

## 6. 6dB&26dB Bandwidth Test

## 6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
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

6dB Bandwidth should be not less than 500kHz

#### 6.3. Test Procedure

#### 6dB Bandwidth:

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 KHz VBW for signal width below 20MHz and 300KHz RBW ,1MHz VBW for Above 20MHz signal Bandwidth.

#### **26dB Bandwidth:**

The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 KHz 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



#### **U-NII 5180-5240MHz Band:**

#### 6dB bandwidth

Test Mode	СН	6dB bandwidth (MHz)		Limit
1 est wiode	CII	ANT1	ANT2	(KHz)
	CH36	16.56	16.37	>500kHz
11a	CH40	16.44	16.36	>500kHz
	CH48	16.39	16.37	>500kHz
1.1	CH36	17.60	17.61	>500kHz
11n HT20	CH40	17.59	17.60	>500kHz
П120	CH48	17.62	17.60	>500kHz
11n	CH38	36.42	36.37	>500kHz
HT40	CH46	36.49	36.46	>500kHz
1.1	CH36	17.59	17.60	>500kHz
11ac VHT20	CH40	17.60	17.61	>500kHz
V11120	CH48	17.60	17.61	>500kHz
11ac	CH38	36.38	36.30	>500kHz
VHT40	CH46	36.51	36.43	>500kHz
11ac VHT80	CH42	76.09	75.91	>500kHz
Conclusion: P.	ASS			



## 26dB bandwidth

EUT: Complex Set-Top Box		
M/N: P2571		
Test date: 2014-12-20	Pressure: 101.4±1.0 kpa	Humidity: 50.5±3.0%
Tested by: Kobe_Huang	Test site: RF site	Temperature:22.3±0.6 ℃

Test Mode	СН	26dB bandwidth (MHz)		Limit (KHz)	
Test Mode	CII	ANT1	ANT2		
	CH36	24.02	20.78	N/A	
11a	CH40	20.58	20.54	N/A	
	CH48	21.05	20.77	N/A	
11	CH36	21.04	21.04	N/A	
11n HT20	CH40	20.83	20.78	N/A	
11120	CH48	20.83	20.89	N/A	
11n	CH38	39.69	39.58	N/A	
HT40	CH46	39.80	39.81	N/A	
11	CH36	21.00	20.60	N/A	
11ac VHT20	CH40	20.81	20.84	N/A	
V11120	CH48	20.95	20.81	N/A	
11ac	CH38	39.13	39.28	N/A	
VHT40	CH46	39.45	39.20	N/A	
11ac VHT80	CH42	80.22	79.91	N/A	
Conclusion: P.	ASS		<u> </u>		



# **U-NII 5745-5825MHz Band:**

6dB bandwidth

EUT: Complex Set-Top Box		
M/N: P2571		
Test date: 2014-12-20	Pressure: 101.1±1.0 kpa	Humidity: 49.7±3.0%
Tested by: Kobe_Huang	Test site: RF site	Temperature:22.3±0.6 ℃

Test Mode	СН	6dB bandwidth ( MHz )		Limit
1 est iviode	CII	ANT1	ANT2	(KHz)
	CH149	16.42	16.36	>500kHz
11a	CH157	16.54	16.35	>500kHz
	CH165	17.67	16.36	>500kHz
1.1	CH149	17.62	17.60	>500kHz
11n HT20	CH157	17.61	17.61	>500kHz
11120	CH165	17.61	17.62	>500kHz
11n	CH151	36.42	36.59	>500kHz
HT40	CH159	36.40	36.54	>500kHz
1.1	CH149	17.59	17.62	>500kHz
11ac VHT20	CH157	17.61	17.60	>500kHz
V11120	CH165	17.60	17.61	>500kHz
11ac	CH151	36.34	36.59	>500kHz
VHT40	CH159	36.42	36.54	>500kHz
11ac VHT80	CH155	76.27	76.25	>500kHz
Conclusion: P.	ASS			



## 26dB bandwidth

EUT: Complex Set-Top Box		
M/N: P2571		
Test date: 2014-12-14	Pressure: 101.9±1.0 kpa	Humidity: 51.5±3.0%
Tested by: Kobe_Huang	Test site: RF site	Temperature:22.8±0.6 ℃

СН	26dB bandwidth (MHz)		Limit (KHz)
CII	ANT1	ANT2	
CH149	21.98	20.80	N/A
CH157	23.21	20.88	N/A
CH165	20.63	20.74	N/A
CH149	21.41	21.60	N/A
CH157	20.63	20.98	N/A
CH165	21.06	21.34	N/A
CH151	55.09	54.69	N/A
CH159	54.66	56.46	N/A
CH149	21.20	21.05	N/A
CH157	20.76	20.79	N/A
CH165	21.16	20.97	N/A
CH151	42.78	43.96	N/A
CH159	39.48	39.56	N/A
CH155	80.56	79.93	N/A
	CH157 CH165 CH149 CH157 CH165 CH151 CH159 CH157 CH165 CH157 CH165 CH151	CH ANT1  CH149 21.98  CH157 23.21  CH165 20.63  CH149 21.41  CH157 20.63  CH165 21.06  CH151 55.09  CH159 54.66  CH149 21.20  CH157 20.76  CH165 21.16  CH151 42.78  CH159 39.48	CH         (MHz)           ANT1         ANT2           CH149         21.98         20.80           CH157         23.21         20.88           CH165         20.63         20.74           CH149         21.41         21.60           CH157         20.63         20.98           CH165         21.06         21.34           CH151         55.09         54.69           CH159         54.66         56.46           CH149         21.20         21.05           CH157         20.76         20.79           CH165         21.16         20.97           CH151         42.78         43.96           CH159         39.48         39.56



FCC ID:VOB-P2571 U-NII 5180-5240MHz Band: 6dB bandwidth ANT 1 11n HT20 11a 5180MHz 5180MHz Ref 11.00 dBm Center Free Center Free enter 5.18 GHz Res BW 100 kHz Occupied Bandwidth 17.722 MHz 22.0 dBm Transmit Freq Error 10,592 kHz 16.599 MHz Transmit Freq Error 30.082 kHz **OBW Power** 99.00 % x dB Bandwidth 16.56 MHz x dB -6.00 dB 5200MHz 5200MHz Center Freq 5.200000000 GH: Radia Device: 875 Center Fre enter 5.2 GHz Res BW 100 kHz #VBW 300 kHz SHA DOC WEVE 17.696 MHz Occupied Bandwidth Total Power 17.309 kHz 16.533 MHz Transmit Freg Error 99.00 % 17.59 MHz -6.00 dB x dB Transmit Freq Error 15.294 kHz **OBW Power** 99.00 % x dB Bandwidth 16.44 MHz -6.00 dB 5240MHz 5240MHz Ref Offset 11.5 dB Ref 20.00 dBm WHIN DOD KHZ 17.732 MHz 16.544 MHz Transmit Freq Error -9.002 kHz 99.00 % 17.62 MHz -6.00 dB -4.775 kHz 99.00 % 16.39 MHz



