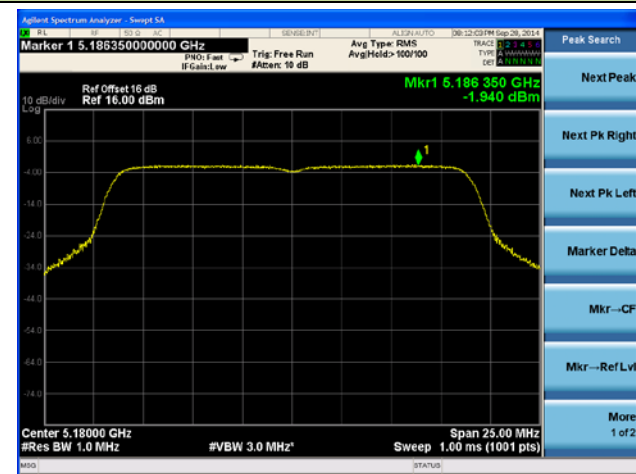
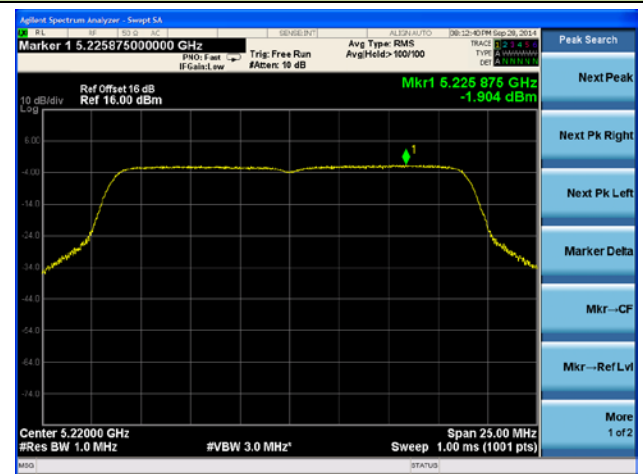


802.11ac-VHT20 Power Spectral Density - Ant 0

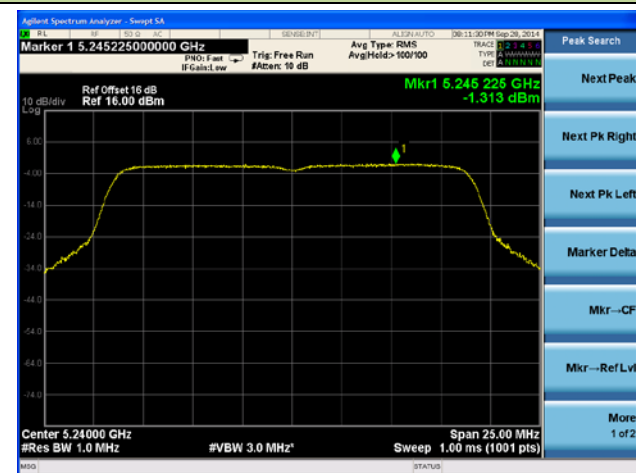
Channel 36 (5180MHz)



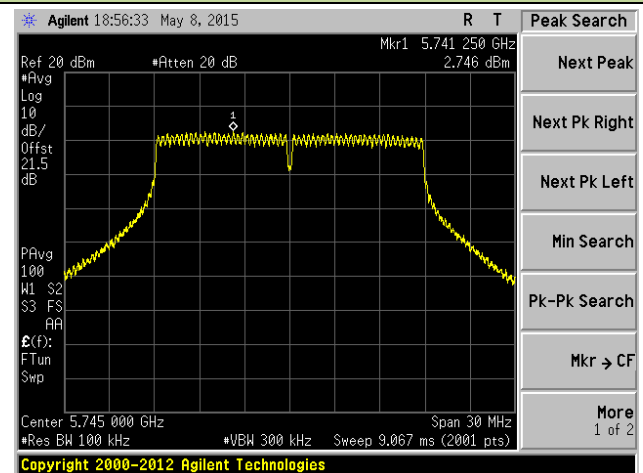
Channel 44 (5220MHz)



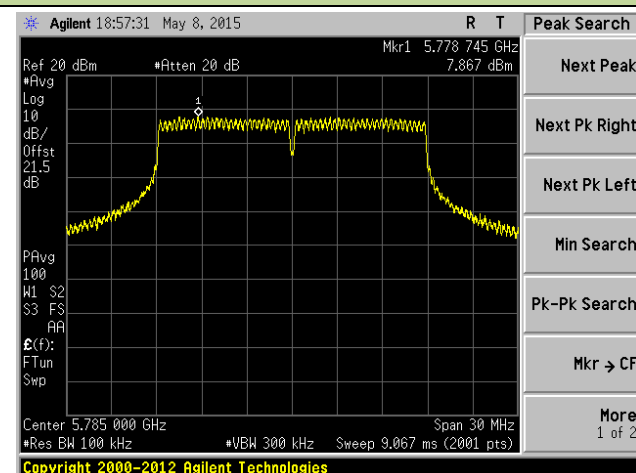
Channel 48 (5240MHz)



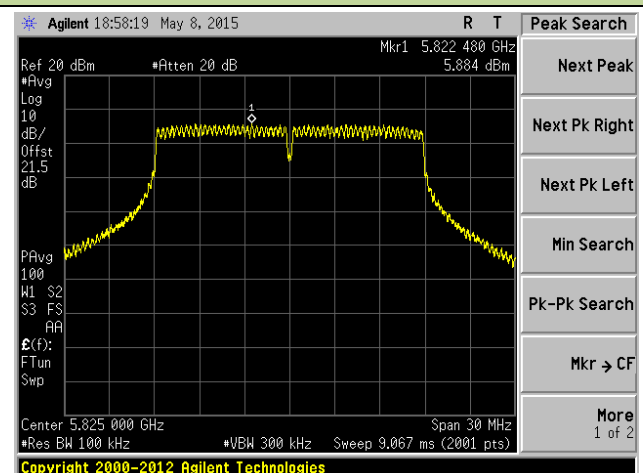
Channel 149 (5745MHz)



Channel 157 (5785MHz)

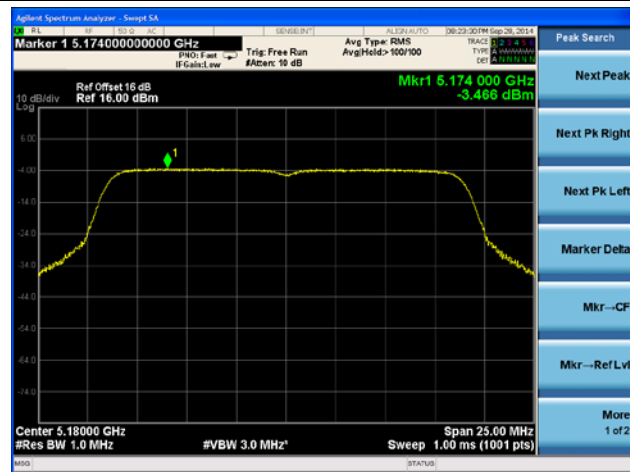


Channel 165 (5825MHz)

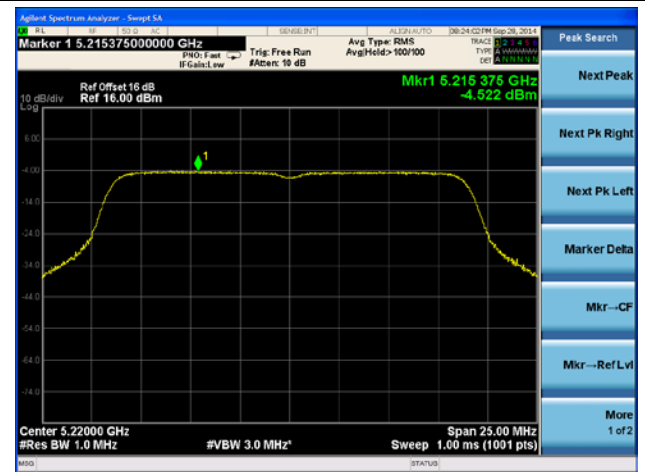


802.11ac-VHT20 Power Spectral Density - Ant 1

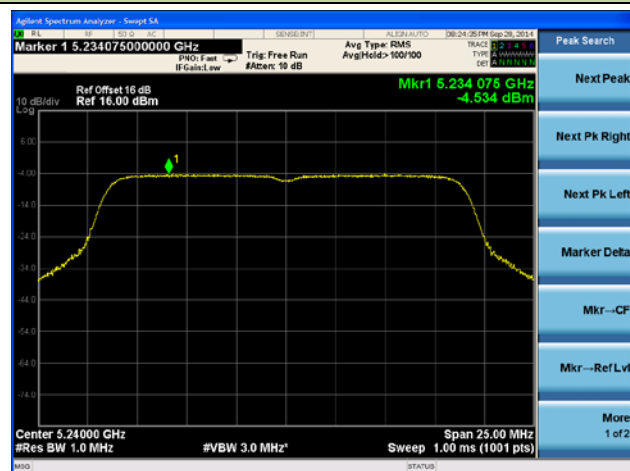
Channel 36 (5180MHz)



