

Test mode: 11n_HT40

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	26 dB Bandwidth (MHz)	99 % Bandwidth (MHz)
U-NII 1	5 190	38	MCS4	40.289	-
	5 230	46		40.058	36.585
U-NII 2A	5 270	54		40.174	-
	5 310	62		39.711	-
U-NII 2C	5 510	102		40.174	-
	5 590	118		40.405	-
	5 670	134		40.289	-
U-NII 3	5 755	151		40.174	-
	5 795	159		53.951	-

Test mode: 11ac_VHT80

Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	26 dB Bandwidth (MHz)	99 % Bandwidth (MHz)
U-NII 1	5 210	42	MCS0	82.663	75.948
U-NII 2A	5 290	58		82.663	-
U-NII 2C	5 530	106		82.894	-
	5 610	122		82.894	-
U-NII 3	5 775	155		82.320	-

Band-crossing channel

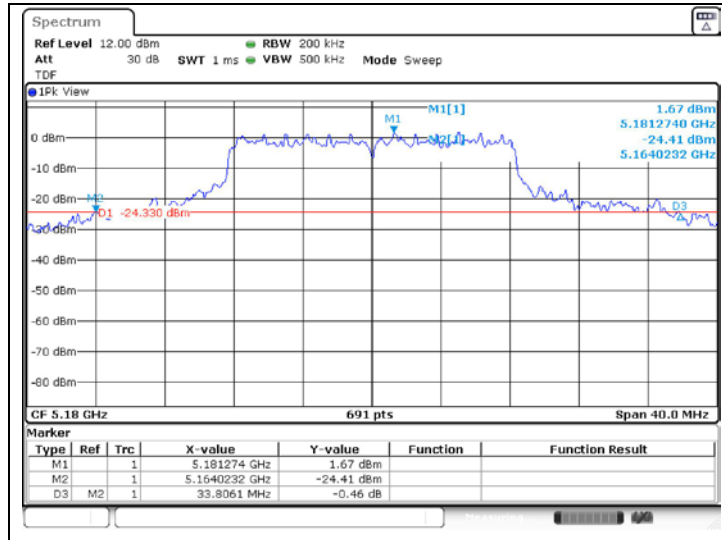
Band	Frequency (MHz)	Ch.	Data Rate (Mbps)	26 dB Bandwidth (MHz)
11a	5 720	144	54	17.947
11n_HT20	5 720	144	MCS6	18.951
11n_HT40	5 710	142	MCS4	35.260
11ac_VHT80	5 690	138	MCS0	76.679

- Test plots

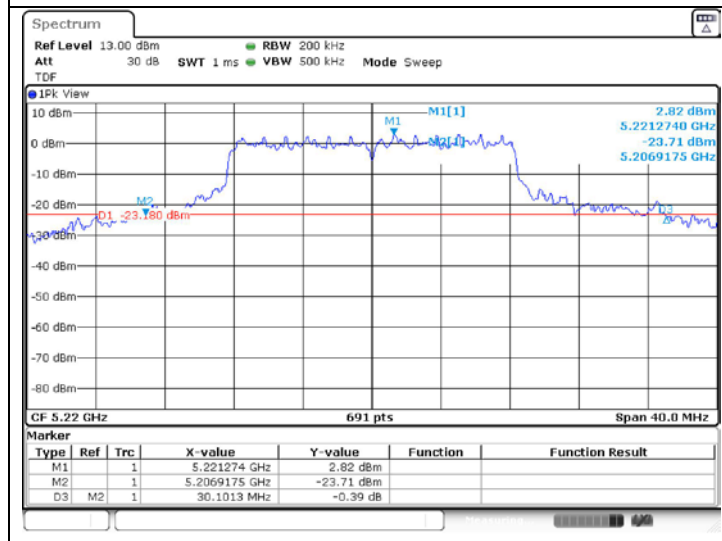
26 dB Bandwidth

802.11a (Band 1)

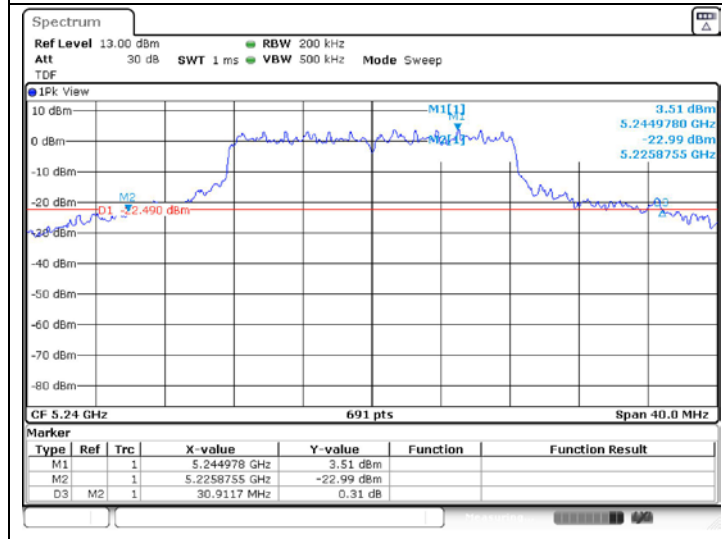
Low Channel
(5 180 MHz)



Middle Channel
(5 220 MHz)

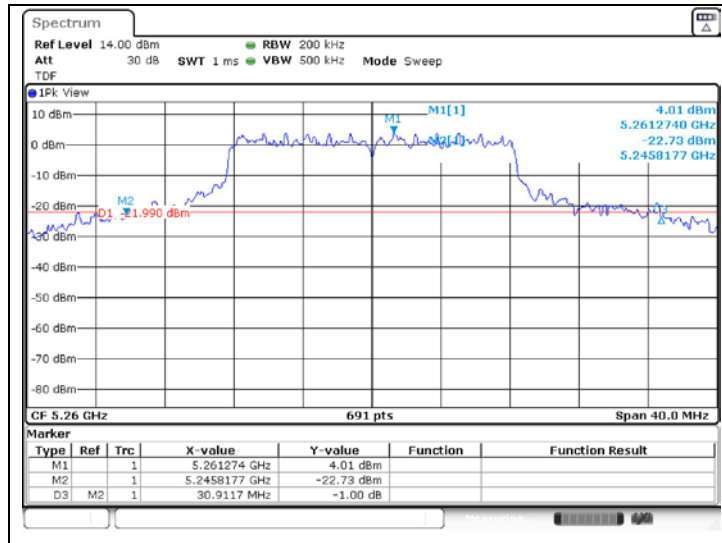


High Channel
(5 240 MHz)

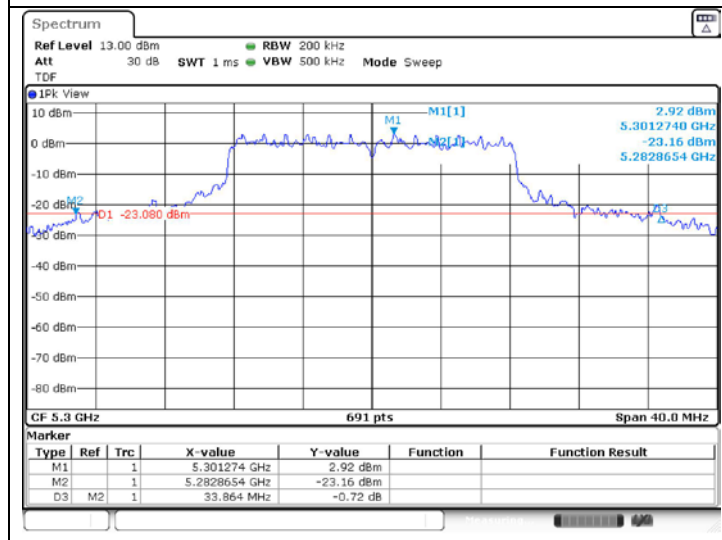


802.11a (Band 2A)

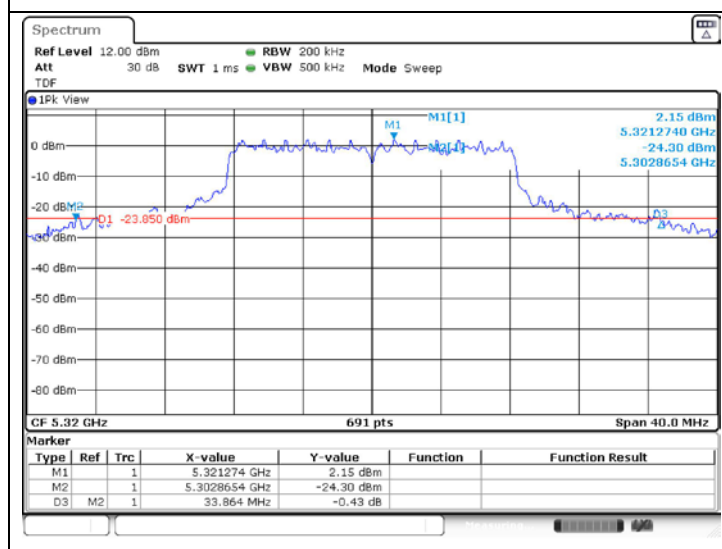
Low Channel
(5 260 MHz)



Middle Channel
(5 300 MHz)

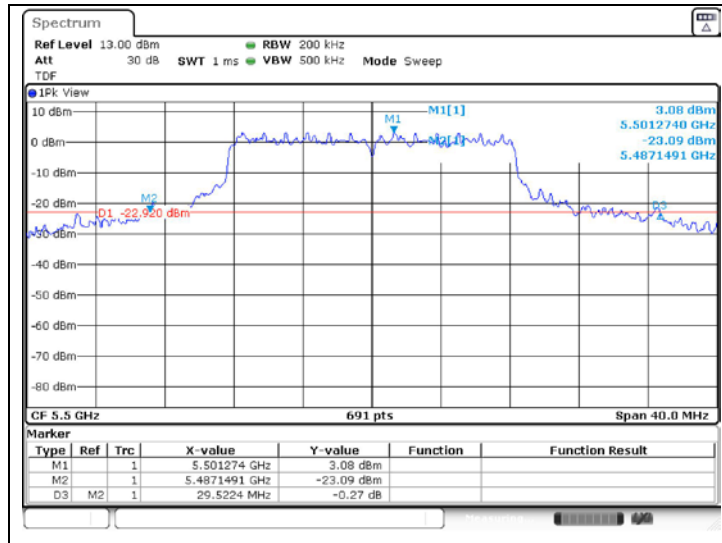


High Channel
(5 320 MHz)

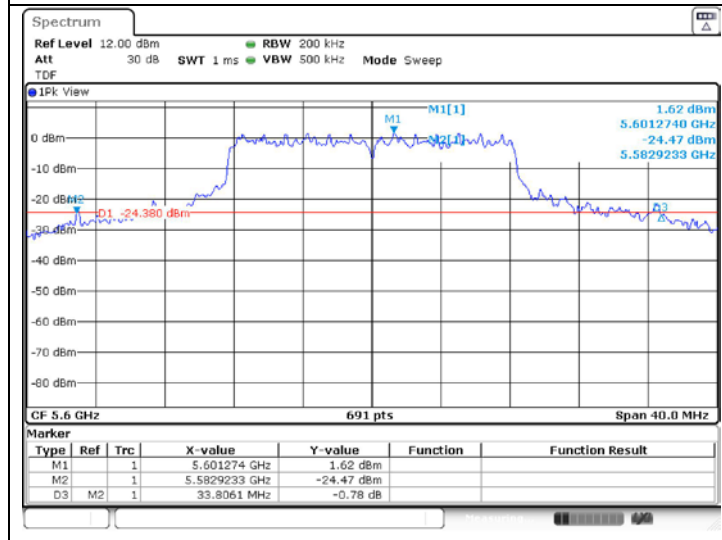


802.11a (Band 2C)

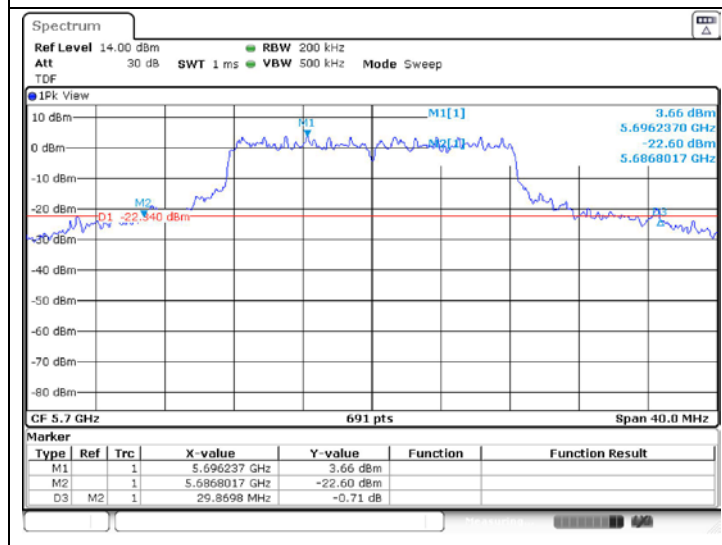
Low Channel
(5 500 MHz)



