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

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
Low	5190	12.30	9.40	14.10	0.02569	21.39	PASS
High	5230	12.80	9.50	14.47	0.02797		PASS

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

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
Low	5270	12.70	9.40	14.37	0.02733	21.39	PASS
High	5310	12.60	9.40	14.30	0.02691		PASS

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

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
Low	5510	10.60	9.30	13.01	0.01999	21.39	PASS
Mid	5550	14.80	12.10	16.67	0.04642		PASS
High	5670	8.60	7.70	11.18	0.01313		PASS

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

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
Low	5755	14.60	11.10	16.20	0.04172	27.39	PASS
High	5795	13.80	10.70	15.53	0.03574		PASS

IEEE 802.11ac 20 MHz mode / 5180 ~ 5240MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
Low	5180	15.53	12.83	17.40	0.05491	21.39	PASS
Mid	5200	15.15	12.15	16.91	0.04914		PASS
High	5240	12.65	12.68	15.68	0.03694		PASS

IEEE 802.11ac 20 MHz mode / 5260~ 5320MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
Low	5260	15.88	12.68	17.58	0.05726	21.39	PASS
Mid	5300	15.95	13.21	17.80	0.06030		PASS
High	5320	15.85	12.90	17.63	0.05796		PASS

IEEE 802.11ac 20 MHz mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
Low	5500	15.61	12.51	17.34	0.05422	21.39	PASS
Mid	5580	17.40	15.00	19.37	0.08658		PASS
High	5700	12.30	9.86	14.26	0.02667		PASS

IEEE 802.11ac 20 MHz mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
Low	5745	17.93	15.26	19.81	0.09566	27.39	PASS
Mid	5785	14.06	16.66	18.56	0.07181		PASS
High	5825	17.68	14.96	19.54	0.08995		PASS

IEEE 802.11ac 40 MHz mode / 5190 ~ 5230MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
Low	5190	14.66	12.10	16.58	0.04546	21.39	PASS
High	5230	14.85	12.30	16.77	0.04753		PASS

IEEE 802.11ac40 MHz mode / 5270 ~ 5310MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
Low	5270	15.06	11.80	16.74	0.04720	21.39	PASS
High	5310	15.32	12.45	17.13	0.05162		PASS

IEEE 802.11ac 40 MHz mode / 5510 ~ 5670MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
Low	5510	12.56	10.15	14.53	0.02838	21.39	PASS
Mid	5550	11.96	9.65	13.97	0.02493		PASS
High	5670	11.00	8.02	12.77	0.01893		PASS

IEEE 802.11ac 40 MHz mode / 5755 ~ 5795MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
Low	5755	9.73	13.08	14.73	0.02972	27.39	PASS
High	5795	11.74	8.68	13.48	0.02231		PASS

IEEE 802.11ac 80 mode / 5210MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
	5210	11.60	8.50	13.33	0.02153	21.39	PASS

IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
	5290	19.70	8.10	19.99	0.09978	21.39	PASS

IEEE 802.11ac 80 mode / 5530MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
	5530	9.90	10.10	13.01	0.02001	21.39	PASS

IEEE 802.11ac 80 mode / 5775MHz

Channel	Frequency (MHz)	AVG Output Power (dBm)			AVG Output Power (W)	Limit (dBm)	Result
		Antenna 0	Antenna 1	Total			
	5775	15.50	13.00	17.44	0.05543	27.39	PASS

6.5 BAND EDGES MEASUREMENT

6.5.1 LIMIT

According to §15.407(b)

(1) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.

(2) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

6.5.2 MEASUREMENT EQUIPMENT USED

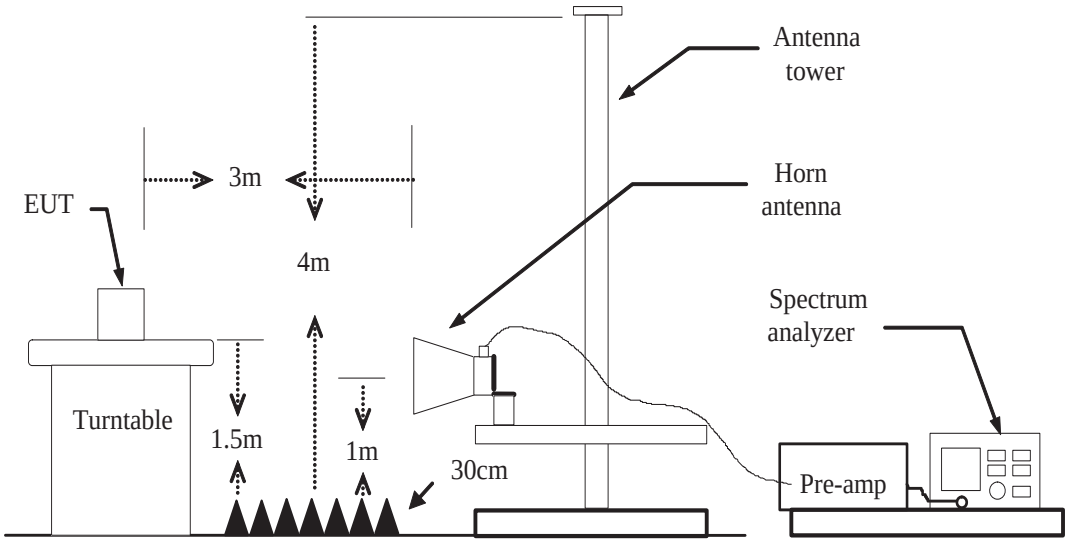
Radiated Emission Test Site 966（2）					
Name of Equipment	**Manufacturer**	**Model Number**	**Serial Number**	**Last Calibration**	**Due Calibration**
PSA Series Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2017	02/20/2018
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2017	02/20/2018
Amplifier	EMEC	EM330	060661	03/18/2017	03/17/2018
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2017	02/20/2018
Loop Antenna	COM-POWER	AL-130	121044	09/25/2016	09/24/2017
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2017	02/20/2018
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/27/2017	02/26/2018
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/27/2017	02/26/2018
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/21/2017	02/20/2018
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The FCC Site Registration number is 101879.

3. N.C.R = No Calibration Required.

6.5.3 TEST CONFIGURATION



6.5.4 TEST PROCEDURE

1. The EUT is placed on a turntable, which is 1.5m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
   (a) PEAK: RBW=1 / VBW=3MHz / Sweep=AUTO
   (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO / Detector=Peak
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

6.5.5 TEST RESULT

IEEE 802.11a mode / 5500 ~ 5700MHz

Antenna 0:

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 24.56MHz, CH High: 20.04MHz
4. Frequency Range: 5487.7200MHz, 5710.0200MHz

Antenna 1:

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 19.71MHz, CH High:19.55MHz
4. Frequency Range: 5490.145MHz, 5709.7750MHz

IEEE 802.11a mode / 5745 ~ 5825MHz

Antenna 0:

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 21.28MHz, CH High: 19.80MHz
4. Frequency Range: 5734.3600MHz, 5834.9000MHz

Antenna 1:

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 19.84MHz, CH High: 19.73MHz
4. Frequency Range: 5735.0800MHz, 5834.8650MHz

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

Antenna 0:

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 20.25MHz, CH High: 20.09MHz
4. Frequency Range: 5489.8750MHz, 5710.8100MHz

Antenna 1:

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 20.10MHz, CH High: 20.19MHz
4. Frequency Range: 5489.9500MHz, 5710.0450MHz

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

Antenna 0:

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 20.81MHz, CH High: 20.14MHz
4. Frequency Range: 5734.5950MHz, 5835.0700MHz

Antenna 1:

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 20.14MHz, CH High: 20.21MHz
4. Frequency Range: 5734.9300MHz, 5835.1050MHz

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

Antenna 0:

1. Operating Frequency: 5510-5670MHz
2. CH Low: 5510MHz, CH High: 5670MHz
3. 26dB bandwidth: CH Low: 40.72MHz, CH High: 40.72MHz
4. Frequency Range: 5489.6400MHz, 5690.3600MHz

Antenna 1:

1. Operating Frequency: 5510-5670MHz
2. CH Low: 5510MHz, CH High: 5670MHz
3. 26dB bandwidth: CH Low: 40.03MHz, CH High: 40.72MHz
4. Frequency Range: 5489.9850MHz, 5690.3600MHz

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

Antenna 0:

1. Operating Frequency: 5755-5795MHz
2. CH Low: 5755MHz, CH High: 5795MHz
3. 26dB bandwidth: CH Low: 42.45MHz, CH High: 40.72MHz
4. Frequency Range: 5733.7750MHz, 5815.3600MHz

Antenna 1:

1. Operating Frequency: 5755-5795MHz
2. CH Low: 5755MHz, CH High: 5795MHz
3. 26dB bandwidth: CH Low: 40.62MHz, CH High: 40.63MHz
4. Frequency Range: 5734.6900MHz, 5815.3150MHz

IEEE 802.11ac 20 MHz mode / 5500 ~ 5700MHz

Antenna 0:

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 20.30MHz, CH High: 20.08MHz
4. Frequency Range: 5489.8500MHz, 5710.0400MHz

Antenna 1:

1. Operating Frequency: 5500-5700MHz
2. CH Low: 5500MHz, CH High: 5700MHz
3. 26dB bandwidth: CH Low: 20.06MHz, CH High: 20.06MHz
4. Frequency Range: 5489.9700MHz, 5710.0300MHz

IEEE 802.11ac 20 MHz mode / 5745 ~ 5825MHz

Antenna 0:

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 20.11MHz, CH High: 20.18MHz
4. Frequency Range: 5734.9450MHz, 5835.0900MHz

Antenna 1:

1. Operating Frequency: 5745-5825MHz
2. CH Low: 5745MHz, CH High: 5825MHz
3. 26dB bandwidth: CH Low: 20.14MHz, CH High: 20.32MHz
4. Frequency Range: 5734.9300MHz, 5835.1600MHz

IEEE 802.11ac 40 MHz mode / 5510~ 5670MHz

Antenna 0:

1. Operating Frequency: 5510-5670MHz
2. CH Low: 5510MHz, CH High: 5670MHz
3. 26dB bandwidth: CH Low: 40.59MHz, CH High: 40.68MHz
4. Frequency Range: 5489.7050MHz, 5690.3400MHz

Antenna 1:

1. Operating Frequency: 5510-5670MHz
2. CH Low: 5510MHz, CH High: 5670MHz
3. 26dB bandwidth: CH Low: 40.67MHz, CH High: 40.59MHz
4. Frequency Range: 5489.6650MHz, 5690.2950MHz

IEEE 802.11ac 40 MHz mode / 5755 ~ 5795MHz

Antenna 0:

1. Operating Frequency: 5755-5795MHz
2. CH Low: 5755MHz, CH High: 5795MHz
3. 26dB bandwidth: CH Low: 41.06MHz, CH High: 40.44MHz
4. Frequency Range: 5734.4700MHz, 5815.2200MHz

Antenna 1:

1. Operating Frequency: 5755-5795MHz
2. CH Low: 5755MHz, CH High: 5795MHz
3. 26dB bandwidth: CH Low: 40.49MHz, CH High: 40.42MHz
4. Frequency Range: 5734.7550MHz, 5815.2100MHz

IEEE 802.11ac 80 mode / 5530MHz

Antenna 0:

1. Operating Frequency: 5530MHz
2. CH: 5530MHz
3. 26dB bandwidth: CH: 81.64MHz
4. Frequency Range: 5489.1800MHz, 5570.8200MHz

Antenna 1:

1. Operating Frequency: 5530MHz
2. CH: 5530MHz
3. 26dB bandwidth: CH: 81.68MHz
4. Frequency Range: 5489.1600MHz, 5570.8400MHz

IEEE 802.11ac 80 mode / 5775MHz

Antenna 0:

1. Operating Frequency: 5775MHz
2. CH: 5775MHz
3. 26dB bandwidth: CH: 119.80MHz
4. Frequency Range: 5715.1000MHz, 5834.9000MHz

Antenna 1:

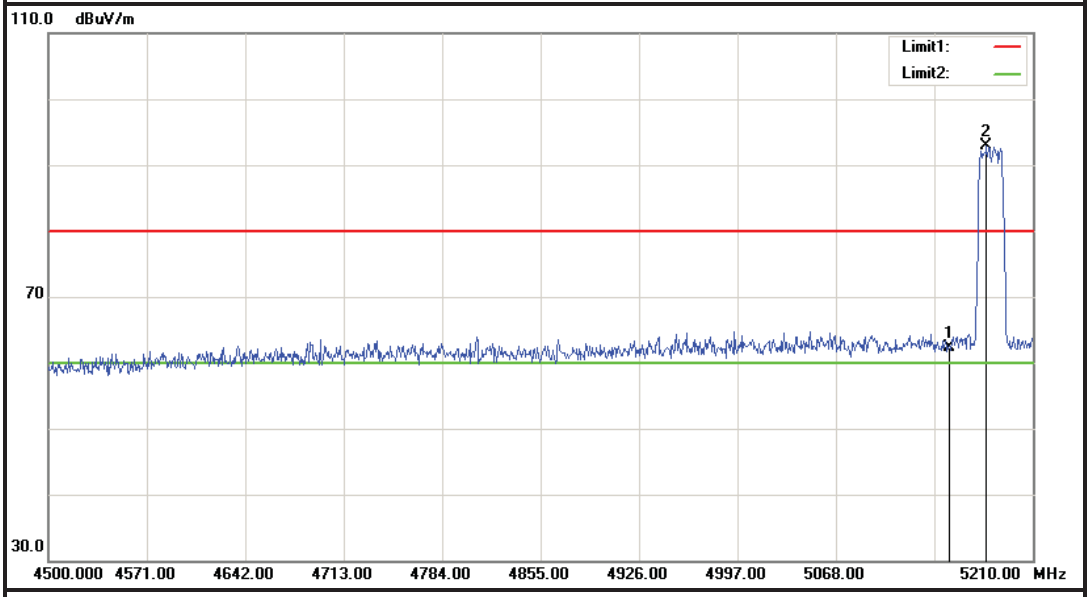
1. Operating Frequency: 5775MHz
2. CH: 5775MHz
3. 26dB bandwidth: CH: 92.49MHz
4. Frequency Range: 5728.7550MHz, 5821.2450MHz

Because the mentioned conditions the Fundamental Frequency Range was far away from the restricted bands in the table published in 15.205, the test is not applicable.

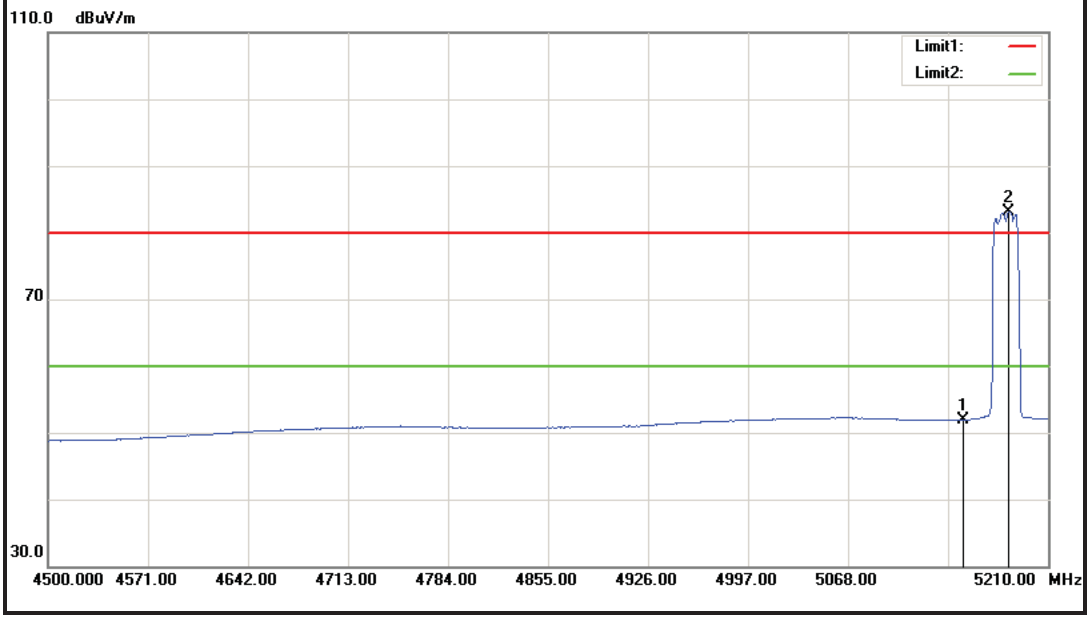
Test Plot

IEEE 802.11a mode / 5180MHz(Antenna 0)

Detector mode: Peak **Polarity: Vertical**

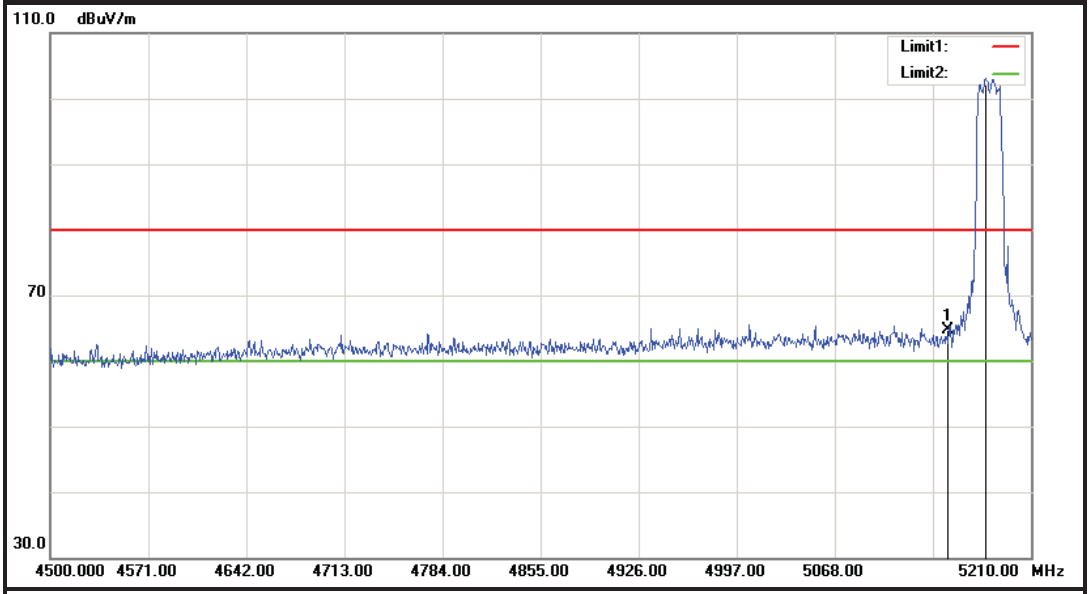


Detector mode: Average **Polarity: Vertical**

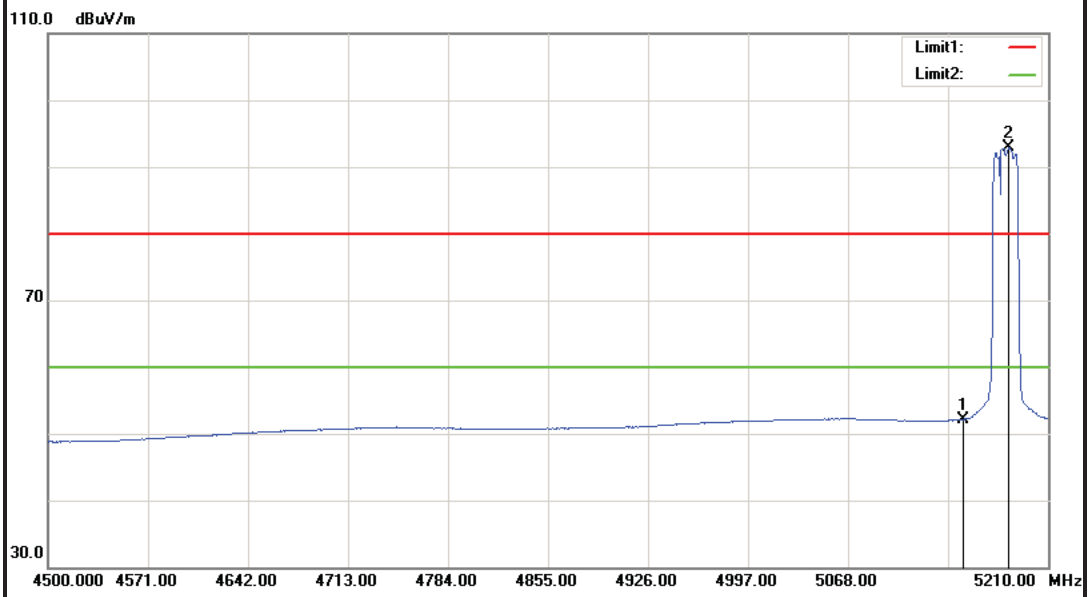


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	57.12	5.25	62.37	80.00	-17.63	Vertical	Vertical
2	5176.630	87.58	5.29	92.87	---	---	Vertical	Vertical
1	5150.000	46.71	5.25	51.96	60.00	-8.04	Vertical	Vertical
2	5182.310	77.89	5.30	83.19	---	---	Vertical	Vertical

Detector mode: Peak **Polarity: Horizontal**



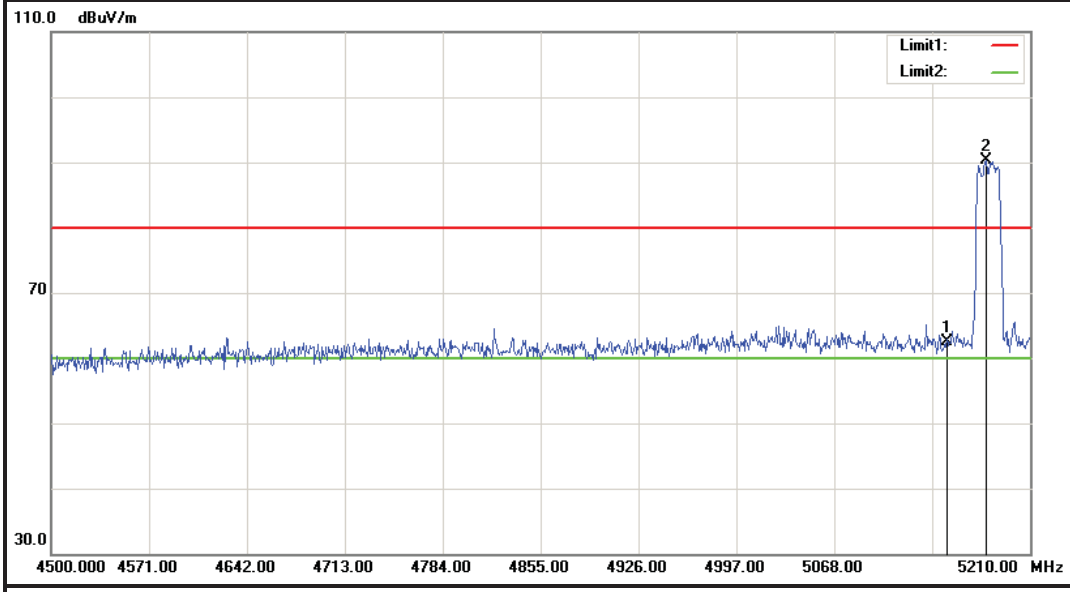
Detector mode: Average **Polarity: Horizontal**



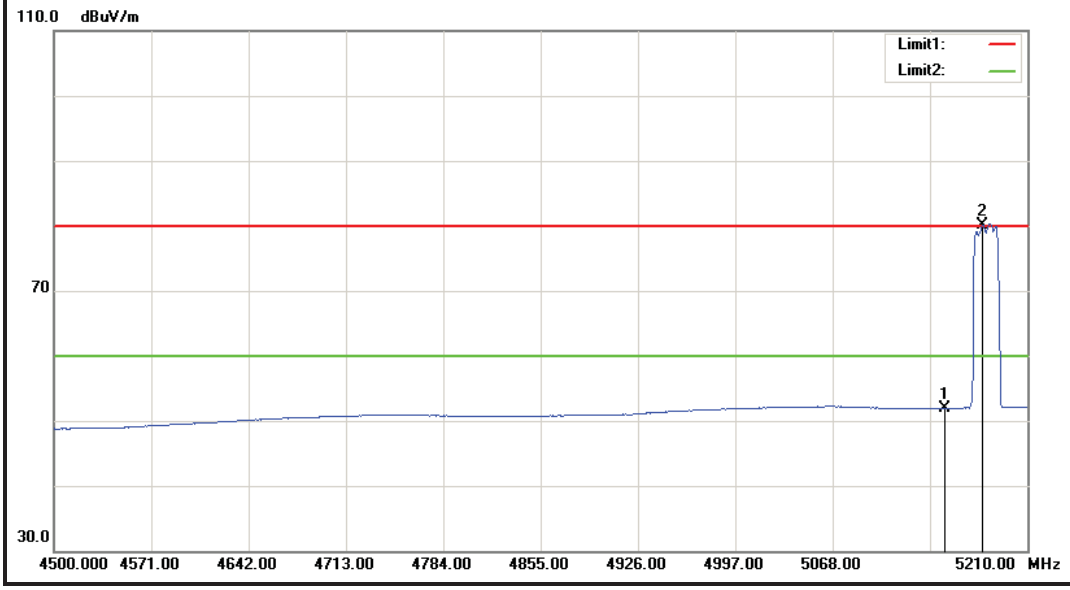
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	59.45	5.25	64.70	80.00	-15.30	Peak	Horizontal
2	5177.340	97.76	5.30	103.06	---	---	Peak	Horizontal
1	5150.000	46.94	5.25	52.19	60.00	-7.81	Average	Horizontal
2	5182.310	87.62	5.30	92.92	---	---	Average	Horizontal

IEEE 802.11a mode / 5180MHz(Antenna 1)

Detector mode: Peak **Polarity: Vertical**

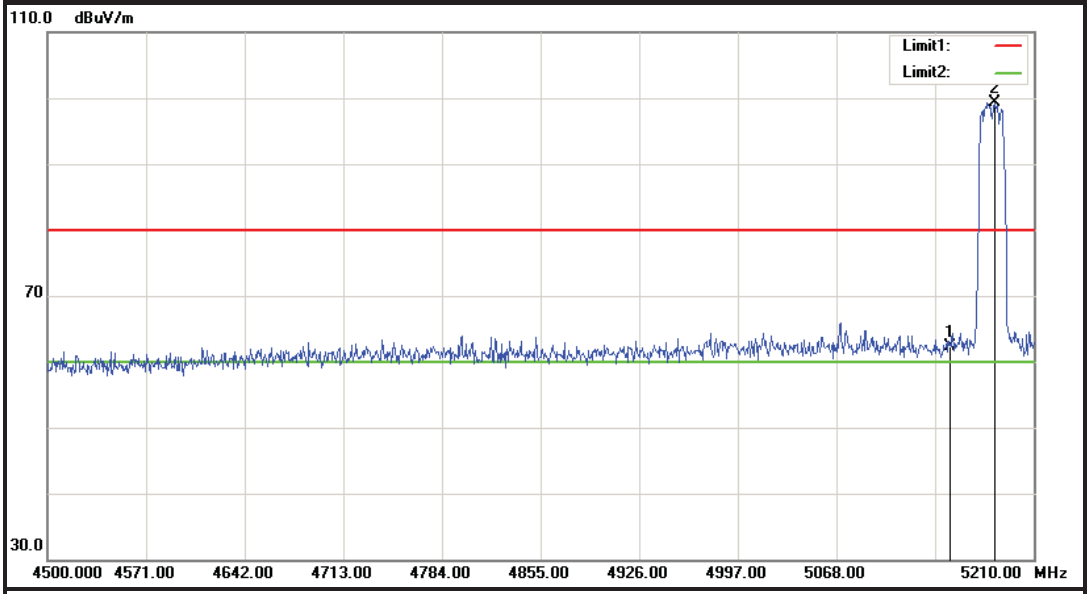


Detector mode: Average **Polarity: Vertical**

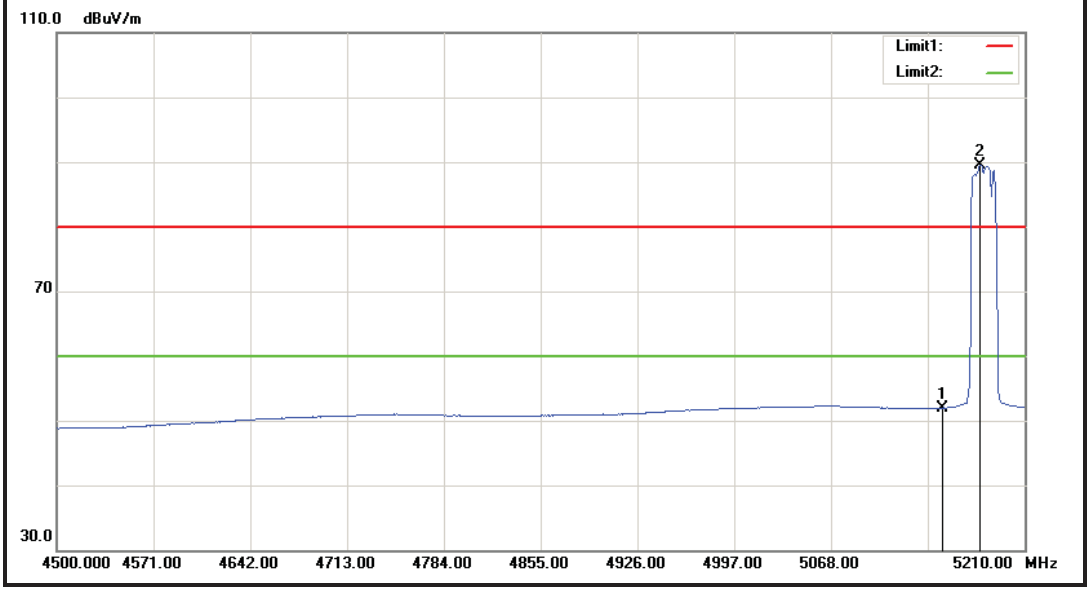


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	57.17	5.25	62.42	80.00	-17.58	Peak	Vertical
2	5178.050	84.94	5.30	90.24	---	---	Peak	Vertical
1	5150.000	46.65	5.25	51.90	60.00	-8.10	Average	Vertical
2	5177.340	74.78	5.30	80.08	---	---	Average	Vertical

