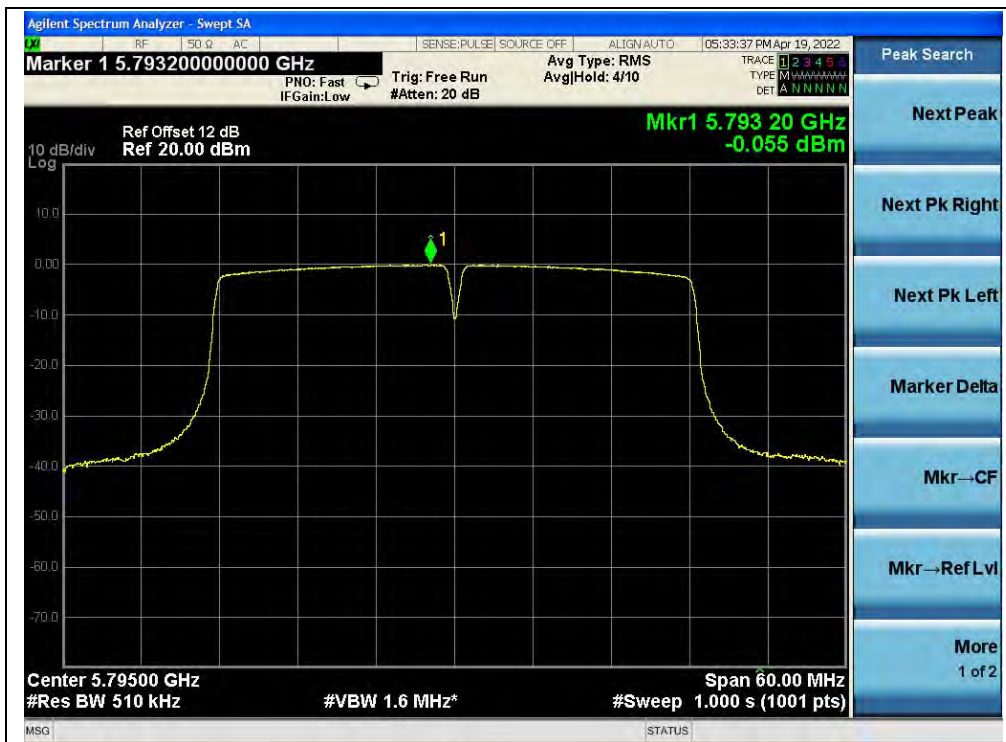


(Channel 151, 5755MHz, 802.11n (HT40), ANT0)



(Channel 159, 5795MHz, 802.11n (HT40), ANT0)



**802.11ac (VHT20) Mode**

**A.Test Verdict:**

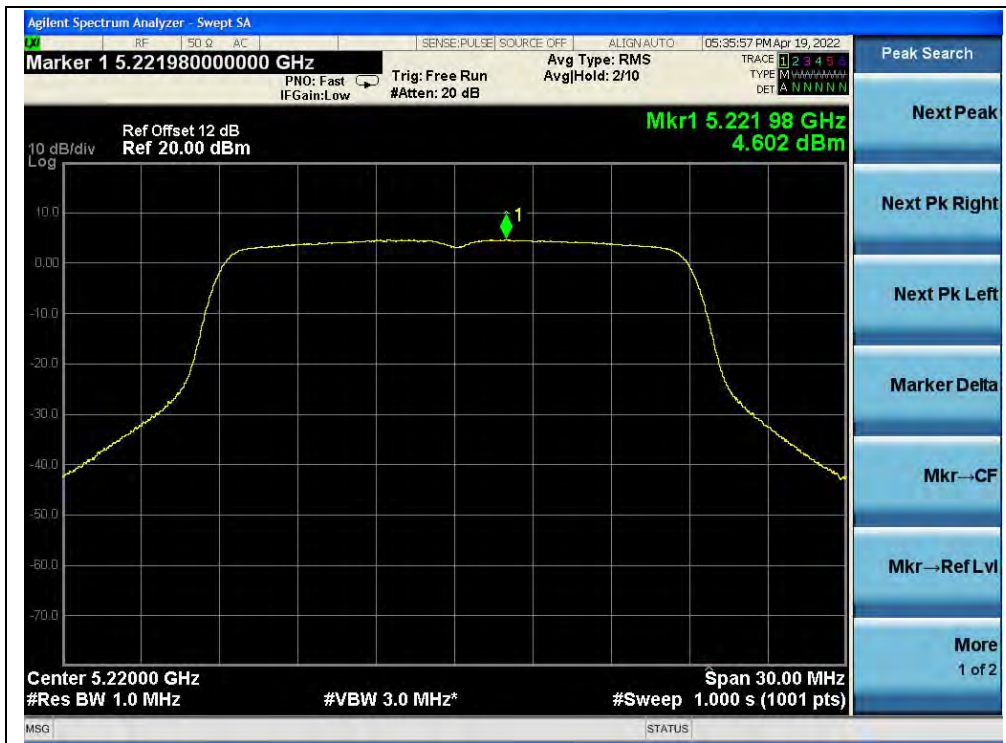
Frequency (MHz)	Measured PPSD (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
	ANT0	ANT1				
5180	4.47	3.33	0.02	6.97	10.08	PASS
5220	4.60	4.02		7.35		
5240	4.43	4.23		7.36		
5260	4.34	4.33		7.37		
5300	4.38	4.56		7.50		
5320	4.36	4.13		7.28		
5500	3.13	2.87		6.03		
5600	3.80	2.66		6.30		
5720	4.95	3.77		7.43		
Frequency (MHz)	Measured PPSD (dBm/500KHz)		Duty Factor	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
	ANT0	ANT1				
5720	2.04	0.82	0.02	4.50	29.08	PASS
5745	2.08	0.67		4.46		
5785	1.73	1.06		4.44		
5825	1.12	0.88		4.03		
<p><b>Note:</b> Directional gain = 3.91dBi +10log(2) = 6.92dBi &gt; 6dBi, so the limit shall be reduced to 11-(6.92-6) = 10.08dBm for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to 30-(6.92-6) = 29.08dBm for 5.745-5.825GHz band.</p>						



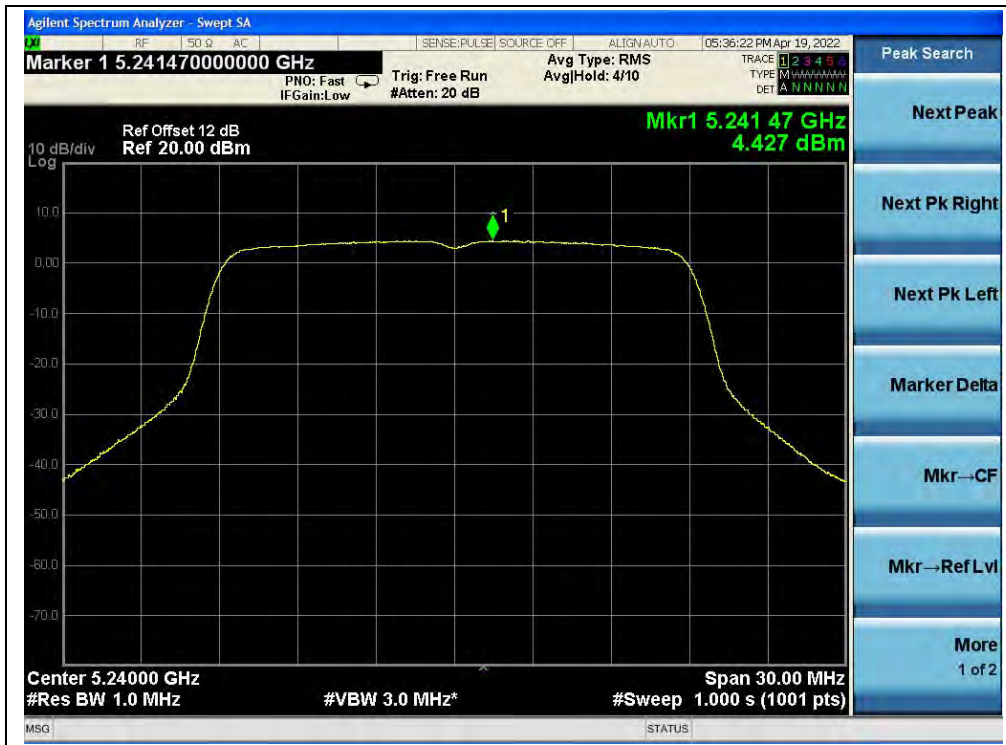
B.Test Plot:



(Channel 36, 5180MHz, 802.11ac (VHT20), ANT0)



(Channel 44, 5220MHz, 802.11ac (VHT20), ANT0)



(Channel 48, 5240MHz, 802.11ac (VHT20), ANT0)



(Channel 52, 5260MHz, 802.11ac (VHT20), ANT0)



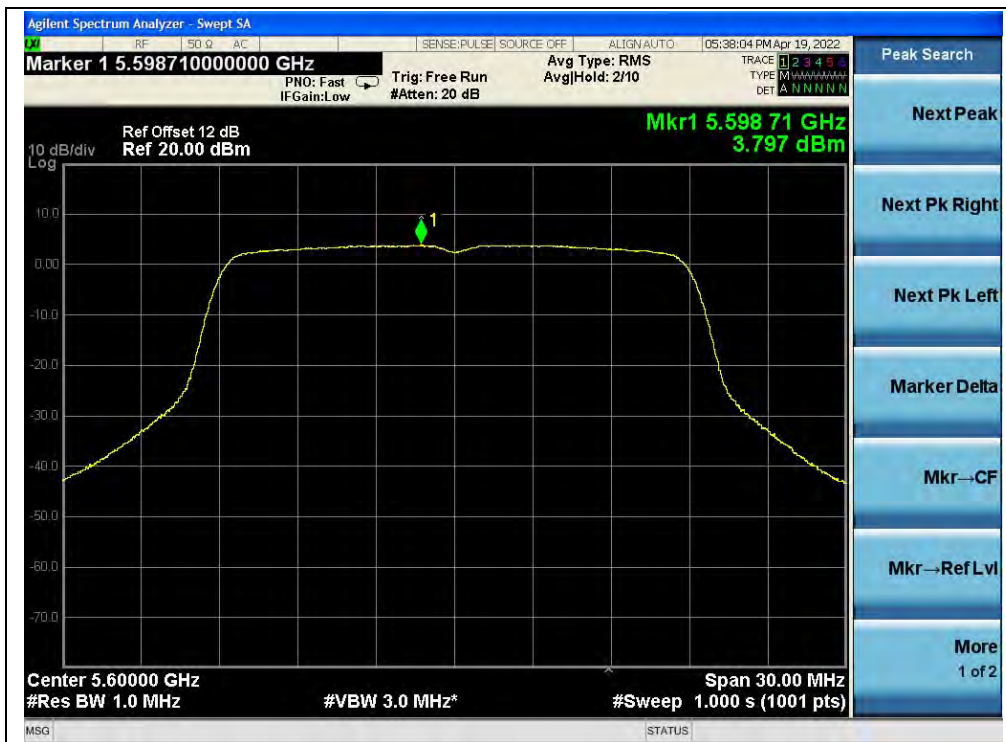
(Channel 60, 5300MHz, 802.11ac (VHT20), ANT0)



