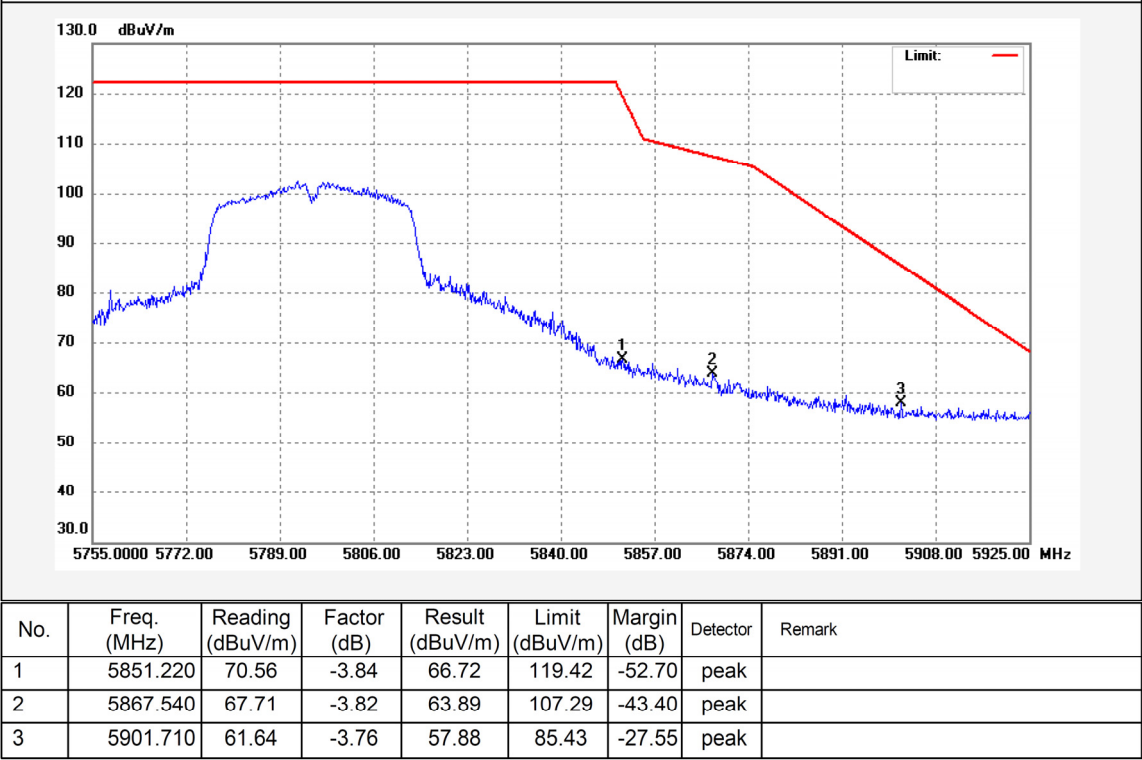
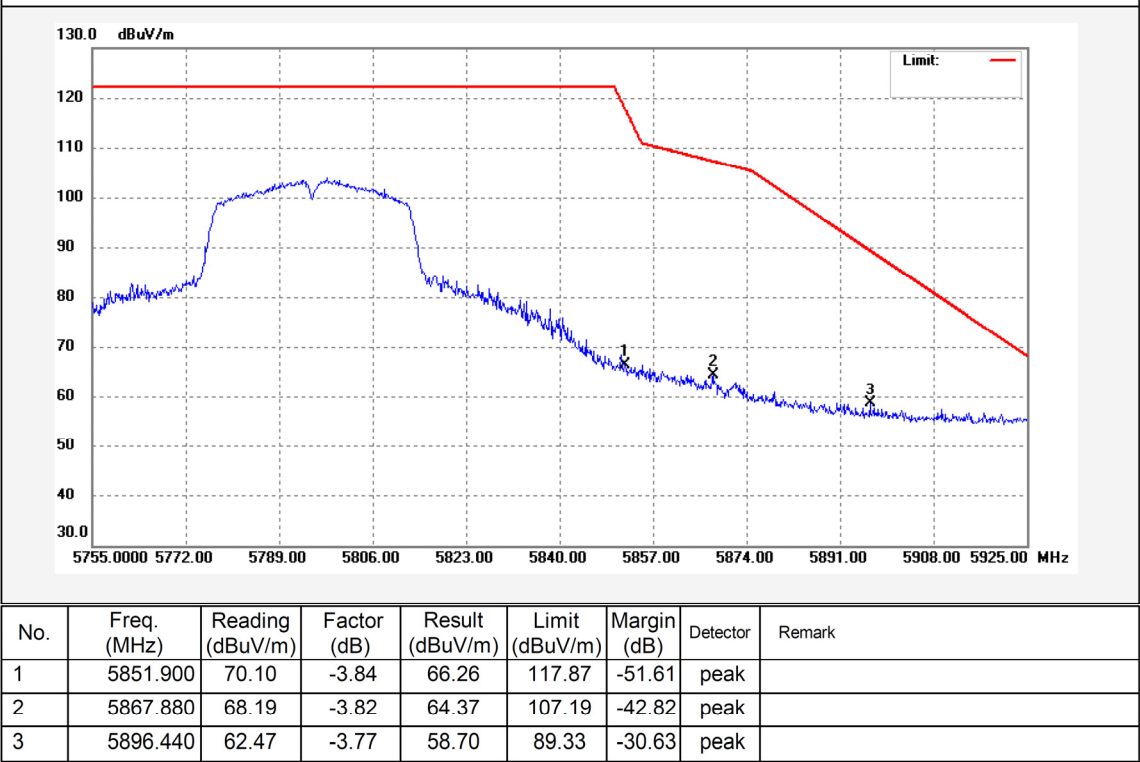


802.11ac(VHT40) U-NII-3 High channel:

Antenna Polarization: Horizontal

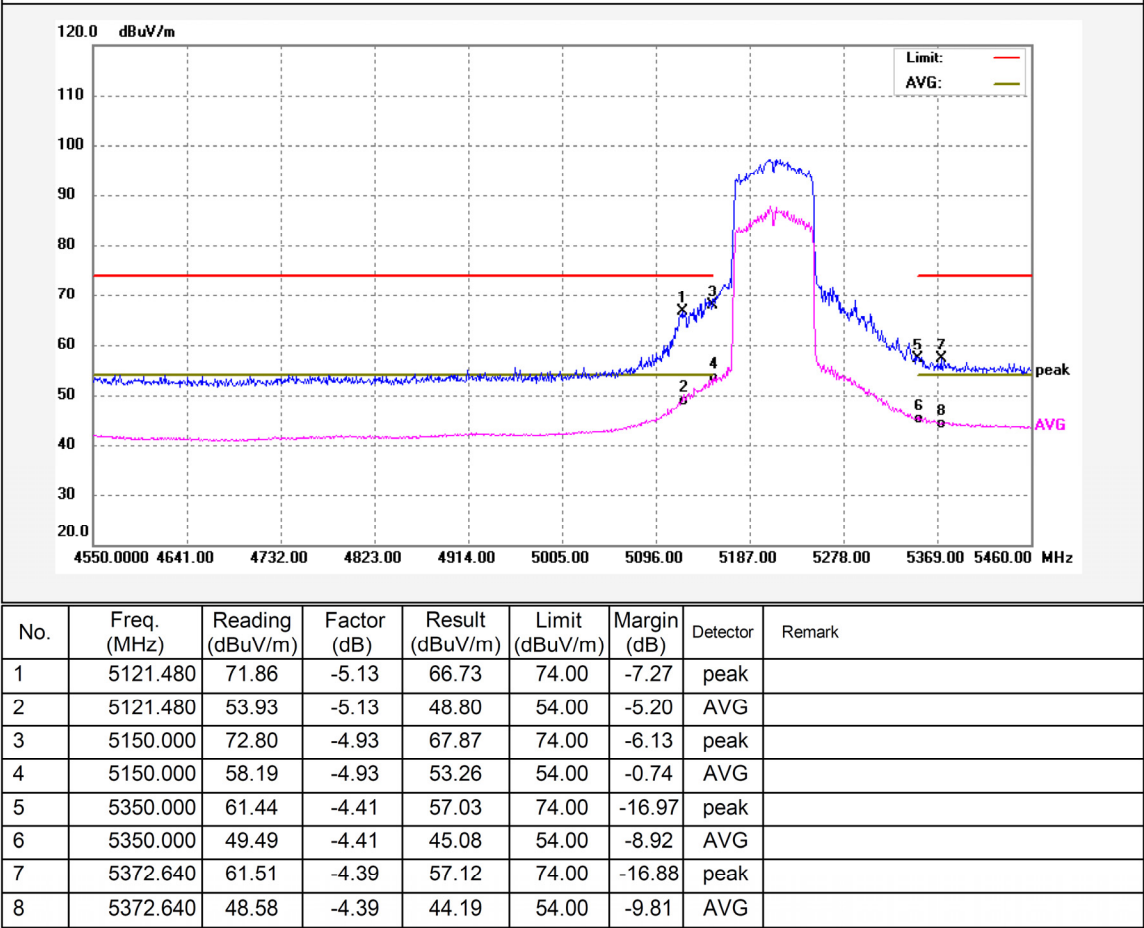


Antenna Polarization: Vertical

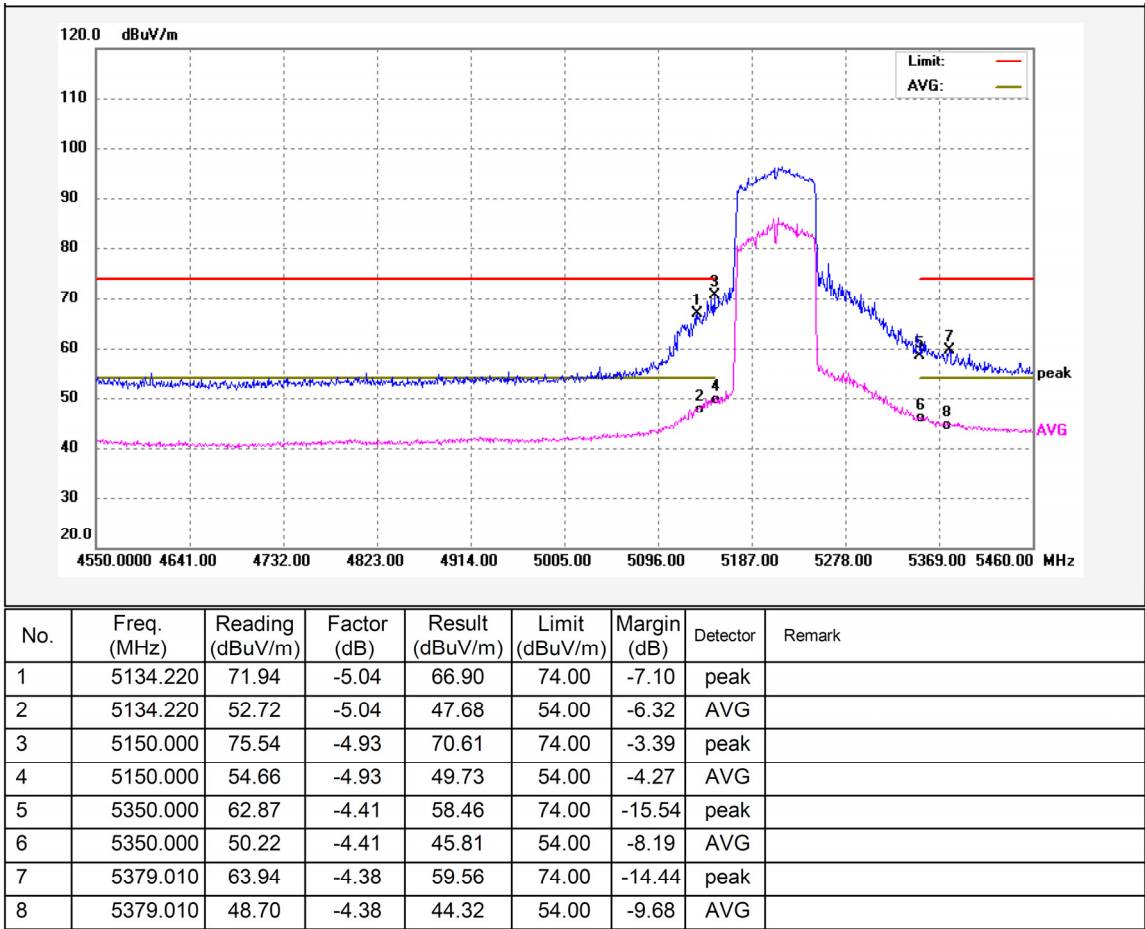


802.11ac(VHT80) U-NII-1 Low channel:

