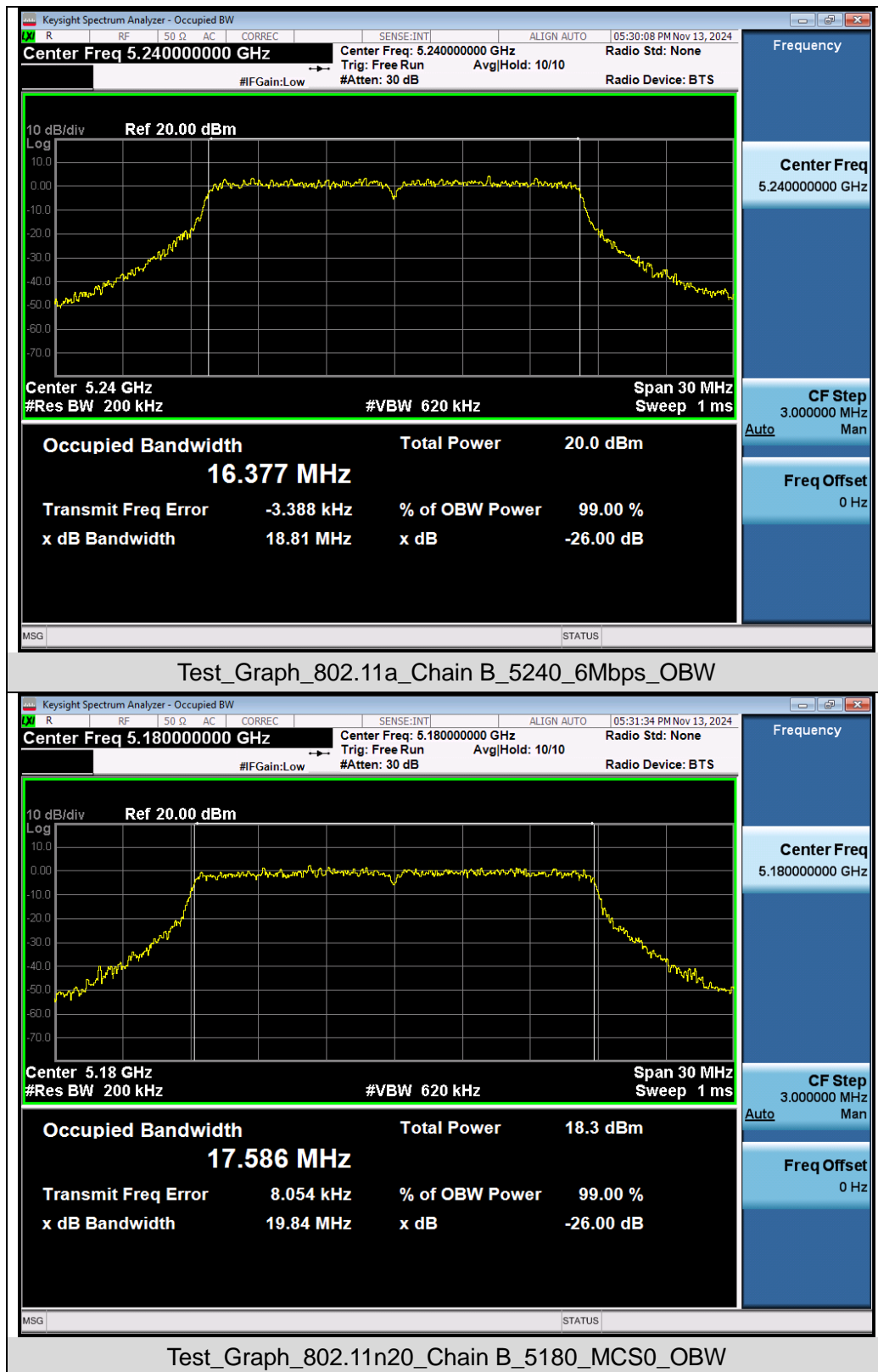


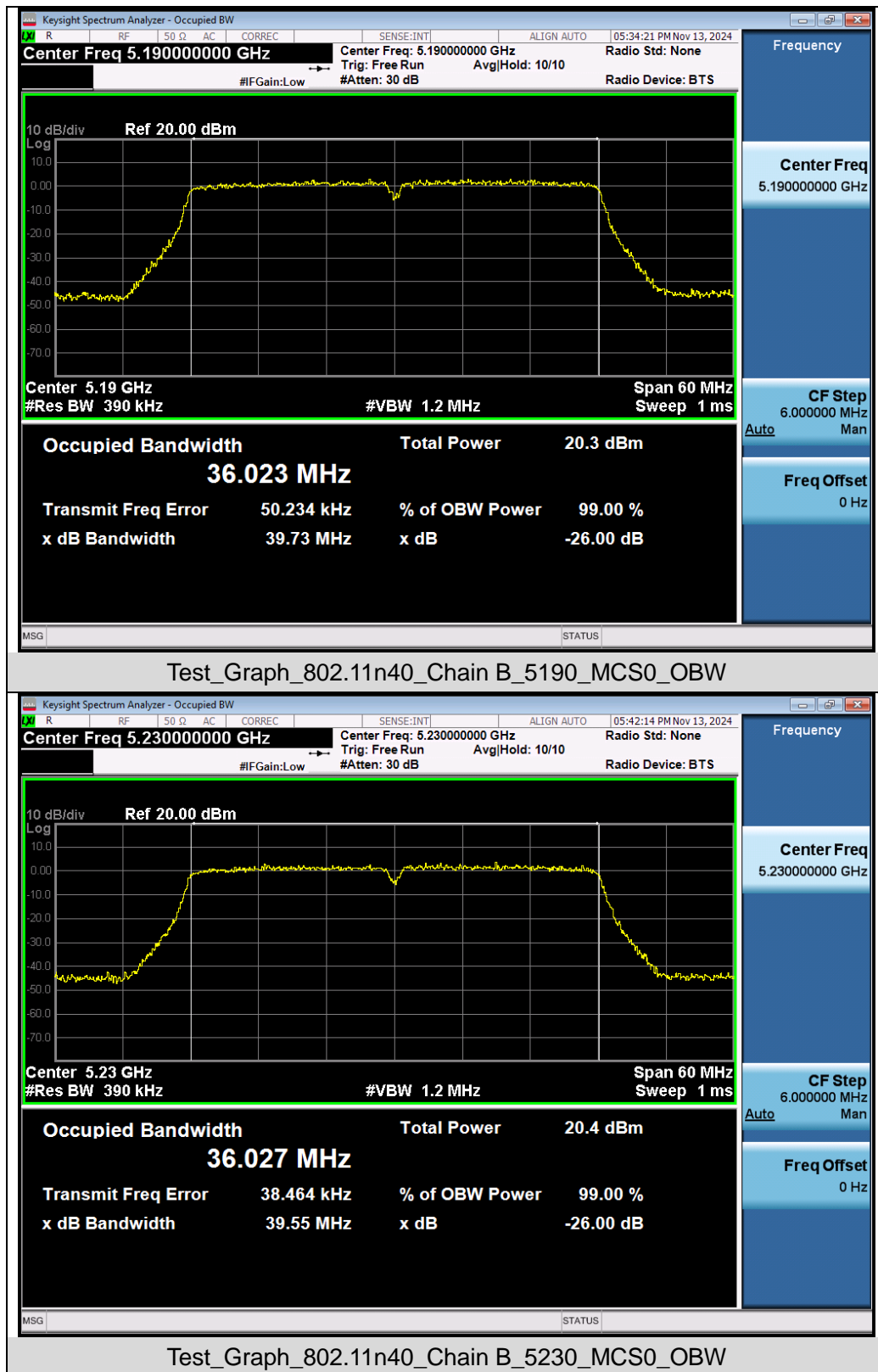
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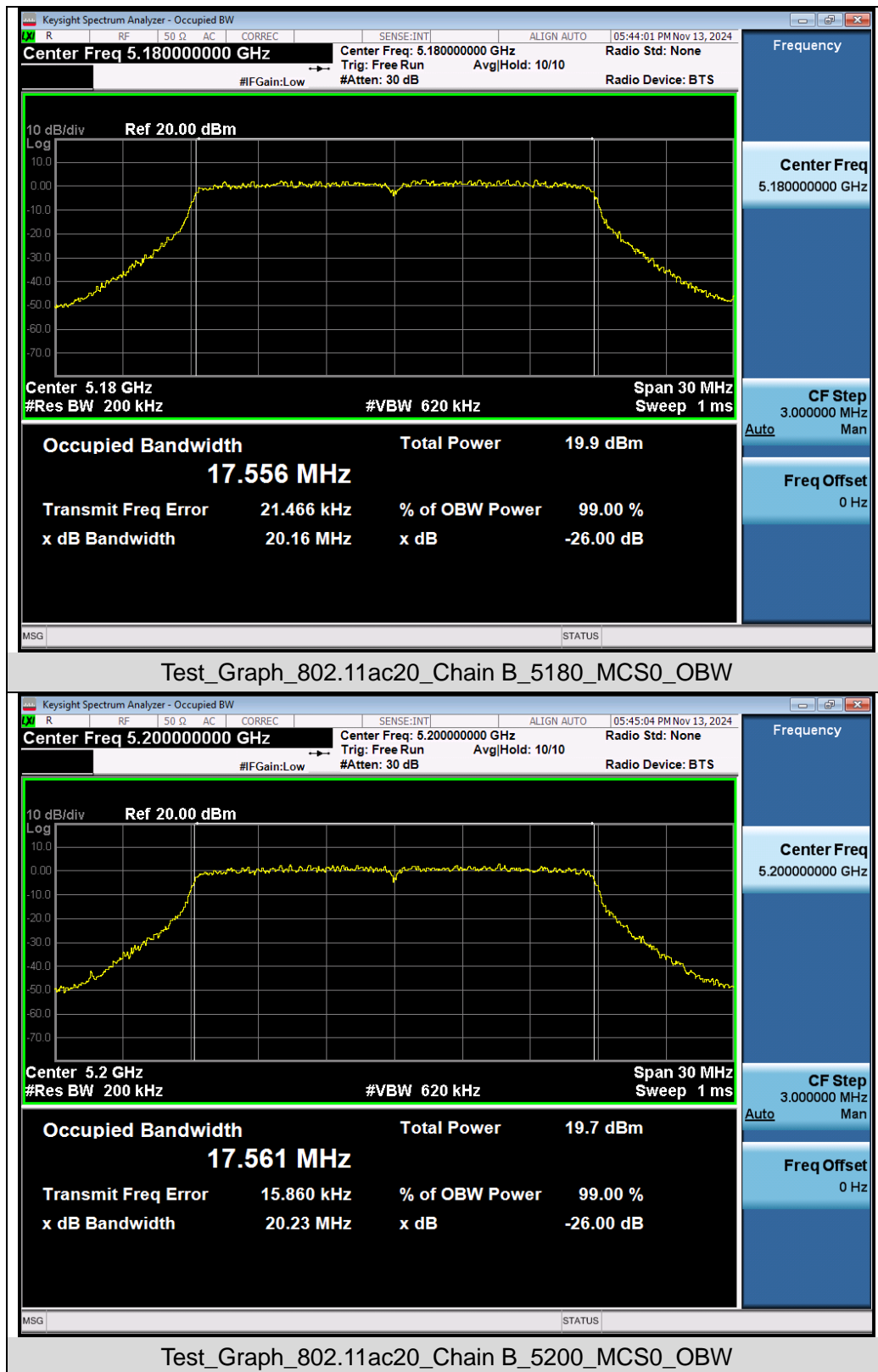


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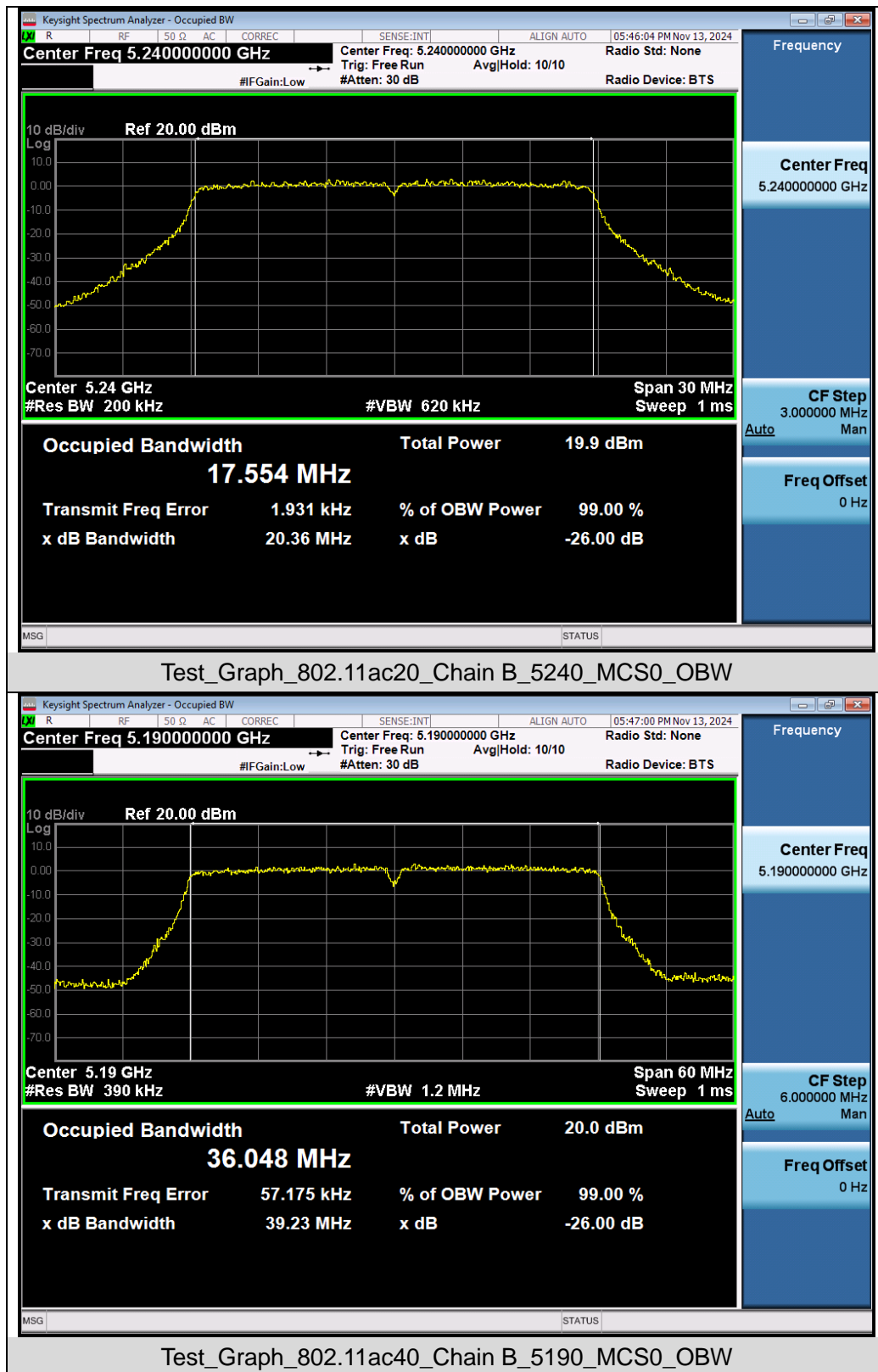


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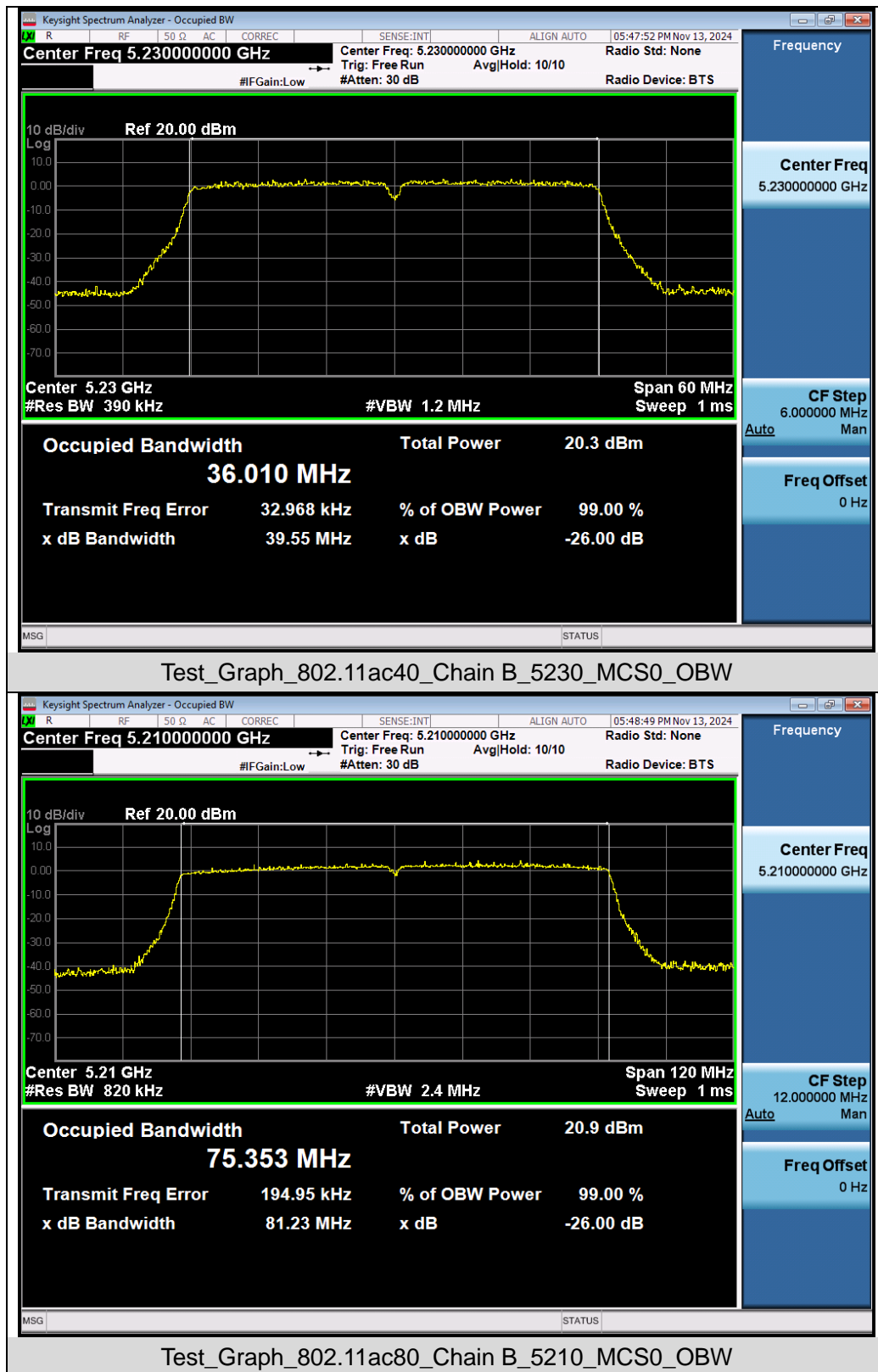


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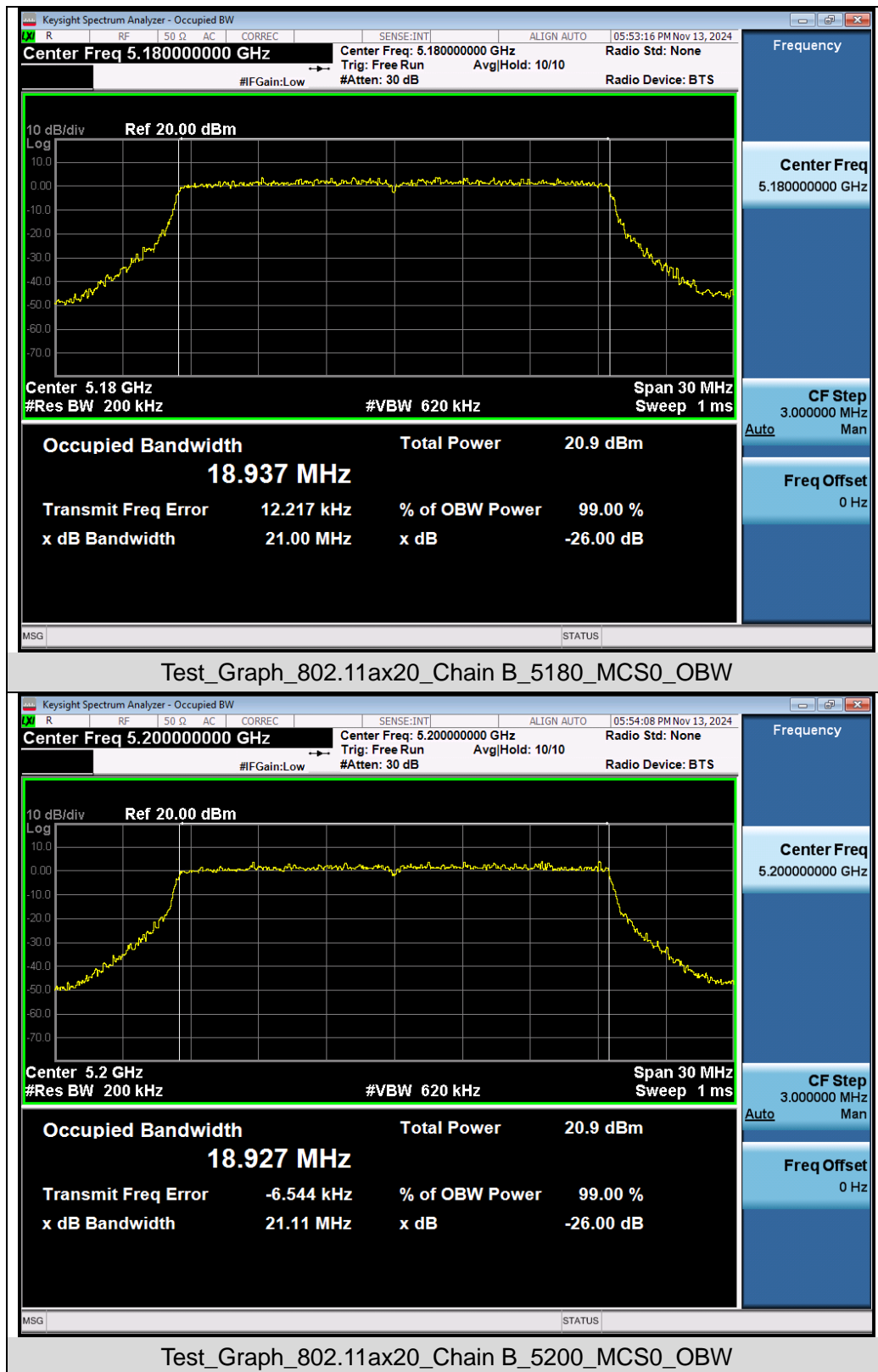


