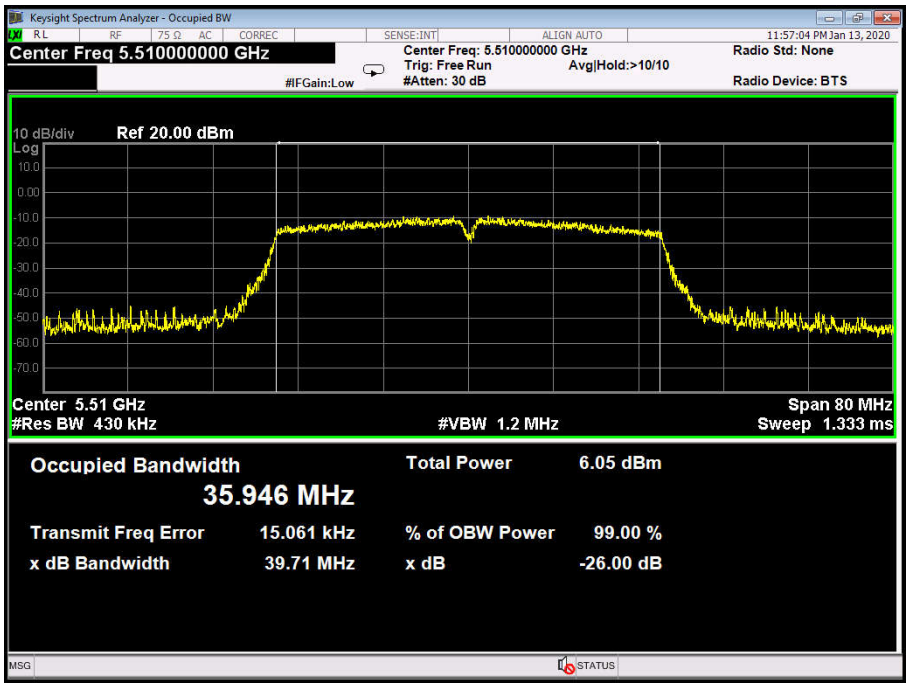
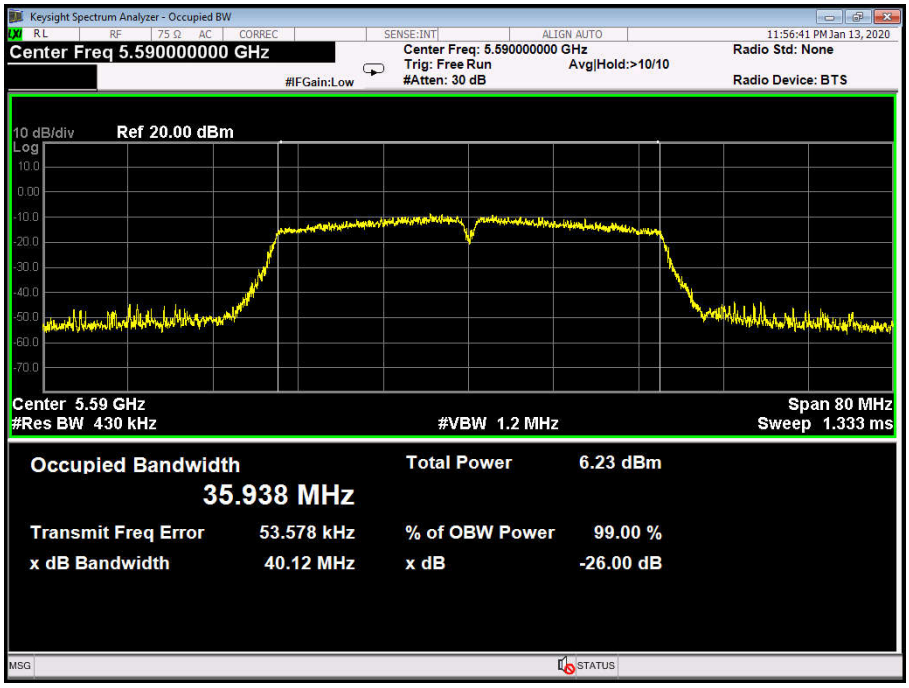
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11N(HT40) Mode (U-NII-2C)		
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
102	5510	39.71	36.946
118	5590	40.12	35.938
142	5670	40.23	35.918
802.11N(HT40) Mode			
5510 MHz			



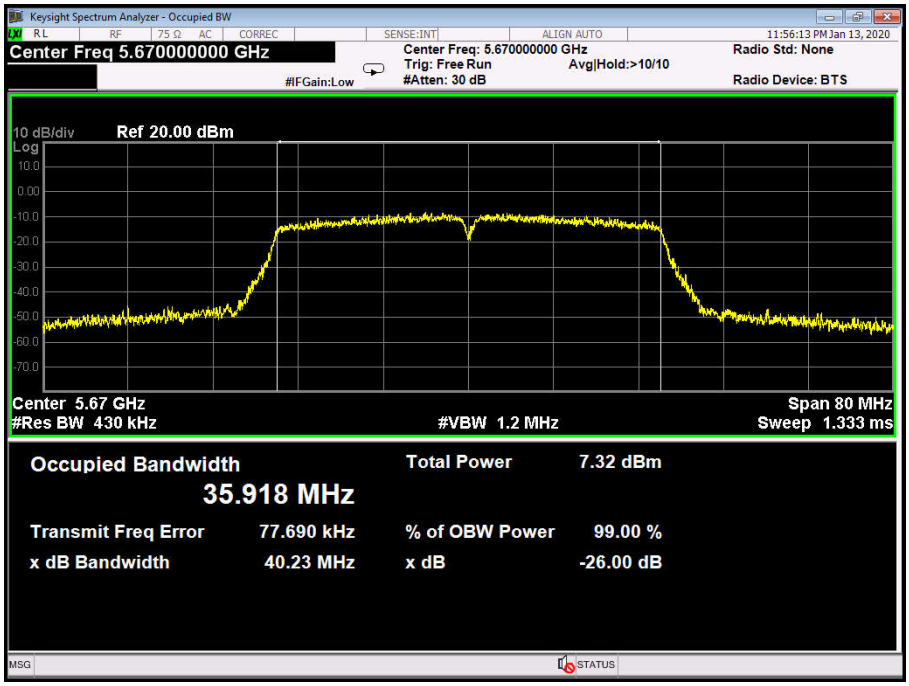
802.11N(HT40) Mode

5590 MHz



802.11N(HT40) Mode

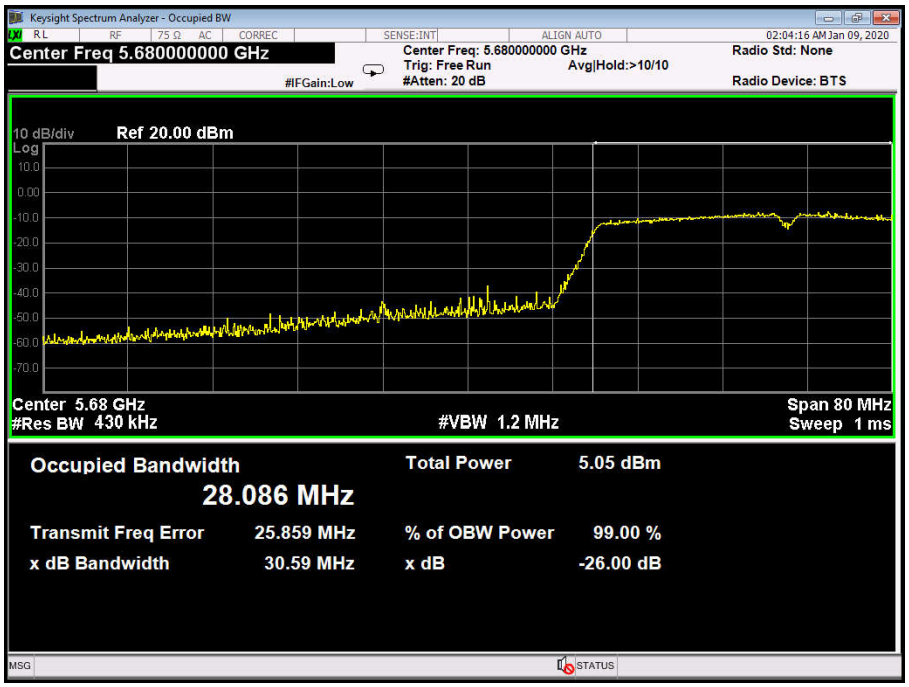
5670 MHz



Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	DC 3.8V			
Test Mode:	TX 802.11n(HT40) Mode (U-NII-2C)			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
142	5710	30.59	----	28.086
		----	3.270	4.0611

