

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

Channel	Frequency (MHz)	PPSD (dBm)				Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 3				
Low	5180	0.303	0.077	0.253	1.062	6.461	13.48	-7.019	PASS
Mid	5200	1.075	0.966	1.384	1.442	7.242		-6.238	PASS
High	5240	1.179	0.927	0.733	0.992	6.981		-6.499	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)				Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 3				
Low	5260	0.884	1.045	1.062	1.208	7.072	7.48	-0.408	PASS
Mid	5300	1.355	1.069	1.291	1.050	7.214		-0.266	PASS
High	5320	1.077	1.345	1.461	1.455	7.358		-0.122	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)				Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 3				
Low	5500	1.730	1.450	1.285	1.010	7.397	7.48	-0.083	PASS
Mid	5580	1.384	1.408	1.338	1.517	7.433		-0.047	PASS
High	5700	1.085	1.163	1.066	0.820	7.056		-0.424	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)				Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 3				
Low	5745	4.713	4.726	5.315	6.262	11.322	26.48	-15.158	PASS
Mid	5785	5.399	5.022	5.678	6.397	11.674		-14.806	PASS
High	5825	5.296	5.222	5.954	6.629	11.834		-14.646	PASS

Remark:

Directional Gain=  $G_{ant} + 10\log(N_{ant})$  dBi $G_{ant}$ : Gain of Individual Antennas (Same for Each Antenna) $N_{ant}$ : Number of Transmit Antennas

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

Channel	Frequency (MHz)	PPSD (dBm)				Total (dBm)	Limit (dBm)	Margin	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 3				
Low	5190	-2.416	-3.266	-2.453	-1.942	2.264	13.48	-11.216	PASS
High	5230	-2.381	-2.312	-2.107	-1.668	2.663		-10.817	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)				Total (dBm)	Limit (dBm)	Margin	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 3				
Low	5270	-0.867	-1.125	-1.063	-0.930	5.026	7.48	-2.454	PASS
High	5310	-0.538	-1.053	-0.969	-1.524	5.014		-2.466	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)				Total (dBm)	Limit (dBm)	Margin	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 3				
Low	5510	-1.373	-1.200	-1.310	-1.388	4.703	7.48	-2.777	PASS
Mid	5550	-1.451	-1.167	-1.453	-1.364	4.663		-2.817	PASS
High	5670	-1.875	-2.395	-1.968	-1.863	4.001			-3.479 PAss

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

Channel	Frequency (MHz)	PPSD (dBm)				Total (dBm)	Limit (dBm)	Margin	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 3				
Low	5755	2.392	2.007	1.971	1.964	8.108	26.48	-18.372	PASS
High	5795	2.222	2.354	2.400	2.409	8.367		-18.113	PASS

Remark:

Directional Gain =  $G_{ant} + 10\log(N_{ant})$  dB $G_{ant}$ : Gain of Individual Antennas (Same for Each Antenna) $N_{ant}$ : Number of Transmit Antennas

**Test mode: IEEE 802.11ac 80 mode / 5210MHz**

Channel	Frequency (MHz)	PPSD (dBm)				Total (dBm)	Limit (dBm)	Margin	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 3				
	5210	-2.796	-3.281	-2.673	-3.805	2.904	13.48	-10.576	PASS

**Test mode: IEEE 802.11ac 80 mode / 5290MHz**

Channel	Frequency (MHz)	PPSD (dBm)				Total (dBm)	Limit (dBm)	Margin	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 3				
	5290	-4.236	-4.226	-4.425	-4.232	1.742	7.48	-5.738	PASS

**Test mode: IEEE 802.11ac 80 mode / 5530MHz**

Channel	Frequency (MHz)	PPSD (dBm)				Total (dBm)	Limit (dBm)	Margin	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 3				
	5530	-4.561	-4.486	-4.569	-4.690	1.445	7.48	-6.035	PASS

**Test mode: IEEE 802.11ac 80 mode / 5775MHz**

Channel	Frequency (MHz)	PPSD (dBm)				Total (dBm)	Limit (dBm)	Margin	Result
		Antenna 0	Antenna 1	Antenna 2	Antenna 3				
	5775	0.557	-1.262	-0.871	0.254	5.756	26.48	-20.724	PASS

Remark:

Directional Gain=  $G_{ant} + 10\log(N_{ant})$  dB $G_{ant}$ : Gain of Individual Antennas (Same for Each Antenna) $N_{ant}$ : Number of Transmit Antennas



### Test Plot

IEEE 802.11a mode / 5180 ~ 5240MHz

PPSD (CH Low)

Antenna 0



PPSD (CH Mid)

Antenna 0

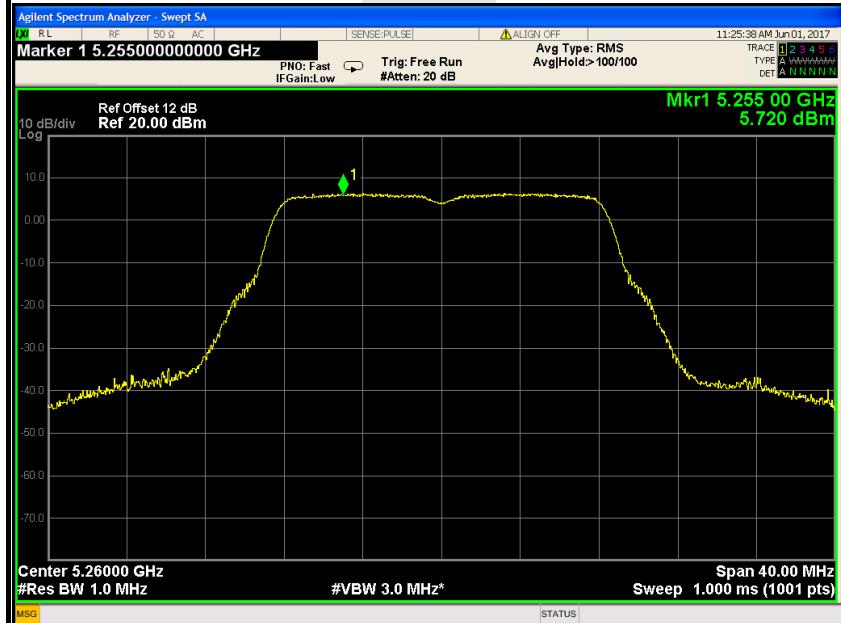


**PPSD (CH High)**

Antenna 0

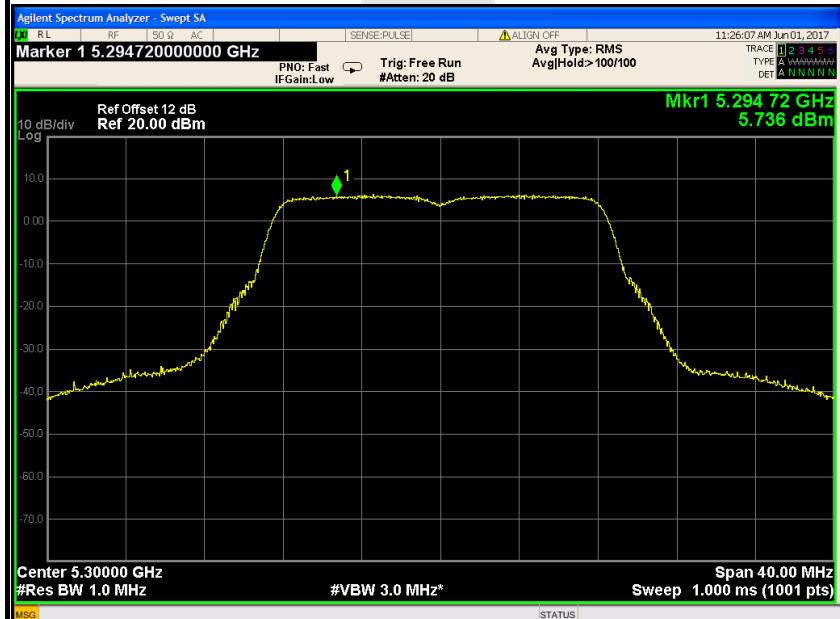
**IEEE 802.11a mode / 5260~ 5320MHz****PPSD (CH Low)**

Antenna 0



**PPSD (CH Mid)**

Antenna 0

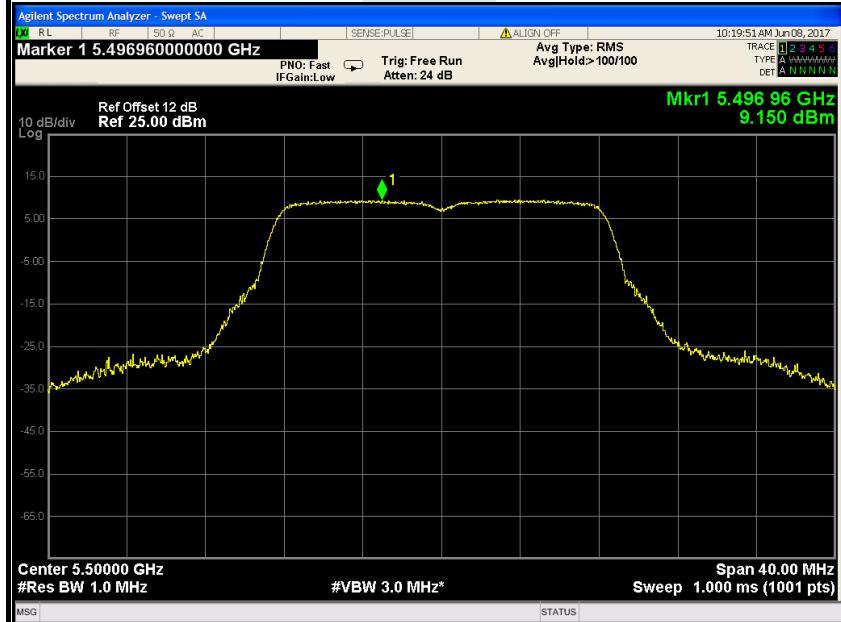
**PPSD (CH High)**

Antenna 0

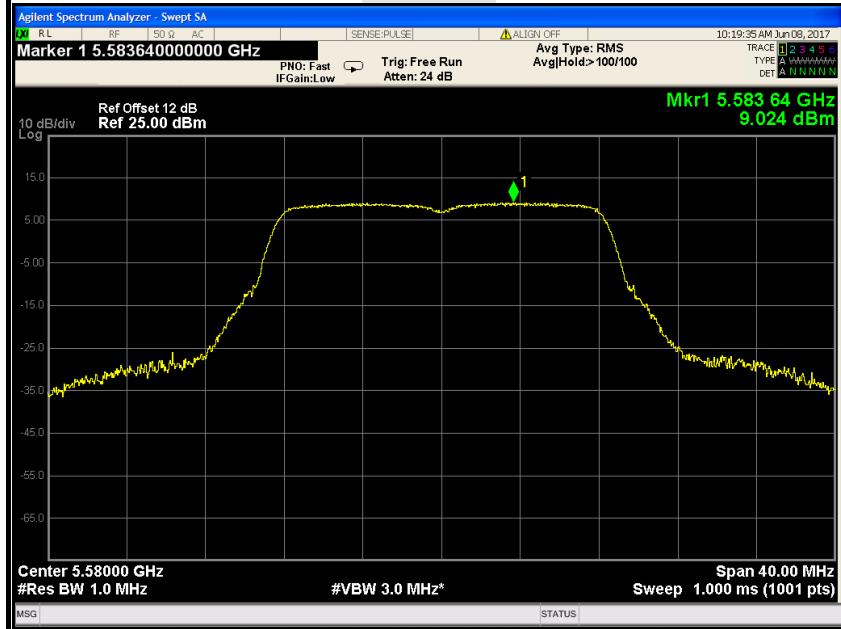


**IEEE 802.11a mode / 5500 ~ 5700MHz****PPSD (CH Low)**

Antenna 0

**PPSD (CH Mid)**

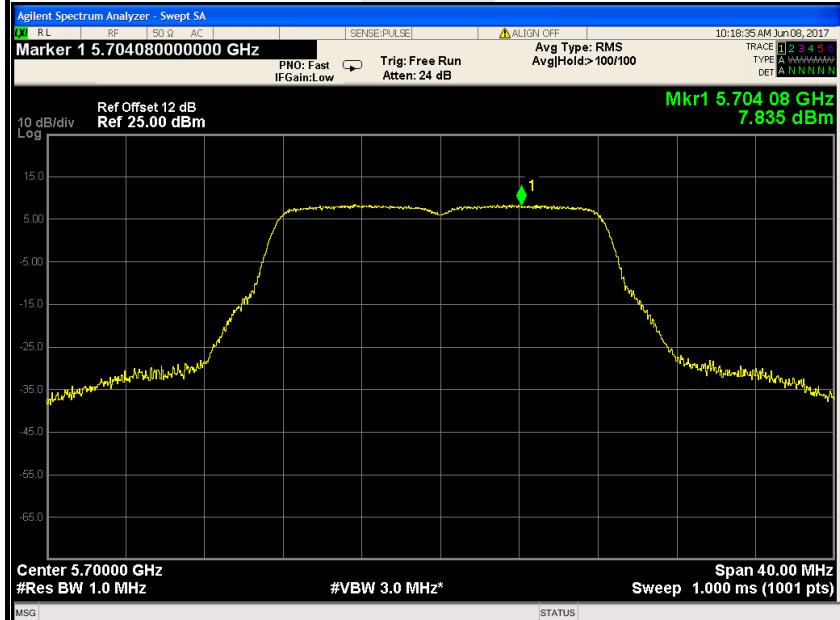
Antenna 0





## PPSD (CH High)

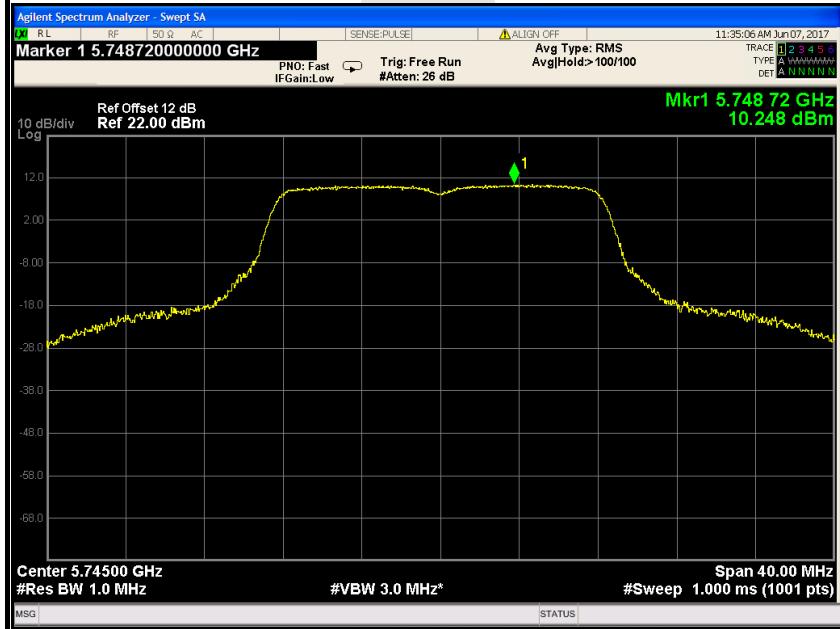
Antenna 0

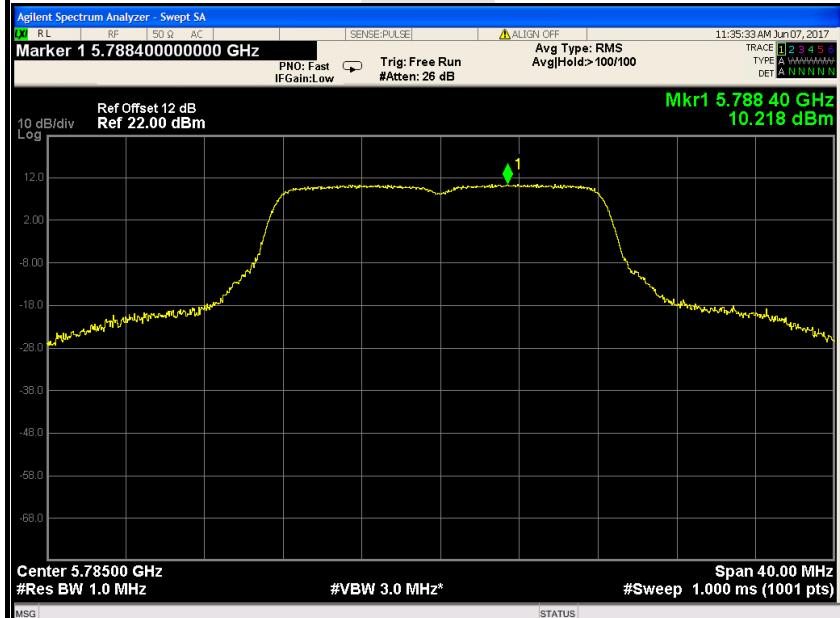
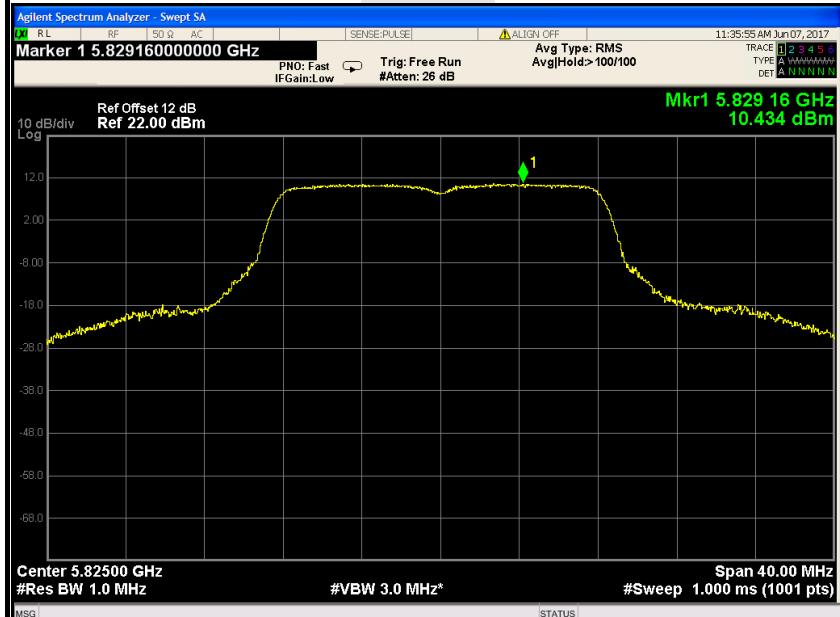