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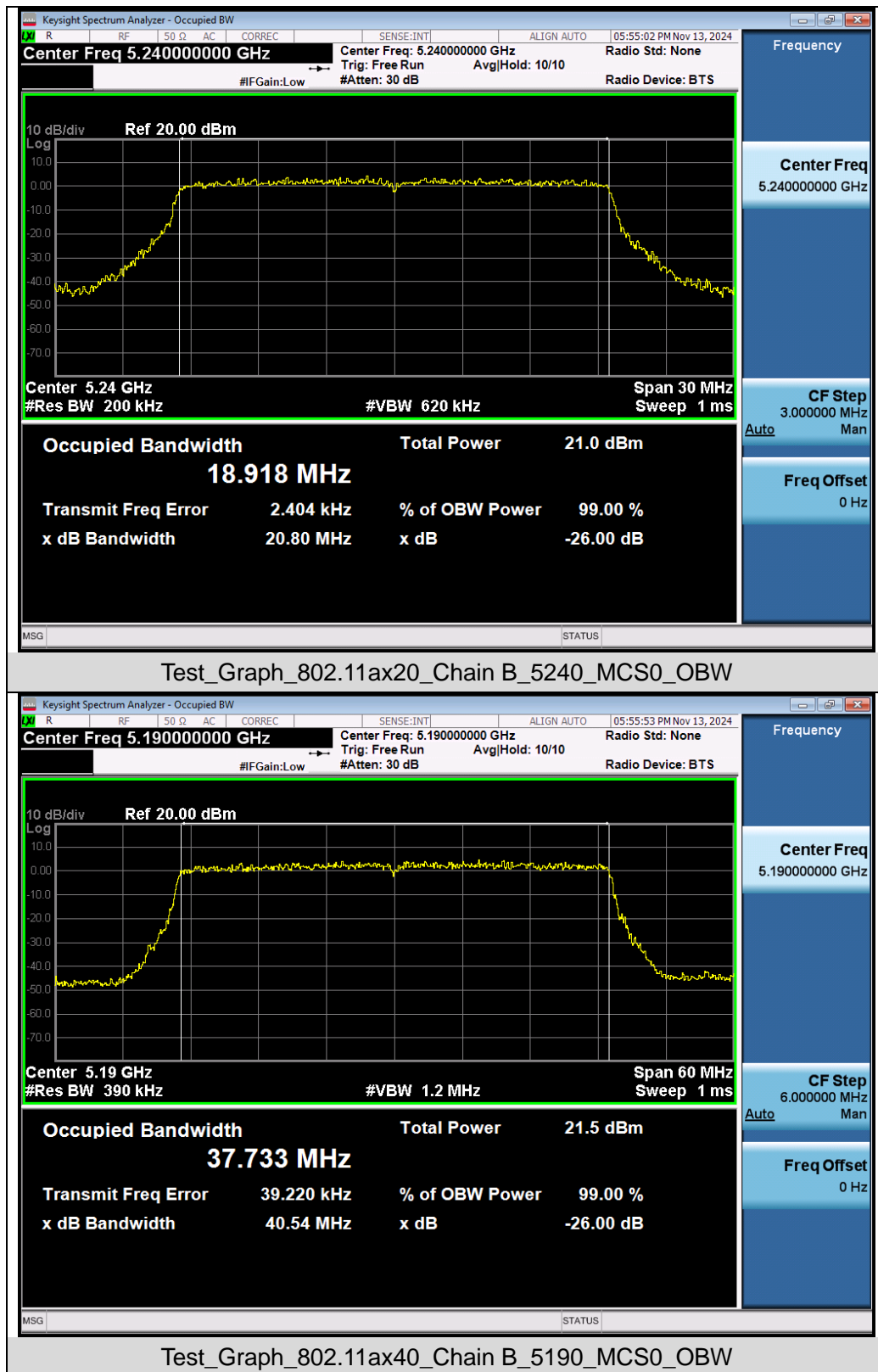
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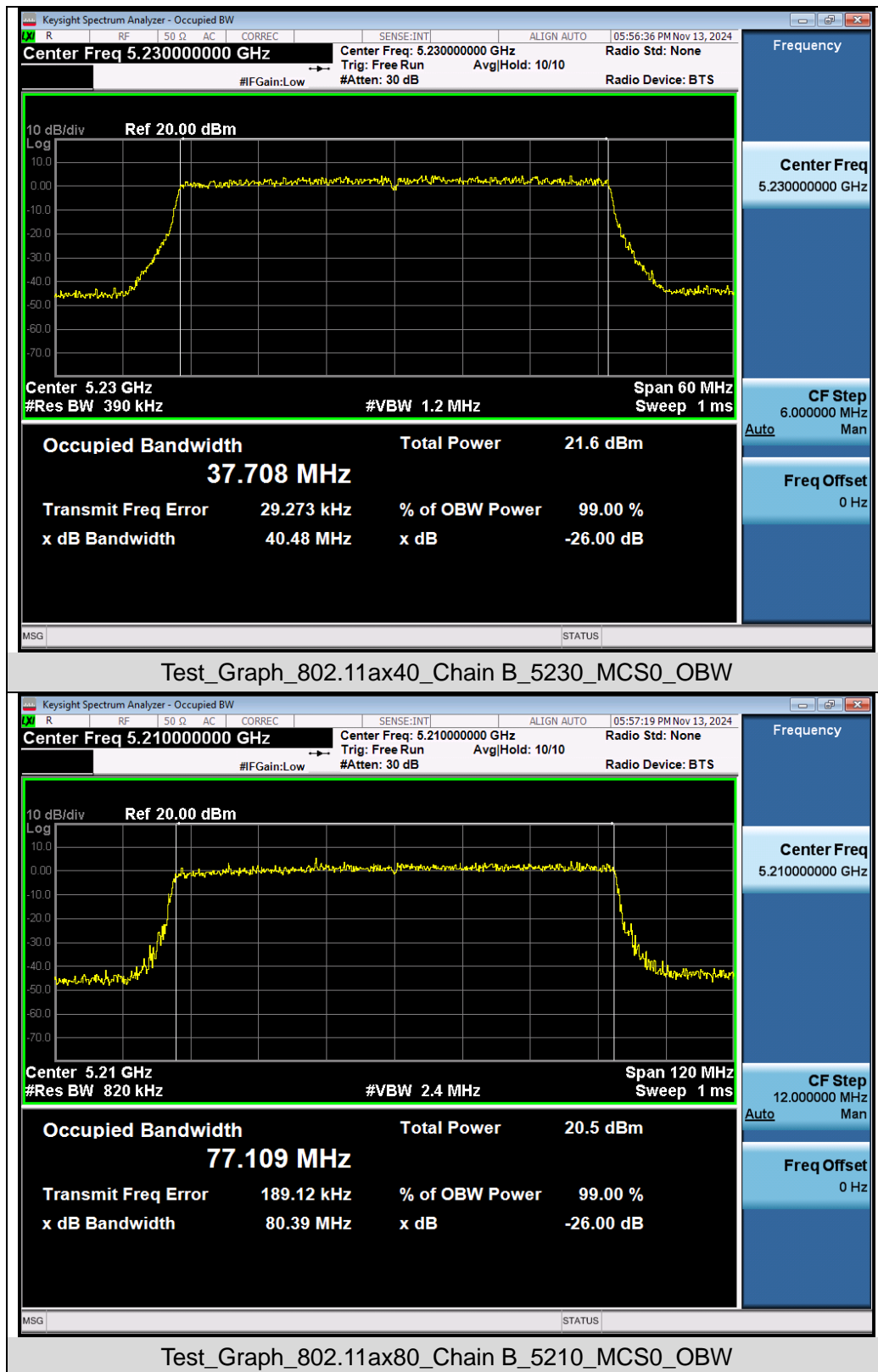


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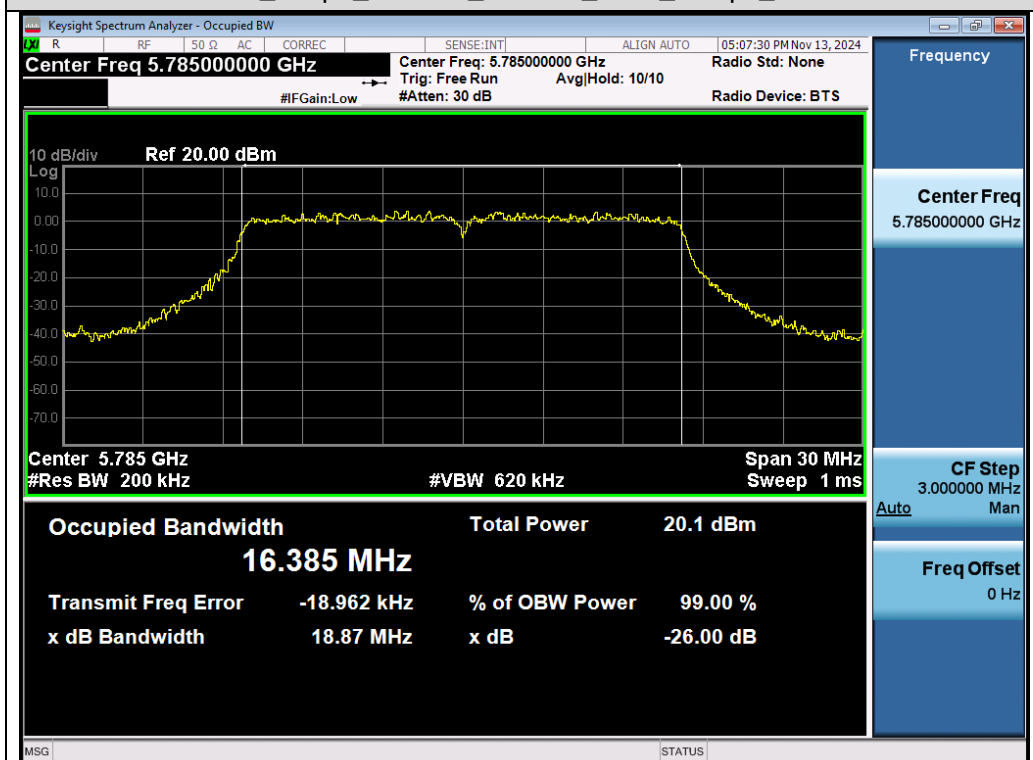


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### Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.745-5.825 GHz

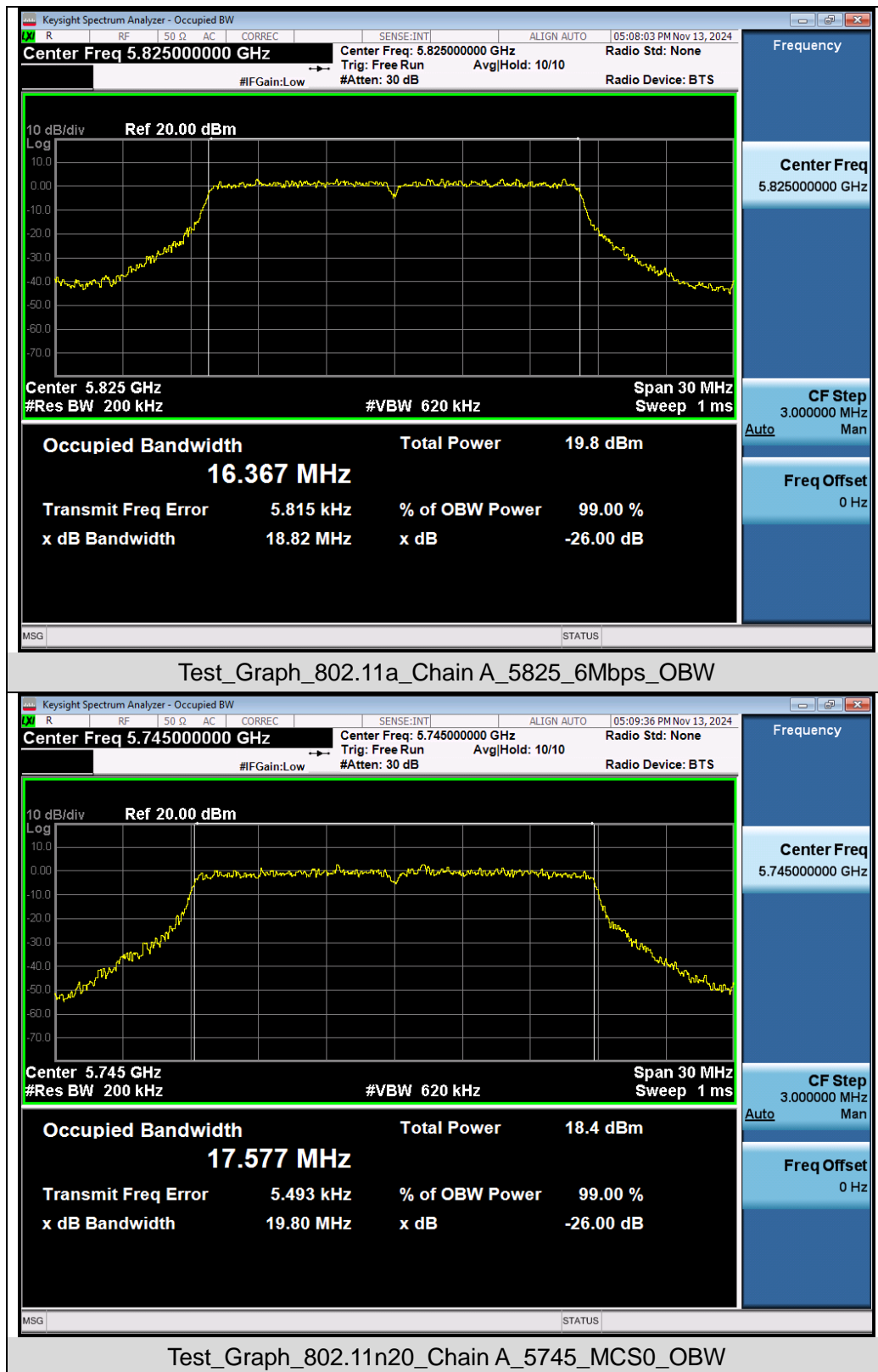


Test\_Graph\_802.11a\_Chain A\_5745\_6Mbps\_OBW

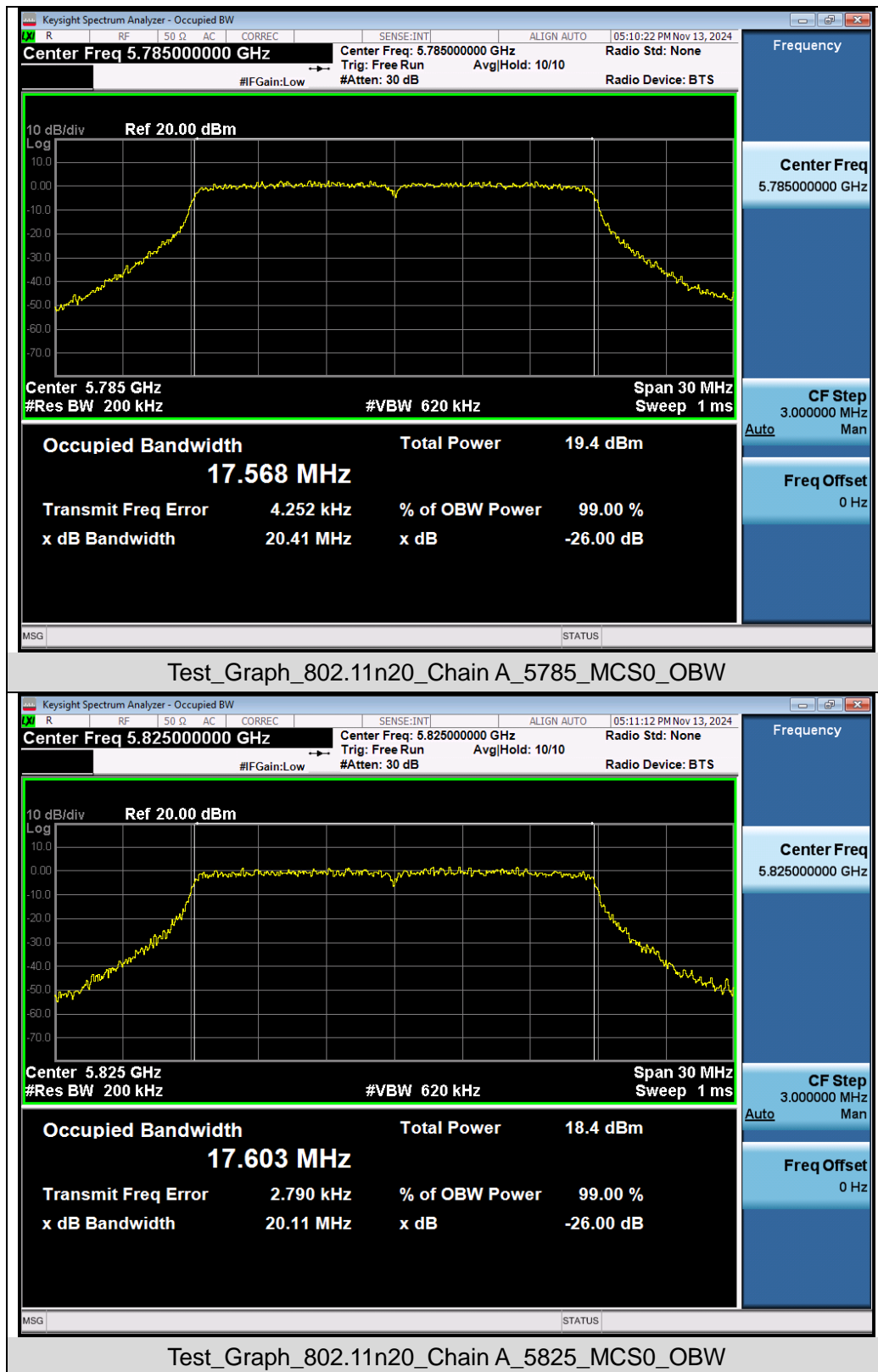


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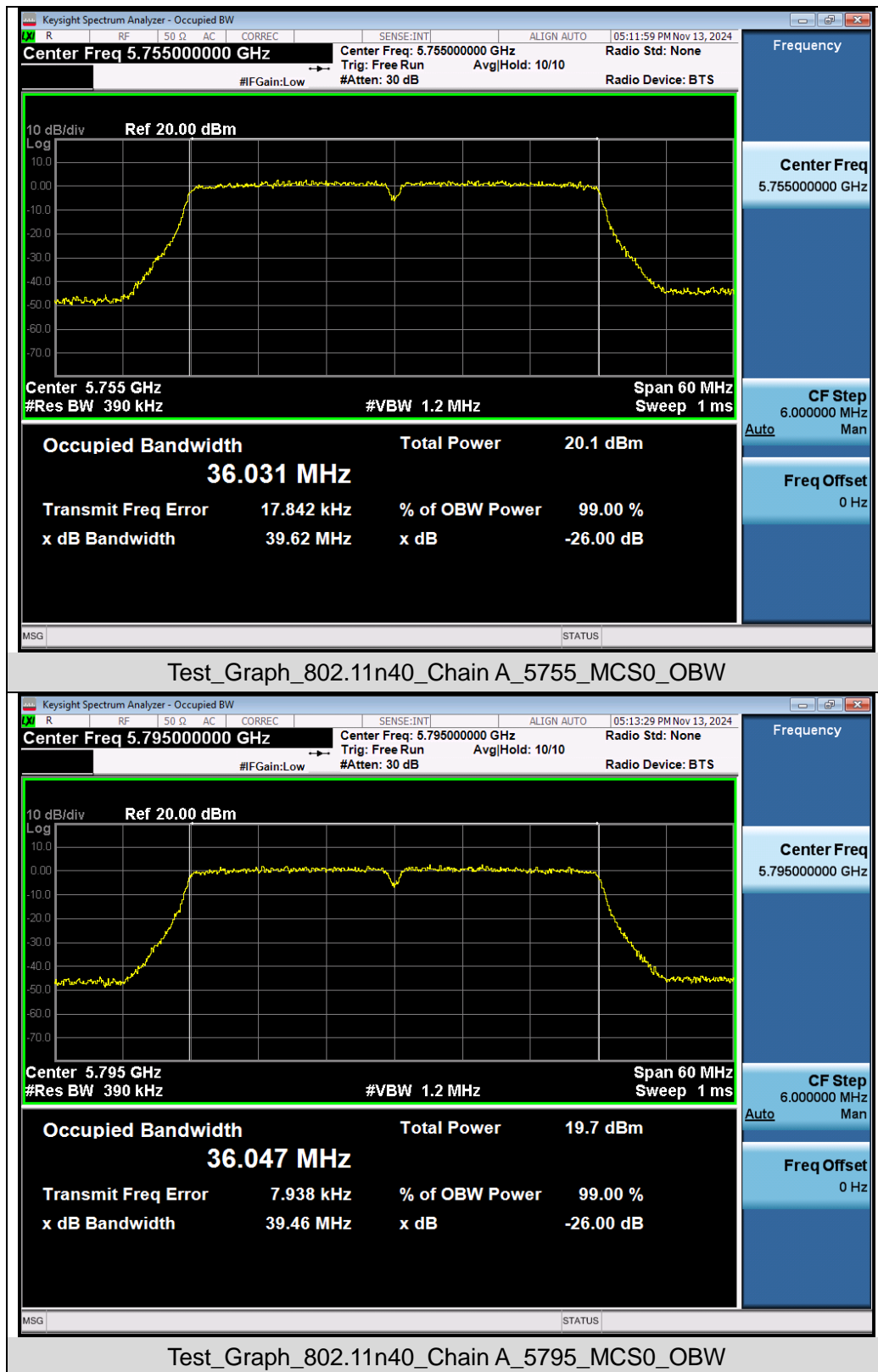
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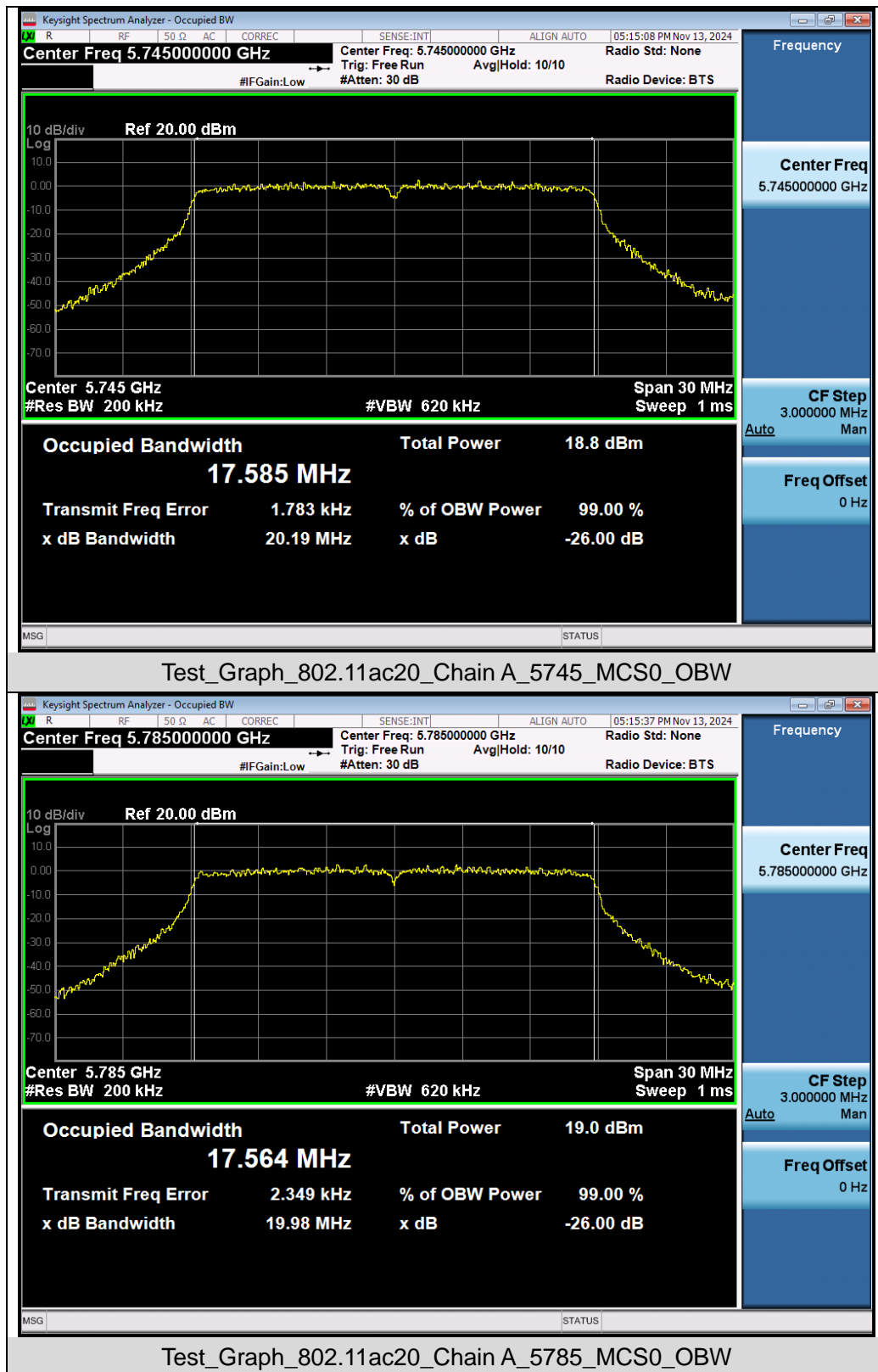


