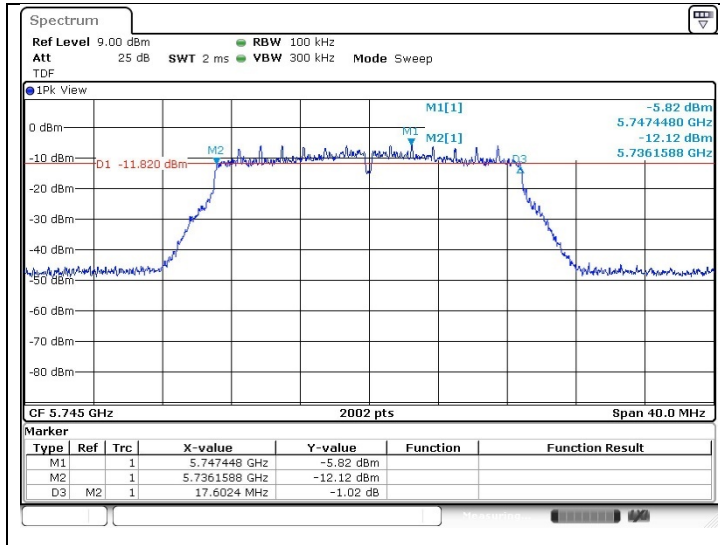
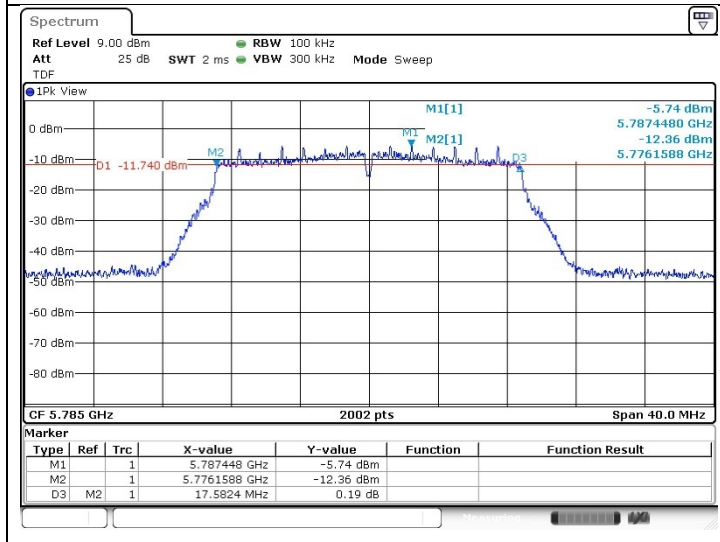


802.11ac_VHT20 (Band 3)

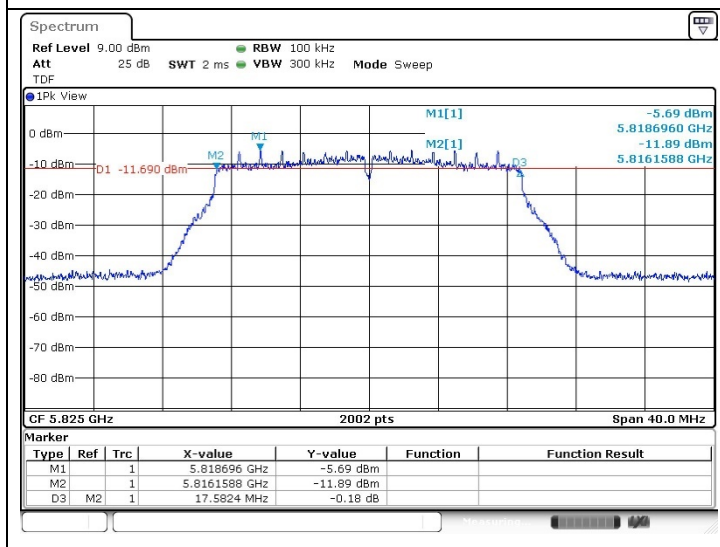
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

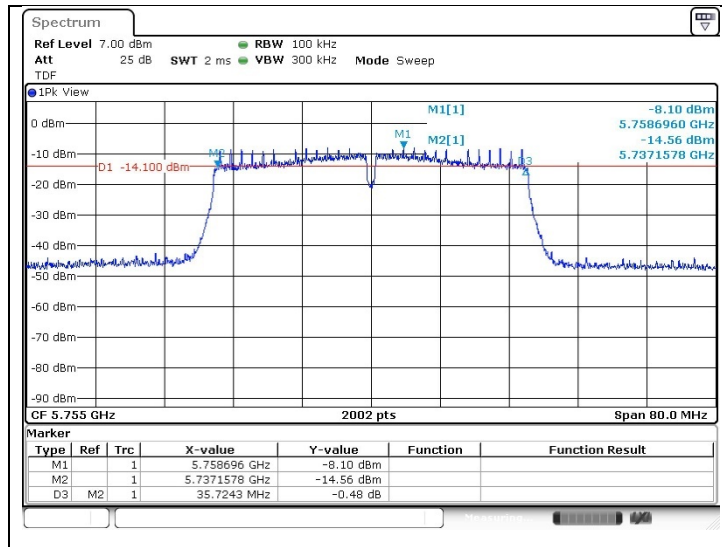


High Channel
(5 825 MHz)

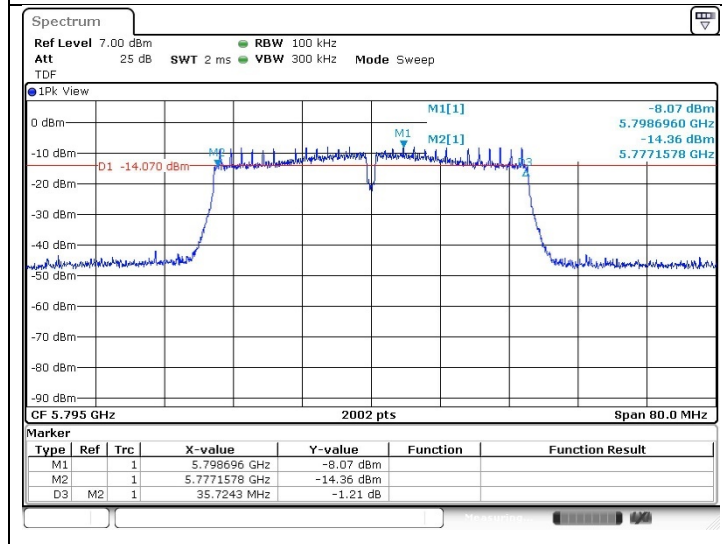


802.11ac_VHT40 (Band 3)

Low Channel
(5 755 MHz)

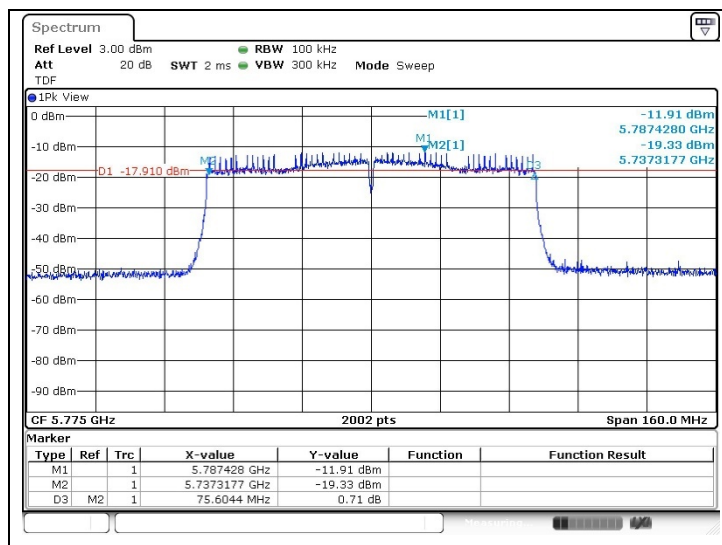


High Channel
(5 795 MHz)