Middle Channel
(5 600 MHz)

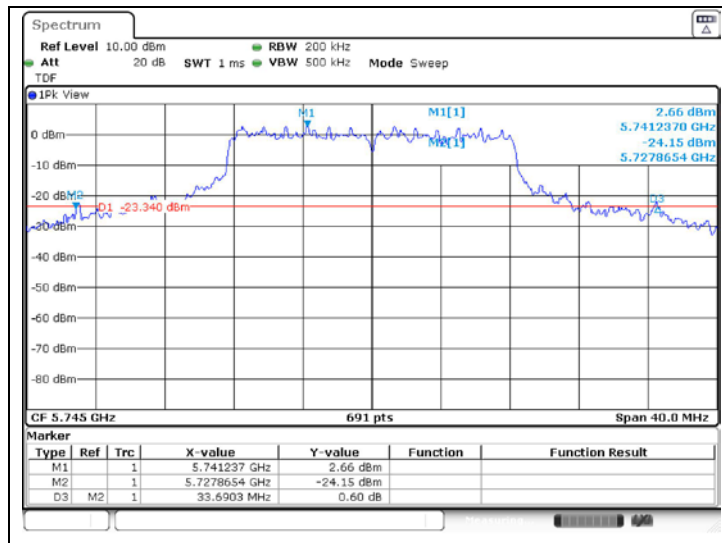


High Channel
(5 700 MHz)

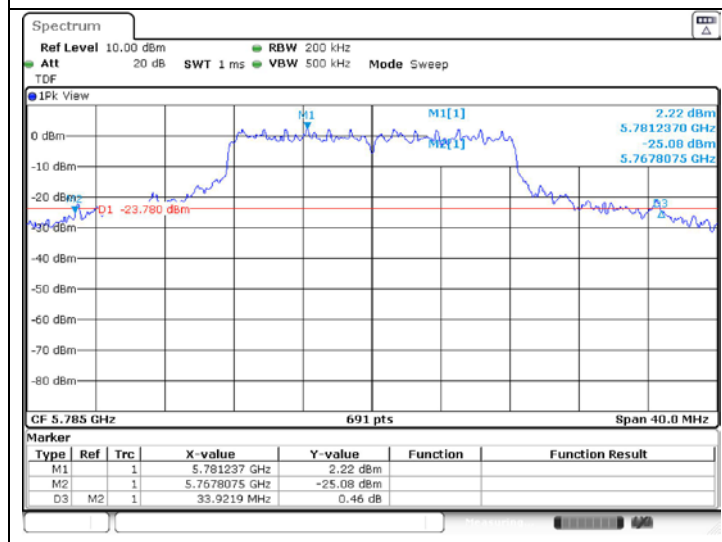


802.11a (Band 3)

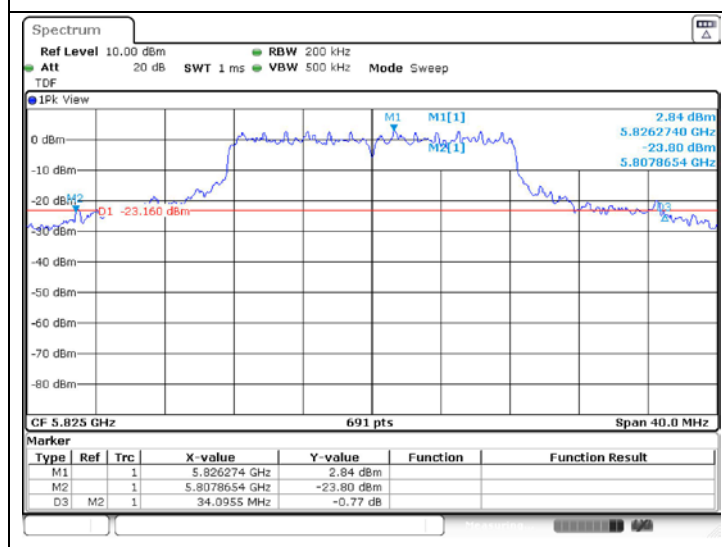
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

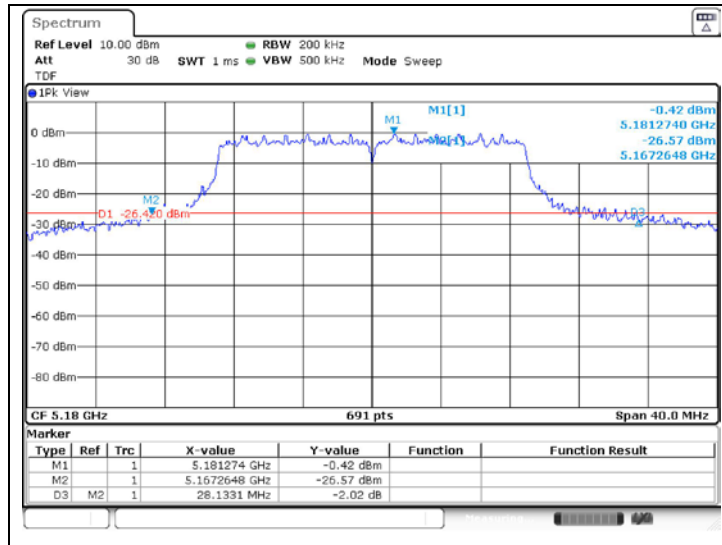


High Channel
(5 825 MHz)

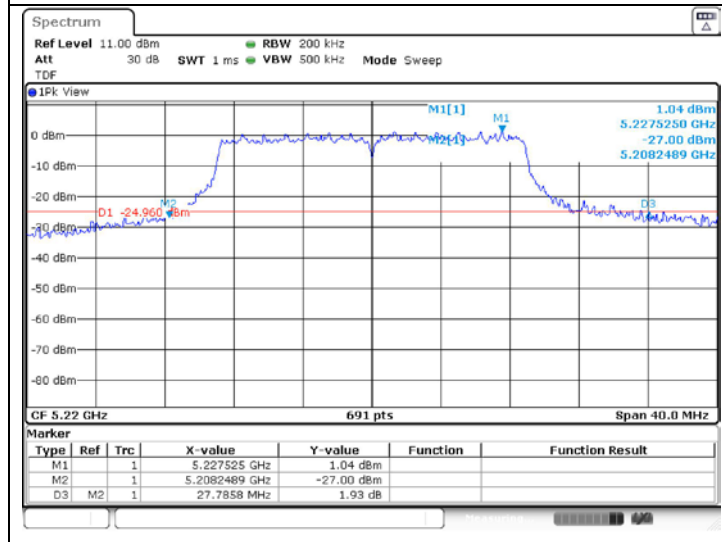


802.11n_HT20 (Band 1)

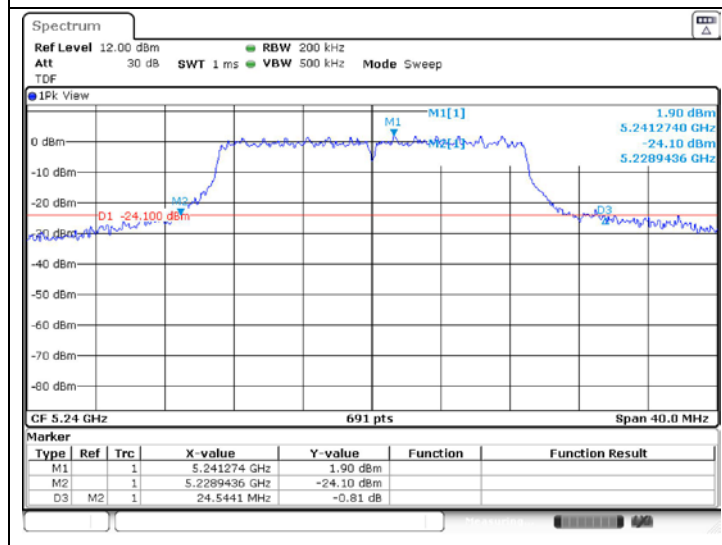
Low Channel
(5 180 MHz)



Middle Channel
(5 220 MHz)

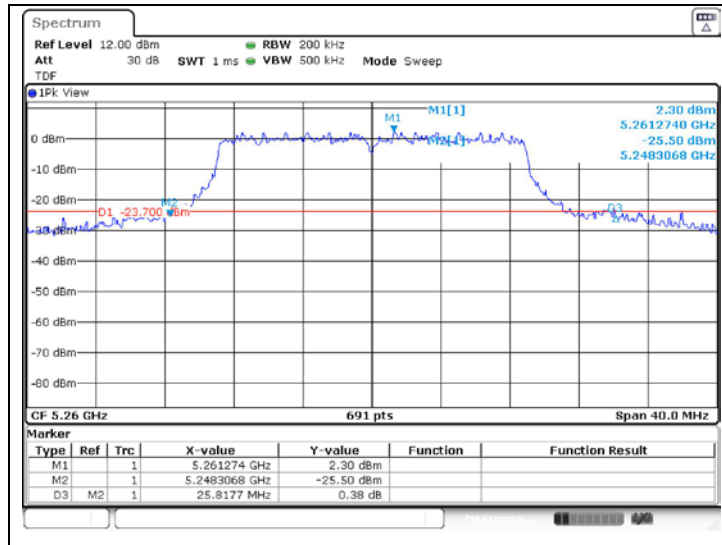


High Channel
(5 240 MHz)

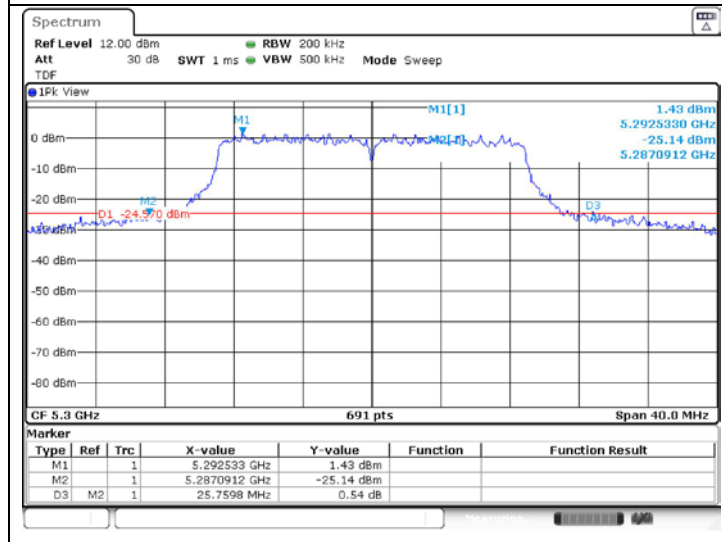


802.11n_HT20 (Band 2A)

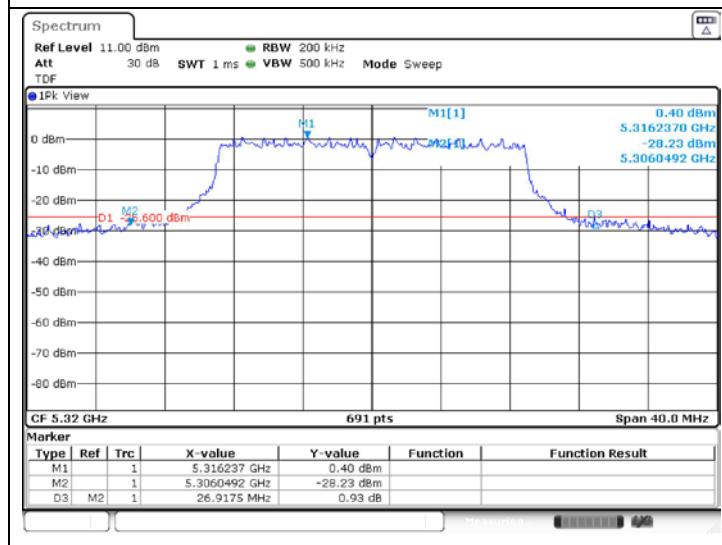
Low Channel
(5 260 MHz)



Middle Channel
(5 300 MHz)