FCC ID:VOB-P2571 11n HT40 5190MHz 5200MHz x dB -6.00 dB Ref 0ffset 11.5 dB Ref 11.00 dBm Ref 0ffset 11.5 dB Ref 11.00 dBm Center Free #VBW 300 kHz 36.232 MHz 17.705 MHz 13.055 kHz Transmit Freq Error 120.71 kHz **OBW Power** 99.00 % Transmit Freq Error **OBW Power** 99.00 % 36.42 MHz -6.00 dR 17.60 MHz -6.00 dR 5240MHz 5230MHz Center Fre 5.230000000 GH enter 5.23 GHz Res BW 300 kHz enter 5.24 GHz Res BW 100 kH Occupied Bandwidth 36.295 MHz 17.714 MHz 37.186 kHz Transmit Freq Error 1.397 kHz **OBW Power** 17.60 MHz x dB x dB **11ac VHT20 11ac VHT40** 5180MHz 5190MHz Center Free Center Free enter 5,18 GHz Res BW 100 kHz #VBW 300 kHz #VBW 1 MHz 17.707 MHz 36.253 MHz 10.100 kHz 99.00 % 173.04 kHz 99.00 % Transmit Freg Error **OBW Power** Transmit Freg Error **ORW Power** x dB 17.59 MHz -6.00 dB x dB Bandwidth x dB -6.00 dB





FCC ID:VOB-P2571 U-NII 5180-5240MHz Band: 6dB bandwidth ANT 2 11n HT20 11a 5180MHz 5180MHz ter Freq 5.180000000 GHz Ref Offset 11.5 dB Ref 11.00 dBm Center Free Center 5.18 GHz IRes BW 100 kHz Span 30 MHz Sweep 2,933 ms enter 5.18 GHz Res BW 100 kHz SHA DOC WEVE SHA DOC WEVE 16.539 MHz 17.726 MHz Transmit Freq Error 10.539 kHz 99.00 % Transmit Freq Error 18.795 kHz 99.00 % 16.37 MHz 17.61 MHz 5200MHz 5200MHz Center Free SHA OOC WEVE 16.542 MHz 17.711 MHz 1.643 kHz mit Freq Error 11.279 kHz 17.60 MHz 6.00 dB 5240MHz 5240MHz Ref 0ffset 11.5 dB Ref 11.00 dBm Ref 0ffset 11.5 dB Ref 11.00 dBm Center Free Center Free Occupied Bandwidth Occupied Bandwidth 17.734 MHz 16.539 MHz -10.373 kHz -10.668 kHz 99.00 % 99.00 % **OBW Power** 16.37 MHz 17.60 MHz x dB -6.00 dB x dB -6.00 dB



FCC ID:VOB-P2571 11n HT40 5190MHz 5200MHz x dB -6.00 dB Ref 0ffset 11.5 dB Ref 11.00 dBm Ref 0ffset 11.5 dB Ref 11.00 dBm Center Free Max Hol FVBW 1 MHz EVBW 300 KHZ 36.235 MHz 17.702 MHz 122.15 kHz 6.625 kHz Transmit Freq Error 99.00 % Transmit Freq Error 99.00 % 17.61 MHz 36.37 MHz -6.00 dB -6.00 dB x dB Bandwidth 5230MHz 5240MHz Ref 11.00 dBm Ref Offset 11.5 dB Ref 11.00 dBm OBW Power enter 5.23 GHz tes BW 300 kH EVBW 1 MHz FVBW 300 kHz 17.702 MHz 36.269 MHz -6.126 kHz 30.718 kHz Transmit Freg Error 99.00 % Transmit Freq Error **OBW Power** 99.00 % 17.61 MHz x dB Bandwidth x dB -6.00 dB 36.46 MHz x dR Randwidth -6.00 dB 11ac VHT20 **11ac VHT40** 5180MHz 5190MHz FVBW 300 KHZ 17.709 MHz 36.289 MHz 16.185 kHz 155.92 kHz 17.60 MHz

FCC ID:VOB-P2571 **11ac VHT80** 5210MHz 5230MHz x dB -6.00 dB Ref 0ffset 11.5 dB Ref 11.00 dBm Ref 0ffset 11.5 dB Ref 11.00 dBm Center Free 5.200000000 GH Center 5,21 GHz FRes BW 300 kHz Span 100 MH: Sweep 1.067 ms EVBW 1 MHz 75.387 MHz 36.265 MHz 141.70 kHz 99.00 % 56.778 kHz 99.00 % 75.91 MHz -6.00 dB 36.43 MHz -6.00 dB



AUDIX Technology (Shenzhen) Co., Ltd. FCC ID:VOB-P2571 page U-NII 5180-5240MHz Band: 26dB bandwidth ANT 1 11n HT20 11a 5180MHz 5180MHz Ref Offset 11.5 dB Ref 11.00 dBm Ref 20.00 dBm Center Free SHI DOO KHZ 17.732 MHz 22.2 d8m Occupied Bandwidth Transmit Freq Error 20.877 kHz **OBW Power** 99.00 % 16.626 MHz Transmit Freq Error 40.866 kHz **OBW Power** 99.00 % x dB Bandwidth 24.02 MHz -26.00 dB x dB 5200MHz 5200MHz Ref 20.00 dBm Center Fre Center Free Year colonite Span 30 MHz eep 2.933 ms SHA DOC WEVE 17.715 MHz Total Power 21.6 d8m Occupied Bandwidth 21.141 kHz 16.533 MHz 20.83 MHz 17.473 kHz Transmit Freq Error **OBW Power** 99.00 % 20.58 MHz r dR Randwidth -26.00 dB 5240MHz 5240MHz Ref 20.00 dBm Ref 0ffset 11.6 dB Ref 11.00 dBm Center Free

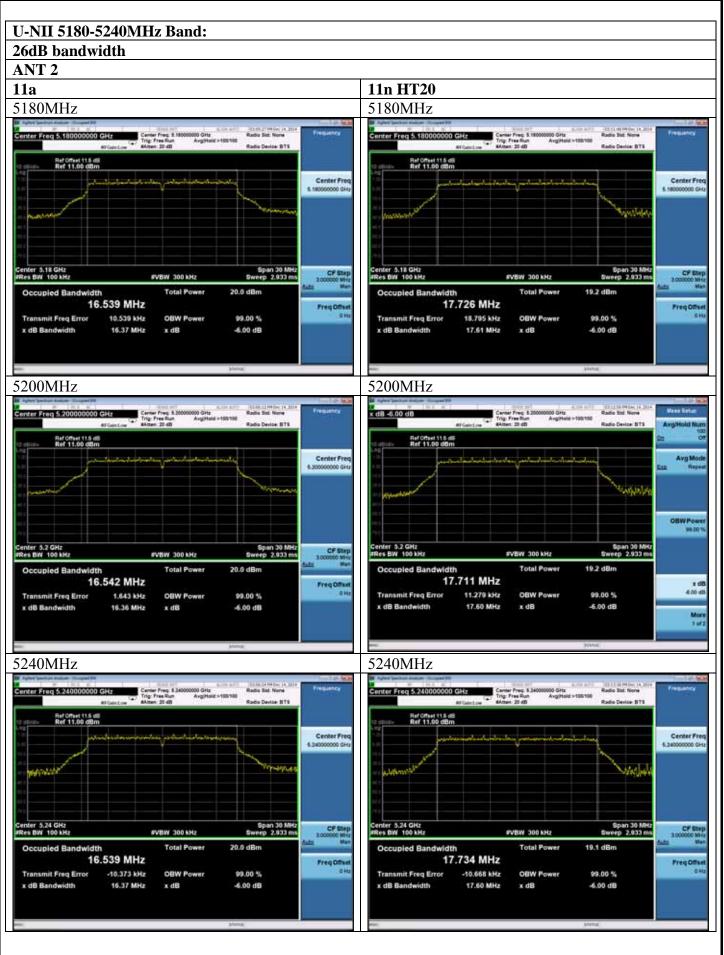




FCC ID:VOB-P2571 11n HT40 5190MHz 5200MHz Ref 0ffset 11.5 dB Ref 11.00 dBm Ref 0ffset 11.5 dB Ref 11.00 dBm Center Free Center Fre Center 5.2 GHz IRes BW 100 kH FVBW 1 MHz EVBW 300 KHZ 36.269 MHz 17.710 MHz 117.47 kHz 9.700 kHz Transmit Freg Error 99.00 % 99.00 % Transmit Freg Error 39.69 MHz -26.00 dB 20.81 MHz -26.00 dB x dB Bandwidth 5230MHz 5240MHz Ref 0ffset 11.5 dB Ref 11.00 dBm Ref Offset 11.5 dB Ref 11.00 dBm OBW Powe enter 5.23 GHz EVBW 1 MHz FVBW 300 kHz 17.717 MHz 36.261 MHz -5.188 kHz Transmit Freg Error 44,106 kHz Transmit Freq Error **OBW Power** 99.00 % 20.95 MHz x dB Bandwidth -26.00 dB 39:80 MHz x dB x dR Randwidth -26.00 dB 11ac VHT20 **11ac VHT40** 5180MHz 5190MHz FVBW 300 KHZ 17.719 MHz 36,250 MHz 160.99 kHz 18.991 kHz 39.13 MHz x dB