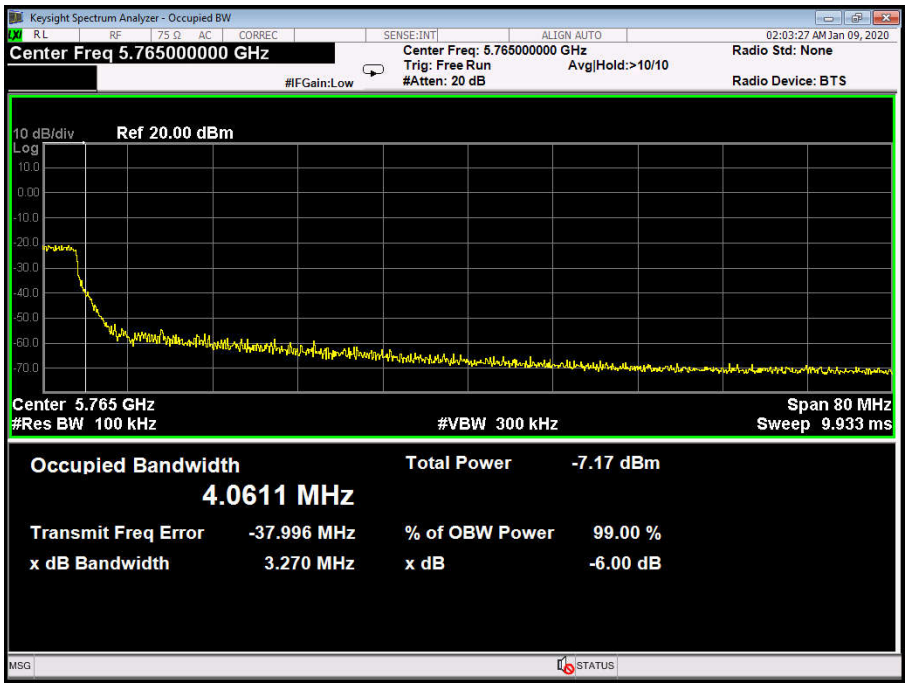
802.11n(HT40) Mode

5710 MHz Straddle 5.47-5.725GHz

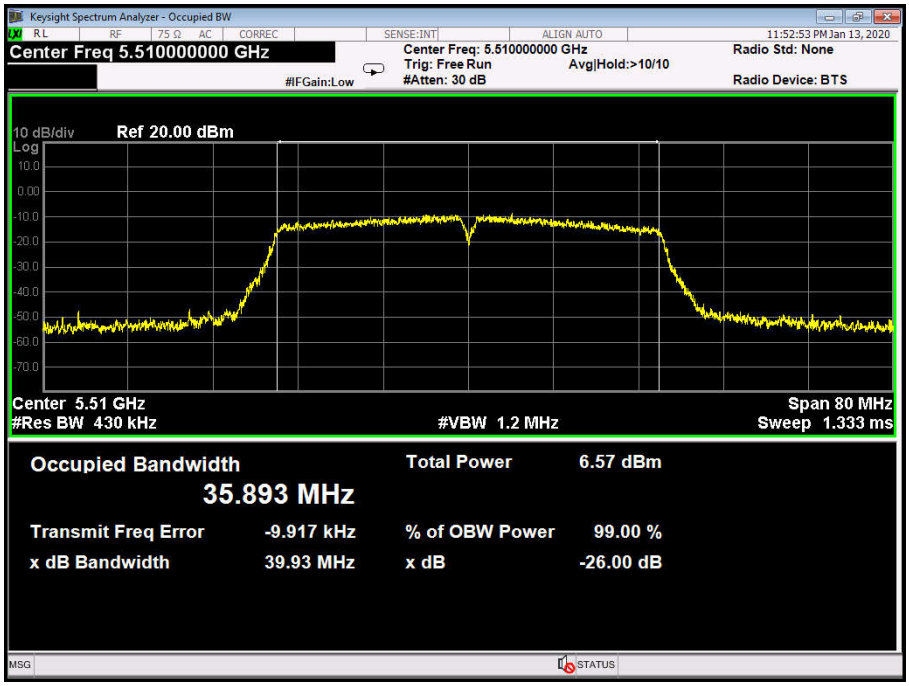


802.11n(HT40) Mode

5710 MHz Straddle 5.725-5.85GHz

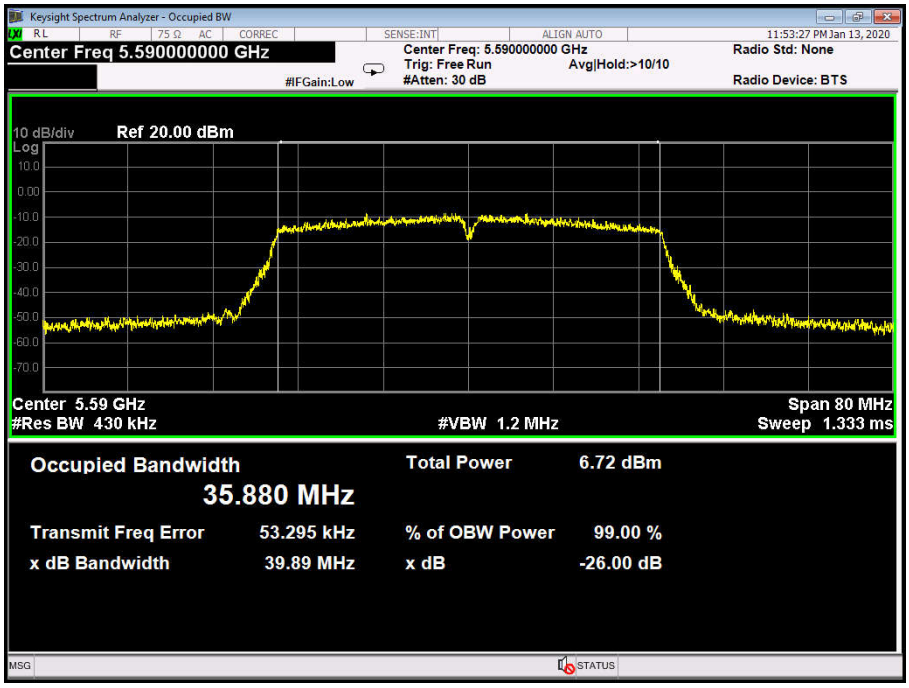


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11 ac(VHT40) Mode (U-NII-2C)		
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
102	5510	39.93	35.893
118	5590	39.89	35.880
142	5670	40.20	35.905
802.11ac(VHT40) Mode			
5510 MHz			



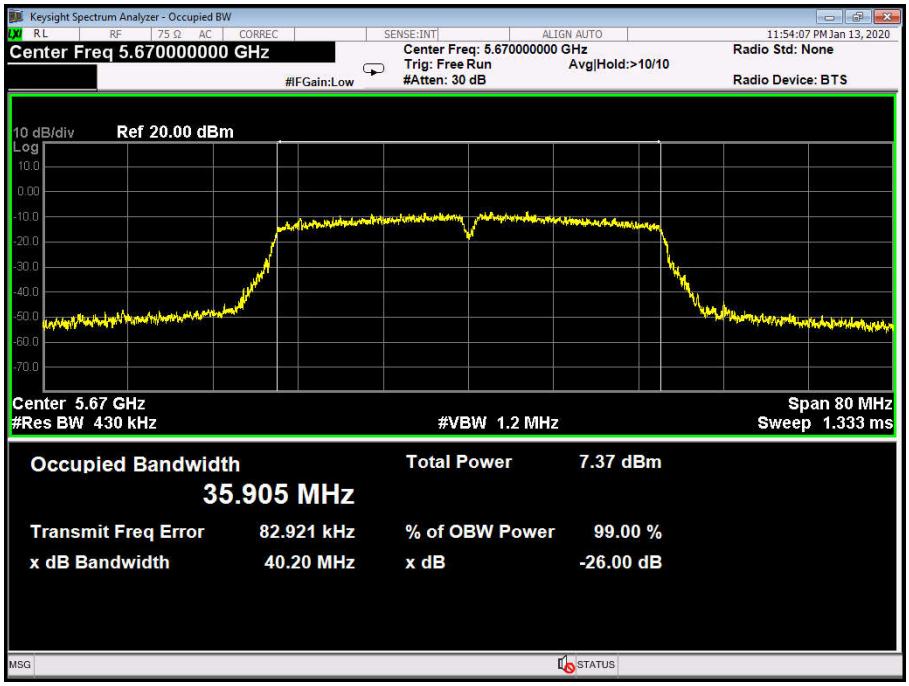
802.11ac(VHT40) Mode

5590 MHz



802.11ac(VHT40) Mode

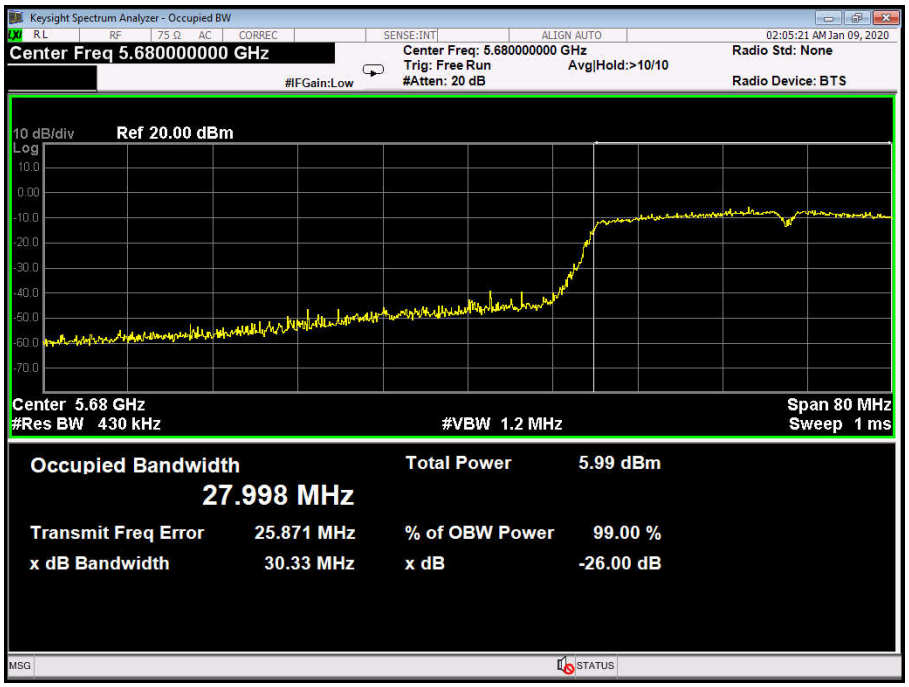
5670 MHz



Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	DC 3.8V			
Test Mode:	TX 802.11ac(VHT40) Mode (U-NII-2C)			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
142	5710	30.33	----	27.998
		----	3.243	3.9743