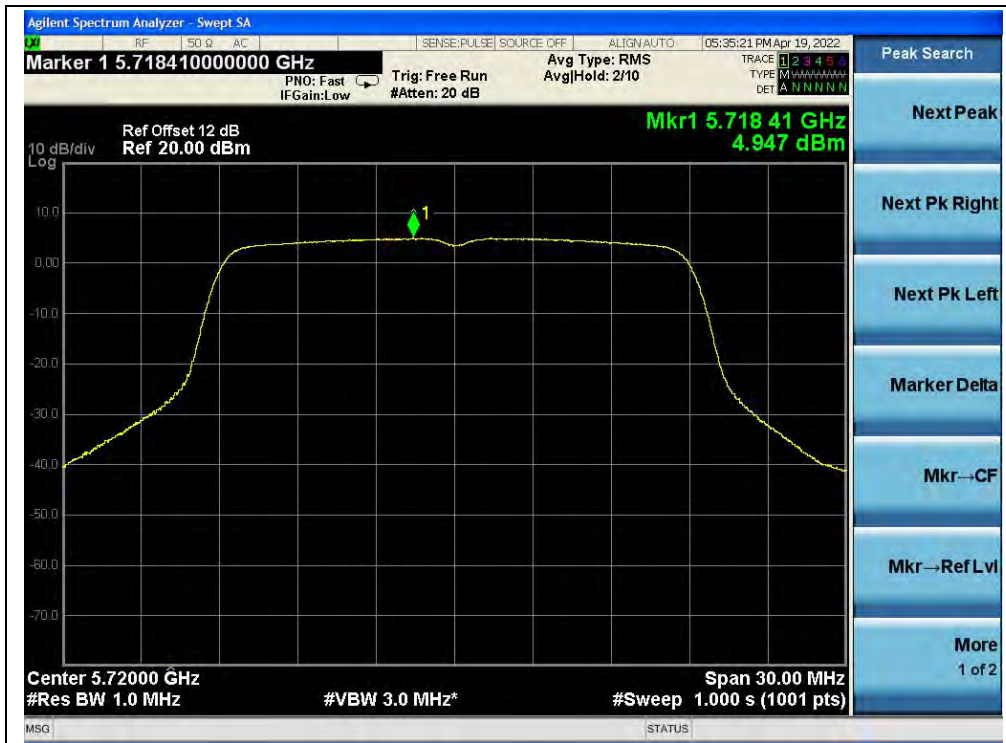
(Channel 64, 5320MHz, 802.11ac (VHT20), ANT0)



(Channel 100, 5500MHz, 802.11ac (VHT20), ANT0)



(Channel 120, 5600MHz, 802.11ac (VHT20), ANT0)



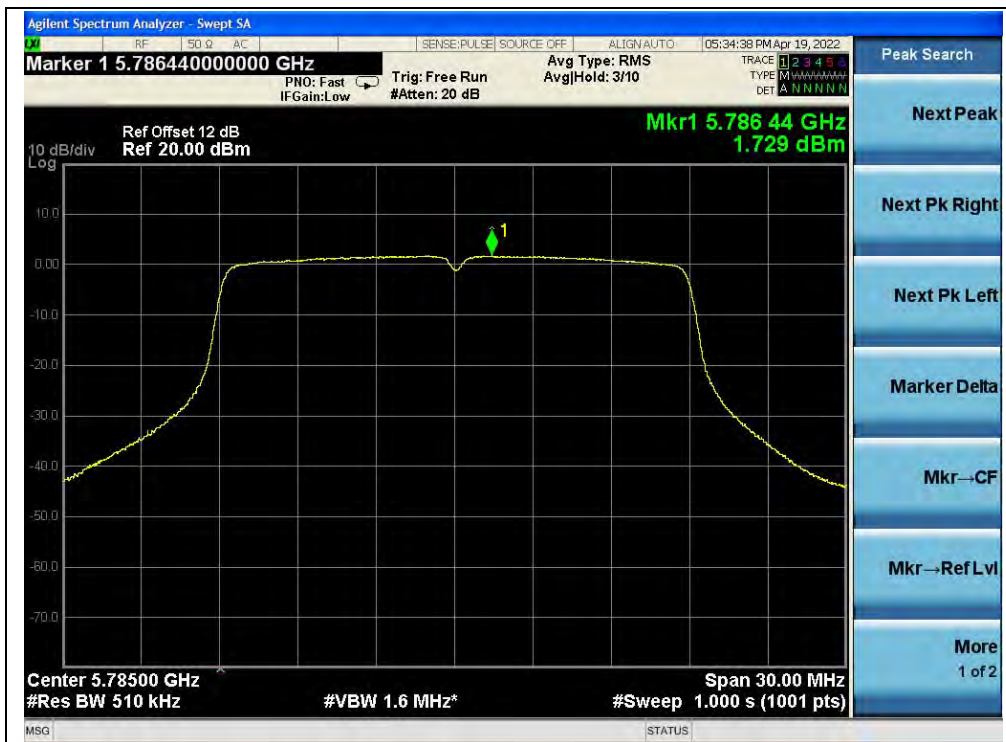
(Channel 144, 5720MHz, 802.11ac (VHT20), ANT0)



(Channel 144, 5720MHz, 802.11ac(VHT20), ANT0)



(Channel 149, 5745MHz, 802.11ac (VHT20), ANT0)



(Channel 157, 5785MHz, 802.11ac (VHT20), ANT0)





(Channel 165, 5825MHz, 802.11ac (VHT20), ANT0)



**802.11ac (VHT40) Mode**

**A.Test Verdict:**

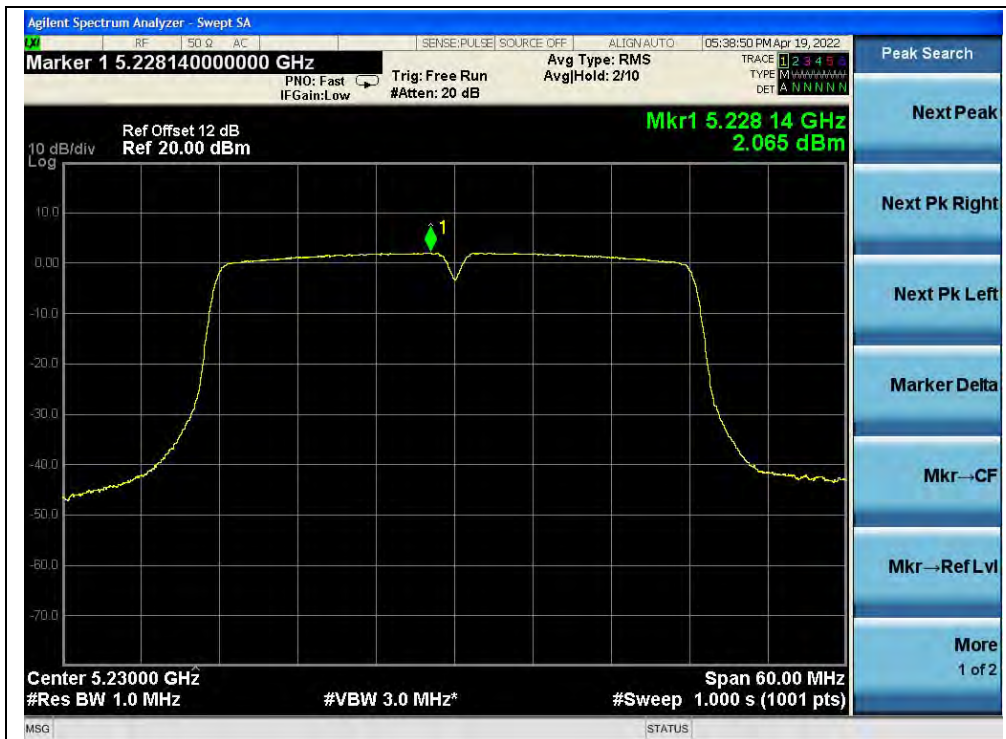
Frequency (MHz)	Measured PPSD (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
	ANT0	ANT1				
5190	1.87	1.19	0.02	4.57	10.08	PASS
5230	2.07	1.64		4.89		
5270	1.89	1.79		4.87		
5310	1.84	1.92		4.91		
5510	0.58	0.20		3.42		
5630	1.81	0.57		4.26		
5710	2.51	1.25		4.96		
Frequency (MHz)	Measured PPSD (dBm/500KHz)		Duty Factor	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
	ANT0	ANT1				
5710	-0.45	-1.58	0.02	2.05	29.08	PASS
5755	-0.51	-1.77		1.94		
5795	-1.01	-1.59		1.74		
<p><b>Note:</b> Directional gain = <math>3.91\text{dBi} + 10\log(2) = 6.92\text{dBi} &gt; 6\text{dBi}</math>, so the limit shall be reduced to <math>11 - (6.92 - 6) = 10.08\text{dBm}</math> for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to <math>30 - (6.92 - 6) = 29.08\text{dBm}</math> for 5.745-5.825GHz band.</p>						



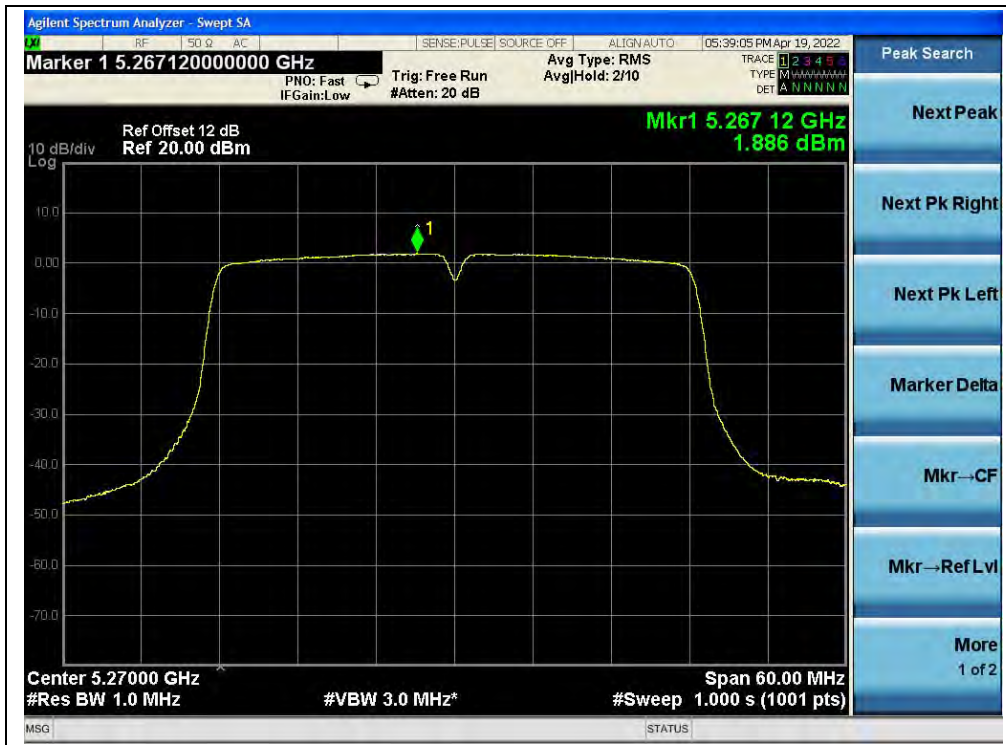
B.Test Plot:



