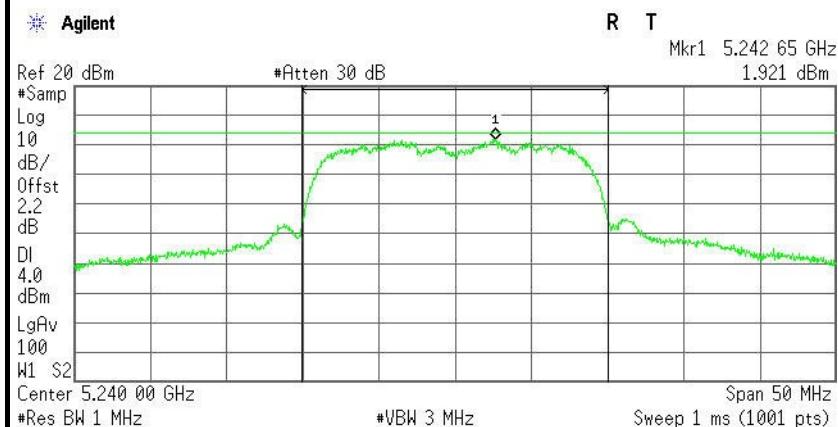
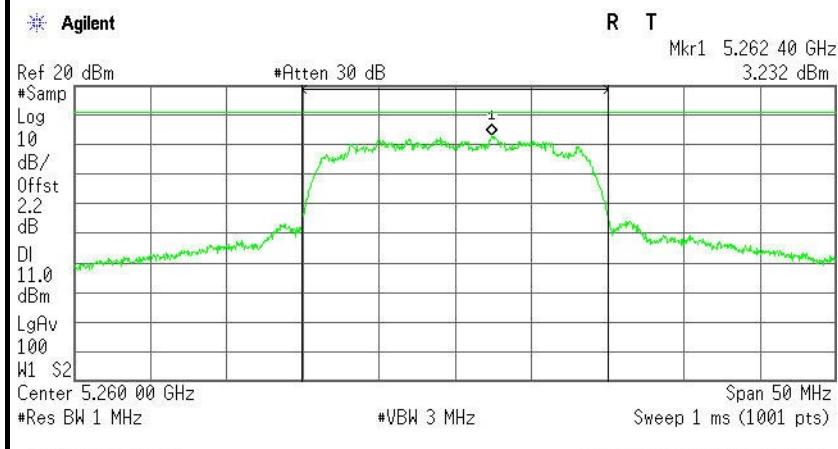
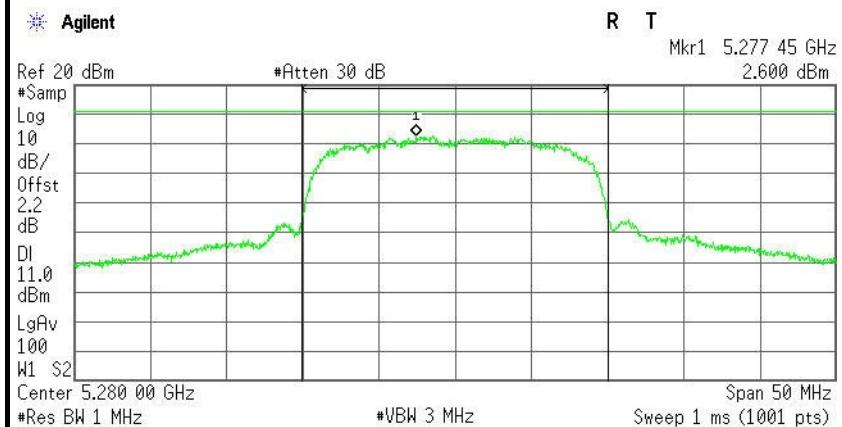


**PPSD (CH High)****Antenna 1****IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz****PPSD (CH Low)****Antenna 1**



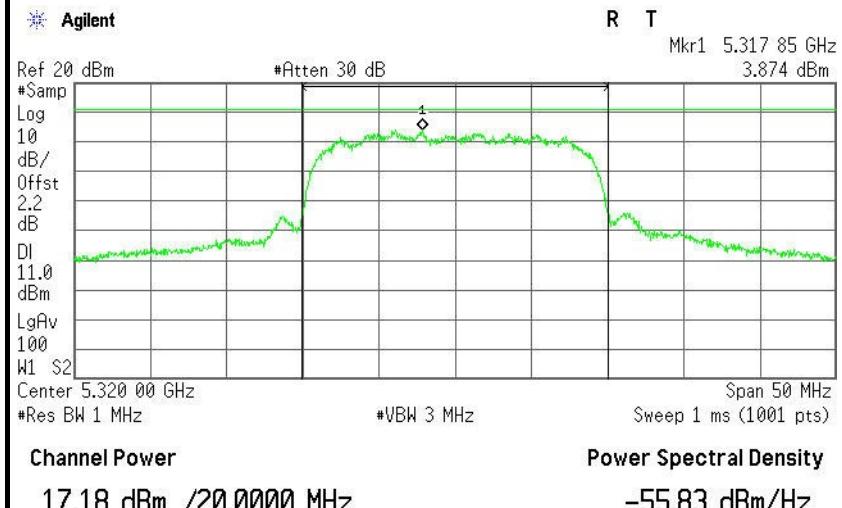
PPSD (CH Mid)

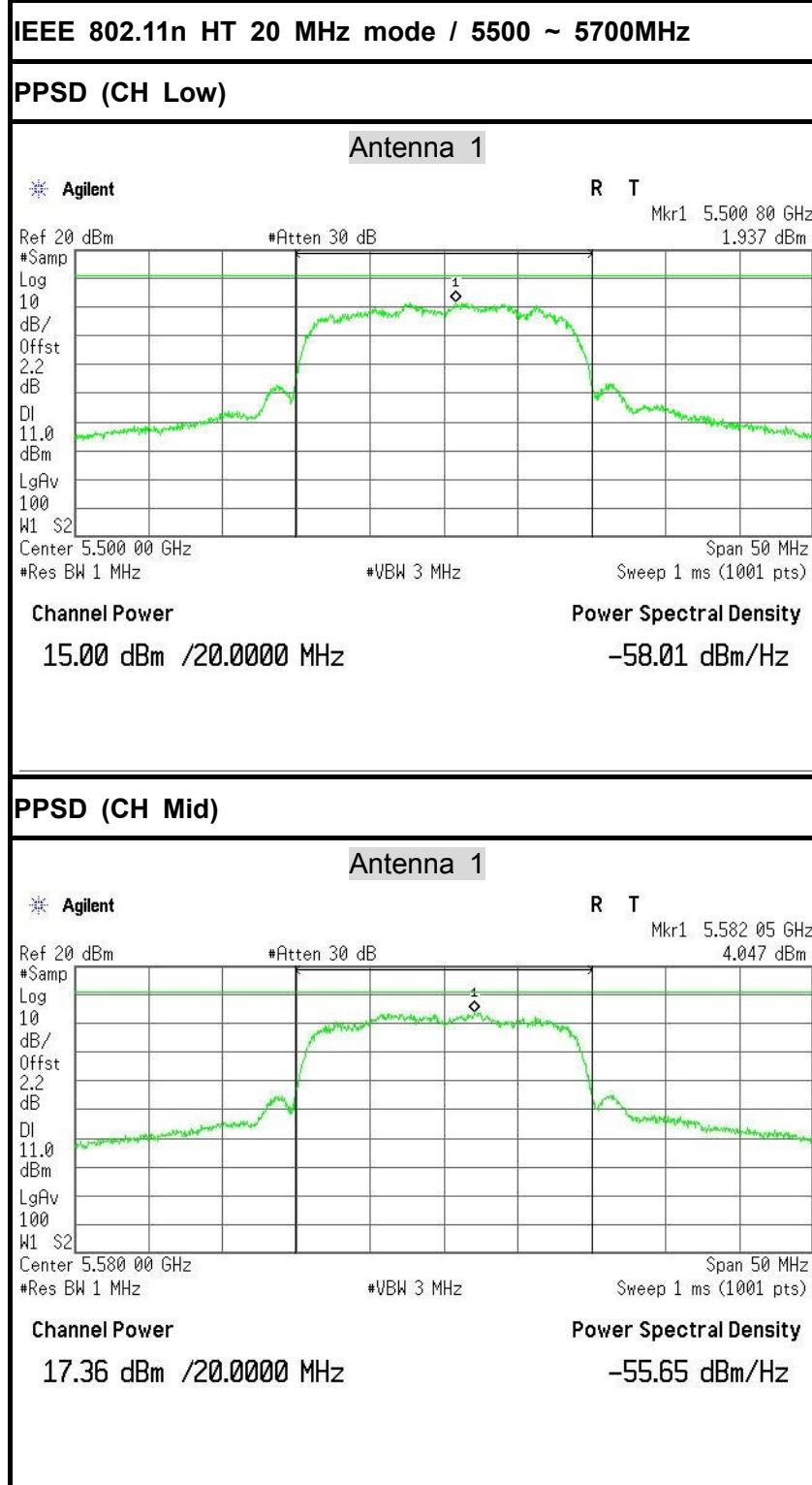
Antenna 1



PPSD (CH High)

Antenna 1

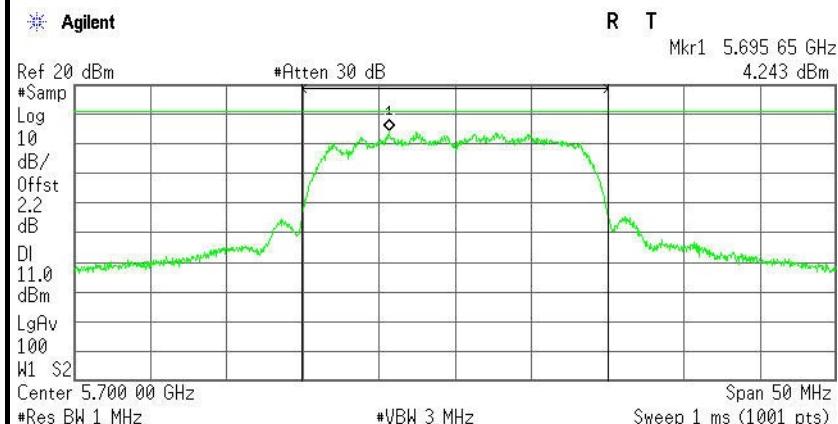






PPSD (CH High)

Antenna 1



Channel Power

17.07 dBm /20.0000 MHz

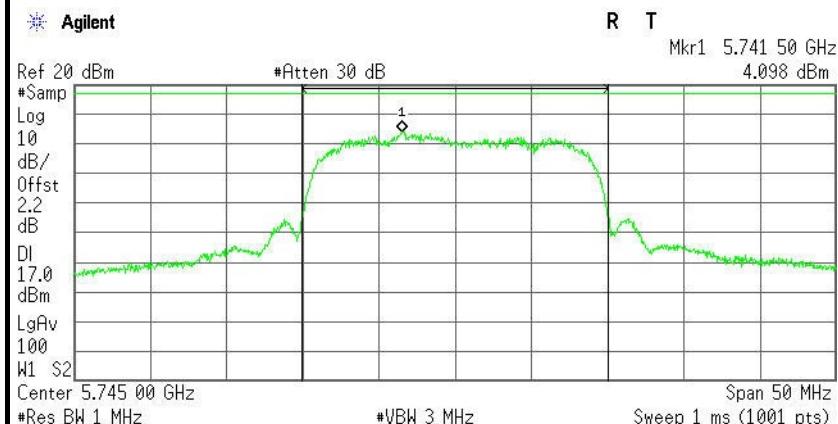
Power Spectral Density

-55.94 dBm/Hz

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5805MHz

PPSD (CH Low)

Antenna 1

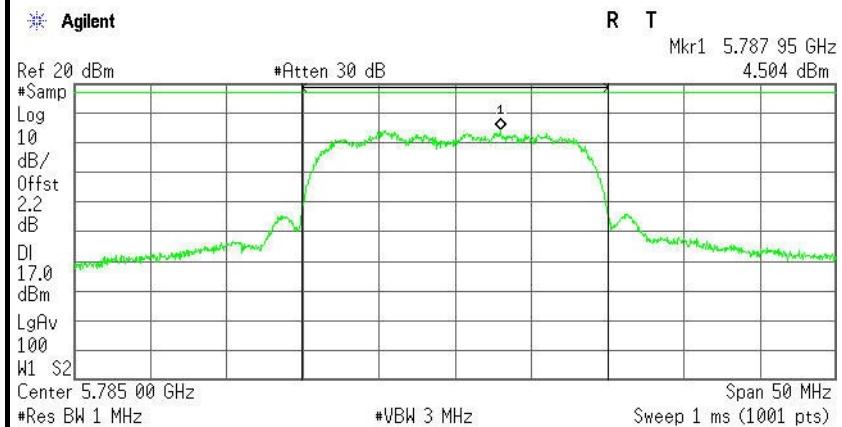
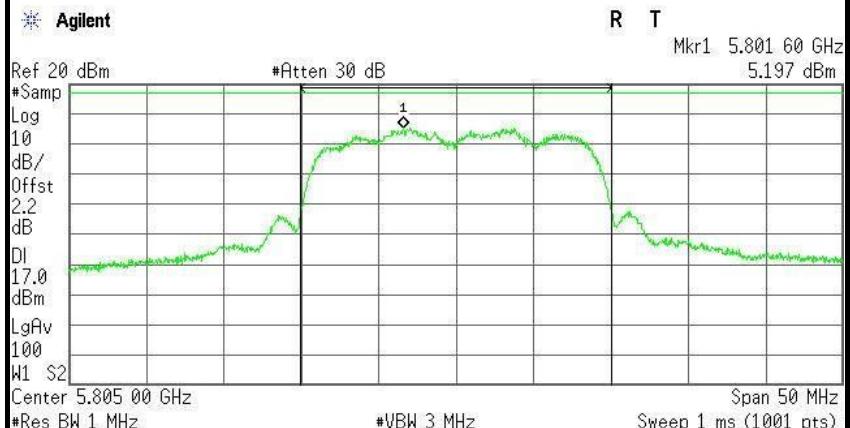