Detector mode: Peak **Polarity: Horizontal**



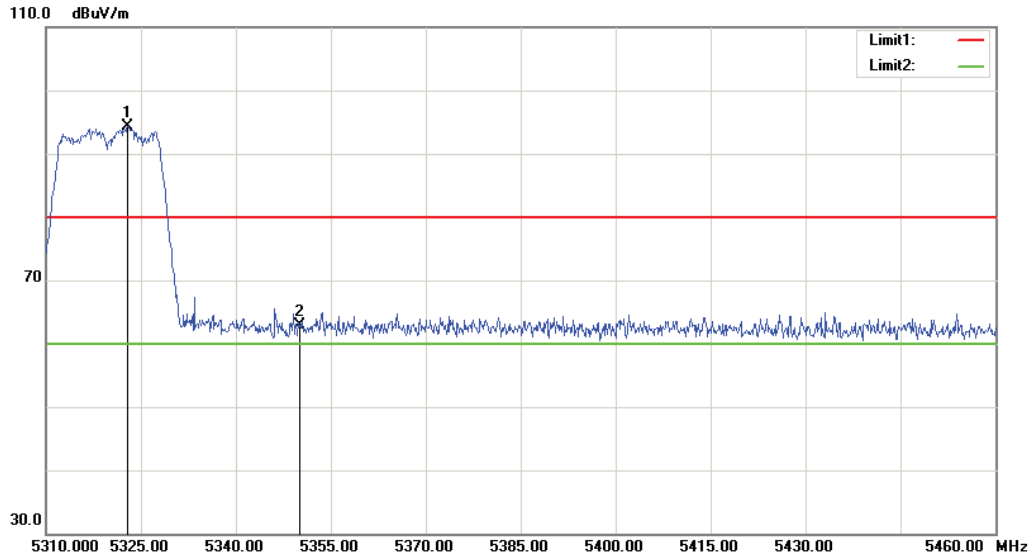
Detector mode: Average **Polarity: Horizontal**



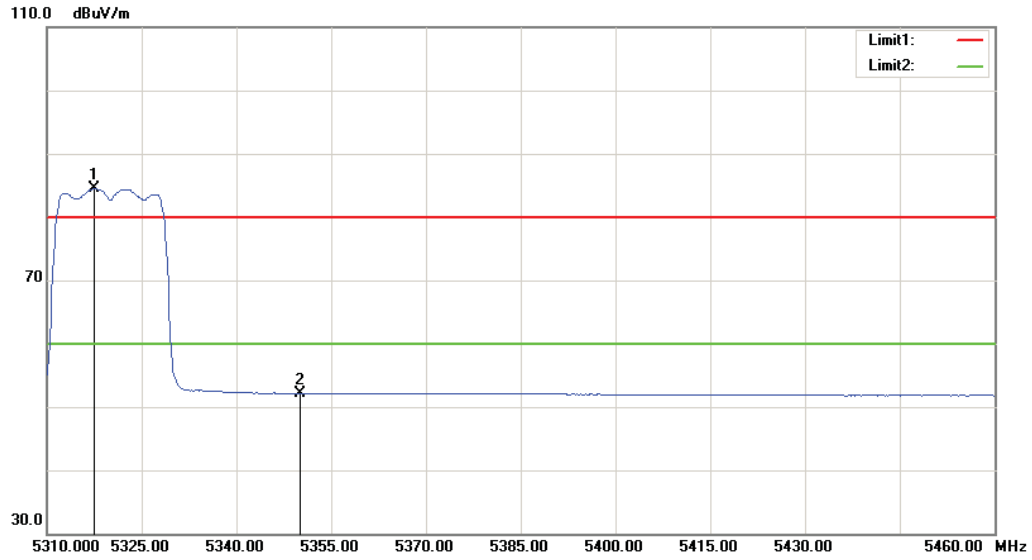
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	57.07	5.25	62.32	80.00	-17.68	Peak	Horizontal
2	5181.600	94.05	5.30	99.35	---	---	Peak	Horizontal
1	5150.000	46.74	5.25	51.99	60.00	-8.01	Average	Horizontal
2	5177.340	84.15	5.30	89.45	---	---	Average	Horizontal

IEEE 802.11a mode / 5320MHz(Antenna 0)

Detector mode: Peak **Polarity: Vertical**

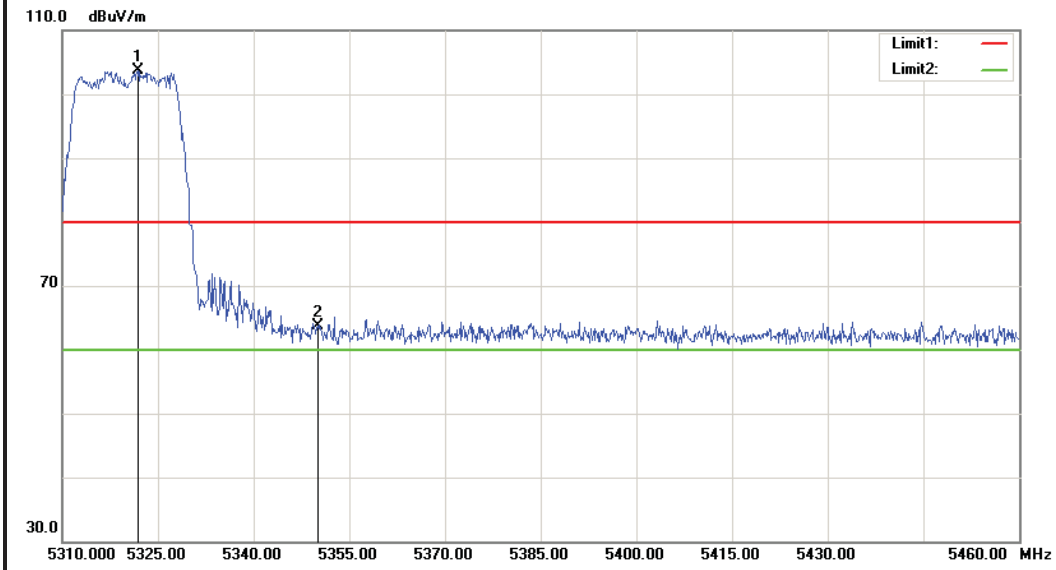


Detector mode: Average **Polarity: Vertical**

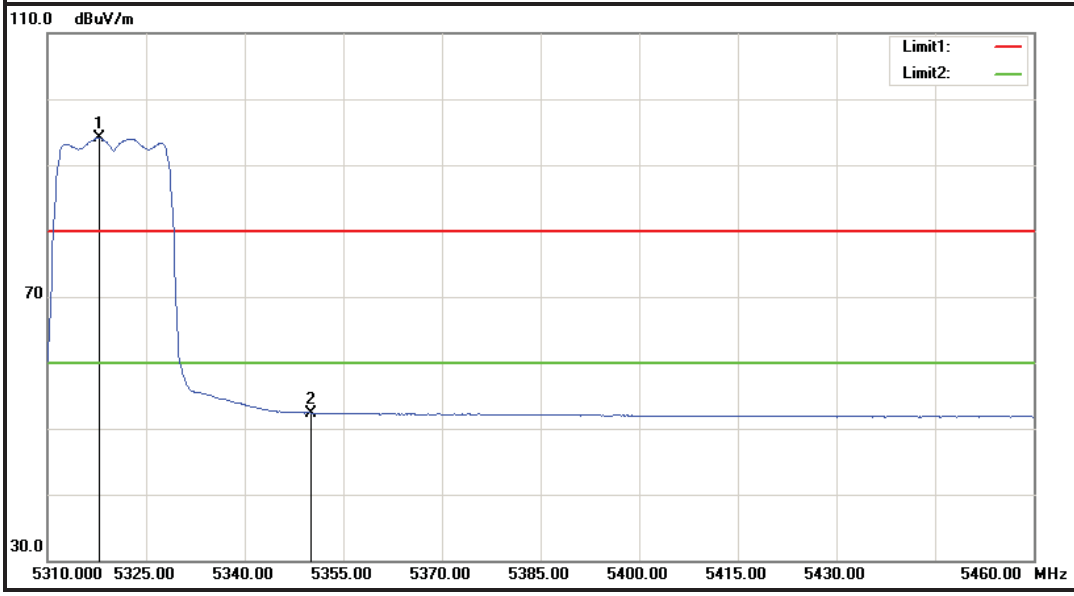


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5322.900	88.75	5.55	94.30	---	---	Peak	Vertical
2	5350.000	57.23	5.60	62.83	80.00	-17.17	Peak	Vertical
1	5317.500	78.97	5.55	84.52	---	---	Average	Vertical
2	5350.000	46.56	5.60	52.16	80.00	-27.84	Average	Vertical

Detector mode: Peak **Polarity: Horizontal**



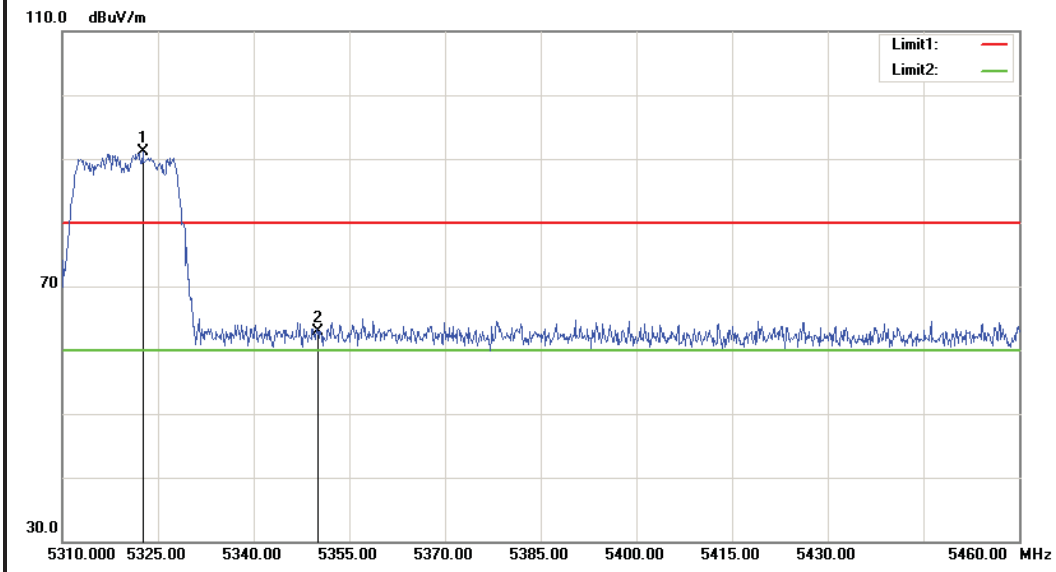
Detector mode: Average **Polarity: Horizontal**



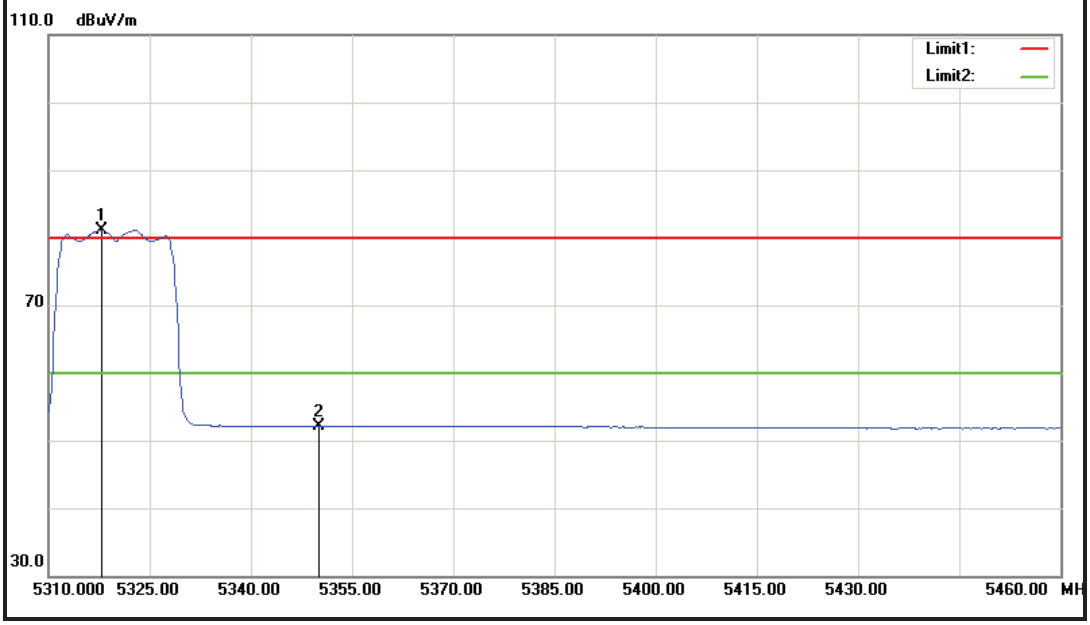
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5321.850	98.12	5.55	103.67	---	---	Peak	Horizontal
2	5350.000	58.18	5.60	63.78	80.00	-16.22	Peak	Horizontal
1	5317.800	88.59	5.55	94.14	---	---	Average	Horizontal
2	5350.000	46.79	5.60	52.39	60.00	-7.61	Average	Horizontal

IEEE 802.11a mode / 5320MHz(Antenna 1)

Detector mode: Peak **Polarity: Vertical**

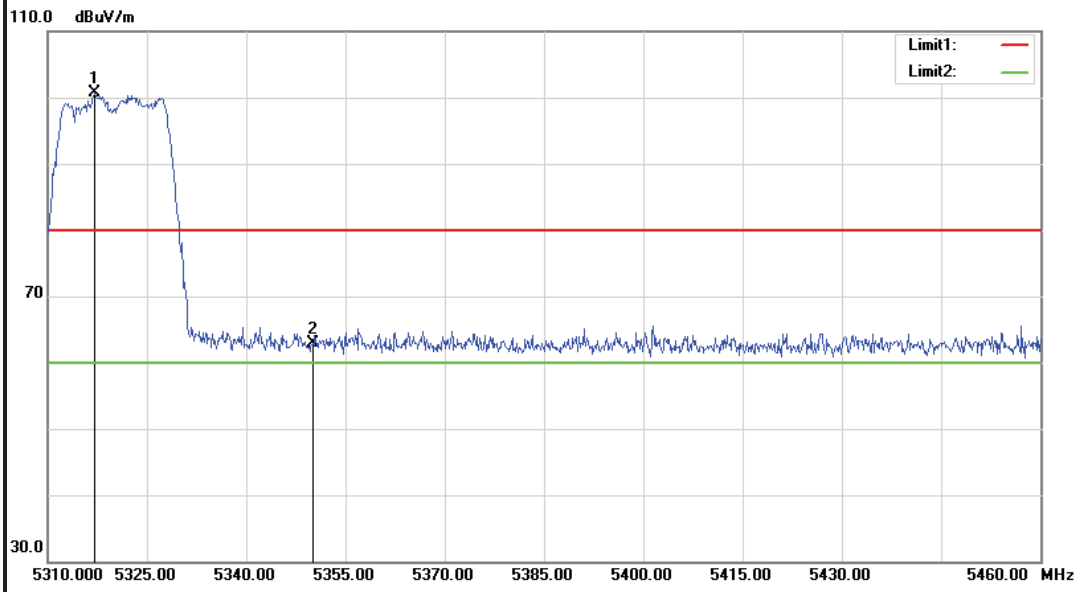


Detector mode: Average **Polarity: Vertical**

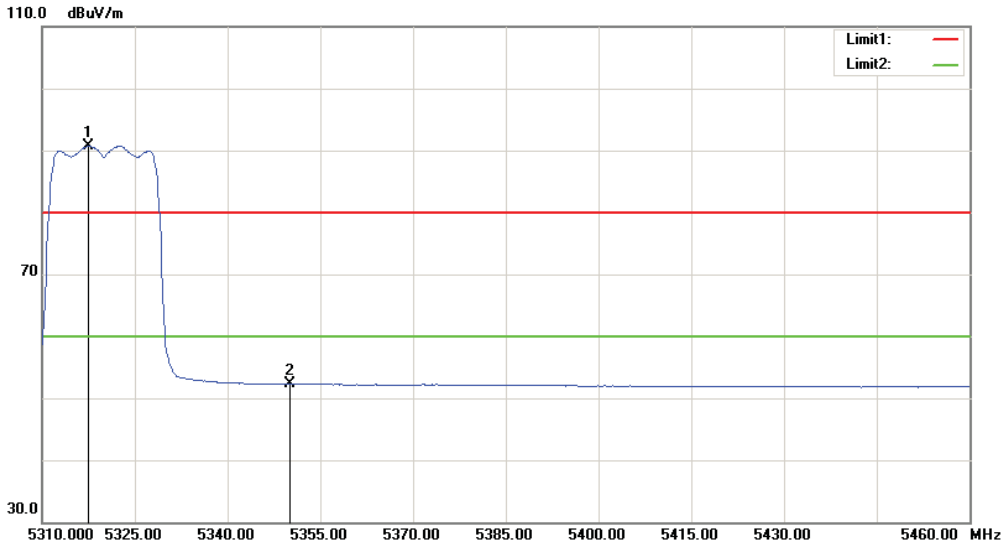


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5322.600	85.51	5.55	91.06	---	---	Peak	Vertical
2	5350.000	57.21	5.60	62.81	80.00	-17.19	Peak	Vertical
1	5317.800	75.54	5.55	81.09	---	---	Average	Vertical
2	5350.000	46.53	5.60	52.13	60.00	-7.87	Average	Vertical

Detector mode: Peak **Polarity: Horizontal**



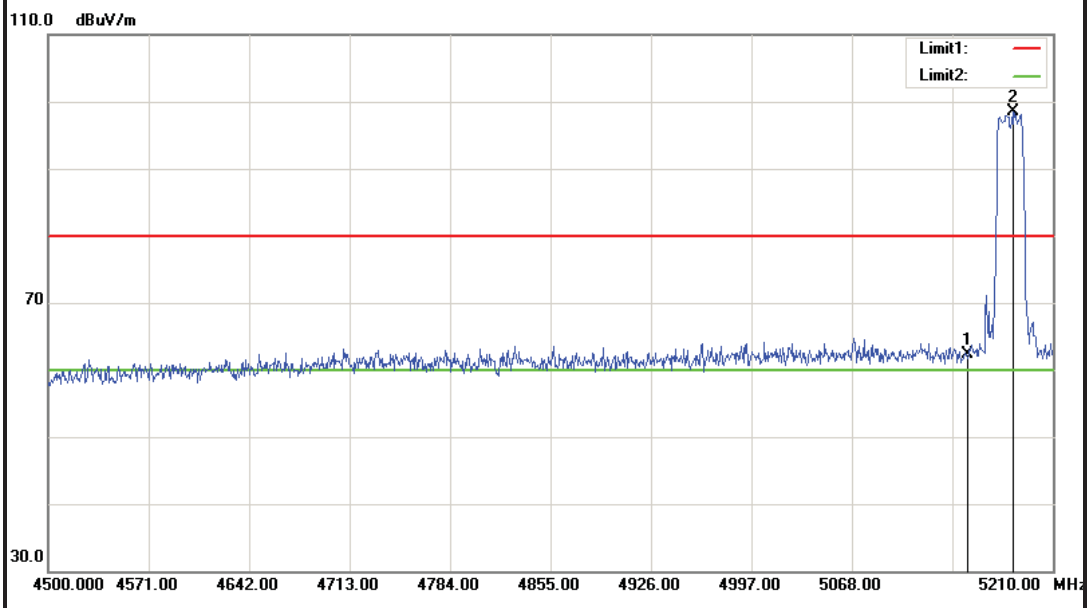
Detector mode: Average **Polarity: Horizontal**



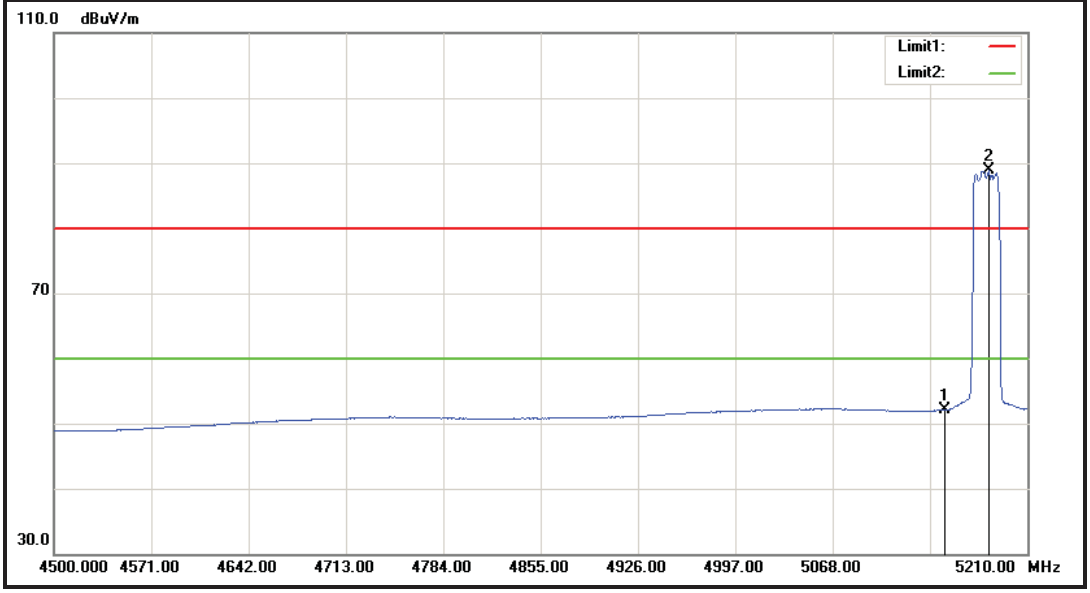
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5317.050	95.18	5.54	100.72	---	---	Peak	Horizontal
2	5350.000	57.27	5.60	62.87	80.00	-17.13	Peak	Horizontal
1	5317.500	85.16	5.55	90.71	---	---	Average	Horizontal
2	5350.000	46.68	5.60	52.28	60.00	-7.72	Average	Horizontal

IEEE 802.11n HT 20 MHz mode / 5180MHz(Combine with Antenna 0+ Antenna 1)

Detector mode: Peak **Polarity: Vertical**

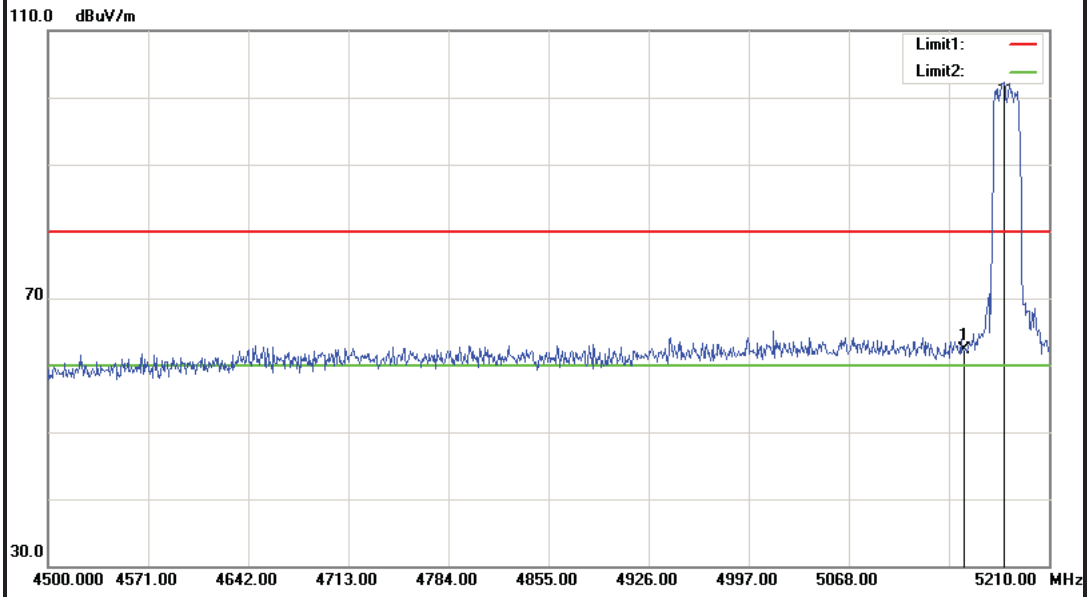


Detector mode: Average **Polarity: Vertical**

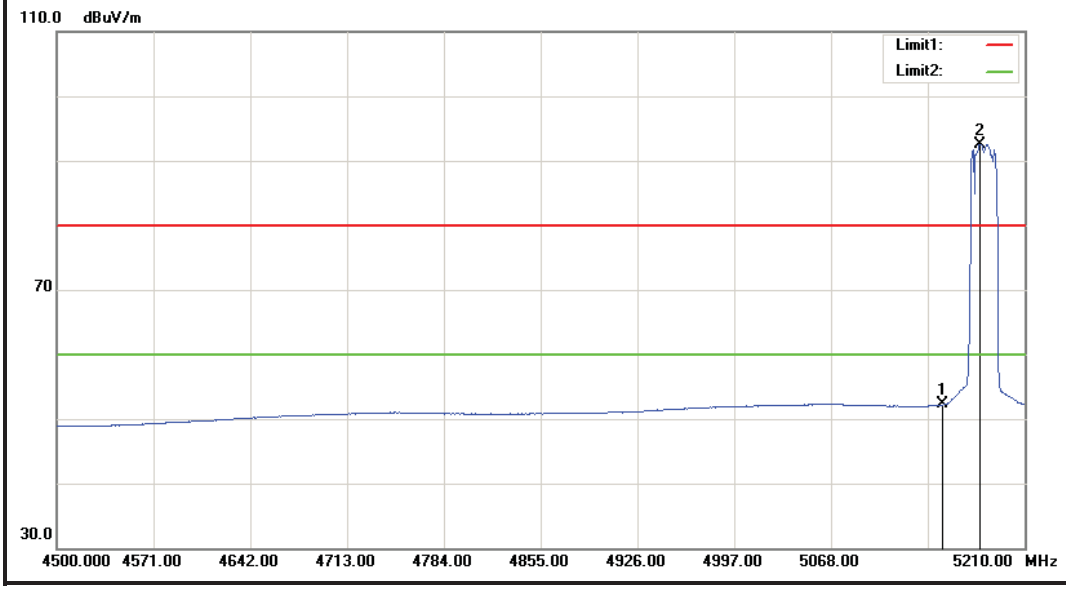


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	57.07	5.25	62.32	80.00	-17.68	Peak	Vertical
2	5181.600	93.18	5.30	98.48	---	---	Peak	Vertical
1	5150.000	46.88	5.25	52.13	60.00	-7.87	Average	Vertical
2	5182.310	83.56	5.30	88.86	---	---	Average	Vertical

Detector mode: Peak **Polarity: Horizontal**



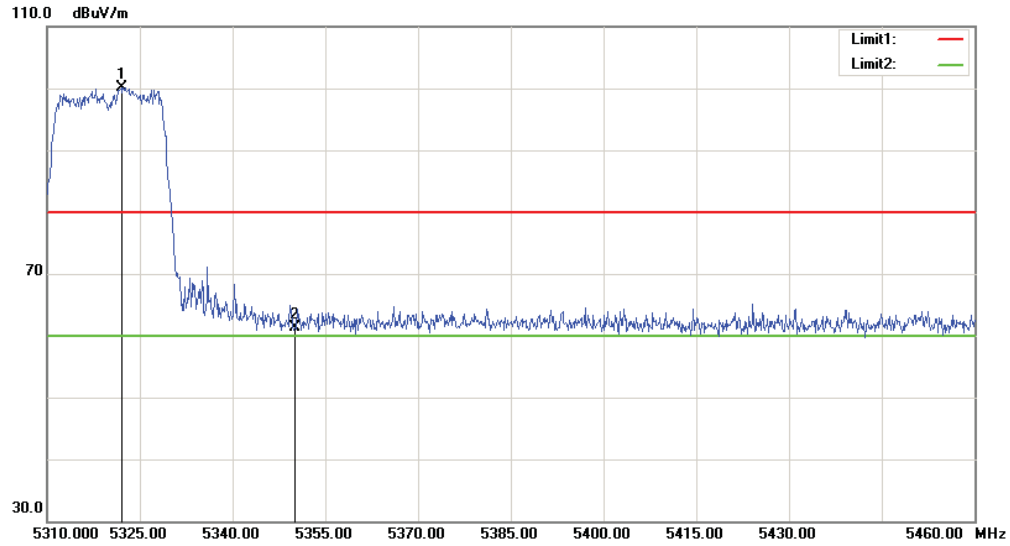
Detector mode: Average **Polarity: Horizontal**



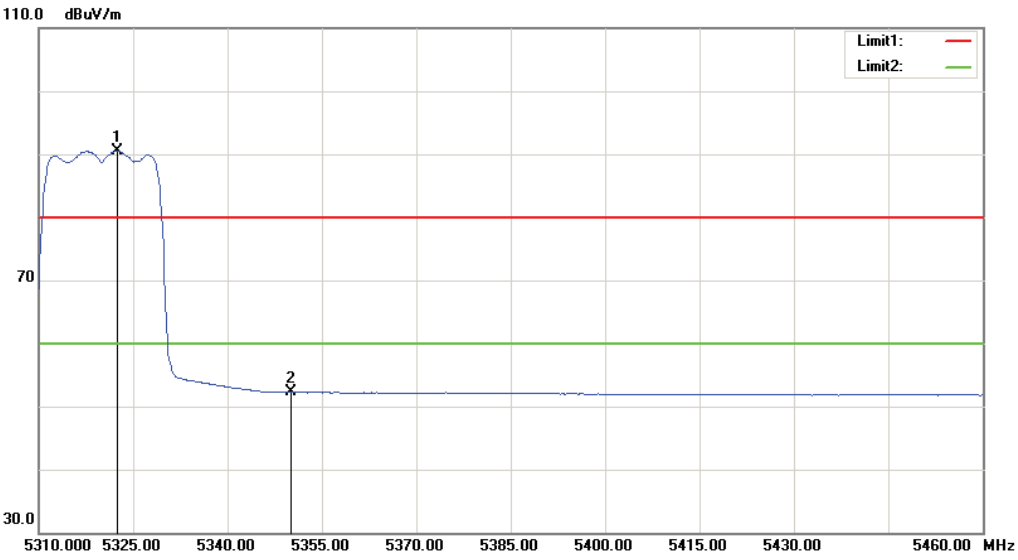
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	57.04	5.25	62.29	80.00	-17.71	Peak	Horizontal
2	5178.050	97.06	5.30	102.36	---	---	Peak	Horizontal
1	5150.000	47.01	5.25	52.26	60.00	-7.74	Average	Horizontal
2	5177.340	87.26	5.30	92.56	---	---	Average	Horizontal

IEEE 802.11n HT 20 MHz mode / 5320MHz(Combine with Antenna 0+ Antenna 1)