FCC ID:VOB-P2571 **11ac VHT80** 5230MHz 5210MHz x dB -26.00 dB Ref 0ffset 11.5 dS Ref 11.00 dBm Ref 11.00 dBm Center Freq 5.230000000 GHz CF Step 6.000000 MHz Mark Genter 5.21 GHz FRes BW 300 kHz EVBW 1 MHz EVBW 1 MHz 36.226 MHz 75.389 MHz 58.682 kHz 169.42 kHz 99.00 % 99.00 % Transmit Freq Error Transmit Freq Error **OBW Power** 39.45 MHz 80.22 MHz -26.00 dB -26.00 dB







FCC ID:VOB-P2571 11n HT40 5190MHz 5200MHz x dB -6.00 dB Ref 0ffset 11.5 dB Ref 11.00 dBm Ref 0ffset 11.5 dB Ref 11.00 dBm Center Free Max Hol FVBW 1 MHz EVBW 300 KHZ 36.235 MHz 17.702 MHz 122.15 kHz 6.625 kHz Transmit Freq Error 99.00 % Transmit Freq Error 99.00 % 17.61 MHz 36.37 MHz -6.00 dB -6.00 dB x dB Bandwidth 5230MHz 5240MHz Ref 11.00 dBm Ref Offset 11.5 dB Ref 11.00 dBm OBW Power enter 5.23 GHz tes BW 300 kH EVBW 1 MHz FVBW 300 kHz 17.702 MHz 36.269 MHz -6.126 kHz 30.718 kHz Transmit Freg Error 99.00 % Transmit Freq Error **OBW Power** 99.00 % 17.61 MHz x dB Bandwidth x dB -6.00 dB 36.46 MHz x dR Randwidth -6.00 dB 11ac VHT20 **11ac VHT40** 5180MHz 5190MHz FVBW 300 KHZ 17.709 MHz 36.289 MHz 16.185 kHz 155.92 kHz 17.60 MHz

FCC ID:VOB-P2571 **11ac VHT80** 5210MHz 5230MHz x dB -6.00 dB Ref 0ffset 11.5 dB Ref 11.00 dBm Ref 0ffset 11.5 dB Ref 11.00 dBm Center Free 5.200000000 GH Center 5,21 GHz FRes BW 300 kHz Span 100 MH: Sweep 1.067 ms EVBW 1 MHz 75.387 MHz 36.265 MHz 141.70 kHz 99.00 % 56.778 kHz 99.00 % 75.91 MHz -6.00 dB 36.43 MHz -6.00 dB



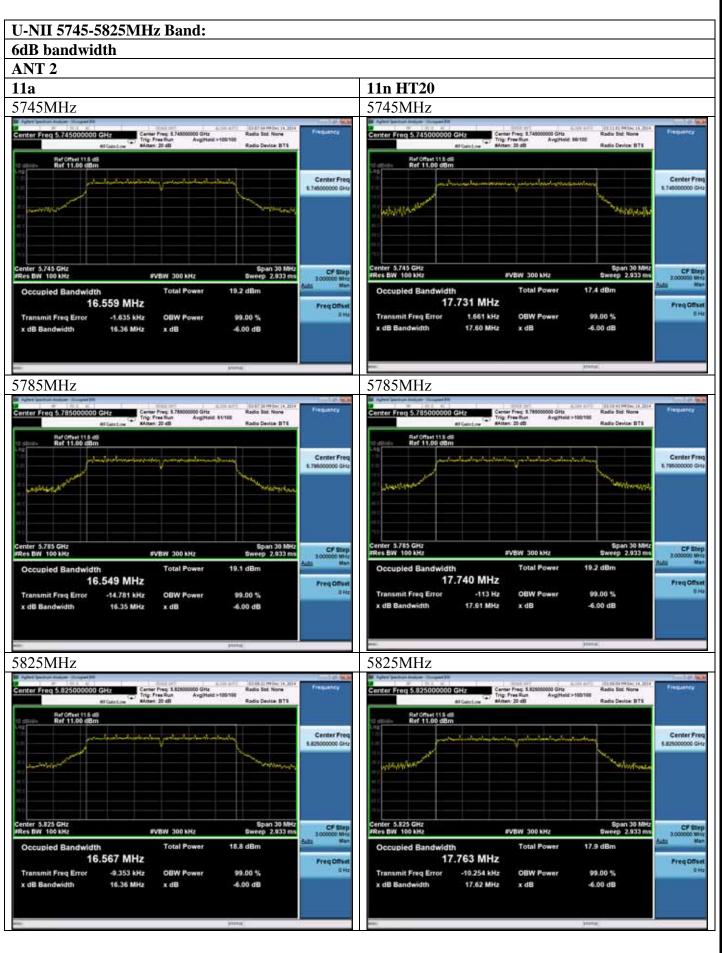
FCC ID:VOB-P2571 page U-NII 5745-5825MHz Band: 6dB bandwidth ANT 1 11a 11n HT20 5745MHz 5745MHz enter Freq 5.745000000 GHz Ref Offset 11.5 dli Ref 20.00 dBm Center Freq Center Free Salaksoff CF Ste FVBW 300 KHZ EVBW 300 kHz 17.740 MHz 21.4 dBm Occupied Bandwidth Transmit Freq Error 210 Hz **OBW Power** 99.00 % 16.559 MHz 17.62 MHz 3.865 kHz Transmit Freq Error **OBW Power** 99.00 % x dB Bandwidth 16.42 MHz x dB -6.00 dB 5785MHz 5785MHz Ref 20.00 dBm Span 30 MH: Sweep 2.933 ms Occupied Bandwidth SHE SOO KHZ 17.731 MHz Total Power 19.0 dBm Occupied Bandwidth -11.241 kHz 16.574 MHz x dB Bandwidth 17.61 MHz -6.00 dB x dB Transmit Freq Error 28.681 kHz **OBW Power** 99.00 % 16.54 MHz -6.00 dB 5825MHz 5825MHz Ref 11.00 dBm Ref Offset 11.5 dB Ref 20.00 dBm Center Free Center Free FVEW 300 KHZ EVBW 300 kHz Occupied Bandwidth 17.749 MHz 22.0 dBm 2.766 kHz **OBW Power** 99.00 % 17.751 MHz Transmit Freg Error 17.61 MHz -6.00 dB x dB Bandwidth x dB smit Freq Error 2.507 kHz OBW Power 99.00 % 17.67 MHz x dB -6.00 dB