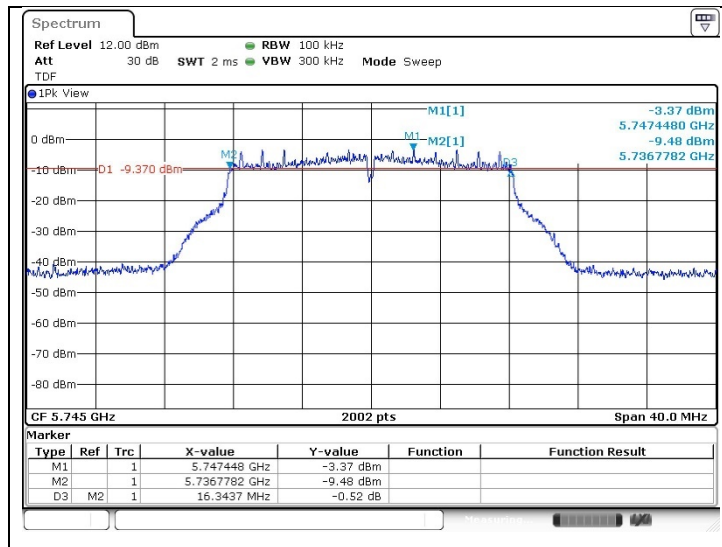
802.11ac_VHT80 (Band 3)

Middle Channel
(5 775 MHz)

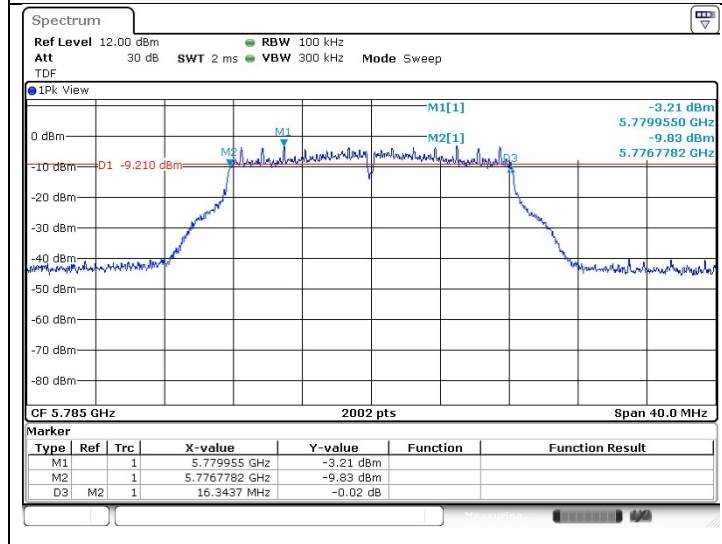


SISO_Core 1 802.11a (Band 3)

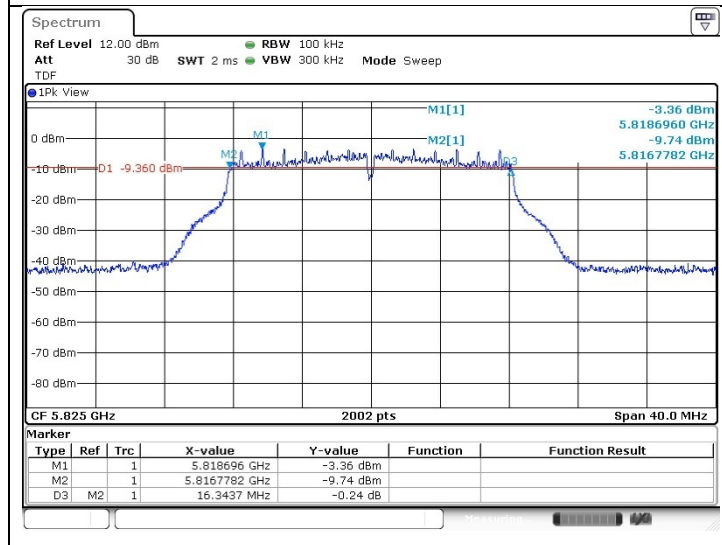
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

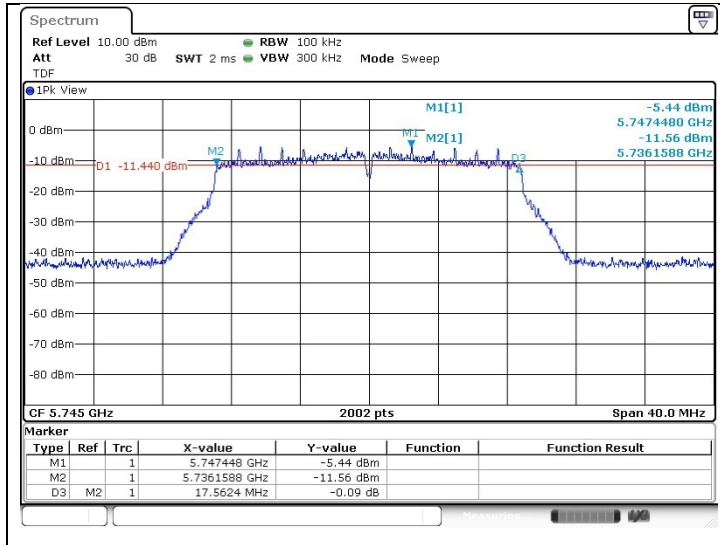


High Channel
(5 825 MHz)

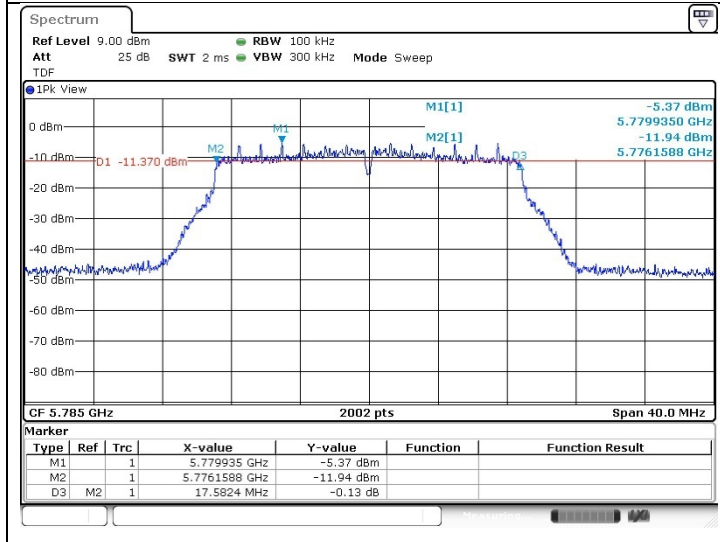


802.11ac_VHT20 (Band 3)

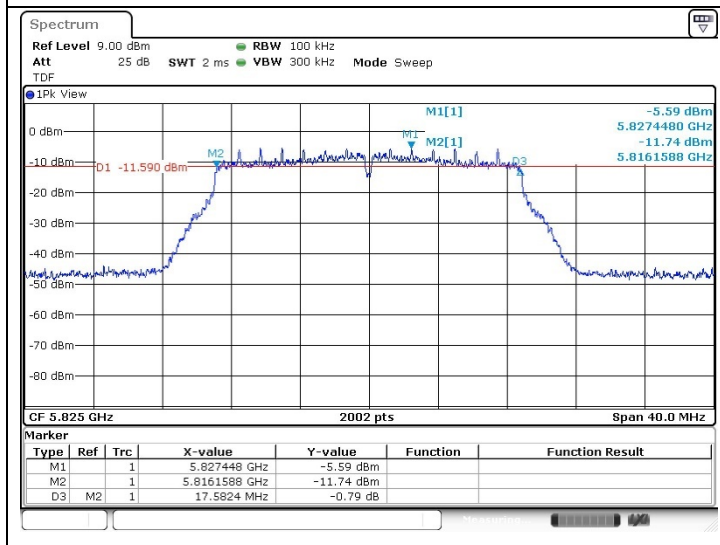
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