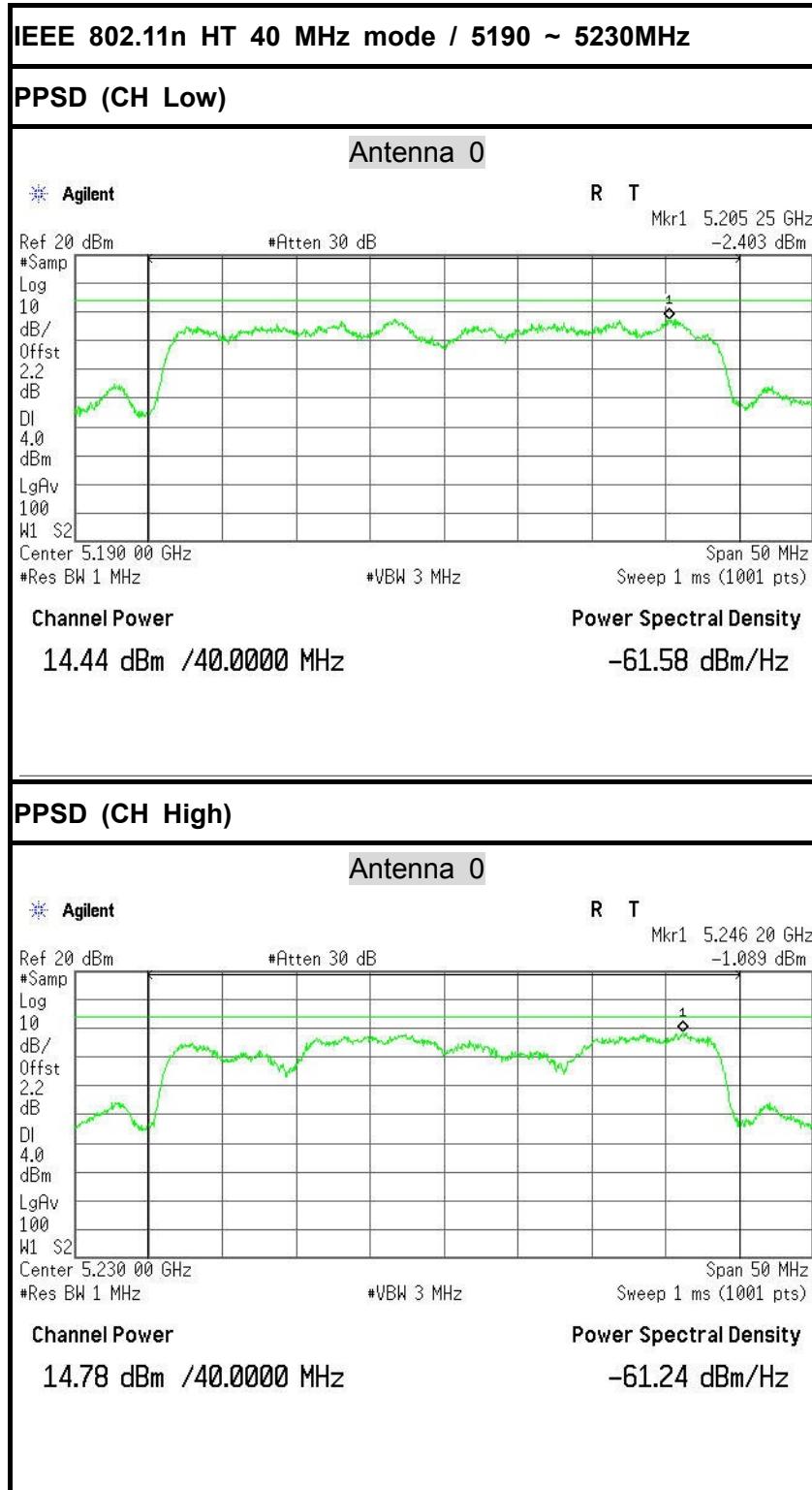
Channel Power

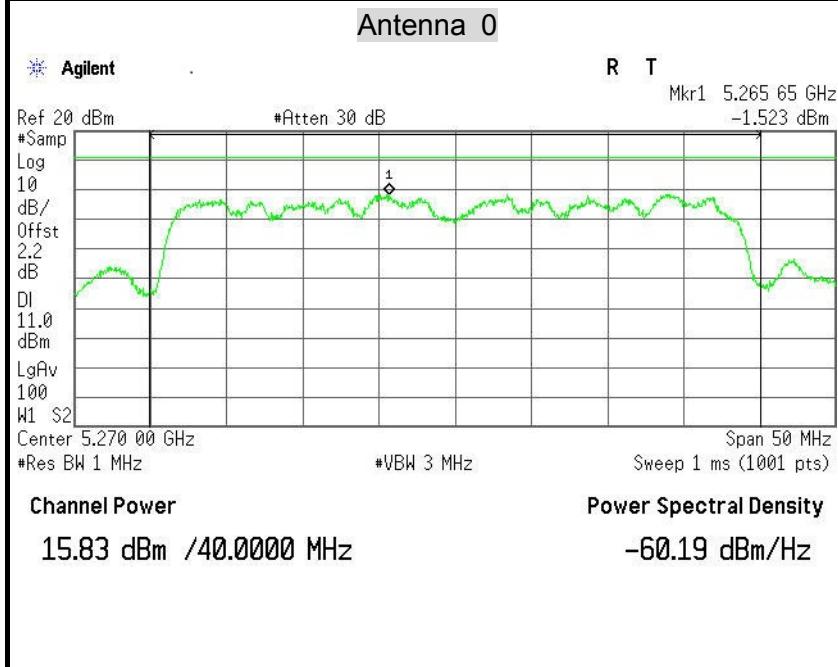
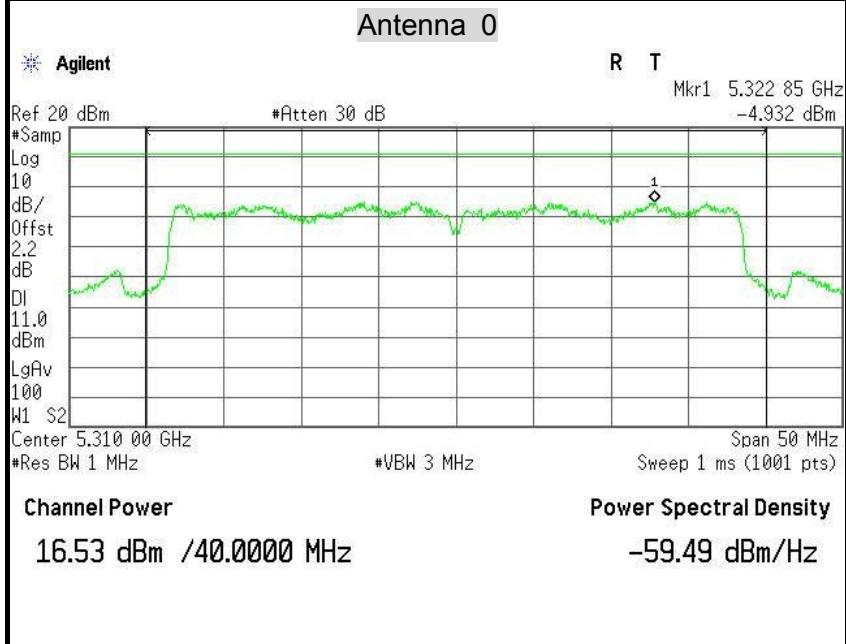
16.62 dBm /20.0000 MHz

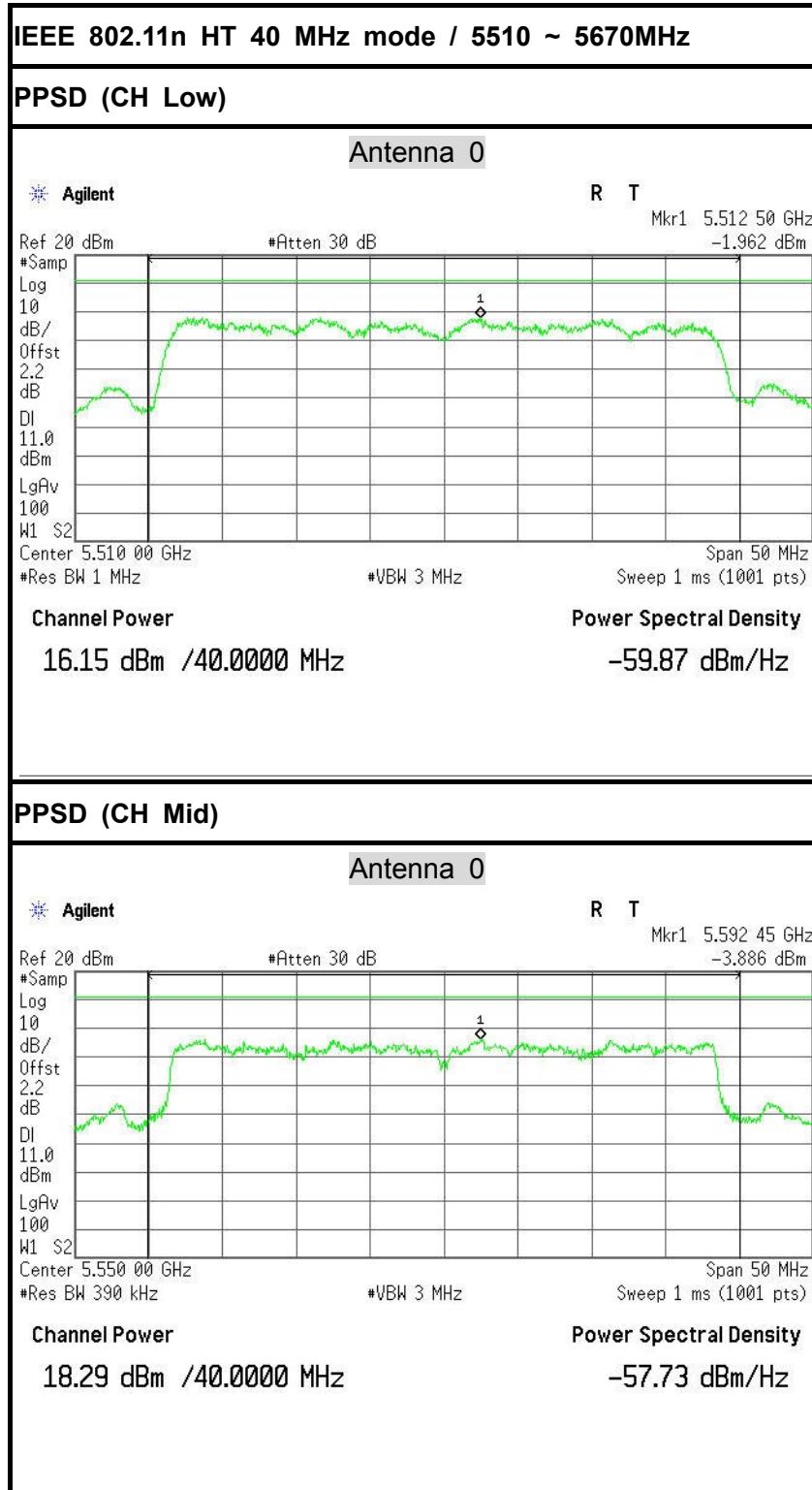
Power Spectral Density

-56.39 dBm/Hz

**PPSD (CH Mid)****Antenna 1****PPSD (CH High)****Antenna 1**



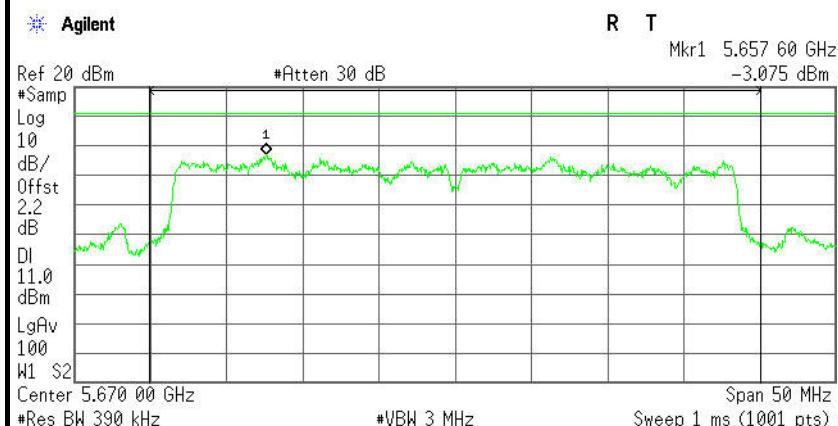
**IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz****PPSD (CH Low)****PPSD (CH High)**





PPSD (CH High)