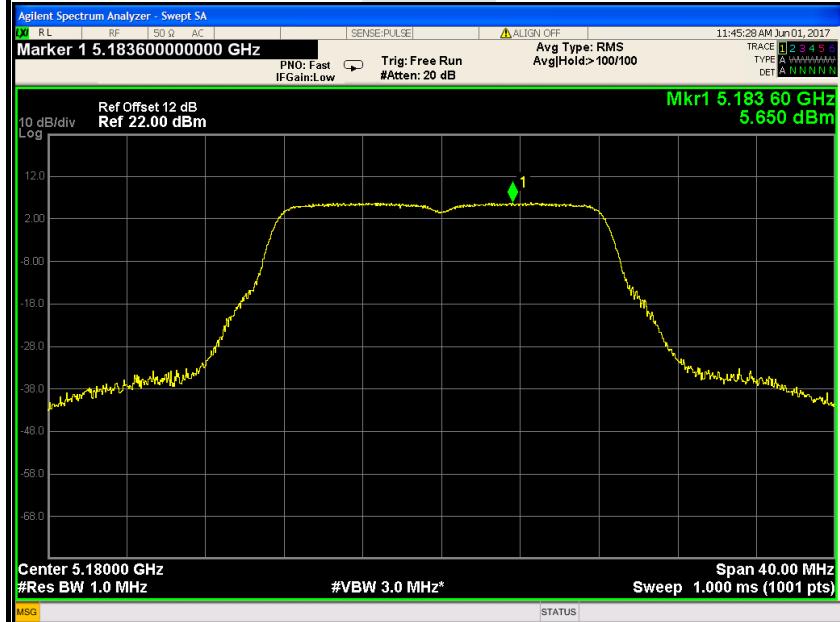
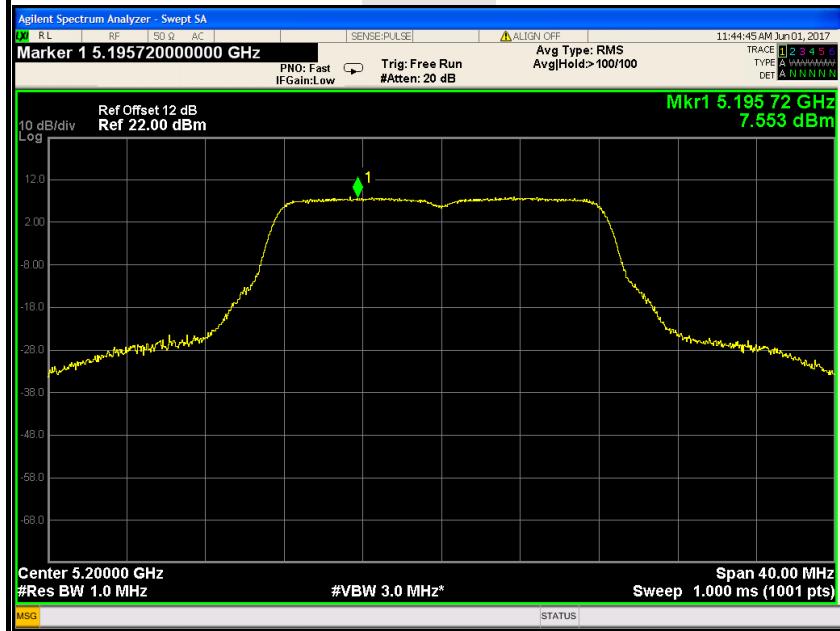
## IEEE 802.11a mode / 5745 ~ 5825MHz

## PPSD (CH Low)

Antenna 0



**PPSD (CH Mid)****Antenna 0****PPSD (CH High)****Antenna 0**

**IEEE 802.11a mode / 5180 ~ 5240MHz****PPSD (CH Low)****Antenna 1****PPSD (CH Mid)****Antenna 1**



## PPSD (CH High)

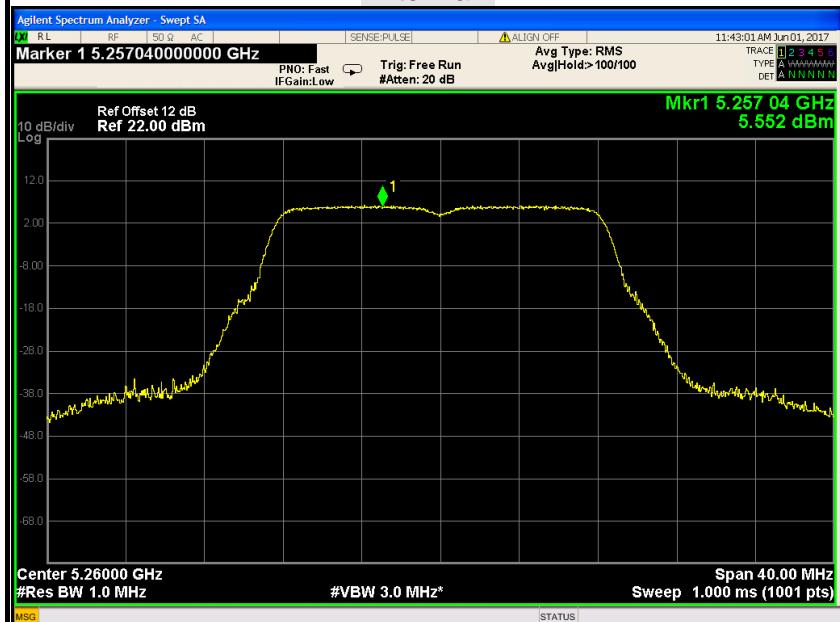
## Antenna 1



IEEE 802.11a mode / 5260~ 5320MHz

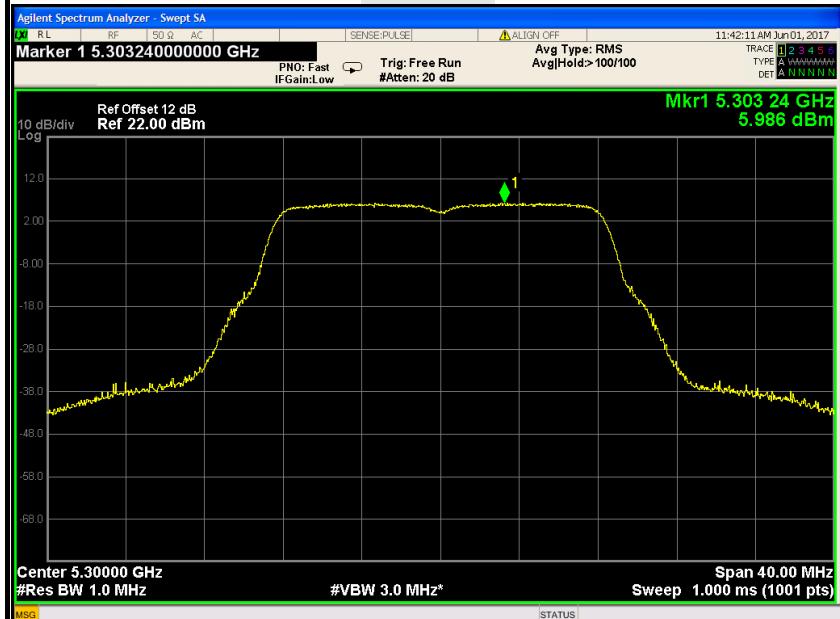
## PPSD (CH Low)

## Antenna 1

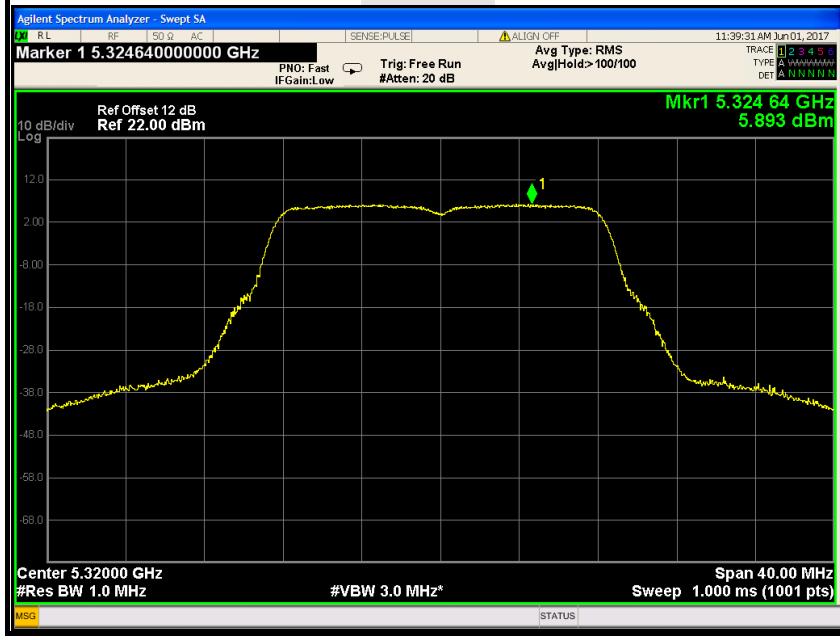


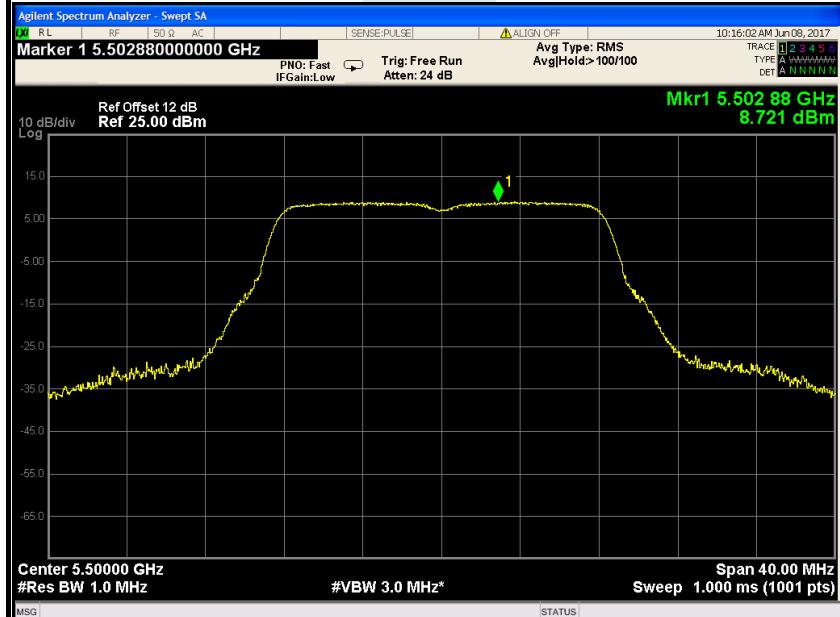
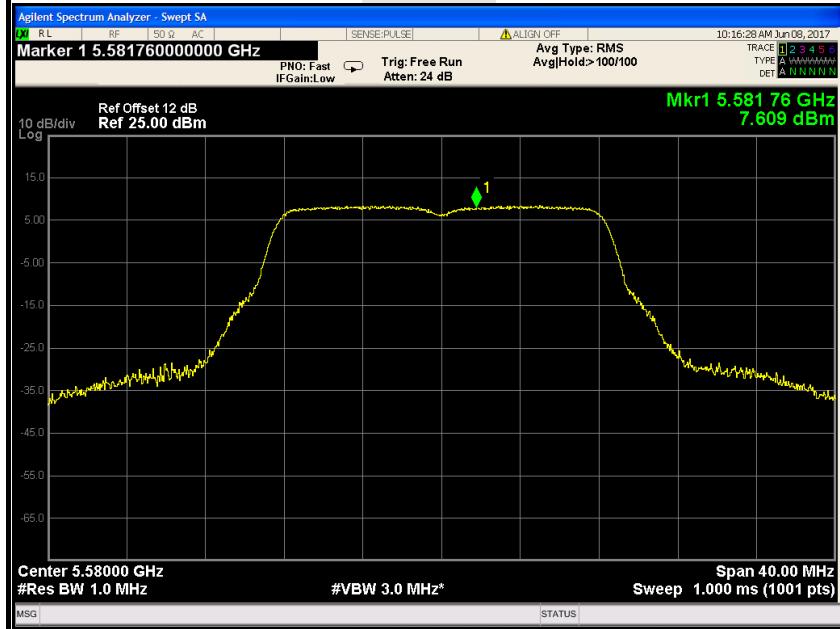
**PPSD (CH Mid)**

Antenna 1

**PPSD (CH High)**

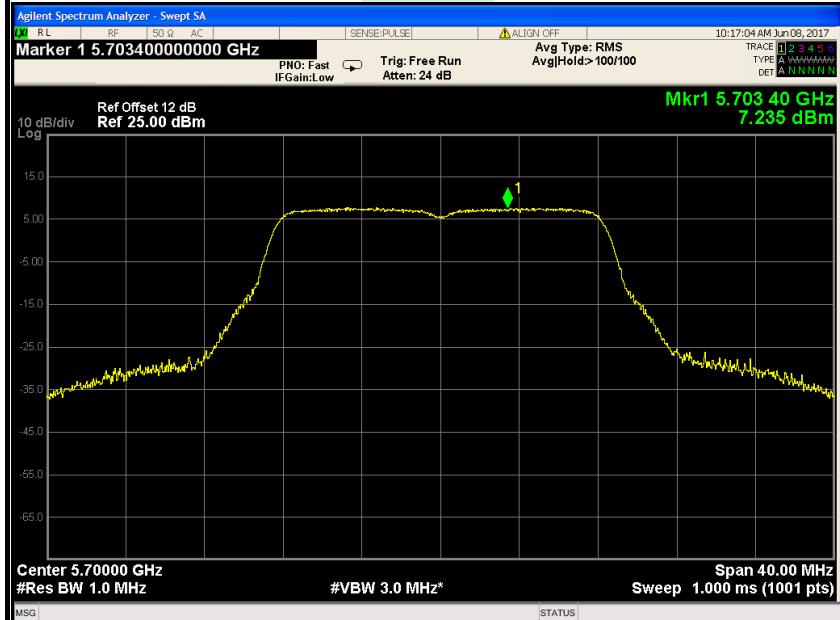
Antenna 1



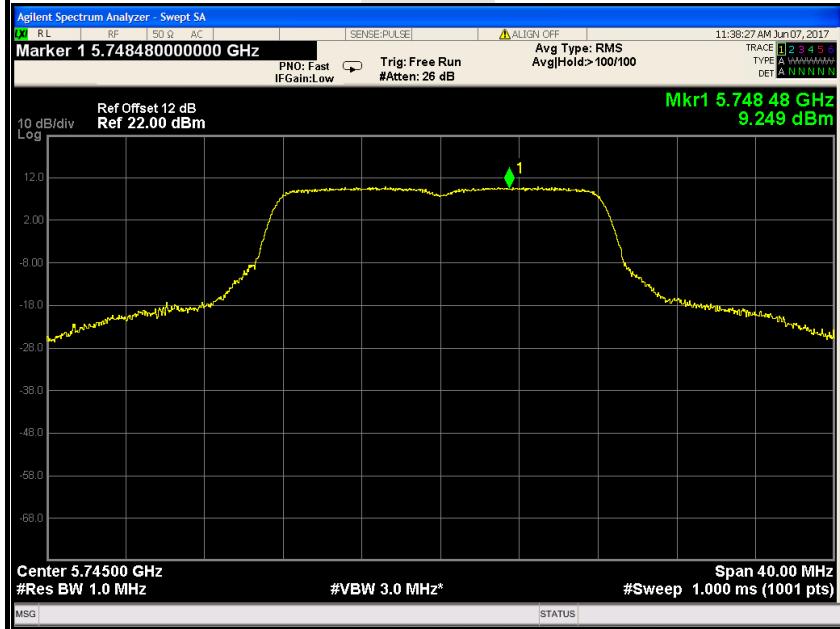
**IEEE 802.11a mode / 5500 ~ 5700MHz****PPSD (CH Low)****Antenna 1****PPSD (CH Mid)****Antenna 1**

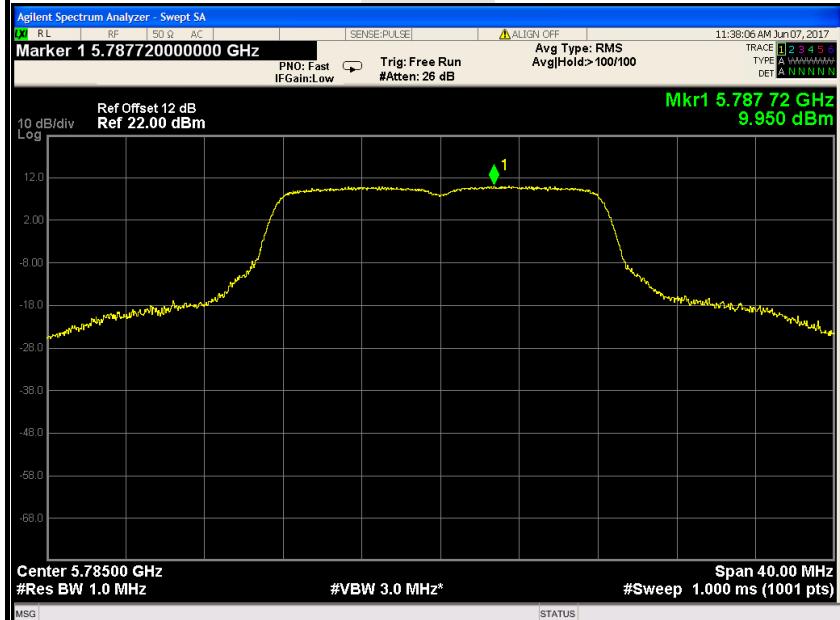
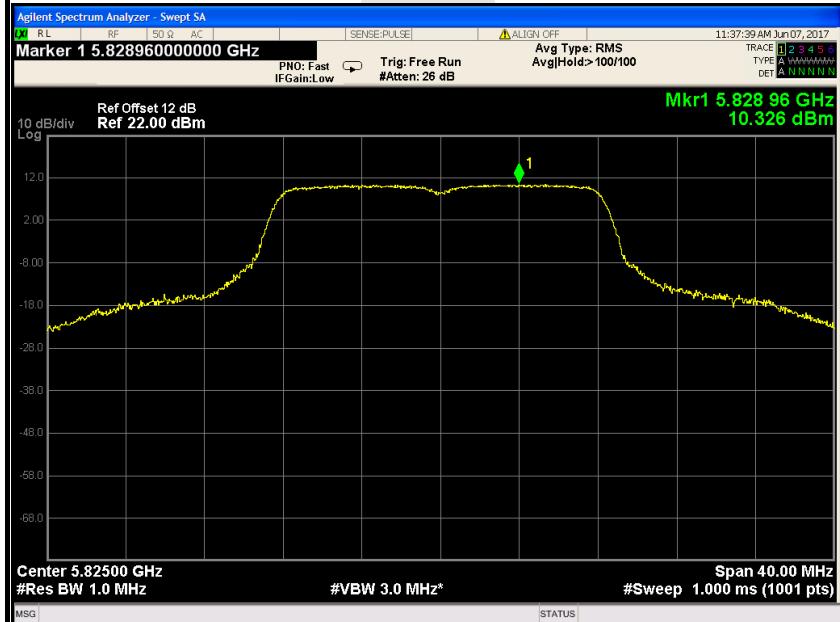
**PPSD (CH High)**