(Channel 38, 5190MHz, 802.11ac (VHT40), ANT0)



(Channel 46, 5230MHz, 802.11ac (VHT40), ANT0)



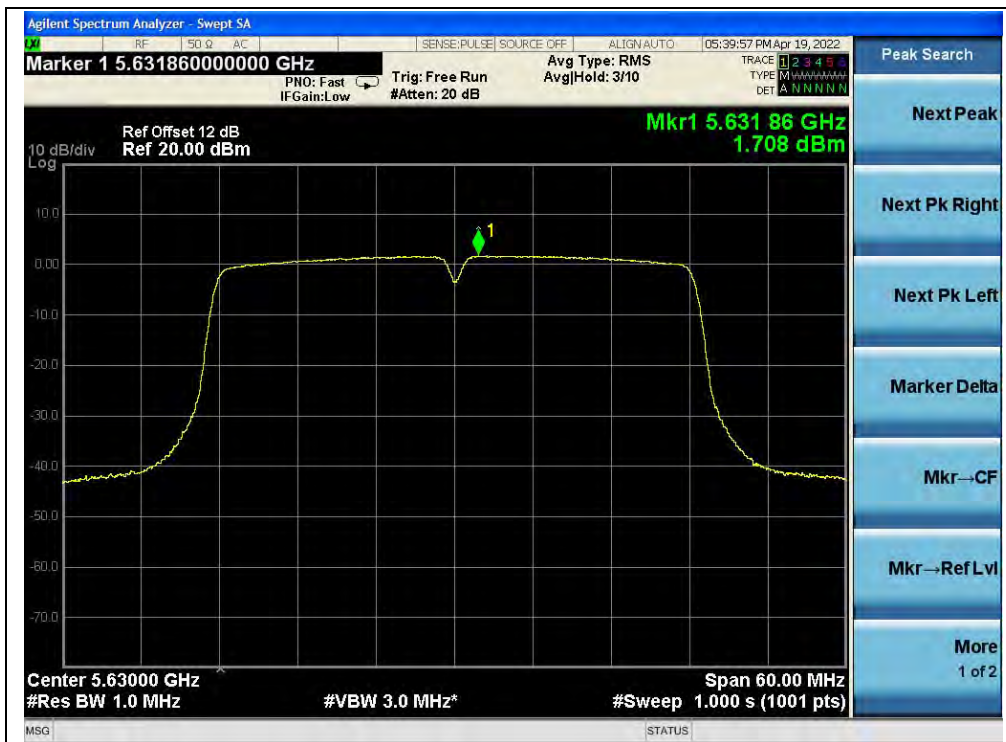
(Channel 54, 5270MHz, 802.11ac (VHT40), ANT0)



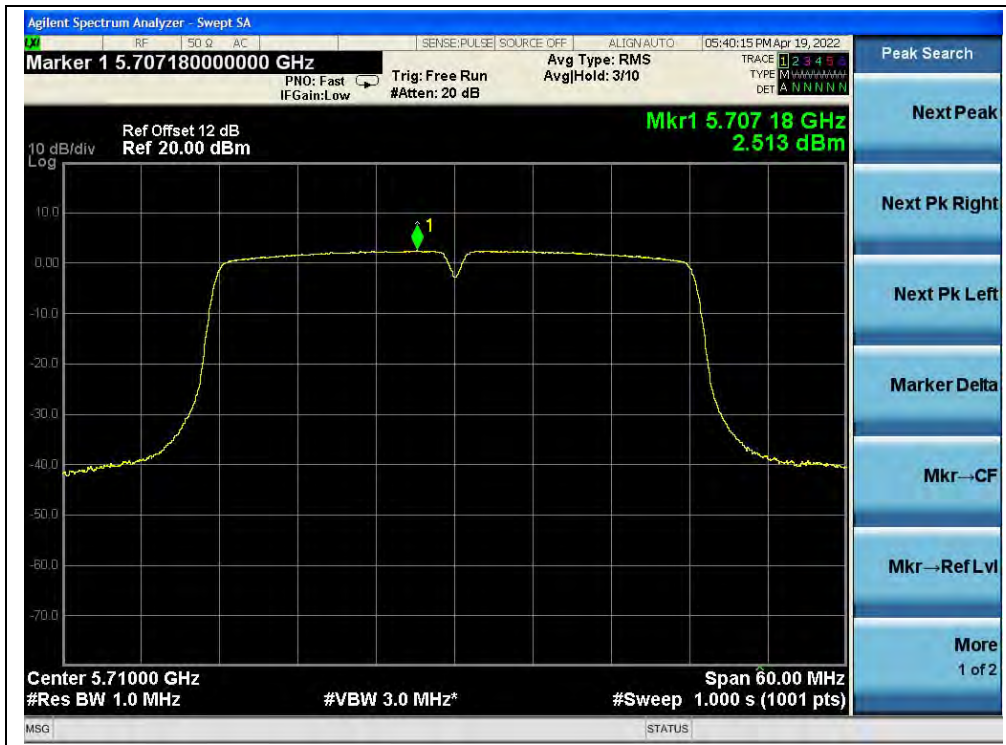
(Channel 62, 5310MHz, 802.11ac (VHT40), ANT0)



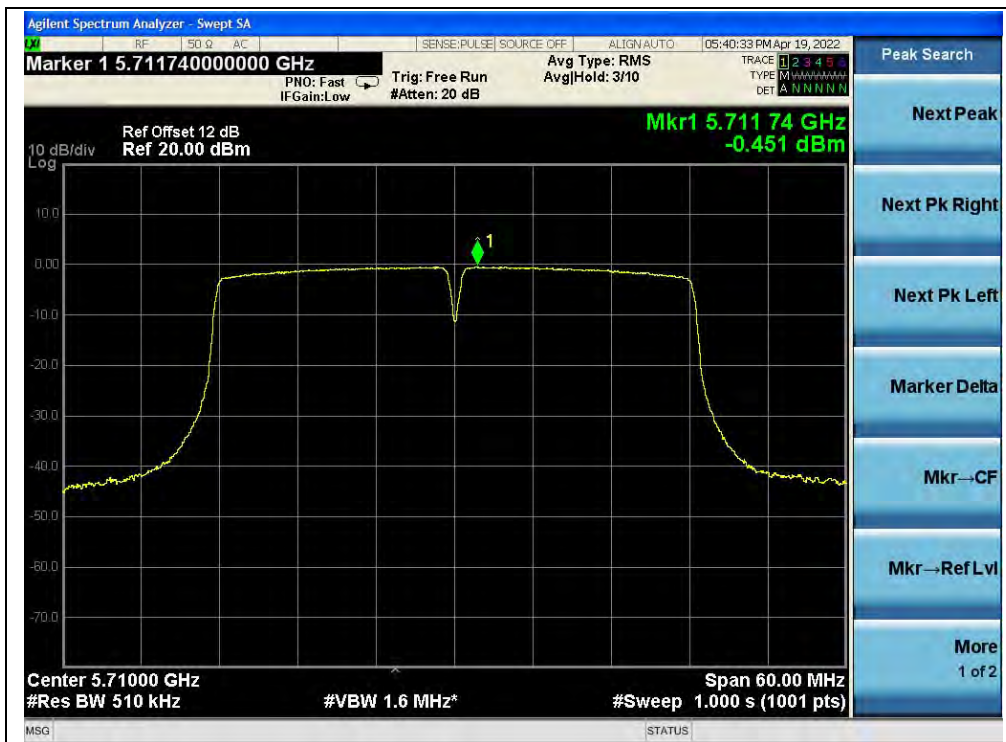
(Channel 102, 5510MHz, 802.11ac (VHT40), ANT0)



(Channel 126, 5630MHz, 802.11ac (VHT40), ANT0)



(Channel 142, 5710MHz, 802.11ac (VHT40), ANT0)



(Channel 142, 5710MHz, 802.11ac (VHT40), ANT0)



(Channel 151, 5755MHz, 802.11ac (VHT40), ANT0)



(Channel 159, 5795MHz, 802.11ac (VHT40), ANT0)



802.11ac (VHT80) Mode

A. Test Verdict:

Frequency (MHz)	Measured PPSD (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
	ANT0	ANT1				
5210	-1.56	-2.02	0.00	1.23	10.08	PASS
5290	-1.74	-1.59		1.35		
5530	-2.77	-3.28		-0.01		
5610	-2.23	-3.25		0.30		
5690	-1.17	-2.29		1.32		
Frequency (MHz)	Measured PPSD (dBm/500KHz)		Duty Factor	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
	ANT0	ANT1				
5690	-3.91	-5.19	0.00	-1.49	29.08	PASS
5775	-4.16	-5.01		-1.55		

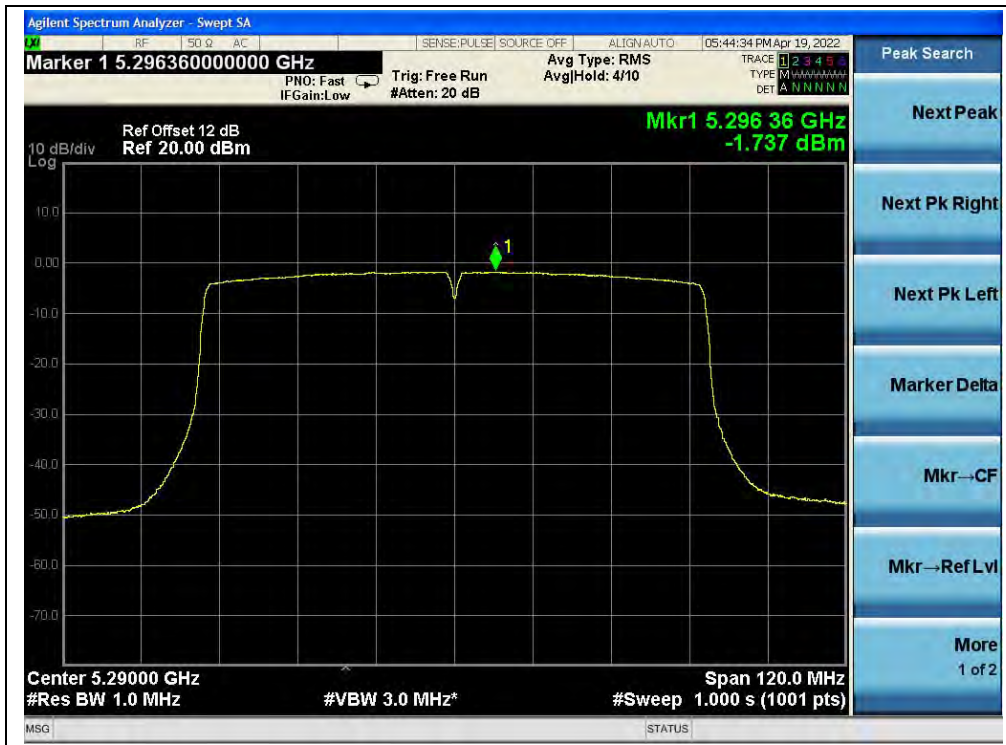
**Note:** Directional gain = 3.91dBi + 10log(2) = 6.92dBi > 6dBi, so the limit shall be reduced to 11-(6.92-6) = 10.08dBm for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to 30-(6.92-6) = 29.08dBm for 5.745-5.825GHz band.