Antenna Polarization: Horizontal

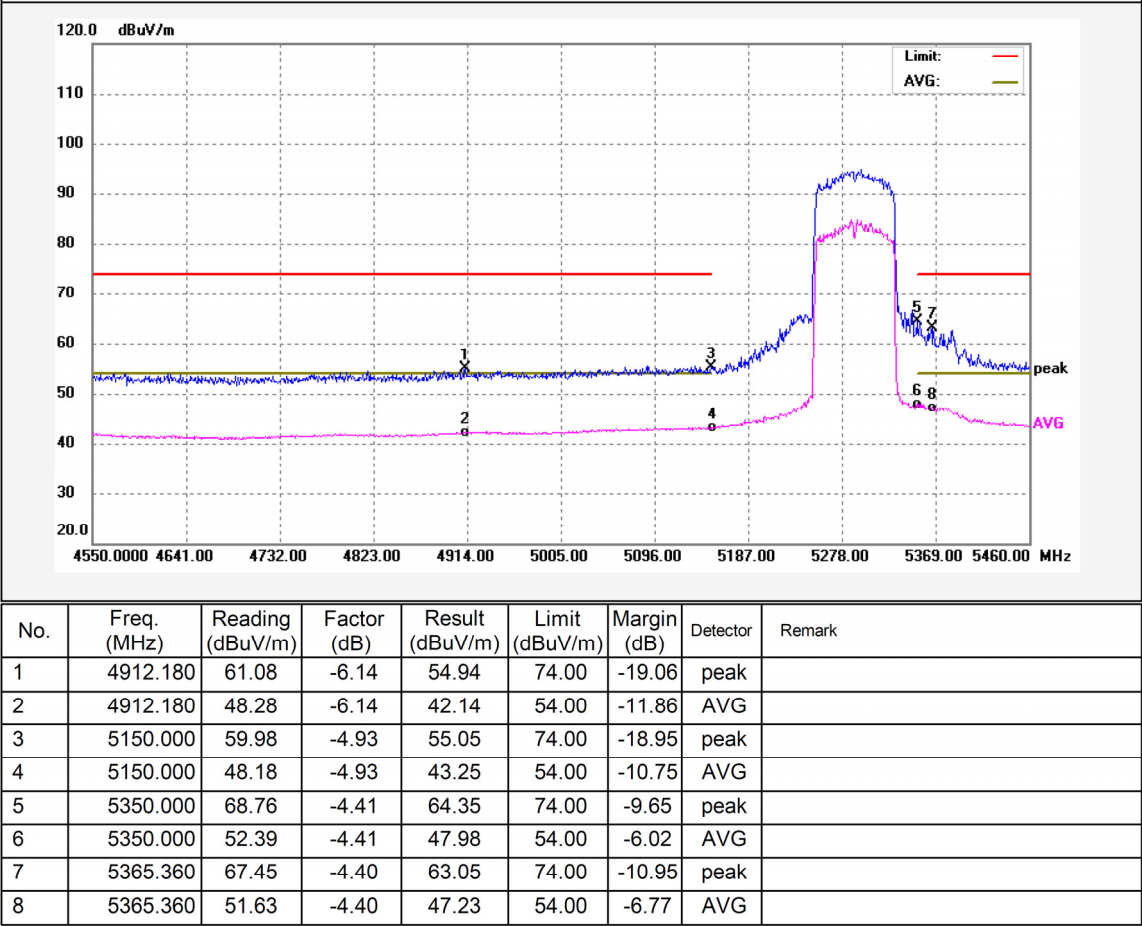


Antenna Polarization: Vertical

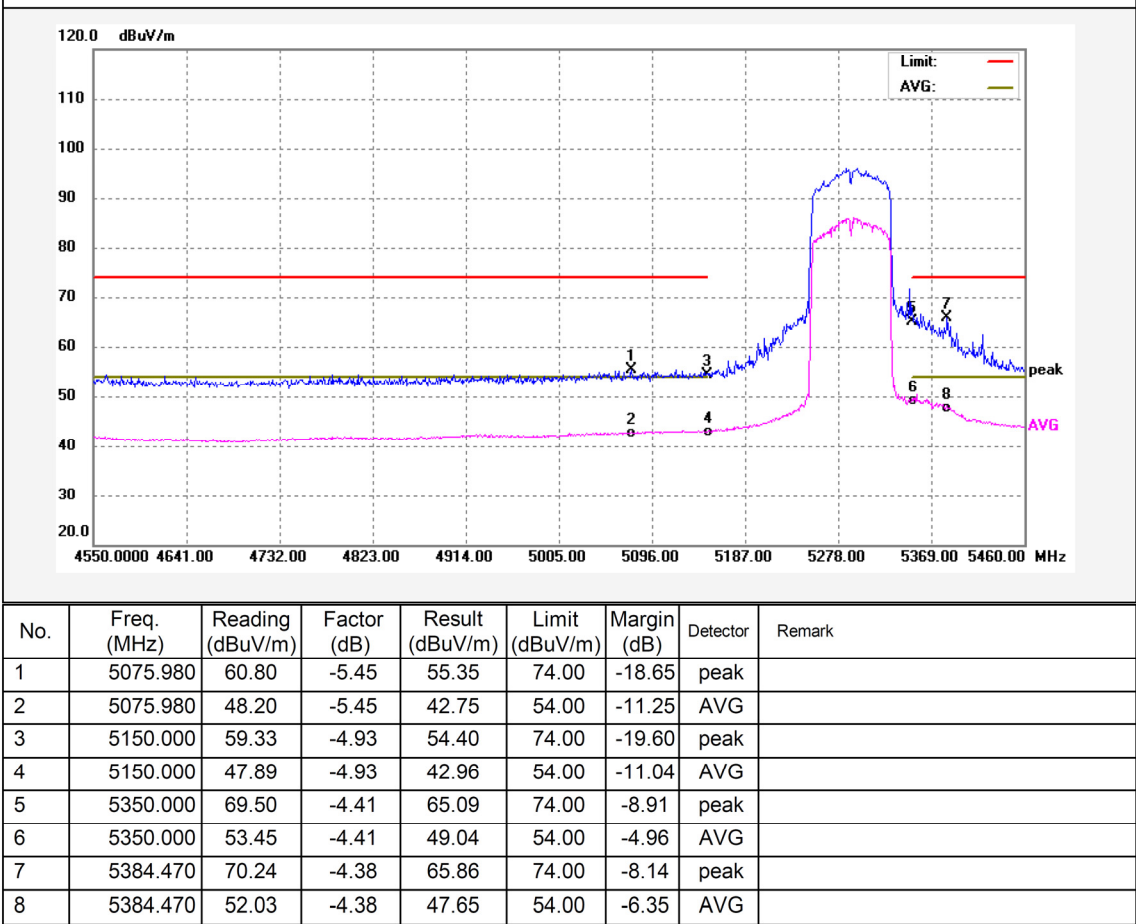


802.11ac(VHT80) U-NII-2A Low channel:

Antenna Polarization: Horizontal

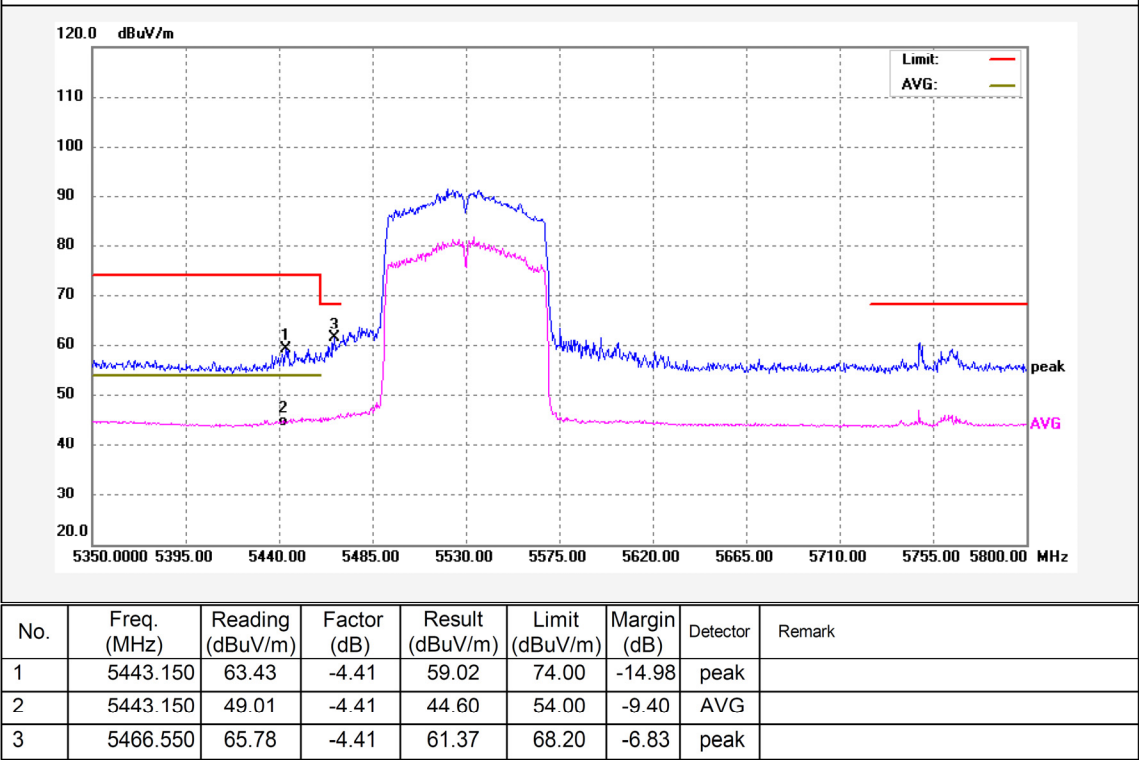


Antenna Polarization: Vertical

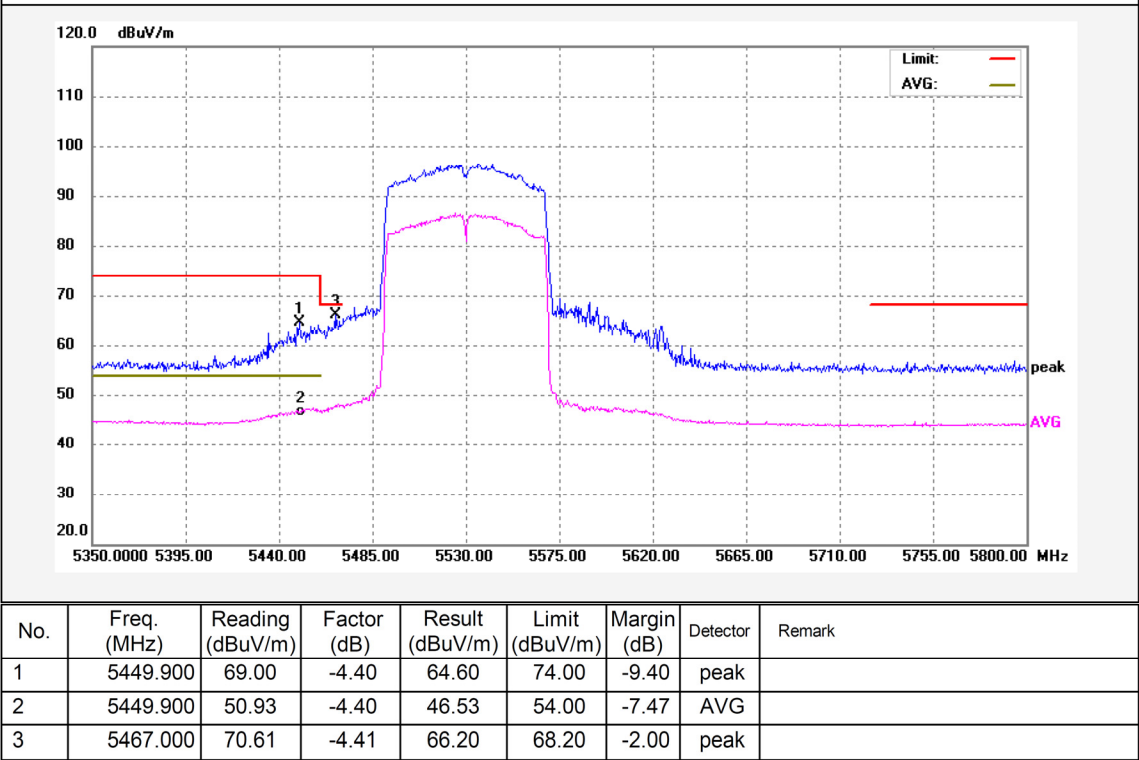


802.11ac(VHT80) U-NII-2C Low channel:

Antenna Polarization: Horizontal

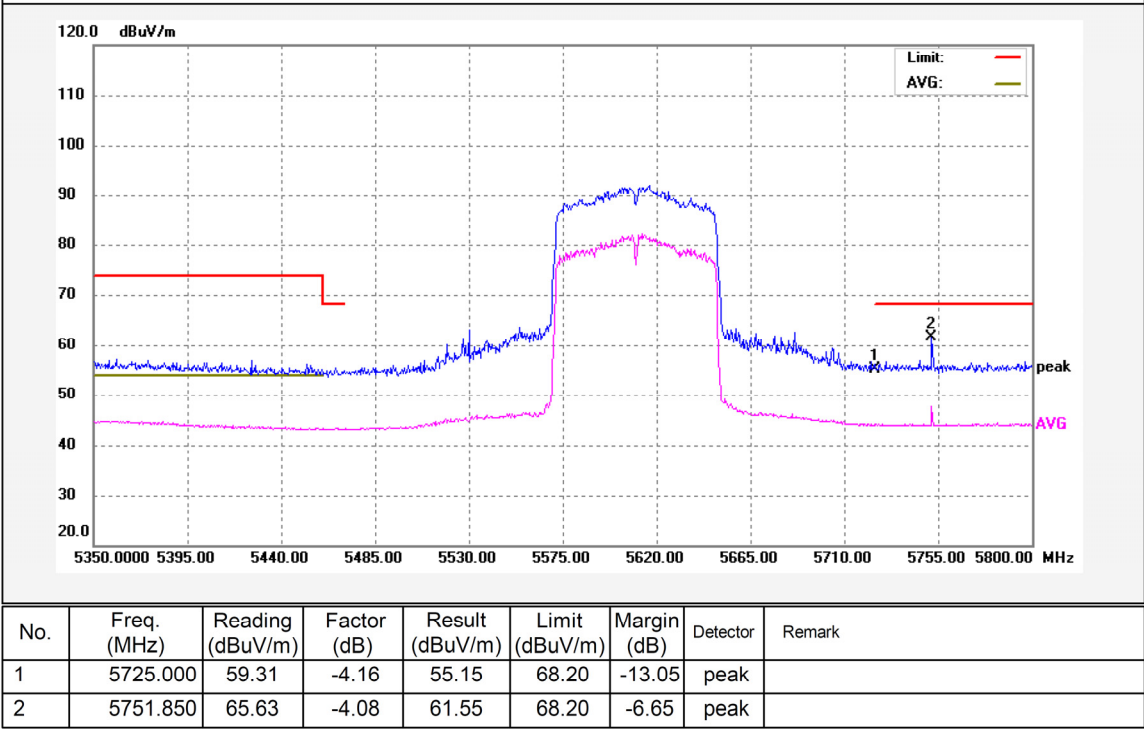


Antenna Polarization: Vertical

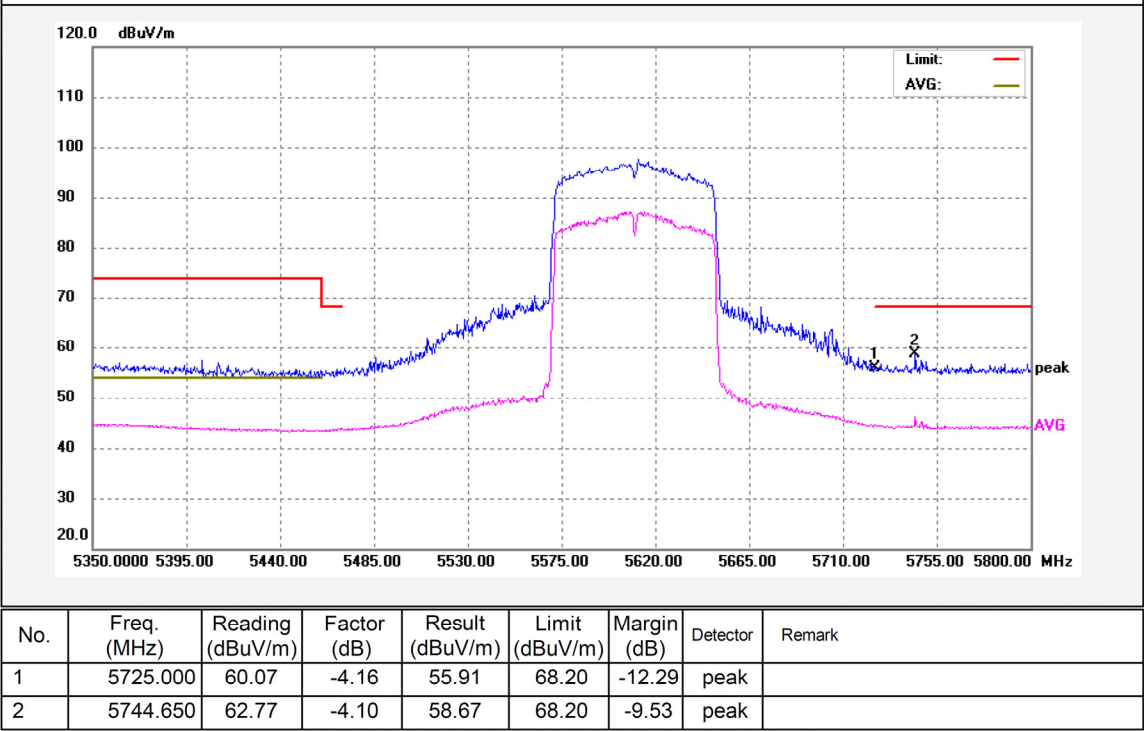


802.11ac(VHT80) U-NII-2C High channel:

Antenna Polarization: Horizontal

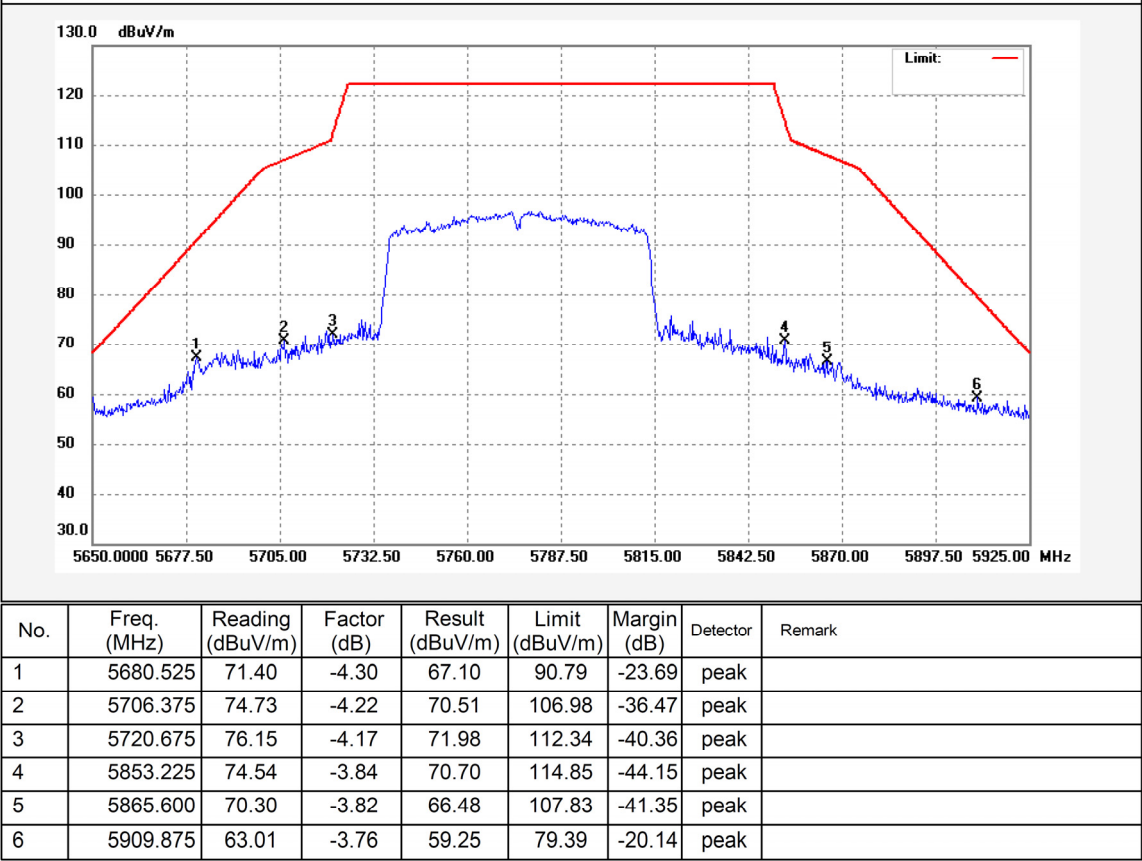


Antenna Polarization: Vertical

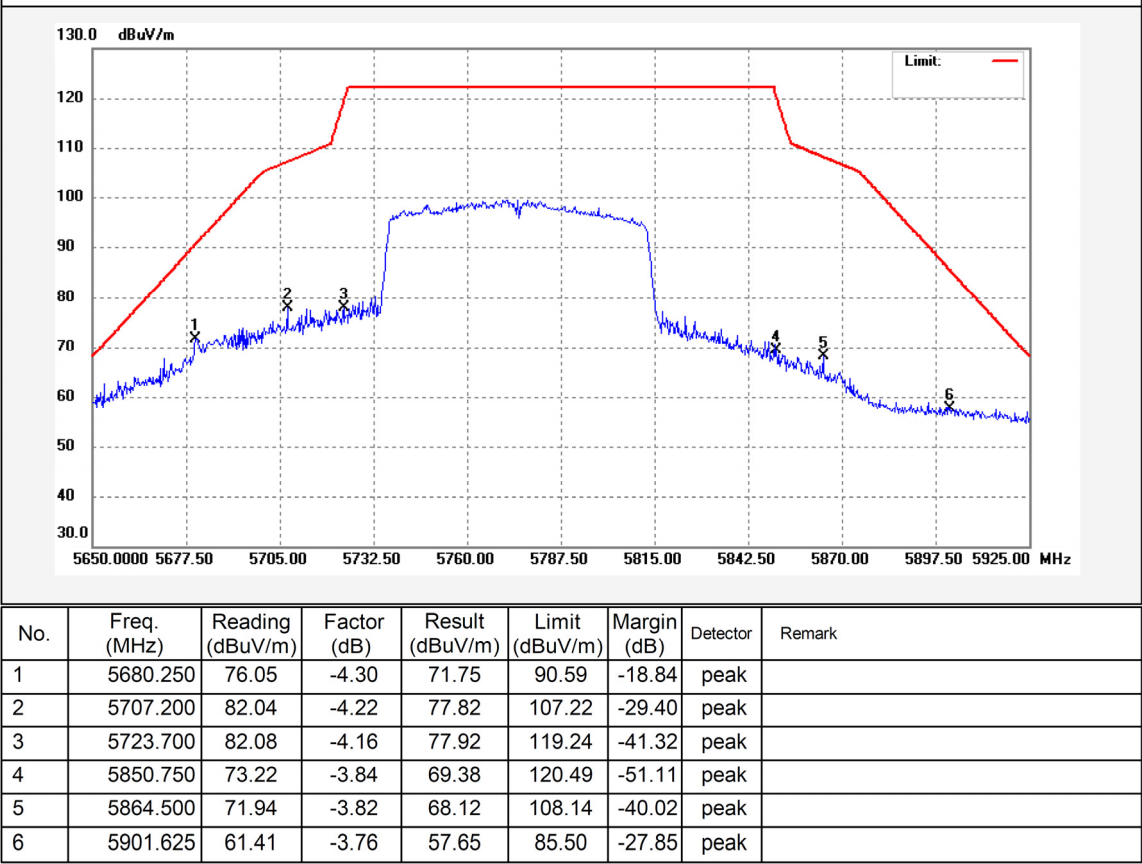


802.11ac(VHT80) U-NII-3 Low channel:

Antenna Polarization: Horizontal



Antenna Polarization: Vertical



11 6 dB Bandwidth

Test Requirement: FCC 47CFR Part 15 Section 15.407(e)
 KDB662911 D01 Multiple Transmitter Output v02r01
 Test Method: KDB789033 D02 General U-NII Test Procedures New Rules v02r01
 Section C
 Test Limit: ≥ 500 kHz
 Test Result: PASS

11.1 Test Procedure

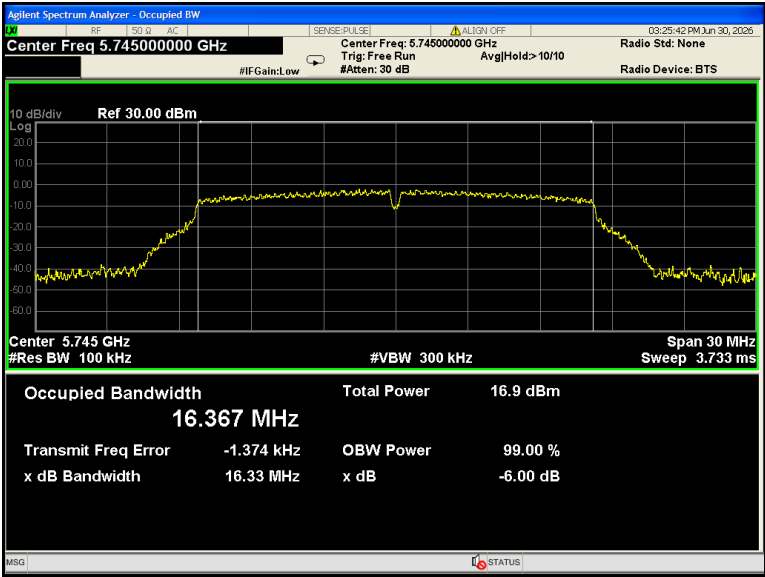
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