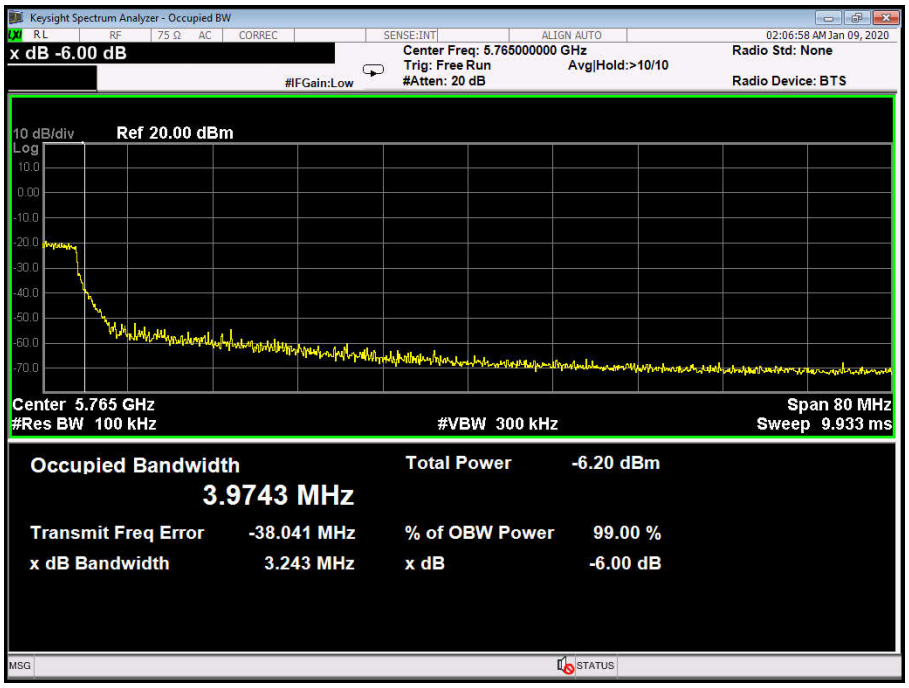
802.11ac(VHT40) Mode

5710 MHz Straddle 5.47-5.725GHz

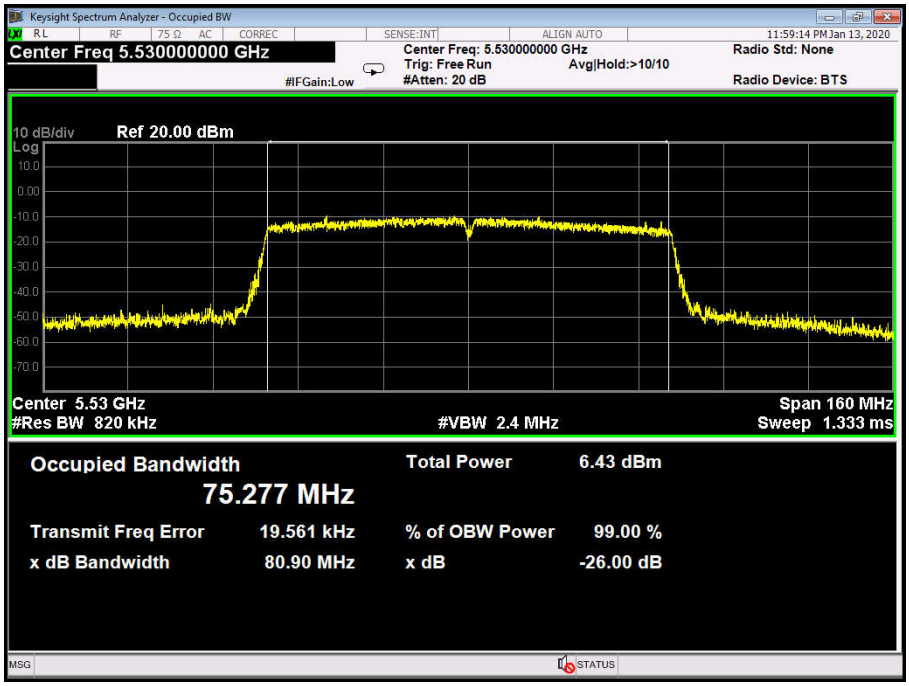


802.11ac(VHT40) Mode

5710 MHz Straddle 5.725-5.85GHz

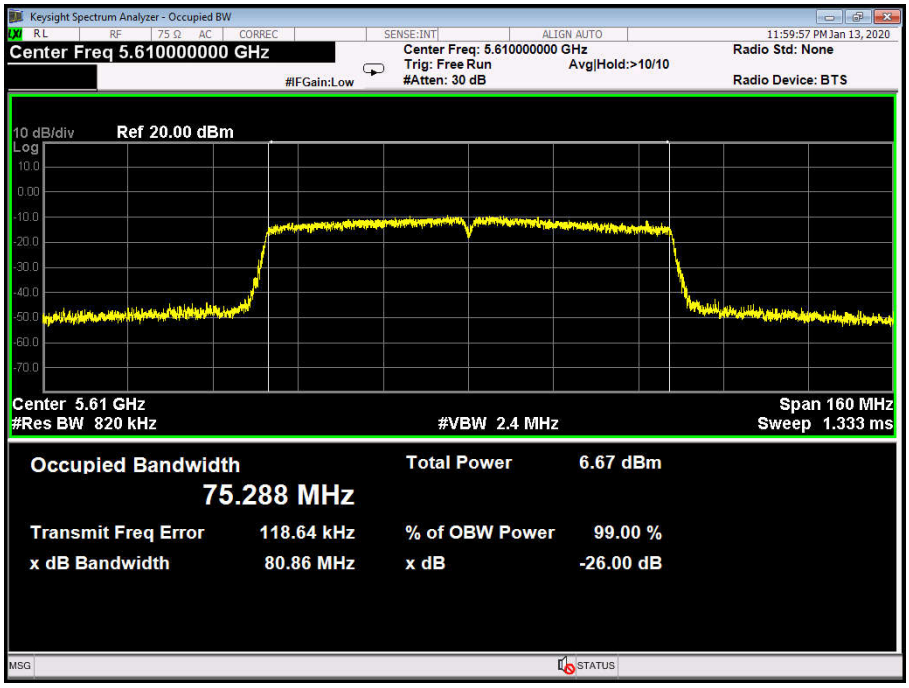


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11 ac(VHT80) Mode (U-NII-2C)		
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
106	5530	80.90	75.277
122	5610	80.86	75.288
138	5690	80.20	75.192
802.11ac(VHT80) Mode			
5530 MHz			



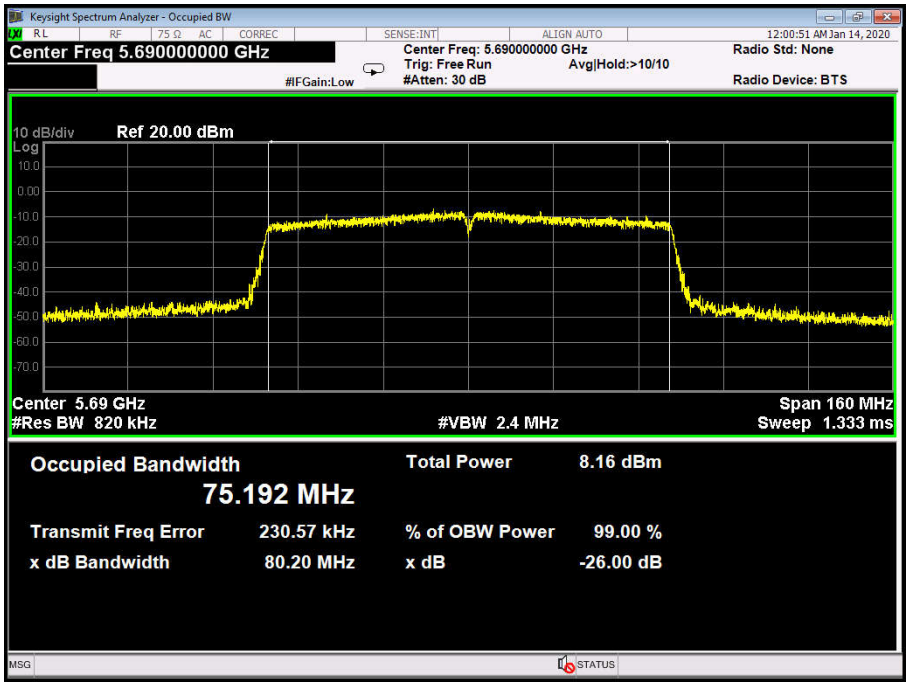
802.11ac(VHT80) Mode

5610 MHz



802.11ac(VHT80) Mode

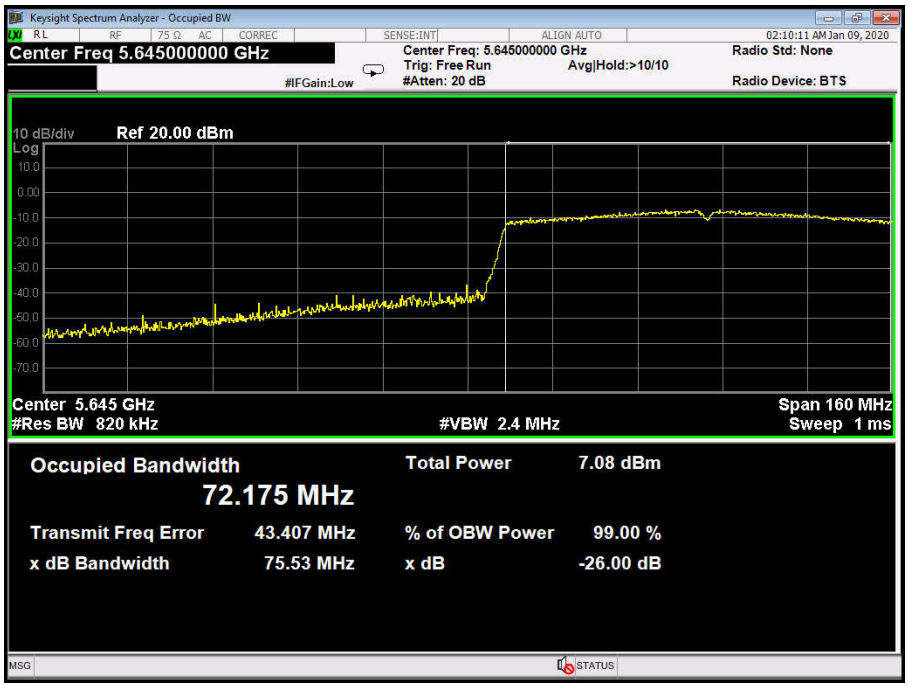
5690 MHz



Temperature:	25 ℃	Relative Humidity:	55%	
Test Voltage:	DC 3.8V			
Test Mode:	TX 802.11ac(HT80) Mode (U-NII-2C)			
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
142	5710	75.53	----	72.175
		----	3.283	5.2179

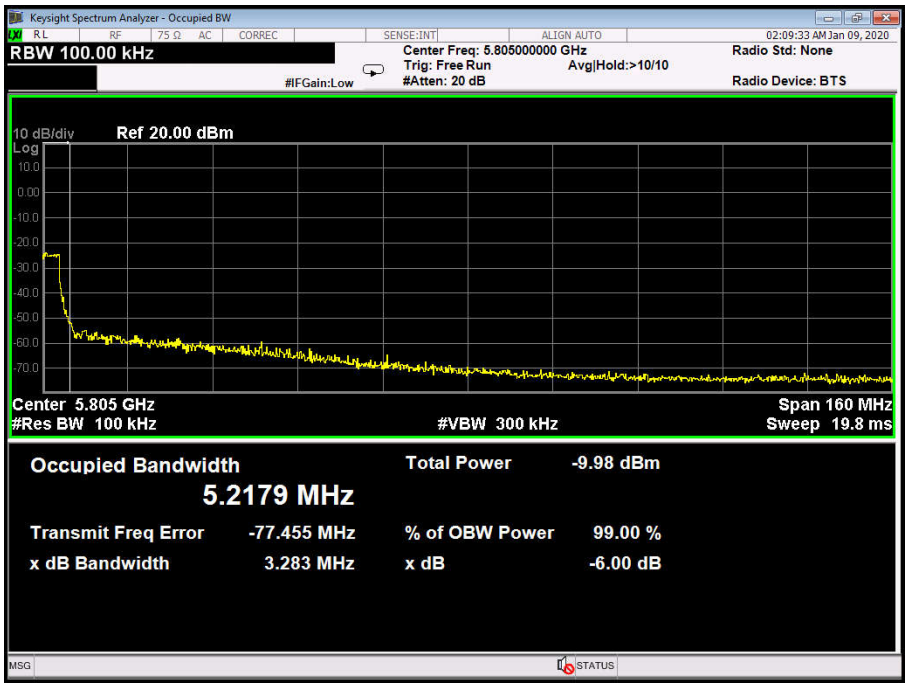
802.11ac(VHT80) Mode

5710 MHz Straddle 5.47-5.725GHz



802.11ac(VHT80) Mode

5690 MHz Straddle 5.725-5.85GHz

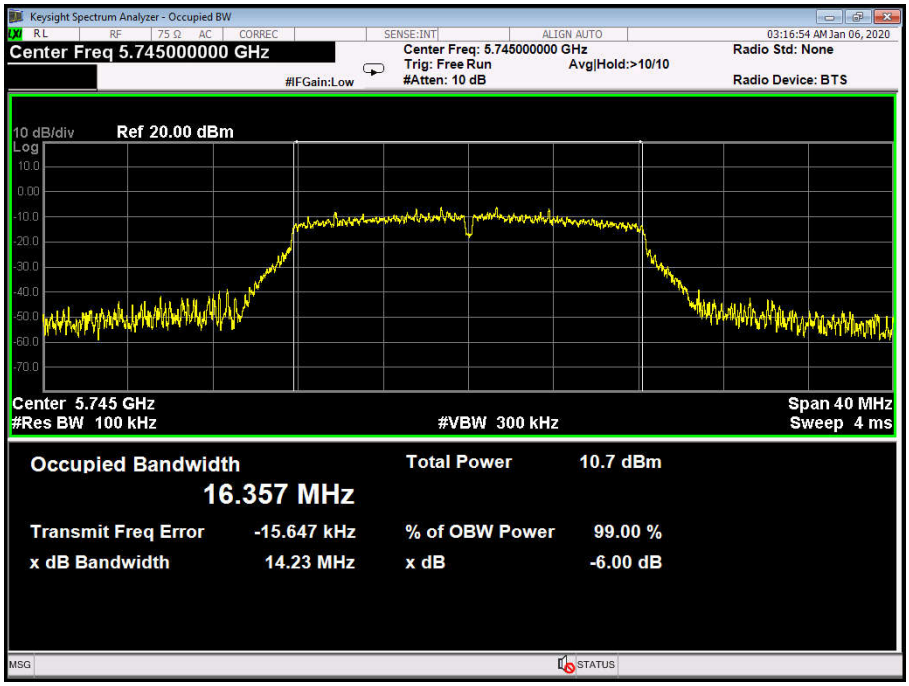


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11a Mode (U-NII-3)		