B. Test Plot:



(Channel 42, 5210MHz, 802.11ac (VHT80), ANT0)

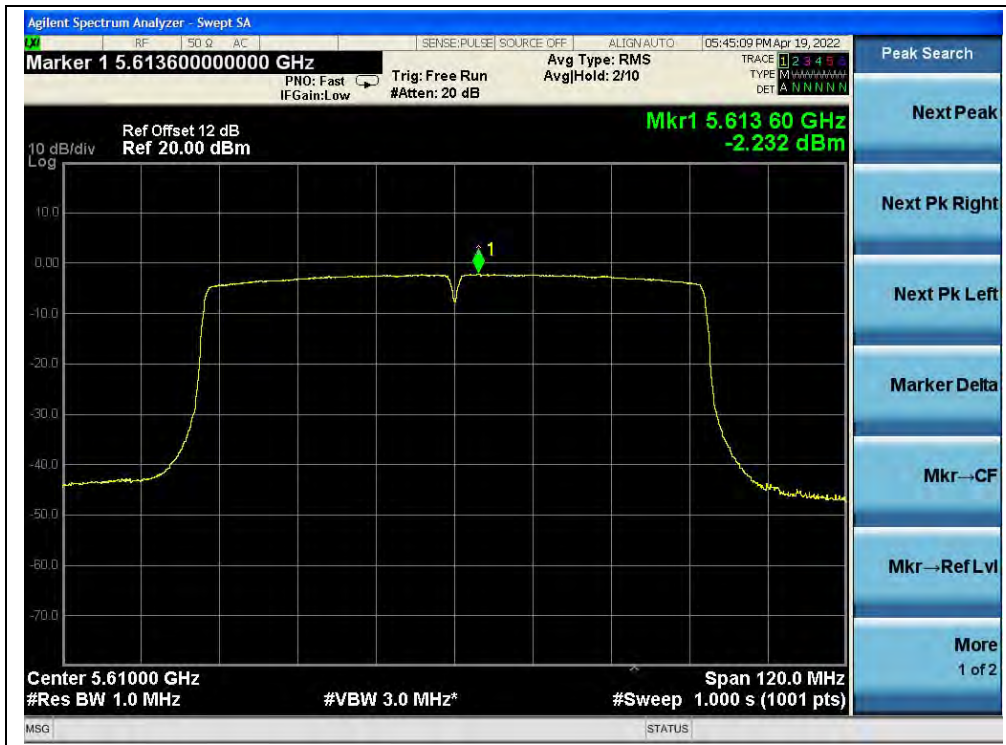




(Channel 58, 5290MHz, 802.11ac (VHT80), ANT0)



(Channel 106, 5530MHz, 802.11ac (VHT80), ANT0)



(Channel 122, 5610MHz, 802.11ac (VHT80), ANT0)



(Channel 138, 5690MHz, 802.11ac (VHT80), ANT0)



(Channel 138, 5690MHz, 802.11ac (VHT80), ANT0)



(Channel 155, 5775MHz, 802.11ac (VHT80), ANT0)



**802.11ax (HEW20) Mode**

**A.Test Verdict:**

Frequency (MHz)	Measured PPSD (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
	ANT0	ANT1				
5180	4.35	3.19	0.02	6.84	10.08	PASS
5220	4.41	3.85		7.17		
5240	4.27	4.16		7.25		
5260	4.21	4.28		7.28		
5300	4.22	4.42		7.35		
5320	4.15	4.12		7.17		
5500	2.84	2.75		5.83		
5600	3.65	2.61		6.19		
5720	4.78	3.50		7.22		
Frequency (MHz)	Measured PPSD (dBm/500KHz)		Duty Factor	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
	ANT0	ANT1				
5720	1.81	0.55	0.02	4.26	29.08	PASS
5745	1.85	0.57		4.29		
5785	1.56	0.88		4.26		
5825	0.98	0.83		3.94		
<p><b>Note:</b> Directional gain = <math>3.91\text{dBi} + 10\log(2) = 6.92\text{dBi} &gt; 6\text{dBi}</math>, so the limit shall be reduced to <math>11 - (6.92 - 6) = 10.08\text{dBm}</math> for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to <math>30 - (6.92 - 6) = 29.08\text{dBm}</math> for 5.745-5.825GHz band.</p>						



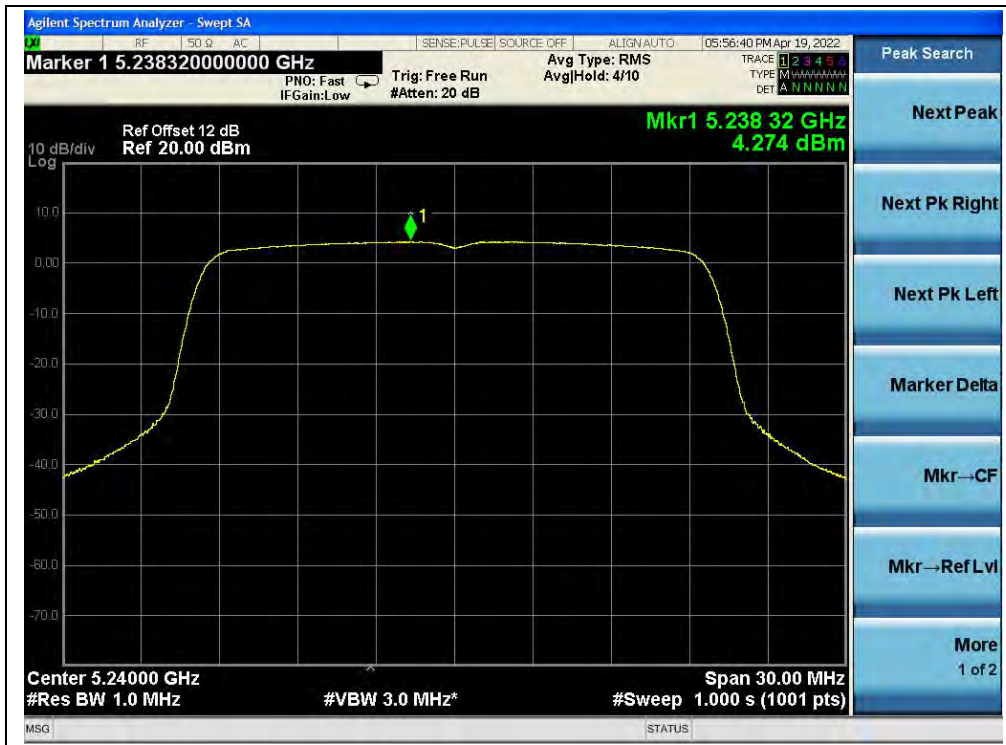
B.Test Plot:



(Channel 36, 5180MHz, 802.11ax (HEW20), ANT0)



(Channel 44, 5220MHz, 802.11ax (HEW20), ANT0)



(Channel 48, 5240MHz, 802.11ax (HEW20), ANT0)



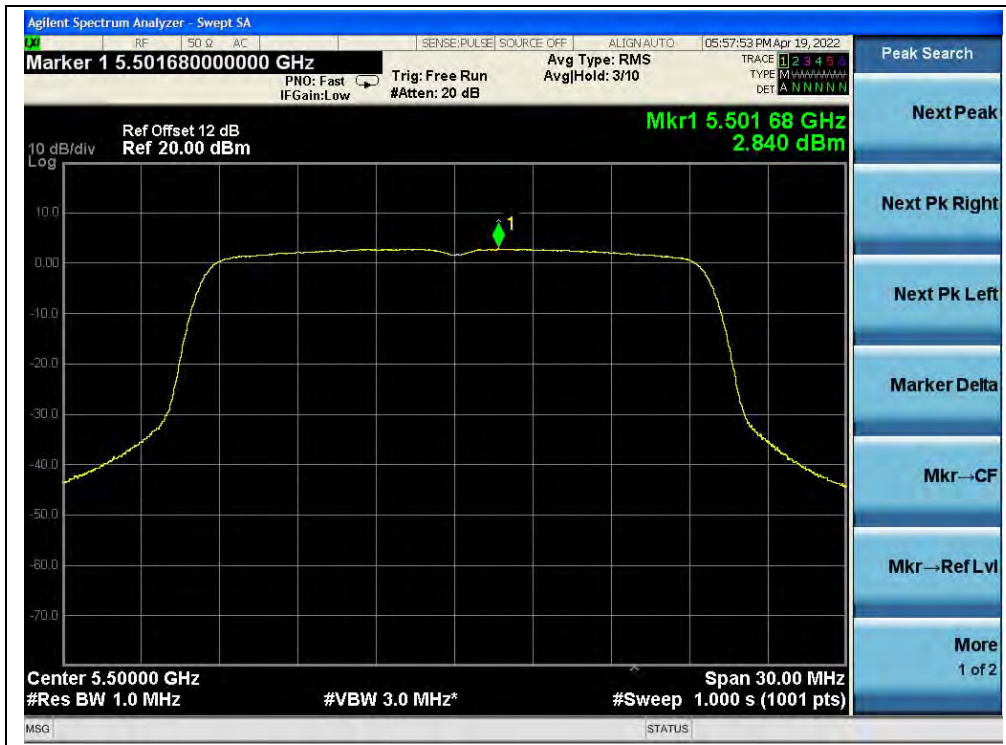
(Channel 52, 5260MHz, 802.11ax (HEW20), ANT0)



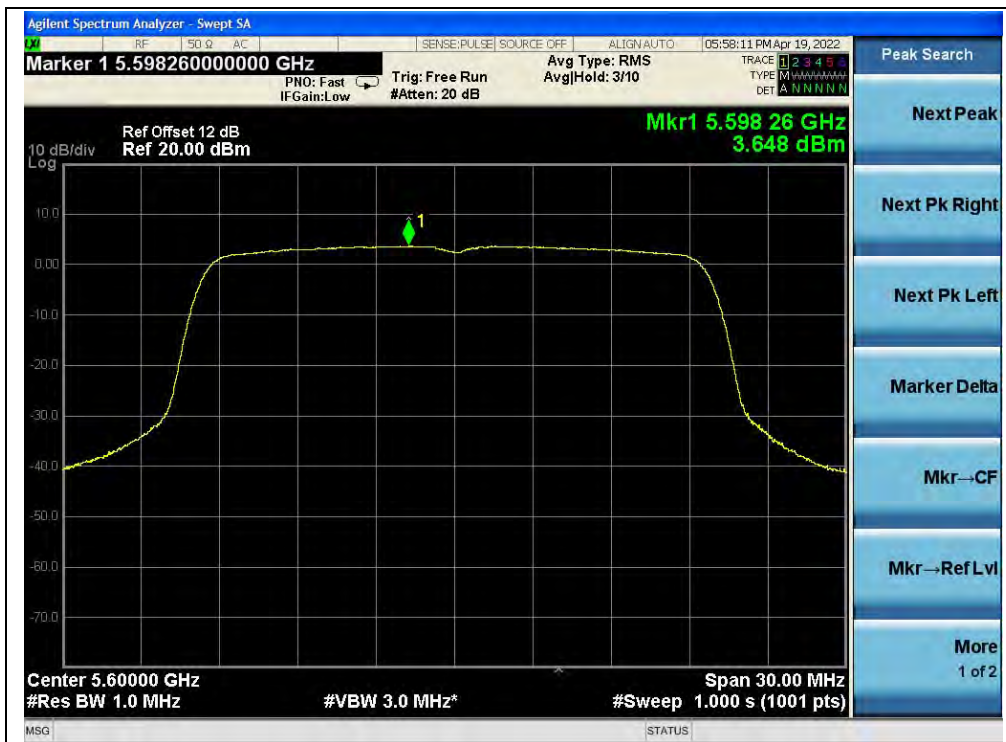
(Channel 60, 5300MHz, 802.11ax (HEW20), ANT0)