FCC ID:VOB-P2571 11n HT40 5785MHz 5755MHz x dB -6.00 dB Ref 11.00 dBm Ref 11.00 dBm Center Free A STATE OF THE PARTY OF Center 5.785 GHz IRes BW 100 kHz FVEW 1 MHz FVBW 300 kHz 36.314 MHz 17.728 MHz 80.668 kHz -79 Hz 99.00% Transmit Freg Error 99.00 % mit Freg Error **OBW Power OBW Power** 36.42 MHz -6.00 dB x dB Bandwidth 17.61 MHz x dB -6.00 dB 5795MHz 5825MHz Ref 11.00 dBm Ref 11.00 dBm Center Free 5.825000000 GHz Makely Res BW 100 kH FVEW 1 MHz FVBW 300 kHz 18.7 dBm 17.4 dBm 36.199 MHz 17.734 MHz 30.079 kHz -6.919 kHz Transmit Freq Error **OBW Power** 99.00 % Transmit Freq Error **OBW Power** 99.00 % 36.40 MHz 17.60 MHz x dR Randwidth -6.00 dB x dR Randwidth Rb x -6.00 dB 11ac VHT20 **11ac VHT40** 5745MHz 5755MHz Center Free FVBW 300 kHz 17.718 MHz 36.300 MHz 9.315 kHz 116.59 kHz 17.59 MHz

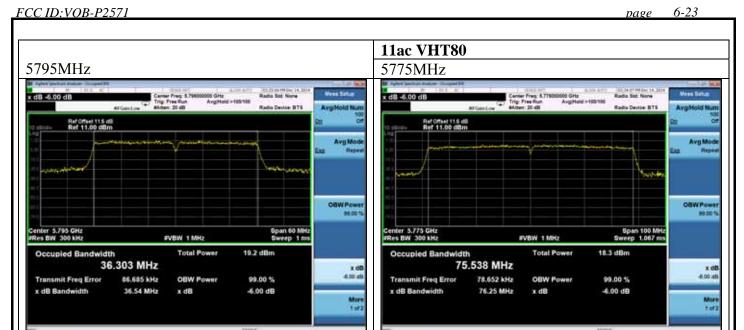
FCC ID:VOB-P2571 **11ac VHT80** 5795MHz 5775MHz Ref 11.00 dBm Ref 11.00 dBm Center Free 5.795000000 GH Center Fro 5.775000000 Gr CF Step 6.000000 MH Center 5.775 GHz #Res BW 300 kHz Span 100 MHz Sweep 1,067 ms FVEW 1 MHz FVBW 1 MHz 36.248 MHz 75.480 MHz 79.732 kHz 78.153 kHz 99.00 % 99.00 % **OBW Power** Transmit Freq Error **OBW Power** 36.42 MHz 76.27 MHz -6.00 dB -6.00 dB







FCC ID:VOB-P2571 11n HT40 5755MHz 5785MHz x dB -6.00 dB Ref 0ffset 11.5 dB Ref 11.00 dBm Ref 0ffset 11.5 dB Ref 11.00 dBm Center Fre FVBW 1 MHz EVBW 300 KHZ 36.369 MHz 17.705 MHz 89.922 kHz 3.740 kHz 99.00 % Transmit Freq Error 99.00 % smit Freg Error 17.60 MHz 36.47 MHz -6.00 dB -6.00 dB x dB Bandwidth 5795MHz 5825MHz Ref 0ffset 11.5 dB Ref 11.00 dBm Ref 0ffset 11.5 dB Ref 11.00 dBm EVBW 1 MHz FVBW 300 kHz 17.746 MHz 36.310 MHz -3.913 kHz 8.607 kHz Transmit Freg Error 99.00 % Transmit Freq Error **OBW Power** 99.00 % 17.61 MHz x dB Bandwidth -6.00 dB 36.45 MHz x dB x dR Randwidth -6.00 dB 11ac VHT20 **11ac VHT40** 5745MHz 5755MHz Center Fre FVBW 300 KHZ 17.769 MHz 36.353 MHz 4.778 kHz 124.64 kHz 17.62 MHz





FCC ID:VOB-P2571 U-NII 5745-5825MHz Band: 26dB bandwidth ANT 1 11n HT20 11a 5745MHz 5745MHz Ref 0ffeet 11.6 dB Ref 11.00 dBm Ref 20.00 dBm Center Free FVBW 300 kHz 17.749 MHz Occupied Bandwidth Transmit Freq Error 2.987 kHz **OBW Power** 99.00 % 16.541 MHz Transmit Freq Error 7.204 kHz **OBW Power** 99.00 % x dB Bandwidth 21.98 MHz -26.00 dB x dB 5785MHz 5785MHz Ref 20.00 dBm Center Free Span 30 MHz eep 2.933 ms SHA DOC WEVE 17.719 MHz Total Power 19.8 dBm Occupied Bandwidth -5.484 kHz 16.568 MHz Transmit Freq Error 25.727 kHz **OBW Power** 99.00 % 23.21 MHz y dB Bandwidth -26.00 dB 5825MHz 5825MHz Ref 20.00 dBm Ref 0ffset 11.6 dB Ref 11.00 dBm Center Free Span 30 Metz eep 2.933 ms enter 5.825 GHz Res BW 100 kHz Occupied Bandwidth #VBW 300 kHz 17.747 MHz **Total Power** -58 Hz 99.00 % **OBW Power** 17.734 MHz 21.06 MHz x dB -26.00 dB 2.476 kHz mit Freq Error **OBW Power** 99.00 % 20.63 MHz x dB -26.00 dB

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FCC ID:VOB-P2571 11n HT40 5755MHz 5785MHz Ref 11.00 den Ref 0ffset 11.5 dB Ref 11.00 dBm Center Fre Center Fre 17.735 MHz 36.345 MHz 737 Hz 83.170 kHz 99.00 % Transmit Freq Error **OBW Power** 20.76 MHz -26.00 dB 55.09 MHz x dB -26.00 dR 5795MHz 5825MHz Ref Offset 11.6 dB Ref 11.60 dBm Ref Offset 11.5 dB Ref 11.00 dBm March Porch FVBW 300 kHz EVBW 1 MHz 17.738 MHz 36.212 MHz -9.367 kHz Transmit Freq Error 99.00 % smit Freq Error 32.785 kHz **OBW Power** 99.00 % **OBW Power** 21.16 MHz 54.66 MHz x dB Bandwidth -26.00 dB 11ac VHT20 **11ac VHT40** 5745MHz 5755MHz Center Free FVBW 300 kHz Occupied Bandwidth 17.745 MHz 36.331 MHz 10.570 kHz 99.00 % 102.98 kHz

FCC ID:VOB-P2571 **11ac VHT80** 5795MHz 5775MHz x dB -26.00 dB Ref 11.00 dBm Ref 0ffset 11.5 dB Ref 11.00 dBm Center 5.775 GHz Res BW 300 kHz Span 100 MH: Sweep 1.067 ms EVBW 1 MHz 75.556 MHz 36.210 MHz 75.564 kHz 64.134 kHz 99.00 % 99.00 % -26.00 dB 39.48 MHz -26.00 dB







FCC ID:VOB-P2571 11n HT40 5755MHz 5785MHz Ref 0ffset 11.6 dB Ref 11.00 dBm Ref 0ffset 11.5 dB Ref 11.00 dBm Center Fre Center Free FVBW 1 MHz EVBW 300 KHZ 36.314 MHz 17.721 MHz 85.554 kHz -6.544 kHz 99.00 % 99.00 % Transmit Freg Error 54.69 MHz 20.79 MHz -26.00 dB -26.00 dB x dB Bandwidth 5795MHz 5825MHz Ref 11.00 dBm Ref 0ffset 11.5 dB Ref 11.00 dBm Center Free EVBW 1 MHz FVBW 300 kHz 17.737 MHz 36.271 MHz -1.836 kHz 35.652 kHz Transmit Freg Error Transmit Freq Error **OBW Power** 99.00 % 20.97 MHz x dB Bandwidth -26.00 dB x dB x dR Randwidth 56.46 MHz -26.00 dB 11ac VHT20 **11ac VHT40** 5745MHz 5755MHz Center Fre FVBW 300 KHZ 17.695 MHz 36.368 MHz 146.78 kHz 3.624 kHz 43.96 MHz x dB