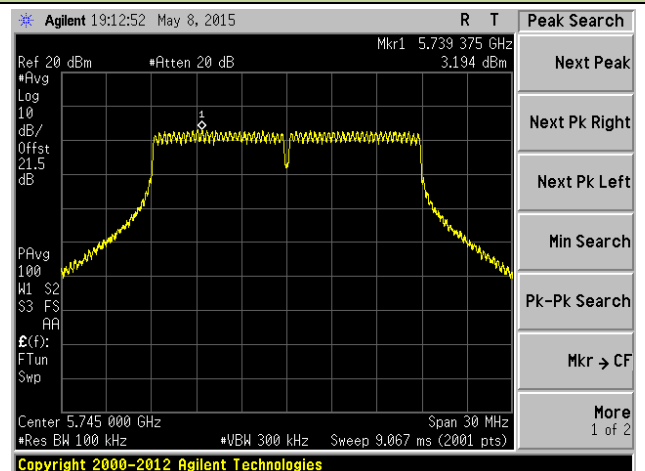
Channel 44 (5220MHz)



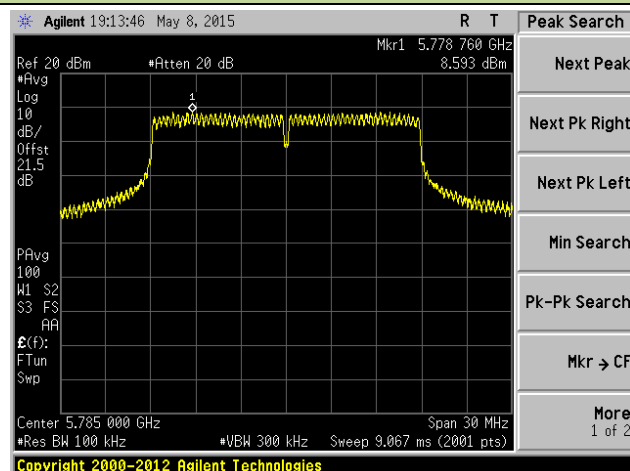
Channel 48 (5240MHz)



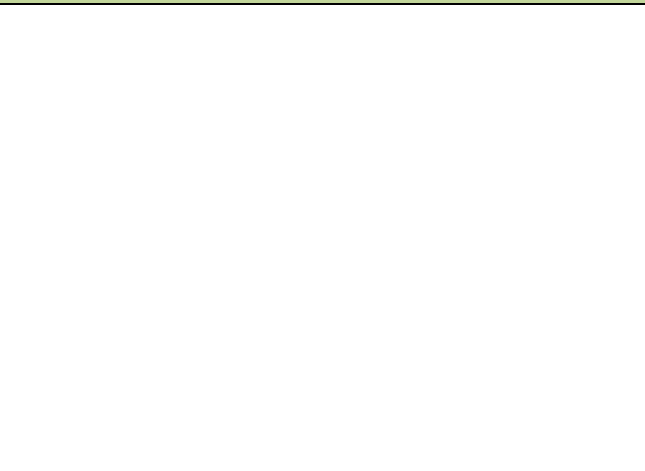
Channel 149 (5745MHz)



Channel 157 (5785MHz)

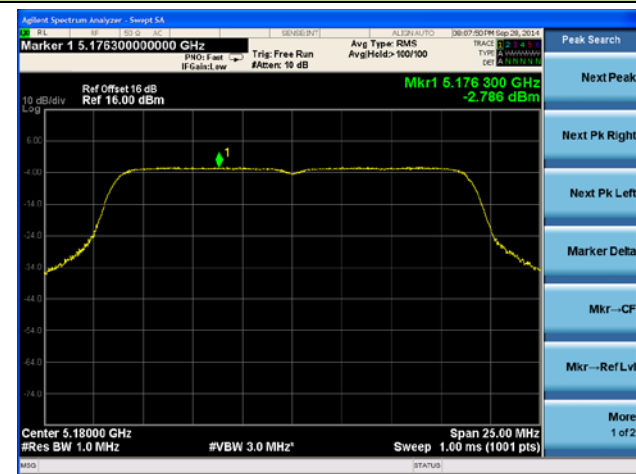


Channel 165 (5825MHz)

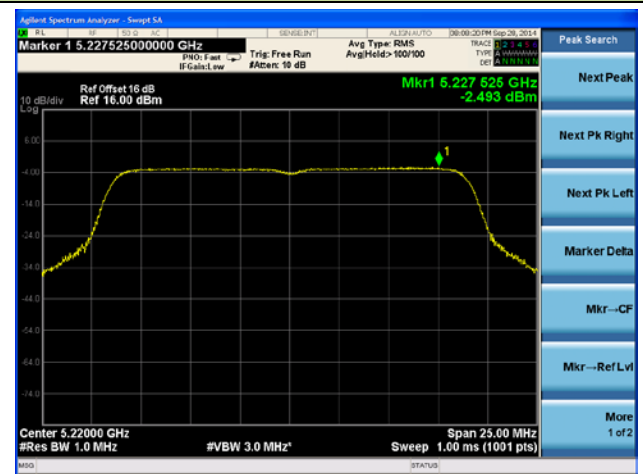


802.11ac-VHT20 Power Spectral Density - Ant 0 / Ant 0 + 1

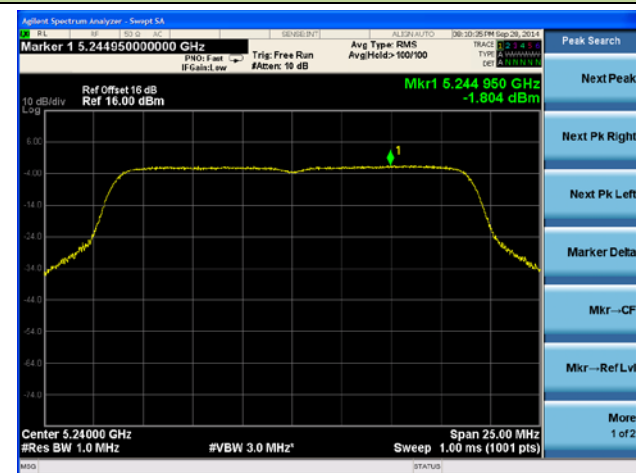
Channel 36 (5180MHz)



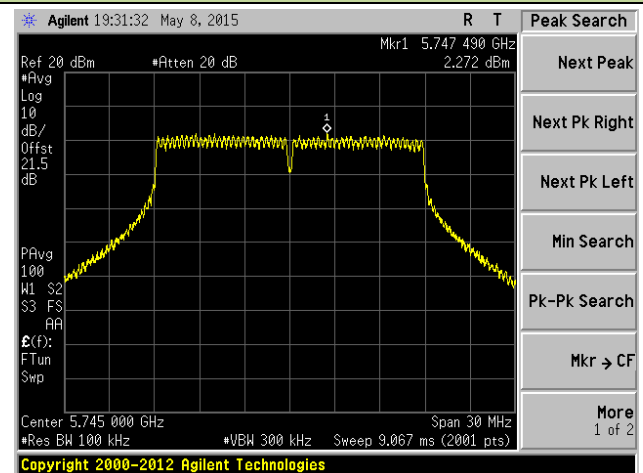
Channel 44 (5220MHz)



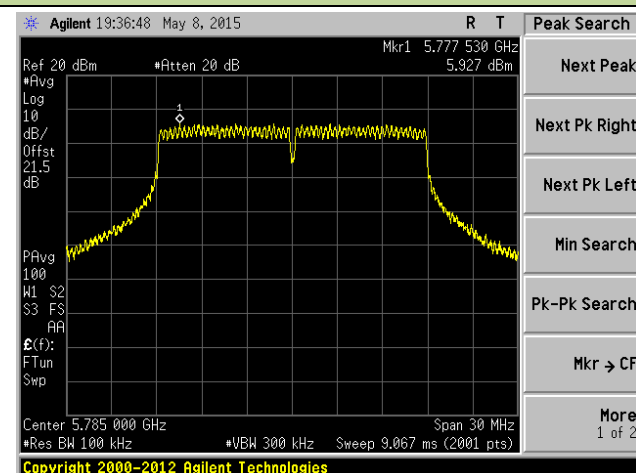
Channel 48 (5240MHz)



