

6. 20dB & 26dB Bandwidth Test

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,14	1 Year

6.2. Limit

No limit

6.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 300kHz RBW and 1 MHz VBW. The 26dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 26dB.

6.4. Test Results

20dB bandwidth

EUT: AC1750 Wireless Dual Band DOCSIS 3.0 Cable Modem Router		
M/N: Archer CR700		
Test date: 2014-07-30	Pressure: 101.2±1.0kpa	Humidity: 49.5±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.3±0.6 °C

Cable loss: 2 dB		Attenuator loss: 20 dB			
Test Mode	CH	20dB bandwidth (MHz)			Limit (KHz)
		ANT0	ANT1	ANT2	
11a	CH36	18.06	17.69	18.30	N/A
	CH40	18.03	17.43	18.29	N/A
	CH48	18.07	17.50	18.10	N/A
11n HT20	CH36	18.84	18.55	18.93	N/A
	CH40	18.72	18.63	18.83	N/A
	CH48	18.86	18.64	18.89	N/A
11n HT40	CH38	38.15	37.71	38.04	N/A
	CH46	38.00	37.80	37.96	N/A
11ac VHT20	CH36	18.86	18.57	18.82	N/A
	CH40	18.85	19.66	18.79	N/A
	CH48	18.84	18.48	18.97	N/A
11ac VHT40	CH38	38.00	37.93	38.10	N/A
	CH46	38.17	37.81	38.06	N/A
11ac VHT80	CH42	78.57	78.00	78.10	N/A

Conclusion : PASS

26dB bandwidth

EUT: AC1750 Wireless Dual Band DOCSIS 3.0 Cable Modem Router		
M/N: Archer CR700		
Test date: 2014-07-30	Pressure: 101.4±1.0kpa	Humidity: 49.7±3.0%
Tested by: Kevin_Hu	Test site: RF site	Temperature:22.6±0.6 °C

Cable loss: 2 dB		Attenuator loss: 20 dB			
Test Mode	CH	26dB bandwidth (MHz)			Limit (KHz)
		ANT0	ANT1	ANT2	
11a	CH36	19.55	18.94	19.81	N/A
	CH40	19.51	19.18	19.65	N/A
	CH48	19.55	19.19	19.57	N/A
11n HT20	CH36	19.85	19.66	19.86	N/A
	CH40	19.89	19.57	19.91	N/A
	CH48	19.77	19.82	19.78	N/A
11n HT40	CH38	39.41	38.98	39.34	N/A
	CH46	39.21	38.69	39.30	N/A
11ac VHT20	CH36	19.87	19.74	19.68	N/A
	CH40	19.83	18.65	19.83	N/A
	CH48	19.80	19.77	19.80	N/A
11ac VHT40	CH38	39.42	38.85	39.12	N/A
	CH46	39.49	38.67	39.09	N/A
11ac VHT80	CH42	80.65	79.83	80.48	N/A

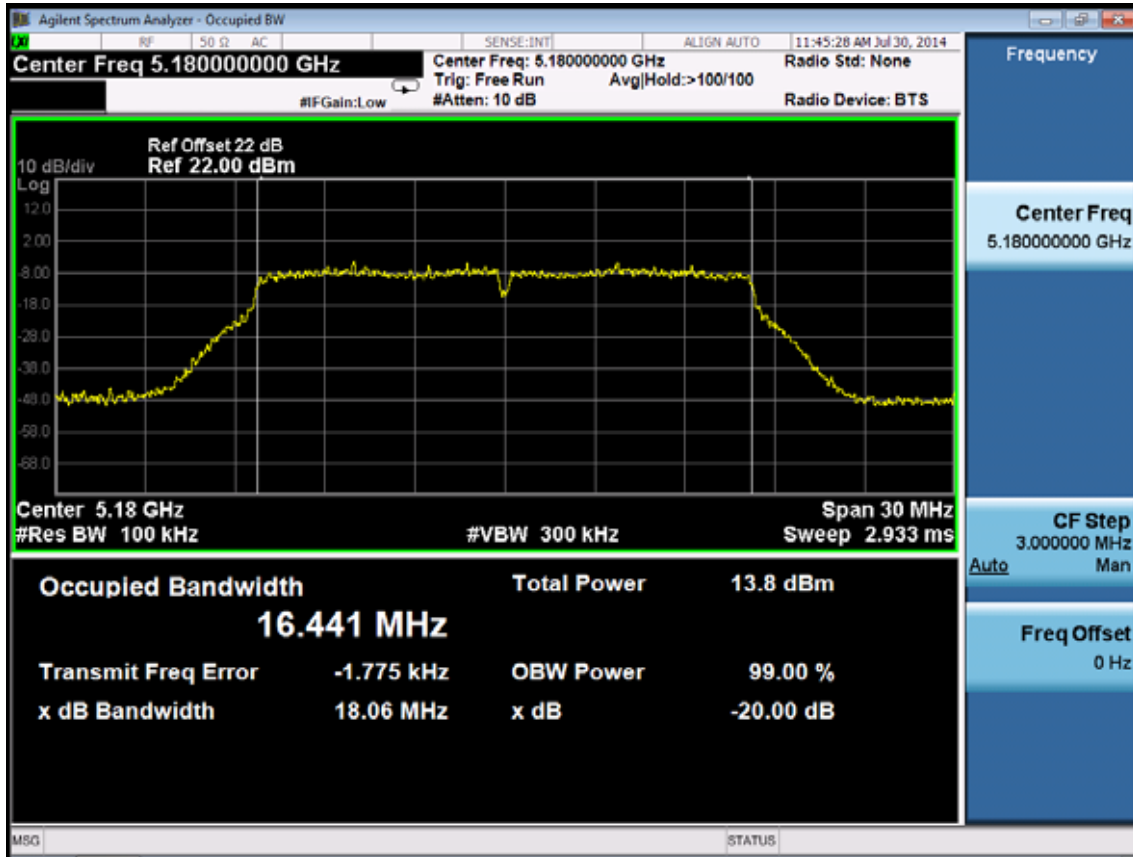
Conclusion : PASS

20dB bandwidth

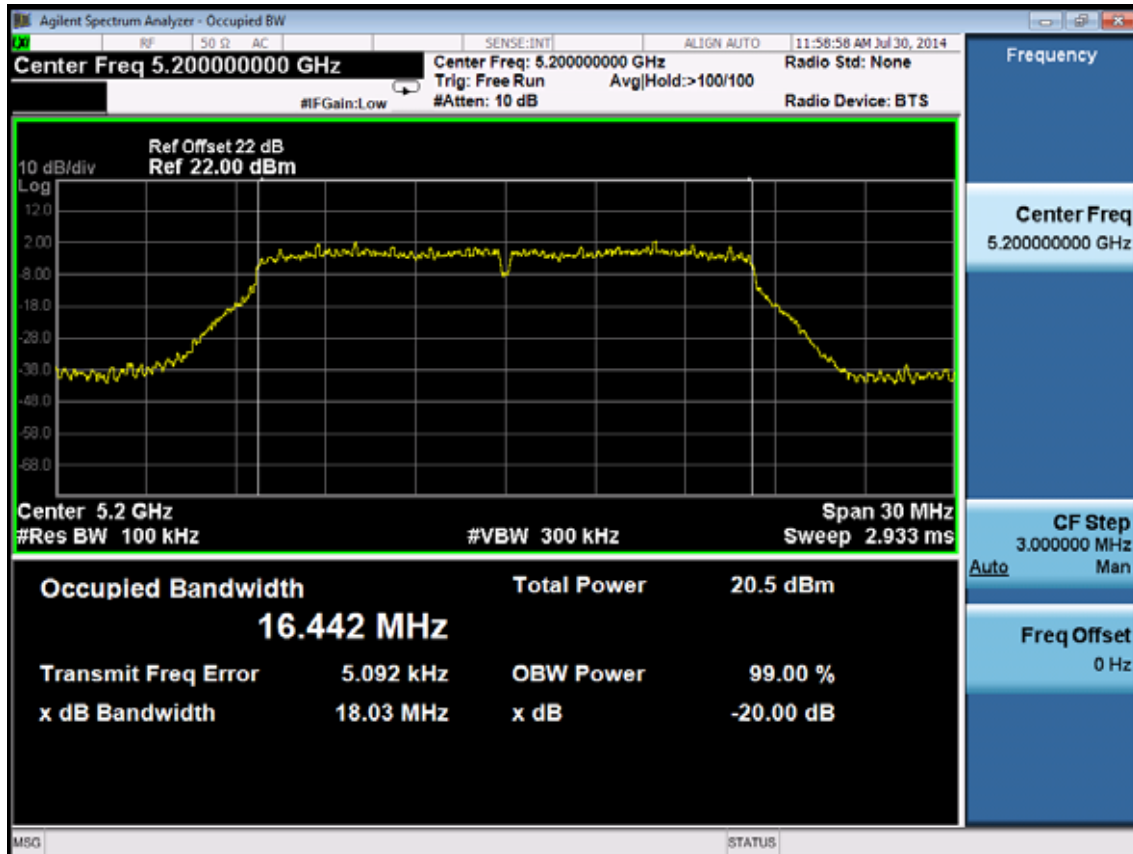
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11a

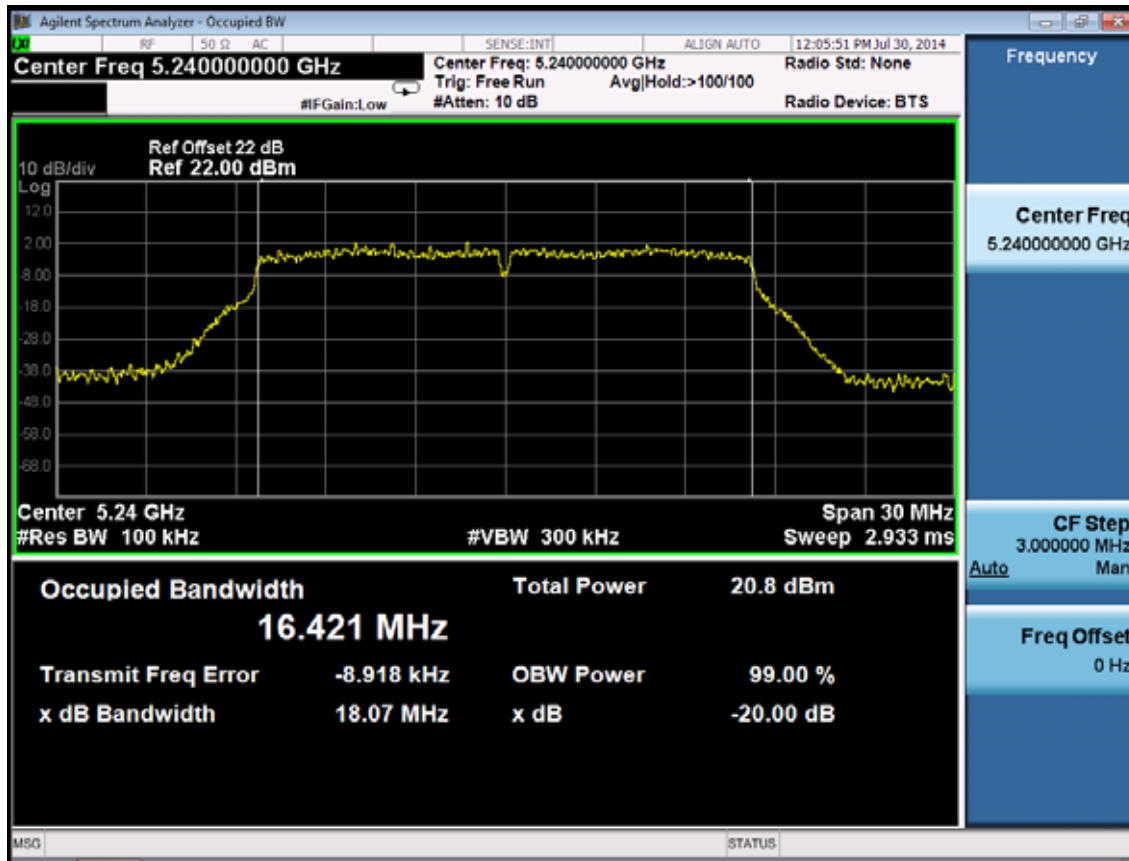
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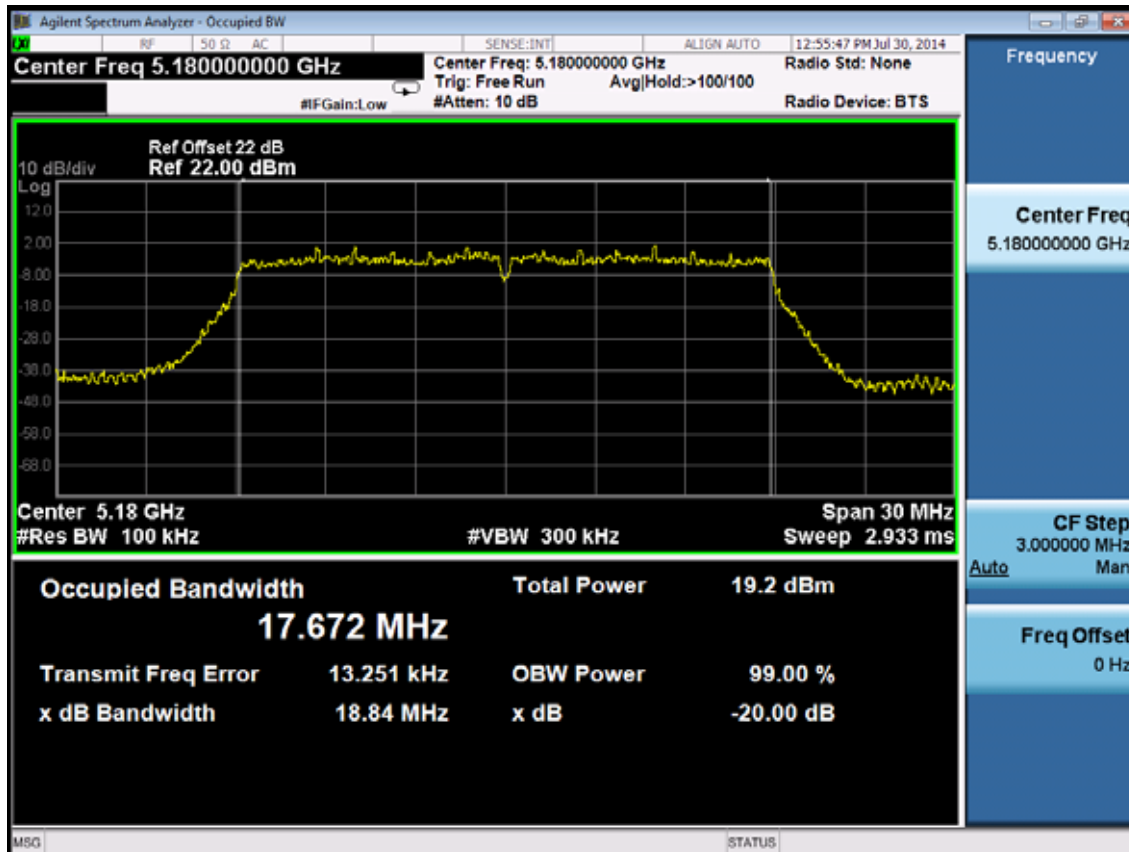


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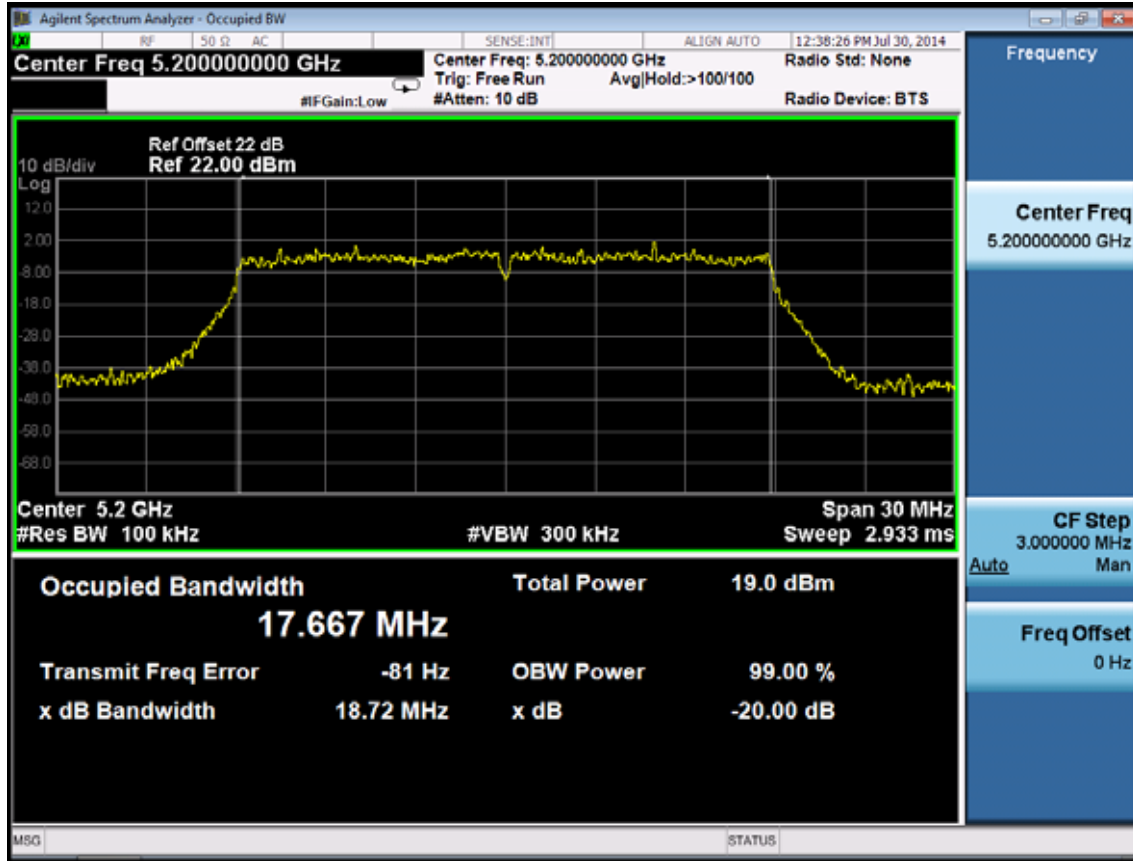