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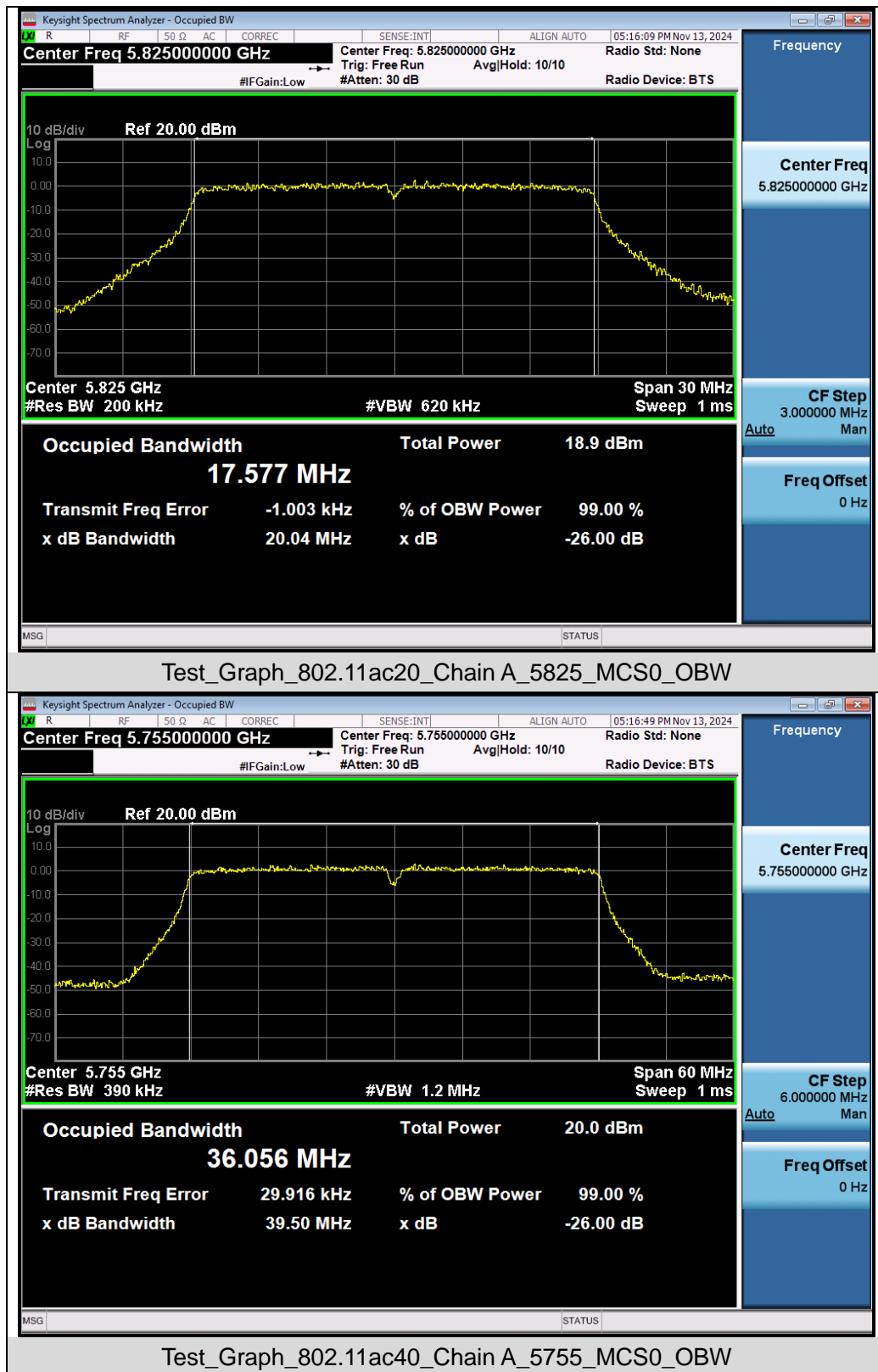


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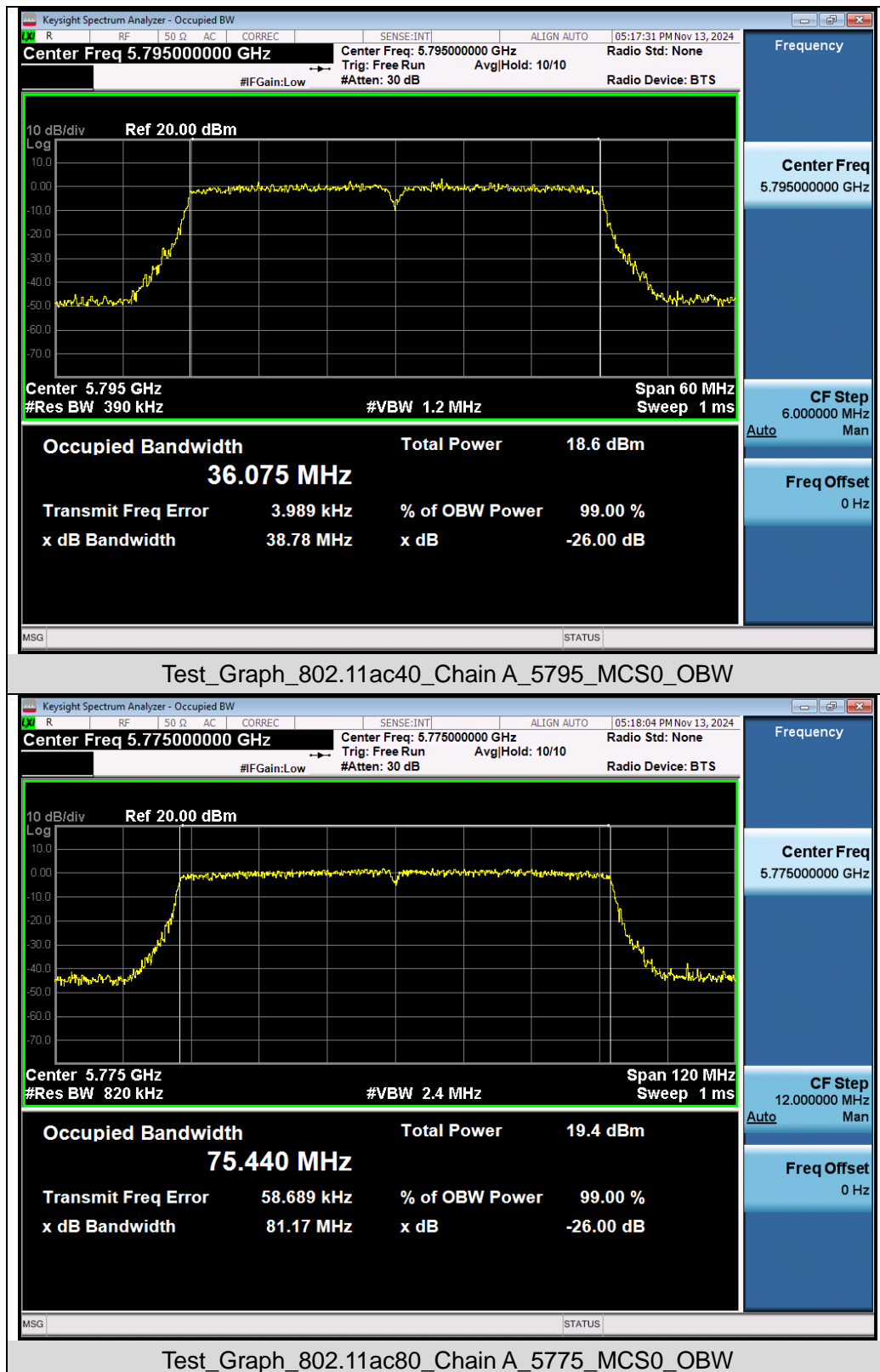
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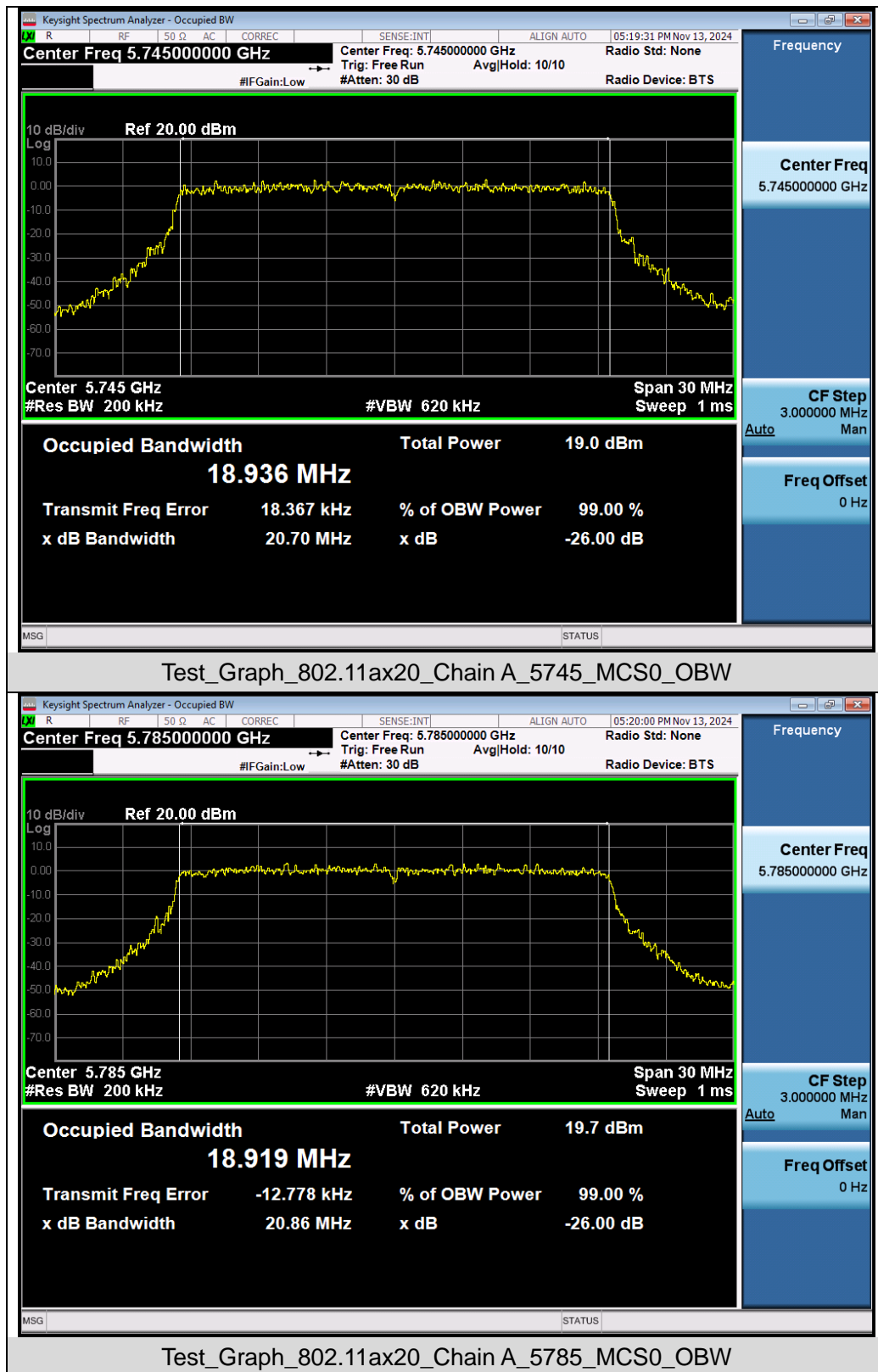


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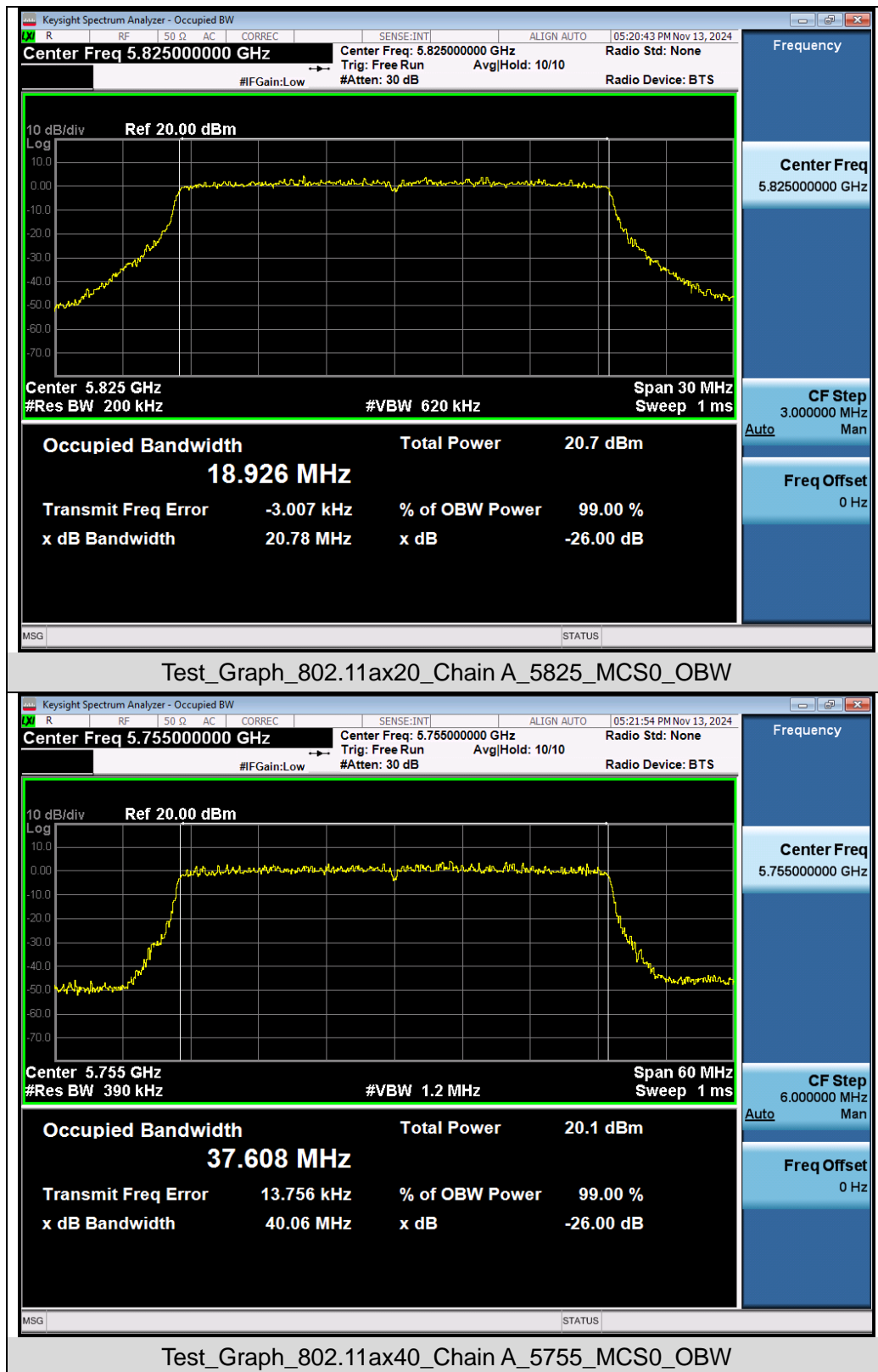


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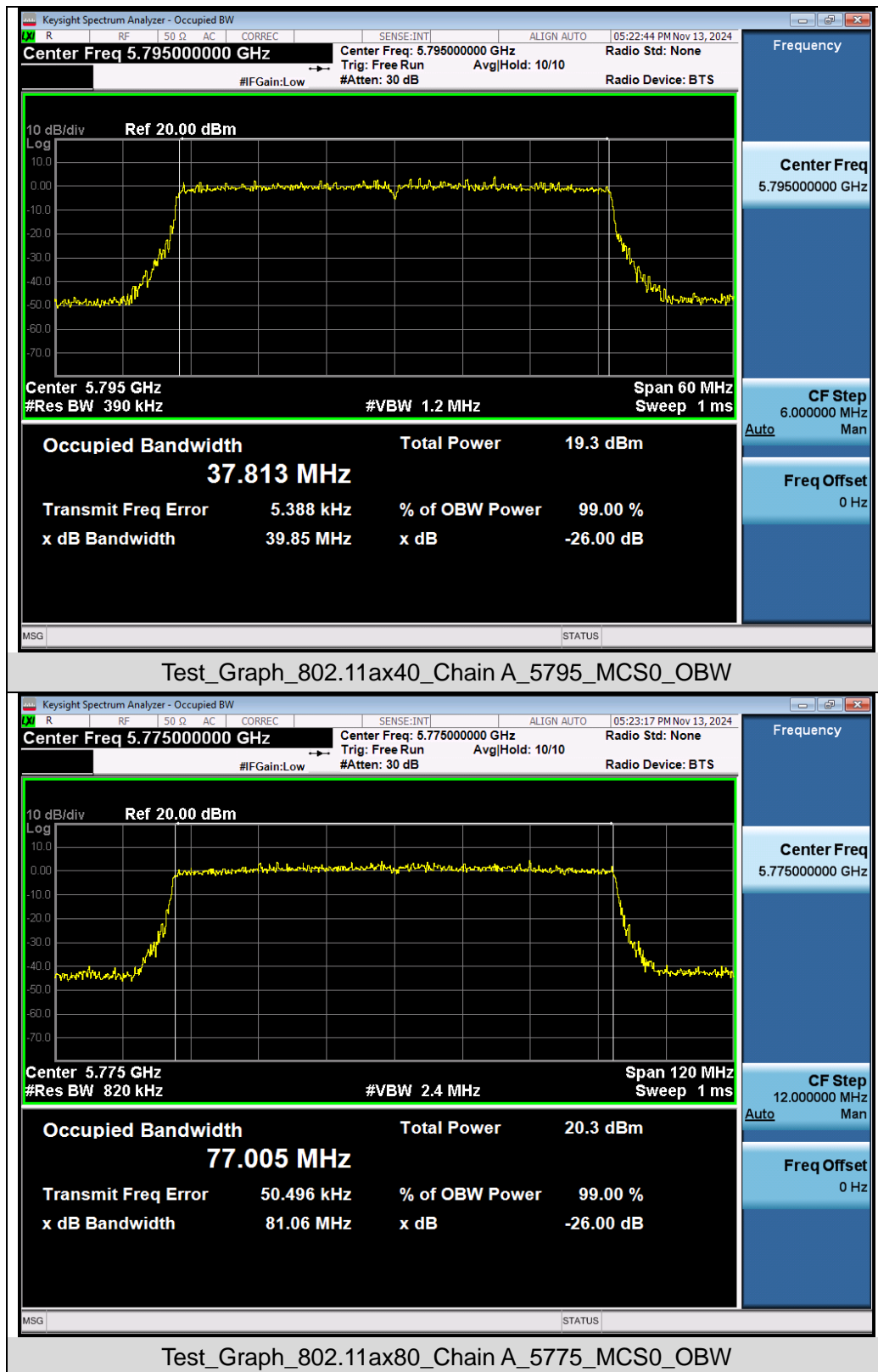


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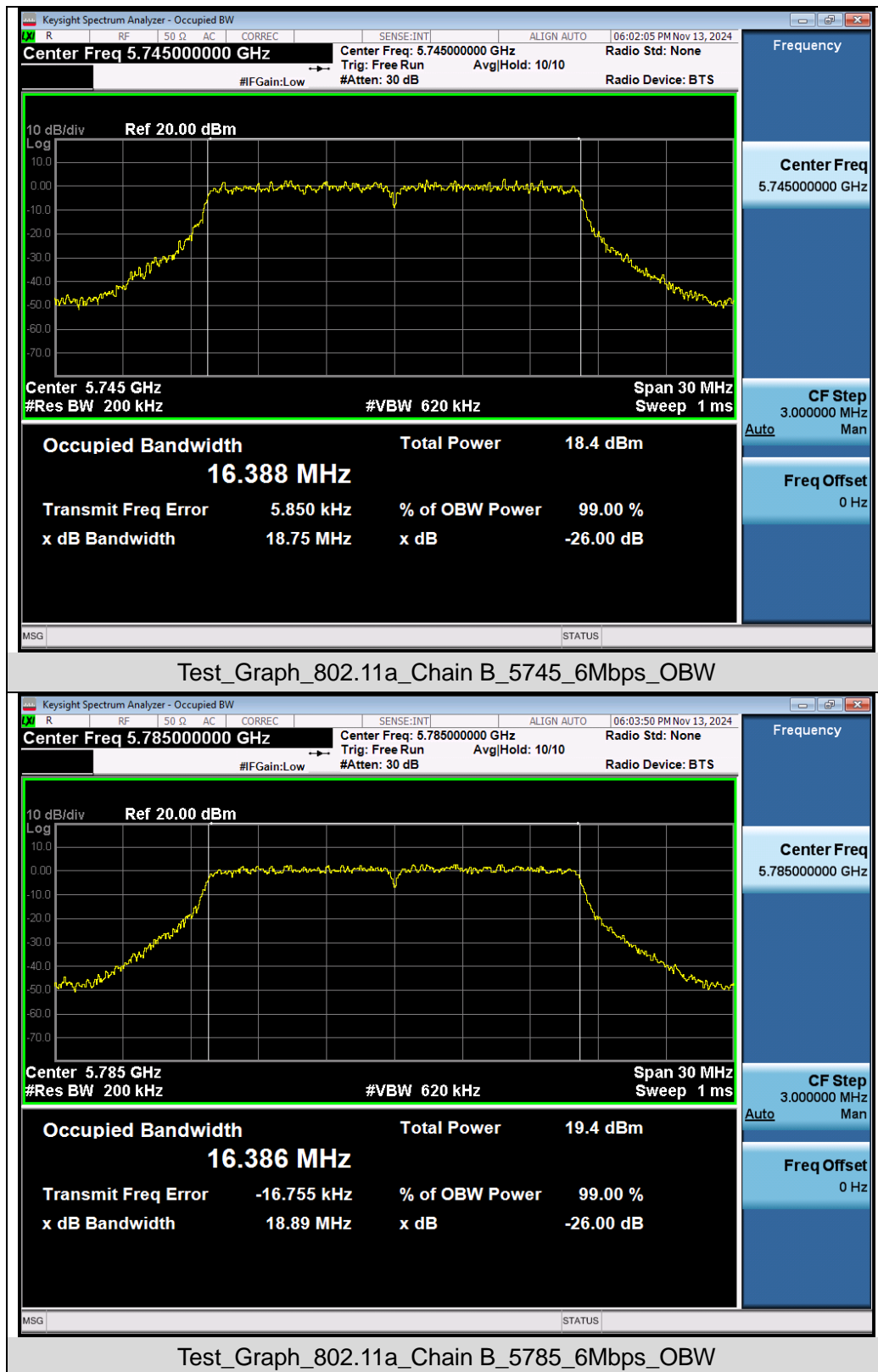


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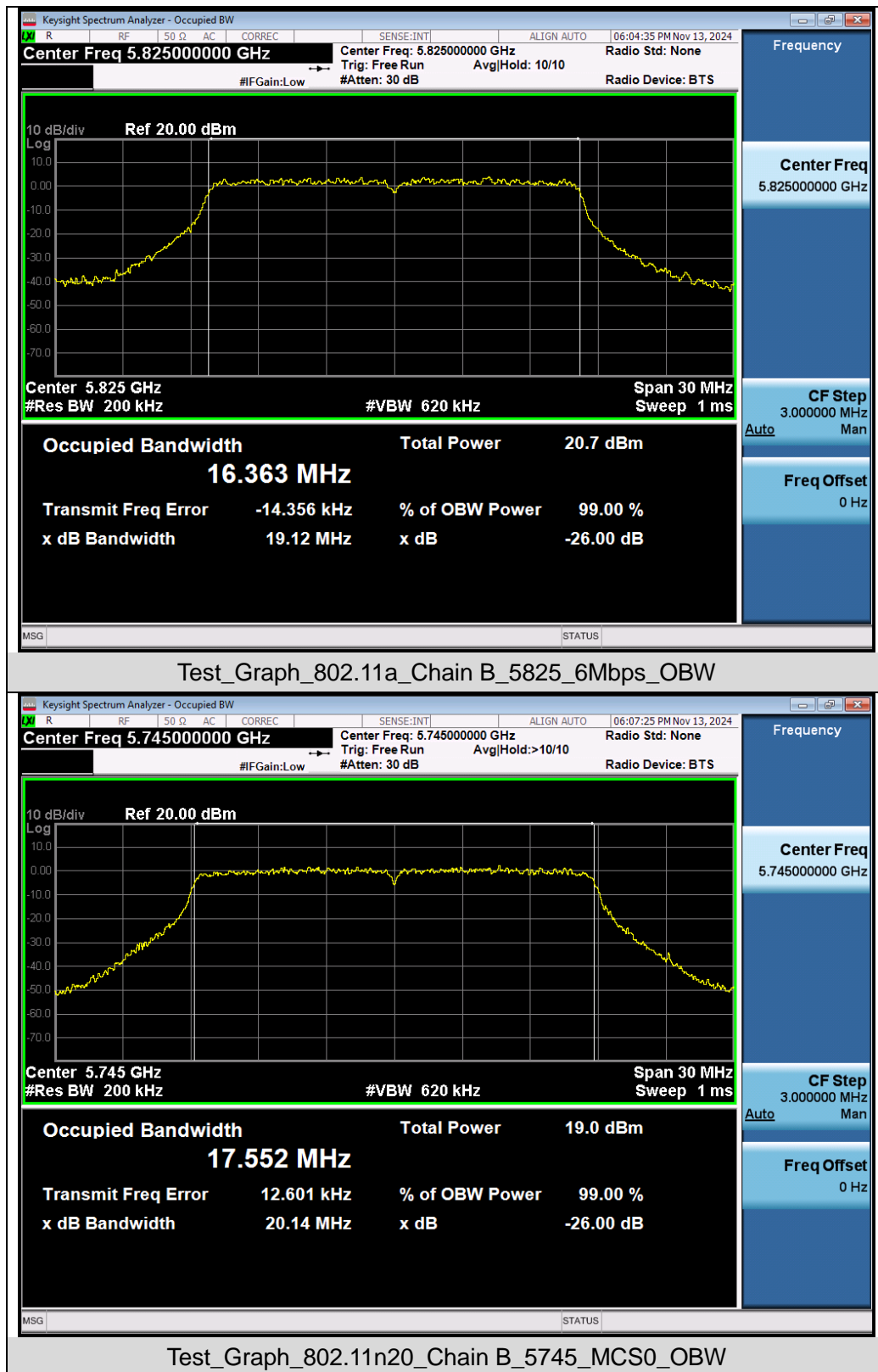