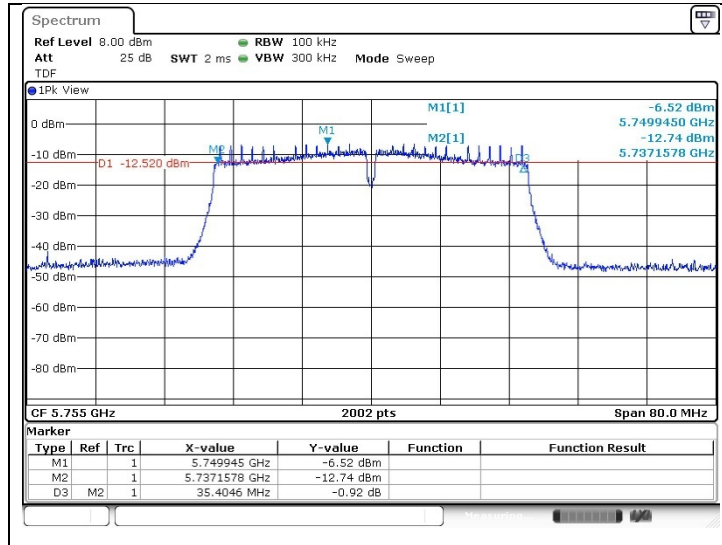


High Channel
(5 825 MHz)

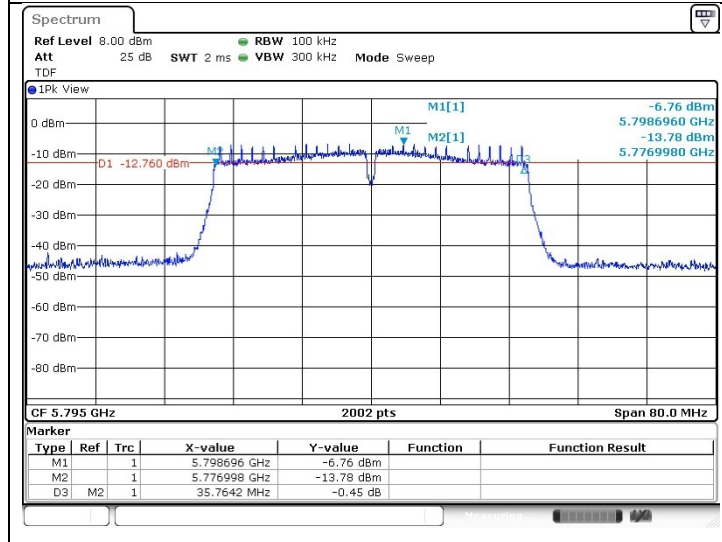


802.11ac_VHT40 (Band 3)

Low Channel
(5 755 MHz)

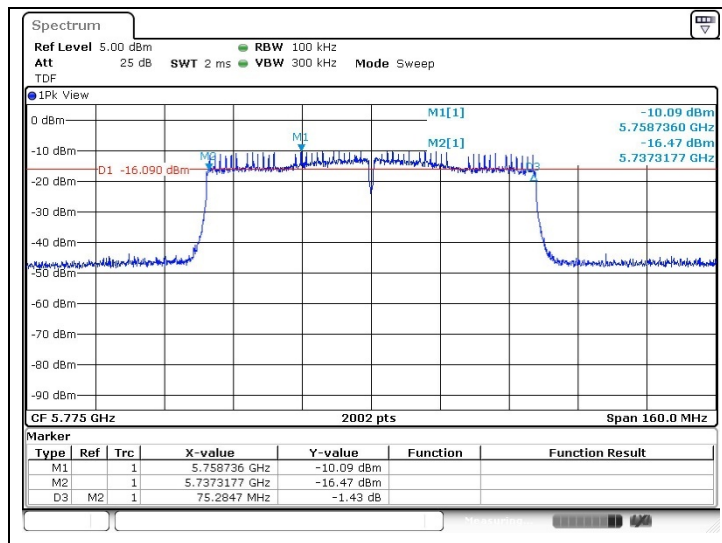


High Channel
(5 795 MHz)



802.11ac_VHT80 (Band 3)

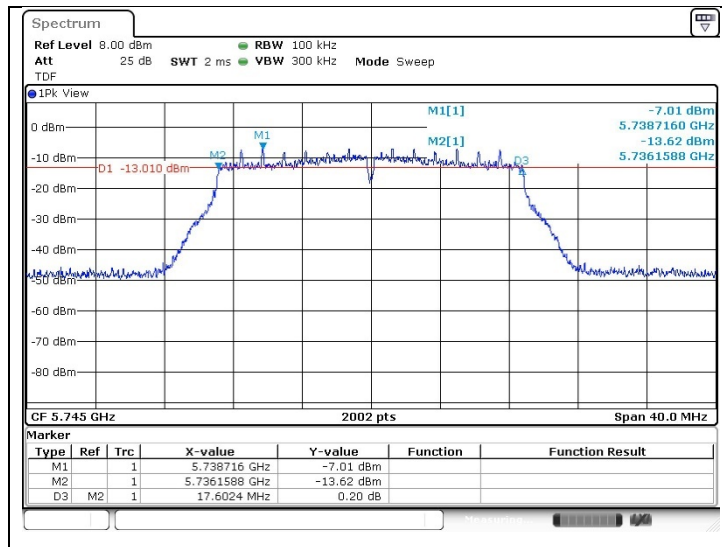
Middle Channel
(5 775 MHz)



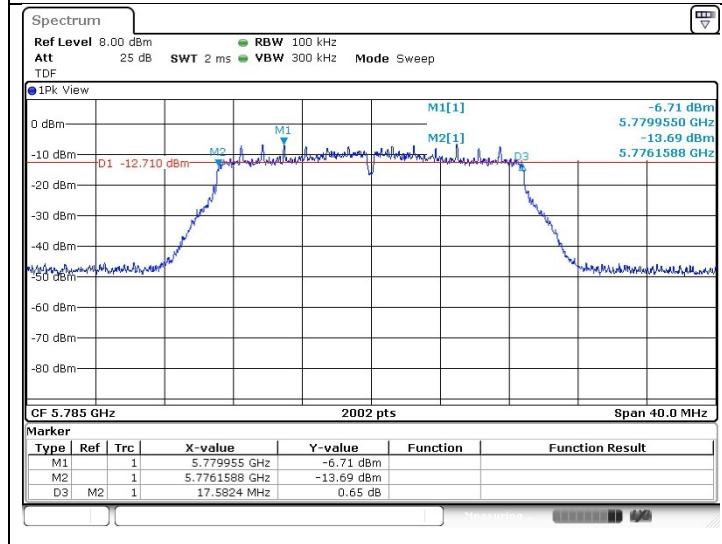
MIMO_Core 0

802.11ac_VHT20 (Band 3)

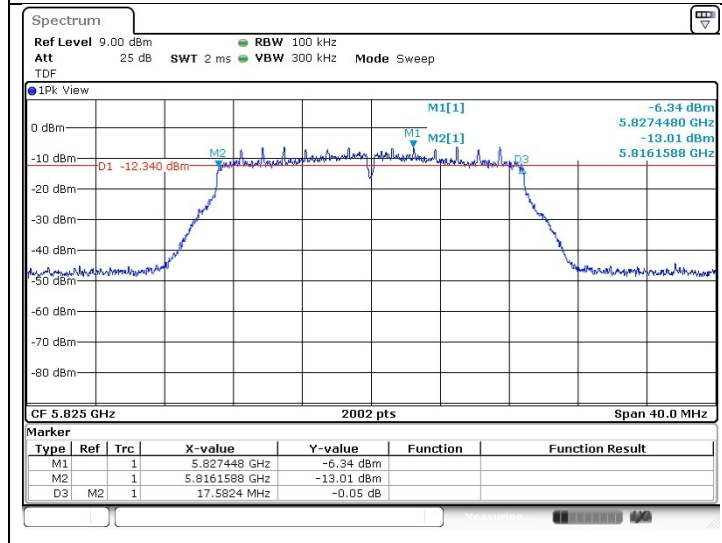
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