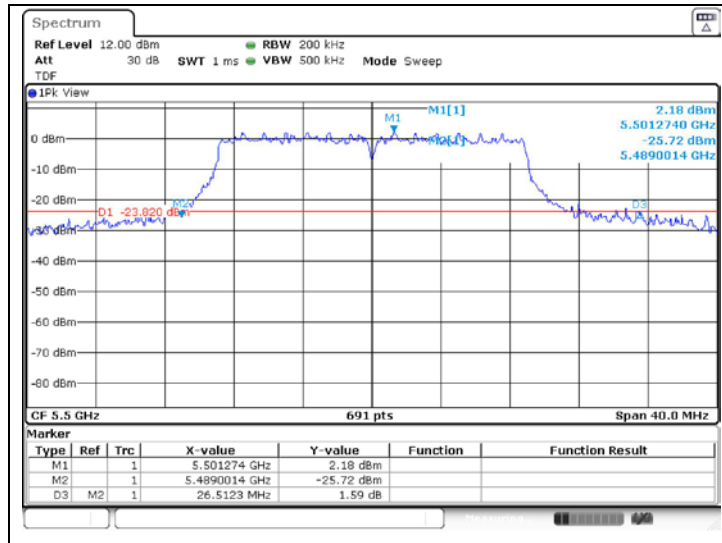


High Channel
(5 320 MHz)

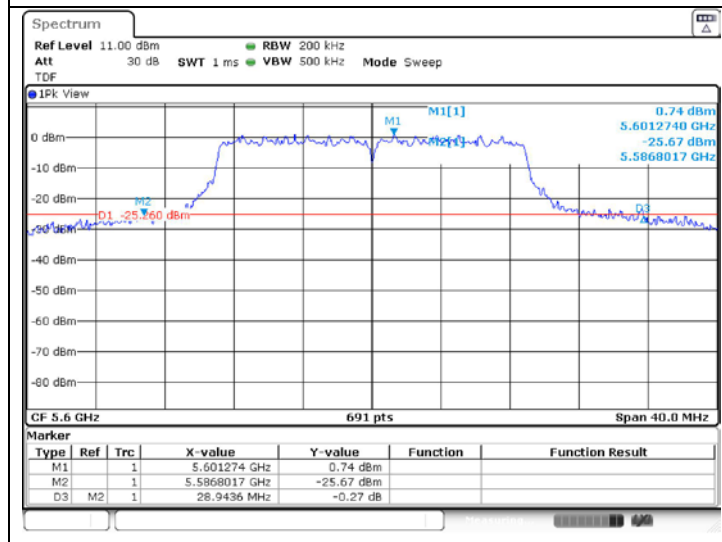


802.11n_HT20 (Band 2C)

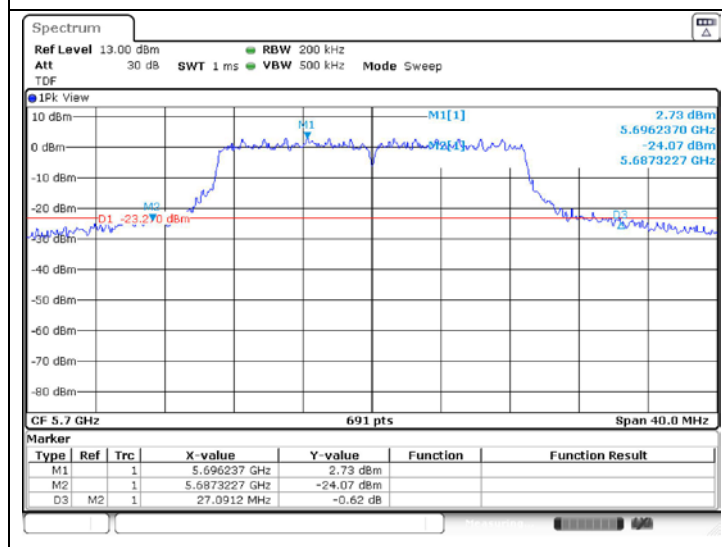
Low Channel
(5 500 MHz)



Middle Channel
(5 600 MHz)

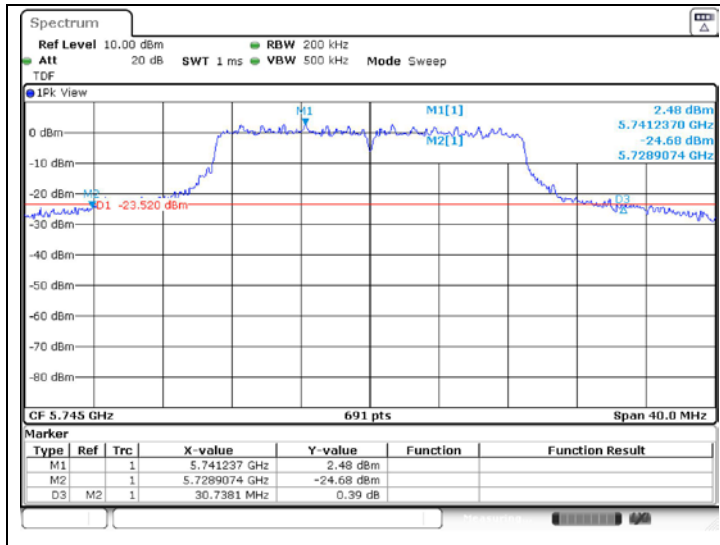


High Channel
(5 700 MHz)

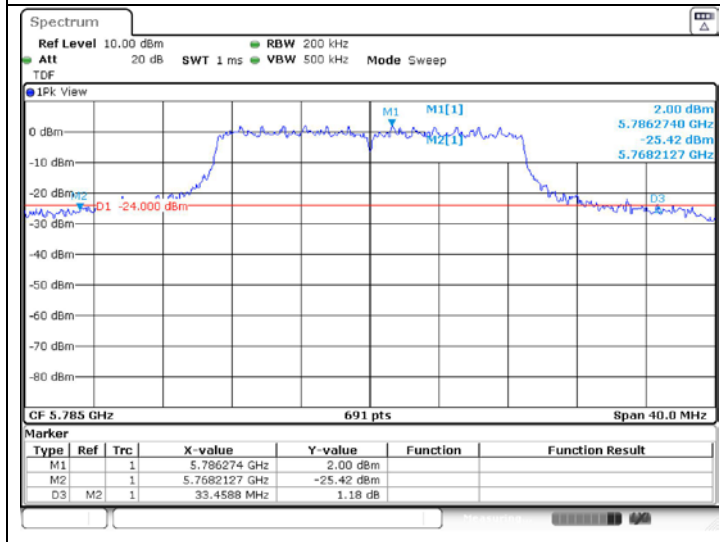


802.11n_HT20 (Band 3)

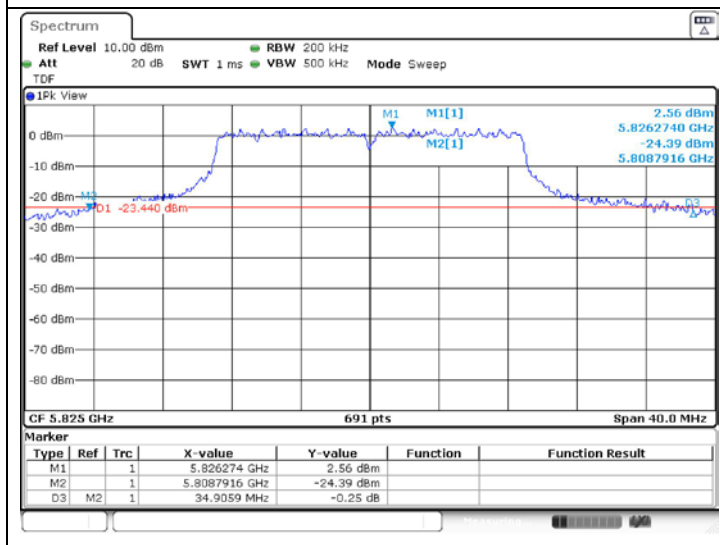
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

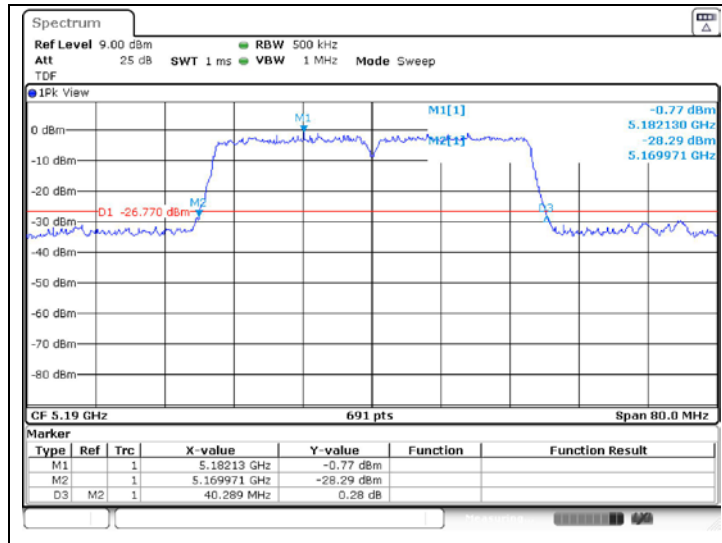


High Channel
(5 825 MHz)

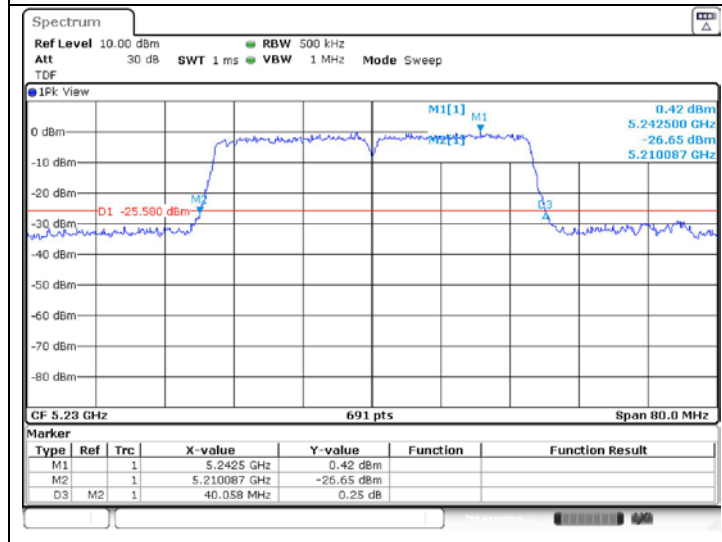


802.11n_HT40 (Band 1)

Low Channel
(5 190 MHz)

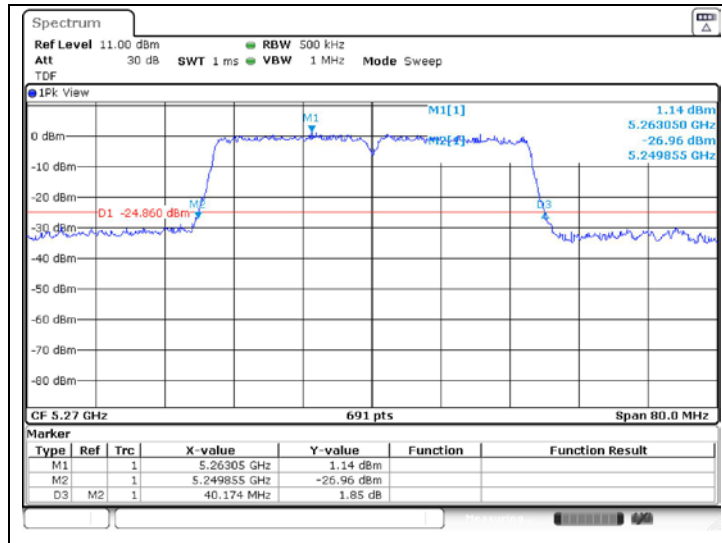


High Channel
(5 230 MHz)

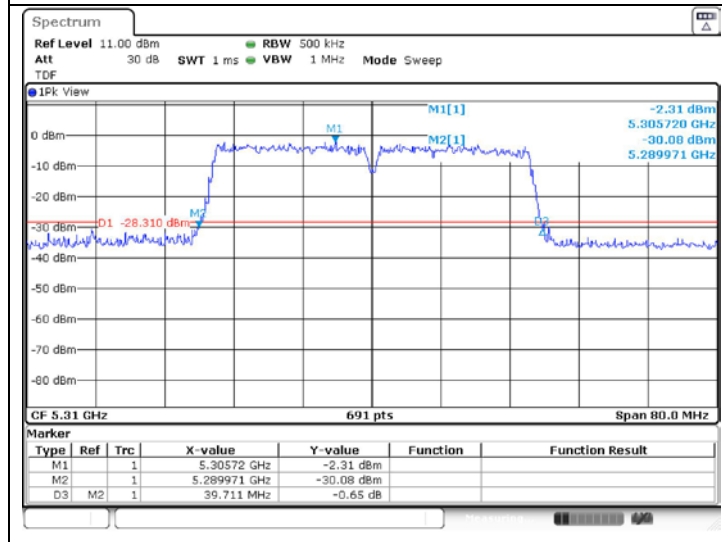


802.11n_HT40 (Band 2A)

