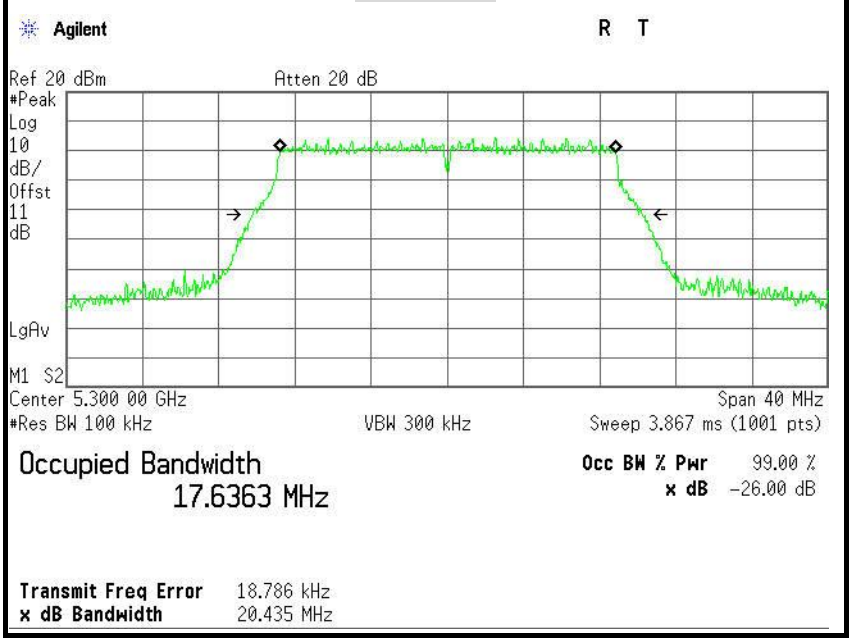
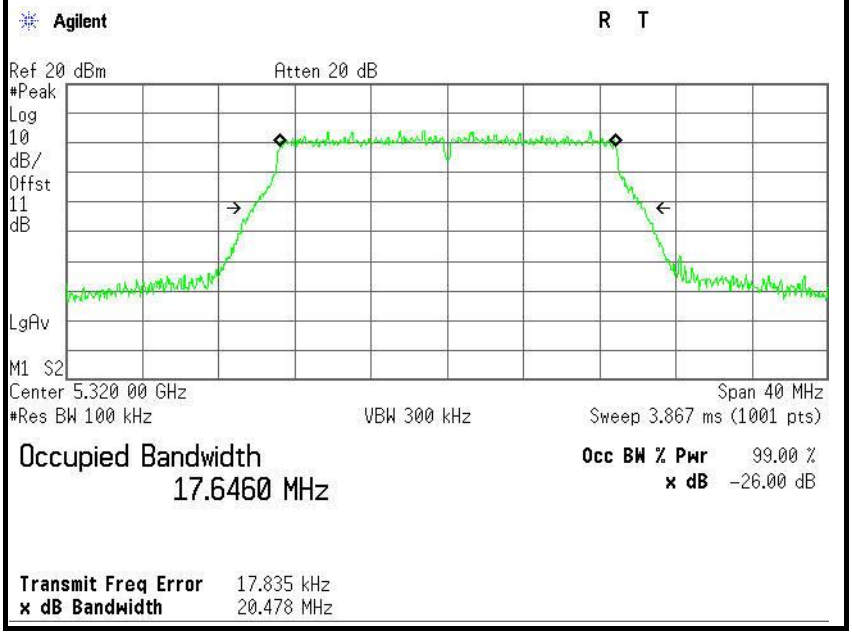
26dB Bandwidth (CH Mid)

Antenna 0



26dB Bandwidth (CH High)

Antenna 0



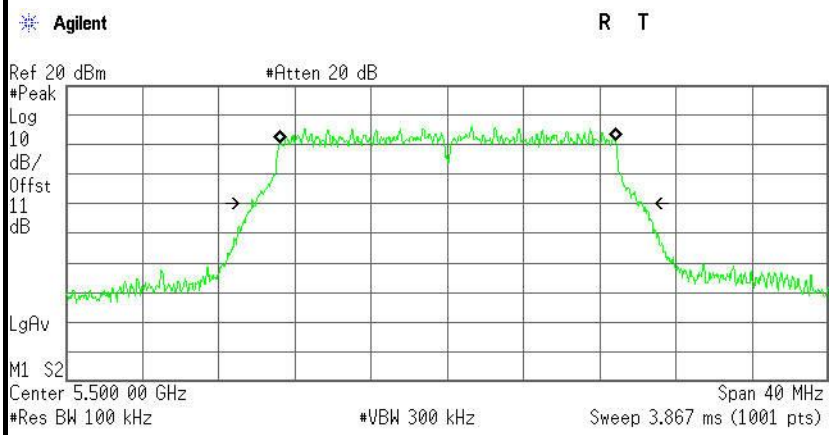
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 20 MHz mode /

5500 ~ 5700MHz

26dB Bandwidth (CH Low)

Antenna 0



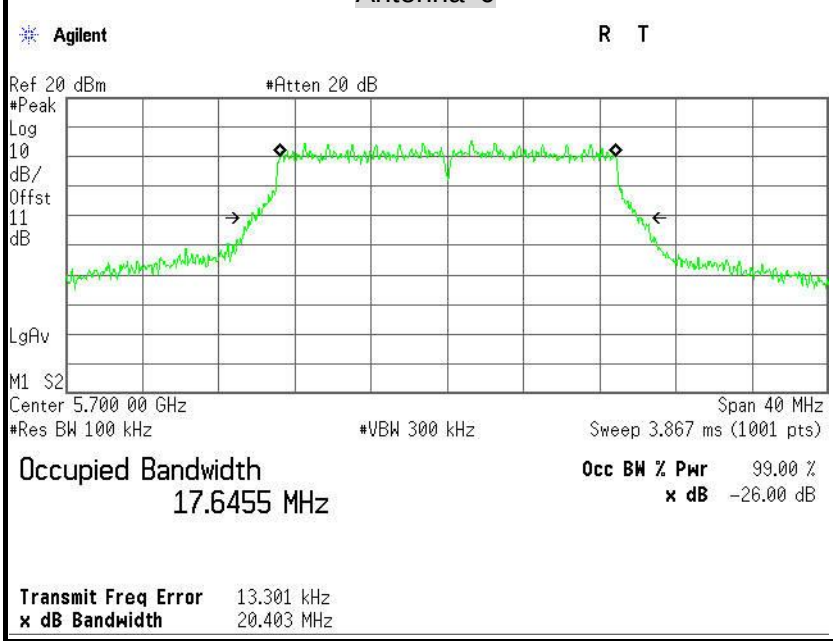
26dB Bandwidth (CH Mid)

Antenna 0

This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

26dB Bandwidth (CH High)

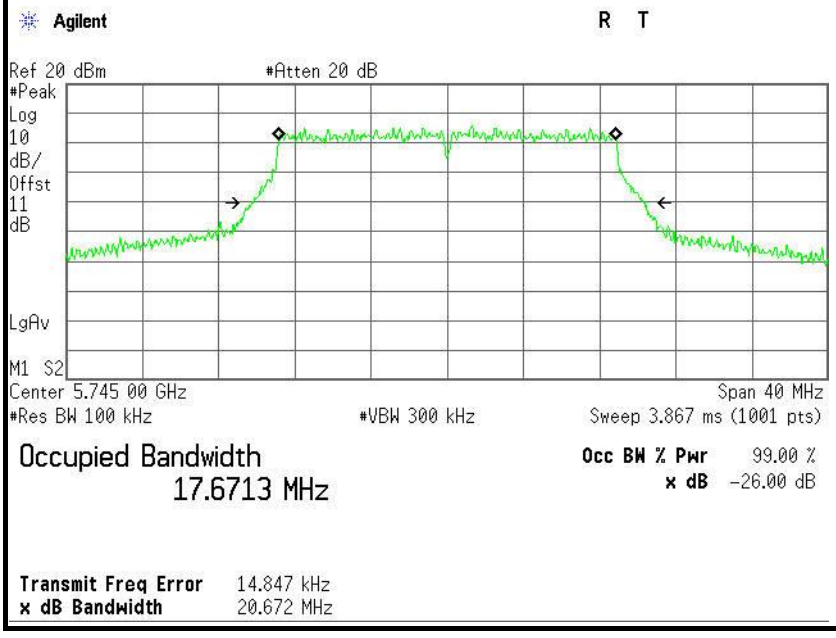
Antenna 0



IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

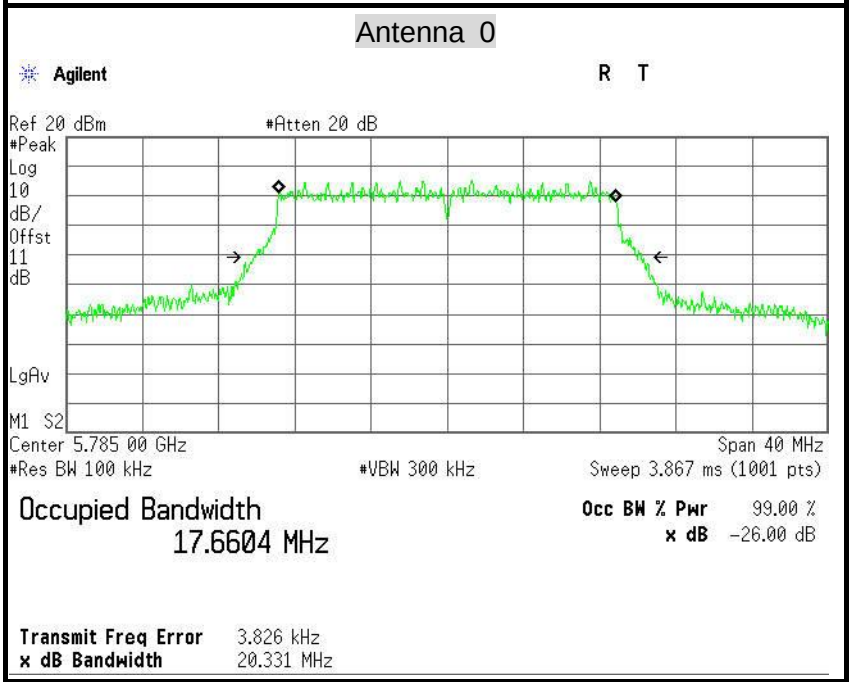
26dB Bandwidth (CH Low)

Antenna 0

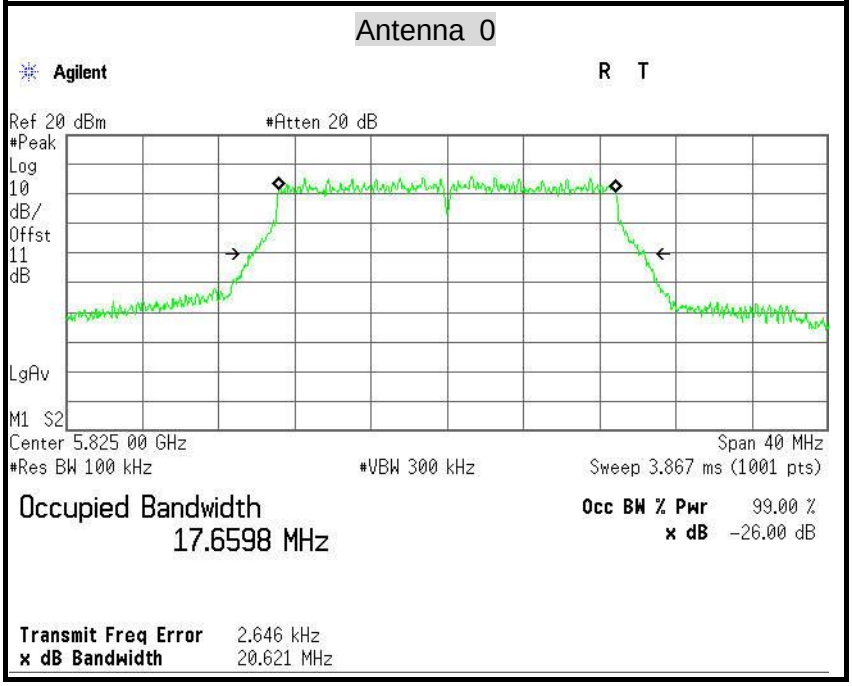


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

26dB Bandwidth (CH Mid)



26dB Bandwidth (CH High)

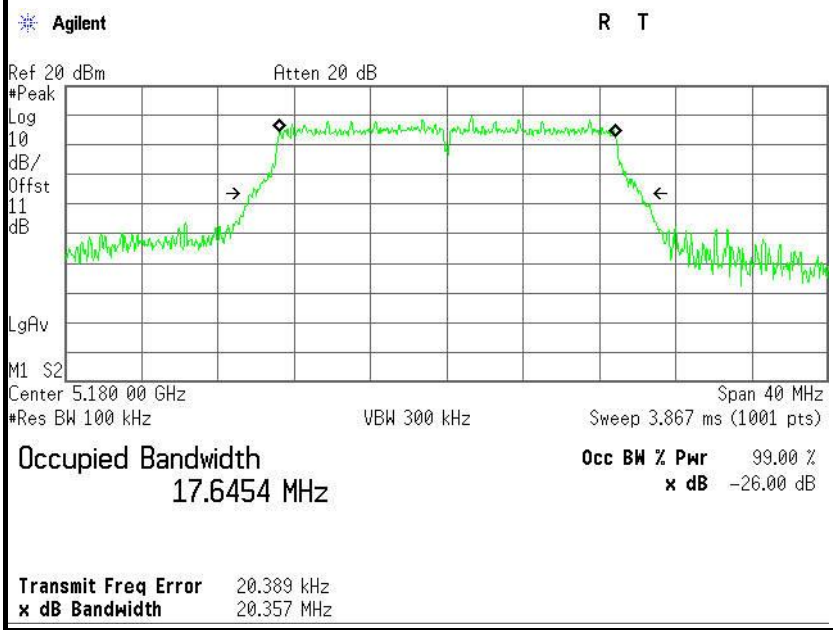


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

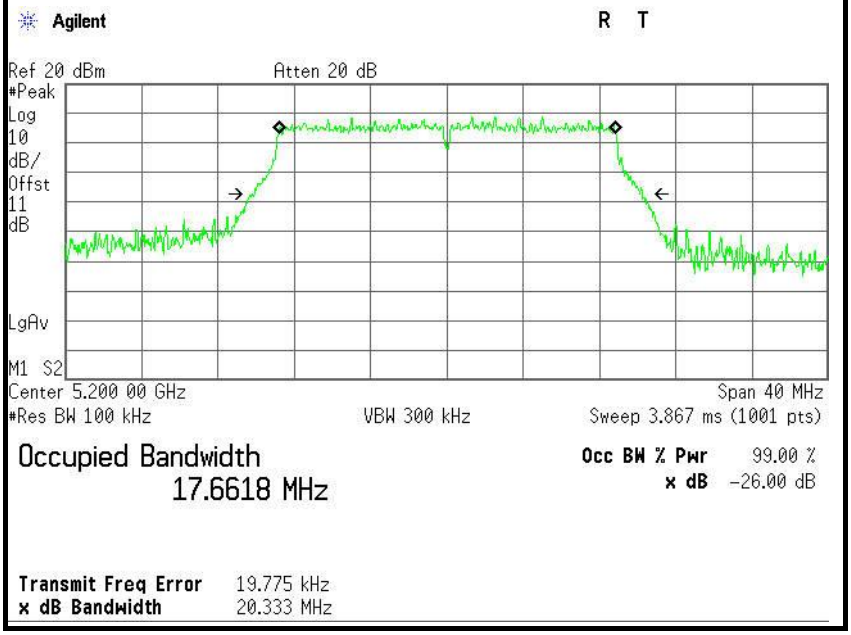
26dB Bandwidth (CH Low)

Antenna 1



26dB Bandwidth (CH Mid)

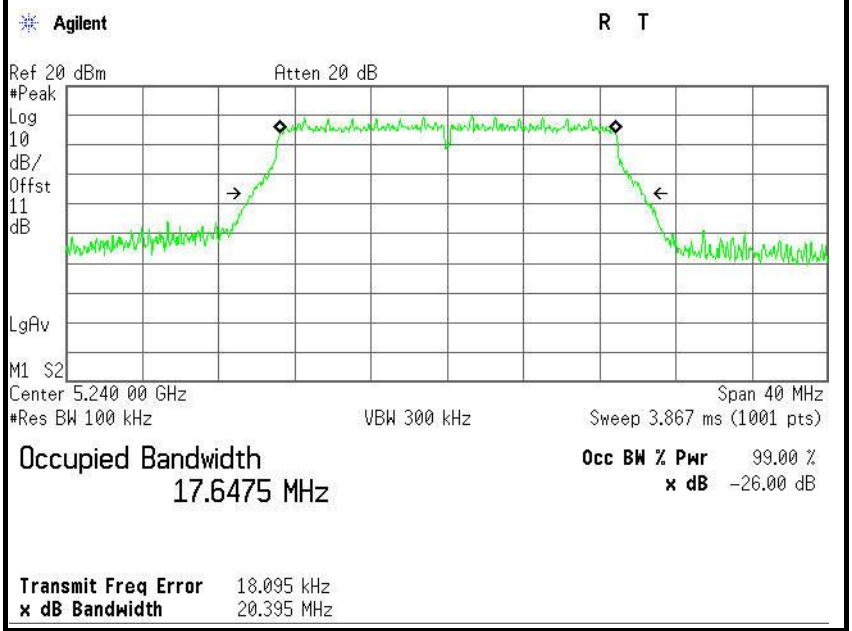
Antenna 1



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

26dB Bandwidth (CH High)