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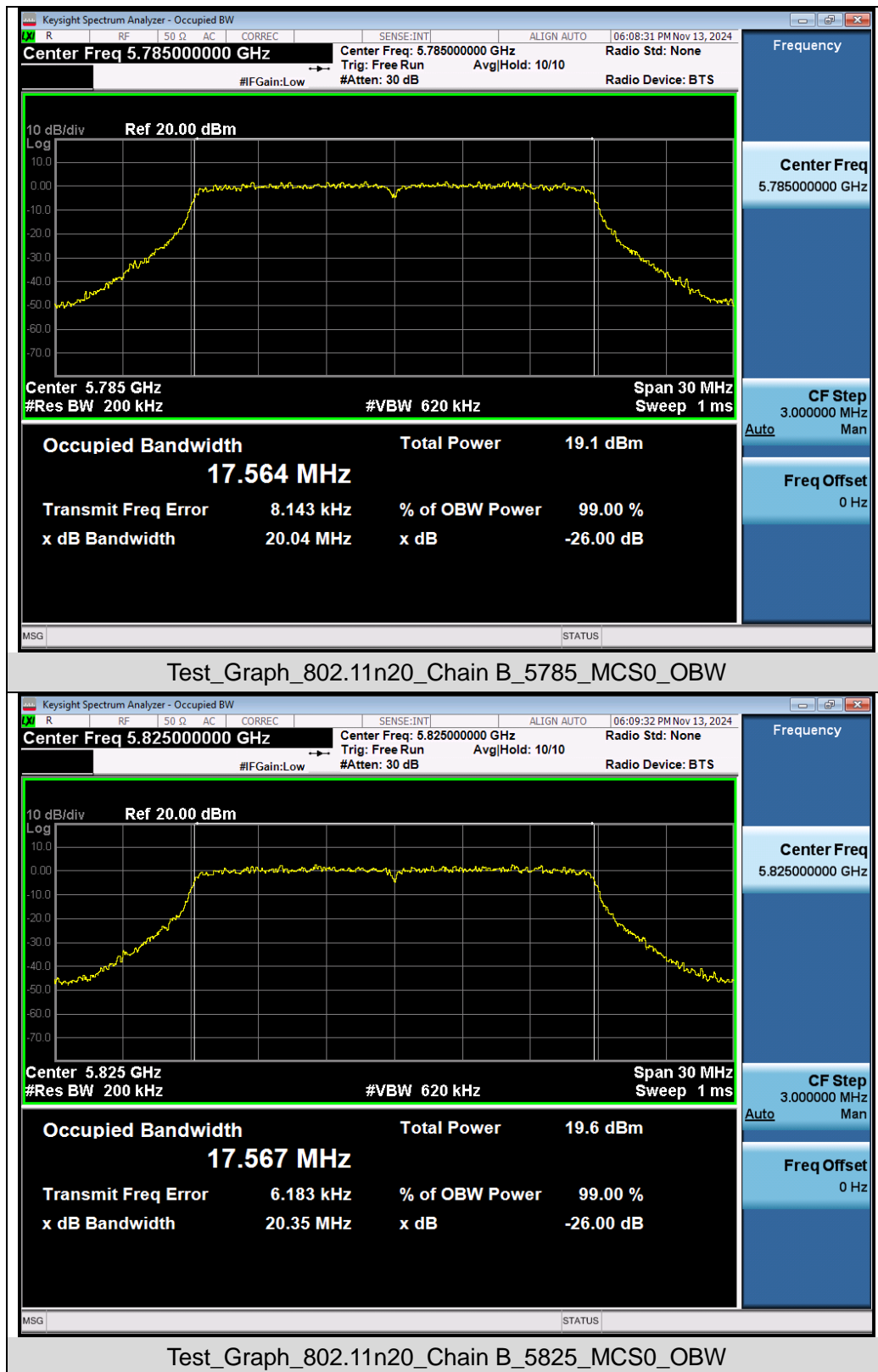
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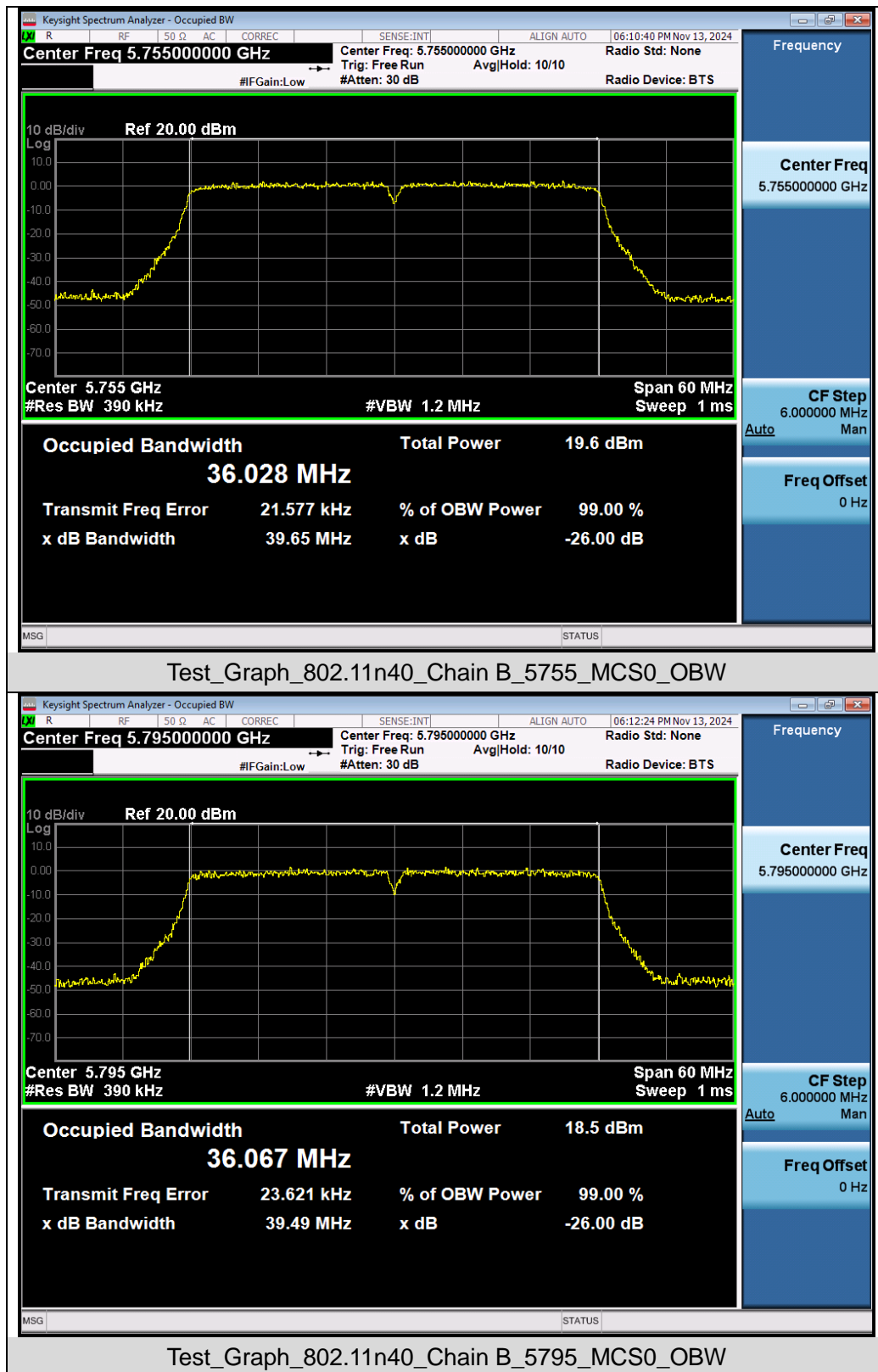


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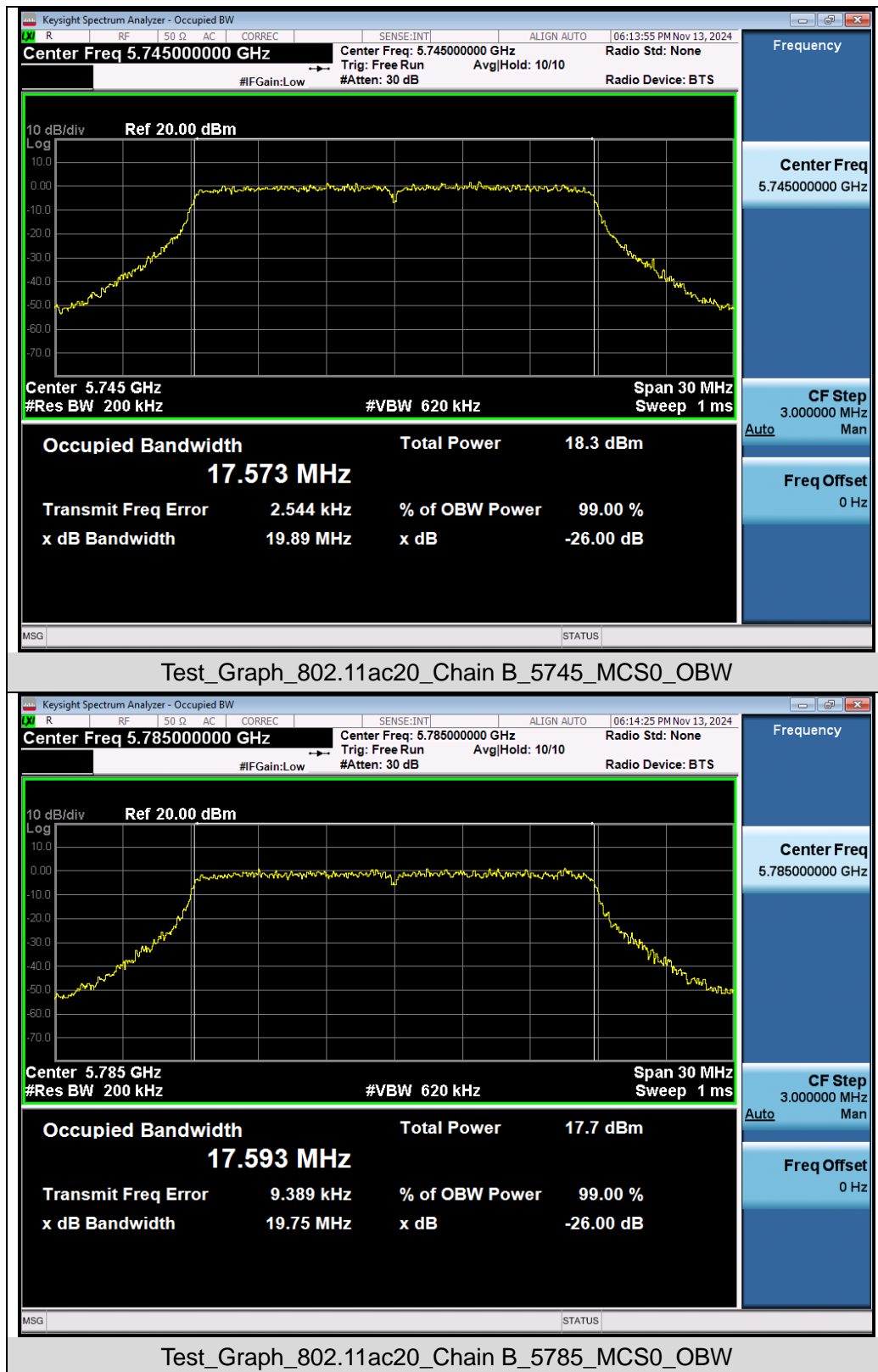
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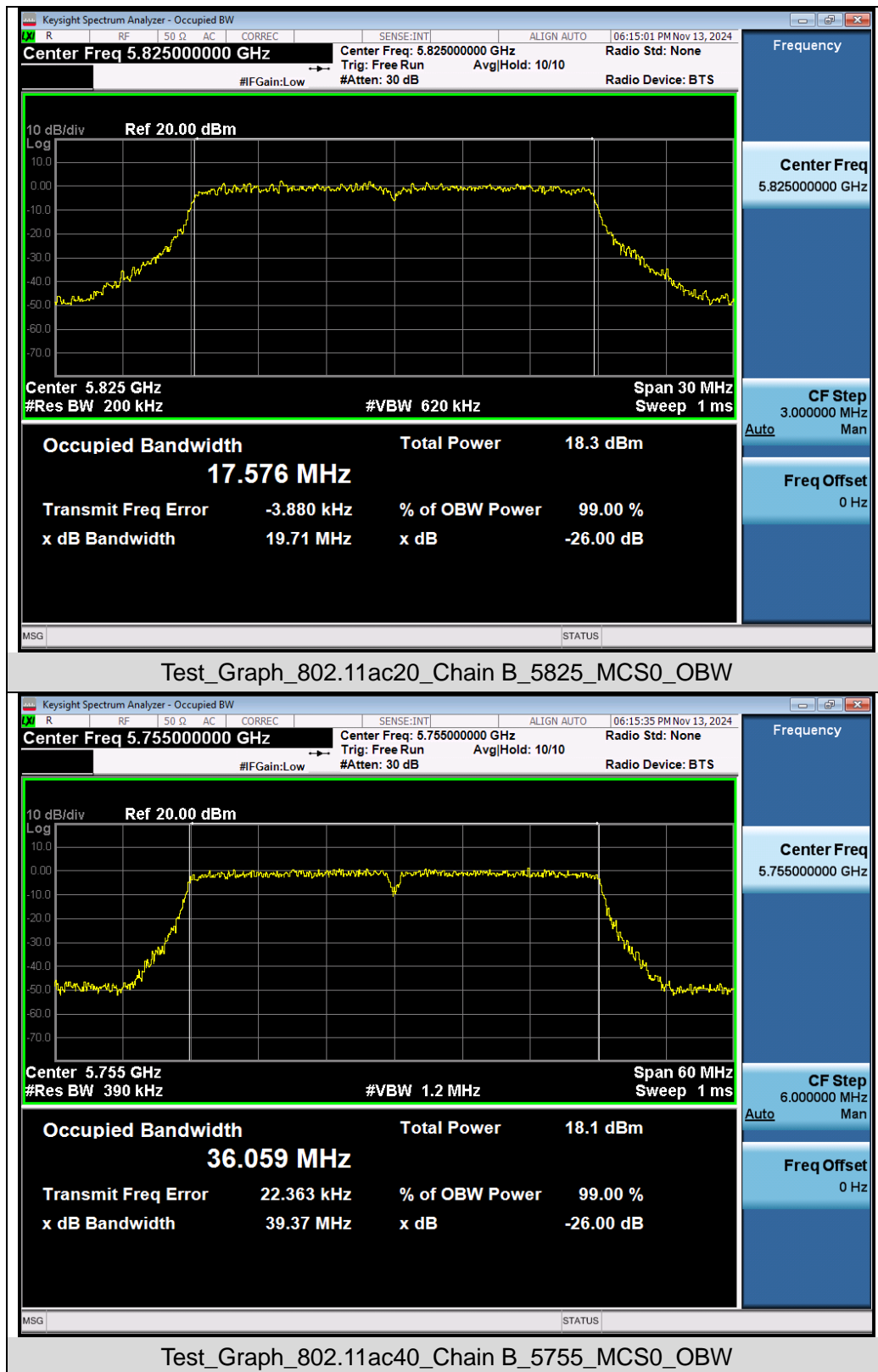
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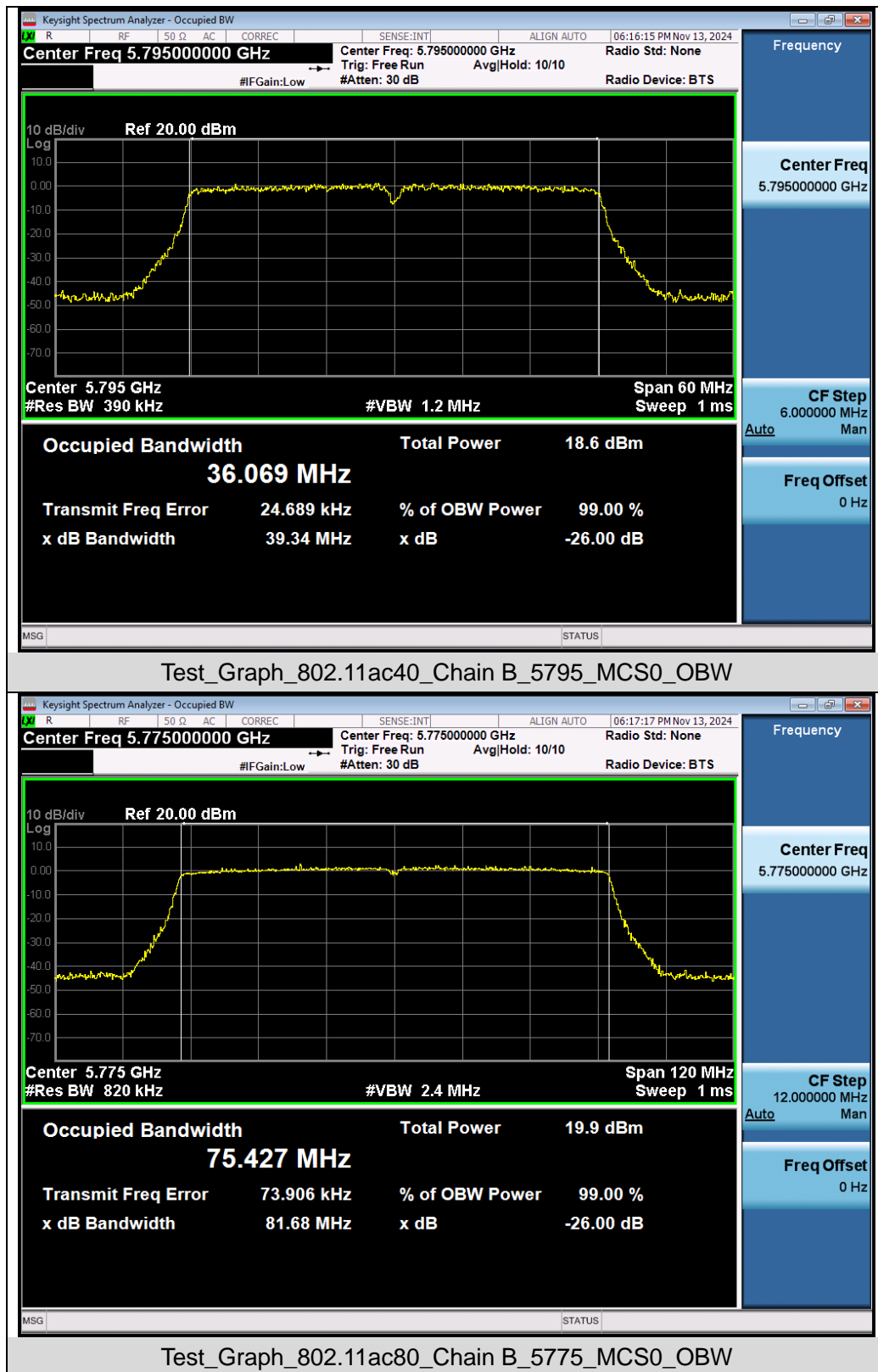
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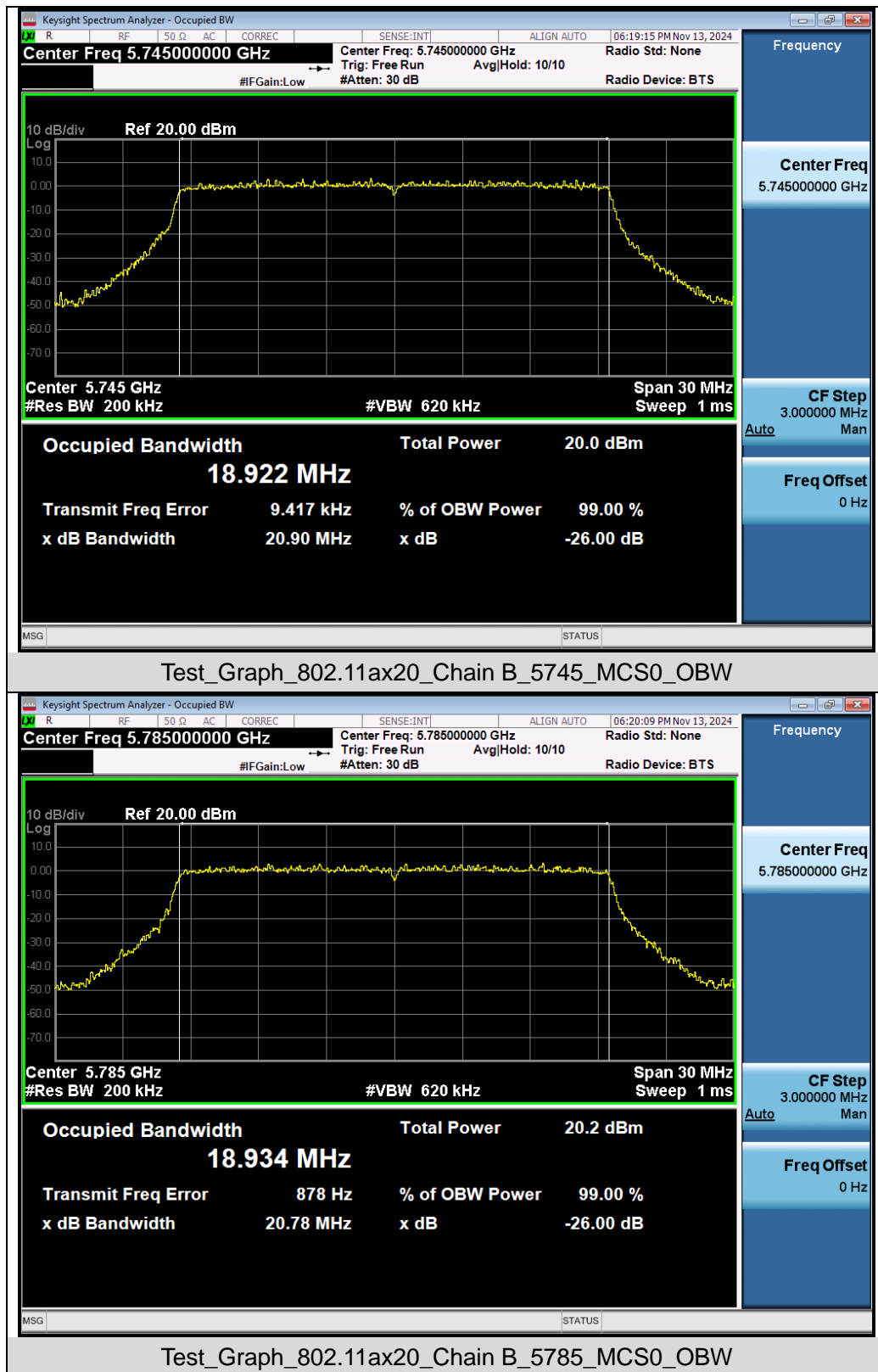