Antenna 1

**IEEE 802.11a mode / 5745 ~ 5825MHz****PPSD (CH Low)**

Antenna 1



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

**IEEE 802.11a mode / 5180 ~ 5240MHz****PPSD (CH Low)**

Antenna 2

**PPSD (CH Mid)**

Antenna 2

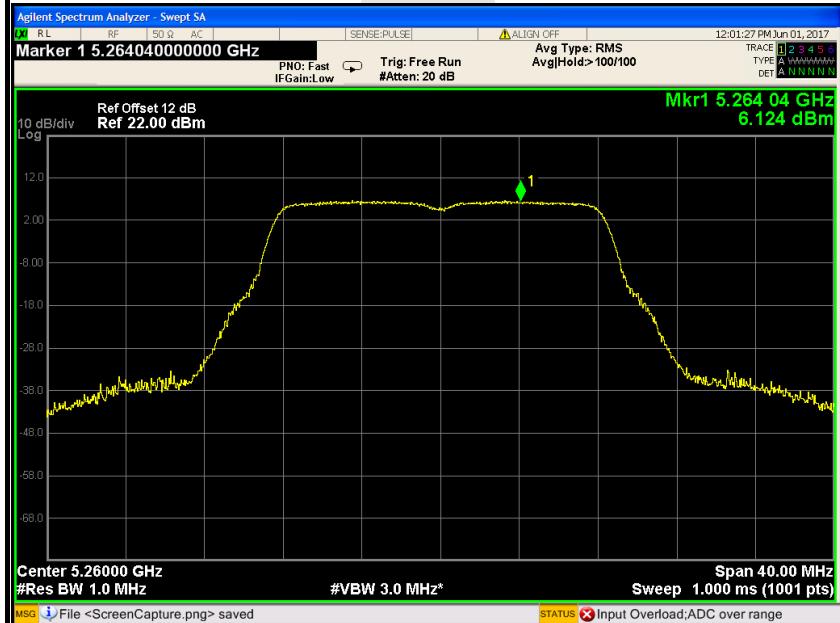


**PPSD (CH High)**

Antenna 2

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

Antenna 2

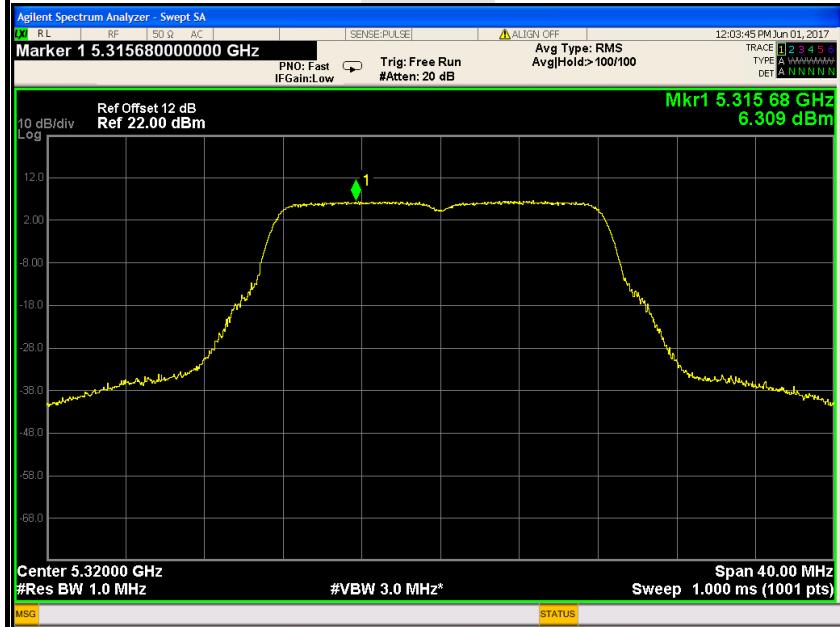


**PPSD (CH Mid)**

Antenna 2

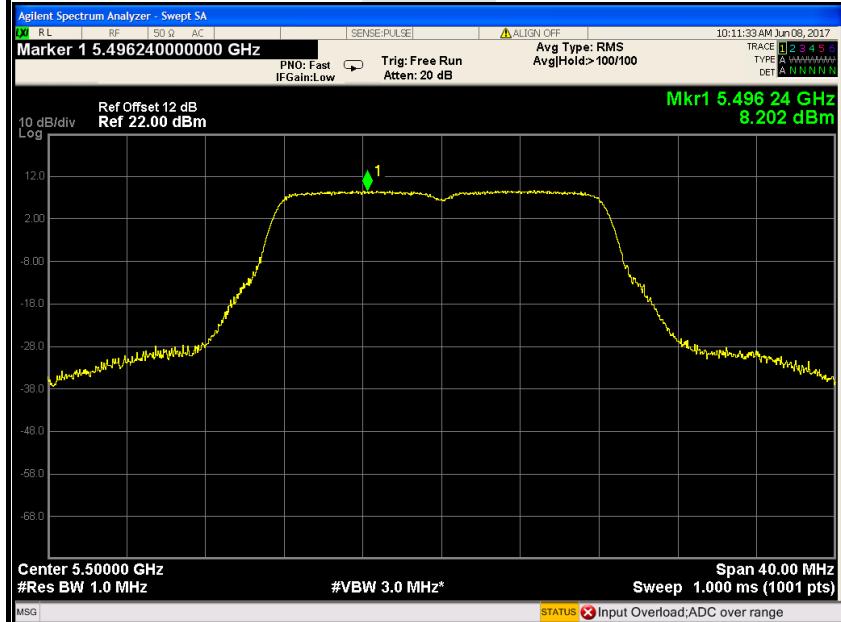
**PPSD (CH High)**

Antenna 2

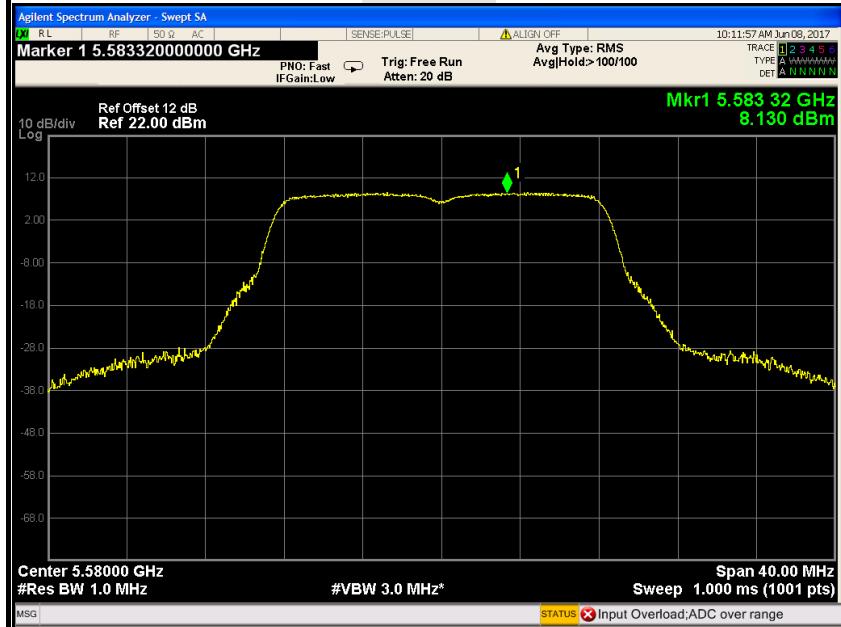


**IEEE 802.11a mode / 5500 ~ 5700MHz****PPSD (CH Low)**

Antenna 2

**PPSD (CH Mid)**

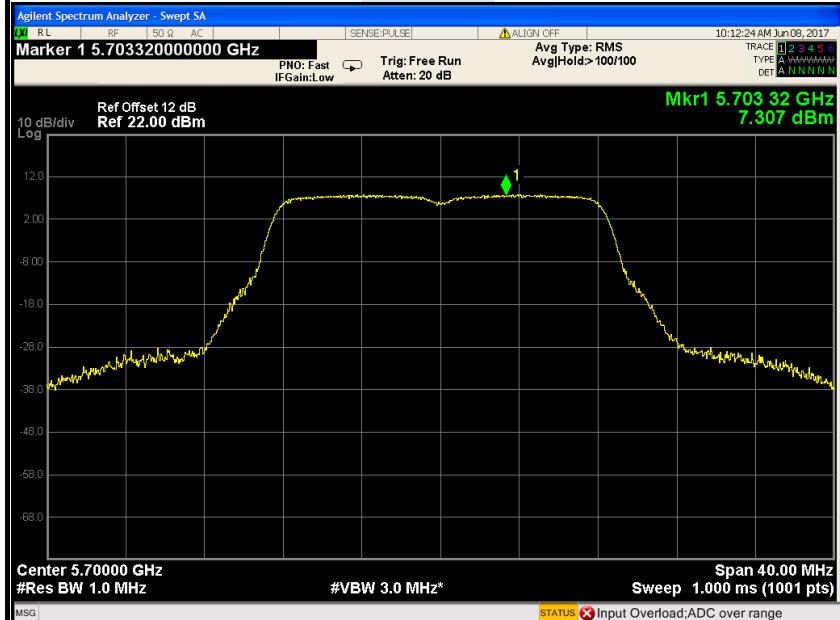
Antenna 2





## PPSD (CH High)

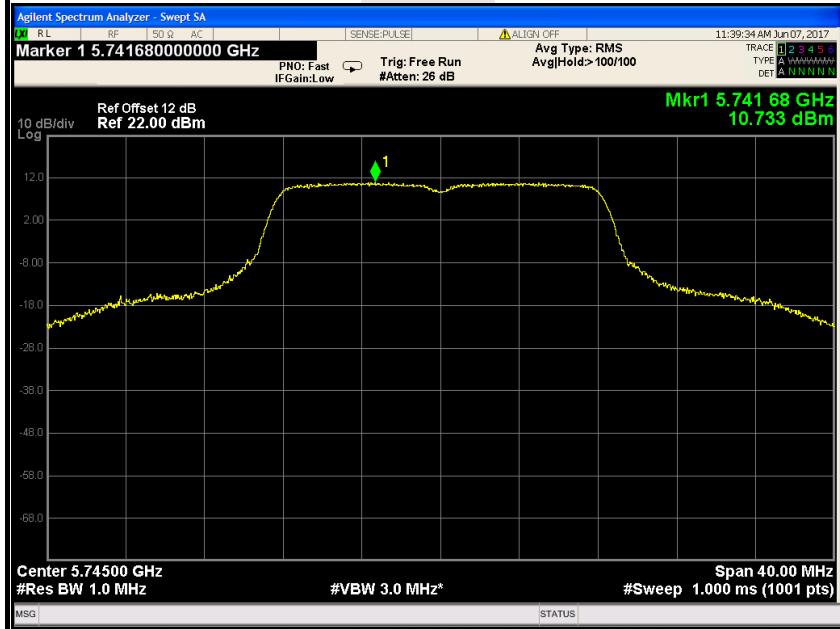
Antenna 2



## IEEE 802.11a mode / 5745 ~ 5825MHz

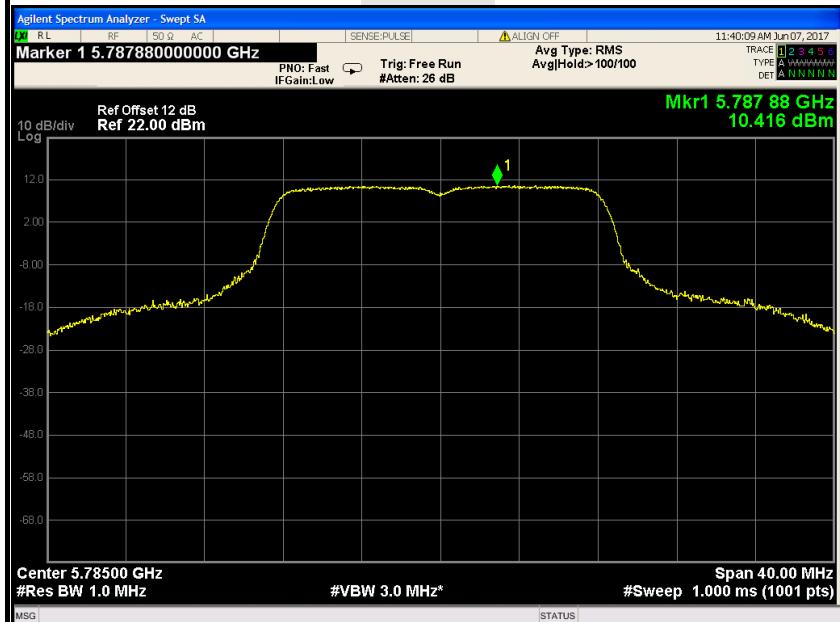
## PPSD (CH Low)

Antenna 2

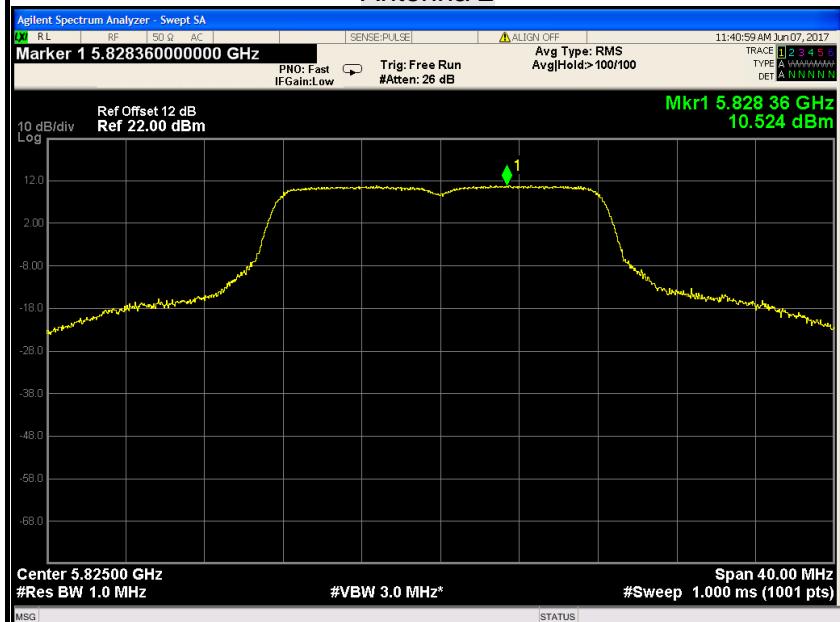


**PPSD (CH Mid)**

Antenna 2

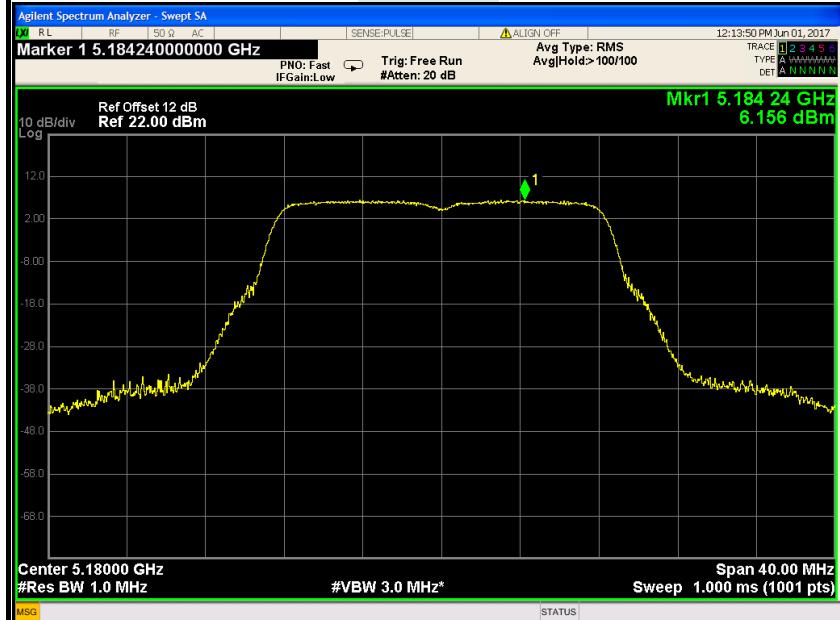
**PPSD (CH High)**

Antenna 2



**IEEE 802.11a mode / 5180 ~ 5240MHz****PPSD (CH Low)**

Antenna 3

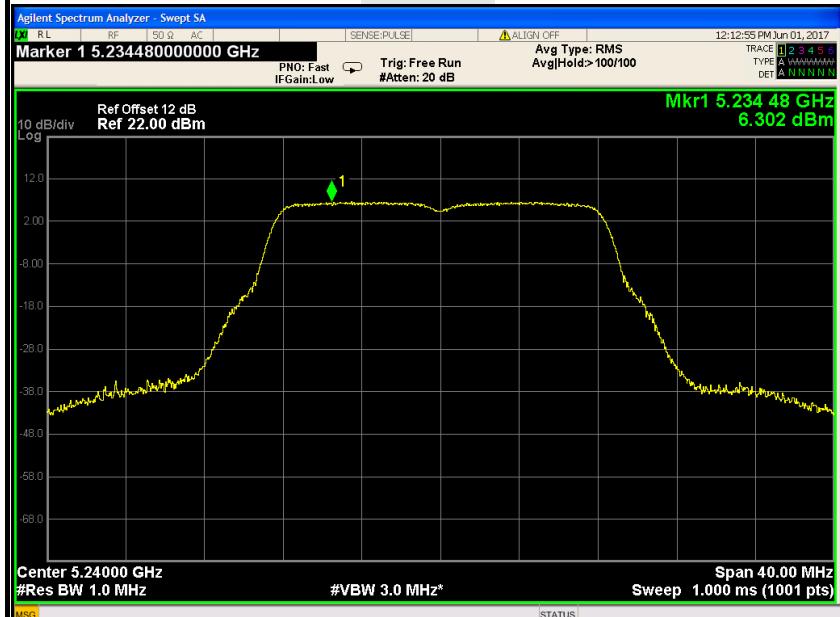
**PPSD (CH Mid)**

Antenna 3



**PPSD (CH High)**

Antenna 3

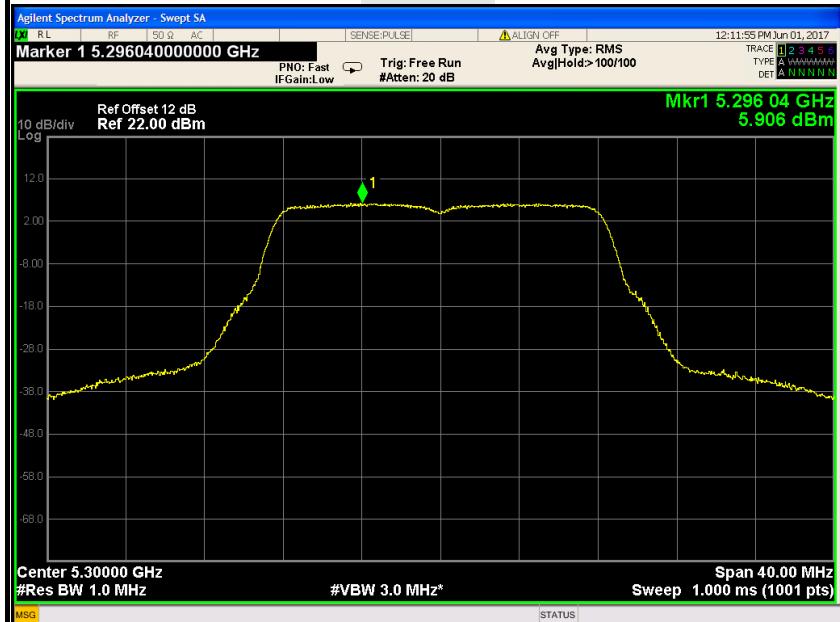
**IEEE 802.11a mode / 5260~ 5320MHz****PPSD (CH Low)**