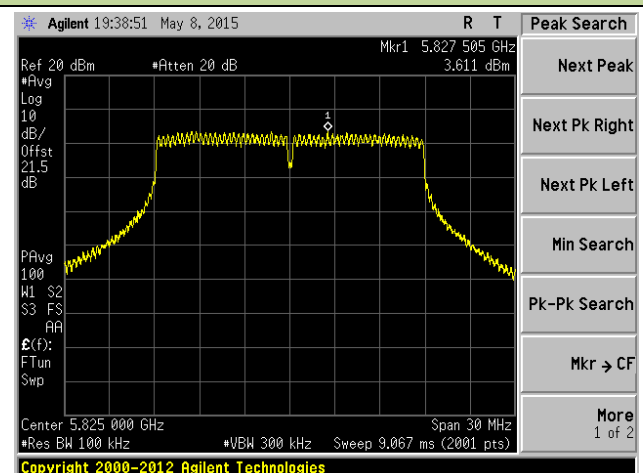
Channel 149 (5745MHz)



Channel 157 (5785MHz)

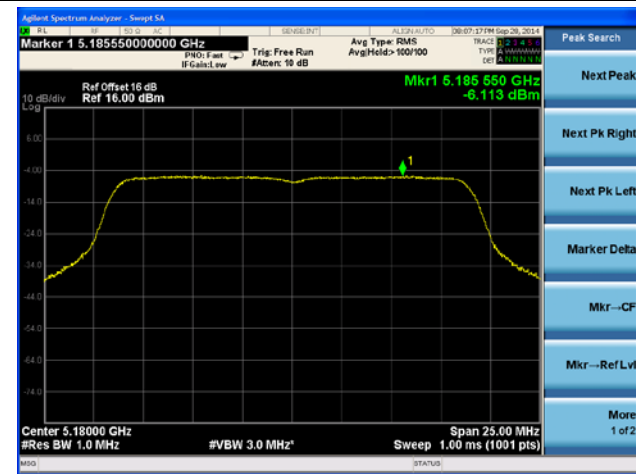


Channel 165 (5825MHz)

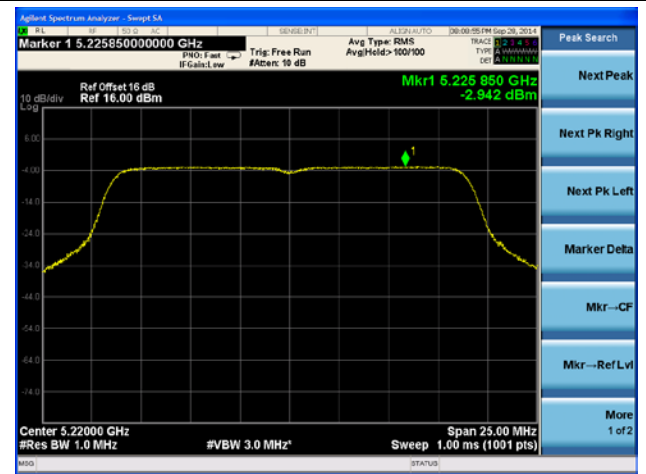


802.11ac-VHT20 Power Spectral Density - Ant 1 / Ant 0 + 1

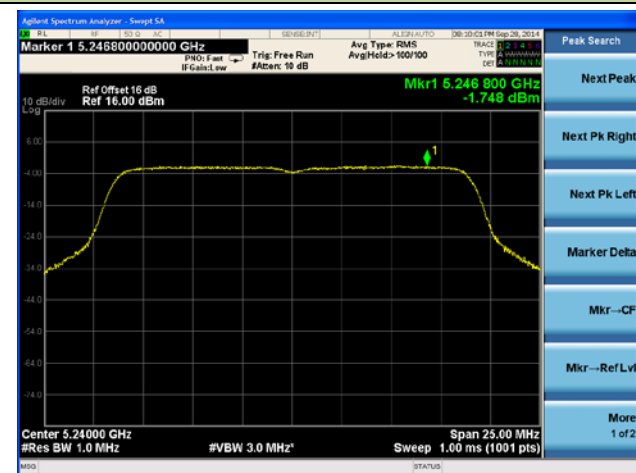
Channel 36 (5180MHz)



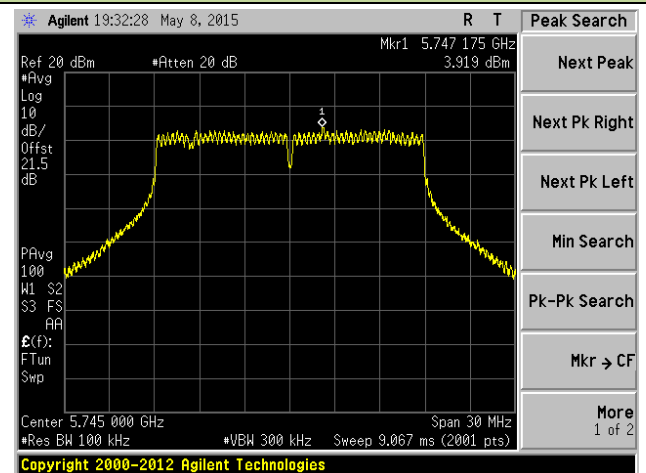
Channel 44 (5220MHz)



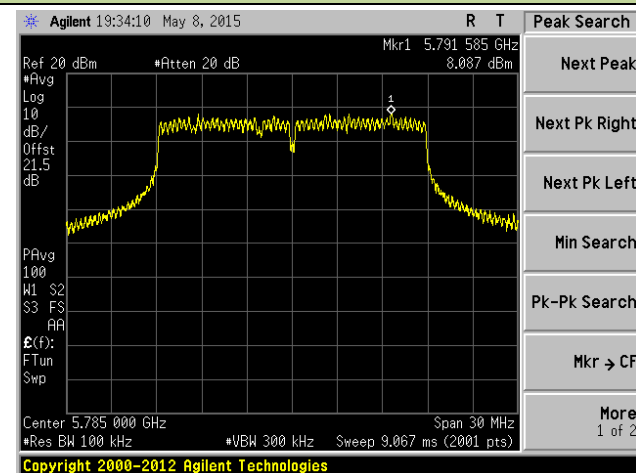
Channel 48 (5240MHz)



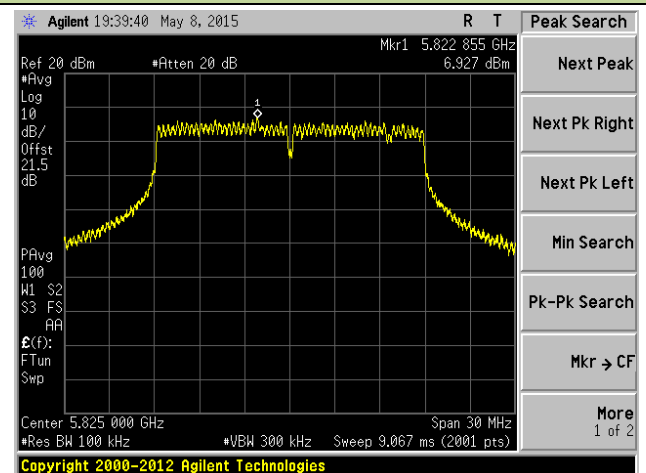
Channel 149 (5745MHz)



Channel 157 (5785MHz)

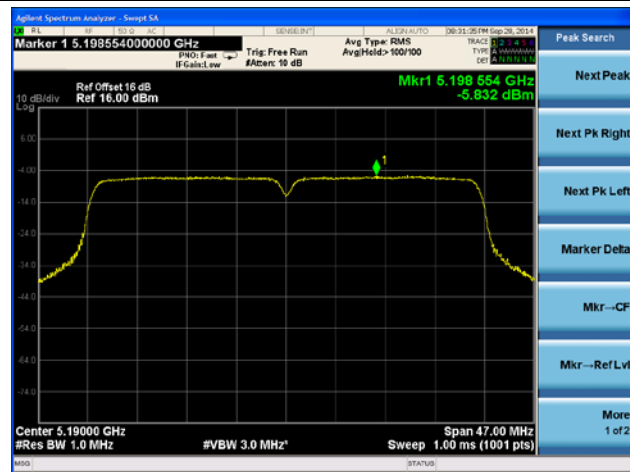


Channel 165 (5825MHz)