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	14.23	16.357
157	5785	14.80	16.335
165	5825	14.84	16.340

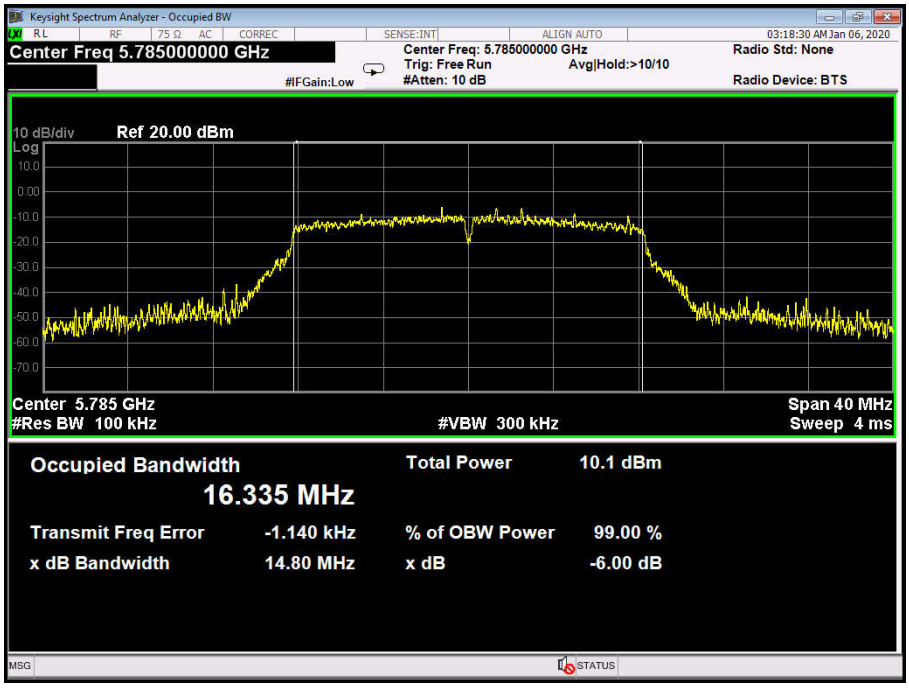
802.11a Mode

5745 MHz



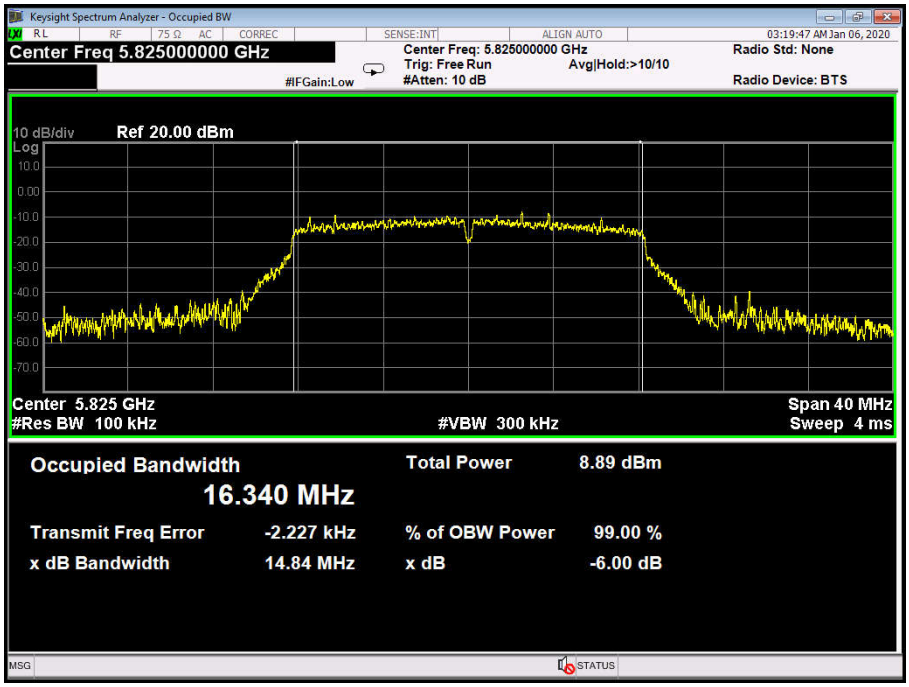
802.11a Mode

5785 MHz



802.11a Mode

5825 MHz

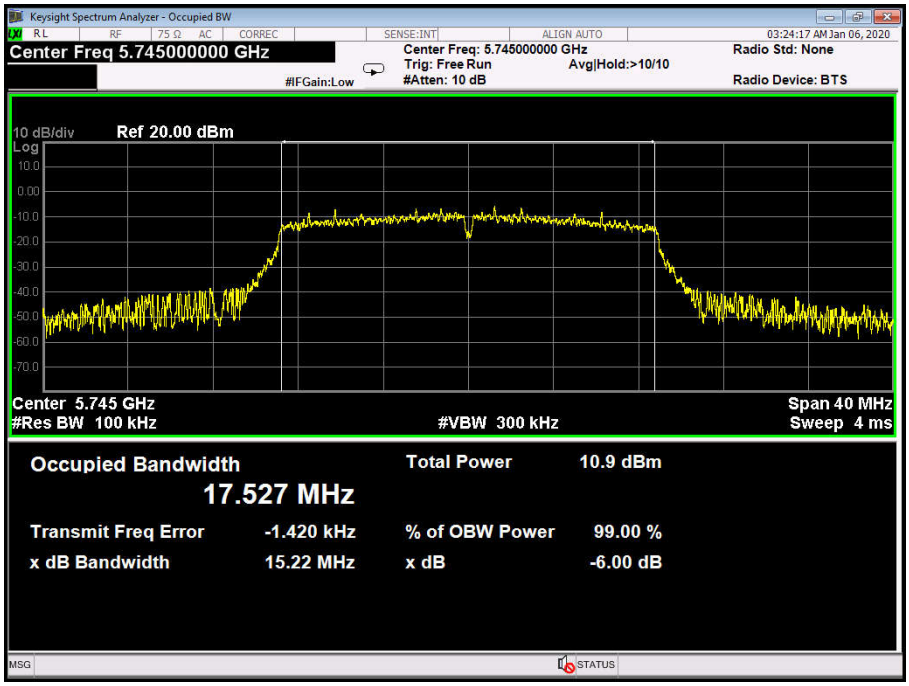


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11n(HT20) Mode (U-NII-3)		

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	15.22	17.527
157	5785	15.07	17.522
165	5825	14.04	17.535