Antenna 3

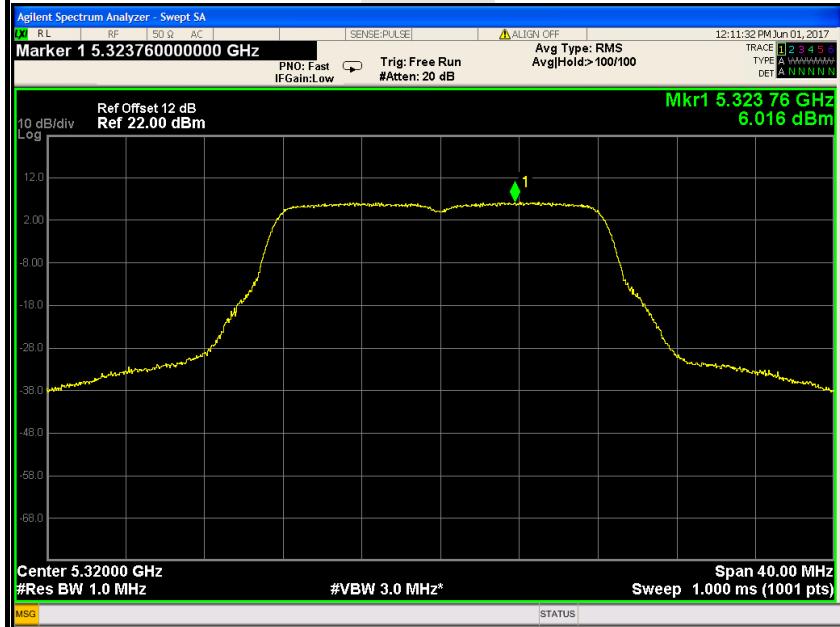


**PPSD (CH Mid)**

Antenna 3

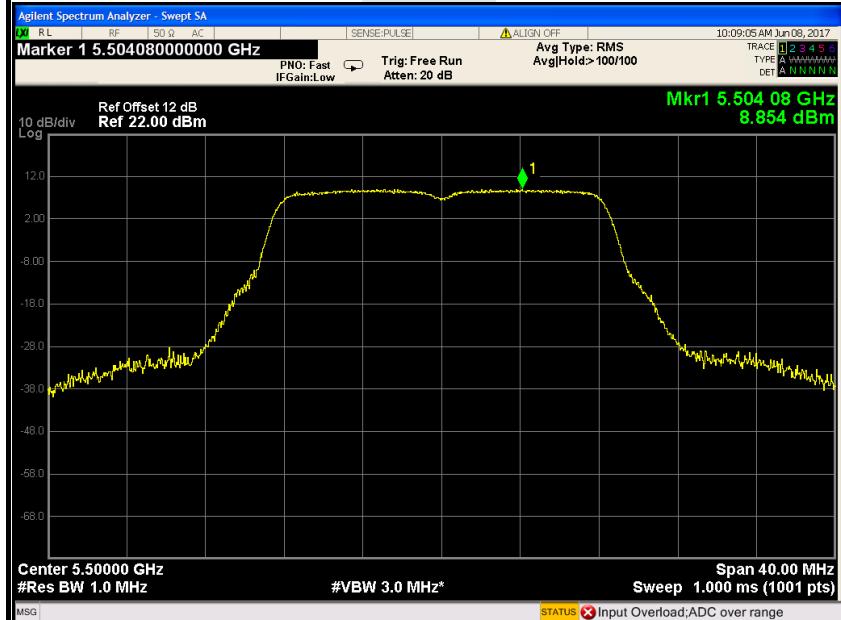
**PPSD (CH High)**

Antenna 3

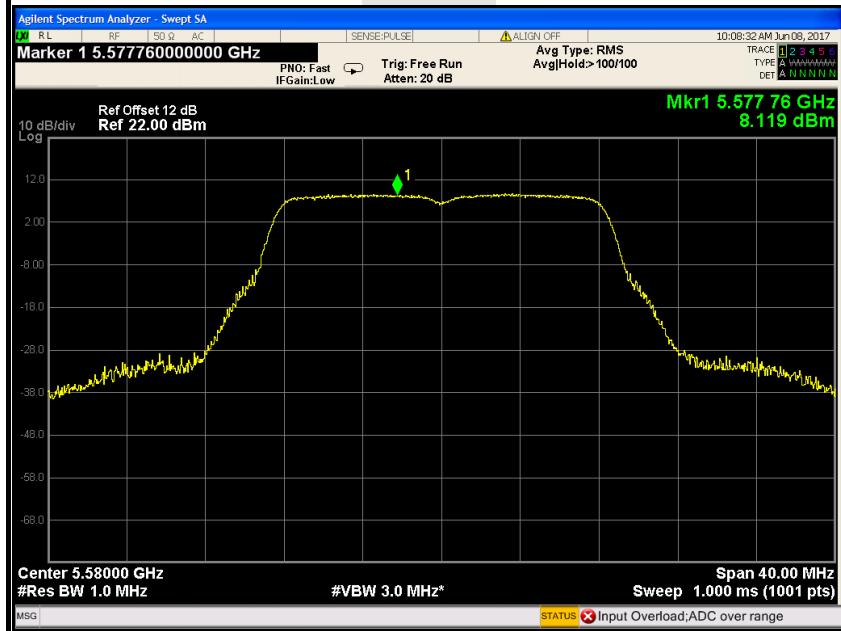


**IEEE 802.11a mode / 5500 ~ 5700MHz****PPSD (CH Low)**

Antenna 3

**PPSD (CH Mid)**

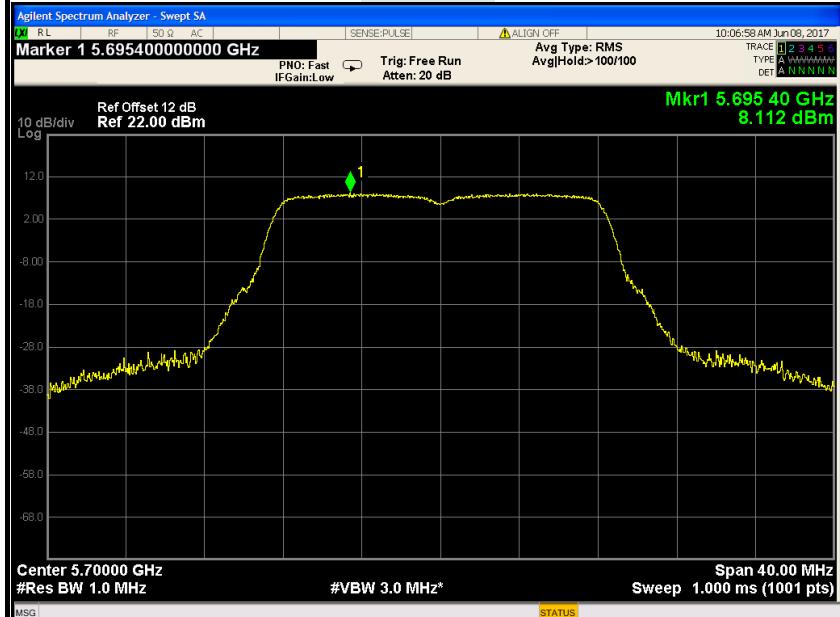
Antenna 3





## PPSD (CH High)

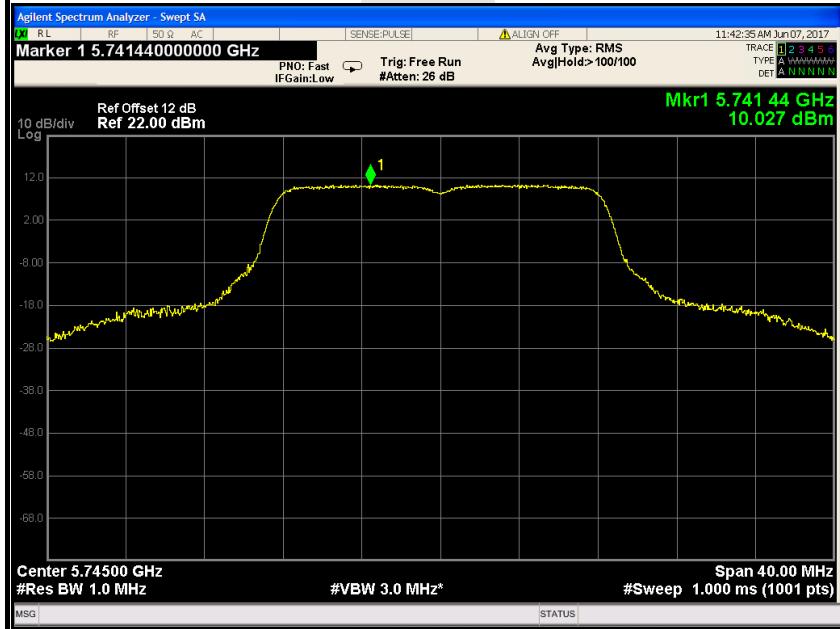
Antenna 3



IEEE 802.11a mode / 5745 ~ 5825MHz

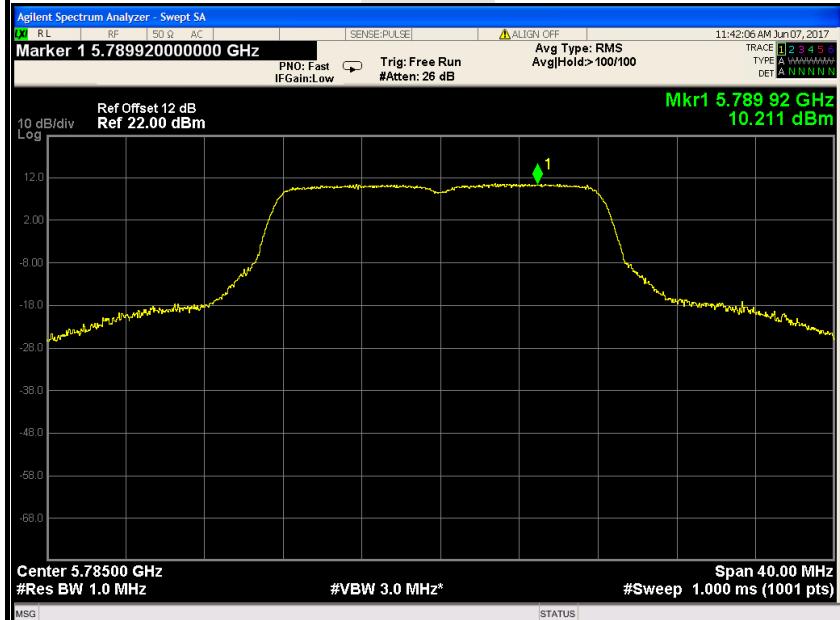
## PPSD (CH Low)