Detector mode: Peak **Polarity: Vertical**

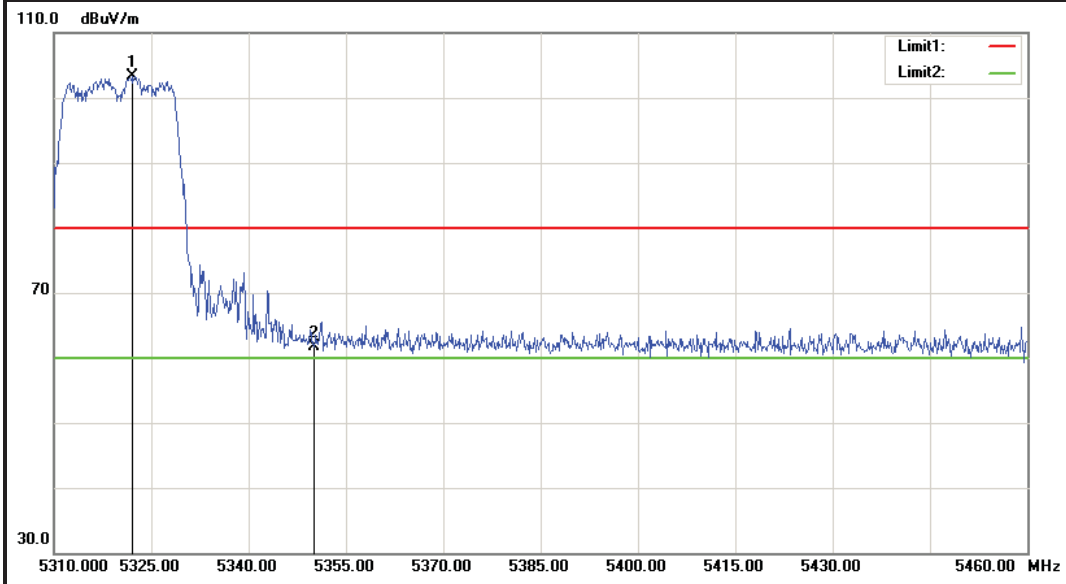


Detector mode: Average **Polarity: Vertical**

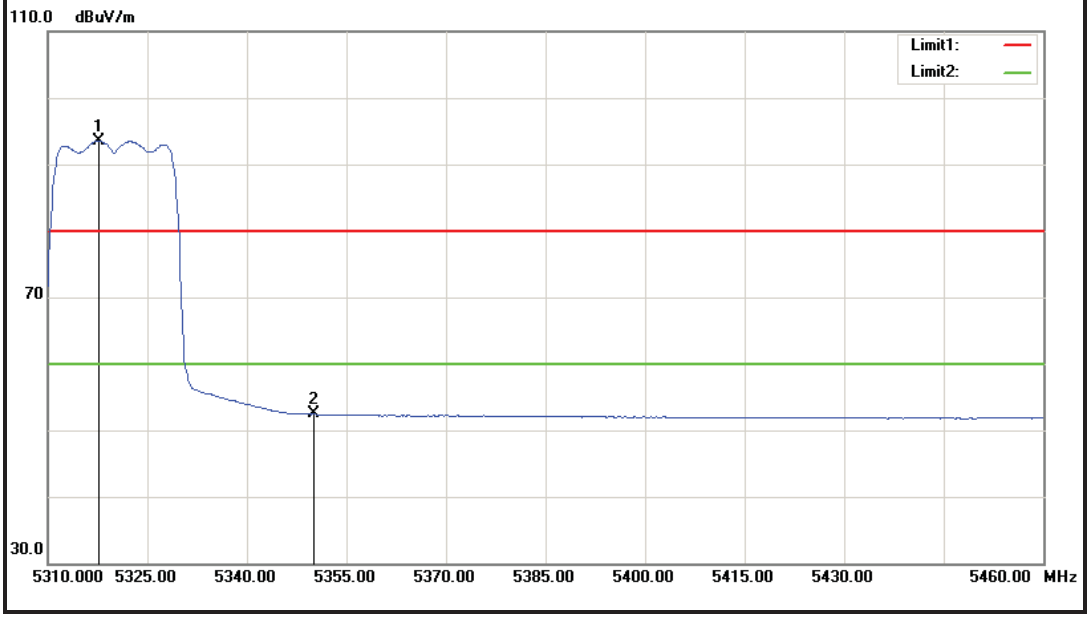


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5322.000	94.58	5.55	100.13	---	---	Peak	Vertical
2	5350.000	55.74	5.60	61.34	80.00	-18.66	Peak	Vertical
1	5322.450	84.93	5.55	90.48	---	---	Average	Vertical
2	5350.000	46.65	5.60	52.25	60.00	-7.75	Average	Vertical

Detector mode: Peak **Polarity: Horizontal**



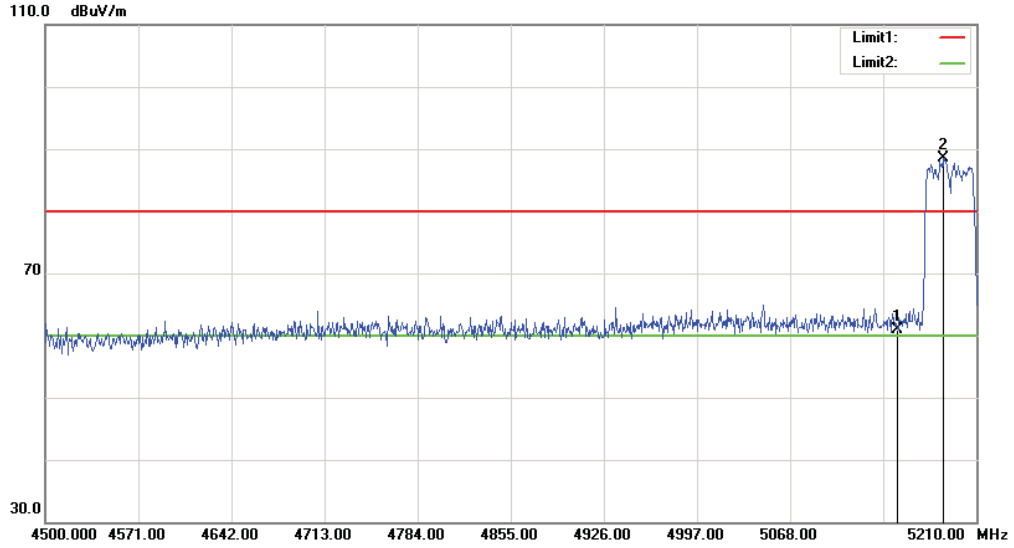
Detector mode: Average **Polarity: Horizontal**



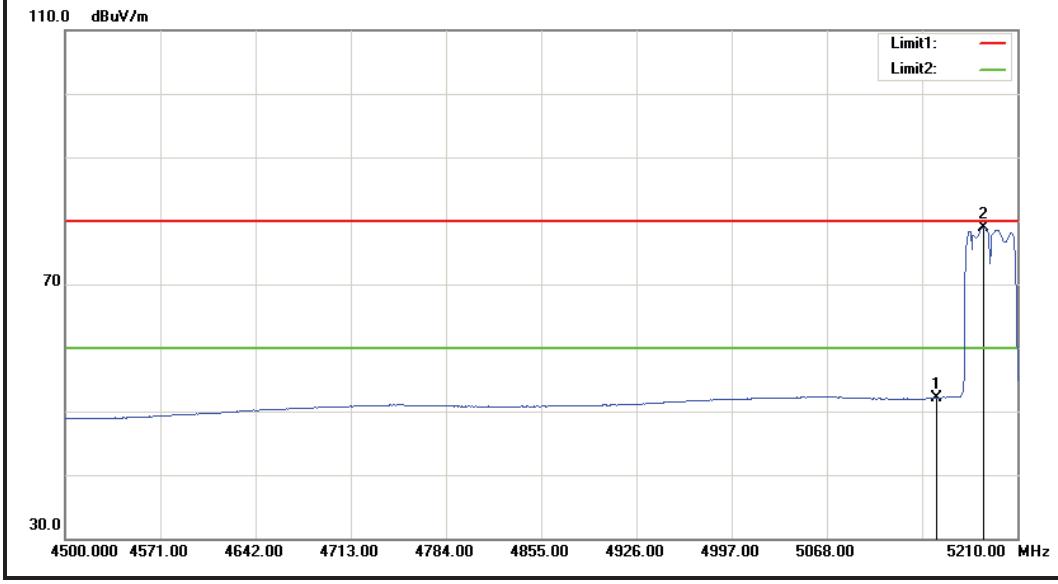
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5322.150	97.67	5.55	103.22	---	---	Peak	Horizontal
2	5350.000	56.13	5.60	61.73	80.00	-18.27	Peak	Horizontal
1	5317.650	87.99	5.55	93.54	---	---	Average	Horizontal
2	5350.000	46.81	5.60	52.41	60.00	-7.59	Average	Horizontal

IEEE 802.11n HT 40 MHz mode / 5190 MHz (Combine with Antenna 0+ Antenna 1)

Detector mode: Peak **Polarity: Vertical**

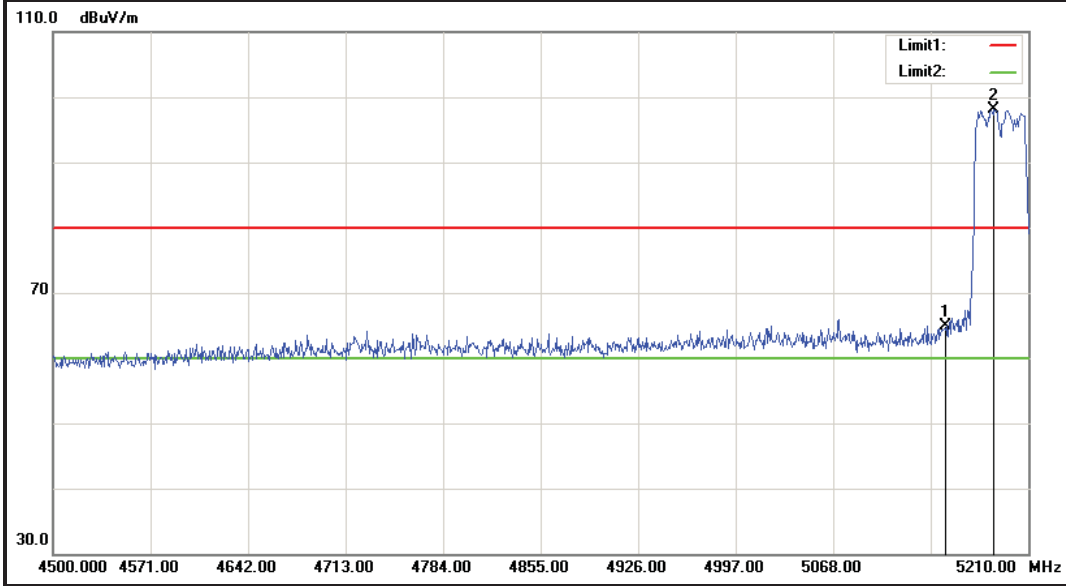


Detector mode: Average **Polarity: Vertical**

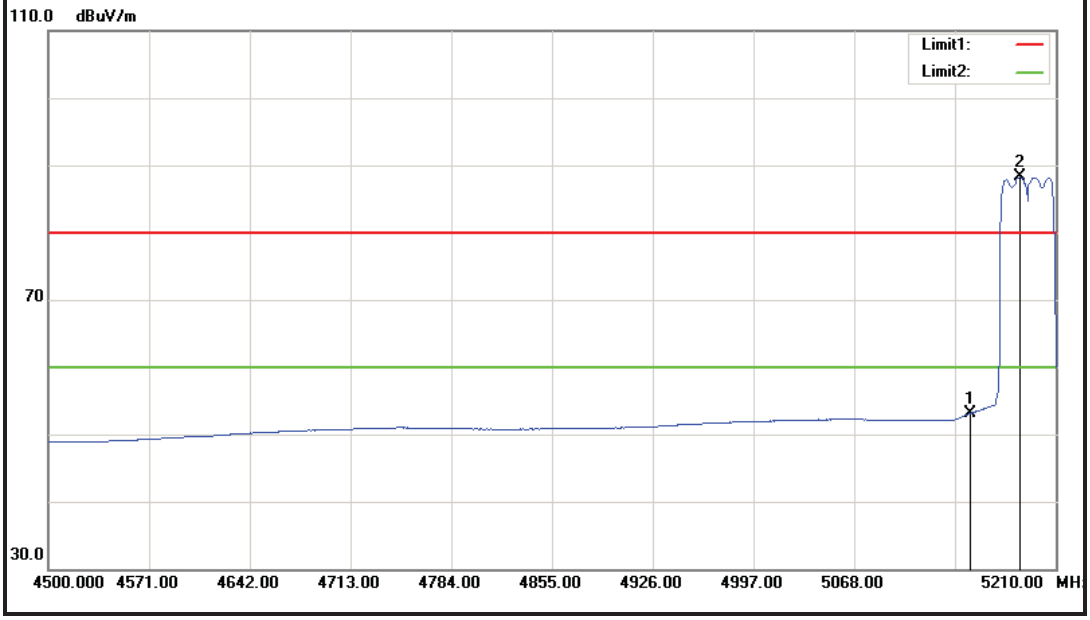


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	55.71	5.25	60.96	80.00	-19.04	Peak	Vertical
2	5184.440	83.24	5.31	88.55	---	---	Peak	Vertical
1	5150.000	46.86	5.25	52.11	60.00	-7.89	Average	Vertical
2	5184.440	73.65	5.31	78.96	---	---	Average	Vertical

Detector mode: Peak **Polarity: Horizontal**



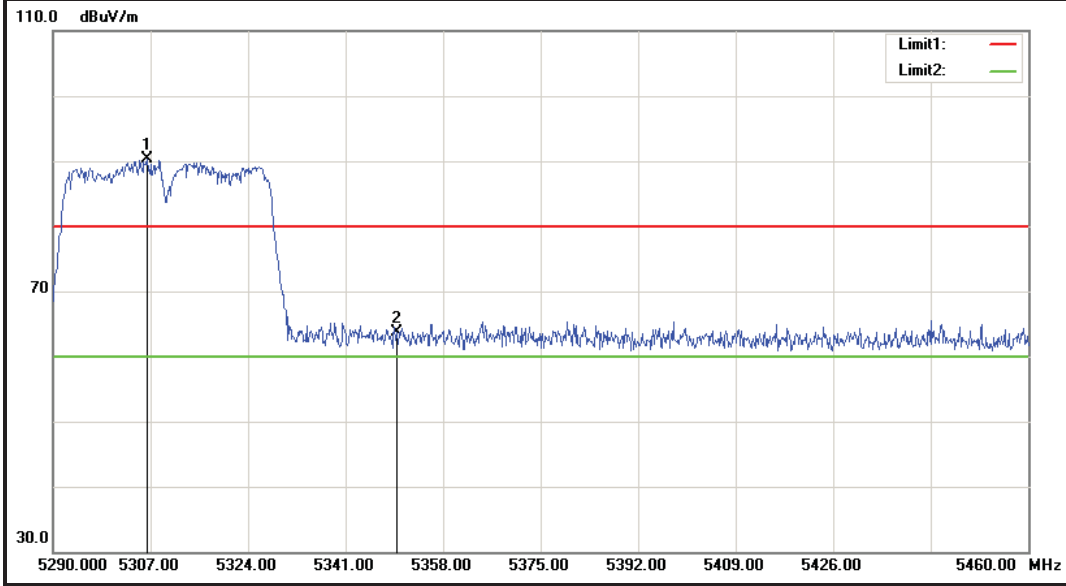
Detector mode: Average **Polarity: Horizontal**



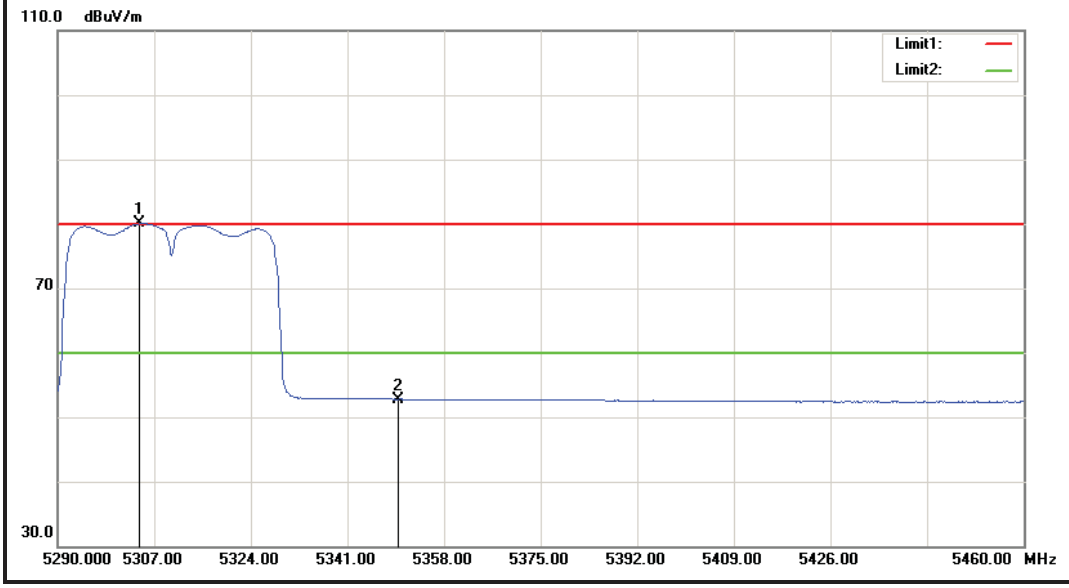
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	59.61	5.25	64.86	80.00	-15.14	Peak	Horizontal
2	5185.150	92.70	5.31	98.01	---	---	Peak	Horizontal
1	5150.000	47.92	5.25	53.17	60.00	-6.83	Average	Horizontal
2	5184.440	82.94	5.31	88.25	---	---	Average	Horizontal

IEEE 802.11n HT 40 MHz mode / 5310 MHz (Combine with Antenna 0+ Antenna 1)

Detector mode: Peak **Polarity: Vertical**

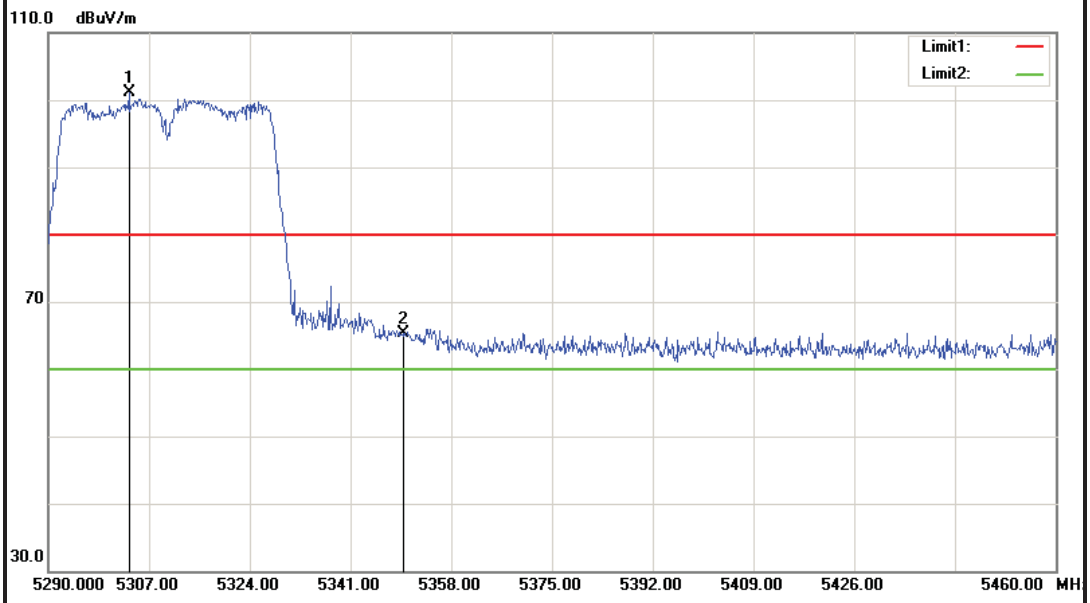


Detector mode: Average **Polarity: Vertical**

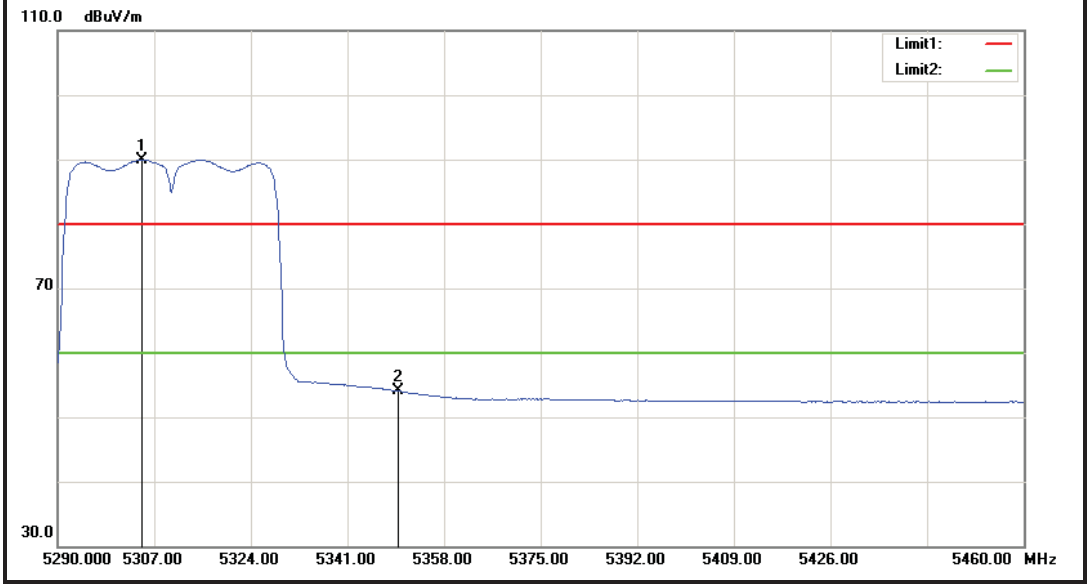


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5306.490	84.80	5.53	90.33	---	---	Peak	Vertical
2	5350.000	58.07	5.60	63.67	80.00	-16.33	Peak	Vertical
1	5304.450	74.56	5.52	80.08	---	---	Average	Vertical
2	5350.000	47.18	5.60	52.78	60.00	-7.22	Average	Vertical

Detector mode: Peak **Polarity: Horizontal**



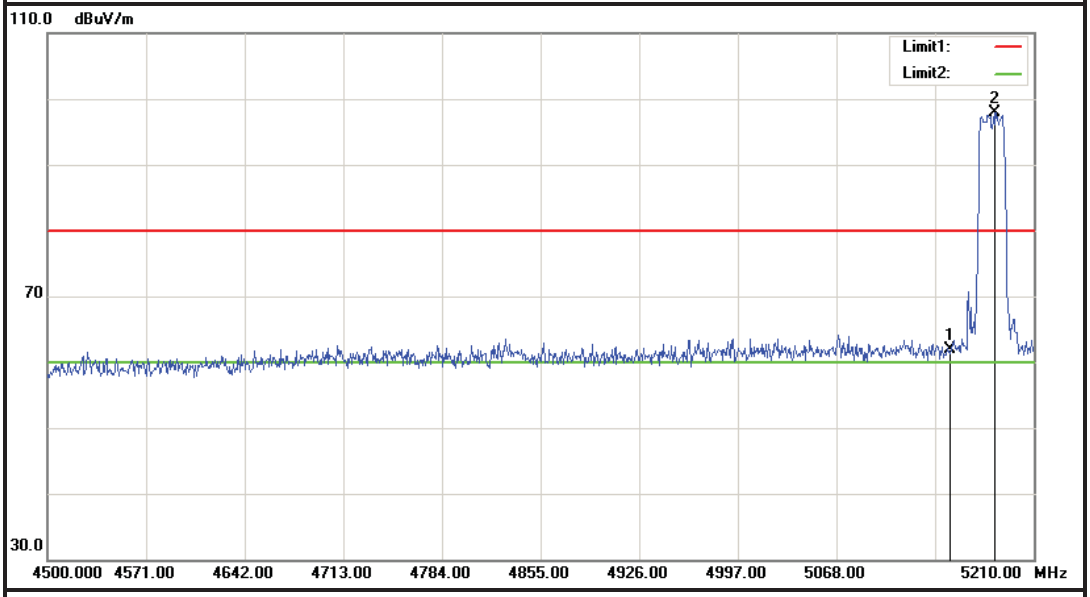
Detector mode: Average **Polarity: Horizontal**



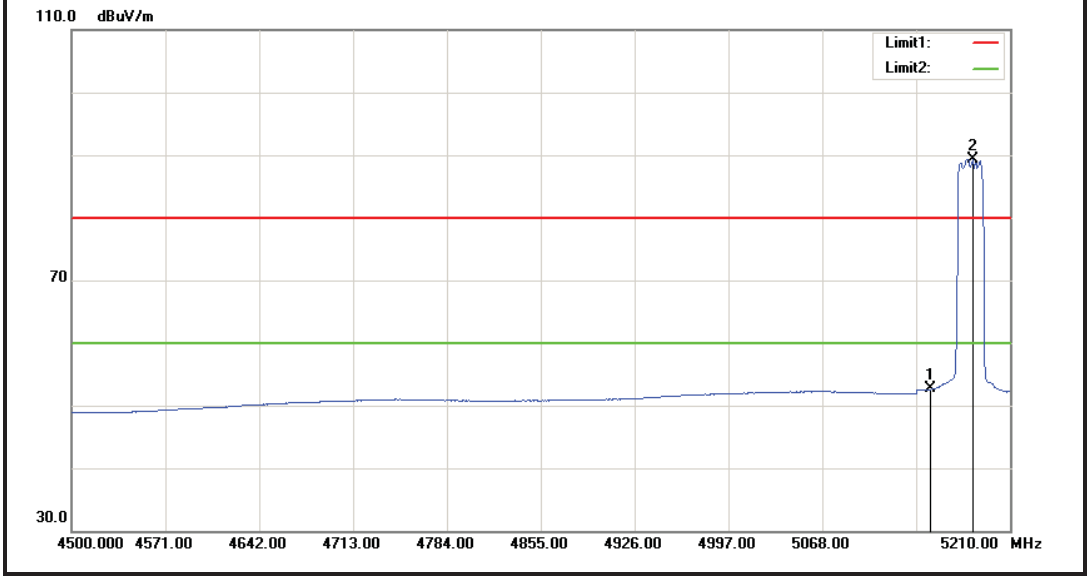
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5303.600	95.51	5.52	101.03	---	---	Peak	Horizontal
2	5350.000	59.77	5.60	65.37	80.00	-14.63	Peak	Horizontal
1	5304.790	84.42	5.52	89.94	---	---	Average	Horizontal
2	5350.000	48.44	5.60	54.04	60.00	-5.96	Average	Horizontal

IEEE 802.11ac 20 MHz mode / 5180MHz(Combine with Antenna 0+ Antenna 1)

Detector mode: Peak **Polarity: Vertical**

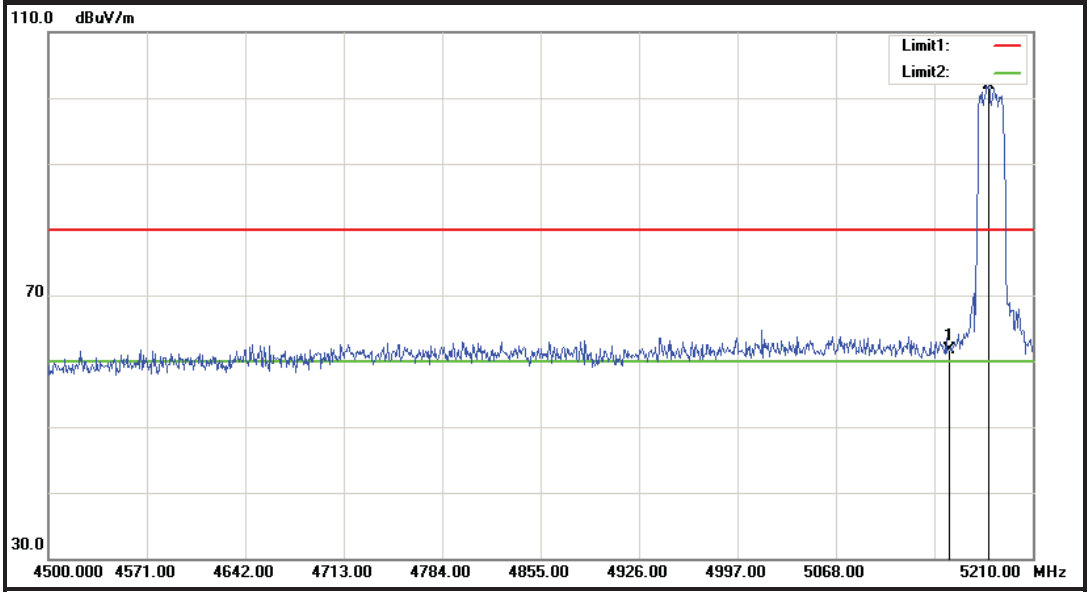


Detector mode: Average **Polarity: Vertical**

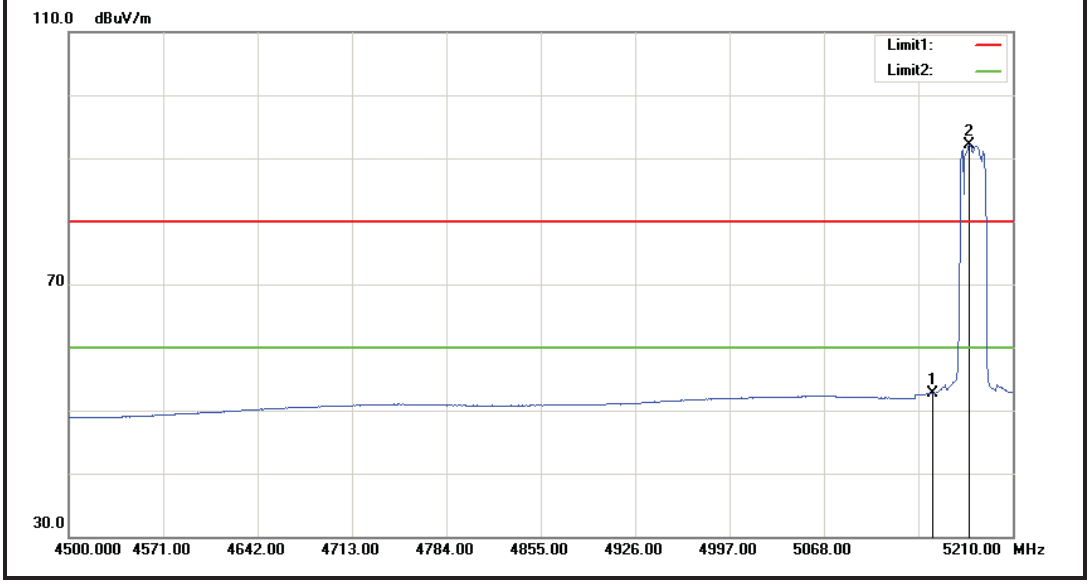


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	56.57	5.25	61.82	80.00	-18.18	Peak	Vertical
2	5181.600	92.68	5.30	97.98	---	---	Peak	Vertical
1	5150.000	47.38	5.25	52.63	60.00	-7.37	Average	Vertical
2	5182.310	84.06	5.30	89.36	---	---	Average	Vertical