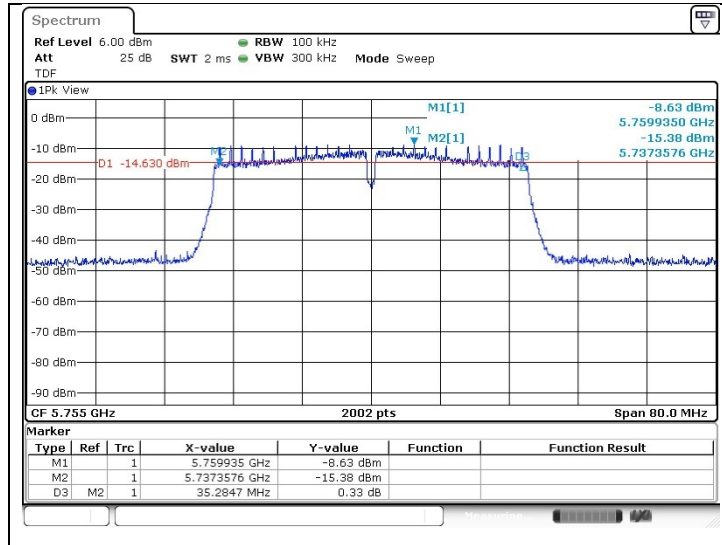


High Channel
(5 825 MHz)

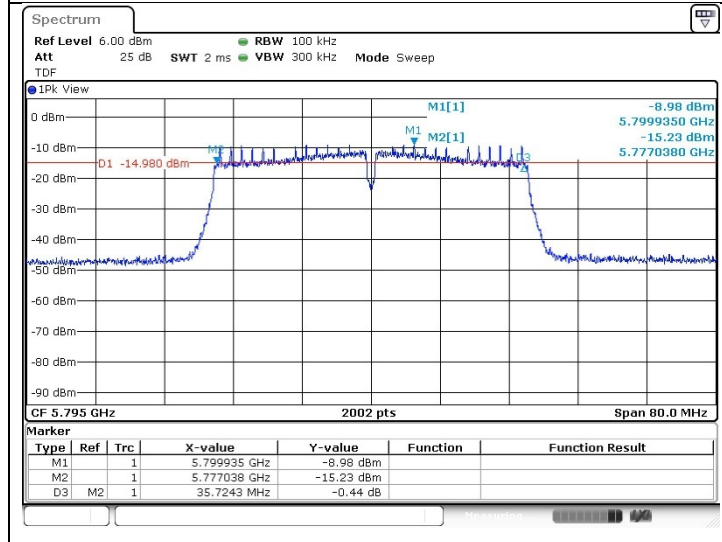


802.11ac_VHT40 (Band 3)

Low Channel
(5 755 MHz)

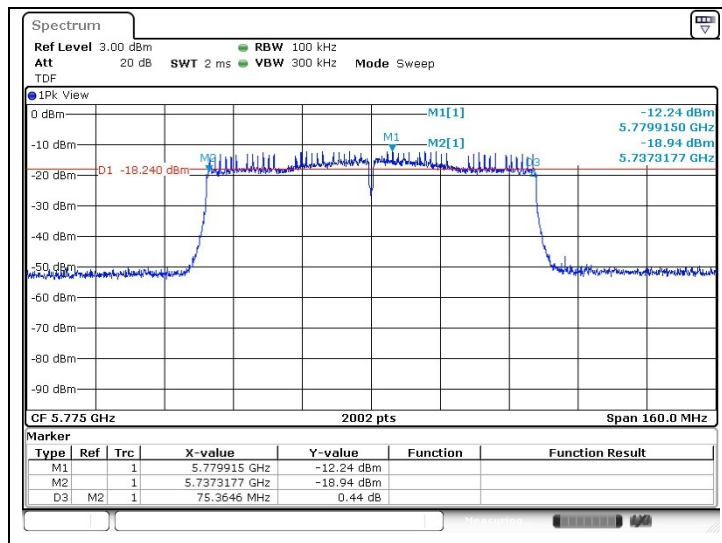


High Channel
(5 795 MHz)



802.11ac_VHT80 (Band 3)

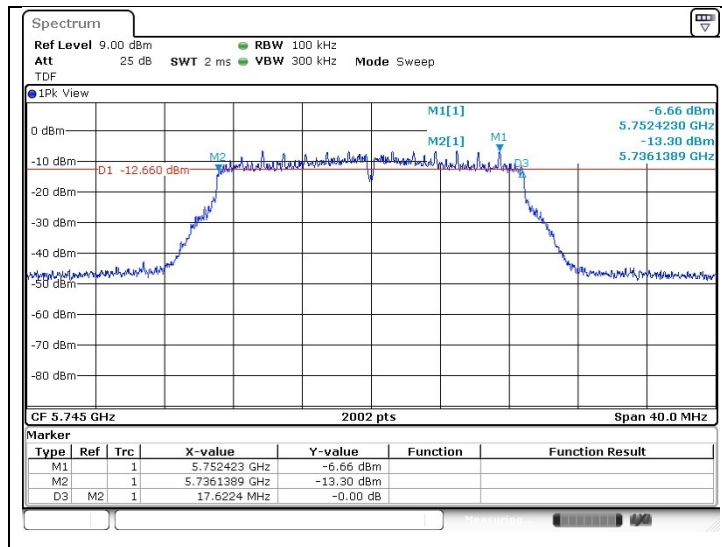
Middle Channel
(5 775 MHz)



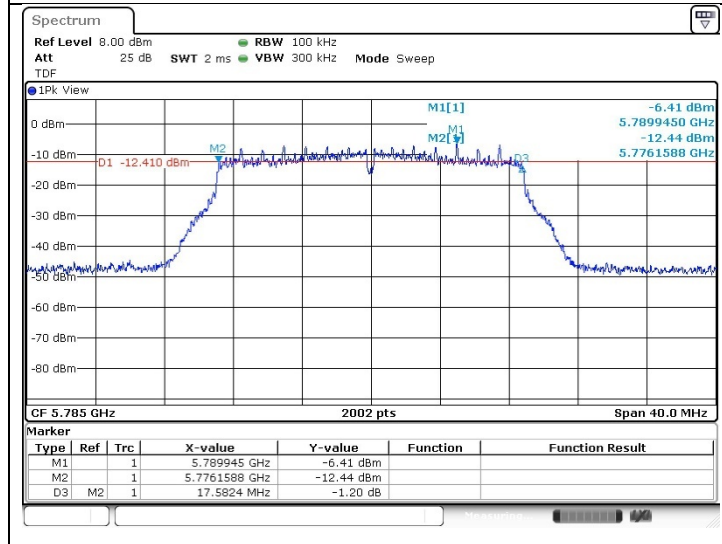
MIMO_Core 1

802.11ac_VHT20 (Band 3)

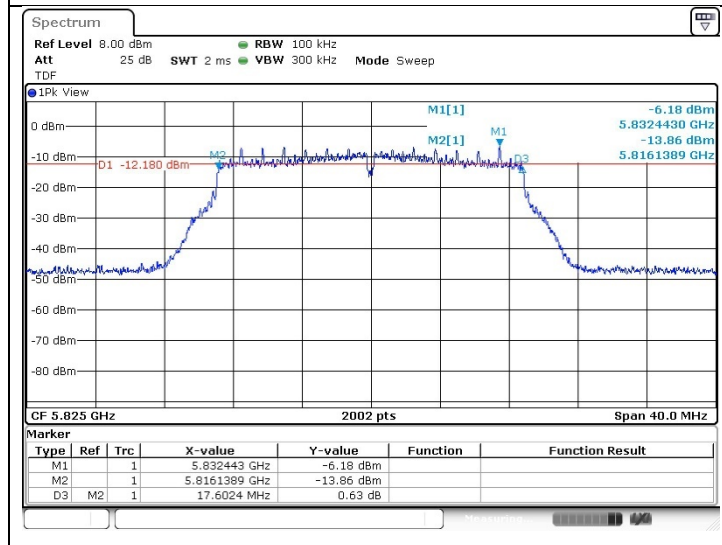
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

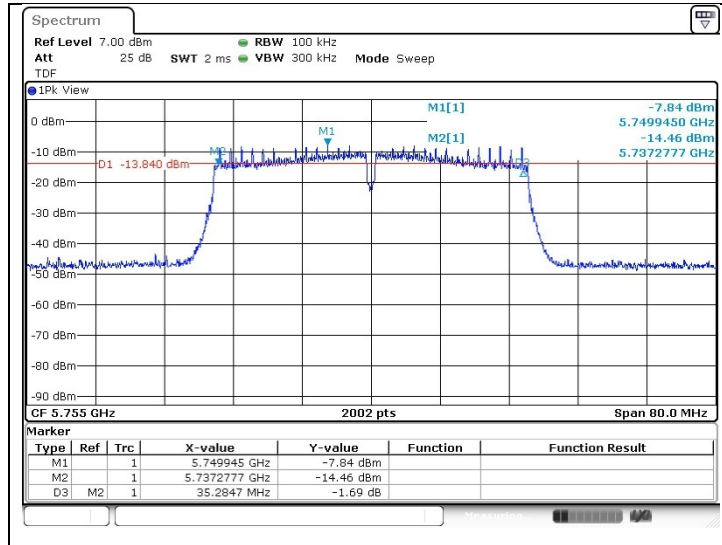


High Channel
(5 825 MHz)