Low Channel
(5 270 MHz)

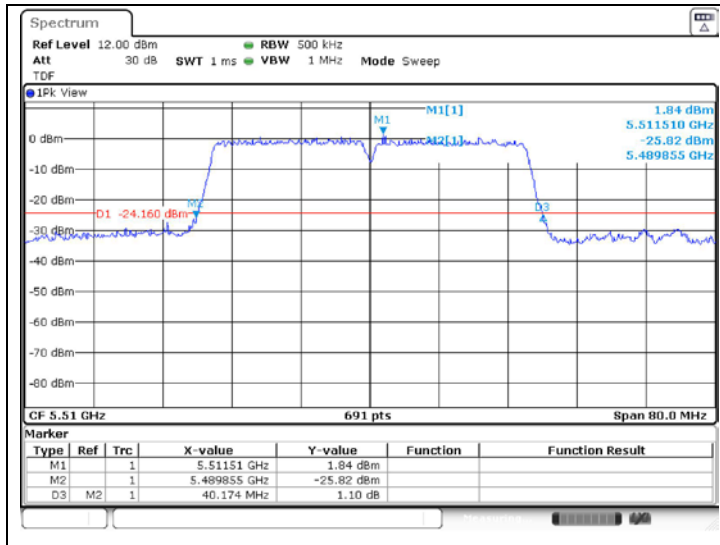


High Channel
(5 310 MHz)

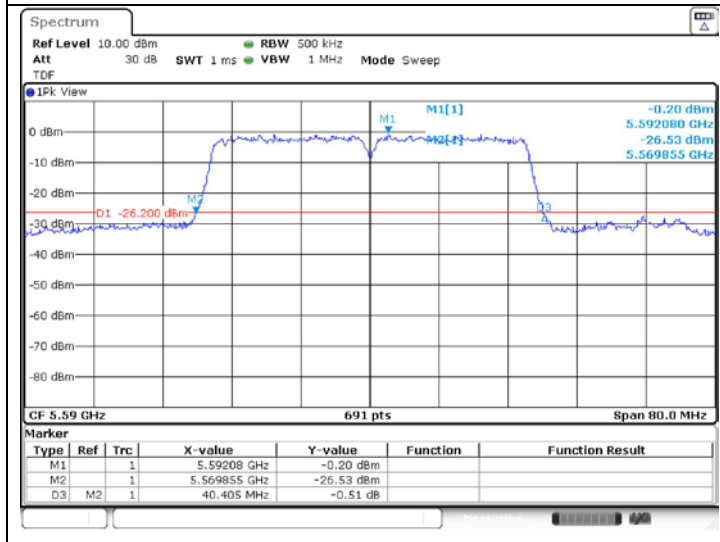


802.11n_HT40 (Band 2C)

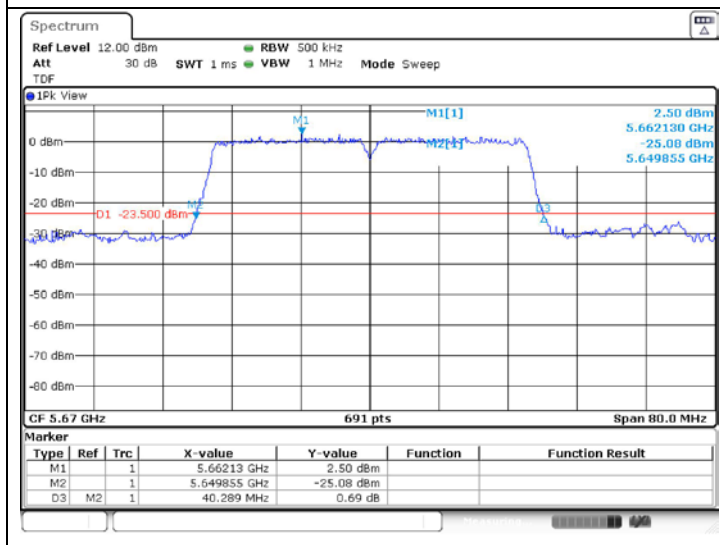
Low Channel
(5 510 MHz)



Middle Channel
(5 590 MHz)

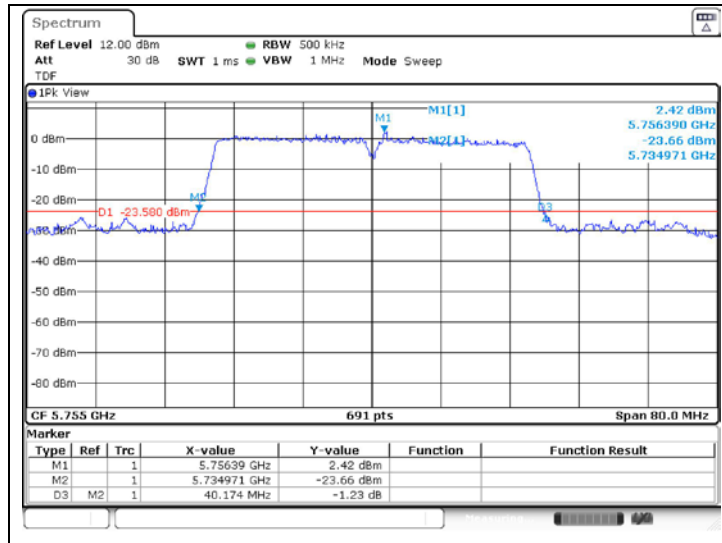


High Channel
(5 670 MHz)

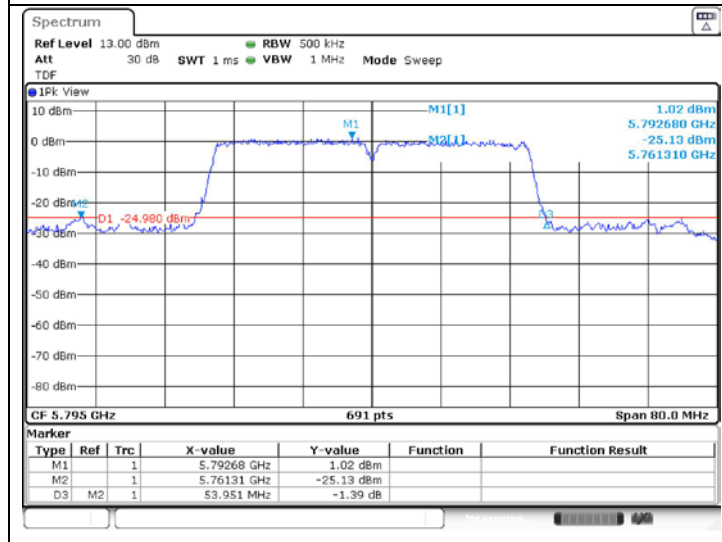


802.11n_HT40 (Band 3)

Low Channel
(5 755 MHz)

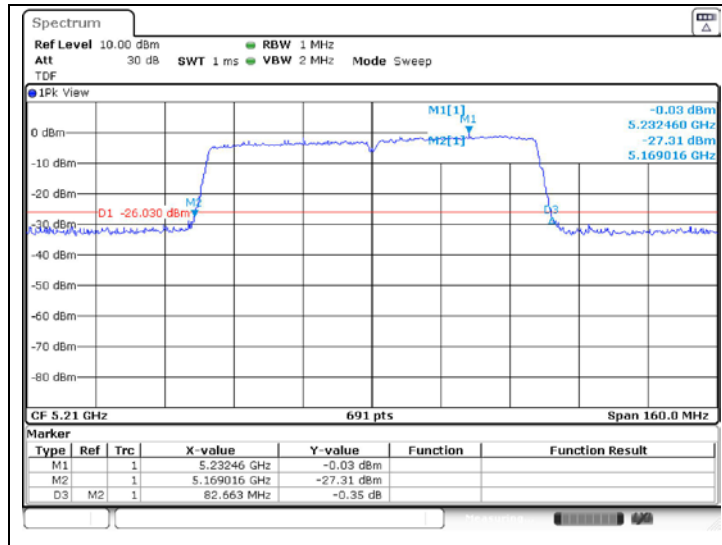


High Channel
(5 795 MHz)



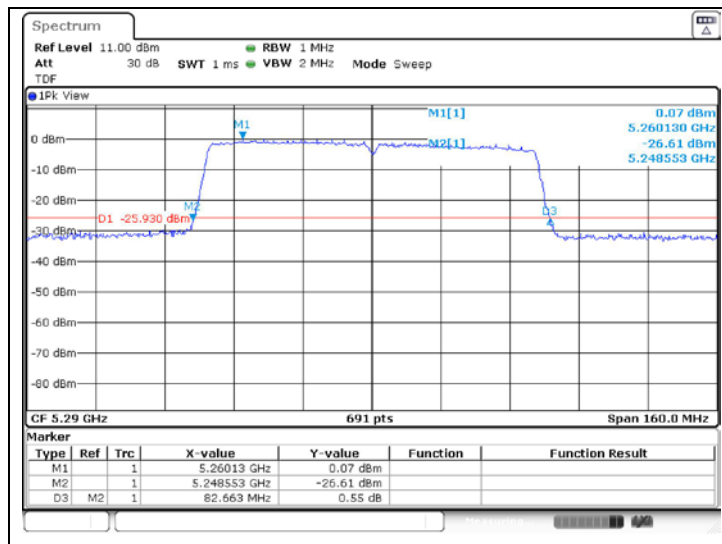
802.11ac_VHT80 (Band 1)

Middle Channel
(5 210 MHz)



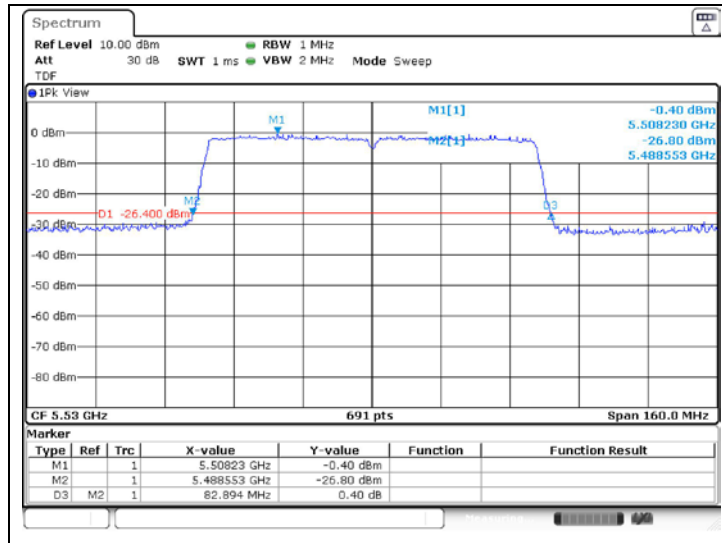
802.11ac_VHT80 (Band 2A)

Middle Channel
(5 290 MHz)

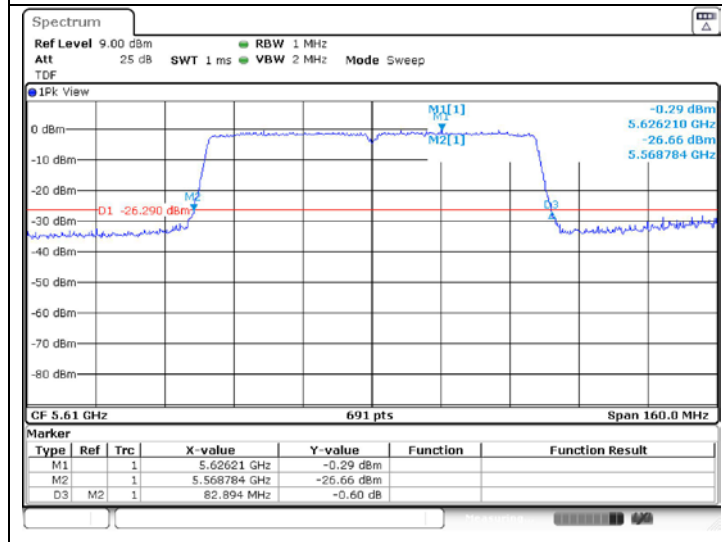


802.11ac_VHT80 (Band 2C)

Low Channel
(5 530 MHz)

