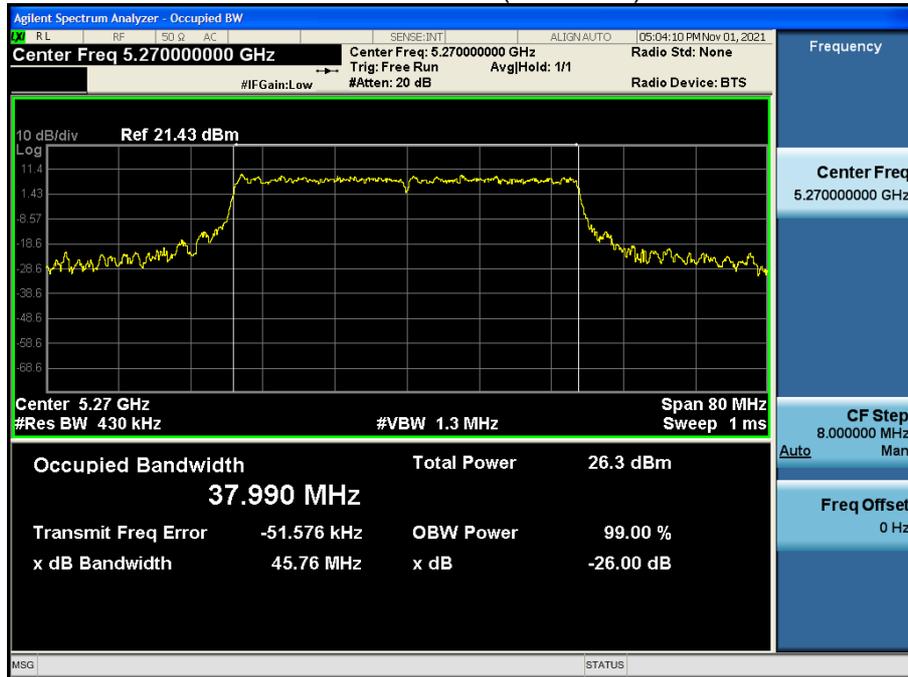
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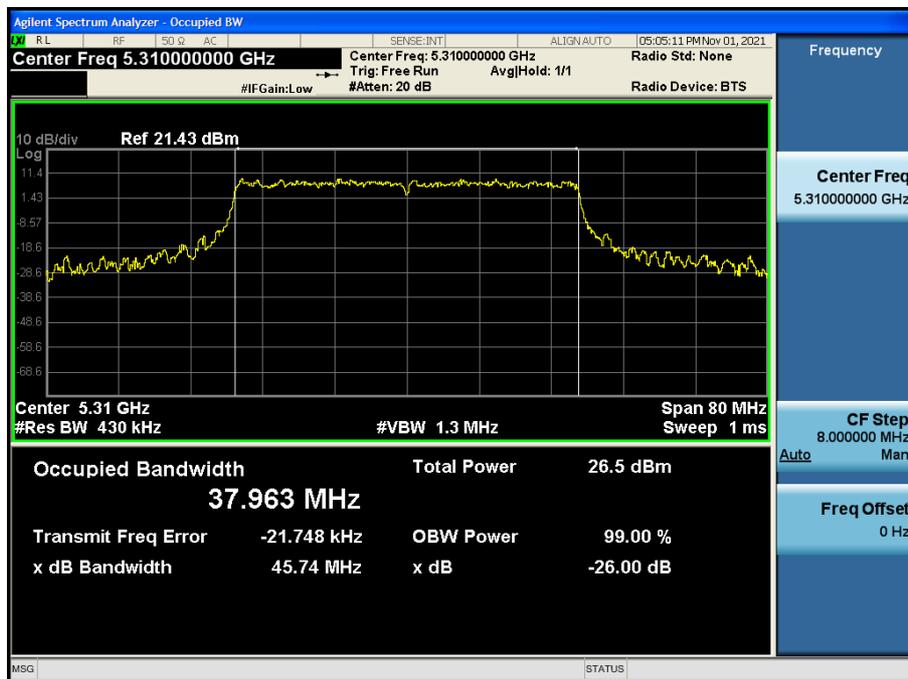
Bandwidth 40M Ch.46(5230 MHz) SU



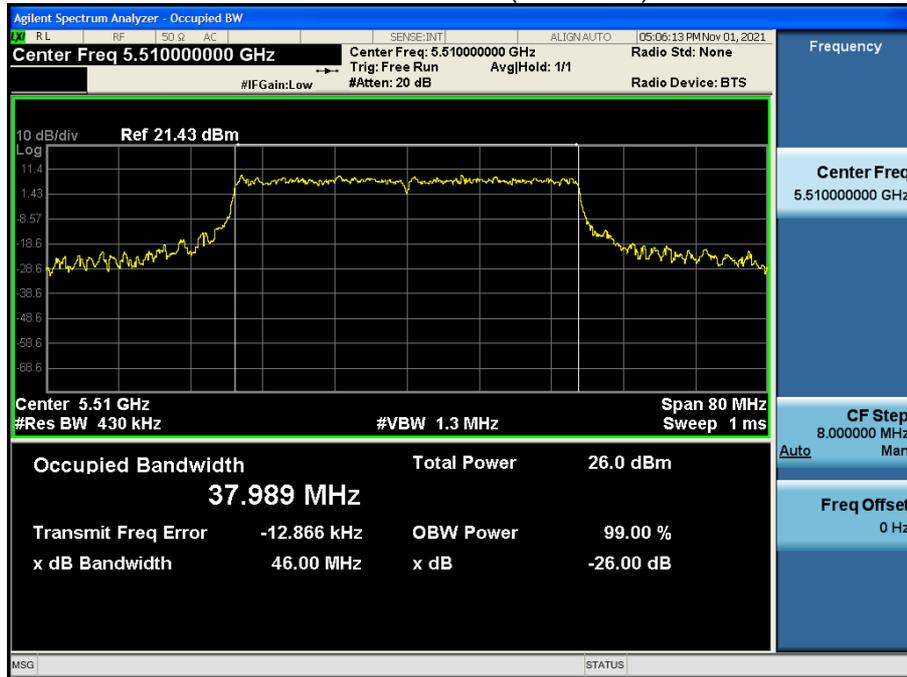
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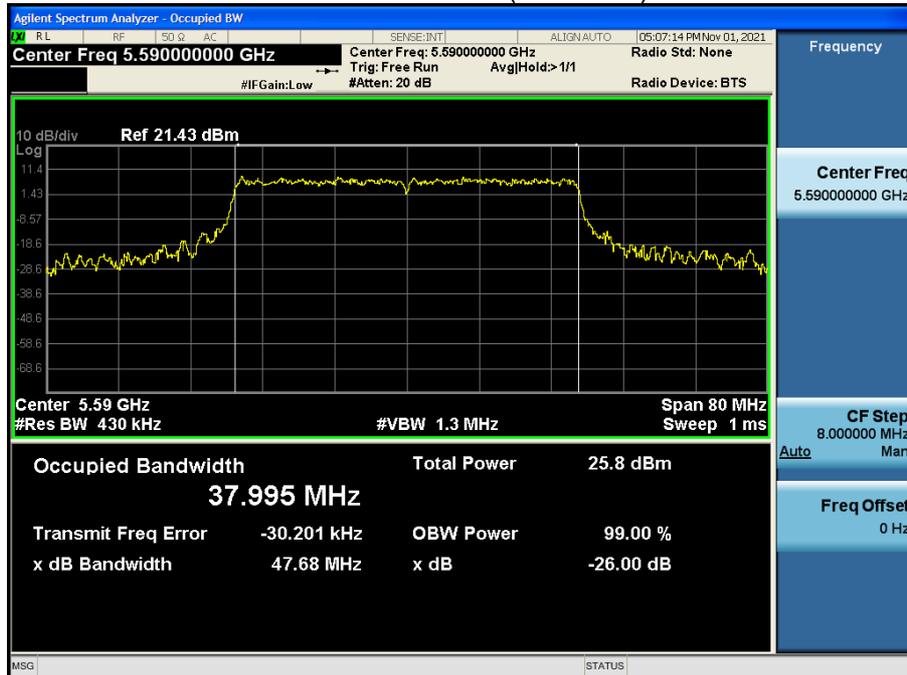
Bandwidth 40M Ch.62(5310 MHz) SU



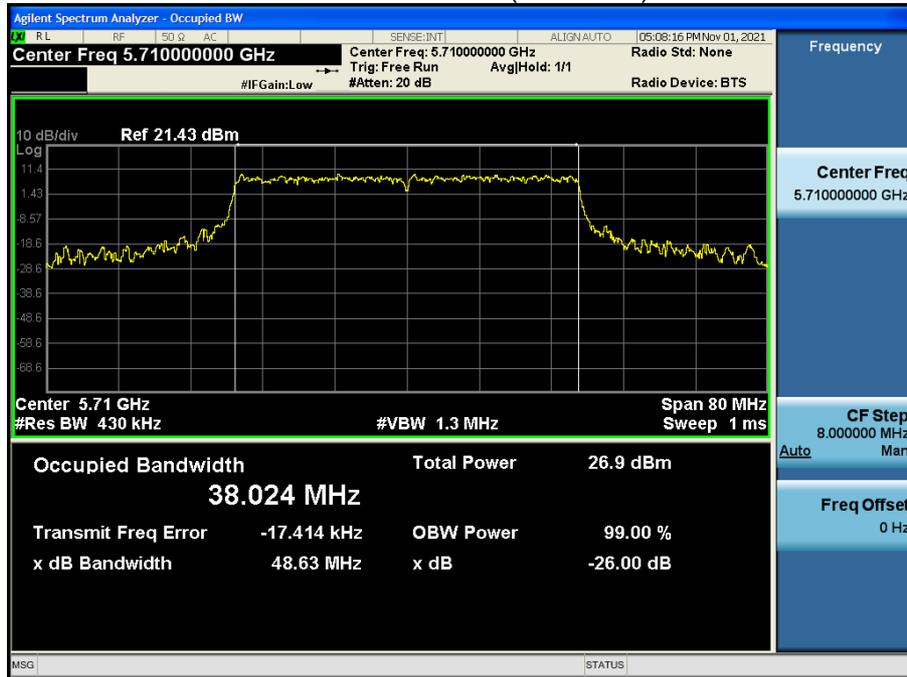
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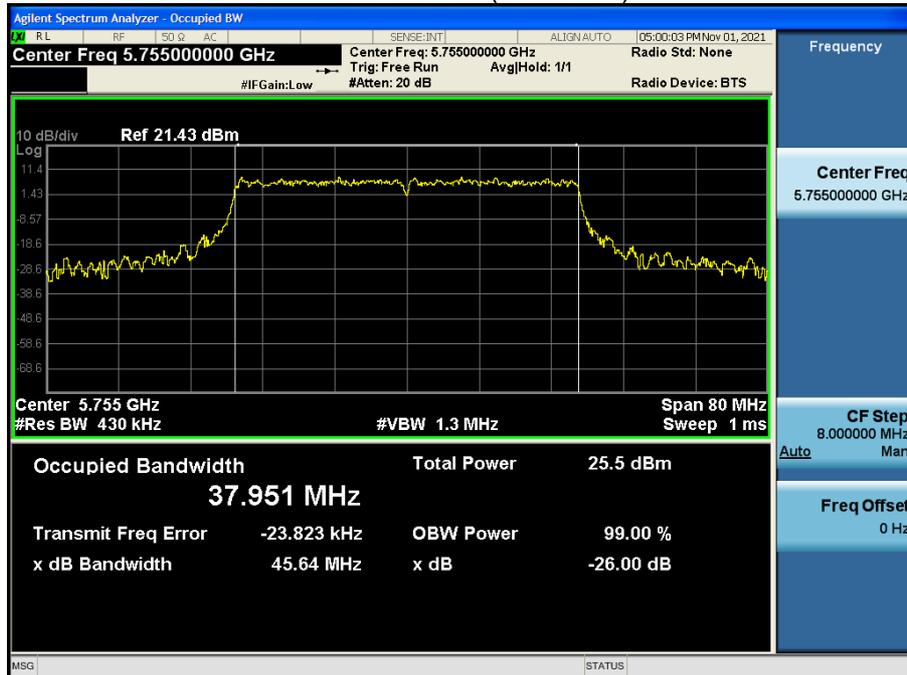
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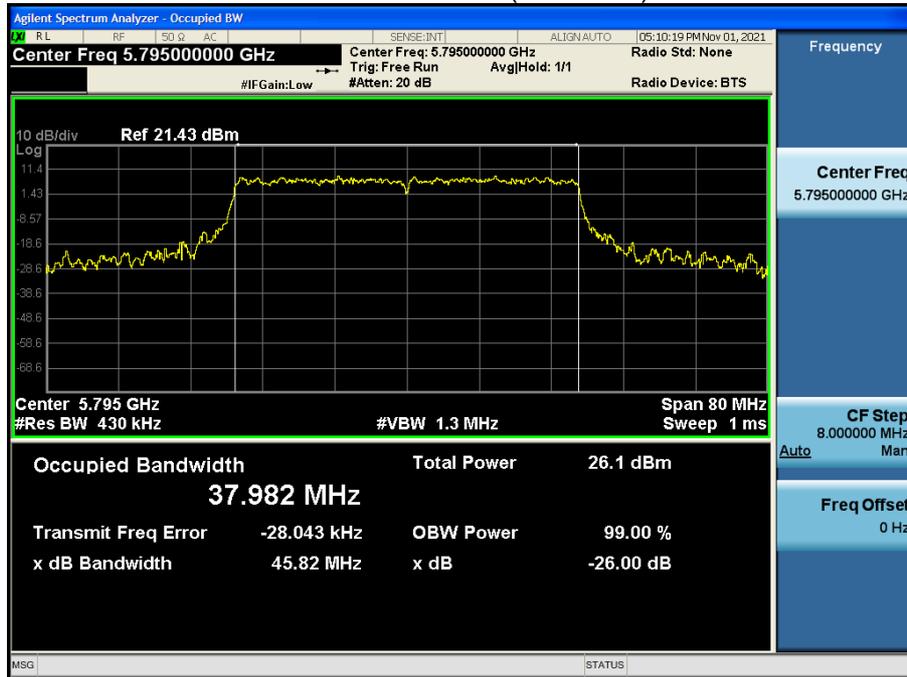
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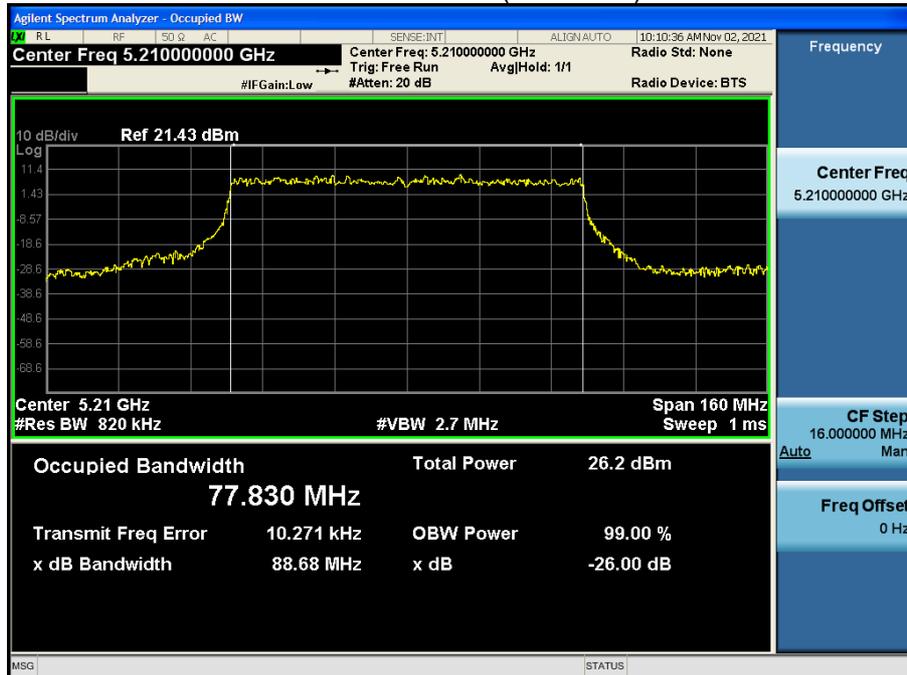
Bandwidth 40M Ch.151(5755 MHz) RU 65



