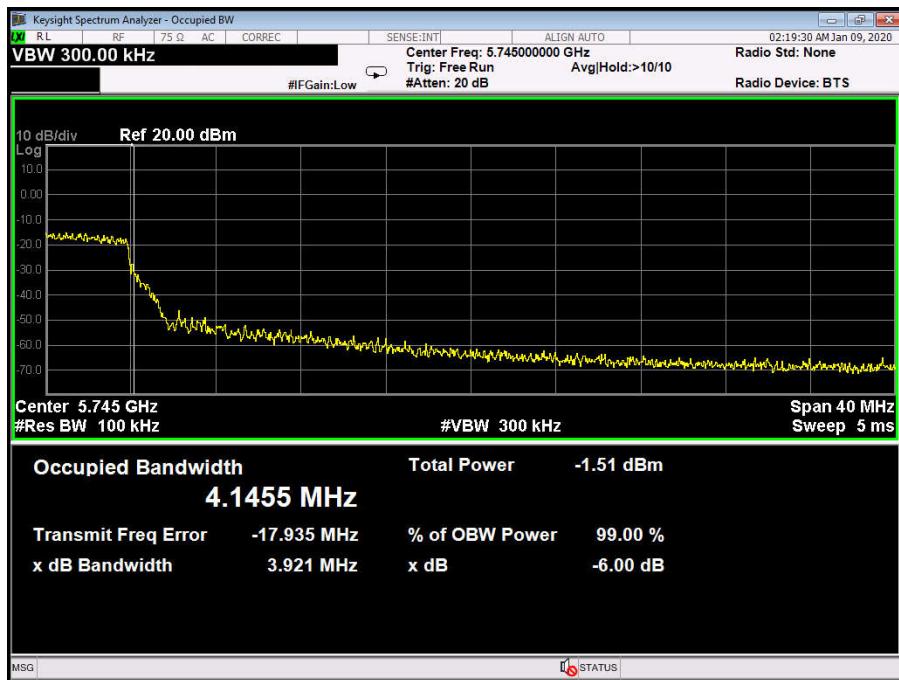
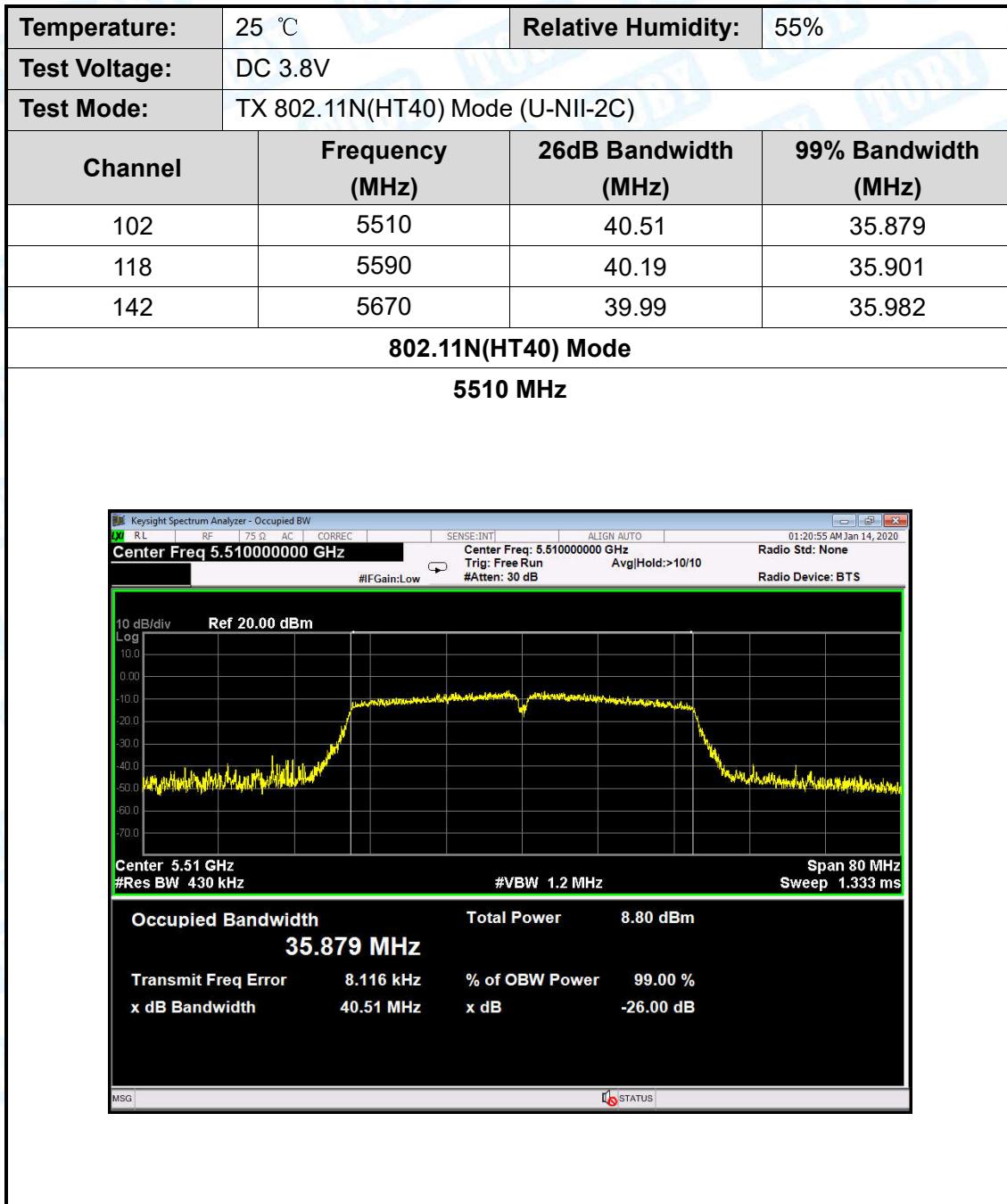
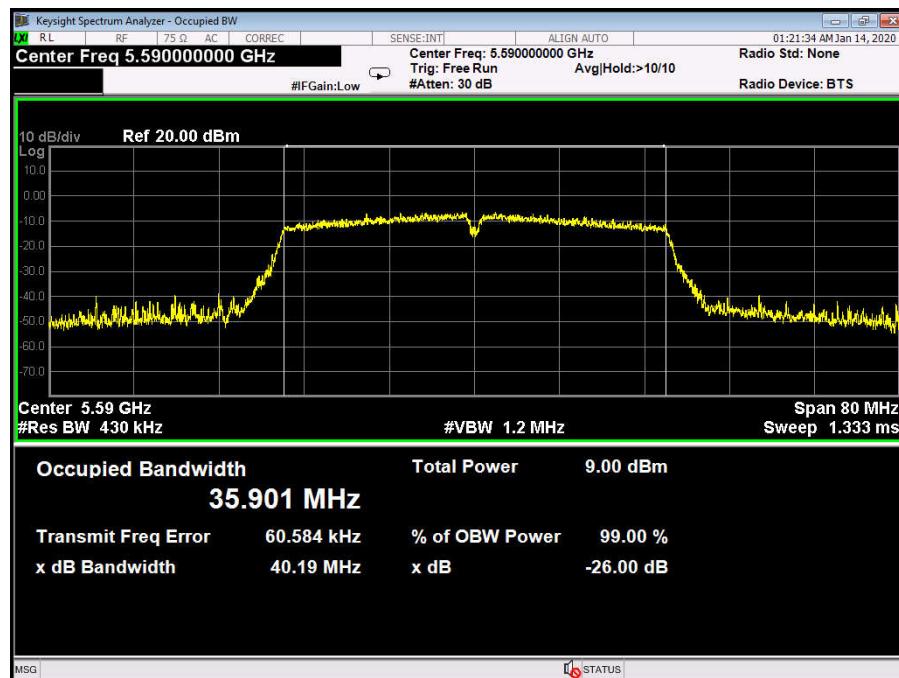
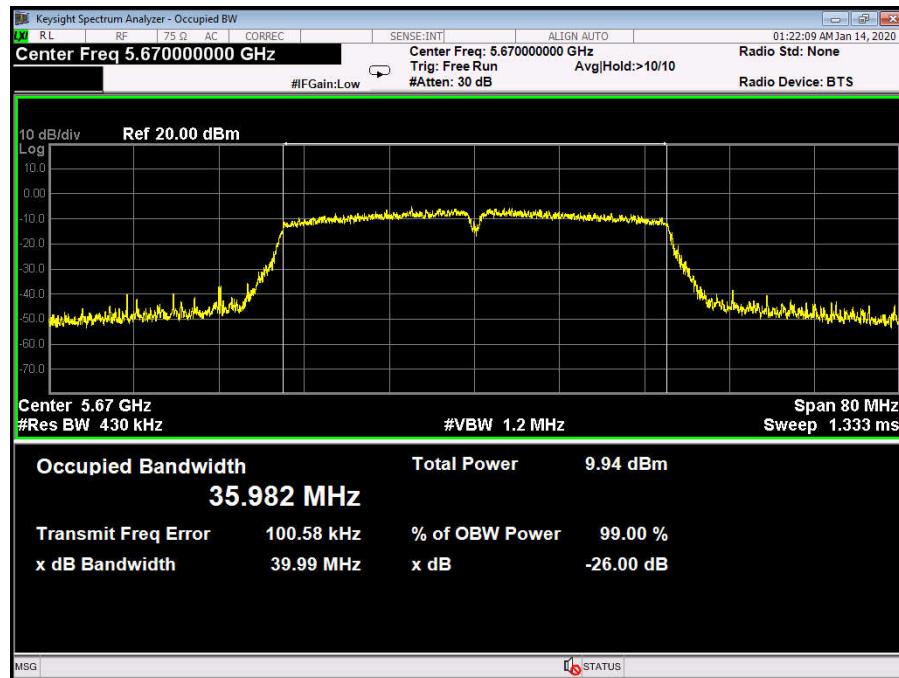
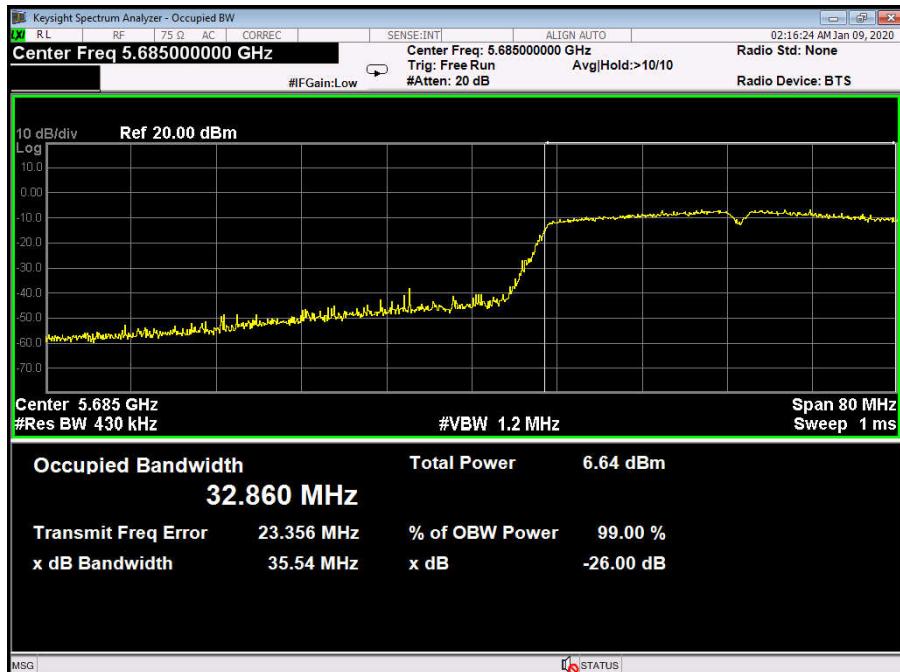