(Channel 64, 5320MHz, 802.11ax (HEW20), ANT0)



(Channel 100, 5500MHz, 802.11ax (HEW20), ANT0)

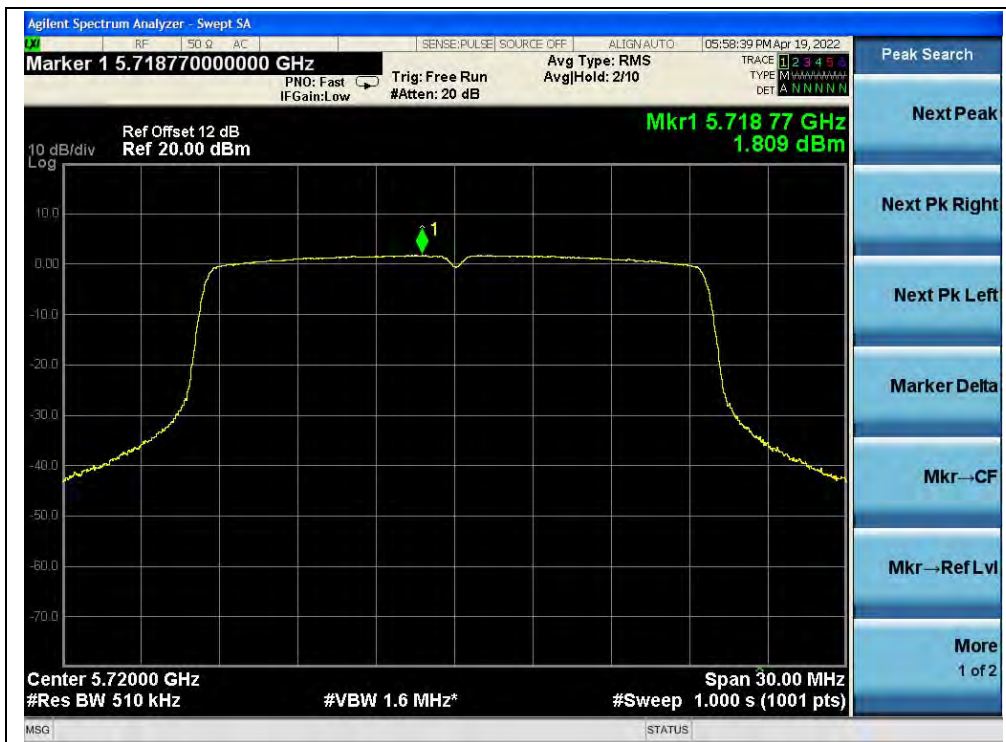


(Channel 120, 5600MHz, 802.11ax (HEW20), ANT0)

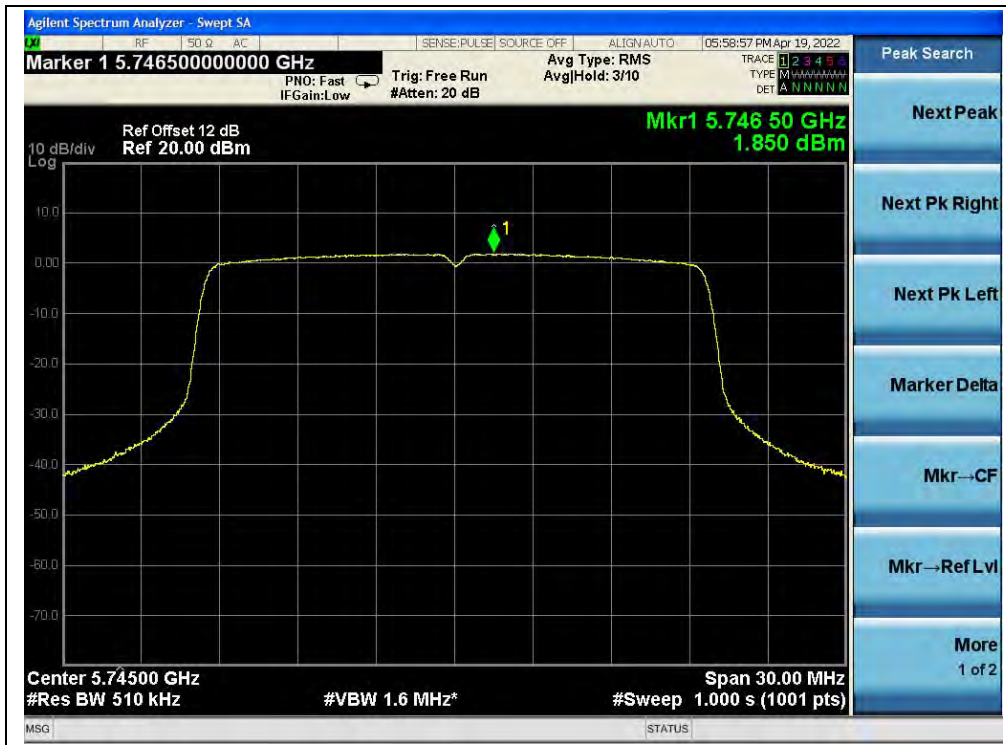




(Channel 144, 5720MHz, 802.11ax (HEW20), ANT0)



(Channel 144, 5720MHz, 802.11ax (HEW20), ANT0)



(Channel 149, 5745MHz, 802.11ax (HEW20), ANT0)



(Channel 157, 5785MHz, 802.11ax (HEW20), ANT0)



(Channel 165, 5825MHz, 802.11ax (HEW20), ANT0)



**802.11ax (HEW20) RU26 Mode**

**A.Test Verdict:**

Frequency (MHz)	Measured PPSD (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
	ANT0	ANT1				
5180	7.43	5.16	0.00	9.45	10.08	PASS
5220	7.39	5.64		9.61		
5240	7.12	6.13		9.66		
5260	7.12	6.23		9.71		
5300	6.89	6.35		9.64		
5320	7.01	6.18		9.63		
5500	5.98	4.67		8.38		
5600	6.68	4.71		8.82		
5720	7.64	5.42		9.68		
Frequency (MHz)	Measured PPSD (dBm/500KHz)		Duty Factor	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
	ANT0	ANT1				
5720	4.83	2.62	0.00	6.87	29.08	PASS
5745	4.78	2.57		6.82		
5785	4.51	2.69		6.70		
5825	3.99	2.74		6.42		
<p><b>Note:</b> Directional gain = 3.91dBi +10log(2) = 6.92dBi &gt; 6dBi, so the limit shall be reduced to 11-(6.92-6) = 10.08dBm for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to 30-(6.92-6) = 29.08dBm for 5.745-5.825GHz band.</p>						



B.Test Plot:



(Channel 36, 5180MHz, 802.11ax (HEW20) RU26, ANT0)



(Channel 44, 5220MHz, 802.11ax (HEW20) RU26, ANT0)



(Channel 48, 5240MHz, 802.11ax (HEW20) RU26, ANT0)



(Channel 52, 5260MHz, 802.11ax (HEW20) RU26, ANT0)



(Channel 60, 5300MHz, 802.11ax (HEW20) RU26, ANT0)



(Channel 64, 5320MHz, 802.11ax (HEW20) RU26, ANT0)



(Channel 100, 5500MHz, 802.11ax (HEW20) RU26, ANT0)



(Channel 120, 5600MHz, 802.11ax (HEW20) RU26, ANT0)





(Channel 144, 5720MHz, 802.11ax (HEW20) RU26, ANT0)



(Channel 144, 5720MHz, 802.11ax (HEW20) RU26, ANT0)



(Channel 149, 5745MHz, 802.11ax (HEW20) RU26, ANT0)



(Channel 157, 5785MHz, 802.11ax (HEW20) RU26, ANT0)



(Channel 165, 5825MHz, 802.11ax (HEW20) RU26, ANT0)



**802.11ax (HEW20) RU52 Mode**

**A.Test Verdict:**

Frequency (MHz)	Measured PPSD (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
	ANT0	ANT1				
5180	6.61	4.47	0.00	8.68	10.08	PASS
5220	6.63	5.02		8.91		
5240	6.44	5.43		8.97		
5260	6.44	5.68		9.09		
5300	6.33	5.46		8.93		
5320	4.44	5.16		7.83		
5500	5.16	3.83		7.56		
5600	6.26	3.74		8.19		
5720	6.82	4.72		8.91		
Frequency (MHz)	Measured PPSD (dBm/500KHz)		Duty Factor	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
	ANT0	ANT1				
5720	3.92	1.81	0.00	6.00	29.08	PASS
5745	3.90	1.66		5.93		
5785	3.56	1.90		5.82		
5825	3.06	1.86		5.51		
<p><b>Note:</b> Directional gain = 3.91dBi +10log(2) = 6.92dBi &gt; 6dBi, so the limit shall be reduced to 11-(6.92-6) = 10.08dBm for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to 30-(6.92-6) = 29.08dBm for 5.745-5.825GHz band.</p>						

B.Test Plot:



(Channel 36, 5180MHz, 802.11ax (HEW20) RU52, ANT0)



(Channel 44, 5220MHz, 802.11ax (HEW20) RU52, ANT0)



(Channel 48, 5240MHz, 802.11ax (HEW20) RU52, ANT0)



(Channel 52, 5260MHz, 802.11ax (HEW20) RU52, ANT0)



(Channel 60, 5300MHz, 802.11ax (HEW20) RU52, ANT0)



(Channel 64, 5320MHz, 802.11ax (HEW20) RU52, ANT0)



(Channel 100, 5500MHz, 802.11ax (HEW20) RU52, ANT0)



(Channel 120, 5600MHz, 802.11ax (HEW20) RU52, ANT0)