Antenna 3

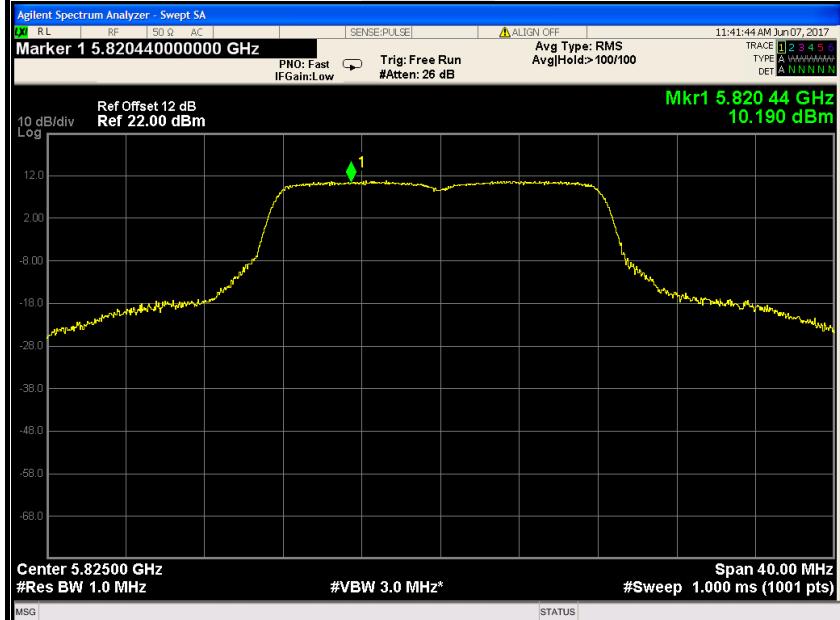


**PPSD (CH Mid)**

Antenna 3

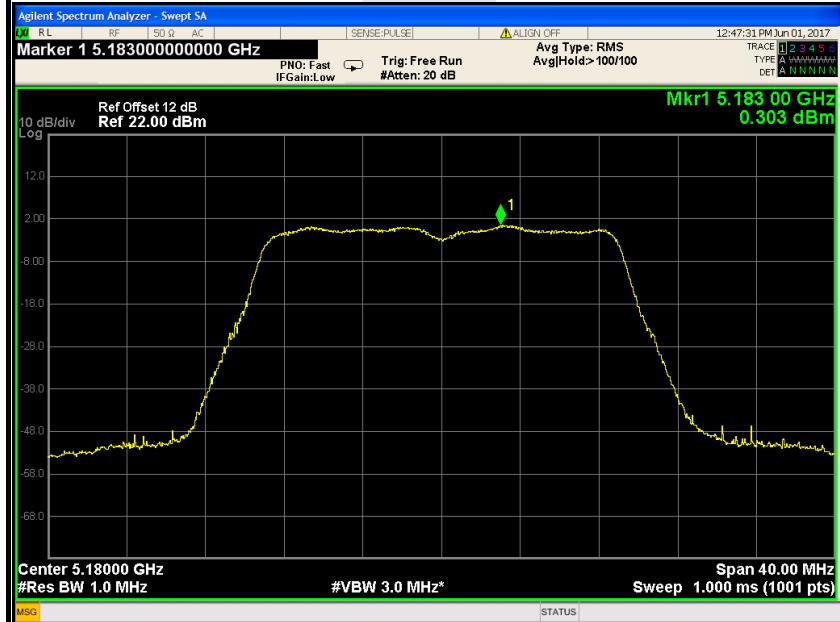
**PPSD (CH High)**

Antenna 3

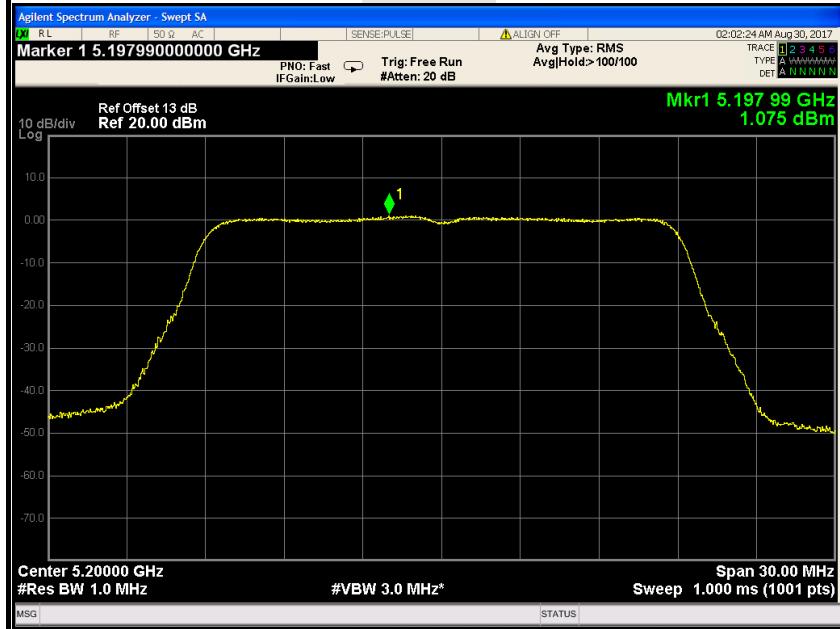


**IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz****PPSD (CH Low)**

Antenna 0

**PPSD (CH Mid)**

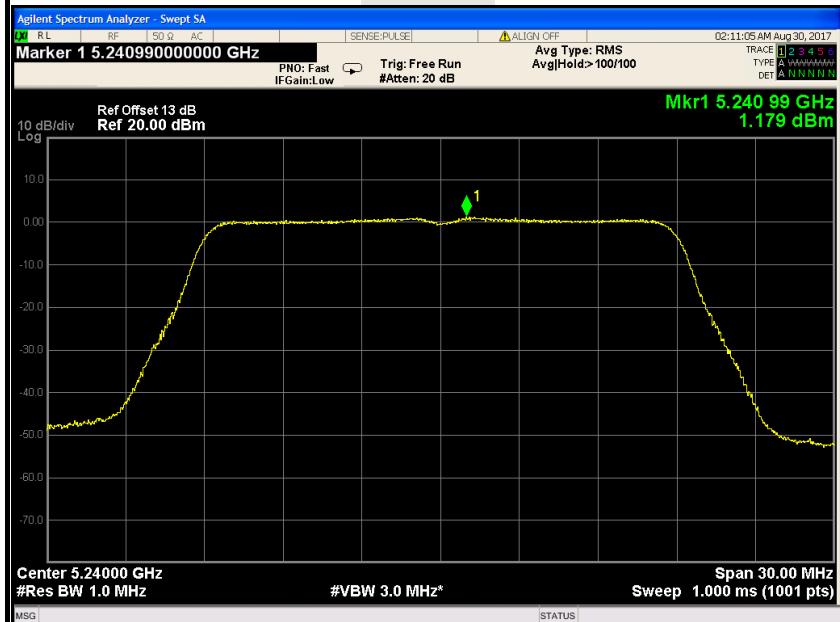
Antenna 0





## PPSD (CH High)

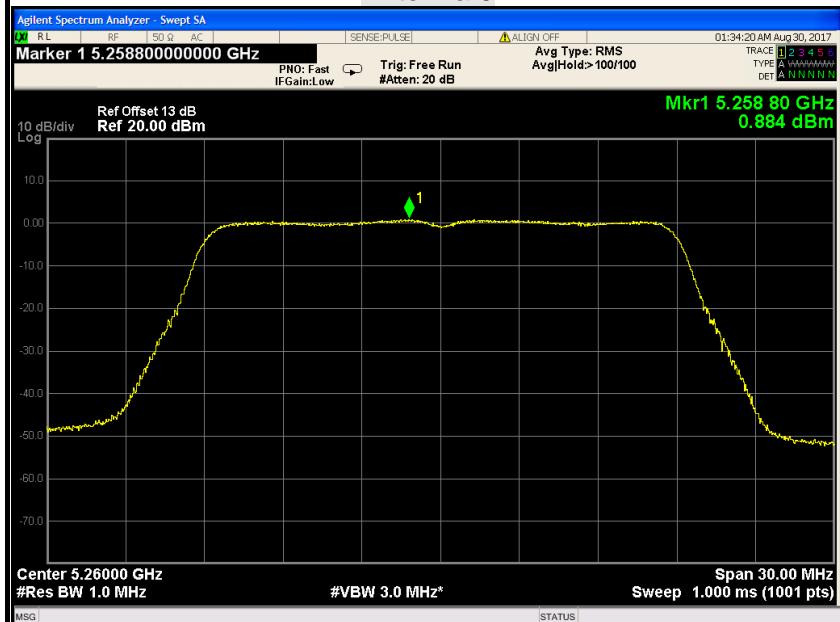
## Antenna 0



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

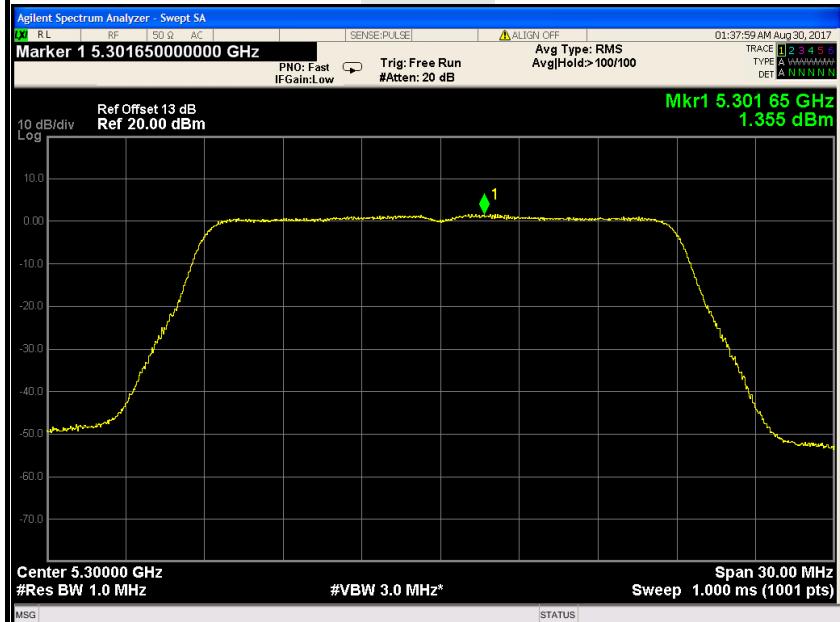
## PPSD (CH Low)

## Antenna 0

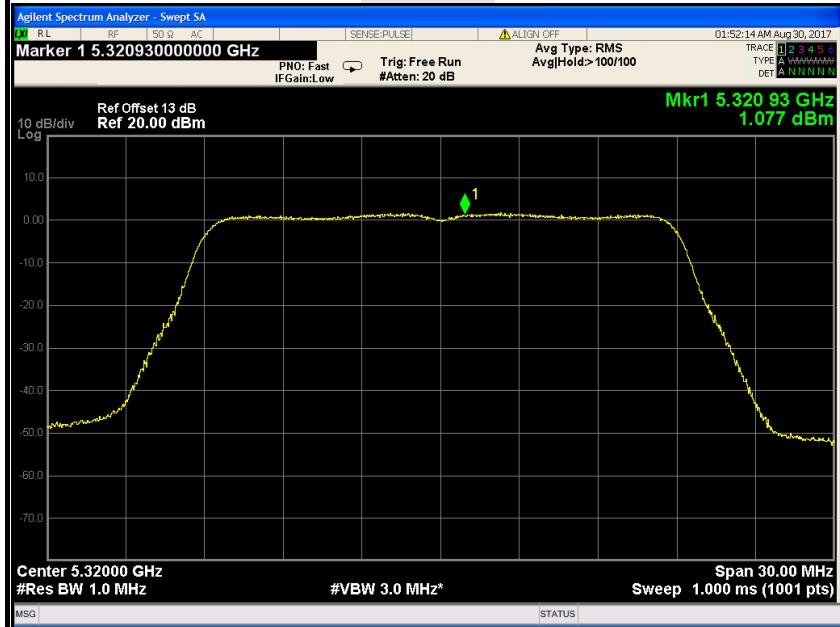


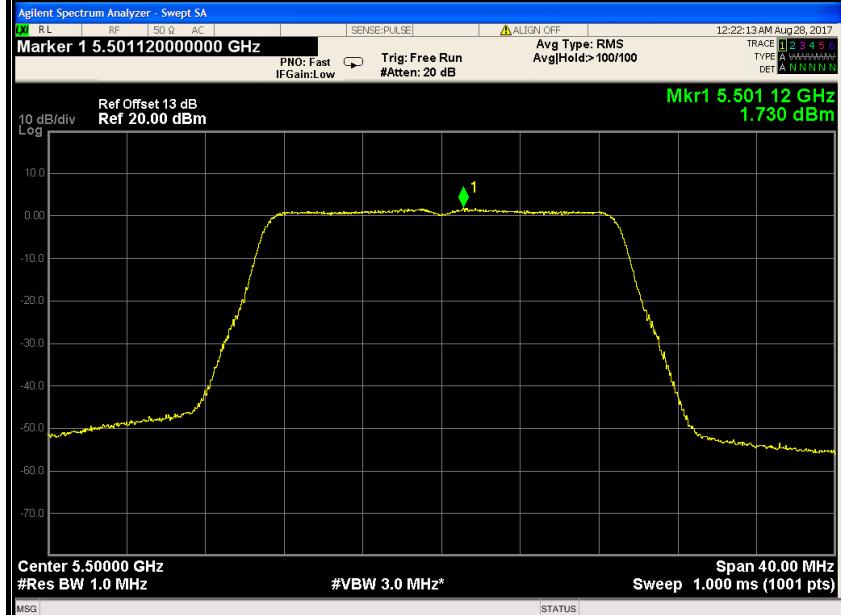
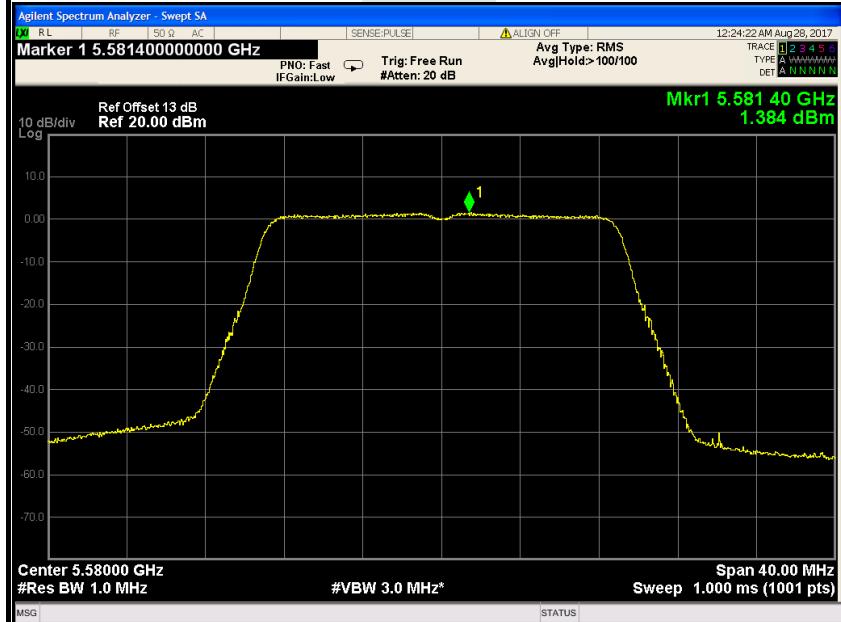
**PPSD (CH Mid)**

Antenna 0

**PPSD (CH High)**

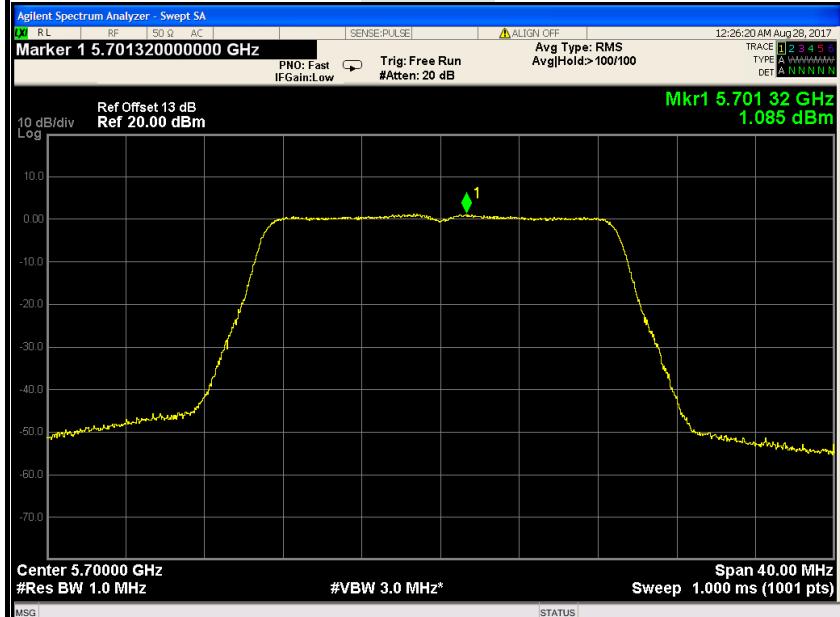
Antenna 0



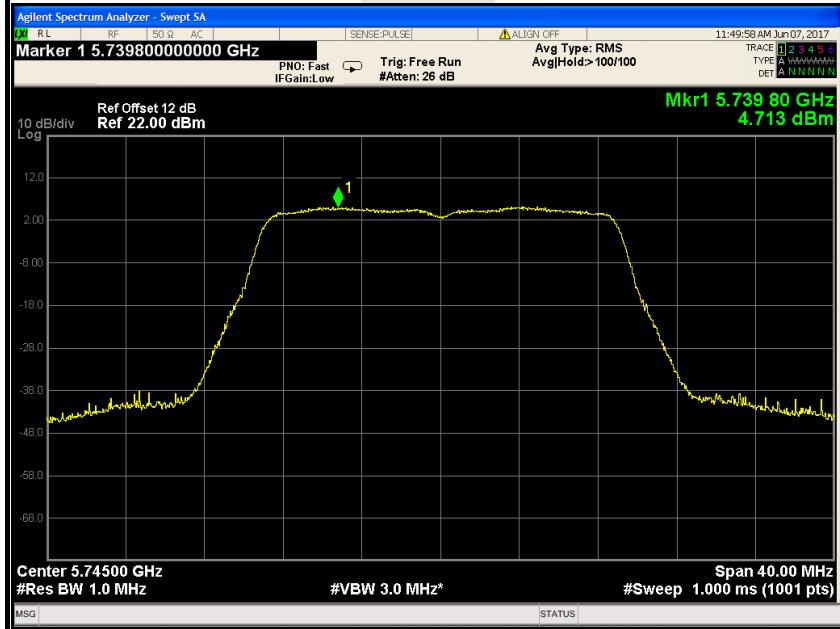
**IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz****PPSD (CH Low)****Antenna 0****PPSD (CH Mid)****Antenna 0**

**PPSD (CH High)**

Antenna 0

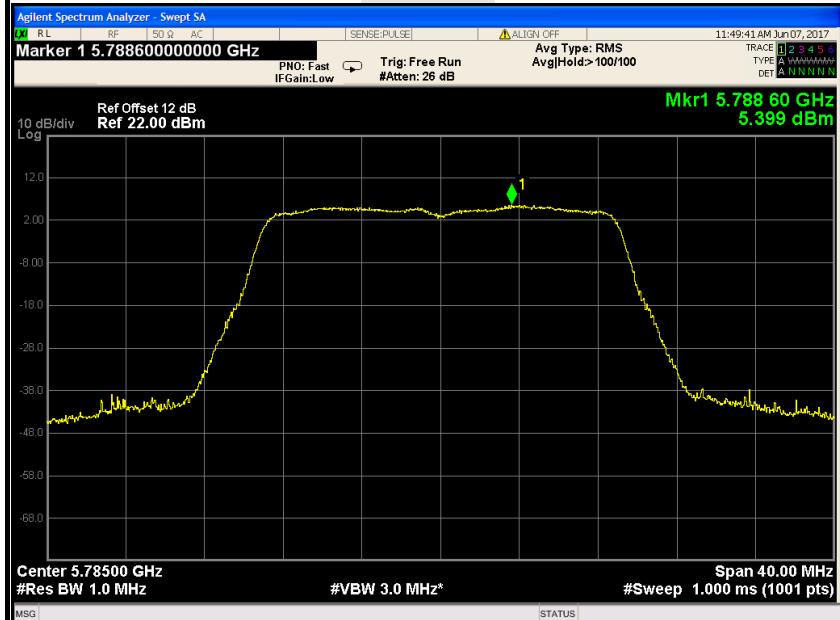
**IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz****PPSD (CH Low)**