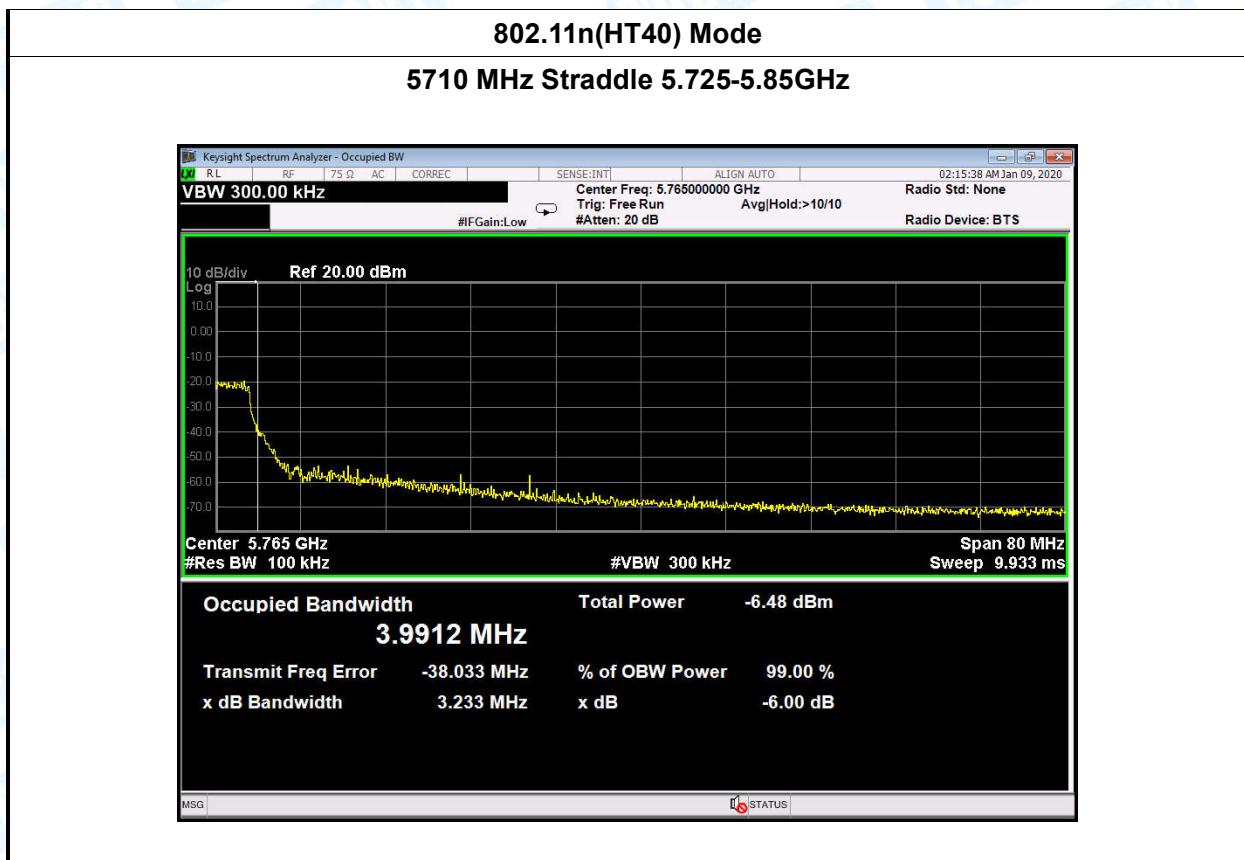
**802.11ac(VHT20) Mode****5720 MHz Straddle 5.725-5.85GHz**

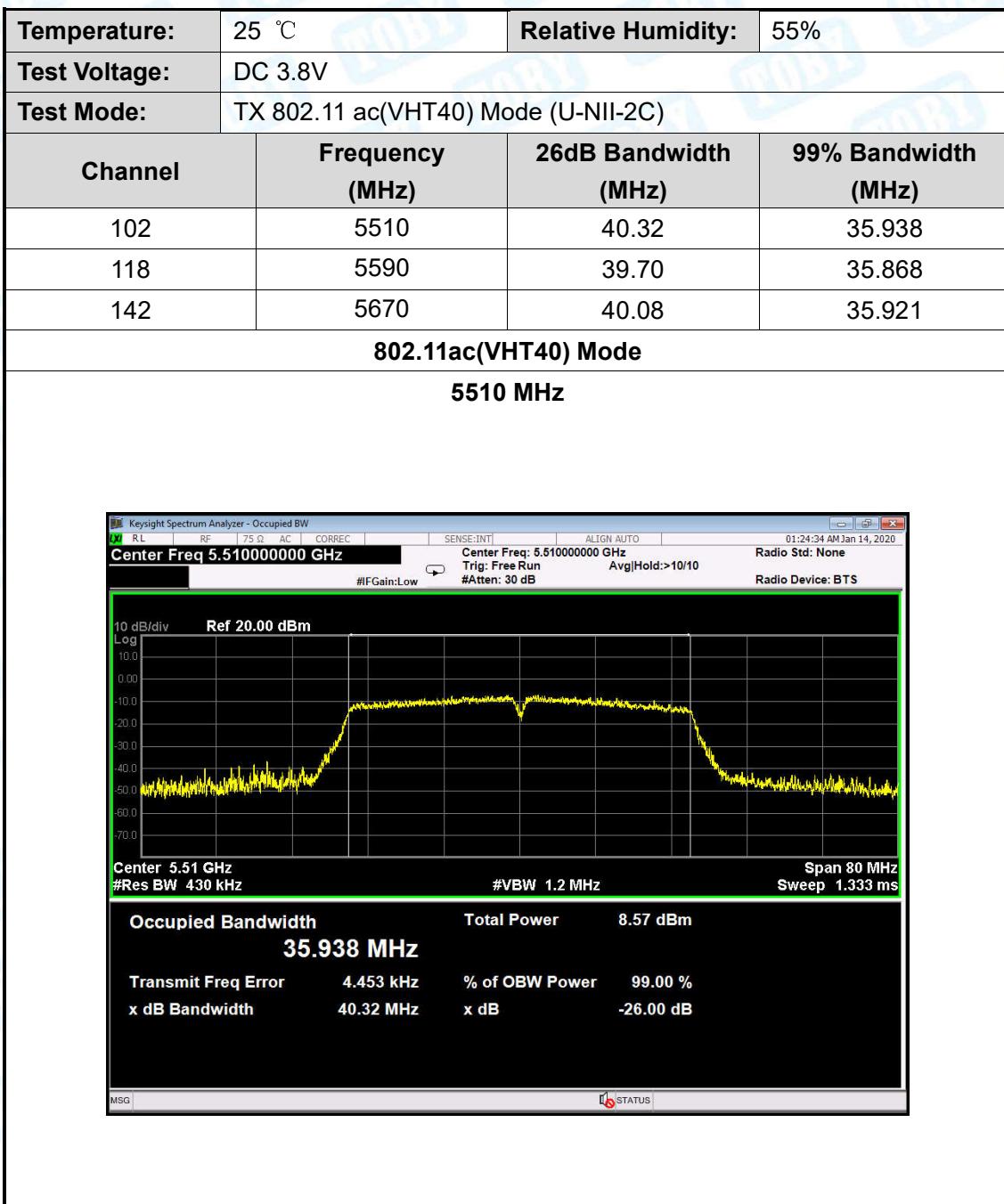


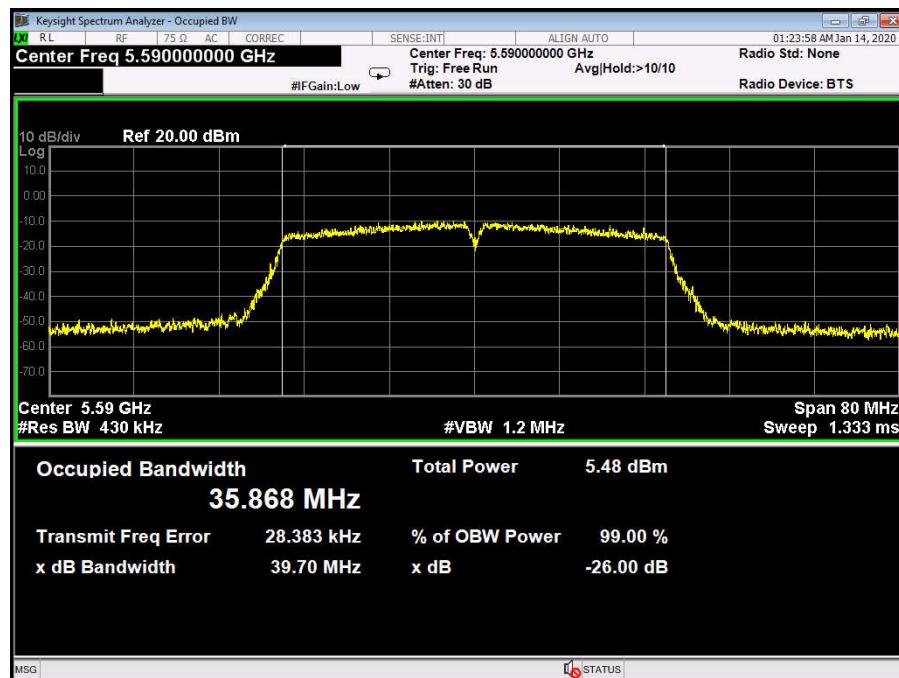
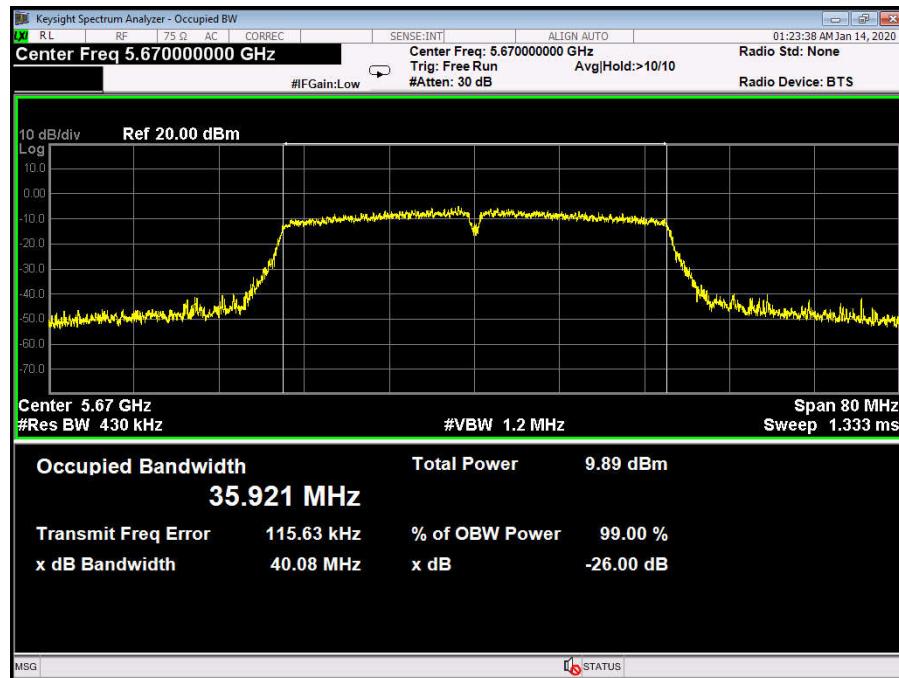
**802.11N(HT40) Mode****5590 MHz****802.11N(HT40) Mode****5670 MHz**

Temperature:	25 °C	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	35.54	----	32.860		
		----	3.233	3.9912		
<b>802.11n(HT40) Mode</b>						
<b>5710 MHz Straddle 5.47-5.725GHz</b>						