FCC ID:VOB-P2571 **11ac VHT80** 5775MHz 5795MHz Ref 0ffset 11.6 d8 Ref 11.60 d8m Ref 0ffset 11.5 dB Ref 11.00 dBm Center Fred 5.795000000 GH Center Free Center 5,775 GHz Res BW 300 kHz Span 100 MHz Sweep 1.067 ms EVBW 1 MHz 75.529 MHz 36.348 MHz 102.99 kHz 99.00 % 102.16 kHz 99.00 % 79.93 MHz -26.00 dB 39.56 MHz -26.00 dB



#### 7. OUTPUT POWER TEST

## 7.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
2.	Power meter	Anritsu	ML2487A	6K00002472	April 28,14	1Year
3.	Power sensor	Anritsu	MA2491A	0033005	April 28,14	1Year
4.	Attenuator (20dB)	Agilent	8491B	MY39262165	April 28,14	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	April 28,14	1 Year

#### 7.2.Limit

For an access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 250mW (24dBm)provided the maximum antenna gain does not exceed 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

#### 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 power meter which's bandwidth is 20MHz and above the bandwidth of signal to measure out each test mode's output power.
- 3. For IEEE802.11n HT40, 802.11ac VHT40 and 802.11ac VHT80 mode, since the signal's bandwidth is nearly 40MHz which is above 20MHz bandwidth of power sensor ML2491A. So use the test method described in KBD789033 clause E Method SA-1
  - 1) Connect the antenna port to the spectrum analyzer and Set span of the spectrum to encompass the entire emission bandwidth (EBW) of the signal.
  - 2) Set the RBW=1MHz and VBW =3MHz
  - 3) Number of points in sweep  $\geq 2$  Span / RBW
  - 4) Detector = RMS
  - 5) Sweep time = auto couple
  - 6) Allow the sweep to "free run" and set the Trace average at least 100 traces in power averaging (i.e., RMS) mode.
  - 7) Compute power by integrating the spectrum across the 26 dB EBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW band edges.

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



## 7.4.Test Results

### **U-NII 5180-5240MHz Band:**

EUT: Complex Set-Top Box		
M/N: P2571		
Test date: 2015-01-12	Pressure: 101.2±1.0 kpa	Humidity: 50.3±3.0%
Tested by: Kobe_Huang	Test site: RF site	Temperature:22.4±0.6 ℃

Test	Frequency	Maximum Conducted Output Power (dBm)			Limit (dBm)	
Mode	(MHz)	ANT1	ANT2	Total	ANT1	ANT2
	5180	14.06	14.37	N/A	23.91	23.07
11a	5200	13.80	13.87	N/A	23.91	23.07
	5240	14.20	14.42	N/A	23.91	23.07
1.1	5180	9.26	9.36	12.32	20.47	/23.47
11n HT20	5200	9.13	9.39	12.27	20.47	/23.47
П120	5240	9.34	9.71	12.54	20.47	/23.47
11n	5190	12.03	12.35	15.20	20.47	/23.47
HT40	5230	12.71	12.88	15.81	20.47	/23.47
1.1	5180	11.79	12.04	14.93	20.47	/23.47
11ac VHT20	5200	11.50	11.83	14.68	20.47	/23.47
V П 1 2 0	5240	11.21	11.47	14.35	20.47	/23.47
11ac VHT40	5190	12.71	13.13	15.94	20.47	/23.47
	5230	12.62	13.26	15.96	20.47	/23.47
11ac VHT80	5210	12.85	12.97	15.92	20.47	/23.47
Conclusion:	PASS					

#### Note:

For 11n/ac Mode,

- 1. Correlated signal, Direction Gain= $10\log[(10^{G1/20}+10^{G2/20})^2/N_{ANT}]=9.53$ dBi The limit=24dBm-(9.53-6)dBi=20.47dBm
- 2.Uncorrelated Signal, Direction Gain=10log[(10<sup>G1/10</sup>+10<sup>G2/10</sup>)/N<sub>ANT</sub>]=6.53dBi The limit=24dBm-(6.53-6)dBi=23.47dBm



#### **U-NII 5745-5825MHz Band:**

EUT: Complex Set-Top Box		
M/N: P2571		
Test date: 2015-01-13	Pressure: 101.52±1.0 kpa	Humidity: 50.3±3.0%
Tested by: Kobe_Huang	Test site: RF site	Temperature:22.4±0.6 ℃

Test Mode	Frequency (MHz)	Maximum Conducted Output Power (dBm)			Limit (dBm)	
		ANT1	ANT2	Total	ANT1	ANT2
11a	5745	13.44	13.85	N/A	29.85	29.01
	5785	17.89	18.29	N/A	29.85	29.01
	5825	14.76	15.39	N/A	29.85	29.01
11n HT20	5745	11.41	11.90	14.67	26.41/29.41	
	5785	17.18	17.67	20.44	26.41/29.41	
	5825	14.86	15.25	18.07	26.41/29.41	
11n HT40	5755	8.60	9.00	11.81	26.41/29.41	
	5795	13.79	14.04	16.93	26.41/29.41	
11ac VHT20	5745	10.39	10.66	13.54	26.41/29.41	
	5785	17.84	17.91	20.89	26.41/29.41	
	5825	14.65	14.72	17.70	26.41/29.41	
11ac VHT40	5755	8.60	8.93	11.78	26.41/29.41	
	5795	13.78	14.00	16.90	26.41/29.41	
11ac VHT80	5775	10.01	10.31	13.17	26.41/29.41	
Conclusion:	PASS					

#### Note:

For 11n/ac Mode,

- 1. Correlated signal, Direction Gain= $10\log[(10^{G1/20}+10^{G2/20})^2/N_{ANT}]=9.59$ dBi
- The limit=30dBm-(9.59-6)dBi=26.41dBm
- 2.Uncorrelated Signal, Direction Gain= $10\log[(10^{G1/10}+10^{G2/10})/N_{ANT}]=6.59dBi$  The limit=30dBm-(6.59-6)dBi=29.41dBm

page



FCC ID:VOB-P2571

U-NII 5180-5240MHz Band: ANT 1 11n HT40 5190MHz 5230MHz Center Freq \$.180000000 mass Center Freq 5.230000000 GHs enter 5.19 GHz Res BW 1 MHz Center 5.23 GHz ≢Res BW 1 MHz Power Spectral Density Channel Power Power Spectral Density 12.03 dBm / 37 MHz -63.26 dBm /Hz 12.62 dBm / 37 MHz -62.61 dBm /Hz **11ac VHT80** 5210MHz 5230MHz Ref 20.00 dBm Ref 20.00 dBm Center Freq 5.230000000 GHz FVBW 3 MHz SHM C MBV# Channel Power Power Spectral Density Channel Power Power Spectral Density 12.71 dBm / 37 MHz -62.97 dBm /Hz -65.58 dBm /Hz 12.85 dBm / 77 MHz 11acVHT40 5190MHz Center Free WVBW 3 MHz Channel Power Power Spectral Density 12.71 dBm / 37 MHz -61.01 dBm /Hz

page



FCC ID:VOB-P2571

U-NII 5180-5240MHz Band: ANT 2 11n HT40 5190MHz 5230MHz Ref Offset 11.5 dB Ref 20.00 dBm Ref 20.00 dBm Center Freq \$.180000000 mars Center Fred 5.230000000 GHz enter 5.19 GHz Res BW 1 MHz FVBW 3 MHz Channel Power Power Spectral Density **Power Spectral Density** -61.12 dBm /Hz 12.35 dBm / 37 MHz -63.24 dBm /Hz 13.26 dBm / 37 MHz **11ac VHT80** 5210MHz 5230MHz Ref 20.00 dBm Ref 20.00 dBm Center Freq 5.230000000 GHz Center Free 5.210000000 GH FVBW 3 MHz Power Spectral Density Channel Power Power Spectral Density 12.97 dBm / 77 MHz -65.39 dBm /Hz 12.88 dBm / 37 MHz -63.33 dBm /Hz 11acVHT40 5190MHz WVBW 3 MHz Channel Power Power Spectral Density 13.13 dBm / 37 MHz -61.61 dBm /Hz