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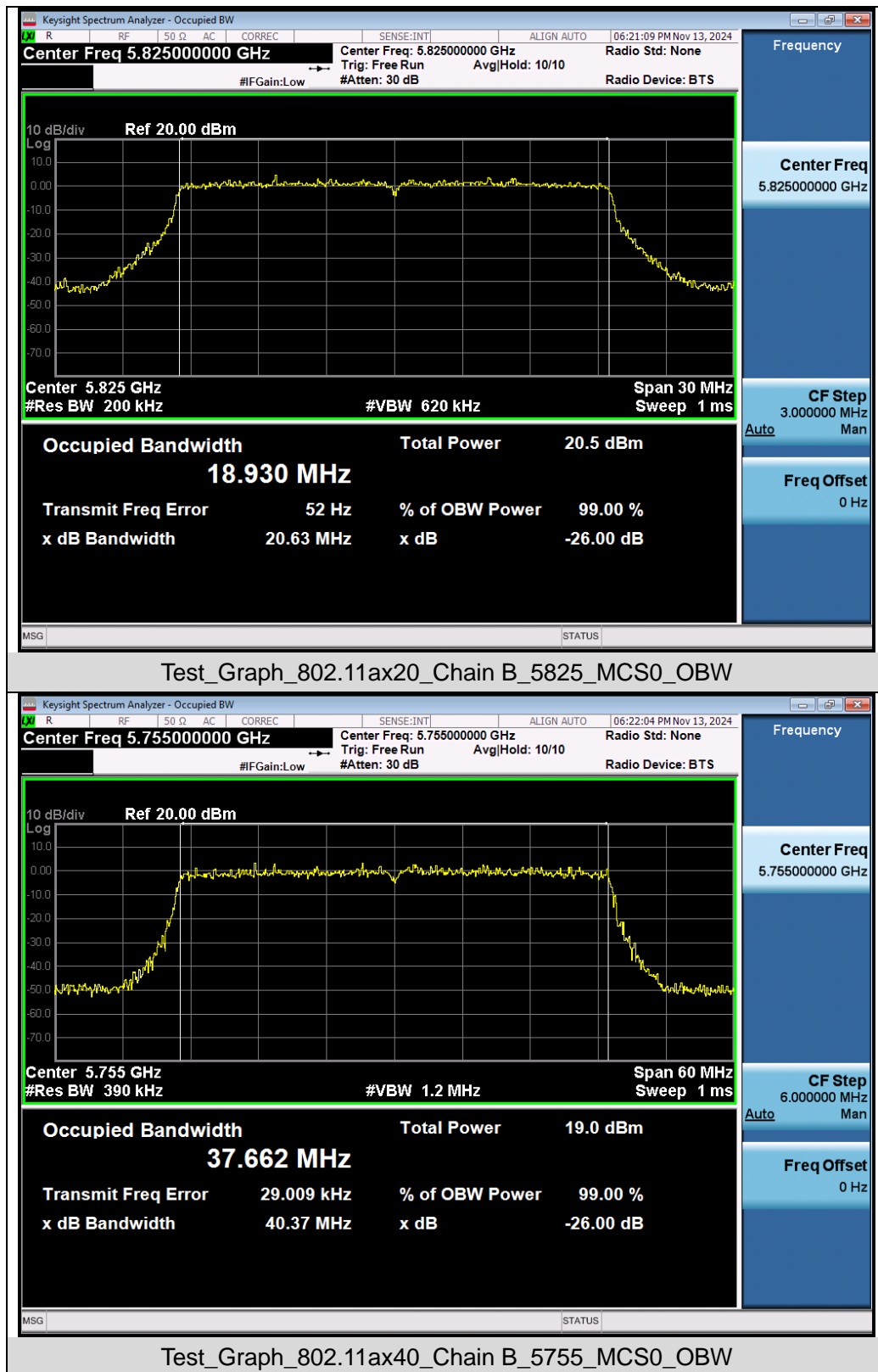


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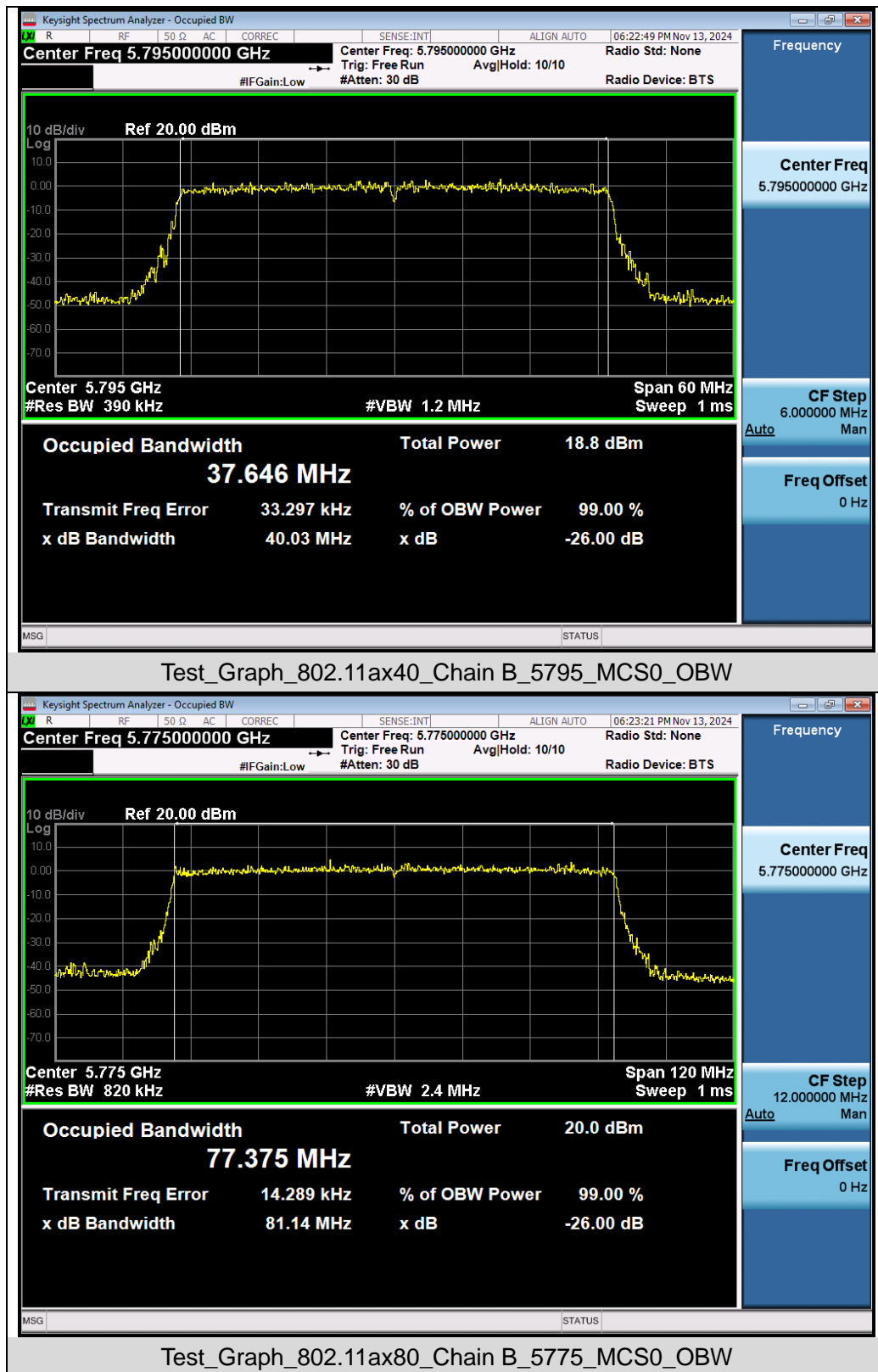
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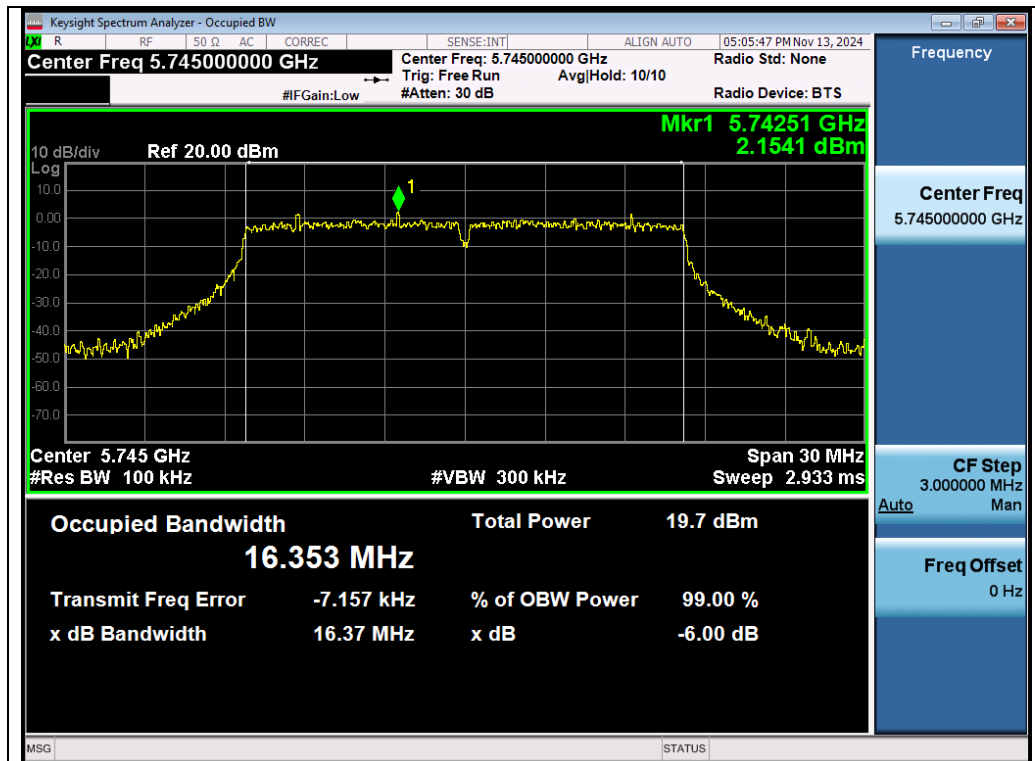


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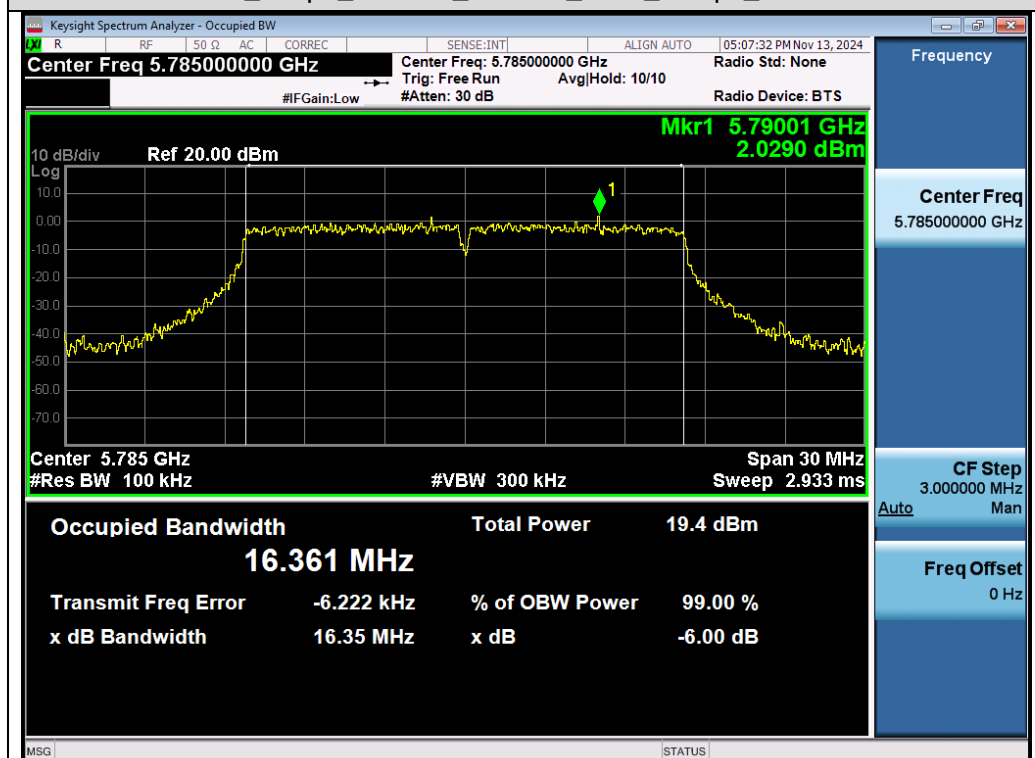


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### Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz

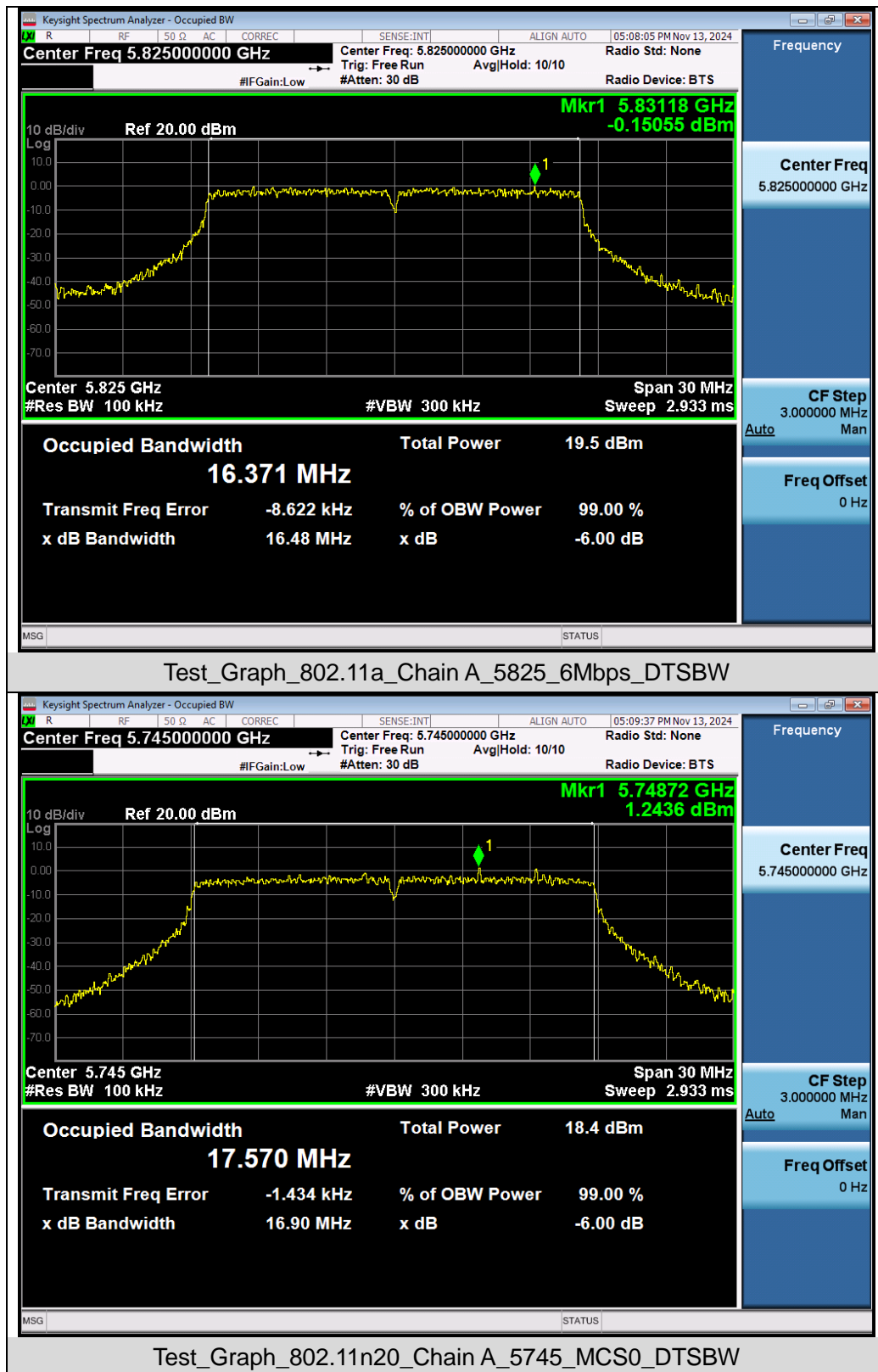


### Test\_Graph\_802.11a\_Chain A\_5745\_6Mbps\_DTSBW

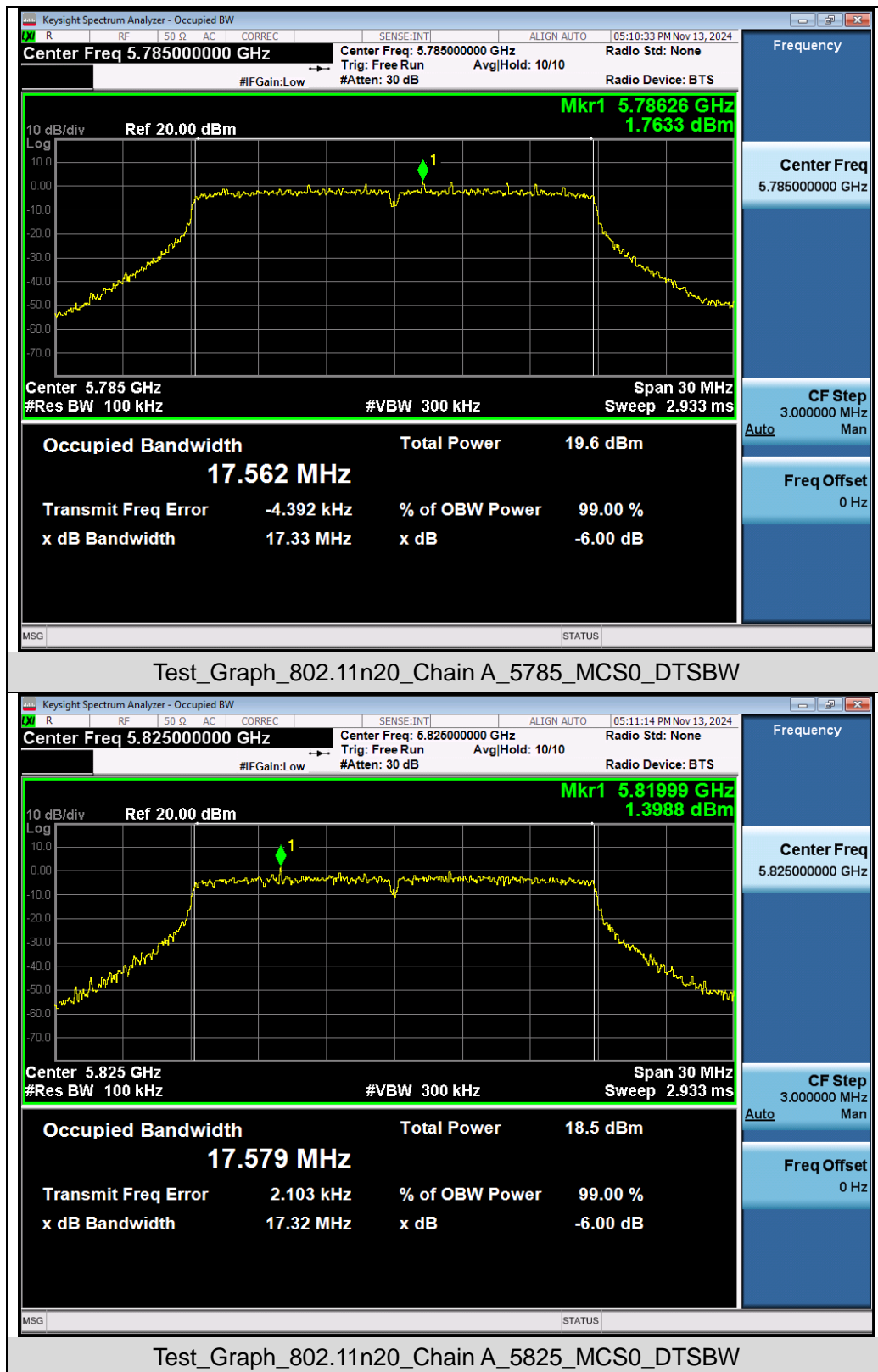


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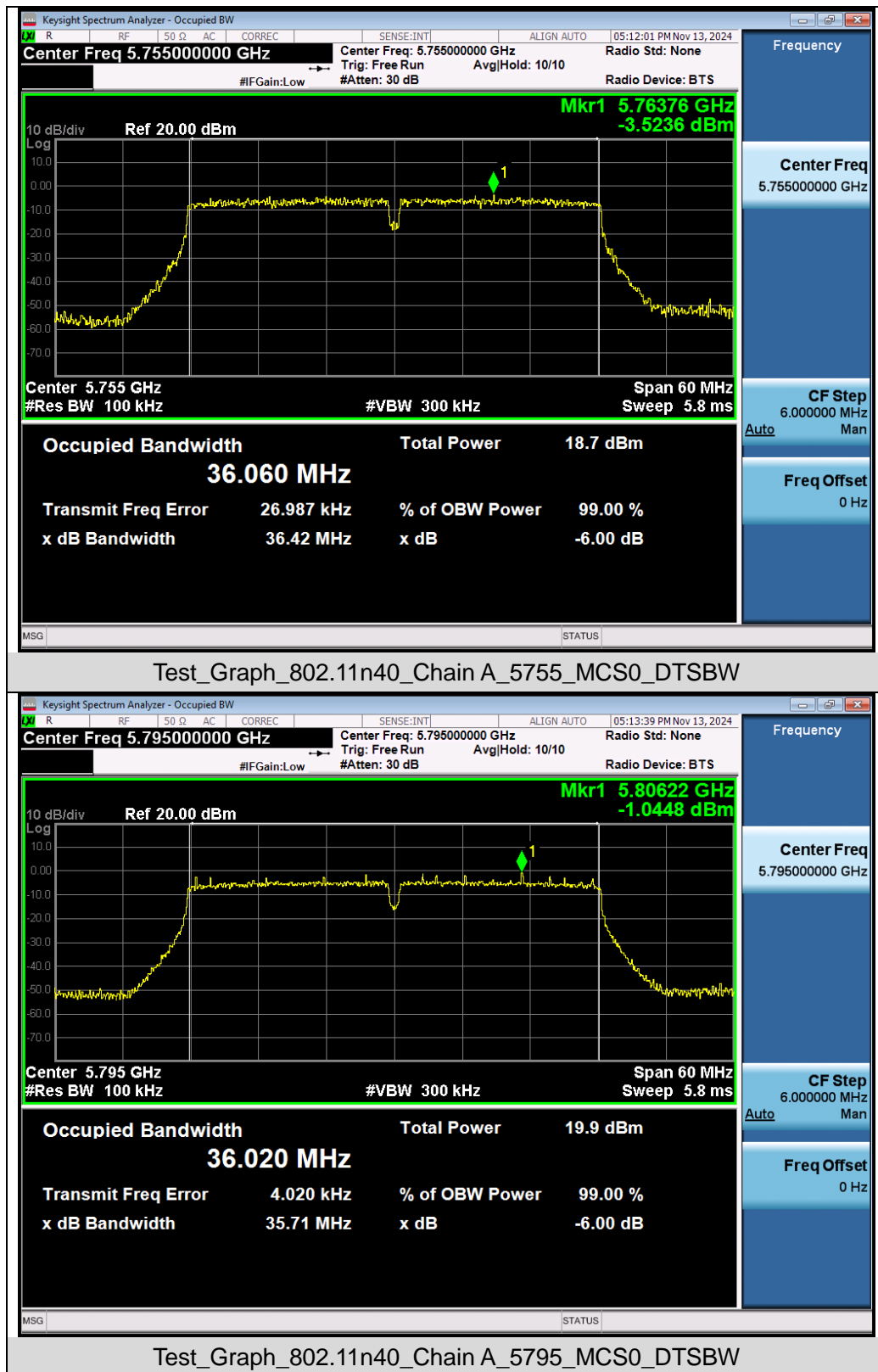