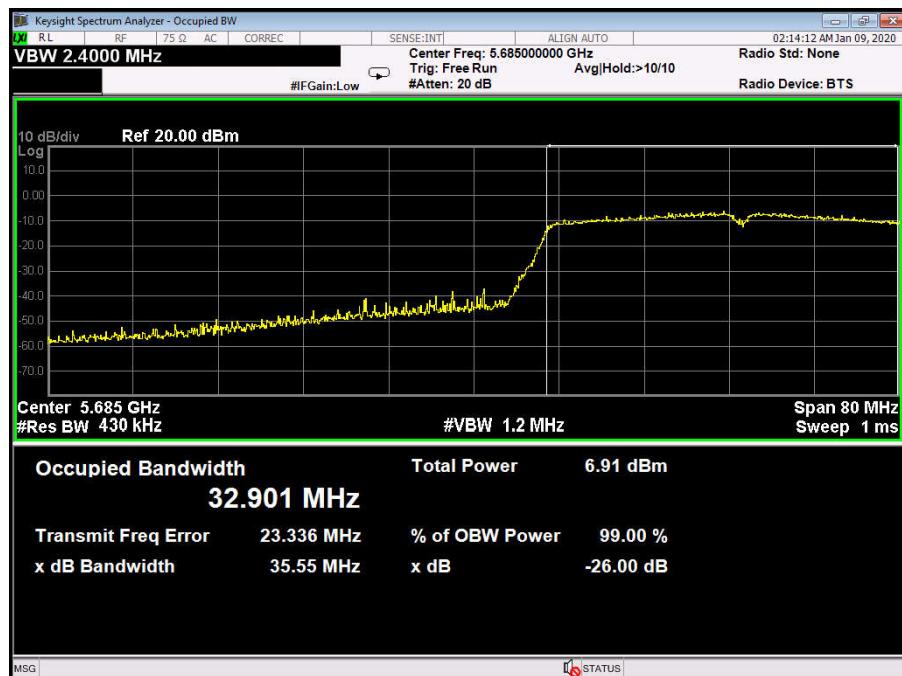






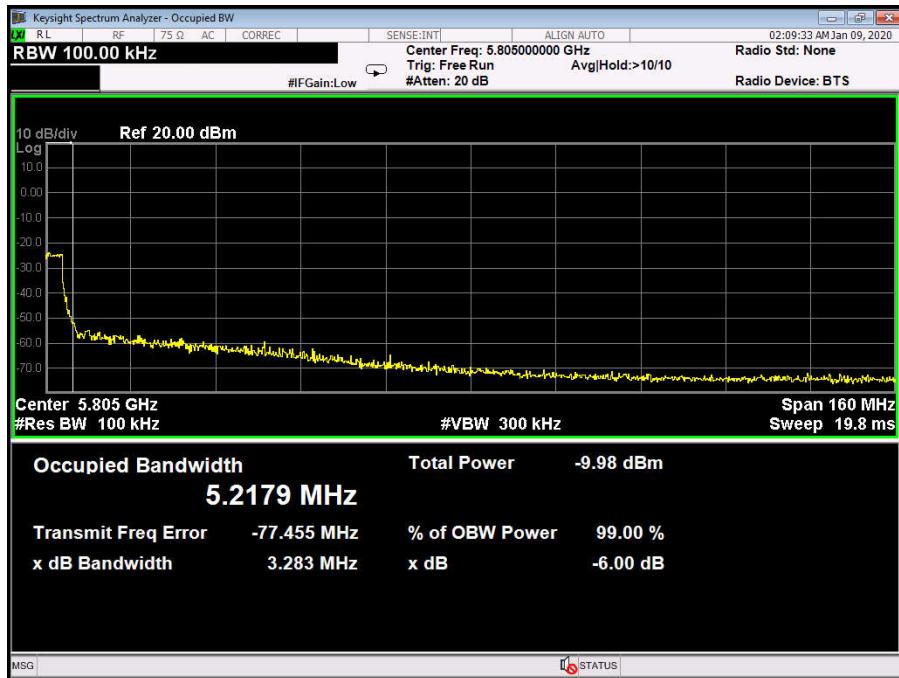
**802.11ac(VHT40) Mode****5590 MHz****802.11ac(VHT40) Mode****5670 MHz**

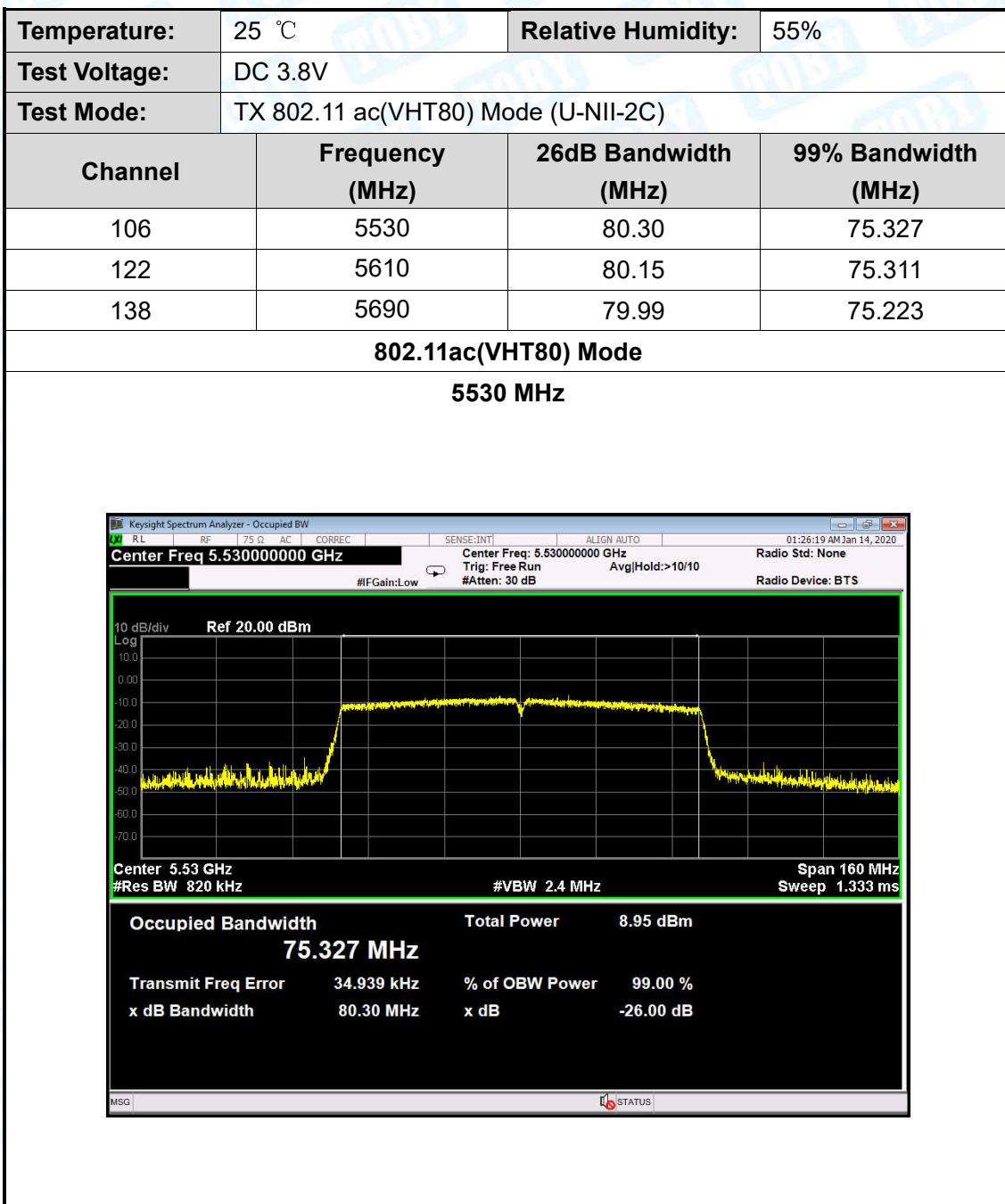
Temperature:	25 °C	Relative Humidity:	55%			
Test Voltage:	DC 3.8V					
Test Mode:	TX 802.11ac(VHT40) Mode (U-NII-2C)					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)		
142	5710	35.55	---	32.901		
		----	3.283	5.2179		

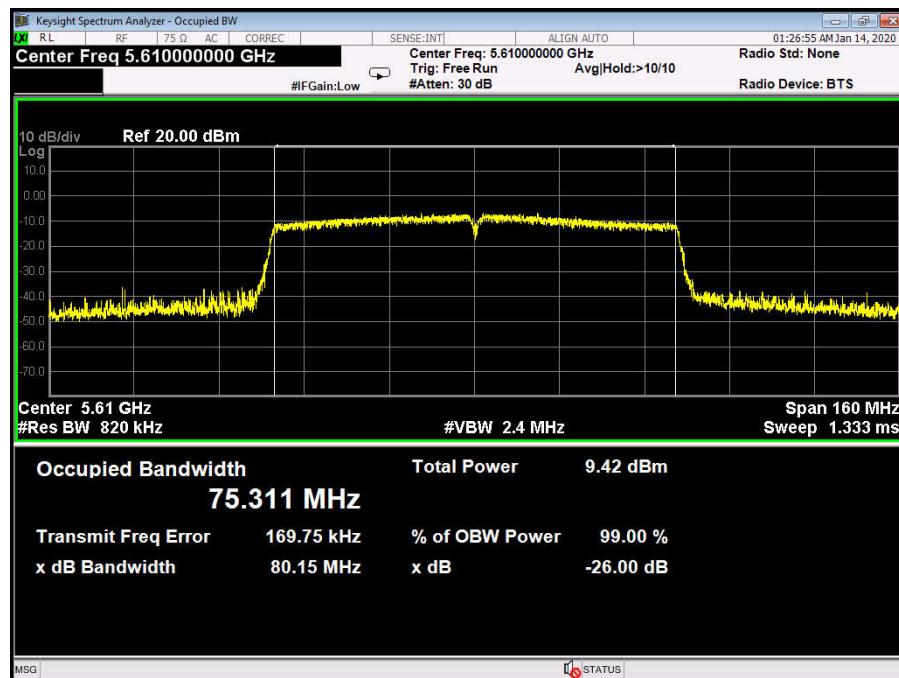
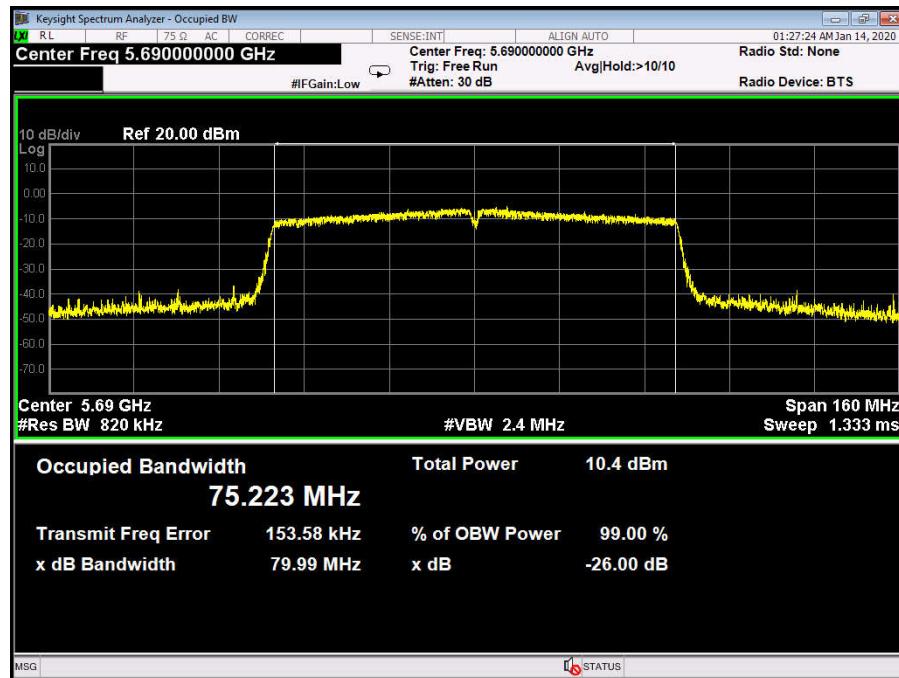
**802.11ac(VHT40) Mode****5710 MHz Straddle 5.47-5.725GHz**