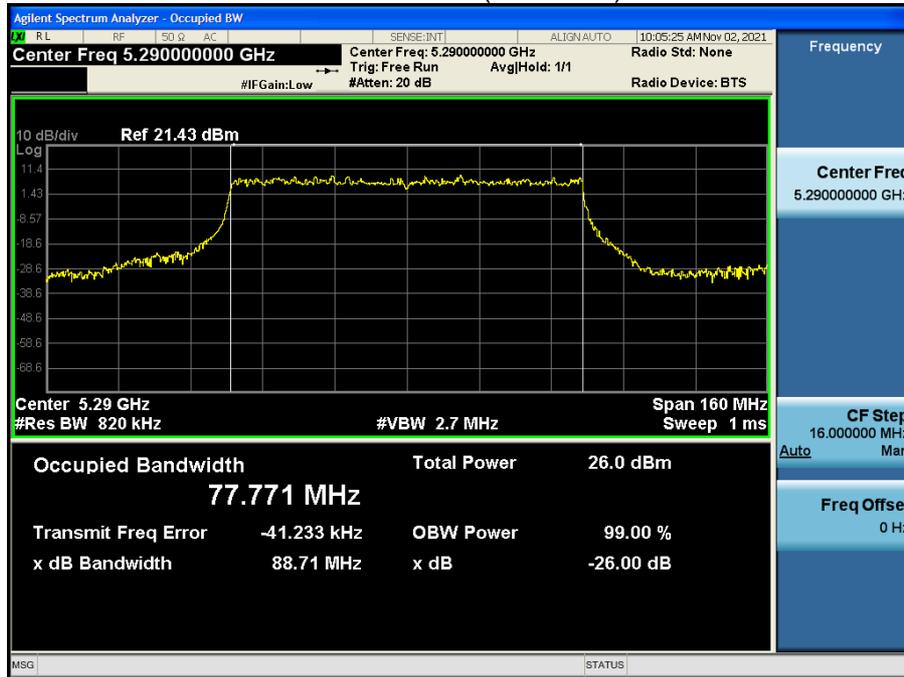
Bandwidth 40M Ch.159(5795 MHz) SU



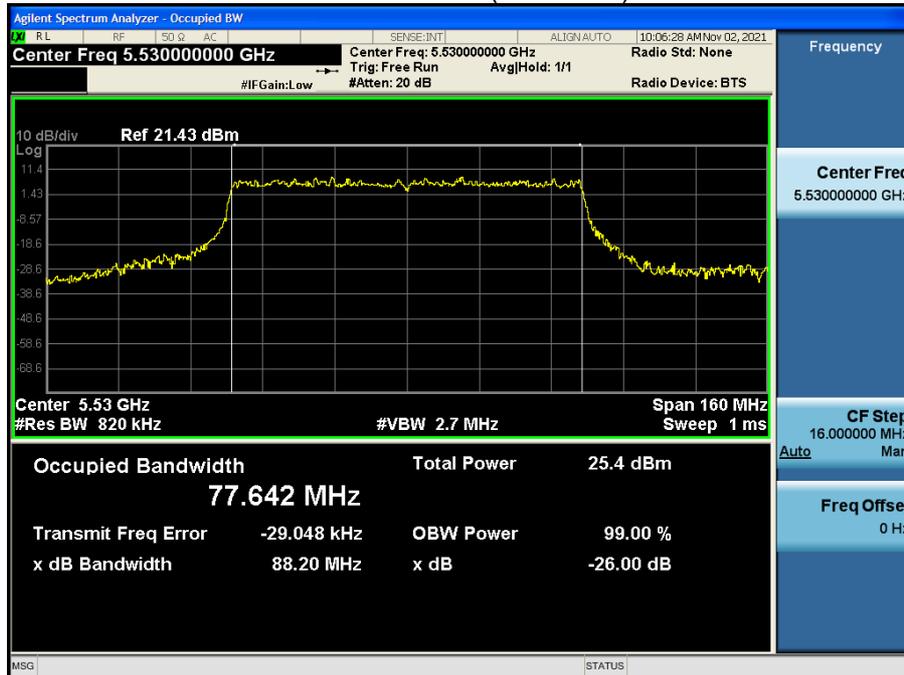
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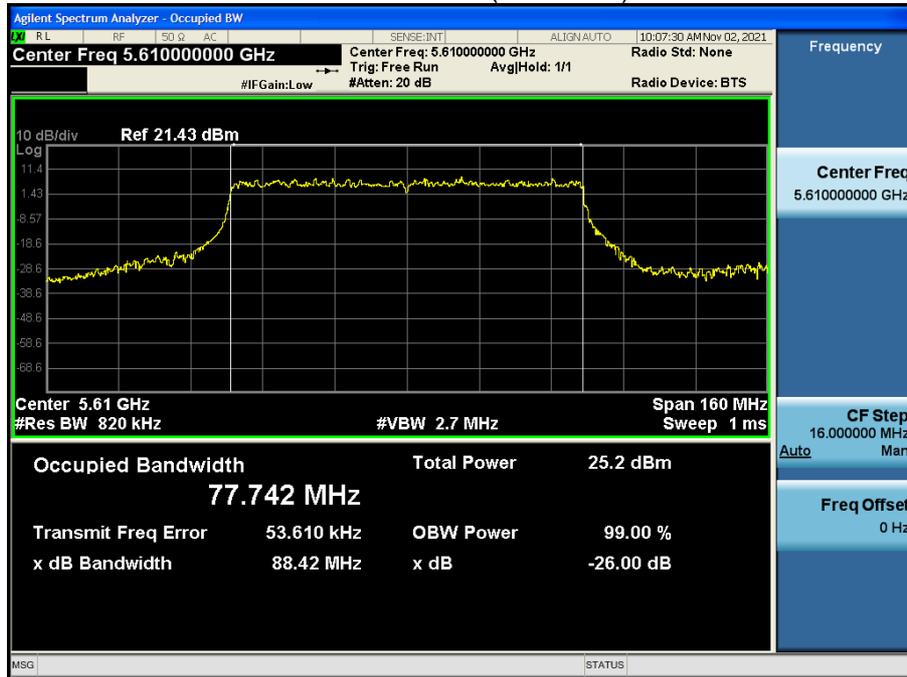
Bandwidth 80M Ch.58(5290 MHz) RU 67



Bandwidth 80M Ch.106(5530 MHz) RU 67



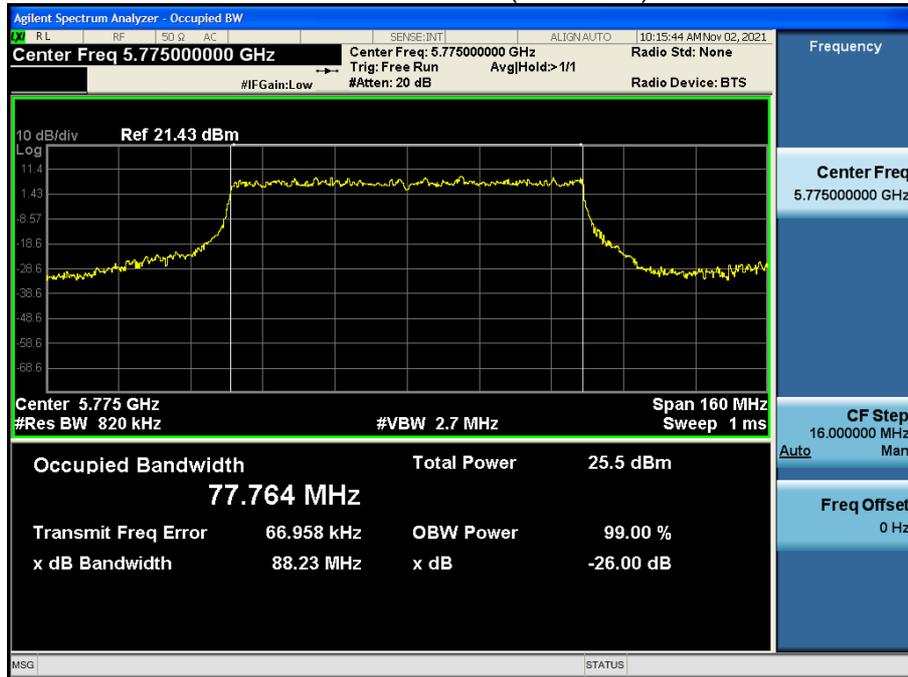
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Bandwidth 80M Ch.138(5690 MHz) SU

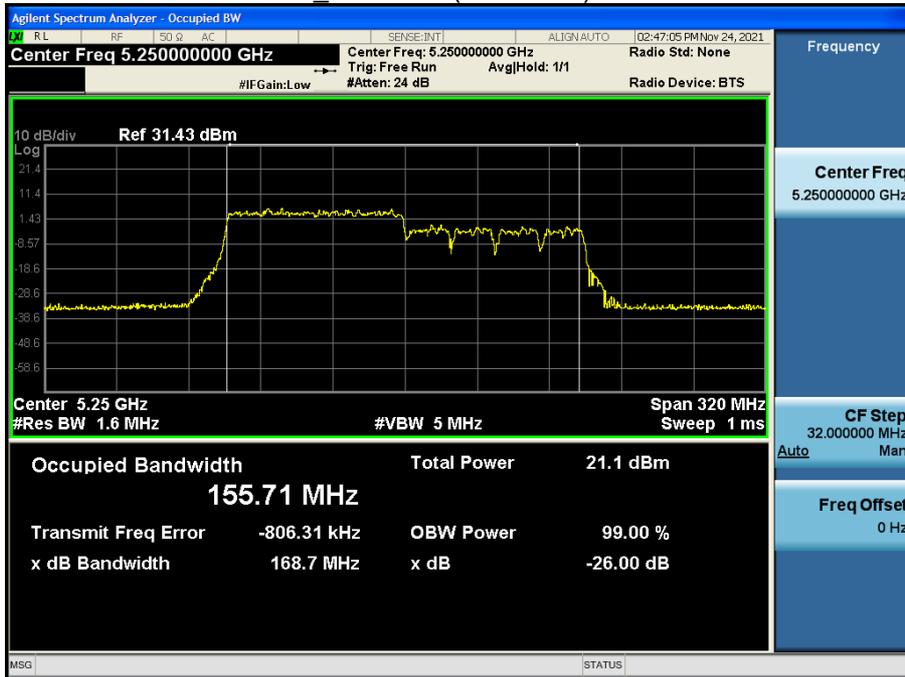


Bandwidth 80M Ch.155(5775 MHz) SU

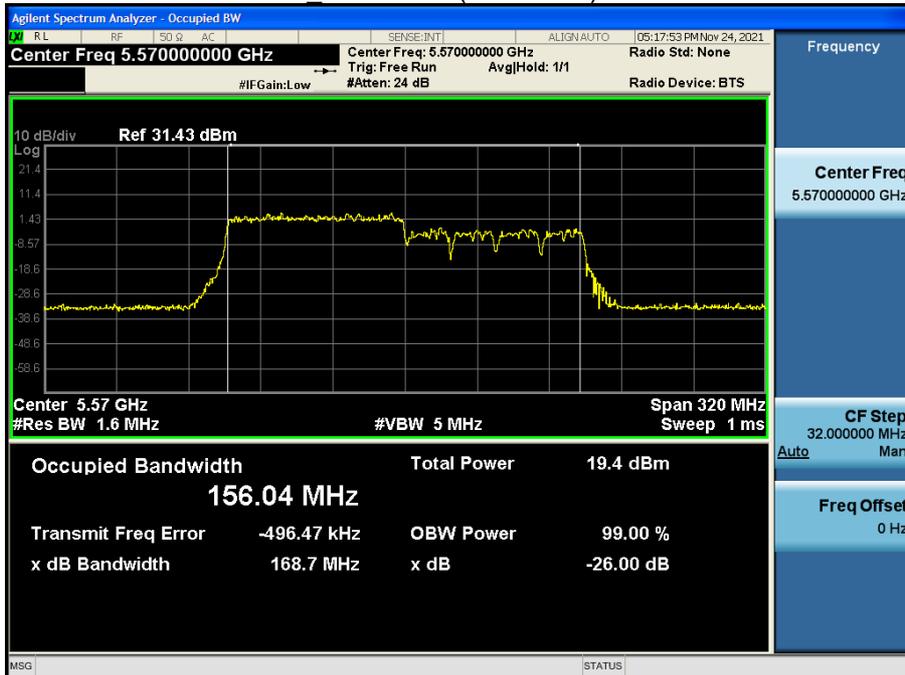


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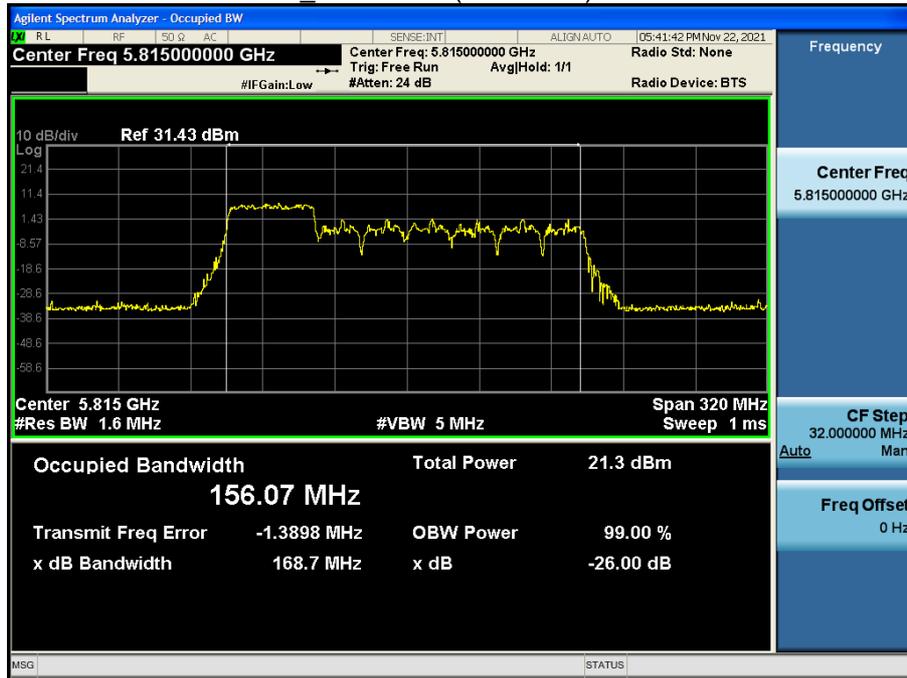
Bandwidth 160M\_80L Ch.50(5250 MHz) 996 Tones RU 67