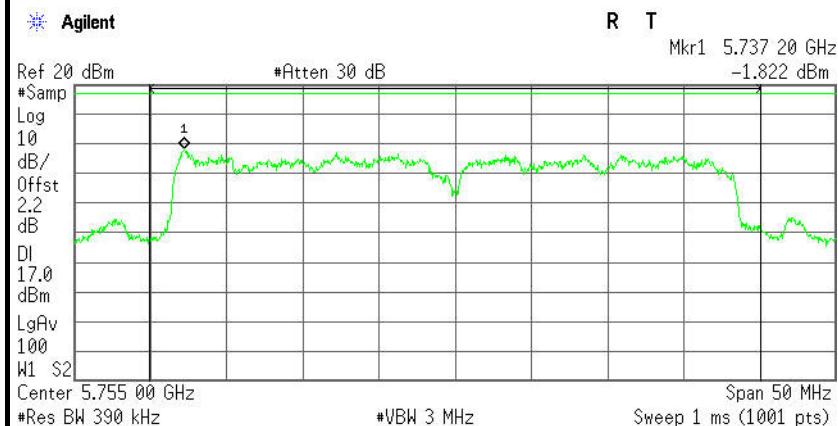
Antenna 0

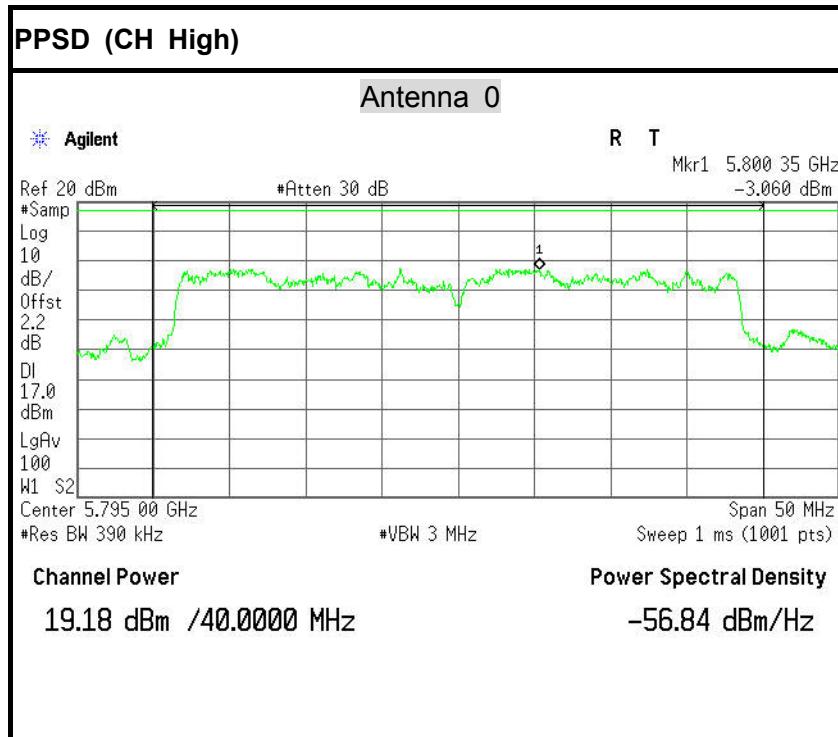


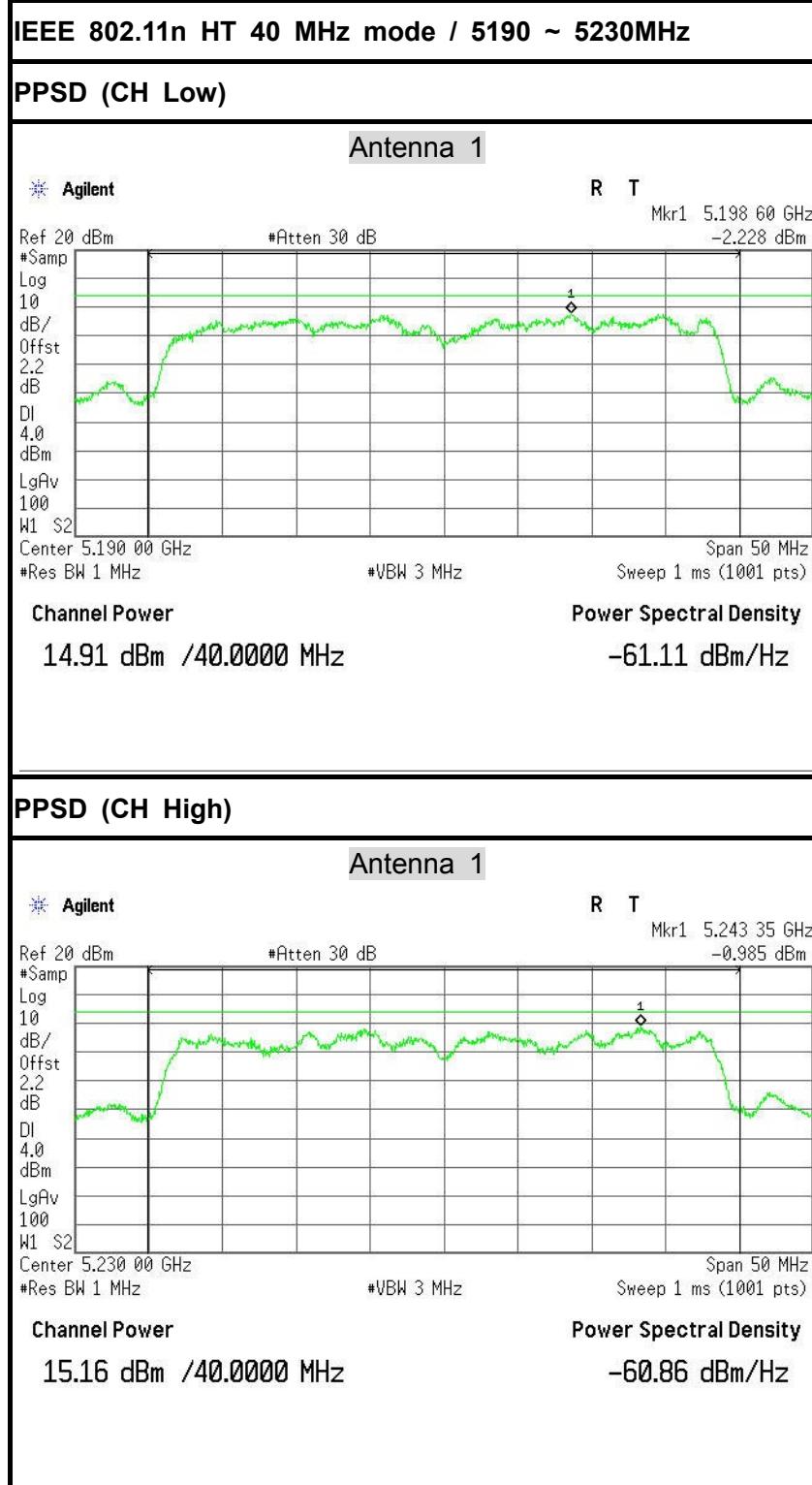
IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

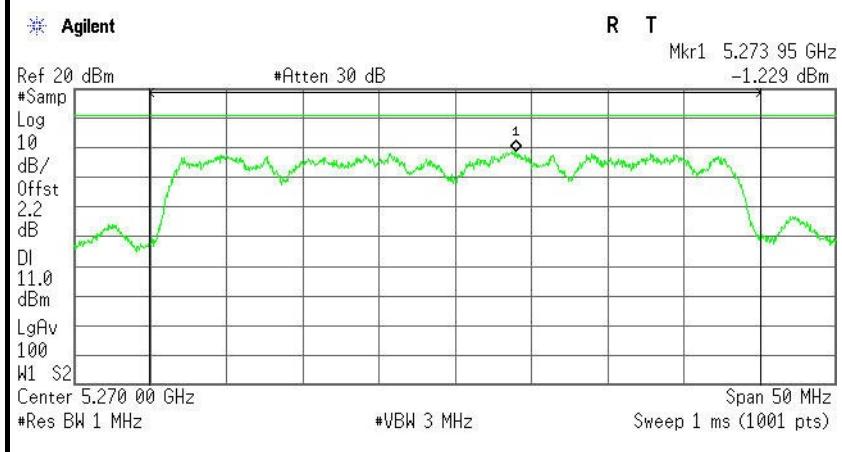
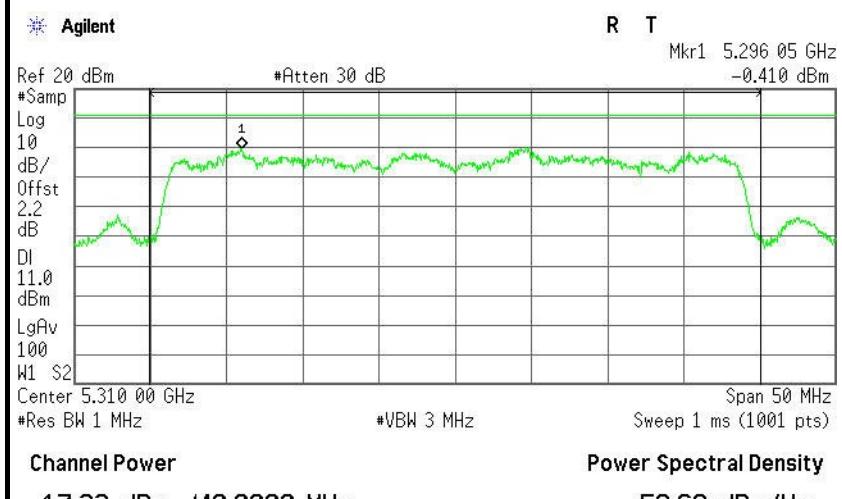
PPSD (CH Low)

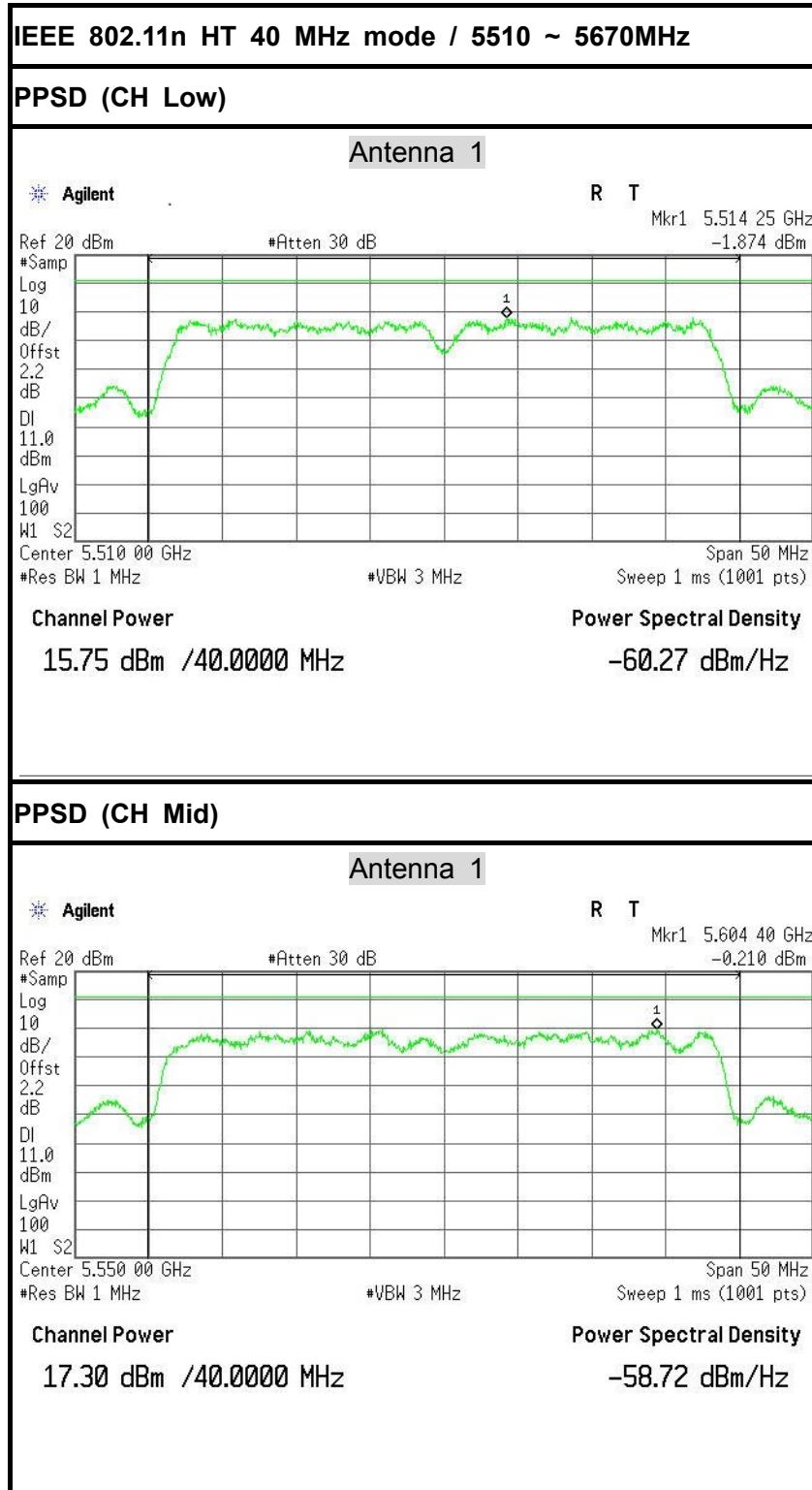
Antenna 0







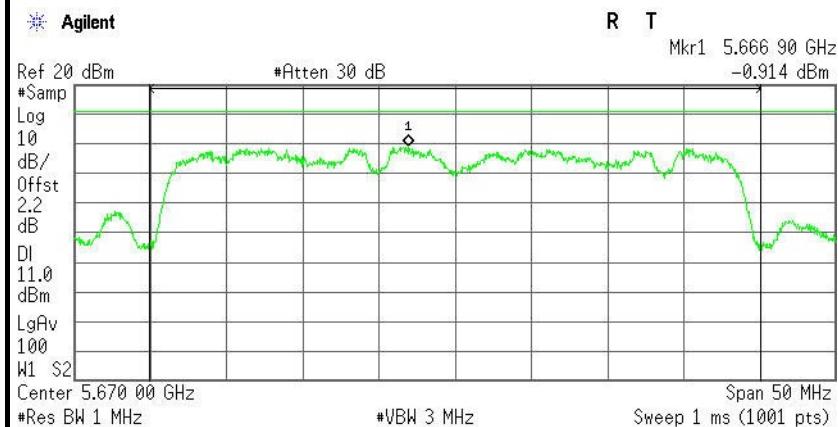
**IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz****PPSD (CH Low)****Antenna 1****PPSD (CH High)****Antenna 1**





PPSD (CH High)