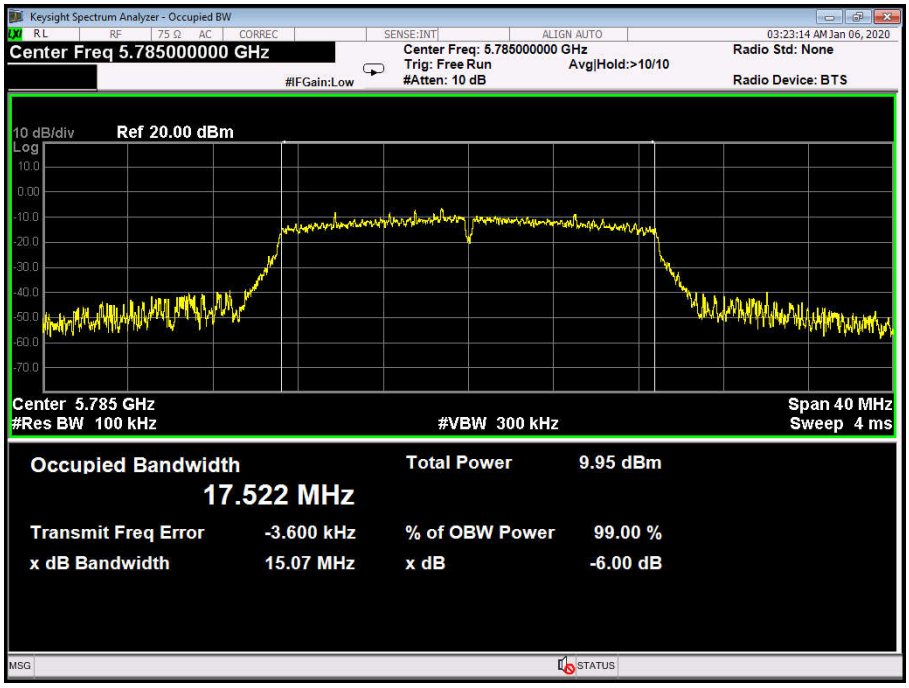
802.11n(HT20) Mode

5745 MHz



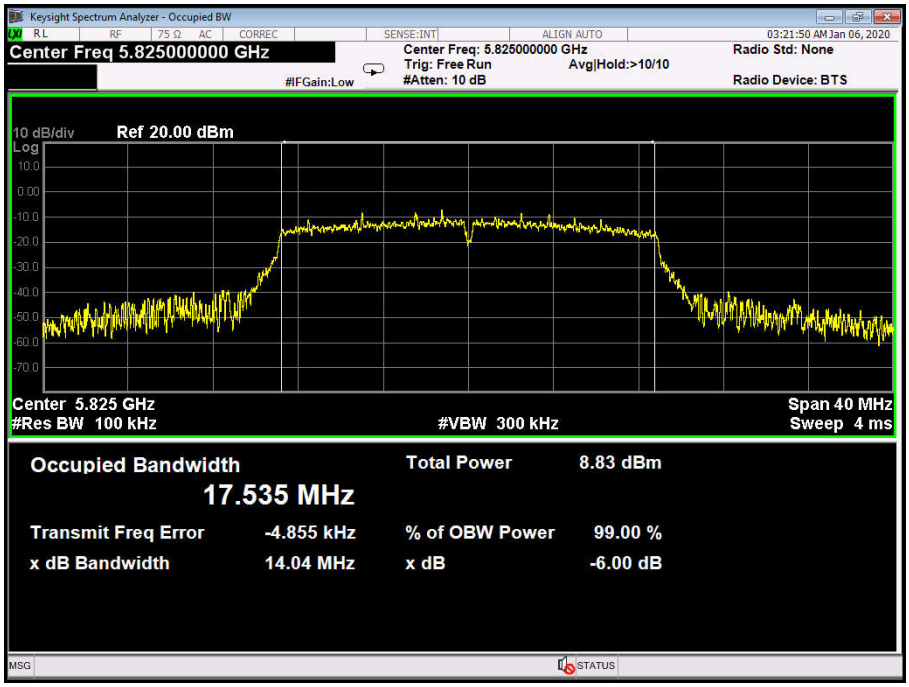
802.11n(HT20) Mode

5785 MHz

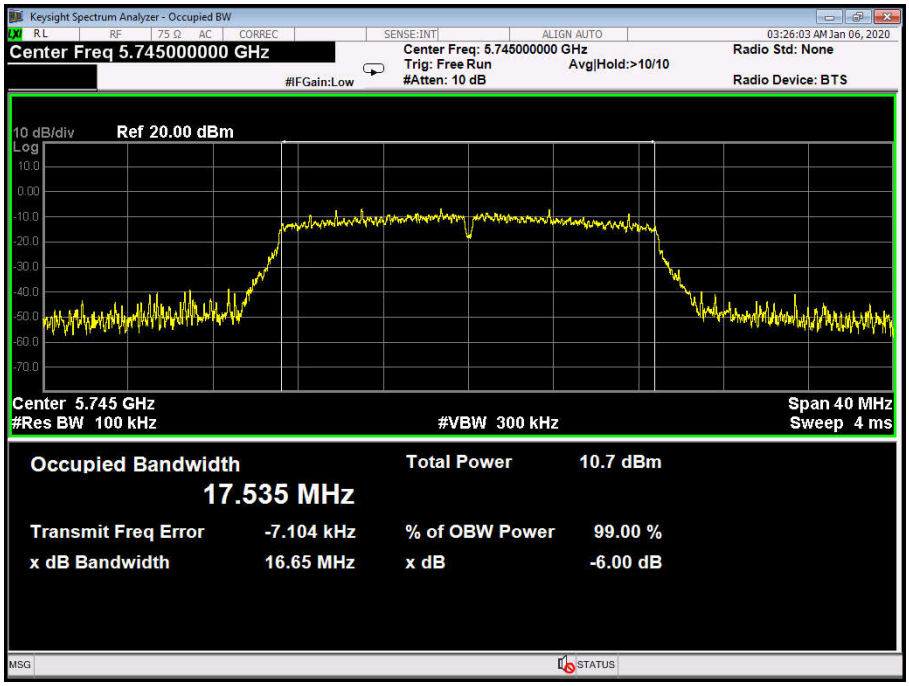


802.11n(HT20) Mode

5825 MHz

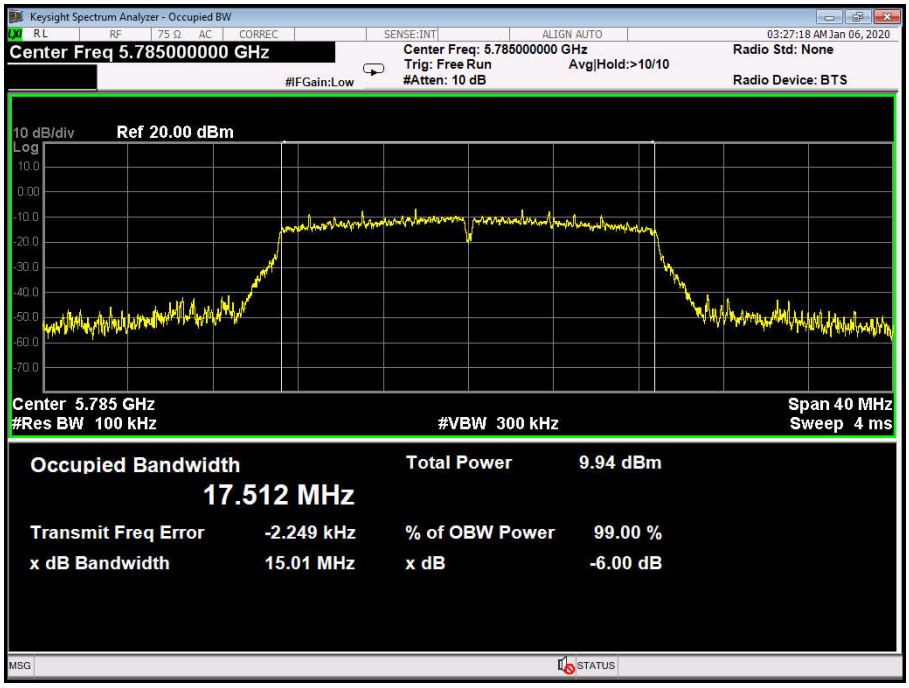


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11ac(VHT20) Mode (U-NII-3)		
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	16.65	17.535
157	5785	15.01	17.512
165	5825	15.37	17.537
802.11ac(VHT20) Mode			
5745 MHz			



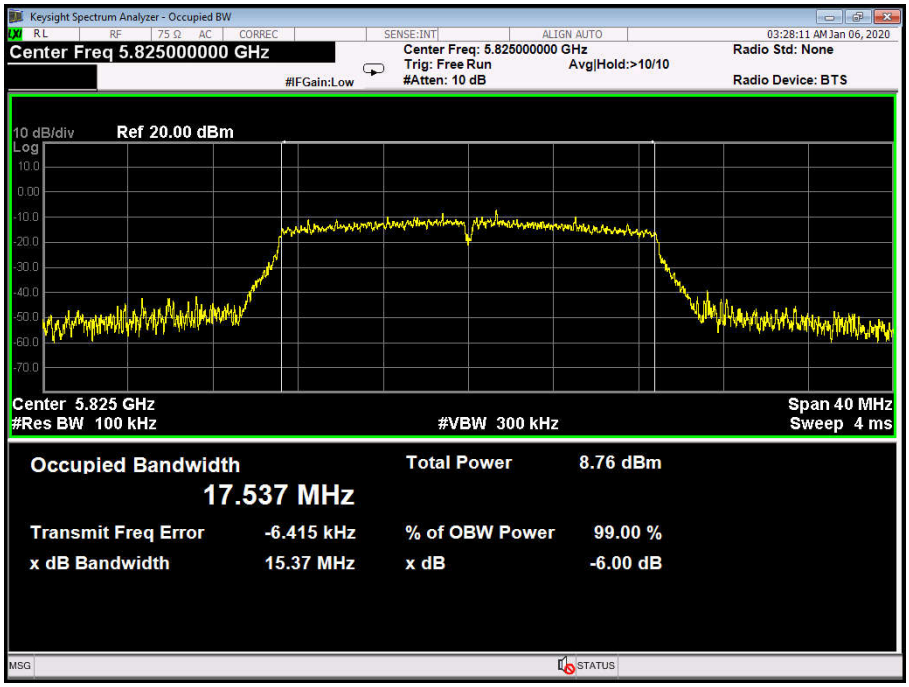
802.11ac(VHT20) Mode

5785 MHz



802.11ac(VHT20) Mode

5825 MHz

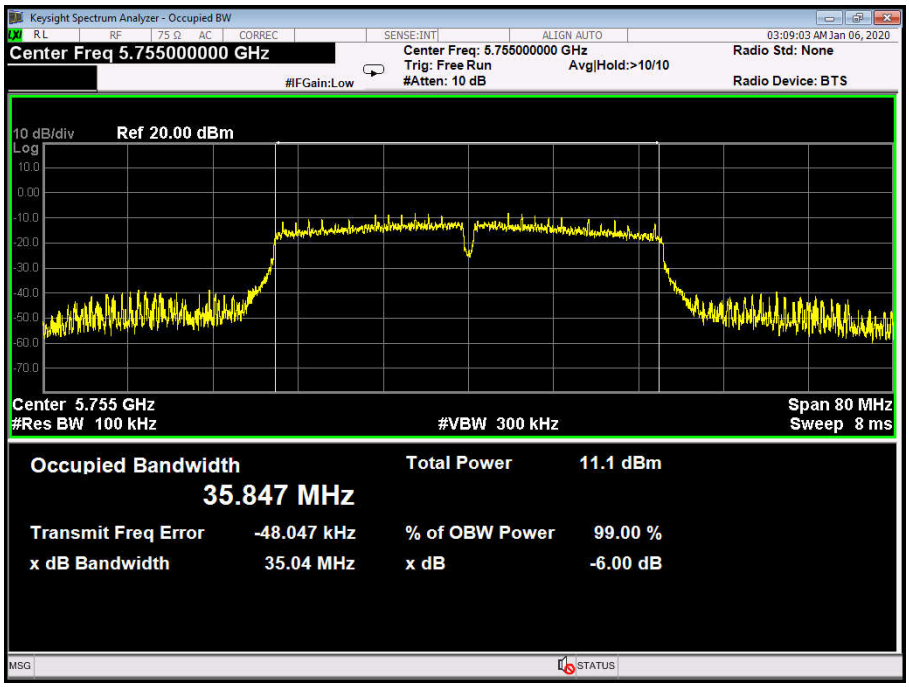


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11n(HT40) Mode (U-NII-3)		

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
151	5755	35.04	35.847
159	5795	33.69	35.825