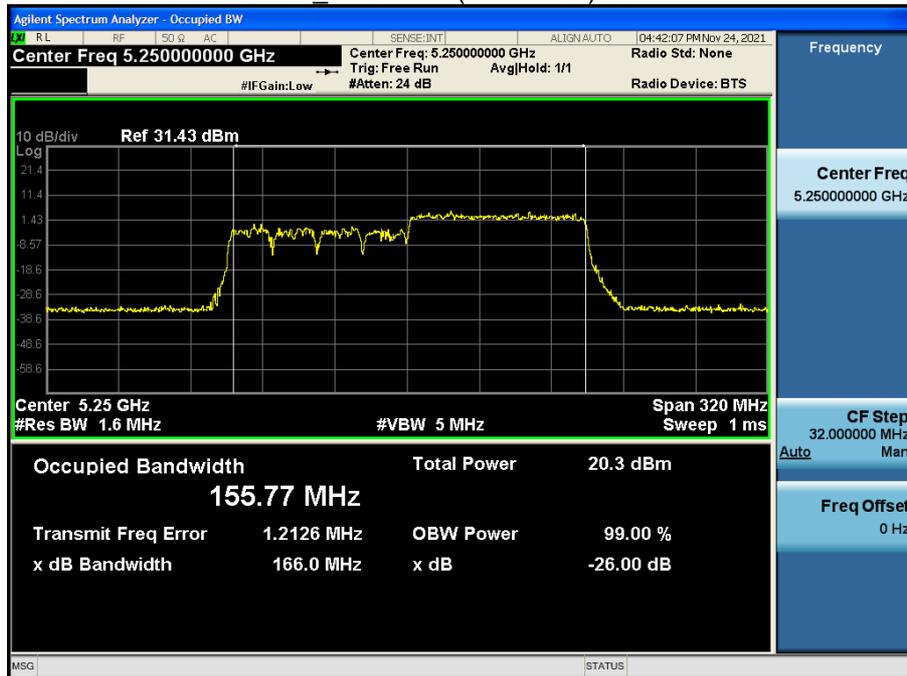
Bandwidth 160M\_80L Ch.114(5570 MHz) 996 Tones RU 67



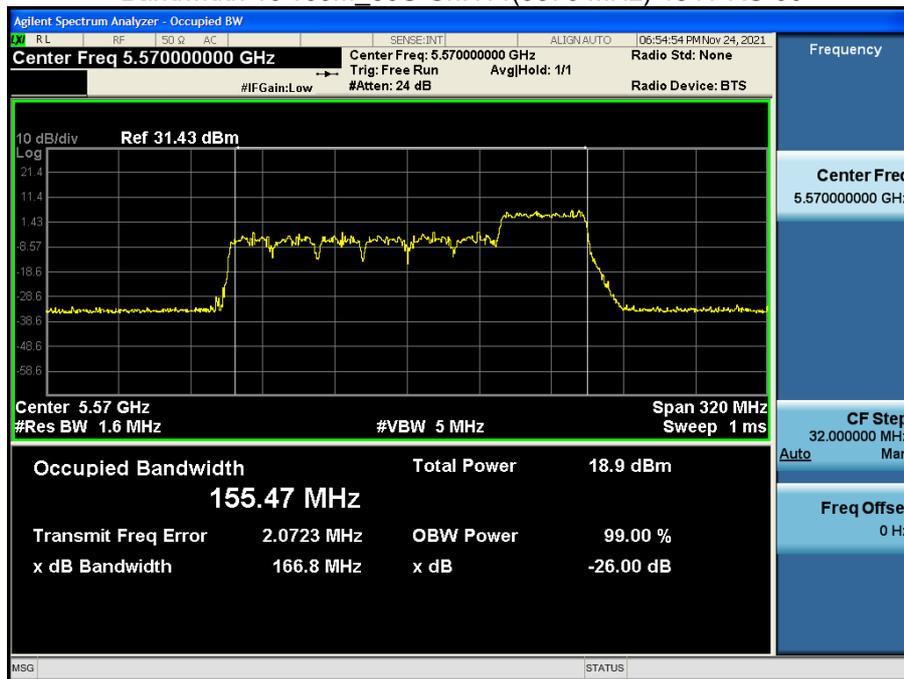
Bandwidth 160M\_80L Ch.163(5815 MHz) 484T Tones RU 65



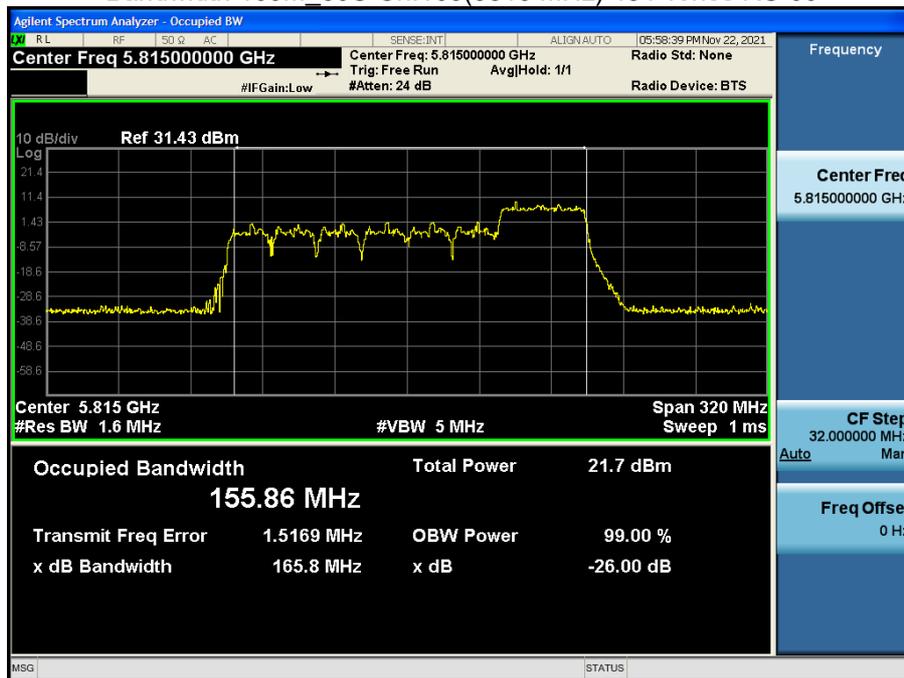
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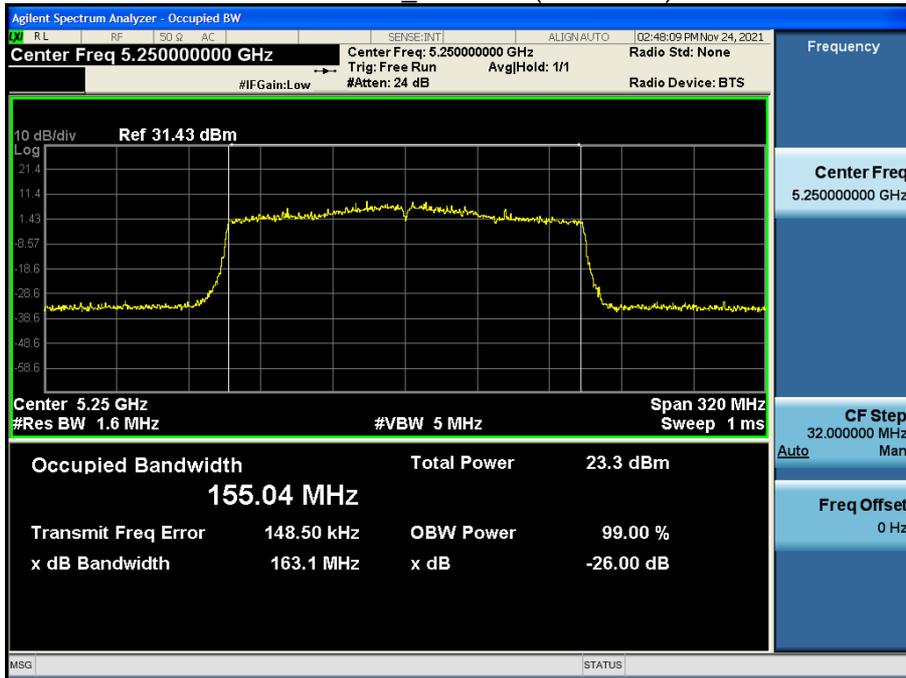
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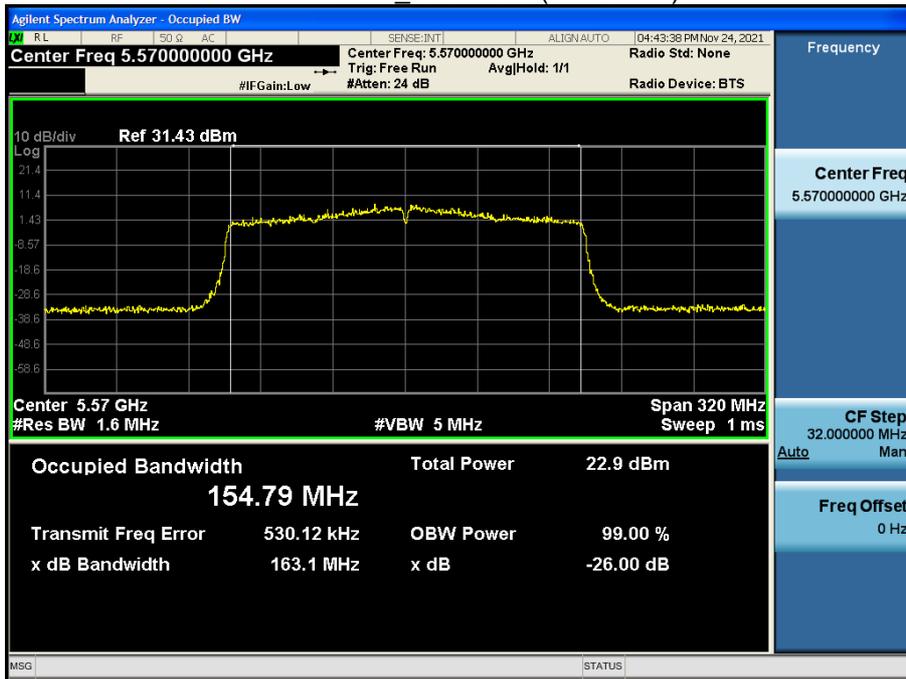
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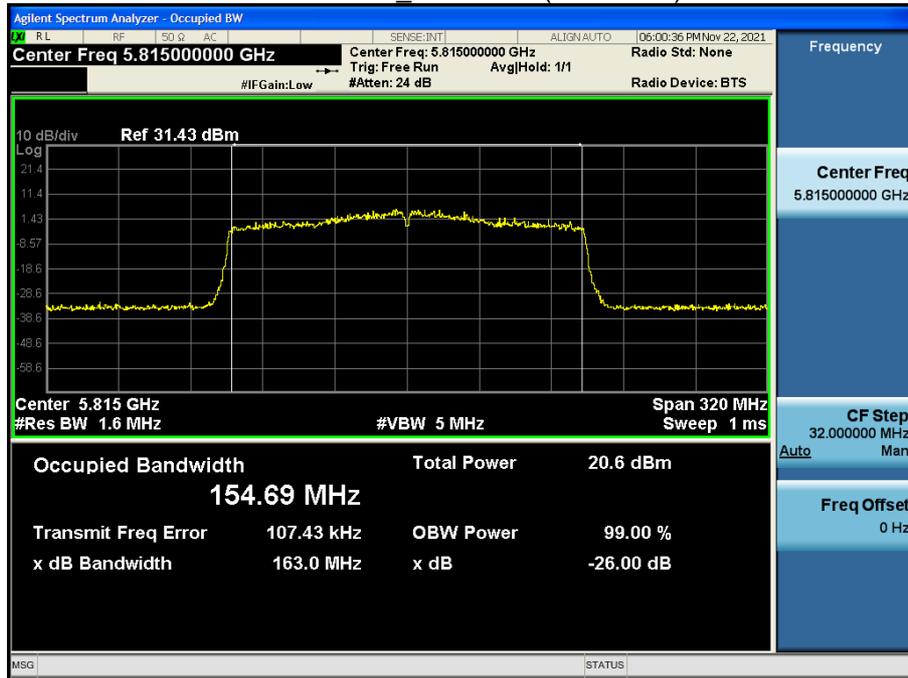
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Bandwidth 160M\_SU Ch.114(5570 MHz) SU