Antenna 0

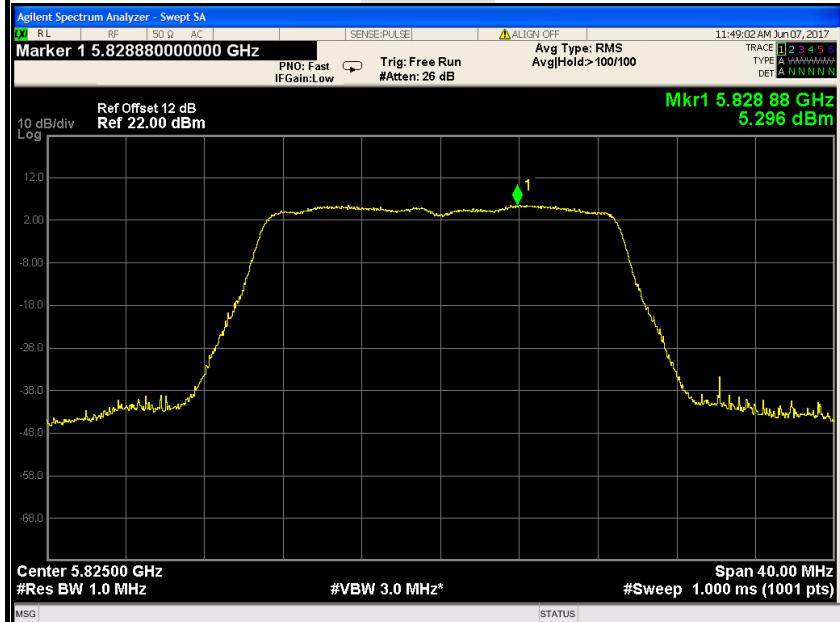


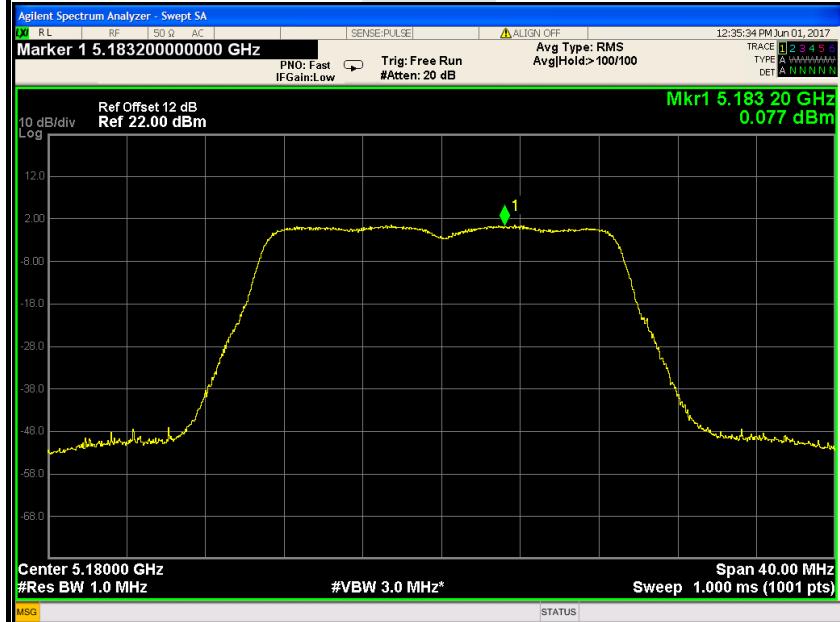
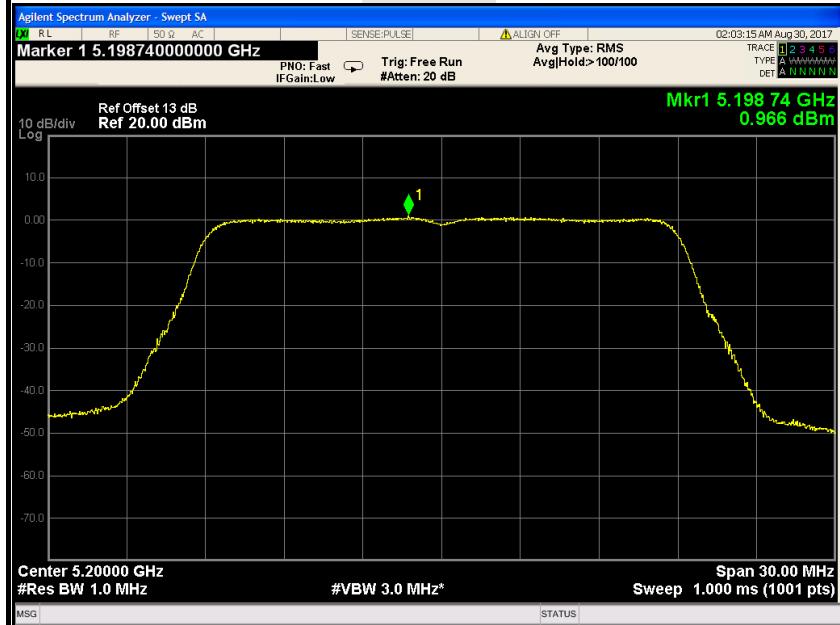
**PPSD (CH Mid)**

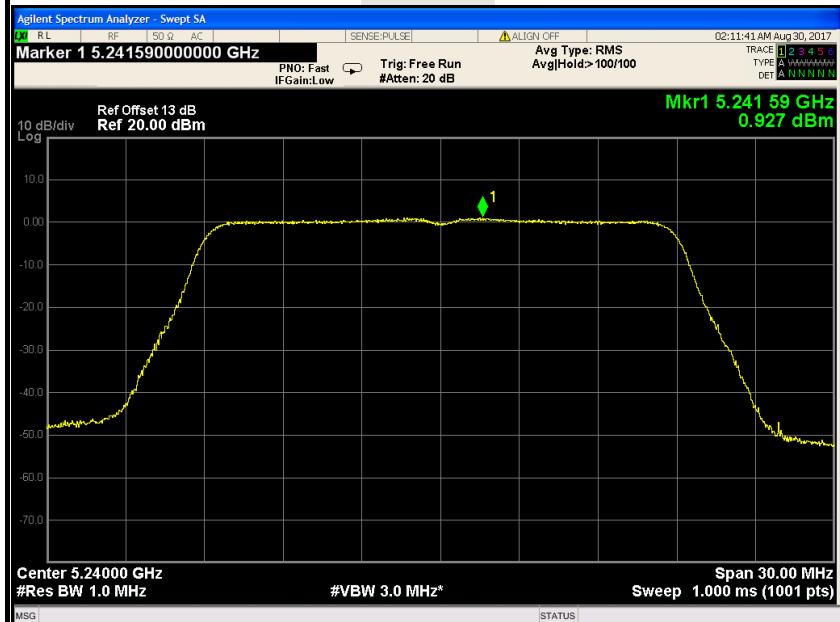
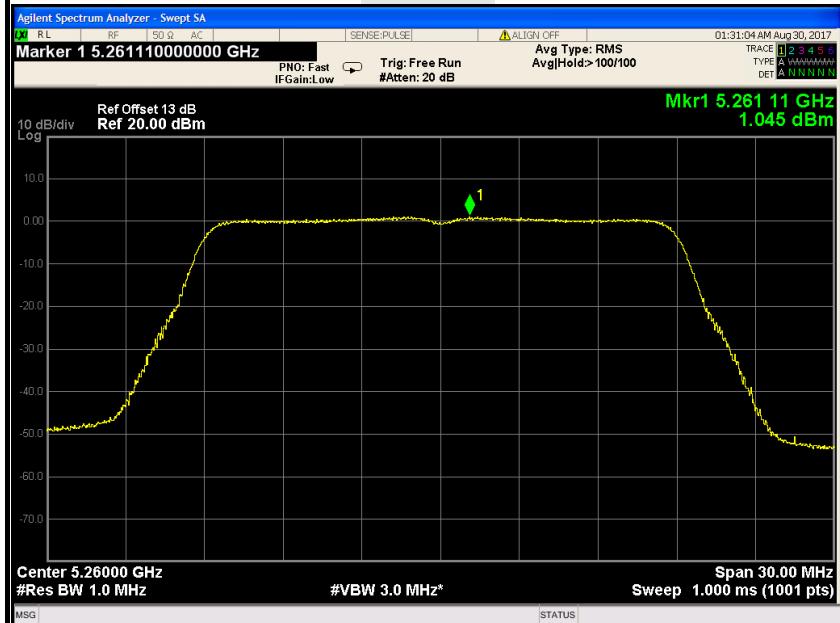
Antenna 0

**PPSD (CH High)**

Antenna 0

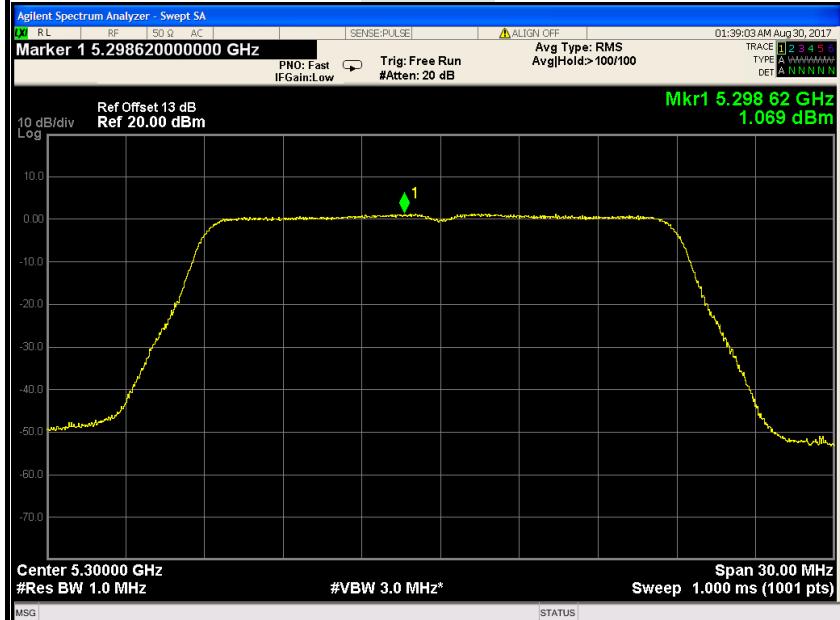


**IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz****PPSD (CH Low)****Antenna 1****PPSD (CH Mid)****Antenna 1**

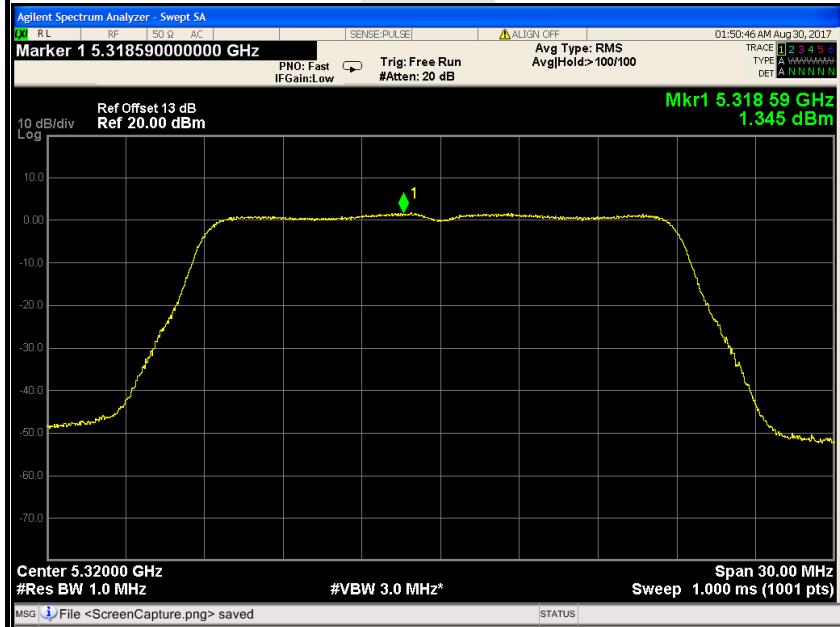
**PPSD (CH High)****Antenna 1****IEEE 802.11n HT 20 MHz mode / 5260~5320MHz****PPSD (CH Low)****Antenna 1**

**PPSD (CH Mid)**

Antenna 1

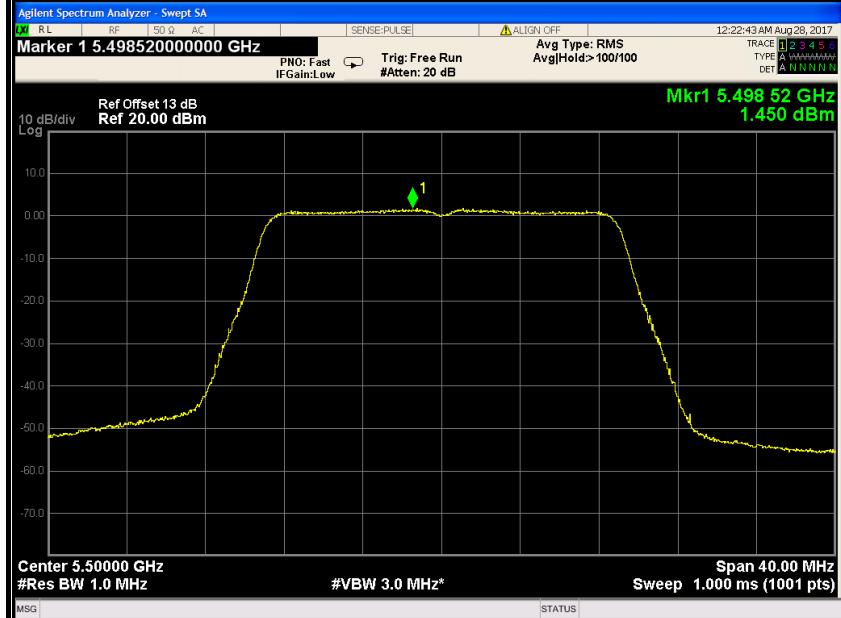
**PPSD (CH High)**

Antenna 1

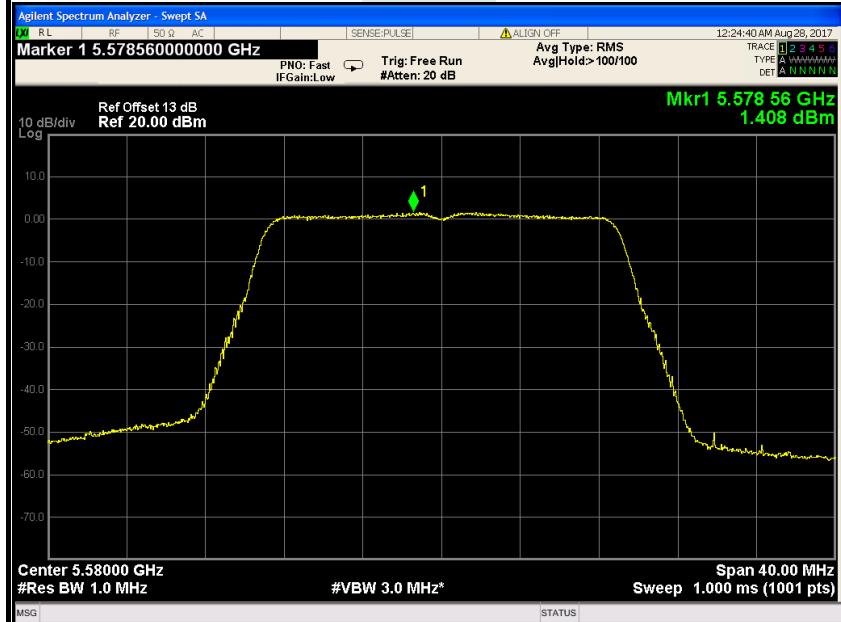


**IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz****PPSD (CH Low)**

Antenna 1

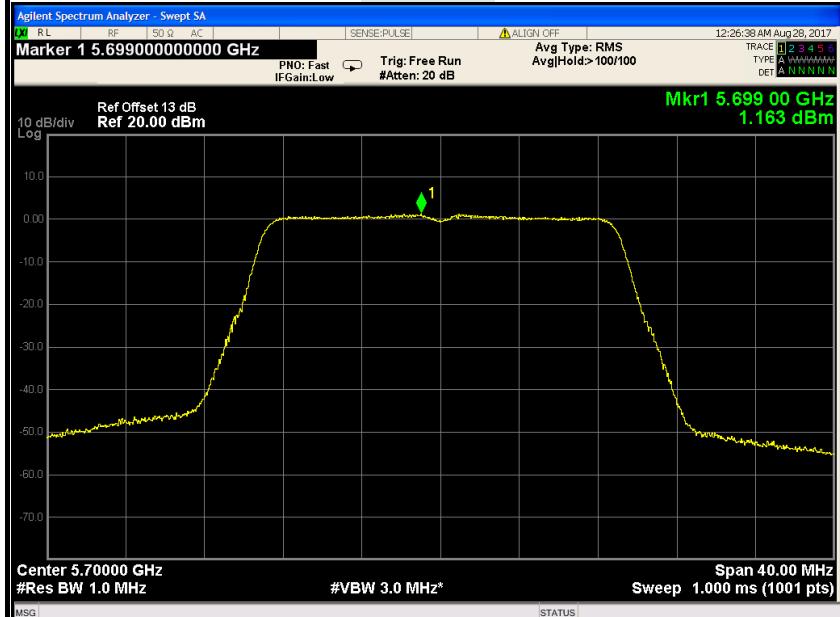
**PPSD (CH Mid)**

Antenna 1

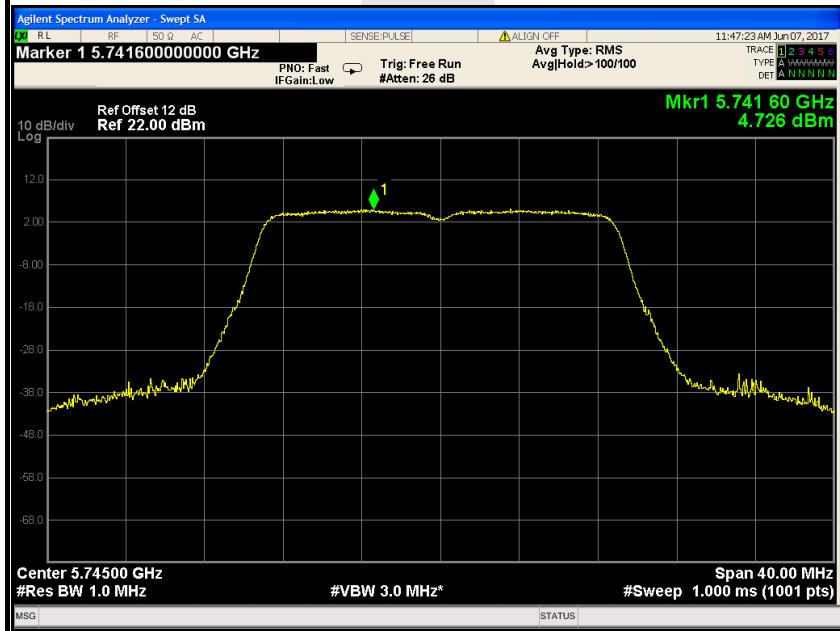


**PPSD (CH High)**

Antenna 1

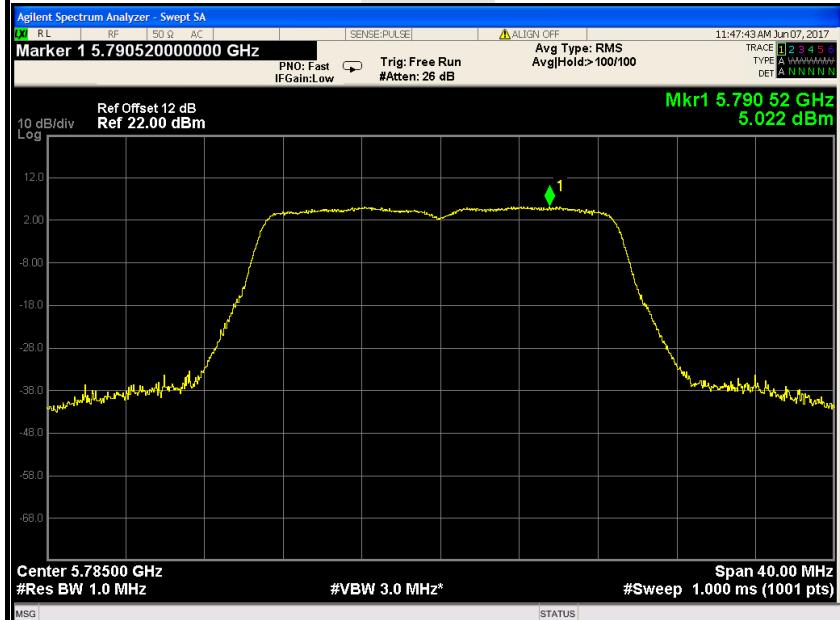
**IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz****PPSD (CH Low)**