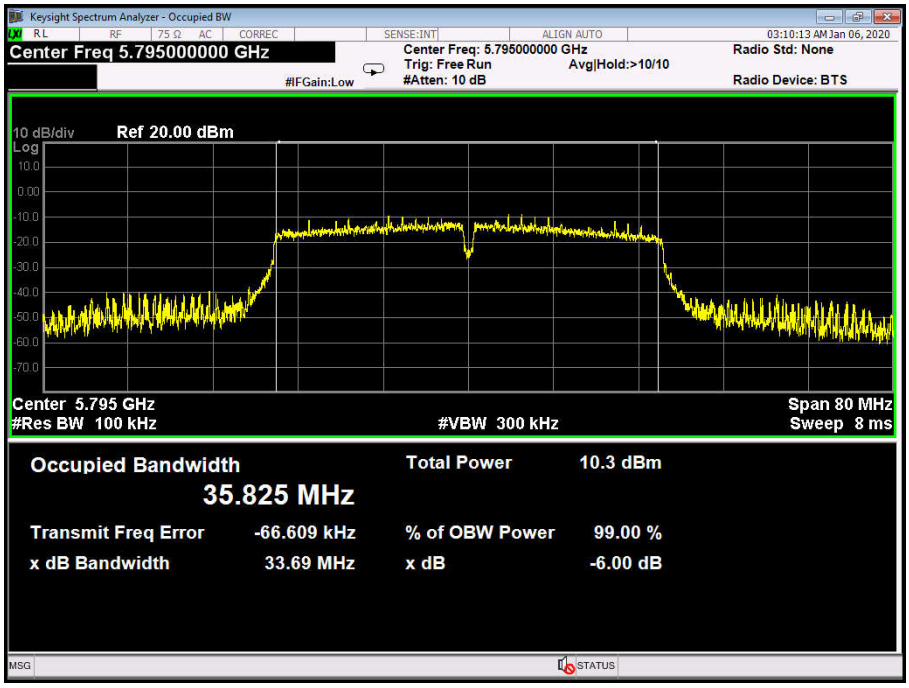
802.11n(HT40) Mode

5755 MHz



802.11n(HT40) Mode

5795 MHz

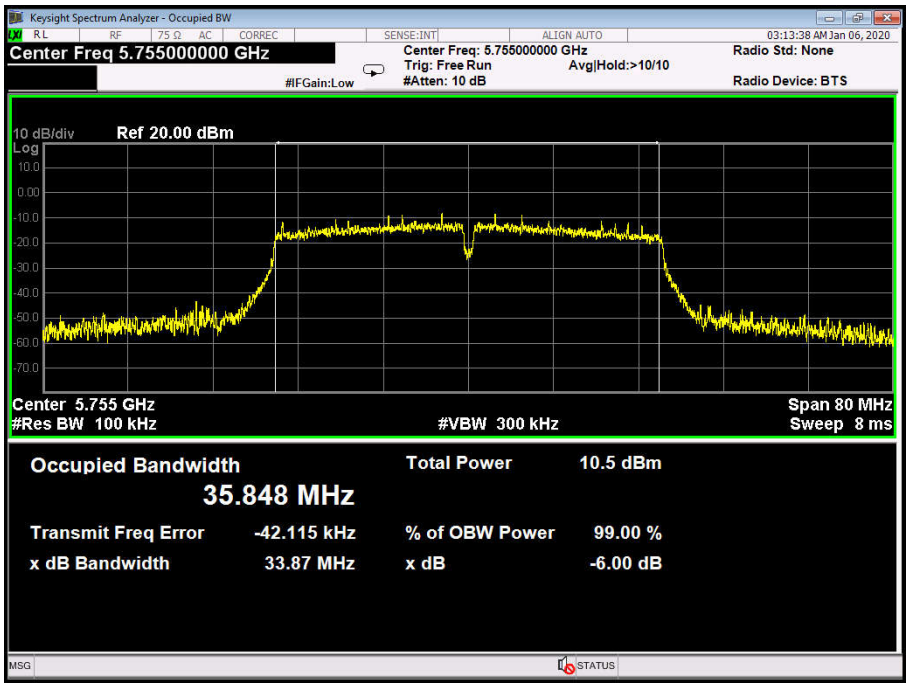


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11ac(VHT40) Mode (U-NII-3)		

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
151	5755	33.87	35.848
159	5795	33.87	35.788

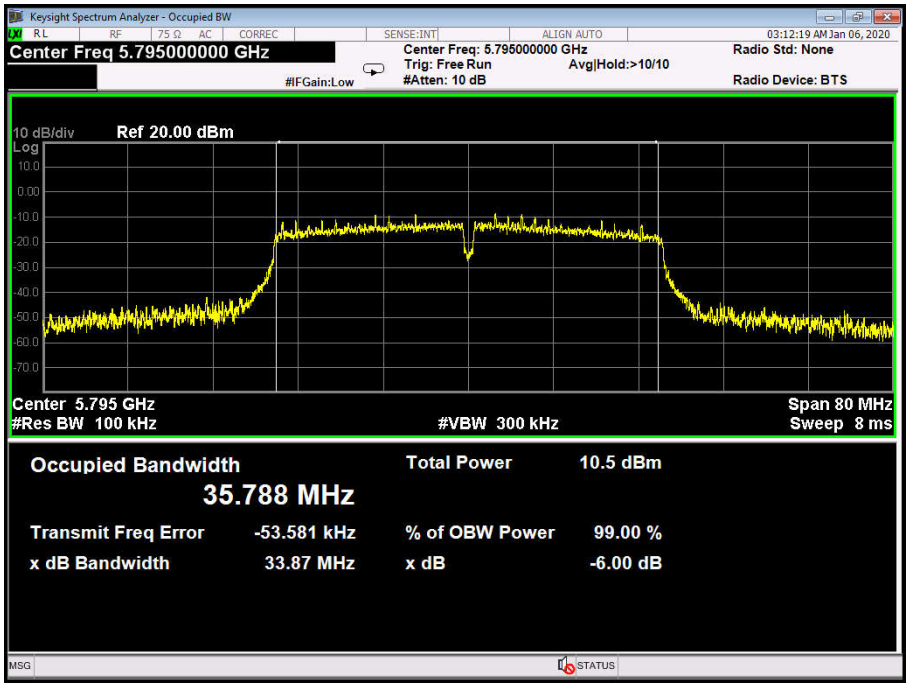
802.11ac(VHT40) Mode

5755 MHz

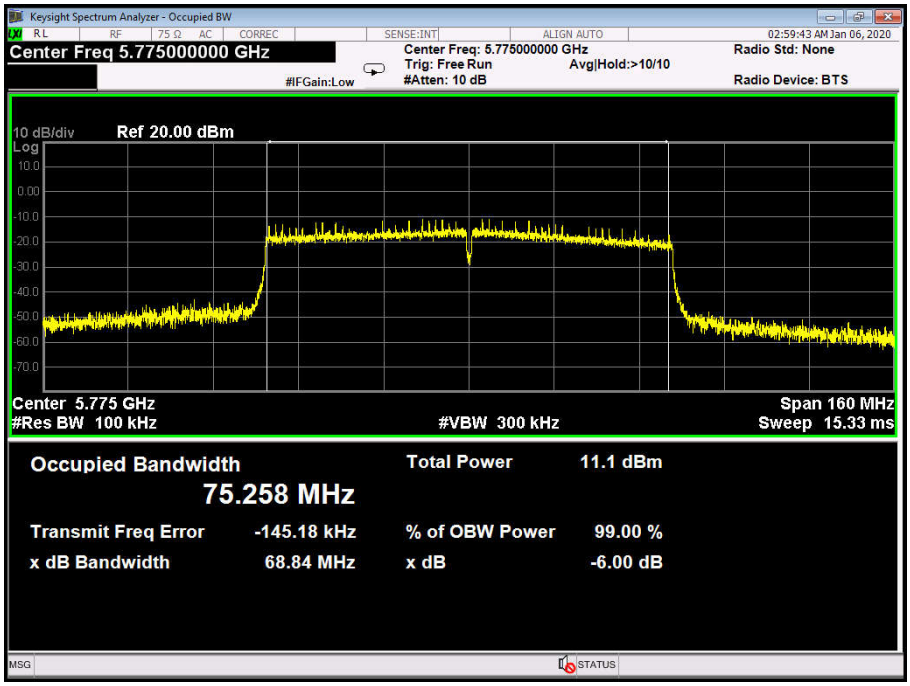


802.11ac(VHT40) Mode

5795 MHz



Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		
Test Mode:	TX 802.11ac(HT80) Mode (U-NII-3)		
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
155	5775	75.258	68.84
802.11ac(VHT80) Mode			
5775 MHz			



Attachment E--AVG Output Power Test Data

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		

U-NII-1

Test Mode	Frequency (MHz)	Test Data			Limit (dBm)
		Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	
802.11a	5180	13.57	0	13.57	24
	5200	13.37	0	13.37	
	5240	13.62	0	13.62	
802.11n (HT20)	5180	13.28	0	13.28	
	5200	13.22	0	13.22	
	5240	13.54	0	13.54	
802.11ac (VHT20)	5180	13.05	0	13.05	
	5200	13.35	0	13.35	
	5240	13.55	0	13.55	
802.11n (HT40)	5190	13.18	0	13.18	
	5230	13.56	0	13.56	
802.11 ac(VHT40)	5190	13.04	0	13.04	
	5230	13.66	0	13.66	
802.11 ac(VHT80)	5210	12.34	0	12.34	

Result: PASS

Remark:
the Directional Gain=2.92dBi＜6 dBi.
So P_{out} =P_{limit}=24dBm

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		

U-NII-2A

Test Mode	Frequency (MHz)	Test Data			Limit (dBm)
		Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	
802.11a	5260	13.30	0	13.30	24
	5280	13.46	0	13.46	
	5320	11.37	0	11.37	
802.11n (HT20)	5260	13.17	0	13.17	
	5280	12.74	0	12.74	
	5320	12.22	0	12.22	
802.11ac (VHT20)	5260	12.89	0	12.89	
	5280	11.41	0	11.41	
	5320	12.90	0	12.90	
802.11n (HT40)	5270	12.79	0	12.79	
	5310	12.27	0	12.27	
802.11 ac(VHT40)	5270	13.12	0	13.12	
	5310	12.50	0	12.50	
802.11 ac(VHT80)	5290	12.28	0	12.28	

Result: PASS

Remark:
the Directional Gain=2.92dBi＜6 dBi.
So P_{out} =P_{limit}=24dBm

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		

U-NII-2C

Test Mode	Frequency (MHz)	Test Data			Limit (dBm)
		Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	
802.11a	5500	13.02	0	13.02	30
	5600	10.79	0	10.79	
	5720	12.30	0	12.30	
802.11n (HT20)	5500	12 .83	0	12 .83	
	5600	10.49	0	10.49	
	5720	12.10	0	12.10	
802.11ac (VHT20)	5500	12.81	0	12.81	
	5600	10.48	0	10.48	
	5720	12.10	0	12.10	
802.11n (HT40)	5510	12.77	0	12.77	
	5590	10.60	0	10.60	
	5710	12.28	0	12.28	
802.11 ac(VHT40)	5510	12.75	0	12.75	
	5590	10.55	0	10.55	
	5710	11.96	0	11.96	
802.11 ac(VHT80)	5530	11.71	0	11.71	
	5610	10.32	0	10.32	
	5690	11.21	0	11.21	

Result: PASS

Remark:
the Directional Gain=2.92dBi＜6 dBi.
So P_{out} =P_{limit}=30dBm

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		

U-NII-2C

Test Mode	Frequency (MHz)	Test Data			Limit (dBm)
		Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	
802.11a 5720MHz Straddle 5.47-5.725GHz		10.56	0	10.56	**24**
802.11a 5720MHz Straddle 5.725-5.85GHz		2.91	0	2.91	**30**
802.11n(HT20) 5720MHz Straddle 5.47-5.725GHz		10.58	0	10.58	**24**
802.11n(HT20) 5720MHz Straddle 5.725-5.85GHz		3.01	0	3.01	**30**
802.11ac(VHT20) 5720MHz Straddle 5.47-5.725GHz		10.20	0	10.20	**24**
802.11ac(VHT20) 5720MHz Straddle 5.725-5.85GHz		3.13	0	3.13	**30**
802.11n(HT40) 5710MHz Straddle 5.47-5.725GHz		10.96	0	10.96	**24**
802.11n(HT40) 5710MHz Straddle 5.725-5.85GHz		2.65	0	2.65	**30**
802.11ac(VHT40) 5710MHz Straddle 5.47-5.725GHz		10.32	0	10.32	**24**
802.11ac(VHT40) 5710MHz Straddle 5.725-5.85GHz		2.38	0	2.38	**30**
802.11ac(VHT80) 5690MHz Straddle 5.47-5.725GHz		9.20	0	9.20	**24**
802.11ac(VHT80) 5690MHz Straddle 5.725-5.85GHz		1.54	0	1.54	**30**
Result: PASS					