Channel Power

8.60 dBm / 37 MHz

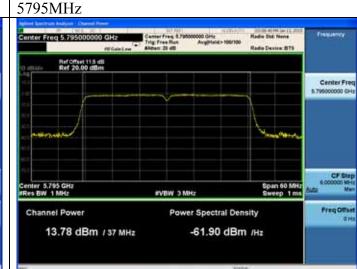
FCC ID:VOB-P2571 page 7-6

U-NII 5745-5825MHz Band:
ANT 1

11n HT40

5755MHz

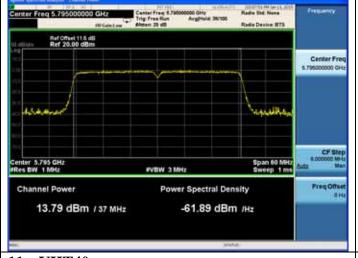
| Section of Market | December Free | 150000000 OHz | The Free | 15000000 OHz | 1500



# 5795MHz 11ac VHT80 5775MHz 5775MHz

Power Spectral Density

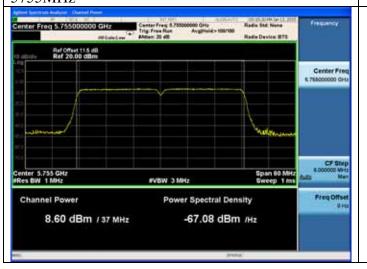
-67.08 dBm /Hz





#### 11acVHT40

### 5755MHz





FCC ID:VOB-P2571 page U-NII 5745-5825MHz Band: ANT 2 11n HT40 5755MHz 5795MHz Ref Offset 11.5 dB Ref 20.00 dBm Center Fred Center Freq 5.756000000 GHz Center 5.755 GHz #Res BW 1 MHz FVBW 3 MHz Channel Power Power Spectral Density **Channel Power Power Spectral Density** -61.68 dBm /Hz 9.00 dBm / 37 MHz -66.69 dBm /Hz 14.00 dBm / 37 MHz 5795MHz **11ac VHT80** 5775MHz Ref 20.00 dBm Center Fred Center Fred 5.775000000 GHz EMM S MHZ Channel Power Power Spectral Density Channel Power Power Spectral Density 14.04 dBm / 37 MHz -61.64 dBm /Hz -68.55 dBm /Hz 10.31 dBm / 77 MHz 11acVHT40 5755MHz SHIM C MBV# Channel Power **Power Spectral Density** 8.93 dBm / 37 MHz -66.76 dBm /Hz

FCC ID:VOB-P2571 page 8-1

## 8. SPECTRAL DENSITY TEST

### 8.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	Apr. 28,14	1 Year
2.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
3.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,14	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	Apr. 28,14	1 Year

#### 8.2.Limit

For an access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500kHz band.

### 8.3.Test Procedure

For the Band 5.15-5.25GHz:

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.

For the band 5.725-5.85 GHz:

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

So use the test method described in KDB789033 clause E

- 1) Set the RBW=100kHz and VBW =3MHz
- 2) Number of points in sweep  $\geq$  2 Span / RBW.(This ensures that bin-to-bin spacing is  $\leq$  RBW/2, so that narrowband signals are not lost between frequency bins.)
- 3) Sweep time = auto
- 4) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- 5) Use the "peak search" function of spectrum analyzer find the max value, then add 10log (500kHz/RBW) to the measured result.

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



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### 8.4. Test Results

## U-NII 5180-5240MHz Band:

EUT: Complex Set-Top Box						
M/N: P2571	M/N: P2571					
Test date: 2015-01-12	Pressure: 101.1±1.0 kpa	Humidity:51.5±3.0%				
Tested by: Kobe_Huang	Test site: RF site	Temperature:22.5±0.6 °C				

Test Mode	Frequency (MHz)	Power density (dBm/MHz)			Limit (dBm/MHz)	
		ANT1	ANT2	Total	ANT1	ANT2
11a	5180	2.738	3.002	N/A	10.91	10.07
	5200	2.755	3.055	N/A	10.91	10.07
	5240	2.740	2.914	N/A	10.91	10.07
	5180	-0.046	0.372	3.18	7.47/10.47	
11n HT20	5200	-0.020	0.143	3.07	7.47/10.47	
	5240	-0.036	0.132	3.06	7.47/10.47	
11n HT40	5190	-0.973	-0.841	2.10	7.47/10.47	
11n H140	5230	-1.731	-1.71	1.29	7.47/10.47	
	5180	-0.051	0.387	3.18	7.47/10.47	
11ac VHT20	5200	-0.139	-0.059	2.91	7.47/10.47	
V11120	5240	-0.010	0.046	3.03	7.47/10.47	
11ac VHT40	5190	-0.54	-0.45	2.52	7.47/10.47	
	5230	-1.287	-0.972	1.88	7.47/10.47	
11ac VHT80	5210	-4.004	-3.403	-0.68	7.47/10.47	
Conclusion:	PASS					

#### Note:

For 11n/ac Mode,

1. Correlated signal, Direction Gain= $10\log[(10^{G1/20}+10^{G2/20})^2/N_{ANT}]=9.53$ dBi
The limit=11dBm/MHz (9.53.6)dBi=7.47dBm/MHz

The limit=11dBm/MHz-(9.53-6)dBi=7.47dBm/MHz 2.Uncorrelated Signal, Direction Gain= $10\log[(10^{G1/10}+10^{G2/10})/N_{ANT}]$ =6.53dBi The limit=11dBm/MHz-(6.53-6)dBi=10.47dBm/MHz



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#### U-NII 5745-5825MHz Band:

EUT: Comp	lex Set-Top Box						
M/N: P2571							
Test date: 20	)14-12-30	Pressure: 10	1.7±1.0 kpa	Humidity	Humidity:51.6±3.0%		
Tested by: Kobe_Huang		Test site: RF	site	Tempera	Temperature:22.4±0.6 °C		
Test Mode	Frequency (MHz)		Power density dBm/500KHz)		Limit (dBm/500KHz)		
		ANT1	ANT2	Total	ANT1	ANT2	
	5745	8.687	9.391	N/A	29.85	29.01	
11a	5785	12.986	13.849	N/A	29.85	29.01	
	5825	10.287	11.21	N/A	29.85	29.01	
	5745	3.515	6.196	8.07	26.41/29.41		
11n HT20	5785	10.941	12.969	15.08	26.41/29.41		
	5825	8.426	10.565	12.64	26.41/29.41		
11n HT40	5755	-1.319	1.125	3.08	26.41/29.41		
1111 11140	5795	5.096	7.415	9.42	26.41/29.41		
1.1	5745	3.651	6.181	8.11	26.41/29.41		
11ac VHT20	5785	11.271	13.261	15.39	26.41/29.41		
V11120	5825	7.76	10.566	12.40	26.41/29.41		
11ac VHT40	5755	-1.08	1.028	3.11	26.41/29.41		
	5795	5.559	7.672	9.75	26.41/	29.41	
11ac VHT80	5775	-1.904	1.439	3.09	26.41/	29.41	
Conclusion:	PASS						