11n HT20

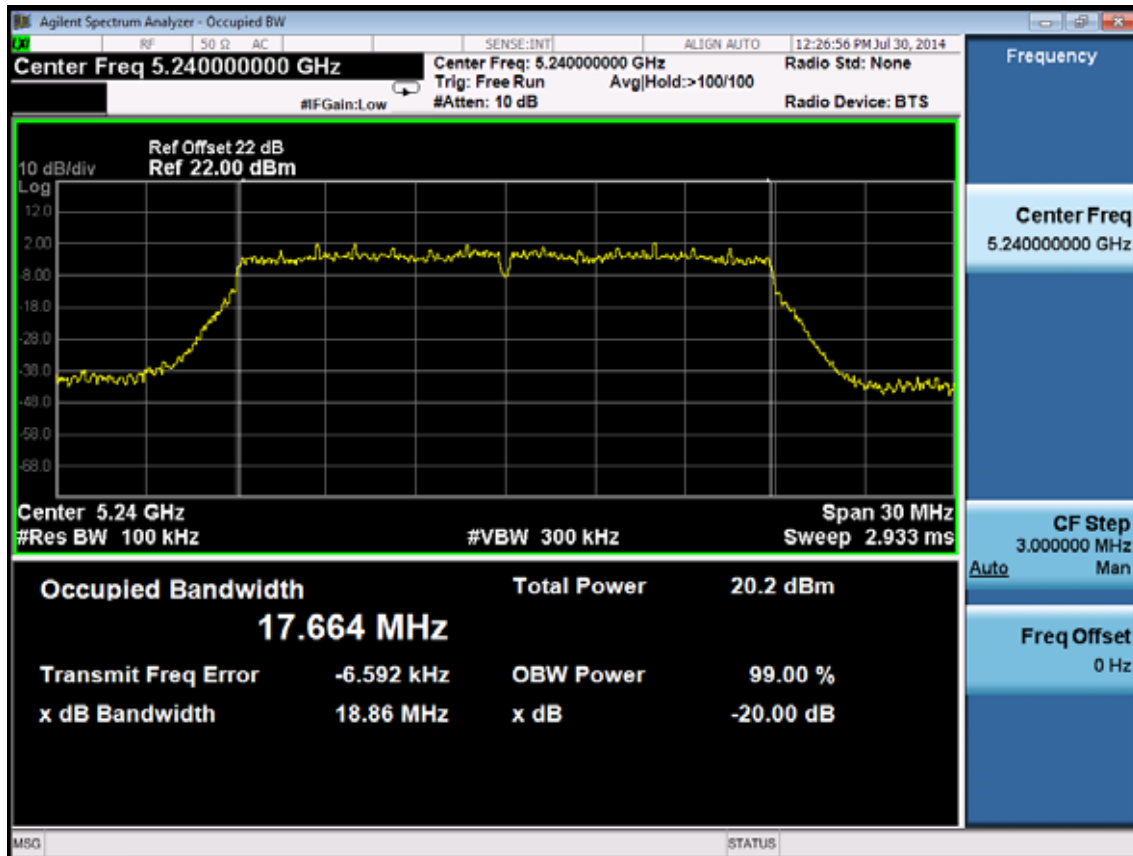
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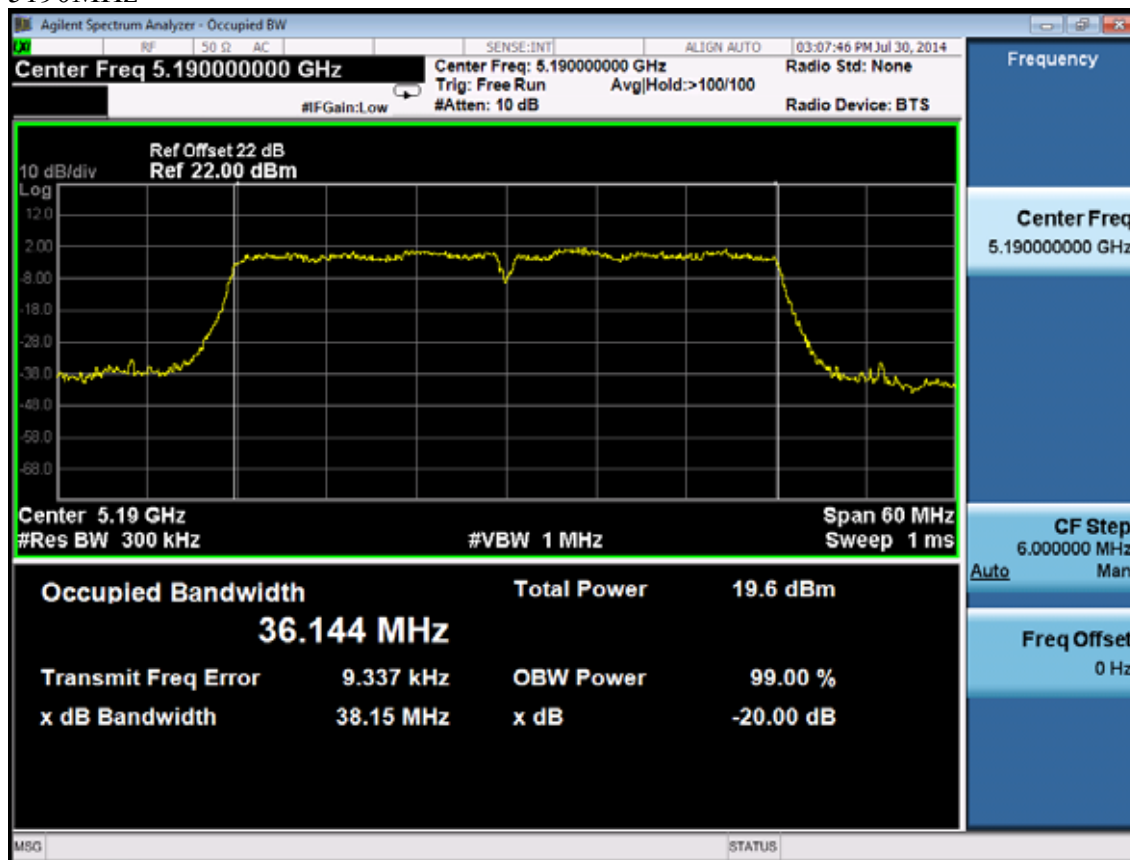


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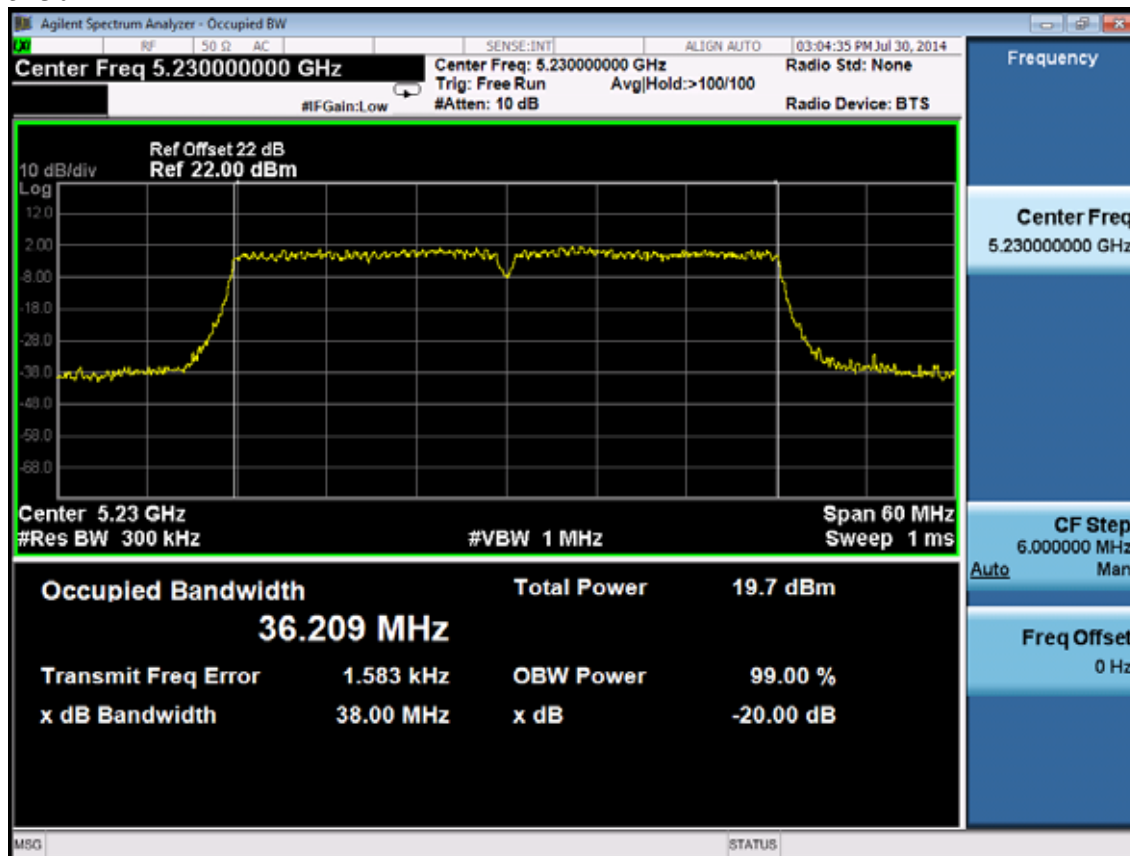


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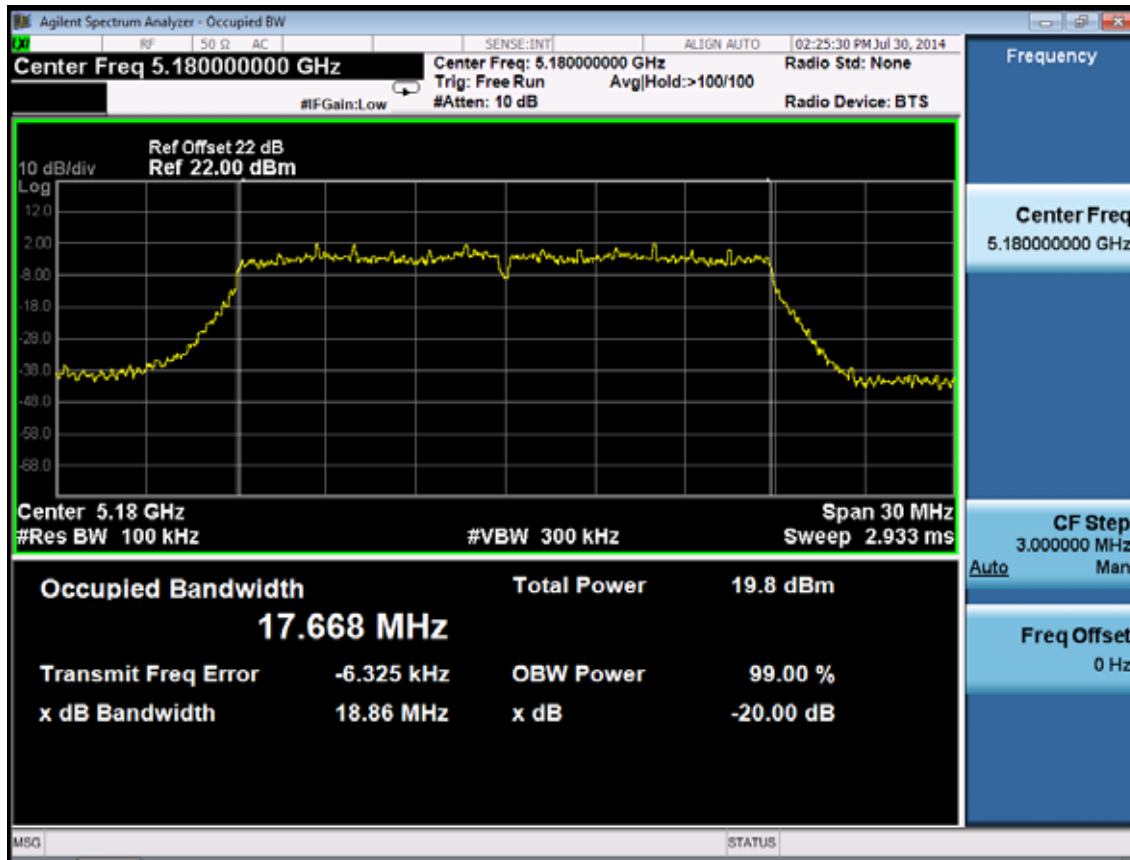
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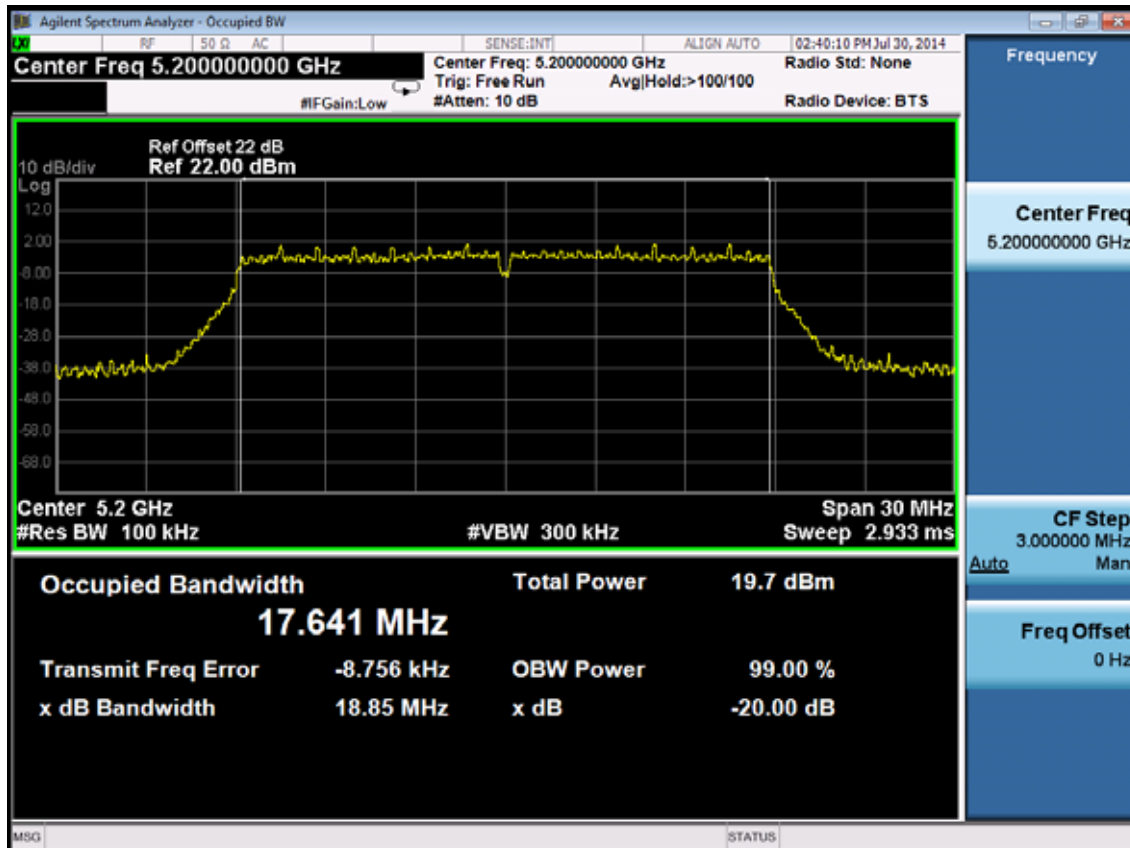
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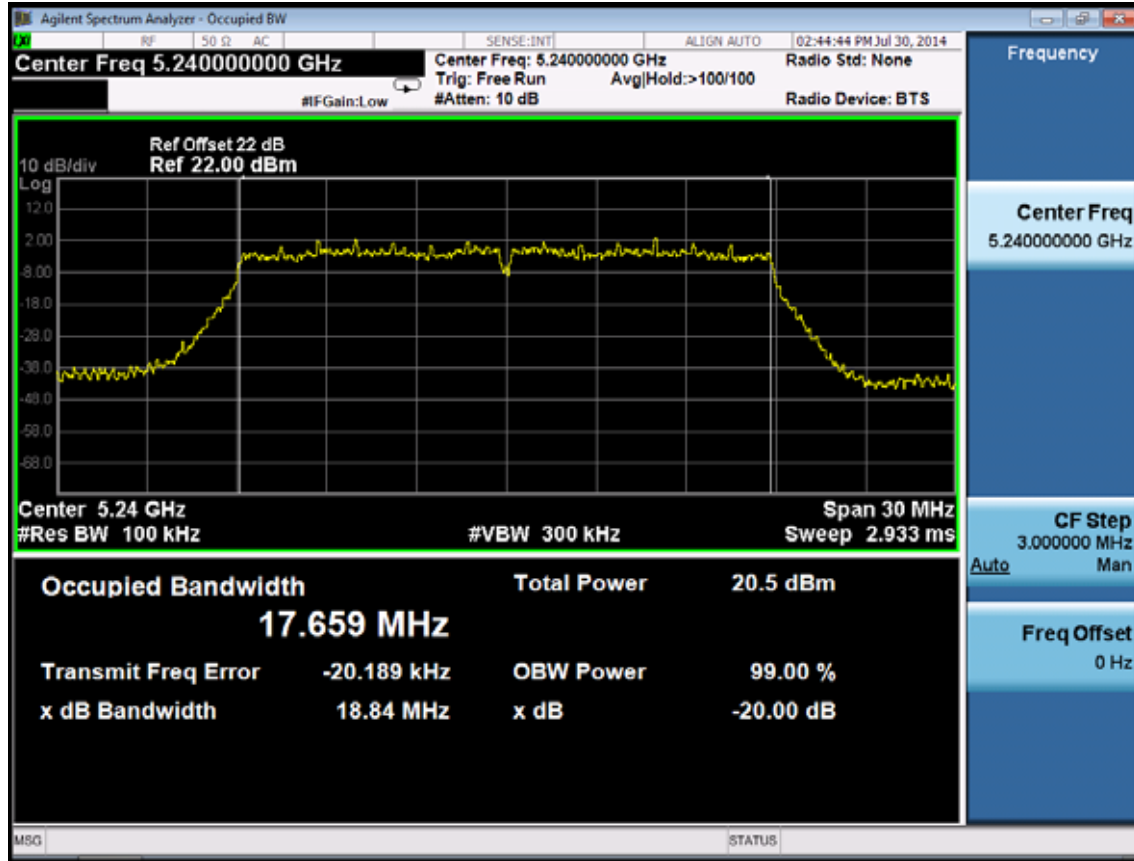
11ac VHT20
5180MHz