Detector mode: Peak **Polarity: Horizontal**



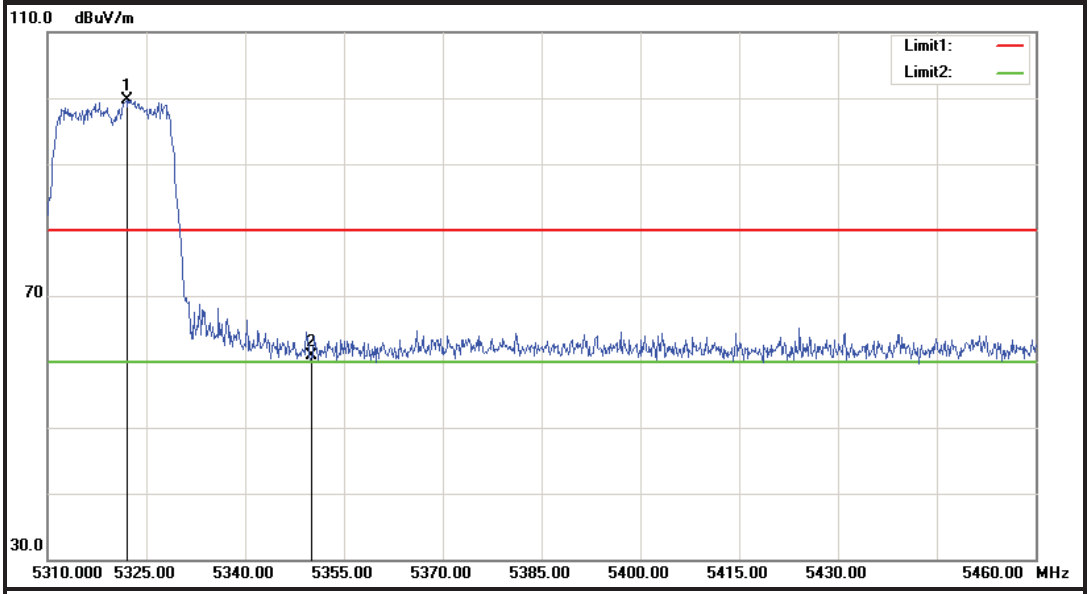
Detector mode: Average **Polarity: Horizontal**



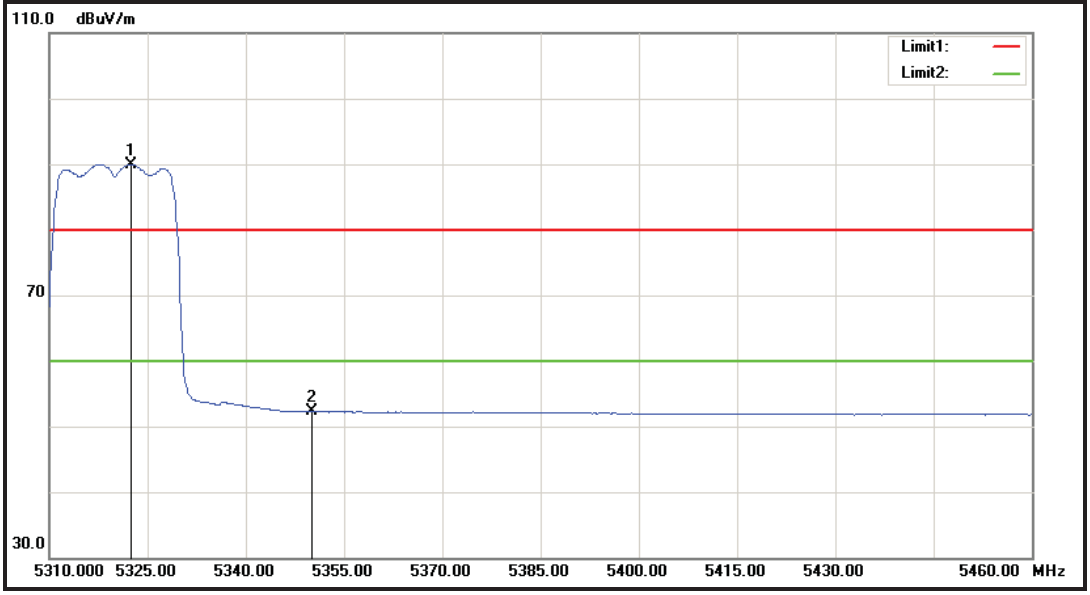
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	56.54	5.25	61.79	80.00	-18.21	Peak	Horizontal
2	5178.050	96.56	5.30	101.86	---	---	Peak	Horizontal
1	5150.000	47.51	5.25	52.76	60.00	-7.24	Average	Horizontal
2	5177.340	86.76	5.30	92.06	---	---	Average	Horizontal

IEEE 802.11ac20 MHz mode / 5320MHz(Combine with Antenna 0+ Antenna 1)

Detector mode: Peak **Polarity: Vertical**

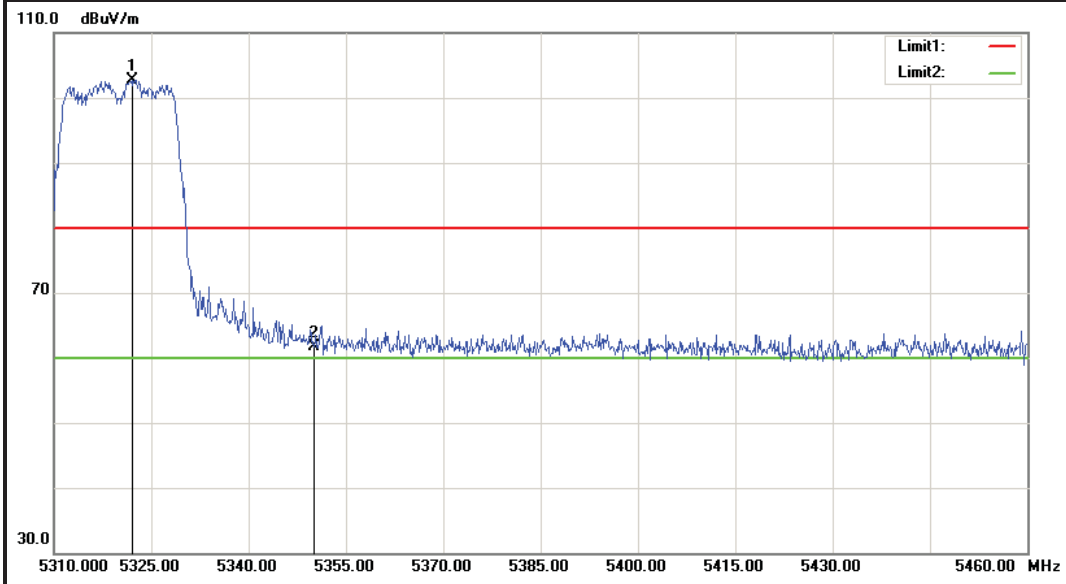


Detector mode: Average **Polarity: Vertical**

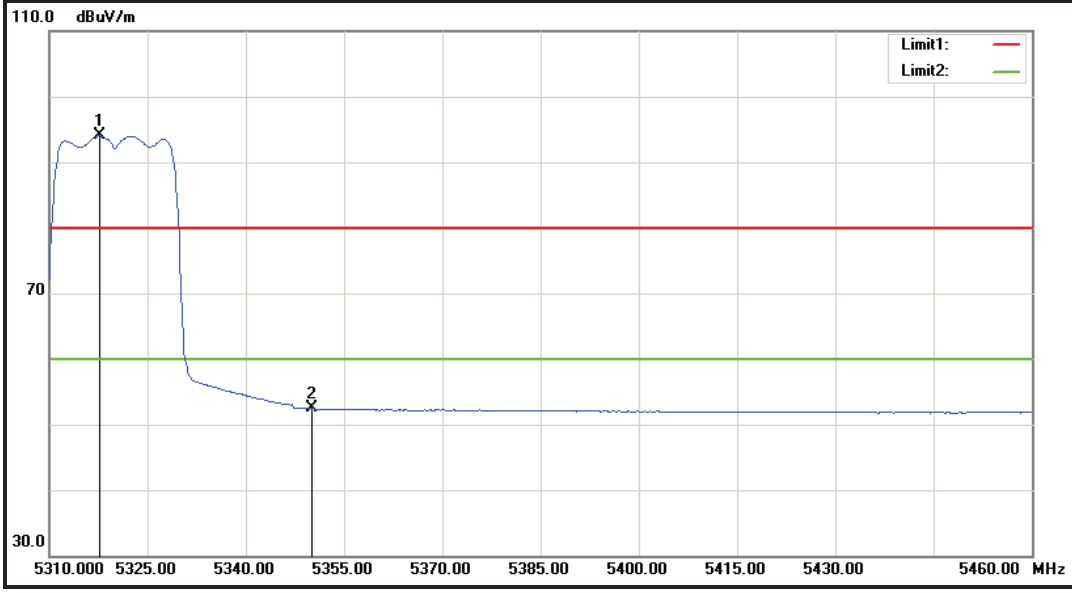


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5322.000	94.08	5.55	99.63	---	---	Peak	Vertical
2	5350.000	55.24	5.60	60.84	80.00	-19.16	Peak	Vertical
1	5322.450	84.43	5.55	89.98	---	---	Average	Vertical
2	5350.000	46.65	5.60	52.25	60.00	-7.75	Average	Vertical

Detector mode: Peak **Polarity: Horizontal**



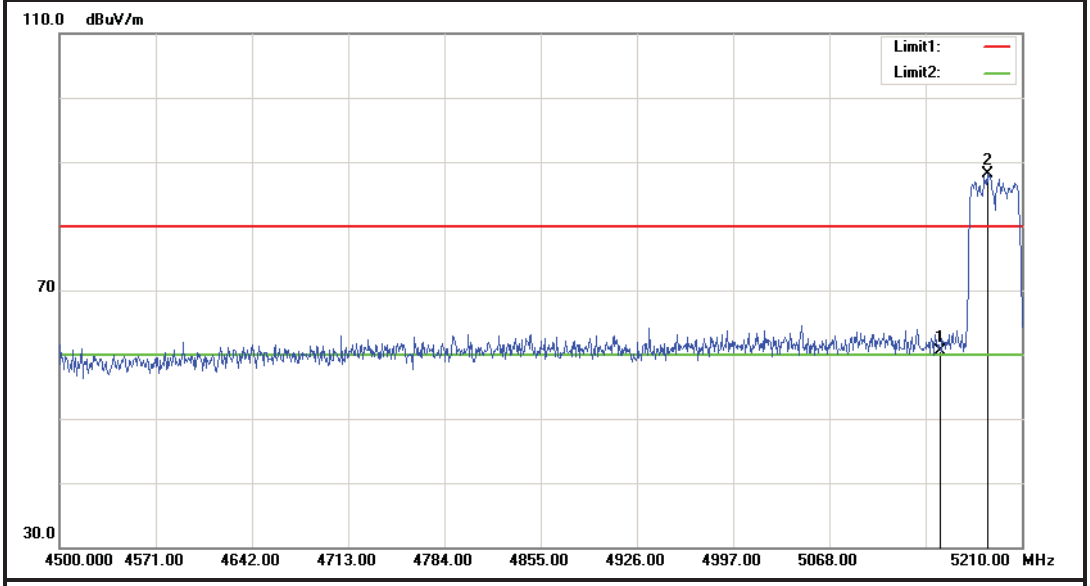
Detector mode: Average **Polarity: Horizontal**



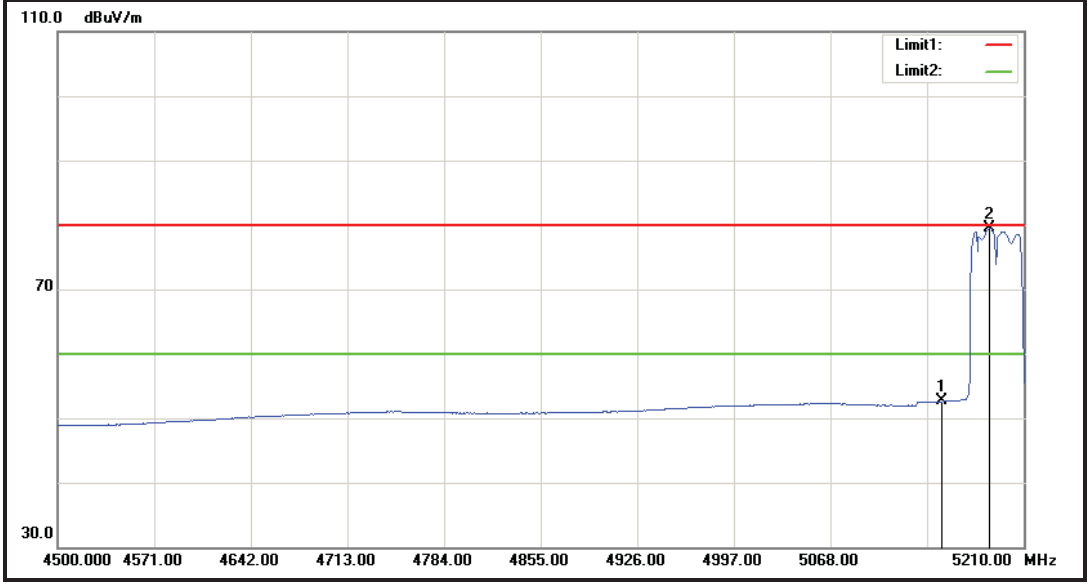
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5322.150	97.17	5.55	102.72	---	---	Peak	Horizontal
2	5350.000	56.13	5.60	61.73	80.00	-18.27	Peak	Horizontal
1	5317.650	88.49	5.55	94.04	---	---	Average	Horizontal
2	5350.000	46.81	5.60	52.41	60.00	-7.59	Average	Horizontal

IEEE 802.11ac 40 MHz mode / 5190 MHz (Combine with Antenna 0+ Antenna 1)

Detector mode: Peak **Polarity: Vertical**

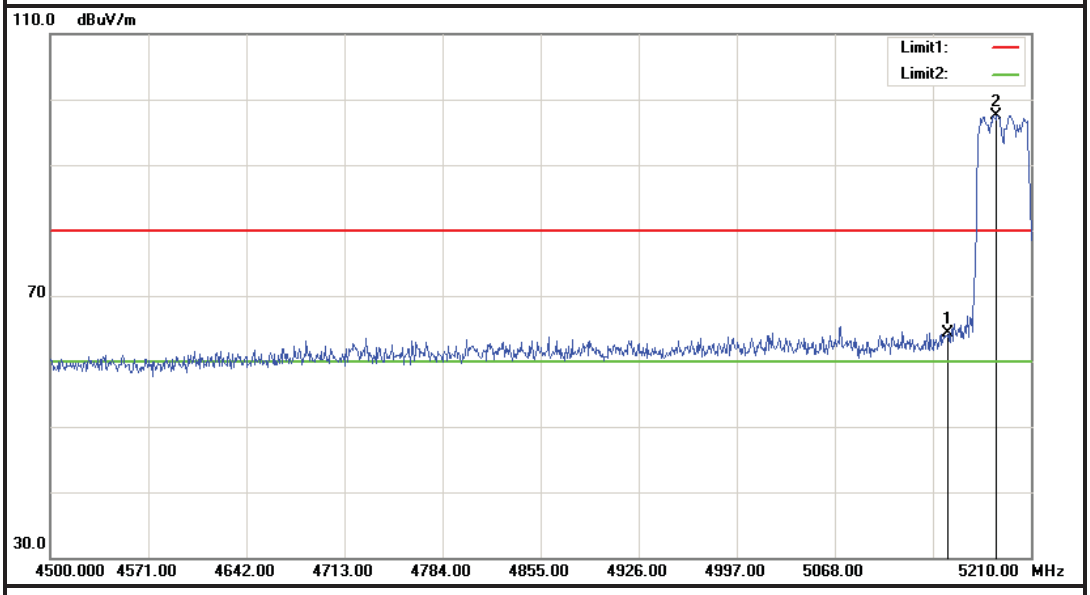


Detector mode: Average **Polarity: Vertical**

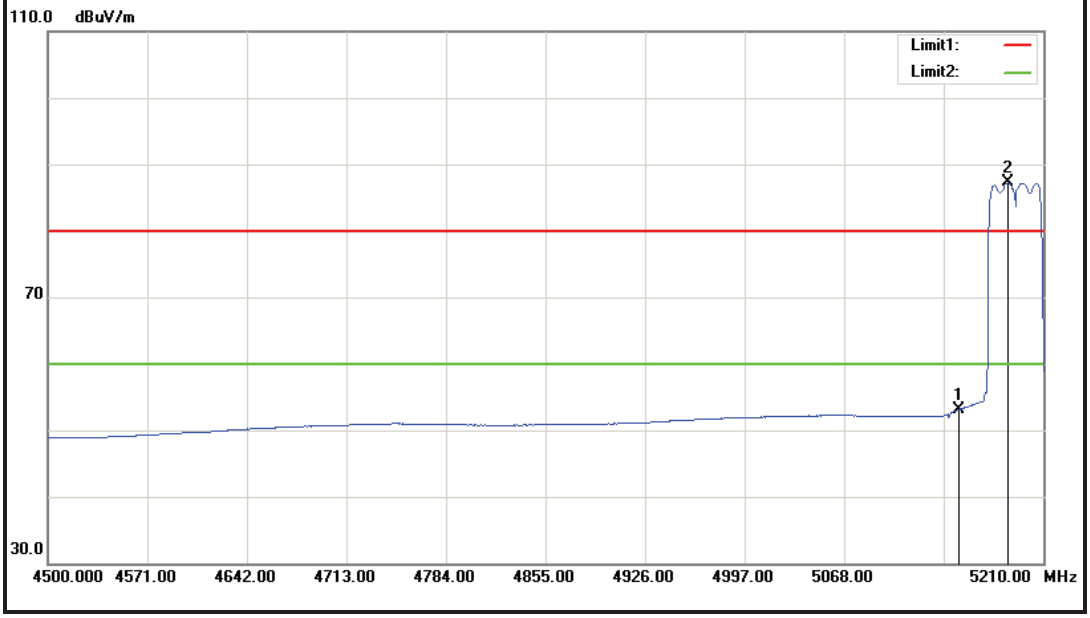


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	55.21	5.25	60.46	80.00	-19.54	Peak	Vertical
2	5184.440	82.74	5.31	88.05	---	---	Peak	Vertical
1	5150.000	47.36	5.25	52.61	60.00	-7.39	Average	Vertical
2	5184.440	74.15	5.31	79.46	---	---	Average	Vertical

Detector mode: Peak **Polarity: Horizontal**



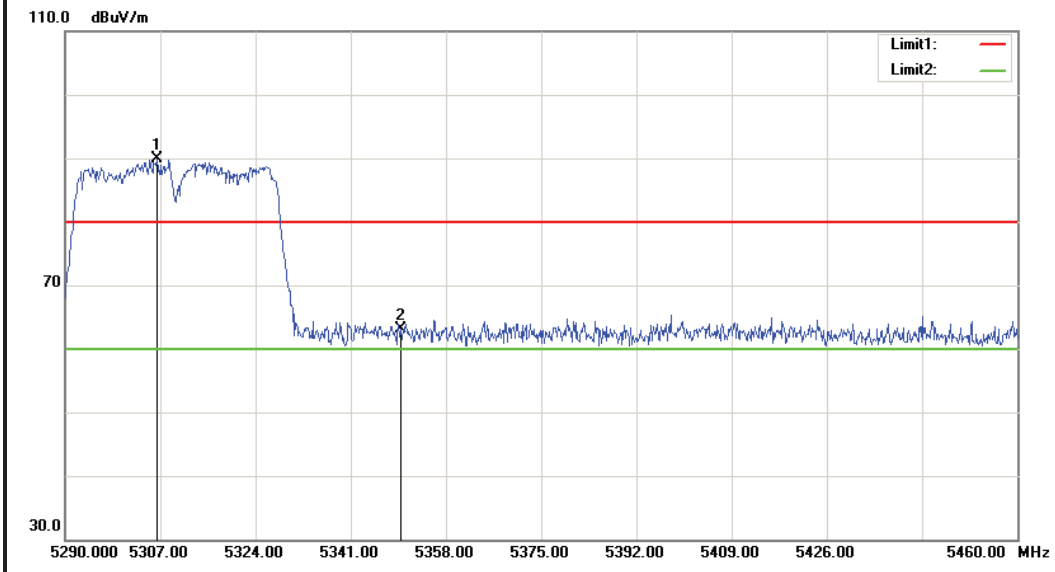
Detector mode: Average **Polarity: Horizontal**



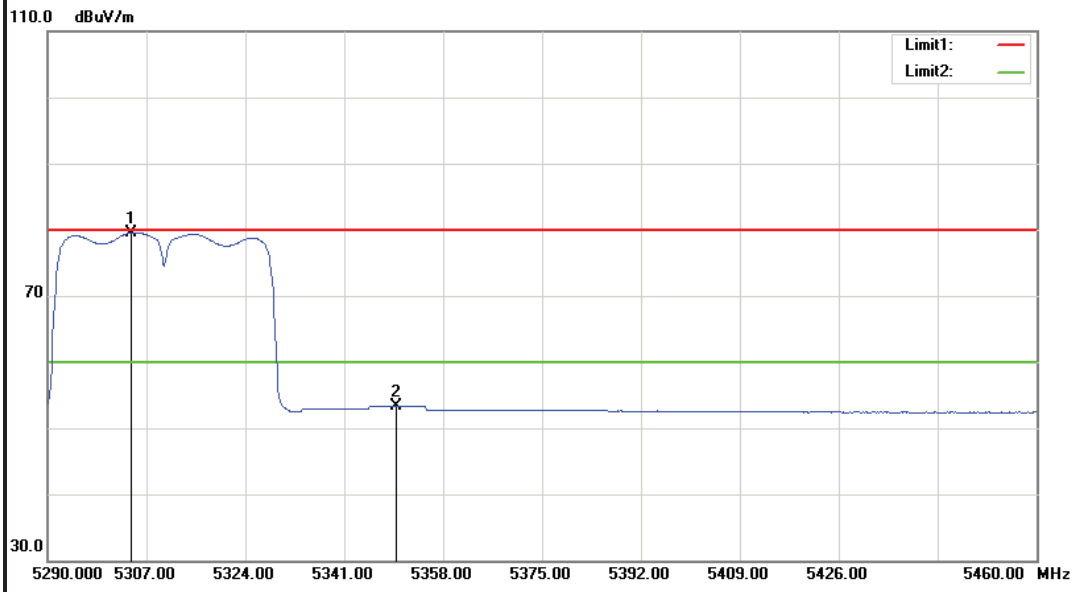
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	59.11	5.25	64.36	80.00	-15.64	Peak	Horizontal
2	5185.150	92.20	5.31	97.51	---	---	Peak	Horizontal
1	5150.000	47.92	5.25	53.17	60.00	-6.83	Average	Horizontal
2	5184.440	81.94	5.31	87.25	---	---	Average	Horizontal

IEEE 802.11ac 40 MHz mode / 5310 MHz (Combine with Antenna 0+ Antenna 1)

Detector mode: Peak **Polarity: Vertical**

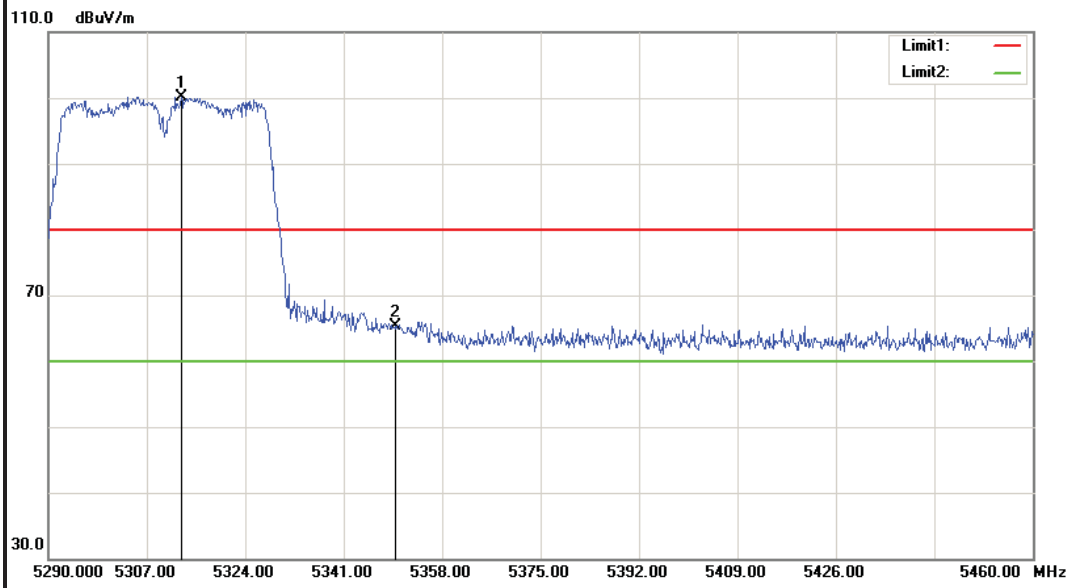


Detector mode: Average **Polarity: Vertical**

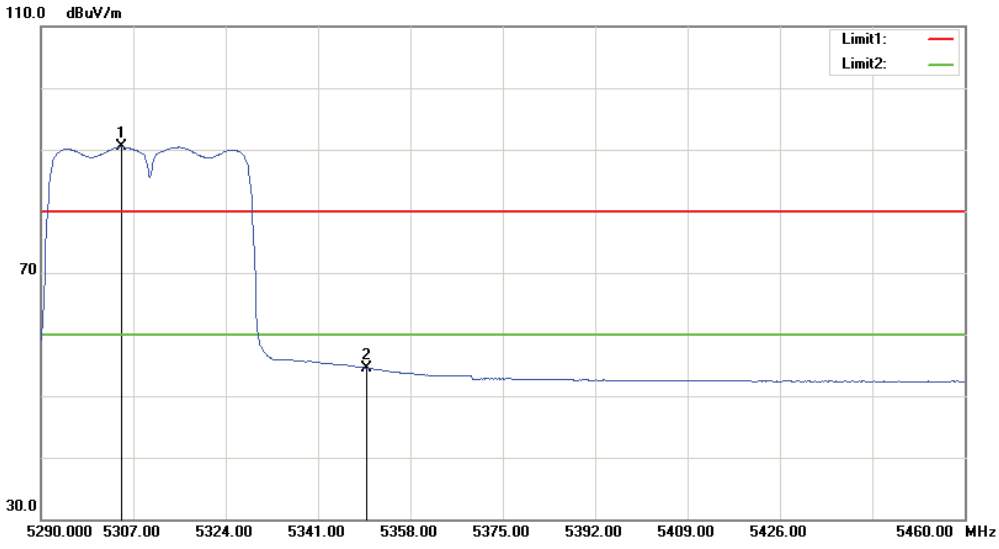


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5306.490	84.30	5.53	89.83	---	---	Peak	Vertical
2	5350.000	57.57	5.60	63.17	80.00	-16.83	Peak	Vertical
1	5304.450	74.06	5.52	79.58	---	---	Average	Vertical
2	5350.000	47.68	5.60	53.28	60.00	-6.72	Average	Vertical

Detector mode: Peak **Polarity: Horizontal**



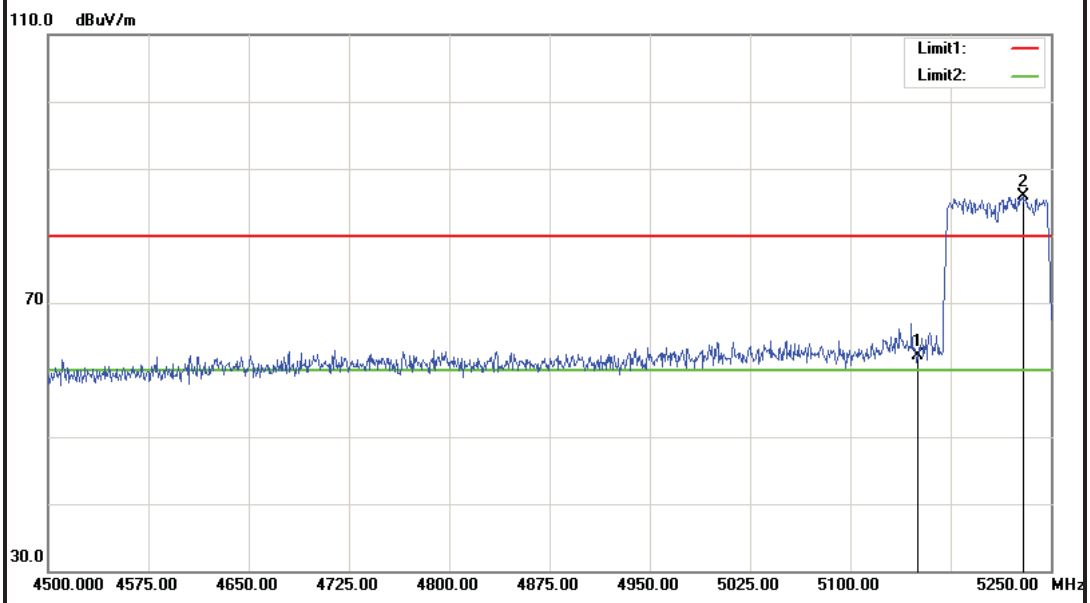
Detector mode: Average **Polarity: Horizontal**



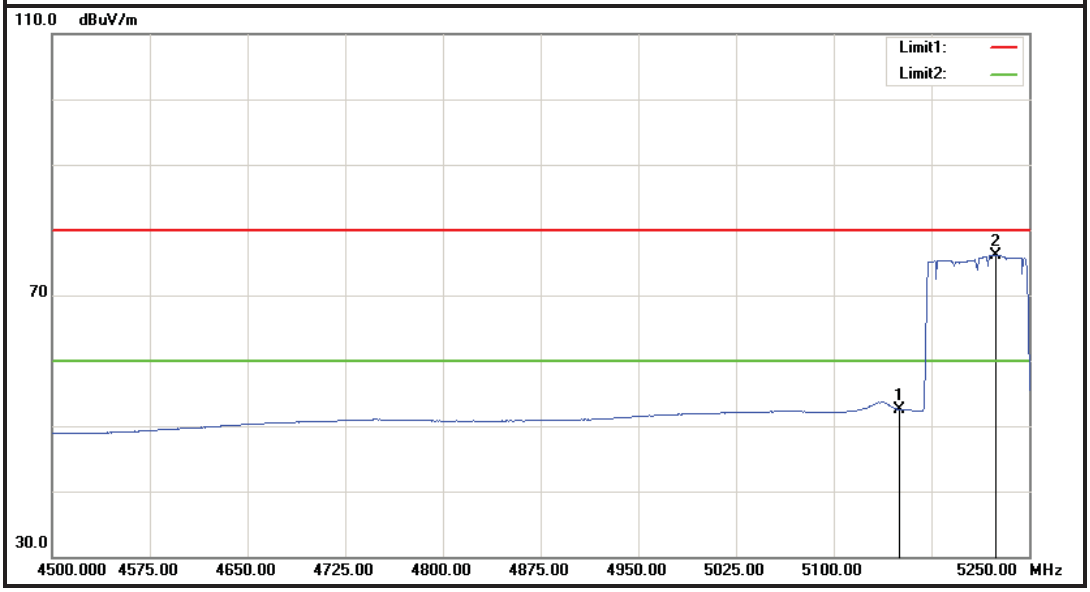
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5312.950	94.61	5.54	100.15	---	---	Peak	Horizontal
2	5350.000	59.77	5.60	65.37	80.00	-14.63	Peak	Horizontal
1	5304.790	84.92	5.52	90.44	---	---	Average	Horizontal
2	5350.000	48.94	5.60	54.54	60.00	-5.46	Average	Horizontal