Remark:
the Directional Gain=2.92dBi＜6 dBi.
So P_{out} =P_{limit}

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	DC 3.8V		

U-NII-3

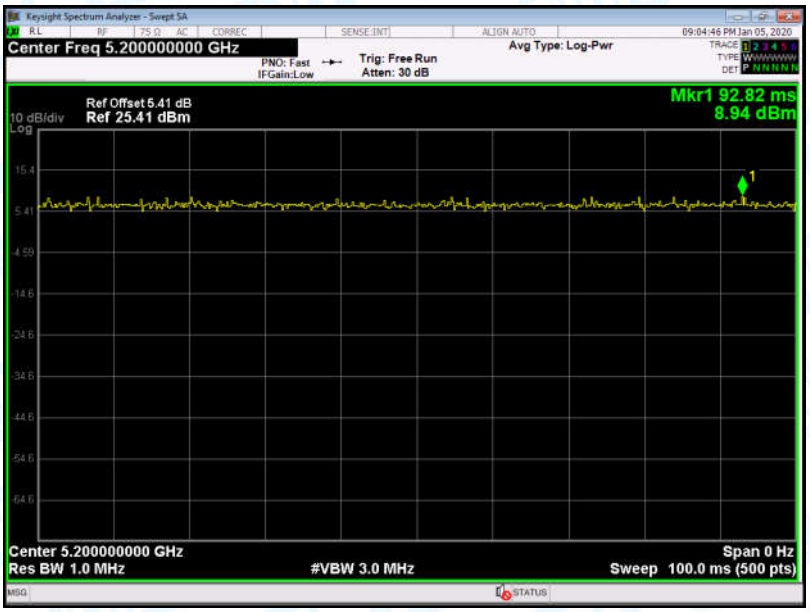
Test Mode	Frequency (MHz)	Test Data			Limit (dBm)
		Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	
802.11a	5745	12.70	0	12.70	24
	5785	12.45	0	12.45	
	5825	11.06	0	11.06	
802.11n (HT20)	5745	12.61	0	12.61	
	5785	12.32	0	12.32	
	5825	10.80	0	10.80	
802.11ac (VHT20)	5745	12.73	0	12.73	
	5785	12.05	0	12.05	
	5825	12.62	0	12.62	
802.11n (HT40)	5755	12.11	0	12.11	
	5795	10.96	0	10.96	
802.11 ac(VHT40)	5755	12.73	0	12.73	
	5795	12.09	0	12.09	
802.11 ac(VHT80)	5775	11.91	0	11.91	

Result: PASS

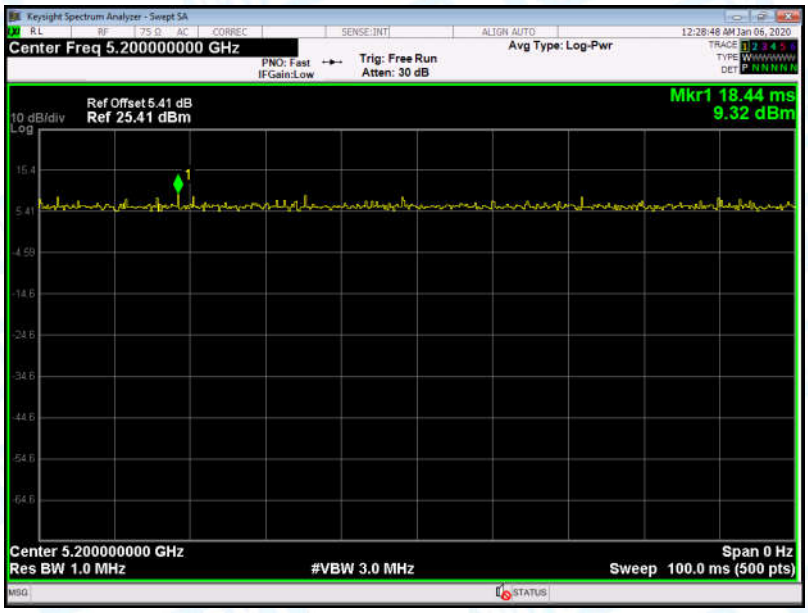
Remark:
the Directional Gain=2.92dBi＜6 dBi.
So P_{out} =P_{limit}=24dBm

Test Mode		Duty cycle
U-NII-1	802.11 a	>98%
	802.11 n(HT20)	
	802.11 ac(VHT20)	
	802.11 n(HT40)	
	802.11 ac(VHT40)	
	802.11 ac(VHT80)	
U-NII-2A	802.11 a	
	802.11 n(HT20)	
	802.11 ac(VHT20)	
	802.11 n(HT40)	
	802.11 ac(VHT40)	
	802.11 ac(VHT80)	
U-NII-2C	802.11 a	
	802.11 n(HT20)	
	802.11 ac(VHT20)	
	802.11 n(HT40)	
	802.11 ac(VHT40)	
	802.11 ac(VHT80)	
U-NII-3	802.11 a	
	802.11 n(HT20)	
	802.11 ac(VHT20)	
	802.11 n(HT40)	
	802.11 ac(VHT40)	
	802.11 ac(VHT80)	
Please see the next plots.		