5200MHz

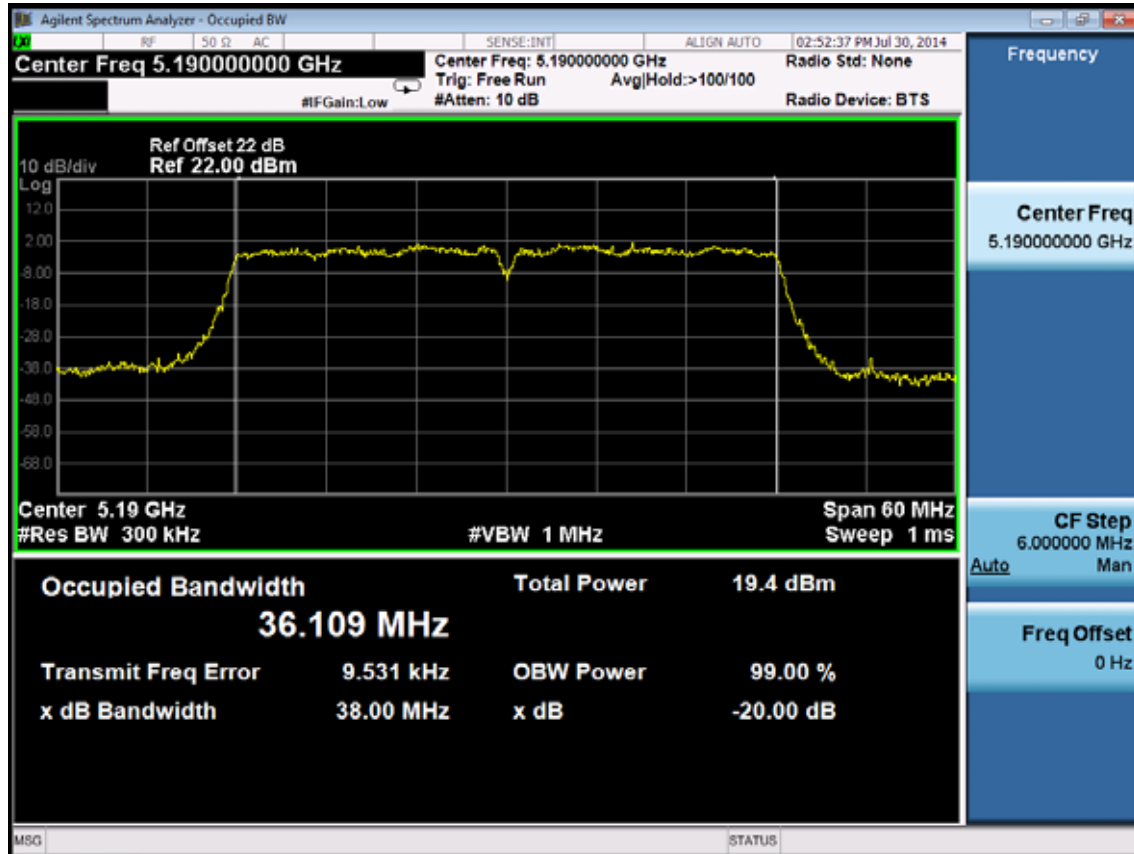


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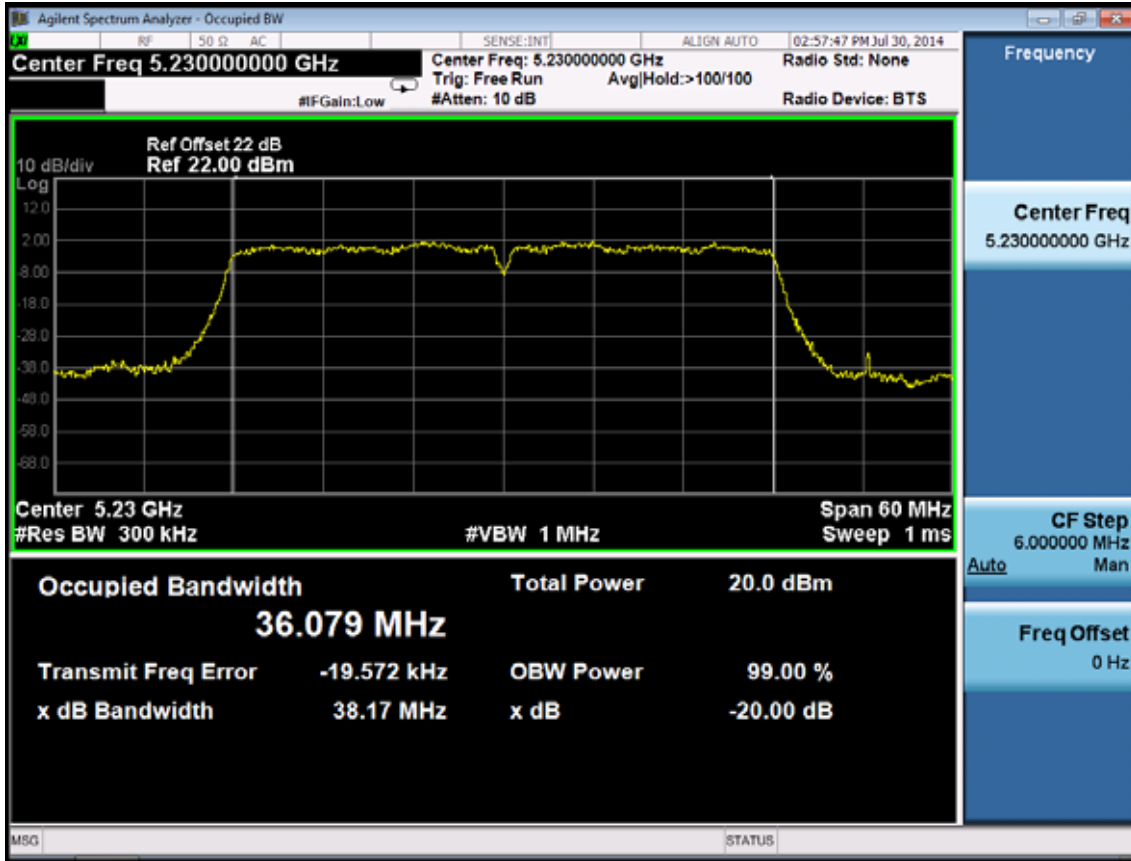


11ac VHT40

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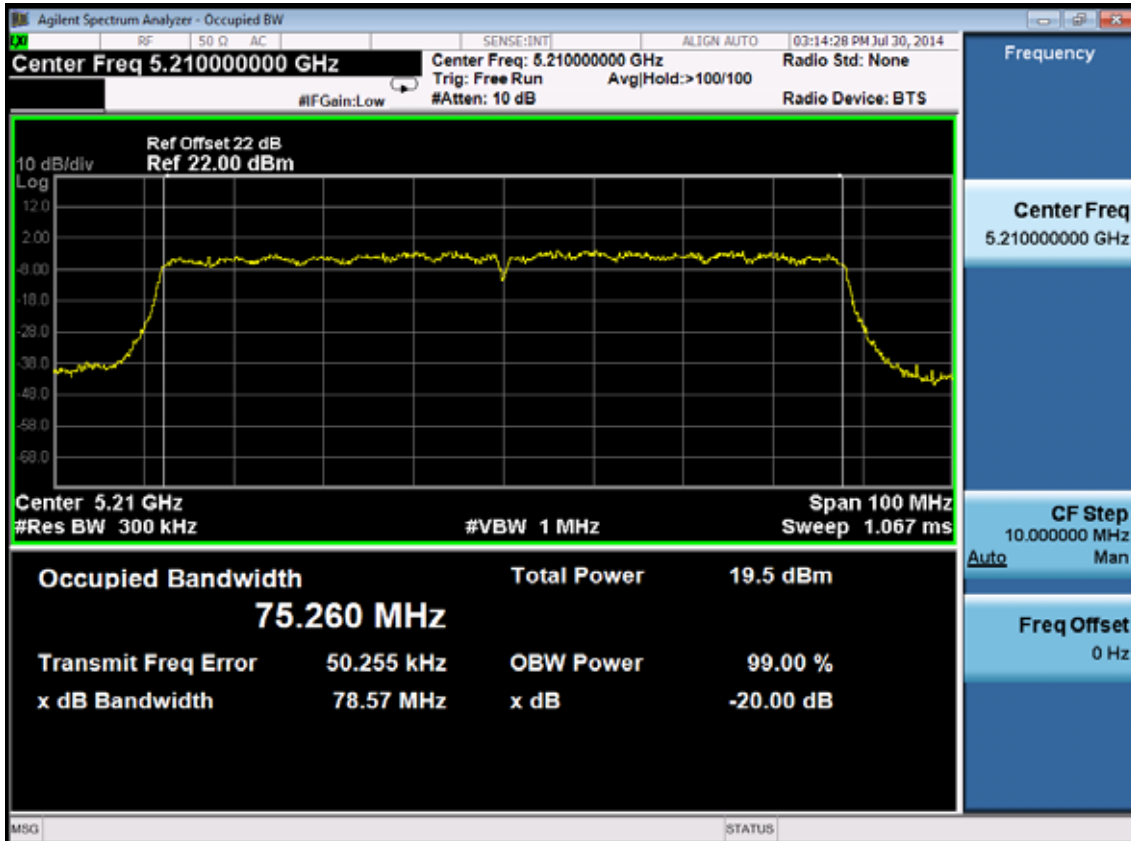


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11ac VHT80

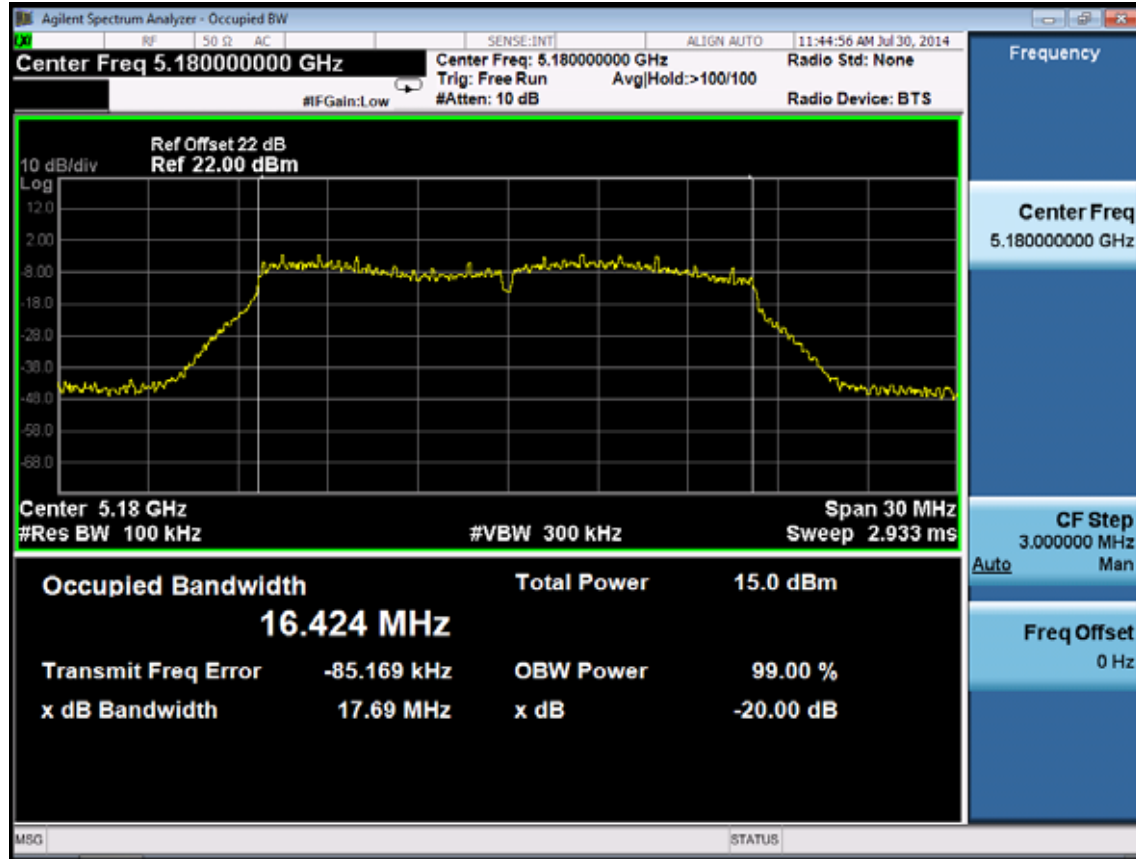
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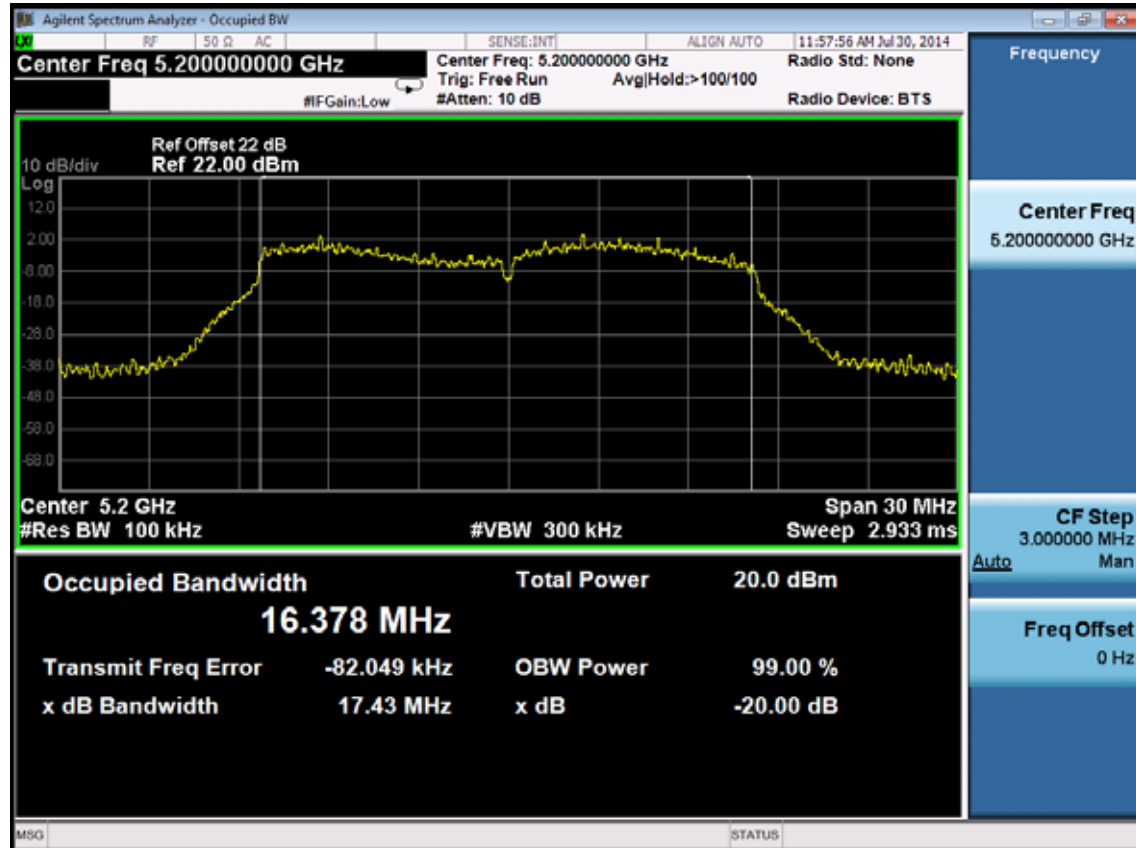
ANT1