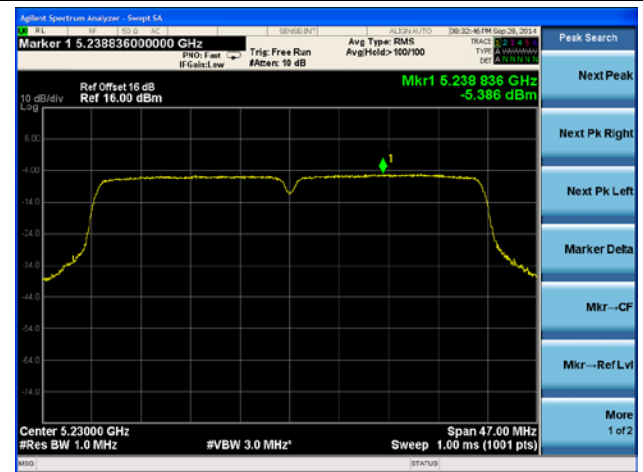


802.11n-HT40 Power Spectral Density - Ant 0

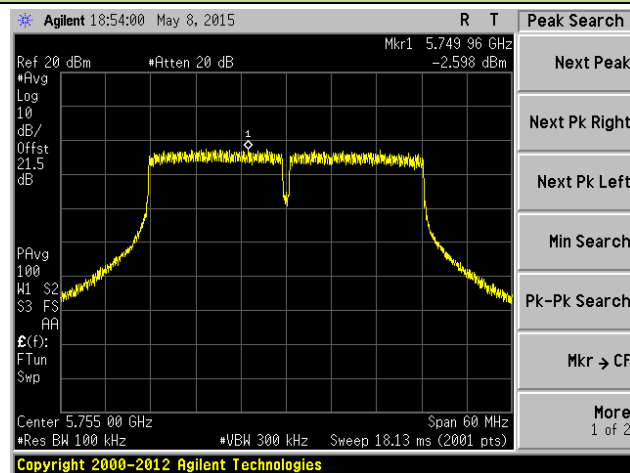
Channel 38 (5190MHz)



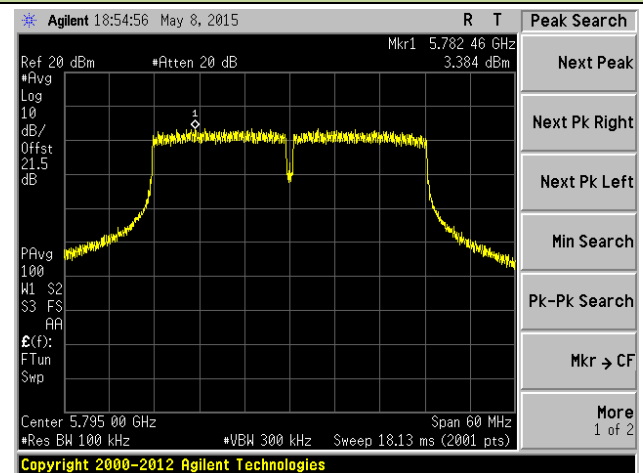
Channel 46 (5230MHz)



Channel 151 (5755MHz)

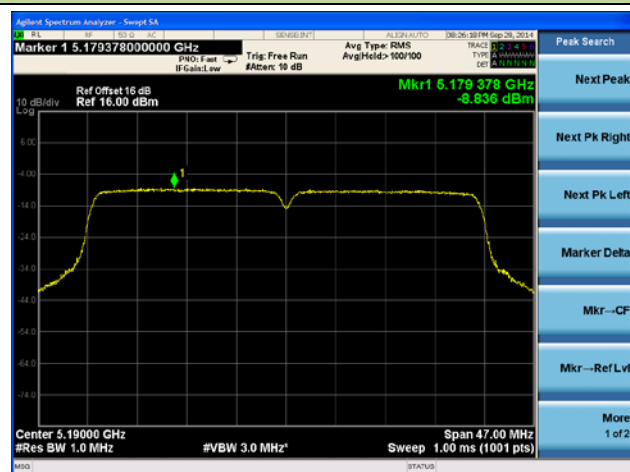


Channel 159 (5795MHz)

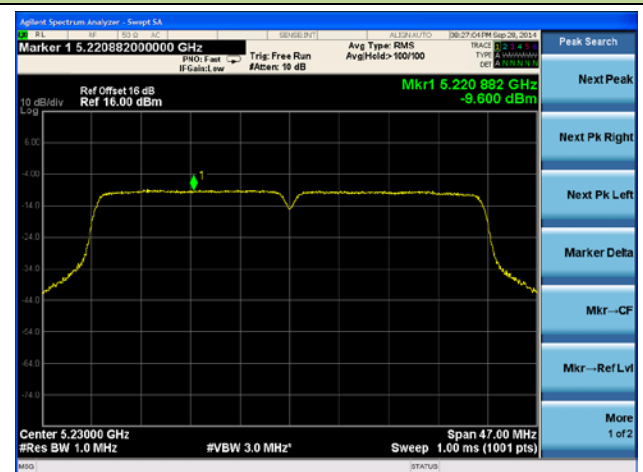


802.11n-HT40 Power Spectral Density - Ant 1

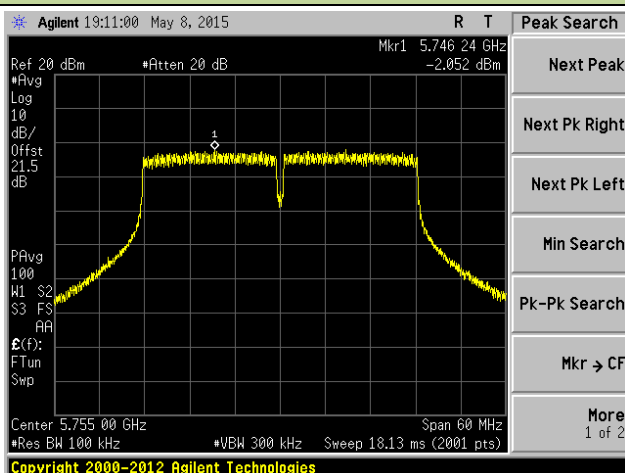
Channel 38 (5190MHz)



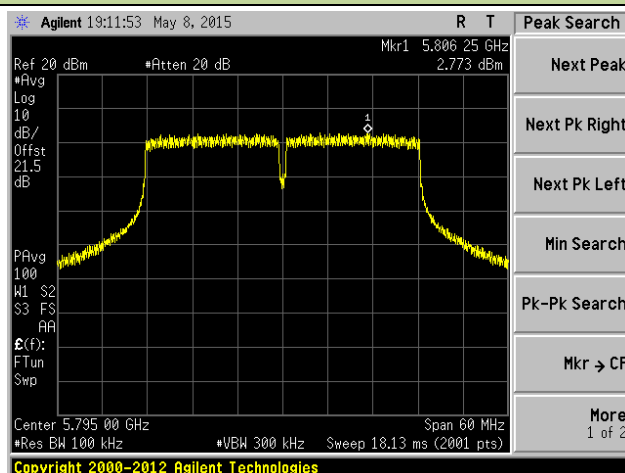
Channel 46 (5230MHz)



Channel 151 (5755 MHz)

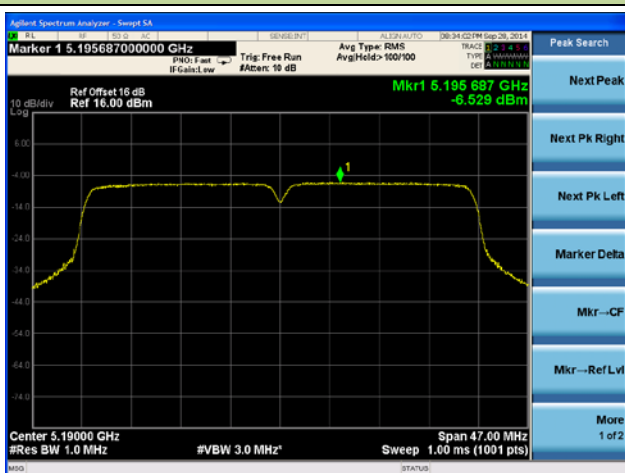


Channel 159 (5795 MHz)

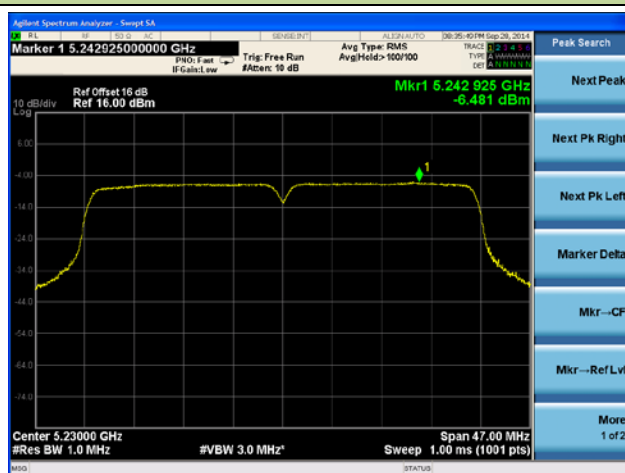


802.11n-HT40 Power Spectral Density - Ant 0 / Ant 0+1

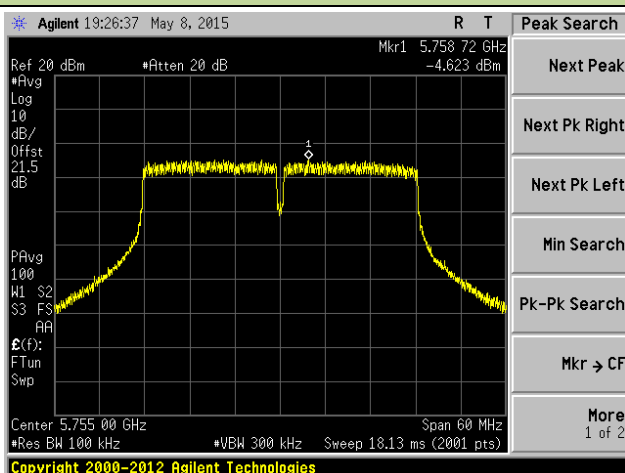
Channel 38 (5190MHz)