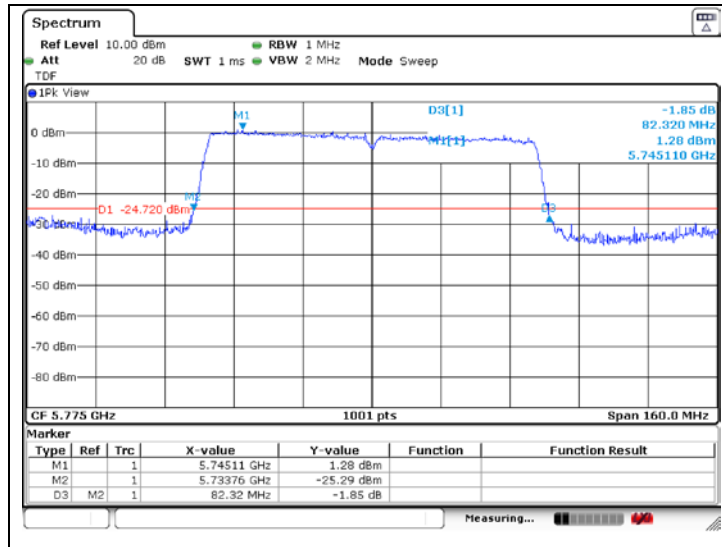


High Channel
(5 610 MHz)



802.11ac_VHT80 (Band 3)

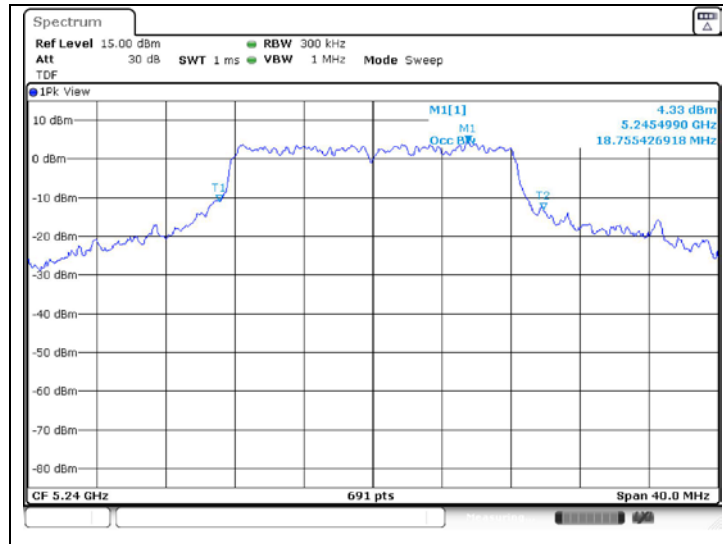
Middle Channel
(5 775 MHz)



99 % Bandwidth

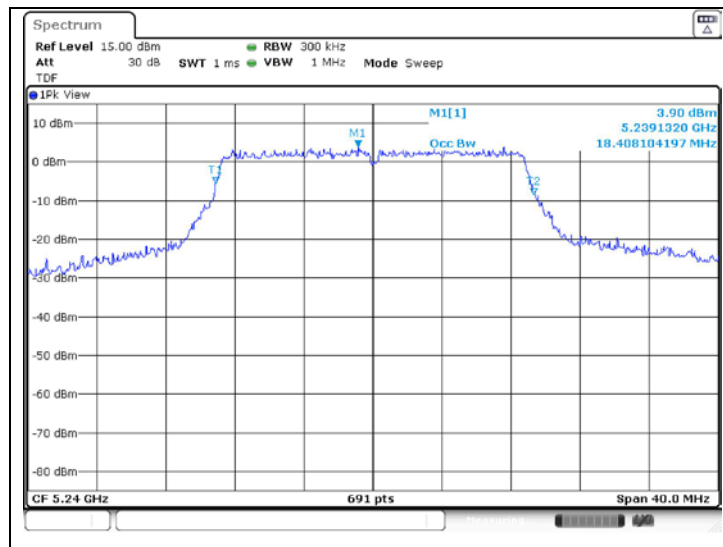
802.11a (Band 1)

High Channel
(5 240 MHz)



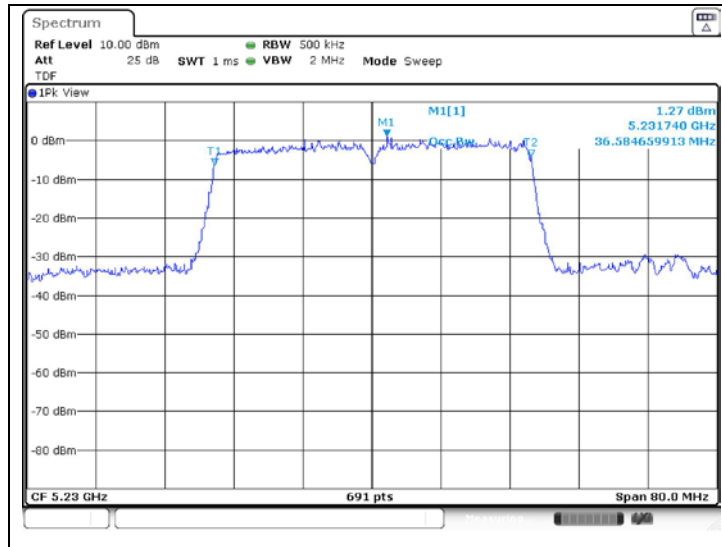
802.11n_HT20 (Band 1)

High Channel
(5 240 MHz)



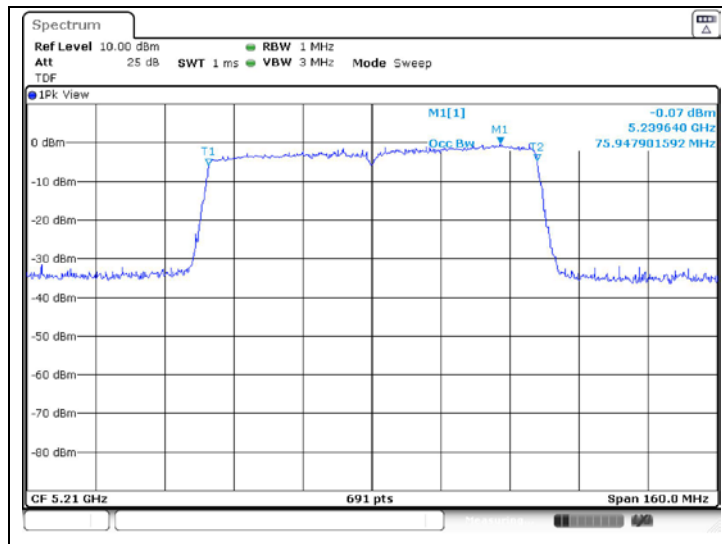
802.11n_HT40 (Band 1)

High Channel
(5 230 MHz)



802.11ac_VHT80 (Band 1)

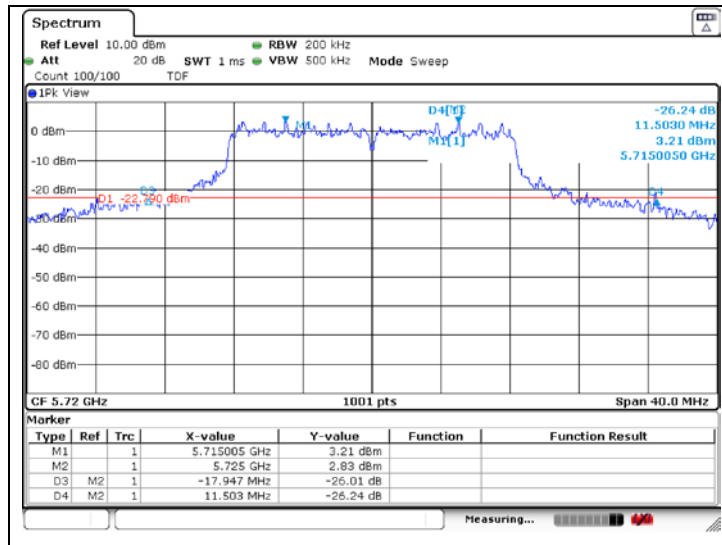
Middle Channel
(5 210 MHz)



Band-crossing channels

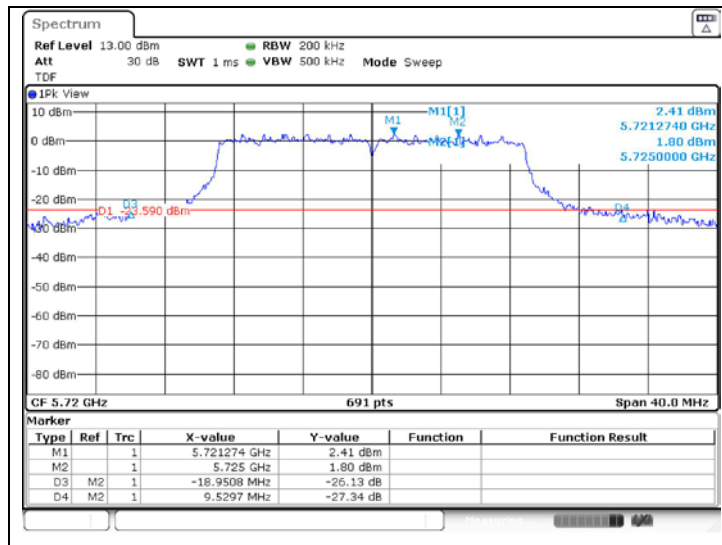
802.11a

High Channel
(5 720 MHz)



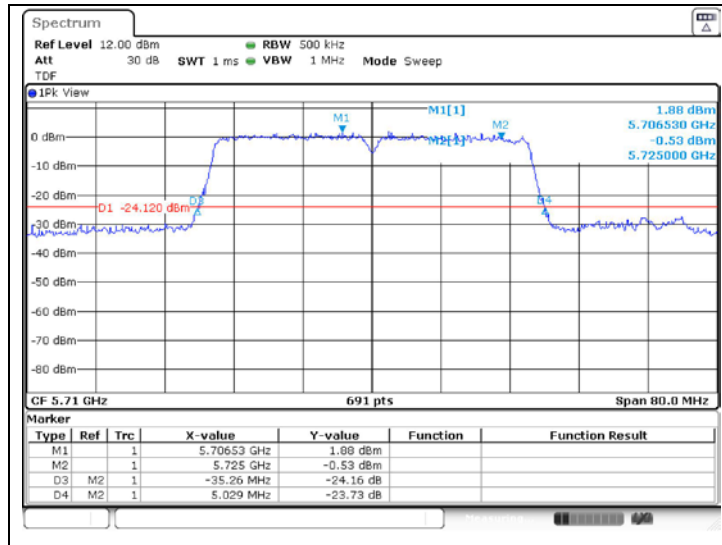
802.11n_HT20

High Channel
(5 720 MHz)



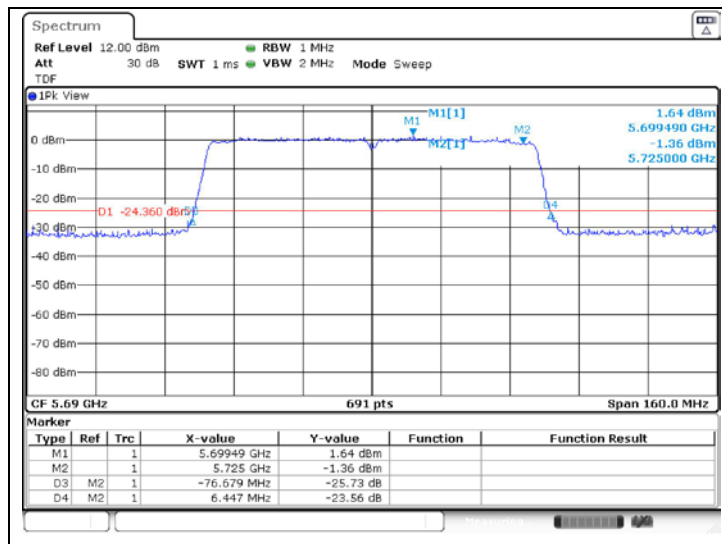
802.11n_HT40

High Channel
(5 710 MHz)



802.11ac_VHT80

High Channel
(5 690 MHz)



4. 6 dB Bandwidth

4.1. Test Setup



4.2. Limit

According to §15.407(e), within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

4.3. Test Procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

1. This measurement settings are specified in section II.C.2 of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Remark;

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.

