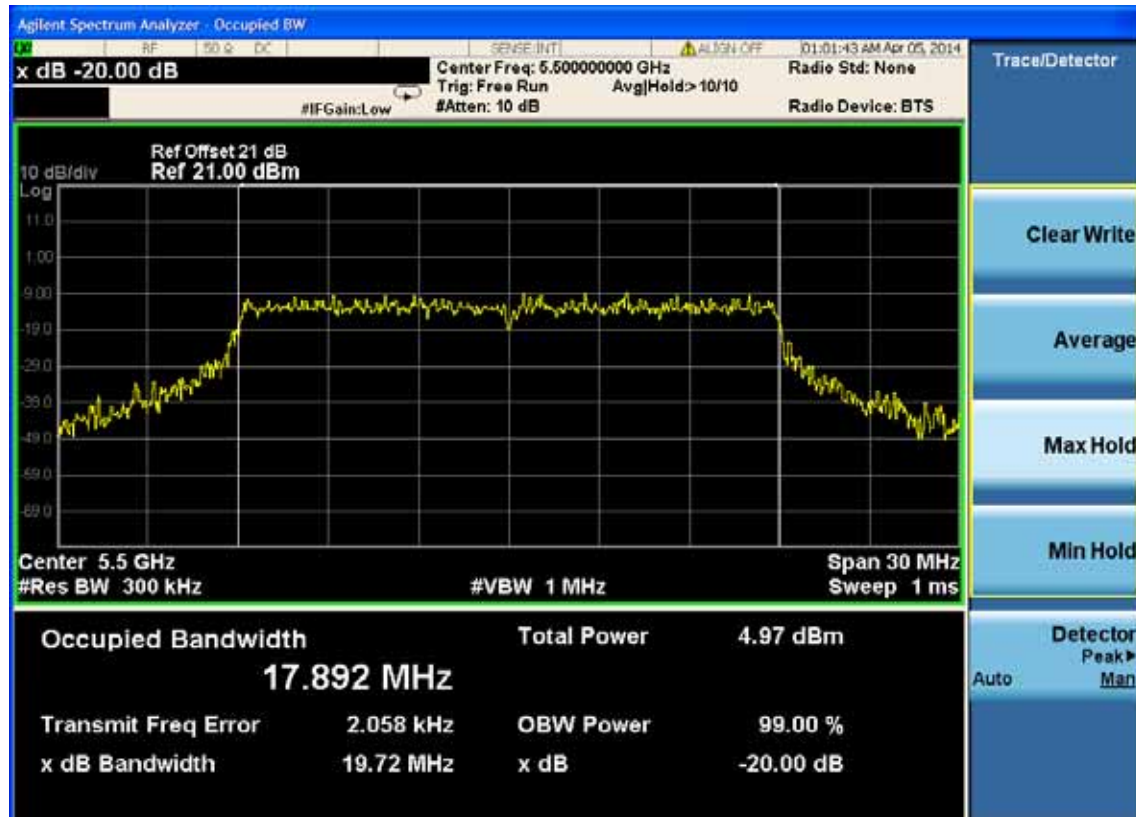
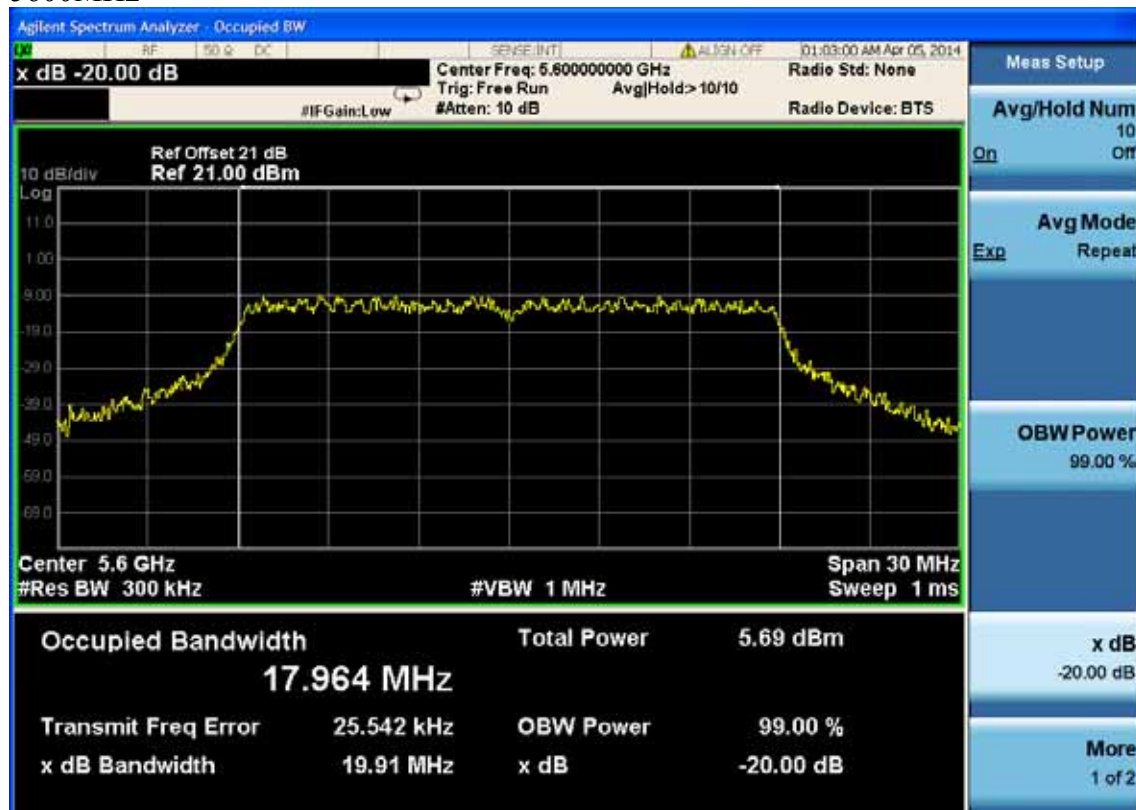


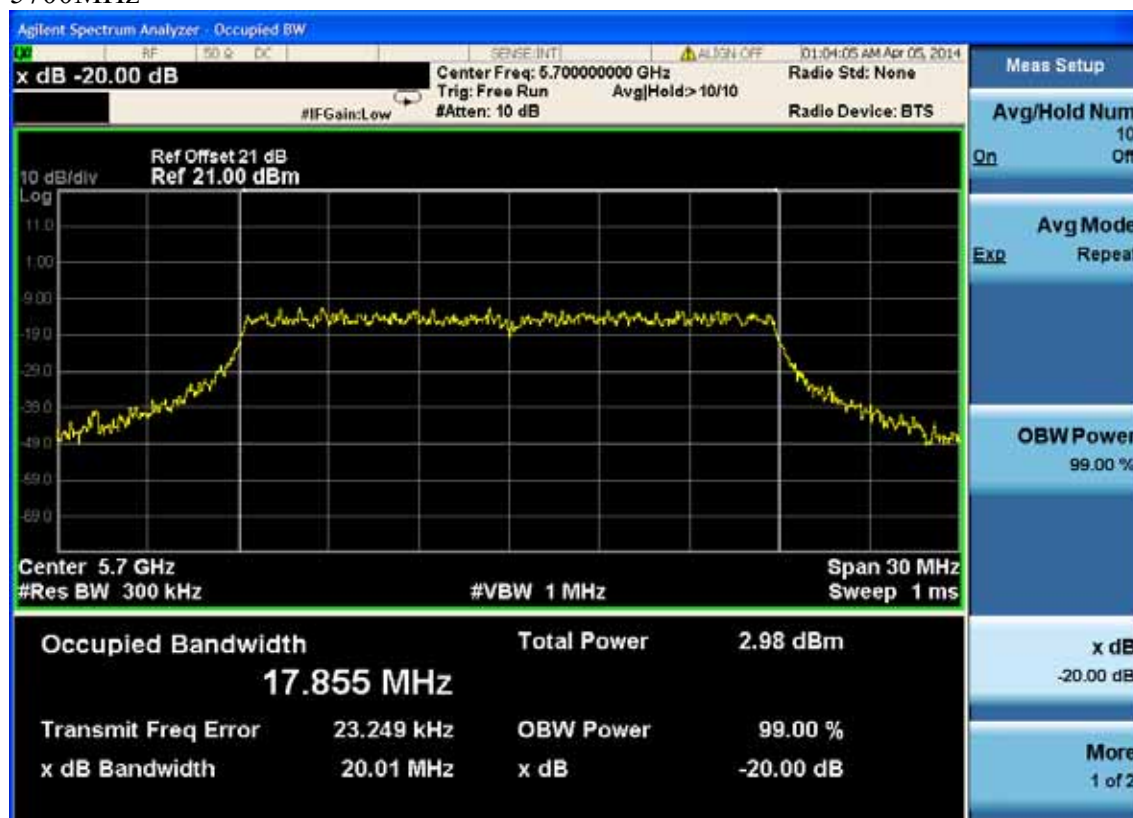
IEEE802.11nHT20 5500MHz



5600MHz

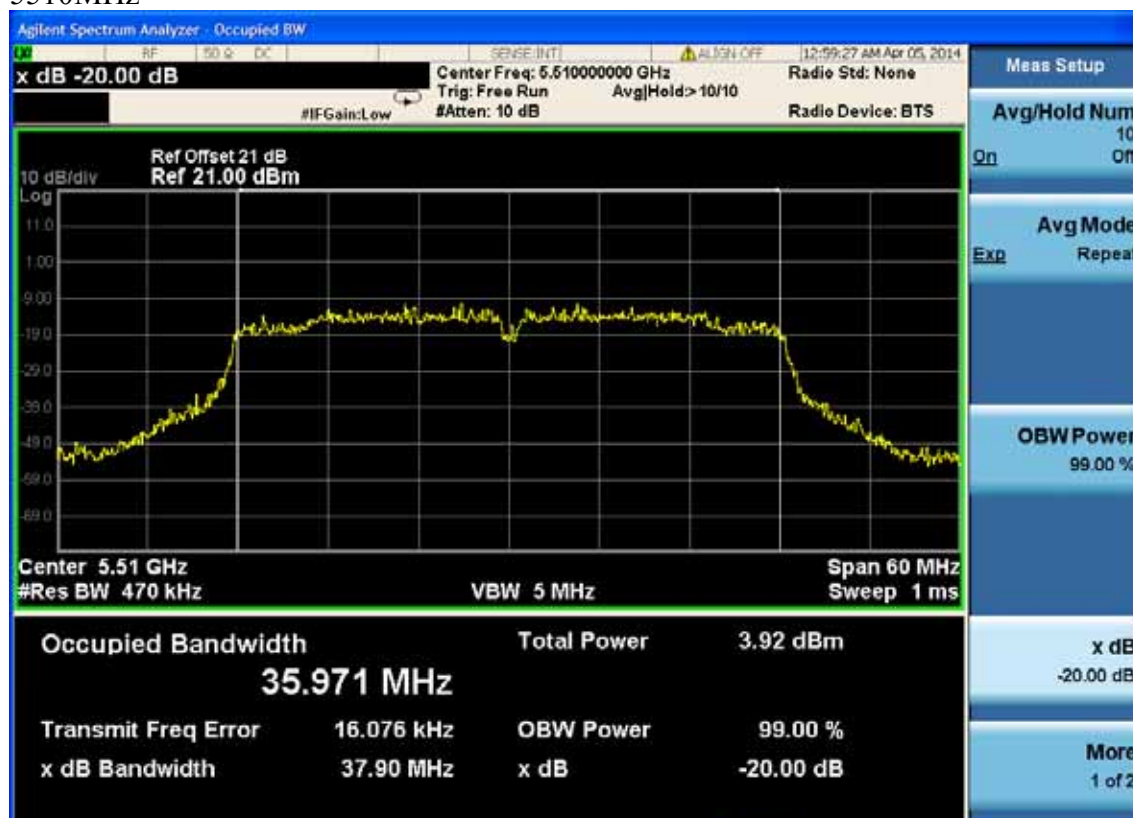


5700MHz



IEEE802.11nHT40

5510MHz



5670MHz

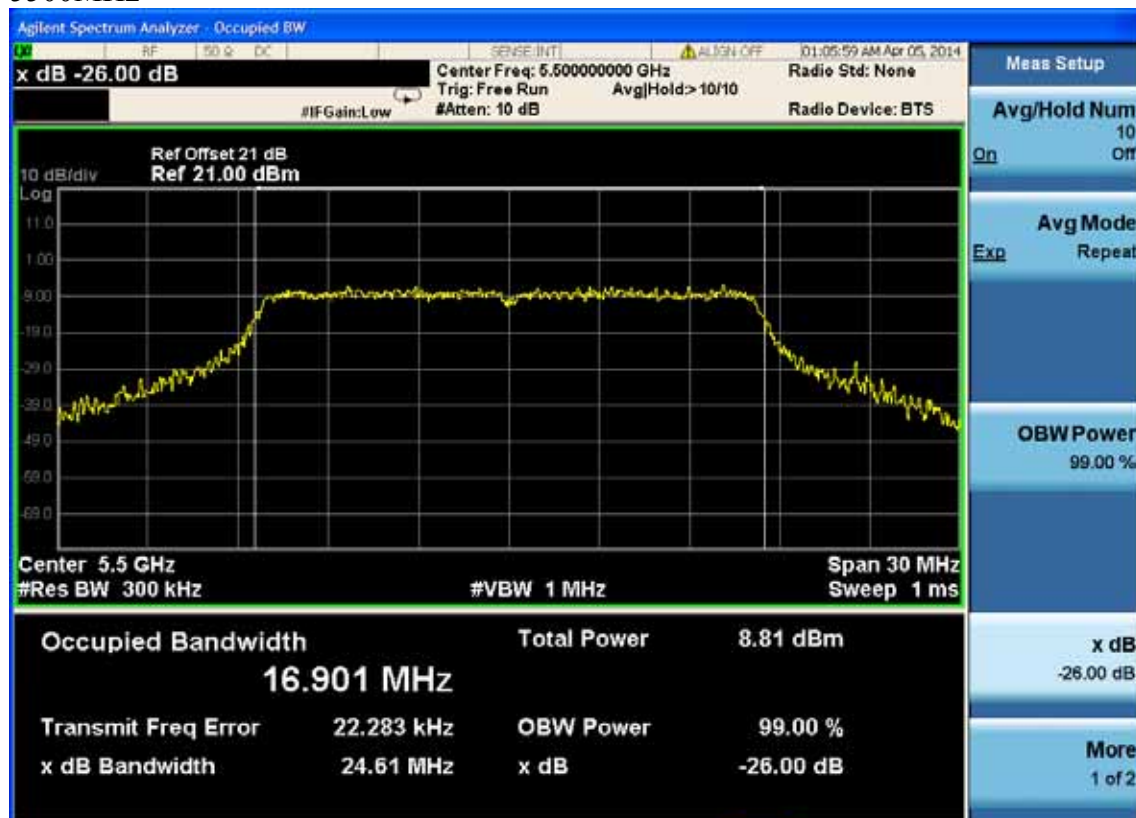


Band 3: (5470-5725MHz)

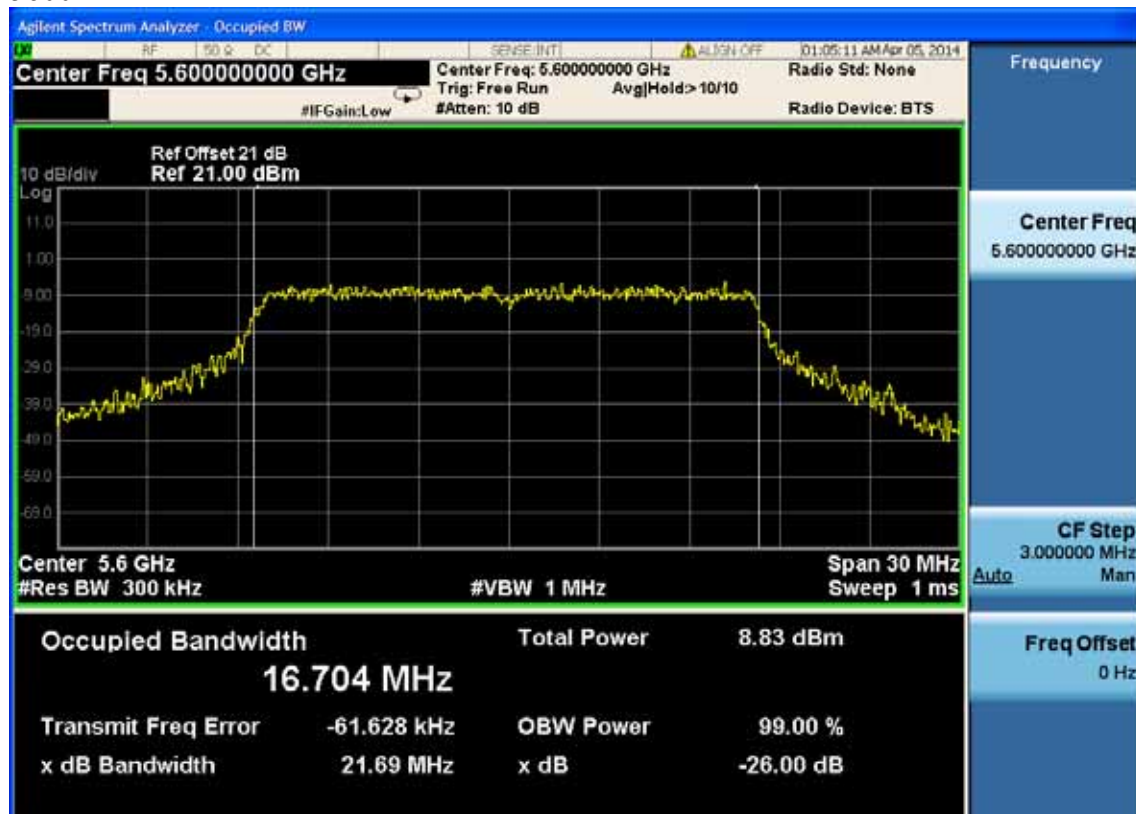
26dB bandwidth:

IEEE802.11a

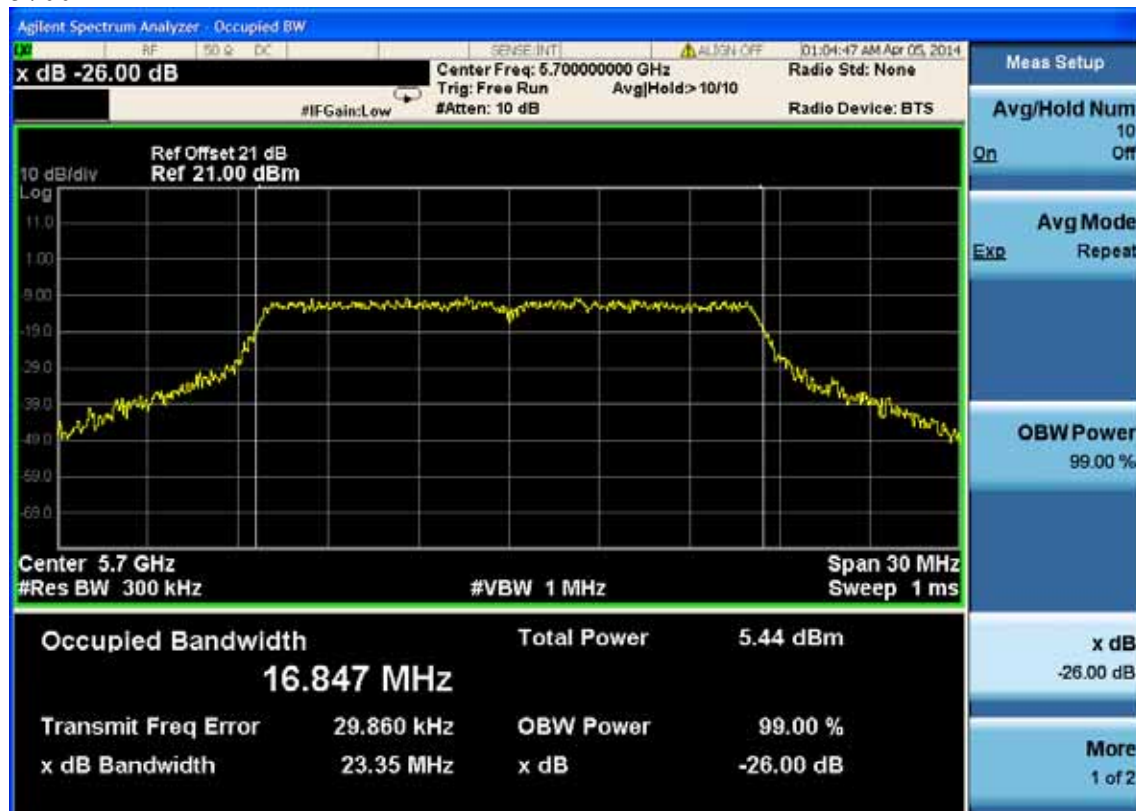
5500MHz



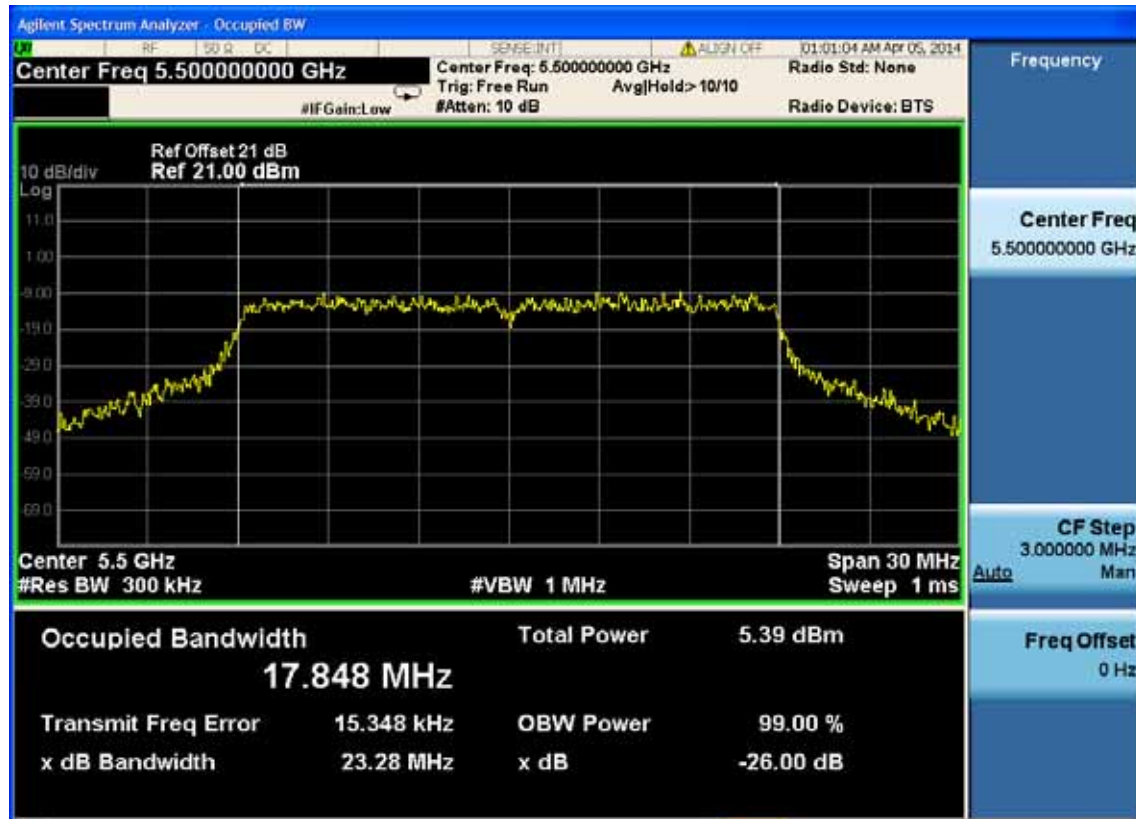
5600MHz



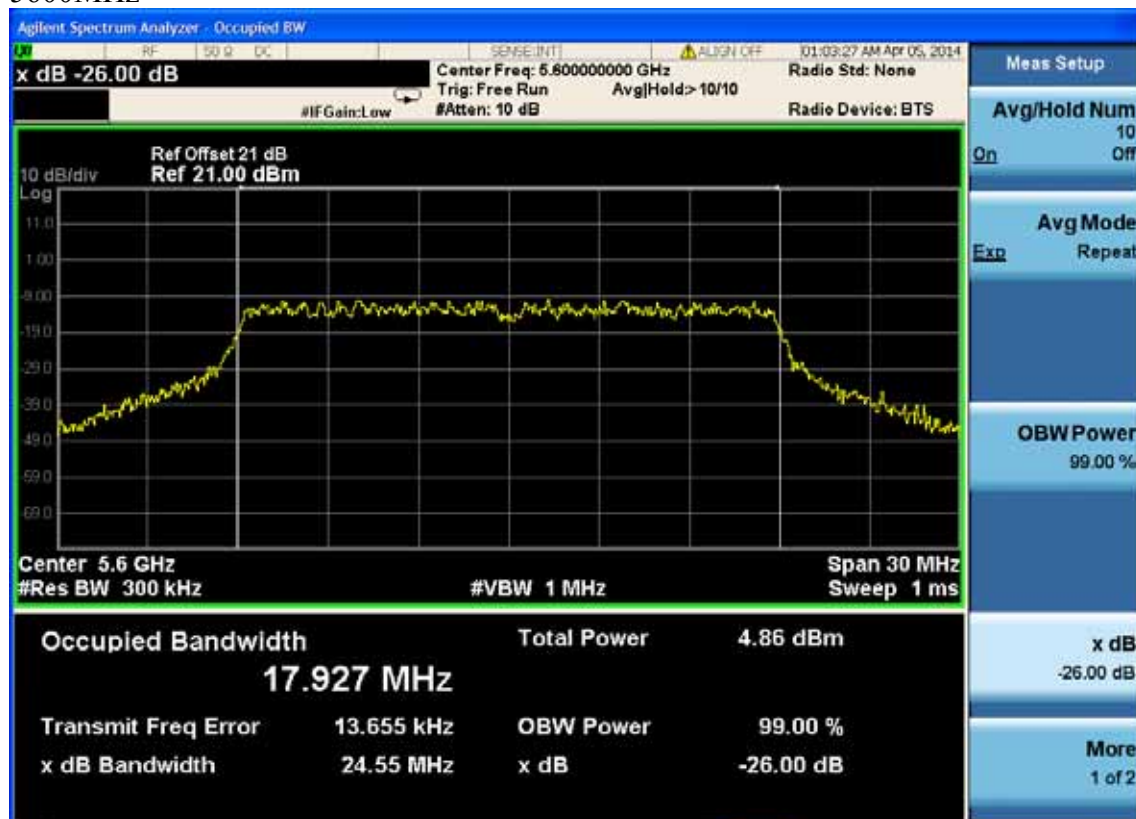
5700MHz



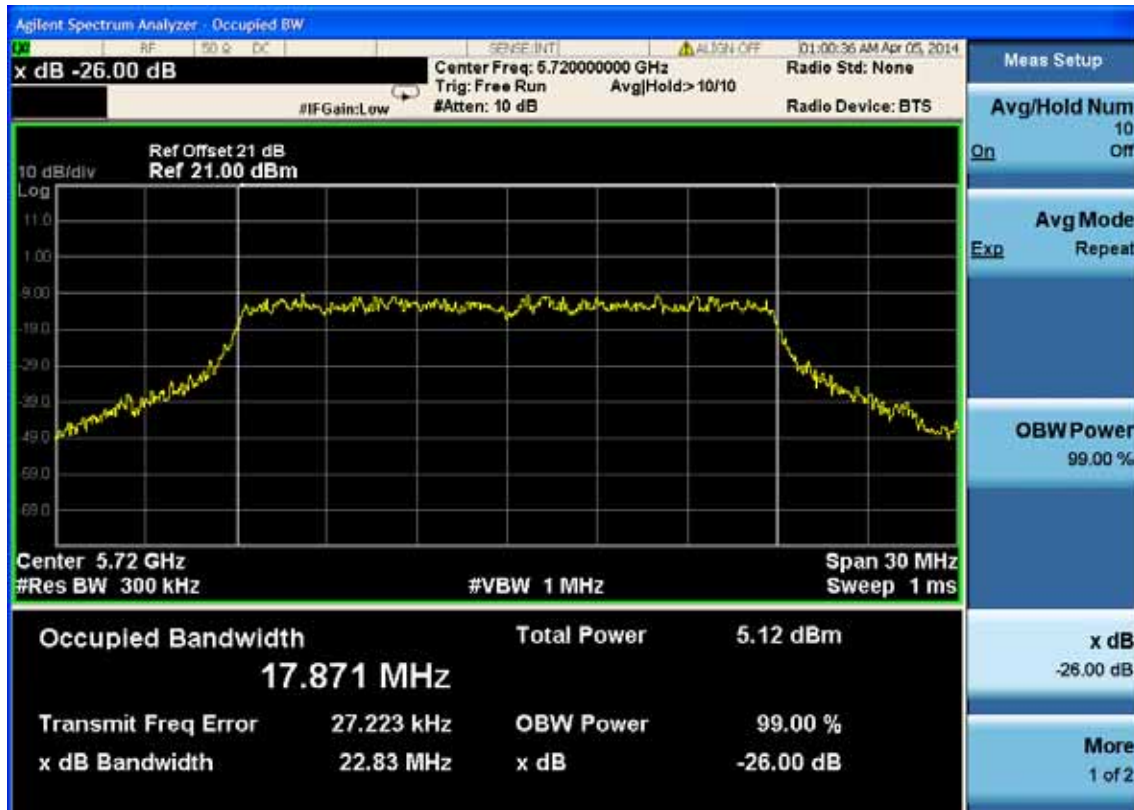
IEEE802.11ac VHT20 5500MHz



5600MHz

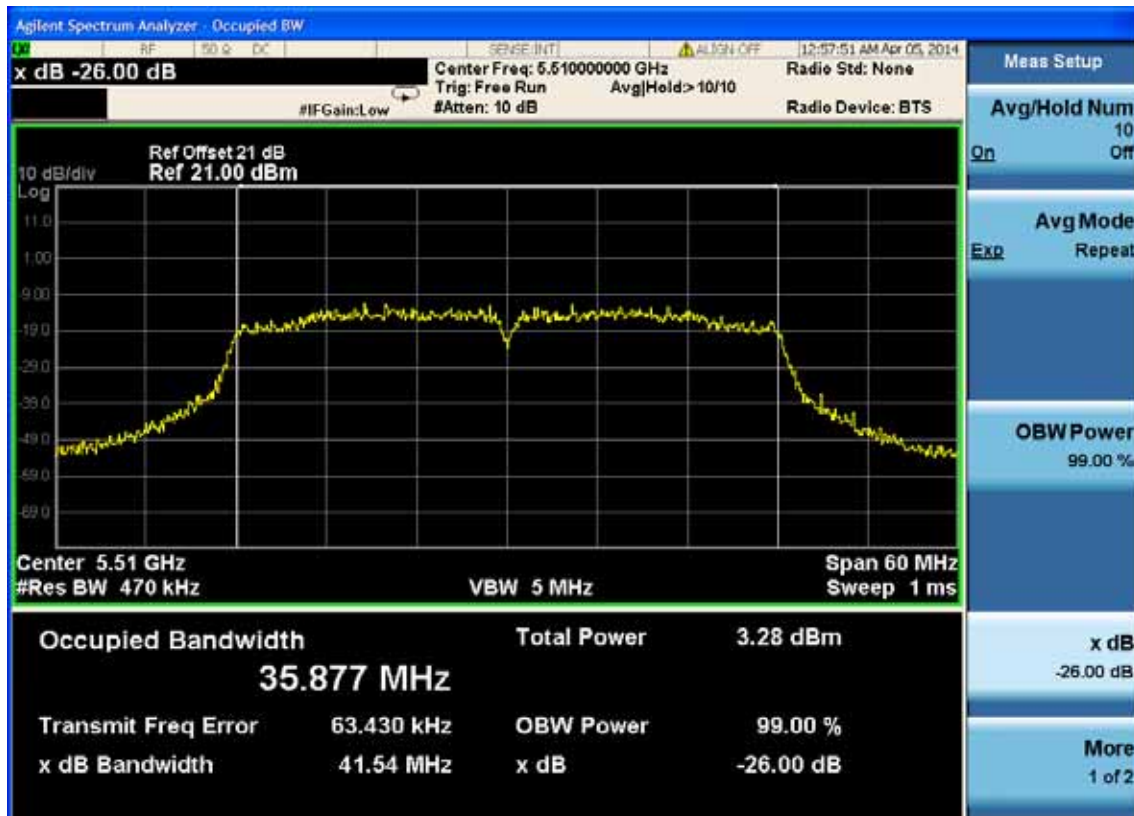


5720MHz

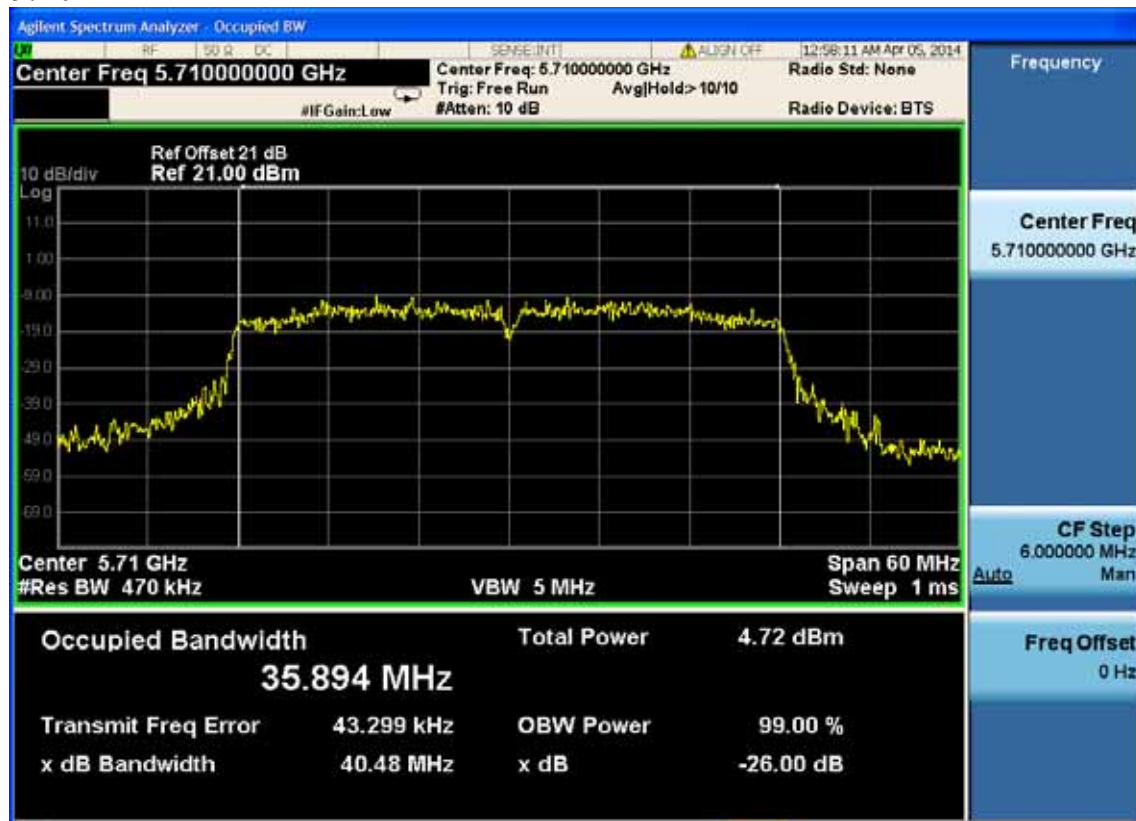


IEEE802.11ac VHT40

5510MHz

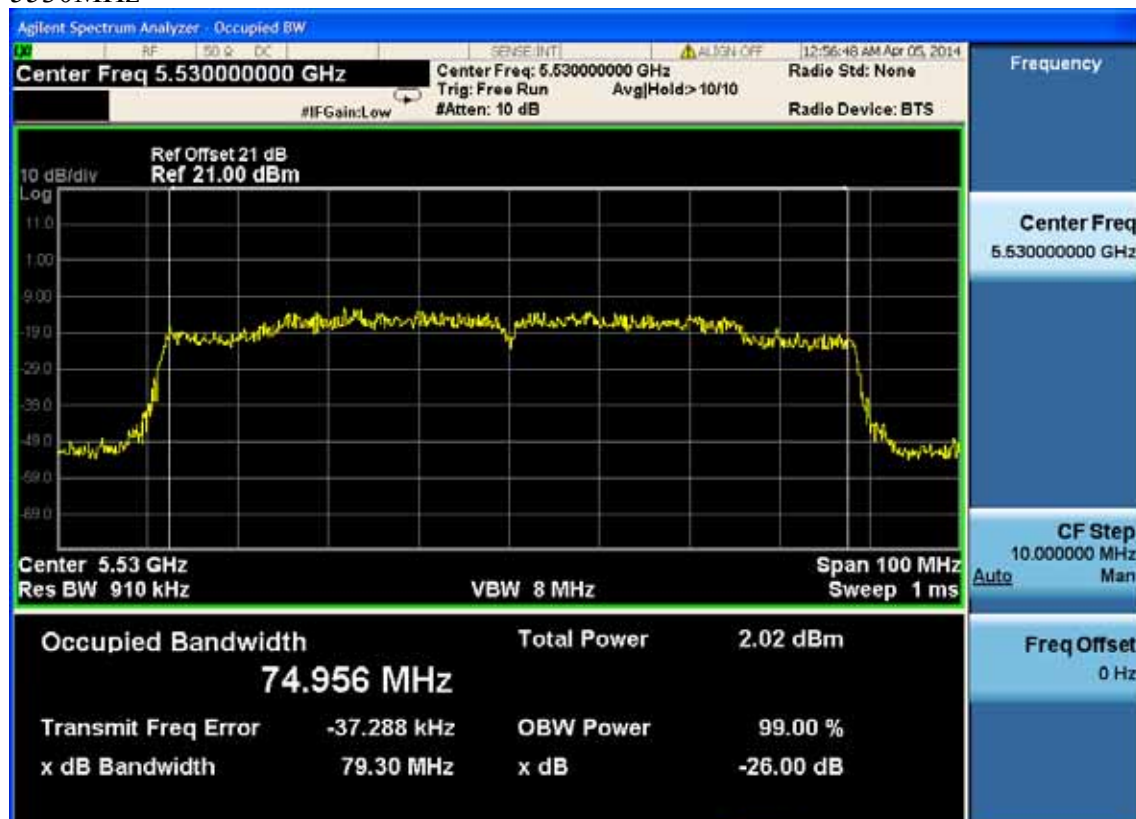


5710MHz

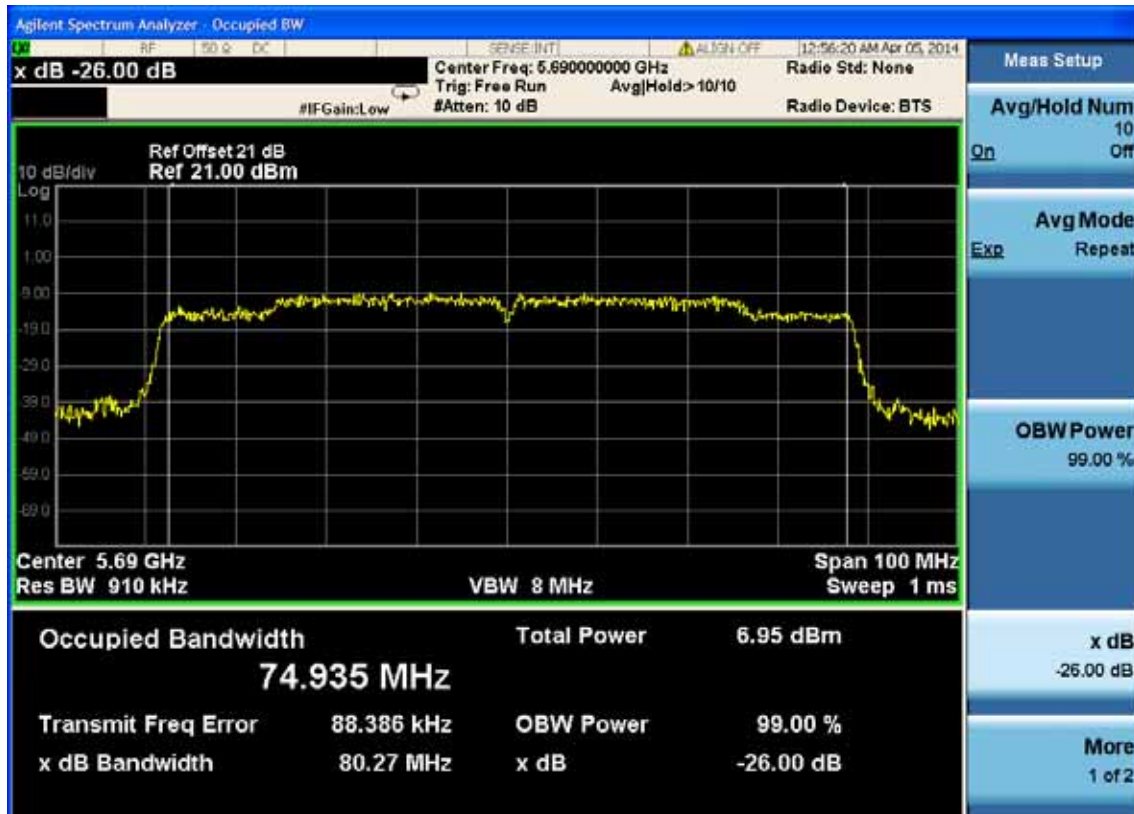


IEEE802.11ac VHT80

5530MHz

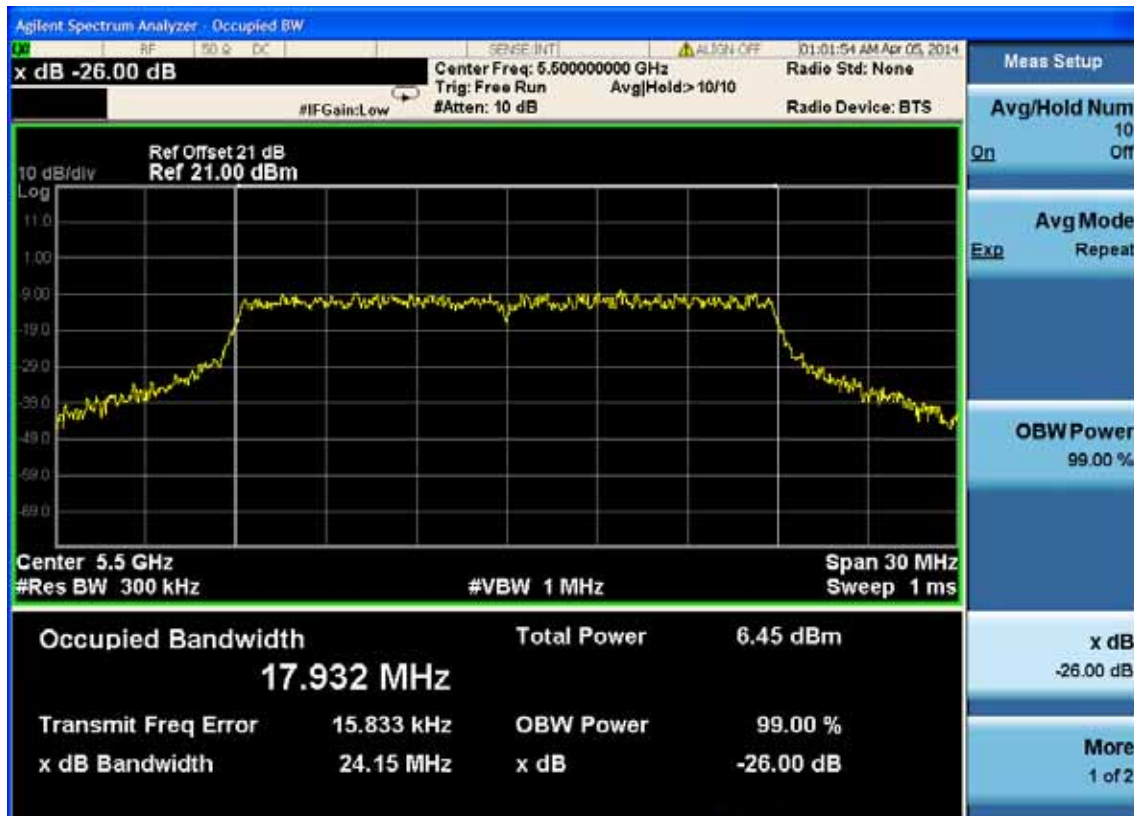


5690MHz

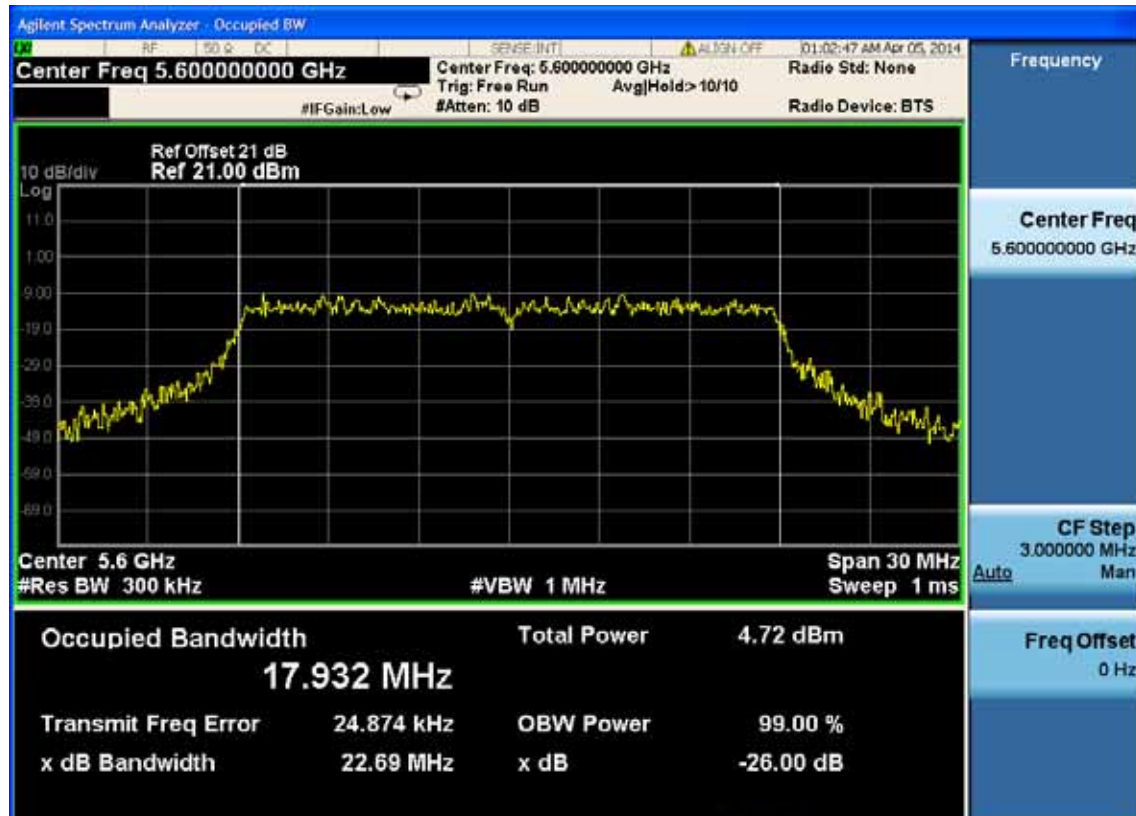


IEEE802.11nHT20

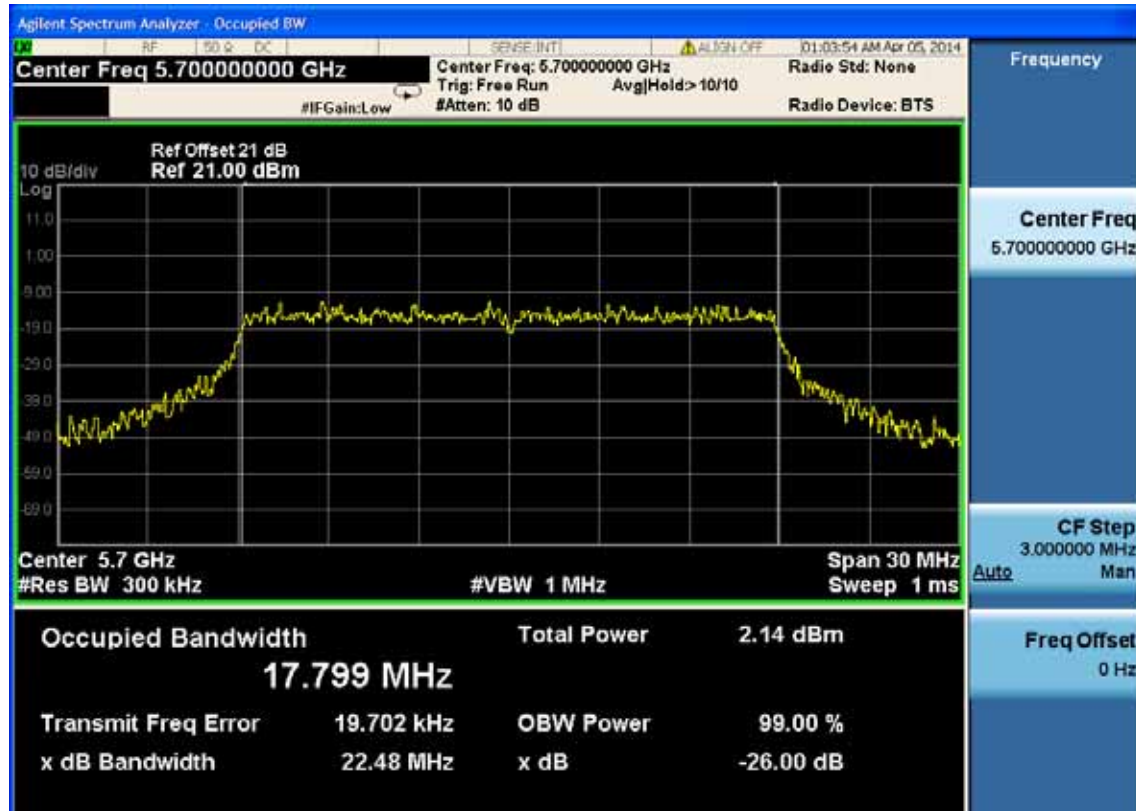
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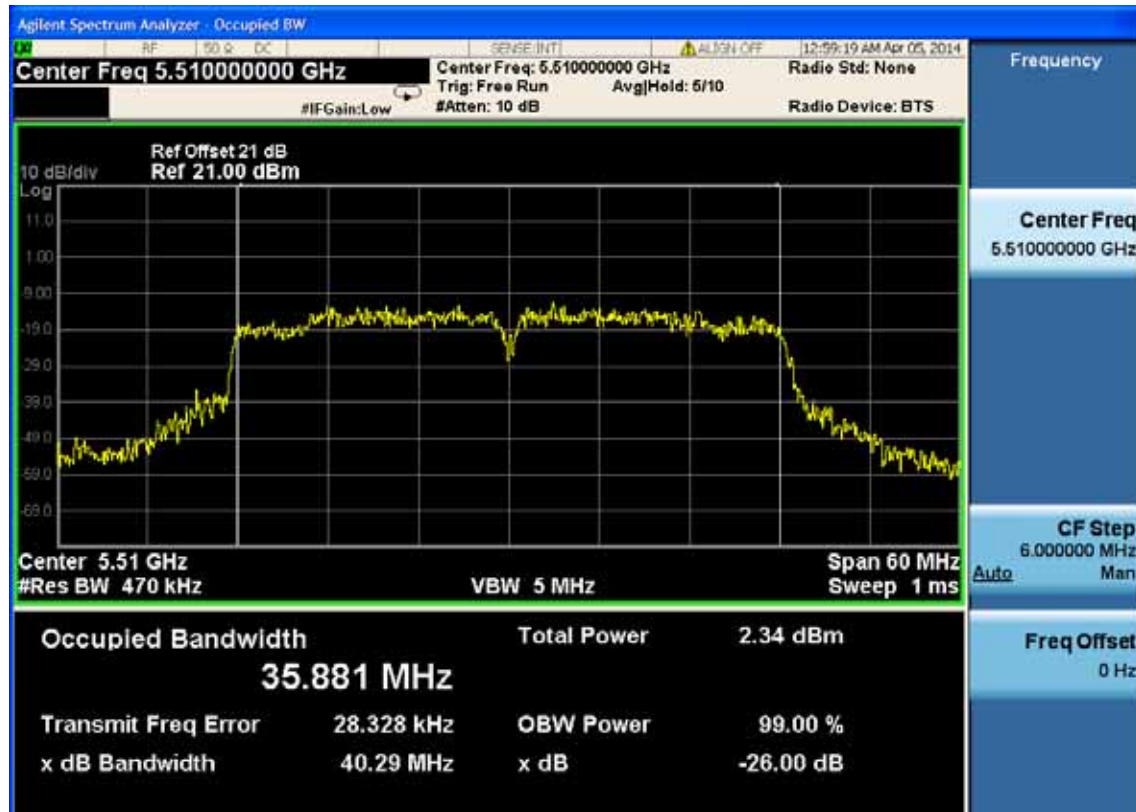
5600MHz



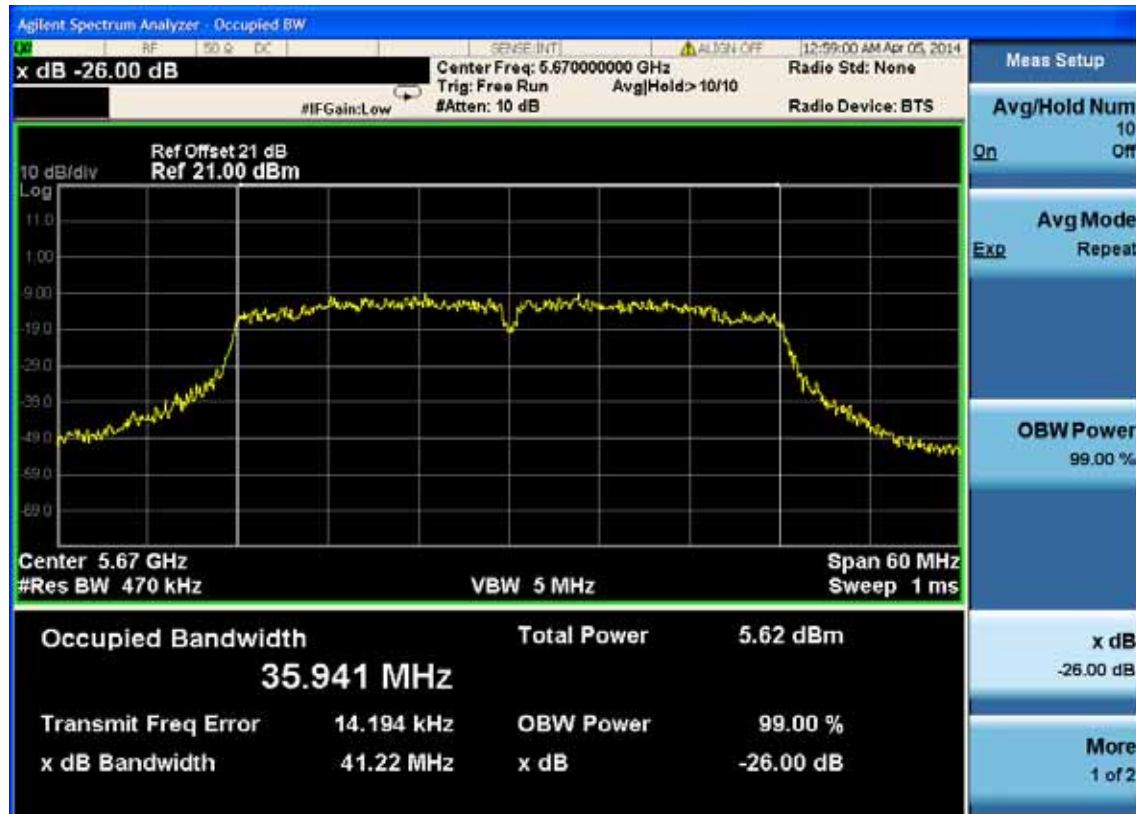
5700MHz



IEEE802.11nHT40 5510MHz



5670MHz



7. OUTPUT POWER TEST

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	April 28,14	1 Year
2.	Spectrum	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
3.	Power meter	Anritsu	ML2487A	6K00002472	April 28,14	1 Year
4.	Power sensor	Anritsu	MA2491A	0033005	April 28,14	1 Year
5.	Attenuator (20dB)	Agilent	8491B	MY39262165	April 28,14	1 Year
6	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	April 28,14	1 Year

7.2. Limit

For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm + 10log B, For the 5250-5350MHz and 5.47-5.725GHz the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250Mw or 11dBm+10 log B. where B is the 26-dB emission bandwidth in MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.3. Test Procedure

1. Connected the EUT's antenna port to measure device by 26dB attenuator.
2. For IEEE 802.11a and IEEE802.11n HT20 and 802.11ac VHT20 mode, use a PK power meter which's bandwidth is 20MHz and above 26dB bandwidth of signal to measure out each test modes' PK output power.
3. For IEEE802.11n HT40 and 802.11ac VHT40 & 80 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A.