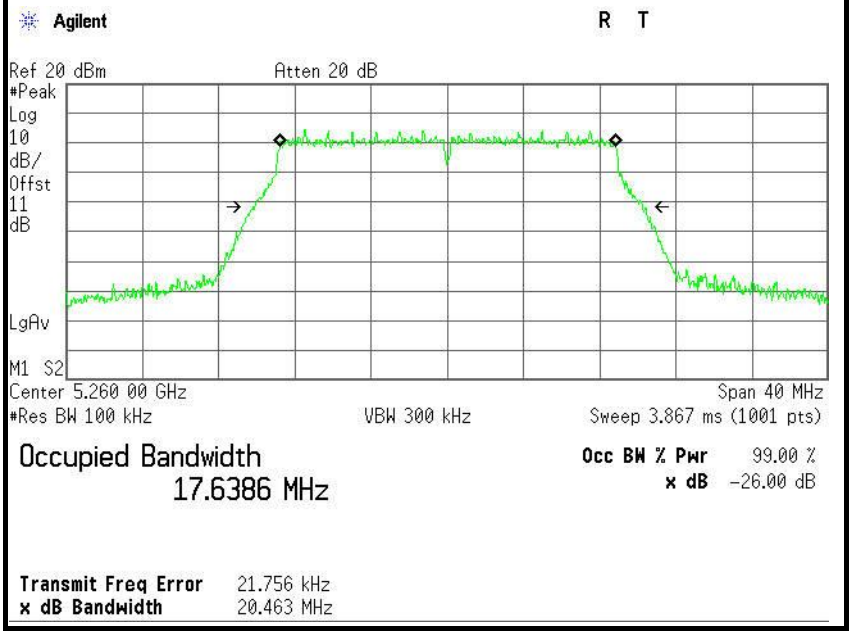
Antenna 1



IEEE 802.11n HT 20 MHz mode / 5260~ 5320MHz

26dB Bandwidth (CH Low)

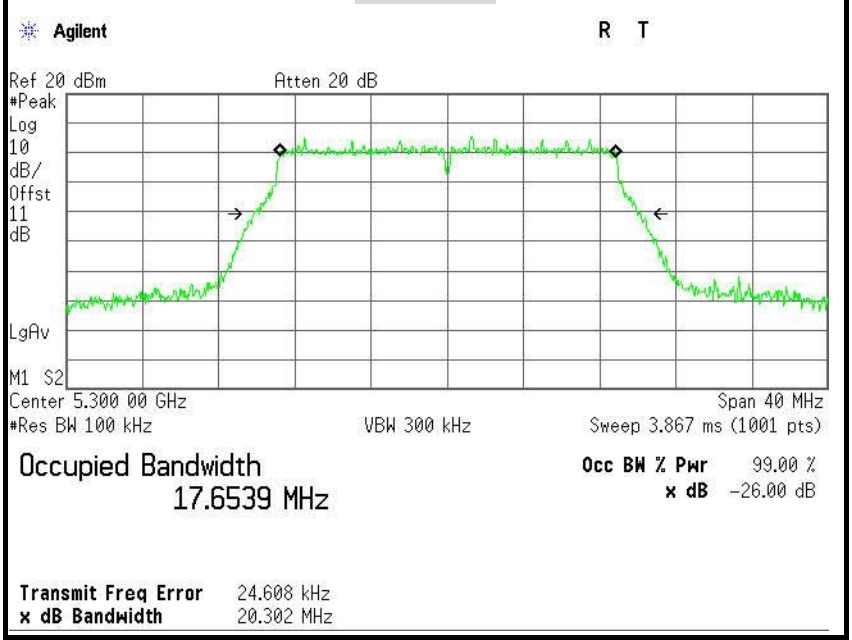
Antenna 1



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

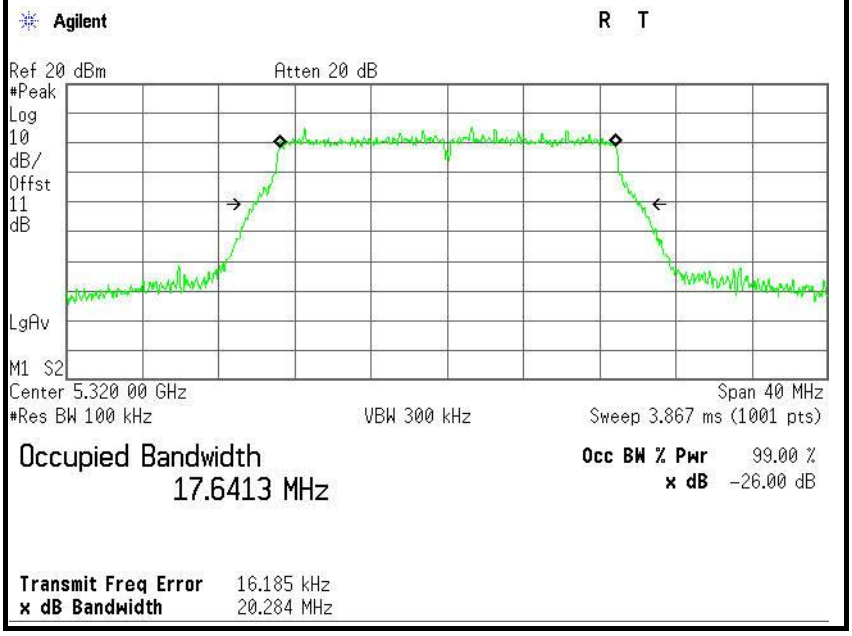
26dB Bandwidth (CH Mid)

Antenna 1



26dB Bandwidth (CH High)

Antenna 1



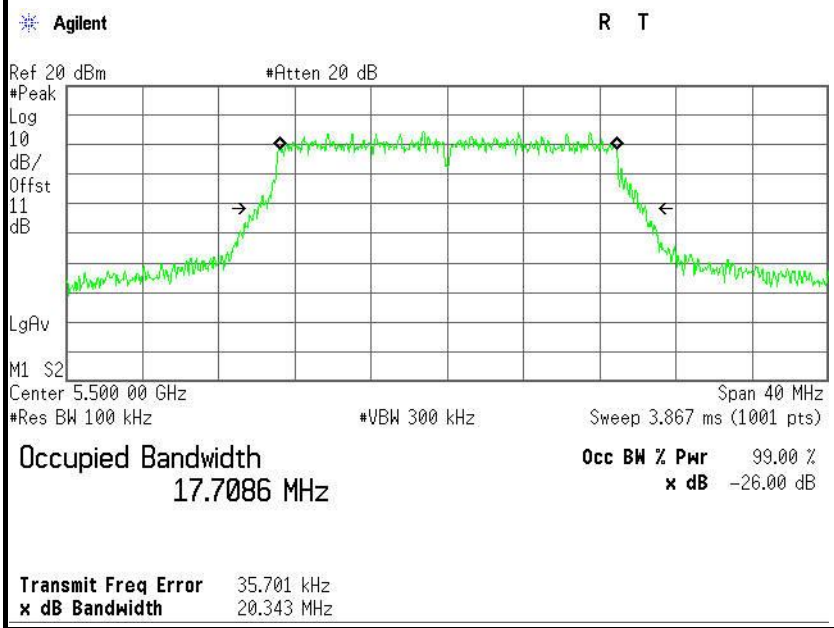
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 20 MHz mode /

5500 ~ 5700MHz

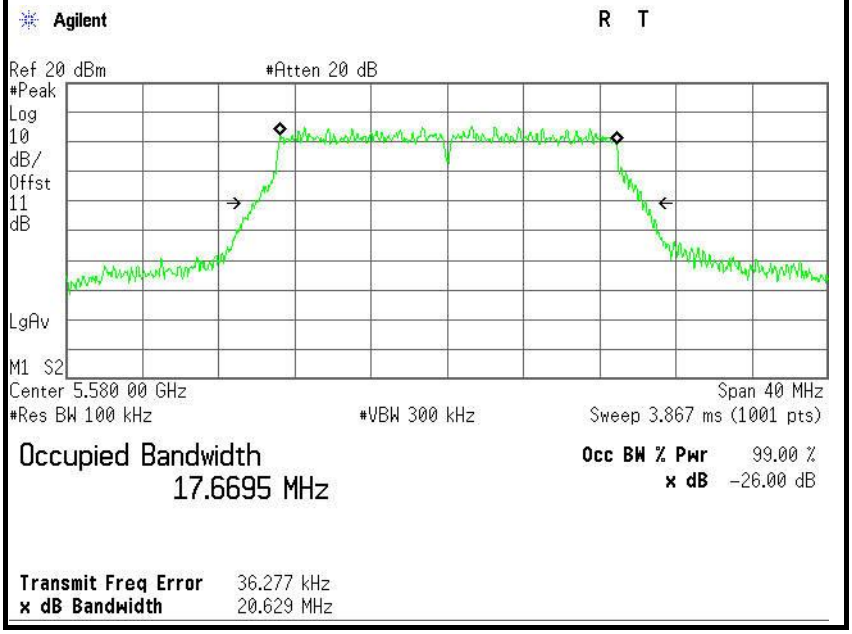
26dB Bandwidth (CH Low)

Antenna 1



26dB Bandwidth (CH Mid)

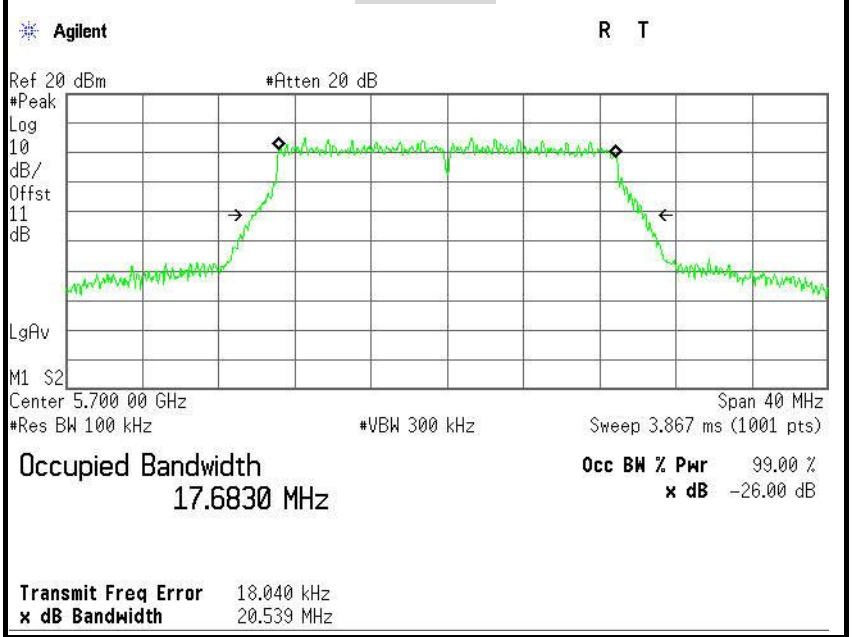
Antenna 1



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

26dB Bandwidth (CH High)

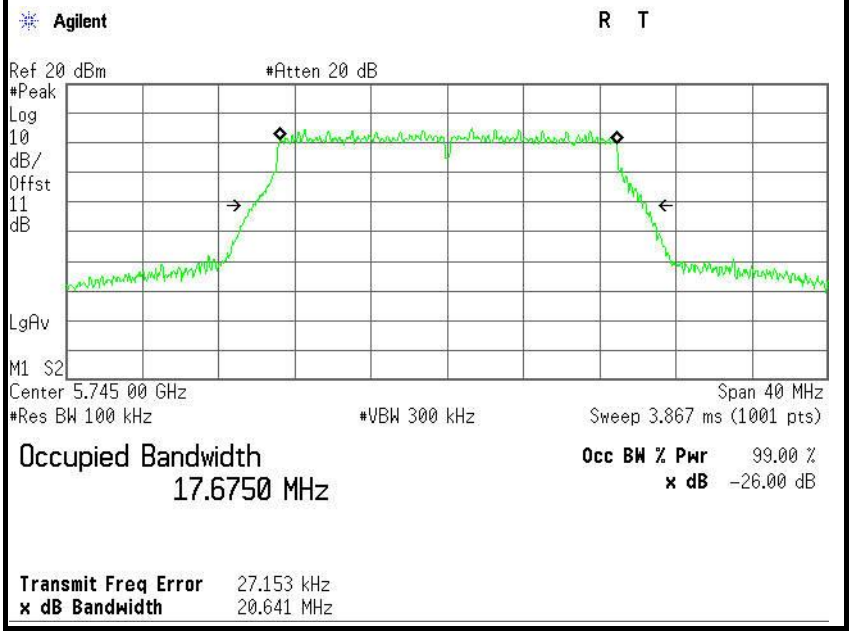
Antenna 1



IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

26dB Bandwidth (CH Low)

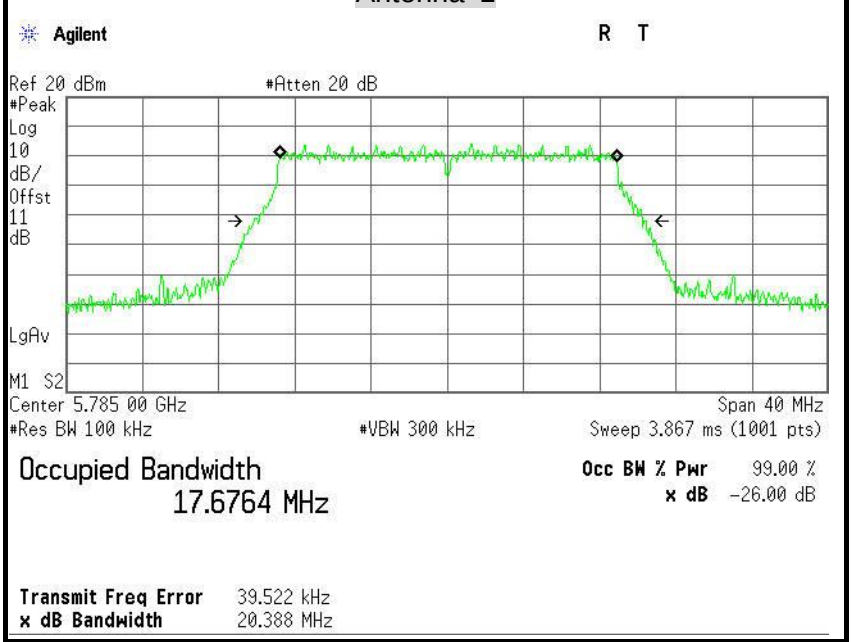
Antenna 1



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

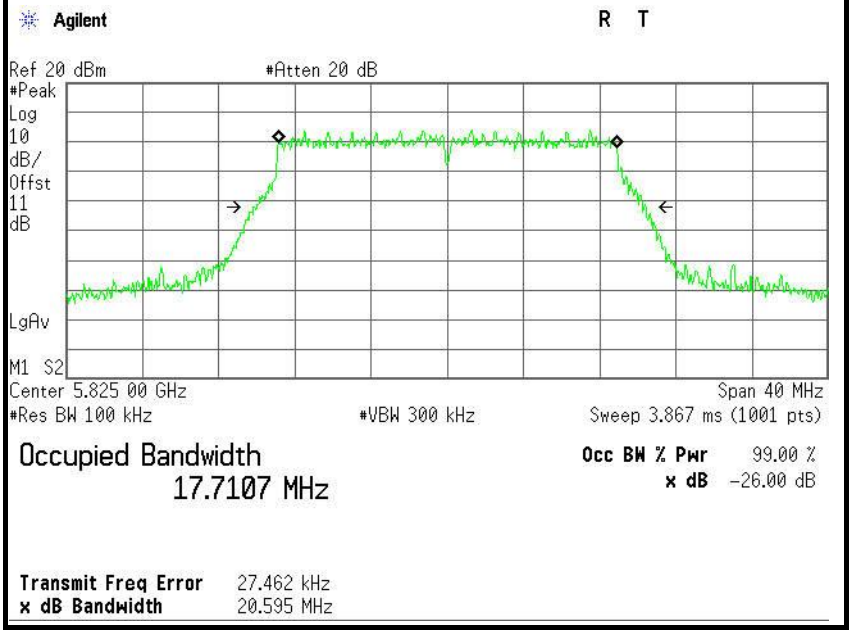
26dB Bandwidth (CH Mid)

Antenna 1



26dB Bandwidth (CH High)

Antenna 1

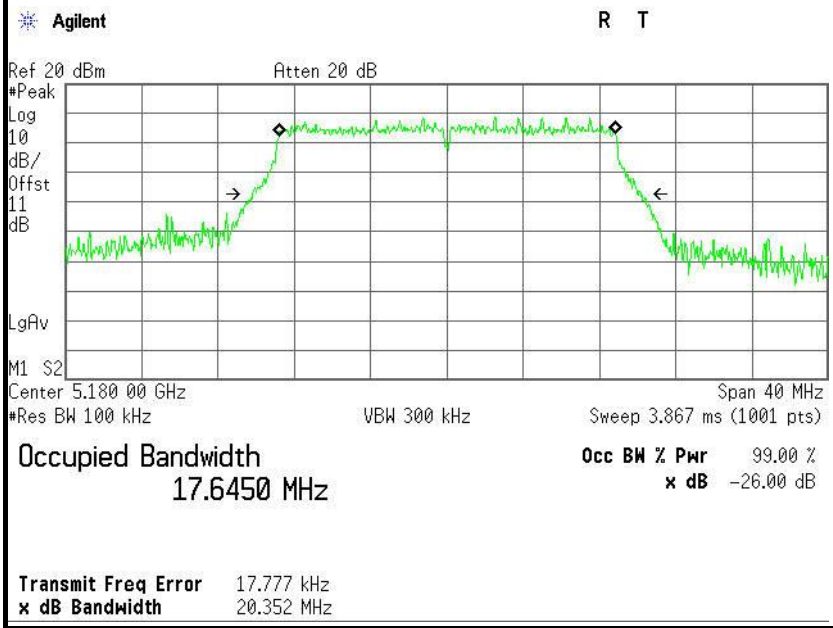


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

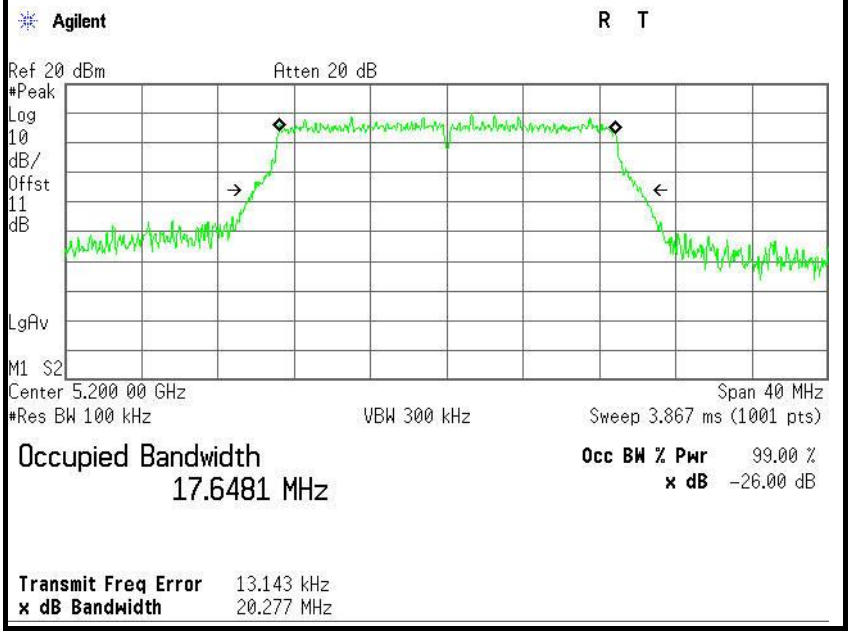
26dB Bandwidth (CH Low)