Antenna 1

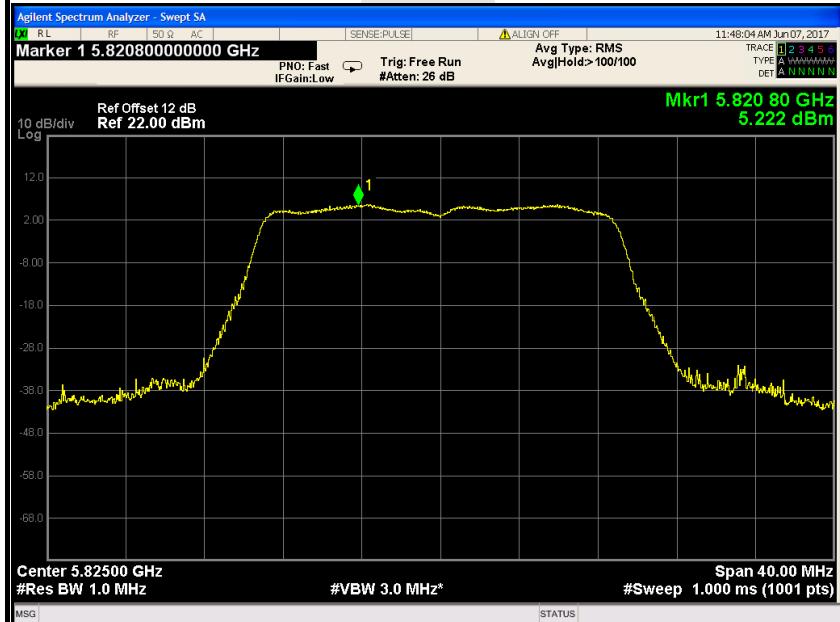


**PPSD (CH Mid)**

Antenna 1

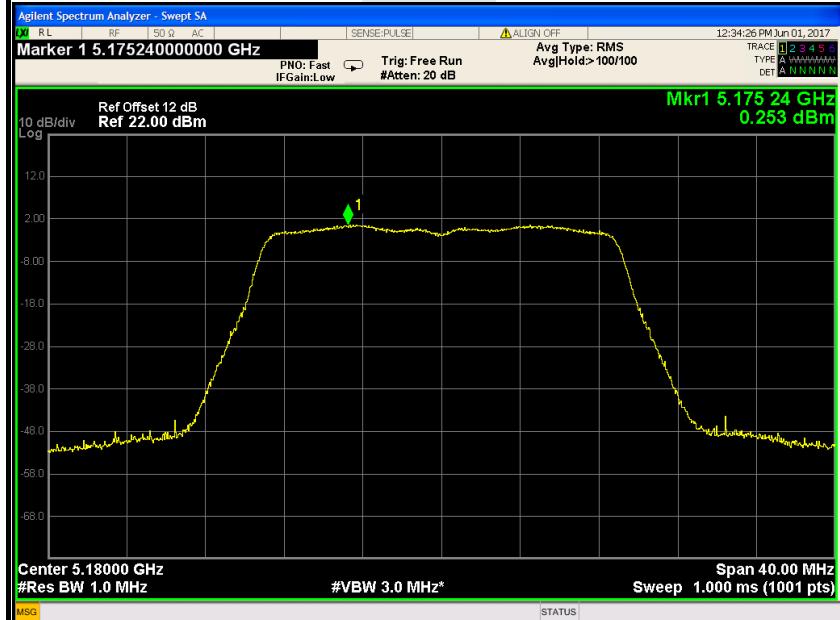
**PPSD (CH High)**

Antenna 1

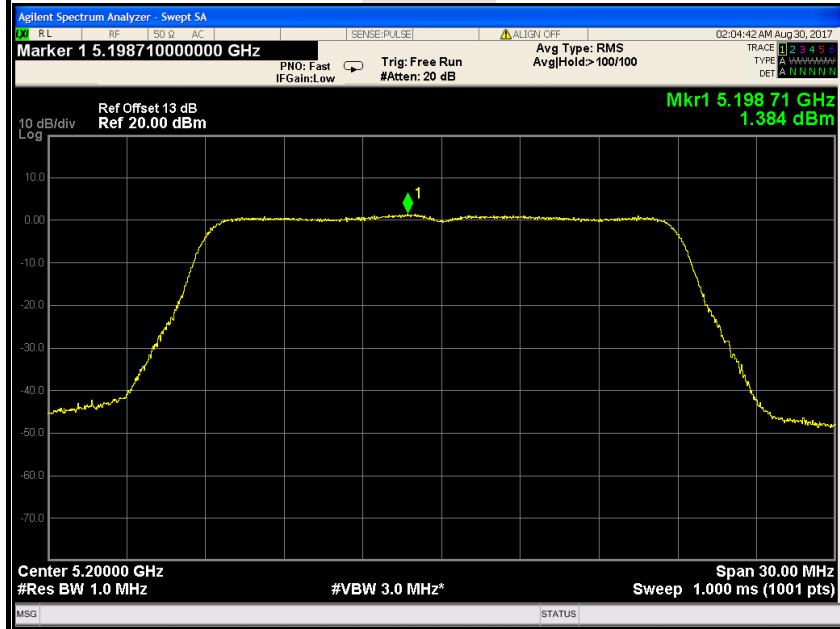


**IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz****PPSD (CH Low)**

Antenna 2

**PPSD (CH Mid)**

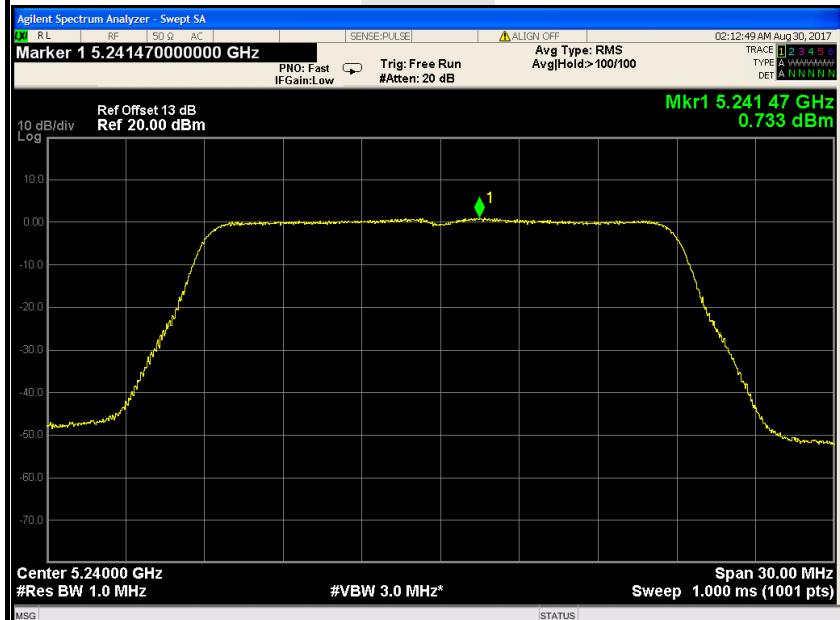
Antenna 2





## PPSD (CH High)

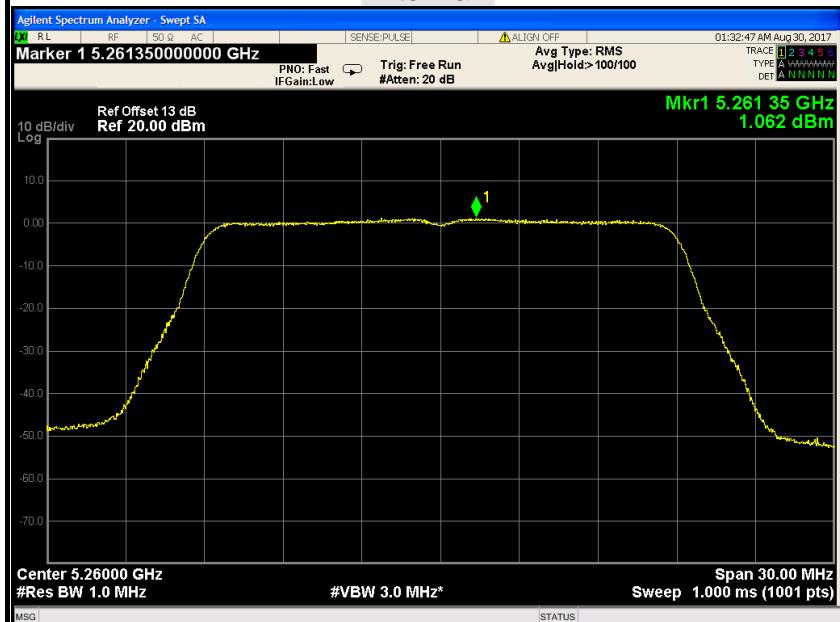
Antenna 2



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

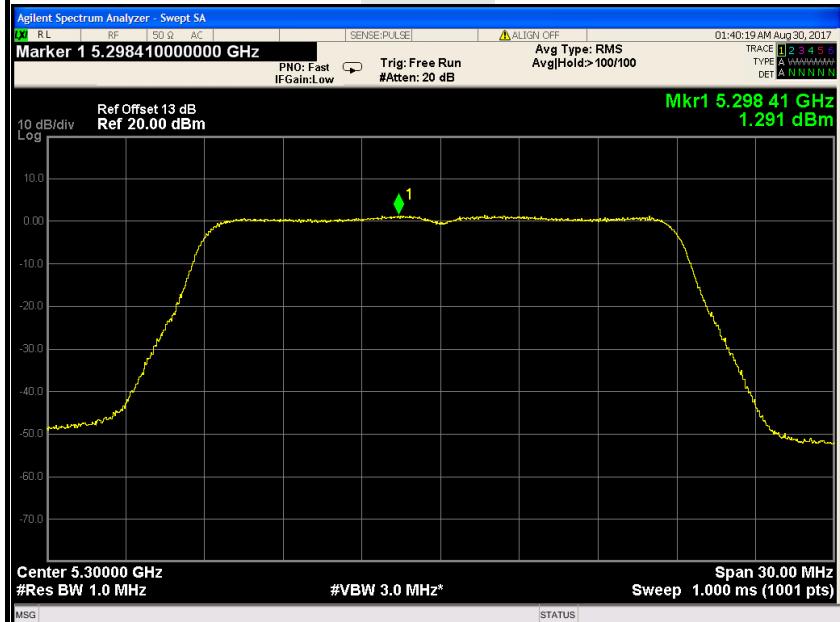
## PPSD (CH Low)

Antenna 2

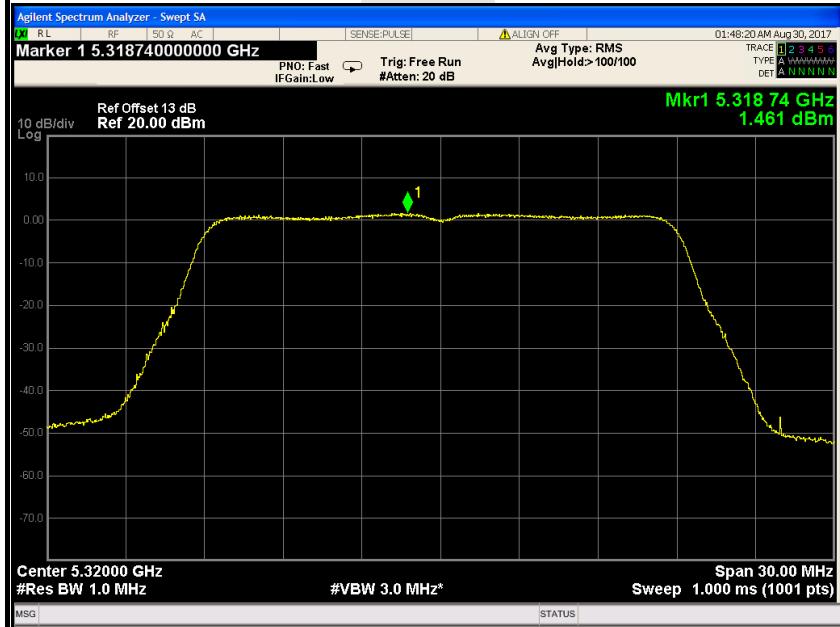


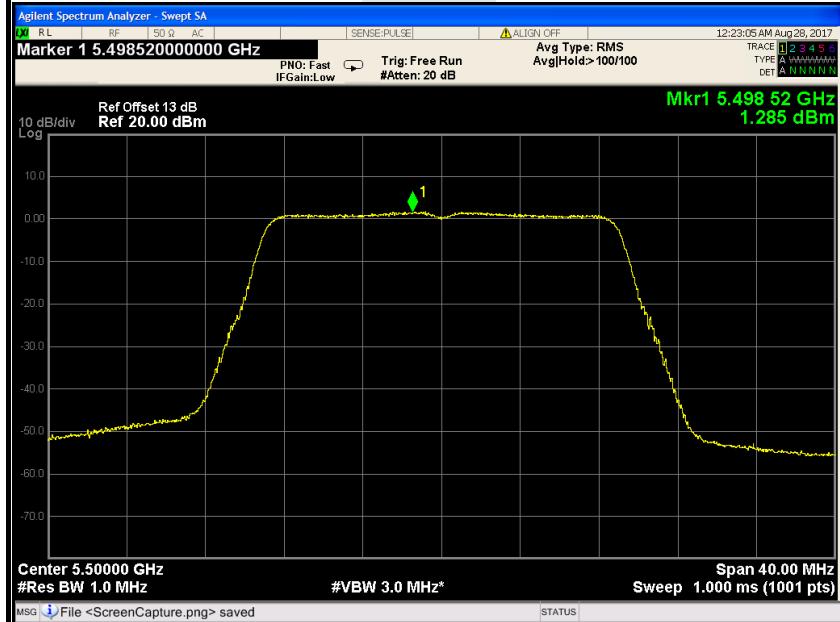
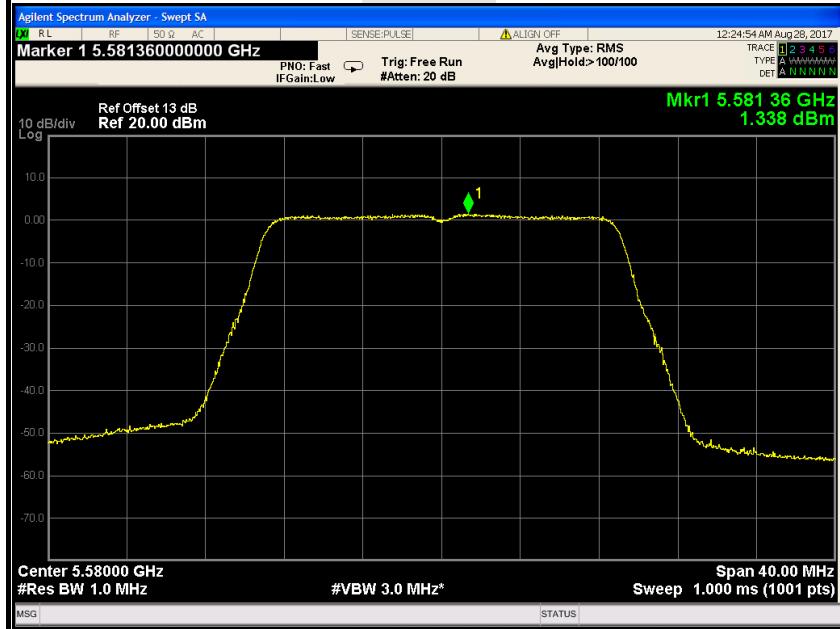
**PPSD (CH Mid)**

Antenna 2

**PPSD (CH High)**

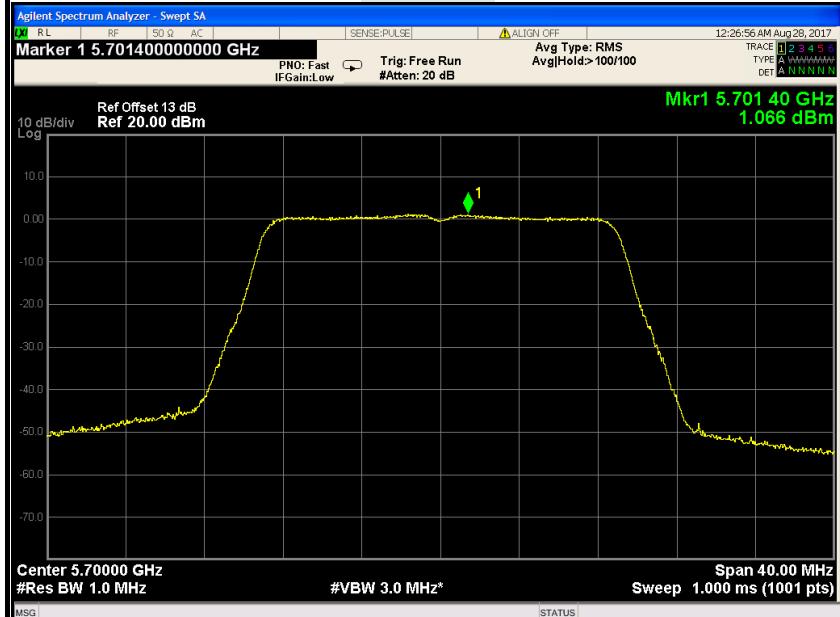
Antenna 2



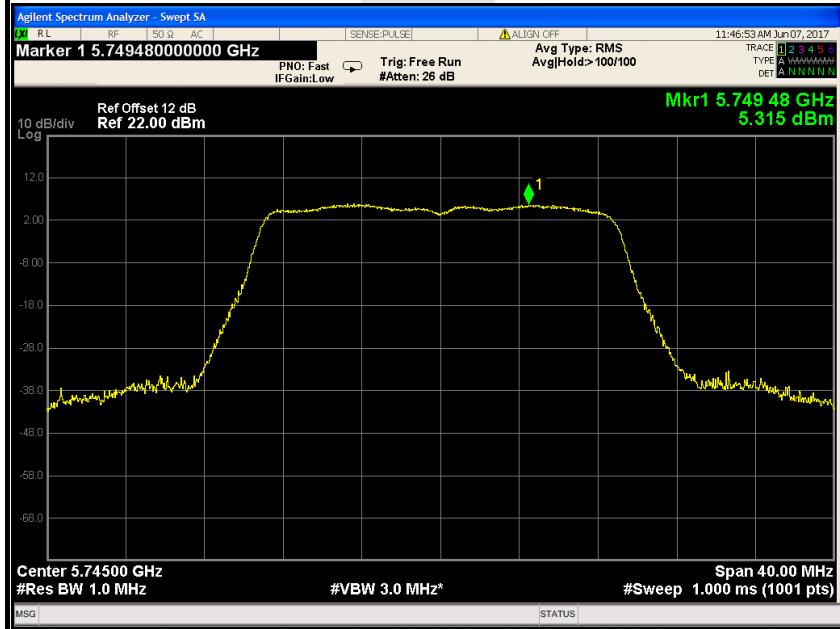
**IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz****PPSD (CH Low)****Antenna 2****PPSD (CH Mid)****Antenna 2**