IEEE 802.11ac 80 mode / 5210 MHz (Combine with Antenna 0+ Antenna 1)

Detector mode: Peak **Polarity: Vertical**

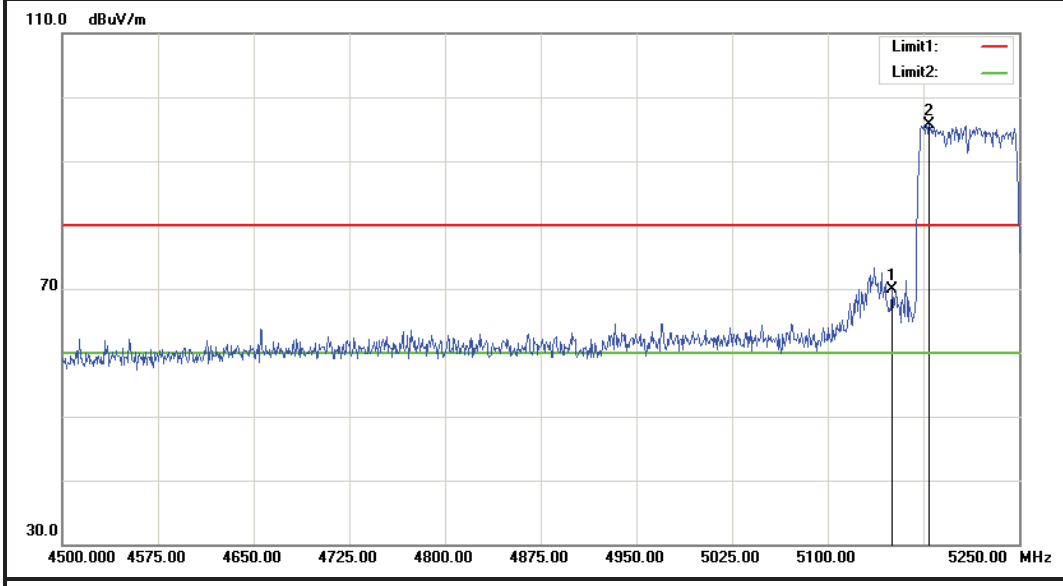


Detector mode: Average **Polarity: Vertical**

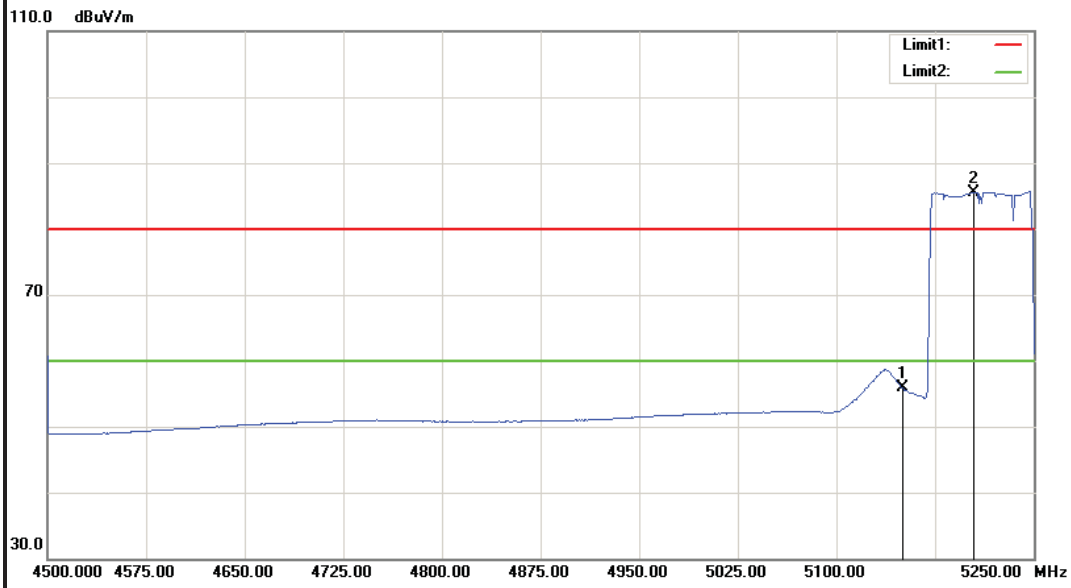


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	56.92	5.25	62.17	80.00	-17.83	Peak	Vertical
2	5229.000	80.46	5.39	85.85	---	---	Peak	Vertical
1	5150.000	47.27	5.25	52.52	60.00	-7.48	Average	Vertical
2	5224.500	70.78	5.38	76.16	---	---	Average	Vertical

Detector mode: Peak **Polarity: Horizontal**



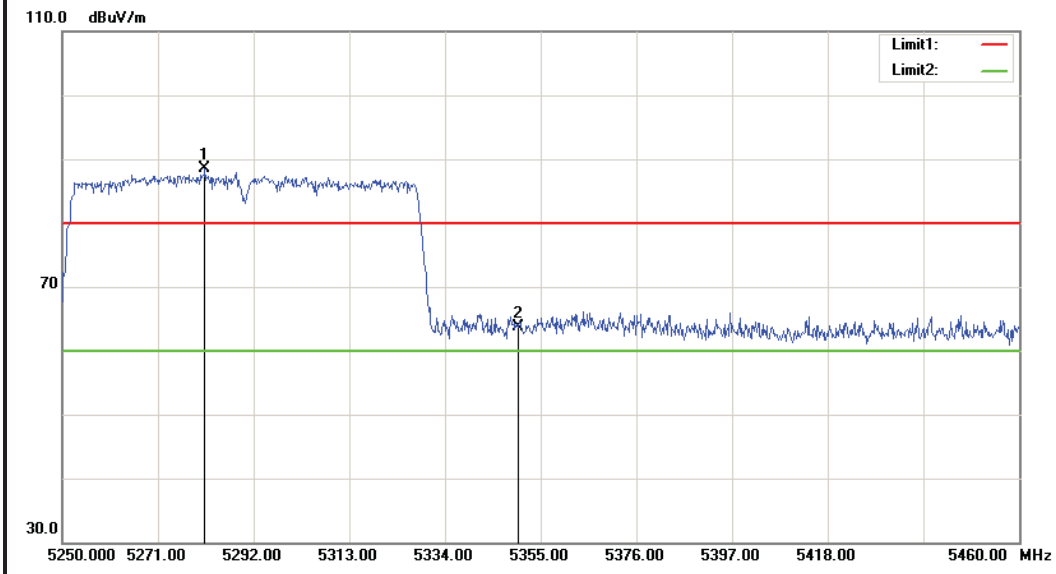
Detector mode: Average **Polarity: Horizontal**



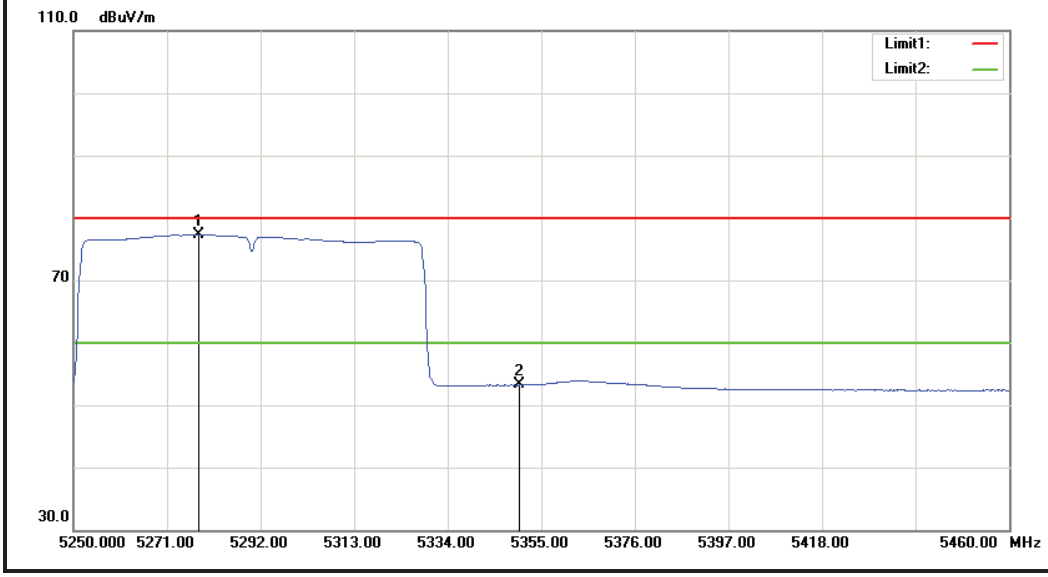
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5150.000	64.68	5.25	69.93	80.00	-10.07	Peak	Horizontal
2	5179.500	90.38	5.30	95.68	---	---	Peak	Horizontal
1	5150.000	50.60	5.25	55.85	60.00	-4.15	Average	Horizontal
2	5204.250	80.20	5.34	85.54	---	---	Average	Horizontal

IEEE 802.11ac 80 mode / 5290 MHz (Combine with Antenna 0+ Antenna 1)

Detector mode: Peak **Polarity: Vertical**

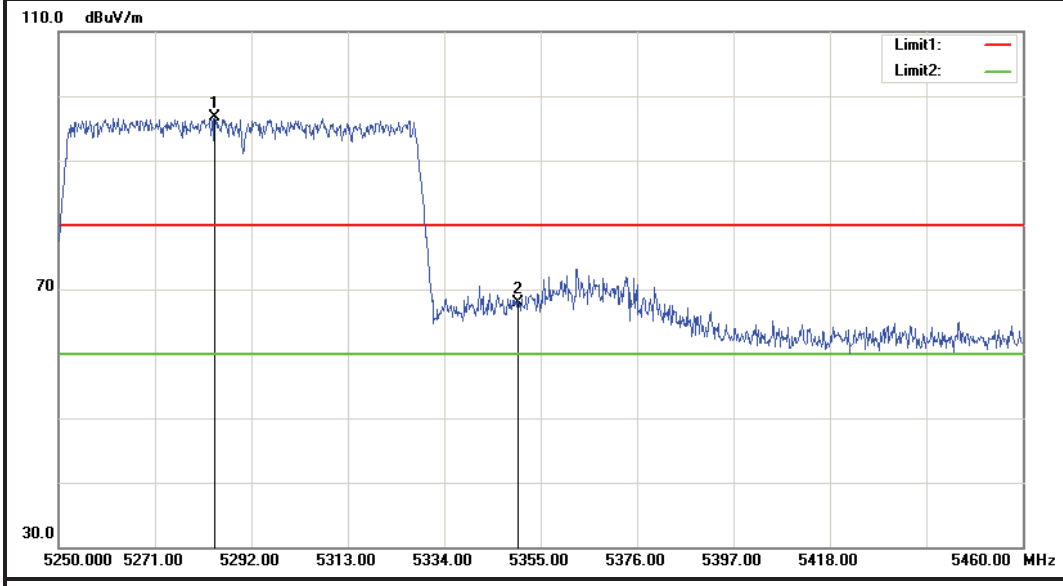


Detector mode: Average **Polarity: Vertical**

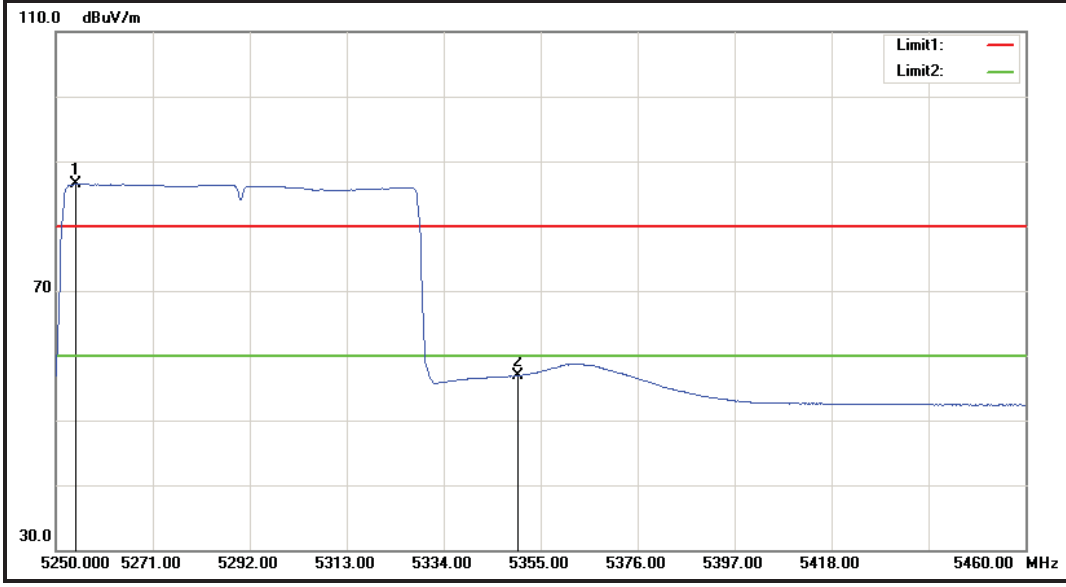


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5281.290	83.02	5.48	88.50	---	---	Peak	Vertical
2	5350.000	58.13	5.60	63.73	80.00	-16.27	Peak	Vertical
1	5278.140	71.87	5.48	77.35	---	---	Average	Vertical
2	5350.000	47.60	5.60	53.20	60.00	-6.80	Average	Vertical

Detector mode: Peak **Polarity: Horizontal**



Detector mode: Average **Polarity: Horizontal**



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	5284.020	91.23	5.49	96.72	---	---	Peak	Horizontal
2	5350.000	62.32	5.60	67.92	80.00	-12.08	Peak	Horizontal
1	5254.410	81.03	5.43	86.46	---	---	Average	Horizontal
2	5350.000	51.29	5.60	56.89	60.00	-3.11	Average	Horizontal

6.6 PEAK POWER SPECTAL DENSITY

6.6.1 LIMIT

According to §15.407(a) & FCC R&O FCC 14-30

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

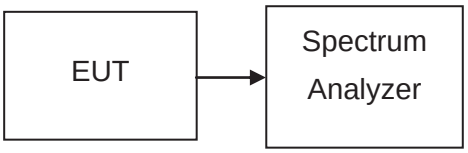
Note to paragraph (a)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.

6.6.2MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2017	02/20/2018

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

6.6.3 TEST CONFIGURATION



6.6.4 TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
   Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. For devices operating in the bands 5.15-5.25 GHz,Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span > 26dB bandwidth, Sweep=1ms
3. For devices operating in the bands 5.725-5.85 GHz,Set the spectrum analyzer as RBW = 1MHz, VBW = 3MHz, Span > 26dB bandwidth, Sweep=1ms
4. Record the max. reading.
5. Repeat the above procedure until the measurements for all frequencies are completed

6.6.5 TEST RESULTS

Test Data

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

Channel	Frequency (MHz)	PPSD (dBm)		Limit (dBm)	Margain		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5180	-0.789	-3.870	11	-11.789	-14.870	PASS
Mid	5200	-0.595	-3.998		-11.595	-14.998	PASS
High	5240	-0.262	-3.111		-11.262	-14.111	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)		Limit (dBm)	Margain		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5260	0.215	-2.930	11	-10.785	-13.930	PASS
Mid	5300	0.851	-2.769		-10.149	-13.769	PASS
High	5320	0.684	-2.255		-10.316	-13.255	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)		Limit (dBm)	Margain		Result
		Antenna 0	Antenna 1		Antenna 0	Antenna 1	
Low	5500	-0.609	-3.739	11	-11.609	-14.739	PASS
Mid	5580	1.823	-0.943		-9.177	-11.943	PASS
High	5700	-2.865	-6.424		-13.865	-17.424	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)		factor	Limit (dBm)	Margain		Result
		Antenna 0	Antenna 1			Antenna 0	Antenna 1	
Low	5745	-1.658	-4.514	-3.01	30	-34.668	-37.524	PASS
Mid	5785	-2.409	-5.624	-3.01		-35.419	-38.634	PASS
High	5825	-0.752	-4.379	-3.01		-33.762	-37.389	PASS

Remark: factor =10*log10 (500/RBW)

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				
Low	5180	-0.974	-3.899	0.816	8.39	-7.574	PASS
Mid	5200	-0.778	-4.068	0.892		-7.498	PASS
High	5240	-0.077	-3.173	1.656		-6.734	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				
Low	5260	0.244	-3.068	1.907	8.39	-6.483	PASS
Mid	5300	0.570	-2.349	2.362		-6.028	PASS
High	5320	0.468	-2.909	2.110		-6.280	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				
Low	5500	-0.924	-4.027	0.806	8.39	-7.584	PASS
Mid	5580	1.946	-1.574	3.544		-4.846	PASS
High	5700	-2.790	-6.504	-1.251		-9.641	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)		factor	Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1					
Low	5745	-1.326	-4.161	-3.01	-2.516	27.39	-29.906	PASS
Mid	5785	-2.630	-5.657	-3.01	-3.885		-31.275	PASS
High	5825	-1.442	-4.510	-3.01	-2.710		-30.100	PASS

Remark: factor =10*log10 (500/RBW)

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

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1				
Low	5190	-4.293	-7.726	-2.668	8.39	-11.058	PASS
High	5230	-4.067	-6.773	-2.202		-10.592	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1				
Low	5270	-3.119	-6.492	-1.476	8.39	-9.866	PASS
High	5310	-3.053	-5.826	-1.212		-9.602	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1				
Low	5510	-7.738	-9.998	-5.712	8.39	-14.102	PASS
Mid	5550	-1.478	-4.747	0.198		-8.192	PASS
High	5670	-9.167	-11.823	-7.285		-15.675	PASS

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

Channel	Frequency (MHz)	PPSD (dBm)		factor	Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1					
Low	5755	-4.763	-8.542	-3.01	-6.254	27.39	-33.644	PASS
High	5795	-2.590	-5.680	-3.01	-3.865		-31.255	PASS

Remark: factor =10*log10 (500/RBW)

Test mode: IEEE 802.11ac 20 MHz mode / 5180 ~ 5240MHz

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1				
Low	5180	-0.063	-3.396	1.593	8.39	-6.797	PASS
Mid	5200	-0.281	-3.286	1.482		-6.908	PASS
High	5240	-0.036	-2.926	1.765		-6.625	PASS

Test mode: IEEE 802.11ac 20 MHz mode / 5260~ 5320MHz

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1				
Low	5260	0.749	-2.388	2.468	8.39	-5.922	PASS
Mid	5300	1.181	-2.213	2.818		-5.572	PASS
High	5320	0.878	-2.326	2.575		-5.815	PASS

Test mode: IEEE 802.11ac 20 MHz mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1				
Low	5500	-0.158	-3.260	1.573	8.39	-6.817	PASS
Mid	5580	2.155	-1.126	3.828		-4.562	PASS
High	5700	-1.920	-5.232	-0.257		-8.647	PASS

Test mode: IEEE 802.11ac 20 MHz mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	PPSD (dBm)		factor	Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1					
Low	5745	-1.105	-4.127	-3.01	-2.358	27.39	-29.748	PASS
Mid	5785	-1.798	-5.168	-3.01	-3.164		-30.554	PASS
High	5825	-0.881	-3.905	-3.01	-2.135		-29.525	PASS

Remark: factor =10*log10 (500/RBW)

Test mode: IEEE 802.11ac 40 MHz mode / 5190 ~ 5230MHz

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1				
Low	5190	-3.959	-6.860	-2.161	8.39	-10.551	PASS
High	5230	-3.244	-6.392	-1.529		-9.919	PASS

Test mode: IEEE 802.11ac 40 MHz mode / 5270 ~ 5310MHz

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1				
Low	5270	-2.720	-6.213	-1.114	8.39	-9.504	PASS
High	5310	-2.985	-6.121	-1.266		-9.656	PASS

Test mode: IEEE 802.11ac 40 MHz mode / 5510 ~ 5670MHz

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1				
Low	5510	-7.103	-9.570	-5.153	8.39	-13.543	PASS
Mid	5550	-0.971	-3.791	0.854		-7.536	PASS
High	5670	-8.743	-11.396	-6.860		-15.250	PASS

Test mode: IEEE 802.11ac 40 MHz mode / 5755 ~ 5795MHz

Channel	Frequency (MHz)	PPSD (dBm)		factor	Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1					
Low	5755	-8.003	-8.311	-3.01	-8.154	27.39	-35.544	PASS
High	5795	-5.664	-9.019	-3.01	-7.025		-34.415	PASS

Remark: factor =10*log10 (500/RBW)

Test mode: IEEE 802.11ac 80 mode / 5210MHz

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1				
	5210	-14.173	-16.896	-12.314	8.39	-20.704	PASS

Test mode: IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1				
	5290	-13.910	-16.653	-12.058	8.39	-20.448	PASS

Test mode: IEEE 802.11ac 80 mode / 5530MHz

Channel	Frequency (MHz)	PPSD (dBm)		Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1				
	5530	-15.043	-15.377	-12.196	8.39	-20.586	PASS

Test mode: IEEE 802.11ac 80 mode / 5775MHz

Channel	Frequency (MHz)	PPSD (dBm)		factor	Total (dBm)	Limit (dBm)	Margain	Result
		Antenna 0	Antenna 1					
	5775	-9.349	-10.542	-3.01	-9.904	27.39	-37.294	PASS

Remark: factor =10*log10 (500/RBW)

Test Plot

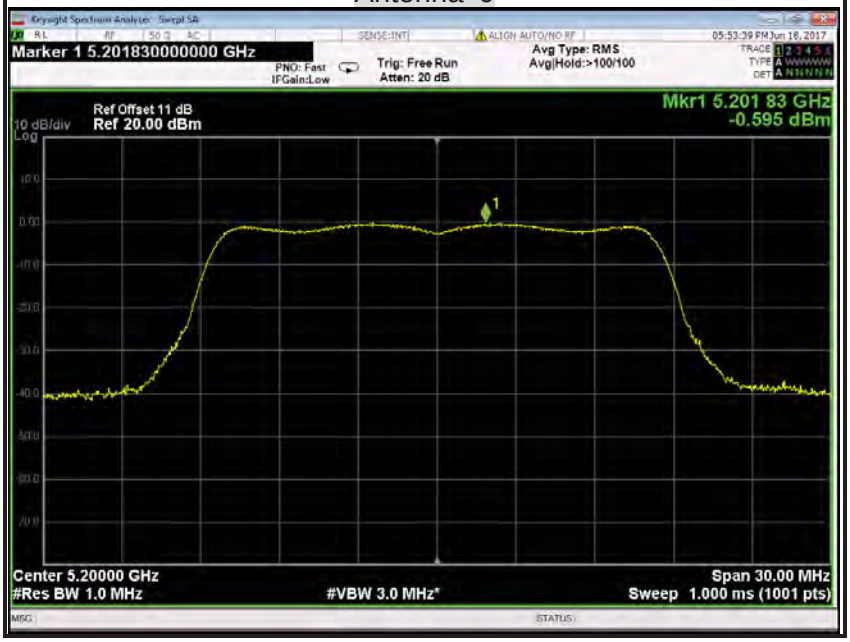
IEEE 802.11a mode / 5180 ~ 5240MHz

PPSD (CH Low)

Antenna 0

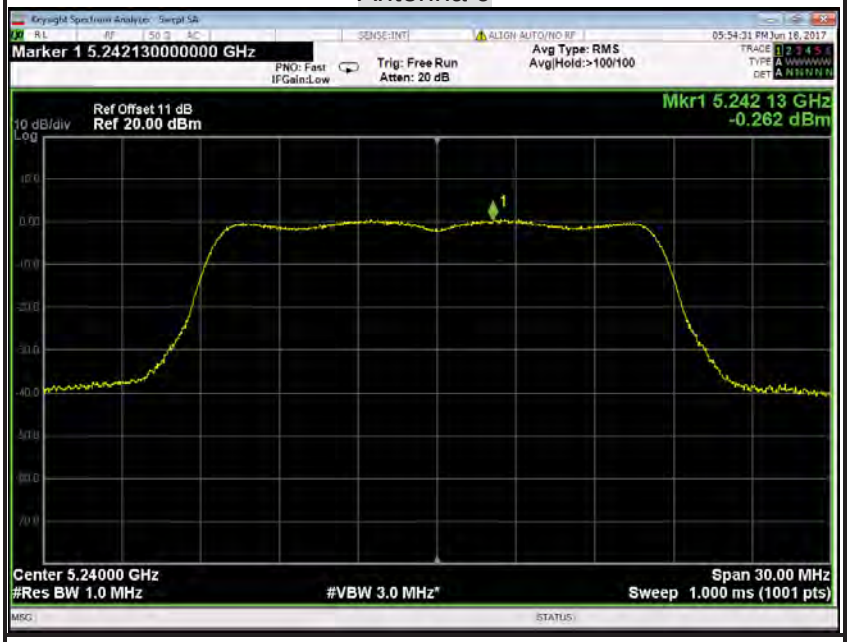
PPSD (CH Mid)

Antenna 0



PPSD (CH High)

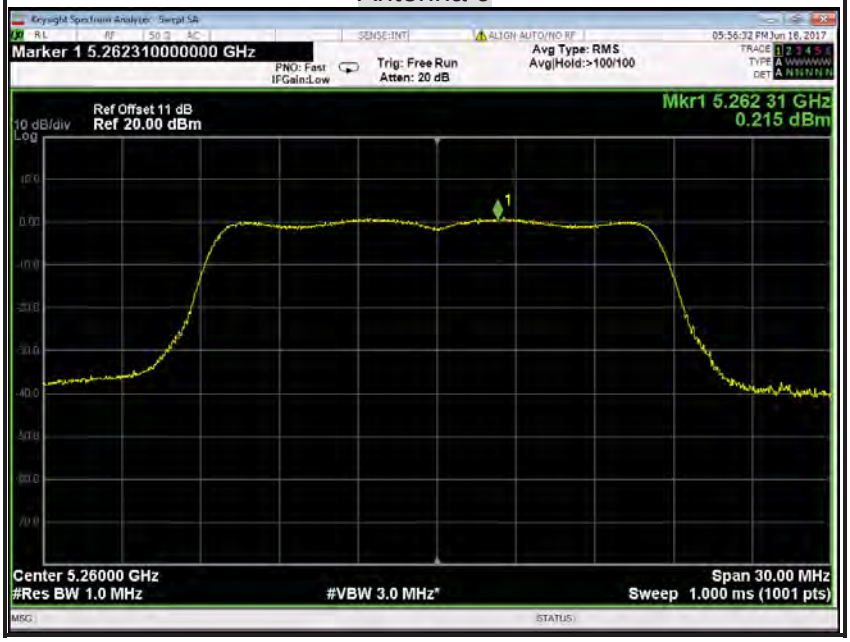
Antenna 0



IEEE 802.11a mode / 5260~ 5320MHz

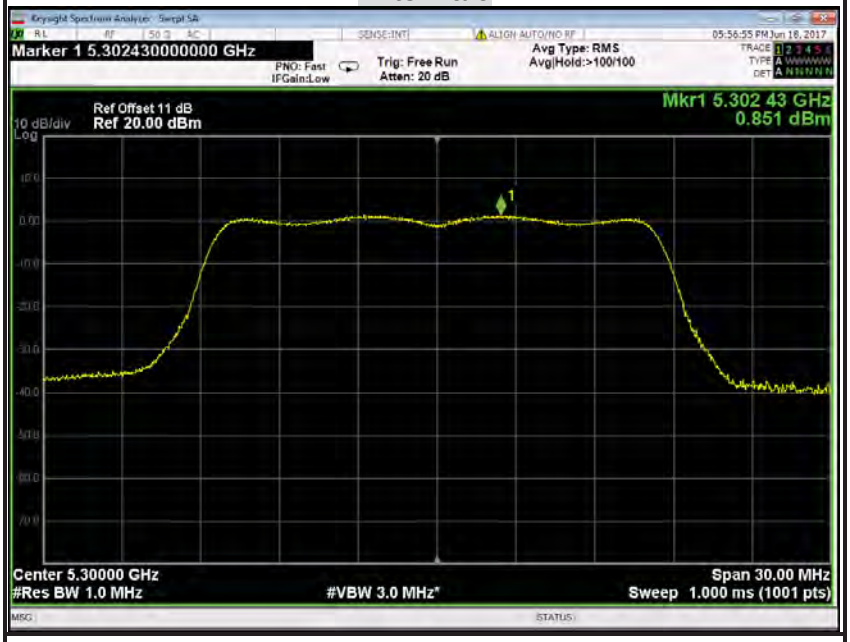
PPSD (CH Low)

Antenna 0



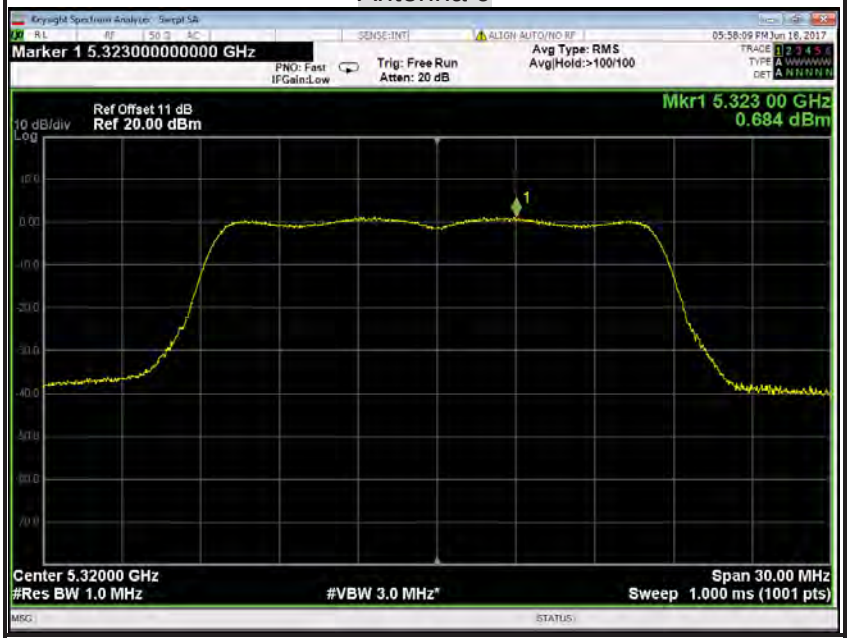
PPSD (CH Mid)

Antenna 0



PPSD (CH High)