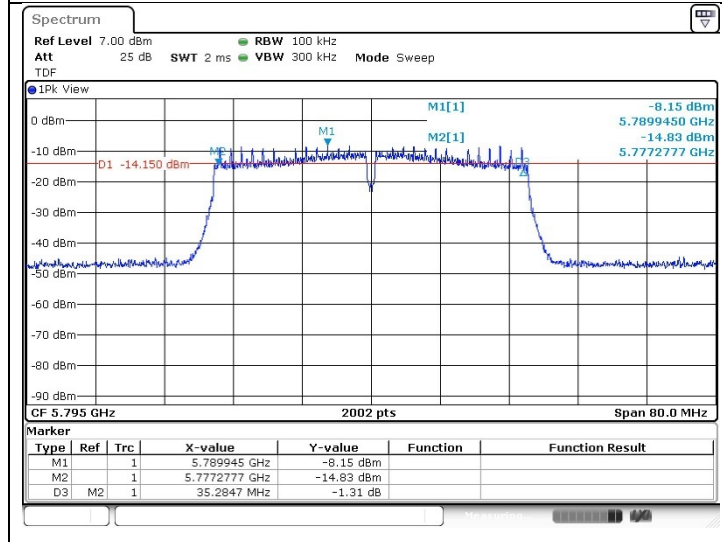


802.11ac_VHT40 (Band 3)

Low Channel
(5 755 MHz)

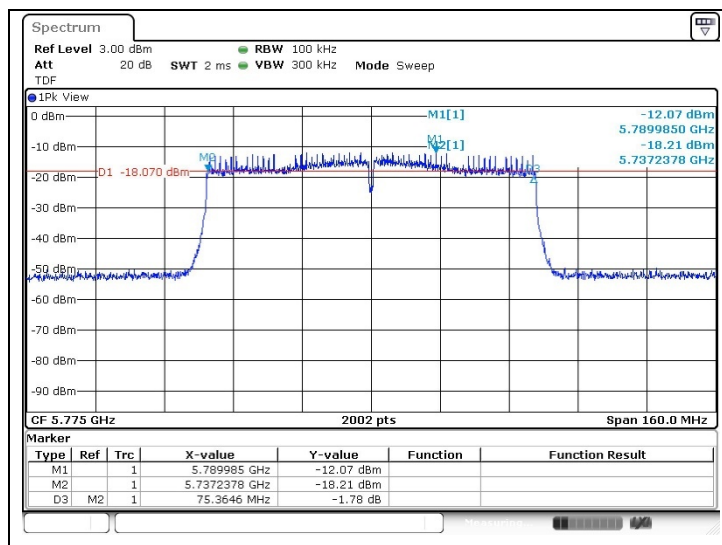


High Channel
(5 795 MHz)



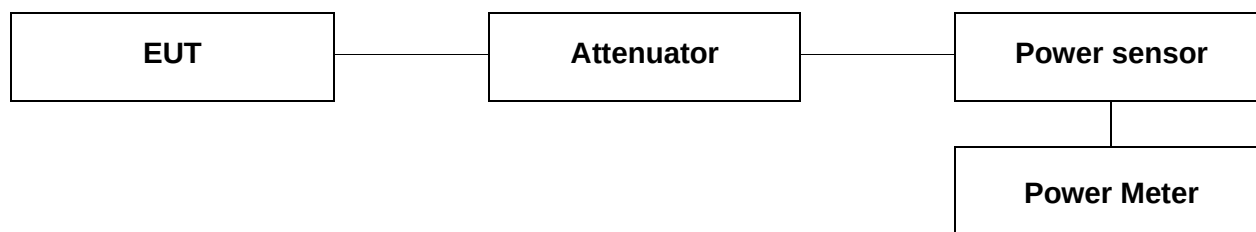
802.11ac_VHT80 (Band 3)

Middle Channel
(5 775 MHz)



5. Maximum Conducted Output Power

5.1. Test Setup



5.2. Limit

According to 15.407(a)(1)(iv)

For 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 dB i. In addition, the maximum power spectral density shall not exceed 11 dB m in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dB i 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 dB i.

According to 15.407(a)(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 dB m in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dB i 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 dB i. However, fixed point-to point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dB i 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.

5.3. Test Procedure

1. This measurement settings are specified in section II.E.3.a of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied:
 - The EUT is configured to transmit continuously or to transmit with a consistent duty cycle.
 - At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
 - The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
3. If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in section II.B.
4. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
5. Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25 %).

5.4. Test Result

Ambient temperature : (23 ± 1) °C
Relative humidity : 47 % R.H.

- SISO_Core 0

Test mode: 11a

Band	Frequency (MHz)	Data Rate (Mbps)	Average Power (dB m)	Duty Cycle Correction Factor (dB)	Average Power Result (dB m)
U-NII 1	5 180	6 Mbps	7.81	0.29	8.10
	5 220		7.46		7.75
	5 240		7.26		7.55
U-NII 3	5 745		7.36		7.65
	5 785		7.50		7.79
	5 825		7.77		8.06

Band	Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 180	23.98			3.10	23.98
	5 220					
	5 240					
U-NII 3	5 745	30			3.10	30
	5 785					
	5 825					

Remark;

1. Average Power Result (dB m) = Average Power (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT20

Band	Frequency (MHz)	Data Rate (Mbps)	Average Power (dB m)	Duty Cycle Correction Factor (dB)	Average Power Result (dB m)
U-NII 1	5 180	MCS0	5.47	0.31	5.78
	5 220		5.29		5.60
	5 240		5.09		5.40
U-NII 3	5 745		6.62		6.93
	5 785		6.67		6.98
	5 825		6.90		7.21

Band	Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 180	23.98			3.10	23.98
	5 220					
	5 240					
U-NII 3	5 745	30			3.10	30
	5 785					
	5 825					

Remark;

1. Average Power Result (dB m) = Average Power (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT40

Band	Frequency (MHz)	Data Rate (Mbps)	Average Power (dB m)	Duty Cycle Correction Factor (dB)	Average Power Result (dB m)
U-NII 1	5 190	MCS0	5.47	0.60	6.07
	5 230		5.25		5.85
U-NII 3	5 755		6.14		6.74
	5 795		6.30		6.90

Band	Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 190	23.98			3.10	23.98
	5 230					
U-NII 3	5 755	30			3.10	30
	5 795					

Remark;

1. Average Power Result (dB m) = Average Power (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT80

Band	Frequency (MHz)	Data Rate (Mbps)	Average Power (dB m)	Duty Cycle Correction Factor (dB)	Average Power Result (dB m)
U-NII 1	5 210	MCS0	4.86	1.14	6.00
U-NII 3	5 775		4.73		5.87

Band	Limit				
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)
U-NII 1	5 210	23.98			3.10
U-NII 3	5 775	30			3.10

Remark;

1. Average Power Result (dB m) = Average Power (dB m) + Duty Cycle Correction Factor (dB)

- SISO_Core 1

Test mode: 11a

Band	Frequency (MHz)	Data Rate (Mbps)	Average Power (dB m)	Duty Cycle Correction Factor (dB)	Average Power Result (dB m)
U-NII 1	5 180	6 Mbps	8.13	0.29	8.42
	5 220		8.13		8.42
	5 240		8.14		8.43
U-NII 3	5 745		8.92		9.21
	5 785		8.95		9.24
	5 825		8.97		9.26

Band	Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 180	23.98			3.10	23.98
	5 220					
	5 240					
U-NII 3	5 745	30			3.10	30
	5 785					
	5 825					

Remark;