11a

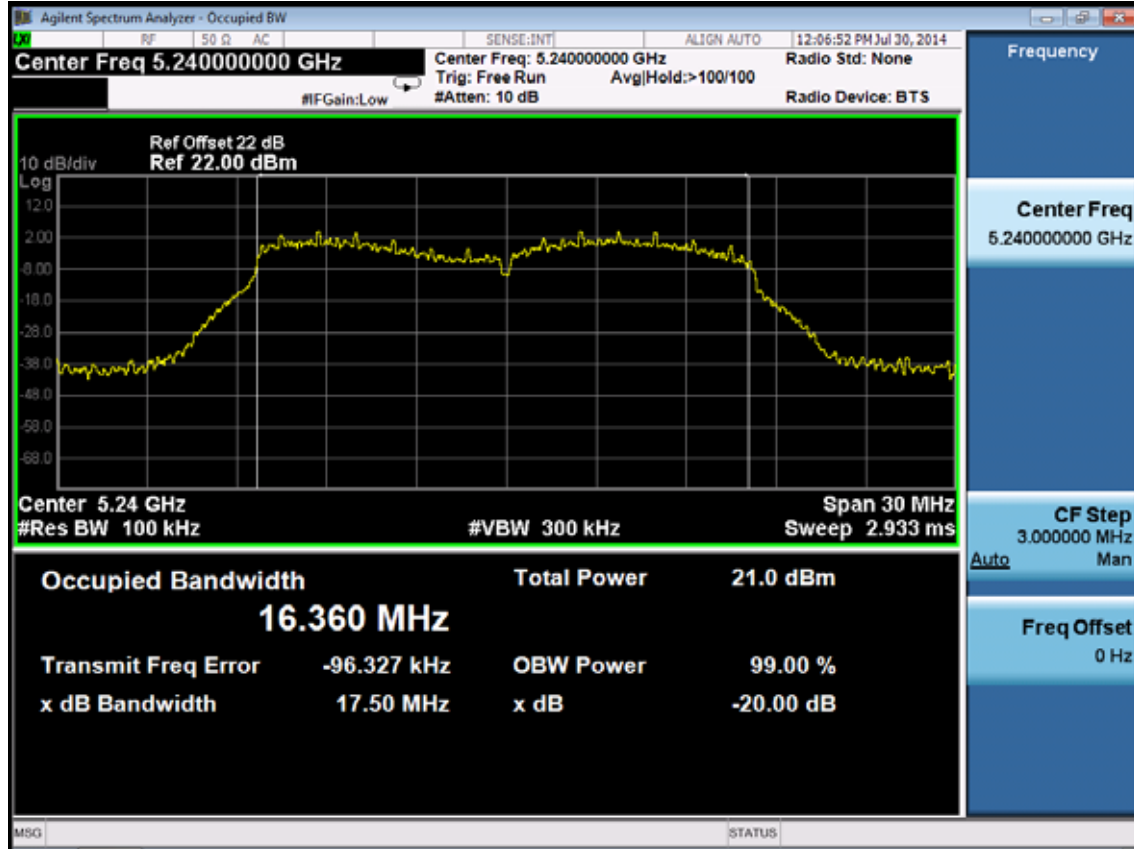
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5200MHz

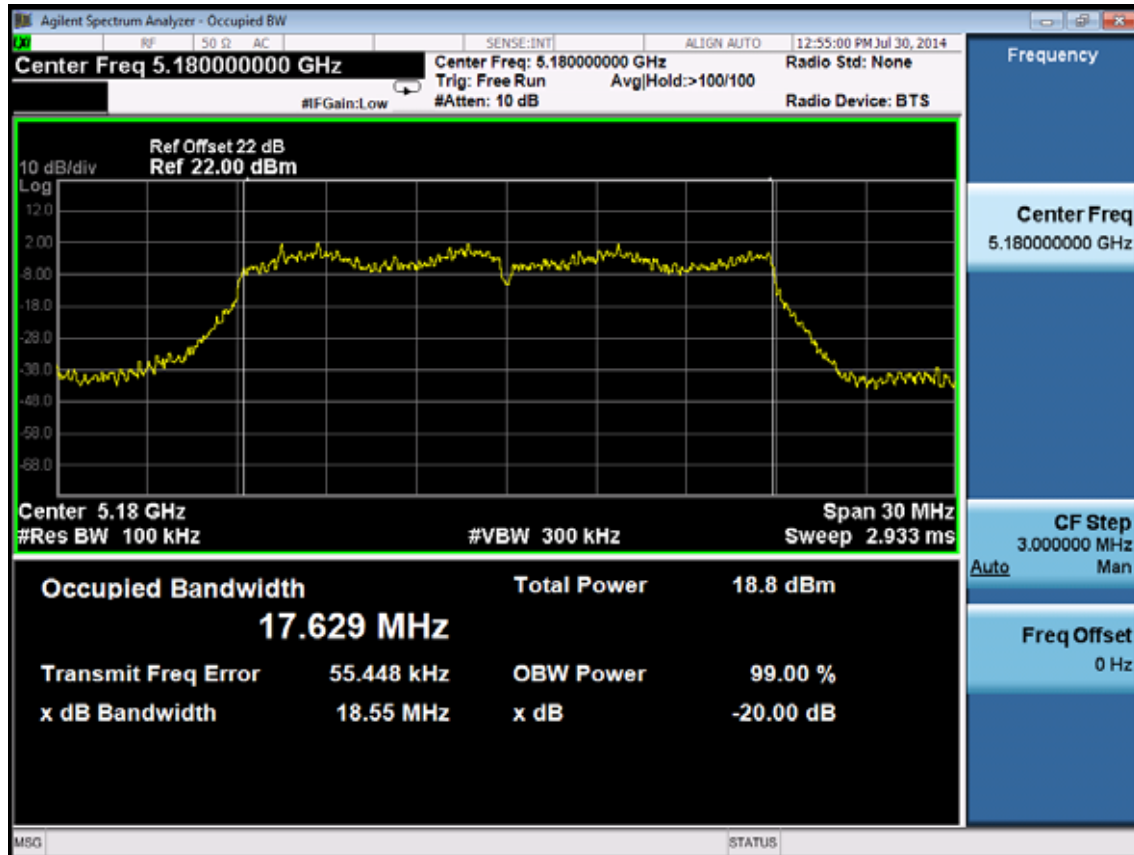


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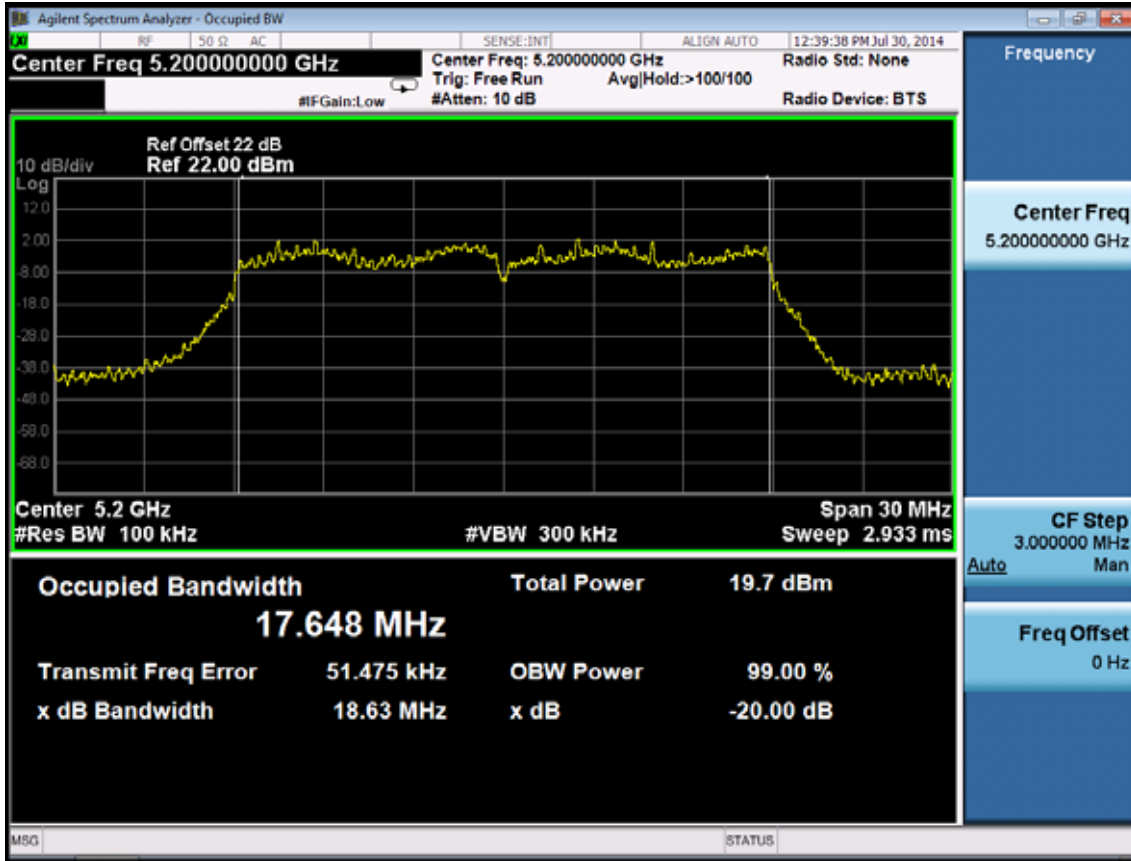