## 802.11ac(VHT40) Mode

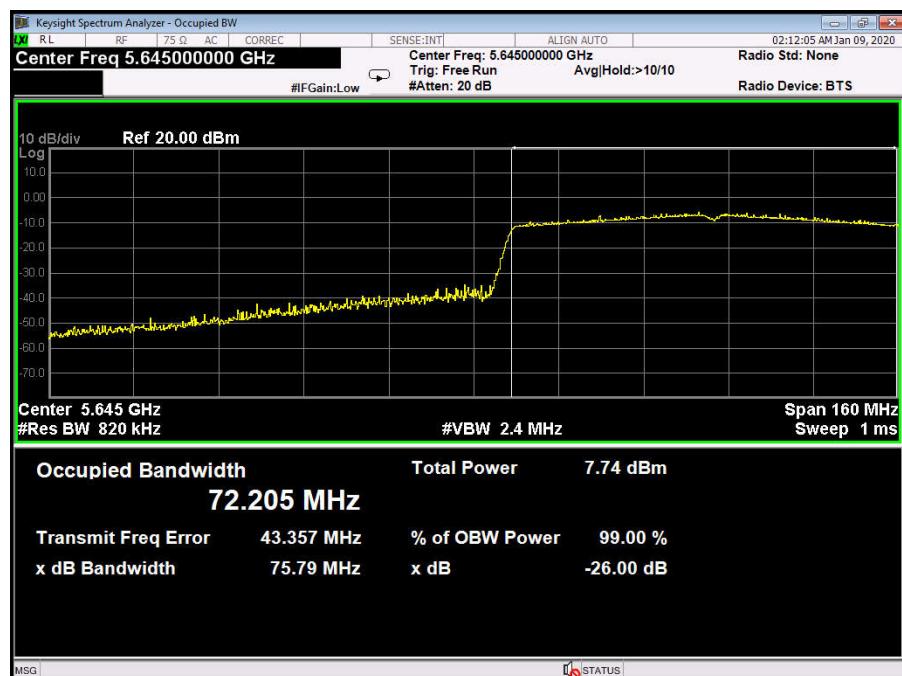
5710 MHz Straddle 5.725-5.85GHz



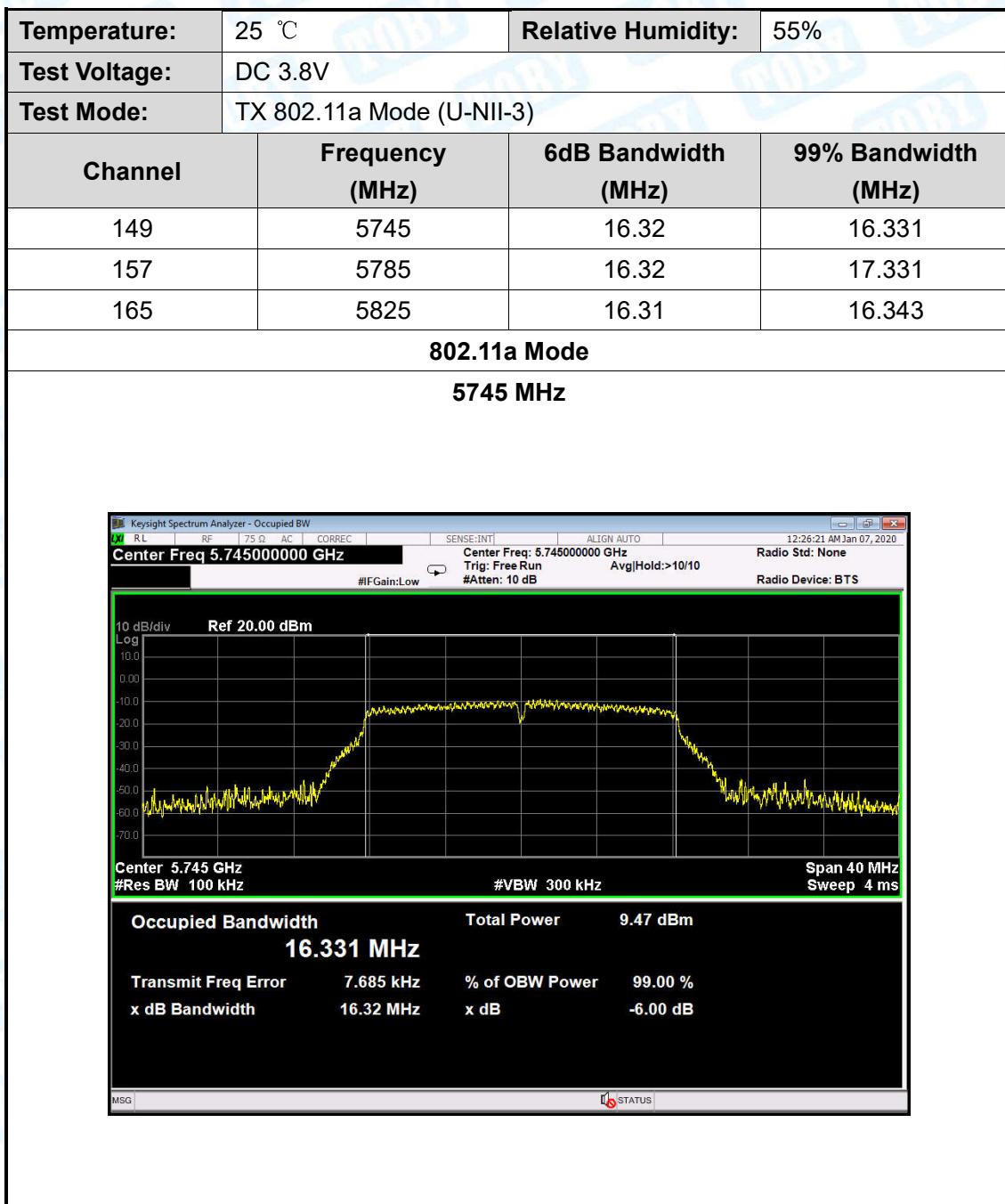


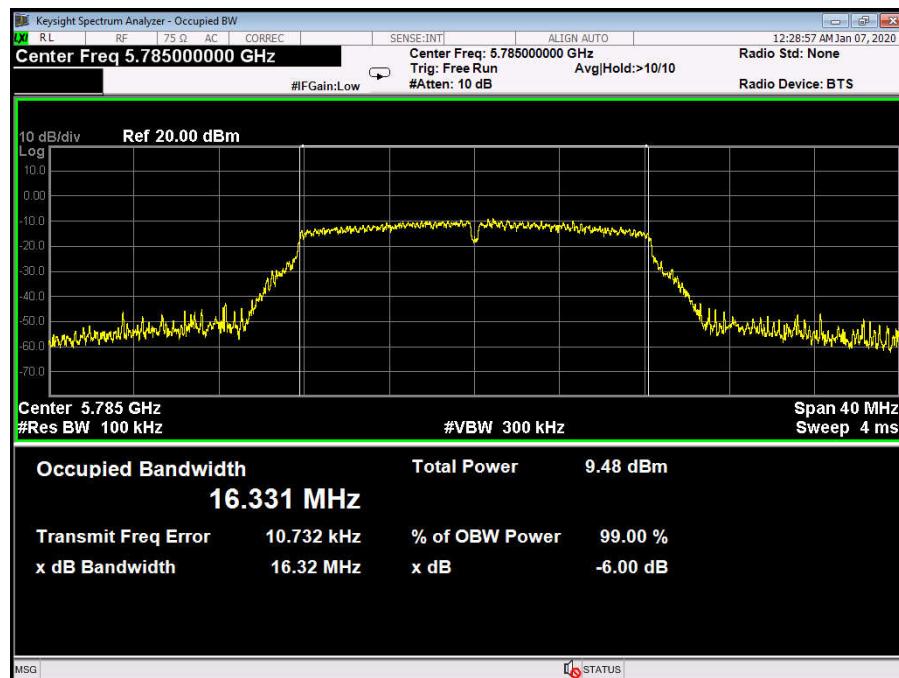
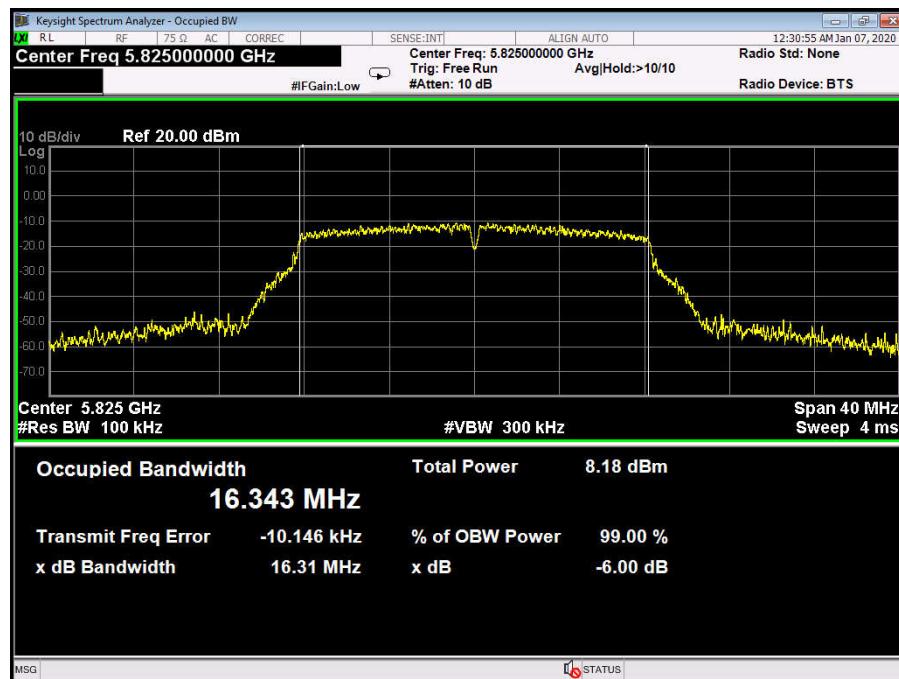
**802.11ac(VHT80) Mode****5610 MHz****802.11ac(VHT80) Mode****5690 MHz**

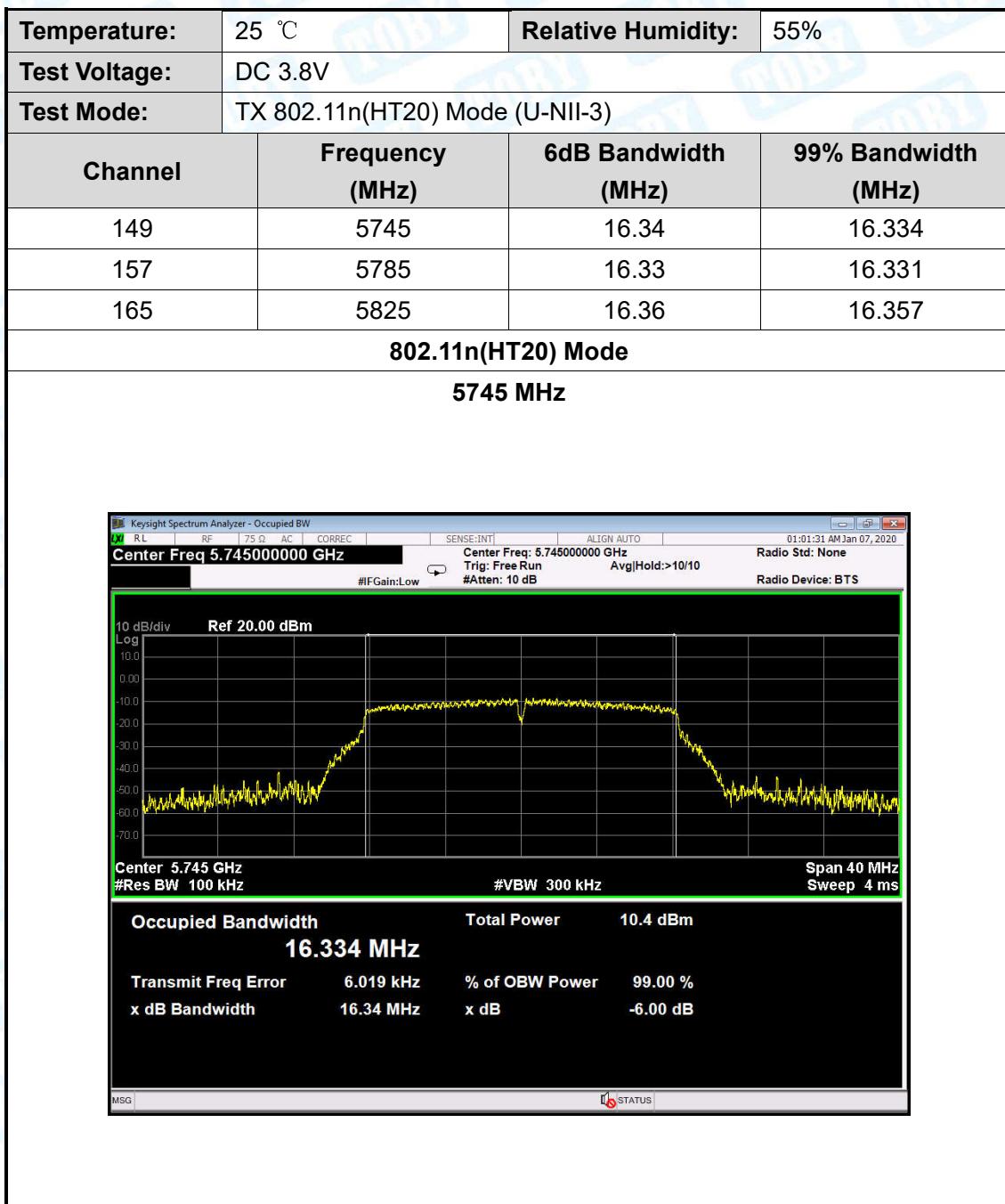
Temperature:	25 °C	Relative Humidity:	55%			
Test Voltage:	DC 3.8V					
Test Mode:	TX 802.11ac(HT80) Mode (U-NII-2C)					
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)		
142	5710	75.79	----	72.205		
		----	3.284	4.9125		