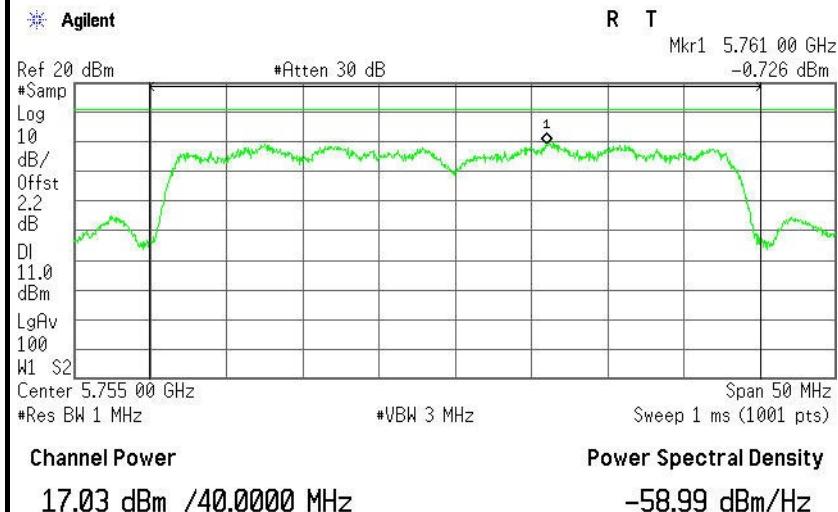
Antenna 1

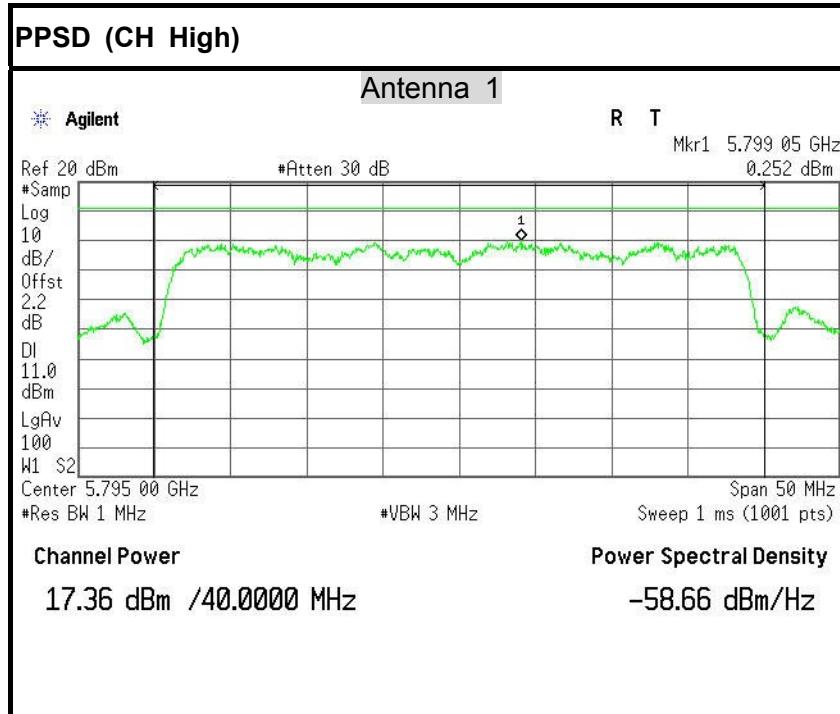


IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

PPSD (CH Low)

Antenna 1







7.6 PEAK EXCURSION

7.6.1 LIMIT

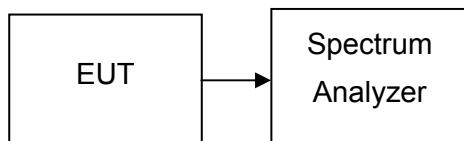
According to §15.407(a)(6), the ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

7.6.2 MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	03/01/2014	03/01/2015

Remark: Each piece of equipment is scheduled for calibration once a year.

7.6.3 TEST CONFIGURATION



7.6.4 TEST PROCEDURE

The test is performed in accordance with <FCC Public Notice: APPENDIX A Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices> – Part 15, Subpart E, August 2002.

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum.
3. Trace A, Set RBW =1MHz, VBW = 3MHz, Span >26dB Bandwidth, Max. hold.
4. Delta Mark trace A Maximum frequency and trace B same frequency.
5. Repeat the above procedure until measurements for all frequencies were complete.

7.6.5 TEST RESULTS

No non-compliance noted

**Test Data****Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz**

Channel	Frequency (MHz)	Pek Excursion (dB)		Limit (dB)	Margain (dB)		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5180	6.802	5.788	13	-6.198	-7.212	PASS
Mid	5220	6.791	5.136		-6.209	-7.864	PASS
High	5240	6.786	4.970		-6.214	-8.030	PASS

Test mode: IEEE 802.11a mode / 5260 ~ 5320MHz

Channel	Frequency (MHz)	Pek Excursion (dB)		Limit (dB)	Margain (dB)		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5260	7.654	5.476	13	-5.346	-7.524	PASS
Mid	5280	7.201	4.867		-5.799	-8.133	PASS
High	5320	5.891	4.340		-7.109	-8.660	PASS

Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	Pek Excursion (dB)		Limit (dB)	Margain (dB)		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5500	5.799	4.326	13	-7.201	-8.674	PASS
Mid	5580	6.731	4.682		-6.269	-8.318	PASS
High	5700	7.684	4.204		-5.316	-8.796	PASS

Test mode: IEEE 802.11a mode / 5745 ~ 5805MHz

Channel	Frequency (MHz)	Pek Excursion (dB)		Limit (dB)	Margain (dB)		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5745	7.669	5.383	13	-5.331	-7.617	PASS
Mid	5785	5.017	4.582		-7.983	-8.418	PASS
High	5805	6.764	5.642		-6.236	-7.358	PASS

**Test mode: IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz**

Channel	Frequency (MHz)	Pek Excursion (dB)		Limit (dB)	Margain (dB)		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5180	5.531	5.832	13	-7.469	-7.168	PASS
Mid	5220	4.365	4.466		-8.635	-8.534	PASS
High	5240	5.676	5.941		-7.324	-7.059	PASS

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

Channel	Frequency (MHz)	Pek Excursion (dB)		Limit (dB)	Margain (dB)		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5260	5.702	5.141	13	-7.298	-7.859	PASS
Mid	5280	8.911	6.619		-4.089	-6.381	PASS
High	5320	6.543	5.366		-6.457	-7.634	PASS

Test mode: IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	Pek Excursion (dB)		Limit (dB)	Margain (dB)		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5500	6.046	4.617	13	-6.954	-8.383	PASS
Mid	5580	4.789	5.521		-8.211	-7.479	PASS
High	5700	5.624	5.377		-7.376	-7.623	PASS

Test mode: IEEE 802.11n HT 20 MHz mode / 5745 ~ 5805MHz

Channel	Frequency (MHz)	Pek Excursion (dB)		Limit (dB)	Margain (dB)		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5745	5.726	5.475	13	-7.274	-7.525	PASS
Mid	5785	4.723	7.221		-8.277	-5.779	PASS
High	5805	5.053	6.094		-7.947	-6.906	PASS



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

Channel	Frequency (MHz)	Pek Excursion (dB)		Limit (dB)	Margain (dB)		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5190	6.511	6.452	13	-6.489	-6.548	PASS
High	5230	5.180	4.940		-7.820	-8.060	PASS

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

Channel	Frequency (MHz)	Pek Excursion (dB)		Limit (dB)	Margain (dB)		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5270	4.750	5.398	13	-8.250	-7.602	PASS
High	5310	4.995	7.077		-8.005	-5.923	PASS

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

Channel	Frequency (MHz)	Pek Excursion (dB)		Limit (dB)	Margain (dB)		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5510	7.045	7.220	13	-5.955	-5.780	PASS
Mid	5550	6.074	4.480		-6.926	-8.520	PASS
High	5670	6.576	6.593		-6.424	-6.407	PASS

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

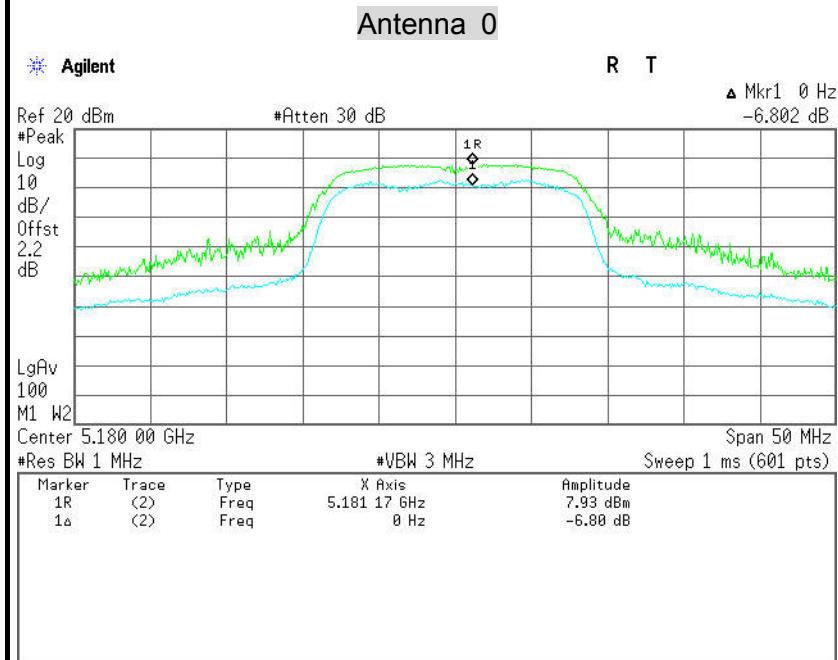
Channel	Frequency (MHz)	Pek Excursion (dB)		Limit (dB)	Margain (dB)		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5755	5.203	6.218	13	-7.797	-6.782	PASS
High	5795	4.852	7.015		-8.148	-5.985	PASS



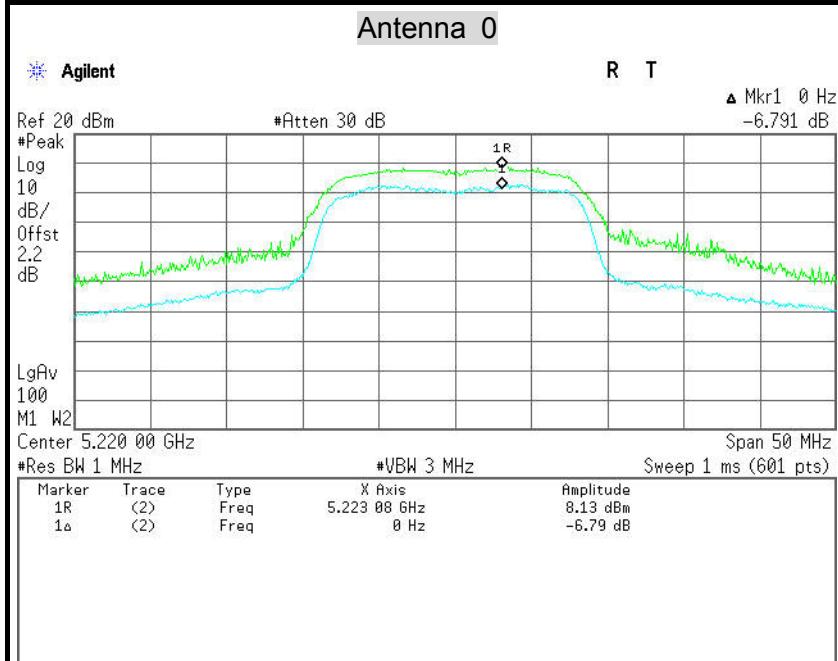
Test Plot

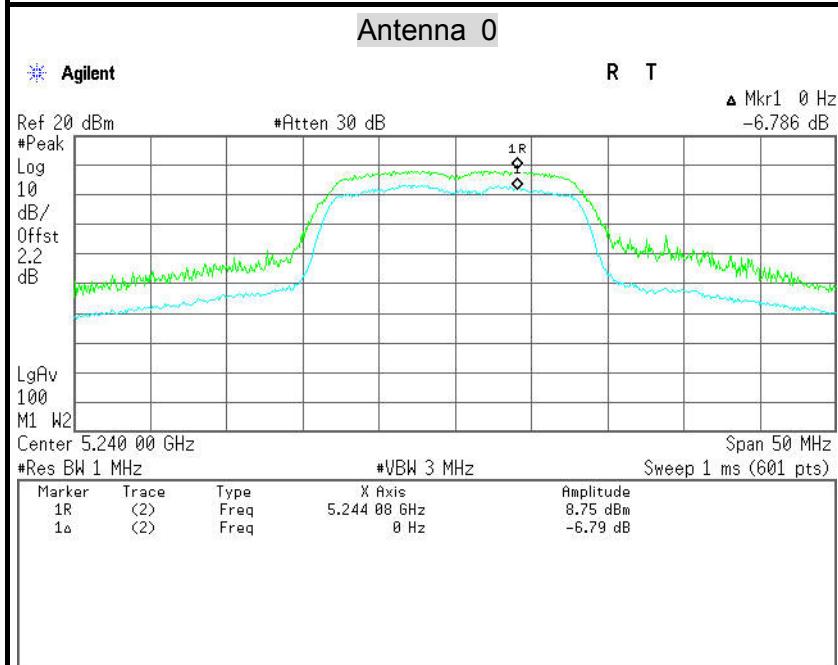
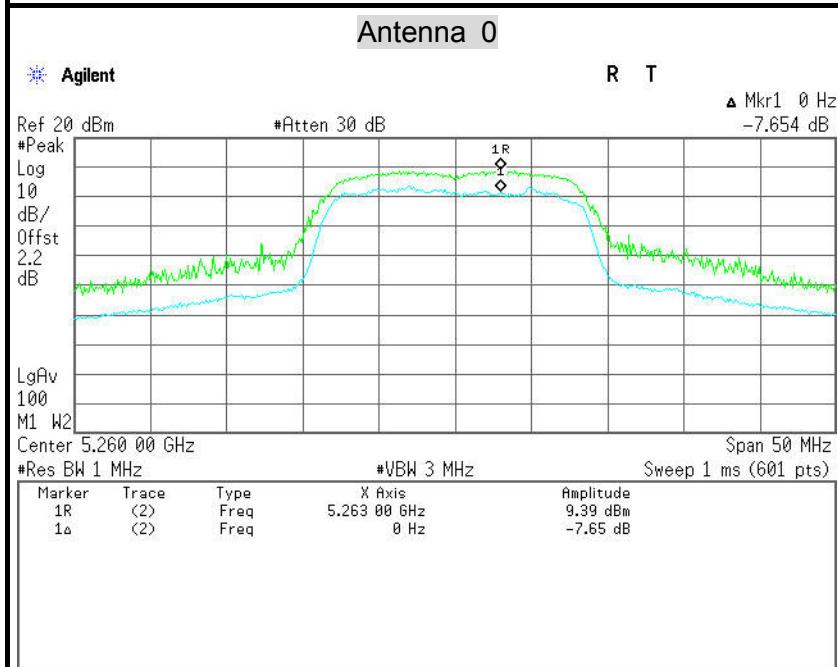
IEEE 802.11a mode / 5180 ~ 5240MHz