4.4. Test Result

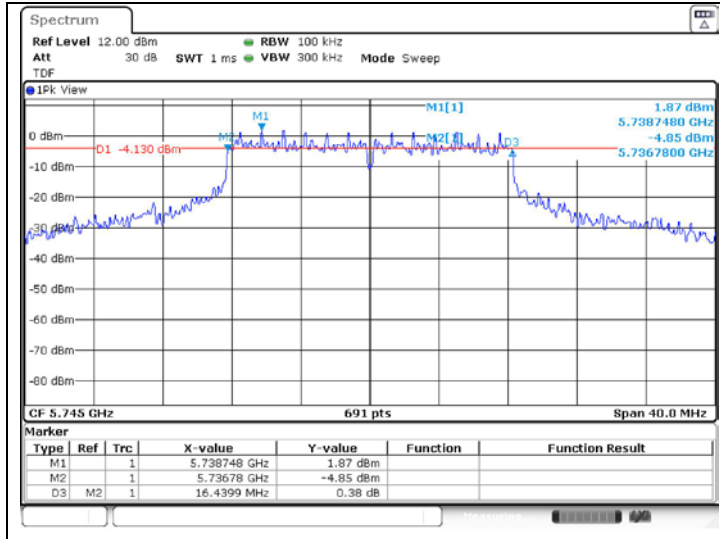
Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

Band	Mode	Frequency (MHz)	Ch.	Data Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Bandwidth (kHz)
U-NII 3	11a	5 745	149	54	16.440	500
		5 785	157		16.498	
		5 825	165		16.498	
	11n_HT20	5 745	149	MCS6	17.829	
		5 785	157		17.829	
		5 825	165		17.829	
	11n_HT40	5 755	151	MCS4	36.585	
		5 795	159		36.585	
	11ac_VHT80	5 775	155	MCS0	76.179	
U-NII 3 (Band-crossing channels)	11a	5 720	144	54	3.220	
	11n_HT20	5 720	144	MCS6	3.857	
	11n_HT40	5 710	142	MCS4	3.292	
	11ac_VHT80	5 690	138	MCS0	2.742	

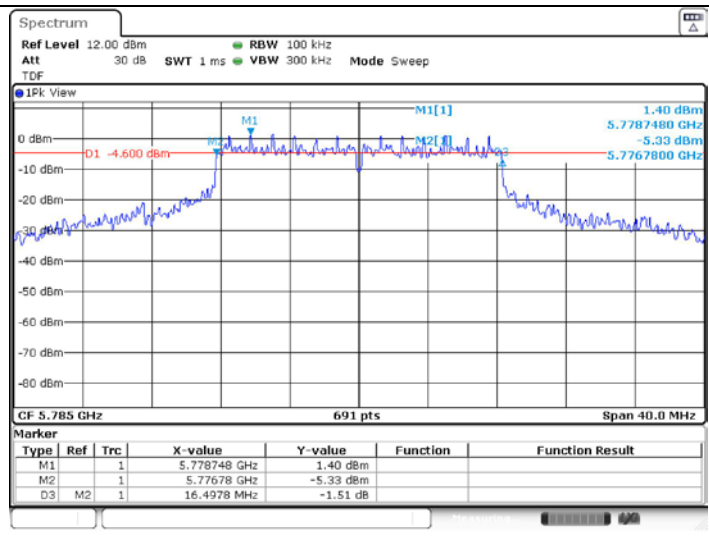
- Test plots

802.11a (Band 3)

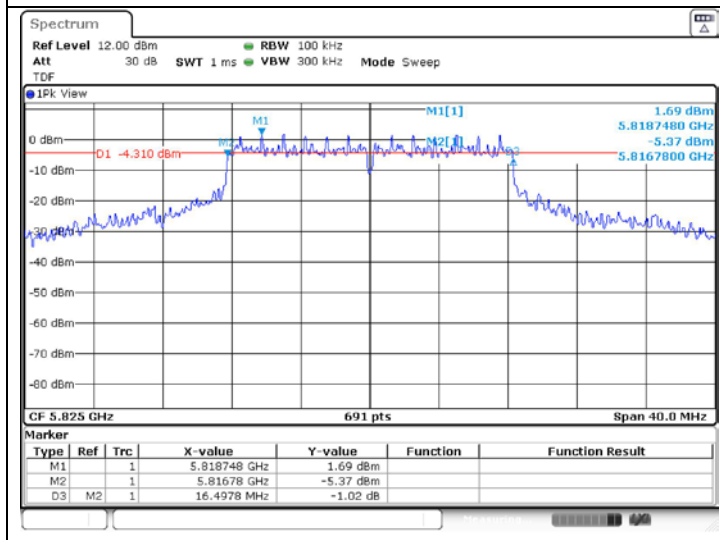
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

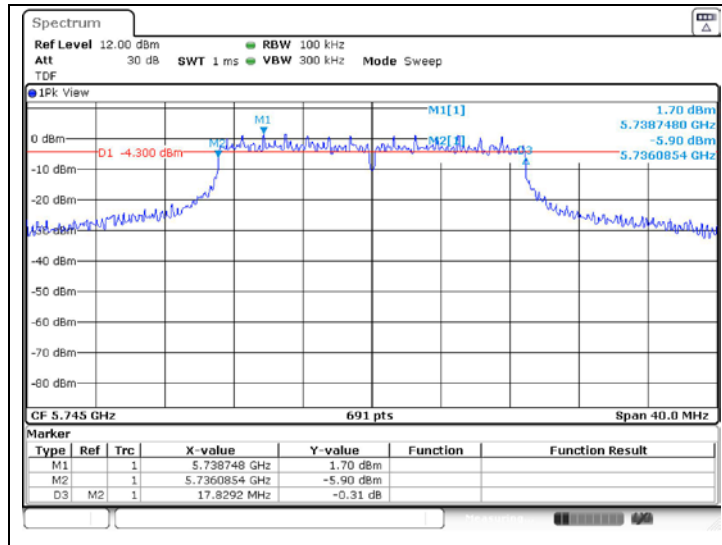


High Channel
(5 825 MHz)

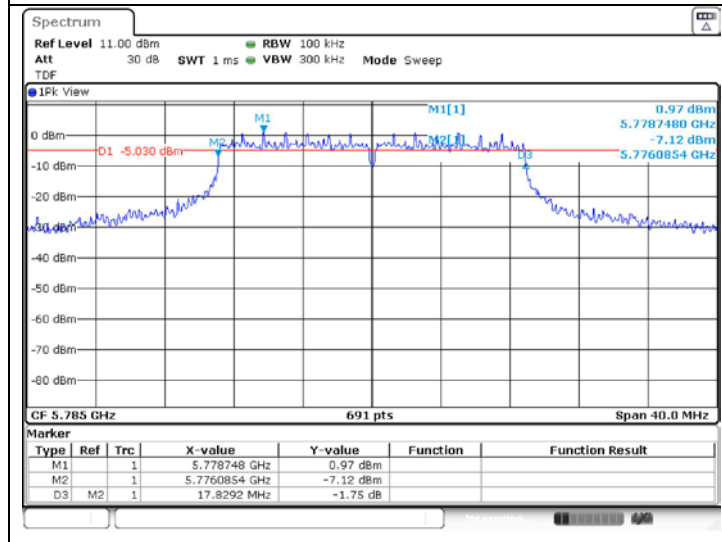


802.11n_HT20 (Band 3)

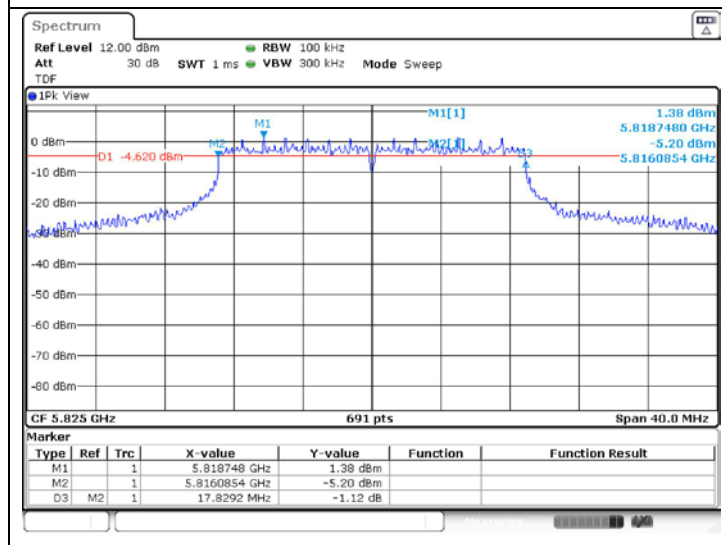
Low Channel
(5 745 MHz)



Middle Channel
(5 785 MHz)

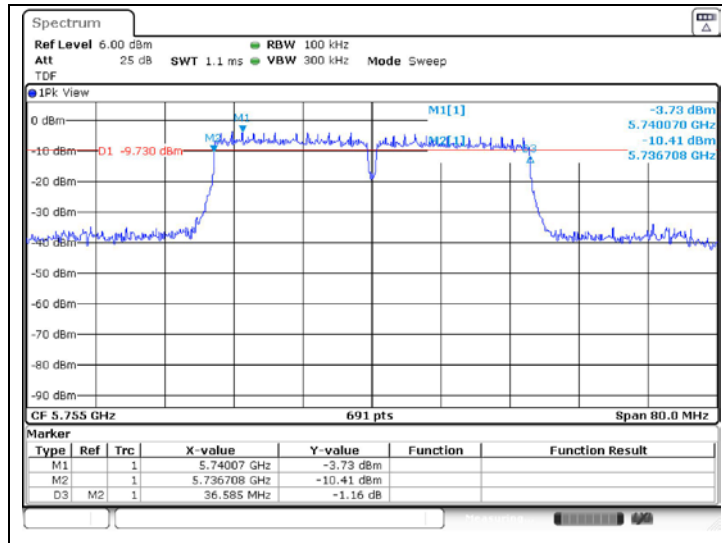


High Channel
(5 825 MHz)

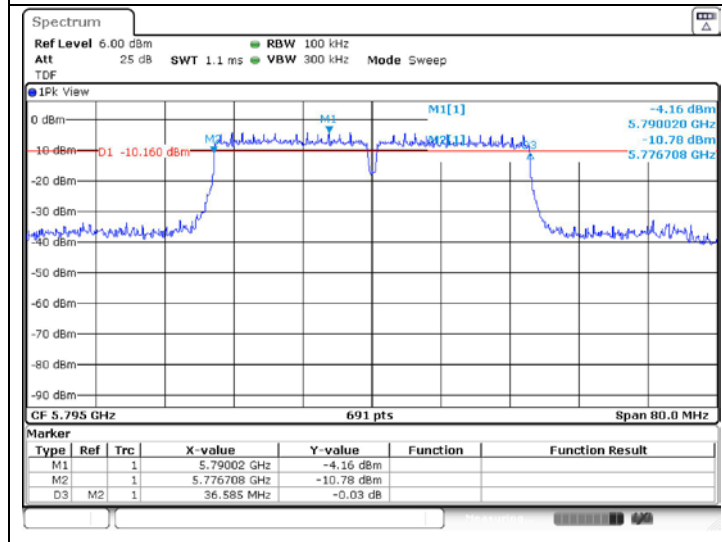


802.11n_HT40 (Band 3)

Low Channel
(5 755 MHz)

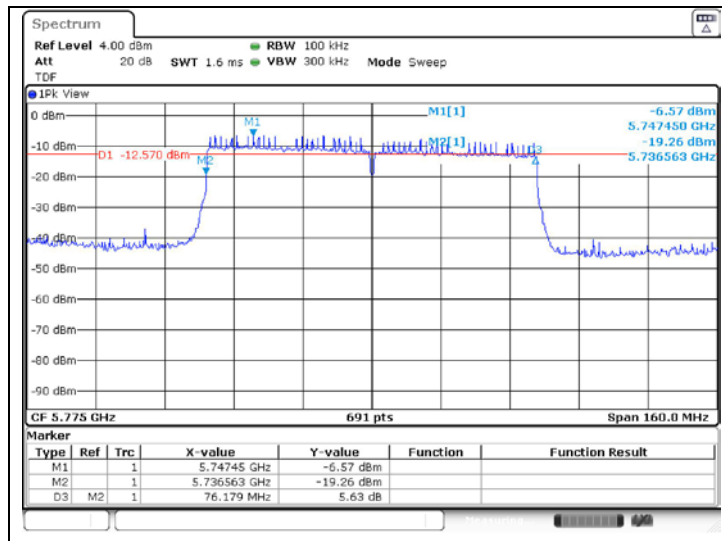


High Channel
(5 795 MHz)