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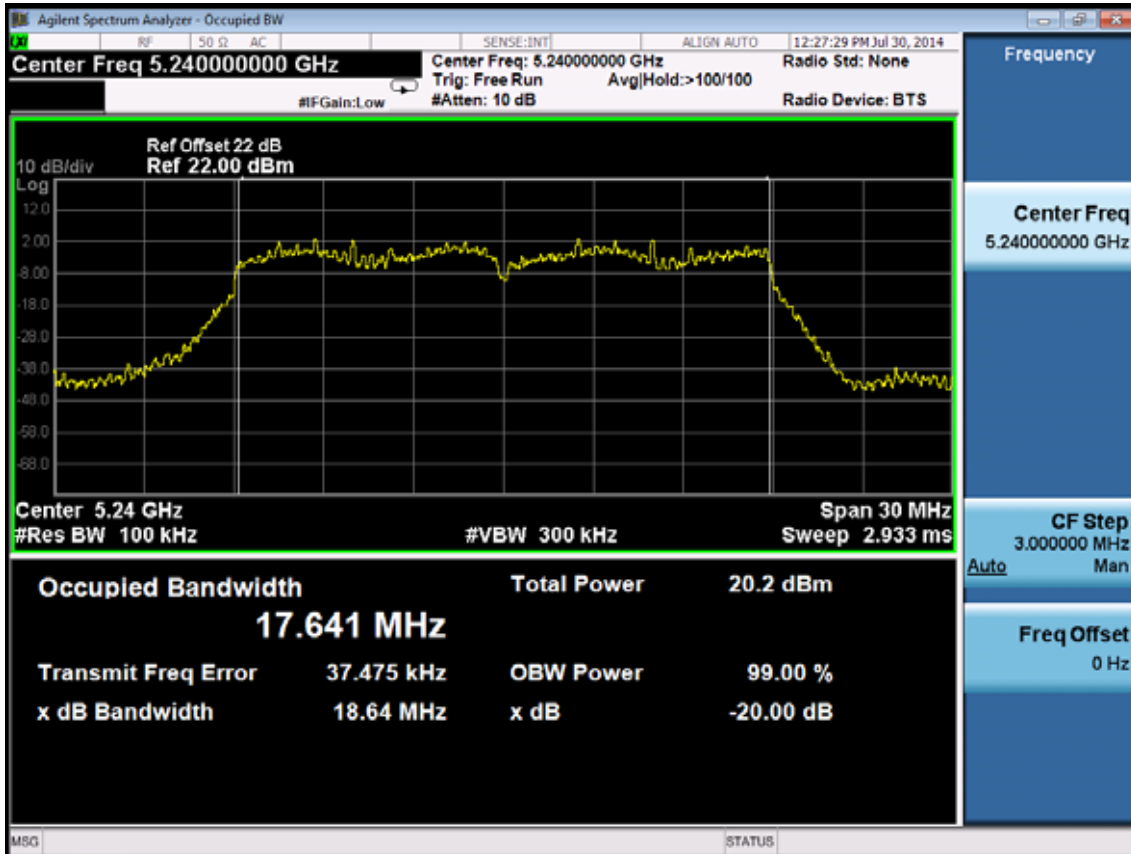
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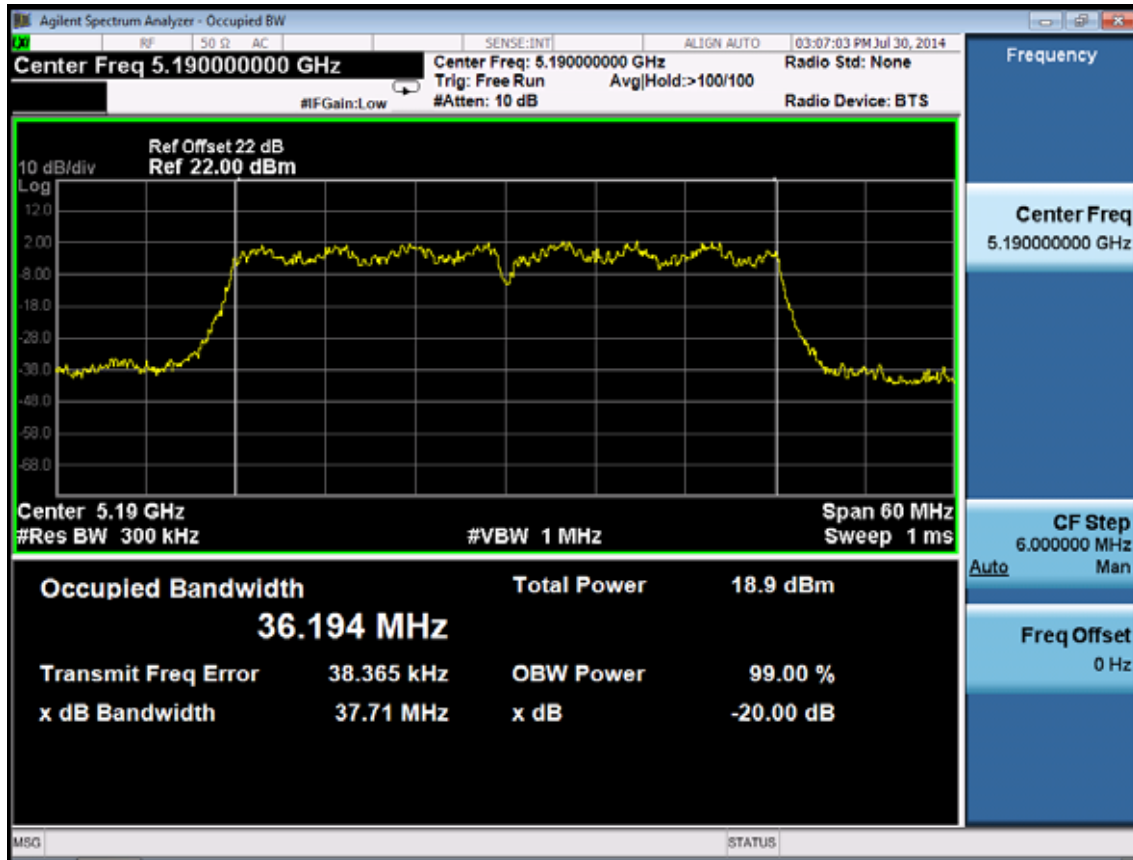
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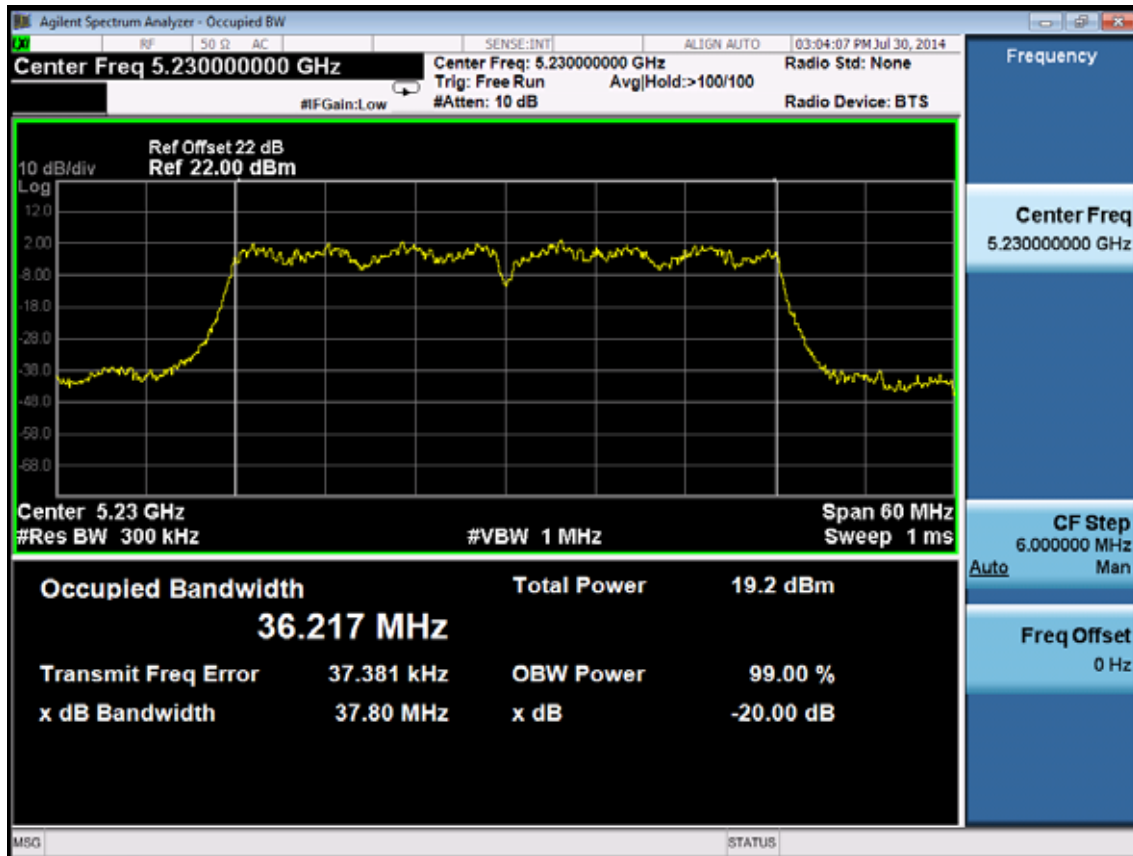
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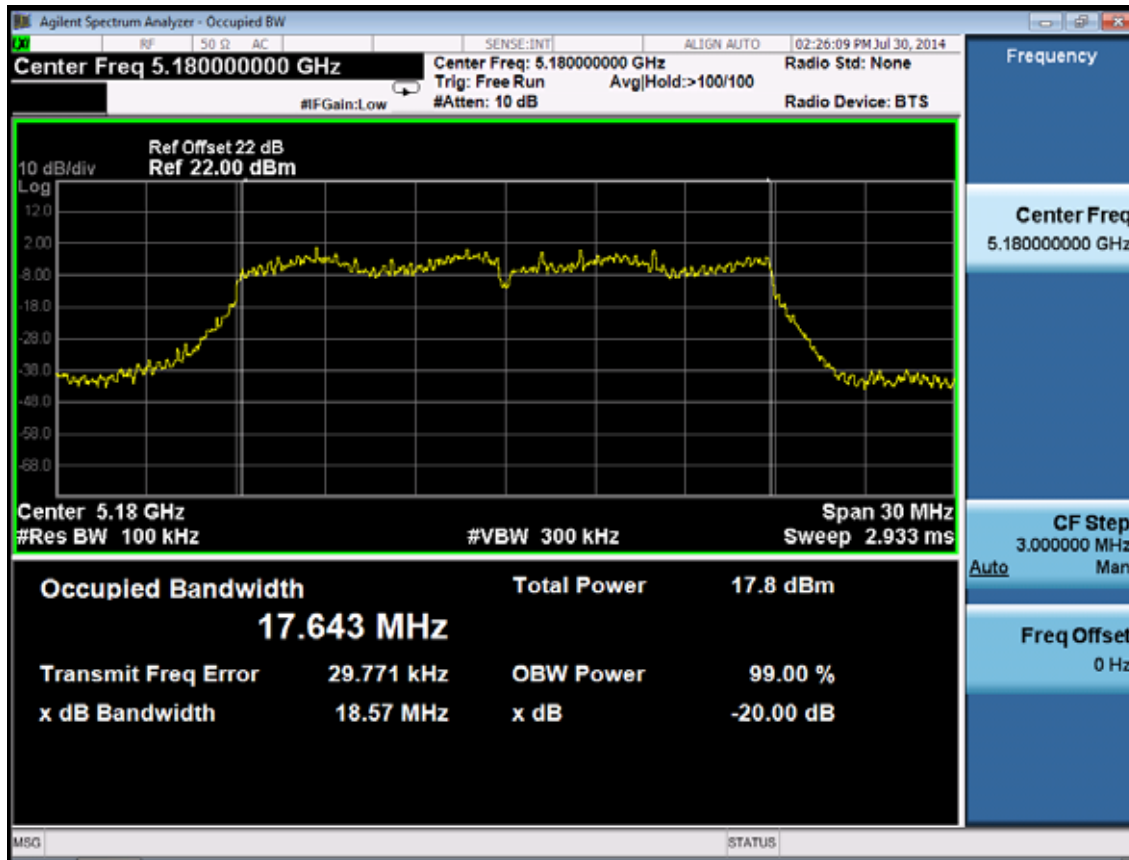
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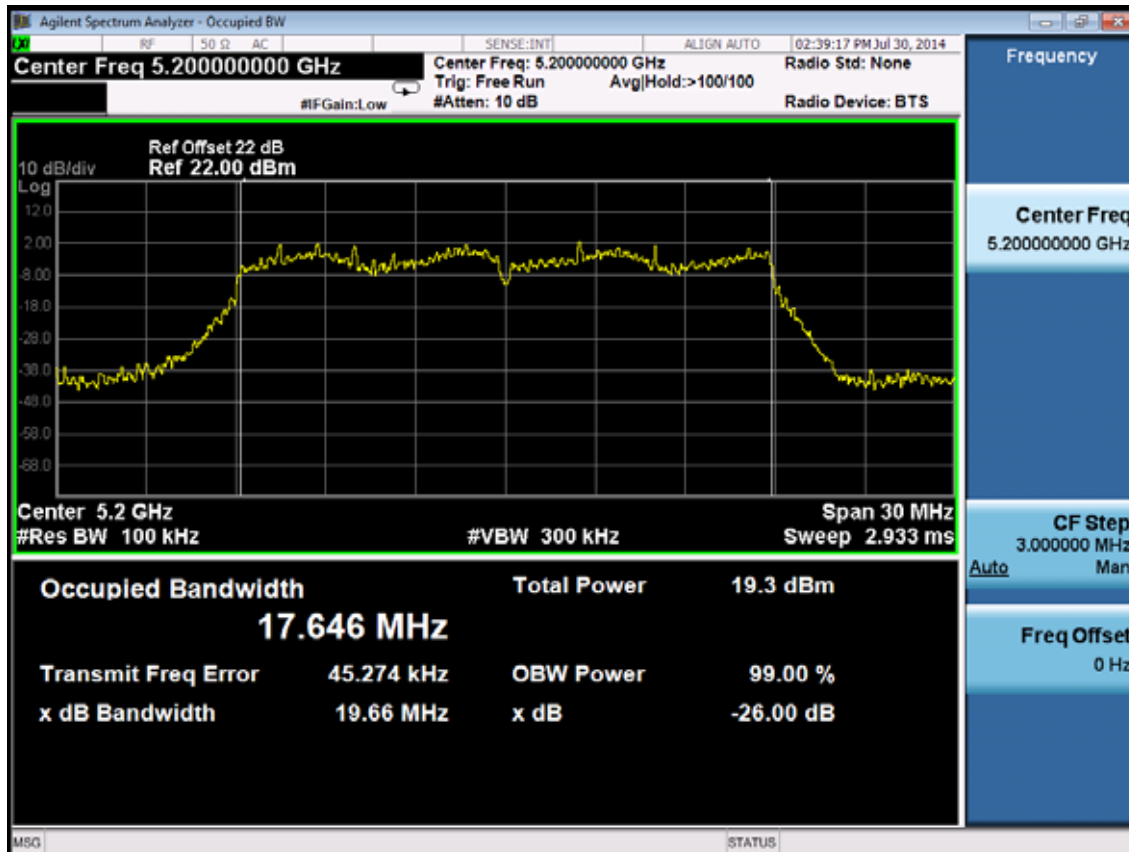
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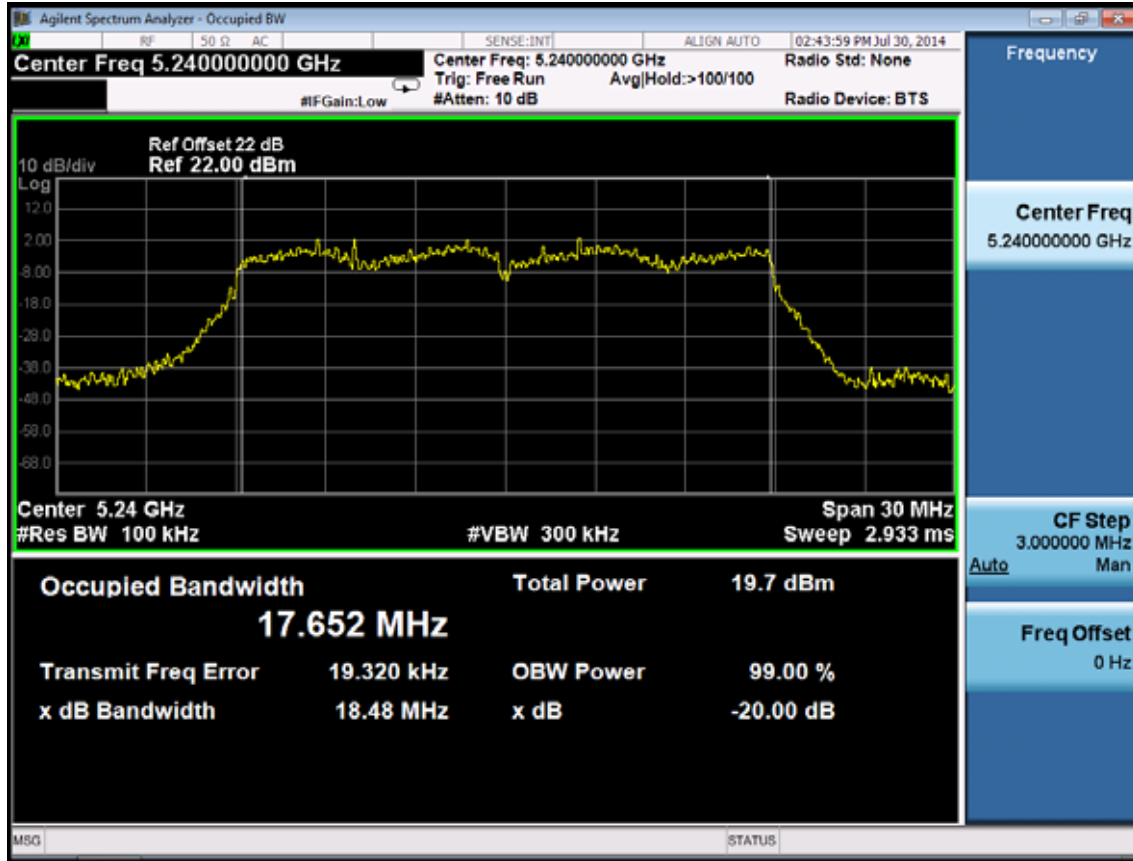
11ac VHT20
5180MHz



5200MHz

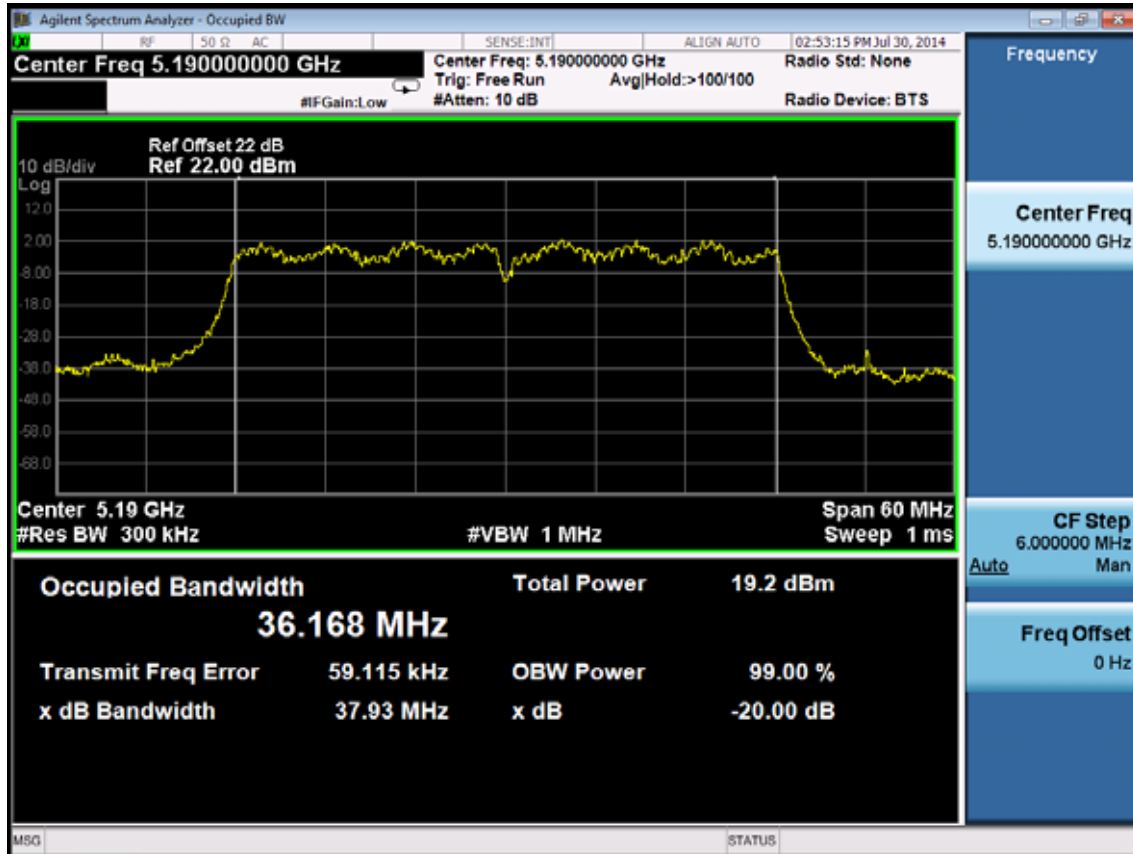


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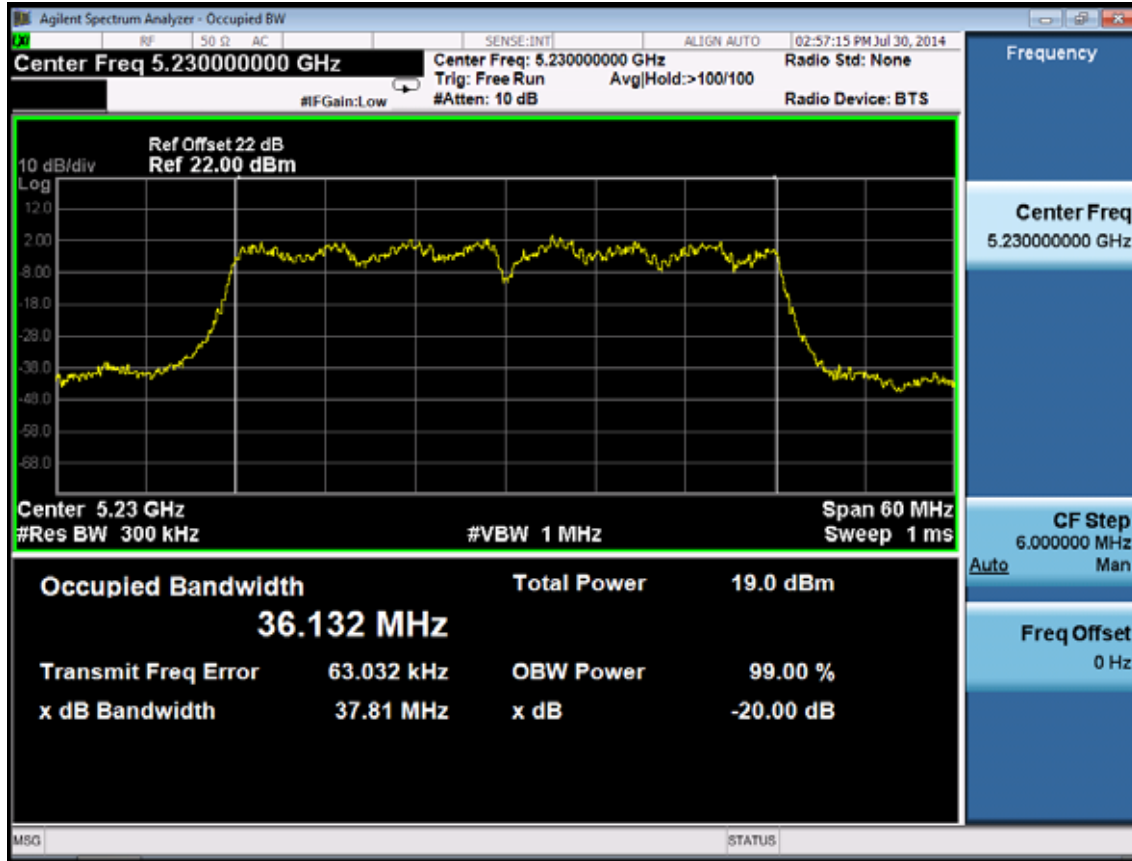