Souse the test method described in KBD789033 clause E.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

7.4. Test Results

Band 1: (5150-5250MHz):

EUT: AC600 Wireless Dual Band USB Adapter			
M/N: T2U			
Test date: 2014-05-22		Pressure: 101.2±1.0 kpa	Humidity: 52.3±3.0%
Tested by: Kevin_Hu		Test site: RF site	Temperature: 22.1±0.6 °C
Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	Frequency (MHz)	RF Output Power (dBm)	Limit (dBm)
11a	5180	14.65	17
	5200	14.53	17
	5240	14.46	17
11n HT20	5180	14.38	17
	5200	14.21	17
	5240	14.3	17
11n HT40	5190	14.08	17
	5230	14.32	17
11ac VHT20	5180	14.11	17
	5200	14.27	17
	5240	14.16	17
11ac VHT40	5190	13.86	17
	5230	14.21	17
11ac VHT80	5210	13.94	17
Conclusion: PASS			

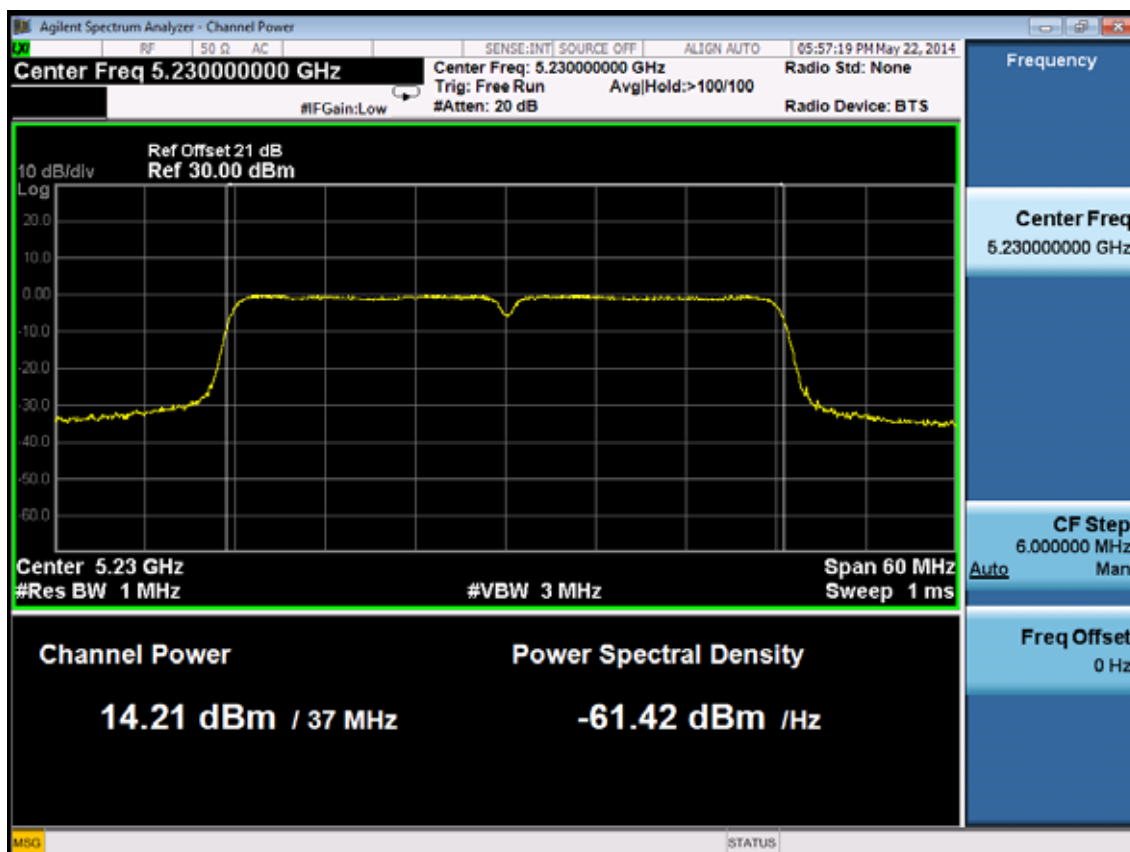
Band 2: (5250-5350MHz):

EUT: AC600 Wireless Dual Band USB Adapter			
M/N: T2U			
Test date: 2014-05-22		Pressure: 101.2±1.0 kpa	Humidity: 52.3±3.0%
Tested by: Kevin_Hu		Test site: RF site	Temperature: 22.1±0.6 °C
Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	Frequency (MHz)	RF Output Power (dBm)	Limit (dBm)
11a	5260	22.95	24
	5300	23.11	24
	5320	22.45	24
11n HT20	5260	23.18	24
	5300	23.13	24
	5320	21.62	24
11n HT40	5270	22.98	24
	5310	21.34	24
11ac VHT20	5260	23.03	24
	5300	23.08	24
	5320	21.56	24
11ac VHT40	5270	23.05	24
	5310	21.67	24
11ac VHT80	5290	20.58	24
Conclusion: PASS			

Band 3: (5470-5725MHz):

EUT: AC600 Wireless Dual Band USB Adapter			
M/N: T2U			
Test date: 2014-05-22		Pressure: 101.2±1.0 kpa	Humidity: 52.3±3.0%
Tested by: Kevin_Hu		Test site: RF site	Temperature: 22.1±0.6 °C
Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	Frequency (MHz)	RF Output Power (dBm)	Limit (dBm)
11a	5500	22.66	24
	5600	23.18	24
	5700	22.94	24
11n HT20	5500	21.51	24
	5600	23.23	24
	5700	22.75	24
11n HT40	5510	20.15	24
	5670	22.58	24
11ac VHT20	5500	21.46	24
	5600	23.03	24
	5720	23.25	24
11ac VHT40	5510	20.12	24
	5710	23.19	24
11ac VHT80	5530	20.8	24
	5690	23.48	24
Conclusion: PASS			

**Band 1: (5150-5250 MHz):
IEEE 802.11ac VHT40**

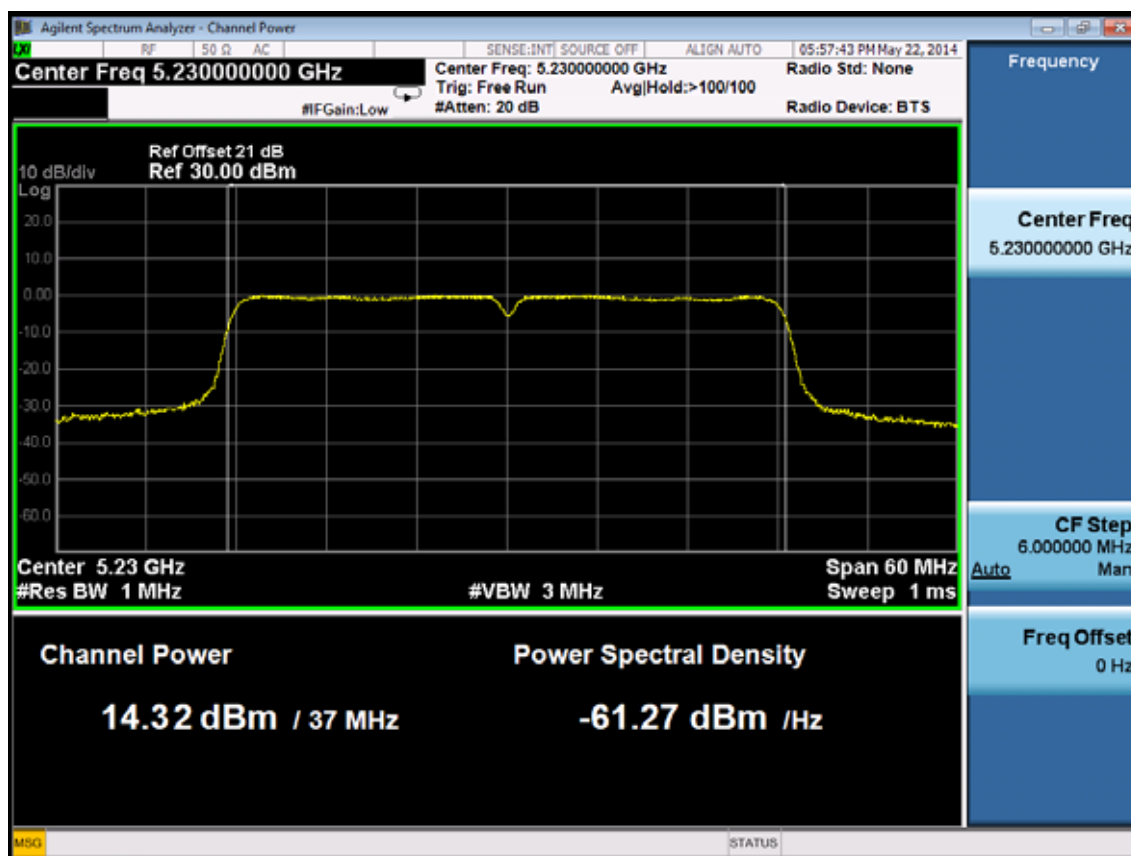


IEEE 802.11ac VHT40



IEEE 802.11n HT40





Band 2: (5250-5350MHz)
IEEE 802.11ac VHT40





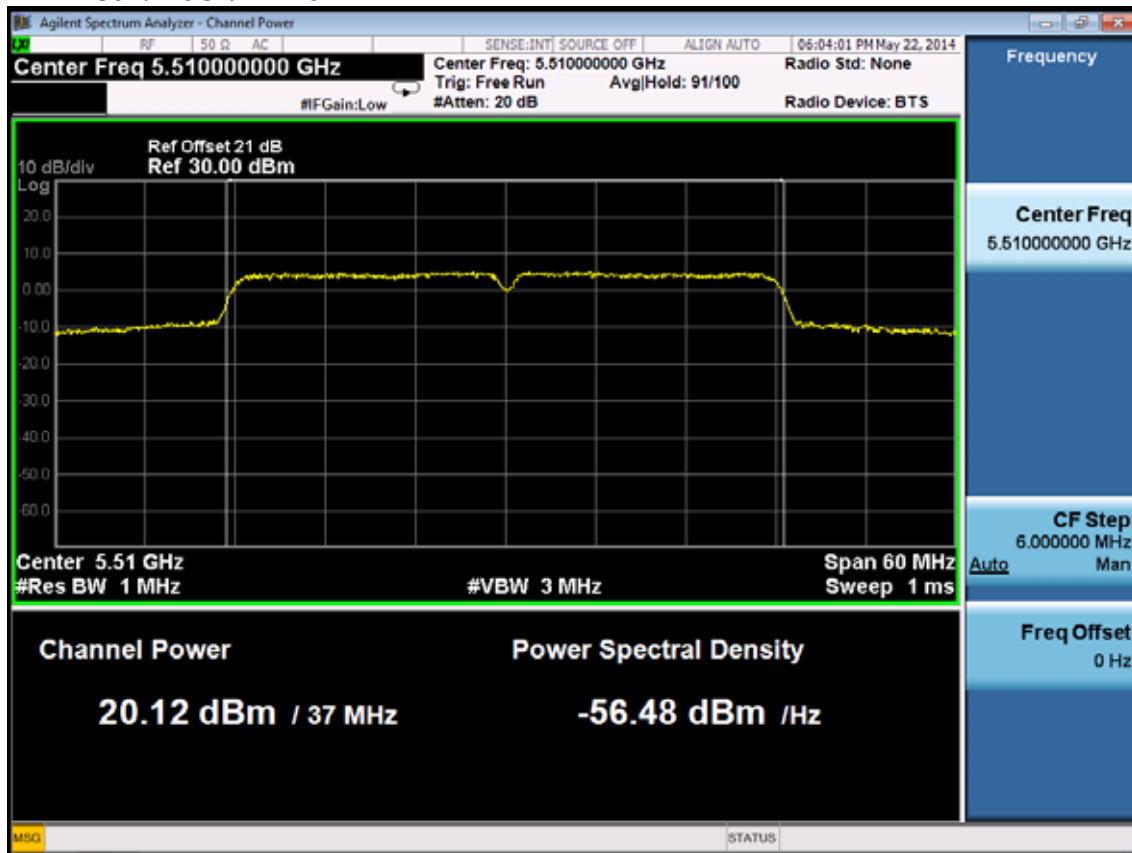
IEEE 802.11ac VHT80



IEEE 802.11n HT40



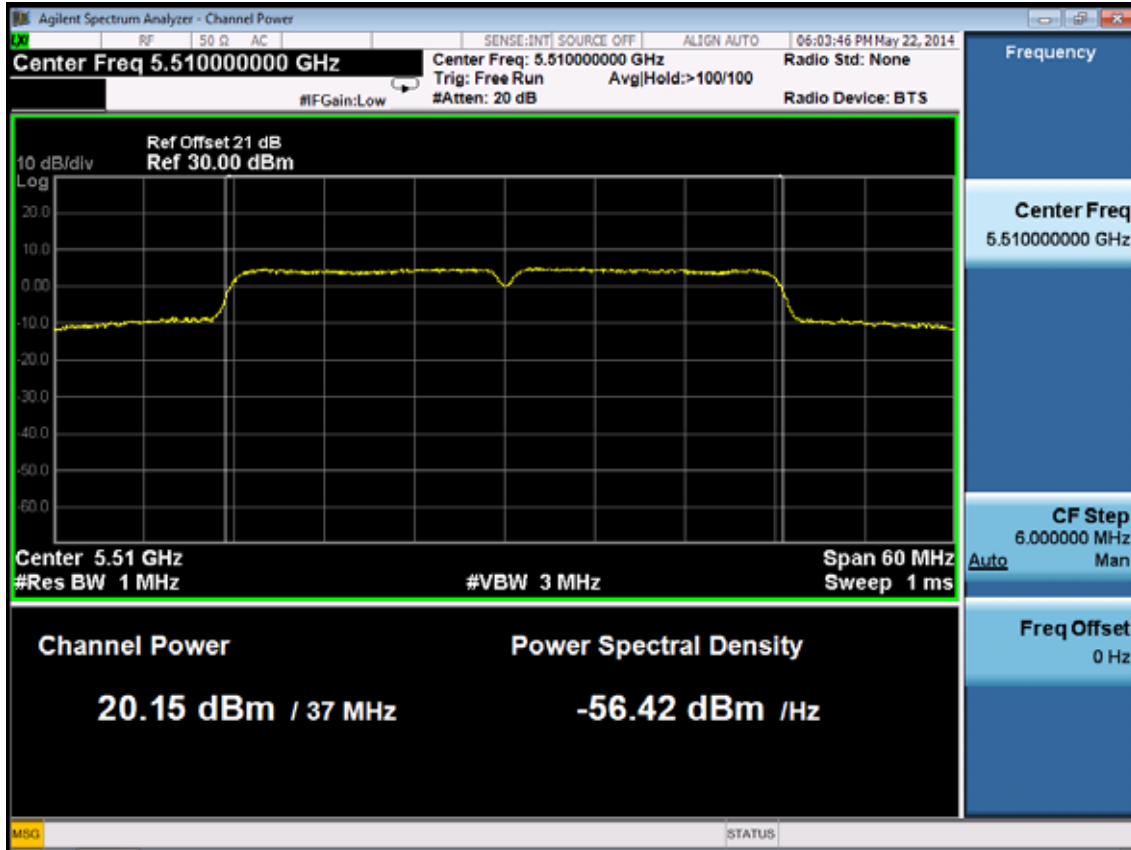
Band 3: (5470-5725MHz):
IEEE 802.11ac VHT40



IEEE 802.11ac VHT80



IEEE 802.11n HT40



8. POWER SPECTRAL DENSITY TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9607-4877	Aug.28, 13	1 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

8.2. Limit

For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. 5250-5350MHz, 5470-5725MHz shall not exceed 11dBm in any 1-MHz band.

8.3. Test Procedure

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW, Detector: RMS Mode.

8.4. Test Results

Band 1: (5150-5250MHz):

EUT: AC600 Wireless Dual Band USB Adapter		
M/N: T2U		
Test date: 2014-05-17	Pressure: 101.1±1.0 kpa	Humidity: 52.2±3.0%
Tested by: Kevin_Hu	Test site: RF Site	Temperature : 22.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	Frequency (MHz)	(dBm/MHz)	Limit (dBm/MHz)
11a	5180	3.552	4
	5200	3.414	4
	5240	3.367	4
11n HT20	5180	3.292	4
	5200	3.490	4
	5240	3.567	4
11n HT40	5190	0.081	4
	5230	0.235	4
11ac VHT20	5180	3.369	4
	5200	3.406	4
	5240	3.528	4
11ac VHT40	5190	-0.569	4
	5230	-0.105	4
11ac VHT80	5210	-3.338	4
Conclusion: PASS			

Band 2: (5250-5350MHz):

EUT: AC600 Wireless Dual Band USB Adapter		
M/N: T2U		
Test date: 2014-05-17	Pressure: 101.1±1.0 kpa	Humidity: 52.2±3.0%
Tested by: Kevin_Hu	Test site: RF Site	Temperature : 22.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	Frequency (MHz)	(dBm/MHz)	Limit
			(dBm/MHz)
11a	5260	0.123	11
	5300	1.216	11
	5320	-0.927	11
11n HT20	5260	-2.906	11
	5300	-1.113	11
	5320	-4.133	11
11n HT40	5270	-7.140	11
	5310	-5.728	11
11ac VHT20	5260	-2.692	11
	5300	-1.702	11
	5320	-2.704	11
11ac VHT40	5270	-5.722	11
	5310	-4.619	11
11ac VHT80	5290	-7.120	11
Conclusion: PASS			

Band 3: (5470-5725MHz):

EUT: AC600 Wireless Dual Band USB Adapter		
M/N: T2U		
Test date: 2014-05-17	Pressure: 101.1±1.0 kpa	Humidity: 52.2±3.0%
Tested by: Kevin_Hu	Test site: RF Site	Temperature : 22.7±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	Frequency (MHz)	(dBm/MHz)	Limit
			(dBm/MHz)
11a	5500	-1.163	11
	5600	0.371	11
	5700	-2.644	11
11n HT20	5500	-1.979	11
	5600	-1.373	11
	5700	-5.139	11
11n HT40	5510	-6.375	11
	5670	-8.532	11
11ac VHT20	5500	-1.300	11
	5600	-3.477	11
	5720	-2.765	11
11ac VHT40	5510	-6.873	11
	5710	-7.151	11
11ac VHT80	5530	-6.064	11
	5690	-8.063	11
Conclusion: PASS			