CH Low



CH Mid



**PPSD (CH High)****IEEE 802.11a mode / 5260 ~ 5320MHz****CH Low**



CH Mid

Antenna 0



Agilent

R T

△ Mkr1 0 Hz

-7.201 dB

Ref 20 dBm
#Peak Log 10 dB/
Offst 2.2 dB

#Atten 30 dB

LgAv 100
M1 W2Center 5.280 00 GHz
#Res BW 1 MHz

#VBW 3 MHz

Span 50 MHz
Sweep 1 ms (601 pts)

Marker	Trace	Type	X Axis	Amplitude
1R	(2)	Freq	5.285 50 GHz	9.51 dBm
1 _a	(2)	Freq	0 Hz	-7.20 dB

CH High

Antenna 0



Agilent

R T

△ Mkr1 0 Hz

-5.891 dB

Ref 20 dBm
#Peak Log 10 dB/
Offst 2.2 dB

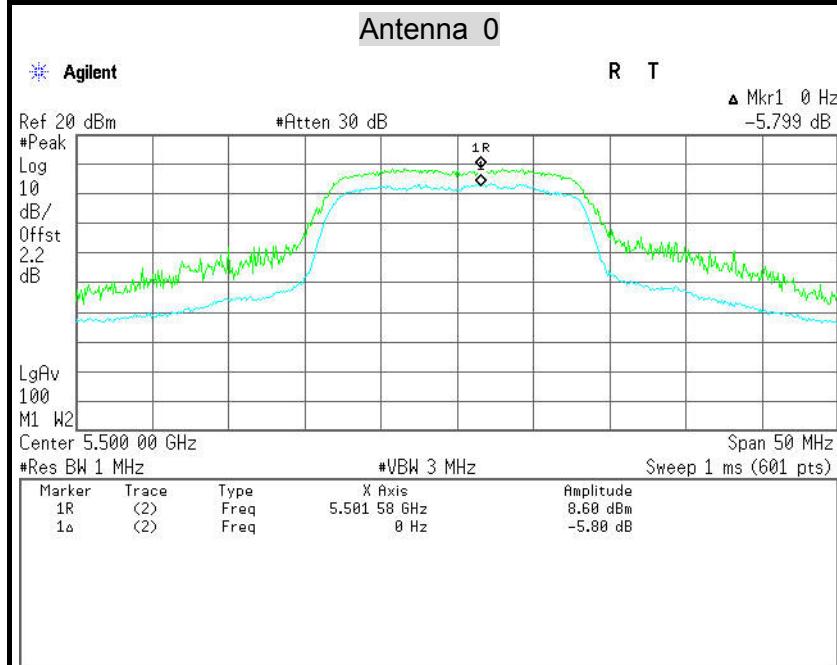
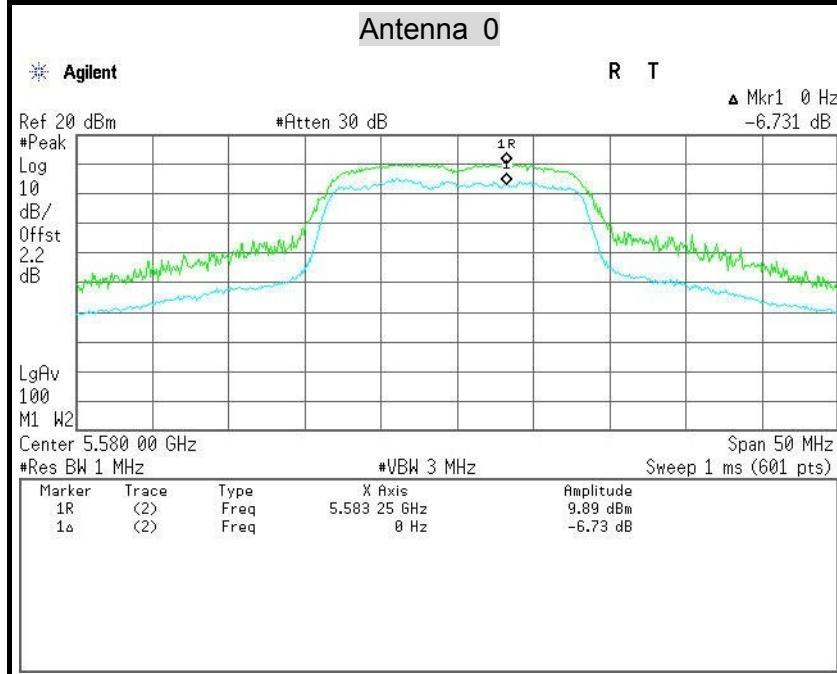
#Atten 30 dB

LgAv 100
M1 W2Center 5.320 00 GHz
#Res BW 1 MHz

#VBW 3 MHz

Span 50 MHz
Sweep 1 ms (601 pts)

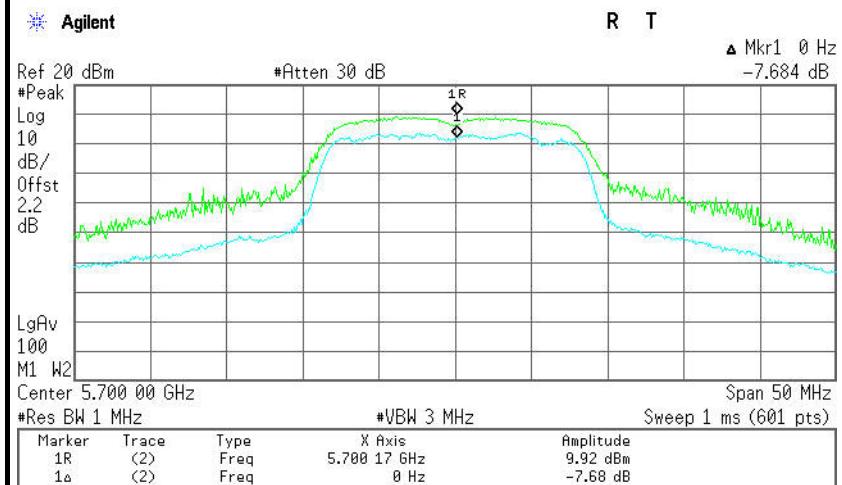
Marker	Trace	Type	X Axis	Amplitude
1R	(2)	Freq	5.323 50 GHz	10.03 dBm
1 _a	(2)	Freq	0 Hz	-5.89 dB

**IEEE 802.11a mode / 5500 ~ 5700MHz****CH Low****CH Mid**



CH High

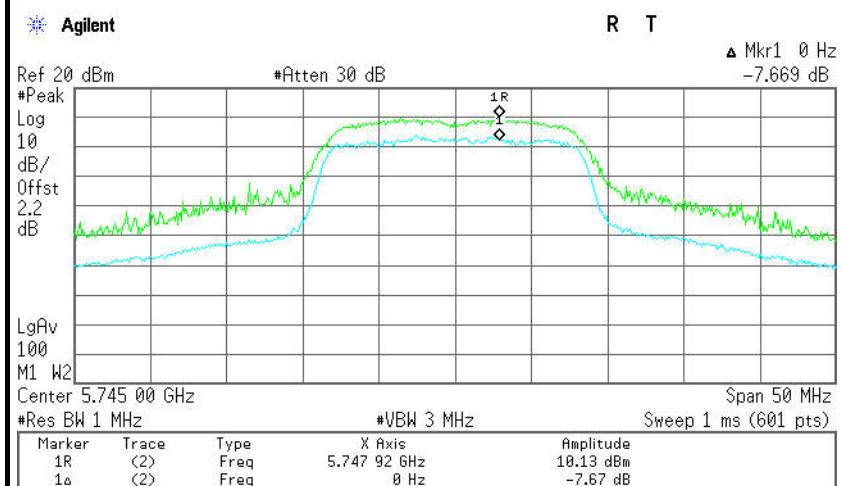
Antenna 0

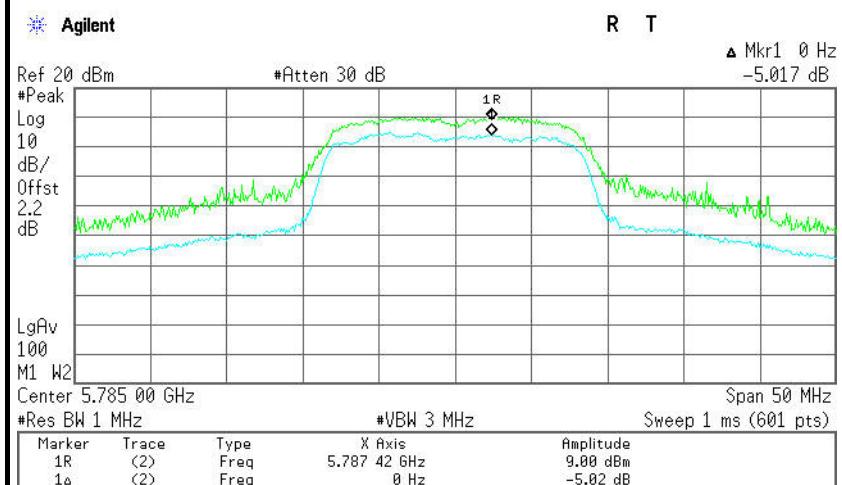
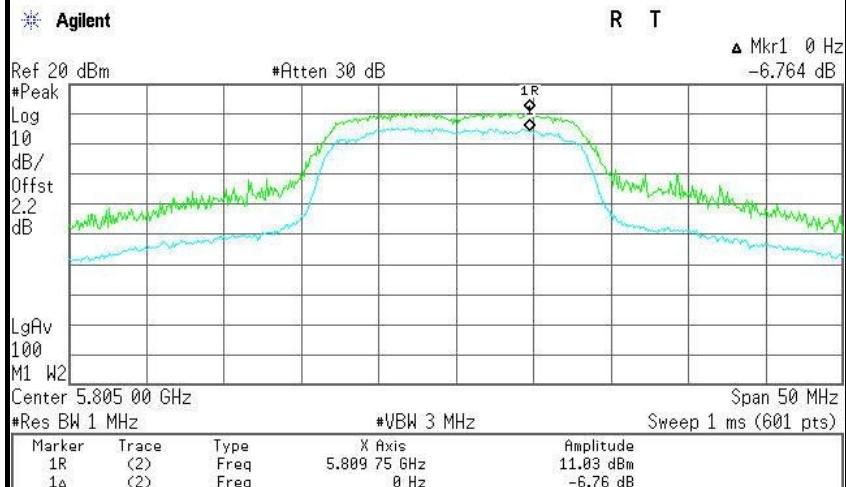


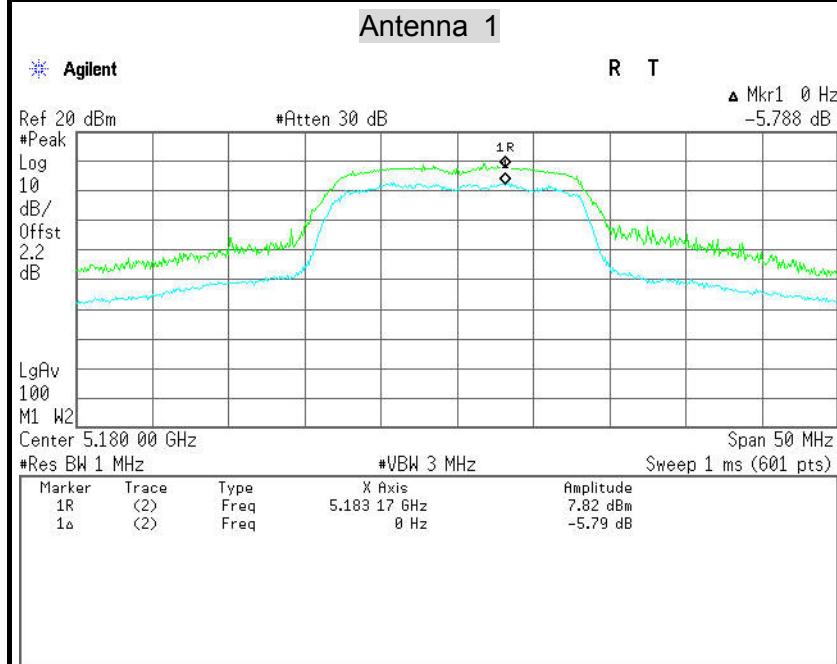
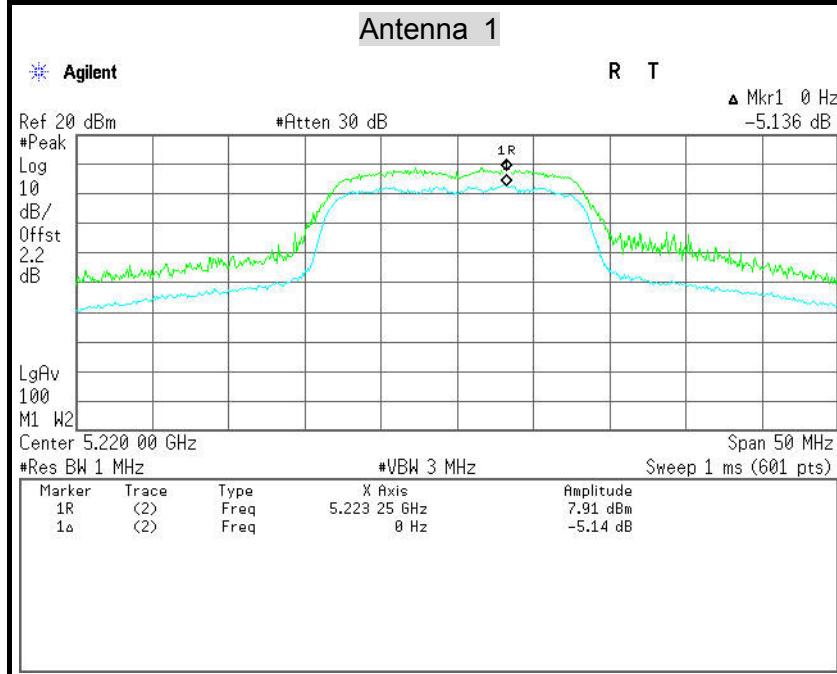
IEEE 802.11a mode / 5745 ~ 5805MHz