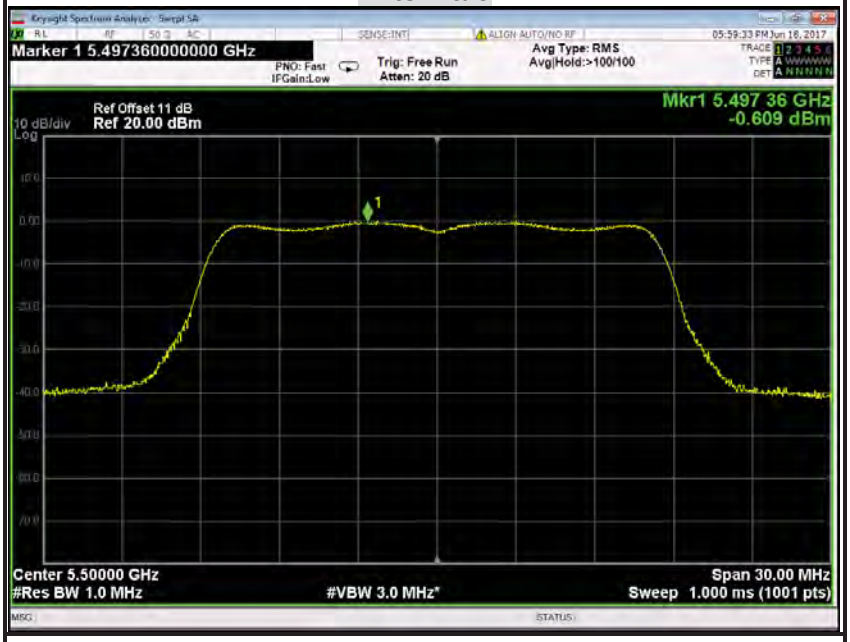
Antenna 0



IEEE 802.11a mode / 5500 ~ 5700MHz

PPSD (CH Low)

Antenna 0



PPSD (CH Mid)

Antenna 0

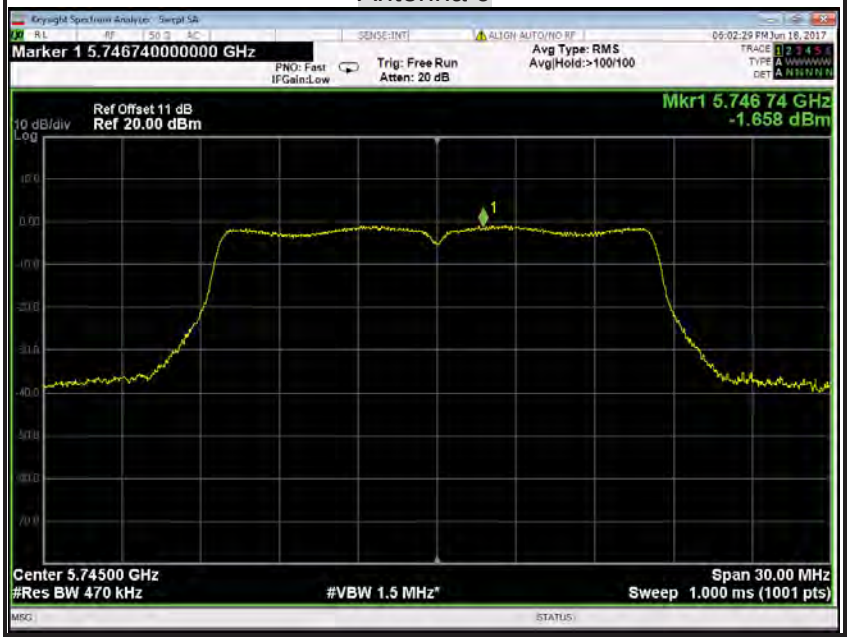
PPSD (CH High)

Antenna 0

IEEE 802.11a mode / 5745 ~ 5825MHz

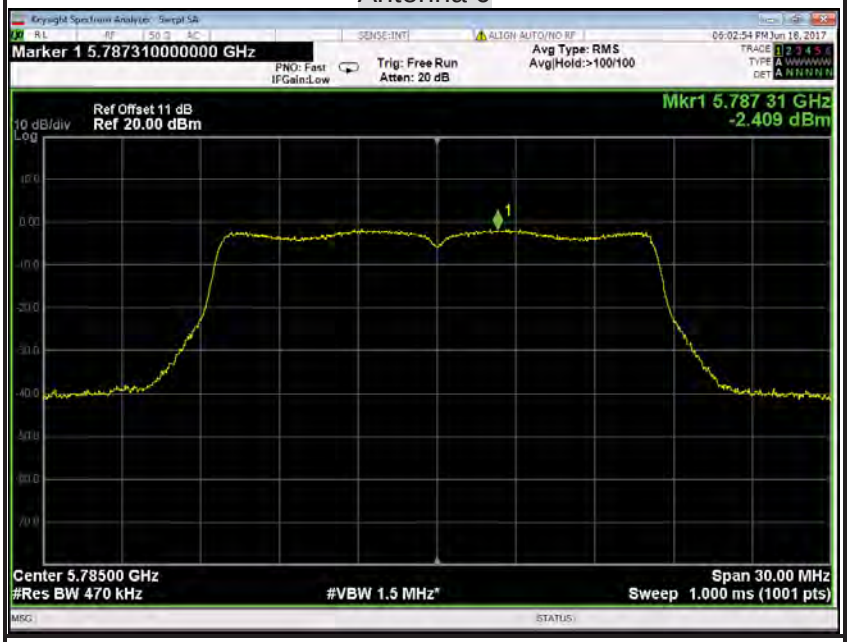
PPSD (CH Low)

Antenna 0



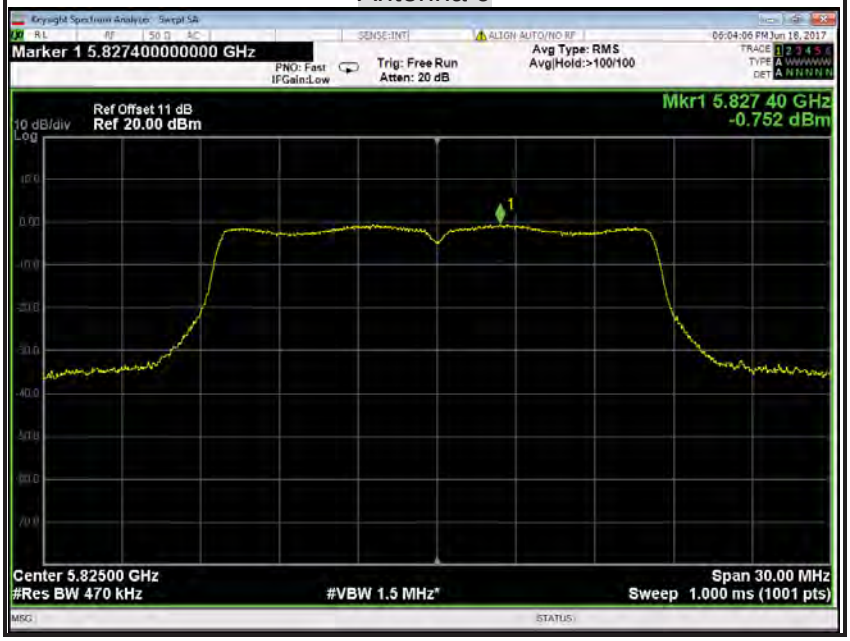
PPSD (CH Mid)

Antenna 0



PPSD (CH High)

Antenna 0



IEEE 802.11a mode / 5180 ~ 5240MHz

PPSD (CH Low)

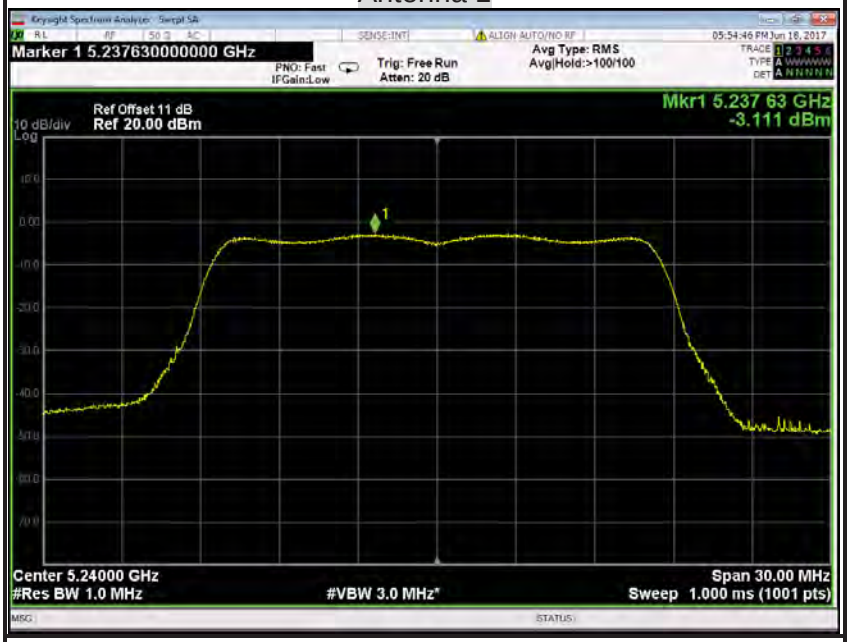
Antenna 1

PPSD (CH Mid)

Antenna 1

PPSD (CH High)

Antenna 1



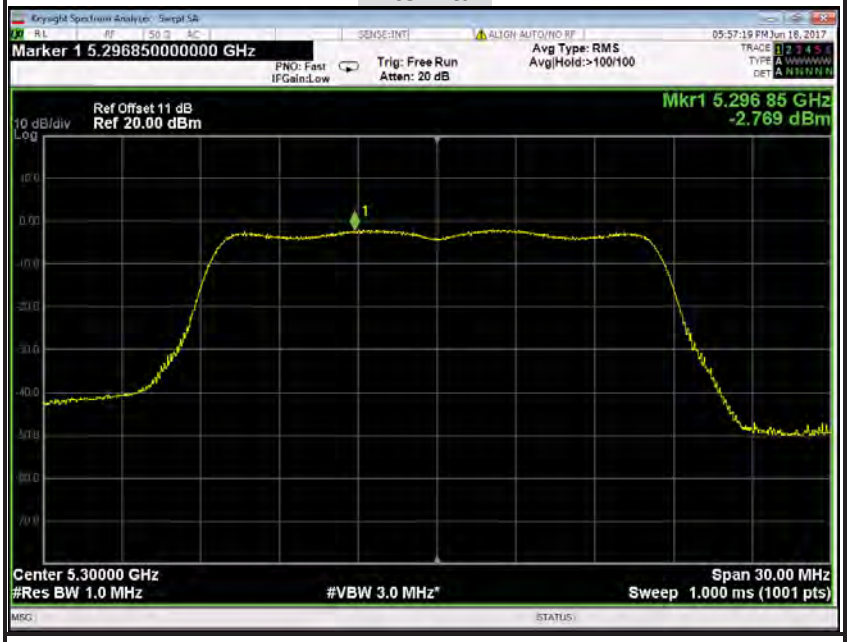
IEEE 802.11a mode / 5260~ 5320MHz

PPSD (CH Low)

Antenna 1

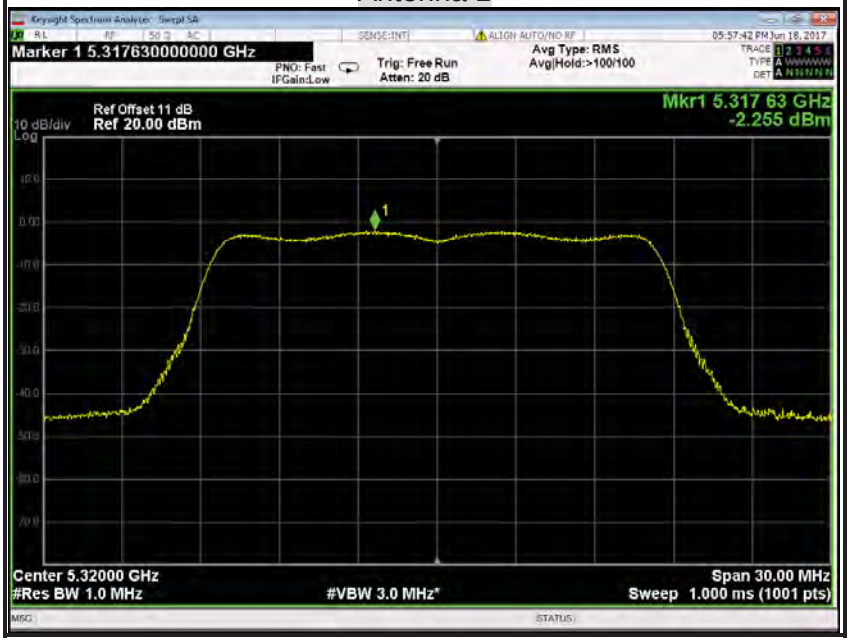
PPSD (CH Mid)

Antenna 1



PPSD (CH High)

Antenna 1



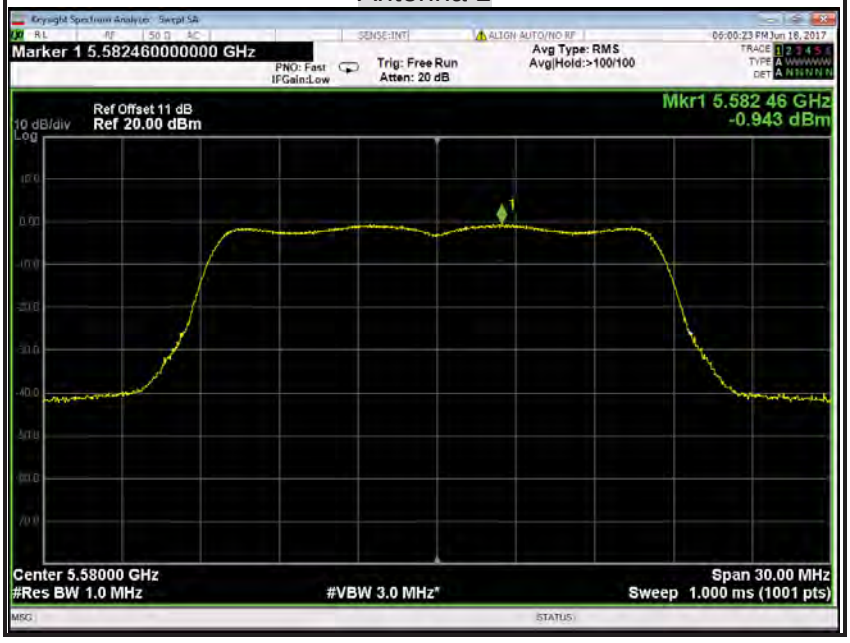
IEEE 802.11a mode / 5500~ 5700MHz

PPSD (CH Low)

Antenna 1

PPSD (CH Mid)

Antenna 1



PPSD (CH High)

Antenna 1

IEEE 802.11a mode / 5745 ~ 5825MHz

PPSD (CH Low)

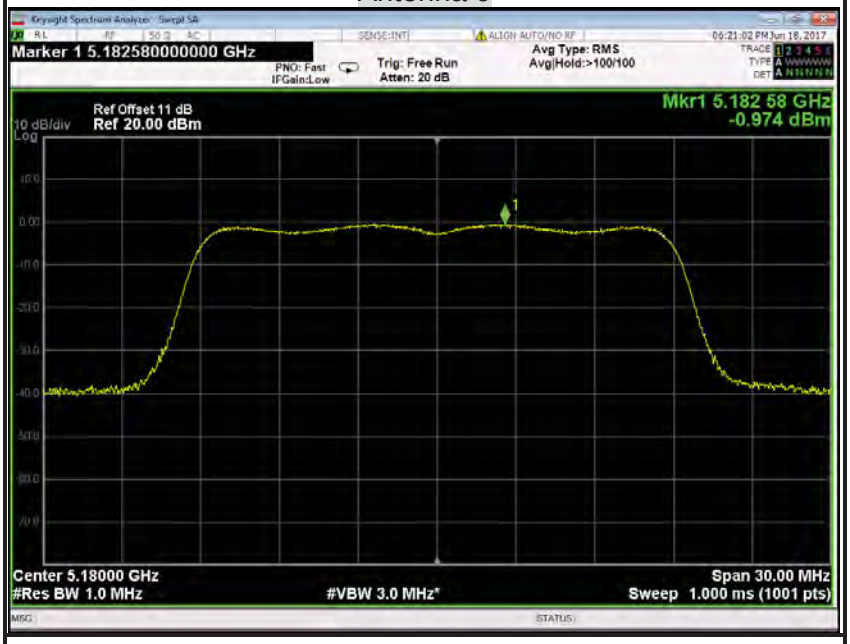
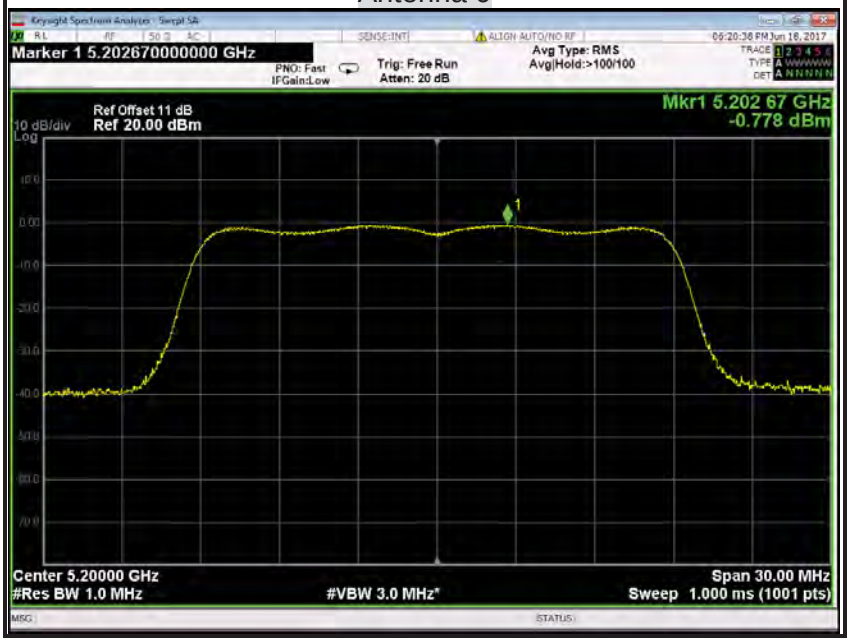
Antenna 1

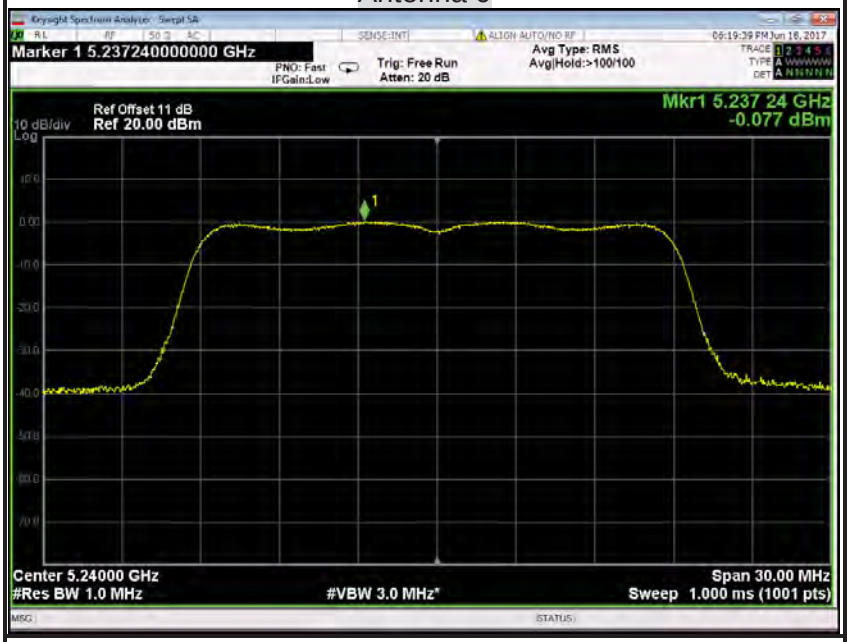
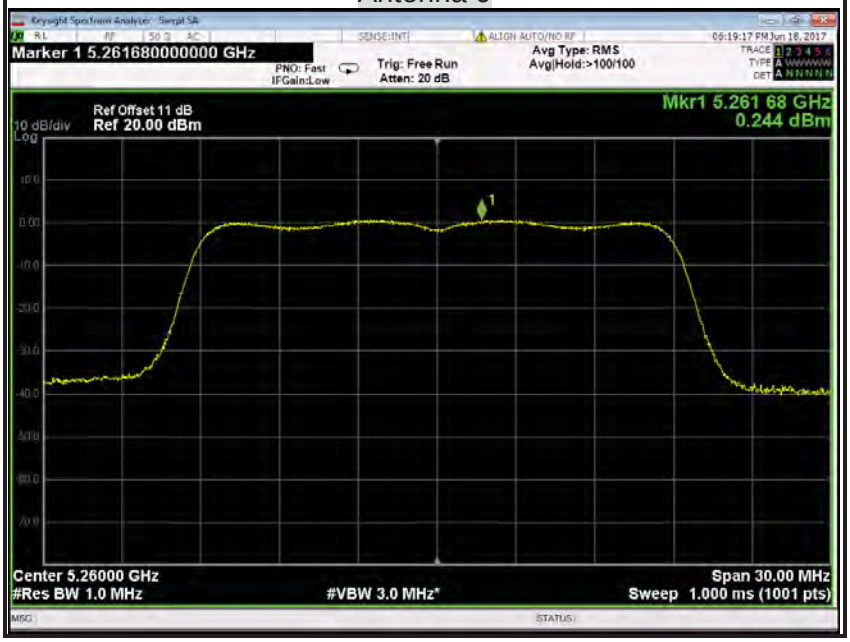
PPSD (CH Mid)

Antenna 1

PPSD (CH High)

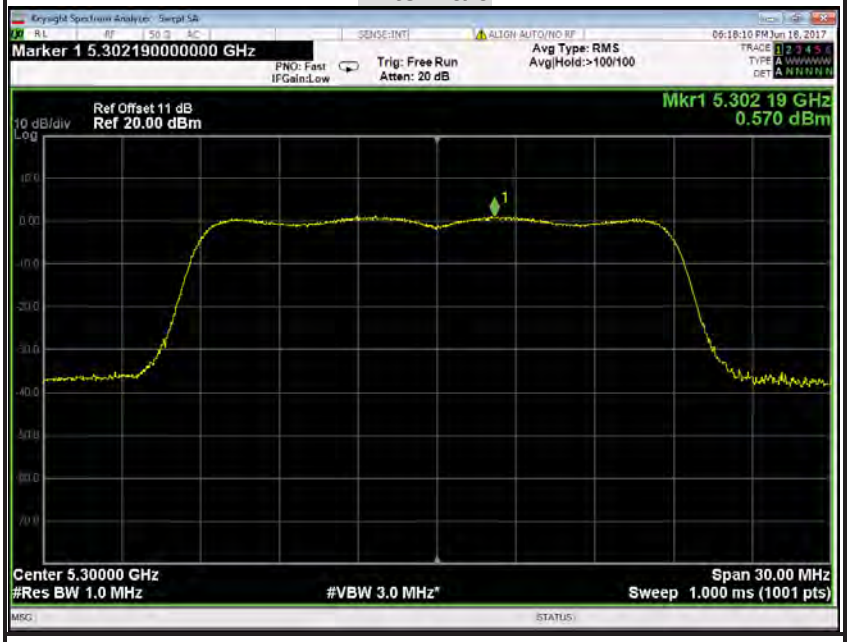
Antenna 1

IEEE 802.11n 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

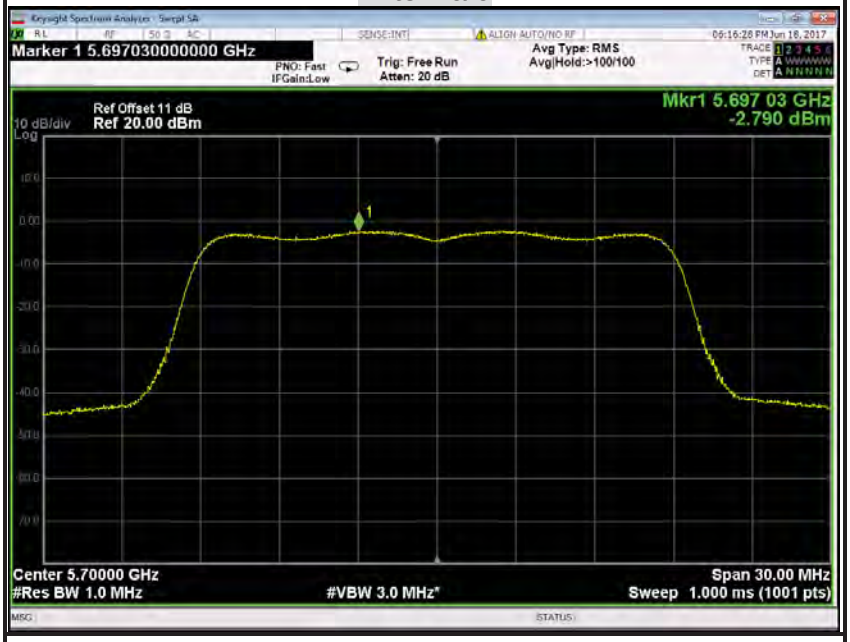
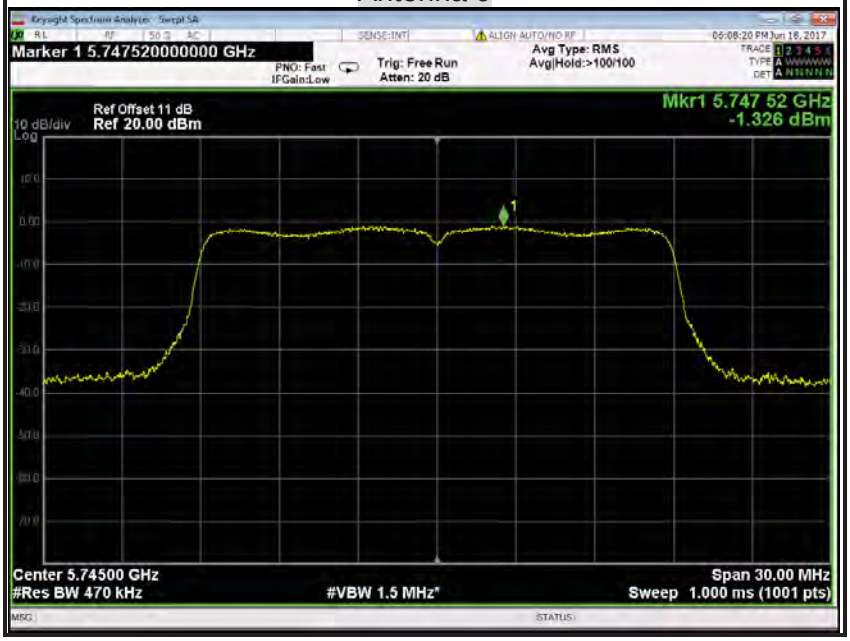


PPSD (CH High)

Antenna 0

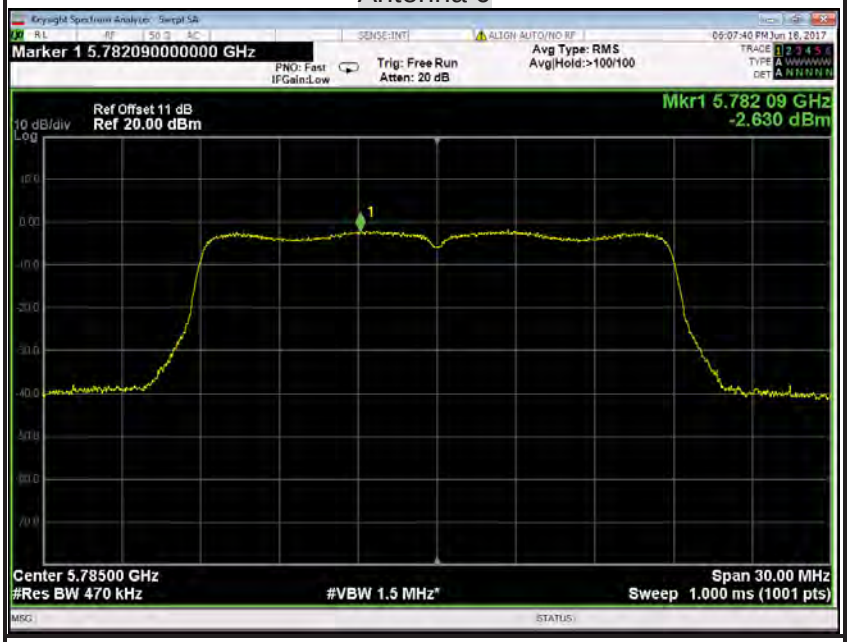
IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz
PPSD (CH Low)
Antenna 0

PPSD (CH Mid)
Antenna 0

PPSD (CH High)
Antenna 0

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz
PPSD (CH Low)
Antenna 0


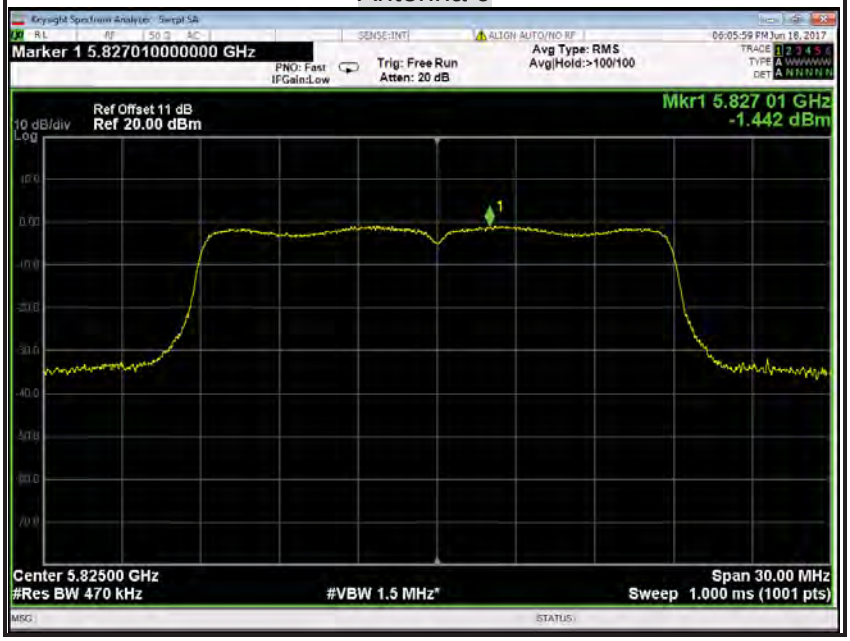
PPSD (CH Mid)

Antenna 0



PPSD (CH High)