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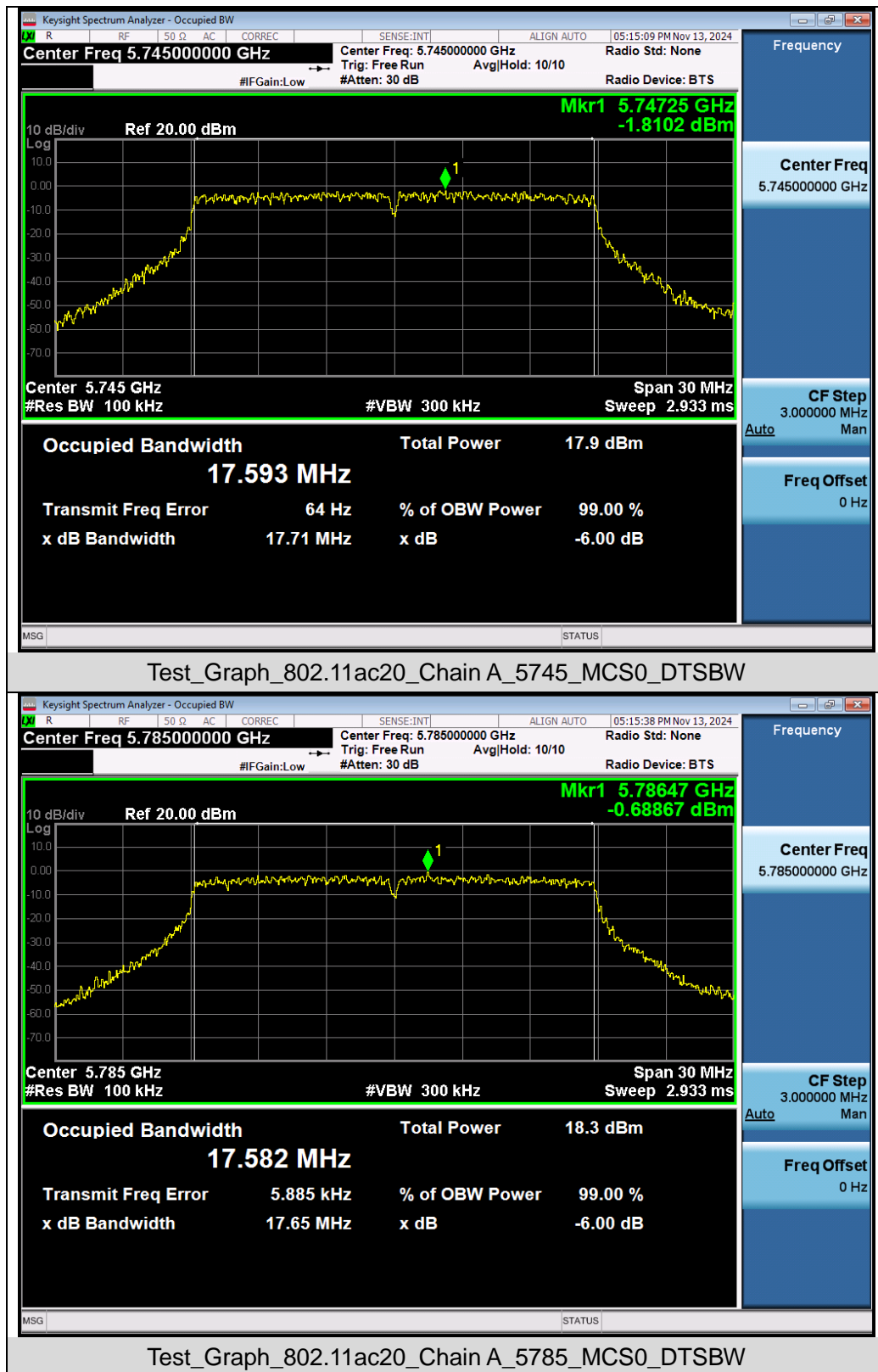
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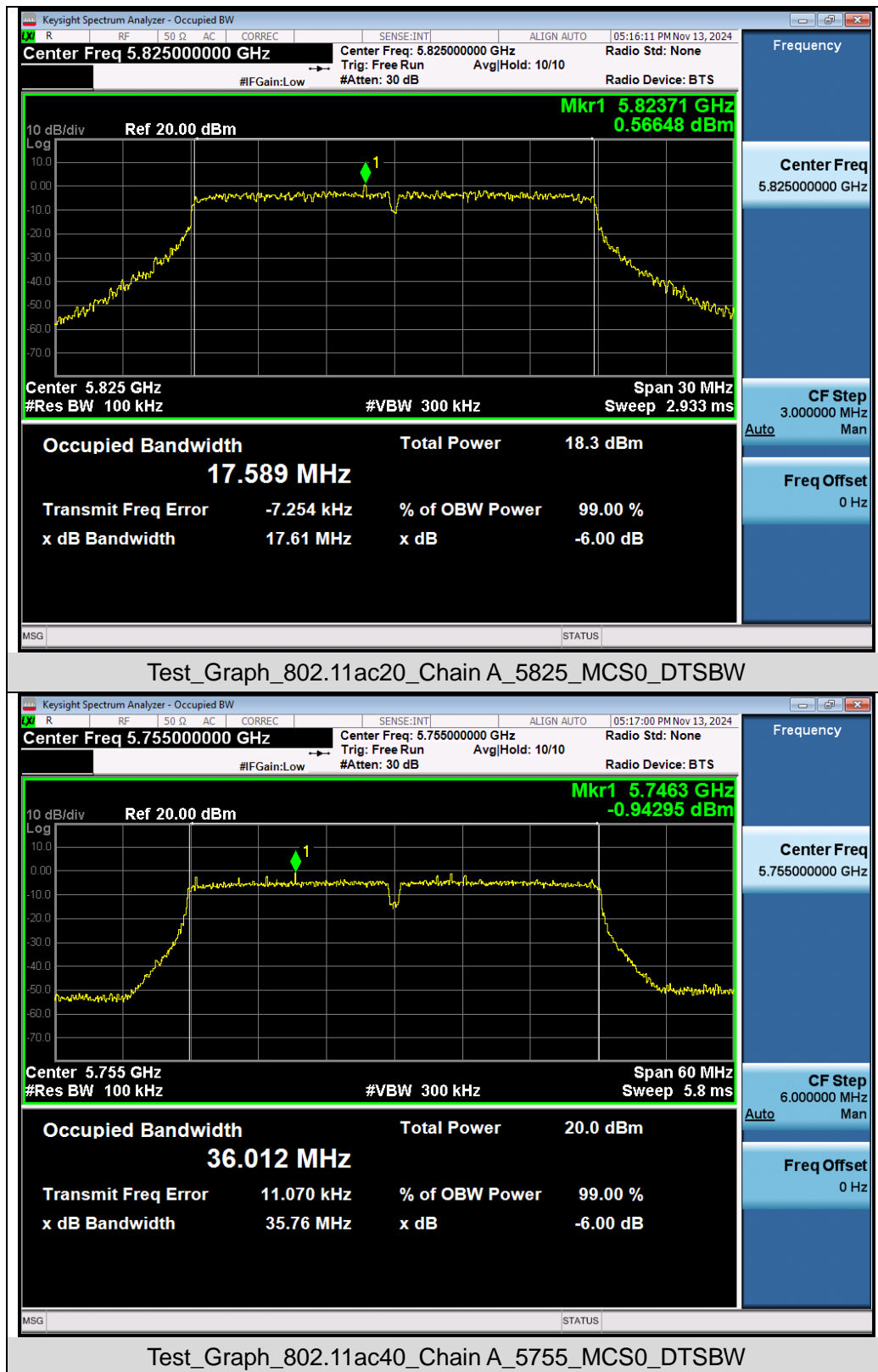
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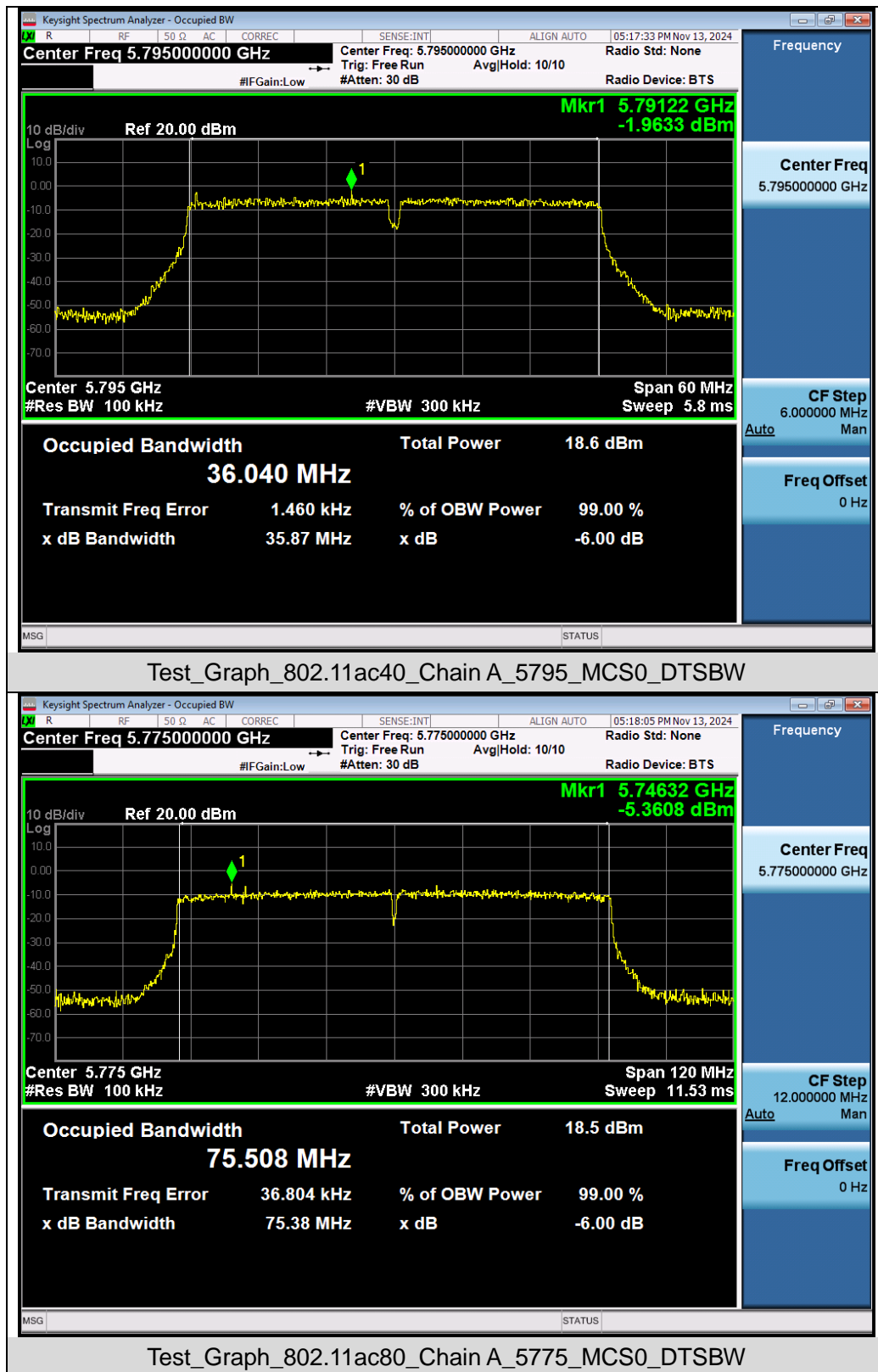


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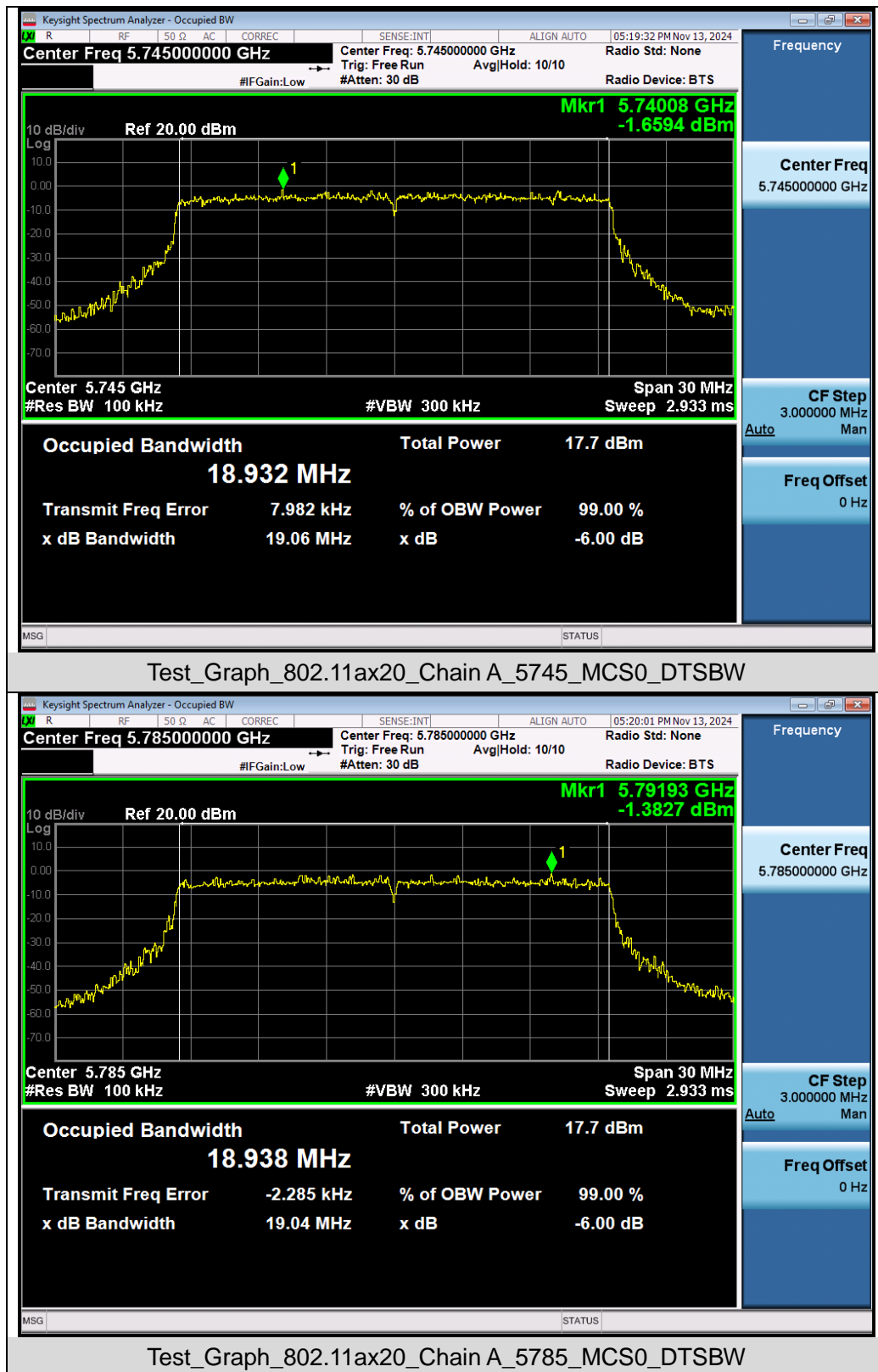


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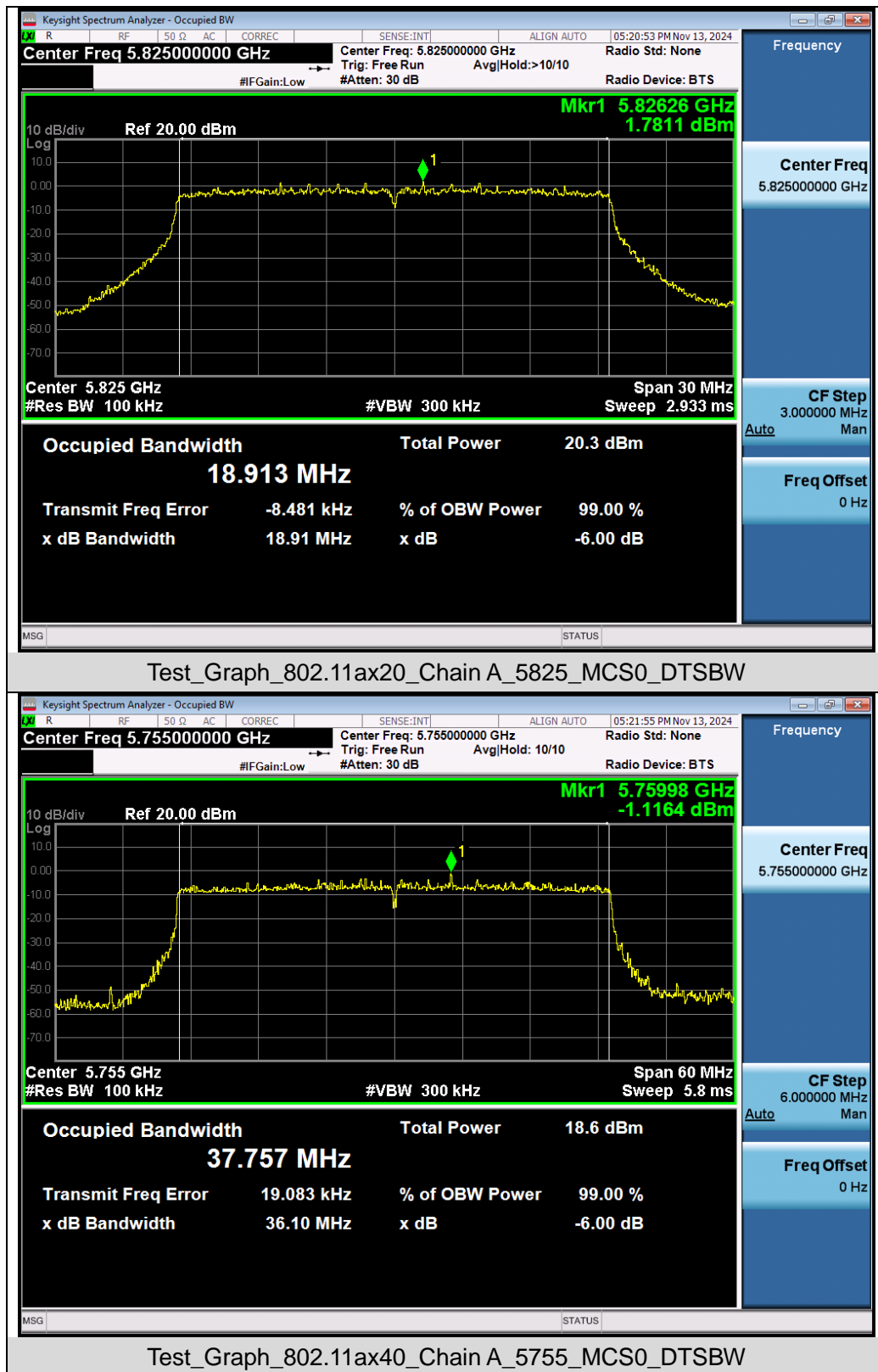


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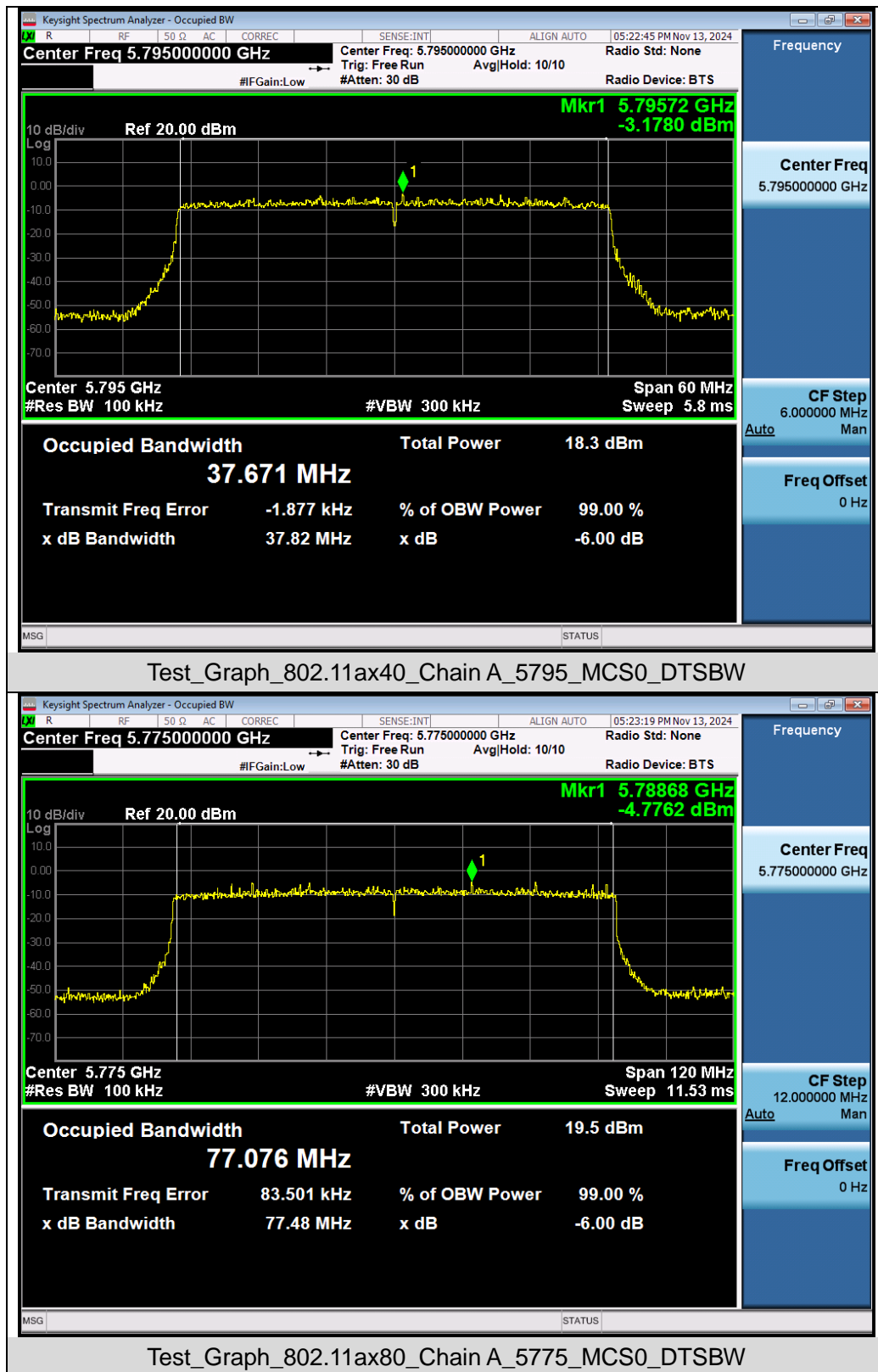
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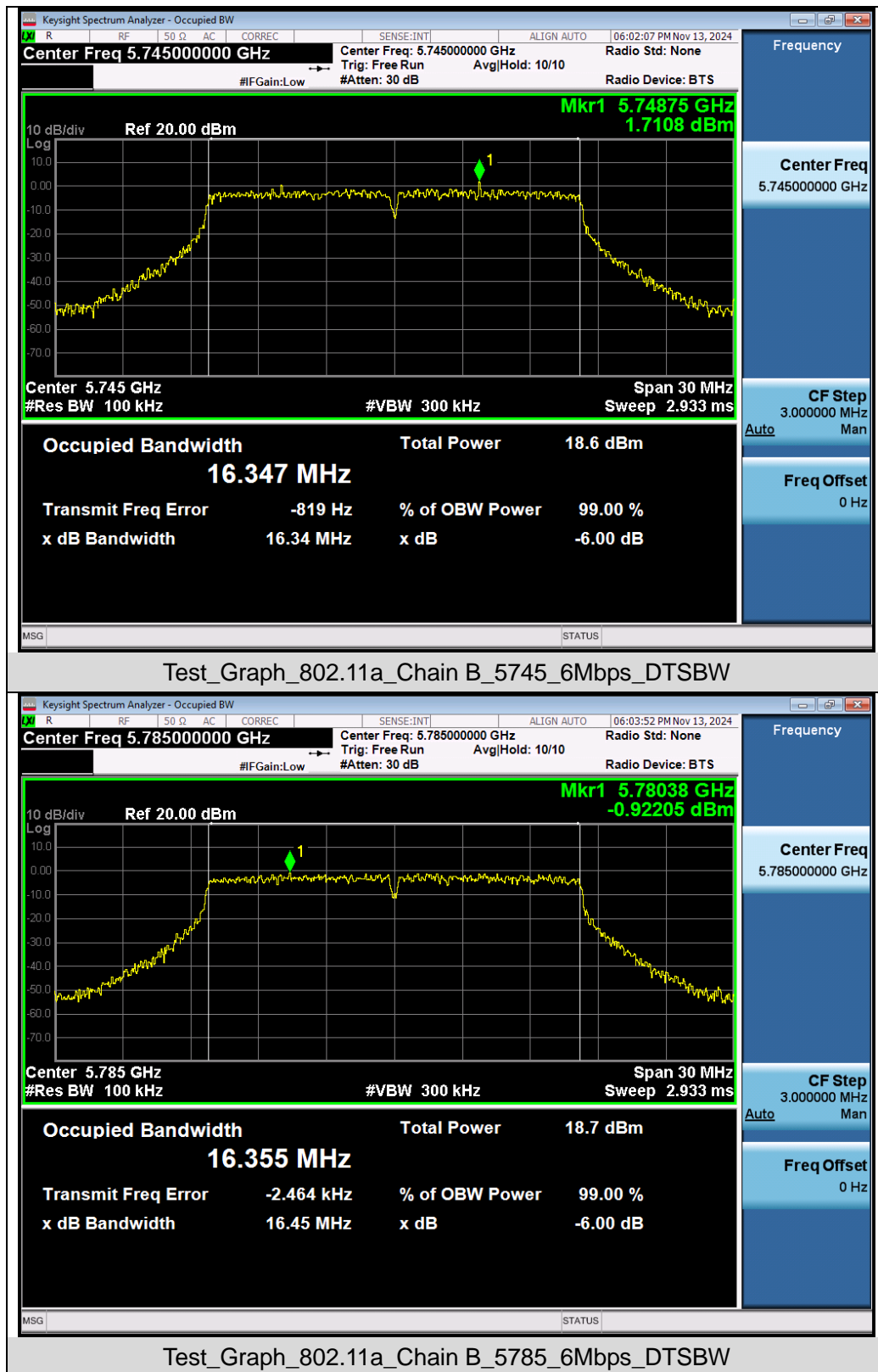