Antenna 2



26dB Bandwidth (CH Mid)

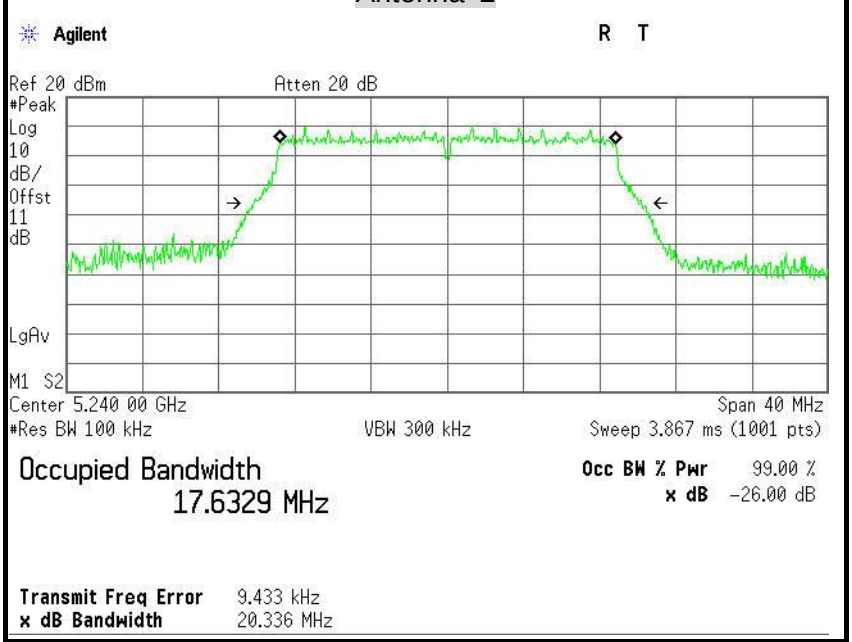
Antenna 2



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

26dB Bandwidth (CH High)

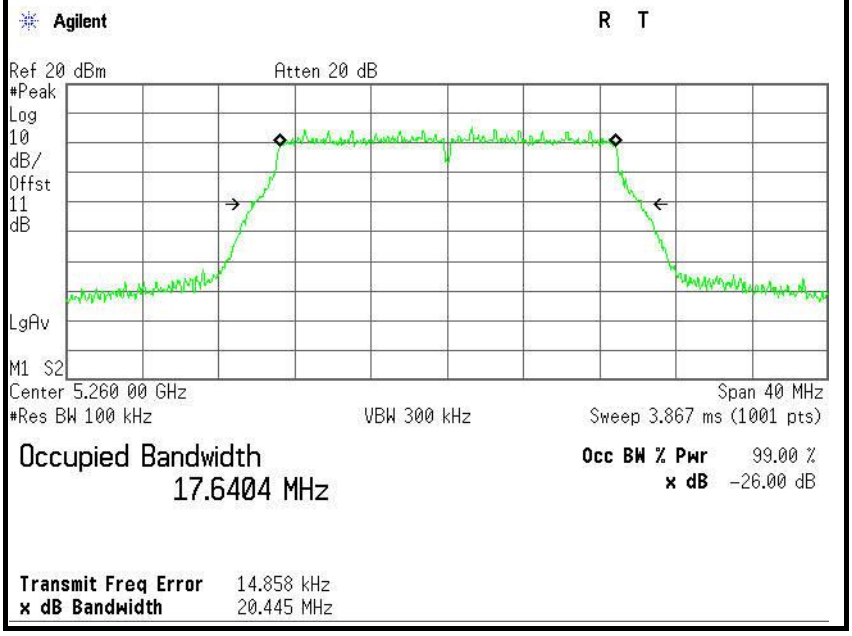
Antenna 2



IEEE 802.11n HT 20 MHz mode / 5260~ 5320MHz

26dB Bandwidth (CH Low)

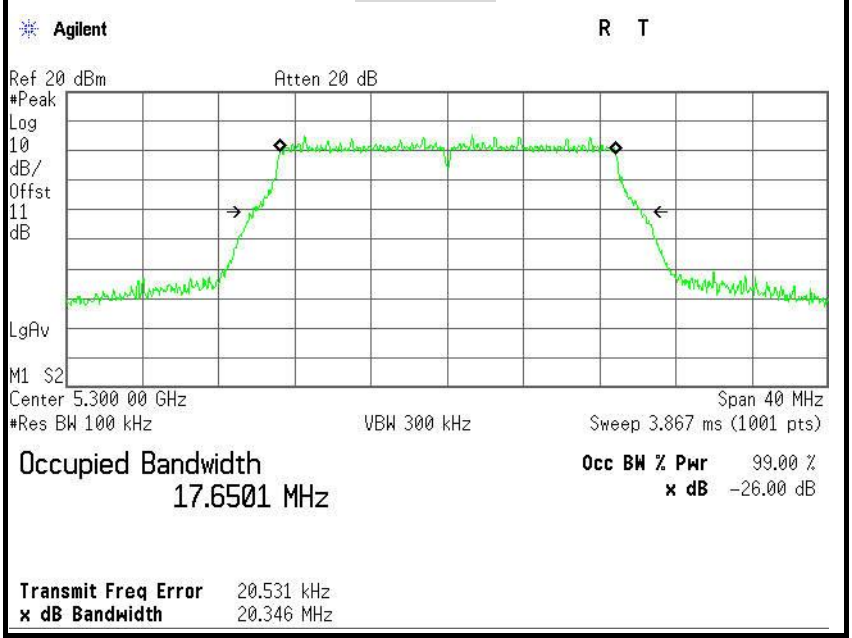
Antenna 2



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

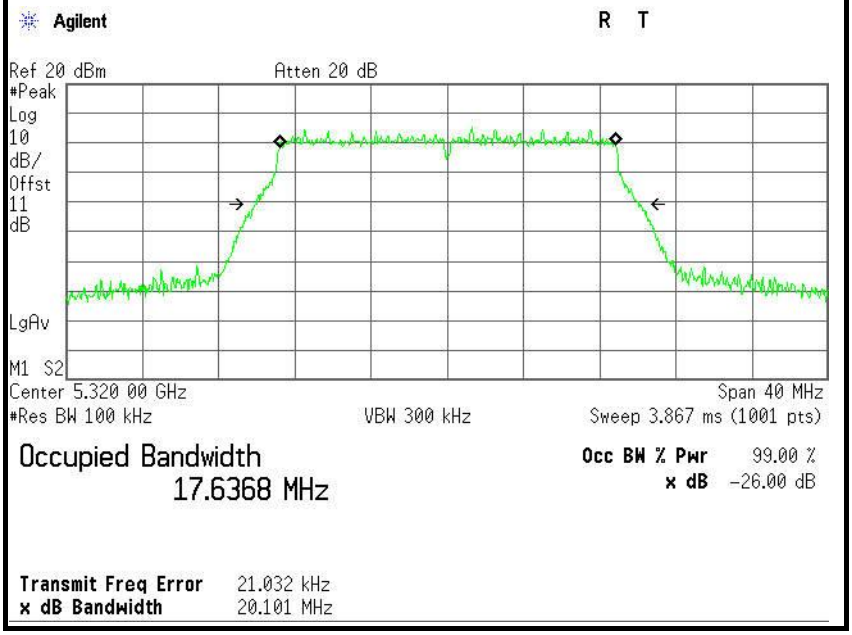
26dB Bandwidth (CH Mid)

Antenna 2



26dB Bandwidth (CH High)

Antenna 2



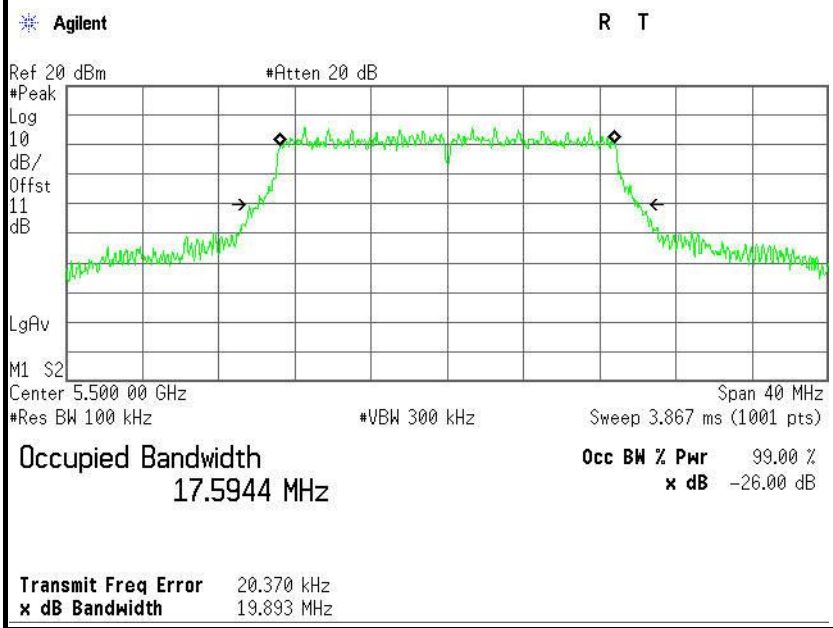
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 20 MHz mode /

5500 ~ 5700MHz

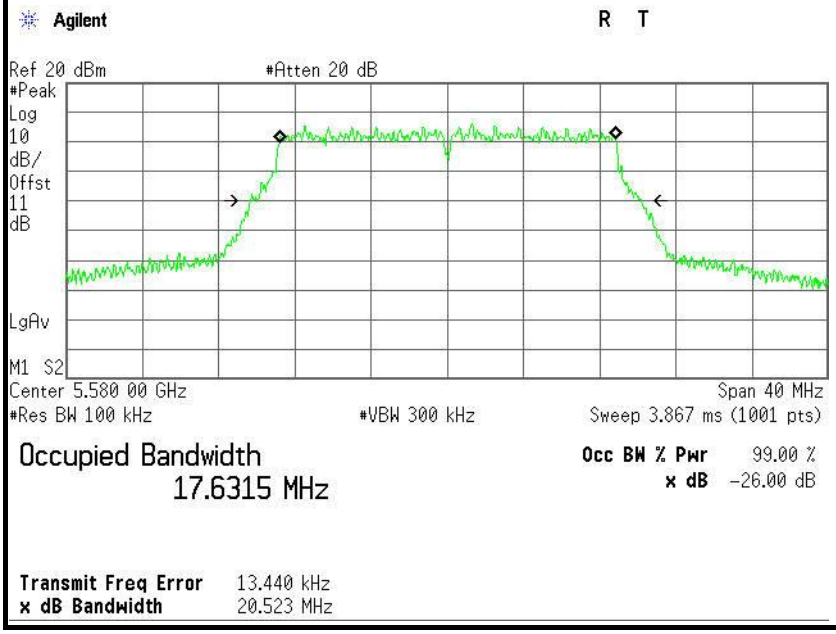
26dB Bandwidth (CH Low)

Antenna 2



26dB Bandwidth (CH Mid)

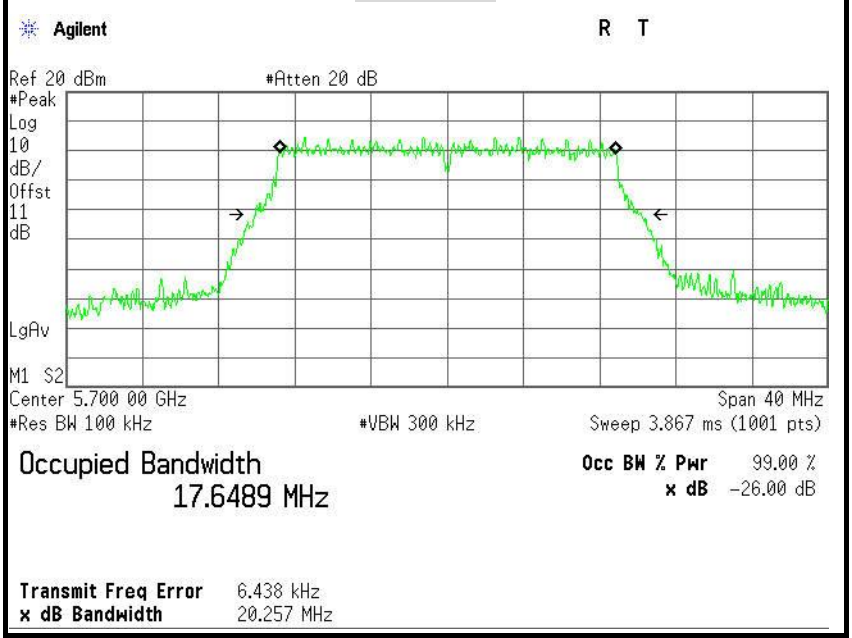
Antenna 2



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

26dB Bandwidth (CH High)

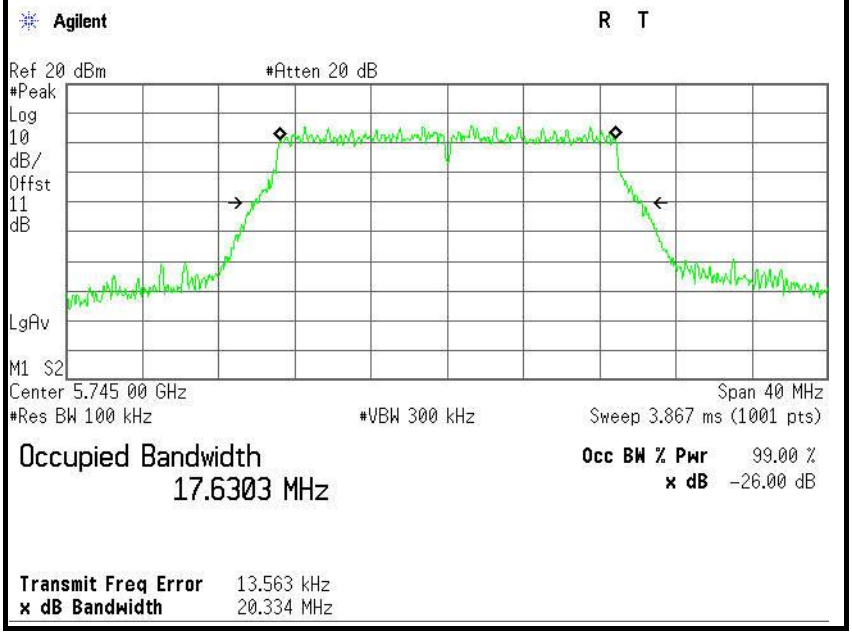
Antenna 2



IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

26dB Bandwidth (CH Low)

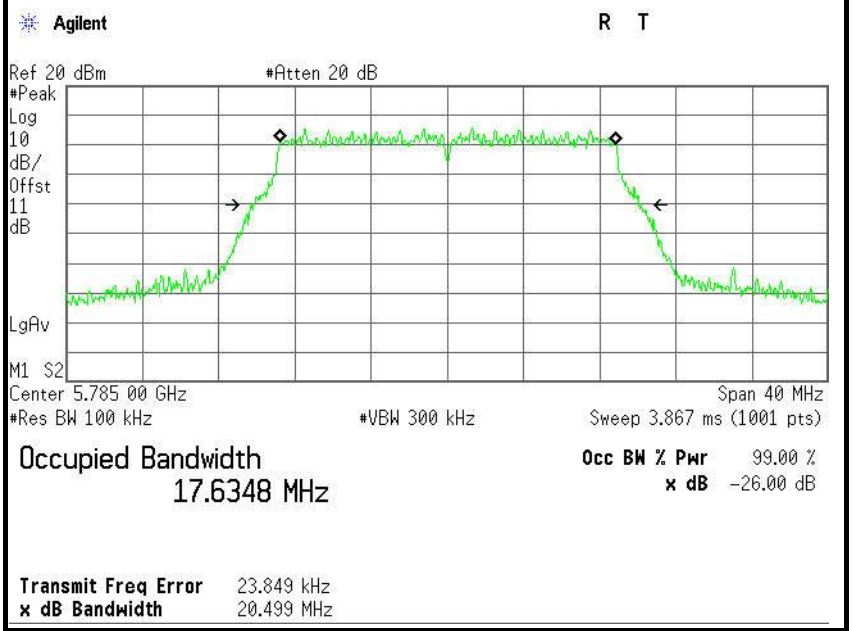
Antenna 2



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

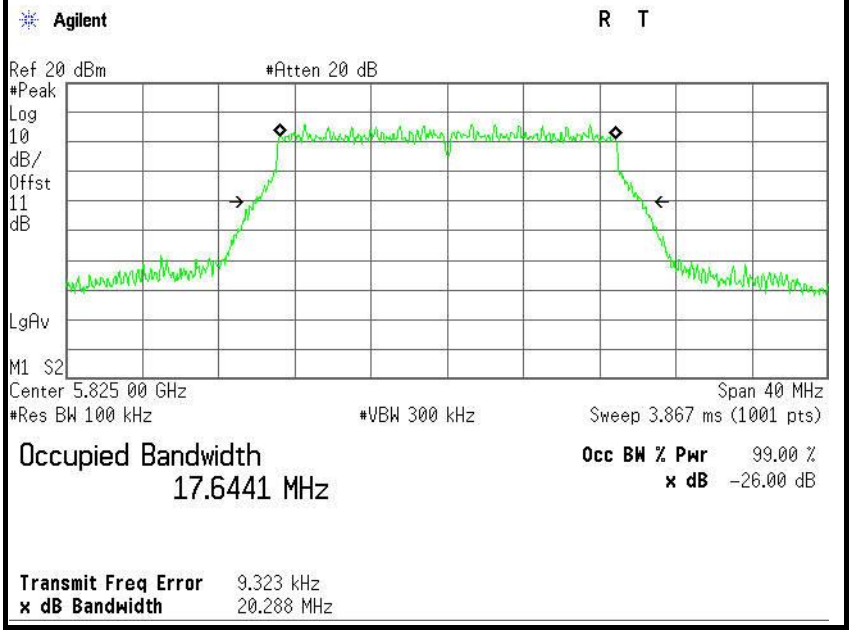
26dB Bandwidth (CH Mid)