**PPSD (CH High)**

Antenna 2

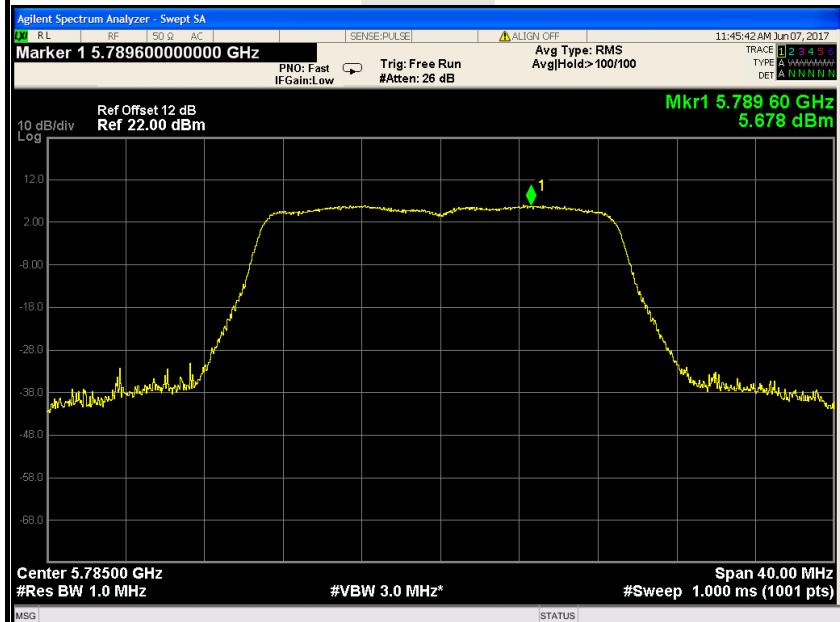
**IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz****PPSD (CH Low)**

Antenna 2

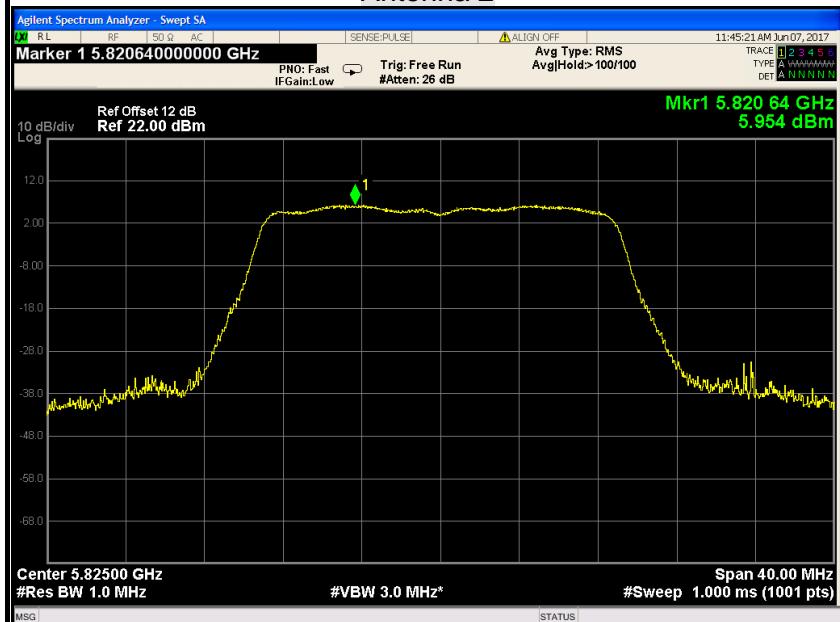


**PPSD (CH Mid)**

Antenna 2

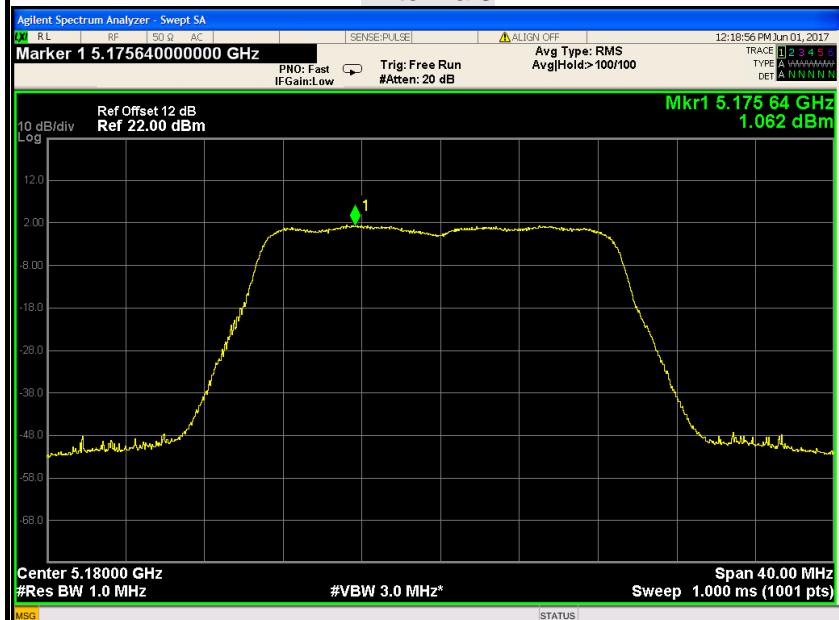
**PPSD (CH High)**

Antenna 2



**IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz****PPSD (CH Low)**

Antenna 3

**PPSD (CH Mid)**

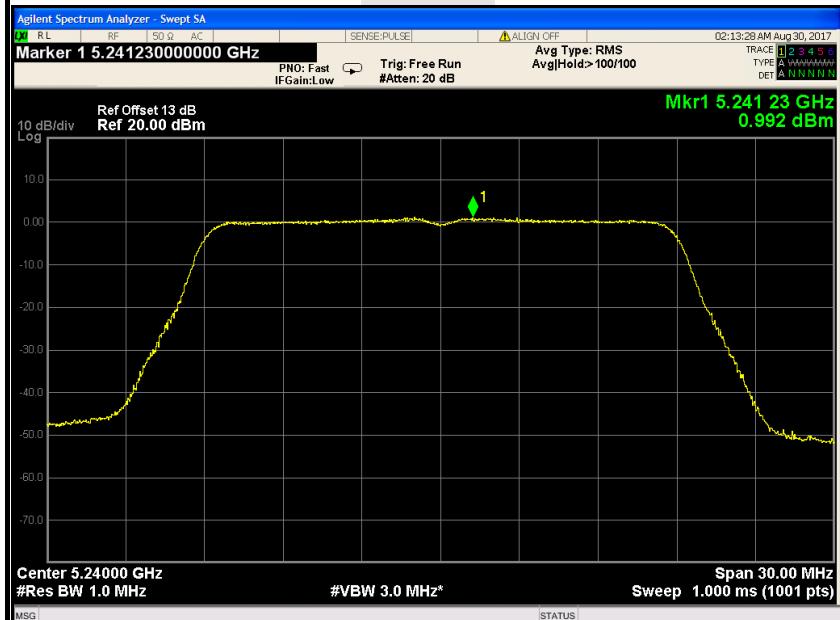
Antenna 3





## PPSD (CH High)

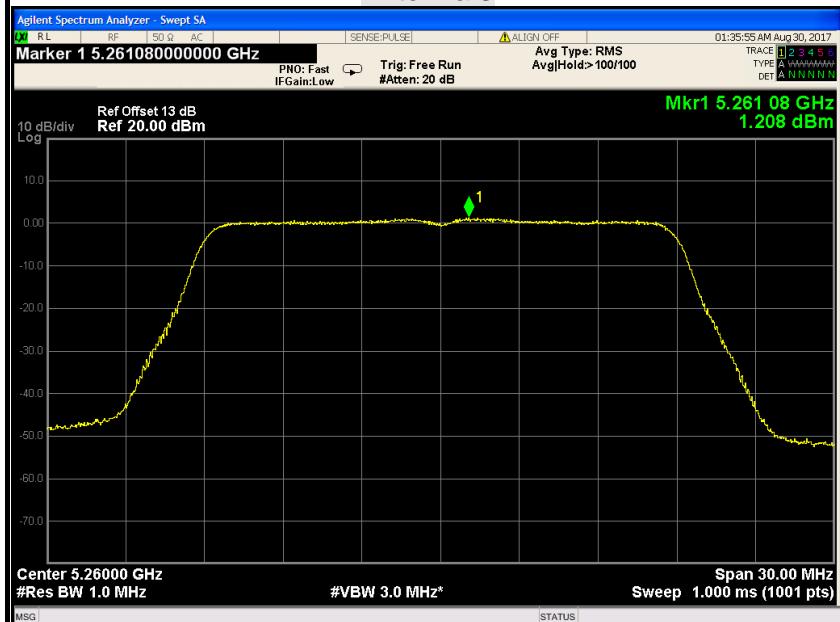
## Antenna 3



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

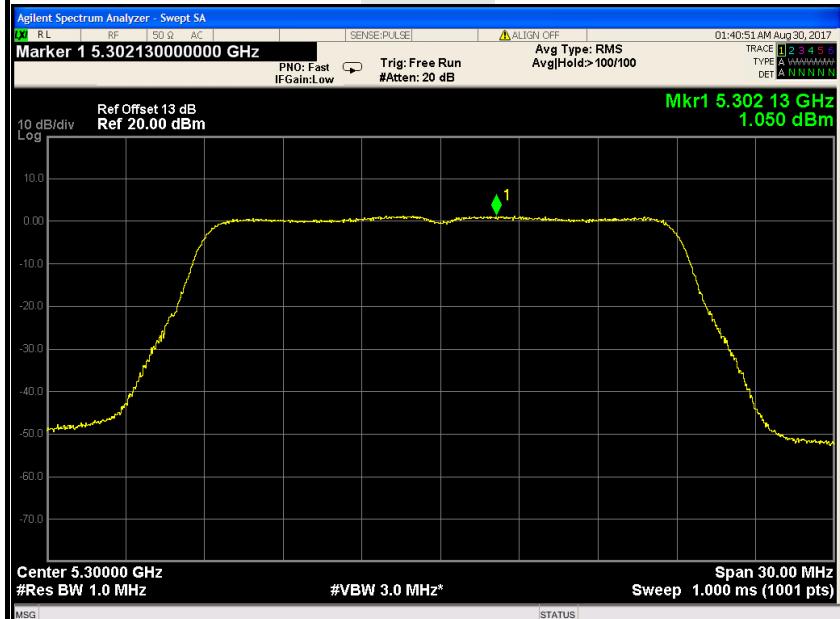
## PPSD (CH Low)

## Antenna 3

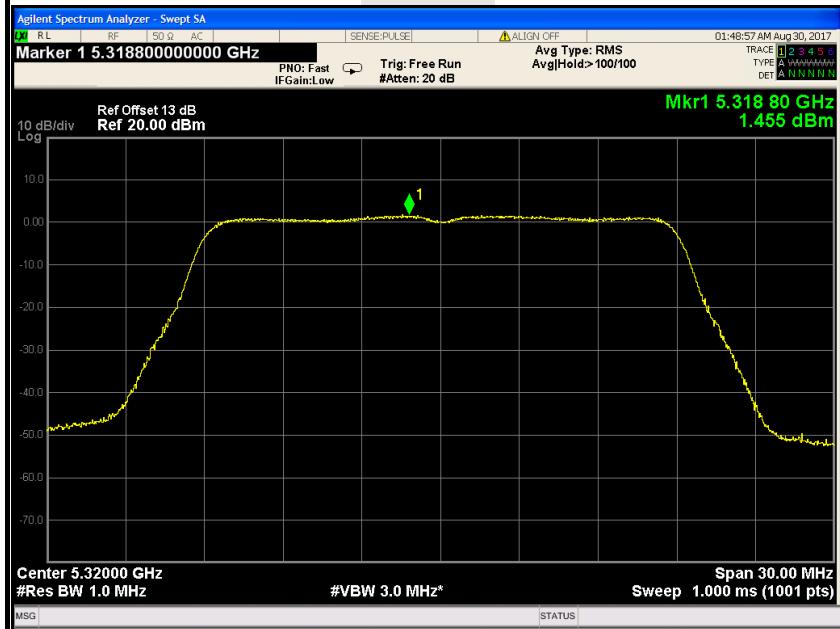


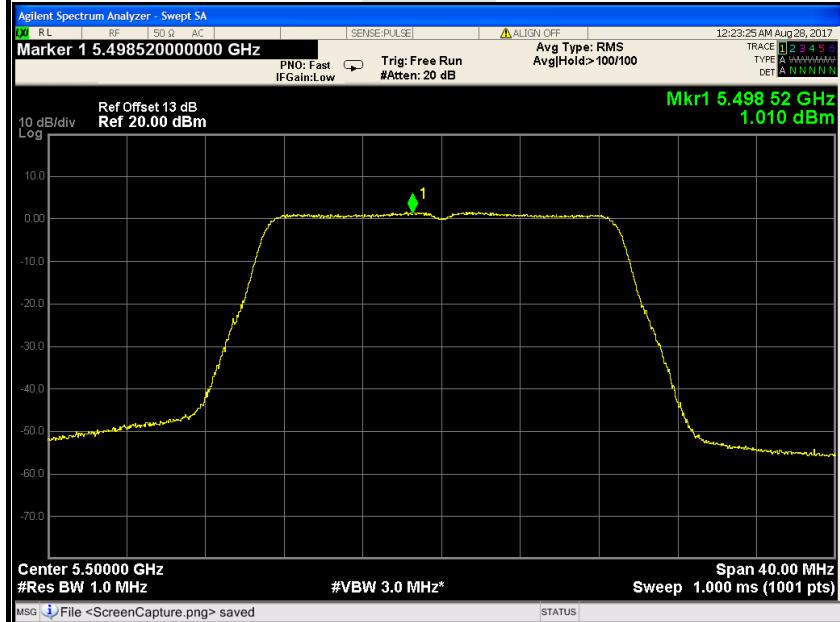
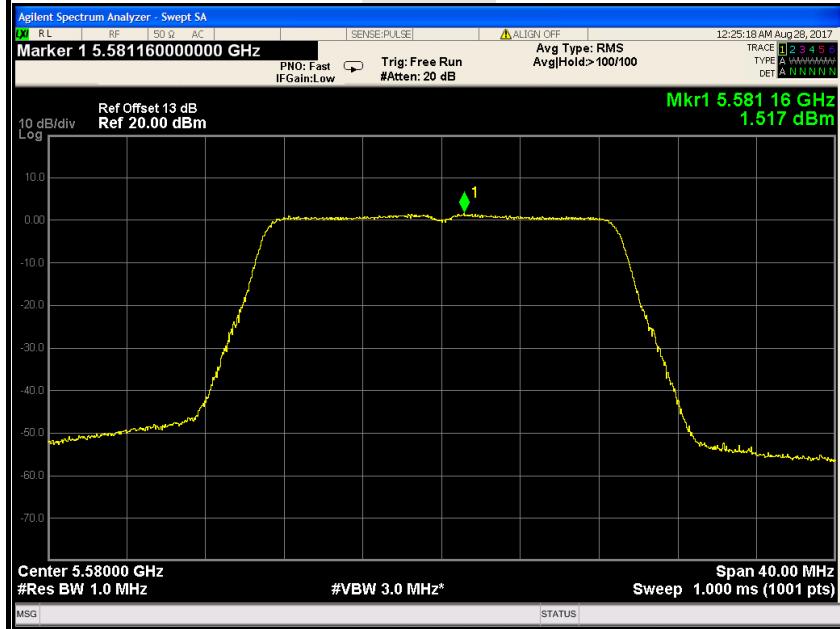
**PPSD (CH Mid)**

Antenna 3

**PPSD (CH High)**

Antenna 3

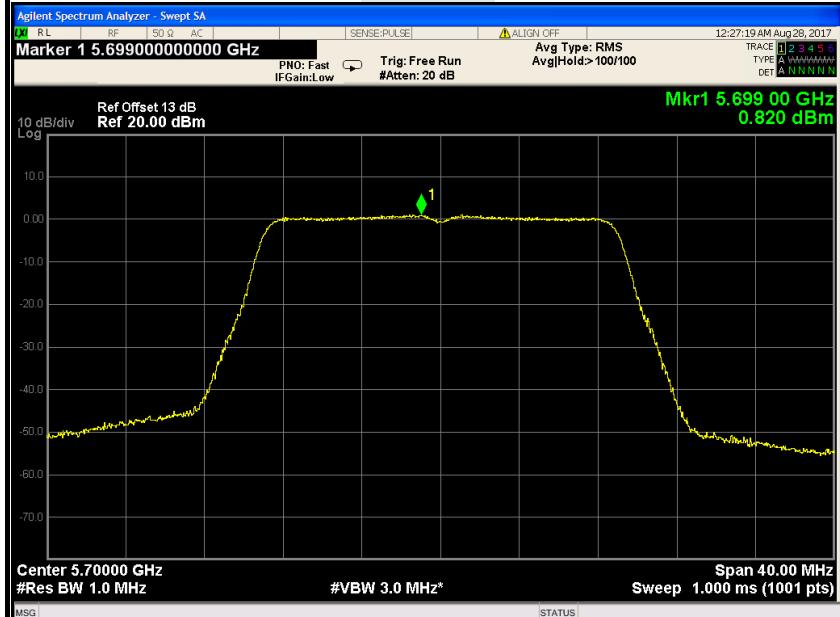


**IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz****PPSD (CH Low)****Antenna 3****PPSD (CH Mid)****Antenna 3**



## PPSD (CH High)

Antenna 3



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

## PPSD (CH Low)

Antenna 3