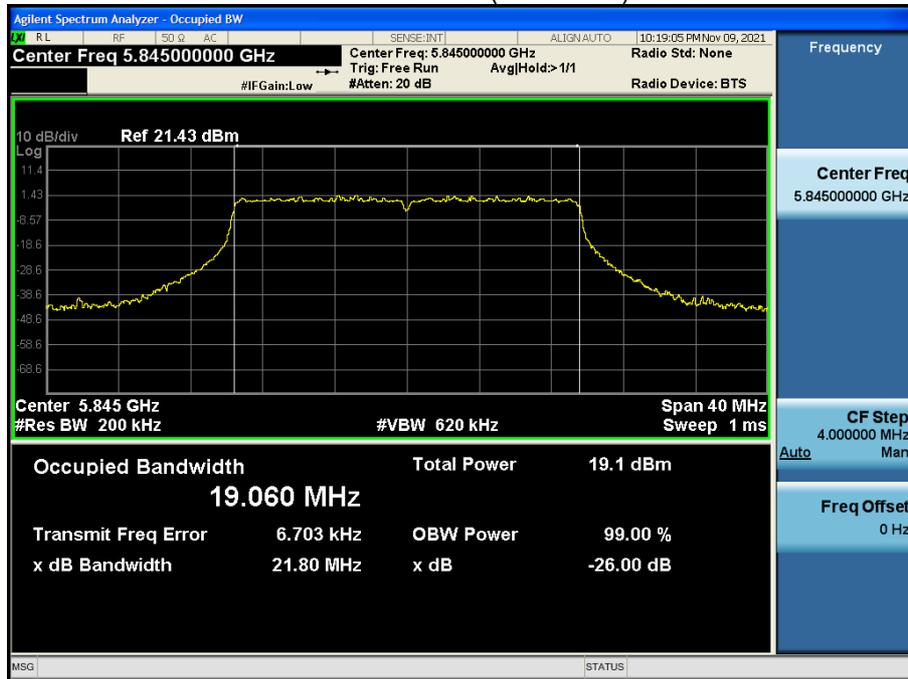


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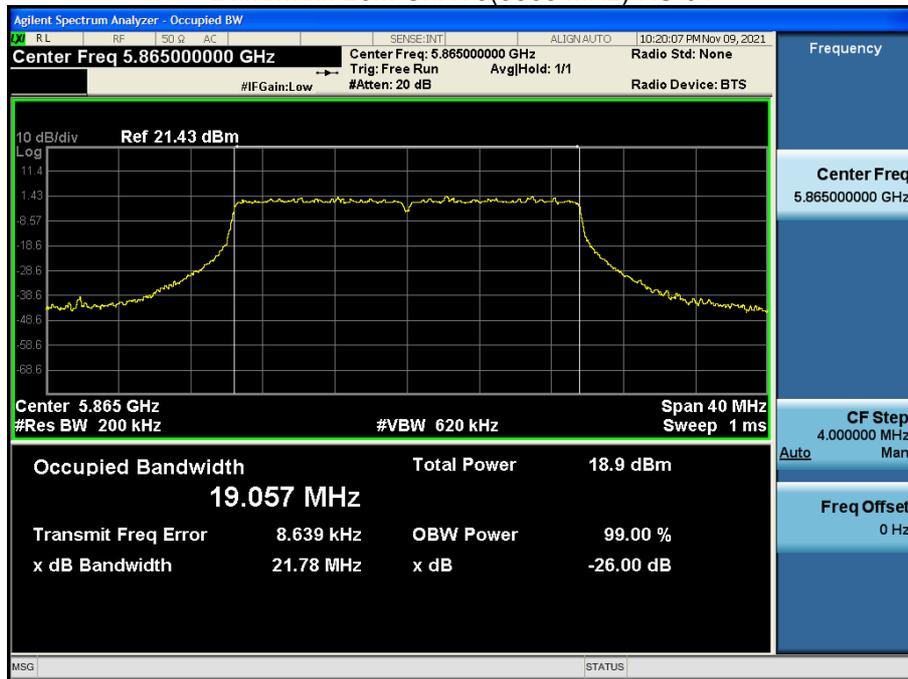


UNII-4 Band

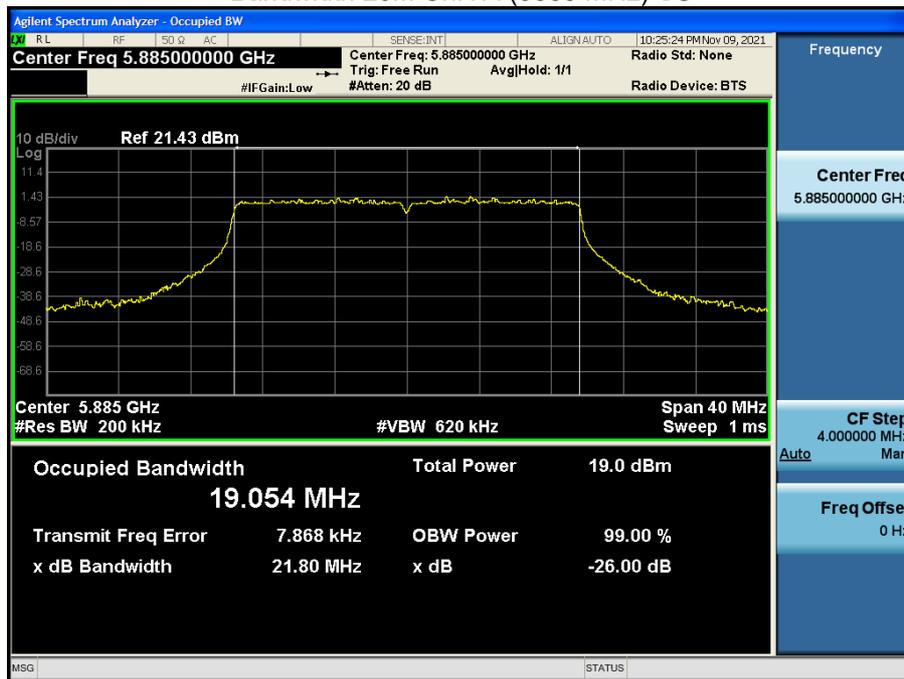
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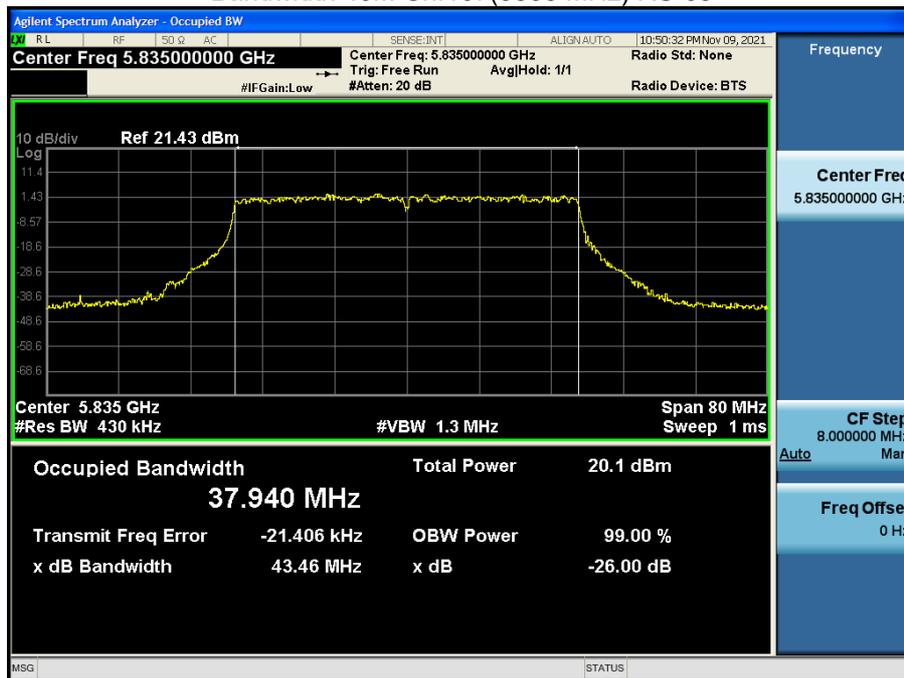
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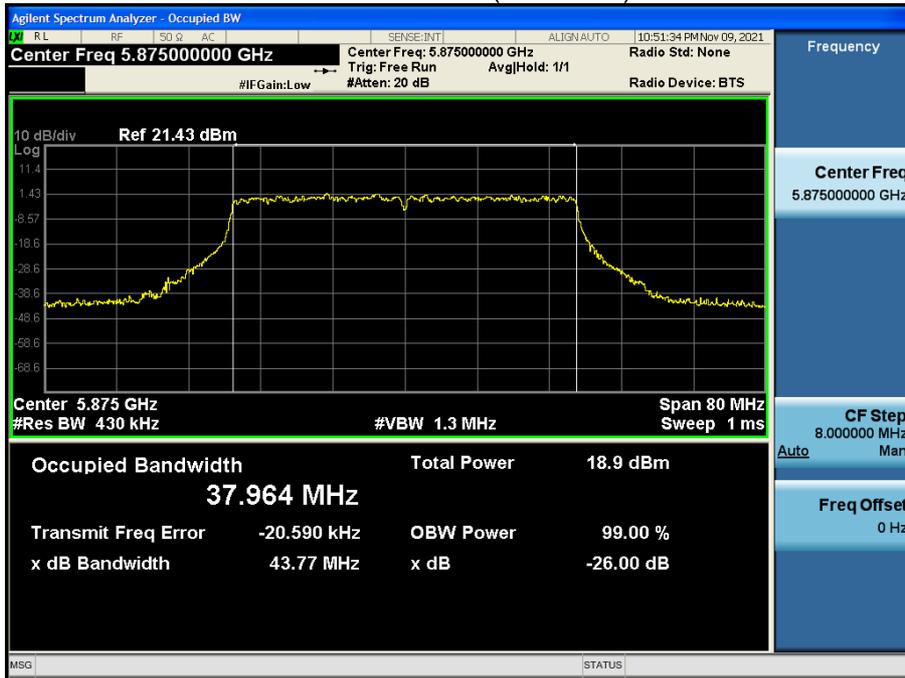
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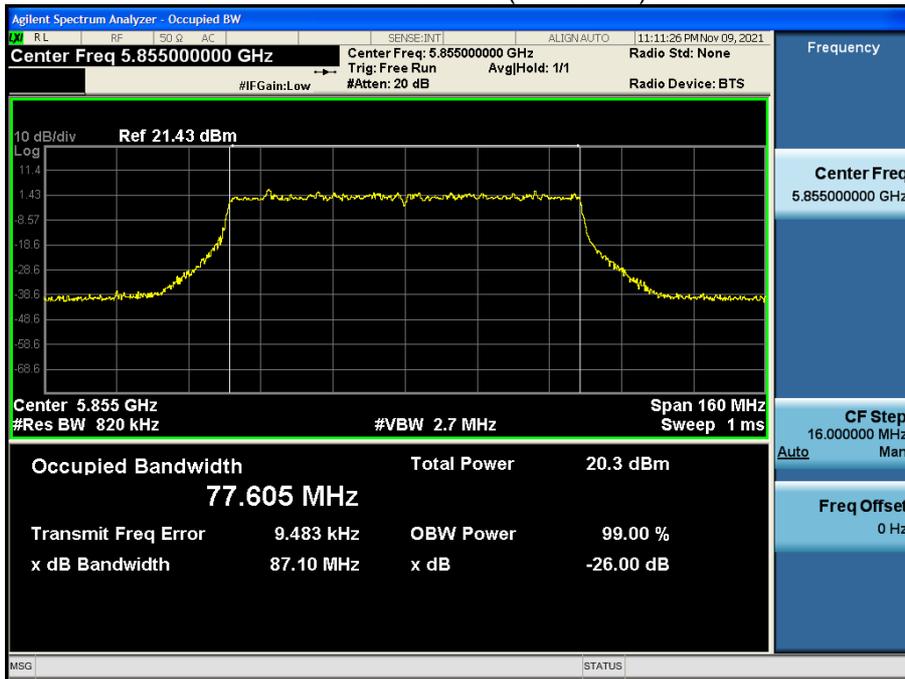
Bandwidth 40M Ch.167(5835 MHz) RU 65



Bandwidth 40M Ch.175 (5875 MHz) RU 65



Bandwidth 80M Ch.171(5855 MHz) SU



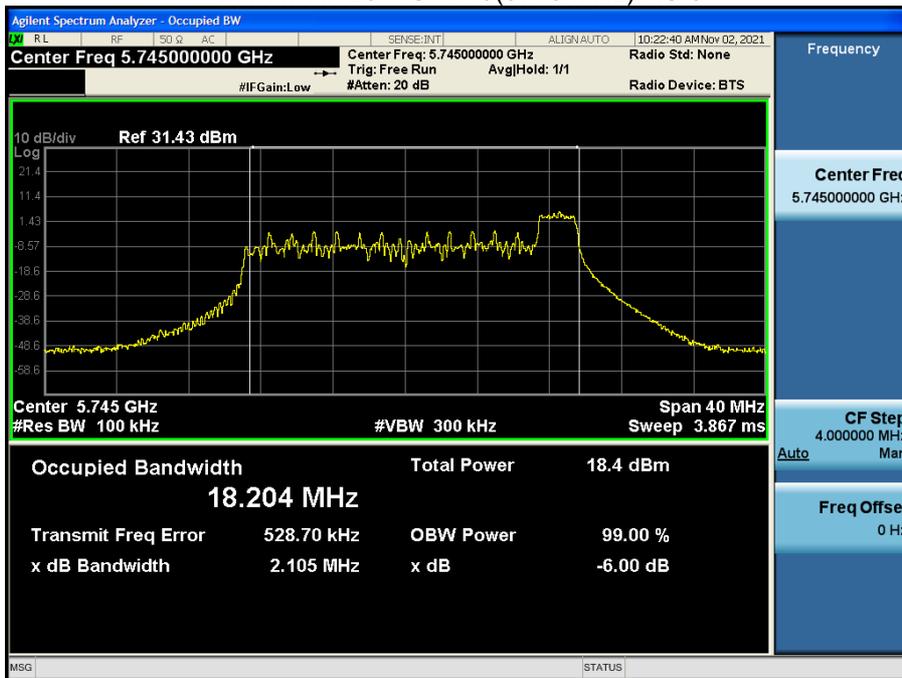
### 3. 6 dB Bandwidth

**Note:**

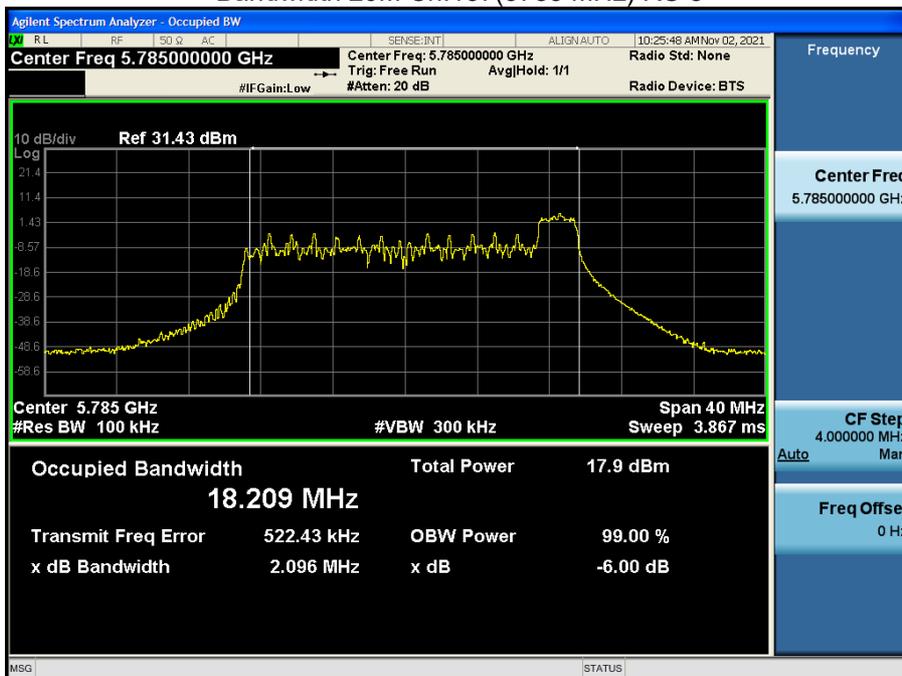
1. In order to simplify the report, attached plots were only (Worst Case: Ant.2).
2. In order to simplify the report, attached plots were only the narrowest channel bandwidth.