Antenna 2



26dB Bandwidth (CH High)

Antenna 2

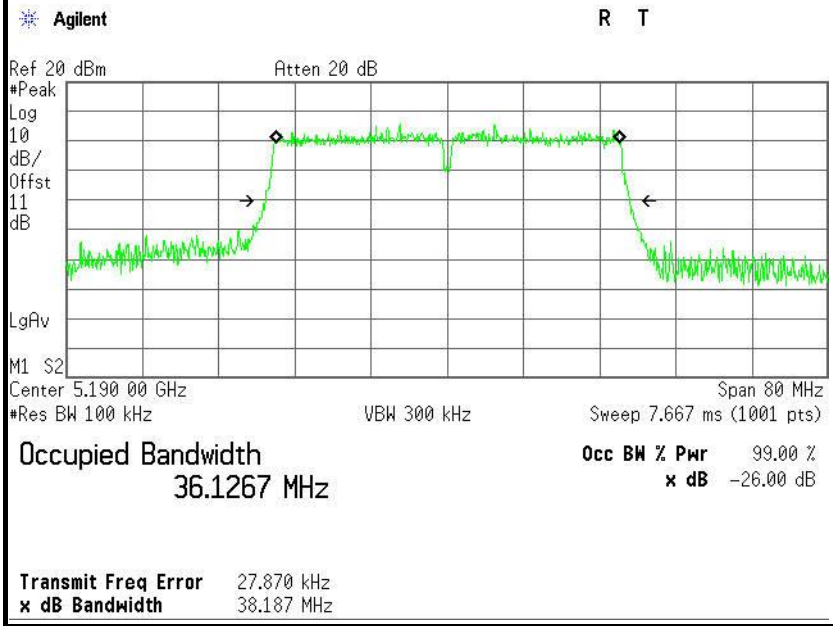


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

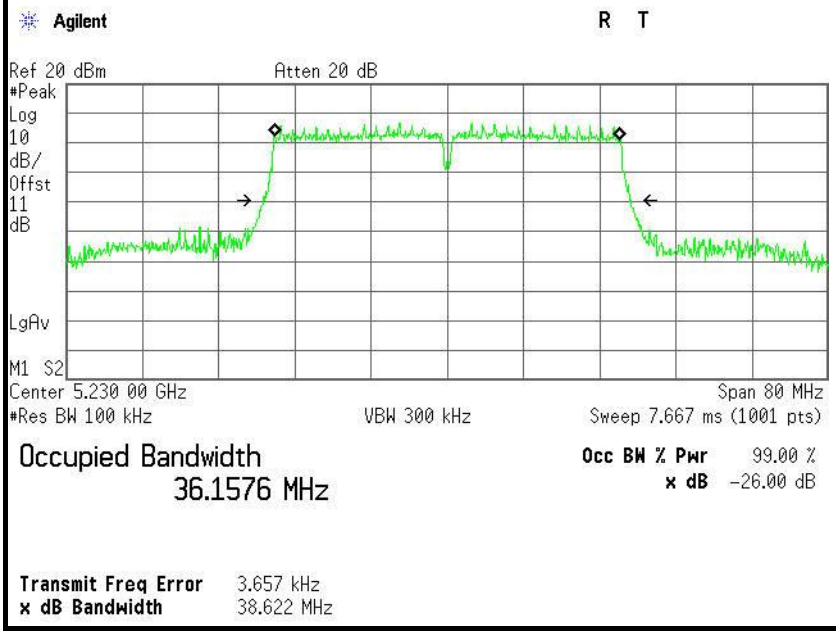
26dB Bandwidth (CH Low)

Antenna 0



26dB Bandwidth (CH High)

Antenna 0

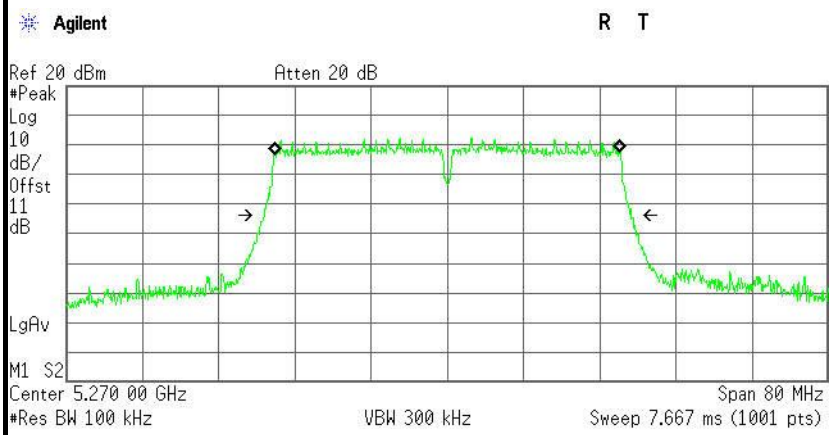


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

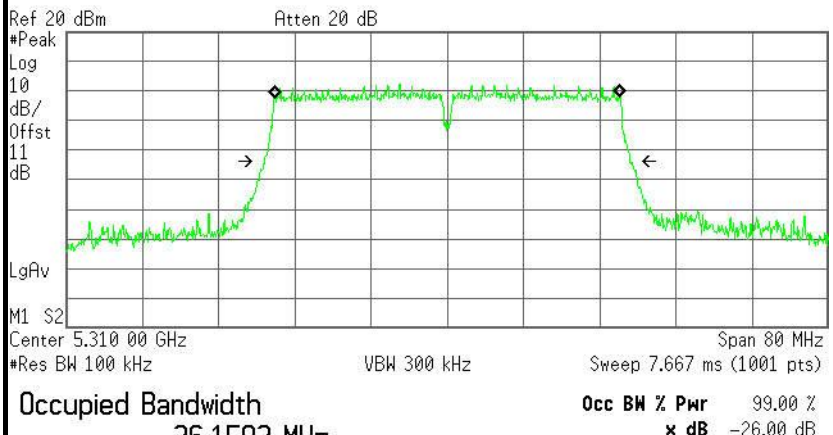
26dB Bandwidth (CH Low)

Antenna 0



26dB Bandwidth (CH High)

Antenna 0

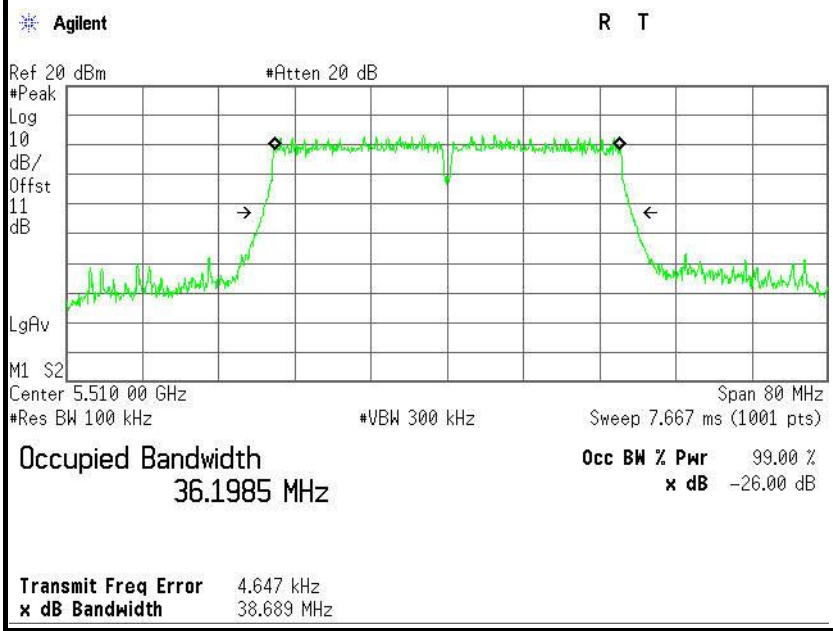


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

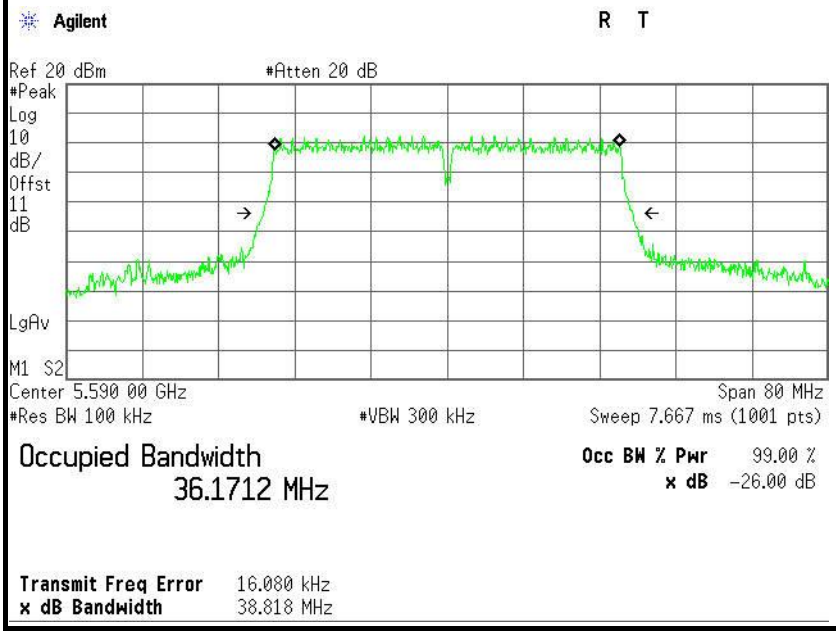
26dB Bandwidth (CH Low)

Antenna 0



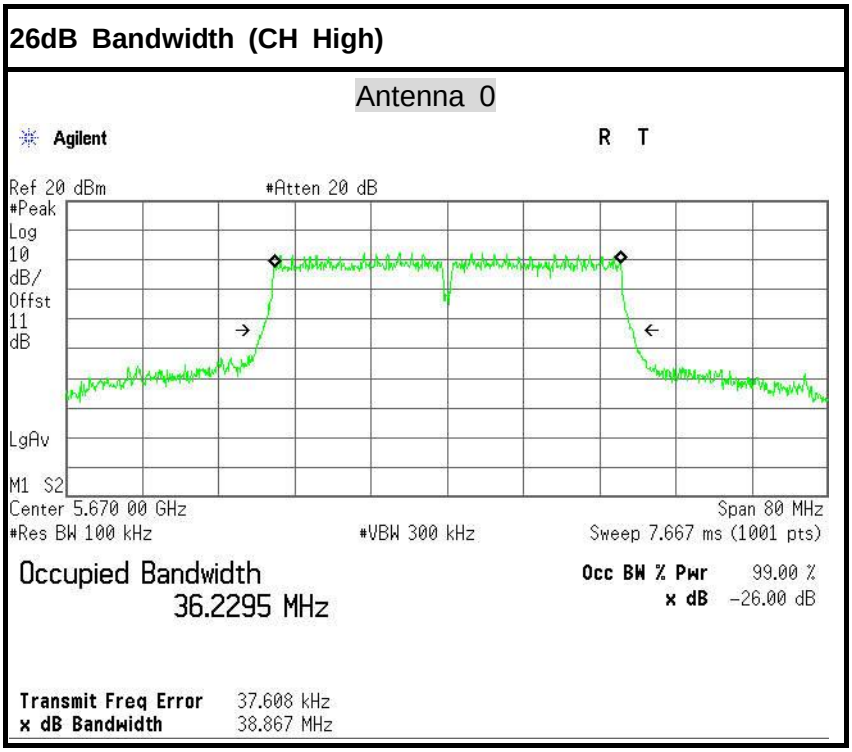
26dB Bandwidth (CH Mid)

Antenna 0



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

26dB Bandwidth (CH High)

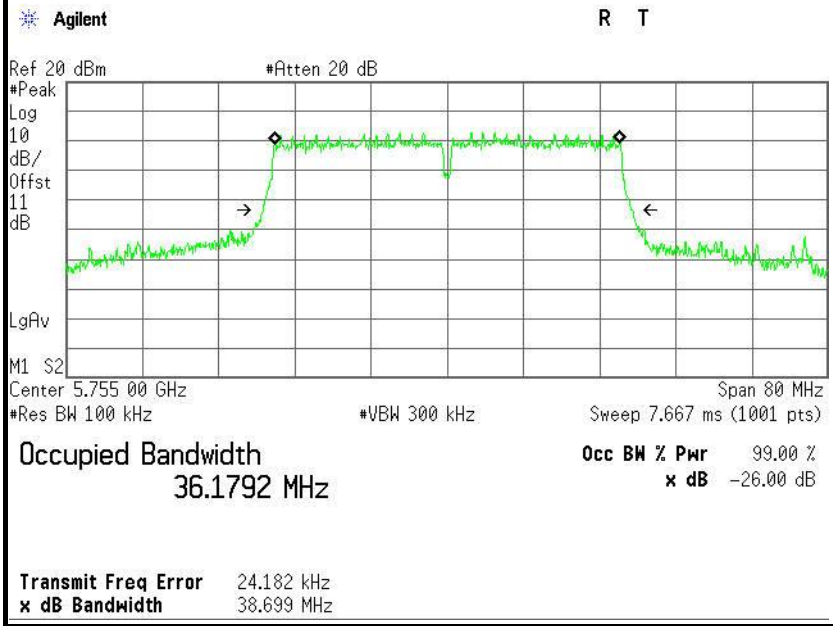


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

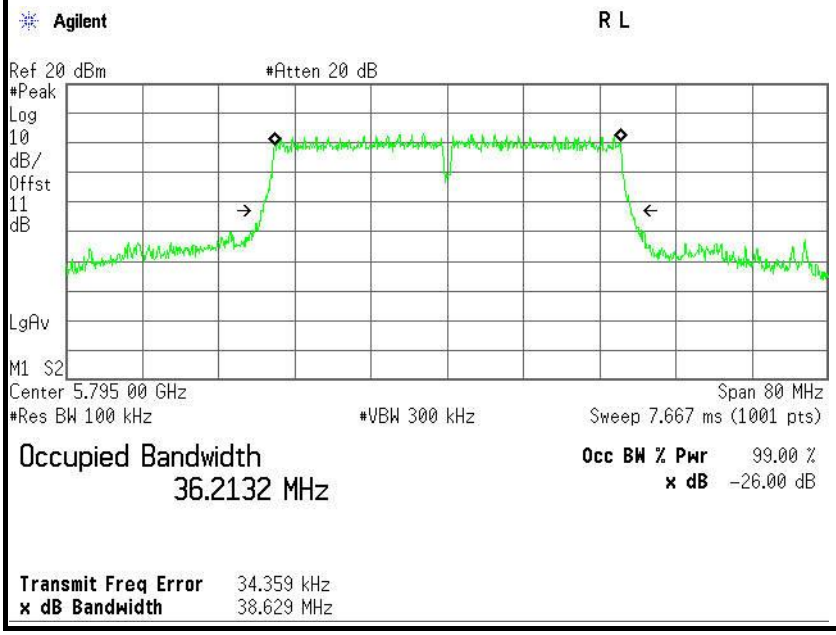
26dB Bandwidth (CH Low)

Antenna 0



26dB Bandwidth (CH High)