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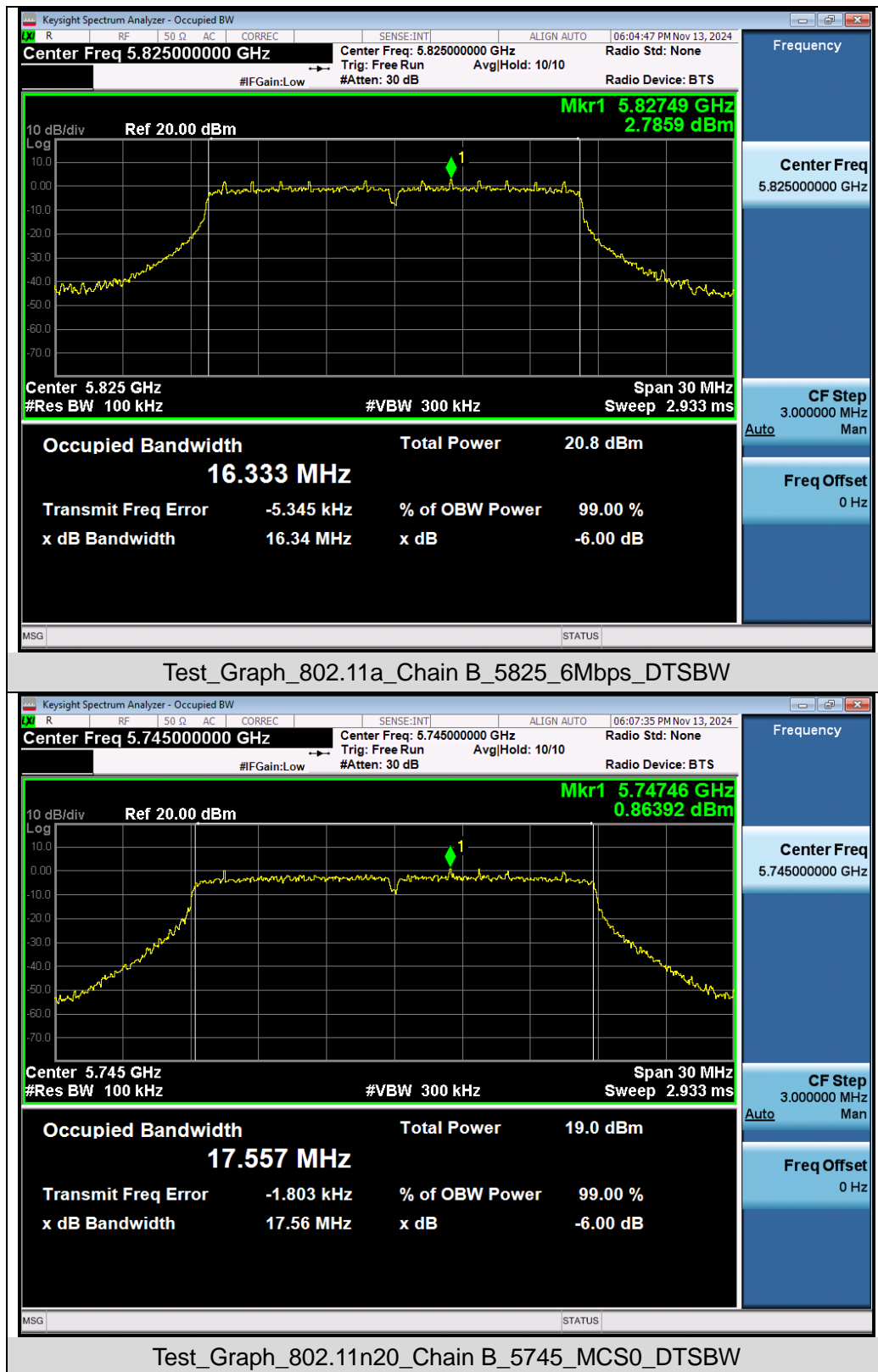
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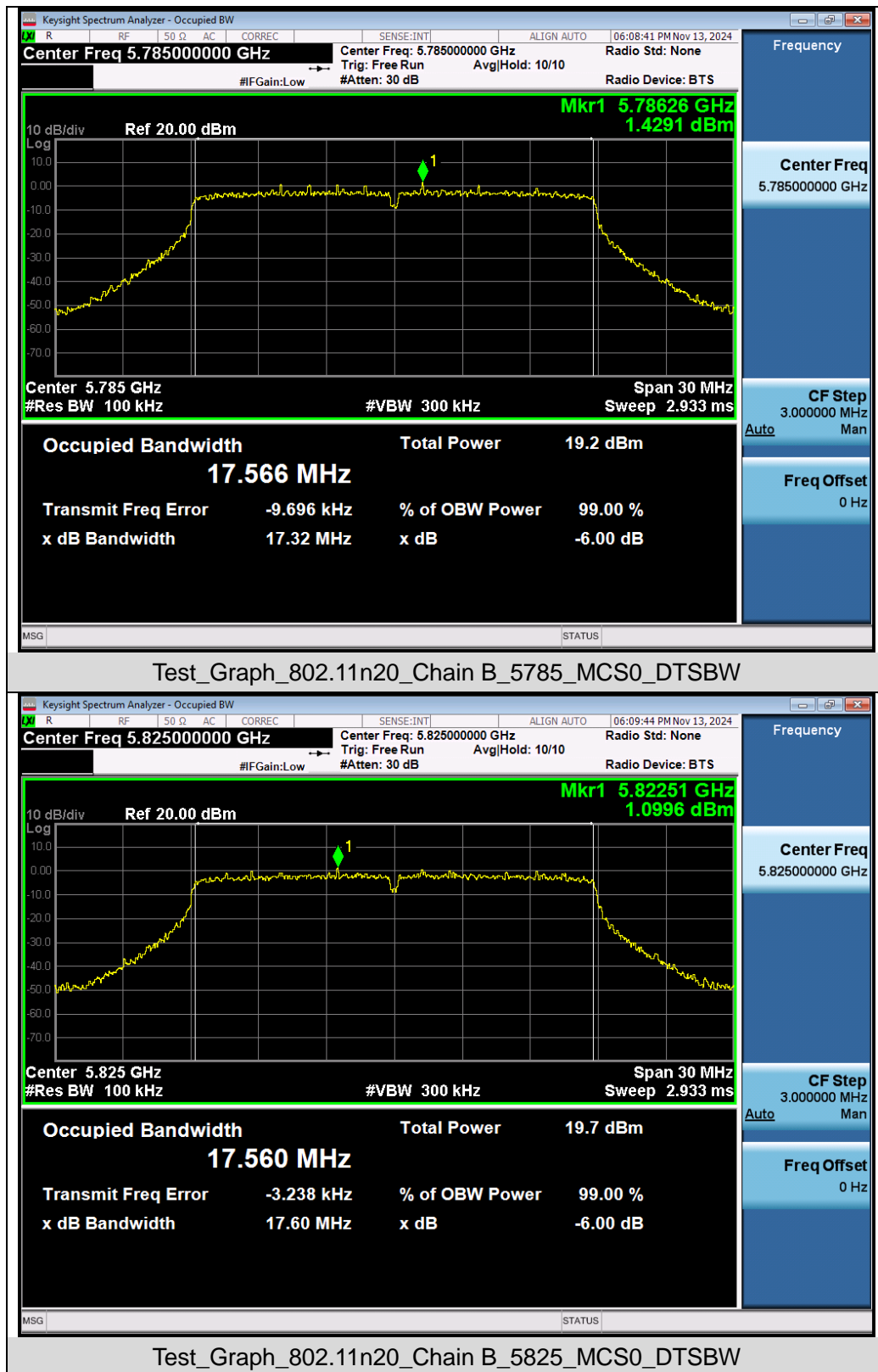


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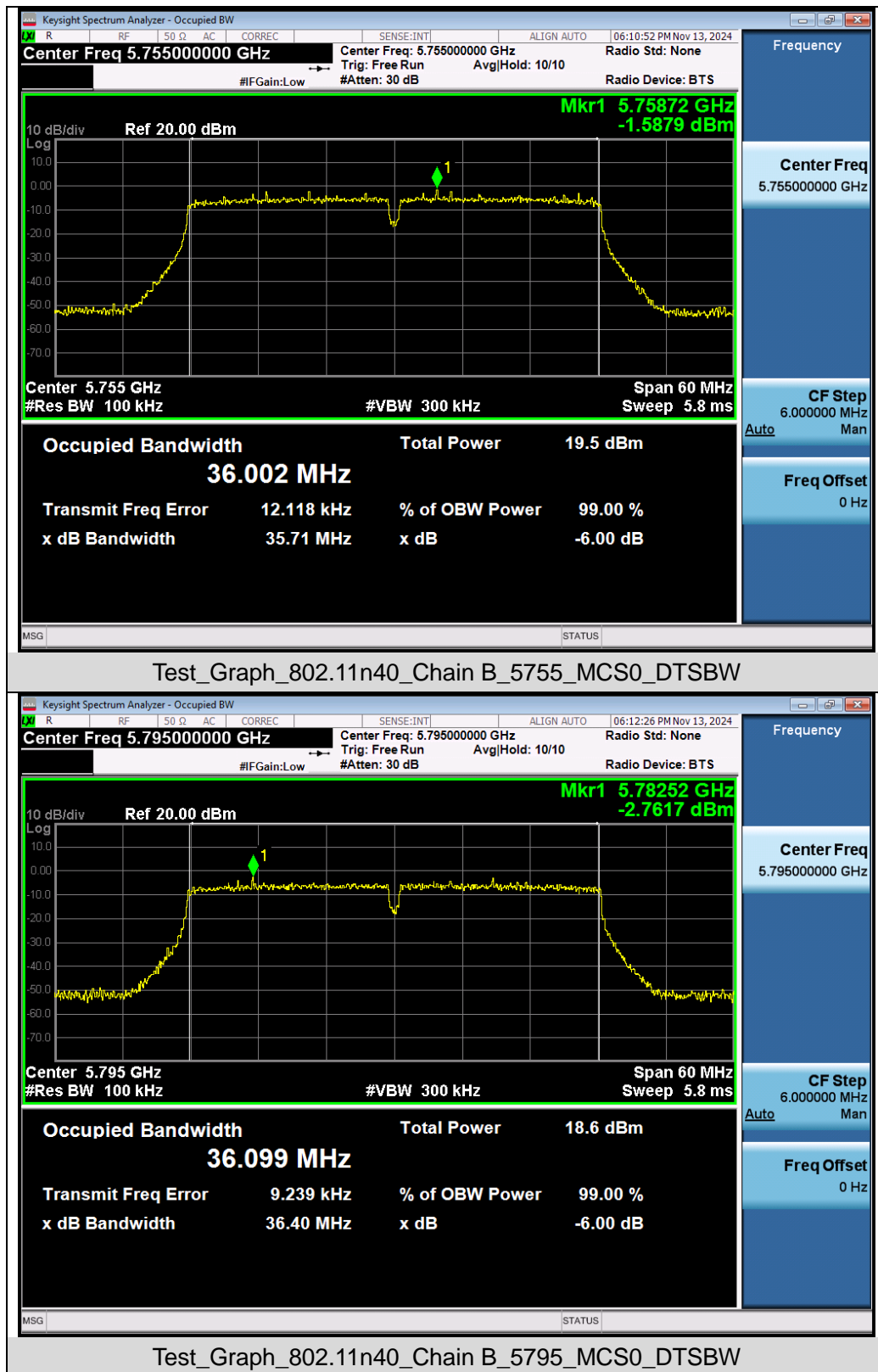


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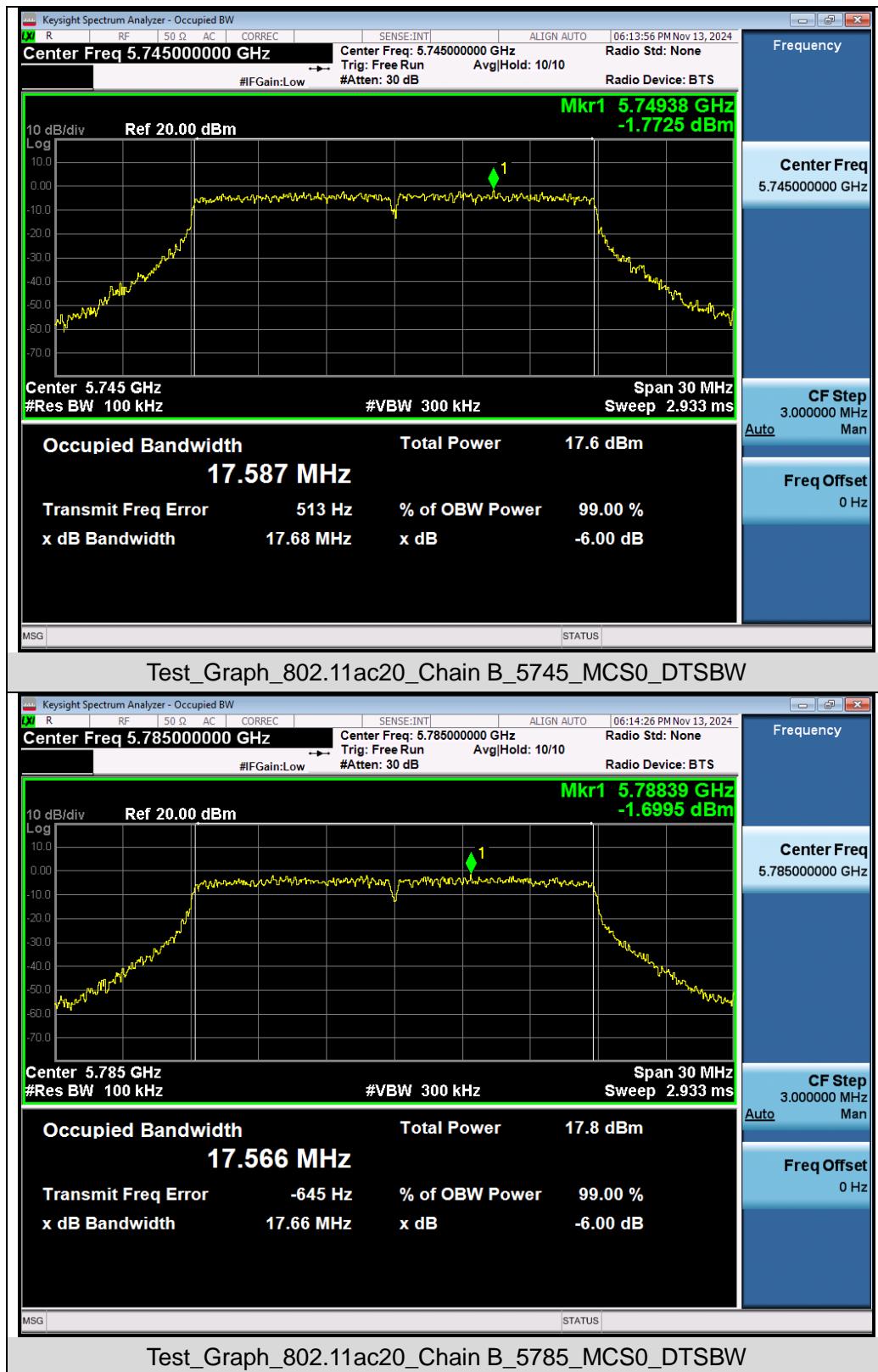


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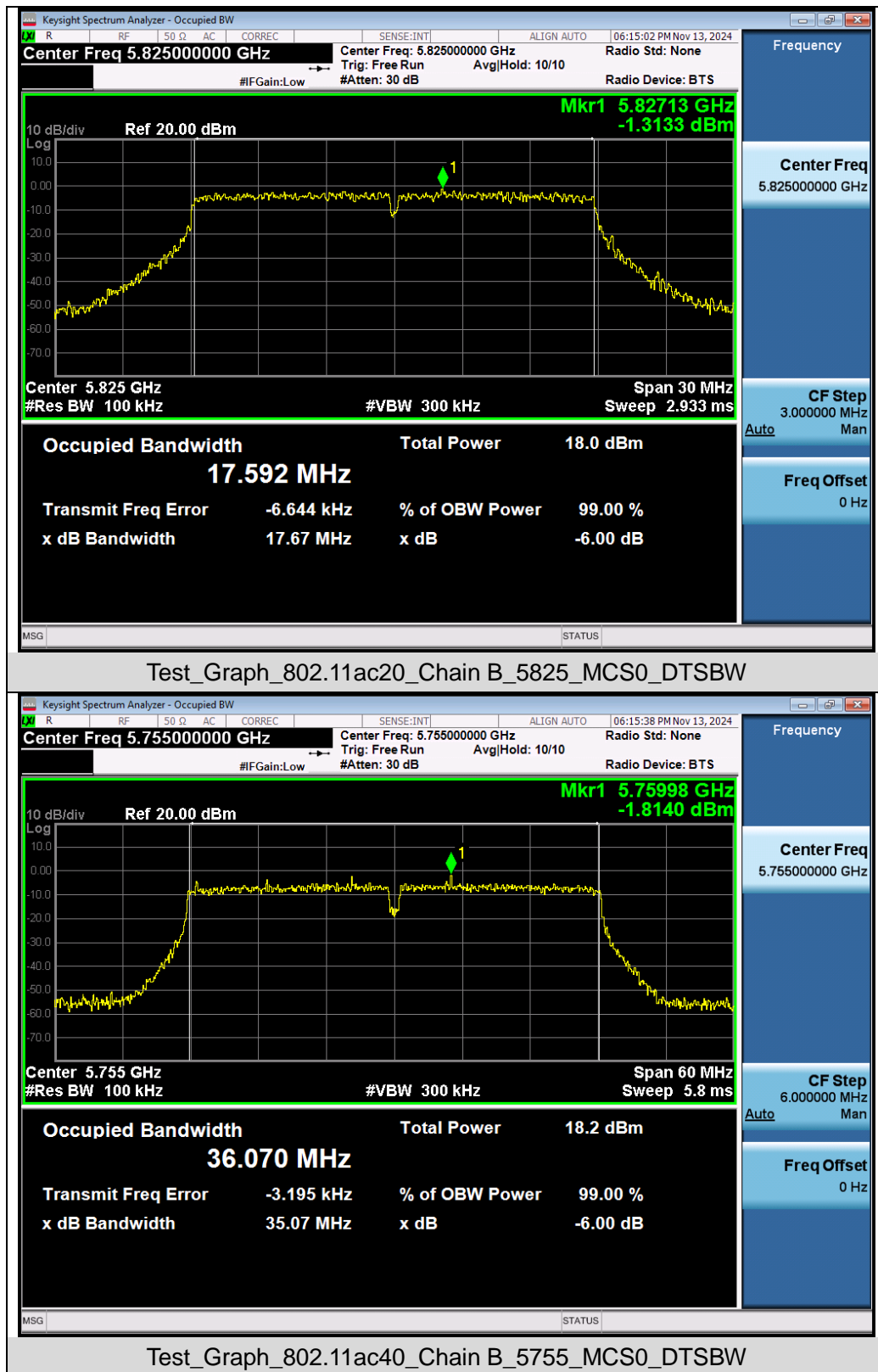
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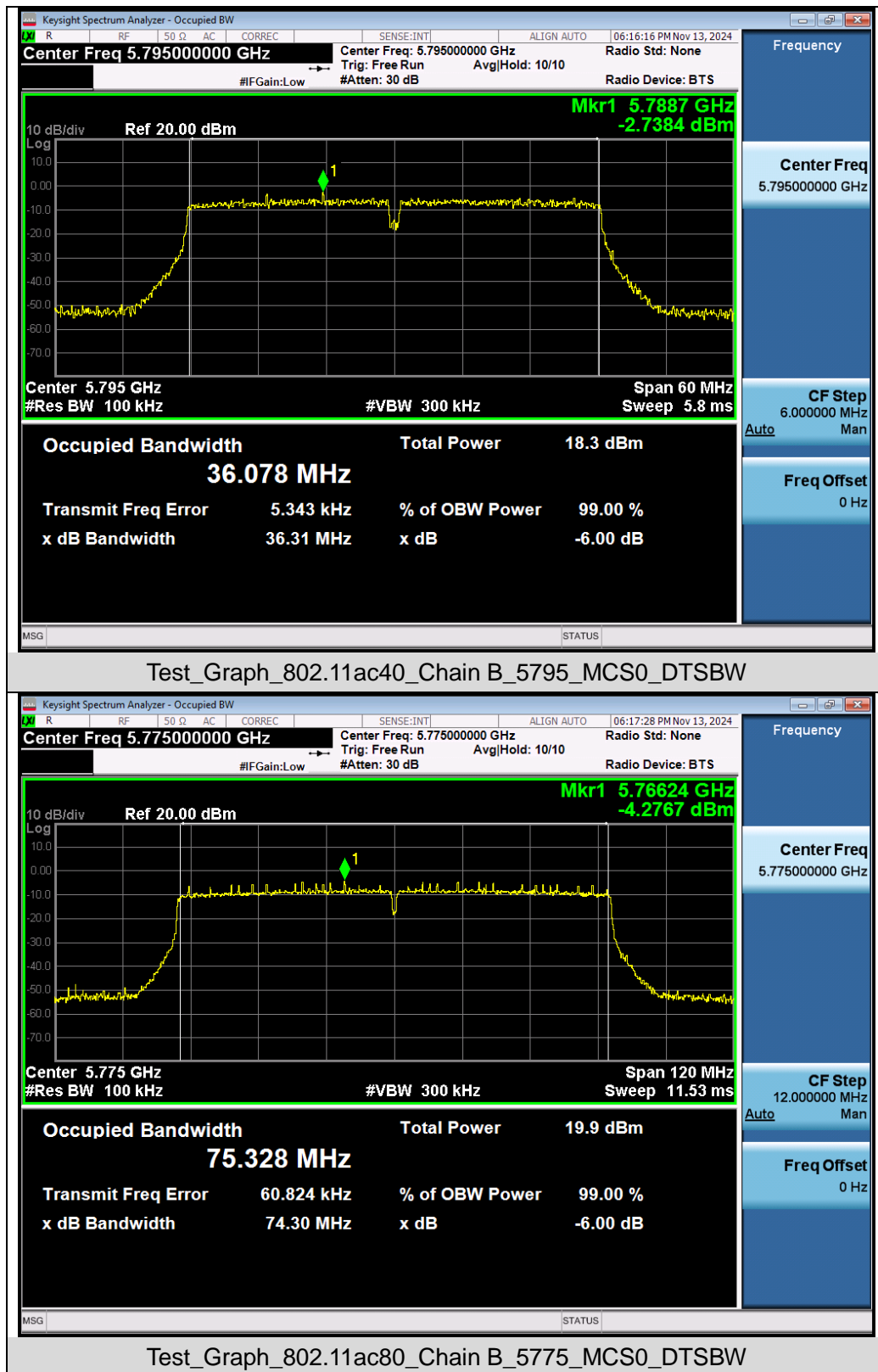
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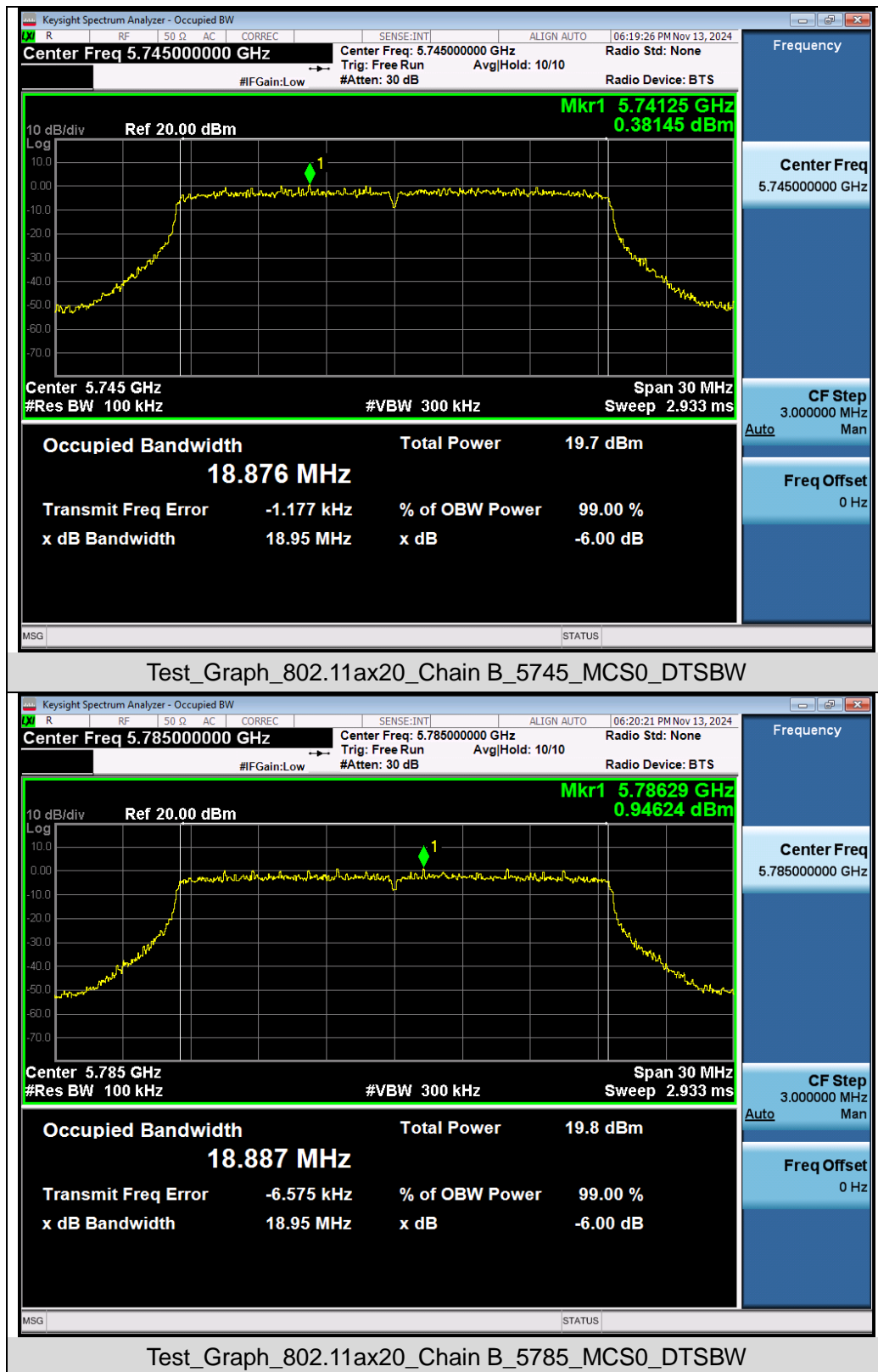