Antenna 0

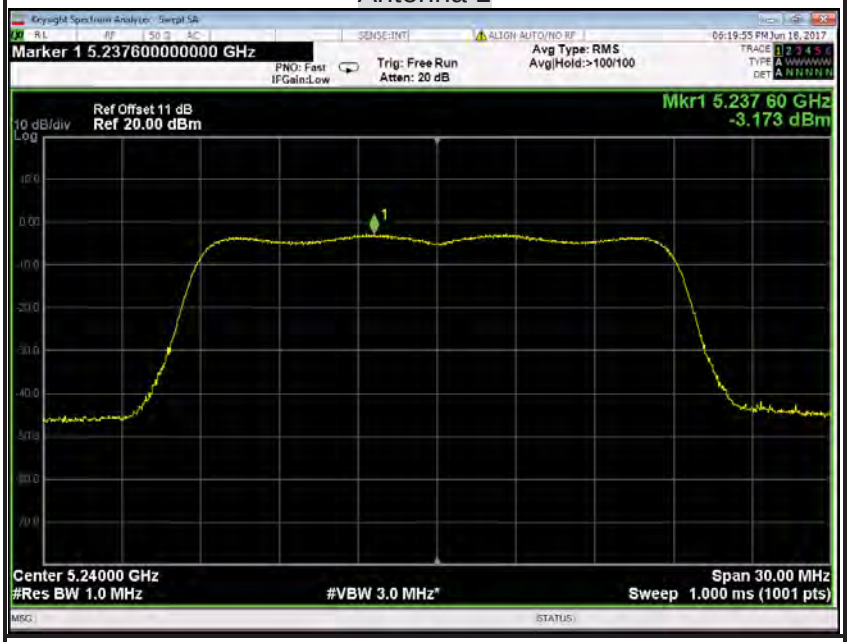


IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz
PPSD (CH Low)
Antenna 1

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)

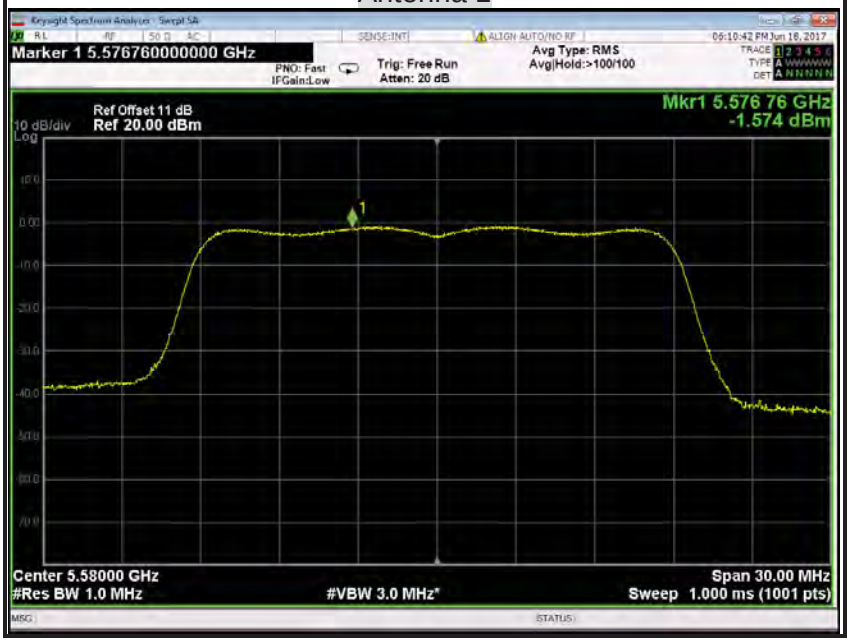
Antenna 1

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)

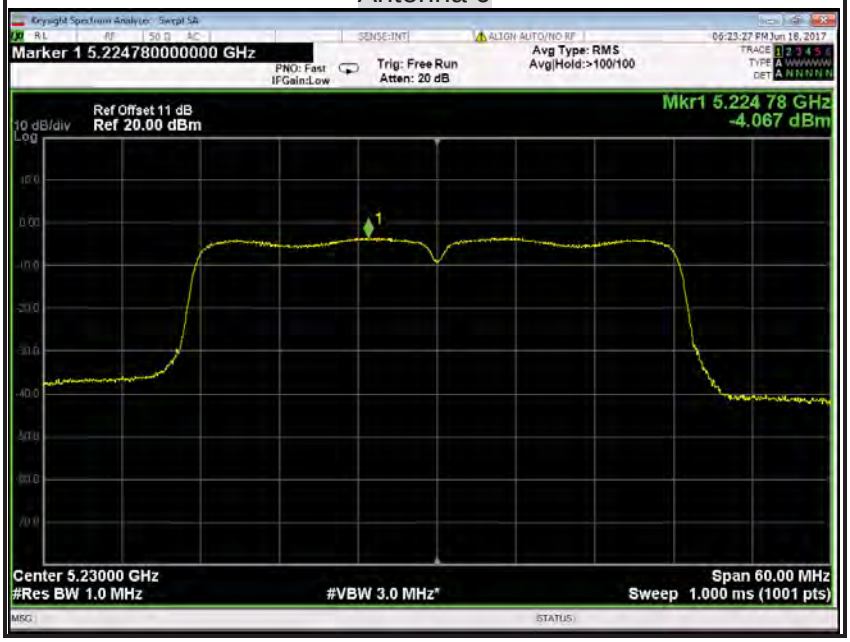
Antenna 1

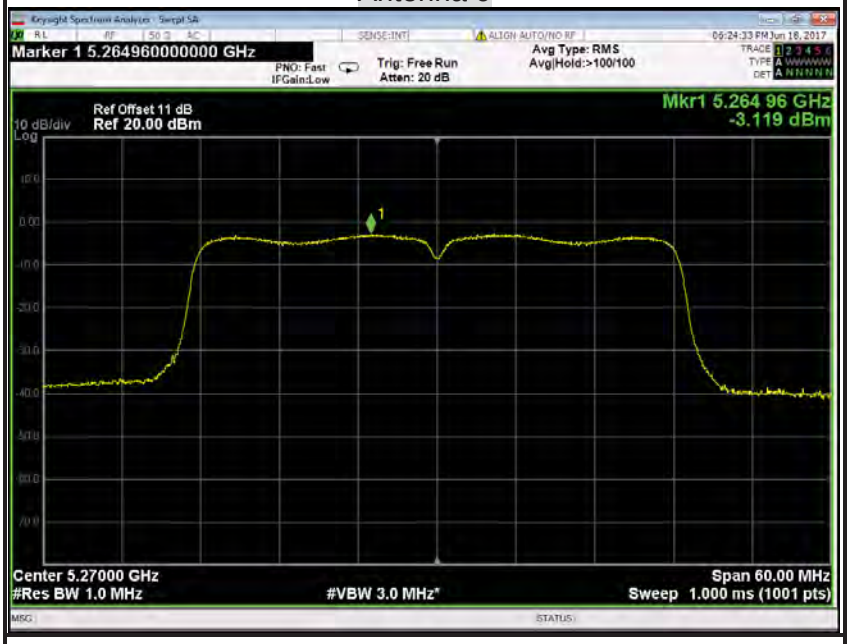
PPSD (CH High)

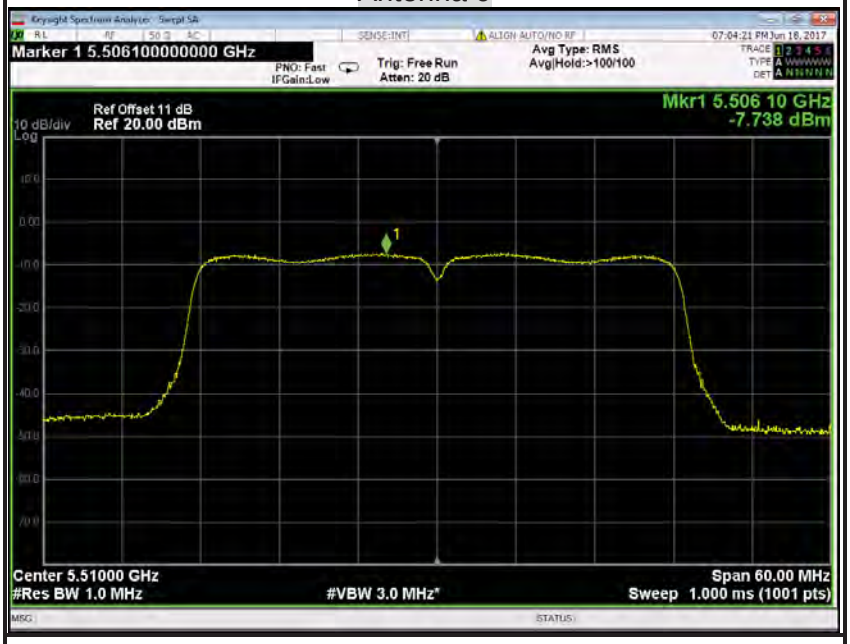
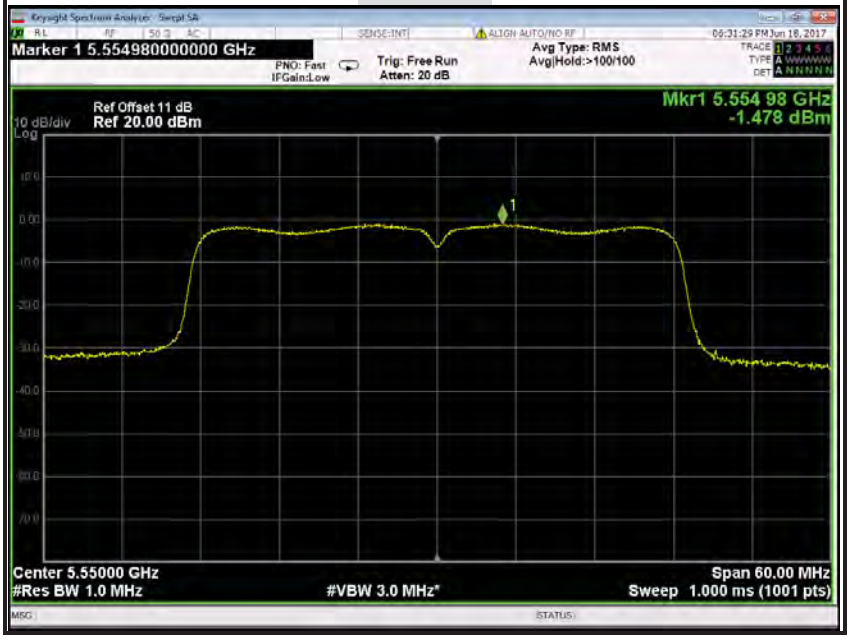
Antenna 1

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz
PPSD (CH Low)
Antenna 0

PPSD (CH High)
Antenna 0



IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz
PPSD (CH Low)
Antenna 0

PPSD (CH High)
Antenna 0


IEEE 802.11n HT 40 MHz mode / 5510~5670MHz
PPSD (CH Low)
Antenna 0

PPSD (CH Mid)
Antenna 0


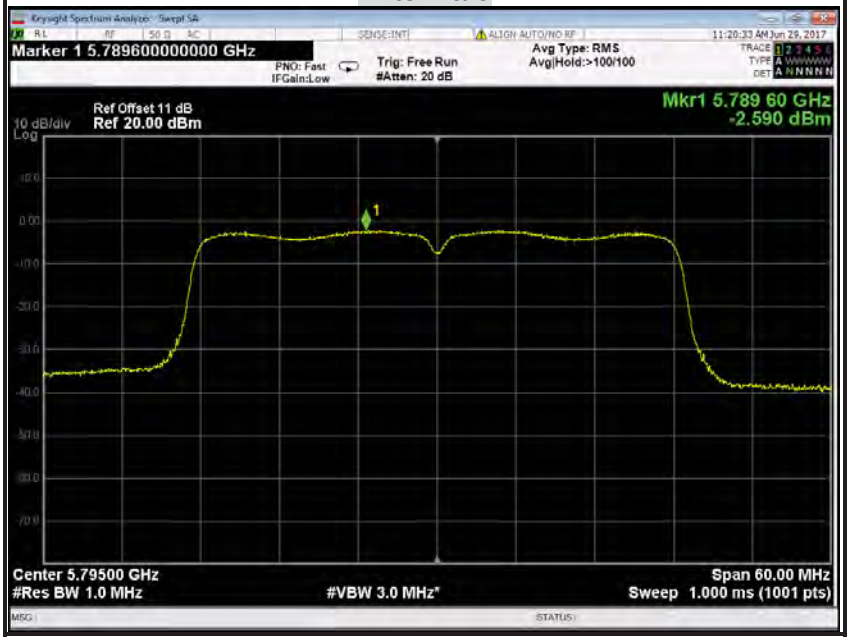
PPSD (CH High)

Antenna 0

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

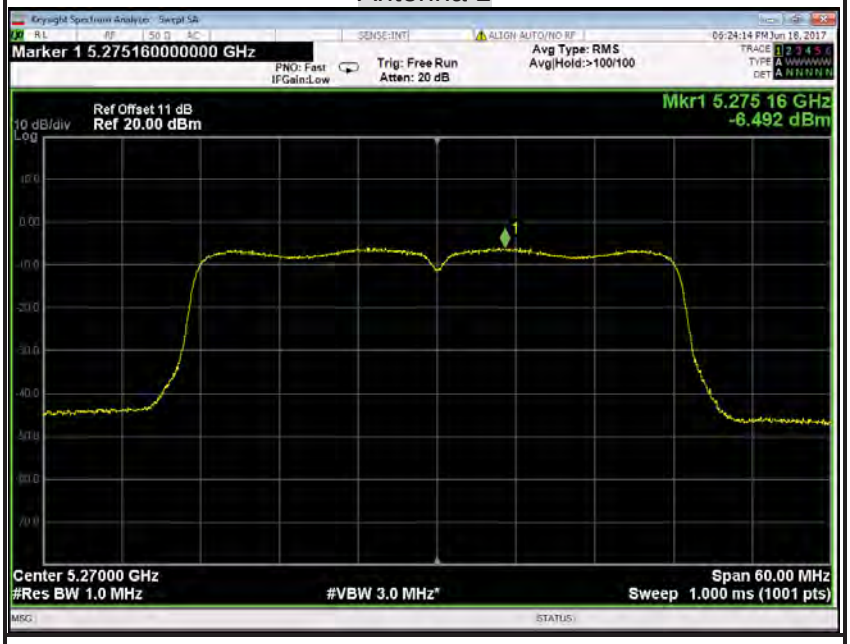
PPSD (CH Low)

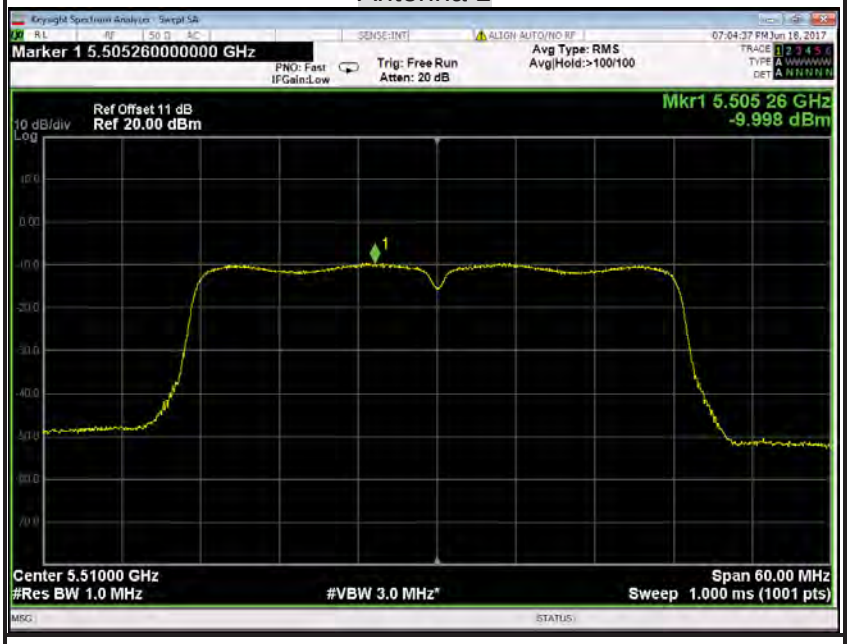
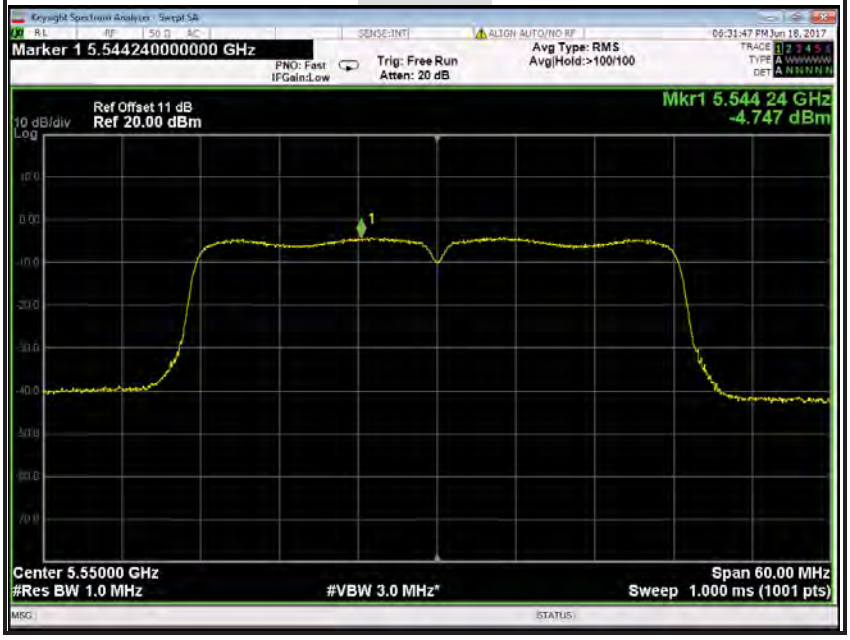
Antenna 0

PPSD (CH High)
Antenna 0


IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz
PPSD (CH Low)
Antenna 1

PPSD (CH High)
Antenna 1

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

PPSD (CH High)
Antenna 1


IEEE 802.11n HT 40 MHz mode / 5510~5670MHz
PPSD (CH Low)
Antenna 1

PPSD (CH Mid)
Antenna 1


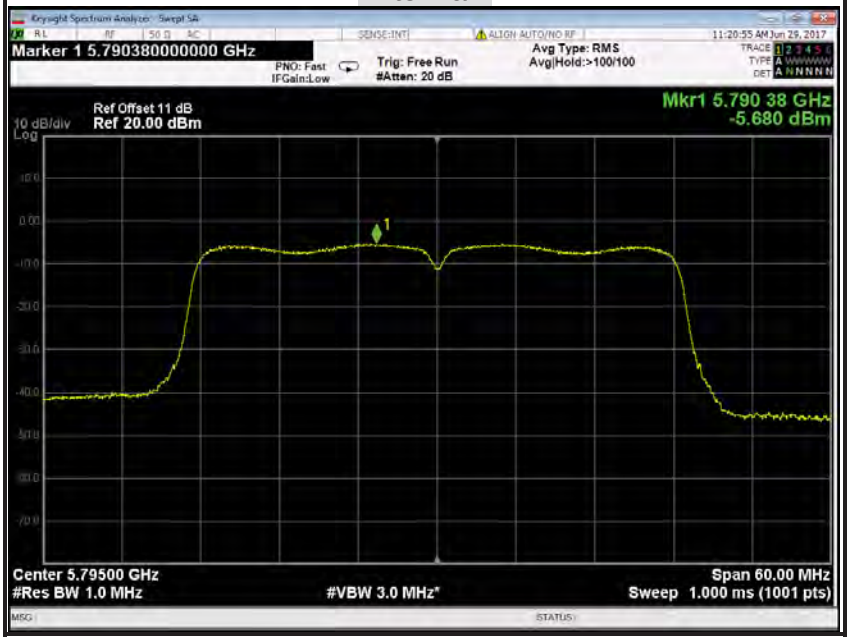
PPSD (CH High)

Antenna 1

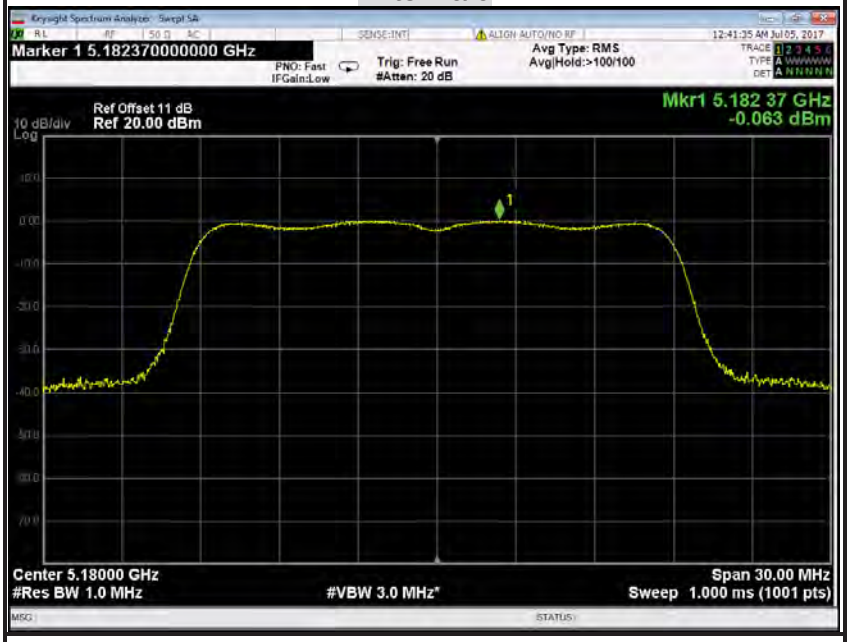
IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

PPSD (CH Low)

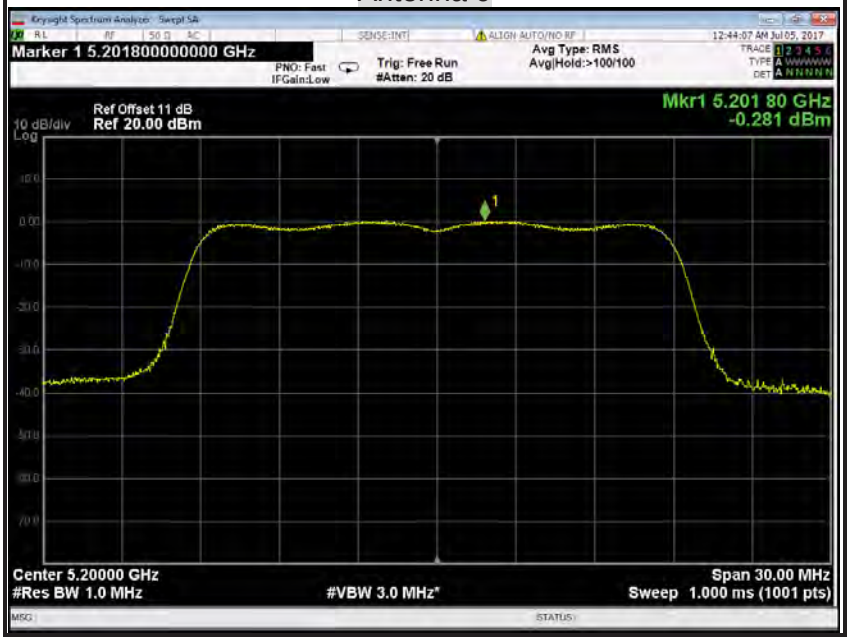
Antenna 1

PPSD (CH High)
Antenna 1


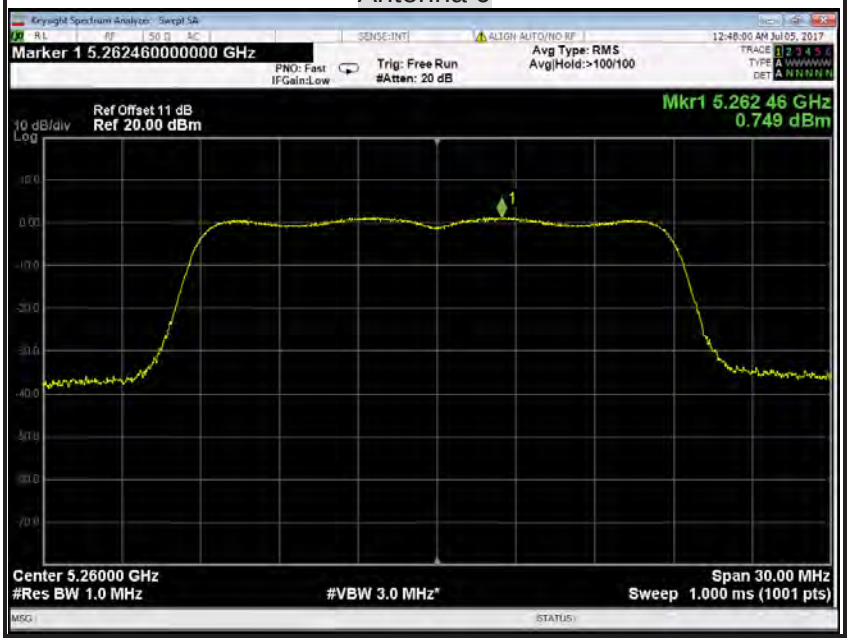
IEEE 802.11ac 20 MHz mode / 5180 ~ 5240MHz
PPSD (CH Low)
Antenna 0



PPSD (CH Mid)
Antenna 0

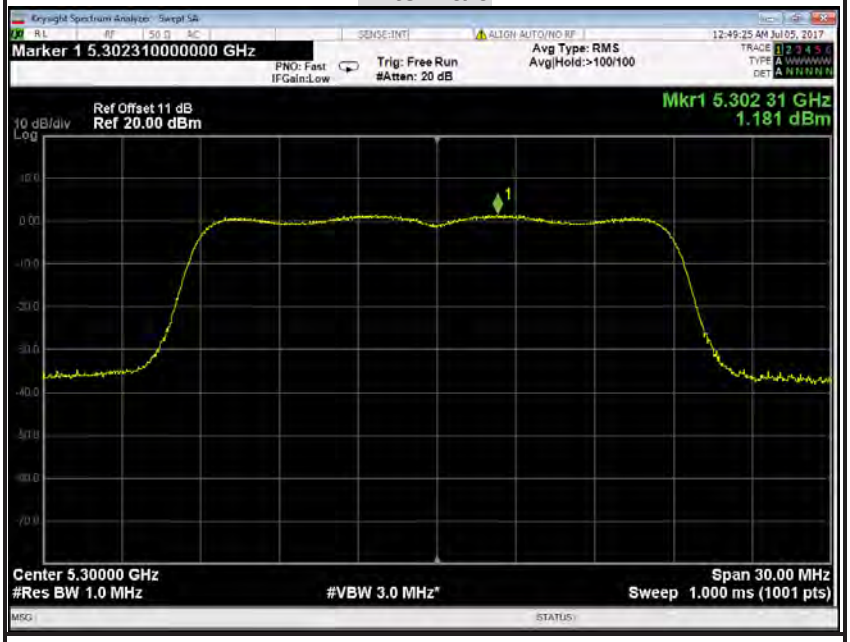


PPSD (CH High)
Antenna 0

IEEE 802.11ac 20 MHz mode / 5260~ 5320MHz
PPSD (CH Low)
Antenna 0


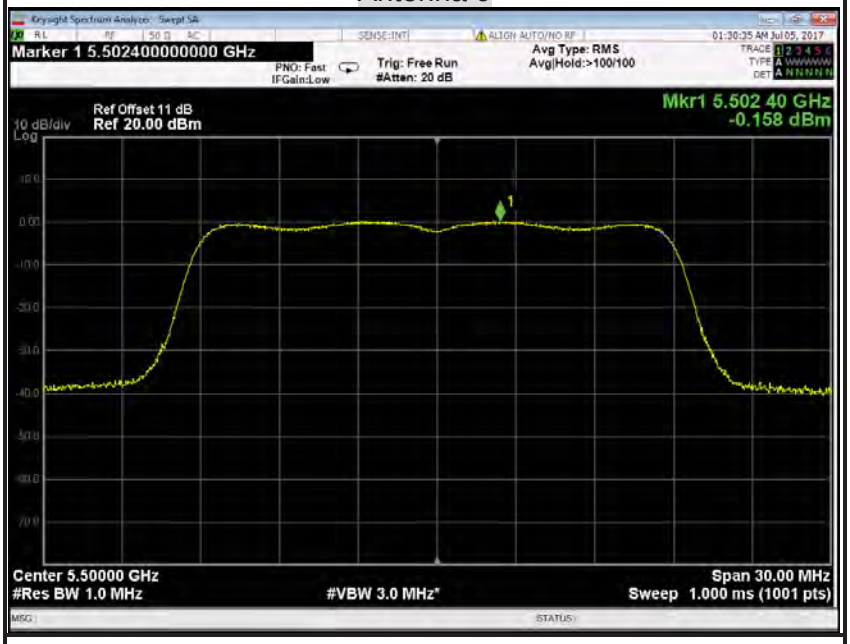
PPSD (CH Mid)

Antenna 0



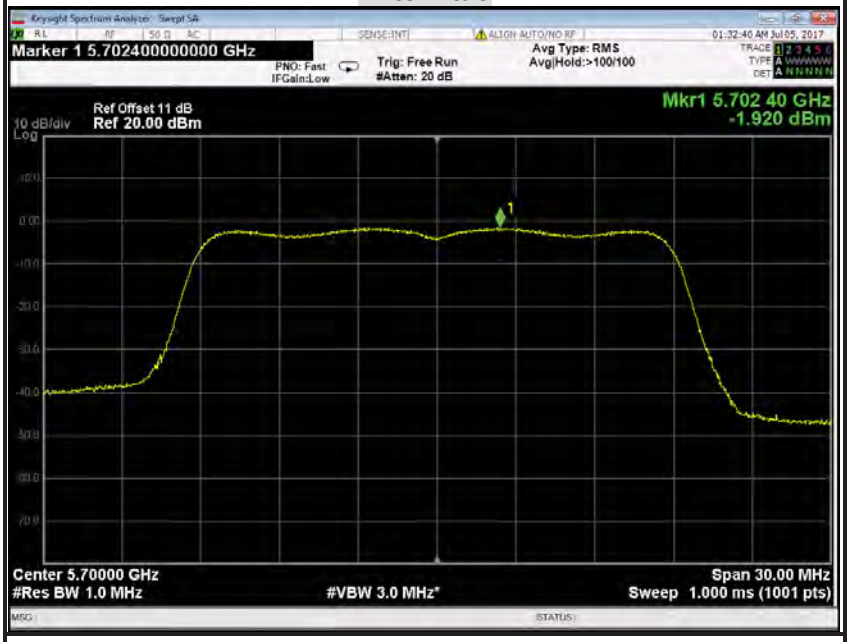
PPSD (CH High)

Antenna 0

IEEE 802.11ac 20 MHz mode / 5500 ~ 5700MHz
PPSD (CH Low)
Antenna 0

PPSD (CH Mid)
Antenna 0


PPSD (CH High)