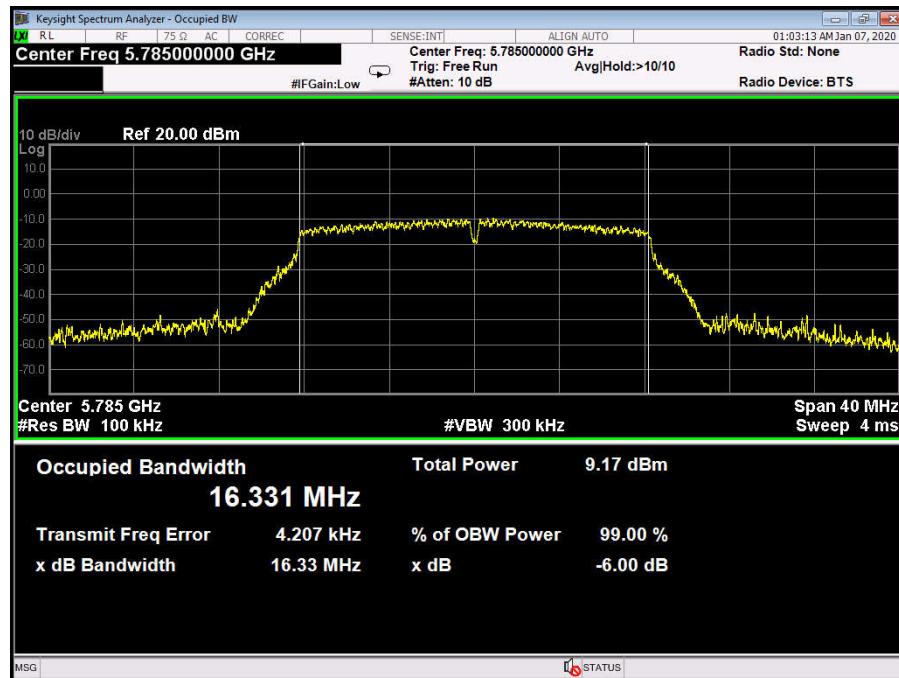
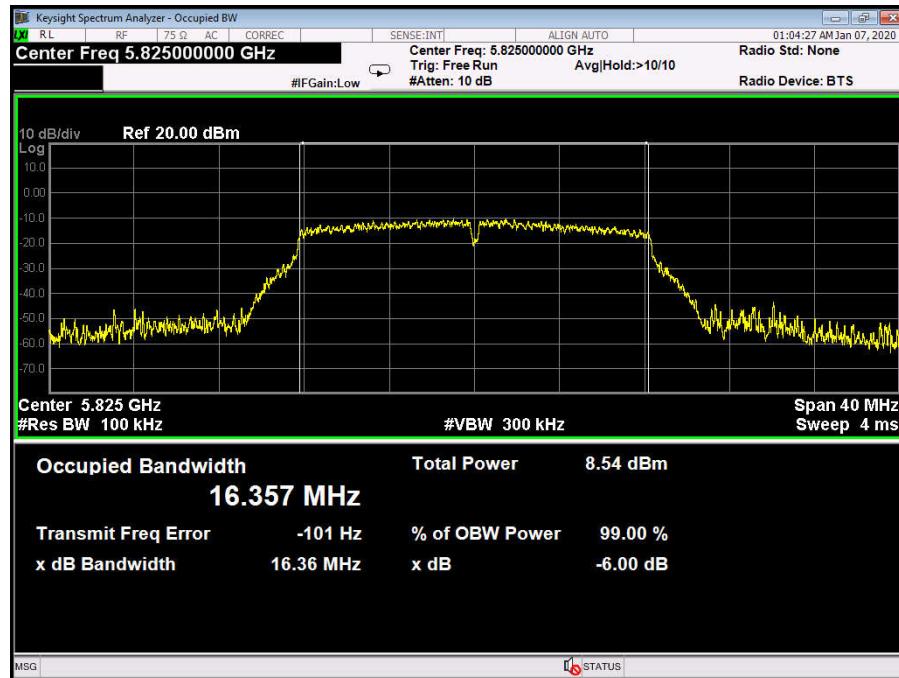
**802.11ac(VHT80) Mode****5710 MHz Straddle 5.47-5.725GHz**

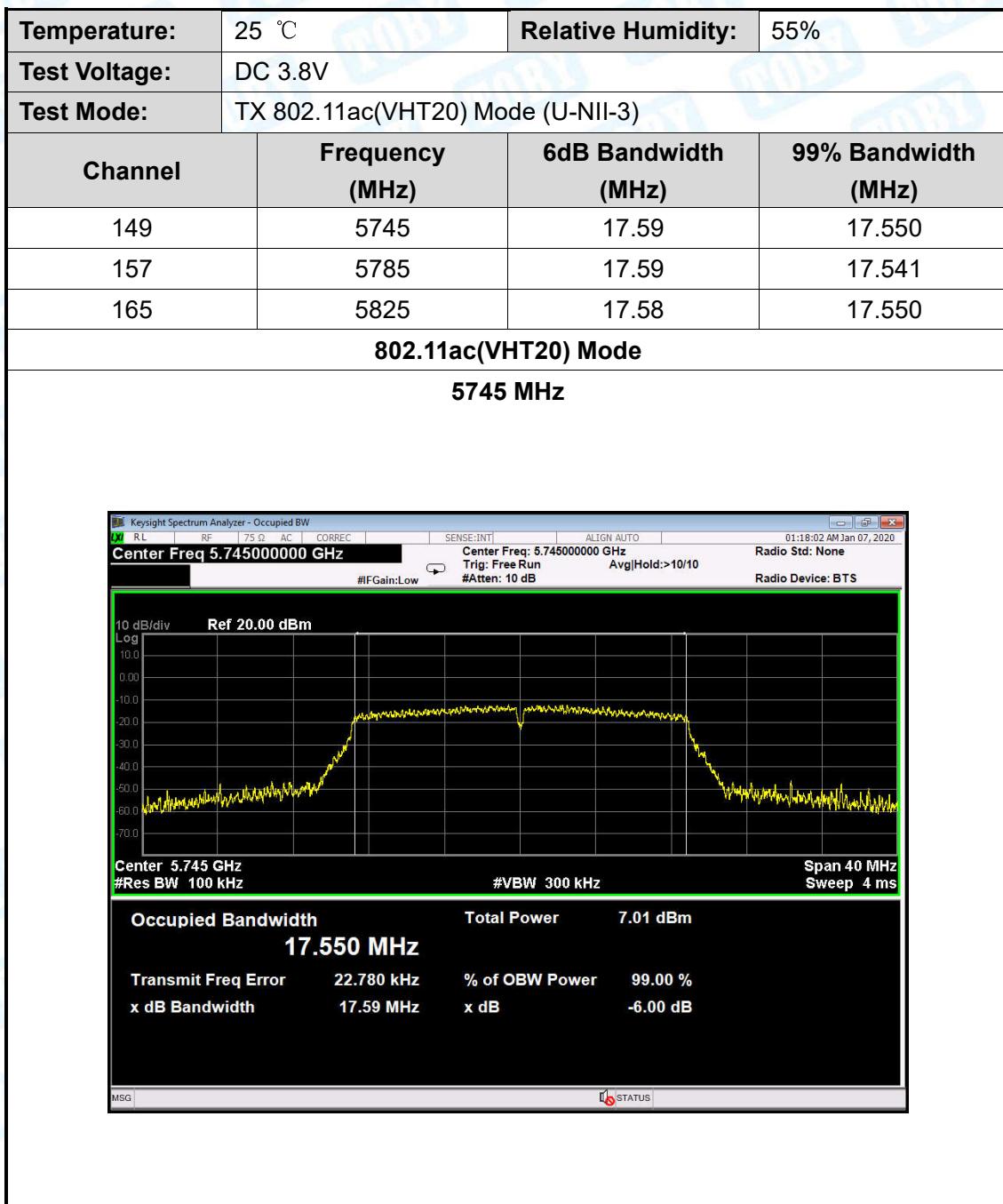
**802.11ac(VHT80) Mode****5690 MHz Straddle 5.725-5.85GHz**

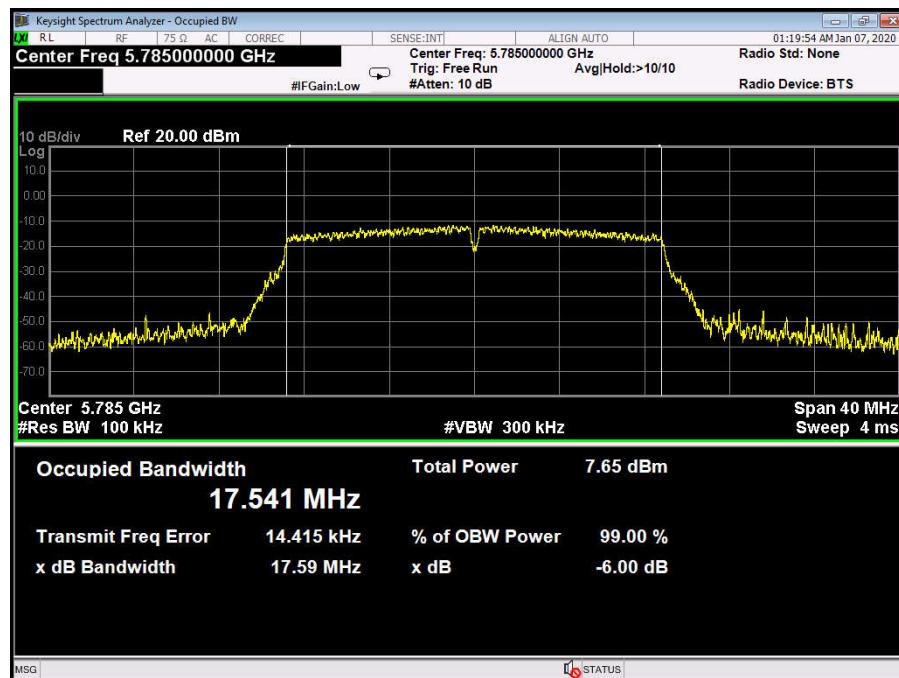
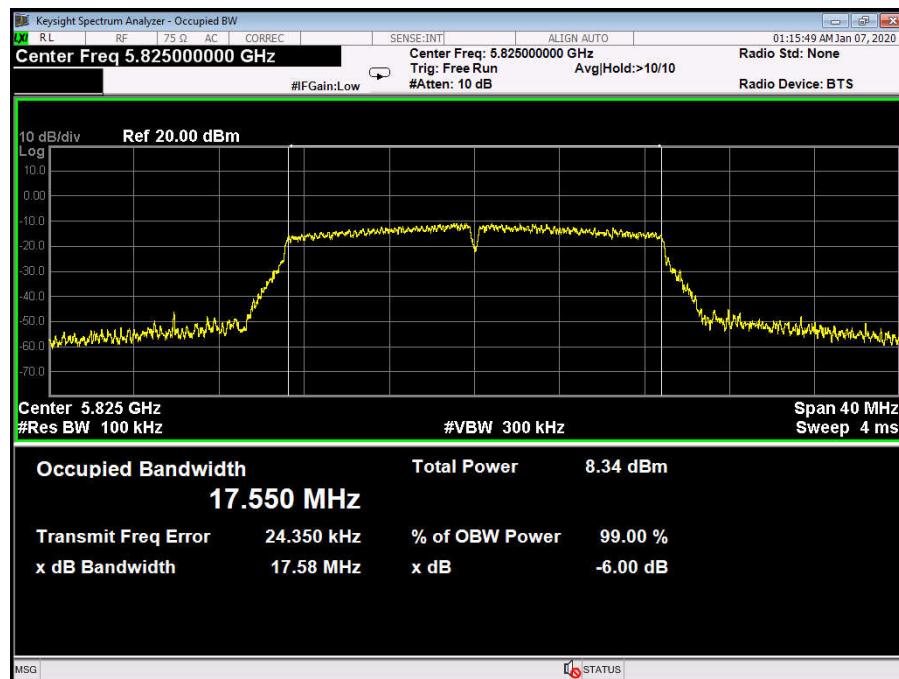