1. Average Power Result (dB m) = Average Power (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT20

Band	Frequency (MHz)	Data Rate (Mbps)	Average Power (dB m)	Duty Cycle Correction Factor (dB)	Average Power Result (dB m)
U-NII 1	5 180	MCS0	5.35	0.31	5.66
	5 220		5.37		5.68
	5 240		5.54		5.85
U-NII 3	5 745		6.79		7.10
	5 785		6.54		6.85
	5 825		6.66		6.97

Band	Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 180	23.98			3.10	23.98
	5 220					
	5 240					
U-NII 3	5 745	30			3.10	30
	5 785					
	5 825					

Remark;

1. Average Power Result (dB m) = Average Power (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT40

Band	Frequency (MHz)	Data Rate (Mbps)	Average Power (dB m)	Duty Cycle Correction Factor (dB)	Average Power Result (dB m)
U-NII 1	5 190	MCS0	5.82	0.60	6.42
	5 230		5.92		6.52
U-NII 3	5 755		7.74		8.34
	5 795		7.65		8.25

Band	Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 190	23.98			3.10	23.98
	5 230					
U-NII 3	5 755	30			3.10	30
	5 795					

Remark;

1. Average Power Result (dB m) = Average Power (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT80

Band	Frequency (MHz)	Data Rate (Mbps)	Average Power (dB m)	Duty Cycle Correction Factor (dB)	Average Power Result (dB m)
U-NII 1	5 210	MCS0	4.78	1.16	5.94
U-NII 3	5 775		5.80		6.96

Band	Limit				
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)
U-NII 1	5 210	23.98			3.10
U-NII 3	5 775	30			3.10

Remark;

1. Average Power Result (dB m) = Average Power (dB m) + Duty Cycle Correction Factor (dB)

- MIMO

Test mode: 11ac_VHT20

Band	Frequency (MHz)	Data Rate (Mbps)	Core 0 Average Power (dB m)	Core 1 Average Power (dB m)	Core 0+Core 1 Average Power (dB m)
U-NII 1	5 180	MCS0	4.01	2.11	6.17
	5 220		3.78	2.37	6.14
	5 240		3.61	2.45	6.08
U-NII 3	5 745		4.91	4.92	7.93
	5 785		5.13	5.00	8.08
	5 825		5.38	4.65	8.04

Band	Frequency (MHz)	Data Rate (Mbps)	Core 0+Core 1 Average Power (dB m)	Duty Cycle Correction Factor (dB)	Core 0 + Core 1 Average Power Result (dB m)
U-NII 1	5 180	MCS0	6.17	0.58	6.75
	5 220		6.14		6.72
	5 240		6.08		6.66
U-NII 3	5 745		7.93		8.51
	5 785		8.08		8.66
	5 825		8.04		8.62

Band	Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 180	23.98			6.11	23.87
	5 220					
	5 240					
U-NII 3	5 745	30			6.11	29.89
	5 785					
	5 825					

Remark;

- According to KDB 662911, Average power of each port and antenna gain was combined by using below calculation.
 - Average power: $10 \log \{10^{(\text{Core 0 power} / 10)} + 10^{(\text{Core 1 power} / 10)}\}$
 - Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dB i
 (i) If transmit signals are correlated, then
 Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}]$ dB i [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- Average Power Result (dB m) = Average Power (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT40

Band	Frequency (MHz)	Data Rate (Mbps)	Core 0 Average Power (dB m)	Core 1 Average Power (dB m)	Core 0+Core 1 Average Power (dB m)
U-NII 1	5 190	MCS0	3.84	2.19	6.10
	5 230		3.58	2.40	6.04
U-NII 3	5 755		4.87	5.08	7.99
	5 795		5.05	5.02	8.05

Band	Frequency (MHz)	Data Rate (Mbps)	Core 0+Core 1 Average Power (dB m)	Duty Cycle Correction Factor (dB)	Core 0 + Core 1 Average Power Result (dB m)
U-NII 1	5 190	MCS0	6.10	1.11	7.21
	5 230		6.04		7.15
U-NII 3	5 755		7.99		9.10
	5 795		8.05		9.16

Band	Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 190	23.98			6.11	23.87
	5 230					
U-NII 3	5 755	30			6.11	29.89
	5 795					

Remark;

- According to KDB 662911, Average power of each port and antenna gain was combined by using below calculation.

- Average power: $10 \log \{10^{(\text{Core 0 power} / 10)} + 10^{(\text{Core 1 power} / 10)}\}$

- Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dB i

(i) If transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}]$ dB i [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

- Average Power Result (dB m) = Average Power (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT80

Band	Frequency (MHz)	Data Rate (Mbps)	Core 0 Average Power (dB m)	Core 1 Average Power (dB m)	Core 0+Core 1 Average Power (dB m)
U-NII 1	5 210	MCS0	3.05	2.24	5.67
U-NII 3	5 775		3.11	3.57	6.36

Band	Frequency (MHz)	Data Rate (Mbps)	Core 0+Core 1 Average Power (dB m)	Duty Cycle Correction Factor (dB)	Core 0 + Core 1 Average Power Result (dB m)
U-NII 1	5 210	MCS0	5.67	1.85	7.52
U-NII 3	5 775		6.36		8.21

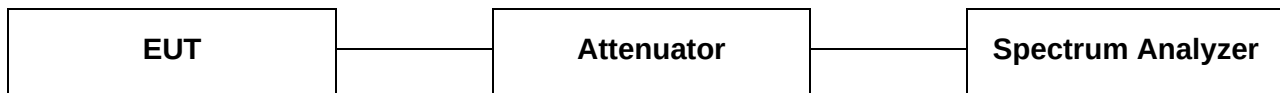
Band	Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 210	23.98			6.11	23.87
U-NII 3	5 775	30			6.11	29.89

Remark;

- According to KDB 662911, Average power of each port and antenna gain was combined by using below calculation.
 - Average power: $10 \log \{10^{(\text{Core 0 power} / 10)} + 10^{(\text{Core 1 power} / 10)}\}$
 - Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, \dots, G_N$ dB i
 - If transmit signals are correlated, then
 Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}]$ dB i [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- Average Power Result (dB m) = Average Power (dB m) + Duty Cycle Correction Factor (dB)

6. Power Spectral Density

6.1. Test Setup



6.2. Limit

According to 15.407(a)(1)(iv)

For 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.

According to 15.407(a)(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 colocated 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.

6.3. Test Procedure

1. This measurement settings are specified in section II.F of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
3. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
4. Make the following adjustments to the peak value of the spectrum, if applicable:
 - a) **If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.**
 - b) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
5. The result is the Maximum PSD over 1 MHz reference bandwidth.
6. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth ($< 1 \text{ MHz}$, or $< 500 \text{ kHz}$) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:
 - a) Set $\text{RBW} \geq 1/T$, where T is defined in section II.B.1.a).
 - b) Set $\text{VBW} \geq 3 \text{ RBW}$.
 - c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log(500 \text{ kHz}/\text{RBW})$ to the measured result, whereas $\text{RBW} (< 500 \text{ kHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
 - d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log(1 \text{ MHz}/\text{RBW})$ to the measured result, whereas $\text{RBW} (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
 - e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.
7. In case of band crossing channels 138, 142 and 144, the measurement is complied with section III.A of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

6.4. Test Result

Ambient temperature : (23 ± 1) °C
Relative humidity : 47 % R.H.