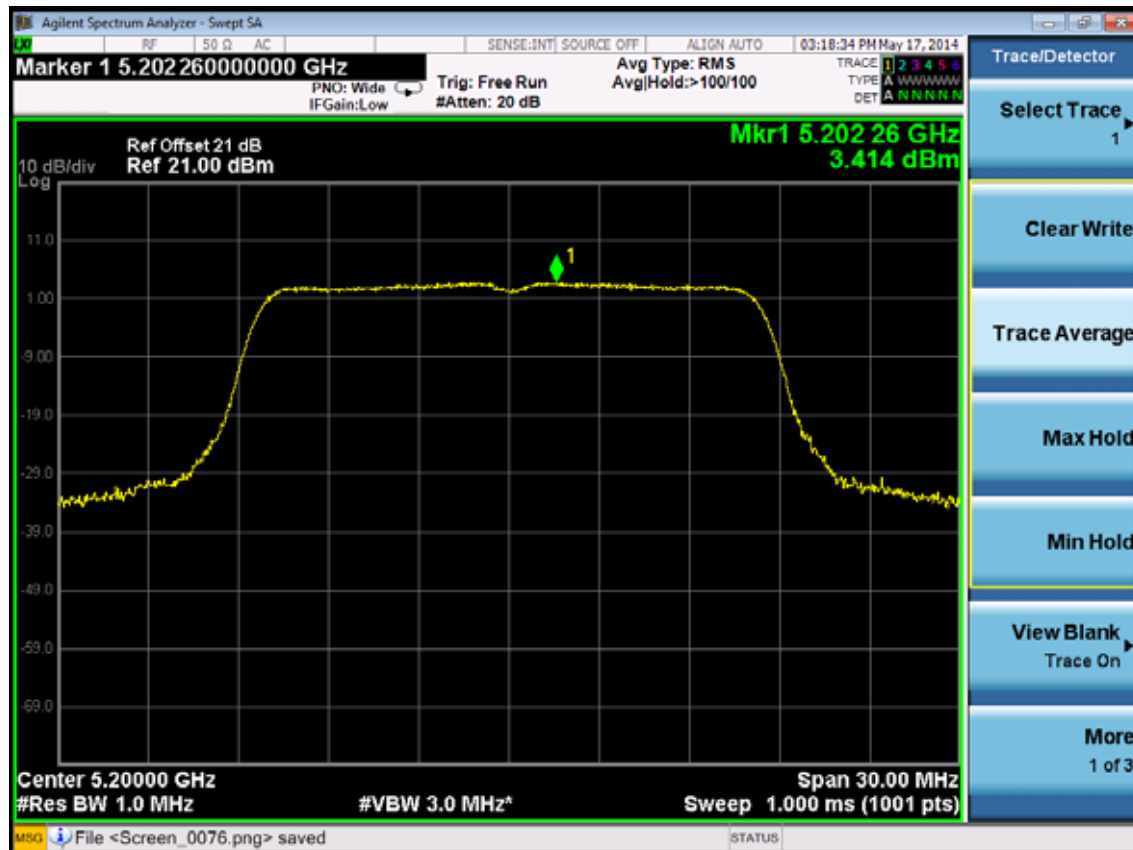
Band 1: (5150-5250MHz):

IEEE802.11a

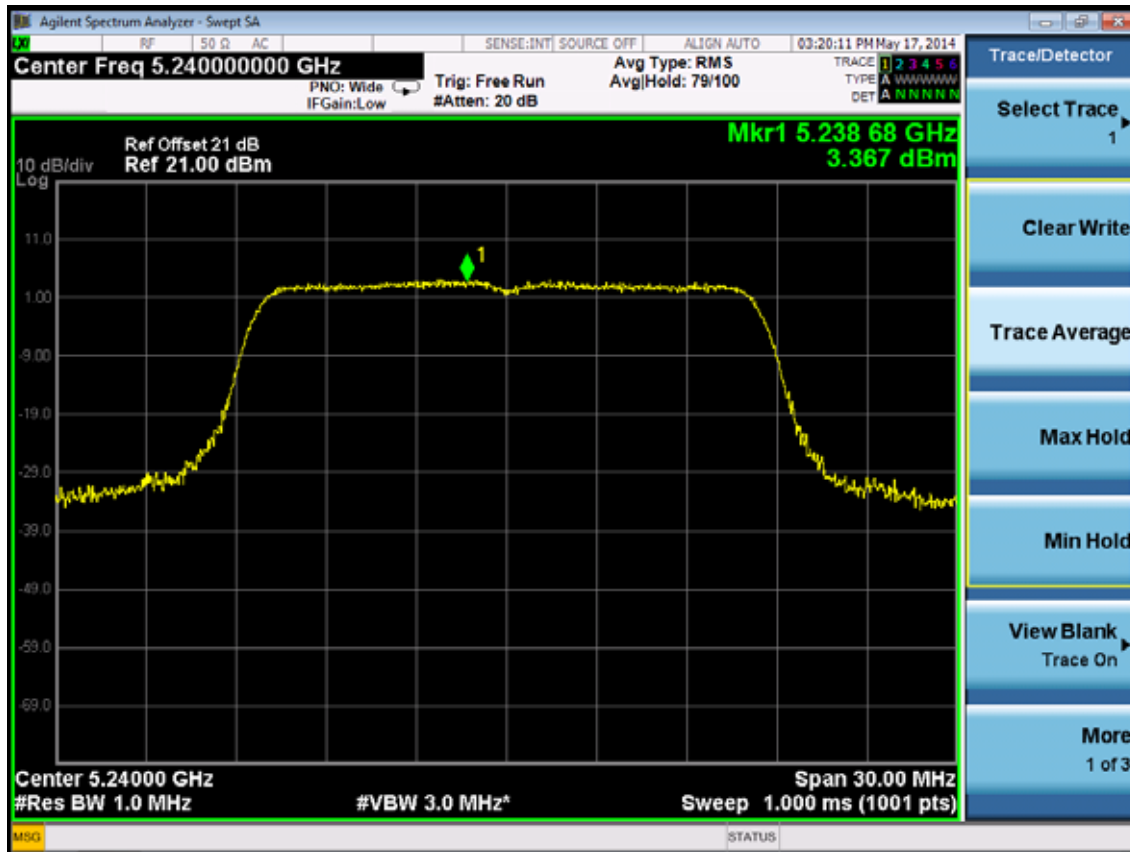
5180MHz



5200MHz

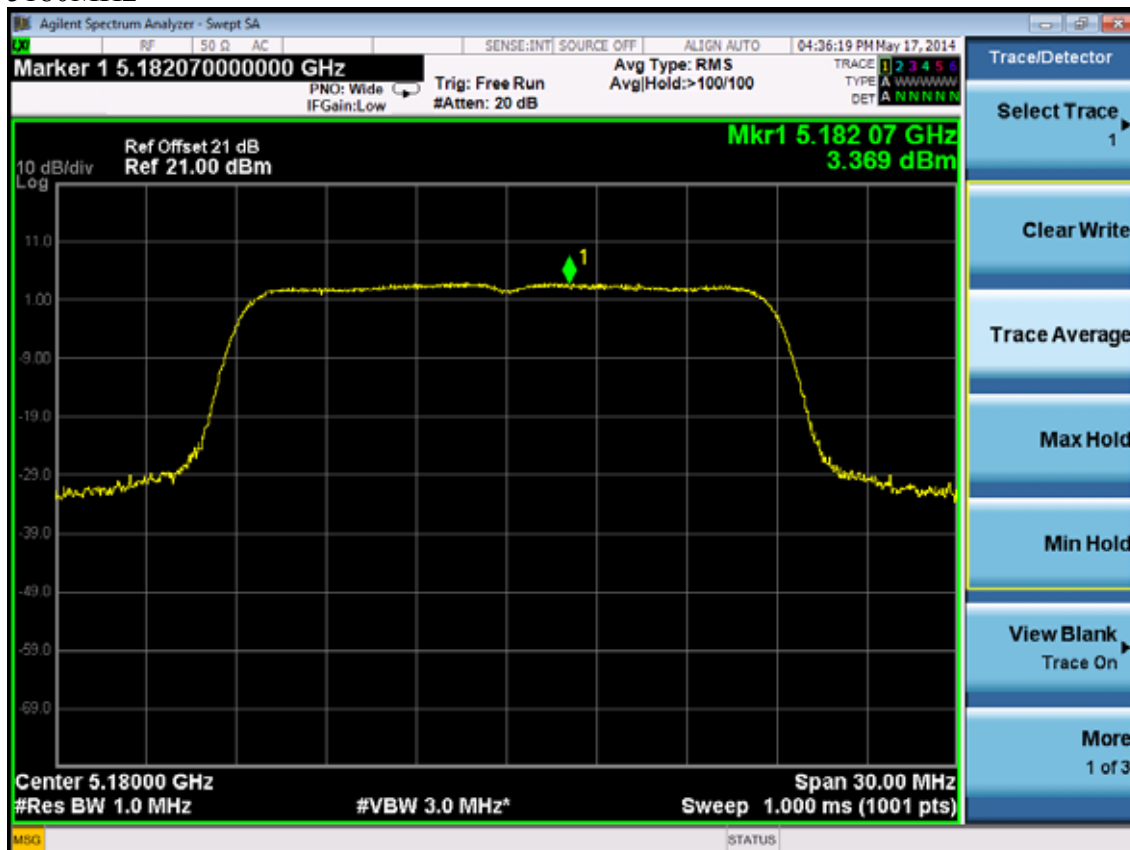


5240MHz

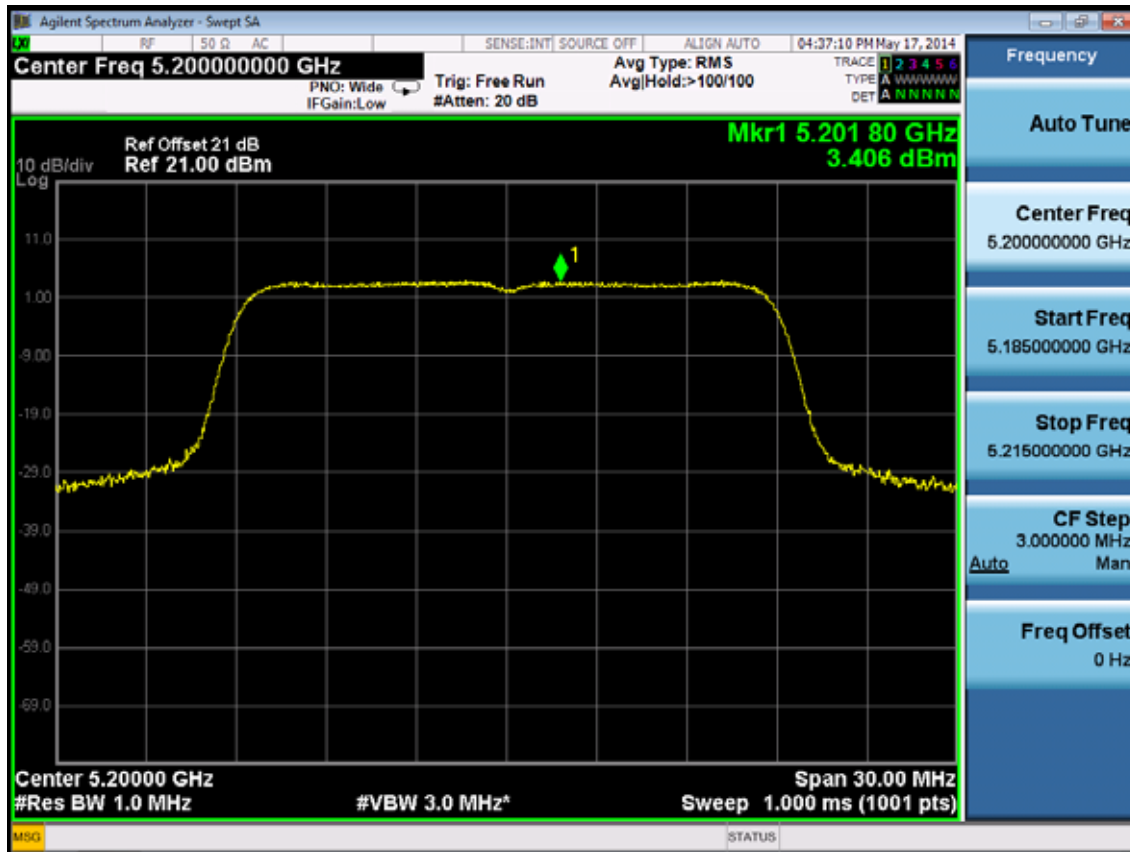


IEEE802.11ac VHT20

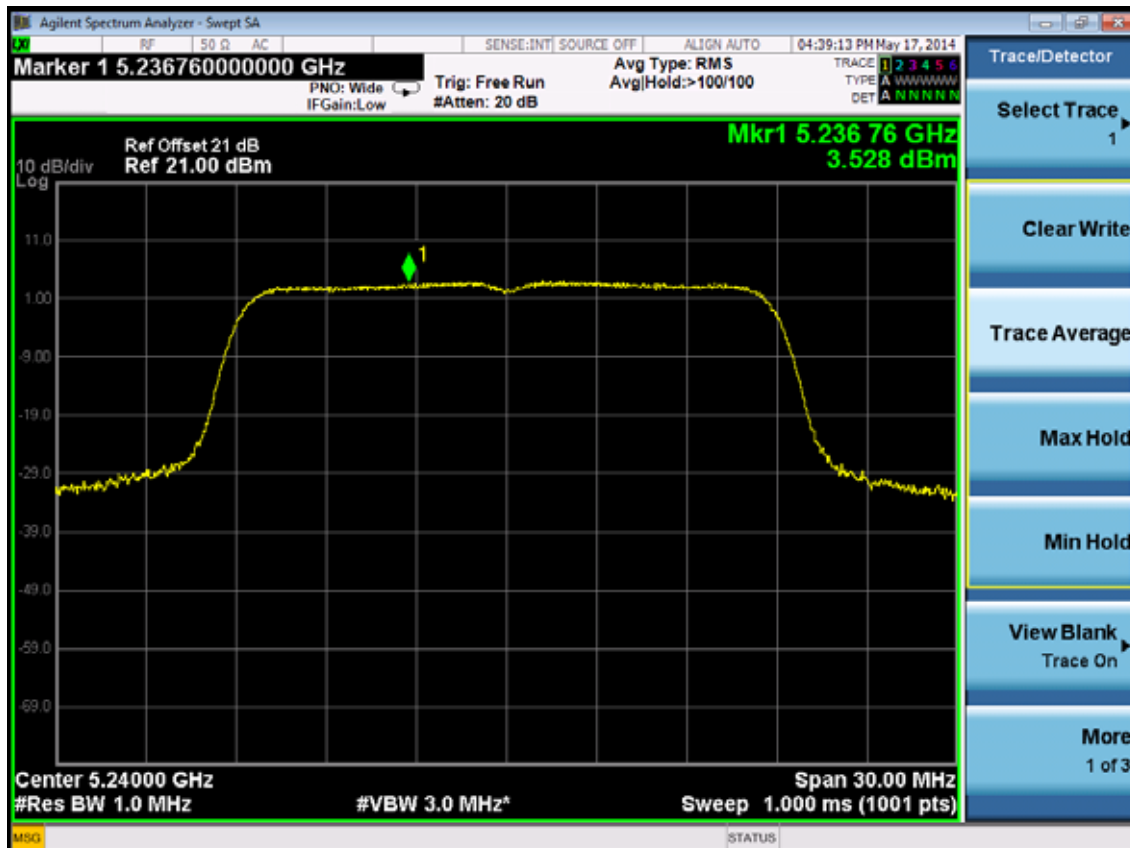
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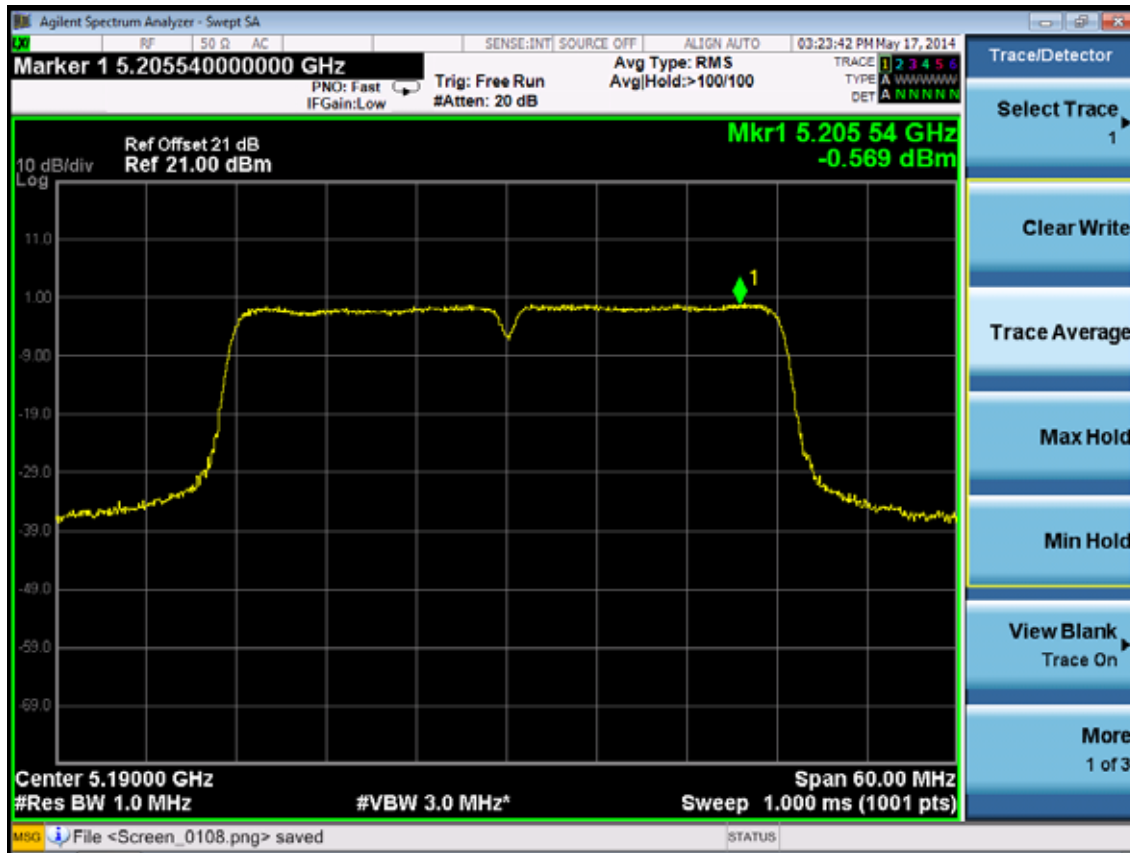
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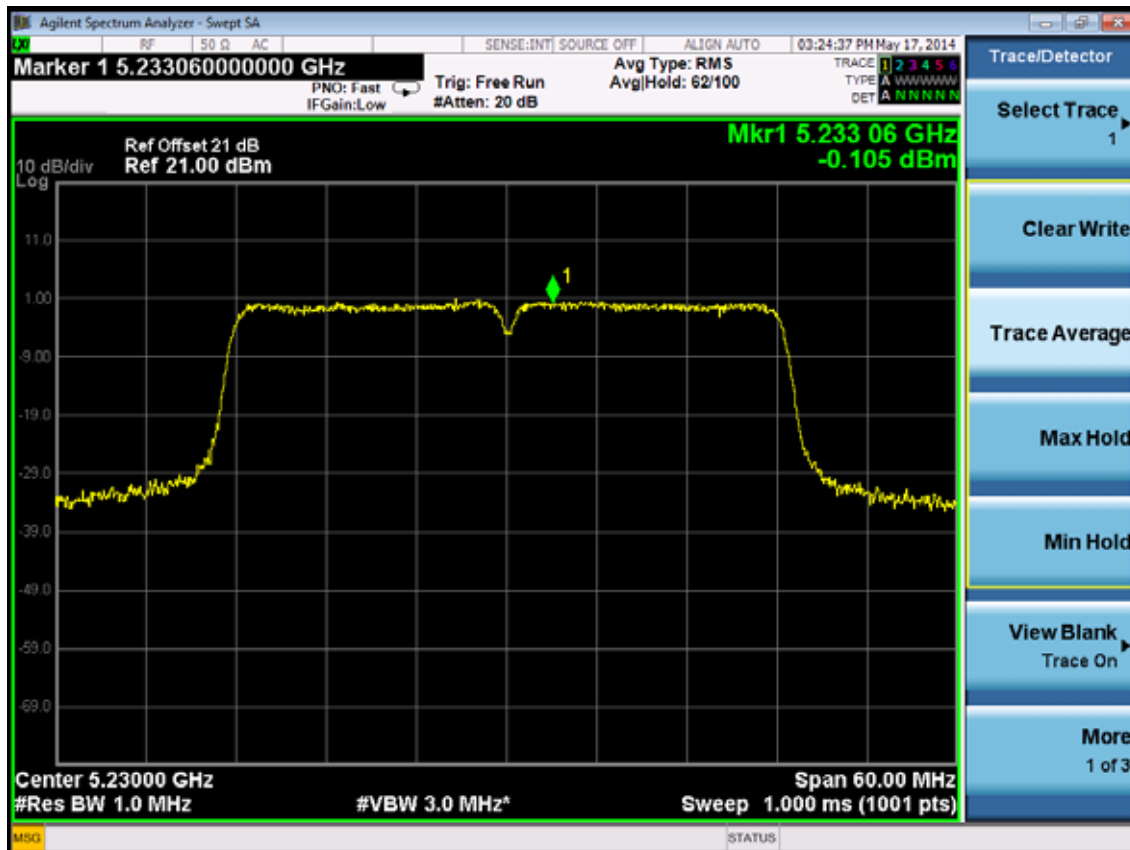
5240MHz