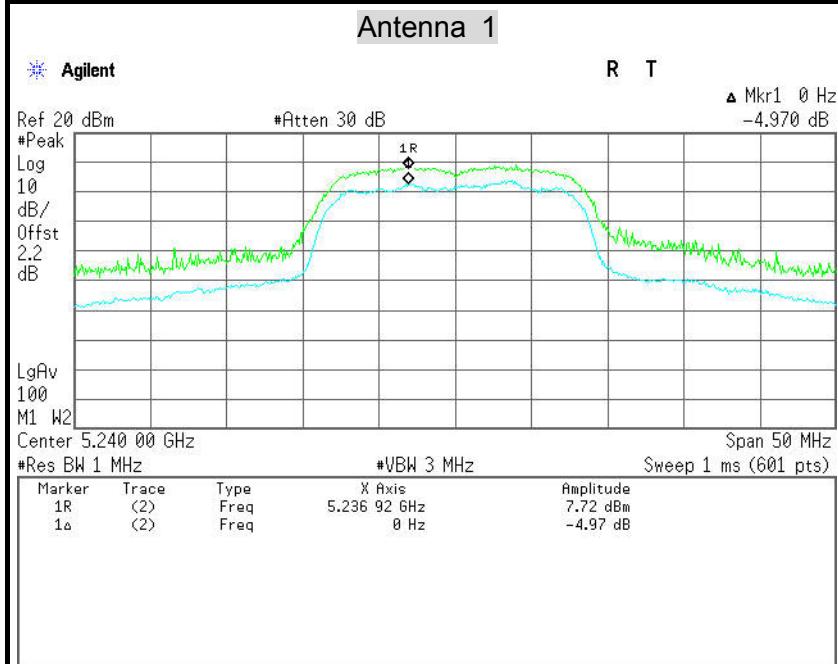
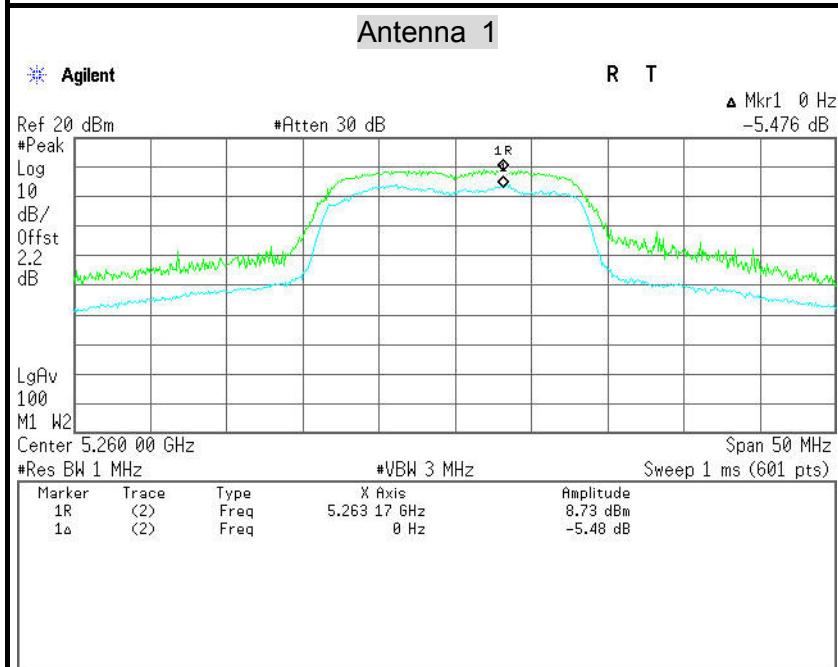
CH Low

Antenna 0



**CH Mid****Antenna 0****CH High****Antenna 0**

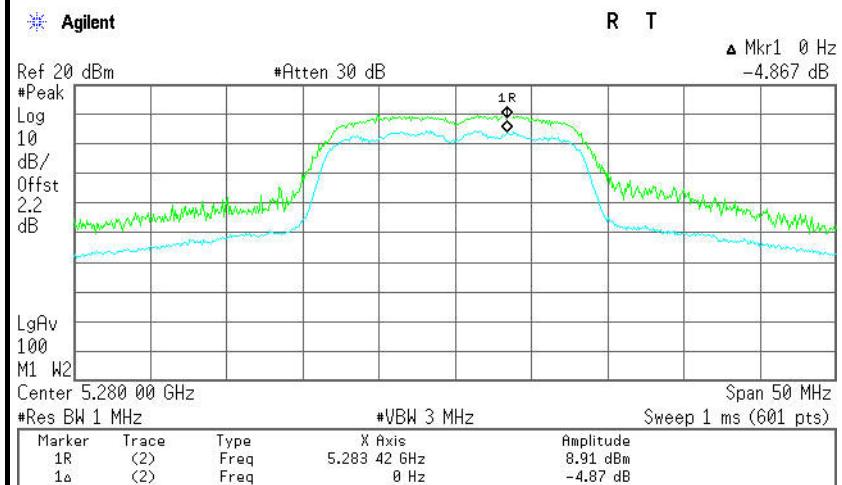
**IEEE 802.11a mode / 5180 ~ 5240MHz****CH Low****CH Mid**