Antenna 0

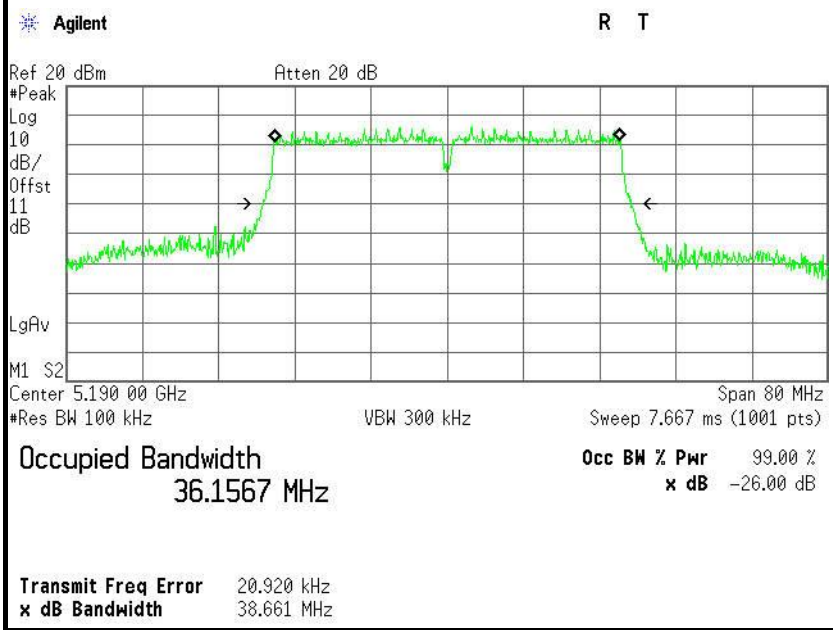


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

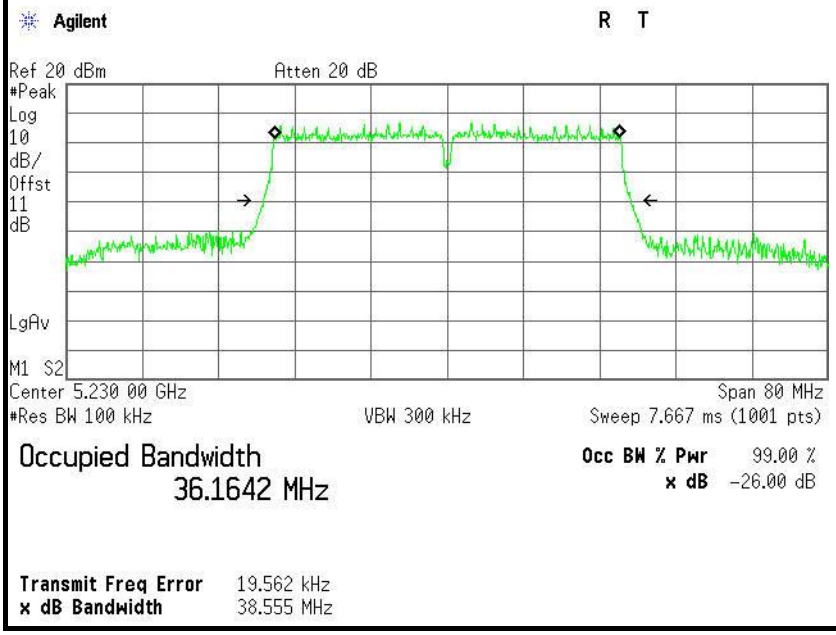
26dB Bandwidth (CH Low)

Antenna 1



26dB Bandwidth (CH High)

Antenna 1

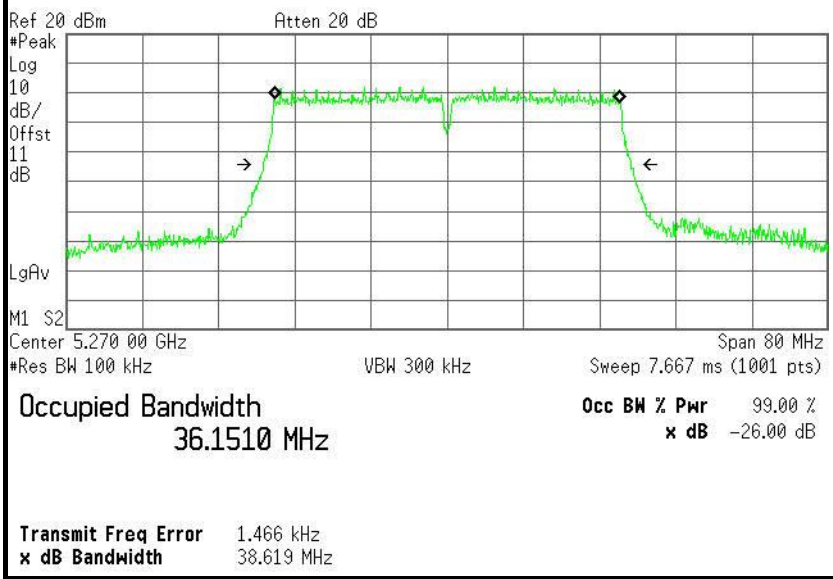


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

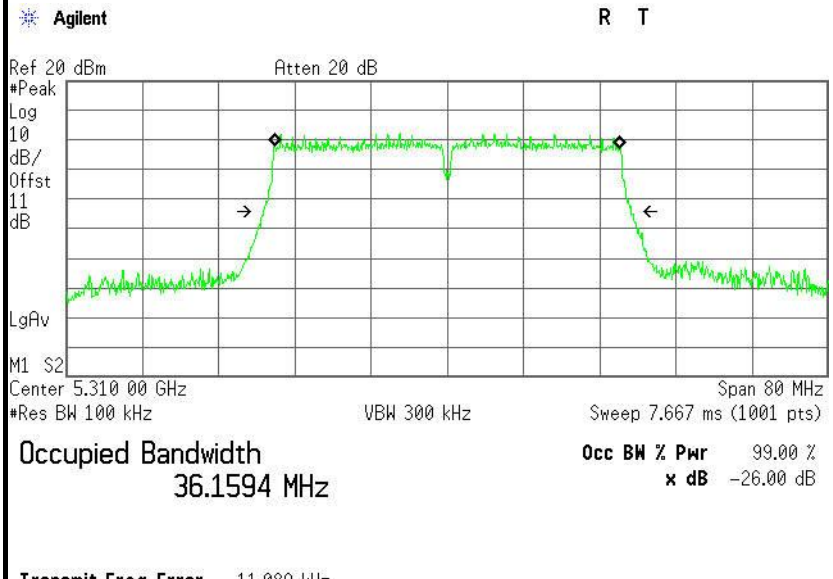
26dB Bandwidth (CH Low)

Antenna 1



26dB Bandwidth (CH High)

Antenna 1

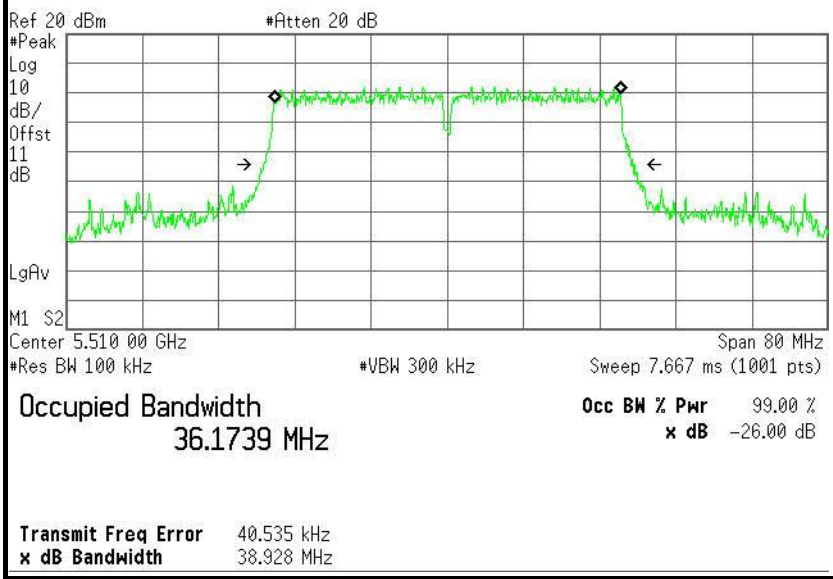


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

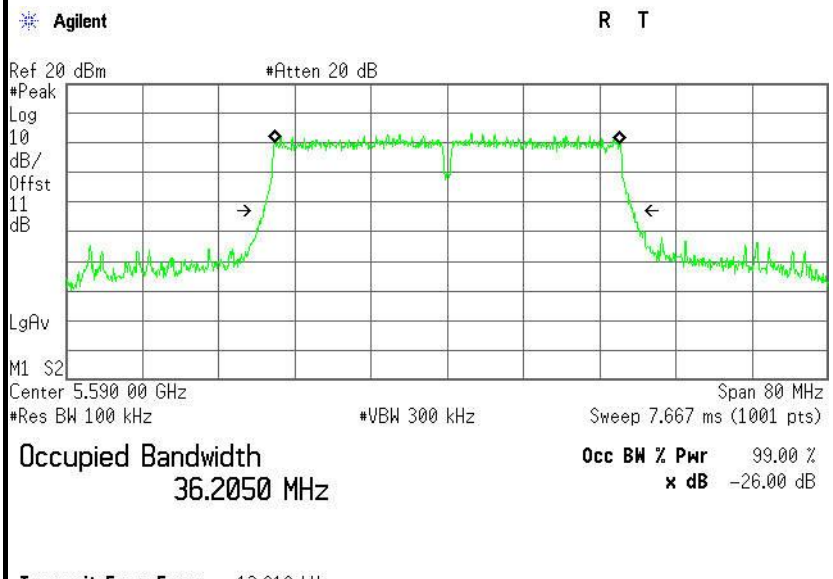
26dB Bandwidth (CH Low)

Antenna 1



26dB Bandwidth (CH Mid)

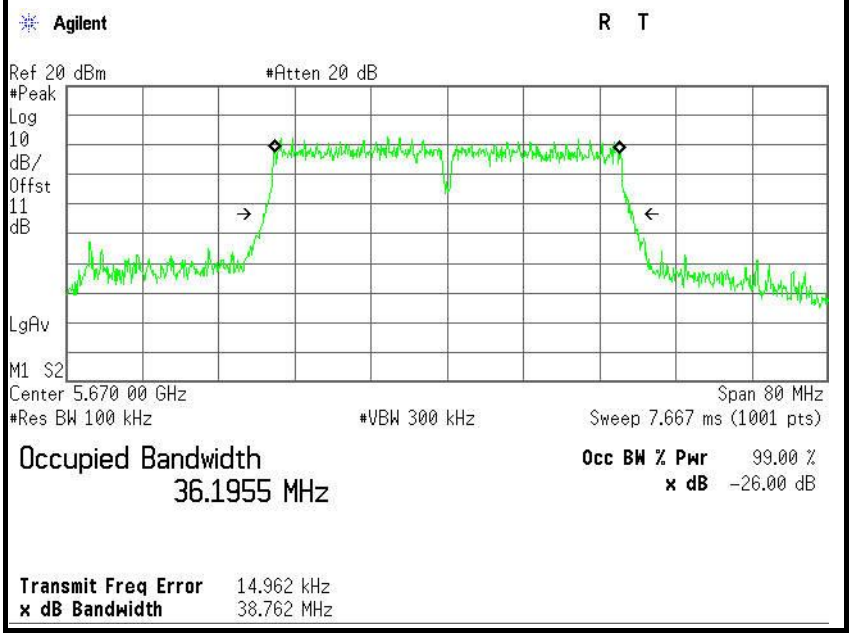
Antenna 1



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

26dB Bandwidth (CH High)

Antenna 1

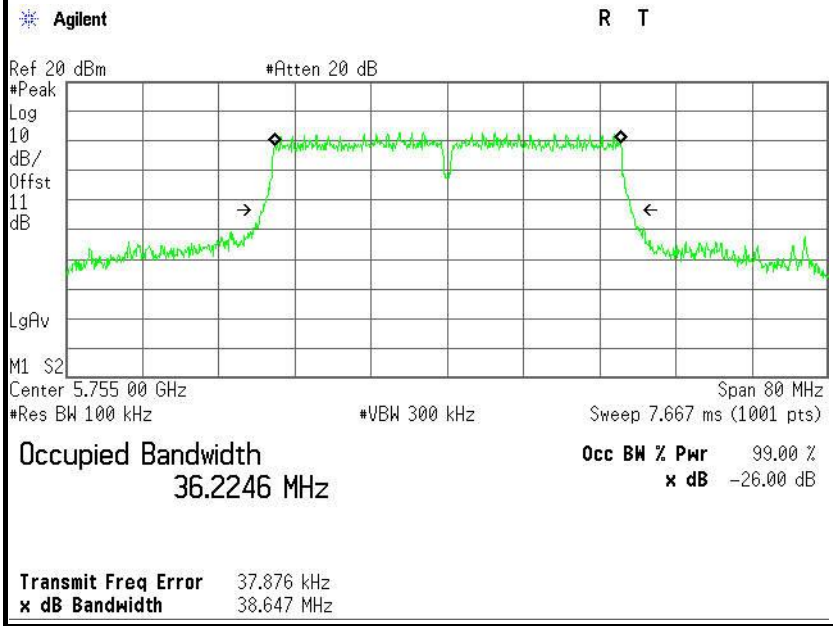


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

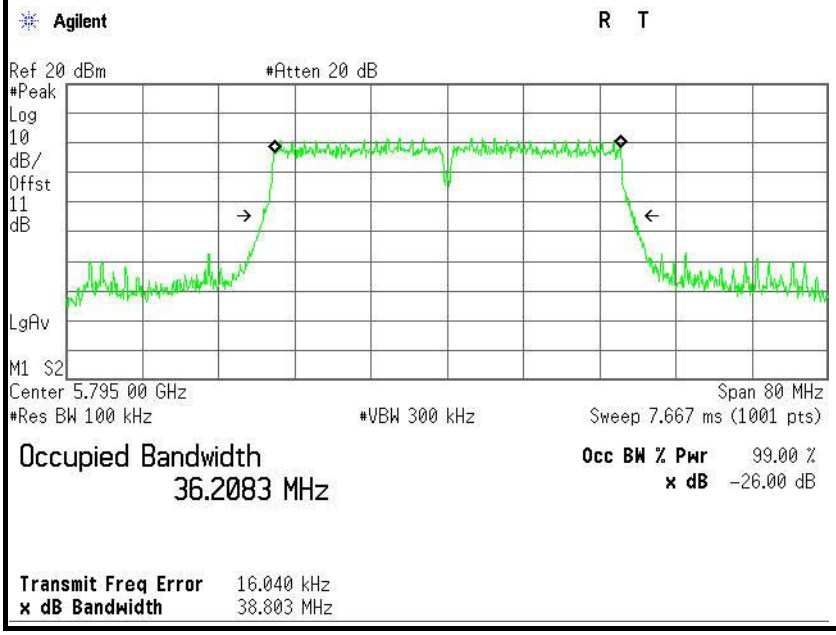
26dB Bandwidth (CH Low)

Antenna 0



26dB Bandwidth (CH High)

Antenna 0

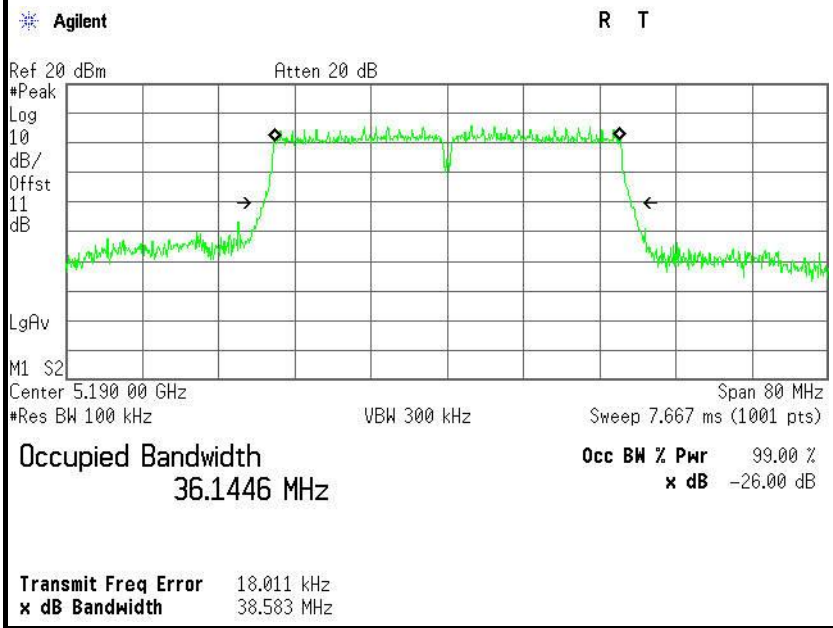


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

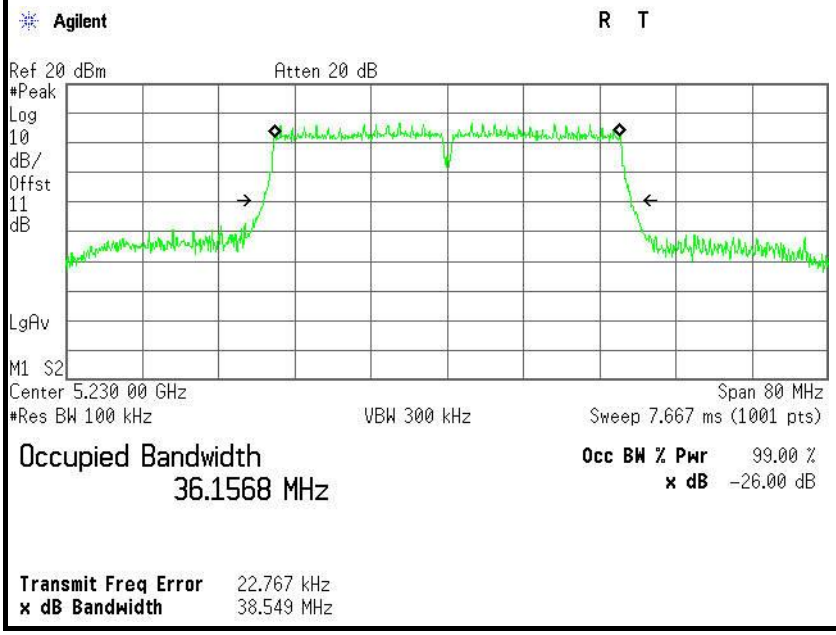
26dB Bandwidth (CH Low)

Antenna 2



26dB Bandwidth (CH High)