#### Note:

- 1. For 11n/ac Mode,
  - 1.Correlated signal, Direction Gain= $10\log[(10^{G1/20}+10^{G2/20})^2/N_{ANT}]=9.59dBi$ The limit=30dBm/MHz-(9.59-6)dBi=26.41dBm
  - 2.Uncorrelated Signal, Direction Gain= $10\log[(10^{G1/10}+10^{G2/10})/N_{ANT}]=6.59$ dBi The limit=30dBm/MHz-(6.59-6)dBi=29.41dBm
- 2. Correction factor =10log(500kHz/100kHz)=6.9897

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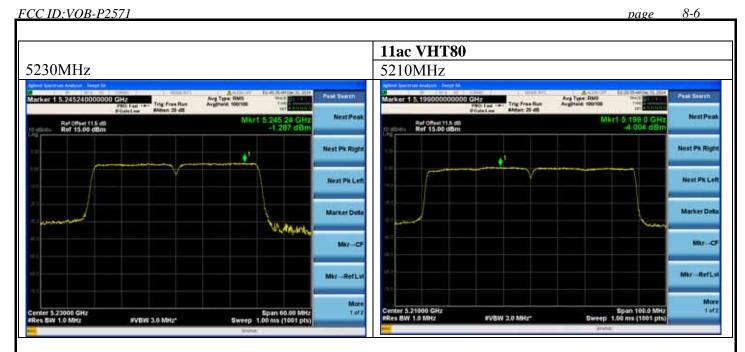
U-NII 5180-5240MHz Band: ANT 1 11a 11n HT20 5180MHz 5180MHz Ang Type RMS Angithese tourse Ref 11.50 dBm Ref Offset 11.5 dB Ref 11.50 dBm EVEW 3.0 MHz\* EVEW 3.0 MHz\* 5200MHz 5200MHz Ang Type RMS Aughters toprox Ang Type RMS Angittale 100110 Ref Offset 11.5 dB Ref 11.50 dBm Ref 11.50 dBm Center 5.20000 GHz #Res BW 1.0 MHz FVBW 3.0 MHz 5240MHz 5240MHz rker 1 5.241740000000 GHz arker 1 5.244380000000 GHz Ang Type RMS Available 100/100 Ang Type RMS Available 1000100 Ref 11.50 dBm Ref Offset 11.5 dB Ref 11.50 dBm Marker Delta FVBW 3.0 MHz\*



FCC ID:VOB-P2571

11n HT40 5190MHz 5200MHz Avg Type: RMS Avgitted: 100110 Ang Type RMS Angitted: 100/100 Ref 11.50 dBm Ref 0ffset 11.5 dB Ref 15.00 dBm Mir-RefLv Mkr-RefLy Res BW 1.0 MHz Center 5.19000 GHz IRes BW 1.0 MHz #VBW 3.0 MHz\* 5230MHz 5240MHz orker 1 5.235400000000 GHz Marker 1 5.23817000 Ref Offset 11.5 dB Ref 15.00 dBm .235 40 GH -1.731 dB Ref 0ffset 11.5 dB Ref 11.50 dBm Next Pk Righ Next Pk Let Next Pk Let Mir-RefLv Mkr-RefLy Center 5.23000 GHz #Res BW 1.0 MHz EVBW 3.0 MHz\* FVBW 3.0 MHz\* 11ac VHT20 11ac VHT40 5180MHz 5190MHz ker 1 5.187350000000 GHz PRO-Feet --- Trig Free Run Allman 29 dB Ang Type RMS Angifest 100110 Avg Type RMS Avgittane 100110 Ref Offset 11.5 dB Ref 11.50 dBm Ref 0ffset 11.5 dB Ref 15.00 dBm Next Pk Righ Marker Delta Marker Det Mir Refly Center 5.18000 GHz IRes BW 1.0 MHz #VBW 3.0 MHz\* FVBW 3.0 MHz\*

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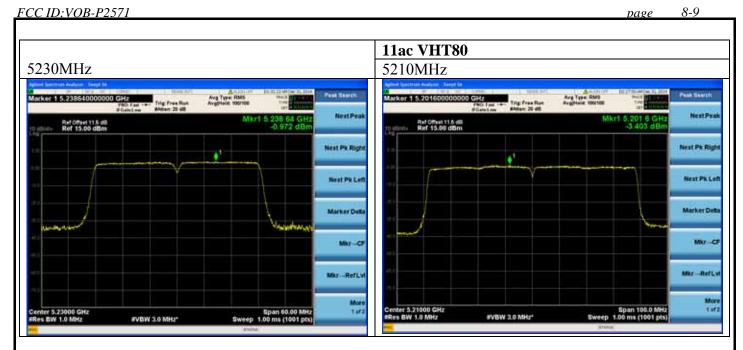




FCC ID:VOB-P2571 page U-NII 5180-5240MHz Band: ANT 2 11a 11n HT20 5180MHz 5180MHz Ang Type RMS Aughters 100/10 Ang Type: RMS Angitteld: 100/100 Ref 11.50 dBm Ref 0ffset 11.5 dB Ref 11.50 dBm EVEW 3.0 MHz\* 5200MHz 5200MHz Ang Type RMS Aughters tours Ang Type RMS Angittale 100110 Ref Offset 11.5 dB Ref 11.50 dBm Ref 11.50 dBm Center 5.20000 GHz #Res BW 1.0 MHz FVBW 3.0 MHz 5240MHz 5240MHz rker 1 5.238500000000 GHz arker 1 5.243060000000 GHz Ang Type RMS Available 1000100 Ang Type RMS Available toproof 238 50 G 2.914 di 0.132 d Ref 11.50 dBm Ref Offset 11.5 dB Ref 11.50 dBm Marker Delta FVBW 3.0 MHz\*

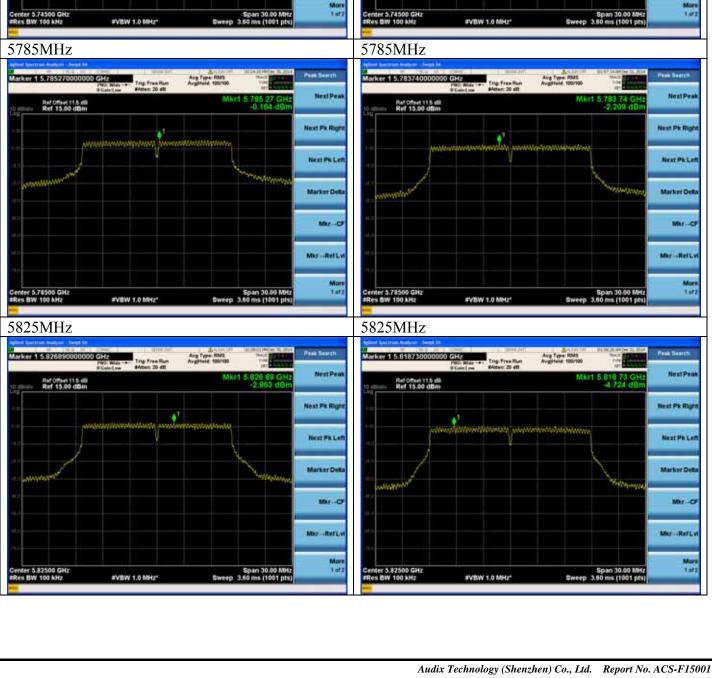
# AUDIX Technology (Shenzhen) Co., Ltd.