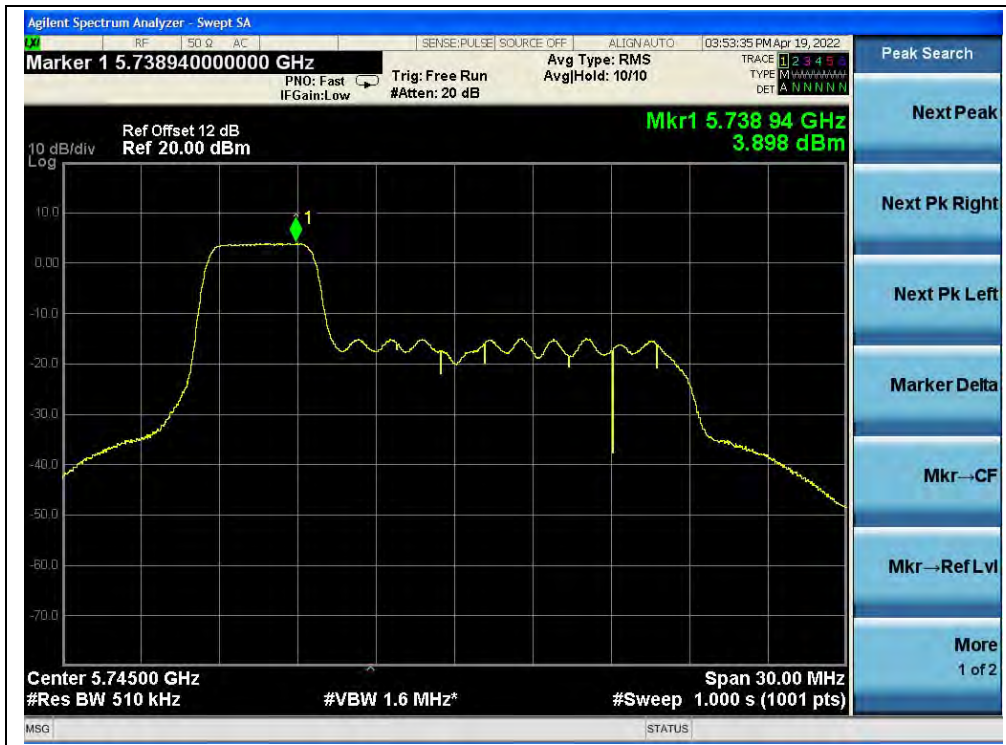




(Channel 144, 5720MHz, 802.11ax (HEW20) RU52, ANT0)



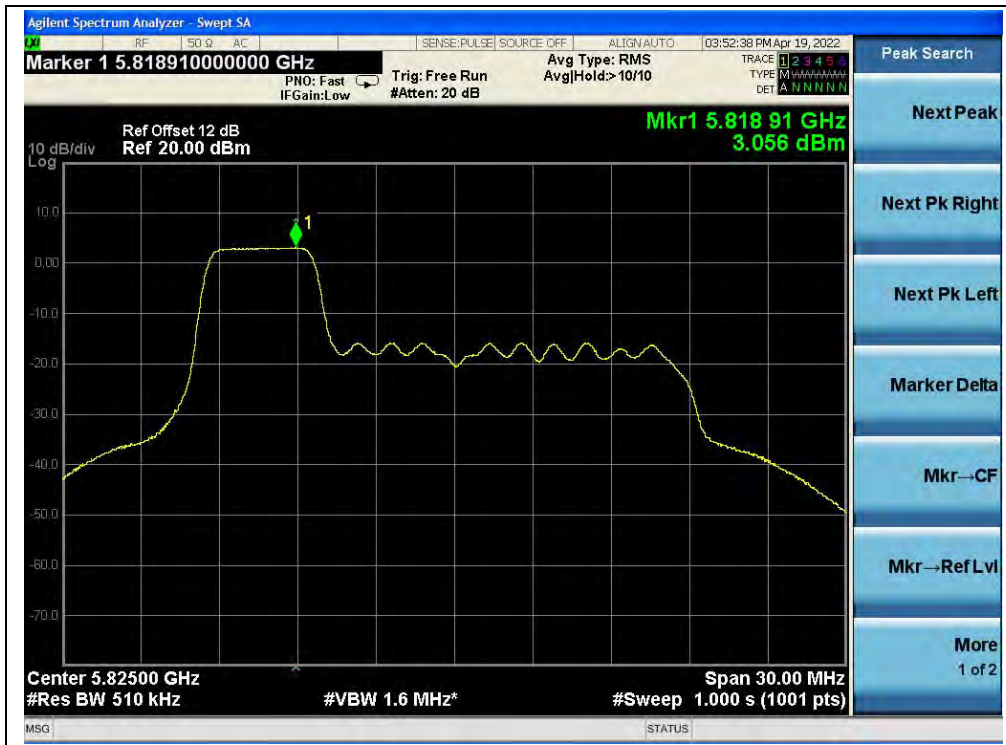
(Channel 144, 5720MHz, 802.11ax (HEW20) RU52, ANT0)



(Channel 149, 5745MHz, 802.11ax (HEW20) RU52, ANT0)



(Channel 157, 5785MHz, 802.11ax (HEW20) RU52, ANT0)



(Channel 165, 5825MHz, 802.11ax (HEW20) RU52, ANT0)



**802.11ax (HEW20) RU106 Mode**

**A.Test Verdict:**

Frequency (MHz)	Measured PPSD (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
	ANT0	ANT1				
5180	5.16	2.34	0.00	6.99	10.08	PASS
5220	4.94	3.02		7.10		
5240	4.75	3.23		7.07		
5260	4.90	3.48		7.26		
5300	4.57	3.75		7.19		
5320	4.30	3.48		6.92		
5500	3.27	1.91		5.65		
5600	4.03	1.83		6.08		
5720	5.10	2.70		7.07		
Frequency (MHz)	Measured PPSD (dBm/500KHz)		Duty Factor	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
	ANT0	ANT1				
5720	2.15	-0.18	0.00	4.15	29.08	PASS
5745	2.37	-0.34		4.25		
5785	1.87	0.00		4.07		
5825	1.00	-0.10		3.52		
<p><b>Note:</b> Directional gain = 3.91dBi +10log(2) = 6.92dBi &gt; 6dBi, so the limit shall be reduced to 11-(6.92-6) = 10.08dBm for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to 30-(6.92-6) = 29.08dBm for 5.745-5.825GHz band.</p>						



B.Test Plot:



(Channel 36, 5180MHz, 802.11ax (HEW20) RU106, ANT0)



(Channel 44, 5220MHz, 802.11ax (HEW20) RU106, ANT0)



(Channel 48, 5240MHz, 802.11ax (HEW20) RU106, ANT0)



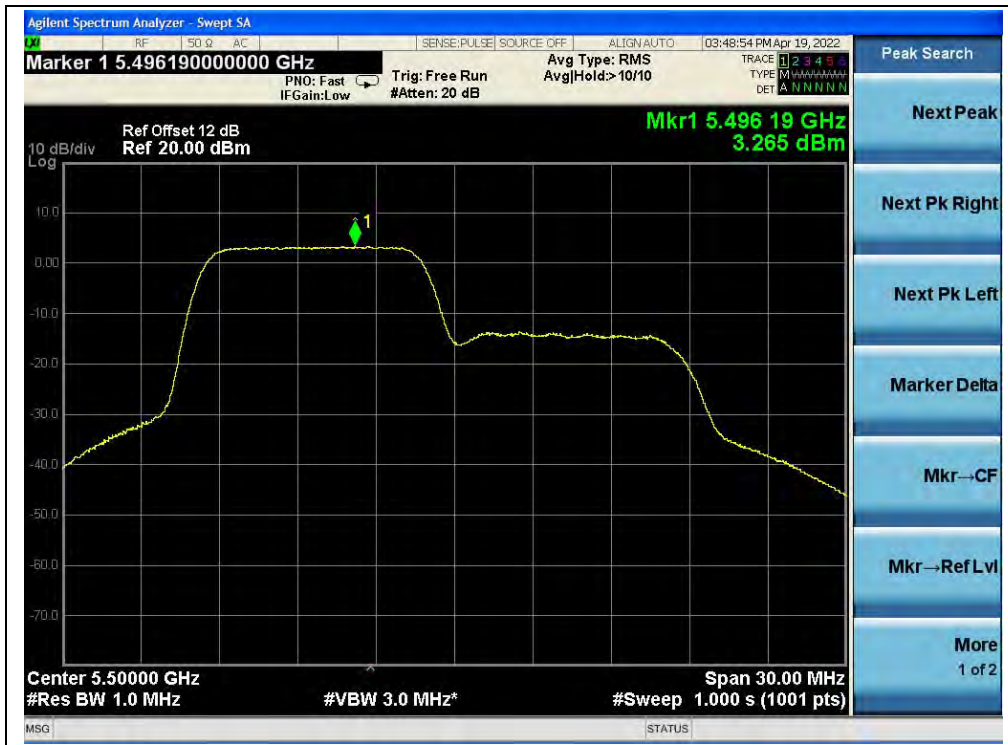
(Channel 52, 5260MHz, 802.11ax (HEW20) RU106, ANT0)



(Channel 60, 5300MHz, 802.11ax (HEW20) RU106, ANT0)



(Channel 64, 5320MHz, 802.11ax (HEW20) RU106, ANT0)



(Channel 100, 5500MHz, 802.11ax (HEW20) RU106, ANT0)



(Channel 120, 5600MHz, 802.11ax (HEW20) RU106, ANT0)





(Channel 144, 5720MHz, 802.11ax (HEW20) RU106, ANT0)



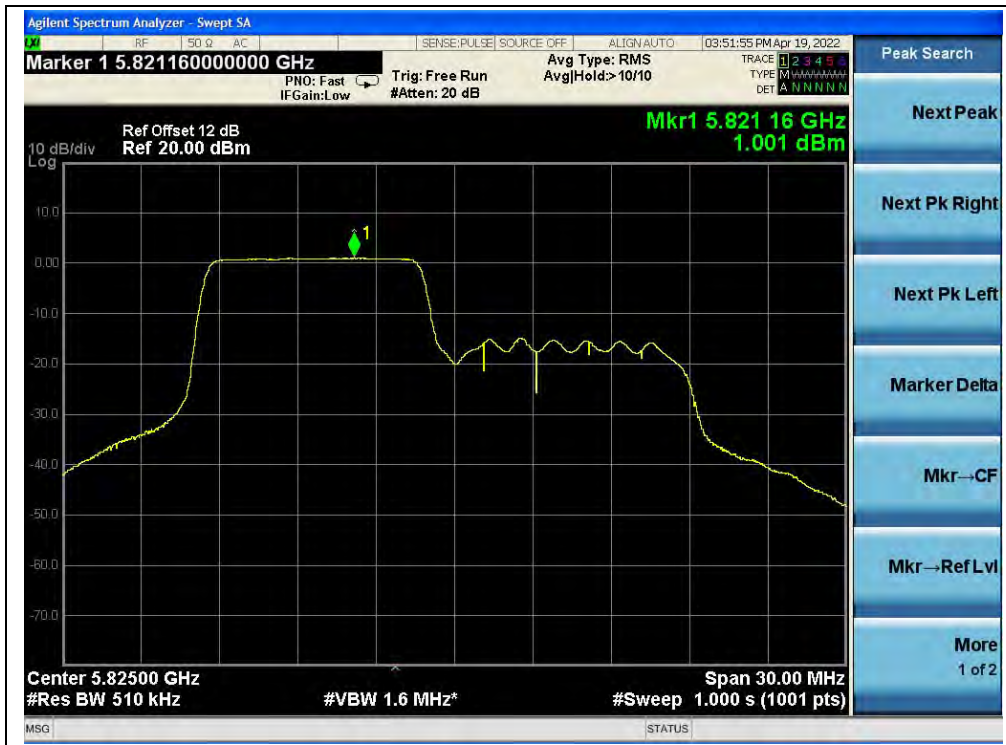
(Channel 144, 5720MHz, 802.11ax (HEW20) RU106, ANT0)



(Channel 149, 5745MHz, 802.11ax (HEW20) RU106, ANT0)



(Channel 157, 5785MHz, 802.11ax (HEW20) RU106, ANT0)



(Channel 165, 5825MHz, 802.11ax (HEW20) RU106, ANT0)