#### 3.1 MIMO Ant2

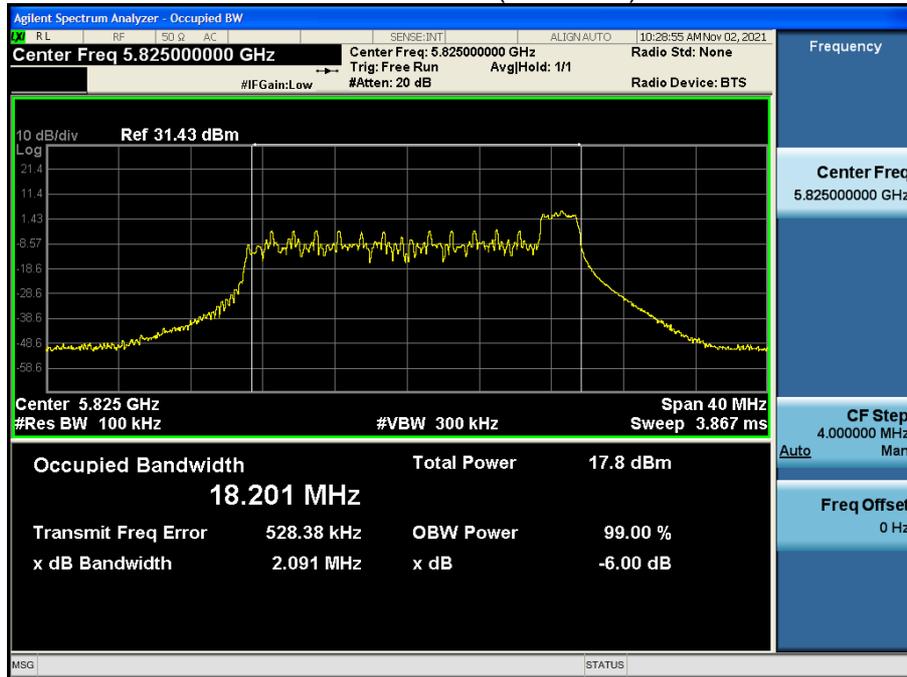
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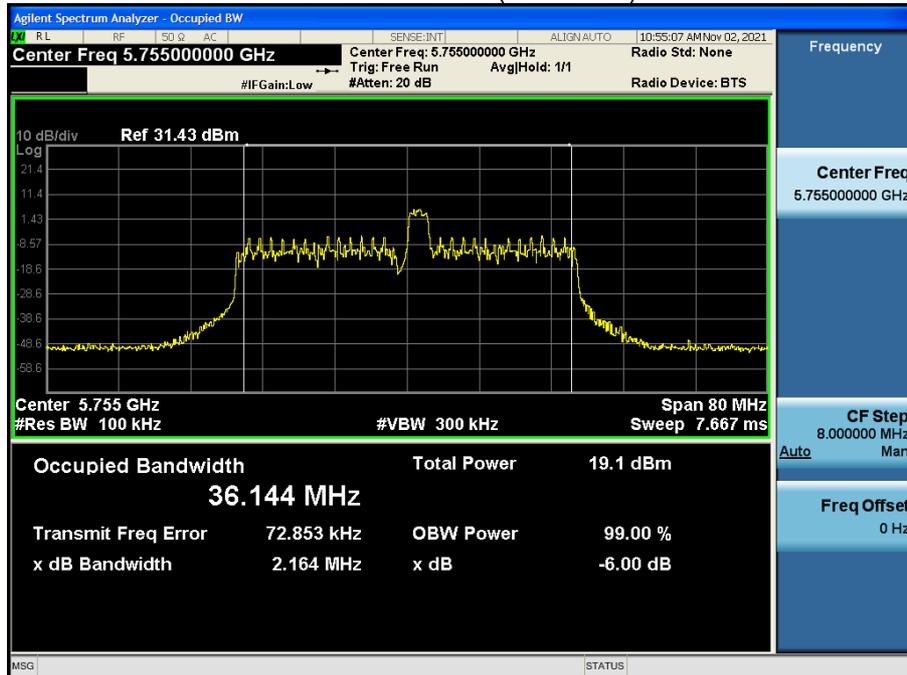
Bandwidth 20M Ch.157(5785 MHz) RU 8