Antenna 2

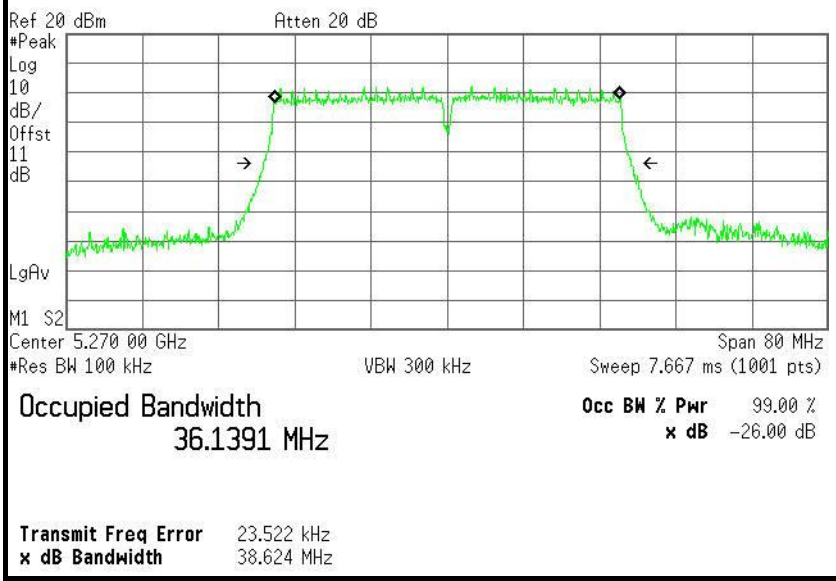


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

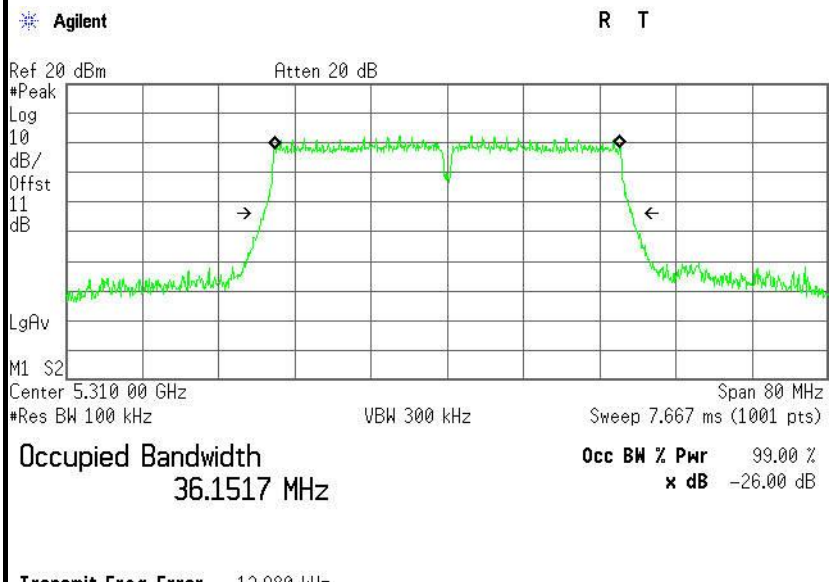
26dB Bandwidth (CH Low)

Antenna 2



26dB Bandwidth (CH High)

Antenna 2

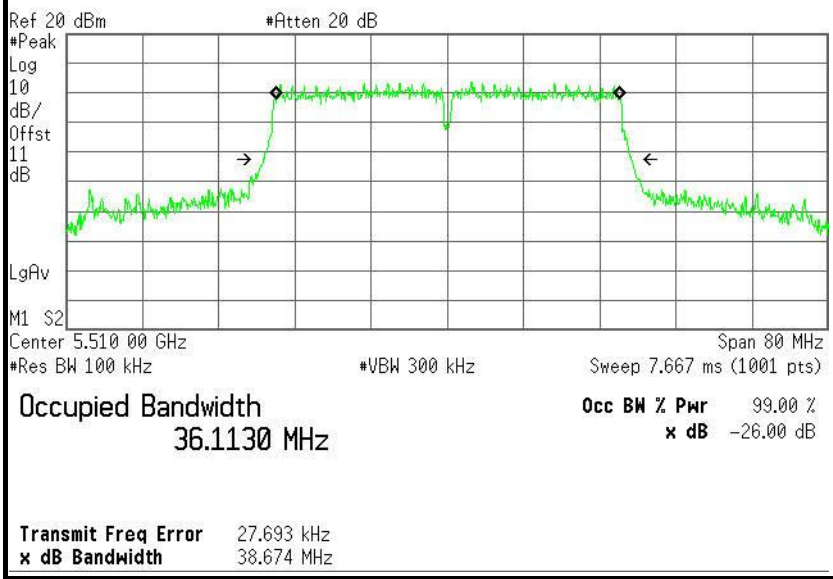


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

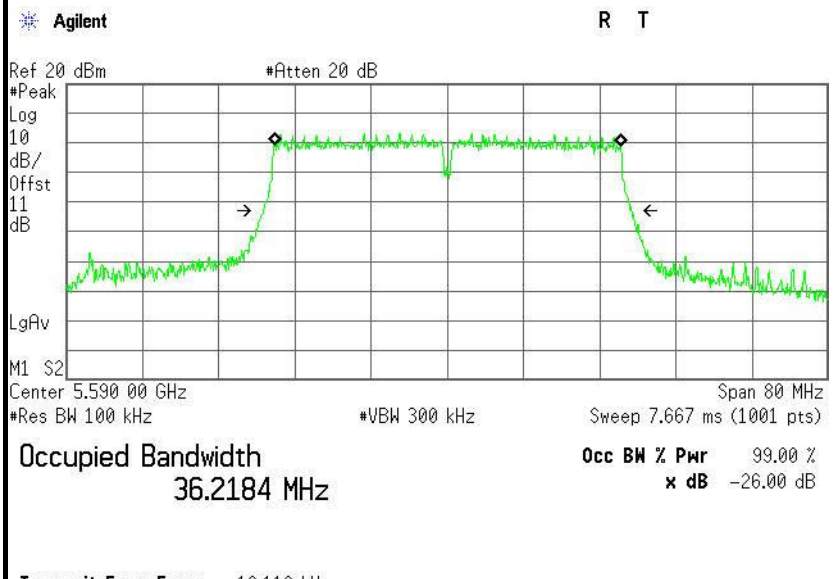
26dB Bandwidth (CH Low)

Antenna 2



26dB Bandwidth (CH Mid)

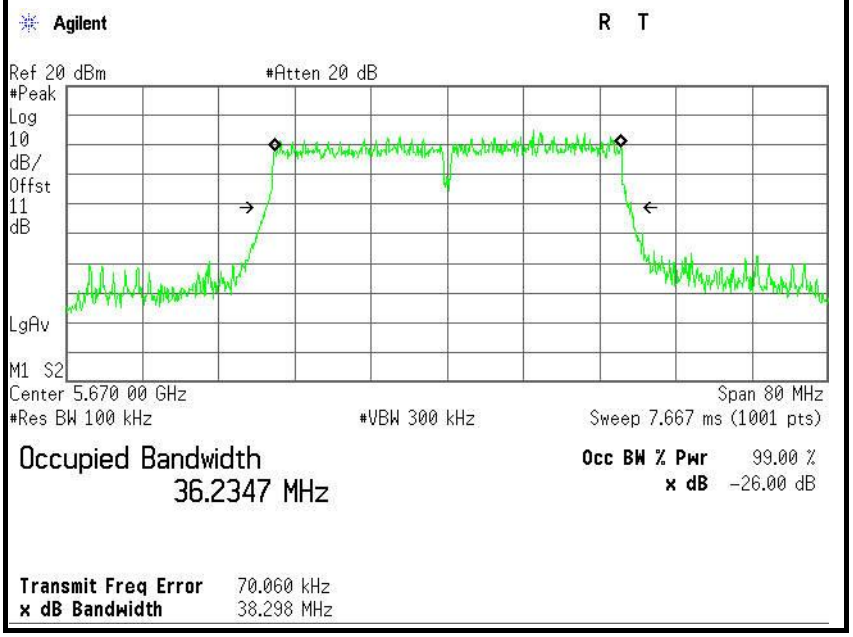
Antenna 2



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

26dB Bandwidth (CH High)

Antenna 2

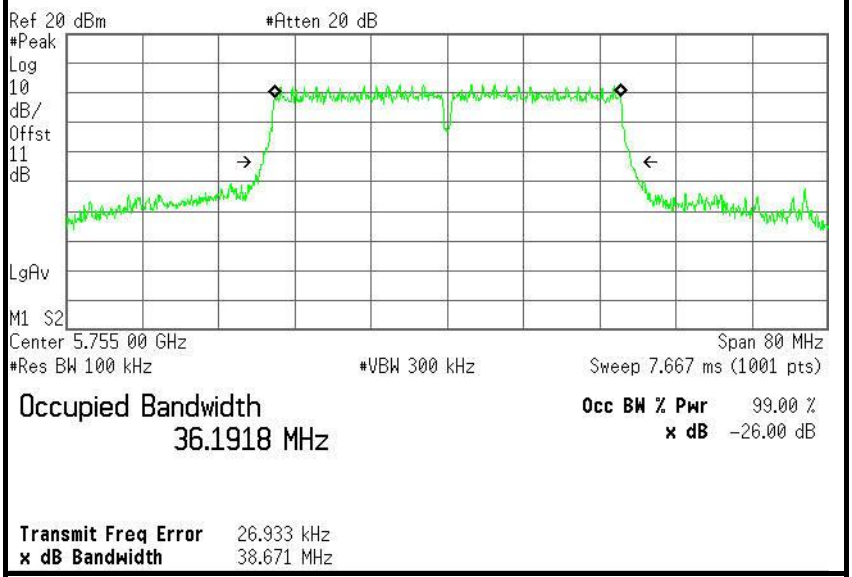


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

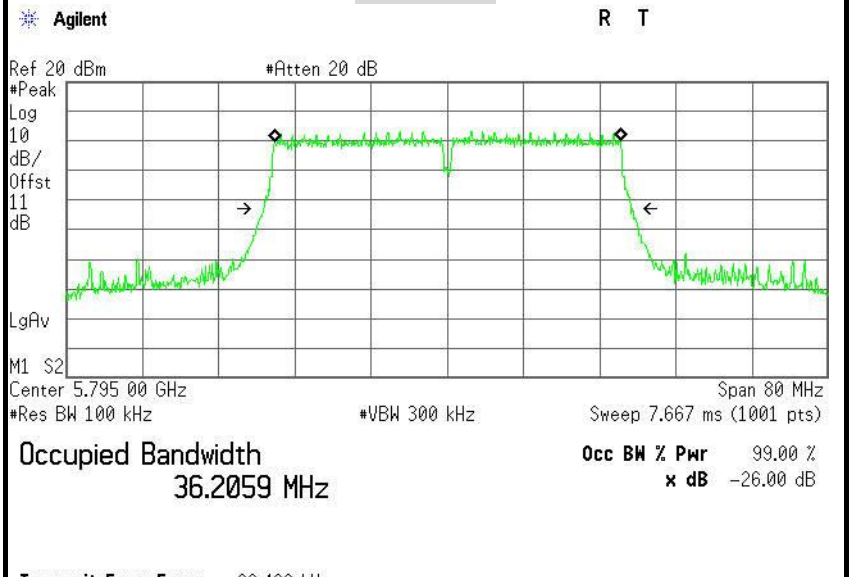
26dB Bandwidth (CH Low)

Antenna 2



26dB Bandwidth (CH High)