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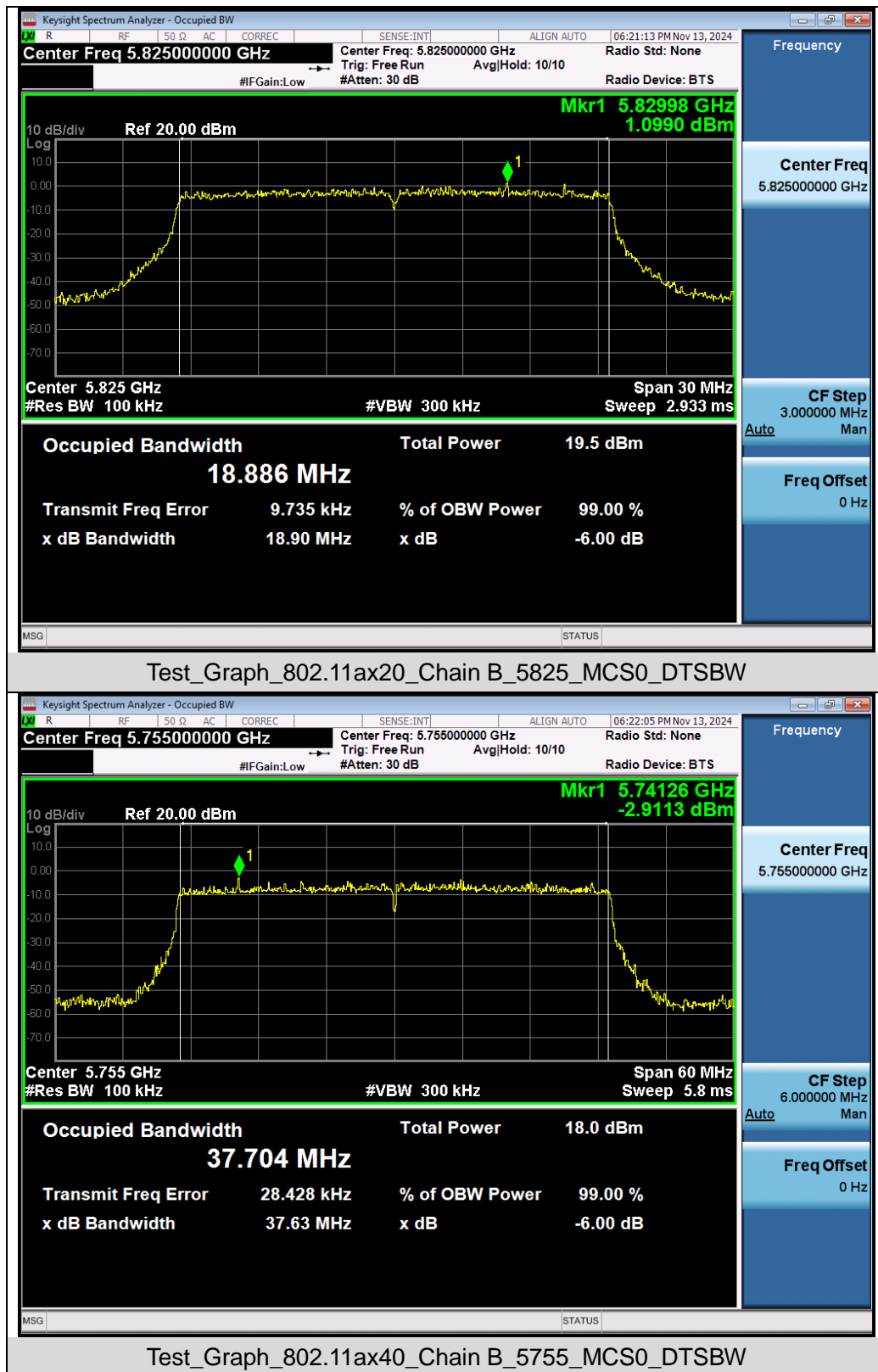


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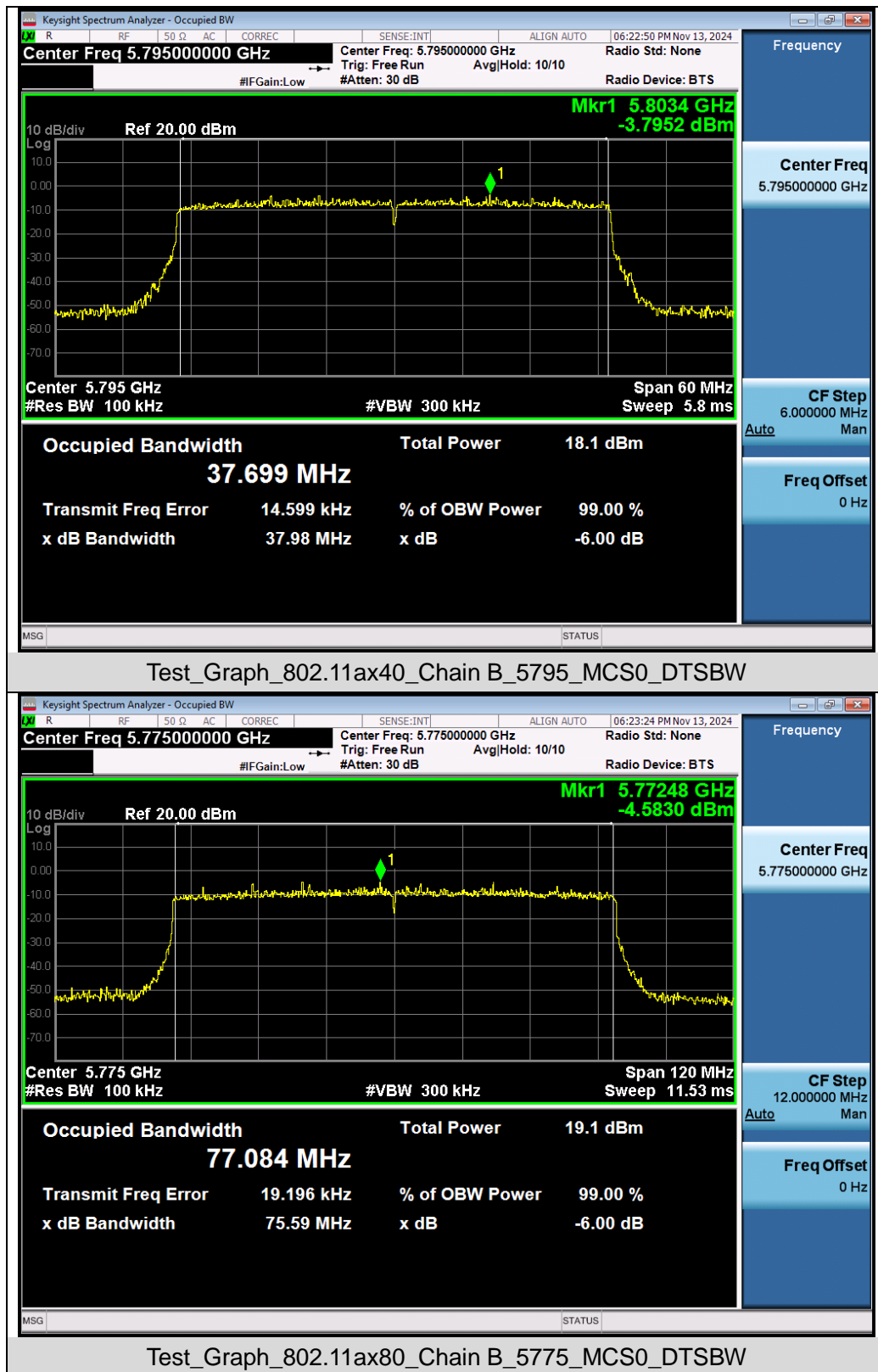
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## 9. Power Spectral Density Measurement

### 9.1 Provisions Applicable

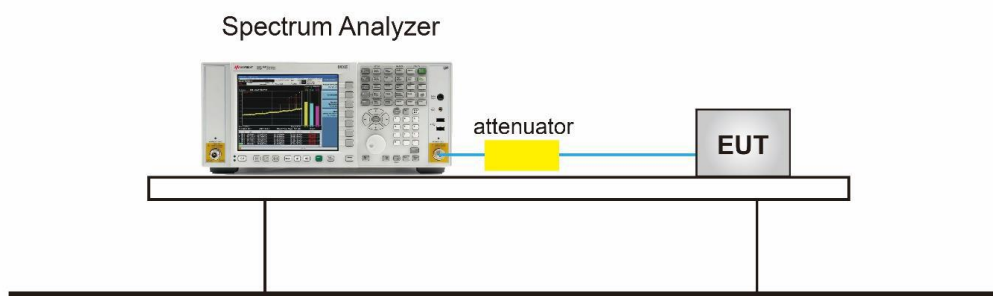
Operation Band	EUT Category		LIMIT
U-NII-1	<input type="checkbox"/>	Outdoor Access Point	17dBm/ MHz
	<input type="checkbox"/>	Fixed point-to-point Access Point	17dBm/ MHz
	<input type="checkbox"/>	Indoor Access Point	17dBm/ MHz
	<input checked="" type="checkbox"/>	Client devices	11dBm/ MHz
U-NII-2A	/		11dBm/ MHz
U-NII-2C	/		11dBm/ MHz
U-NII-3	/		30 dBm/500kHz

### 9.2 Measurement Procedure

☒ For Average power spectral density test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz.
4. If measurement bandwidth of Maximum PSD is specified in 500 kHz, RBW = 100KHz
5. Set VBW  $\geq [3 \times \text{RBW}]$ .
6. Sweep Time=Auto couple.
7. Detector function=RMS (i.e., power averaging).
8. Trace average at least 100 traces in power averaging (rms) mode.
9. When the measurement bandwidth of Maximum PSD is specified in 100 kHz, add a constant factor  $10 \times \log(500\text{kHz}/100\text{kHz}) = 6.99 \text{ dB}$  to the measured result.
10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
11. Add  $[10 \log (1/D)]$ , where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add  $[10 \log (1/0.25)] = 6 \text{ dB}$  if the duty cycle is 25%.
12. The final test results have been increased by the duty cycle factor and recorded in the report

### 9.3 Measurement Setup (Block Diagram of Configuration)



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#### 9.4 Measurement Result

Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-Chain A				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	3.569	11	Pass
	5200	3.469	11	Pass
	5240	3.533	11	Pass
802.11n20	5180	2.056	11	Pass
	5200	1.993	11	Pass
	5240	2.073	11	Pass
802.11n40	5190	-0.751	11	Pass
	5230	-0.662	11	Pass
802.11ac20	5180	2.076	11	Pass
	5200	2.048	11	Pass
	5240	2.096	11	Pass
802.11ac40	5190	-0.736	11	Pass
	5230	-0.590	11	Pass
802.11ac80	5210	-3.608	11	Pass
802.11ax20	5180	2.103	11	Pass
	5200	1.937	11	Pass
	5240	2.058	11	Pass
802.11ax40	5190	-0.970	11	Pass
	5230	-0.858	11	Pass
802.11ax80	5210	-3.588	11	Pass

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Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-Chain B				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11a	5180	2.932	11	Pass
	5200	2.572	11	Pass
	5240	3.116	11	Pass
802.11n20	5180	1.830	11	Pass
	5200	1.684	11	Pass
	5240	1.721	11	Pass
802.11n40	5190	-1.107	11	Pass
	5230	-1.022	11	Pass
802.11ac20	5180	1.707	11	Pass
	5200	1.563	11	Pass
	5240	1.689	11	Pass
802.11ac40	5190	-1.013	11	Pass
	5230	-1.021	11	Pass
802.11ac80	5210	-3.931	11	Pass
802.11ax20	5180	1.634	11	Pass
	5200	1.652	11	Pass
	5240	1.621	11	Pass
802.11ax40	5190	-1.333	11	Pass
	5230	-1.054	11	Pass
802.11ax80	5210	-3.788	11	Pass

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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-Chain A					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-6.090	0.900	30	Pass
	5785	-6.149	0.841	30	Pass
	5825	-6.022	0.968	30	Pass
802.11n20	5745	-7.592	-0.602	30	Pass
	5785	-7.562	-0.572	30	Pass
	5825	-7.778	-0.788	30	Pass
802.11n40	5755	-10.738	-3.748	30	Pass
	5795	-10.698	-3.708	30	Pass
802.11ac20	5745	-7.534	-0.544	30	Pass
	5785	-7.959	-0.969	30	Pass
	5825	-7.752	-0.762	30	Pass
802.11ac40	5755	-10.412	-3.422	30	Pass
	5795	-10.902	-3.912	30	Pass
802.11ac80	5775	-13.863	-6.873	30	Pass
802.11ax20	5745	-8.592	-1.602	30	Pass
	5785	-8.950	-1.960	30	Pass
	5825	-8.693	-1.703	30	Pass
802.11ax40	5755	-11.736	-4.746	30	Pass
	5795	-11.781	-4.791	30	Pass
802.11ax80	5775	-14.708	-7.718	30	Pass

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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-Chain B					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-6.516	0.474	30	Pass
	5785	-6.906	0.084	30	Pass
	5825	-6.252	0.738	30	Pass
802.11n20	5745	-8.297	-1.307	30	Pass
	5785	-8.189	-1.199	30	Pass
	5825	-7.499	-0.509	30	Pass
802.11n40	5755	-11.033	-4.043	30	Pass
	5795	-11.232	-4.242	30	Pass
802.11ac20	5745	-8.300	-1.310	30	Pass
	5785	-8.024	-1.034	30	Pass
	5825	-7.486	-0.496	30	Pass
802.11ac40	5755	-11.020	-4.030	30	Pass
	5795	-11.175	-4.185	30	Pass
802.11ac80	5775	-14.326	-7.336	30	Pass
802.11ax20	5745	-9.400	-2.410	30	Pass
	5785	-9.367	-2.377	30	Pass
	5825	-8.611	-1.621	30	Pass
802.11ax40	5755	-12.302	-5.312	30	Pass
	5795	-12.222	-5.232	30	Pass
802.11ax80	5775	-15.210	-8.220	30	Pass

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Test Data of Conducted Output Power Density for band 5.15-5.25 GHz-MIMO				
Test Mode	Test Channel (MHz)	Average Power Density (dBm/MHz)	Limits (dBm/MHz)	Pass or Fail
802.11n20	5180	4.955	11	Pass
	5200	4.852	11	Pass
	5240	4.911	11	Pass
802.11n40	5190	2.085	11	Pass
	5230	2.172	11	Pass
802.11ac20	5180	4.906	11	Pass
	5200	4.823	11	Pass
	5240	4.908	11	Pass
802.11ac40	5190	2.138	11	Pass
	5230	2.210	11	Pass
802.11ac80	5210	-0.756	11	Pass
802.11ax20	5180	4.885	11	Pass
	5200	4.807	11	Pass
	5240	4.855	11	Pass
802.11ax40	5190	1.863	11	Pass
	5230	2.055	11	Pass
802.11ax80	5210	-0.677	11	Pass

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Test Data of Conducted Output Power Density for band 5.725-5.85 GHz-MIMO					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/100kHz)	Average Power Density (dBm/500kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11n20	5745	-4.920	2.070	30	Pass
	5785	-4.854	2.136	30	Pass
	5825	-4.626	2.364	30	Pass
802.11n40	5755	-7.873	-0.883	30	Pass
	5795	-7.946	-0.956	30	Pass
802.11ac20	5745	-4.890	2.100	30	Pass
	5785	-4.981	2.009	30	Pass
	5825	-4.607	2.383	30	Pass
802.11ac40	5755	-7.695	-0.705	30	Pass
	5795	-8.026	-1.036	30	Pass
802.11ac80	5775	-11.078	-4.088	30	Pass
802.11ax20	5745	-5.967	1.023	30	Pass
	5785	-6.143	0.847	30	Pass
	5825	-5.642	1.348	30	Pass
802.11ax40	5755	-8.999	-2.009	30	Pass
	5795	-8.986	-1.996	30	Pass
802.11ax80	5775	-11.941	-4.951	30	Pass

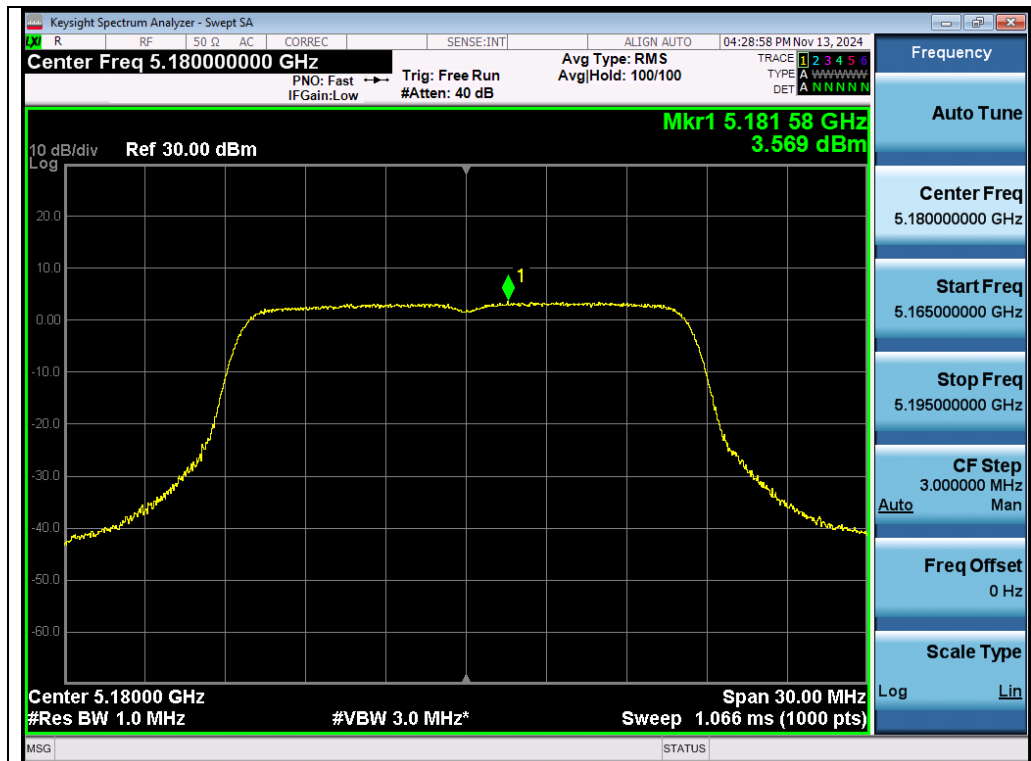
Note:1.Power density(dBm/500kHz) = Power density(dBm/100kHz)+10\*log(500/100).

2.The Total PSD(dBm/500kHz) =  $10^{\text{(Chain A PSD/10)}} + 10^{\text{(Chain B PSD/10)}}$ (dBm/500kHz).

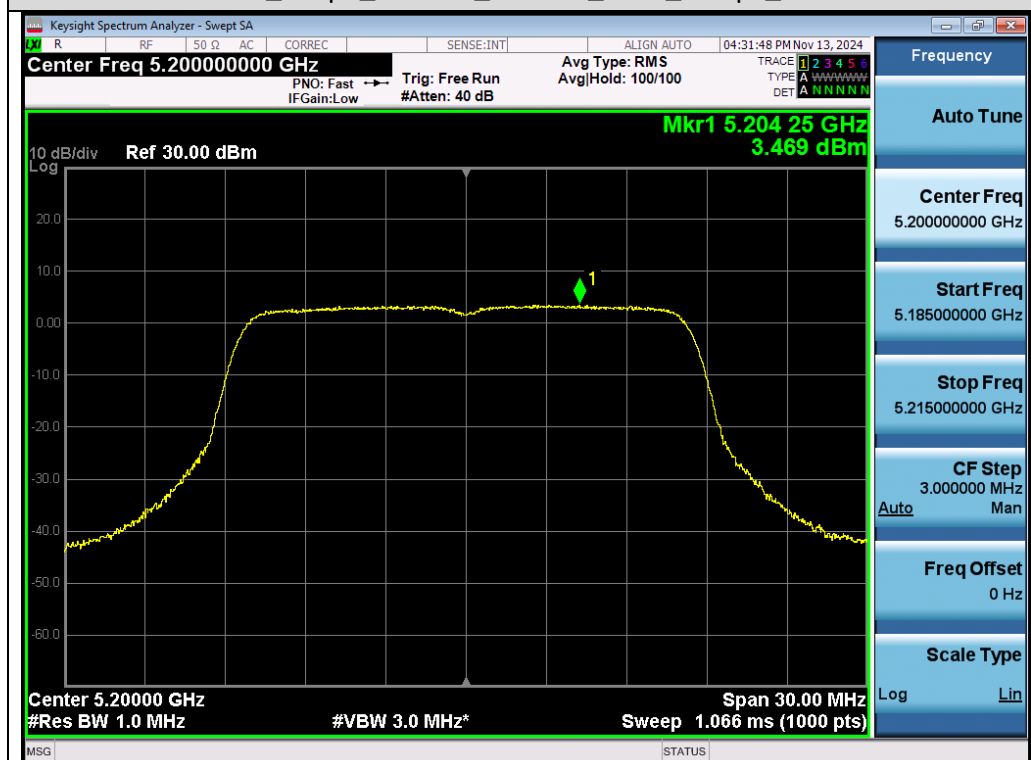
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### Test Graphs of Conducted Output Power Spectral Density for band 5.15-5.25 GHz



Test\_Graph\_802.11a\_Chain A\_5180\_6Mbps\_PSD



Test\_Graph\_802.11a\_Chain A\_5200\_6Mbps\_PSD

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