11ac VHT40

5190MHz

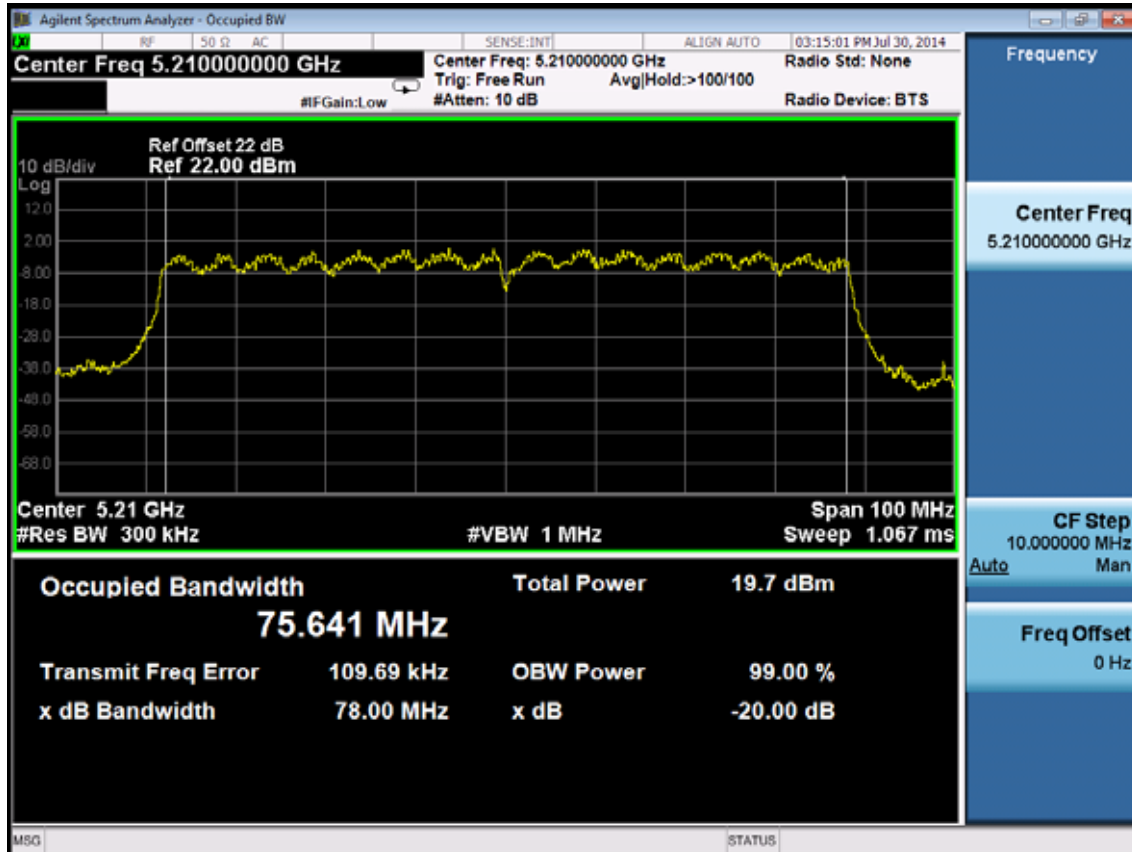


5230MHz



11ac VHT80

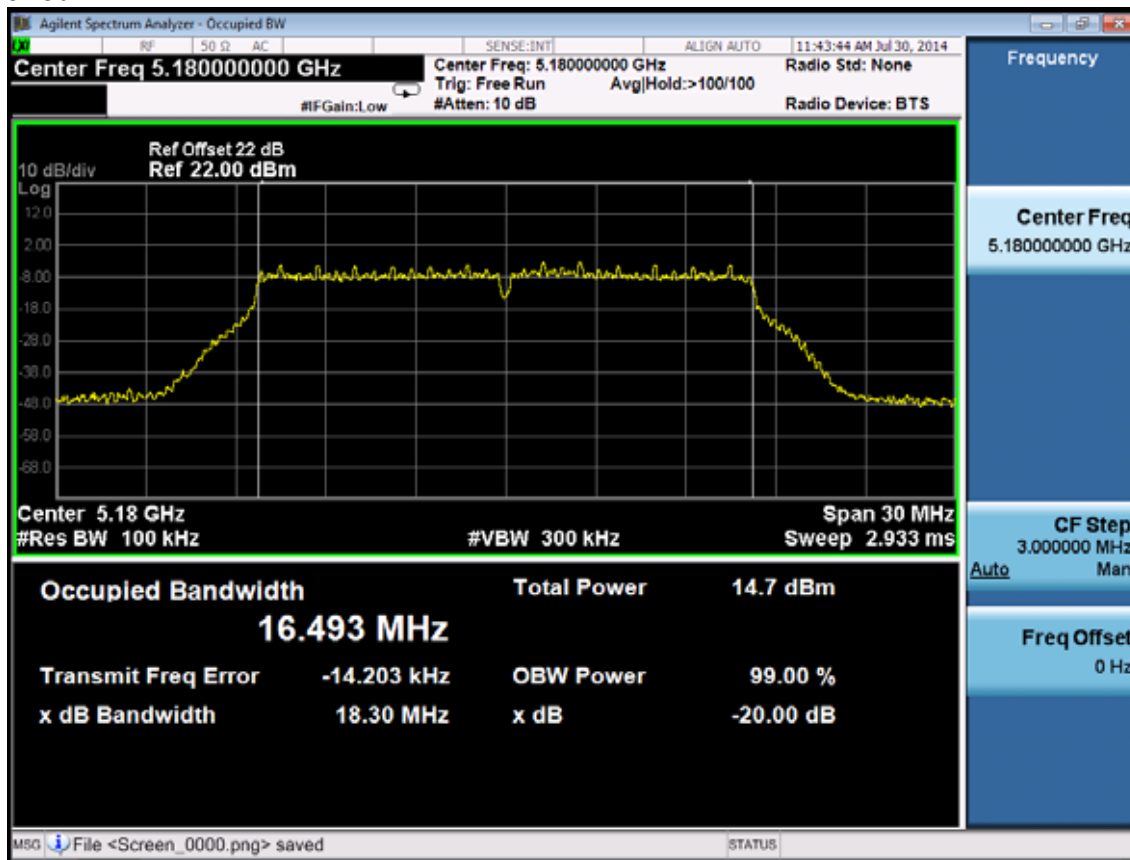
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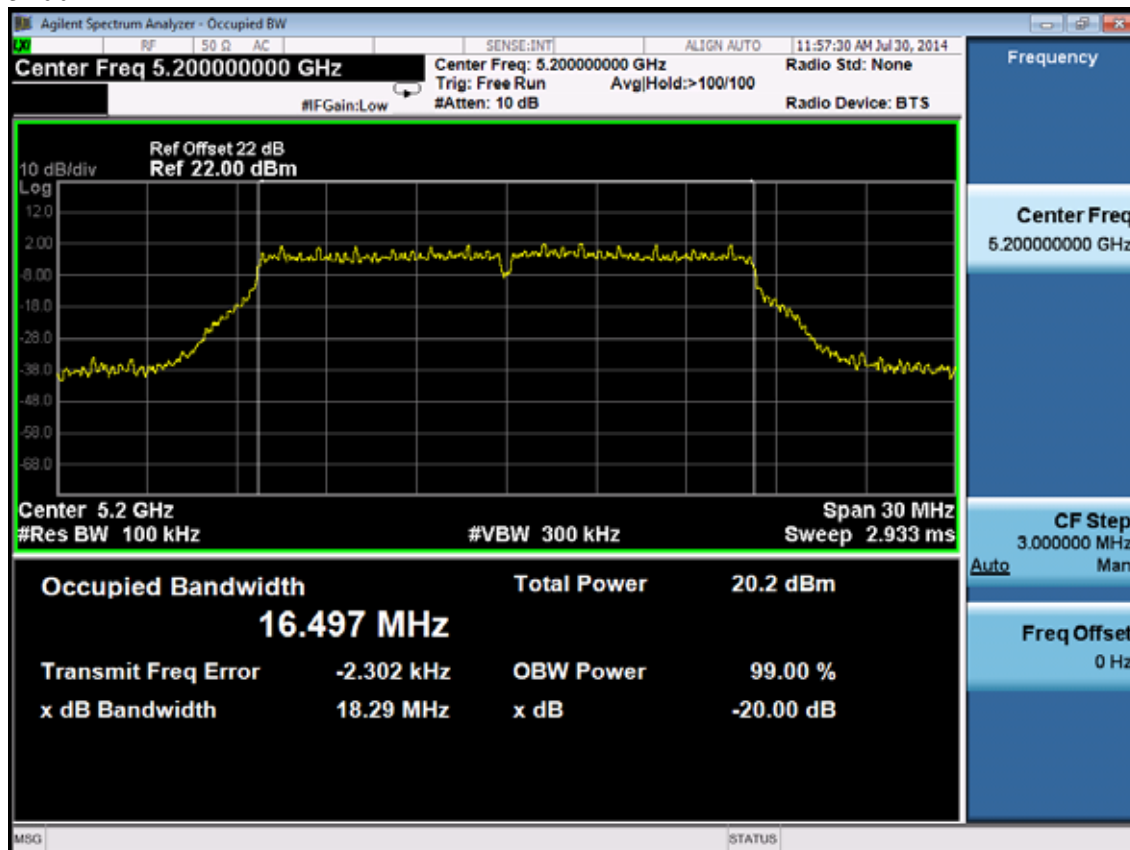
ANT2

11a

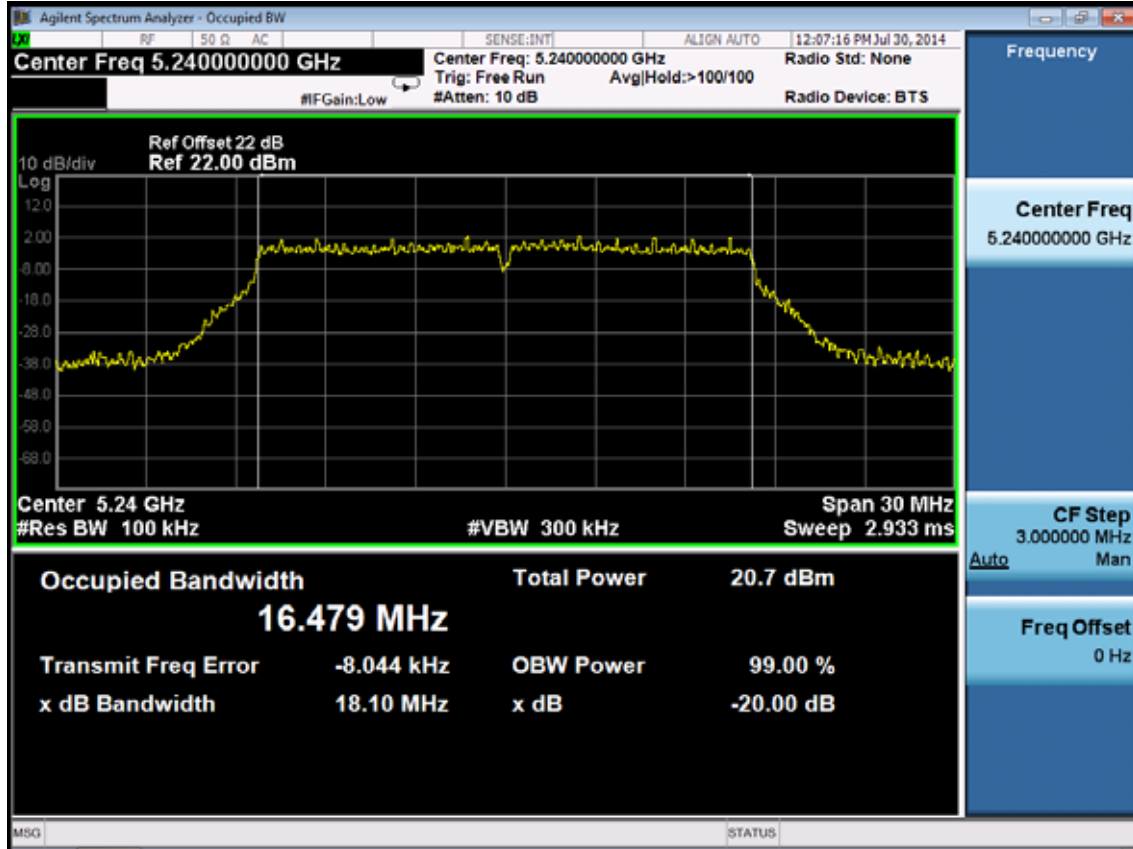
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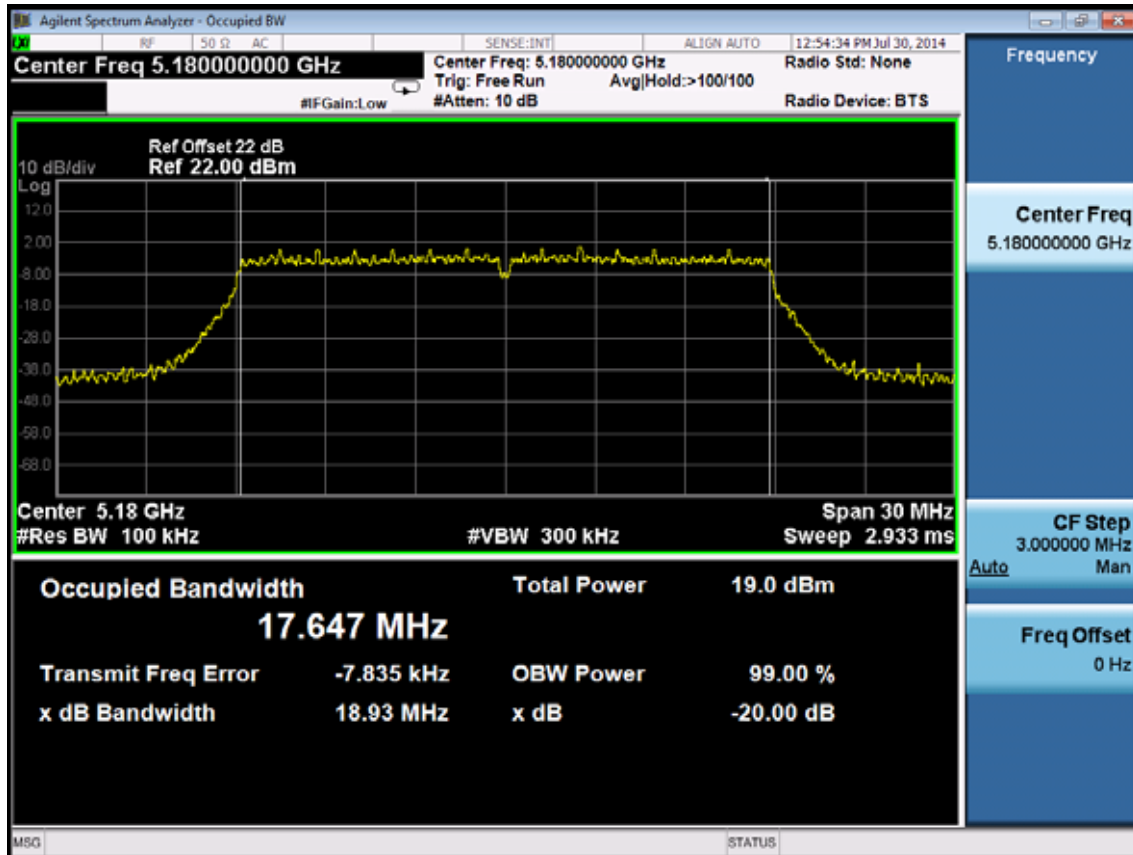