IEEE802.11ac VHT40 5190MHz

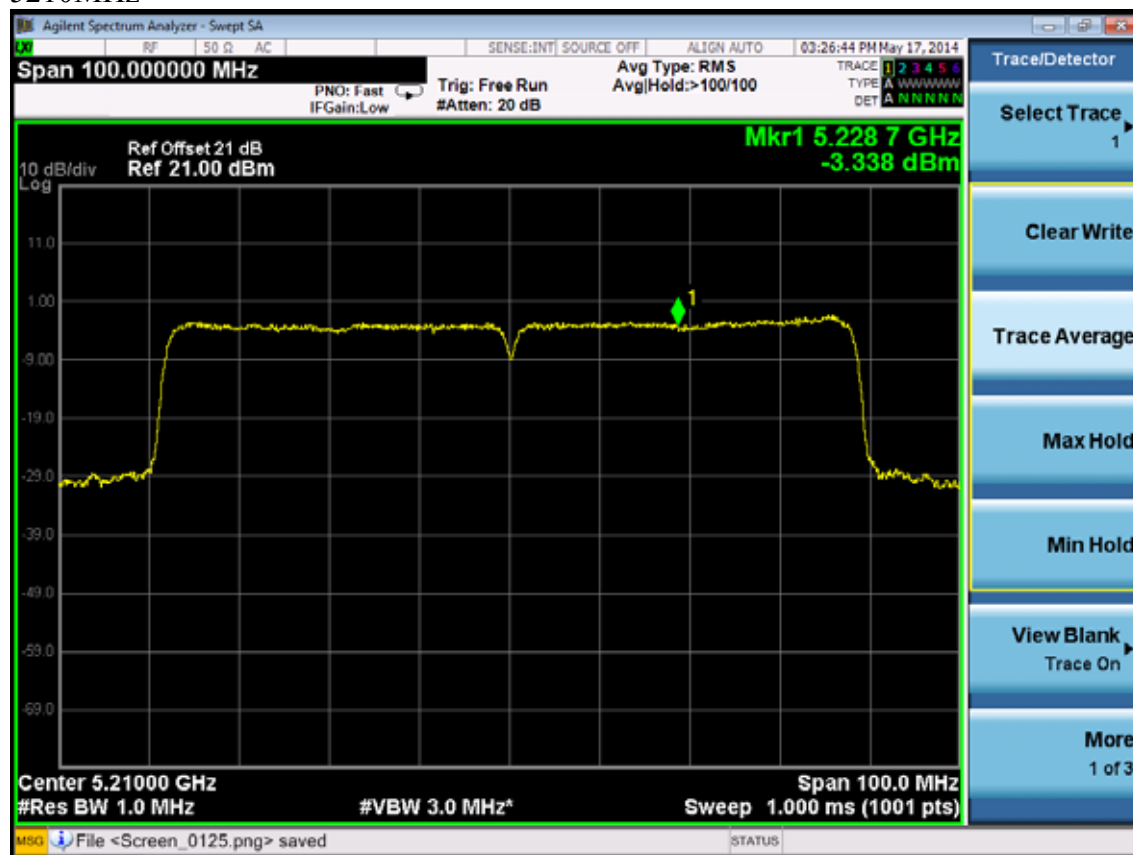


5230MHz



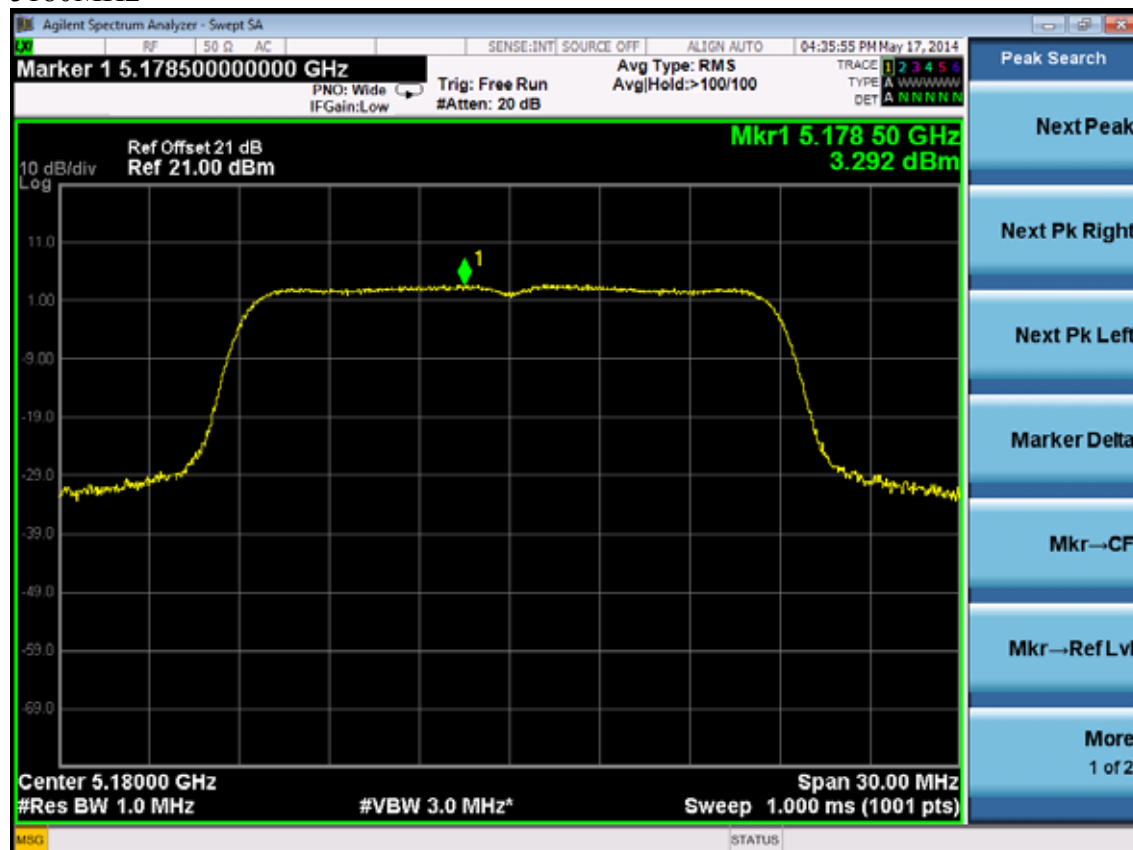
IEEE802.11ac VHT80

5210MHz

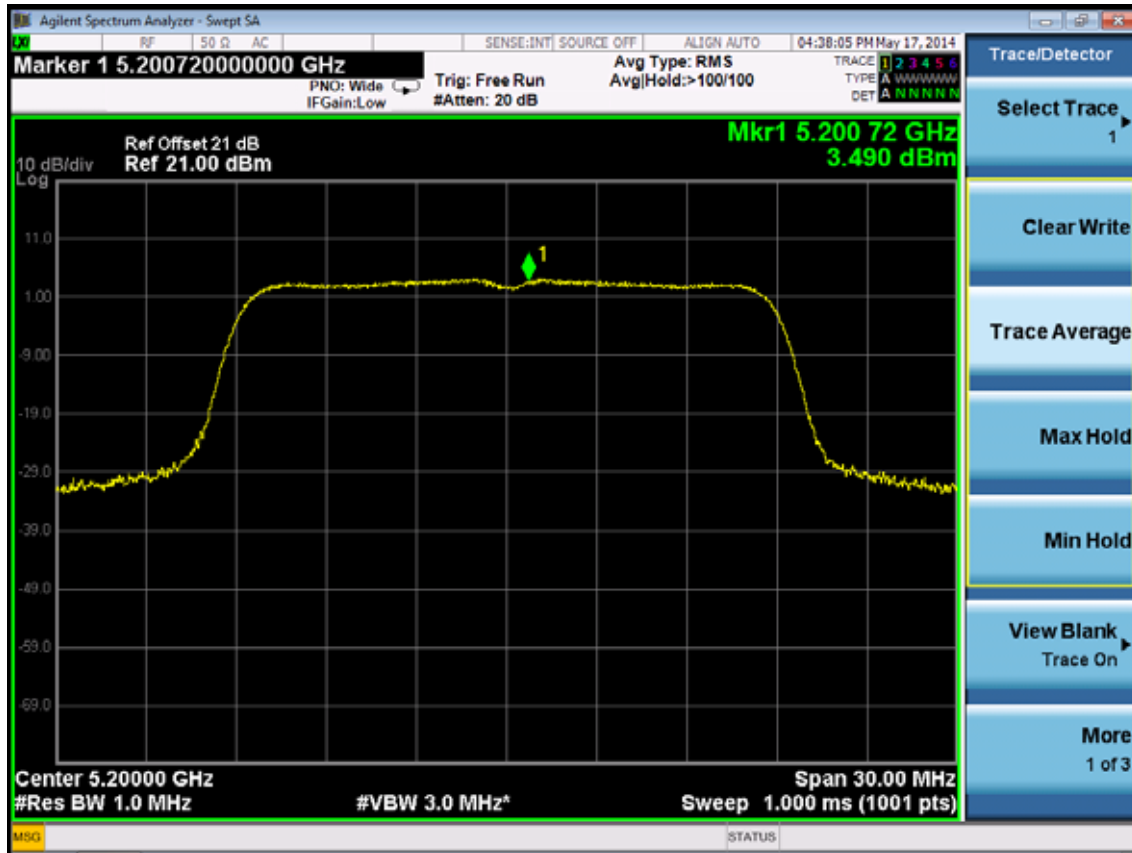


IEEE802.11nHT20

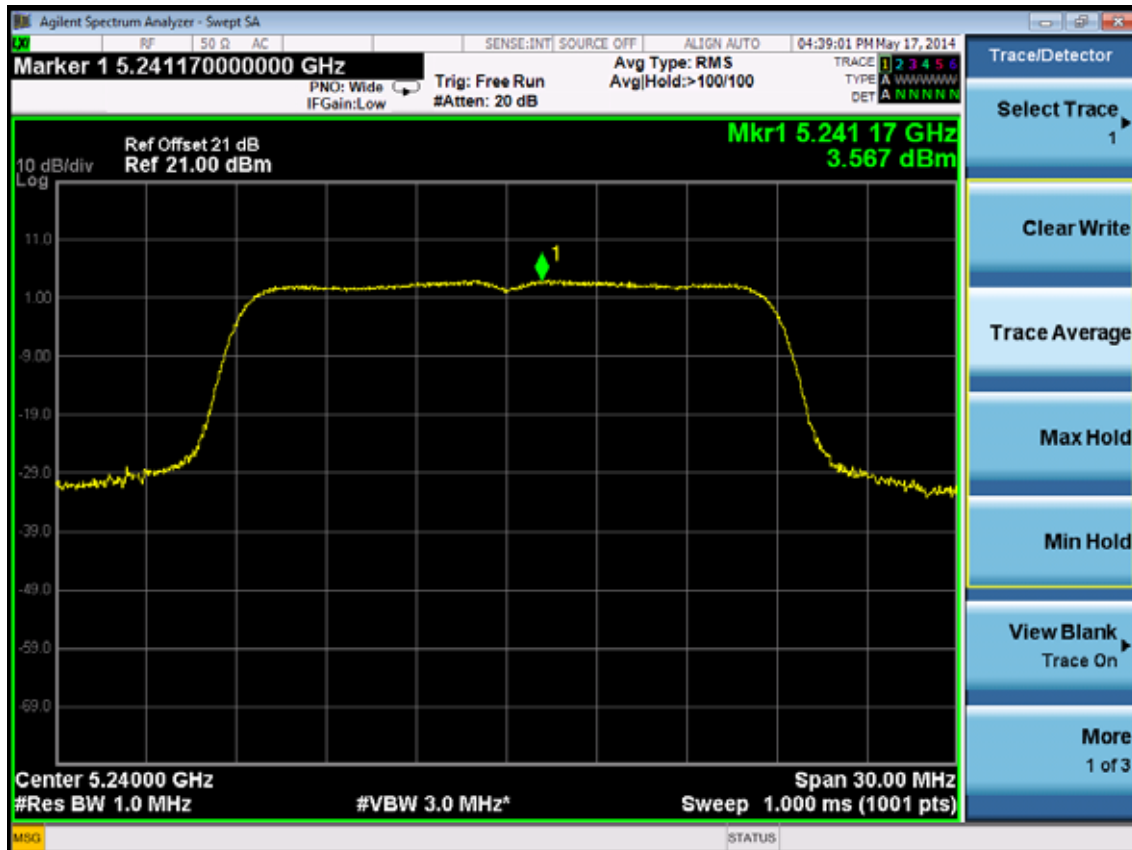
5180MHz



5200MHz

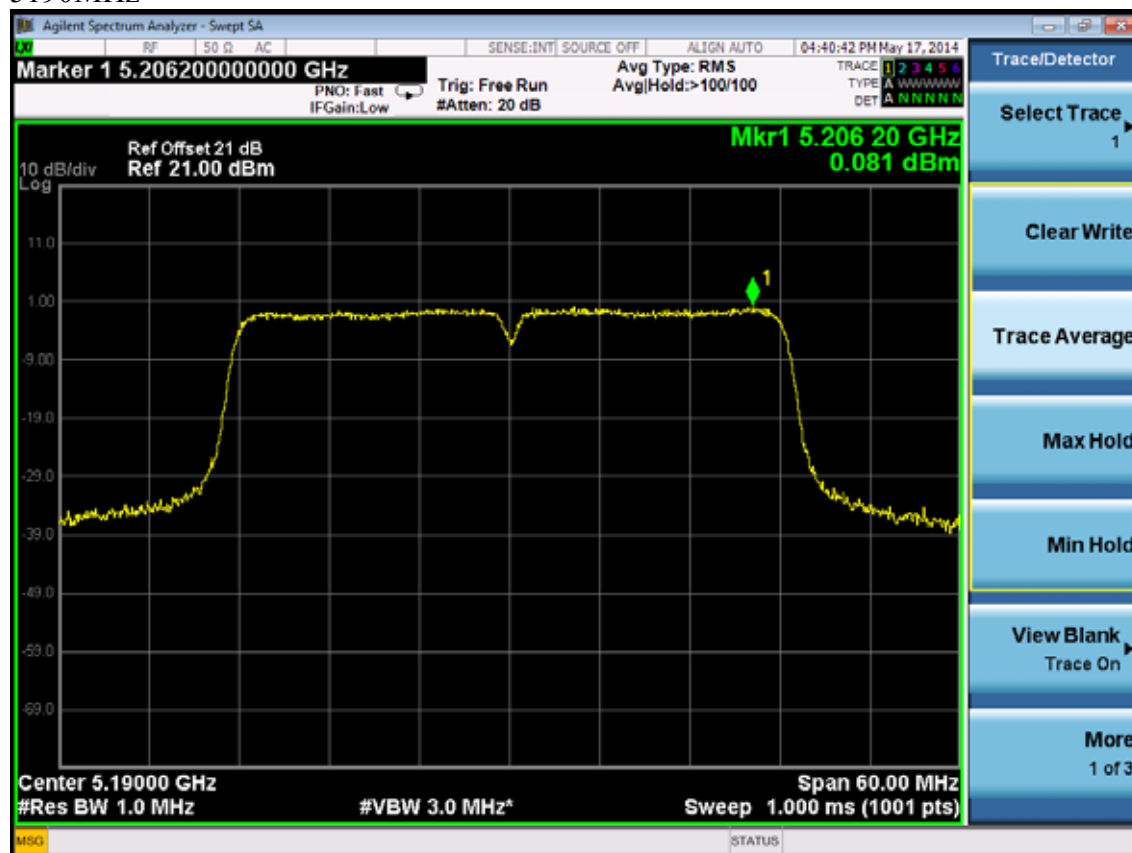


5240MHz



IEEE802.11nHT40

5190MHz



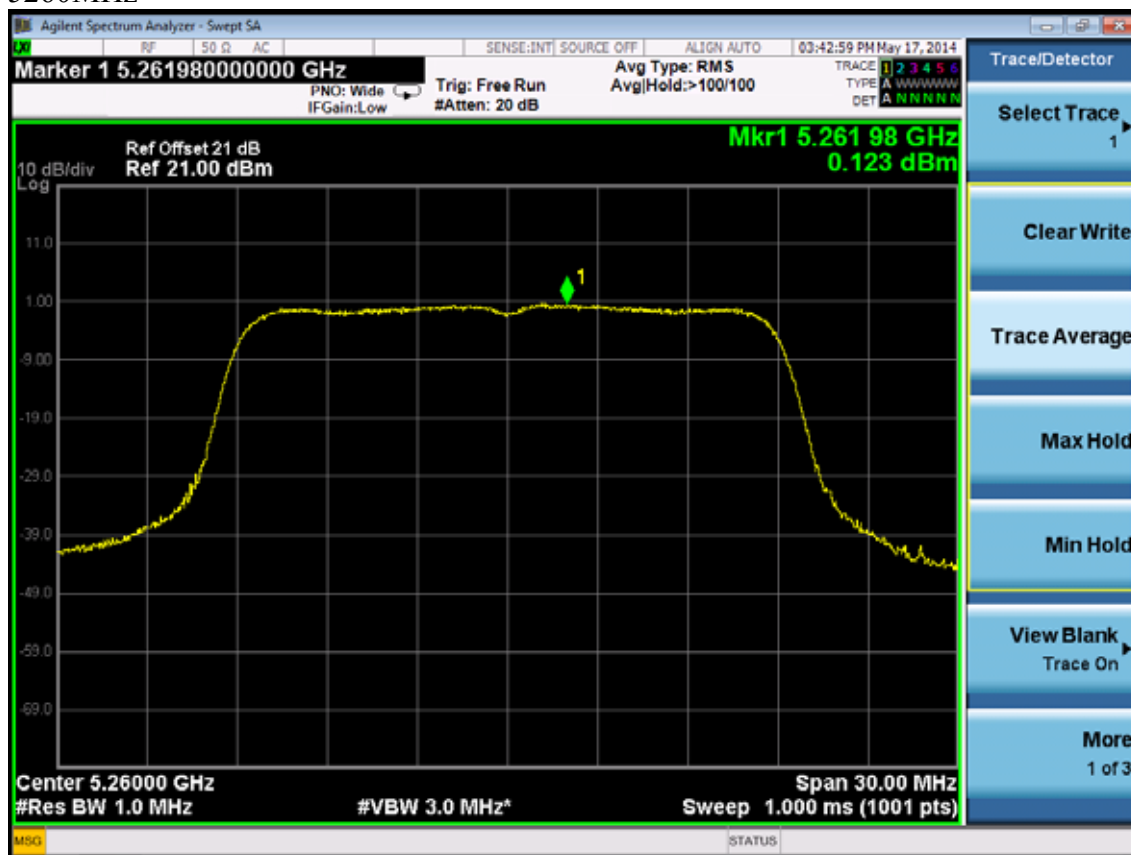
5230MHz



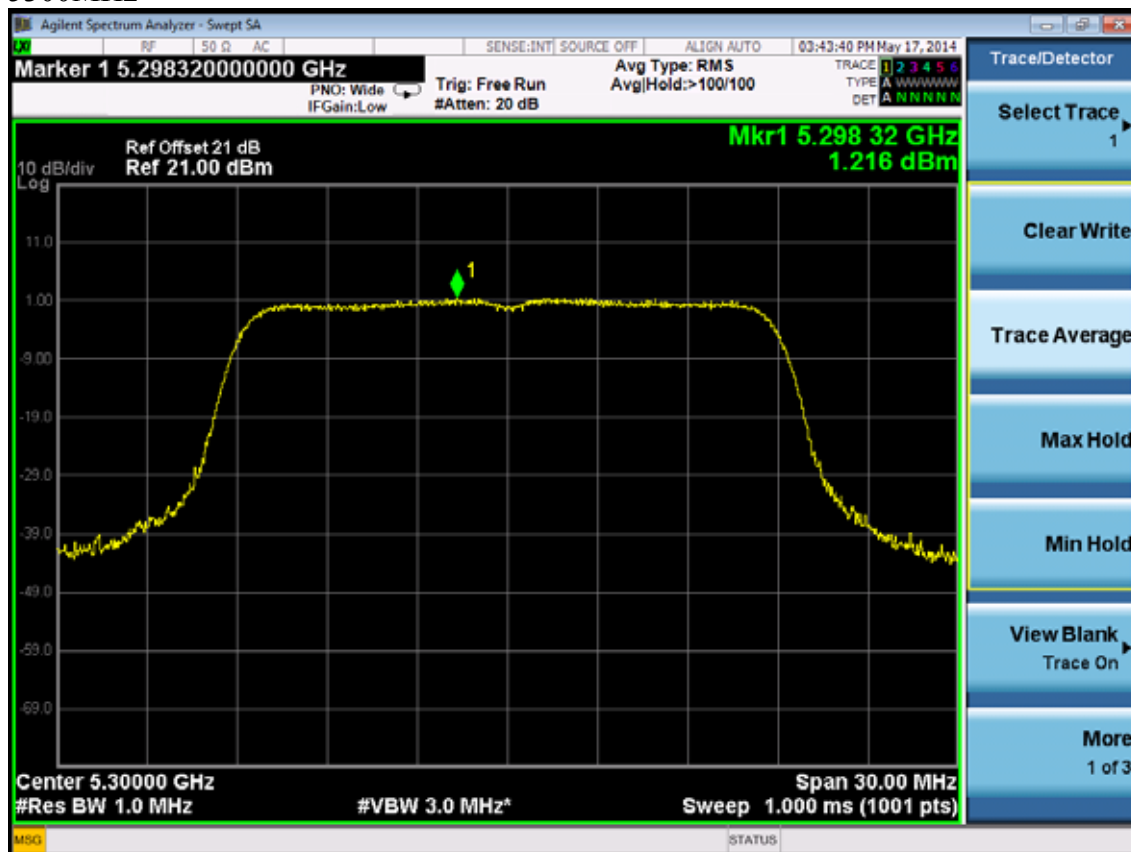
Band 2: (5250-5350MHz):