**CH High****IEEE 802.11a mode / 5260 ~ 5320MHz****CH Low**



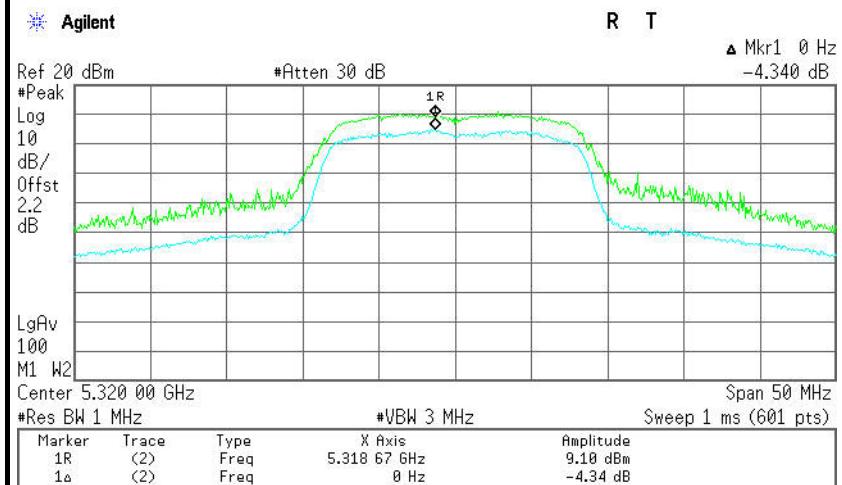
CH Mid

Antenna 1



CH High

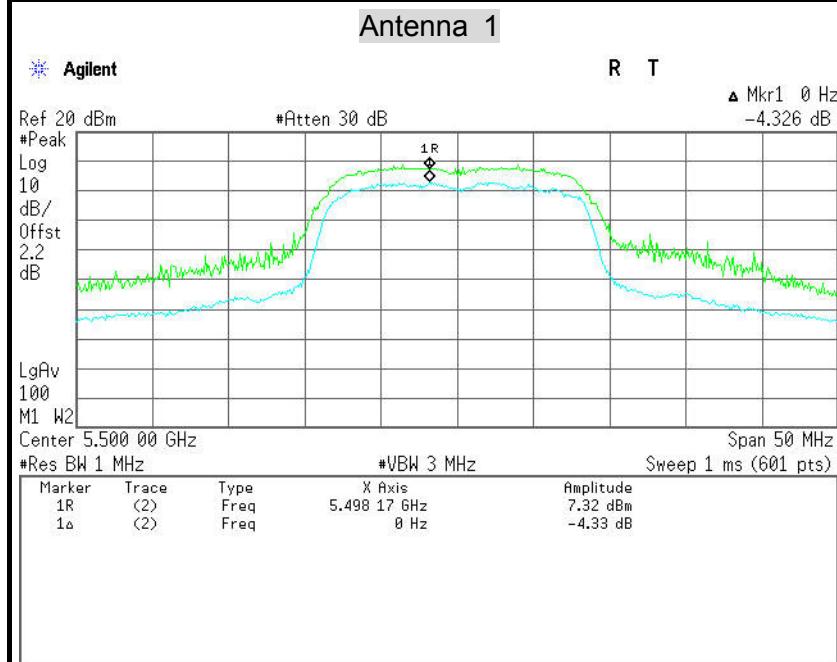
Antenna 1



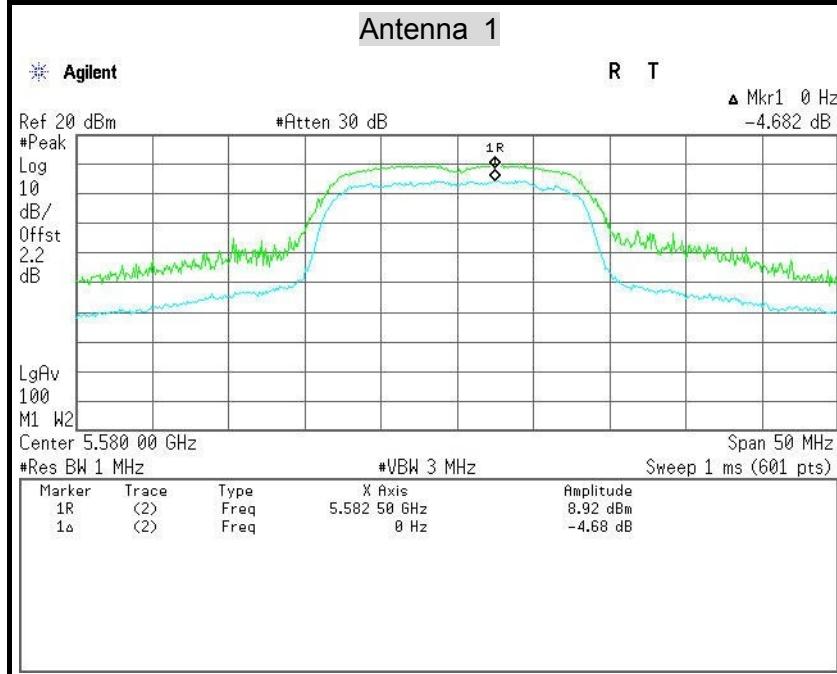


IEEE 802.11a mode / 5500 ~ 5700MHz

CH Low



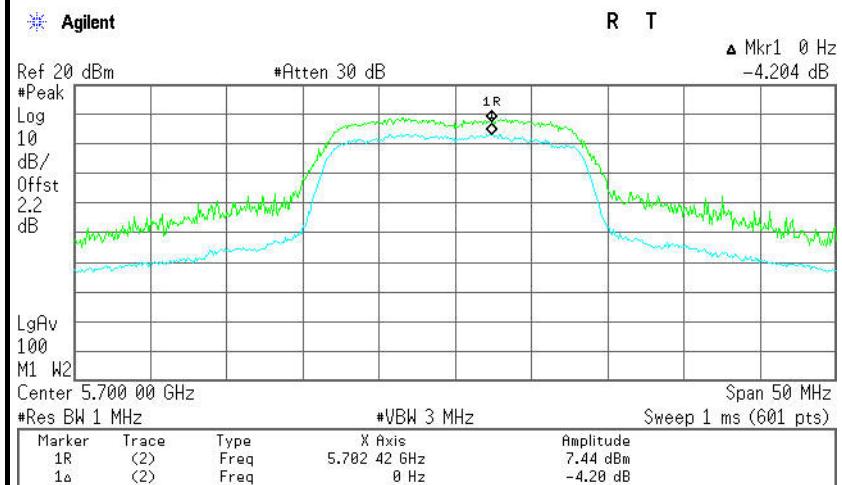
CH Mid





CH High

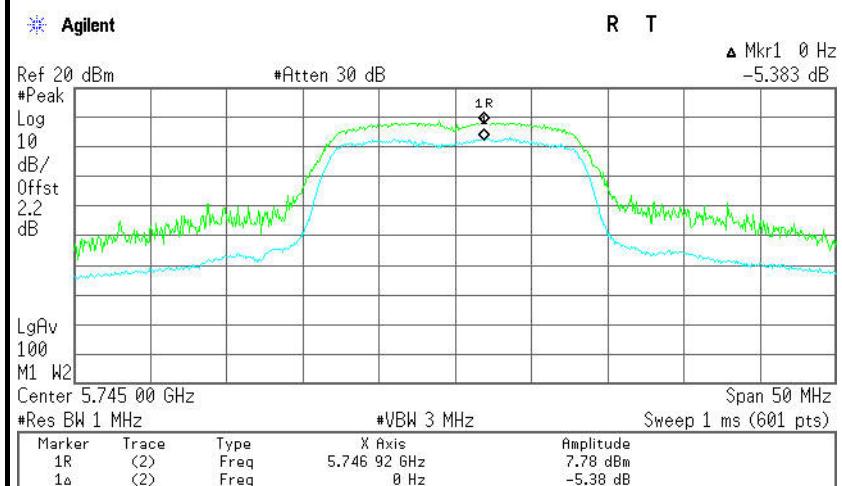
Antenna 1



IEEE 802.11a mode / 5745 ~ 5805MHz

CH Low

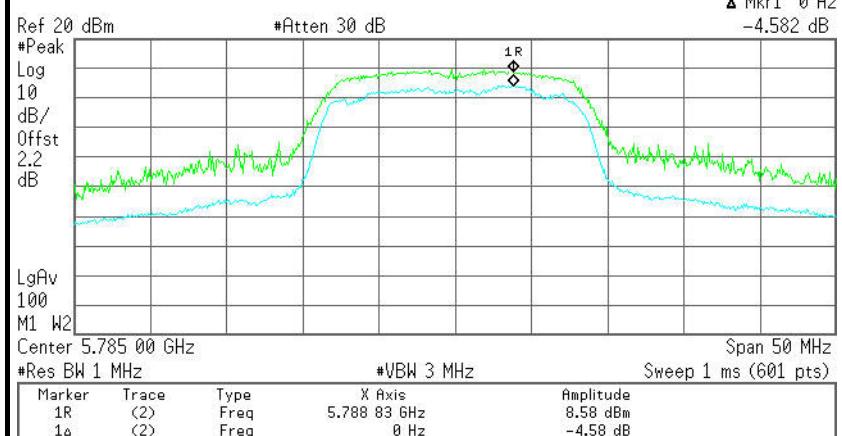
Antenna 1



**CH Mid****Antenna 1**

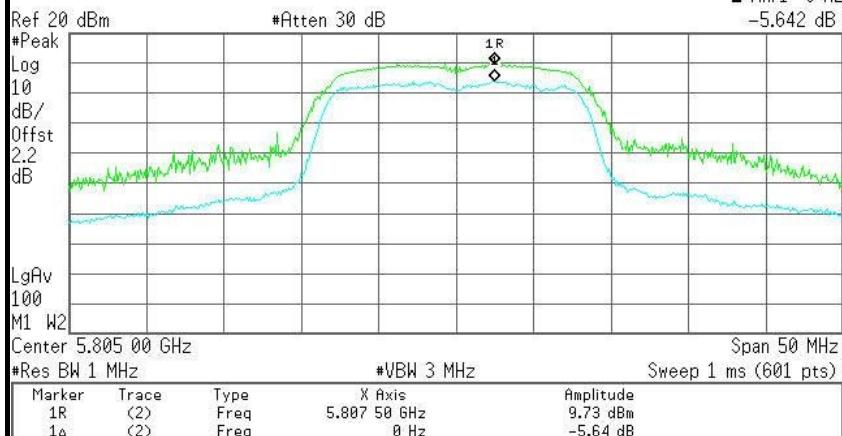
Agilent

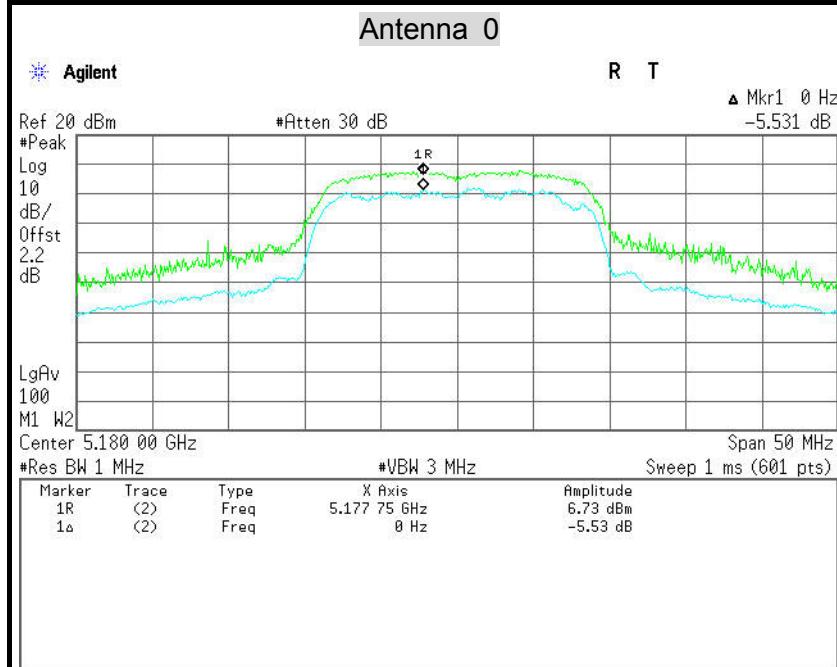
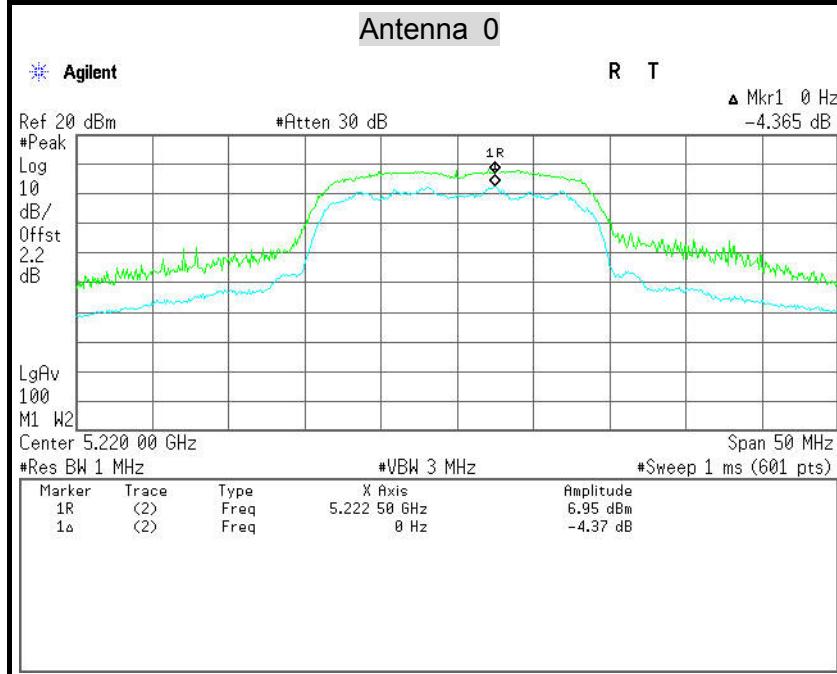
R T

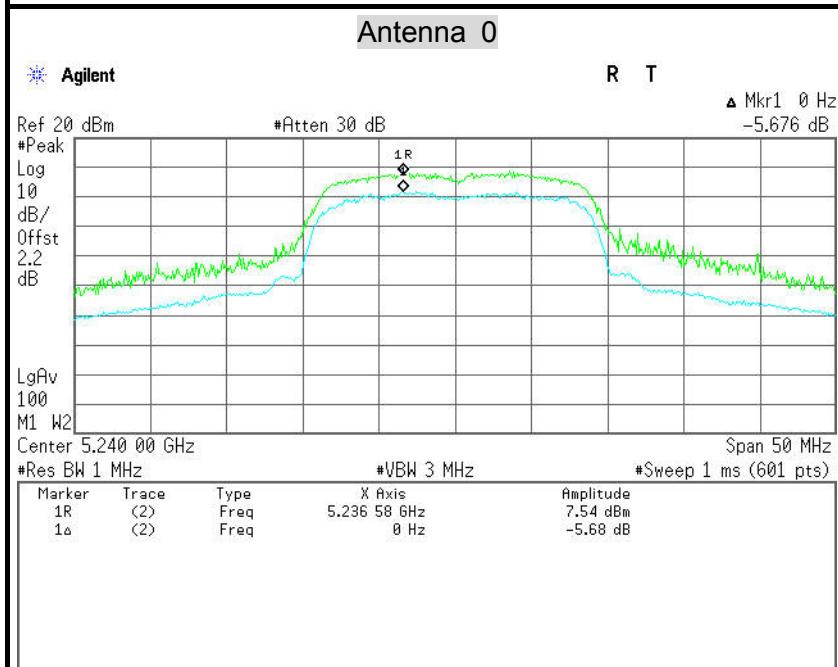
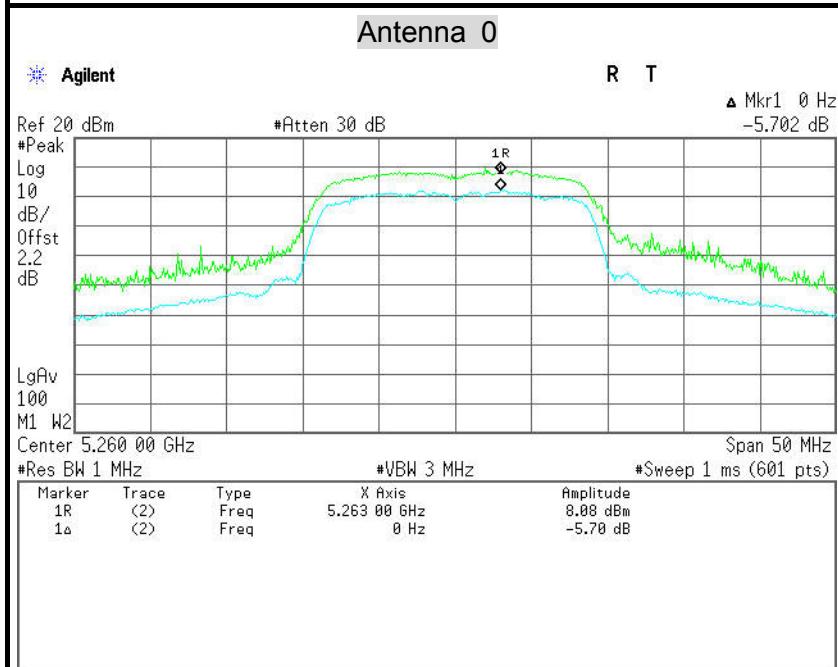
△ Mkr1 0 Hz
-4.582 dB**CH High****Antenna 1**