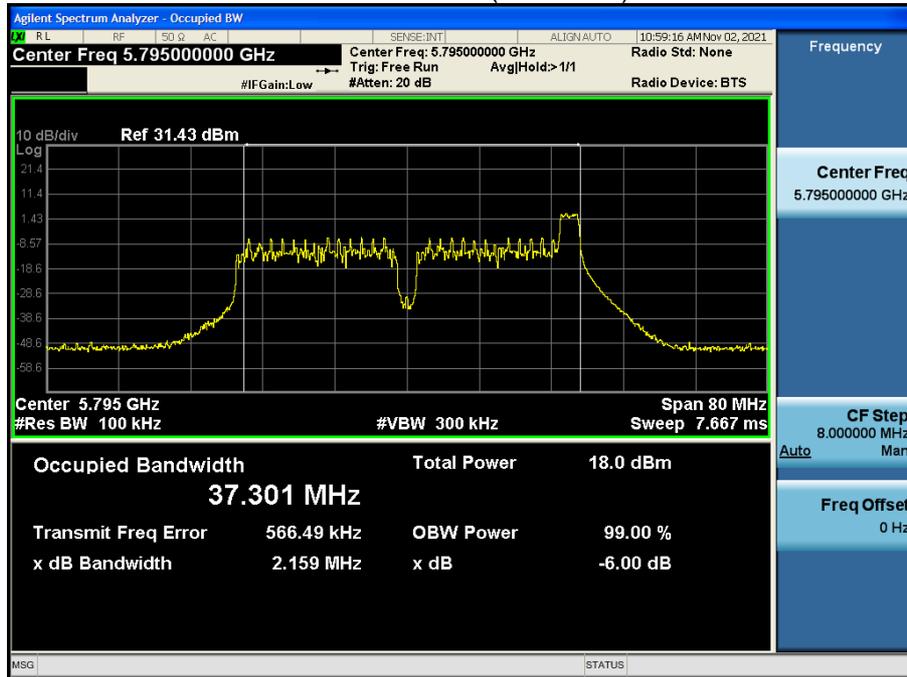
Bandwidth 20M Ch.165(5825 MHz) RU 8



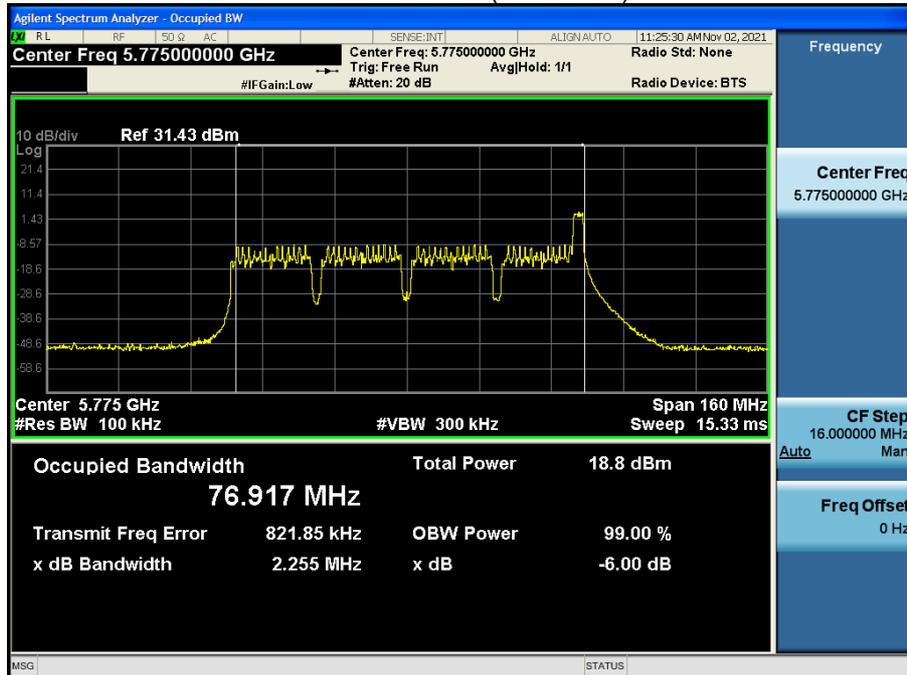
Bandwidth 40M Ch.151(5755 MHz) RU 9



Bandwidth 40M Ch.159(5795 MHz) RU 17

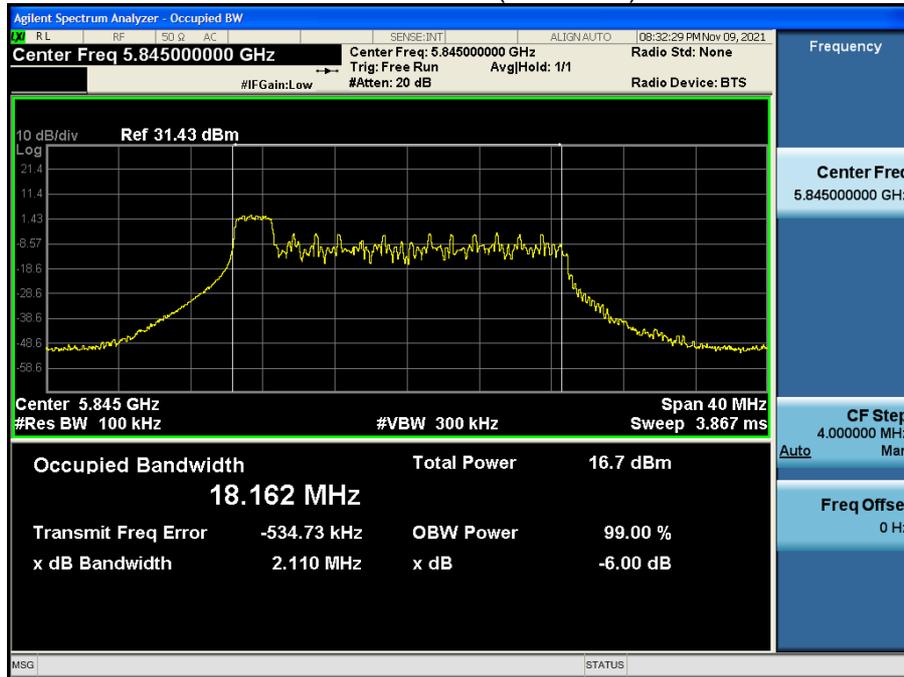


Bandwidth 80M Ch.155(5775 MHz) RU 36

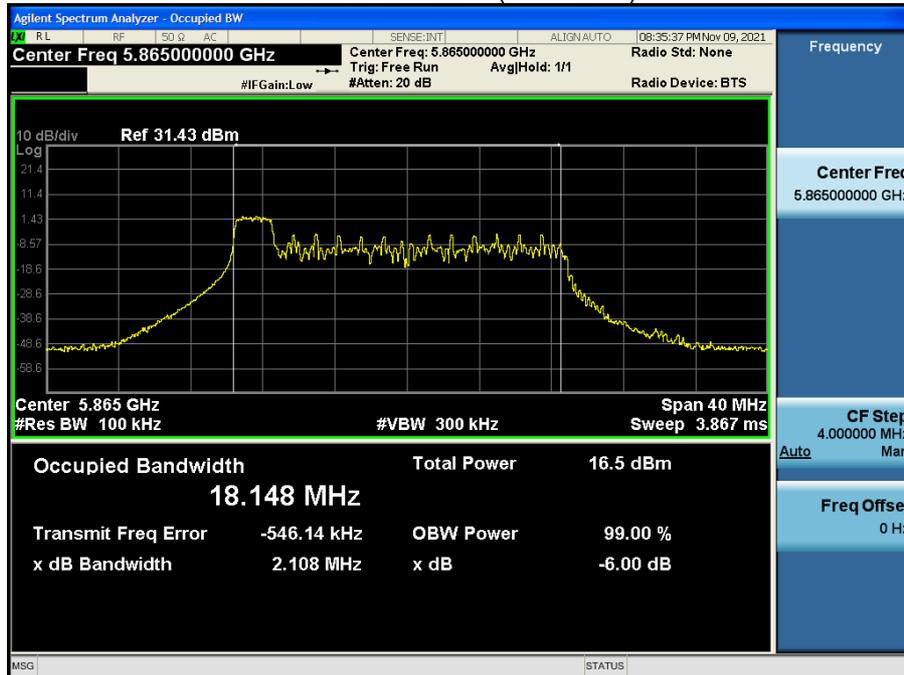


UNII-4 Band

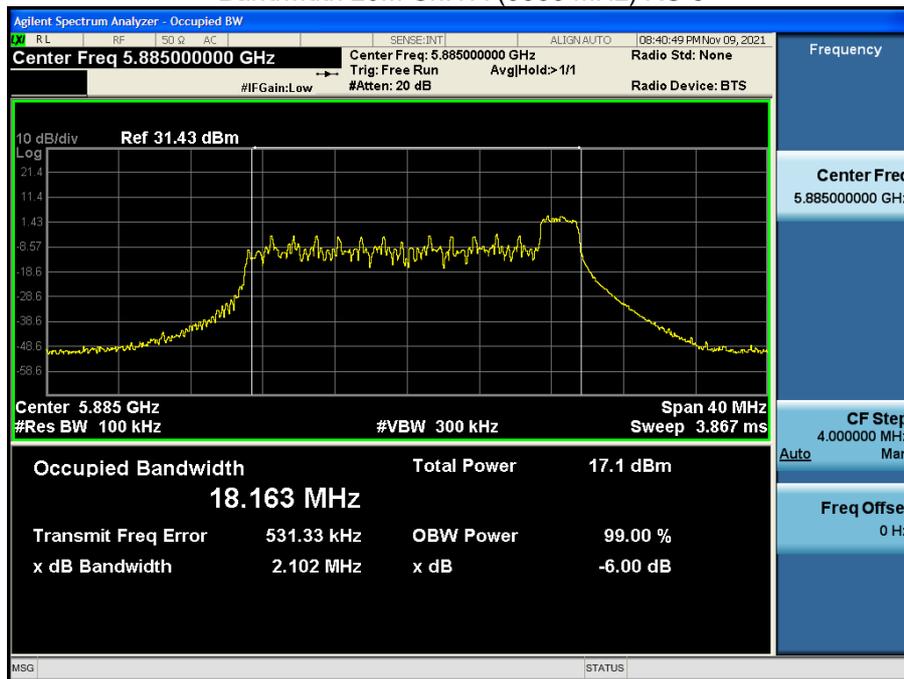
Bandwidth 20M Ch.169(5845 MHz) RU 0



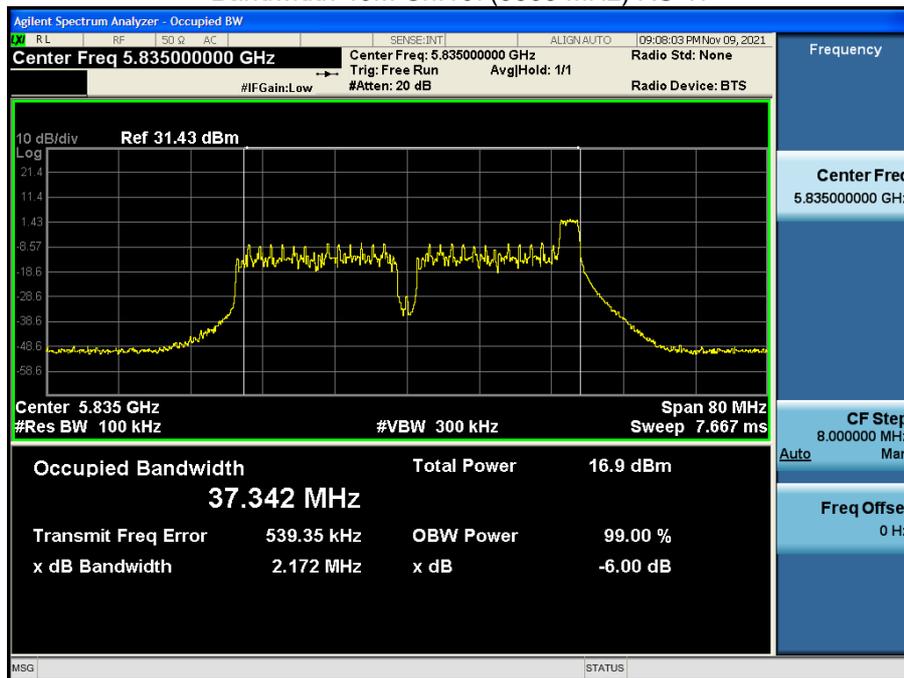
Bandwidth 20M Ch.173(5865 MHz) RU 0



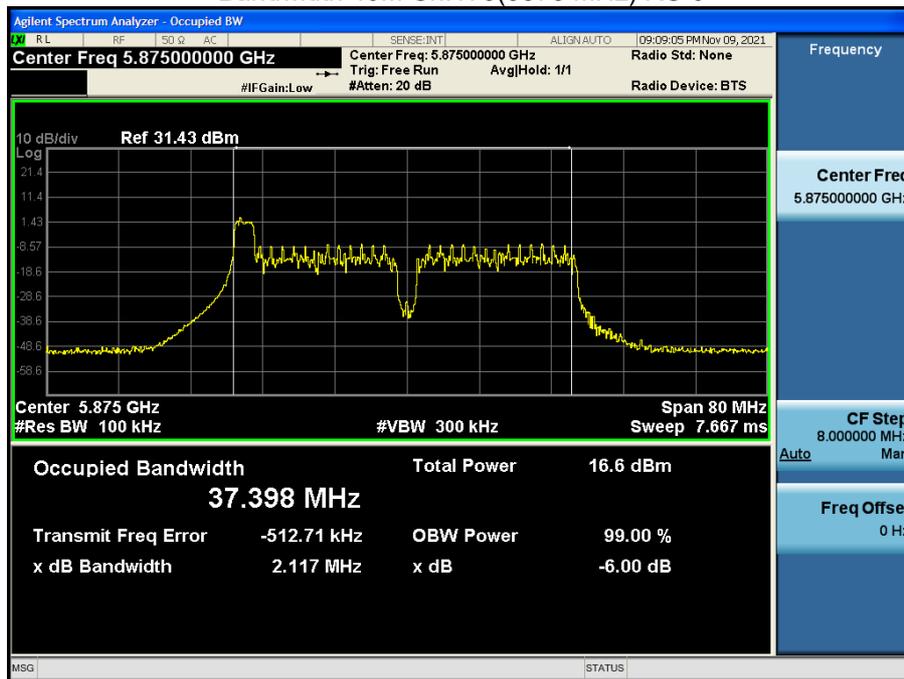
Bandwidth 20M Ch.177(5885 MHz) RU 8



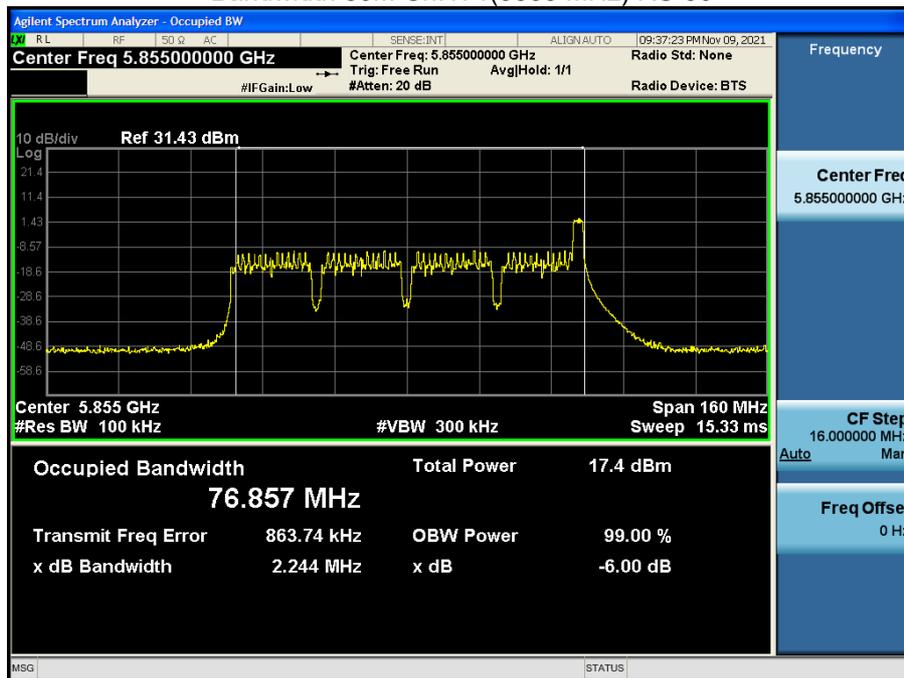
Bandwidth 40M Ch.167(5835 MHz) RU 17



Bandwidth 40M Ch.175(5875 MHz) RU 0

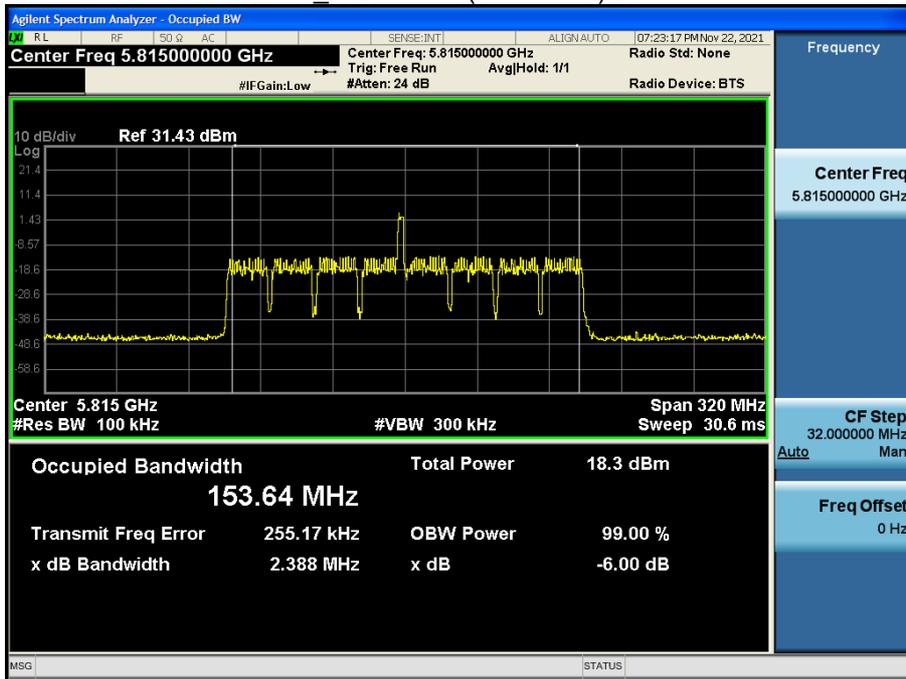


Bandwidth 80M Ch.171(5855 MHz) RU 36

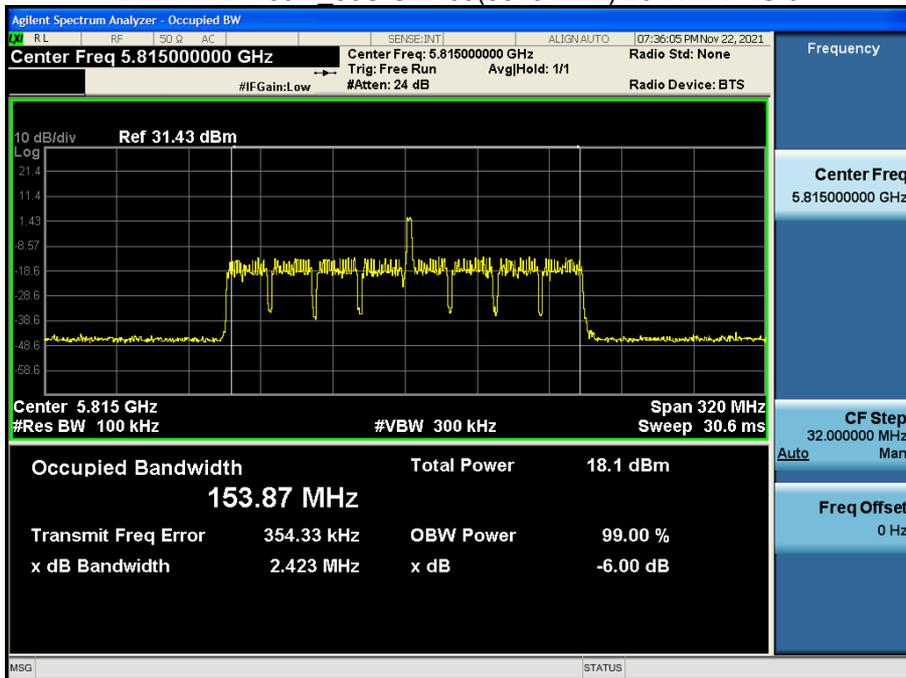


**Bandwidth 160M**

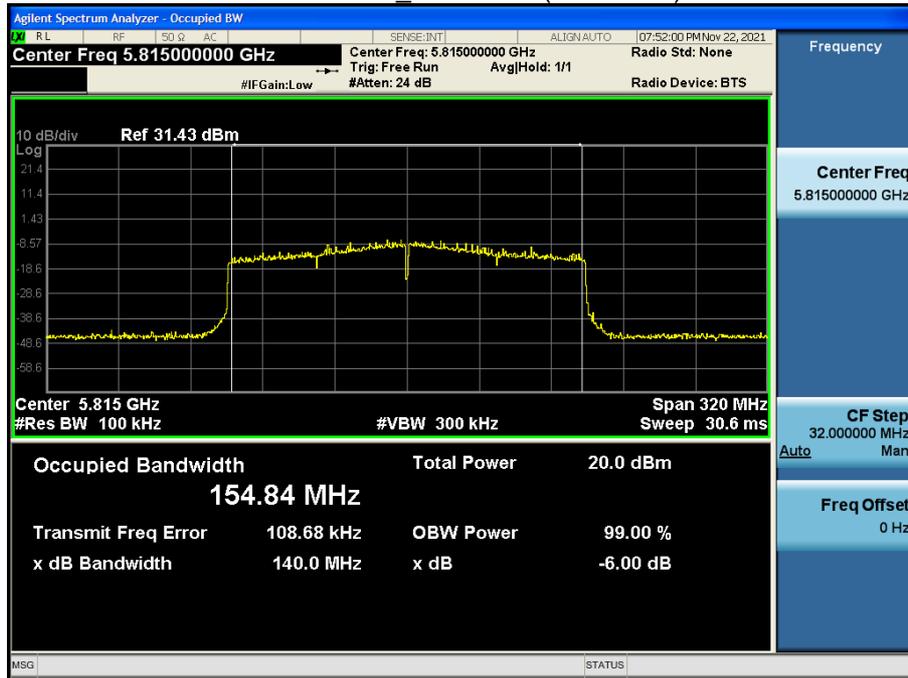
Bandwidth 160M 80L Ch.163(5815 MHz) 26 Tones RU 36