IEEE802.11a

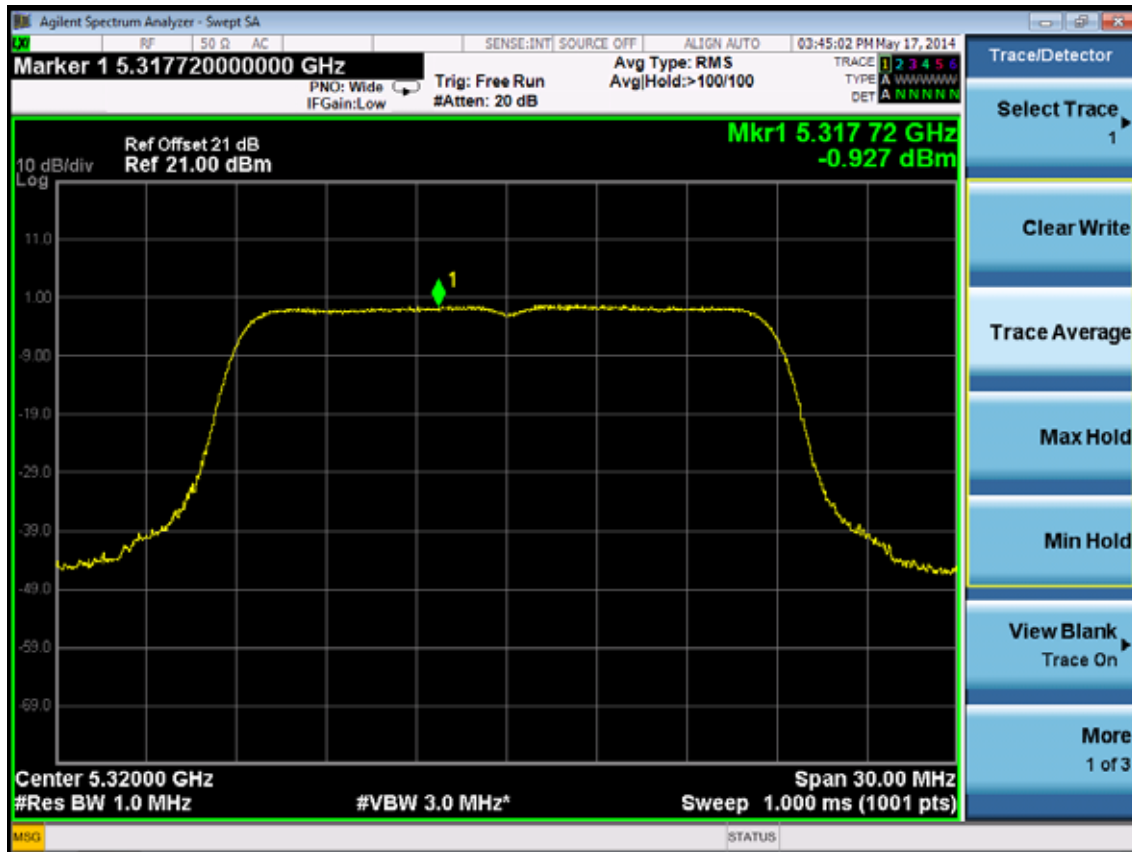
5260MHz



5300MHz

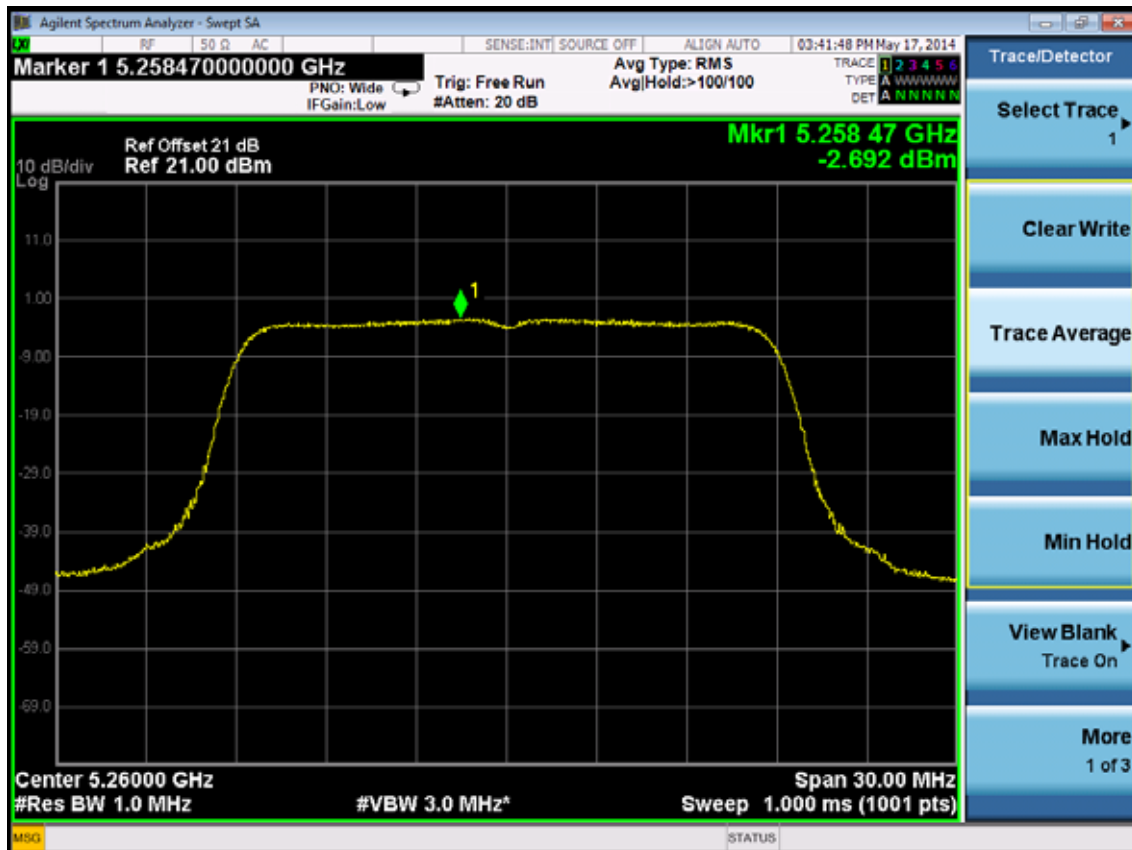


5320MHz

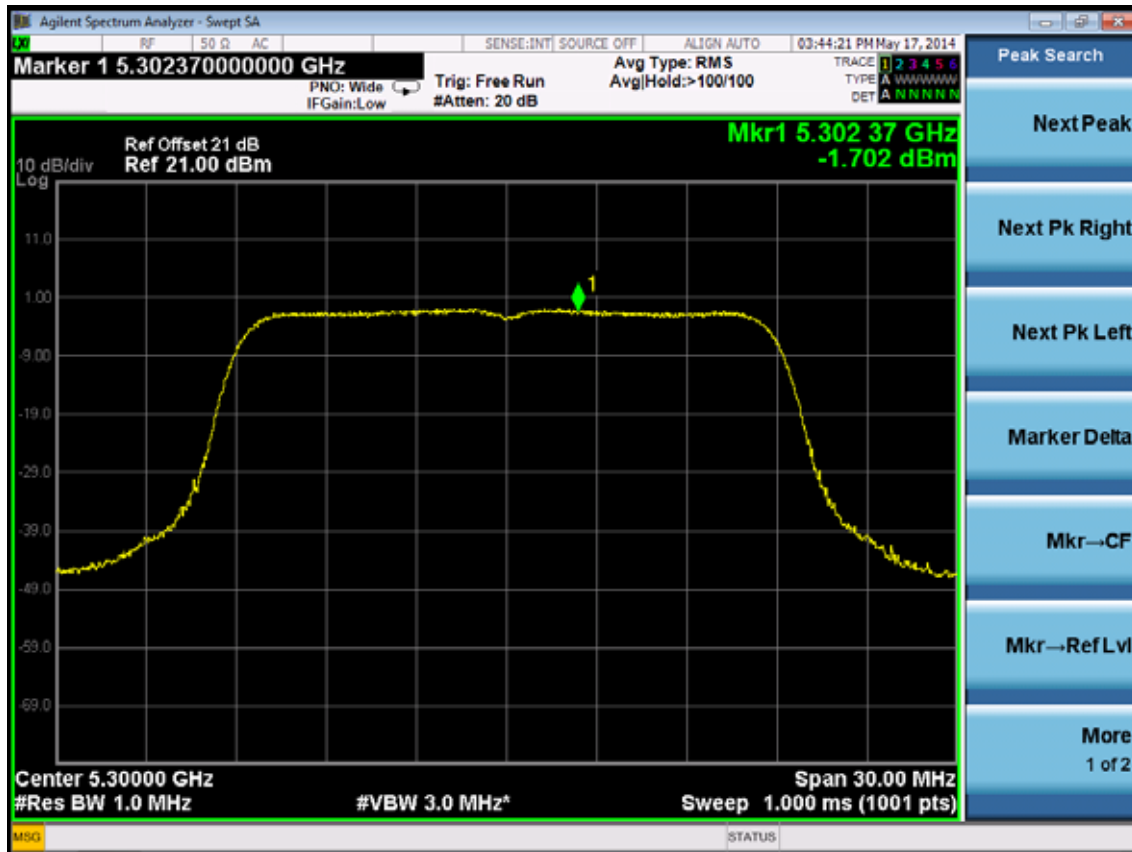


IEEE802.11ac VHT20

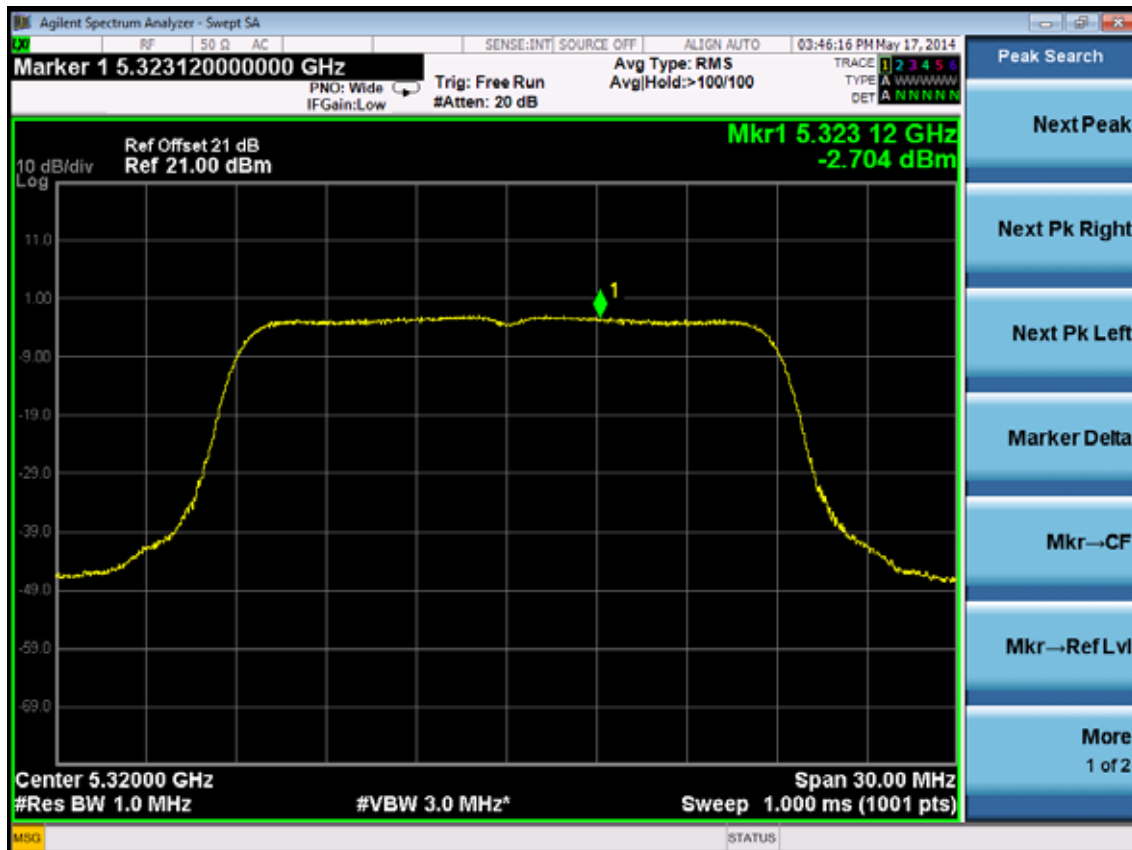
5260MHz



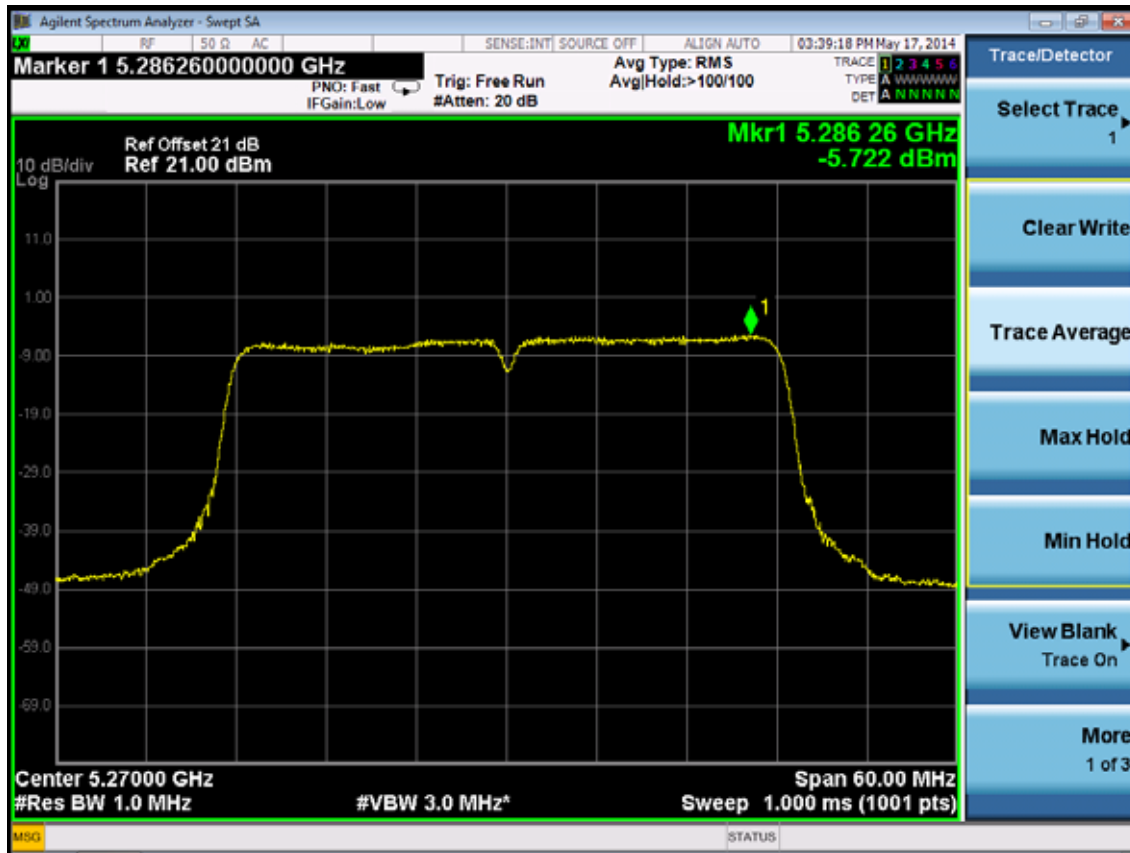
5300MHz



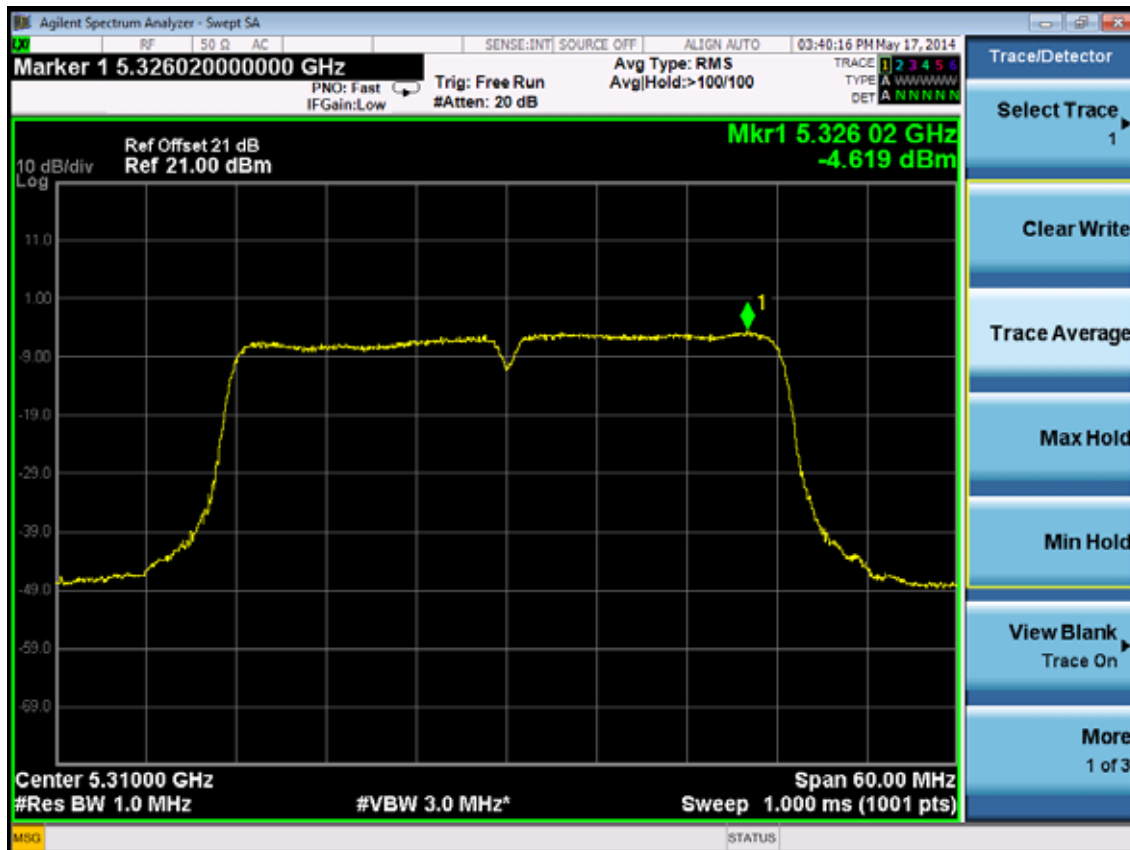
5320MHz