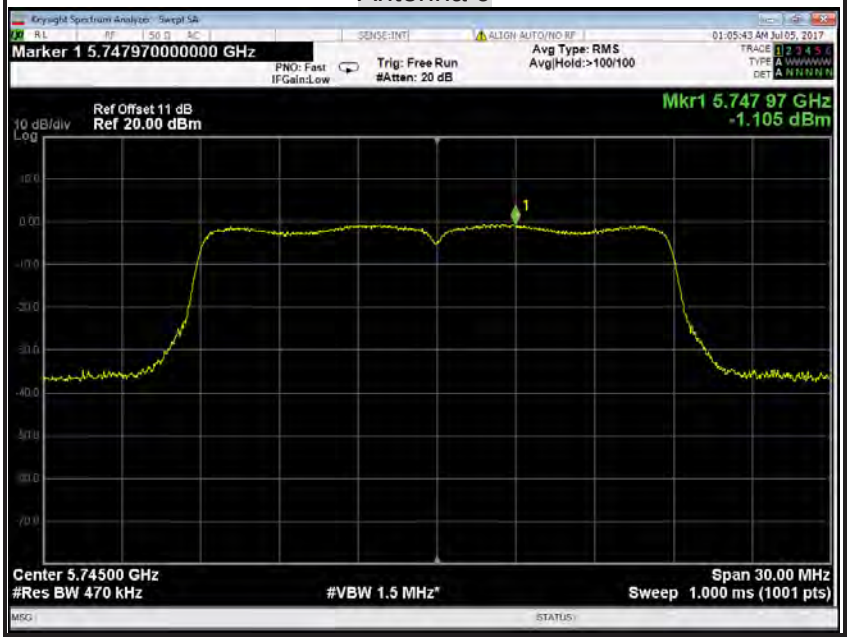
Antenna 0



IEEE 802.11ac 20 MHz mode / 5745 ~ 5825MHz

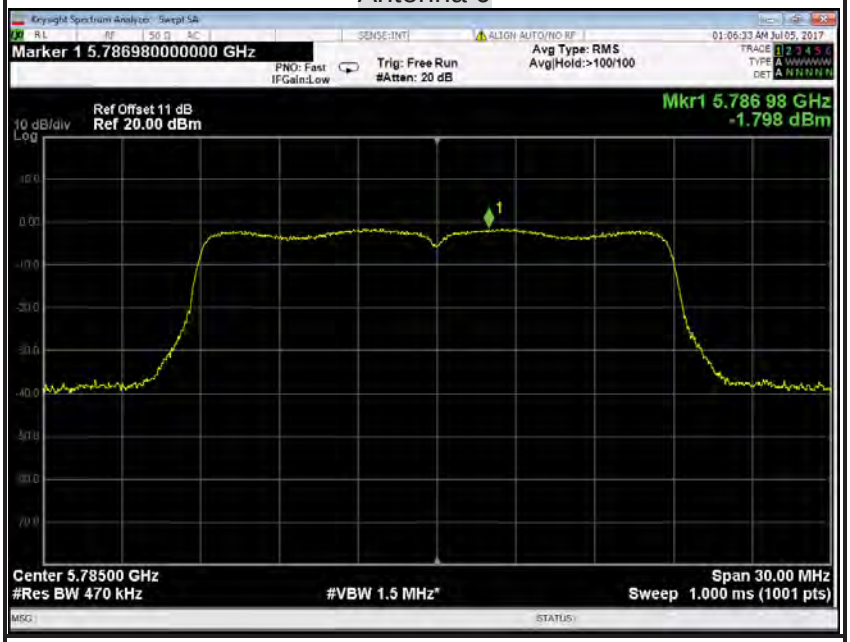
PPSD (CH Low)

Antenna 0



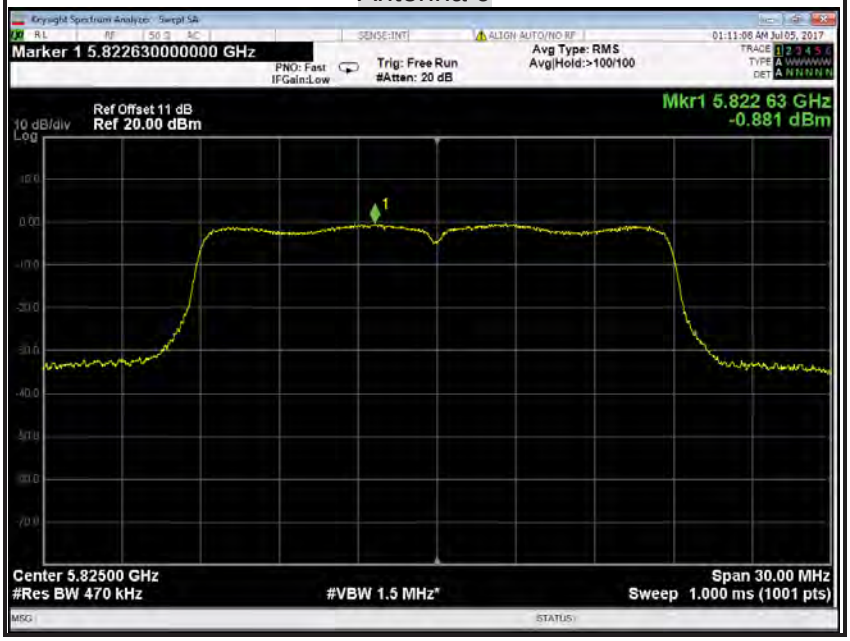
PPSD (CH Mid)

Antenna 0



PPSD (CH High)

Antenna 0



IEEE 802.11ac 20 MHz mode / 5180 ~ 5240MHz

PPSD (CH Low)

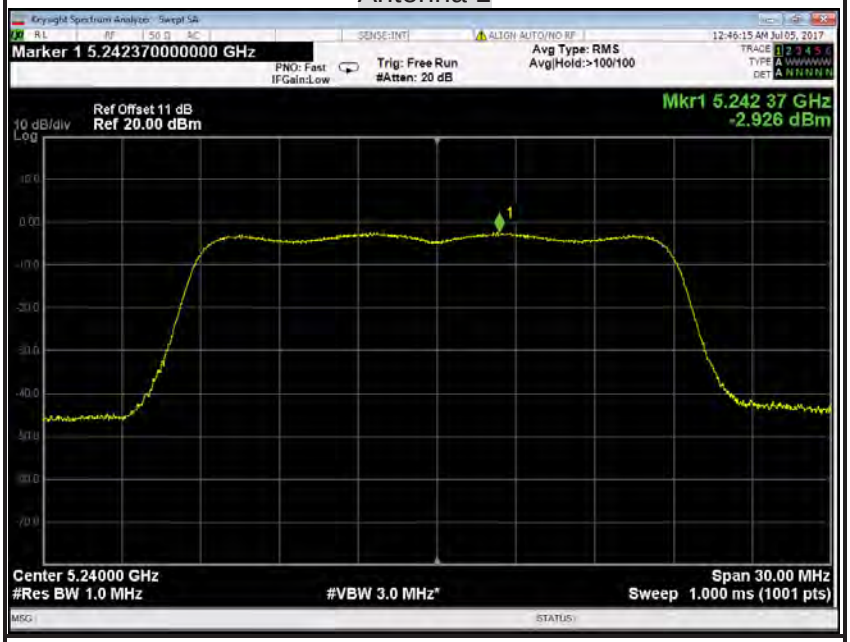
Antenna 1

PPSD (CH Mid)

Antenna 1

PPSD (CH High)

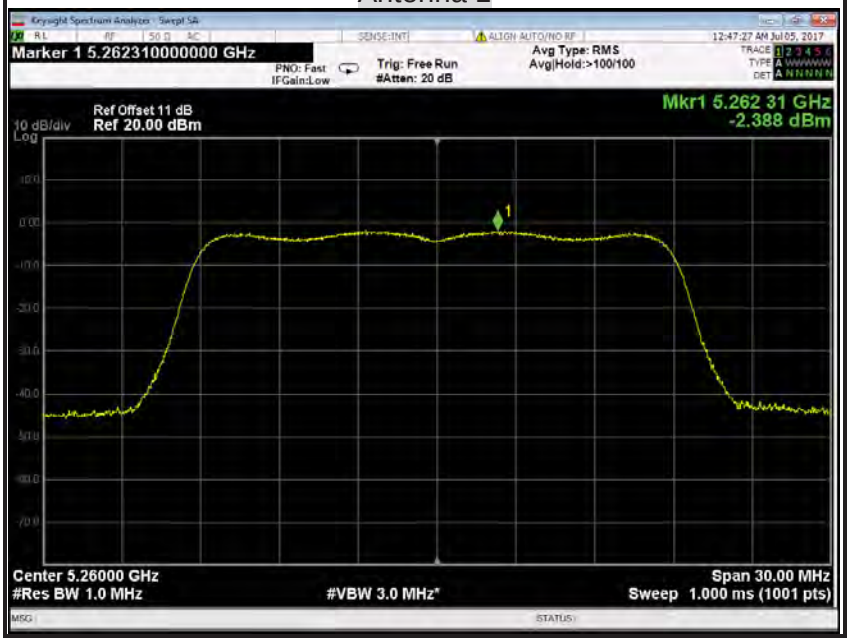
Antenna 1



IEEE 802.11ac 20 MHz mode / 5260~ 5320MHz

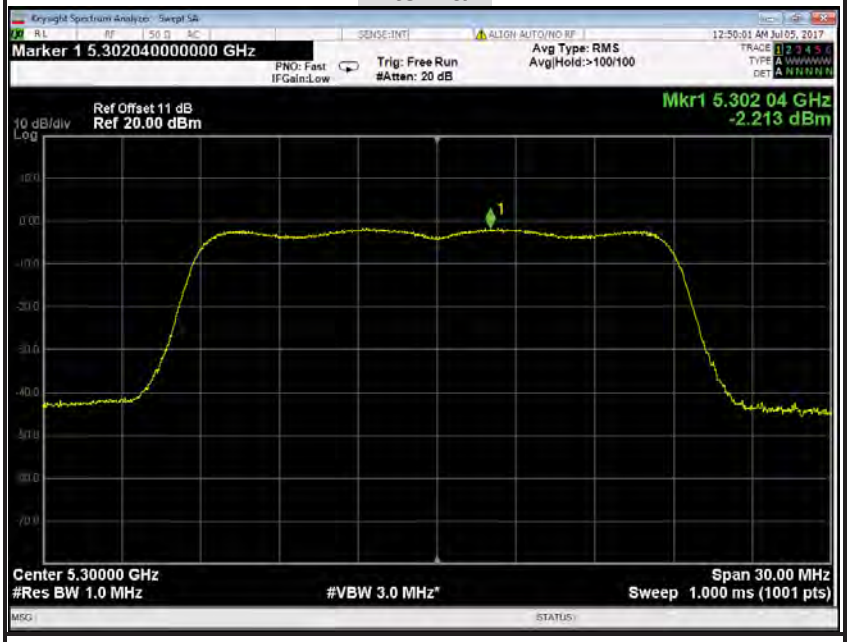
PPSD (CH Low)

Antenna 1



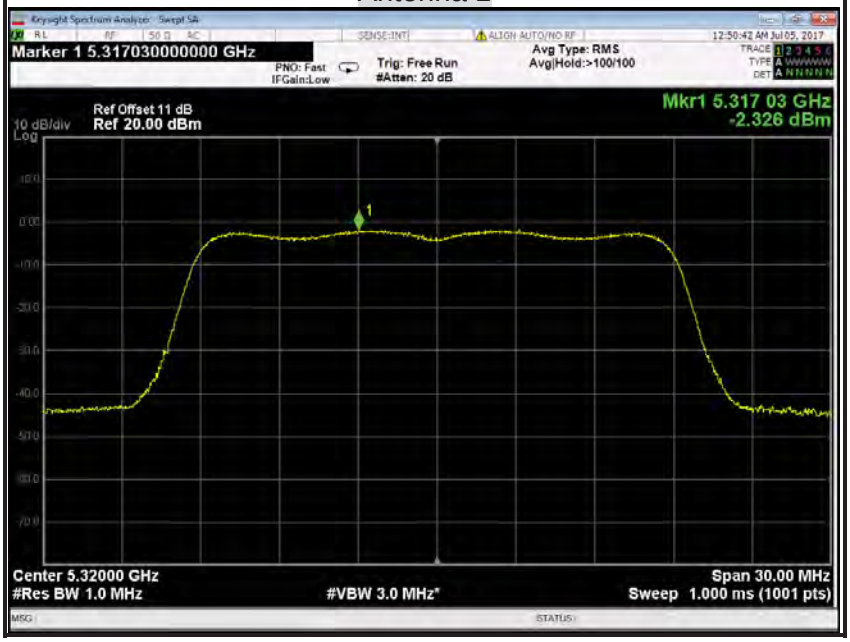
PPSD (CH Mid)

Antenna 1

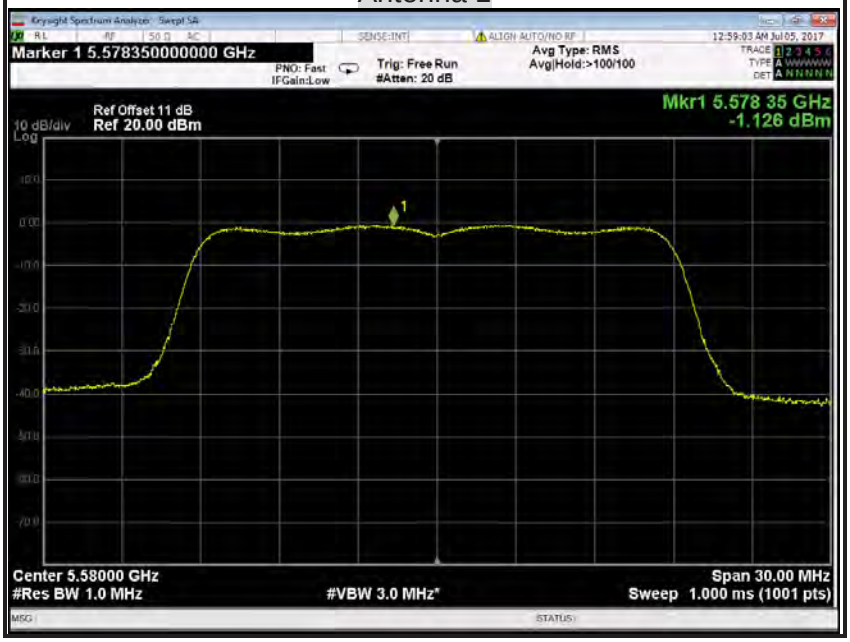


PPSD (CH High)

Antenna 1



IEEE 802.11ac 20 MHz mode / 5500 ~ 5700MHz
PPSD (CH Low)
Antenna 1

PPSD (CH Mid)
Antenna 1


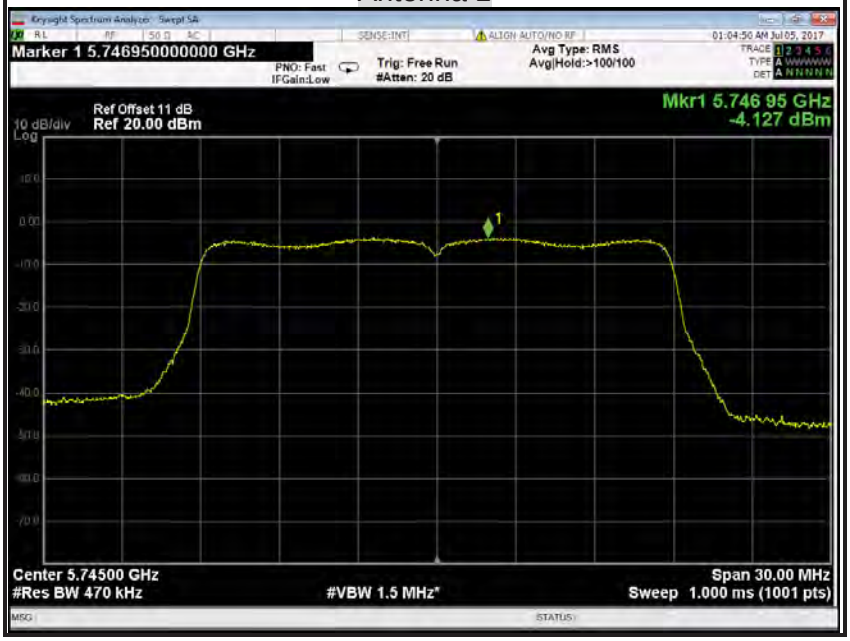
PPSD (CH High)

Antenna 1

IEEE 802.11ac 20 MHz mode / 5745 ~ 5825MHz

PPSD (CH Low)

Antenna 1

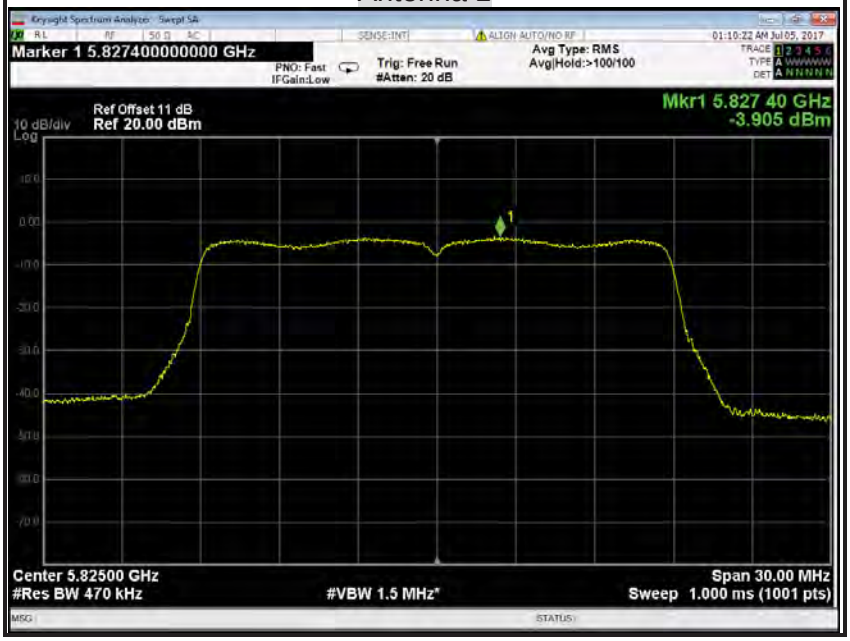


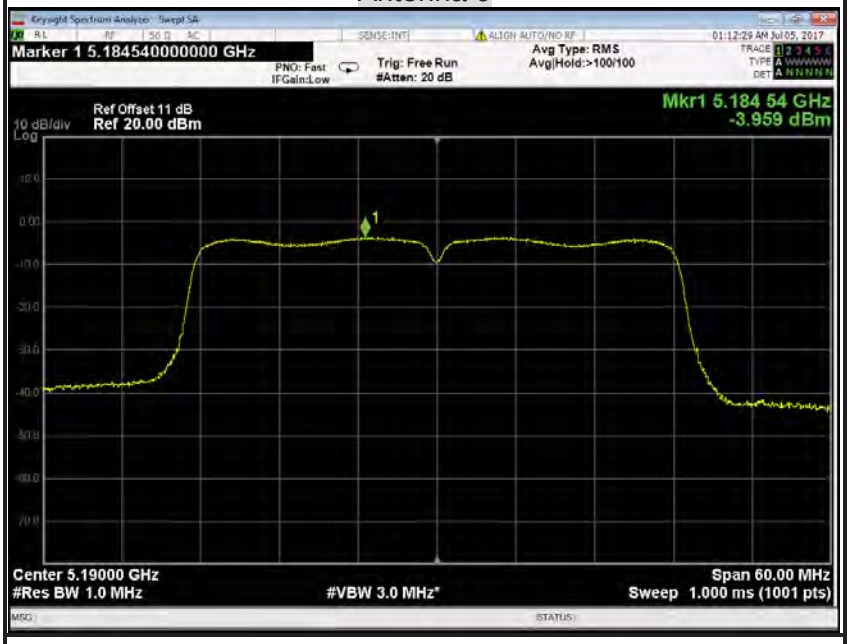
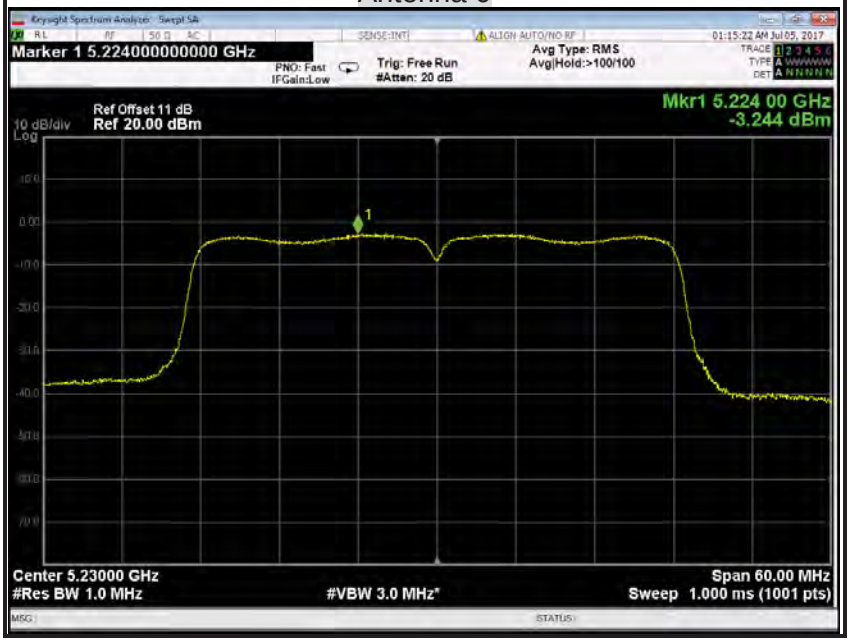
PPSD (CH Mid)

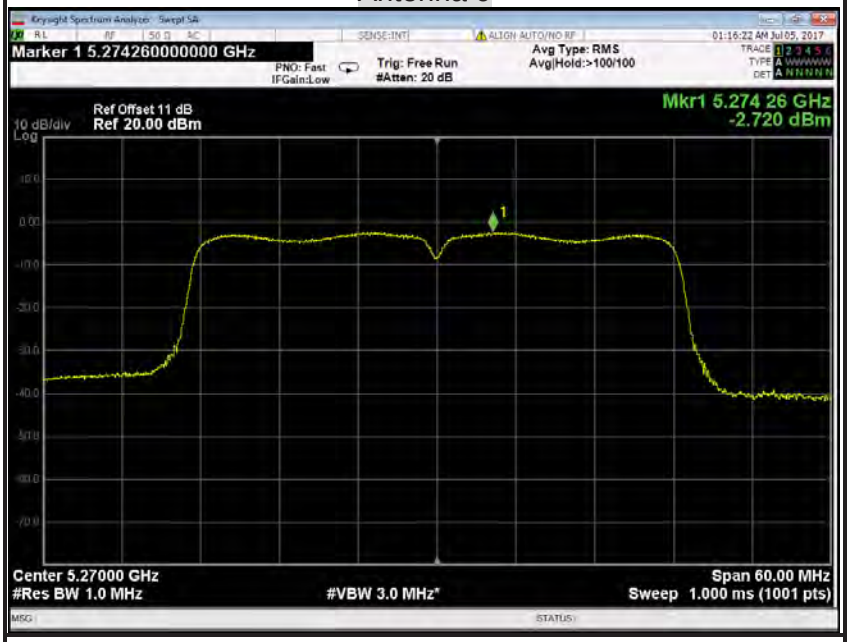
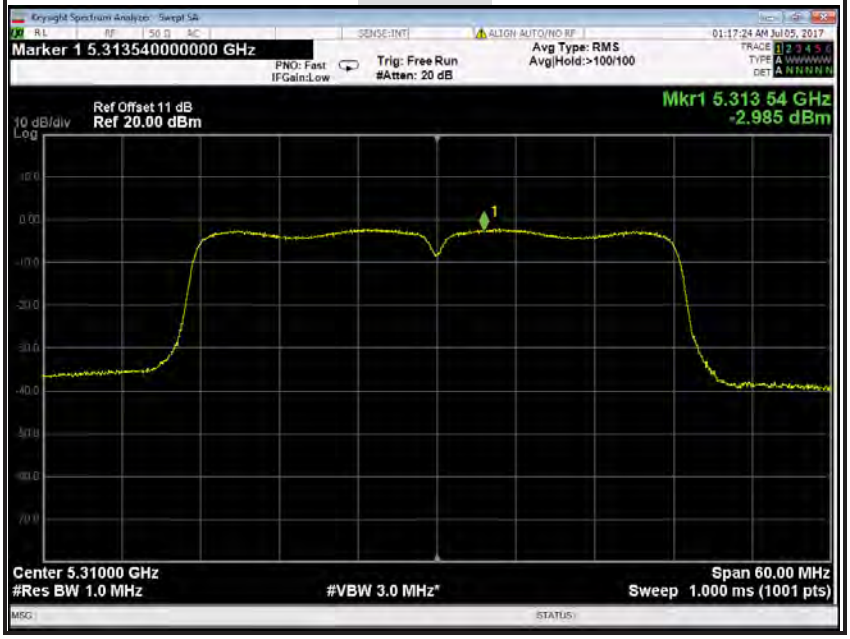
Antenna 1

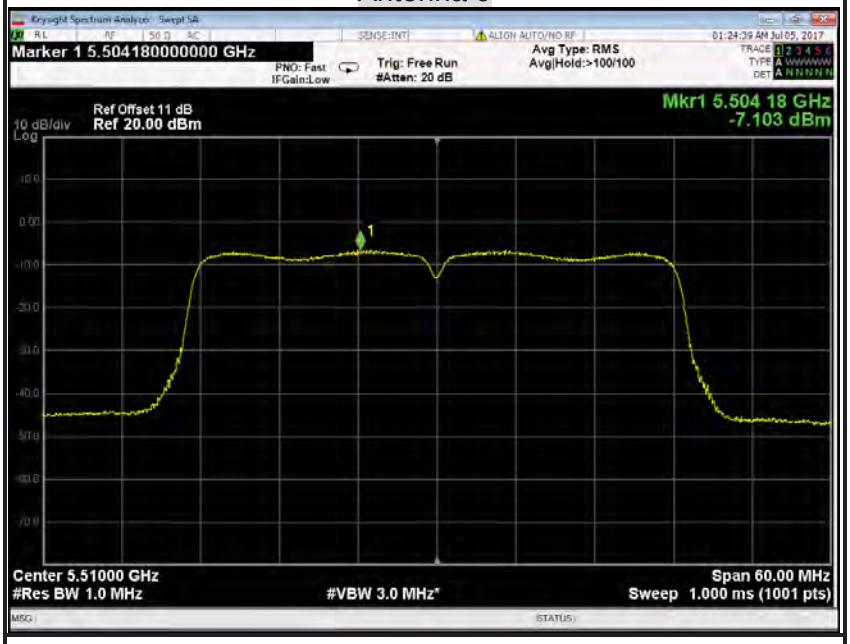
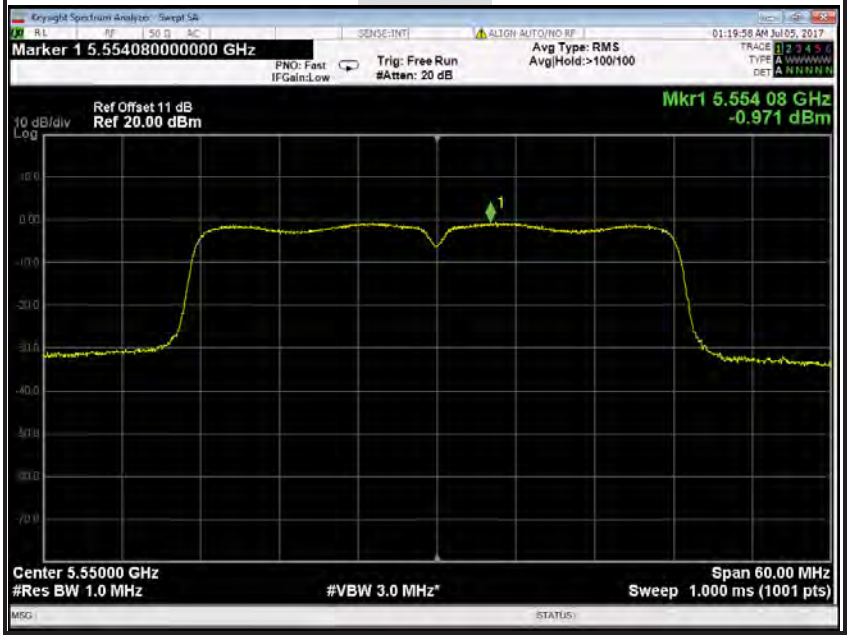
PPSD (CH High)

Antenna 1



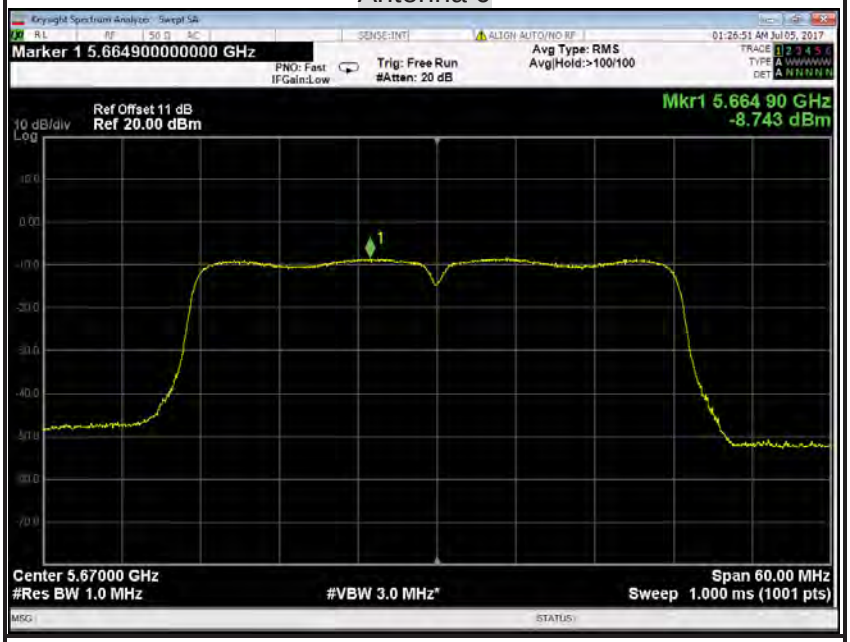
IEEE 802.11ac 40 MHz mode / 5190 ~ 5230MHz
PPSD (CH Low)
Antenna 0

PPSD (CH High)
Antenna 0


IEEE 802.11ac 40 MHz mode / 5270 ~ 5310MHz
PPSD (CH Low)
Antenna 0

PPSD (CH High)
Antenna 0


IEEE 802.11ac 40 MHz mode / 5510~5670MHz
PPSD (CH Low)
Antenna 0

PPSD (CH Mid)
Antenna 0


PPSD (CH High)

Antenna 0



IEEE 802.11ac 40 MHz mode / 5755 ~ 5795MHz

PPSD (CH Low)

Antenna 0

PPSD (CH High)
Antenna 0