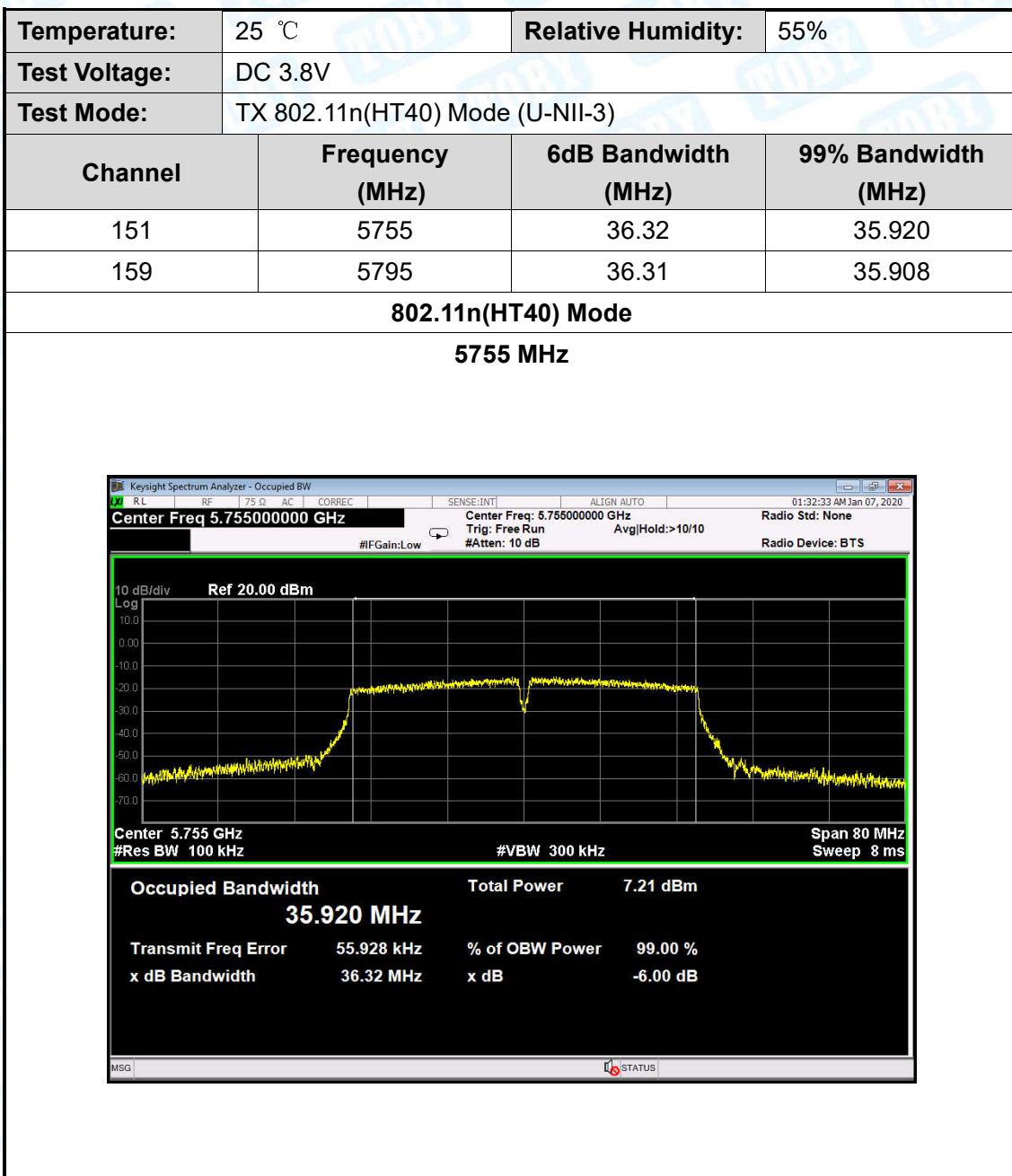
**802.11a Mode****5785 MHz****802.11a Mode****5825 MHz**

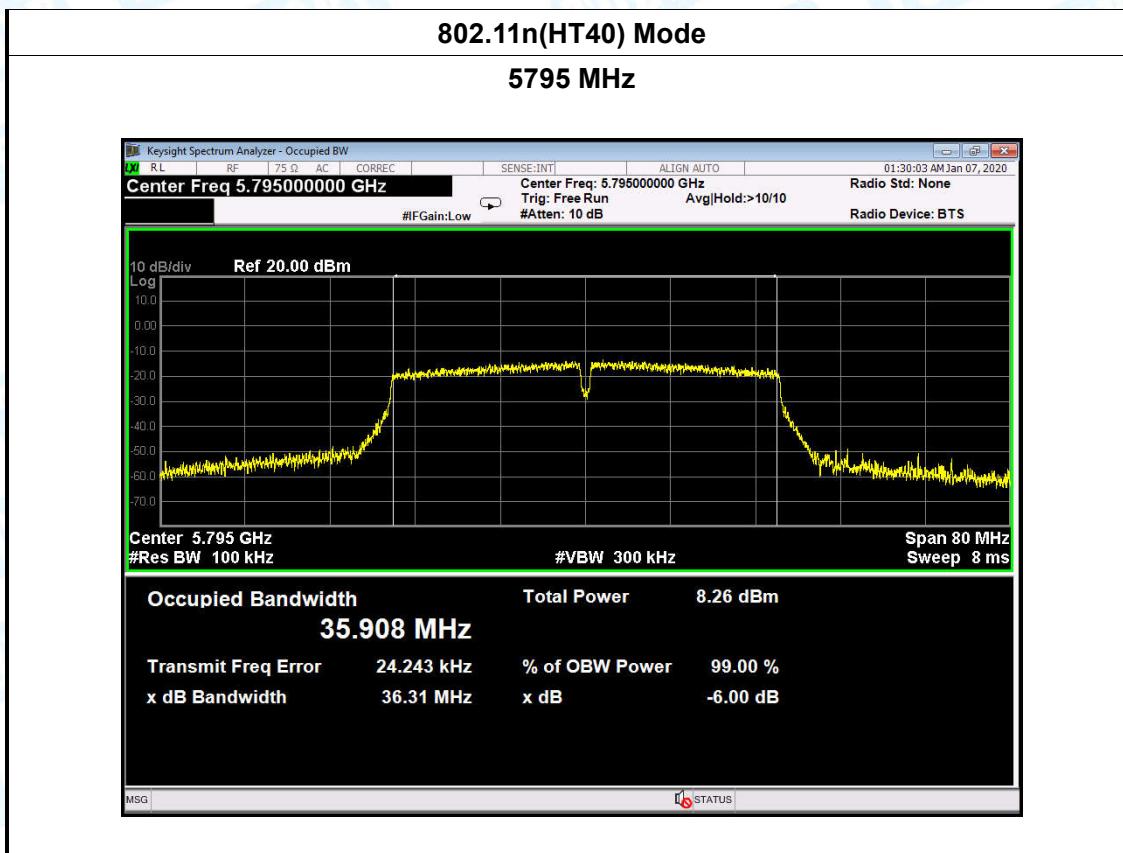


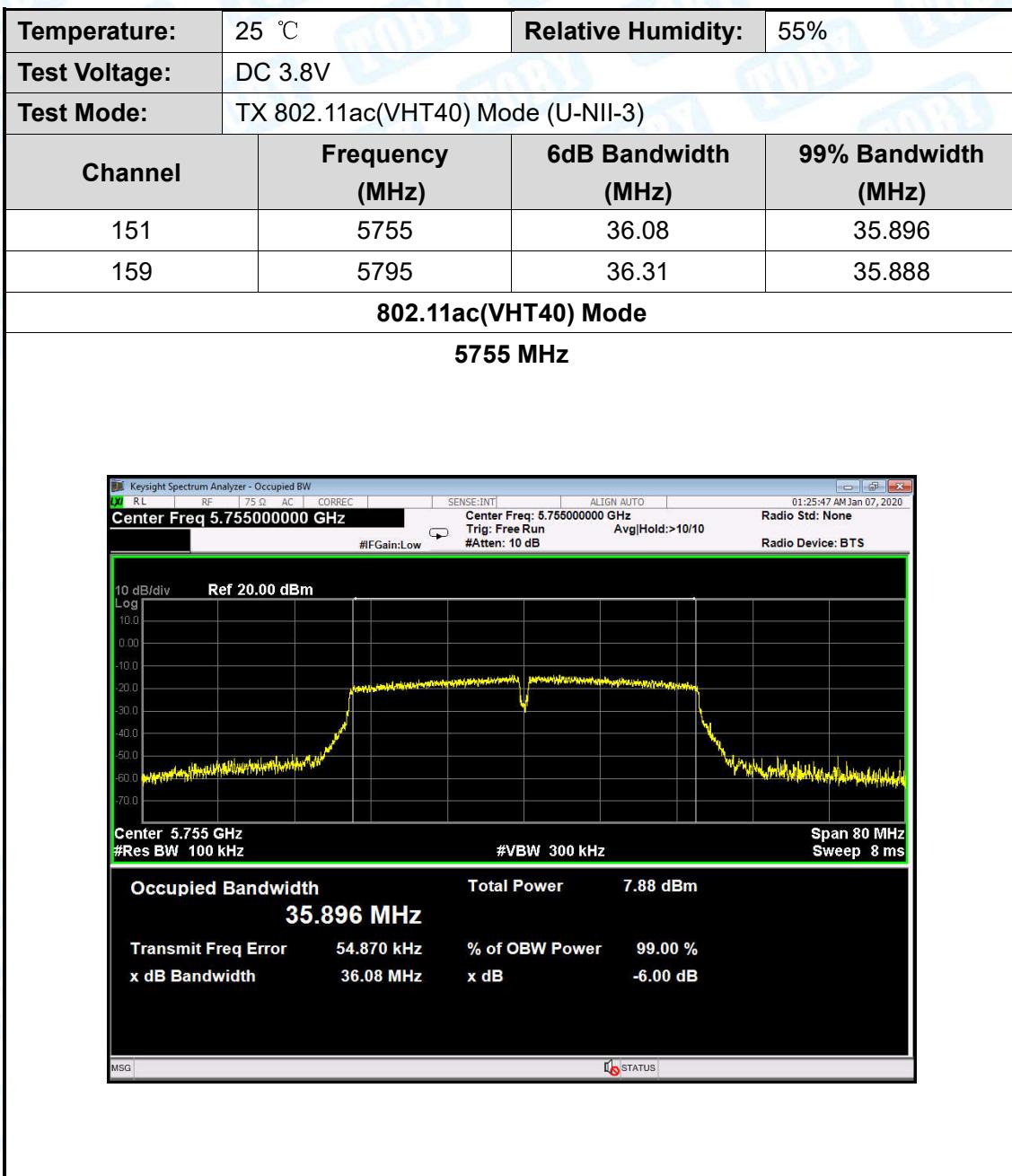
**802.11n(HT20) Mode****5785 MHz****802.11n(HT20) Mode****5825 MHz**