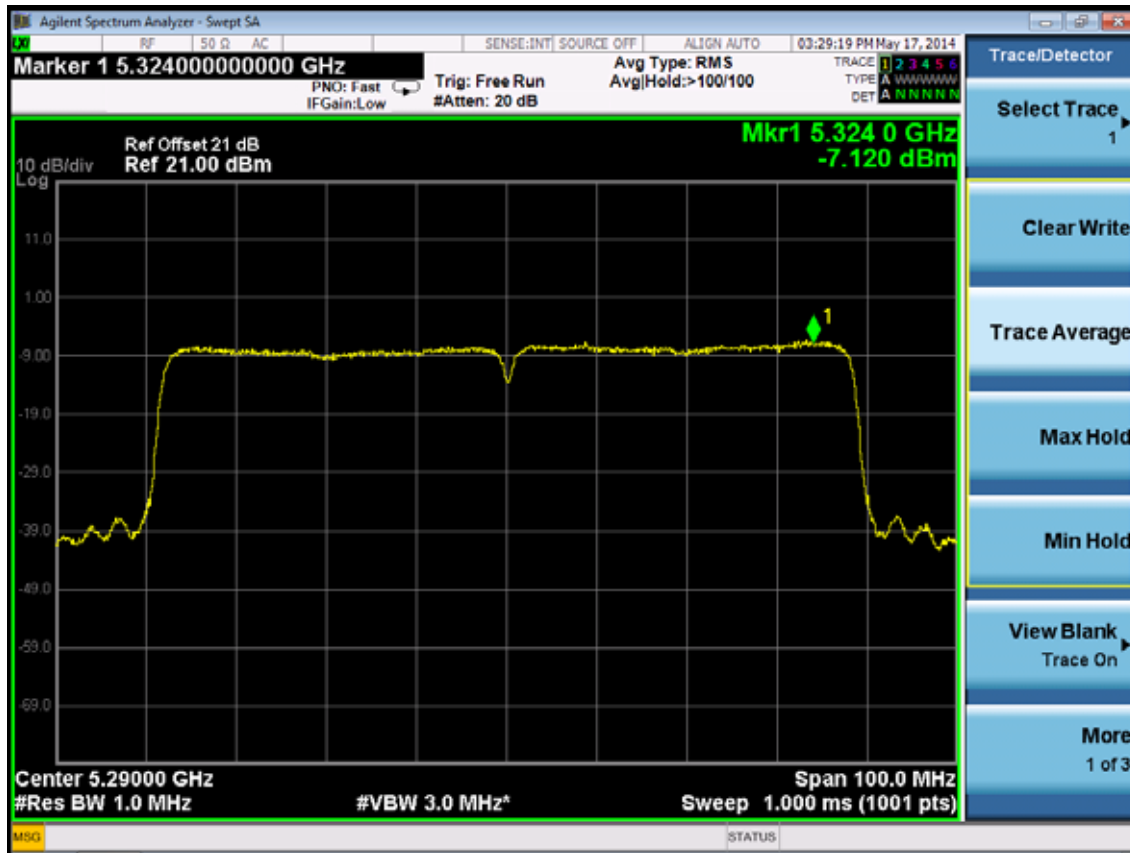
IEEE802.11ac VHT40 5270MHz



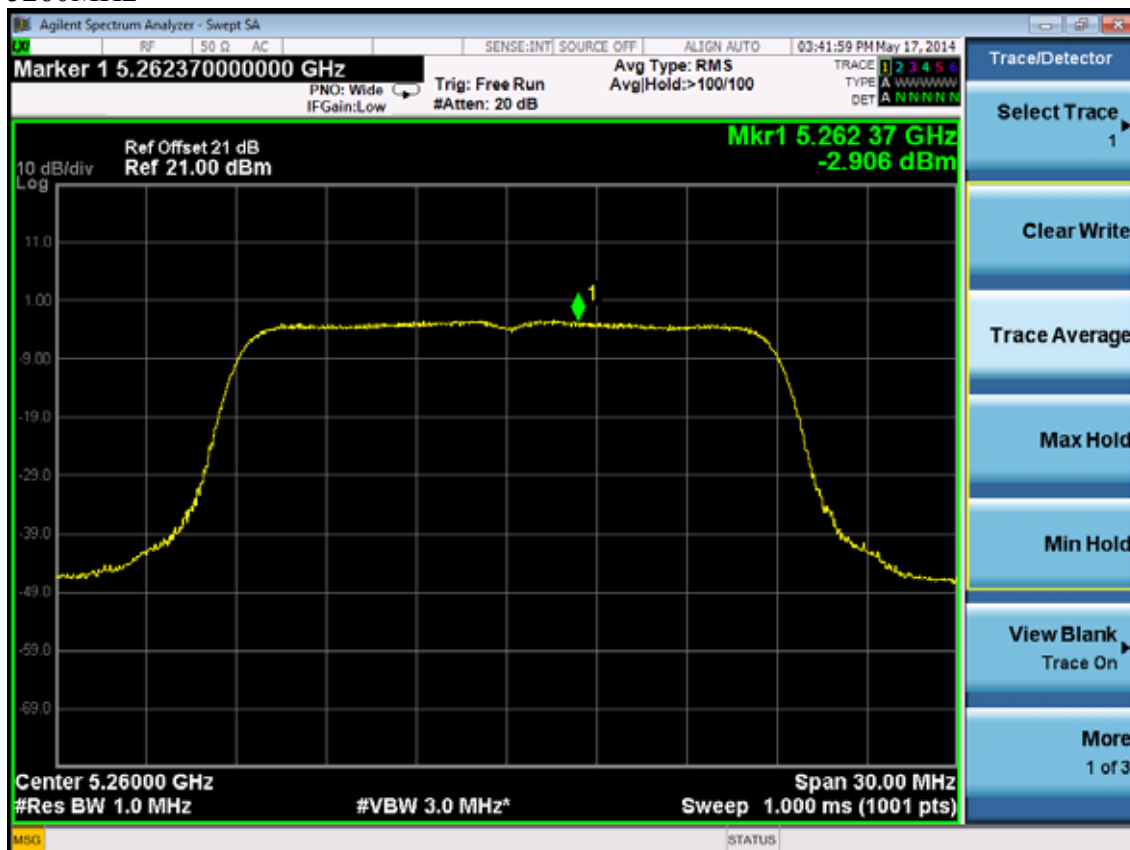
5310MHz



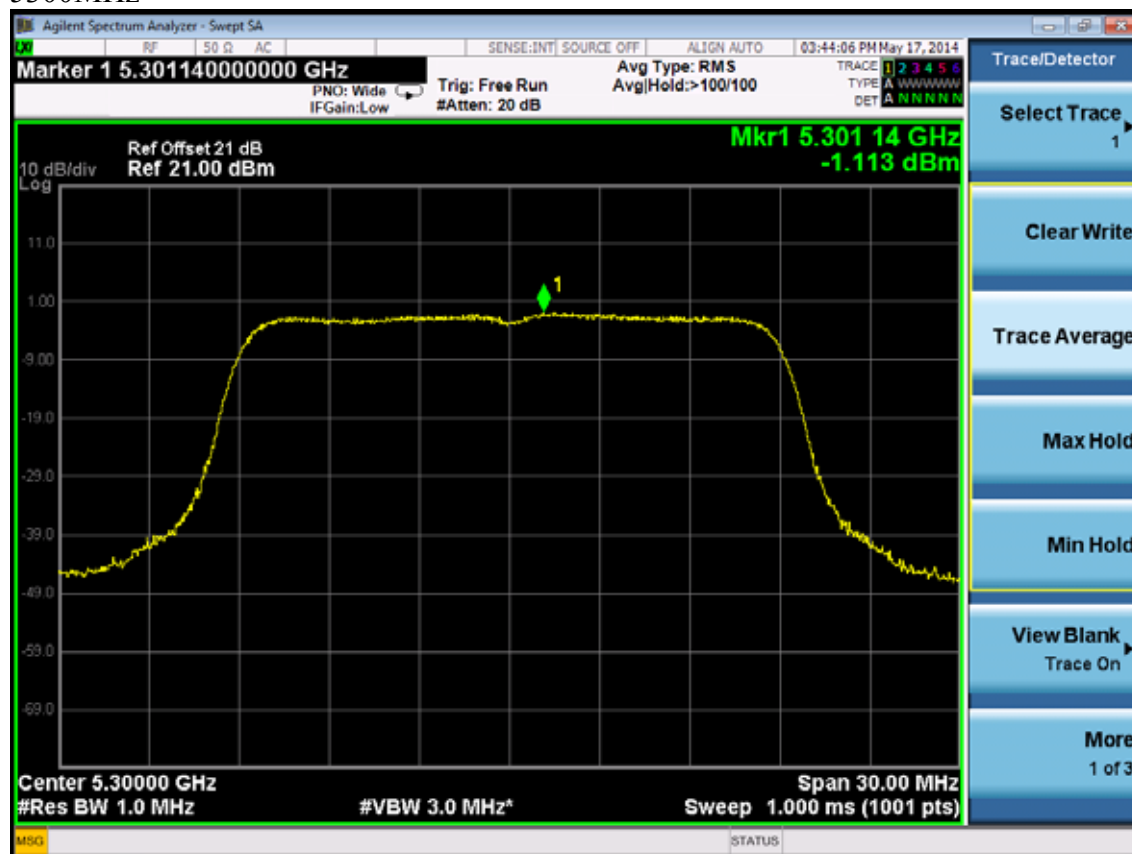
IEEE802.11ac VHT80 5290MHz



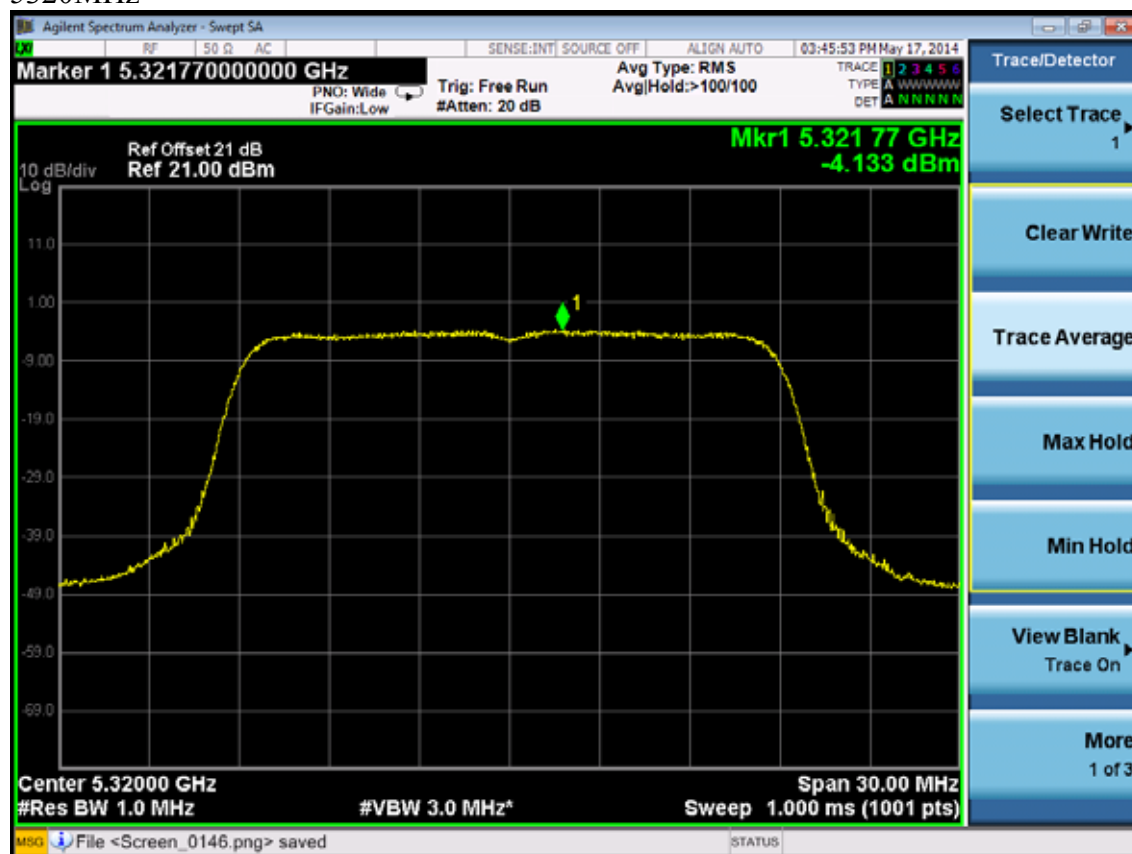
IEEE802.11nHT20 5260MHz



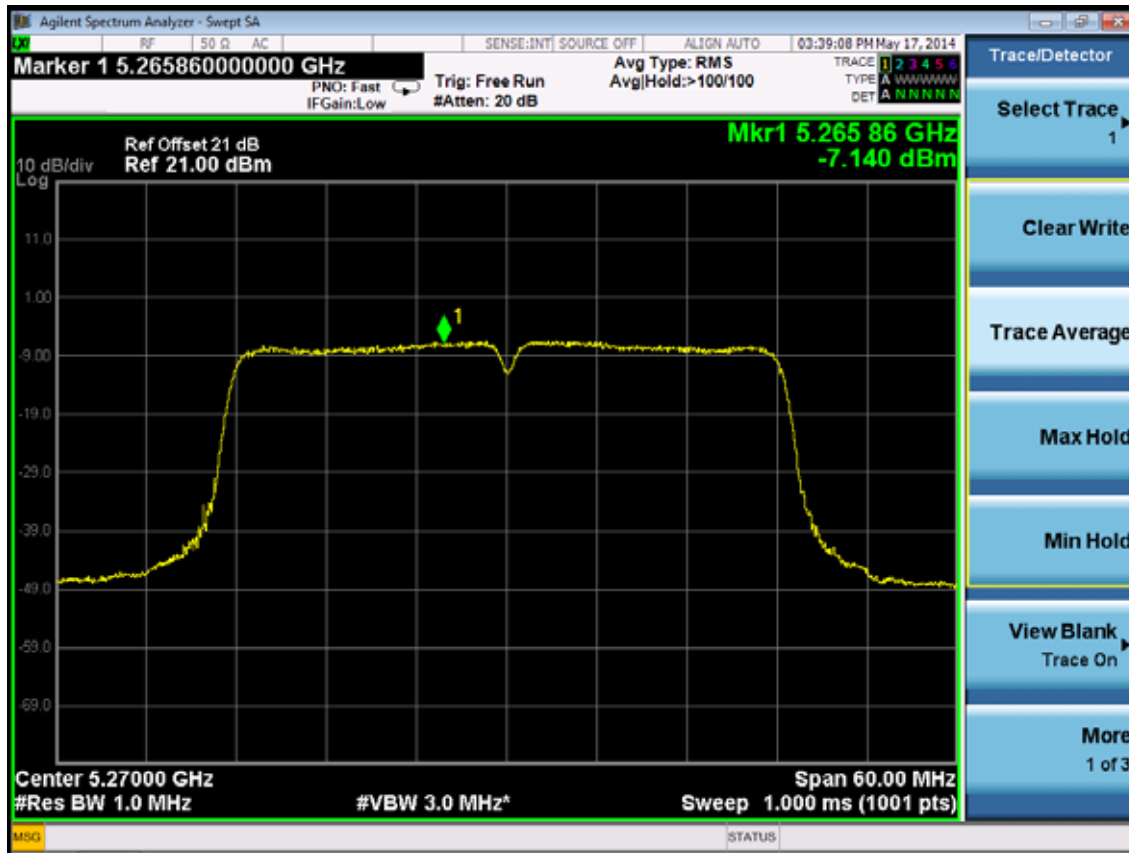
5300MHz



5320MHz



IEEE802.11nHT40 5270MHz



5310MHz