Agilent

R T

△ Mkr1 0 Hz
-5.642 dB

**IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz****CH Low****CH Mid**

**CH High****IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz****CH Low**



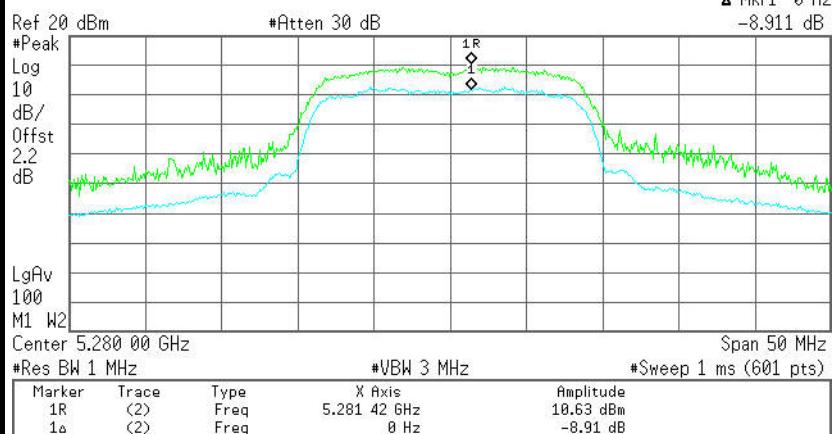
CH Mid

Antenna 0



Agilent

R T

△ Mkr1 0 Hz
-8.911 dB

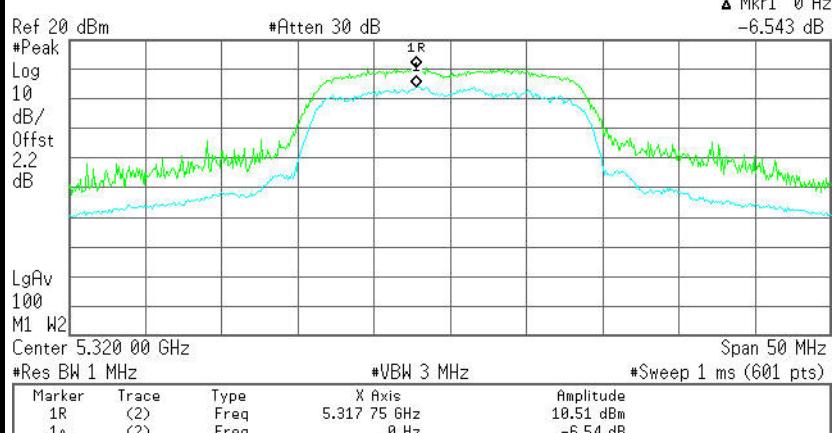
CH High

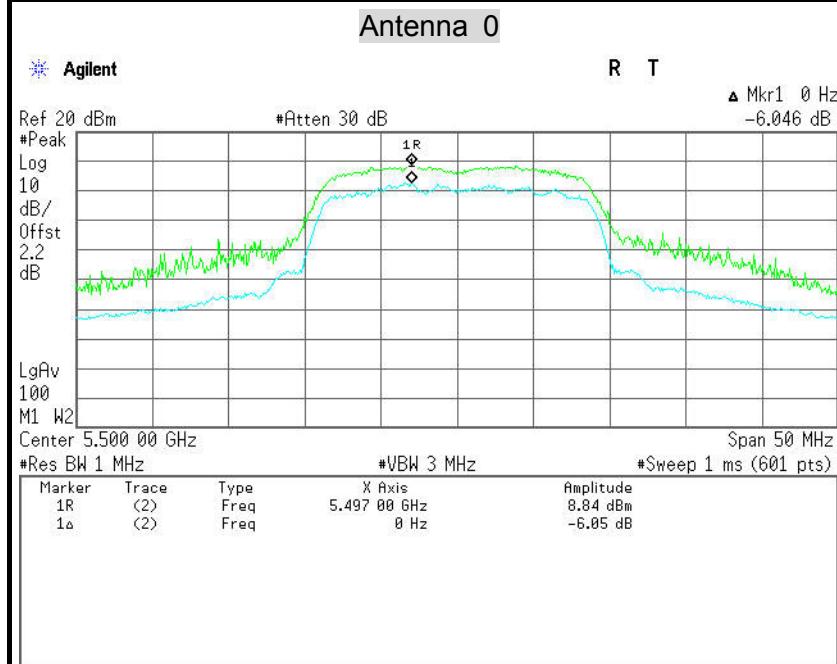
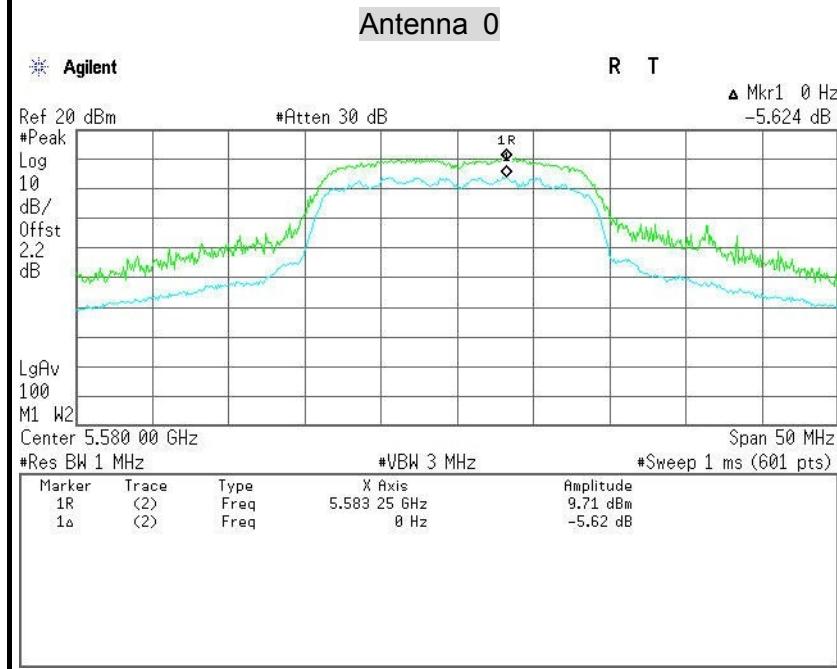
Antenna 0



Agilent

R T

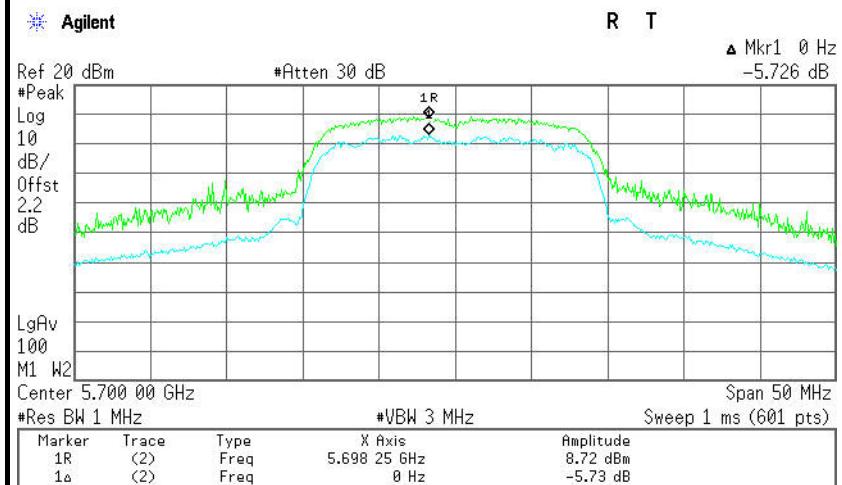
△ Mkr1 0 Hz
-6.543 dB

**IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz****CH Low****CH Mid**



CH High

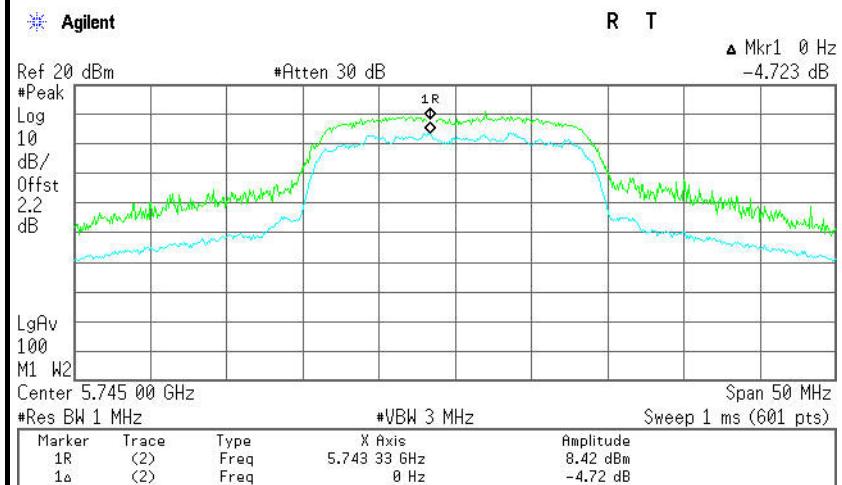
Antenna 0

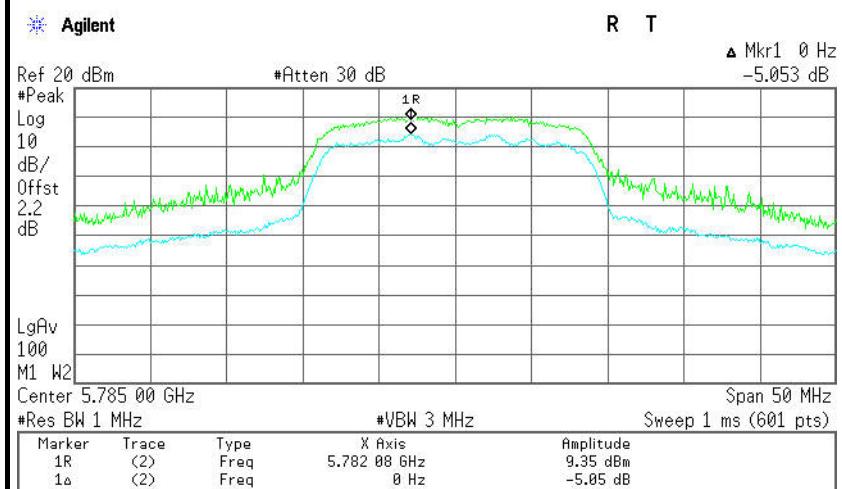
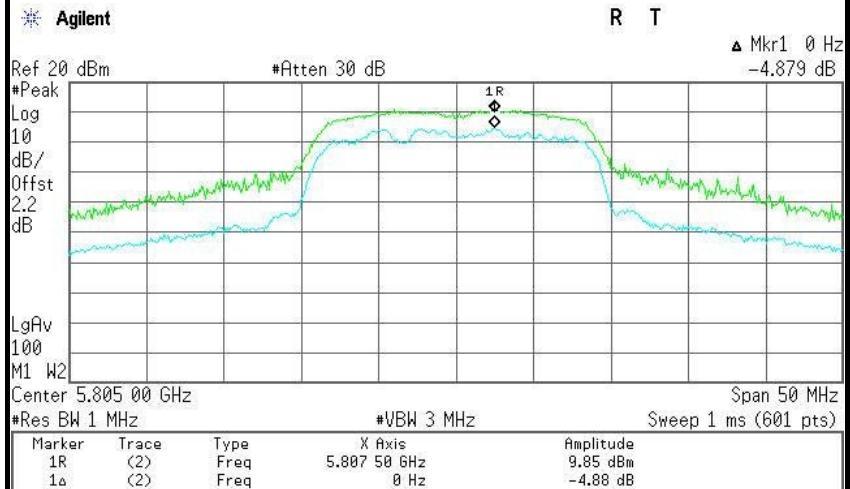


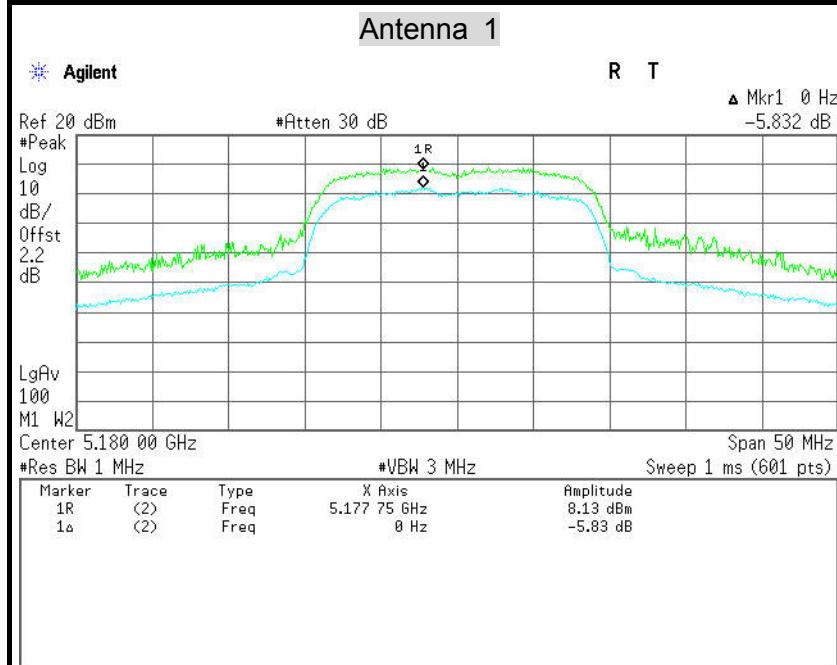
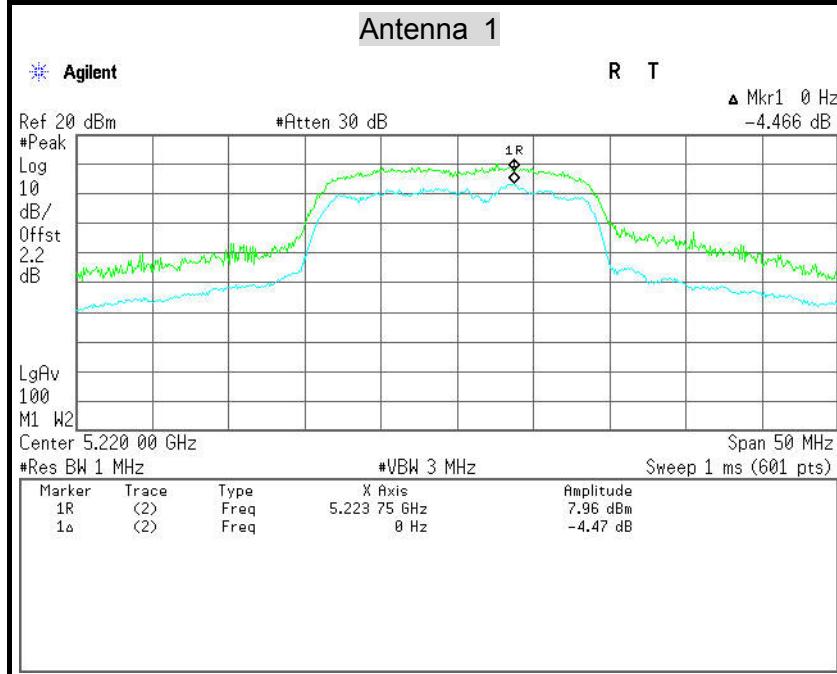
IEEE 802.11n HT 20 MHz mode / 5745 ~ 5805MHz

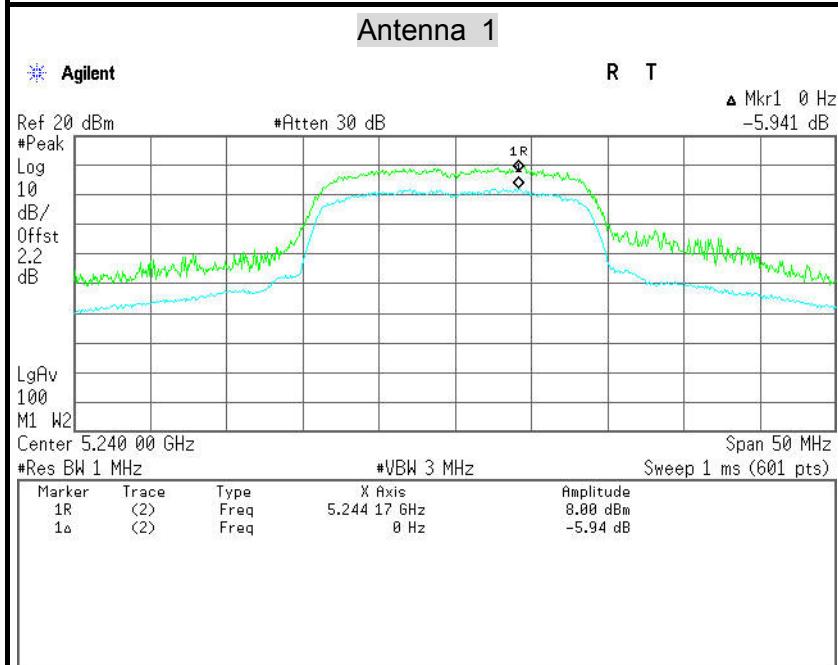
CH Low

Antenna 0



**CH Mid****Antenna 0****CH High****Antenna 0**

**IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz****CH Low****CH Mid**

**CH High****IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz****CH Low**