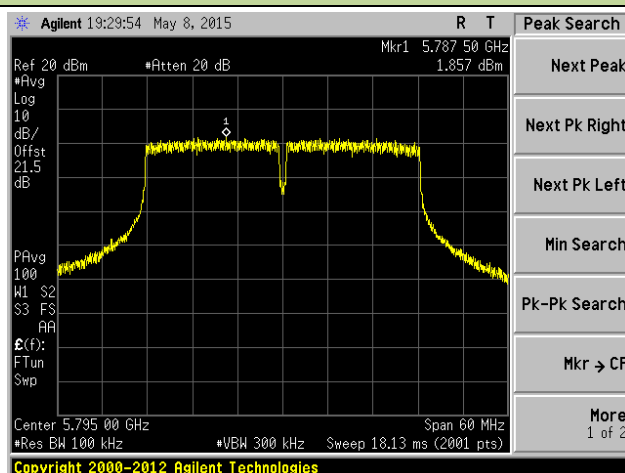
Channel 46 (5230MHz)



Channel 151 (5755MHz)

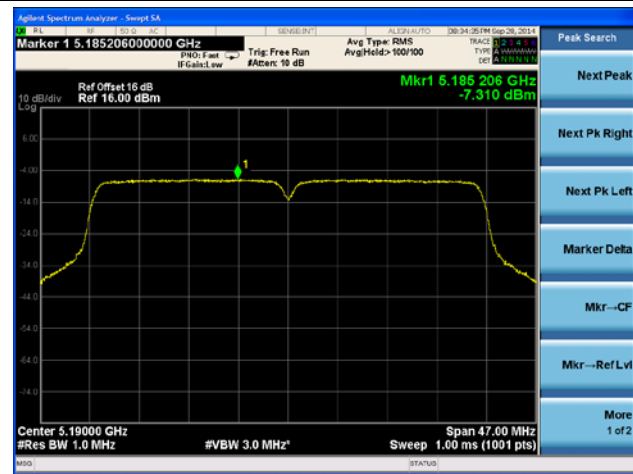


Channel 159 (5795MHz)

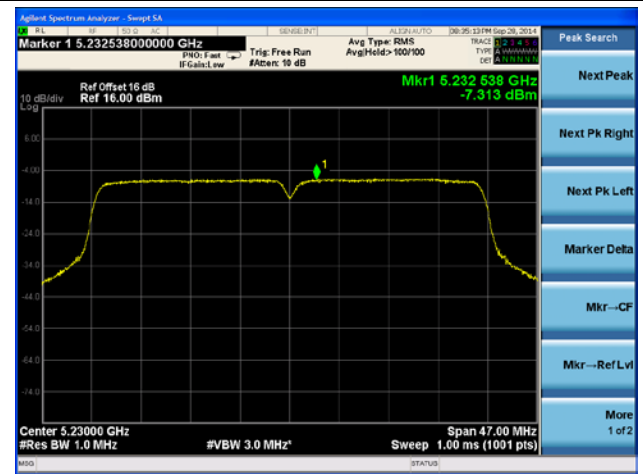


802.11n-HT40 Power Spectral Density - Ant 1 / Ant 0+1

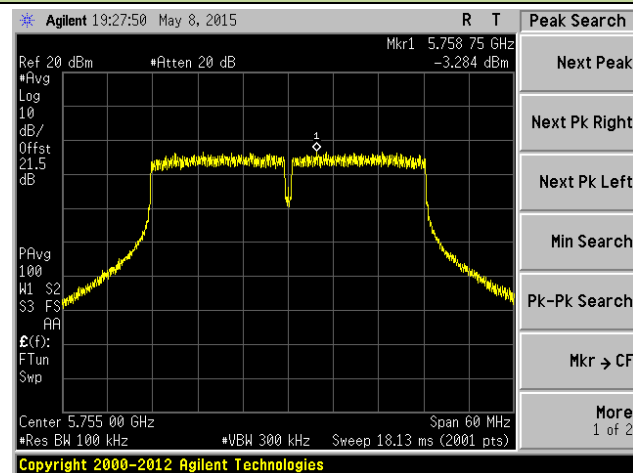
Channel 38 (5190MHz)



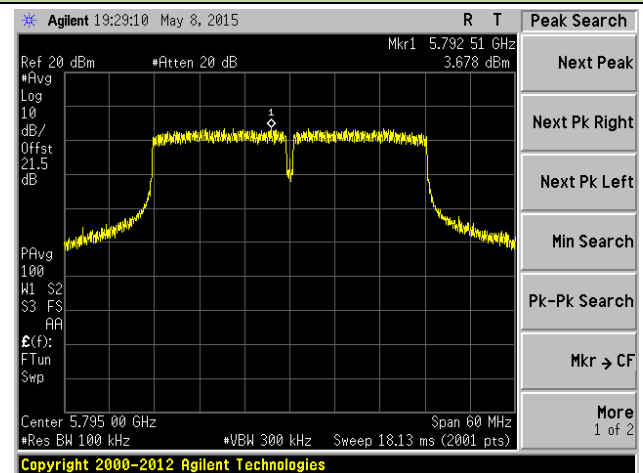
Channel 46 (5230MHz)



Channel 151 (5755 MHz)

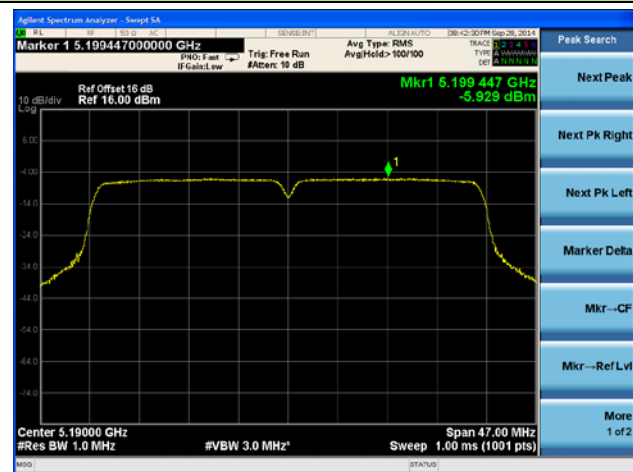


Channel 159 (5795 MHz)