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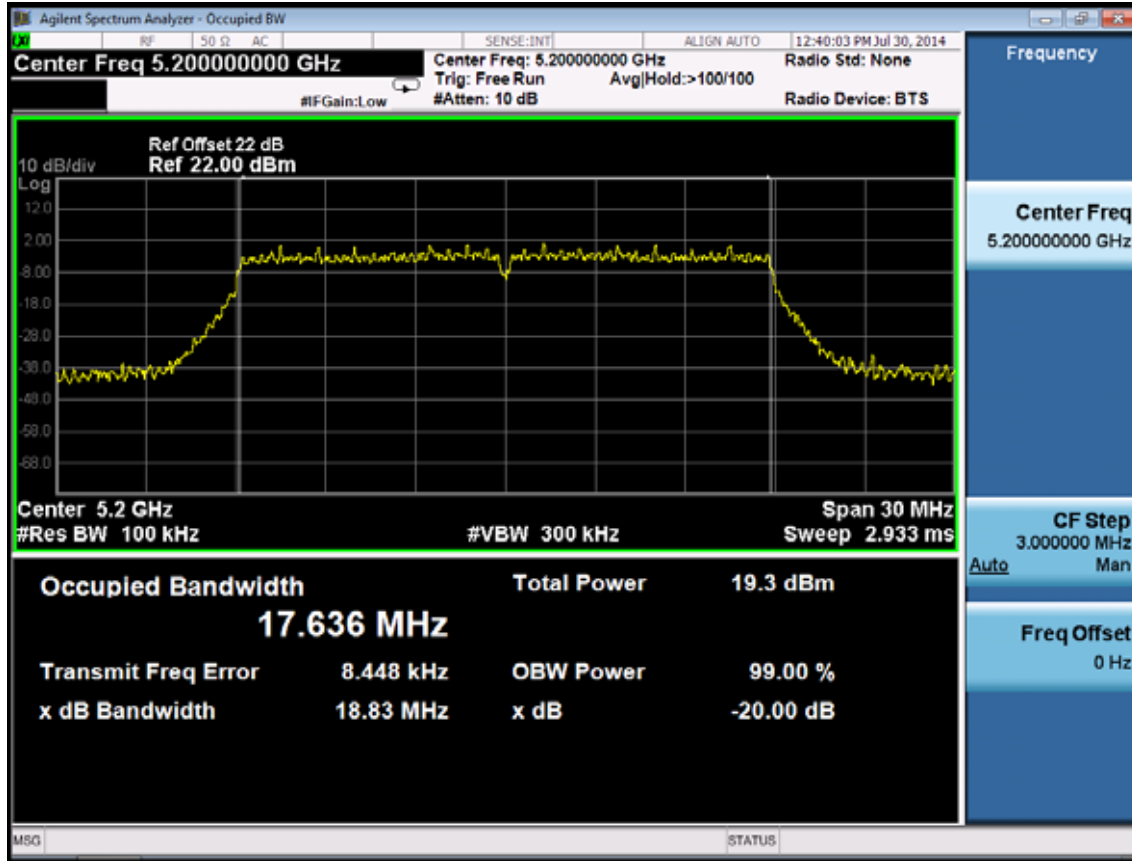


11n HT20

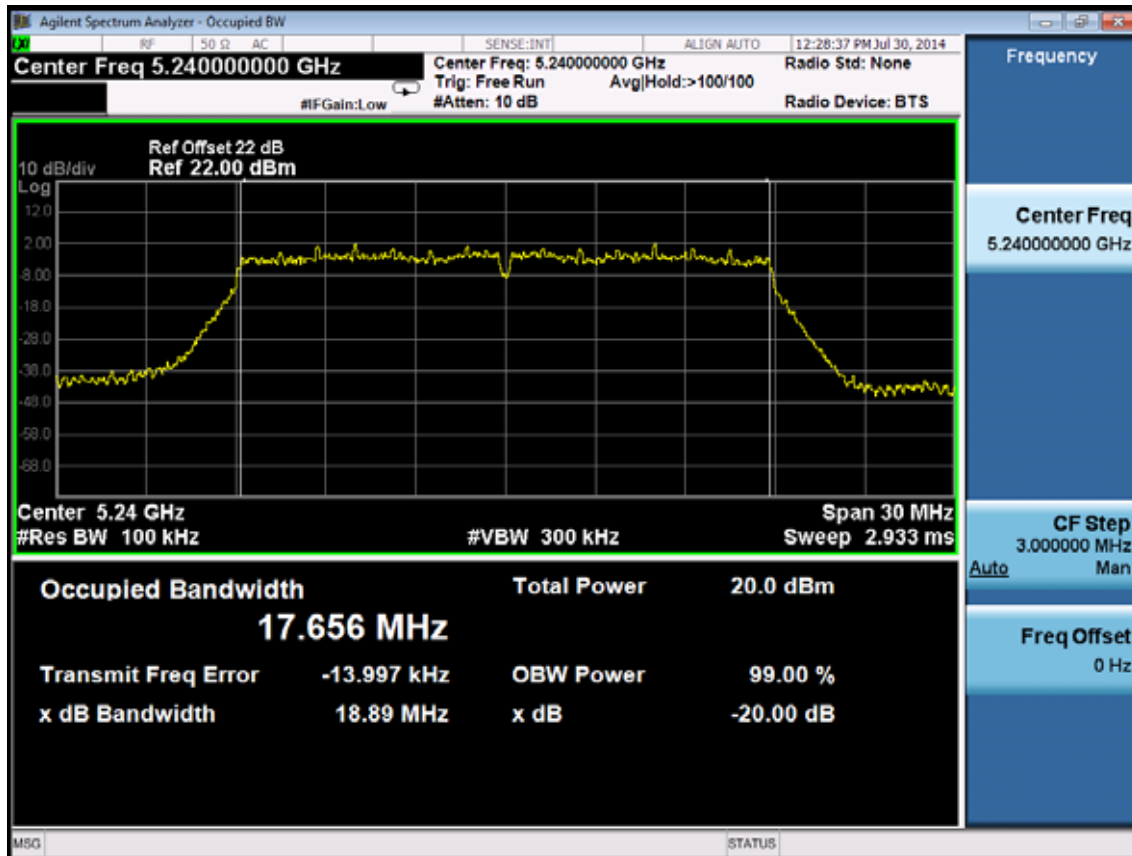
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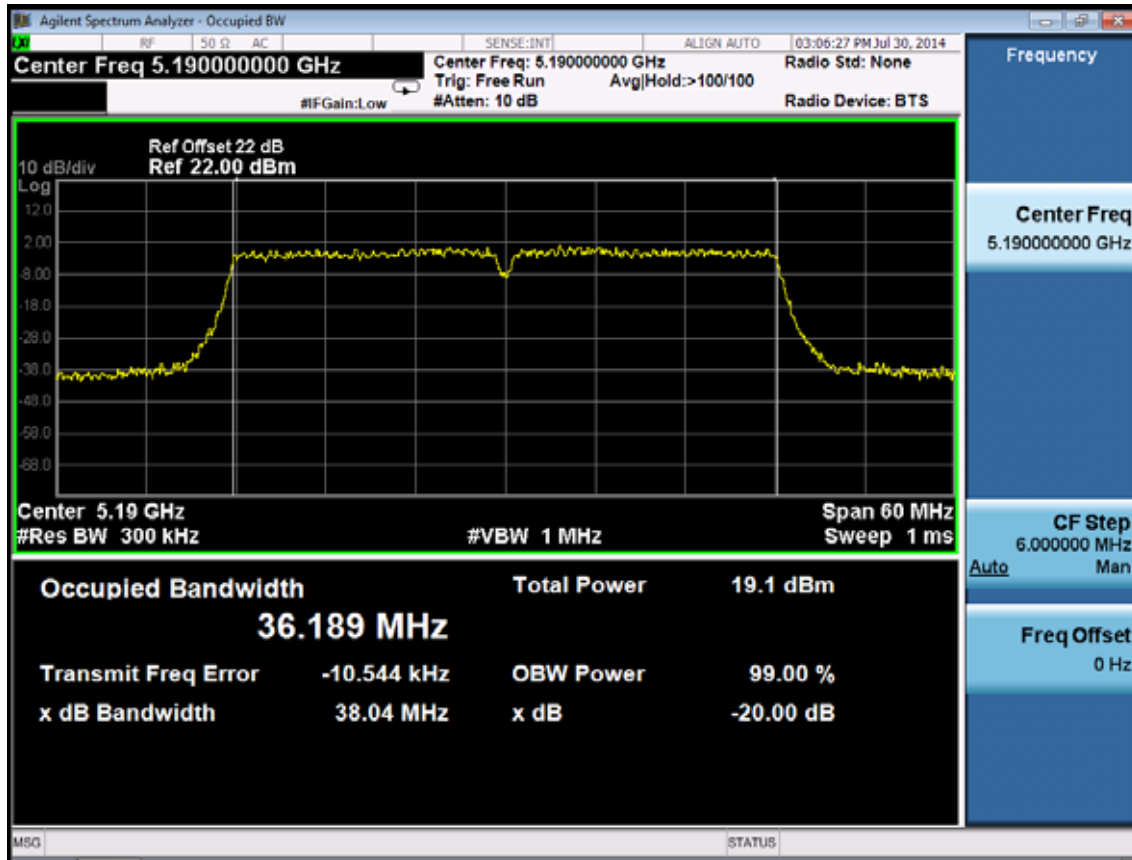
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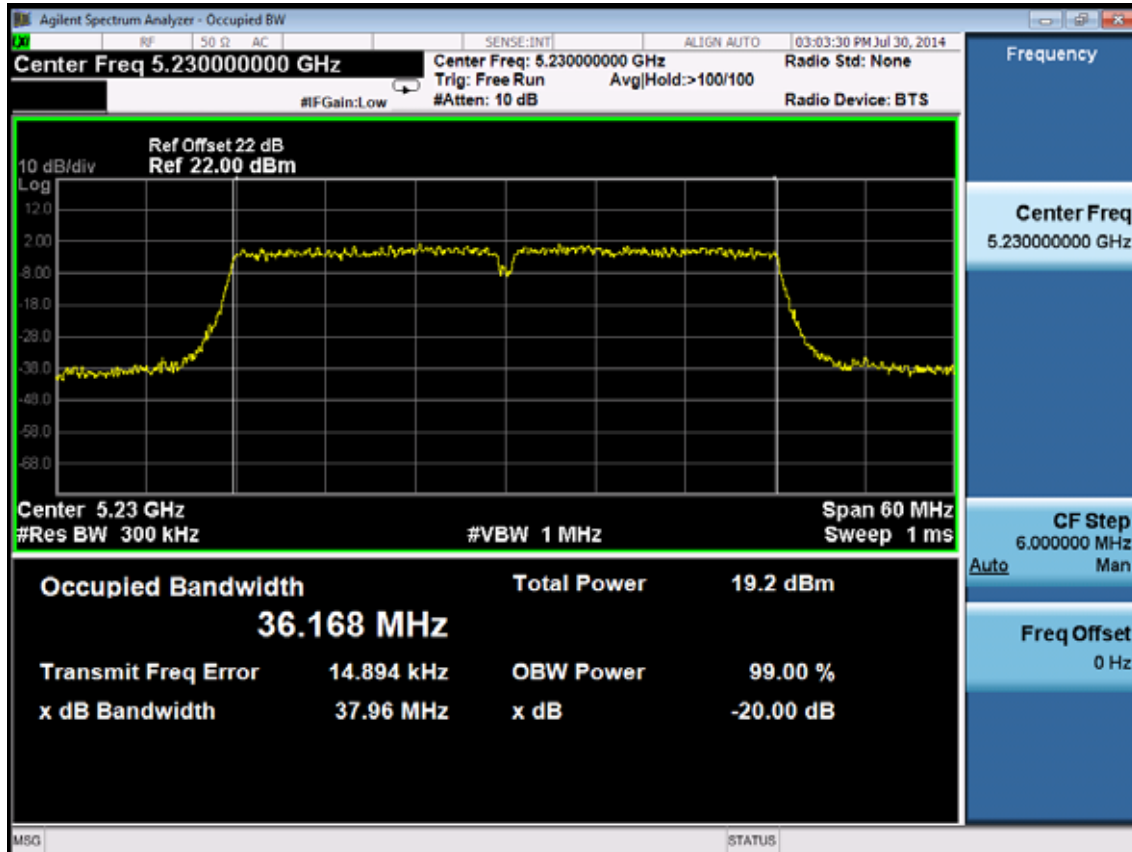
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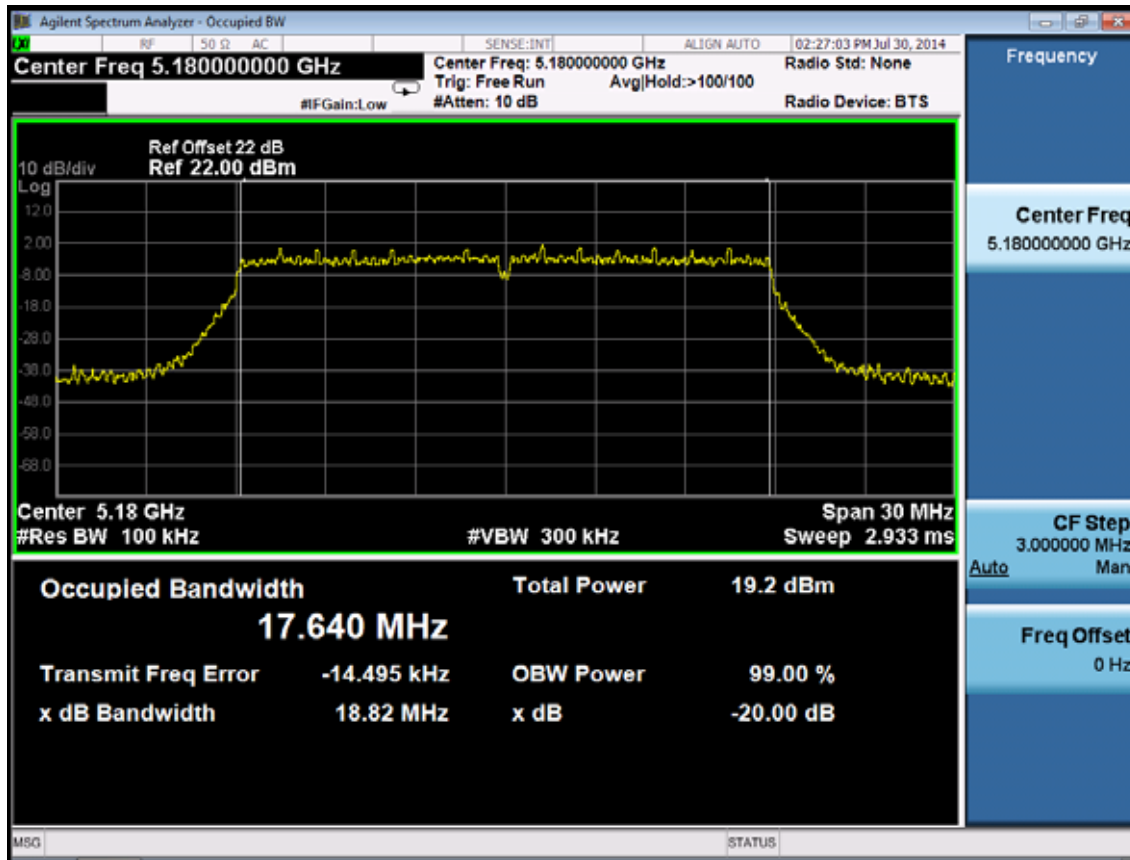
11n HT40
5190MHz