Bandwidth 160M 80U Ch.163(5815 MHz) 26 Tones RU 0



Bandwidth 160M\_SU Ch.163(5815 MHz) SU

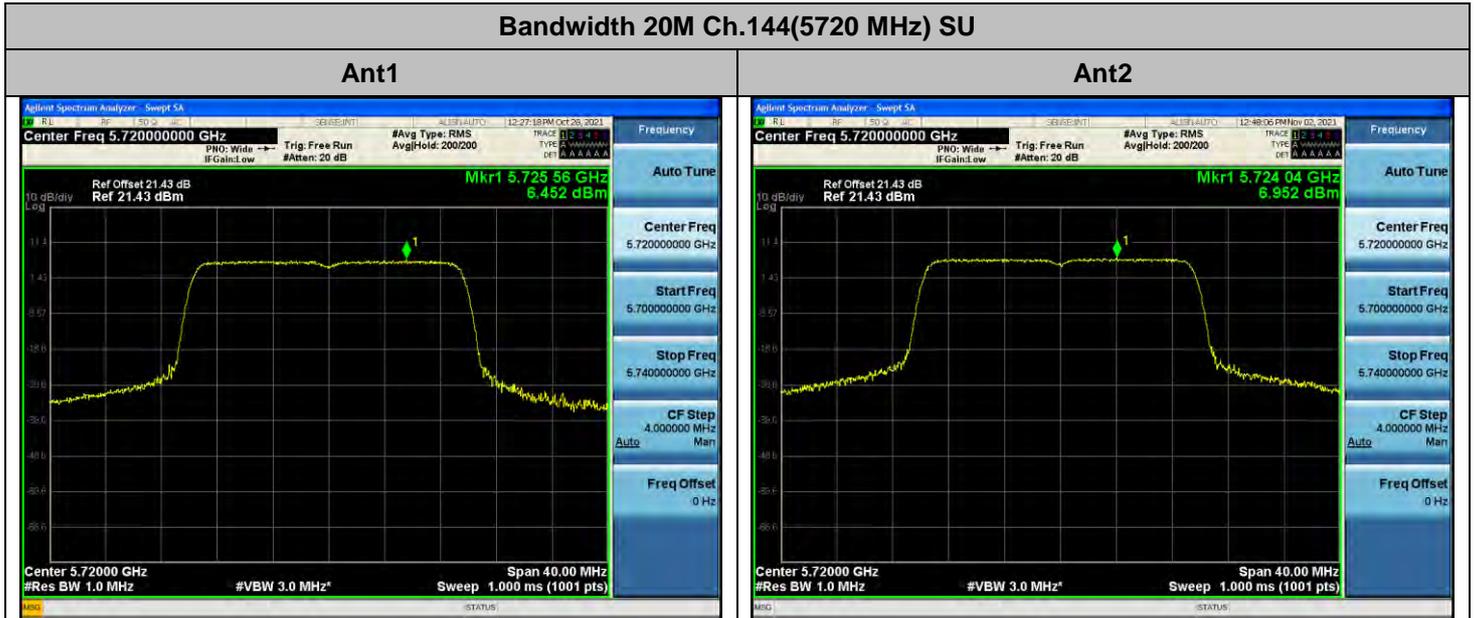


### 4. Power Spectral Density

**Note:**

1. In order to simplify the report, attached plots were only channel of highest PSD.

#### 4.1 SUM (MIMO Ant 1 + MIMO Ant 2)

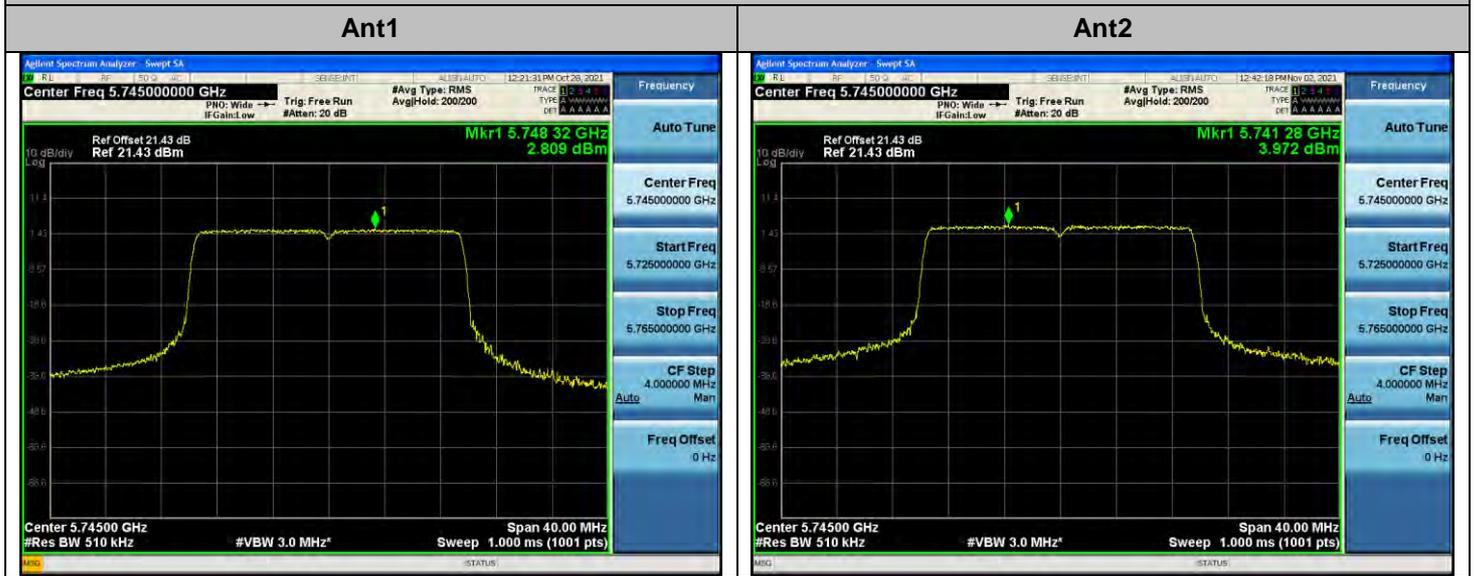


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
9.719	0.028	9.747

**Note:**

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 20M Ch.149 (5745 MHz) RU 61

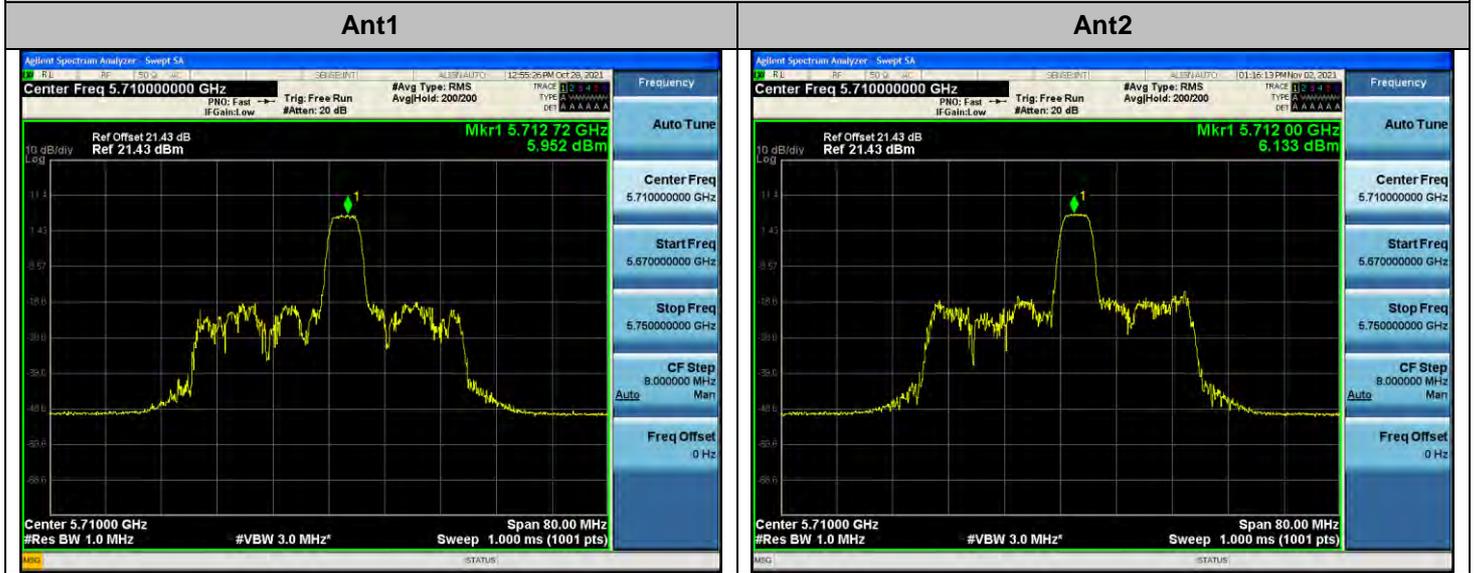


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.440	0.032	6.472

**Note:**

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

**Bandwidth 40M Ch.142 (5710 MHz) RU 41**

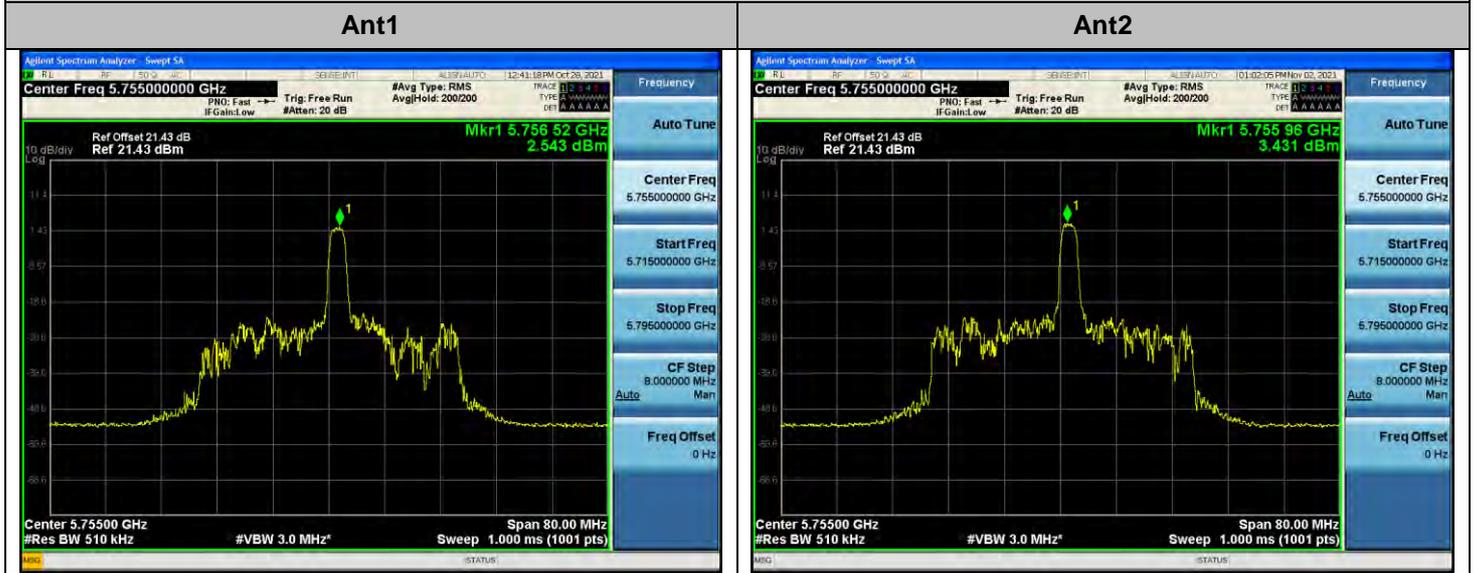


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
9.054	0.025	9.079

**Note:**

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

**Bandwidth 40M Ch.151 (5755 MHz) RU 9**

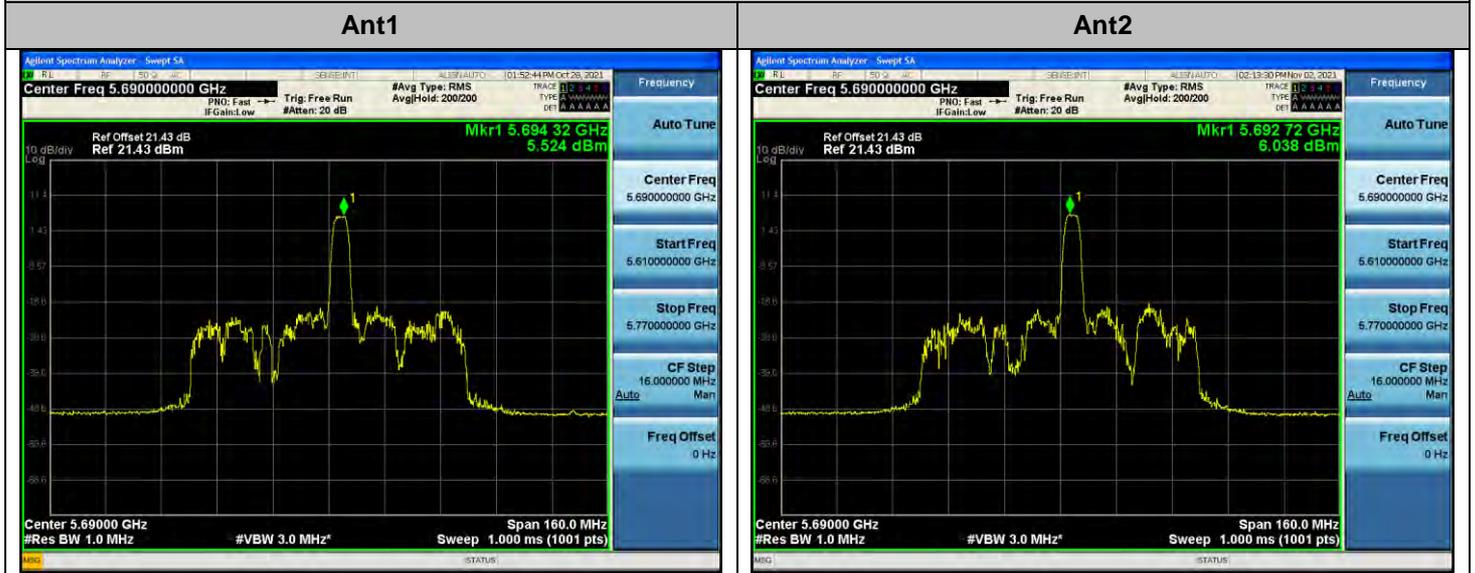


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
6.020	0.025	6.045

**Note:**

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

**Bandwidth 80M Ch.138 (5690 MHz) RU 45**

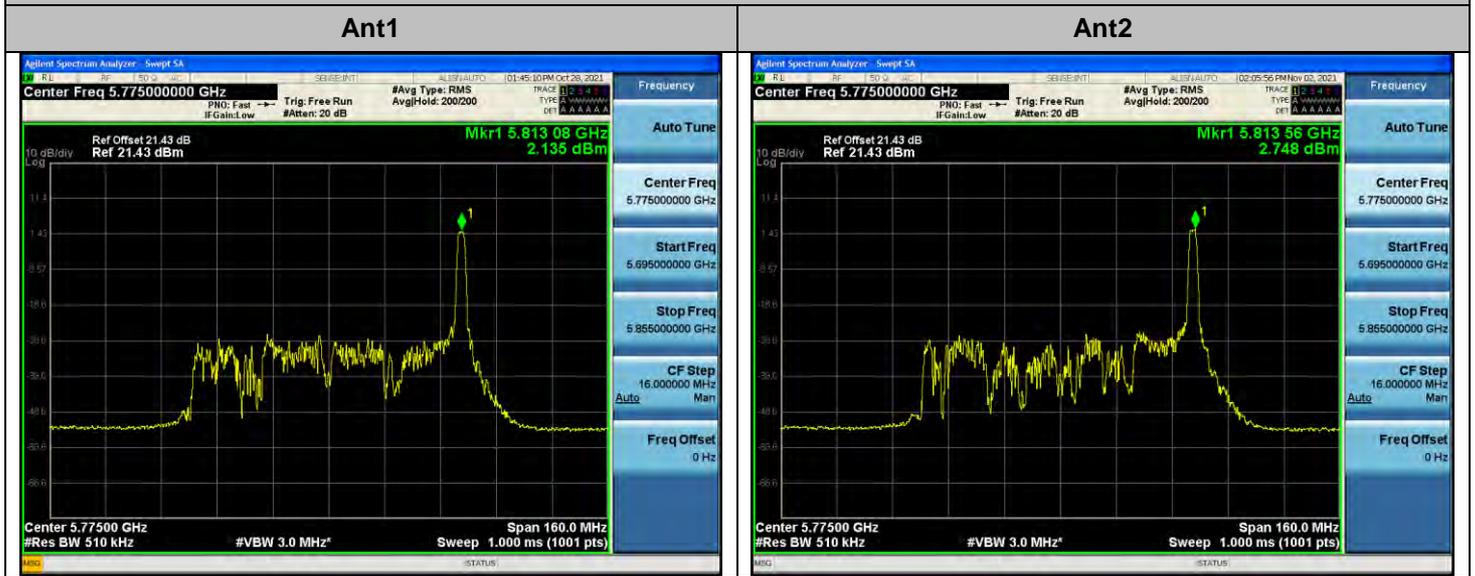


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
8.799	0.030	8.829

**Note:**

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 80M Ch.155 (5775 MHz) RU 36