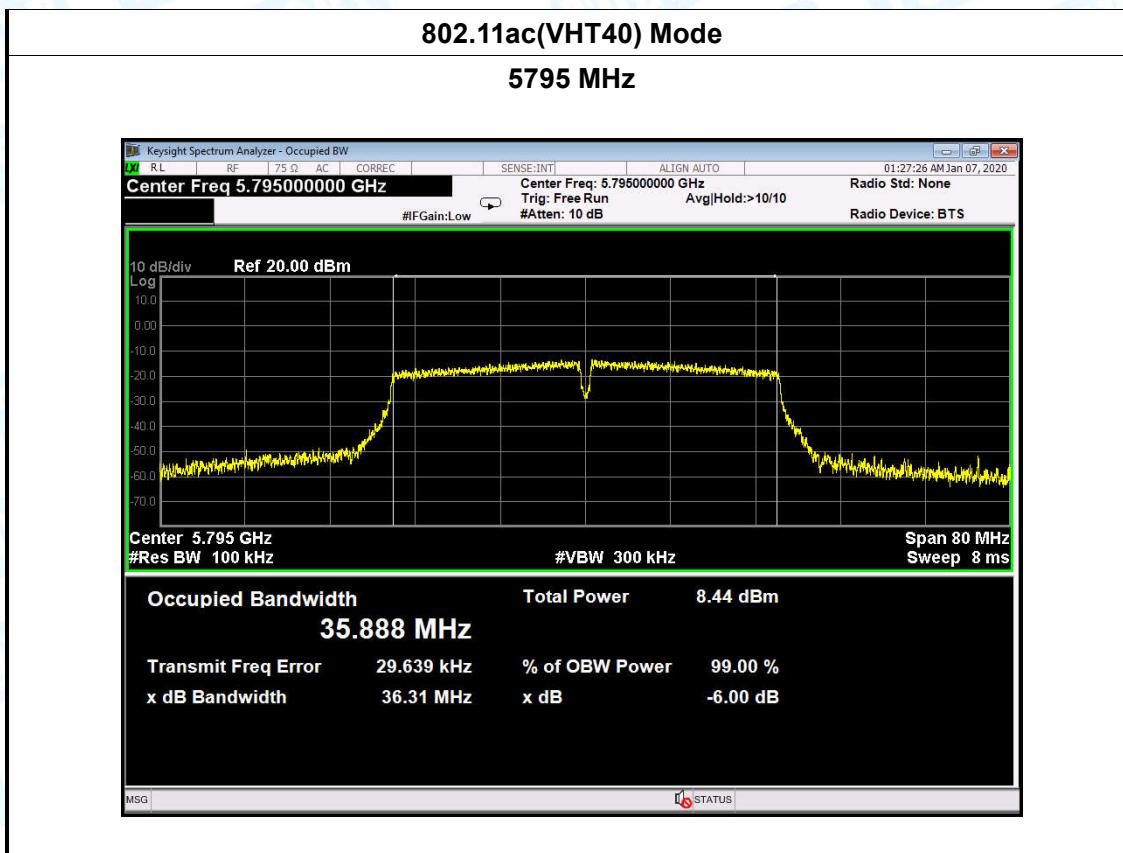


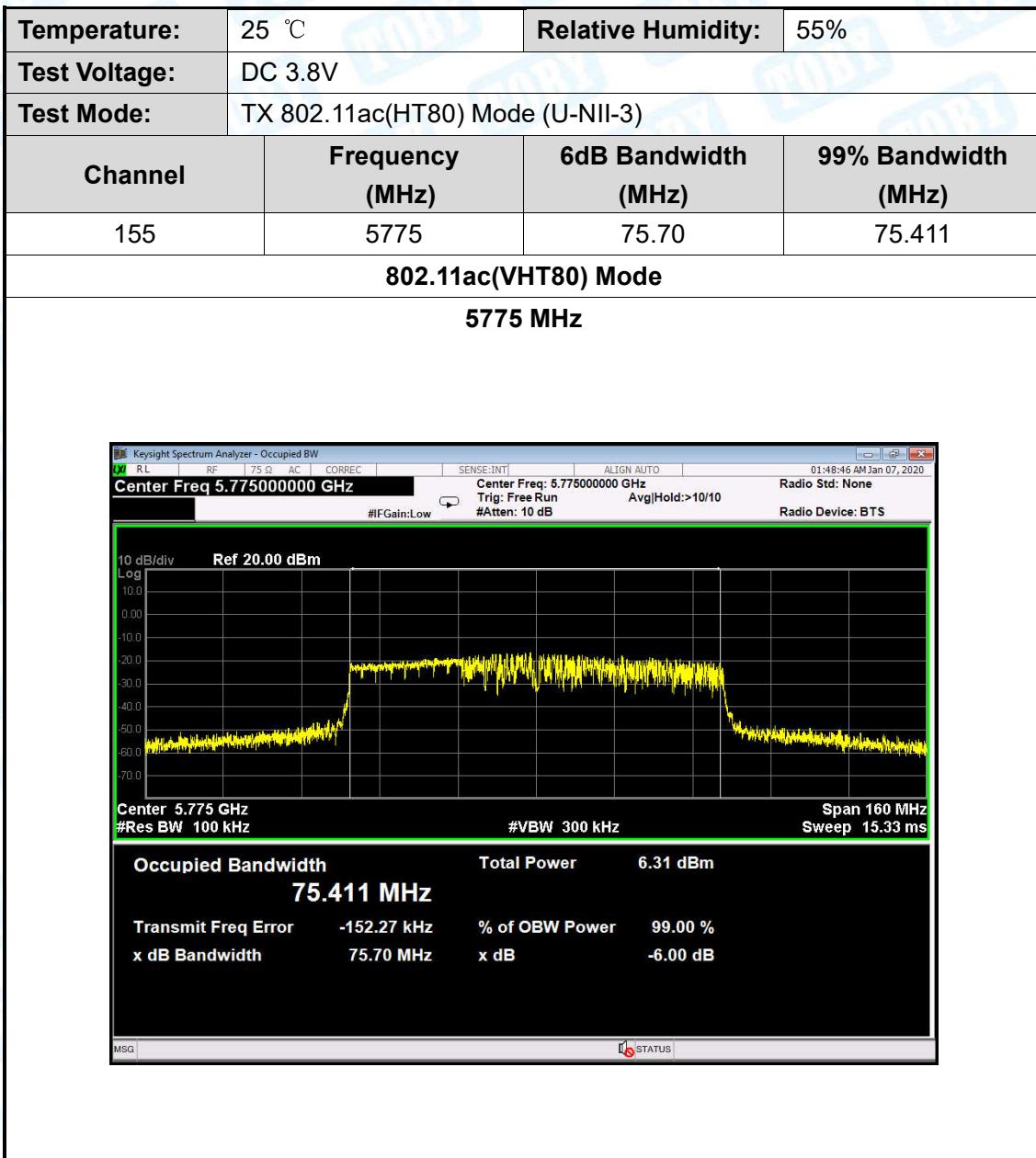
**802.11ac(VHT20) Mode****5785 MHz****802.11ac(VHT20) Mode****5825 MHz**











## Attachment E--AVG Output Power Test Data

Temperature:	25 °C	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	16.29	0	16.29	24	
	5200	16.51	0	16.51		
	5240	16.35	0	16.35		
802.11n (HT20)	5180	16.48	0	16.48		
	5200	16.44	0	16.44		
	5240	16.80	0	16.80		
802.11ac (VHT20)	5180	16.37	0	16.37		
	5200	16.14	0	16.14		
	5240	16.46	0	16.46		
802.11n (HT40)	5190	16.45	0	16.45		
	5230	16.82	0	16.82		
802.11 ac(VHT40)	5190	16.44	0	16.44		
	5230	16.67	0	16.67		
802.11 ac(VHT80)	5210	16.53	0	16.53		
Result: PASS						
<b>Remark:</b> the Directional Gain=2.92dBi<6 dBi. So $P_{out} = P_{limit} = 24\text{dBm}$						

<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%		
<b>Test Voltage:</b>	DC 3.8V				
<b>U-NII-2A</b>					
<b>Test Mode</b>	<b>Frequency (MHz)</b>	<b>Test Data</b>			<b>Limit (dBm)</b>
		<b>Conducted Power (dBm)</b>	<b>Duty Factor (dB)</b>	<b>Total Power (dBm)</b>	
802.11a	<b>5260</b>	15.98	0	15.98	24
	<b>5280</b>	15.96	0	15.96	
	<b>5320</b>	16.07	0	16.07	
802.11n (HT20)	<b>5260</b>	15.83	0	15.83	
	<b>5280</b>	15.69	0	15.69	
	<b>5320</b>	16.83	0	16.83	
802.11ac (VHT20)	<b>5260</b>	15.87	0	15.87	
	<b>5280</b>	15.64	0	15.64	
	<b>5320</b>	15.91	0	15.91	
802.11n (HT40)	<b>5270</b>	16.09	0	16.09	
	<b>5310</b>	15.78	0	15.78	
802.11 ac(VHT40)	<b>5270</b>	15.80	0	15.80	
	<b>5310</b>	15.57	0	15.57	
802.11 ac(VHT80)	<b>5290</b>	15.74	0	15.74	
<b>Result: PASS</b>					
<b>Remark:</b> the Directional Gain=2.92dBi<6 dBi. So $P_{out} = P_{limit} = 24\text{dBm}$					

<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%		
<b>Test Voltage:</b>	DC 3.8V				
<b>U-NII-2C</b>					
<b>Test Mode</b>	<b>Frequency (MHz)</b>	<b>Test Data</b>			<b>Limit (dBm)</b>
		<b>Conducted Power (dBm)</b>	<b>Duty Factor (dB)</b>	<b>Total Power (dBm)</b>	
802.11a	<b>5500</b>	15.93	0	15.93	24
	<b>5600</b>	13.34	0	13.34	
	<b>5720</b>	15.89	0	15.89	
802.11n (HT20)	<b>5500</b>	15.18	0	15.18	
	<b>5600</b>	13.54	0	13.54	
	<b>5720</b>	15.41	0	15.41	
802.11ac (VHT20)	<b>5500</b>	15.65	0	15.65	
	<b>5600</b>	12.52	0	12.52	
	<b>5720</b>	13.48	0	13.48	
802.11n (HT40)	<b>5510</b>	15.65	0	15.65	
	<b>5590</b>	12.52	0	12.52	
	<b>5710</b>	13.48	0	13.48	
802.11 ac(VHT40)	<b>5510</b>	16.07	0	16.07	
	<b>5590</b>	13.22	0	13.22	
	<b>5710</b>	15.40	0	15.40	
802.11 ac(VHT80)	<b>5530</b>	14.76	0	14.76	
	<b>5610</b>	13.08	0	13.08	
	<b>5690</b>	14.63	0	14.63	
<b>Result: PASS</b>					
<b>Remark:</b> the Directional Gain=2.92dBi<6 dBi. So $P_{out} = P_{limit} = 24\text{dBm}$					