FCC ID:VOB-P2571 page 11n HT40 5190MHz 5200MHz Ang Type RMS Angitteld, 100/100 Ref 11.50 dBm Ref 0ffset 11.5 dB Ref 15.00 dBm Mir-RefLv Res BW 1.0 MHz Center 5.19000 GHz IRes BW 1.0 MHz EVBW 3.0 MHz 5230MHz 5240MHz riker 1 5.244460000000 GHz Marker 1 5 24456000 Ref Offset 11.5 dB Ref 15.00 dBm Ref 0ffset 11.5 dB Ref 11.50 dBm Next Pk Righ Next Pk Let Next Pk Let Mir-RefLy Mkr-RefLy Center 5.23000 GHz FRes BW 1.0 MHz EVBW 3.0 MHz\* FVBW 3.0 MHz\* 11ac VHT20 11ac VHT40 5180MHz 5190MHz ker 1 5.181830000000 GHz Avg Type: RMS Avgittede: 100/10 Ang Type RMS Angifest 100110 PAGE Fact --- Trig Free Run page 20 dll Ref Offset 11.5 dB Ref 11.50 dBm Ref Offset 11.5 dil Ref 15,00 dBm Marker Delta Marker Delt FVBW 3.0 MHZ FVBW 3.0 MHz\*





AUDIX Technology (Shenzhen) Co., Ltd. FCC ID:VOB-P2571 page U-NII 5745-5825MHz Band: ANT 1 11a 11n HT20 5745MHz 5745MHz rker 1 5.743110000000 GHz Avg Type RMS AvgState 100/10 Ref 0fted 115 dB Ref 15.00 dBm Ref 0ffset 11.5 dB Ref 15.00 dBm Marker Det More 1 of 2 #VBW 1.0 MHz\* #VBW 1.0 MHz\* 5785MHz 5785MHz Avg Type RMS Aveilage 100/10 Ang Type RMS Available 100/10 5.785 27 GH -0.164 dB Ref Offset 11.5 dB Ref 15.00 dBm Ref 0ffset 11.5 dB Ref 15.00 dBm Next Pk Lef Next Pk Lef Center 5.78500 GHz TRes BW 100 kHz #VBW 1.0 MHz\* #VBW 1.0 MHz\* 5825MHz 5825MHz Marker 1 5.818730000000 GHz Avg Type Rids Avgitted topics Ang Type RMS Ref Offset 11.5 dB Ref 15.00 dBm Ref 0ffset 11.5 dB Ref 15.00 dBm



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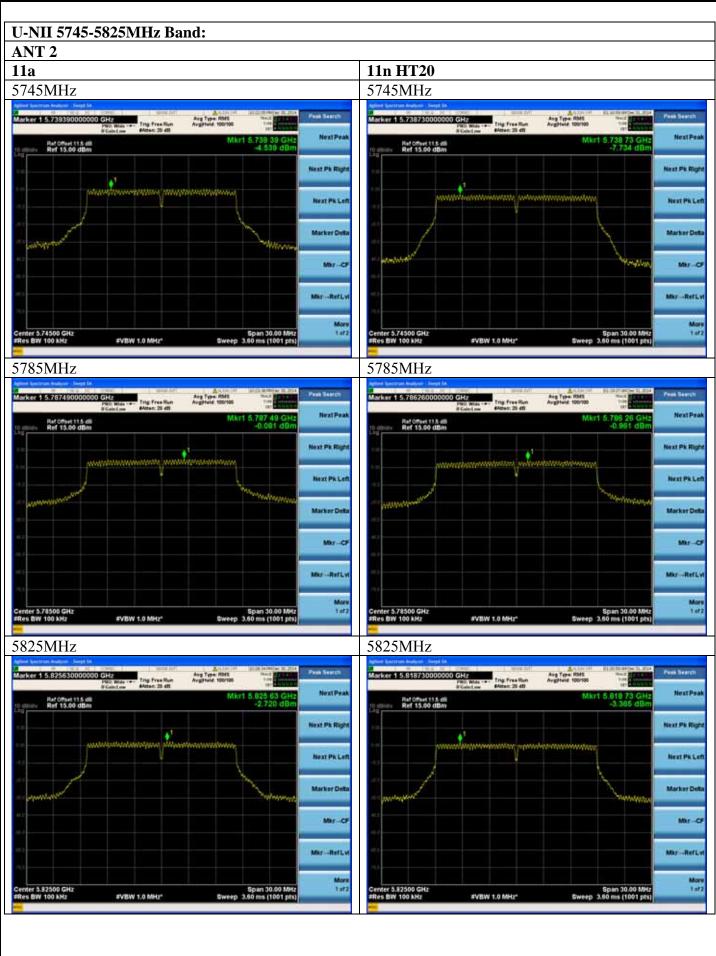
FCC ID:VOB-P2571

11n HT40 5755MHz 5785MHz Avg Type RMS AvgSteld 100/100 Ang Type RMS Avgitule toors 5.749 36 G -14.469 dB Ref 0fted 115 dB Ref 15.00 dBm Ref 0ffset 11.5 dB Ref 15.00 dBm Micr -- Refl.v Mkr -- RefLy #VBW 1.0 MHz\* 5795MHz 5825MHz arker 1 5.832470000000 GHz Aug Type R545 Augitule 10070 Avg Type RMS Avgitted 100/10 Ref 0ffset 11.5 dB Ref 15.00 dBm Ref 0ffset 11.5 dB Ref 15.00 dBm Marker Det More tata #VBW 1.0 MHz\* #VBW 1.0 MHz\* 11ac VHT20 **11ac VHT40** 5755MHz 5745MHz rker 1 5.743110000000 GHz Ref 15.00 dBm Ref 05x4115 dB Ref 15.00 dBm Next Pk Lef Mar-CF





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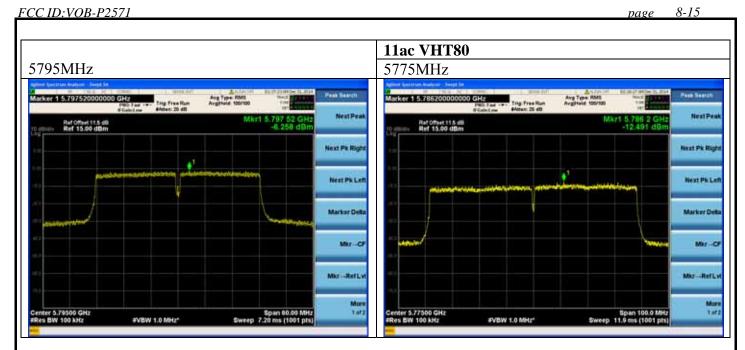


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11n HT40 5755MHz 5785MHz Avg Type Rhes Avgitule 100/100 Marker 1 5.787460000000 GHz Ang Type RMS Avgitule toors Ref 0fted 115 dB Ref 15.00 dBm Ref 0ffset 11.5 dB Ref 15.00 dBm Micr -- Refl.v Mkr -- RefLy #VBW 1.0 MHz\* 5795MHz 5825MHz Aug Type R545 Augitule 100/10 Avg Type RMS Avgitted 100/10 Ref 0ffset 11.5 dB Ref 15.00 dBm Ref 15.00 dBm Marker Det More tata Center 5.82500 GHz #Res BW 100 kHz #VBW 1.0 MHz\* #VBW 1.0 MHz\* 11ac VHT20 **11ac VHT40** 5755MHz 5745MHz rker 1 5.743740000000 GHz arker 1 5.768740000000 GHz Ref 15.00 dBm Ref 05x4115 dB Ref 15.00 dBm Next Pk Lef Mar-CF





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# 10. ANTENNA REQUIREMENT

### 10.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### 10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are dipole antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 6.99dBi.



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11. DEVIATION TO TEST SPECIFICATIONS	
[ NONE]	