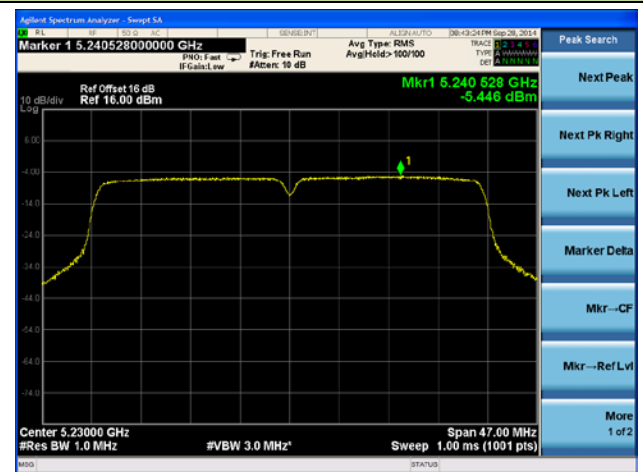


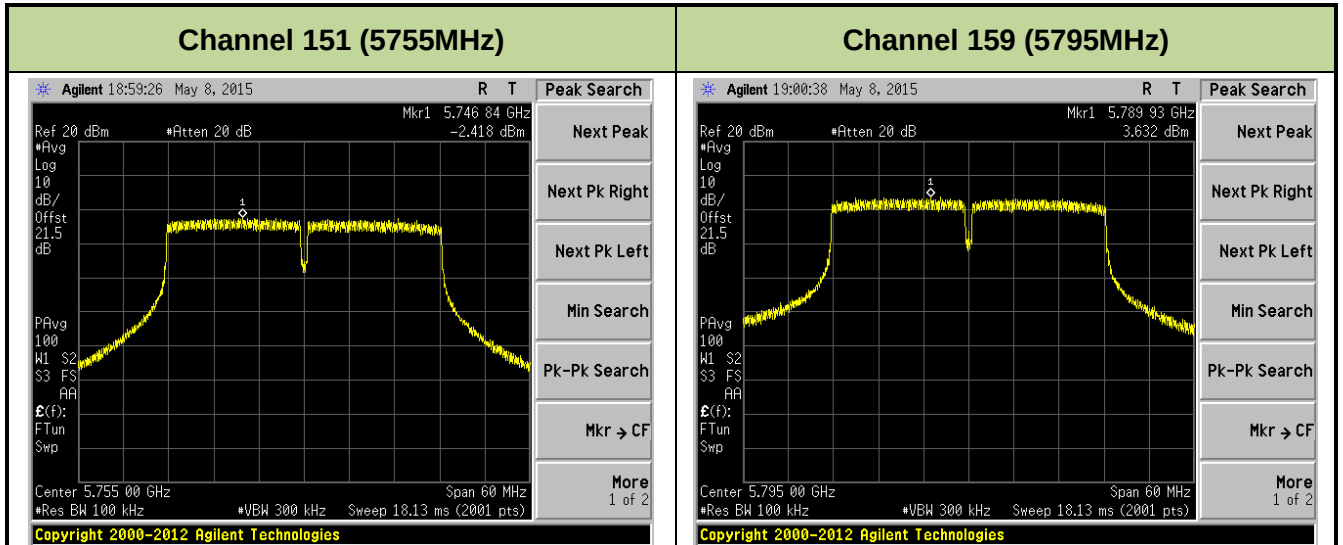
802.11ac-VHT40 Power Spectral Density - Ant 0

Channel 38 (5190MHz)

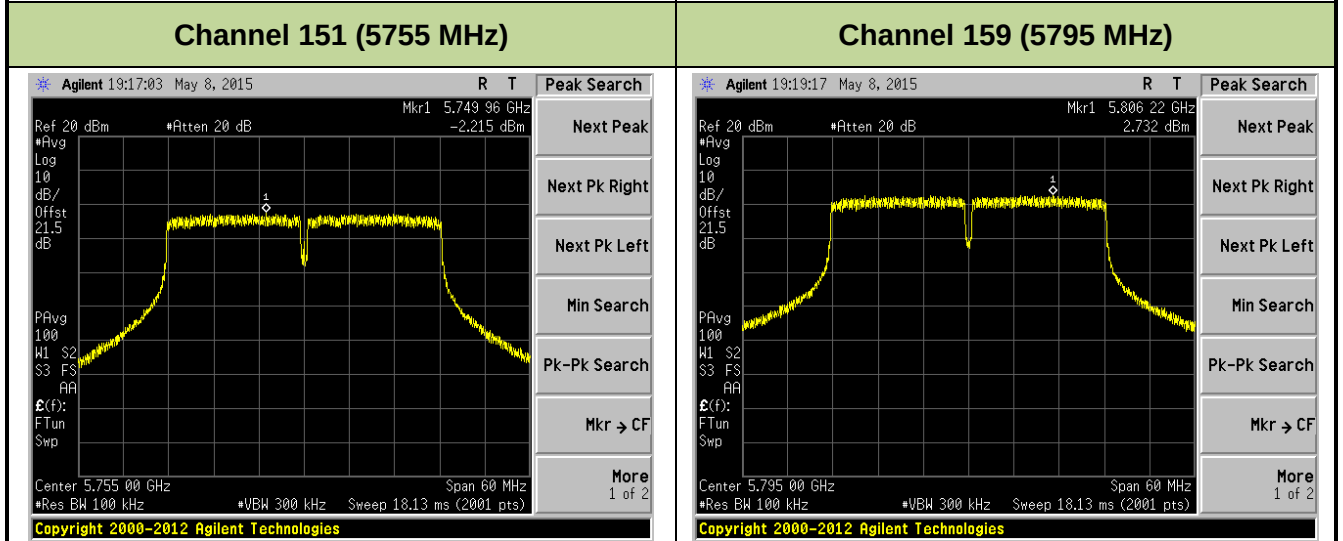
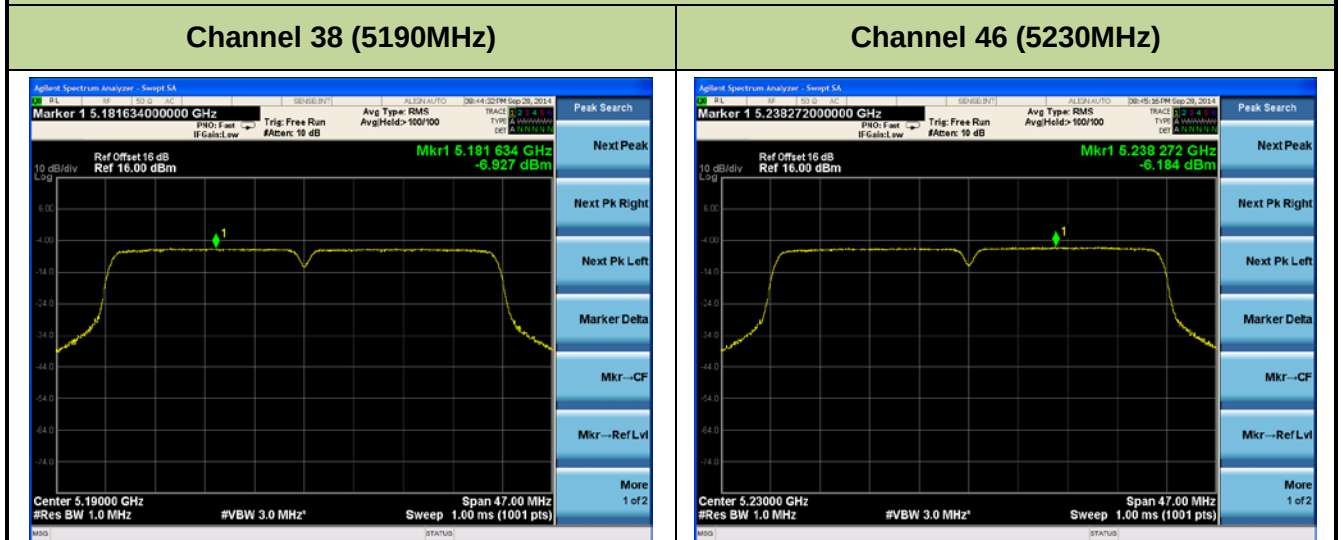


Channel 46 (5230MHz)



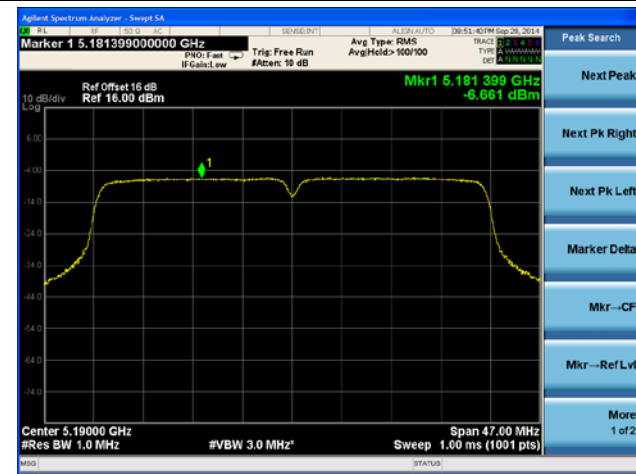


802.11ac-VHT40 Power Spectral Density - Ant 1

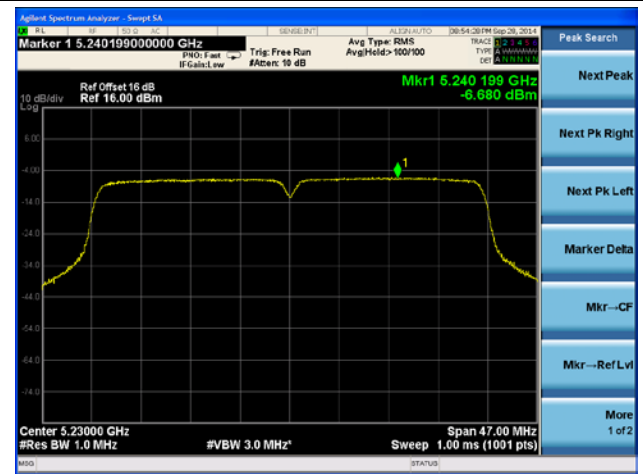


802.11ac-VHT40 Power Spectral Density - Ant 0 / Ant 0+1

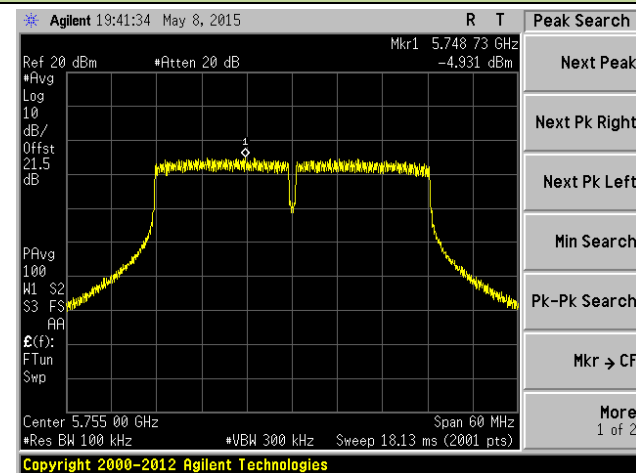
Channel 38 (5190MHz)