- SISO_Core 0

Test mode: 11a

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSP (dB m)	Duty Cycle Correction Factor (dB)	Final PPSP (dB m)	Limit (dB m/1 MHz)
U-NII 1	5 180	36	6	-2.98	0.29	-2.69	11
	5 220	44		-3.80		-3.51	
	5 240	48		-3.63		-3.34	
Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSP (dB m)	Duty Cycle Correction Factor (dB)	Final PPSP (dB m)	Limit (dB m/500 kHz)
U-NII 3	5 745	149	6	-6.00	0.29	-5.71	30
	5 785	157		-6.26		-5.97	
	5 825	165		-5.86		-5.57	

Remark;

- Final PPSP (dB m) = Measured PPSP (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT20

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSP (dB m)	Duty Cycle Correction Factor (dB)	Final PPSP (dB m)	Limit (dB m/1 MHz)
U-NII 1	5 180	36	MCS0	-6.03	0.31	-5.72	11
	5 220	44		-6.39		-6.08	
	5 240	48		-6.55		-6.24	
Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSP (dB m)	Duty Cycle Correction Factor (dB)	Final PPSP (dB m)	Limit (dB m/500 kHz)
U-NII 3	5 745	149	MCS0	-7.47	0.31	-7.16	30
	5 785	157		-7.31		-7.00	
	5 825	165		-7.14		-6.83	

Remark;

- Final PPSP (dB m) = Measured PPSP (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT40

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Cycle Correction Factor (dB)	Final PPSD (dB m)	Limit (dB m/1 MHz)
U-NII 1	5 190	38	MCS0	-8.41	0.60	-7.81	11
	5 230	46		-8.90		-8.30	
Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Cycle Correction Factor (dB)	Final PPSD (dB m)	Limit (dB m/500 kHz)
U-NII 3	5 755	151	MCS0	-11.03	0.60	-10.43	30
	5 795	159		-10.60		-10.00	

Remark;

- Final PPSD (dB m) = Measured PPSD (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT80

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Cycle Correction Factor (dB)	Final PPSD (dB m)	Limit (dB m/1 MHz)
U-NII 1	5 210	42	MCS0	-12.18	1.14	-11.04	11
Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Cycle Correction Factor (dB)	Final PPSD (dB m)	Limit (dB m/500 kHz)
U-NII 3	5 775	155	MCS0	-14.89	1.14	-13.75	30

Remark;

- Final PPSD (dB m) = Measured PPSD (dB m) + Duty Cycle Correction Factor (dB)

- SISO_Core 1

Test mode: 11a

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Cycle Correction Factor (dB)	Final PPSD (dB m)	Limit (dB m/1 MHz)
U-NII 1	5 180	36	6	-2.43	0.29	-2.14	11
	5 220	44		-2.67		-2.38	
	5 240	48		-2.89		-2.60	
Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Cycle Correction Factor (dB)	Final PPSD (dB m)	Limit (dB m/500 kHz)
U-NII 3	5 745	149	6	-5.33	0.29	-5.04	30
	5 785	157		-4.86		-4.57	
	5 825	165		-4.57		-4.28	

Remark;

- Final PPSD (dB m) = Measured PPSD (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT20

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Cycle Correction Factor (dB)	Final PPSD (dB m)	Limit (dB m/1 MHz)
U-NII 1	5 180	36	MCS0	-5.50	0.31	-5.19	11
	5 220	44		-5.22		-4.91	
	5 240	48		-5.72		-5.41	
Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Cycle Correction Factor (dB)	Final PPSD (dB m)	Limit (dB m/500 kHz)
U-NII 3	5 745	149	MCS0	-7.14	0.31	-6.83	30
	5 785	157		-7.65		-7.34	
	5 825	165		-7.31		-7.00	

Remark;

- Final PPSD (dB m) = Measured PPSD (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT40

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Cycle Correction Factor (dB)	Final PPSD (dB m)	Limit (dB m/1 MHz)
U-NII 1	5 190	38	MCS0	-8.06	0.60	-7.46	11
	5 230	46		-8.18		-7.58	
Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Cycle Correction Factor (dB)	Final PPSD (dB m)	Limit (dB m/500 kHz)
U-NII 3	5 755	151	MCS0	-8.69	0.60	-8.09	30
	5 795	159		-9.09		-8.49	

Remark;

- Final PPSD (dB m) = Measured PPSD (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT80

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Cycle Correction Factor (dB)	Final PPSD (dB m)	Limit (dB m/1 MHz)
U-NII 1	5 210	42	MCS0	-11.69	1.16	-10.53	11
Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Measured PPSD (dB m)	Duty Cycle Correction Factor (dB)	Final PPSD (dB m)	Limit (dB m/500 kHz)
U-NII 3	5 775	155	MCS0	-13.40	1.16	-12.24	30

Remark;

- Final PPSD (dB m) = Measured PPSD (dB m) + Duty Cycle Correction Factor (dB)

- MIMO

Test mode: 11ac_VHT20

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Core 0 Measured PPSD (dB m)	Core 1 Measured PPSD (dB m)	Core 0+Core 1 PPSD (dB m)
U-NII 1	5 180	36	MCS0	-7.21	-9.27	-5.11
	5 220	44		-7.47	-8.74	-5.05
	5 240	48		-7.32	-8.63	-4.92
U-NII 3	5 745	149		-9.19	-9.30	-6.23
	5 785	157		-8.85	-9.03	-5.93
	5 825	165		-8.61	-8.82	-5.70

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Core 0+Core 1 PPSD (dB m)	Duty Cycle Correction Factor (dB)	Core 0+Core 1 Final PPSD (dB m)	Limit (dB m/1 MHz)
U-NII 1	5 180	36	MCS0	-5.11	0.58	-4.53	10.89
	5 220	44		-5.05		-4.47	
	5 240	48		-4.92		-4.34	
Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Core 0+Core 1 PPSD (dB m)	Duty Cycle Correction Factor (dB)	Core 0+Core 1 Final PPSD (dB m)	Limit (dB m/500 kHz)
U-NII 3	5 745	149	MCS0	-6.23	0.58	-5.65	29.89
	5 785	157		-5.93		-5.35	
	5 825	165		-5.70		-5.12	

Remark;

1. According to KDB 662911 D01 v02r01, power spectral density of each port (Core 0+Core 1) was combined by using below calculation.
2. PPSD: $10 \log \{10^{(\text{Core 0 PSD} / 10)} + 10^{(\text{Core 1 PSD} / 10)}\}$
3. Final PPSD (dB m) = PPSD (dB m) + Duty Correction Correction Factor (dB)

Test mode: 11ac_VHT40

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Core 0 Measured PPSD (dB m)	Core 1 Measured PPSD (dB m)	Core 0+Core 1 PPSD (dB m)
U-NII 1	5 190	38	MCS0	-9.80	-11.85	-7.69
	5 230	46		-10.34	-11.52	-7.88
U-NII 3	5 755	151		-12.13	-12.08	-9.09
	5 795	159		-12.26	-11.83	-9.03

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Core 0+Core 1 PPSD (dB m)	Duty Cycle Correction Factor (dB)	Core 0+Core 1 Final PPSD (dB m)	Limit (dB m/1 MHz)
U-NII 1	5 190	38	MCS0	-7.69	1.11	-6.58	10.89
	5 230	46		-7.88		-6.77	
Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Core 0+Core 1 PPSD (dB m)	Duty Cycle Correction Factor (dB)	Core 0+Core 1 Final PPSD (dB m)	Limit (dB m/1 MHz)
U-NII 3	5 755	151	MCS0	-9.09	1.11	-7.98	29.89
	5 795	159		-9.03		-7.92	

Remark;

1. According to KDB 662911 D01 v02r01, power spectral density of each port (Core 0+Core 1) was combined by using below calculation.
2. PPSSD: $10 \log \{10^{(\text{Core 0 PSD} / 10)} + 10^{(\text{Core 1 PSD} / 10)}\}$
3. Final PPSSD (dB m) = PPSSD (dB m) + Duty Cycle Correction Factor (dB)

Test mode: 11ac_VHT80

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Core 0 Measured PPSD (dB m)	Core 1 Measured PPSD (dB m)	Core 0+Core 1 PPSD (dB m)
U-NII 1	5 210	42	MCS0	-13.46	-14.54	-10.96
U-NII 3	5 775	155		-16.30	-16.28	-13.28

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Core 0+Core 1 PPSD (dB m)	Duty Cycle Correction Factor (dB)	Core 0+Core 1 Final PPSD (dB m)	Limit (dB m/1 MHz)
U-NII 1	5 210	42	MCS0	-10.96	1.85	-9.11	10.89
Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	Core 0+Core 1 PPSD (dB m)	Duty Cycle Correction Factor (dB)	Core 0+Core 1 Final PPSD (dB m)	Limit (dB m/500 kHz)
U-NII 3	5 775	155	MCS0	-13.28	1.85	-11.43	29.89

Remark;

1. According to KDB 662911 D01 v02r01, power spectral density of each port (Core 0+Core 1) was combined by using below calculation.
2. PPSSD: $10 \log \{10^{(\text{Core 0 PSD} / 10)} + 10^{(\text{Core 1 PSD} / 10)}\}$
3. Final PPSSD (dB m) = PPSSD (dB m) + Duty Correction Correction Factor (dB)