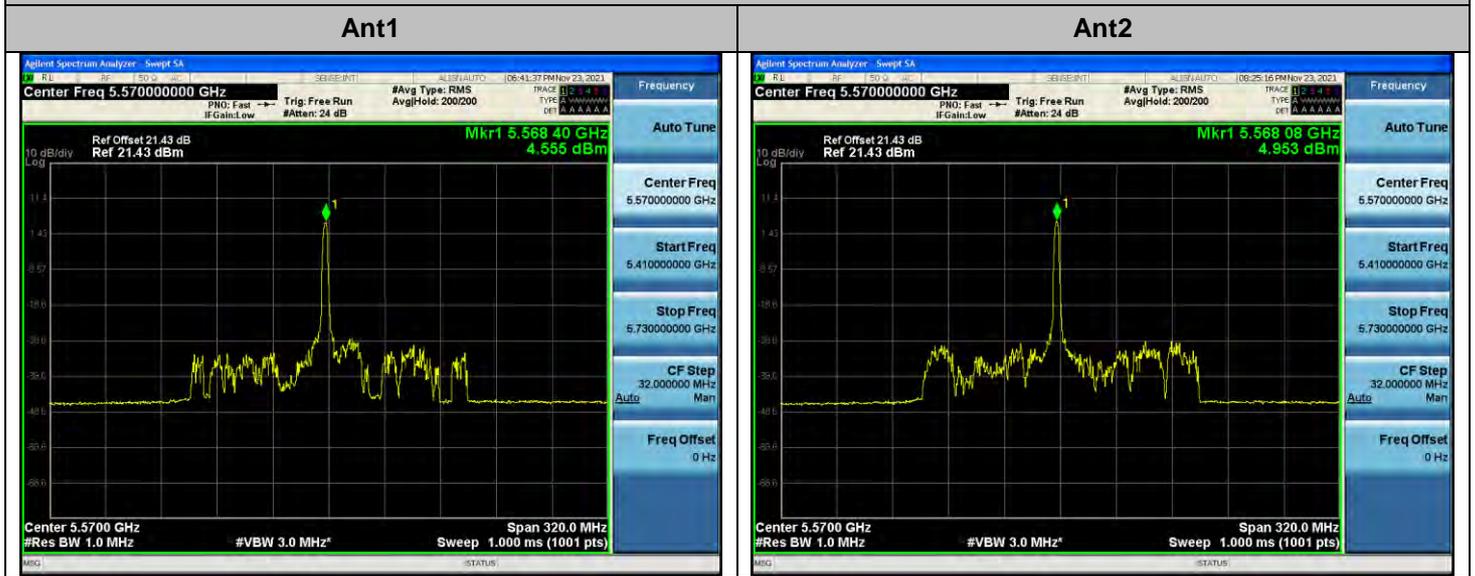


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
5.462	0.030	5.492

**Note:**

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 160M\_80L Ch.114 (5570 MHz) 26 Tones RU 36

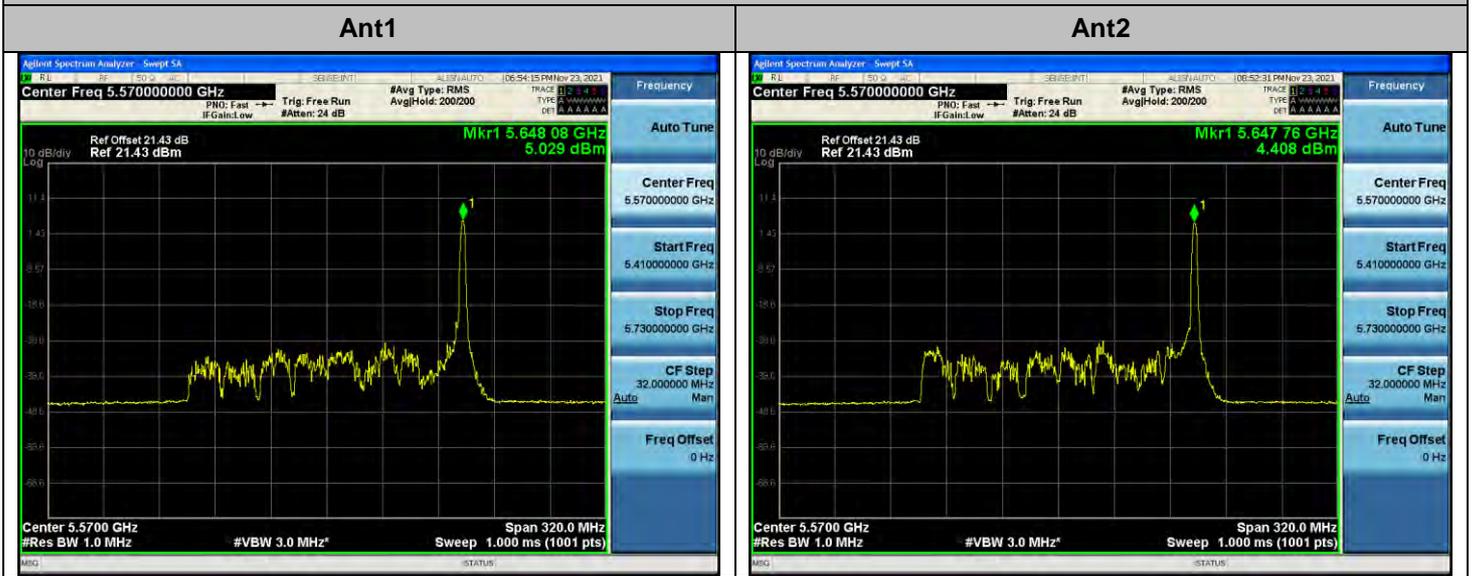


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
7.731	0.038	7.807

**Note:**

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 160M\_80U Ch.114 (5570 MHz) 26T RU 36

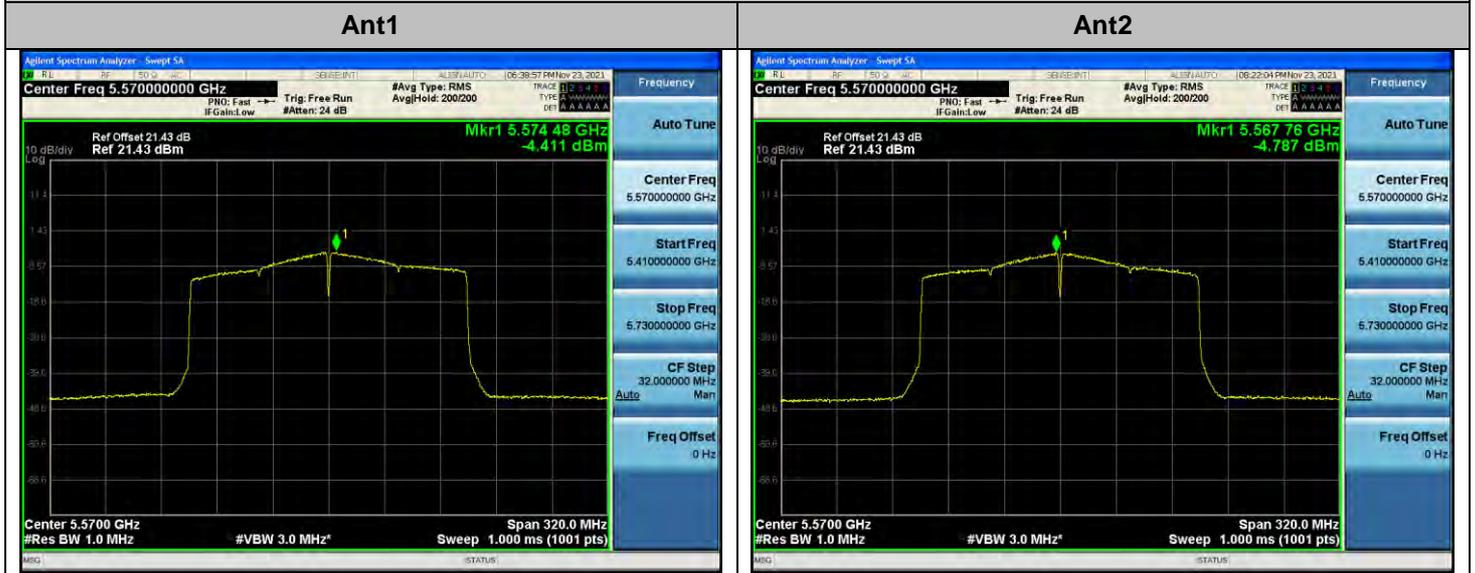


SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
7.740	0.038	7.778

**Note:**

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

Bandwidth 160M\_SU Ch.114 (5570 MHz) SU



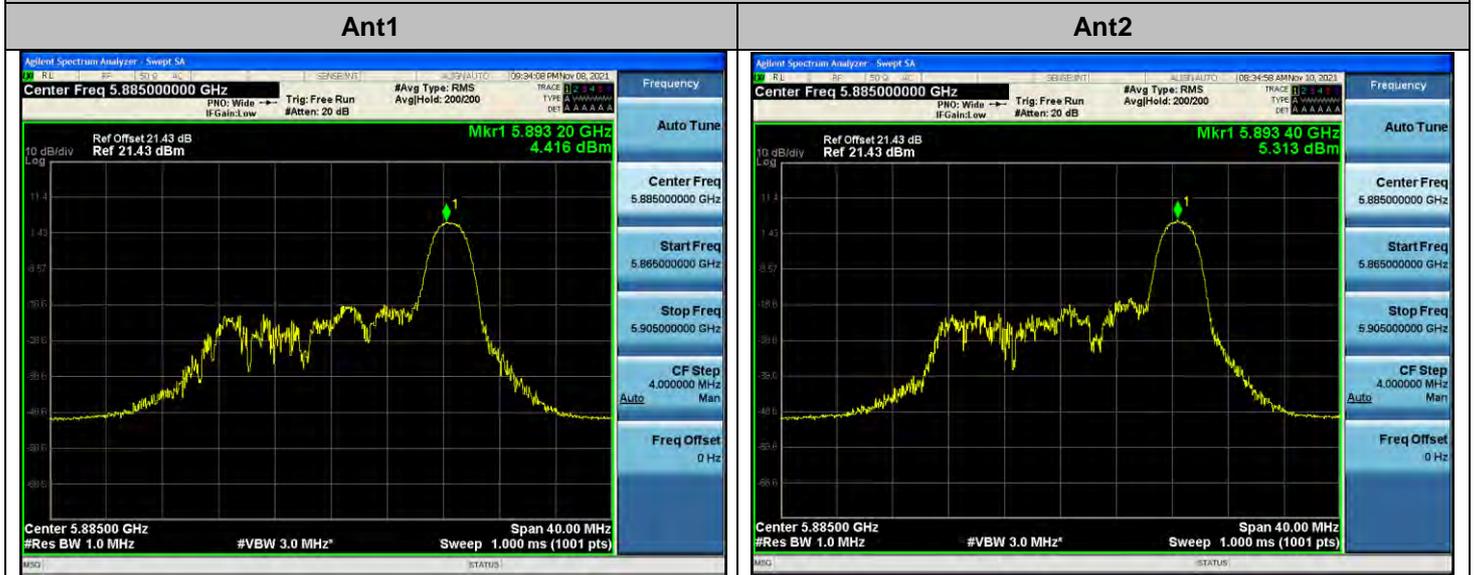
SUM PSD (dBm)	Duty Cycle Factor (dB)	Total PSD (dBm)
-1.585	0.015	-1.570

**Note:**

Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)

UNII-4 Band(EIRP)

Bandwidth 20M Ch.177 (5885 MHz) RU 8

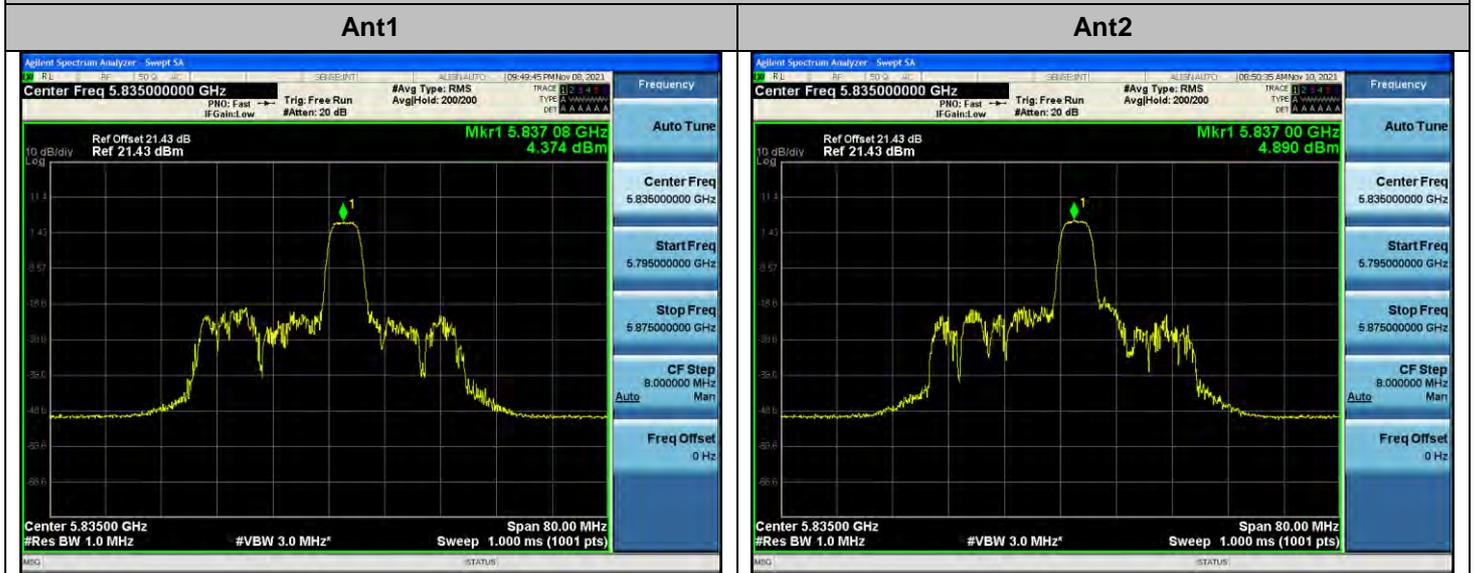


Total PSD (dBm)	ANT Gain (dB)	EIRP SUM PSD (dBm)
7.927	-3.52	4.407

**Note:**

1. Duty Cycle Factor (dB): 0.030
2. Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)
3. EIRP SUM PSD (dBm) = Total PSD (dBm) + Directional Gain (dBi)

**Bandwidth 40M Ch.167 (5835 MHz) RU 41**



Total PSD (dBm)	ANT Gain (dB)	EIRP SUM PSD (dBm)
7.677	-3.52	4.157

**Note:**

1. Duty Cycle Factor (dB): 0.025
2. Total PSD (dBm) = Measured Value (dBm) + Duty Cycle Factor (dB)
3. EIRP SUM PSD (dBm) = Total PSD (dBm) + Directional Gain (dBi)