**802.11ax (HEW40) Mode**

**A.Test Verdict:**

Frequency (MHz)	Measured PPSD (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
	ANT0	ANT1				
5190	1.51	0.64	0.02	4.13	10.08	PASS
5230	1.78	1.28		4.57		
5270	1.60	1.42		4.54		
5310	1.61	1.46		4.57		
5510	0.38	-0.23		3.12		
5630	1.02	-0.40		3.40		
5710	2.18	0.76		4.56		
Frequency (MHz)	Measured PPSD (dBm/500KHz)		Duty Factor	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
	ANT0	ANT1				
5710	-0.74	-2.12	0.02	1.65	29.08	PASS
5755	-0.95	-2.24		1.48		
5795	-1.51	-2.14		1.22		
<p><b>Note:</b> Directional gain = <math>3.91\text{dBi} + 10\log(2) = 6.92\text{dBi} &gt; 6\text{dBi}</math>, so the limit shall be reduced to <math>11 - (6.92 - 6) = 10.08\text{dBm}</math> for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to <math>30 - (6.92 - 6) = 29.08\text{dBm}</math> for 5.745-5.825GHz band.</p>						



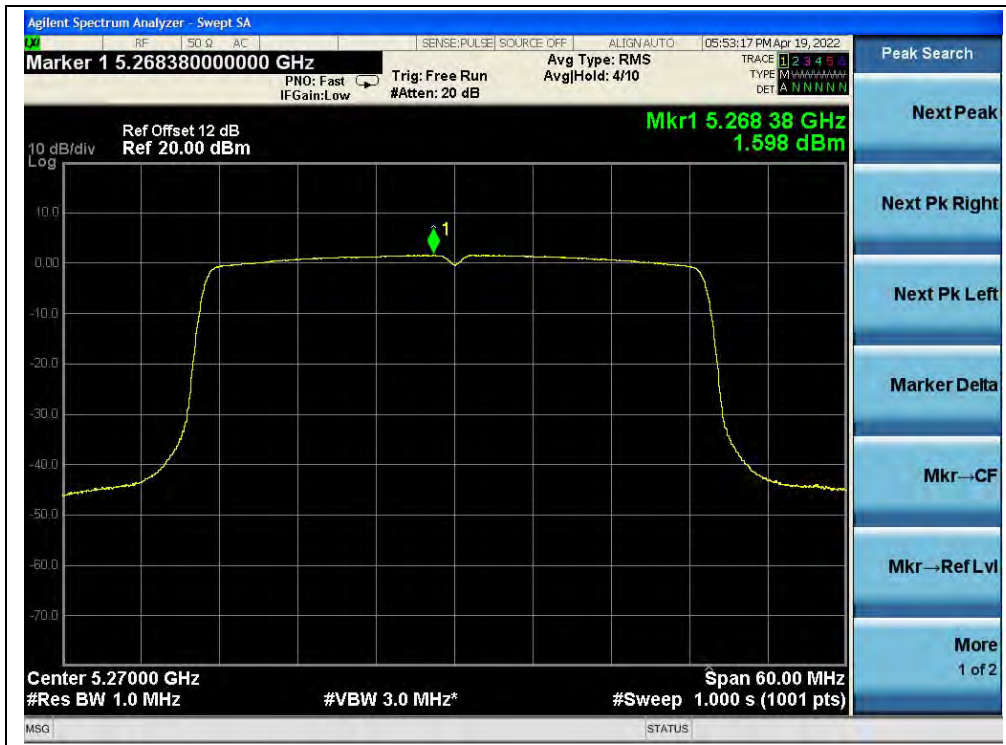
B.Test Plot:



(Channel 38, 5190MHz, 802.11ax (HEW40), ANT0)



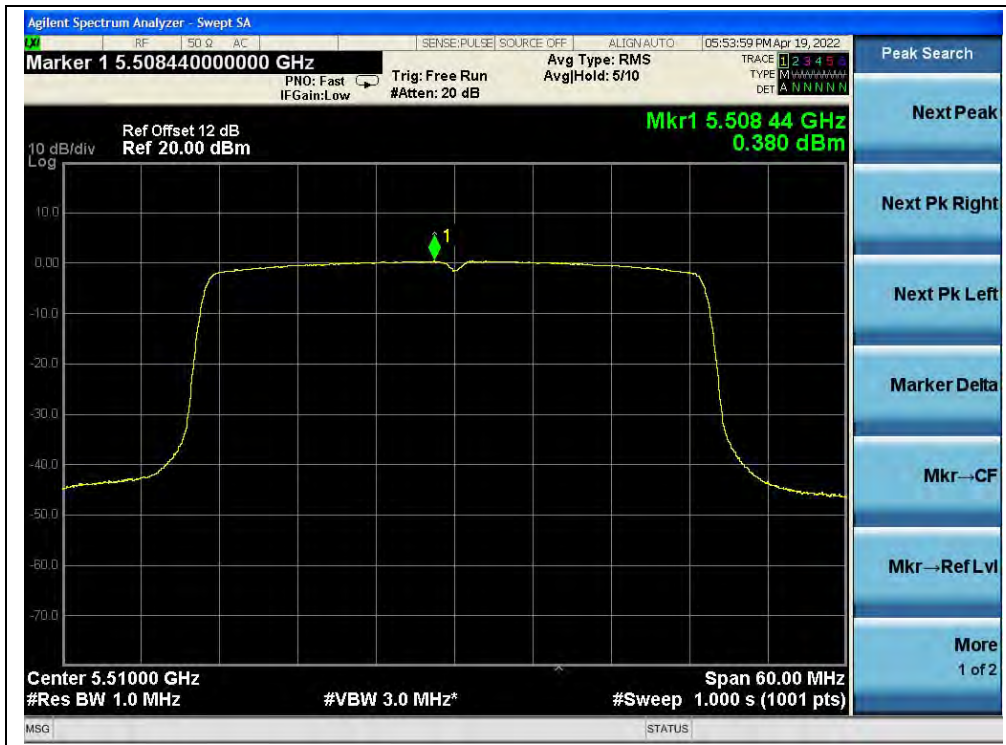
(Channel 46, 5230MHz, 802.11ax (HEW40), ANT0)



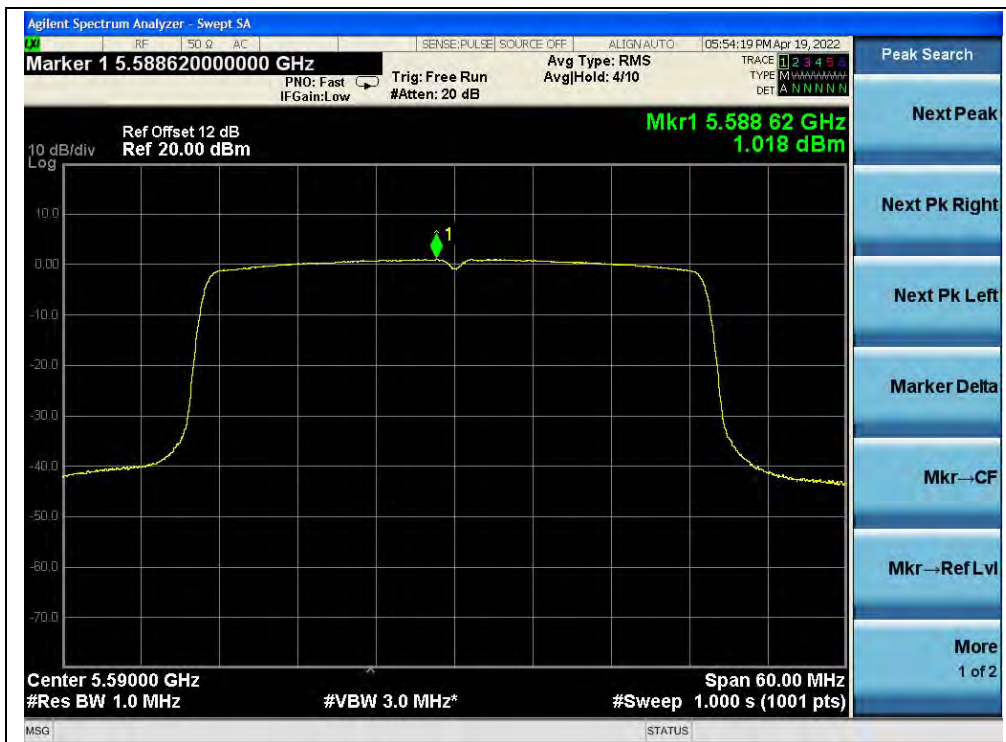
(Channel 54, 5270MHz, 802.11ax (HEW40), ANT0)



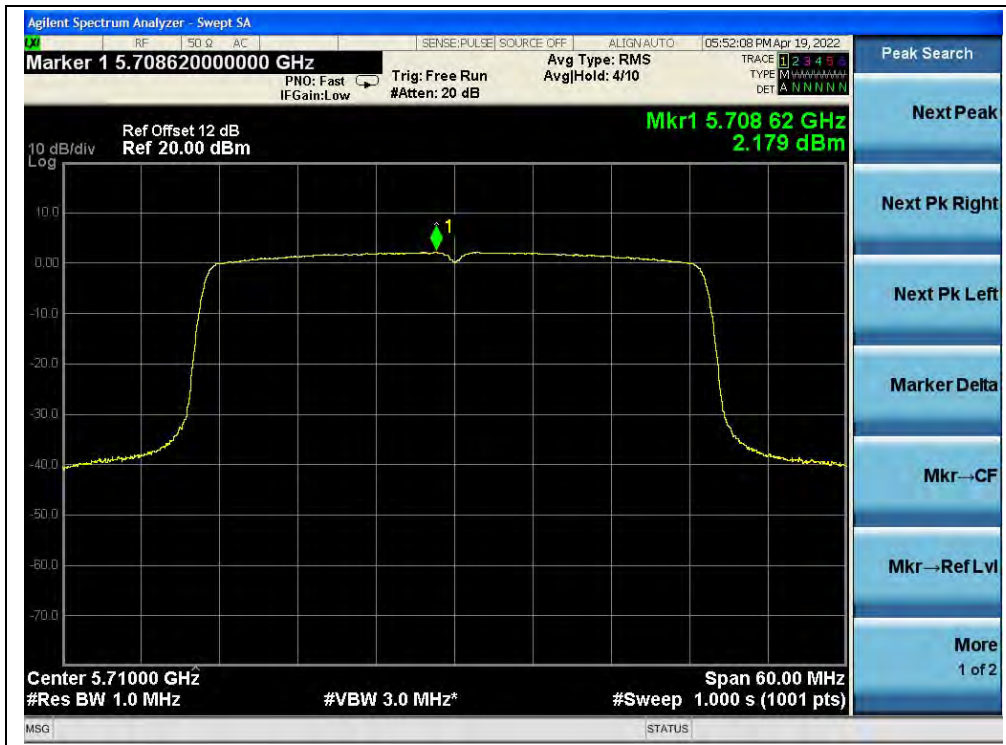
(Channel 62, 5310MHz, 802.11ax (HEW40), ANT0)



(Channel 102, 5510MHz, 802.11ax (HEW40), ANT0)



(Channel 126, 5630MHz, 802.11ax (HEW40), ANT0)



(Channel 142, 5710MHz, 802.11ax (HEW40), ANT0)



(Channel 142, 5710MHz, 802.11ax (HEW40), ANT0)





(Channel 151, 5755MHz, 802.11ax (HEW40), ANT0)



(Channel 159, 5795MHz, 802.11ax (HEW40), ANT0)