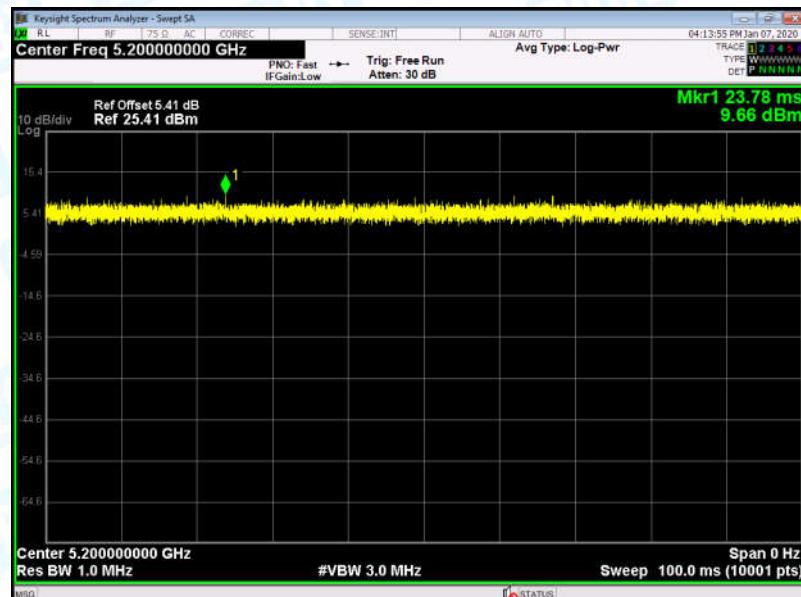
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%		
<b>Test Voltage:</b>	DC 3.8V				
<b>U-NII-2C</b>					
<b>Test Mode</b>	<b>Frequency (MHz)</b>	<b>Test Data</b>			<b>Limit (dBm)</b>
		<b>Conducted Power (dBm)</b>	<b>Duty Factor (dB)</b>	<b>Total Power (dBm)</b>	
802.11a 5720MHz Straddle 5.47-5.725GHz	13.78	0	13.78	24	
802.11a 5720MHz Straddle 5.725-5.85GHz	6.57	0	6.57	30	
802.11n(HT20) 5720MHz Straddle 5.47-5.725GHz	13.58	0	13.58	24	
802.11n(HT20) 5720MHz Straddle 5.725-5.85GHz	6.48	0	6.48	30	
802.11ac(VHT20) 5720MHz Straddle 5.47-5.725GHz	14.02	0	14.02	24	
802.11ac(VHT20) 5720MHz Straddle 5.725-5.85GHz	6.78	0	6.78	30	
802.11n(HT40) 5710MHz Straddle 5.47-5.725GHz	14.93	0	14.93	24	
802.11n(HT40) 5710MHz Straddle 5.725-5.85GHz	3.12	0	3.12	30	
802.11ac(VHT40) 5710MHz Straddle 5.47-5.725GHz	14.38	0	14.38	24	
802.11ac(VHT40) 5710MHz Straddle 5.725-5.85GHz	3.07	0	3.07	30	
802.11ac(VHT80) 5690MHz Straddle 5.47-5.725GHz	13.59	0	13.59	24	
802.11ac(VHT80) 5690MHz Straddle 5.725-5.85GHz	3.09	0	3.09	30	
<b>Result: PASS</b>					
<b>Remark:</b> the Directional Gain=2.92dBi<6 dBi. So $P_{out} = P_{limit}$					

<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%		
<b>Test Voltage:</b>	DC 3.8V				
<b>U-NII-3</b>					
<b>Test Mode</b>	<b>Frequency (MHz)</b>	<b>Test Data</b>			<b>Limit (dBm)</b>
		<b>Conducted Power (dBm)</b>	<b>Duty Factor (dB)</b>	<b>Total Power (dBm)</b>	
802.11a	<b>5745</b>	15.20	0	15.20	30
	<b>5785</b>	15.10	0	15.10	
	<b>5825</b>	13.51	0	13.51	
802.11n (HT20)	<b>5745</b>	16.19	0	16.19	
	<b>5785</b>	14.87	0	14.87	
	<b>5825</b>	13.92	0	13.92	
802.11ac (VHT20)	<b>5745</b>	12.88	0	12.88	
	<b>5785</b>	13.94	0	13.94	
	<b>5825</b>	12.71	0	12.71	
802.11n (HT40)	<b>5755</b>	13.30	0	13.30	
	<b>5795</b>	13.71	0	13.71	
802.11 ac(VHT40)	<b>5755</b>	13.53	0	13.53	
	<b>5795</b>	14.14	0	14.14	
802.11 ac(VHT80)	<b>5775</b>	13.79	0	13.79	
<b>Result: PASS</b>					
<b>Remark:</b> the Directional Gain=2.92dBi<6 dBi. So $P_{out} = P_{limit} = 30\text{dBm}$					

Test Mode		Duty cycle
U-NII-1	802.11 a	>98%
	802.11 n(HT20)	
	802.11 ac(HT20)	
	802.11 n(HT40)	
	802.11 ac(HT40)	
	802.11 ac(HT80)	
U-NII-2A	802.11 a	>98%
	802.11 n(HT20)	
	802.11 ac(HT20)	
	802.11 n(HT40)	
	802.11 ac(HT40)	
	802.11 ac(HT80)	
U-NII-2C	802.11 a	>98%
	802.11 n(HT20)	
	802.11 ac(HT20)	
	802.11 n(HT40)	
	802.11 ac(HT40)	
	802.11 ac(HT80)	
U-NII-3	802.11 a	>98%
	802.11 n(HT20)	
	802.11 ac(HT20)	
	802.11 n(HT40)	
	802.11 ac(HT40)	
	802.11 ac(HT80)	

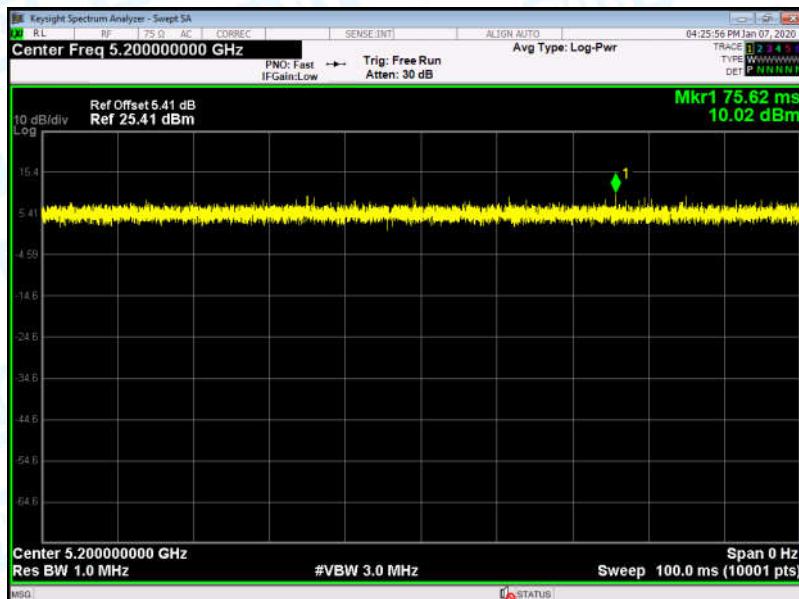
Please see the next plots.

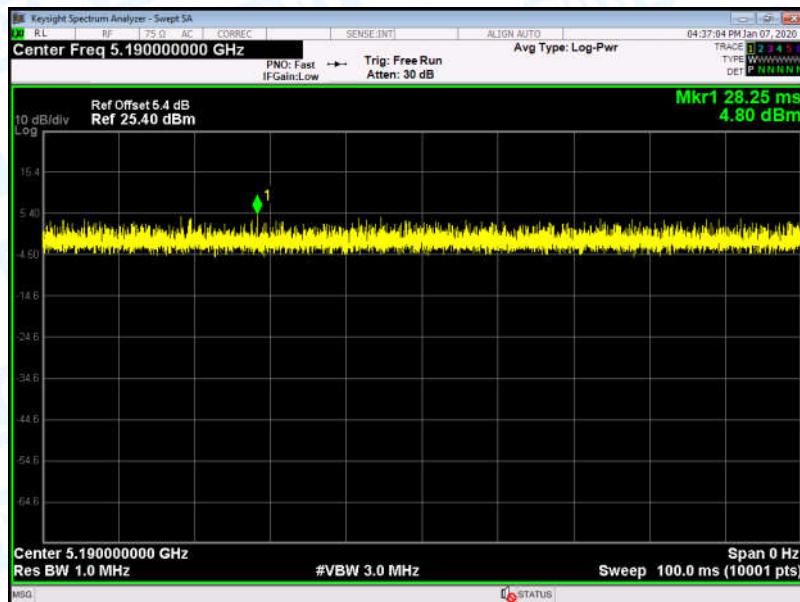
## 802.11 a 5200MHz U-NII-1



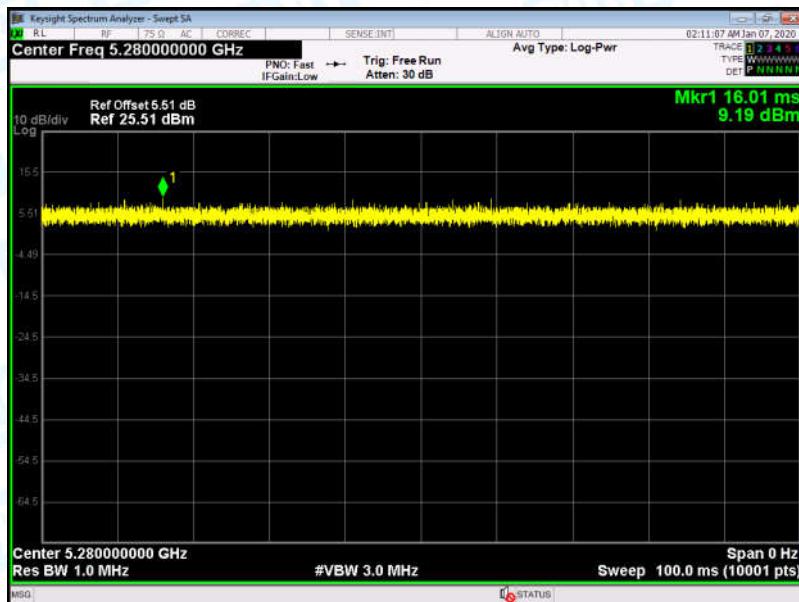
## 802.11 n(HT20) 5200MHz U-NII-1



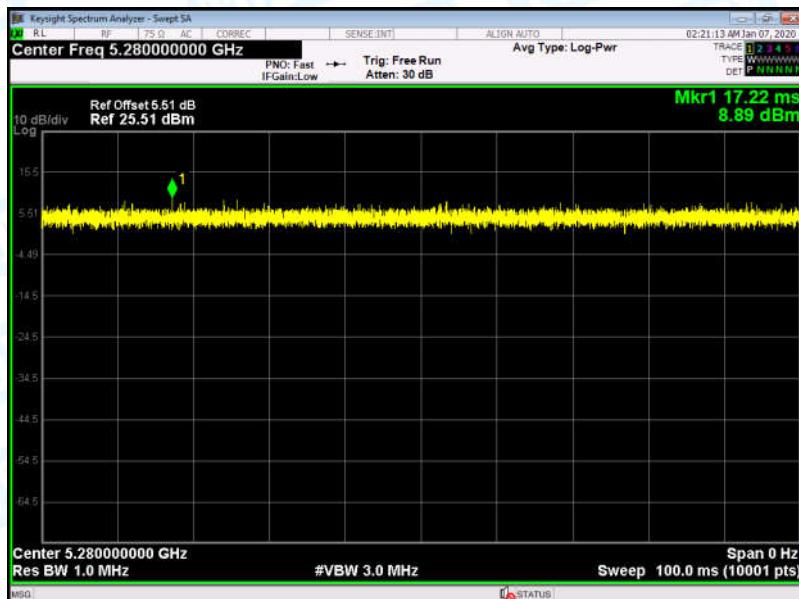
**802.11 ac(vHT20) 5200MHz U-NII-1****802.11 n(HT40) 5190MHz U-NII-1**

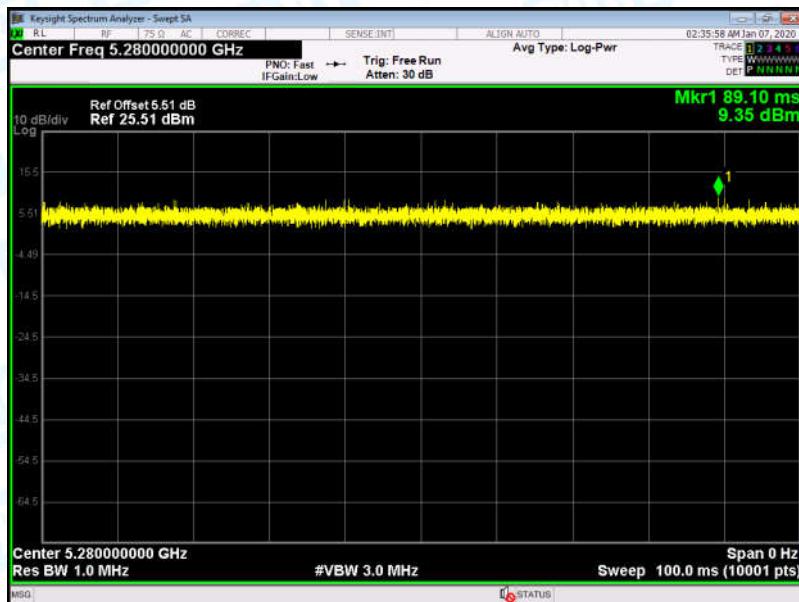
**802.11 ac(vHT40) 5190MHz U-NII-1****802.11 ac(vHT80) 5210MHz U-NII-1**

## 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**