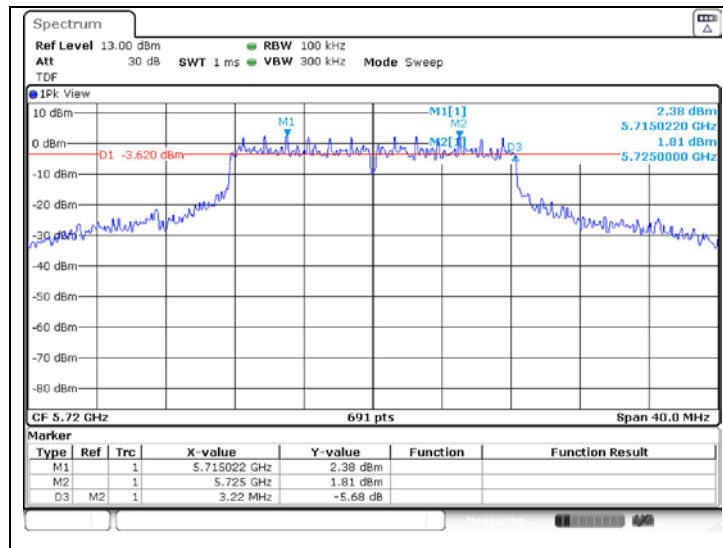
802.11ac_VHT80 (Band 3)

Middle Channel
(5 775 MHz)



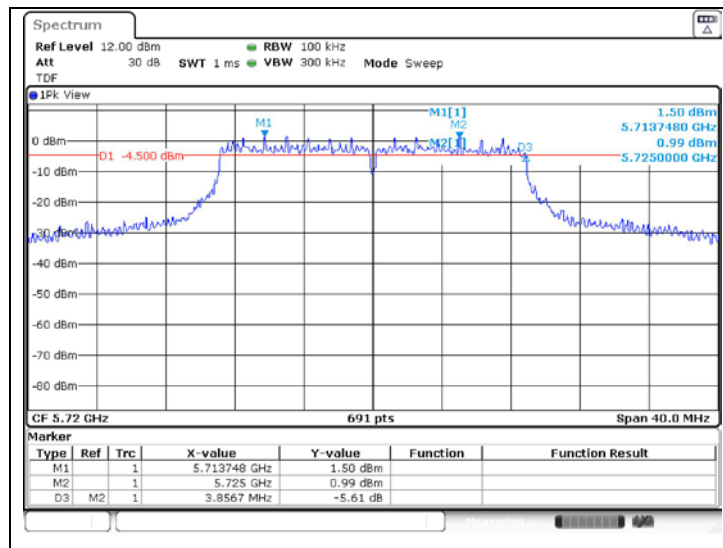
Band-crossing channels 802.11a

High Channel
(5 720 MHz)



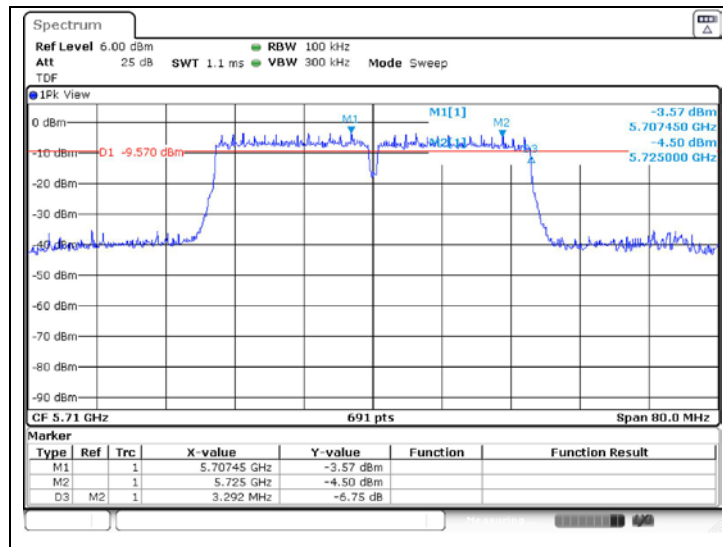
802.11n_HT20

High Channel
(5 720 MHz)



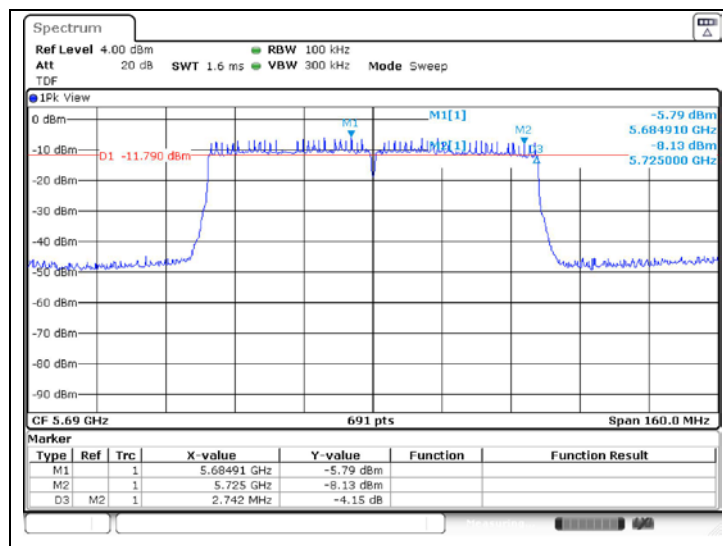
802.11n_HT40

High Channel
(5 710 MHz)



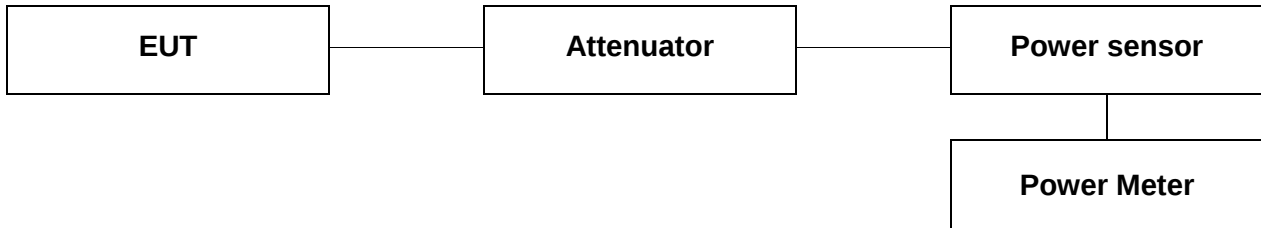
802.11ac_VHT80

High Channel
(5 690 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)(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 dB m + 10 log B, where B is the 26 dB emission bandwidth in megahertz. 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 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.

5.3. Test Procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

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 %).
6. 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.

5.4. Test Result

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

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	54	9.21	1.98	11.19
	5 220		10.42		12.40
	5 240		11.26		13.24
U-NII 2A	5 260		11.91		13.89
	5 300		10.92		12.90
	5 320		10.07		12.05
U-NII 2C	5 500		11.43		13.41
	5 600		9.65		11.63
	5 700		11.87		13.85
U-NII 3	5 745		10.59		12.57
	5 785		10.10		12.08
	5 825		10.56		12.54

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			-1.37	23.98
	5 220					
	5 240					
U-NII 2A	5 260		30.912	25.90	-1.45	
	5 300		33.864	26.30		
	5 320		33.864	26.30		
U-NII 2C	5 500		29.522	25.70	-2.13	
	5 600		33.806	26.29		
	5 700		29.870	25.75		
U-NII 3	5 745	30			0.39	30
	5 785					
	5 825					

Remark;

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

Test mode: 11n_HT20

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	MCS6	7.76	2.03	9.79
	5 220		8.96		10.99
	5 240		9.95		11.98
U-NII 2A	5 260		10.29		12.32
	5 300		9.46		11.49
	5 320		8.58		10.61
U-NII 2C	5 500		10.50		12.53
	5 600		9.06		11.09
	5 700		11.30		13.33
U-NII 3	5 745		10.00		12.03
	5 785		9.73		11.76
	5 825		10.36		12.39

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			-1.37	23.98
	5 220					
	5 240					
U-NII 2A	5 260		25.818	25.12	-1.45	
	5 300		25.760	25.11		
	5 320		26.918	25.30		
U-NII 2C	5 500		26.512	25.23	-2.13	
	5 600		28.944	25.62		
	5 700		27.091	25.33		
U-NII 3	5 745	30			0.39	30
	5 785					
	5 825					

Remark;

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

Test mode: 11n_HT40

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	MCS4	4.78	2.25	7.03
	5 230		5.98		8.23
U-NII 2A	5 270		6.99		9.24
	5 310		5.67		7.92
U-NII 2C	5 510		6.35		8.60
	5 590		5.31		7.56
	5 670		7.77		10.02
U-NII 3	5 755		7.12		9.37
	5 795		7.07		9.32

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			-1.37	23.98
	5 230					
U-NII 2A	5 270		40.174	27.04	-1.45	
	5 310		39.711	26.99		
U-NII 2C	5 510		40.174	27.04	-2.13	
	5 590		40.405	27.06		
	5 670		40.289	27.05		
U-NII 3	5 755	30			0.39	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	5.91	1.16	7.07
U-NII 2A	5 290		6.46		7.62
U-NII 2C	5 530		6.58		7.74
	5 610		6.53		7.69
U-NII 3	5 775		7.95		9.11

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			-1.37
U-NII 2A	5 290				-1.45
U-NII 2C	5 530		82.663	30.17	-2.13
	5 610		82.894	30.19	
U-NII 3	5 775	30			0.39

Remark;

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

- Band-crossing channels

Mode	Band	Frequency (MHz)	Data Rate (Mbps)	Average Power (dB m)	Duty Cycle Correction Factor (dB)	Average Power Result (dB m)
11a	U-NII 2C	5 720	54	10.21	1.98	12.19
	U-NII 3			2.77		4.75
11n_HT20	U-NII 2C	5 720	MCS6	9.44	2.03	11.47
	U-NII 3			3.30		5.33
11n_HT40	U-NII 2C	5 710	MCS4	7.22	2.25	9.47
	U-NII 3			-2.94		-0.69
11ac_VHT80	U-NII 2C	5 690	MCS0	8.60	1.16	9.76
	U-NII 3			-5.56		-4.40

Mode	Band	Limit					
		Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
11a	U-NII 2C	5 720	23.98	17.947	23.54	-2.13	23.54
	U-NII 3		30			0.39	30
11n_HT20	U-NII 2C	5 720	23.98	18.951	23.78	-2.13	23.78
	U-NII 3		30			0.39	30
11n_HT40	U-NII 2C	5 710	23.98	35.260	26.47	-2.13	23.98
	U-NII 3		30			0.39	30
11ac_VHT80	U-NII 2C	5 690	23.98	76.679	29.85	-2.13	23.98
	U-NII 3		30			0.39	30

Remark;

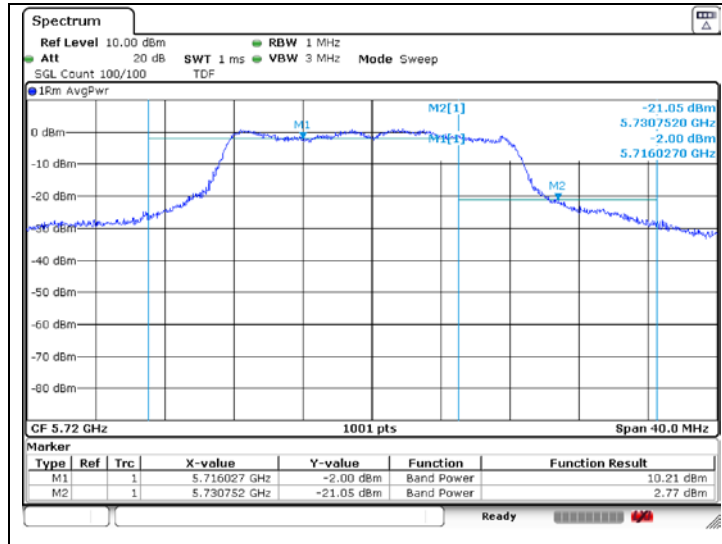
1. Average Power Result (dB m) = Average Power (dB m) + Duty Cycle Correction Factor (dB)

- Test plots

Band-crossing channels

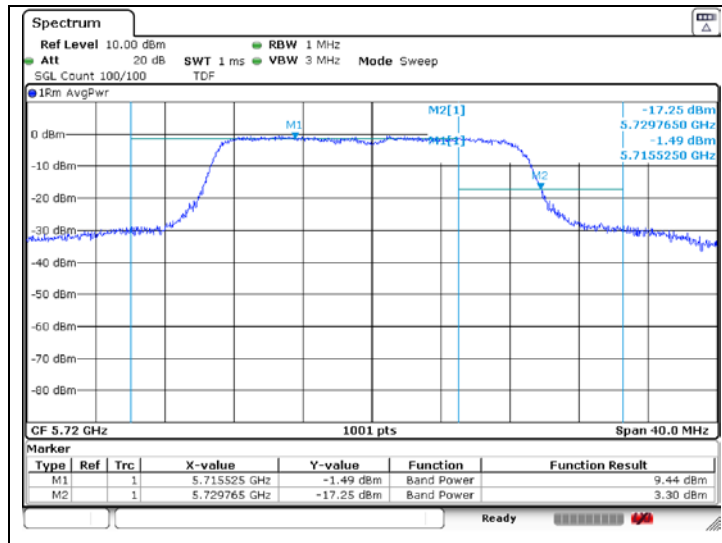
802.11a

High Channel
(5 720 MHz)