Antenna 2

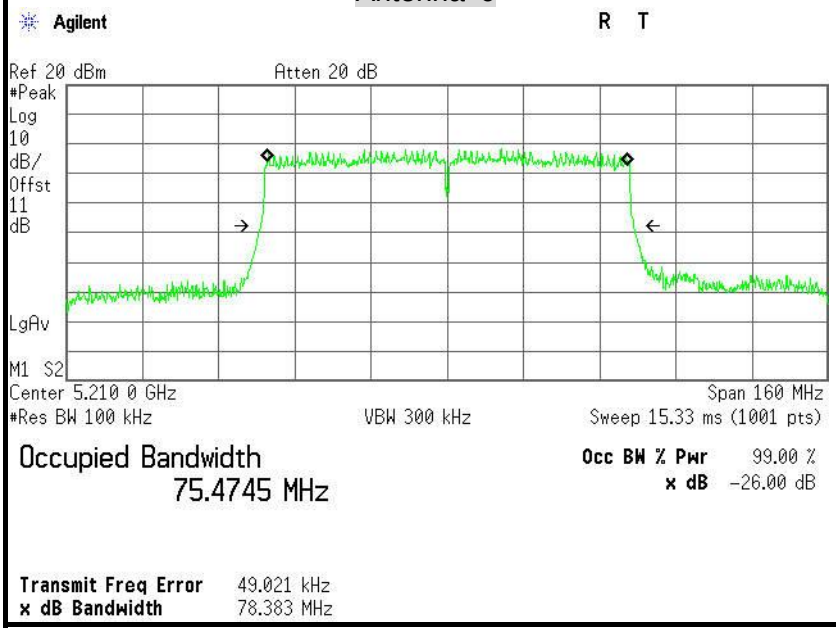


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11ac 80 mode / 5210MHz

26dB Bandwidth

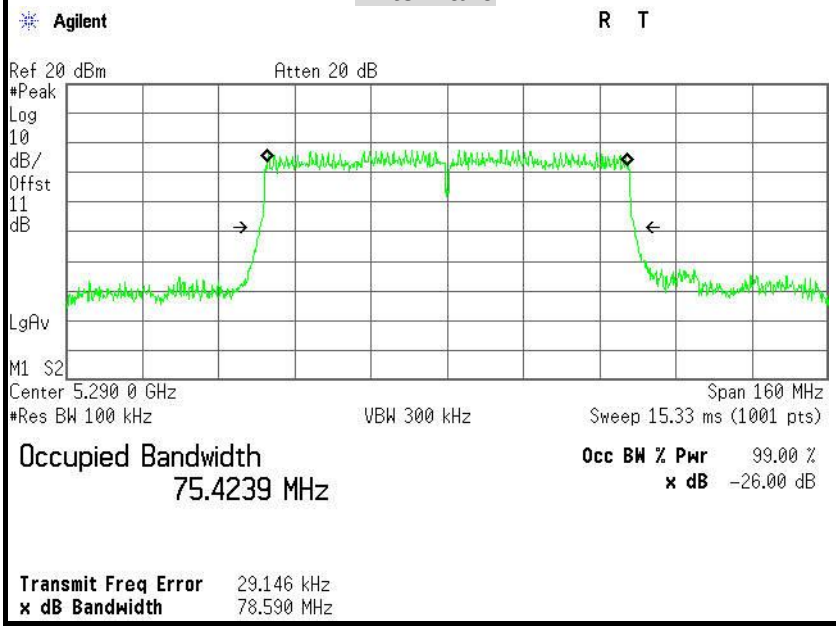
Antenna 0



IEEE 802.11ac 80 mode / 5290MHz

26dB Bandwidth

Antenna 0

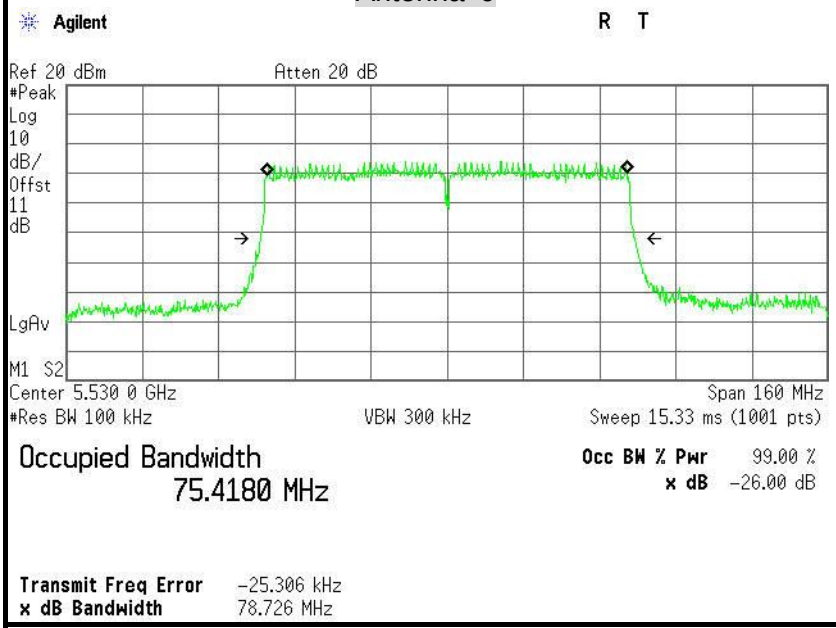


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11ac 80 mode / 5530MHz

26dB Bandwidth

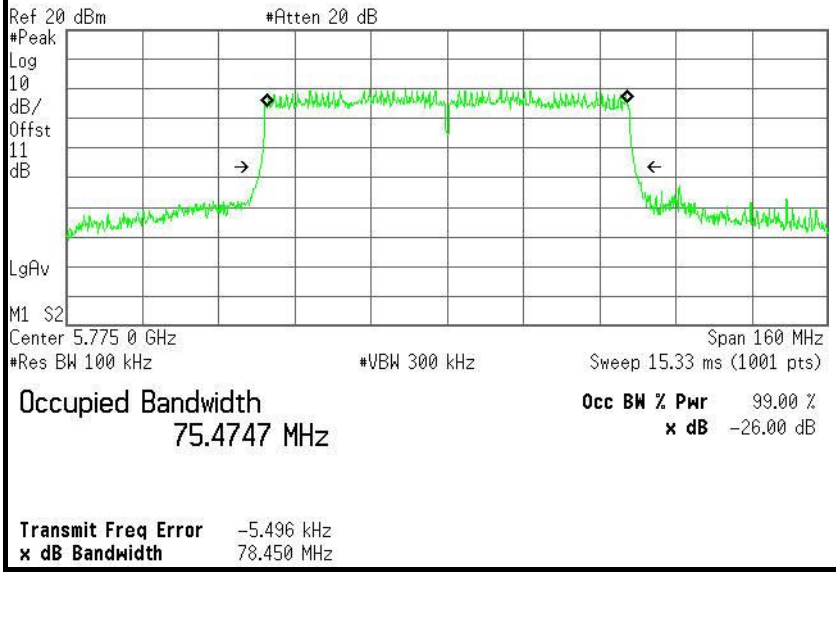
Antenna 0



IEEE 802.11ac 80 mode / 5775MHz

26dB Bandwidth

Antenna 0

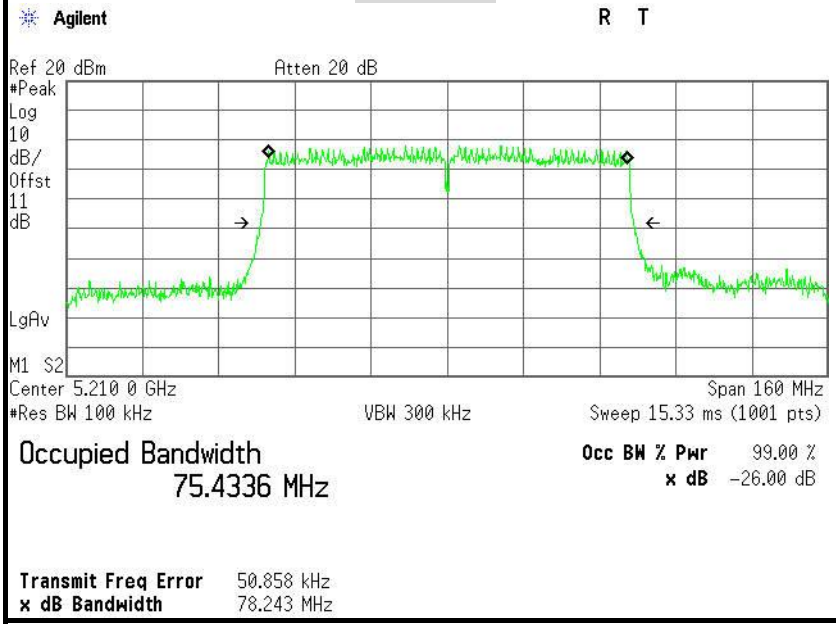


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11ac 80 mode / 5210MHz

26dB Bandwidth

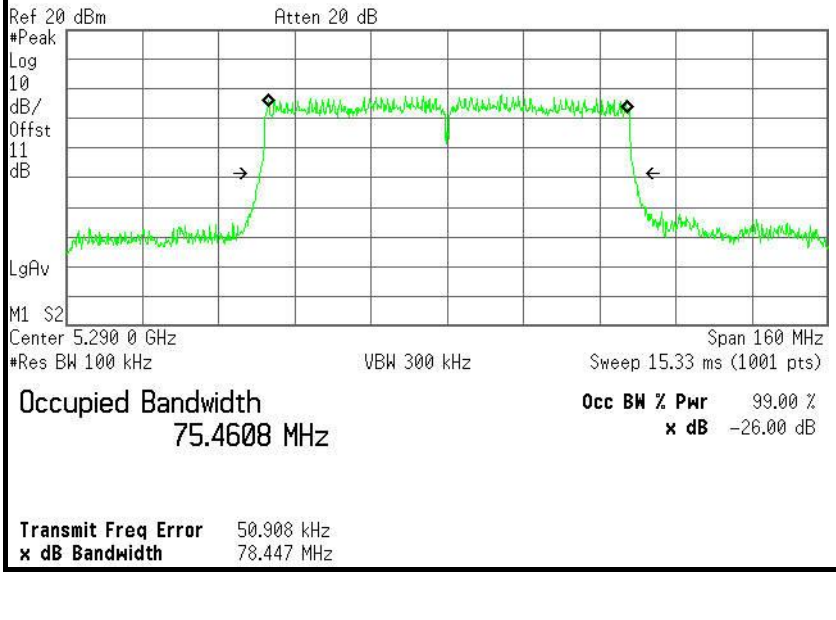
Antenna 1



IEEE 802.11ac 80 mode / 5290MHz

26dB Bandwidth

Antenna 1

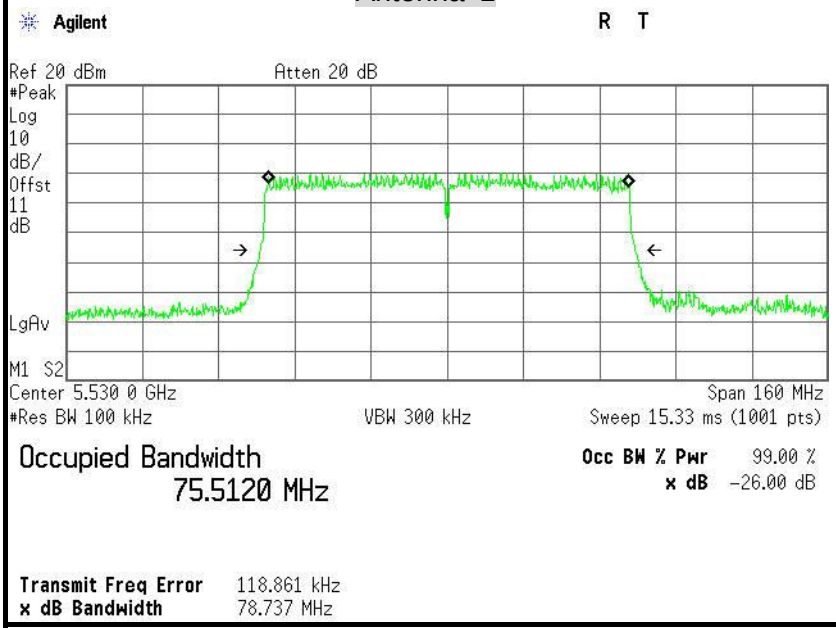


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11ac 80 mode / 5530MHz

26dB Bandwidth

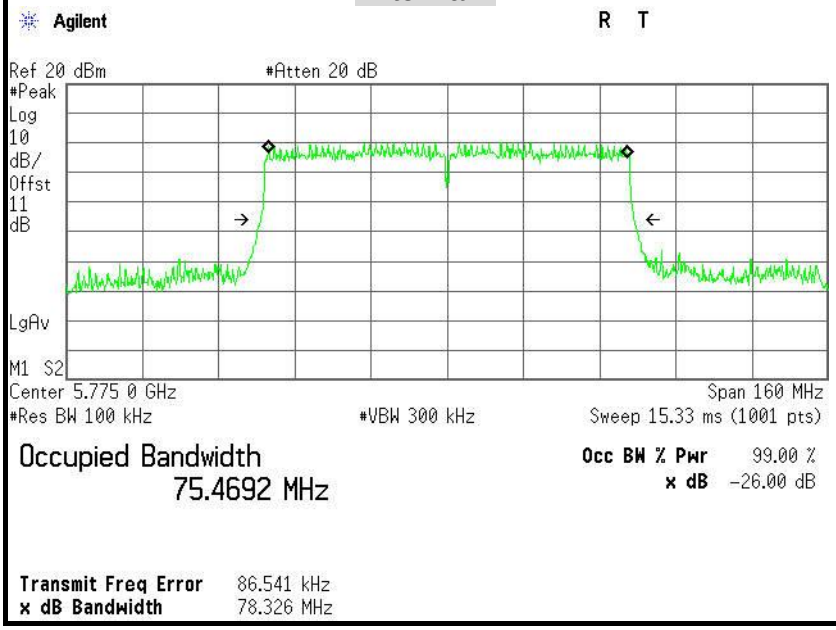
Antenna 1



IEEE 802.11ac 80 mode / 5775MHz

26dB Bandwidth

Antenna 1

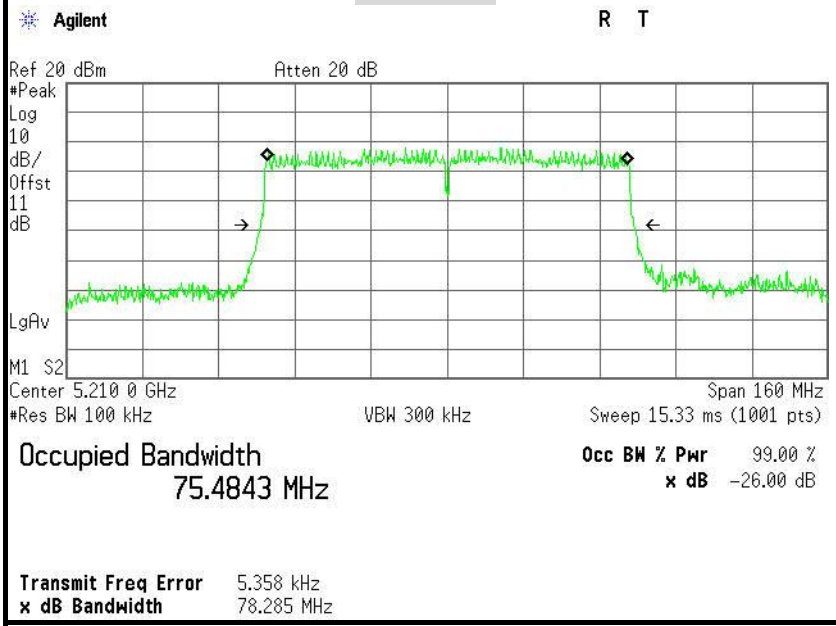


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11ac 80 mode / 5210MHz

26dB Bandwidth

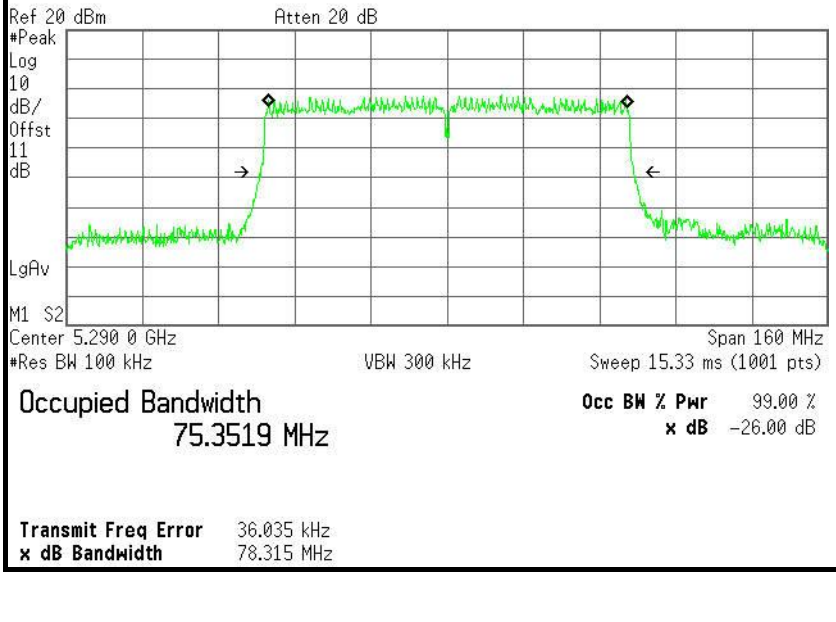
Antenna 2



IEEE 802.11ac 80 mode / 5290MHz

26dB Bandwidth

Antenna 2

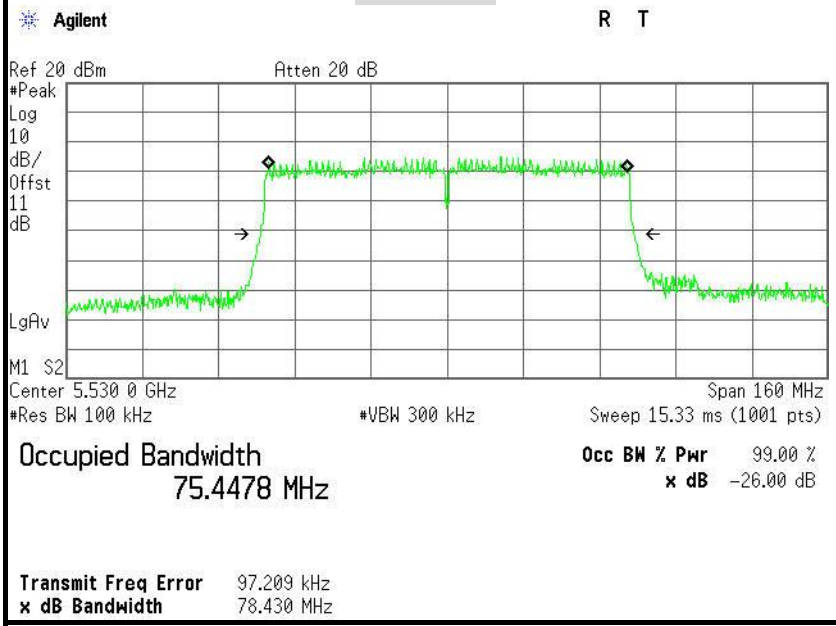


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11ac 80 mode / 5530MHz

26dB Bandwidth

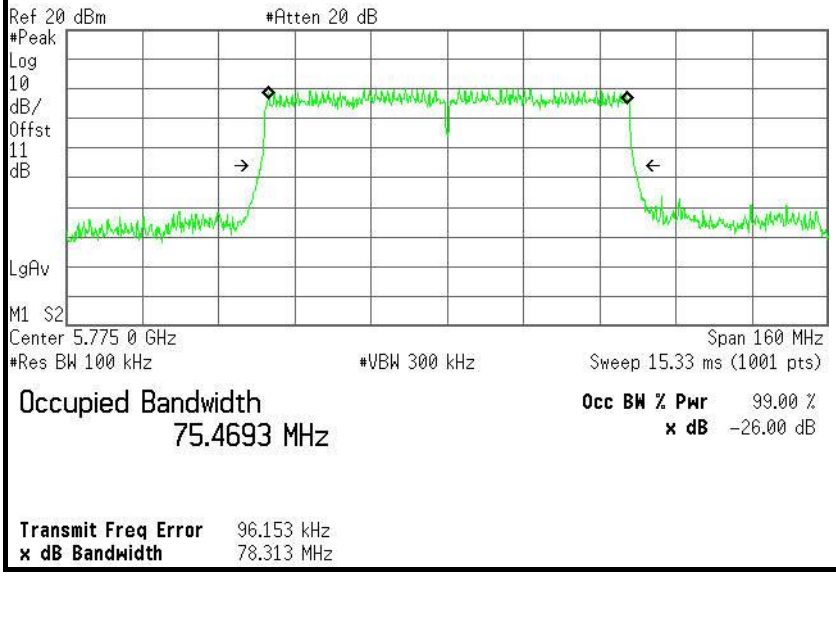
Antenna 2



IEEE 802.11ac 80 mode / 5775MHz

26dB Bandwidth

Antenna 2



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.2 6dB BANDWIDTH MEASUREMENT

6.2.1 LIMITS

According to §15.407(e), Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

6.2.2 TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	E4446A	US44300399	02/21/2016	02/20/2017	10/24/2015

6.2.3 TEST PROCEDURES (please refer to measurement standard)

8.1 Option 1:

a) Set RBW = 100 kHz.

b) Set the video bandwidth (VBW) ≥ 3 x RBW.

c) Detector = Peak.

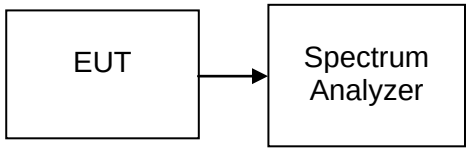
d) Trace mode = max hold.

e) Sweep = auto couple.

f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.2.4 TEST SETUP



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6.2.5 TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11a mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	Bandwidth(B) (MHz)			Limit (kHz)	Test Result
		Antenna 0	Antenna 1	Antenna 2		
Low	5745	16.413	16.496	16.434	>500	PASS
Mid	5785	16.451	16.439	16.531		PASS
High	5825	16.436	16.507	16.375		PASS

Test mode: IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	Bandwidth(B) (MHz)			Limit (kHz)	Test Result
		Antenna 0	Antenna 1	Antenna 2		
Low	5745	17.686	17.703	17.737	>500	PASS
Mid	5785	17.671	17.788	17.714		PASS
High	5825	17.601	17.386	17.724		PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

Channel	Frequency (MHz)	Bandwidth(B) (MHz)			Limit (kHz)	Test Result
		Antenna 0	Antenna 1	Antenna 2		
Low	5755	36.526	36.541	36.530	>500	PASS
High	5795	36.463	36.475	36.440		PASS

Test mode: IEEE 802.11ac 80 mode / 5775MHz

Channel	Frequency (MHz)	Bandwidth(B) (MHz)			Limit (kHz)	Test Result
		Antenna 0	Antenna 1	Antenna 2		
	5775	75.923	76.564	76.194	>500	PASS

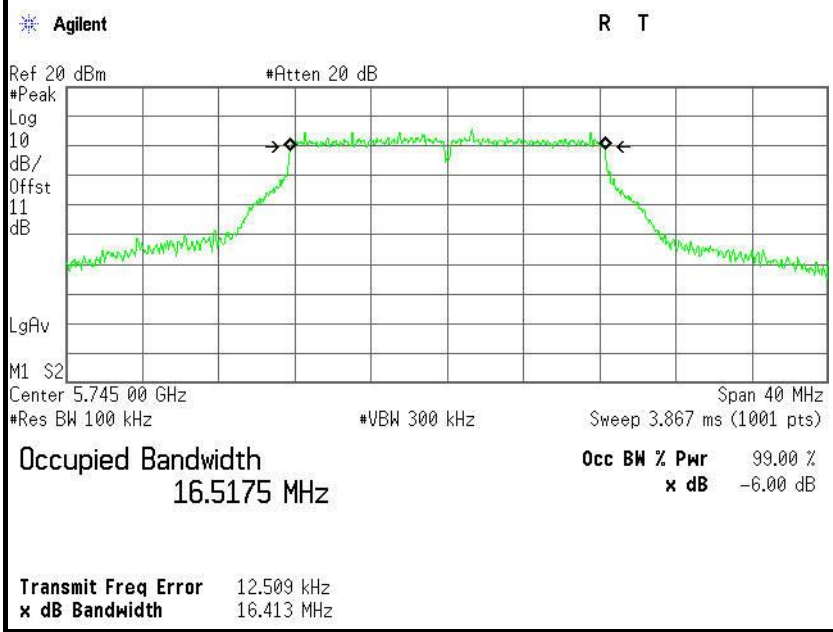
This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