802.11ax (HEW80) Mode

A. Test Verdict:

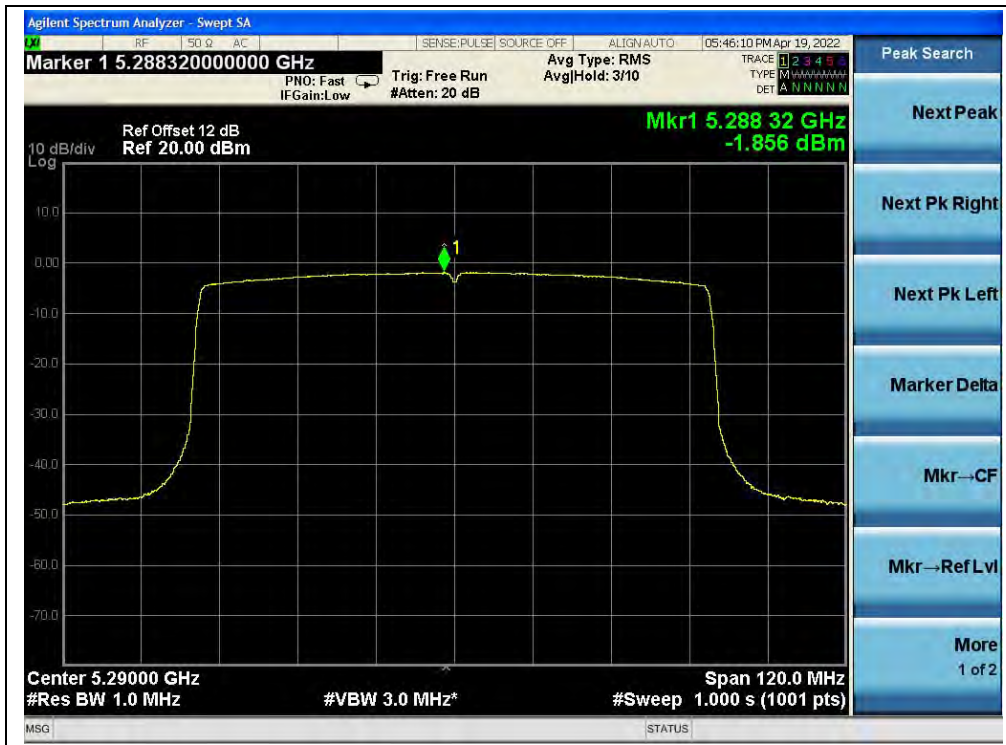
Frequency (MHz)	Measured PPSD (dBm/MHz)		Duty Factor	Total PPSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
	ANT0	ANT1				
5210	-1.70	-2.19	0.00	1.07	10.08	PASS
5290	-1.86	-1.75		1.21		
5530	-2.88	-3.36		-0.10		
5610	-2.35	-3.51		0.12		
5690	-1.43	-2.32		1.16		
Frequency (MHz)	Measured PPSD (dBm/500KHz)		Duty Factor	Total PPSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
	ANT0	ANT1				
5690	-4.33	-5.30	0.00	-1.78	29.08	PASS
5775	-4.42	-5.17		-1.77		

**Note:** Directional gain = 3.91dBi + 10log(2) = 6.92dBi > 6dBi, so the limit shall be reduced to 11-(6.92-6) = 10.08dBm for 5.18-5.24GHz, 5.260-5.320GHz, 5.500-5.720GHz band and reduced to 30-(6.92-6) = 29.08dBm for 5.745-5.825GHz band.

B. Test Plot:



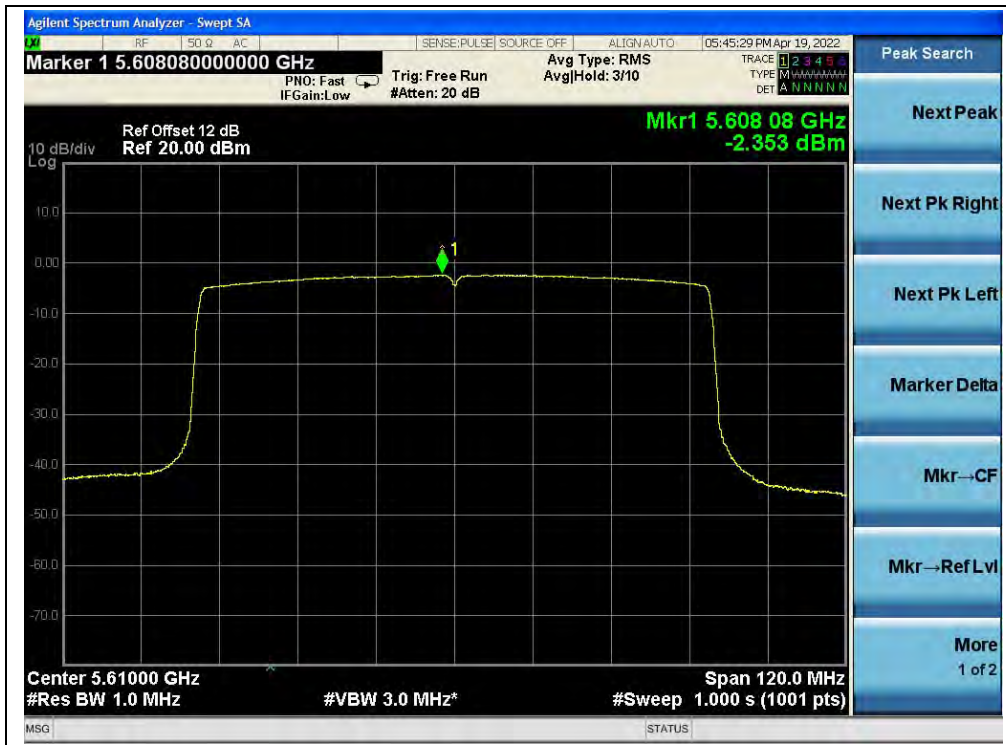
(Channel 42, 5210MHz, 802.11ax (HEW80), ANT0)



(Channel 58, 5290MHz, 802.11ax (HEW80), ANT0)



(Channel 106, 5530MHz, 802.11ax (HEW80), ANT0)



(Channel 122, 5610MHz, 802.11ax (HEW80), ANT0)



(Channel 138, 5690MHz, 802.11ax (HEW80), ANT0)



(Channel 138, 5690MHz, 802.11ax (HEW80), ANT0)



(Channel 155, 5775MHz, 802.11ax (HEW80), ANT0)



## 2.6. Frequency Stability

### 2.6.1. Requirement

Manufacturers 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.

### 2.6.2. Test Procedure

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between 5°C to 40°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

### 2.6.3. Test Result

U-NII-1 (Ch. 36) 5180MHz				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	4.20	+20(Ref)	23	4.440
100%		-30	25	4.826
100%		-20	29	5.598
100%		-10	26	5.019
100%		0	25	4.826
100%		+10	24	4.633
100%		+20	20	3.861
100%		+30	28	5.405
100%		+40	26	5.019
100%		+50	23	4.440
115%		4.35	+20	29
85%	3.20	+20	30	5.792



<b>U-NII-2A (Ch. 52)</b>				
<b>5260MHz</b>				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	4.20	+20(Ref)	18	3.422
100%		-30	22	4.183
100%		-20	25	4.753
100%		-10	24	4.563
100%		0	19	3.612
100%		+10	18	3.422
100%		+20	21	3.992
100%		+30	26	4.943
100%		+40	30	5.703
100%		+50	25	4.753
115%	4.35	+20	19	3.612
85%	3.20	+20	22	4.183

<b>U-NII-2C (Ch. 100)</b>				
<b>5500MHz</b>				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	4.20	+20(Ref)	21	3.818
100%		-30	25	4.545
100%		-20	30	5.455
100%		-10	29	5.273
100%		0	22	4.000
100%		+10	20	3.636
100%		+20	24	4.364
100%		+30	32	5.818
100%		+40	34	6.182
100%		+50	25	4.545
115%	4.35	+20	27	4.909
85%	3.20	+20	30	5.455



<b>U-NII-3 (Ch. 149)</b>				
<b>5745MHz</b>				
VOLTAGE (%)	POWER (VDC)	TEMP (°C)	Fre. Dev. (kHz)	Deviation (ppm)
100%	4.20	+20(Ref)	22	3.829
100%		-30	26	4.526
100%		-20	27	4.700
100%		-10	21	3.655
100%		0	30	5.222
100%		+10	26	4.526
100%		+20	26	4.526
100%		+30	26	4.526
100%		+40	28	4.874
100%		+50	28	4.874
115%		4.35	+20	31
85%	3.20	+20	29	5.048



## 2.7. Conducted Emission

### 2.7.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

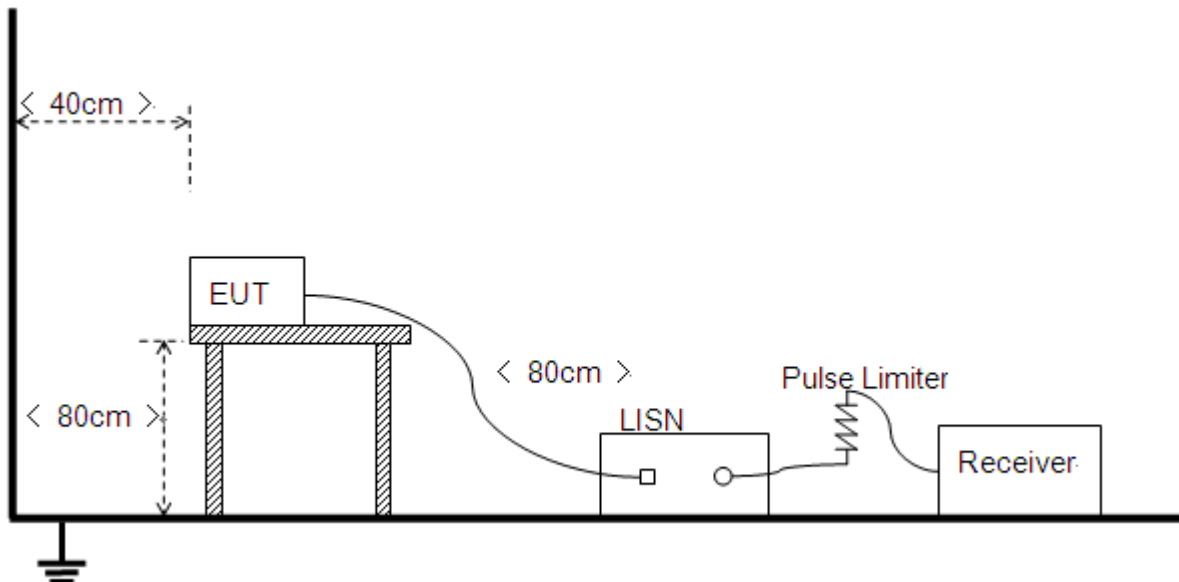
Frequency Range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

**Note:**

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

### 2.7.2. Test Description

**Test Setup:**



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.



### 2.7.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and Plot below.

**Note:** Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

#### A. Test Setup:

Test Mode: EUT+Adapter+PC +WIFI TX

Test Voltage: AC 120V/60Hz

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

$U_R$ : Receiver Reading

$A_{\text{Factor}}$ : Voltage division factor of LISN