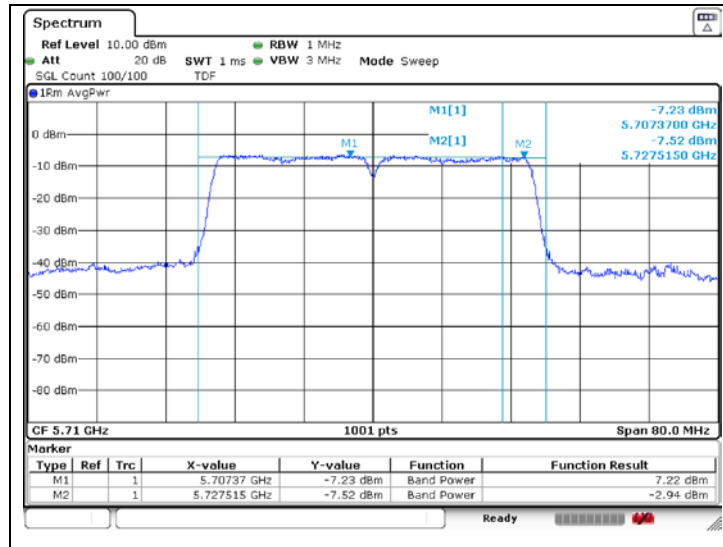
802.11n_HT20

High Channel
(5 720 MHz)



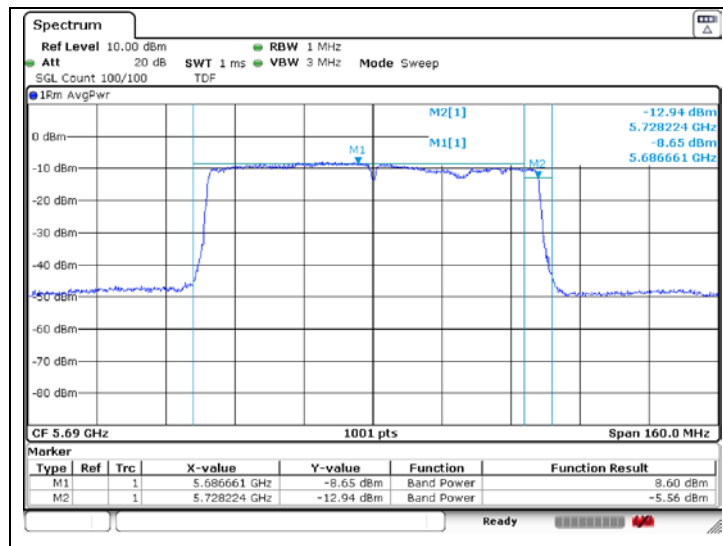
802.11n_HT40

High Channel
(5 710 MHz)



802.11ac_VHT80

High Channel
(5 690 MHz)



6. Peak 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 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)(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 dB m + 10 log B, where B is the 26 dB emission bandwidth in megahertz. 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.

6.3. Test Procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

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 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:
 - a) Set $RBW \geq 1/T$, where T is defined in section II.B.1.a).
 - b) Set $VBW \geq 3$ RBW.
 - c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log(500 \text{ kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ kHz})$ 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 $10 \log(1 \text{ MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ 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.

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	54	-0.04	1.98	1.94	11
	5 220	44		0.83		2.81	
	5 240	48		1.49		3.47	
U-NII 2A	5 260	52		1.79		3.77	
	5 300	60		0.81		2.79	
	5 320	64		-0.02		1.96	
U-NII 2C	5 500	100		1.28		3.26	
	5 600	120		0.39		2.37	
	5 700	140		1.68		3.66	
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	54	-2.64	1.98	-0.66	30
	5 785	157		-2.96		-0.98	
	5 825	165		-2.57		-0.59	

Remark;

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

Test mode: 11n_HT20

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	MCS6	-1.95	2.03	0.08	11
	5 220	44		-1.08		0.95	
	5 240	48		-0.03		2.00	
U-NII 2A	5 260	52		-0.11		1.92	
	5 300	60		-1.11		0.92	
	5 320	64		-1.68		0.35	
U-NII 2C	5 500	100		-0.28		1.75	
	5 600	120		-1.71		0.32	
	5 700	140		0.94		2.97	
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	MCS6	-2.74	2.03	-0.71	30
	5 785	157		-3.20		-1.17	
	5 825	165		-2.92		-0.89	

Remark;

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

Test mode: 11n_HT40

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	MCS4	-8.83	2.25	-6.58	11
	5 230	46		-7.50		-5.25	
U-NII 2A	5 270	54		-6.67		-4.42	
	5 310	62		-8.19		-5.94	
U-NII 2C	5 510	102		-7.36		-5.11	
	5 590	118		-8.54		-6.29	
	5 670	134		-6.28		-4.03	
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	MCS4	-8.97	2.25	-6.72	30
	5 795	159		-9.45		-7.20	

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	-10.02	1.16	-8.86	11
U-NII 2A	5 290	58		-9.69		-8.53	
U-NII 2C	5 530	106		-10.54		-9.38	
	5 610	122		-10.02		-8.86	
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	-10.36	1.16	-9.20	30

Remark;

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

Band-crossing channels

Mode	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 or dB m/500 kHz)
11a	U-NII 2C	5 720	144	54	1.30	1.98	3.28	11
	U-NII 3				-2.00		-0.02	30
11n_HT20	U-NII 2C	5 720	144	MCS6	0.12	2.03	2.15	11
	U-NII 3				-3.28		-1.25	30
11n_HT40	U-NII 2C	5 710	142	MCS4	-6.14	2.25	-3.89	11
	U-NII 3				-9.41		-7.16	30
11ac_VHT80	U-NII 2C	5 690	138	MCS0	-8.65	1.16	-7.49	11
	U-NII 3				-12.42		-11.26	30

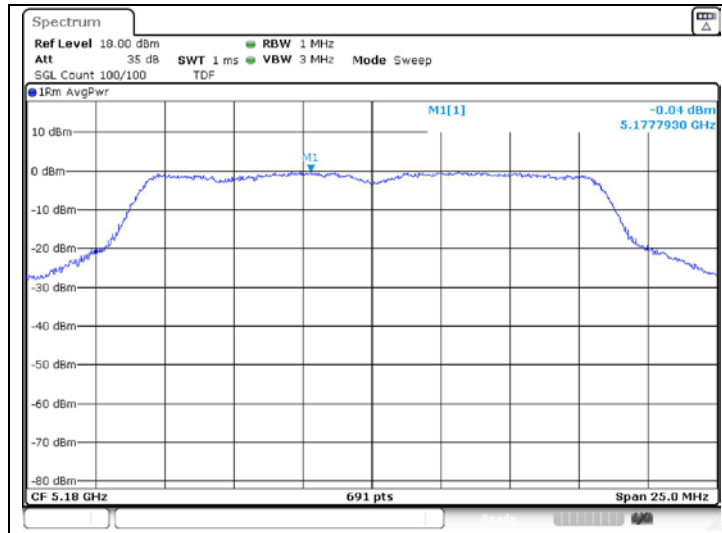
Remark;

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

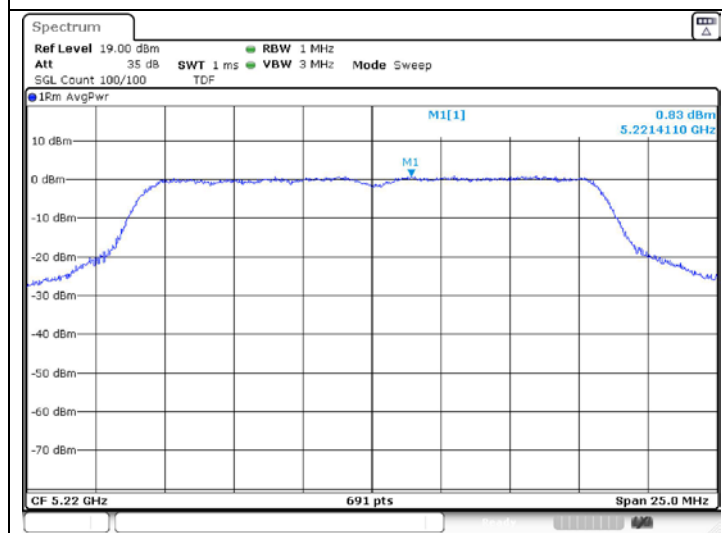
- Test plots

802.11a (Band 1)

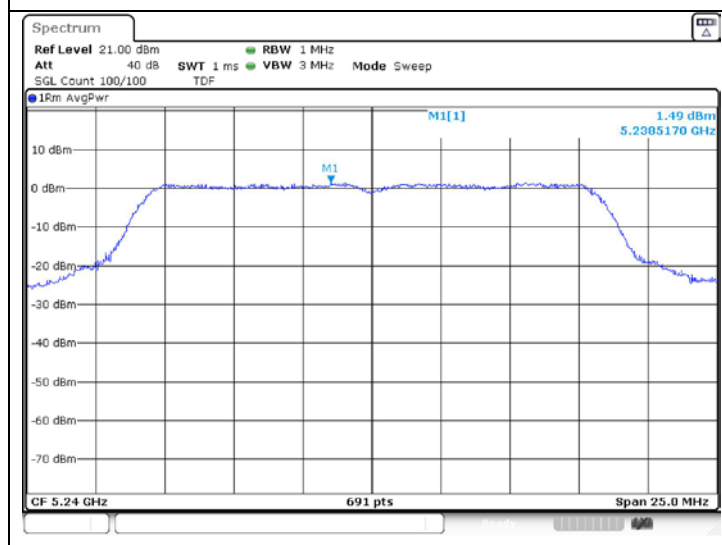
Low Channel
(5 180 MHz)



Middle Channel
(5 220 MHz)

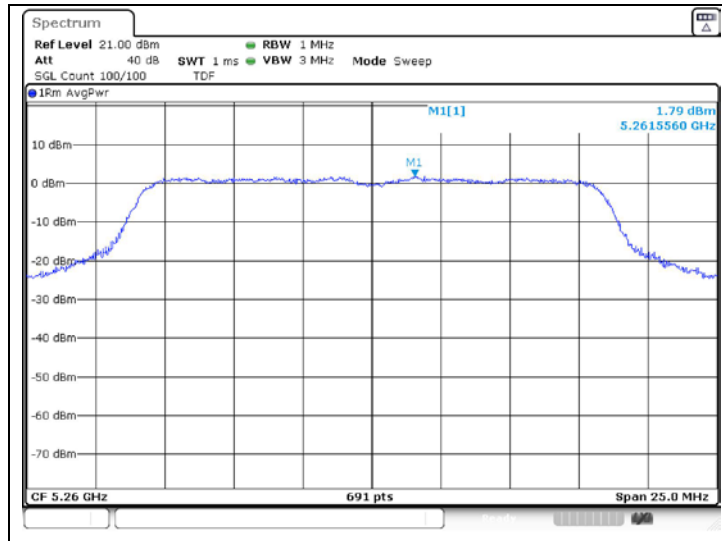


High Channel
(5 240 MHz)

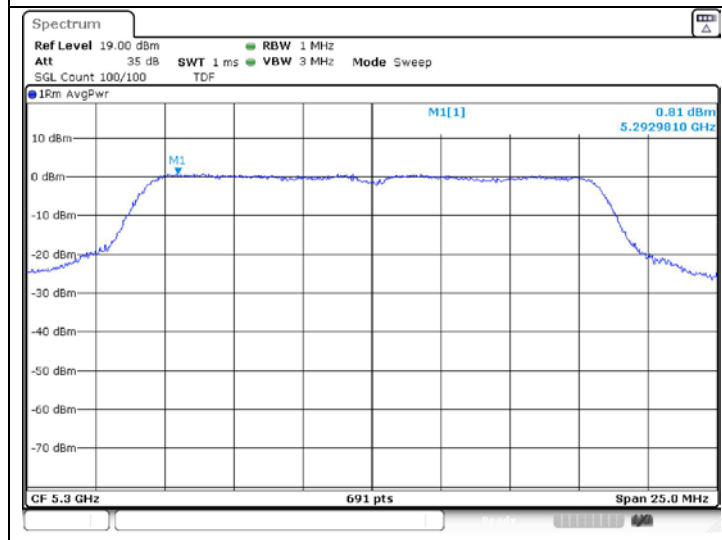


802.11a (Band 2A)

Low Channel
(5 260 MHz)



Middle Channel
(5 300 MHz)



High Channel
(5 320 MHz)