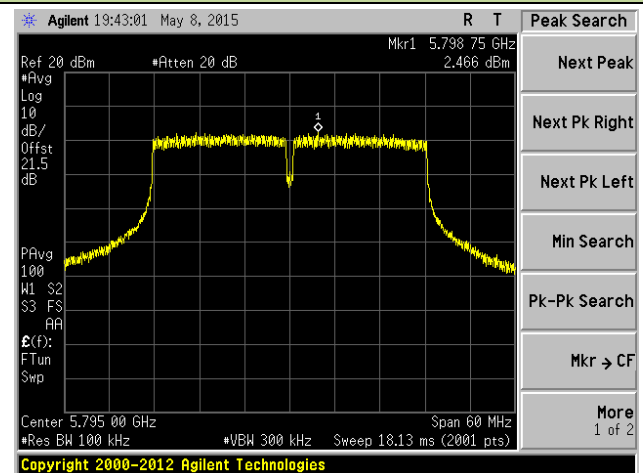
Channel 46 (5230MHz)



Channel 151 (5755MHz)

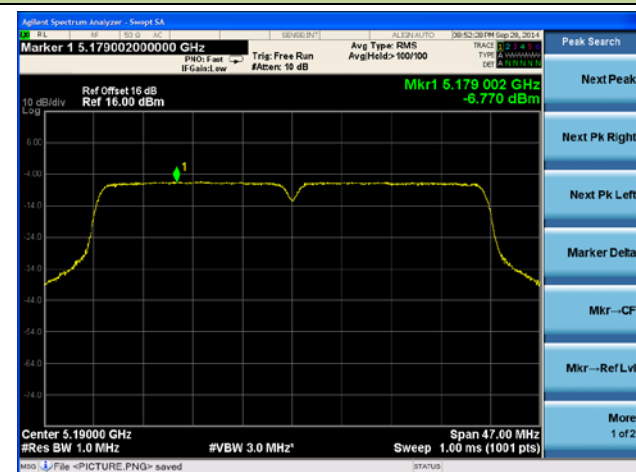


Channel 159 (5795MHz)

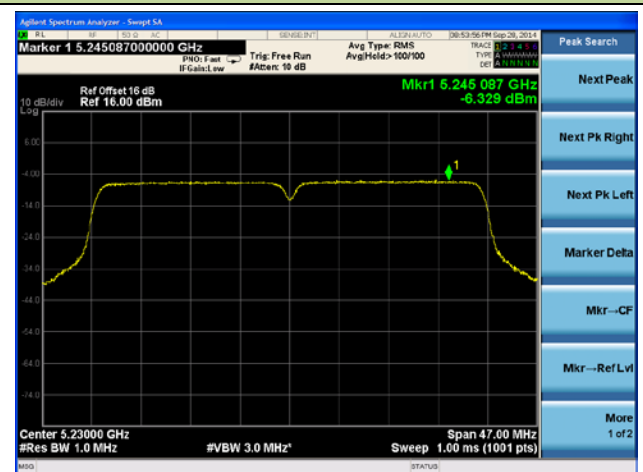


802.11ac-VHT40 Power Spectral Density - Ant 1 / Ant 0+1

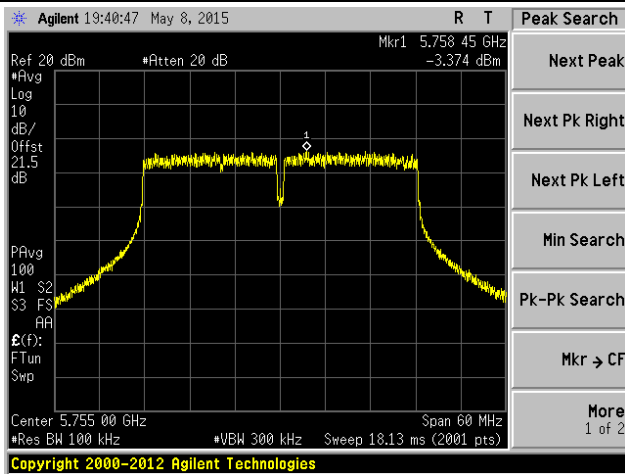
Channel 38 (5190MHz)



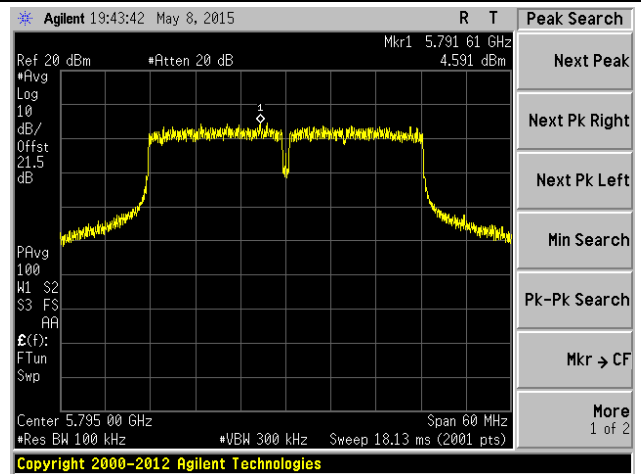
Channel 46 (5230MHz)



Channel 151 (5755 MHz)

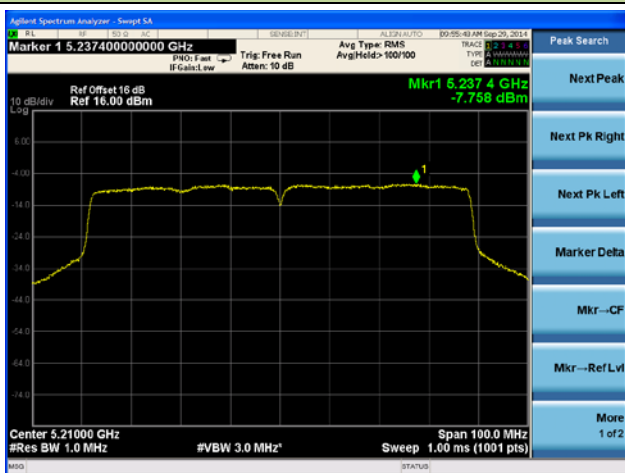


Channel 159 (5795 MHz)

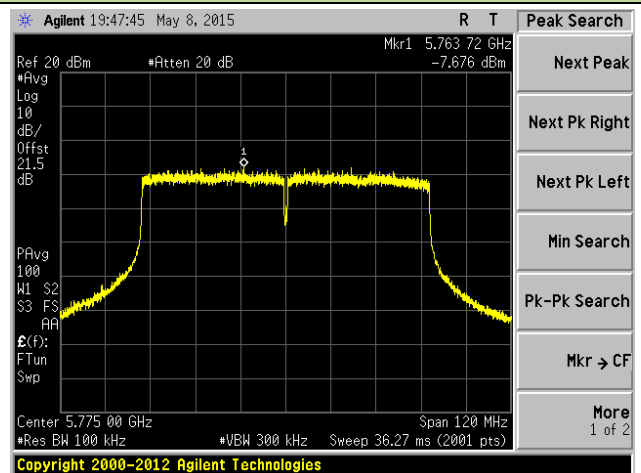


802.11ac-VHT80 Power Spectral Density - Ant 0

Channel 42 (5210MHz)

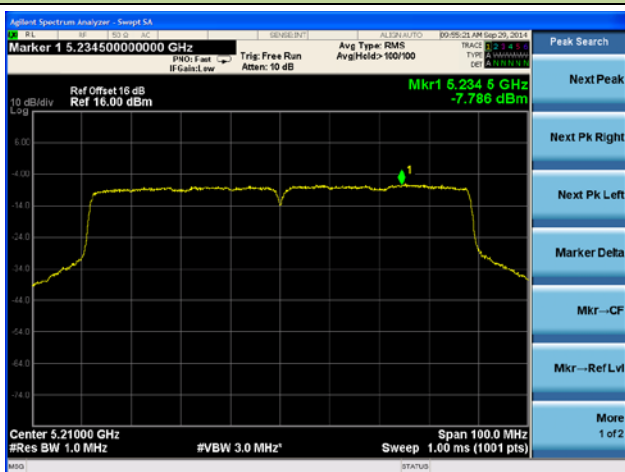


Channel 155 (5775MHz)