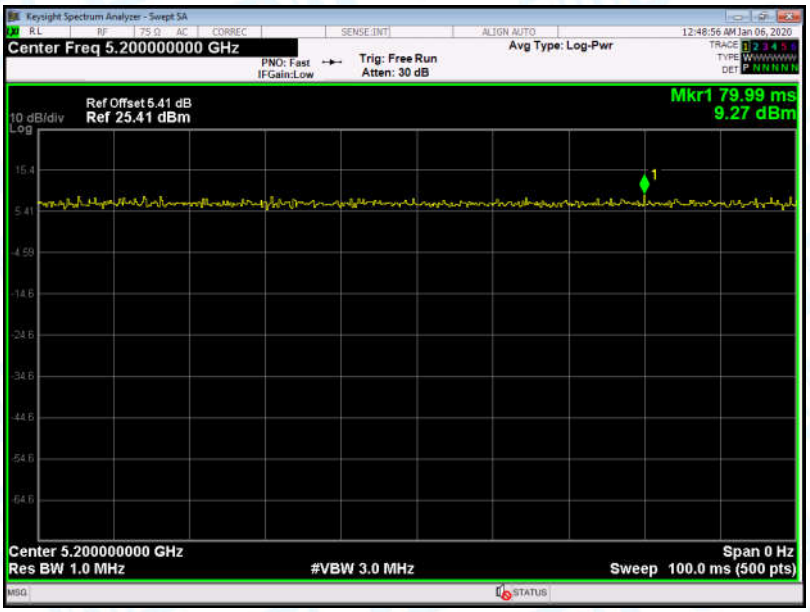
802.11 a 5200MHz U-NII-1



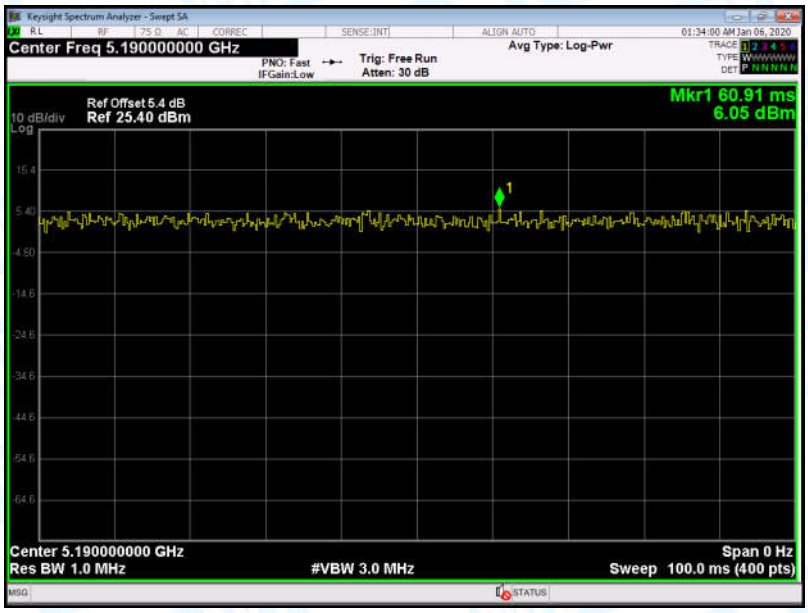
802.11 n(HT20) 5200MHz U-NII-1



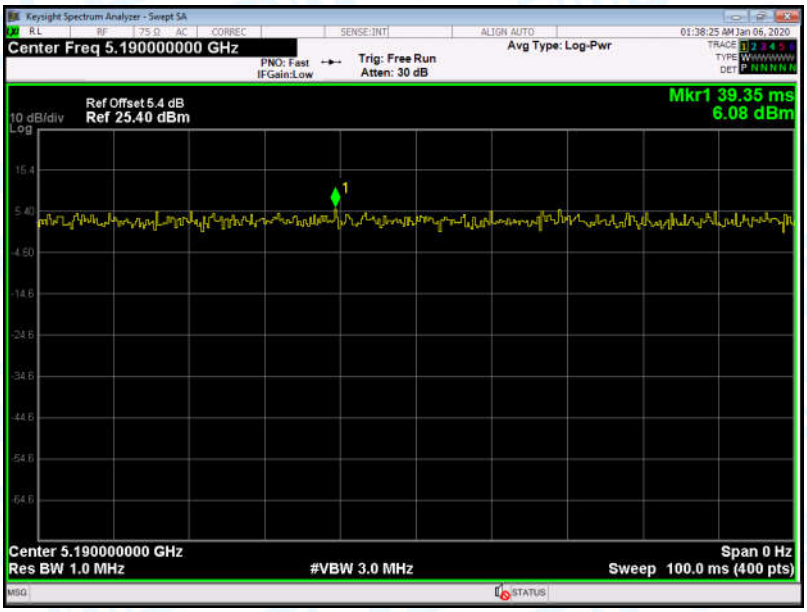
802.11 ac(HT20) 5200MHz U-NII-1



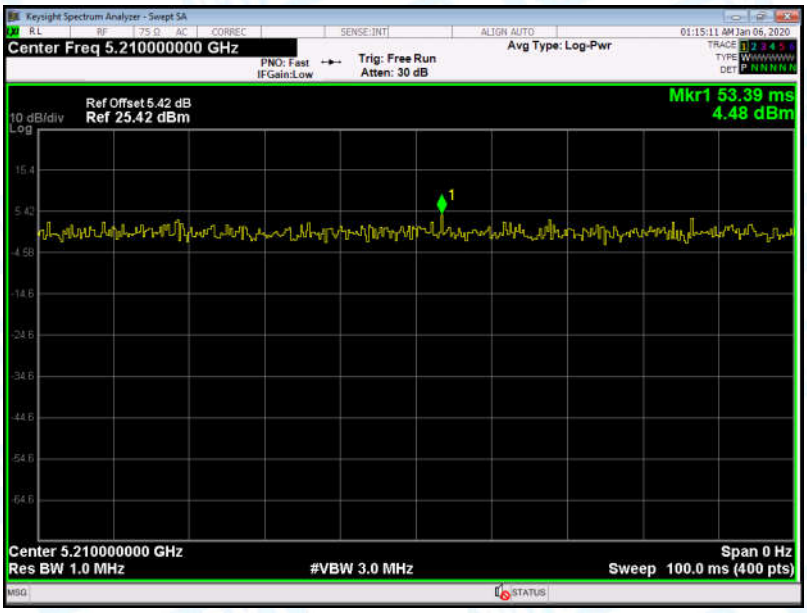
802.11 n(HT40) 5190MHz U-NII-1



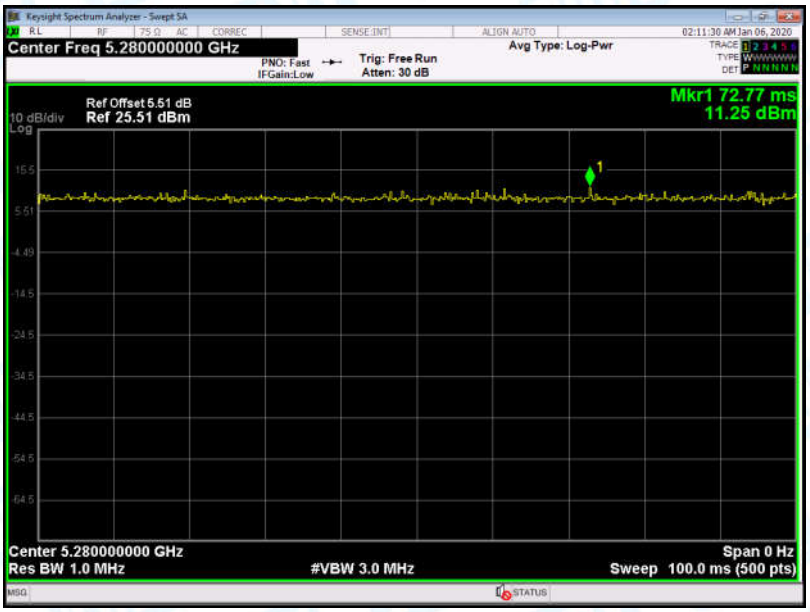
802.11 ac(VHT40) 5190MHz U-NII-1



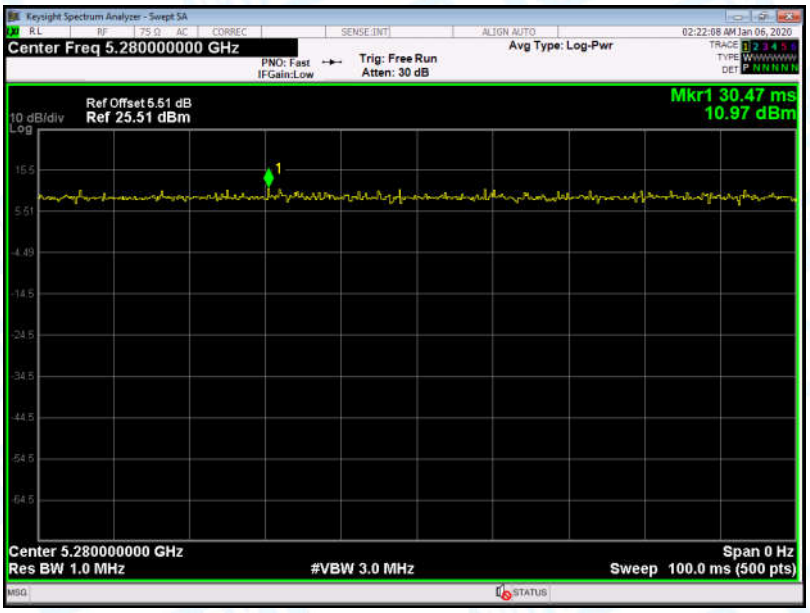
802.11 ac(HT80) 5210MHz U-NII-1



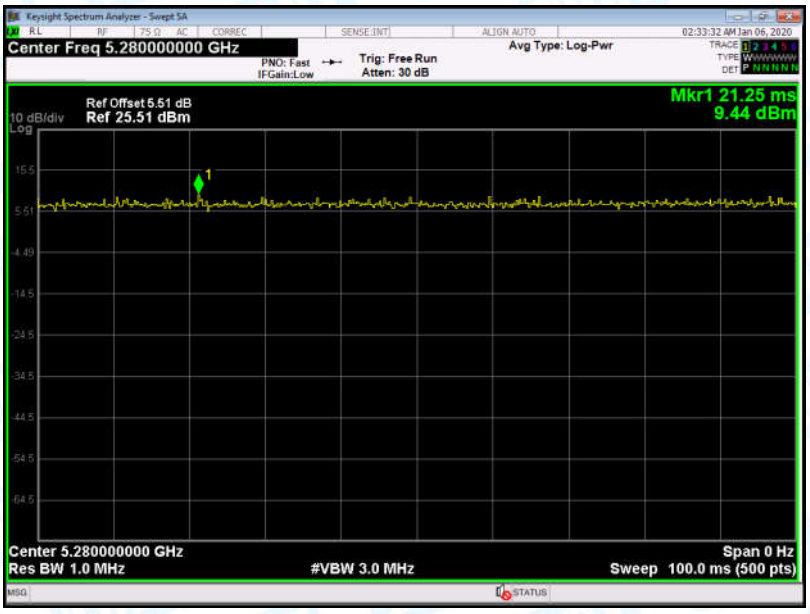
802.11 a 5280MHz U-NII-2A



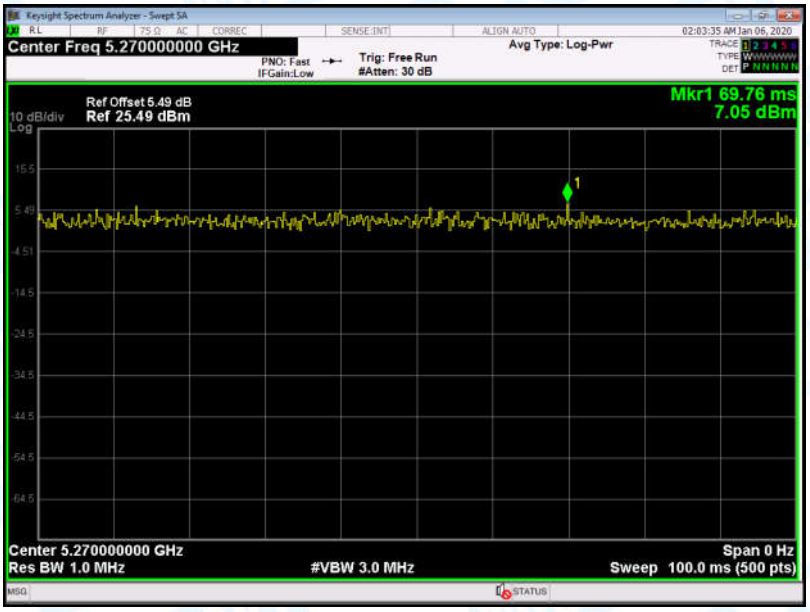
802.11 n(HT20) 5280MHz U-NII-2A



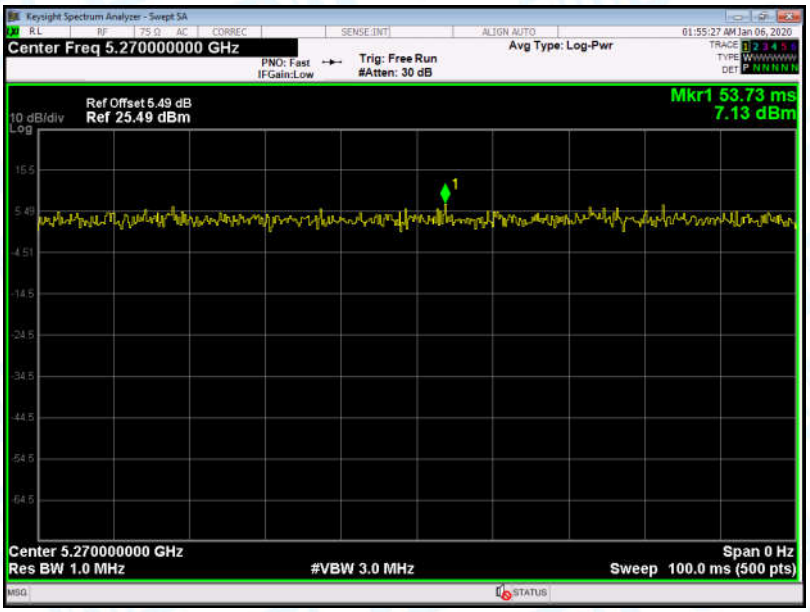
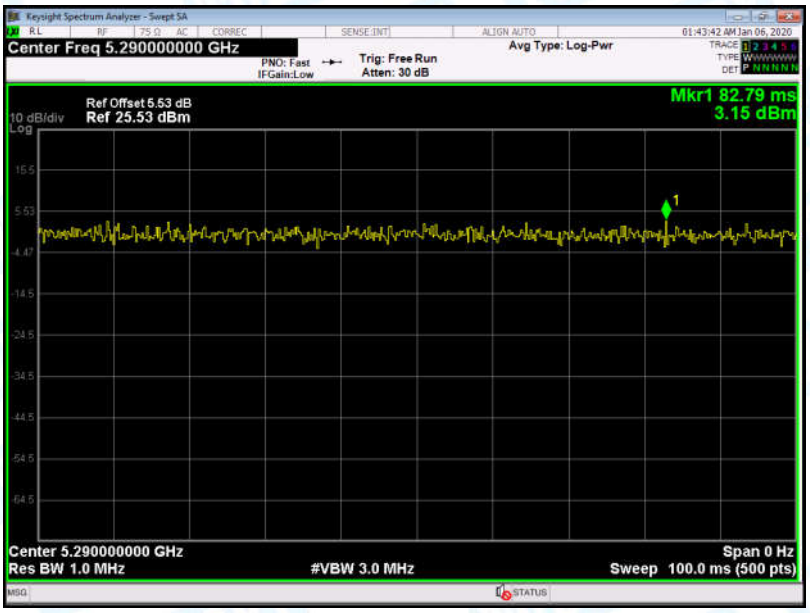
802.11 ac(VHT20) 5280MHz U-NII-2A



802.11 n(HT40) 5270MHz U-NII-2A



802.11 ac(VHT40) 5270MHz U-NII-2A



802.11 ac(VHT80) 5290MHz U-NII-2A