- Test plots

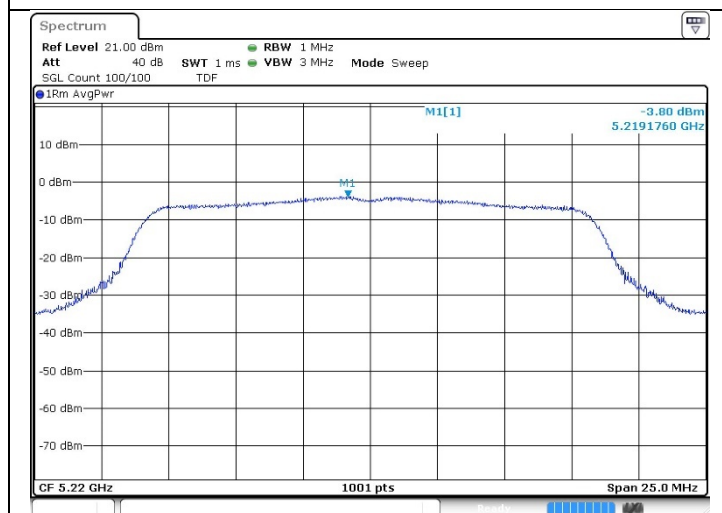
- SISO_Core 0

802.11a (Band 1)

Low Channel
(5 180 MHz)



Middle Channel
(5 220 MHz)

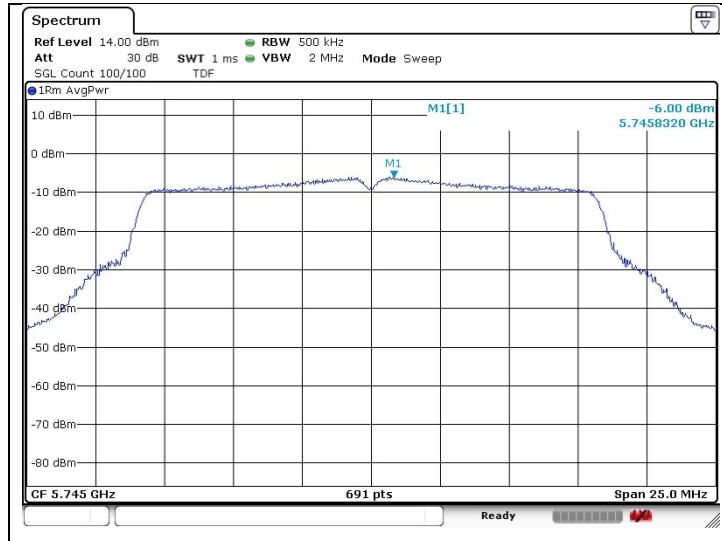


High Channel
(5 240 MHz)

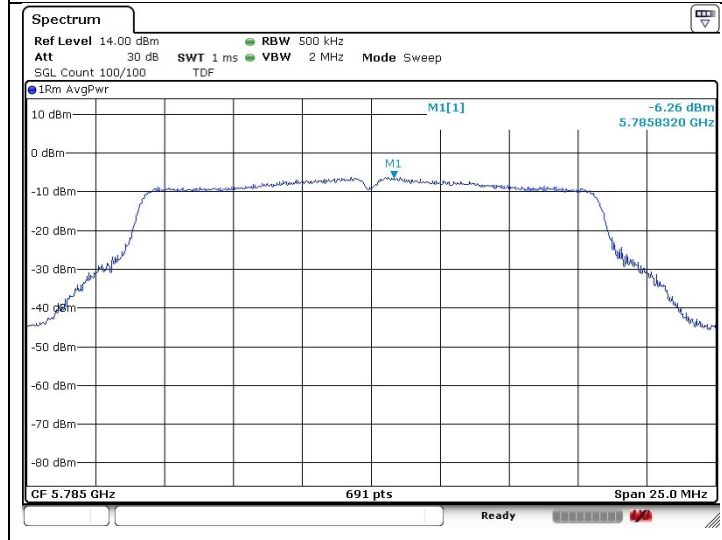


802.11a (Band 3)

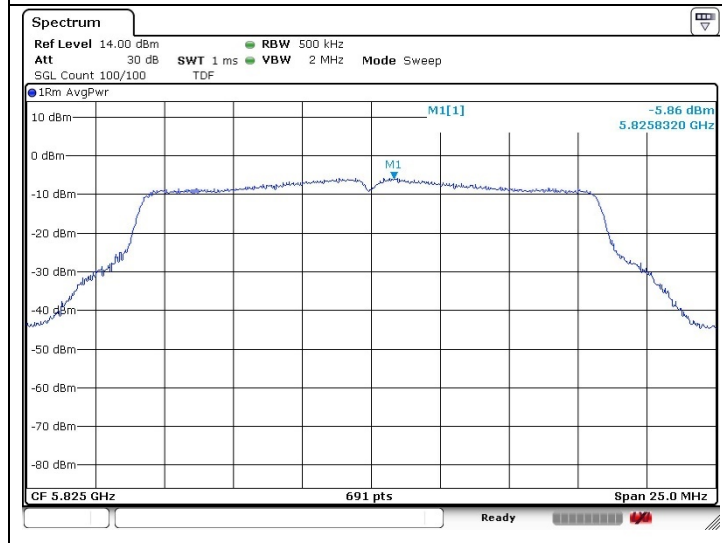
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

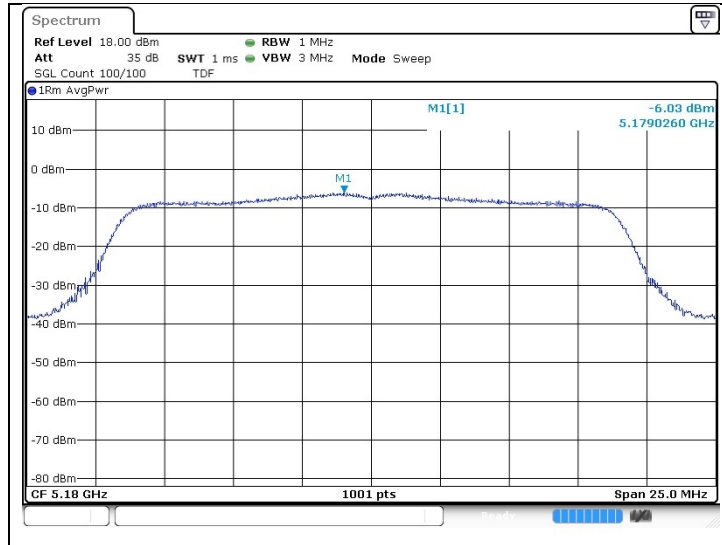


High Channel
(5 825 MHz)

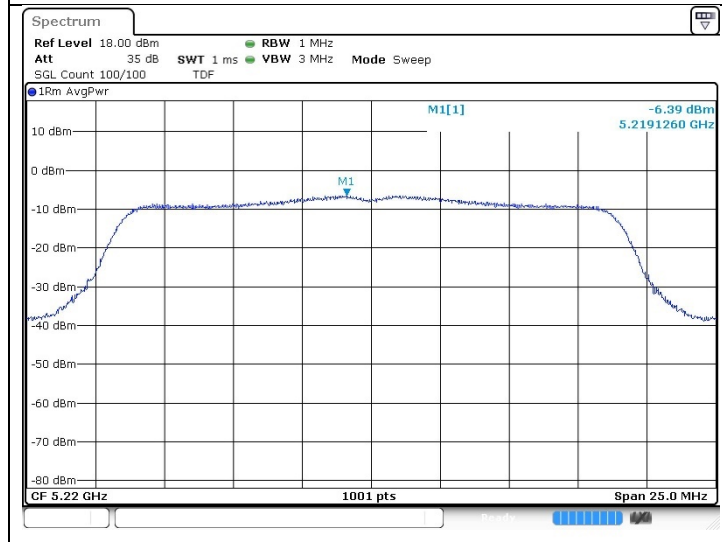


802.11ac_VHT20 (Band 1)

Low Channel
(5 180 MHz)



Middle Channel
(5 220 MHz)



High Channel
(5 240 MHz)