11.2 Test Result

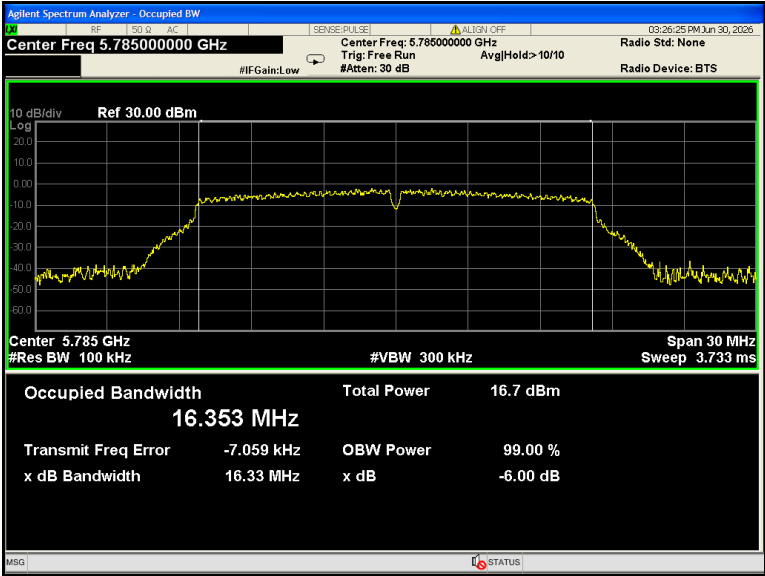
Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	16.33	16.33	16.36
	802.11n(HT20)	17.60	17.58	17.58
	802.11n(HT40)	36.28	/	36.03
	802.11ac(VHT20)	17.59	17.58	17.54
	802.11ac(VHT40)	35.80	/	36.28
	802.11ac(VHT80)	76.32	/	/

Test result plots shown as follows:

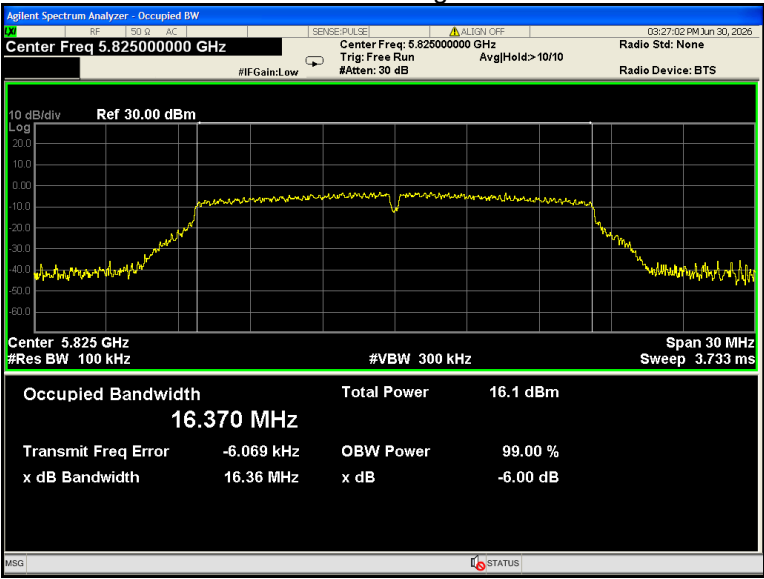
802.11a U-NII-3 Low channel



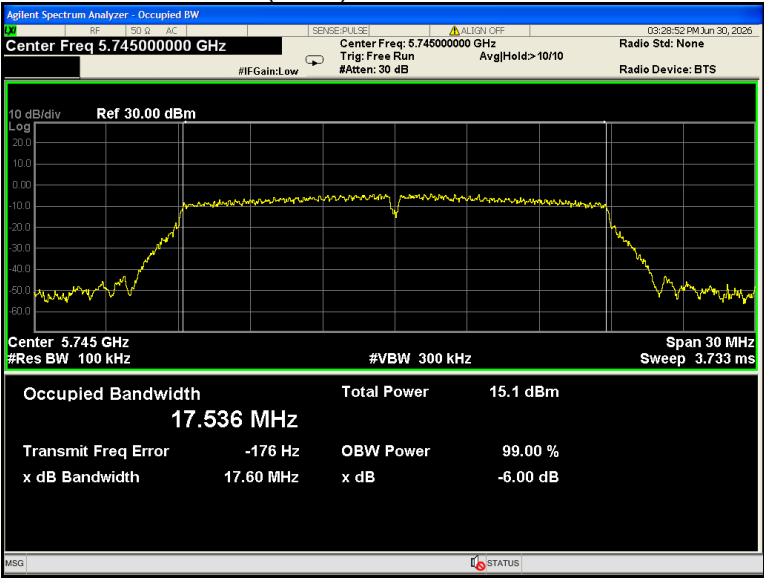
802.11a U-NII-3 Middle channel



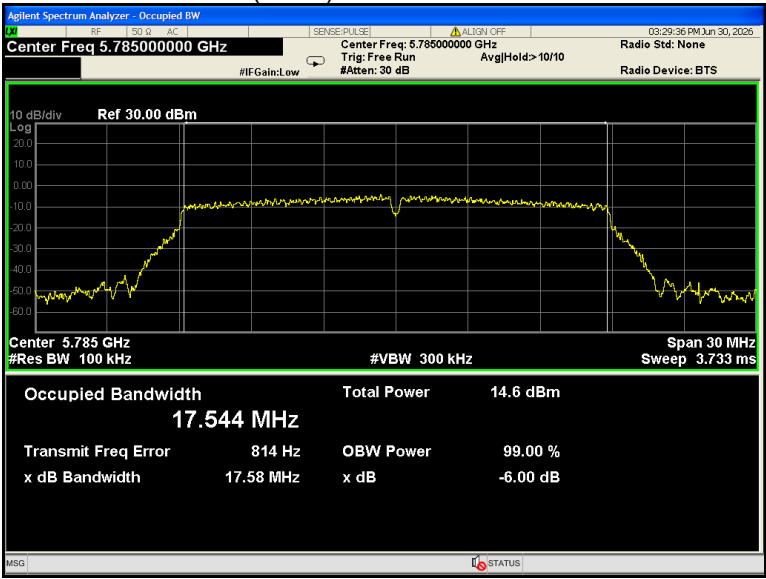
802.11a U-NII-3 High channel



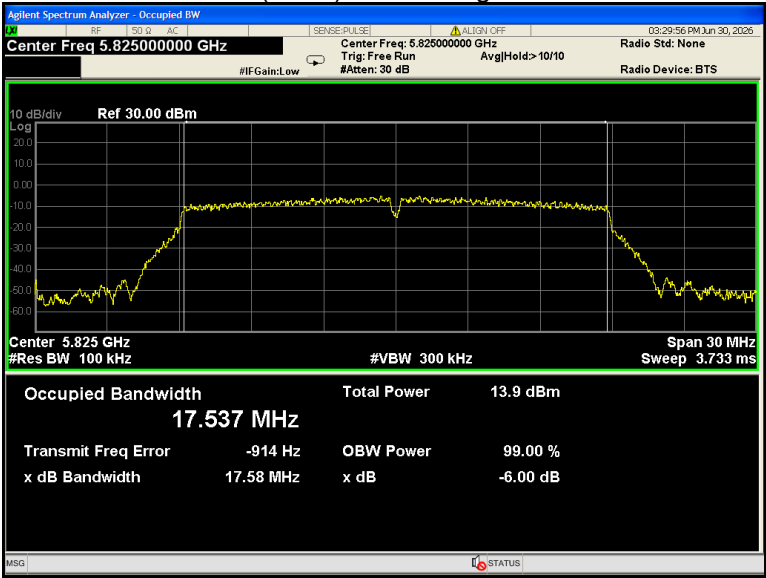
802.11n(HT20) U-NII-3 Low channel



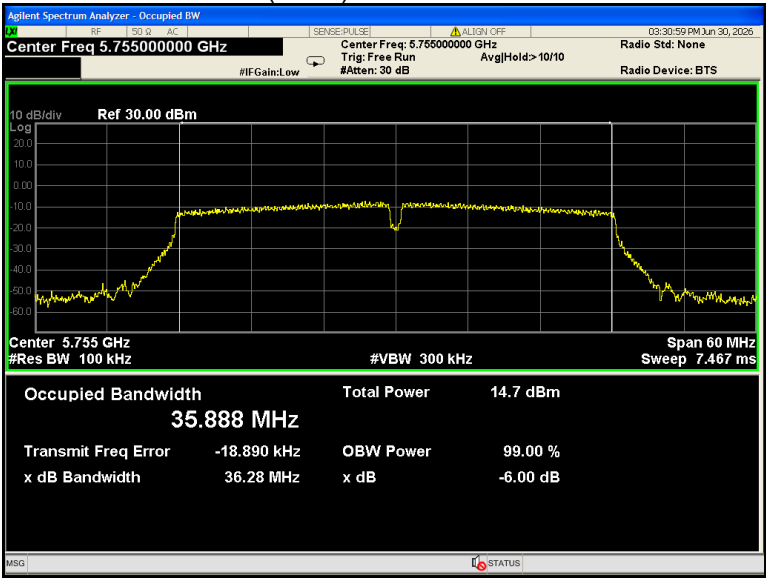
802.11n(HT20) U-NII-3 Middle channel



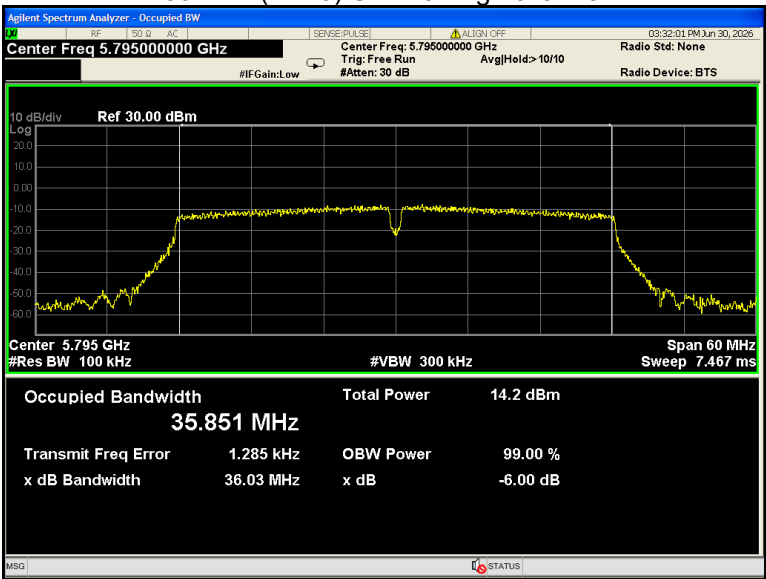
802.11n(HT20) U-NII-3 High channel



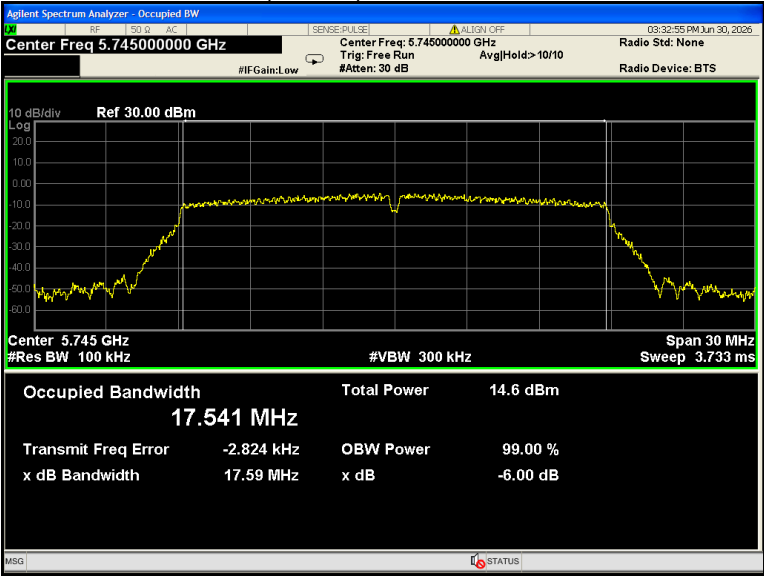
802.11n(HT40) U-NII-3 Low channel



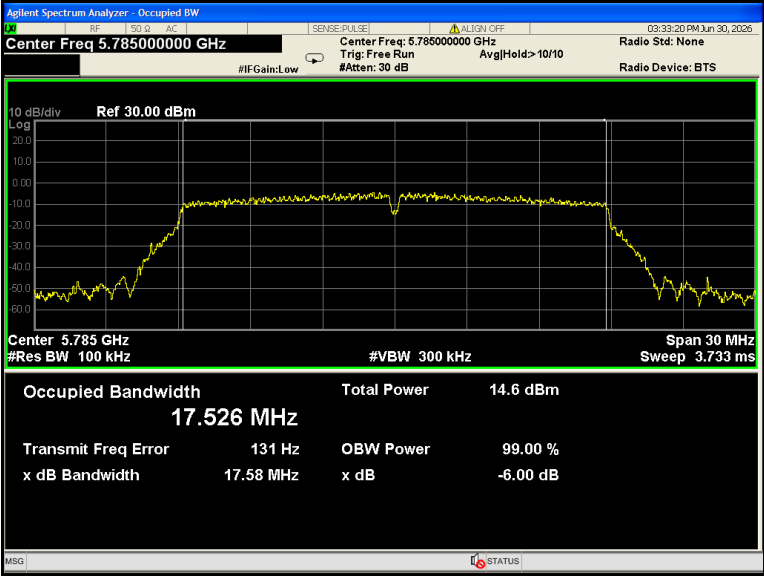
802.11n(HT40) U-NII-3 High channel



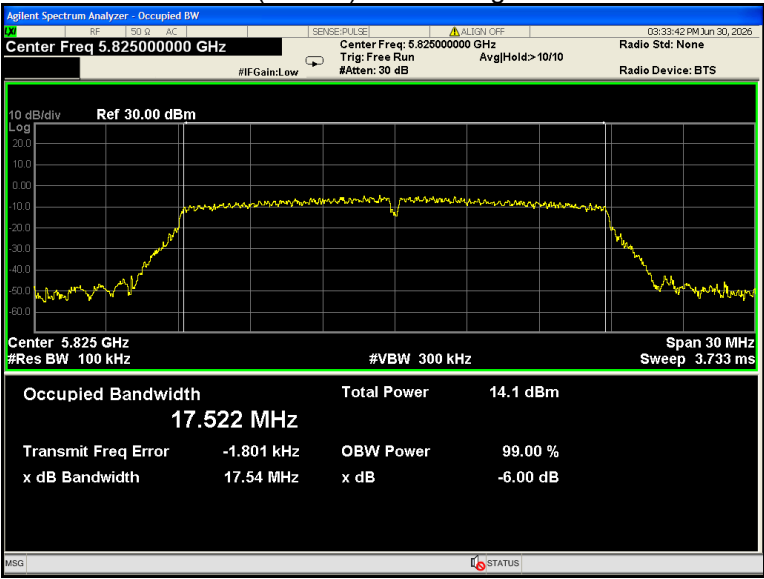
802.11ac(VHT20) U-NII-3 Low channel



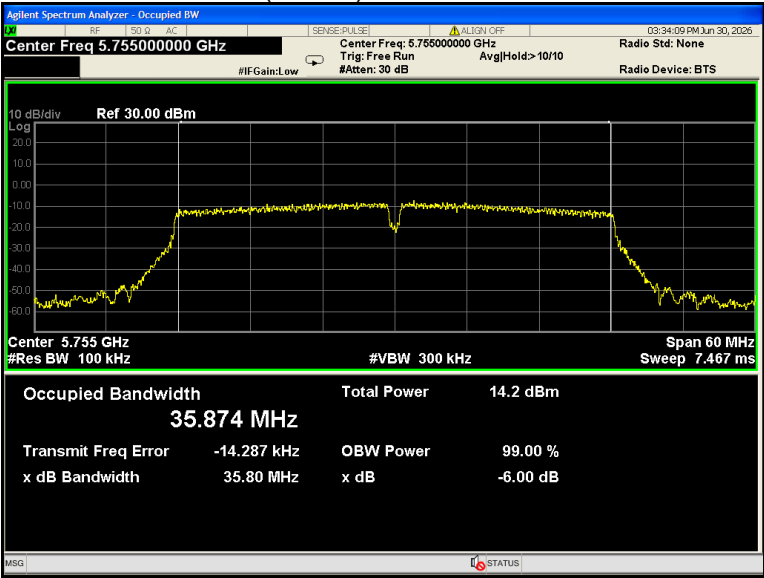
802.11ac(VHT20) U-NII-3 Middle channel



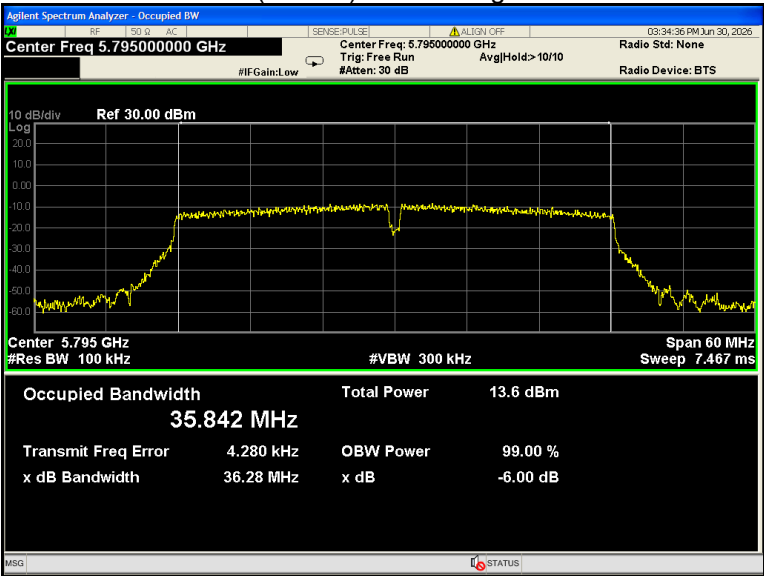
802.11ac(VHT20) U-NII-3 High channel



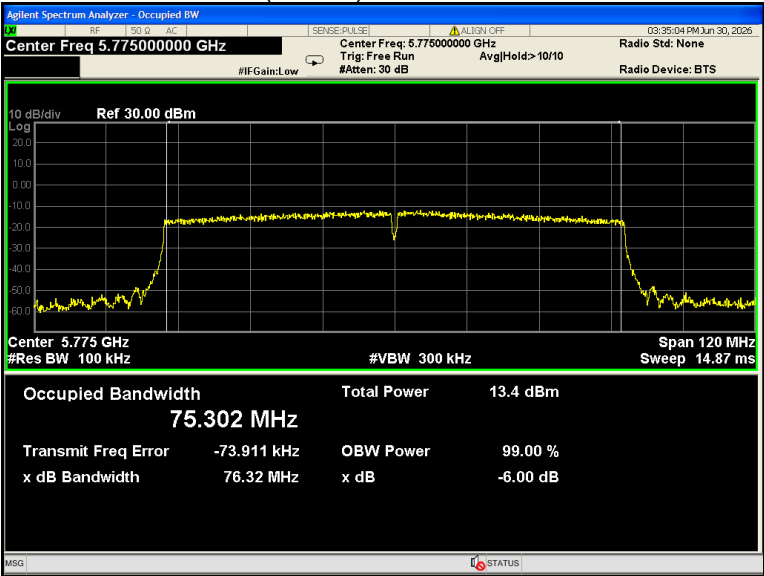
802.11ac(VHT40) U-NII-3 Low channel



802.11ac(VHT40) U-NII-3 High channel



802.11ac(VHT80) U-NII-3 Low channel



12 26 dB Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC 47CFR Part 15 Section 15.407 (a) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Section D
Test Limit:	No restriction limits
Test Result:	PASS

12.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 1% to 5% of the OBW, VBW = 3x RBW

12.2 Test Result

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-1	802.11a	29.74	29.08	29.56	16.885	16.867	16.772