Test Plot

IEEE 802.11a mode / 5745 ~ 5825MHz

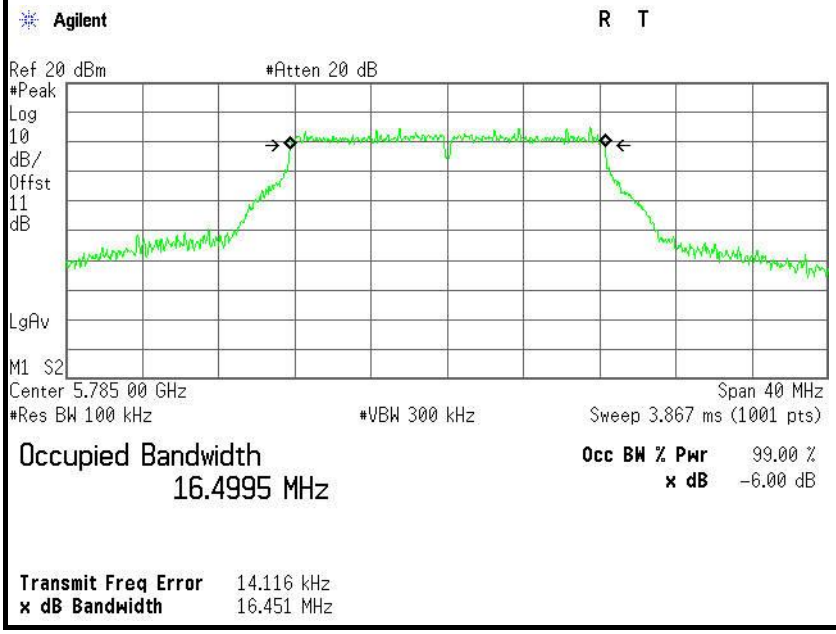
6dB Bandwidth (CH Low)

Antenna 0



6dB Bandwidth (CH Mid)

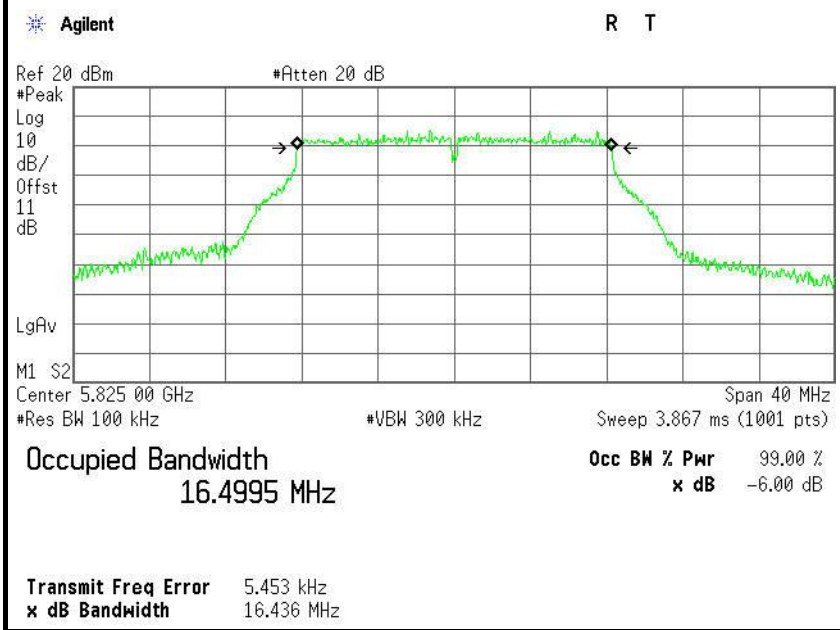
Antenna 0



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6dB Bandwidth (CH High)

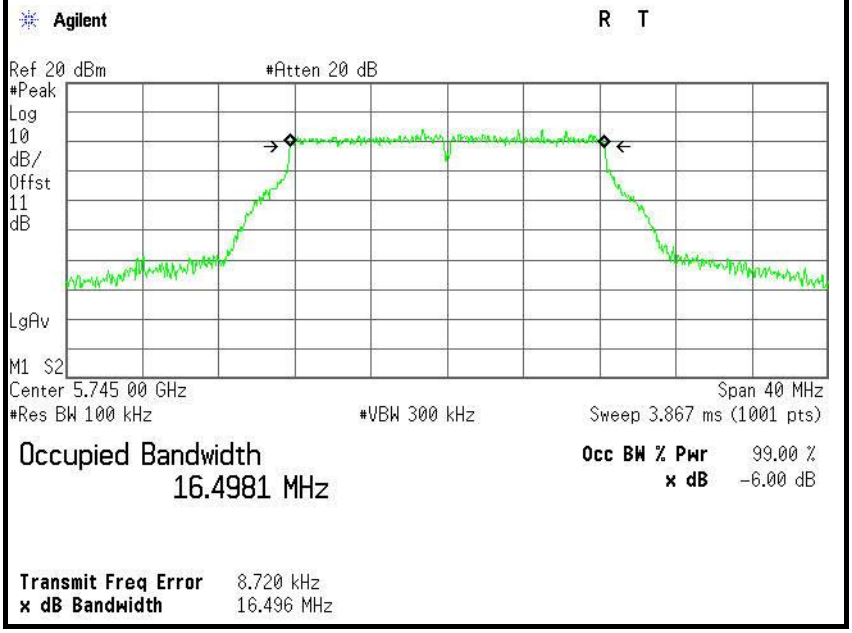
Antenna 0



IEEE 802.11a mode / 5745 ~ 5825MHz

6dB Bandwidth (CH Low)

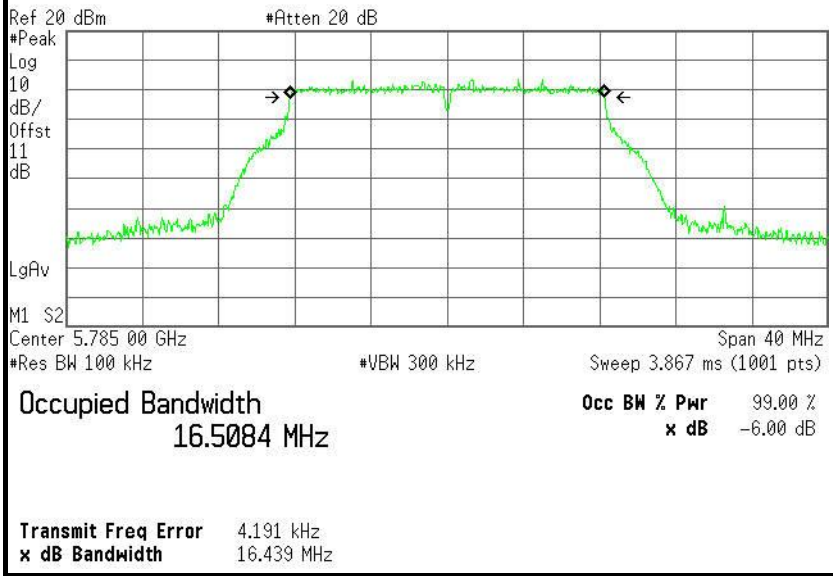
Antenna 1



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

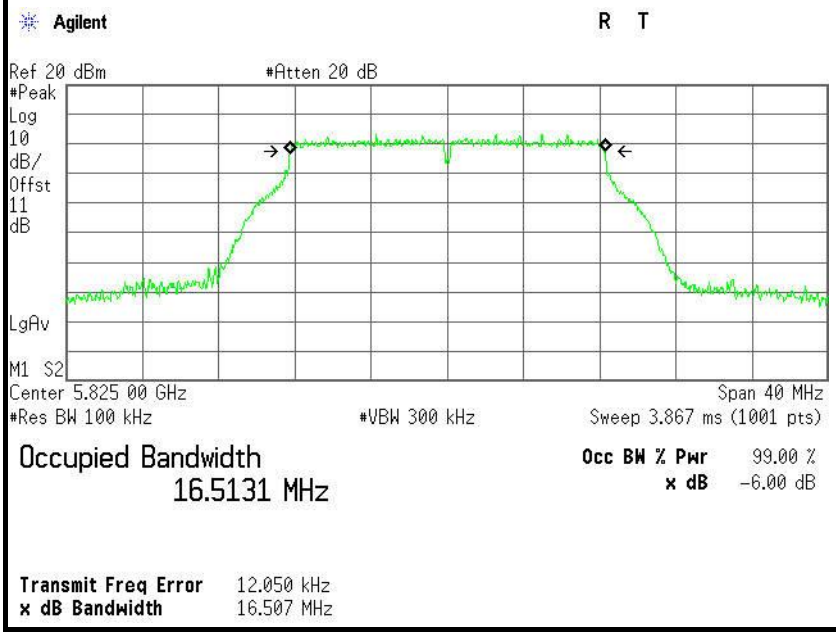
6dB Bandwidth (CH Mid)

Antenna 1



6dB Bandwidth (CH High)

Antenna 1

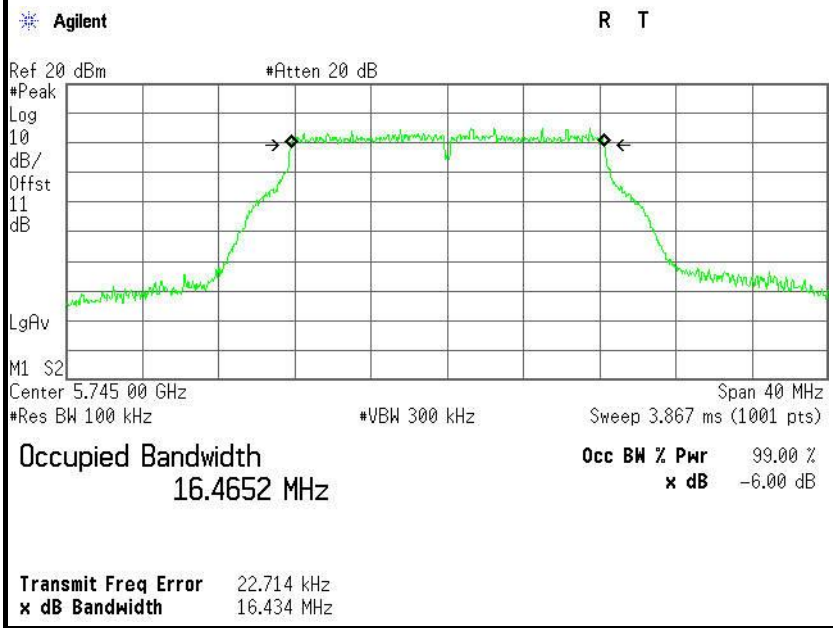


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11a mode / 5745 ~ 5825MHz

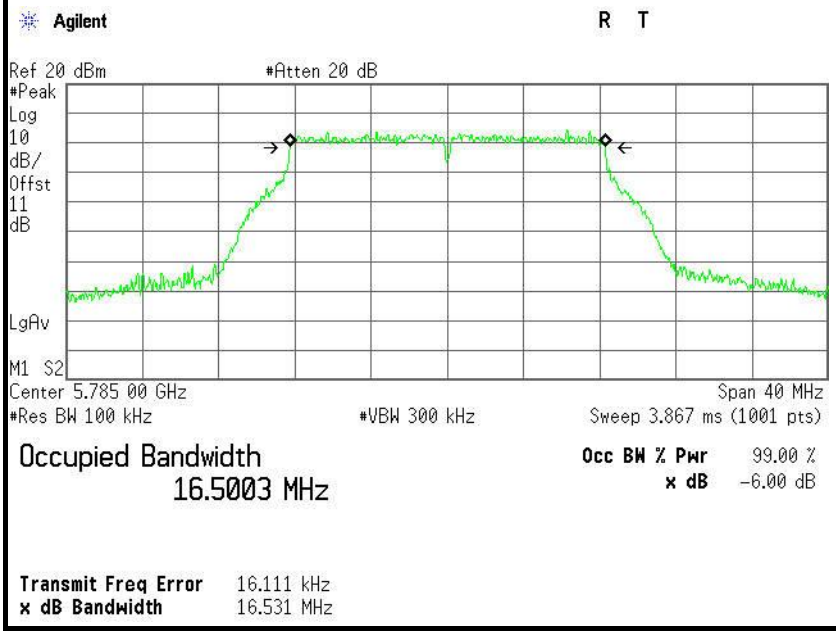
6dB Bandwidth (CH Low)

Antenna 2



6dB Bandwidth (CH Mid)

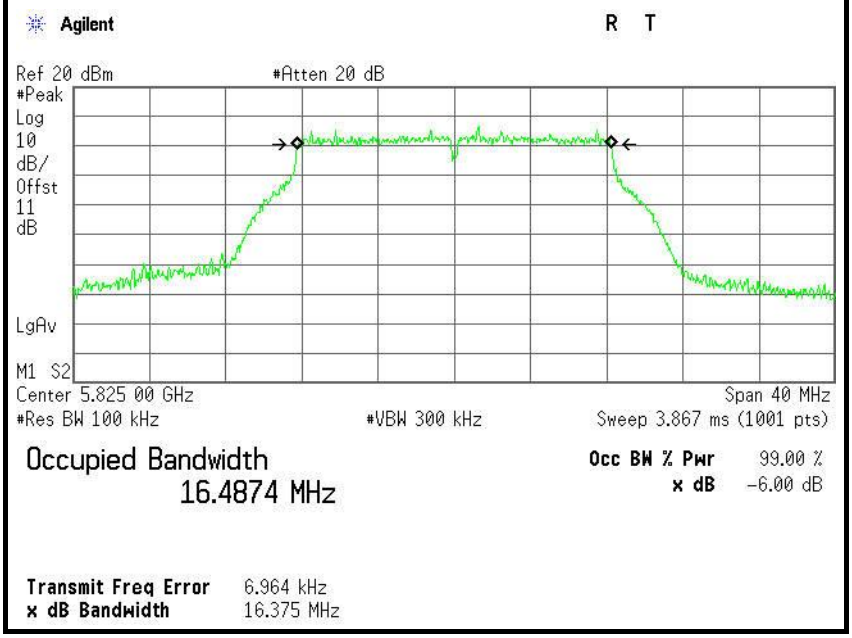
Antenna 2



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

6dB Bandwidth (CH High)

Antenna 2

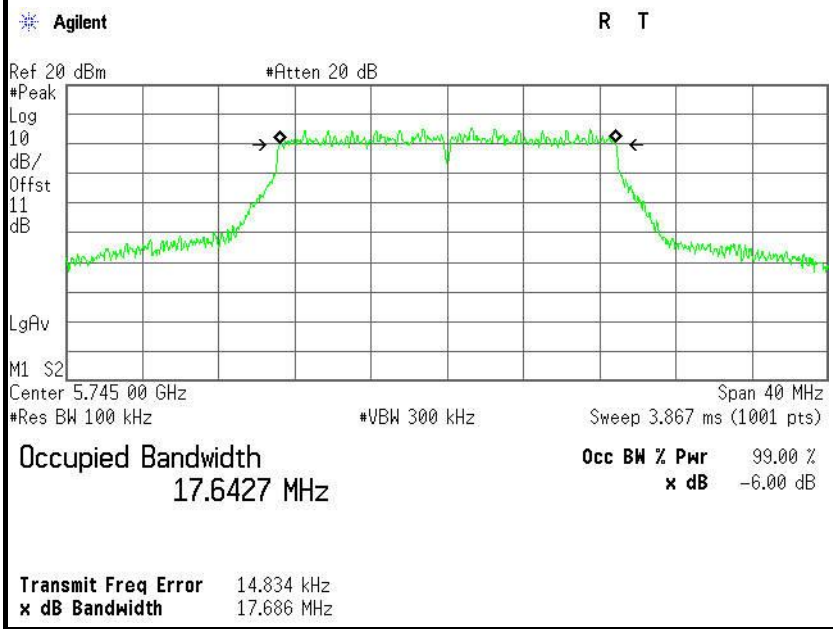


This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

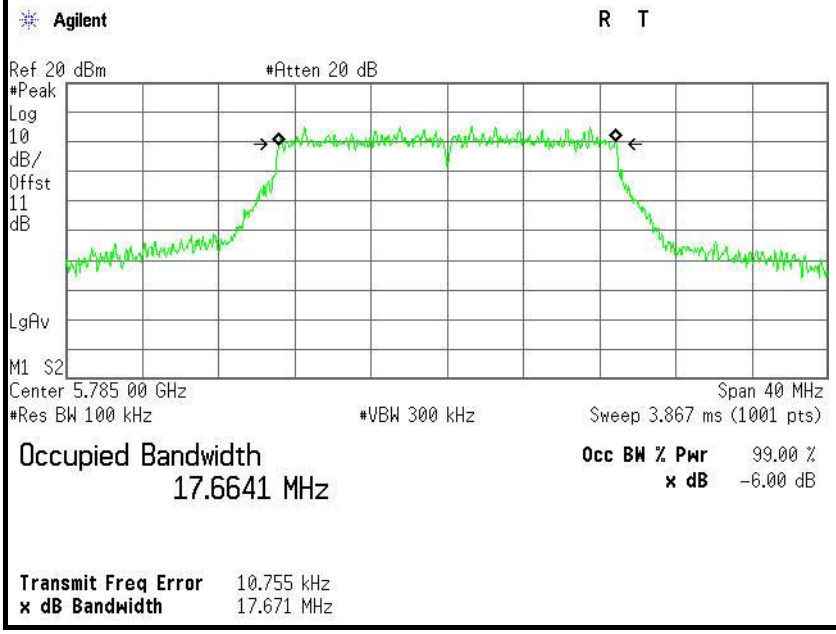
6dB Bandwidth (CH Low)

Antenna 0



6dB Bandwidth (CH Mid)

Antenna 0



This report shall not be reproduced except in full, without the written approval of Compliance Certification Services.