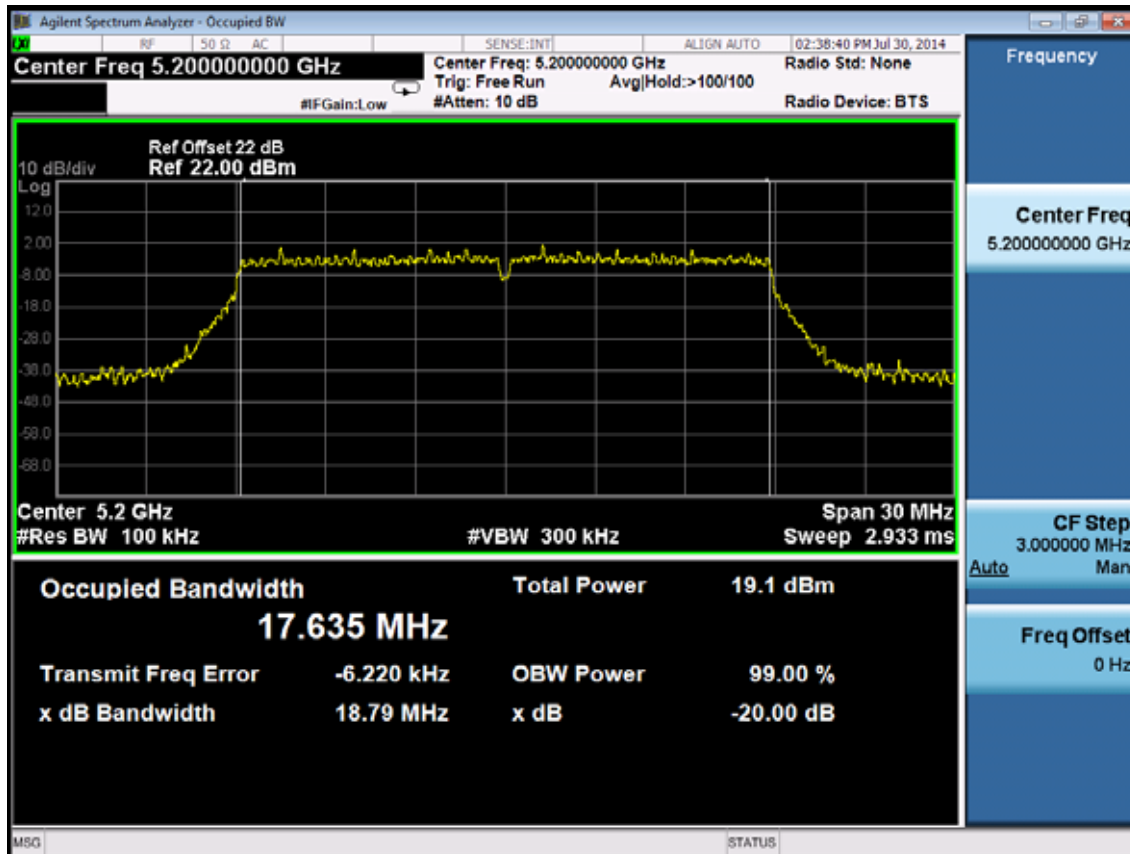
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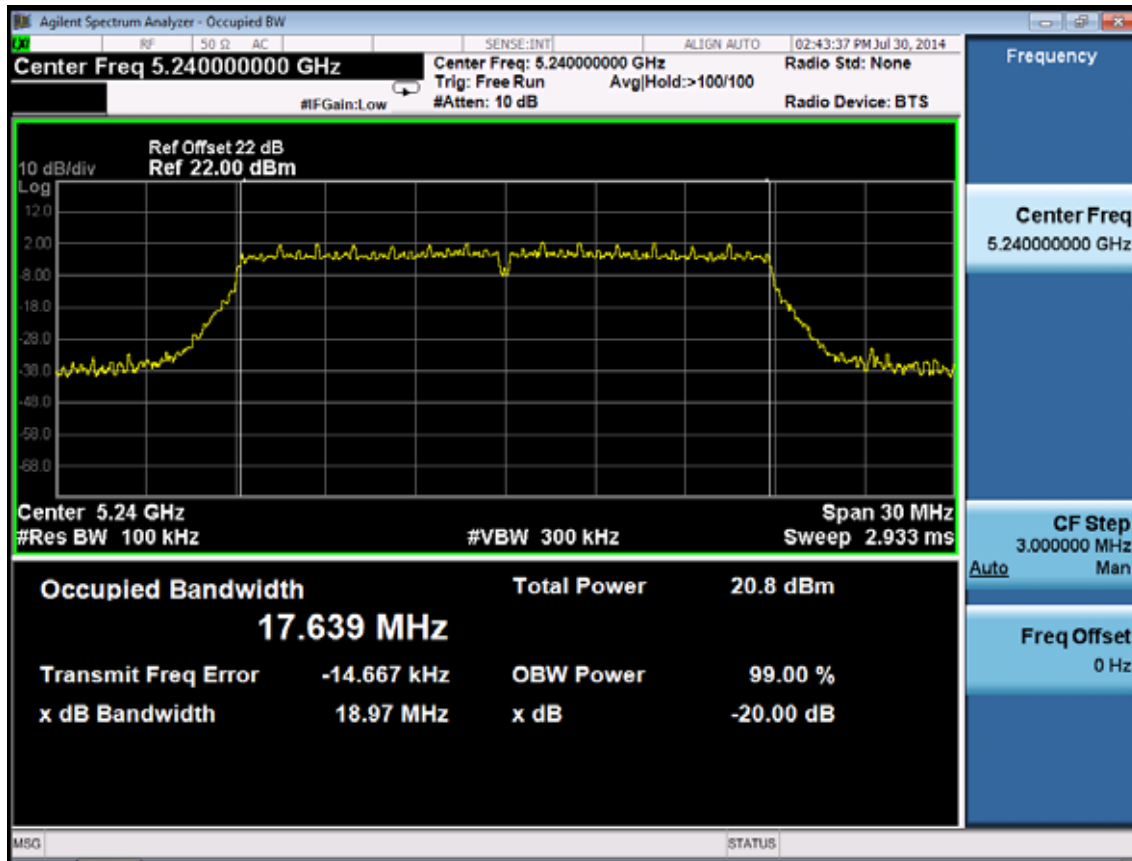
11ac VHT20
5180MHz



5200MHz

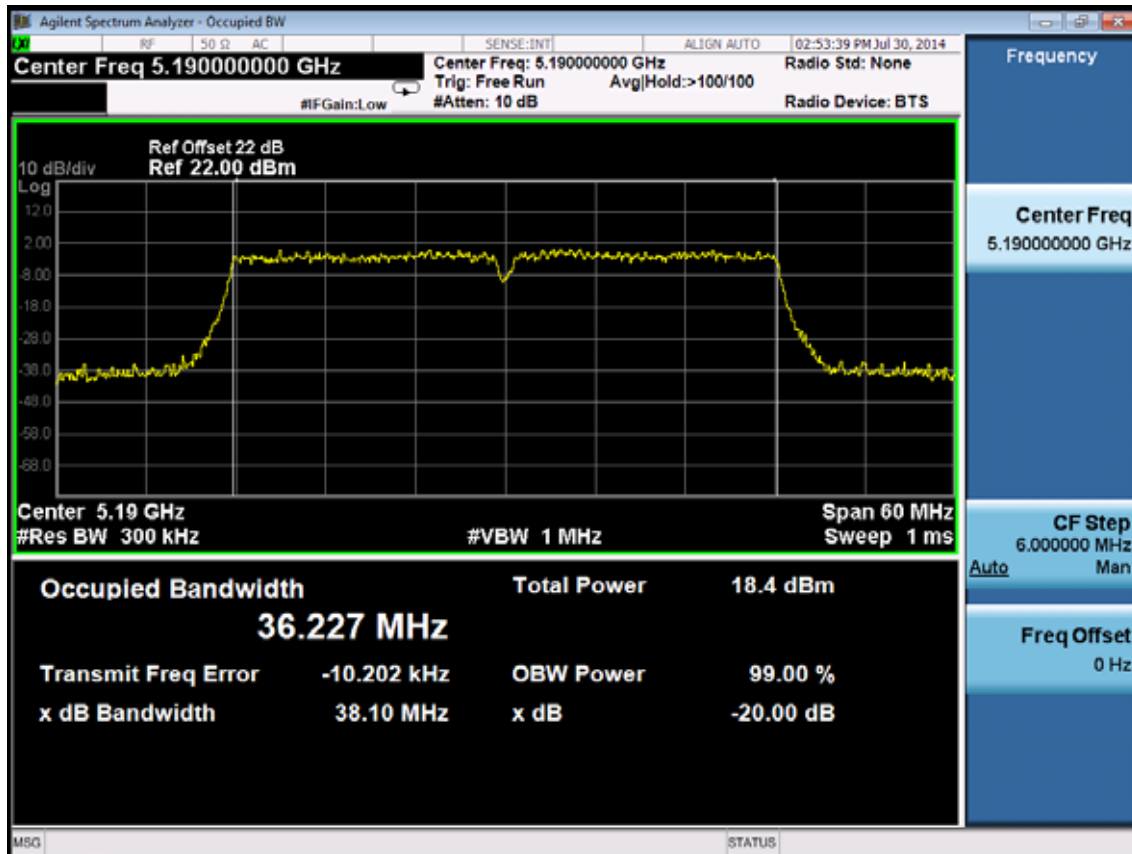


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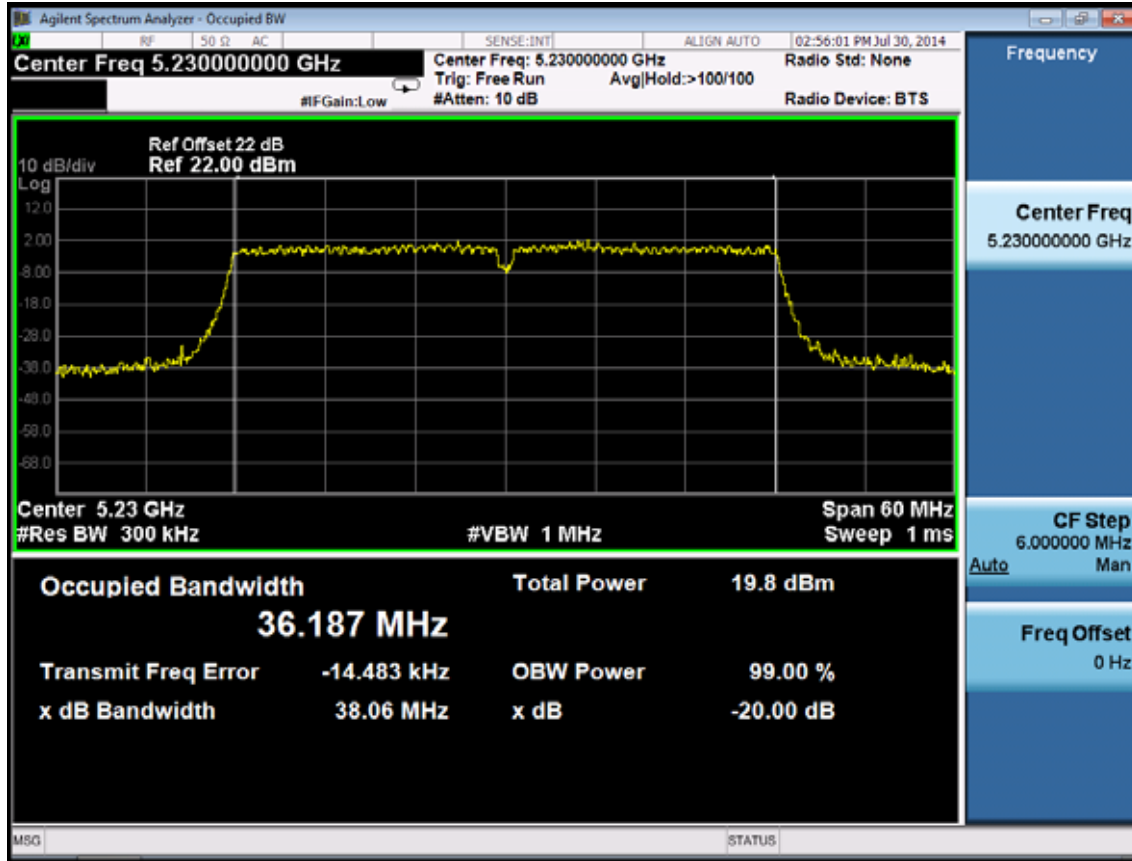


11ac VHT40

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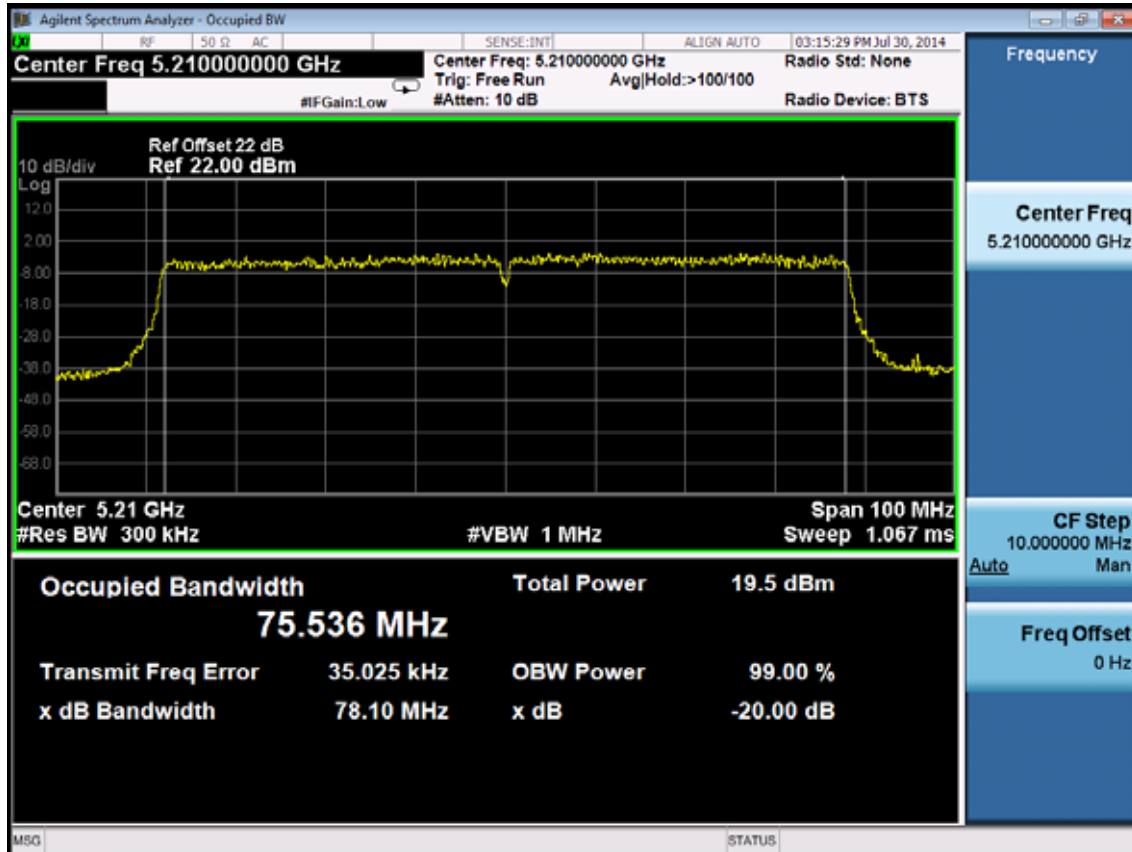


5230MHz



11ac VHT80

5210MHz

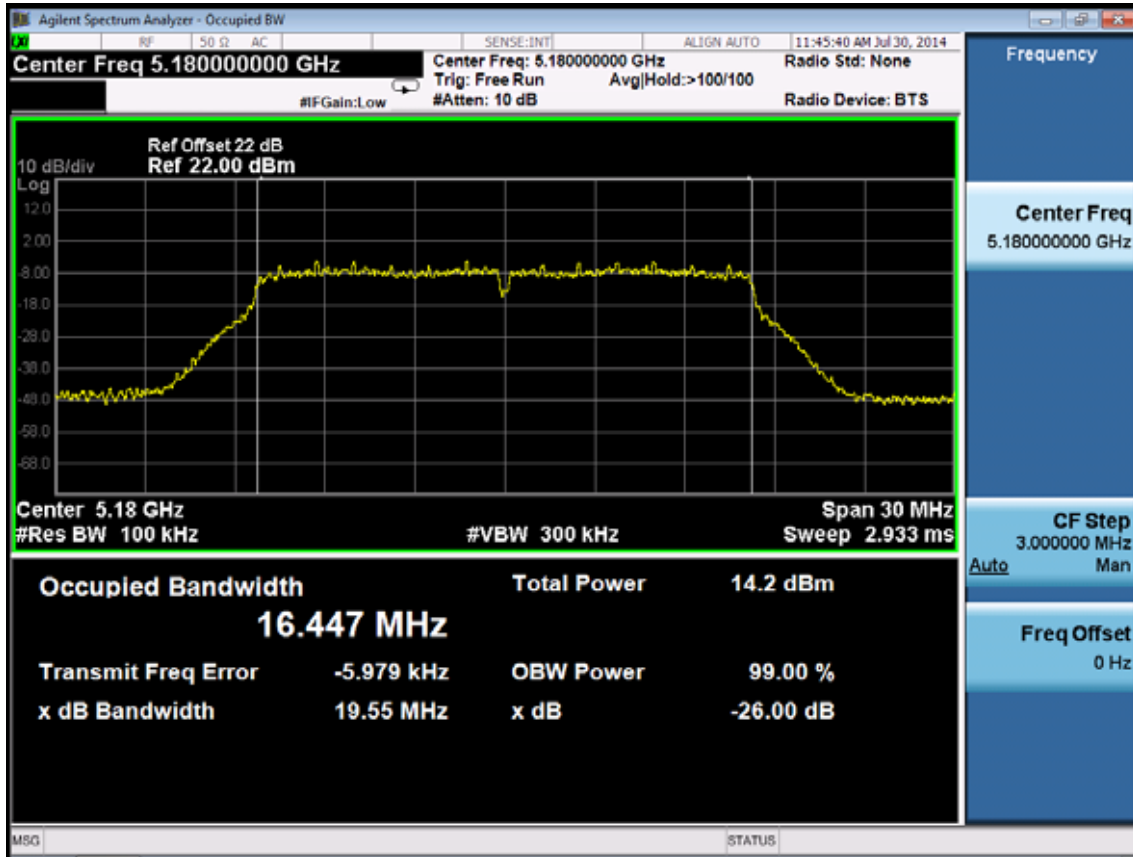


26dB bandwidth:

ANT0

11a

5180MHz



5200MHz