	802.11n(HT20)	28.40	24.88	26.87	17.632	17.627	17.722
	802.11n(HT40)	48.14	/	46.53	36.045	/	36.054
	802.11ac(VHT20)	29.66	22.44	24.82	17.662	17.684	17.736
	802.11ac(VHT40)	41.57	/	42.97	36.053	/	36.038
	802.11ac(VHT80)	83.32	/	/	75.438	/	/

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-2A	802.11a	22.55	22.99	23.80	16.478	16.483	16.535
	802.11n(HT20)	21.83	24.03	24.31	17.603	17.612	17.638
	802.11n(HT40)	39.96	/	39.63	35.997	/	36.002
	802.11ac(VHT20)	23.14	23.93	26.53	17.639	17.681	17.616
	802.11ac(VHT40)	39.51	/	39.38	35.960	/	35.939
	802.11ac(VHT80)	79.07	/	/	75.203	/	/

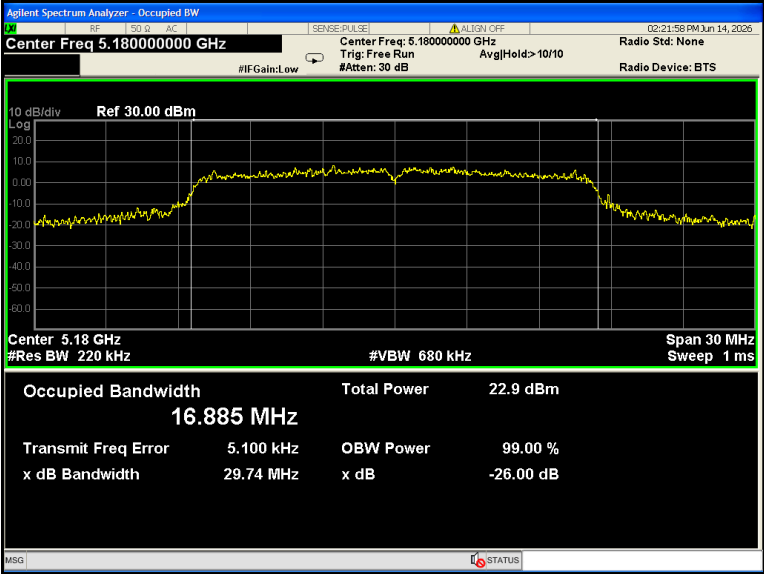
Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-2C	802.11a	23.69	20.92	22.35	16.458	16.439	16.407
	802.11n(HT20)	20.14	19.99	21.33	17.561	17.591	17.598
	802.11n(HT40)	39.87	40.13	39.78	35.971	35.899	35.972
	802.11ac(VHT20)	20.10	19.86	20.20	17.533	17.570	17.854
	802.11ac(VHT40)	39.60	40.26	39.36	35.941	35.899	35.932
	802.11ac(VHT80)	79.98	/	79.73	75.168	/	75.238

Band	Operation mode	99% Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	16.644	16.440	16.514
	802.11n(HT20)	17.863	17.762	18.014
	802.11n(HT40)	36.271	/	36.389
	802.11ac(VHT20)	17.774	17.774	17.937
	802.11ac(VHT40)	36.479	/	36.400
	802.11ac(VHT80)	75.496	/	/

Test result plots shown as follows:

26 dB Bandwidth and 99% Occupied Bandwidth

802.11a U-NII-1 Low channel



802.11a U-NII-1 Middle channel