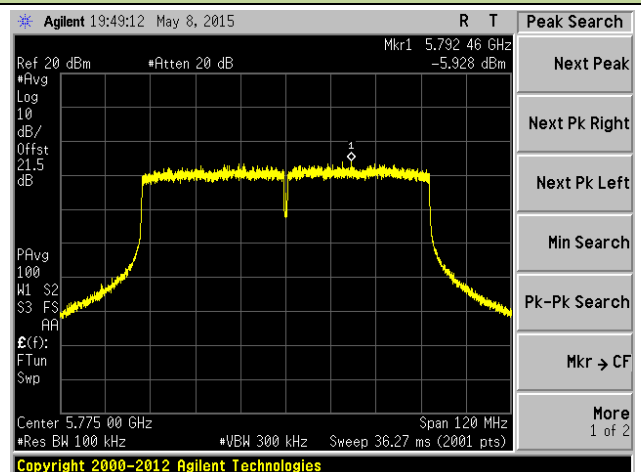


802.11ac-VHT80 Power Spectral Density - Ant 1

Channel 42 (5210MHz)

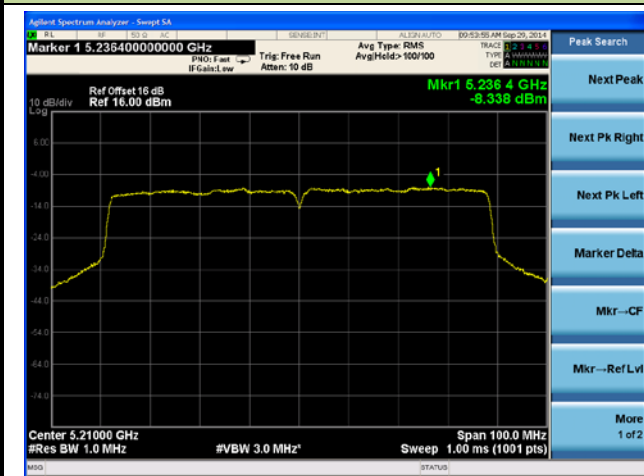


Channel 155 (5775MHz)

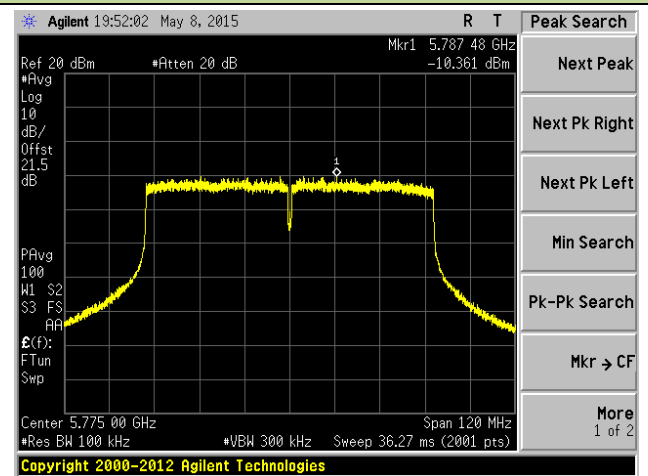


802.11ac-VHT80 Power Spectral Density - Ant 0 / Ant 0+1

Channel 42 (5210MHz)

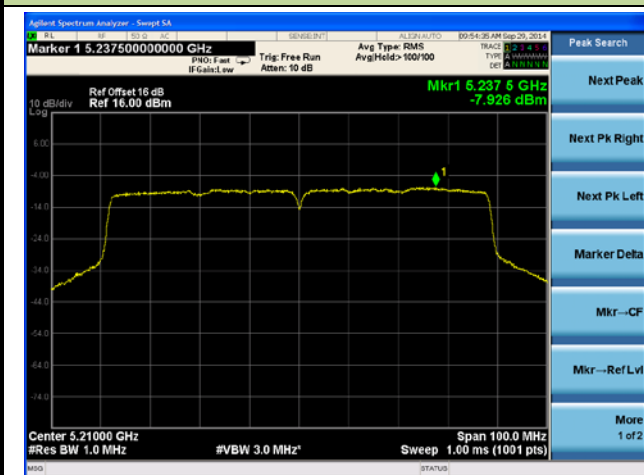


Channel 155 (5775MHz)

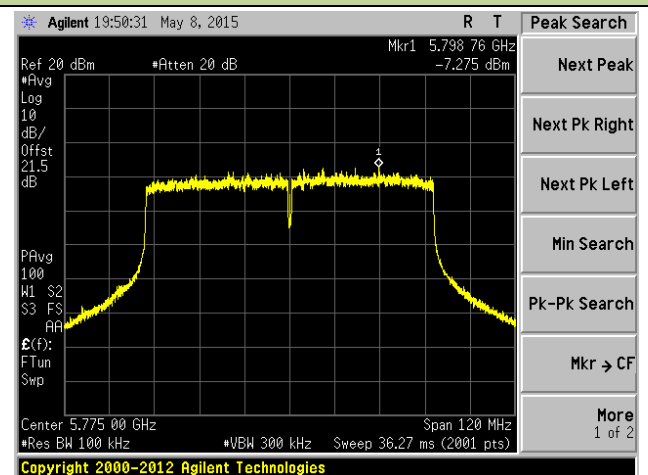


802.11ac-VHT80 Power Spectral Density - Ant 1 / Ant 0+1

Channel 42 (5210MHz)



Channel 155 (5775MHz)



7.6. Frequency Stability Measurement

7.6.1. Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

7.6.2. Test Procedure Used

Frequency Stability Under Temperature Variations:

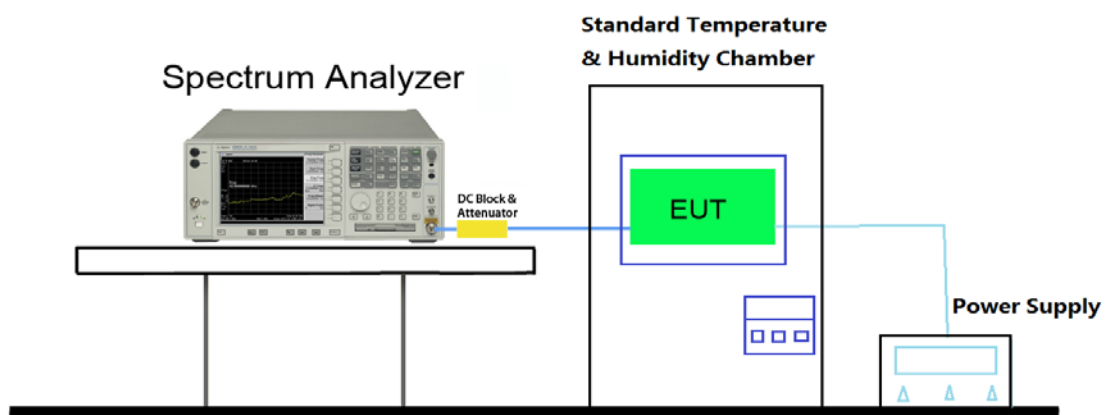
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

7.6.3. Test Setup



7.6.4. Test Result

Voltage (%)	Power (VAC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100%	120	+ 20 (Ref)	5220019987.053	19987.053	0.000383
			5784998129.676	-1870.324	-0.000032
		- 30	5220042516.578	42516.578	0.000814
			5785032755.439	32755.439	0.000566
		- 20	5220040402.431	40402.431	0.000774
			5785017426.815	17426.815	0.000301
		- 10	5220041571.188	41571.188	0.000796
			5785042851.920	42851.920	0.000741
		0	5220017250.488	17250.488	0.000330
			5785044289.640	44289.640	0.000766
		+ 10	5220017406.500	17406.500	0.000333
			5785002853.337	2853.337	0.000049
		+ 20	5220035486.420	35486.420	0.000680
			5784997798.902	-2201.098	-0.000038
		+ 30	5219990111.201	-9888.799	-0.000189
			5785021560.261	21560.261	0.000373
		+ 40	5220006802.956	6802.956	0.000130
			5784998357.554	-1642.446	-0.000028
		+ 50	5219997278.429	-2721.571	-0.000052
			5784994465.408	-5534.592	-0.000096
115%	138	+ 20	5220009730.503	9730.503	0.000186
			5784992960.095	-7039.905	-0.000122
85%	102	+ 20	5220005070.134	5070.134	0.000097
			5784992224.332	-7775.668	-0.000134