

CH 149 6MB/s Vertical







CH 153 6MB/s Vertical







CH 161 6MB/s Vertical







Info:: HighGain Directional Antenna

3.11 Test Data – Antenna P/N: M5016019D30006I (1-6GHz)

CH 36 6MB/s Vertical



Frequency



CH 40 6MB/s Vertical







CH 48 6MB/s Vertical







CH 149 6MB/s Vertical







CH 153 6MB/s Vertical







CH 161 6MB/s Vertical







Info:: HighGain Directional Antenna

3.12 Test Data – Antenna P/N: M5016019D30006I (6-18GHz)



Fr equency

CH 36 6MB/s Vertical



CH 40 6MB/s Vertical



Horizontal



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CH 48 6MB/s Vertical







CH 149 6MB/s Vertical





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CH 153 6MB/s Vertical







CH 161 6MB/s Vertical







3.13 Test Data – Antenna P/N: M5016019D30006I (18-40GHz)





CH 40 6MB/s Vertical







CH 48 6MB/s Vertical







CH 149 6MB/s Vertical







CH 153 6MB/s Vertical







CH 161 6MB/s Vertical







3.14 Test Data – Tabular Results

Frequency	Raw Meas	Polarity	AF	CL	Amp	Corr Value	Limit	Margin	Dotoctor
MHz	(dBuV)	(V/H)	(dB/m)	(dB)	(dB)	dBuV/m	(dBuV/m)	(dB)	Delector
				Chanr	nel 149				
			Antenna I	P/N: M606007() MP13620 (MIN	MO Patch)			
11492.00	36.1	V	38.2	5.1	32.2	47.2	74.0	-26.8	Peak
11492.00	22.4	V	38.2	5.1	32.2	33.5	54.0	-20.5	Average
11492.00	34.2	Н	38.2	5.1	32.2	45.3	74.0	-28.7	Peak
11492.00	20.7	Н	38.2	5.1	32.2	31.8	54.0	-22.2	Average
		Antenna	P/N: M501601	9D30006l (Tri	iple Polarizatio	n Directional A	ntenna)		
11489.00	37.6	V	38.2	5.1	32.2	48.7	74.0	-25.3	Peak
11489.00	23.7	V	38.2	5.1	32.2	34.8	54.0	-19.2	Average
11489.00	39.6	Н	38.2	5.1	32.2	50.7	74.0	-23.3	Peak
11489.00	25.9	Н	38.2	5.1	32.2	37.0	54.0	-17.0	Average
				Chanr	nel 153				
			Antenna I	P/N: M6060070	0MP13620 (MI	NO Patch)			
11530.80	40.4	V	38.2	5.1	32.2	51.5	74.0	-22.5	Peak
11530.80	26.6	V	38.2	5.1	32.2	37.7	54.0	-16.3	Average
11530.80	35.7	Н	38.2	5.1	32.2	46.8	74.0	-27.2	Peak
11530.80	21.8	Н	38.2	5.1	32.2	32.9	54.0	-21.1	Average
			Antenna P/N	:M6013070P3	30006l (High D	ensity Panel)			
11532.00	37.6	V	38.2	5.1	32.2	48.7	74.0	-25.3	Peak
11532.00	24.1	V	38.2	5.1	32.2	35.2	54.0	-18.8	Average
11532.00	35.3	Н	38.2	5.1	32.2	46.4	74.0	-27.6	Peak
11532.00	21.5	Н	38.2	5.1	32.2	32.6	54.0	-21.4	Average
		Antenna	P/N: M501601	9D30006l (Tri	iple Polarizatio	n Directional A	ntenna)		
11530.00	42.5	V	38.2	5.1	32.2	53.6	74.0	-20.4	Peak
11530.00	28.6	V	38.2	5.1	32.2	39.7	54.0	-14.3	Average
11530.00	42.8	H	38.2	5.1	32.2	53.9	74.0	-20.1	Peak
11530.00	28.8	Н	38.2	5.1	32.2	39.9	54.0	-14.1	Average
				Chanr	nel 161				
			Antenna I	P/N: M606007(omp13620 (min	MO Patch)			
11611.00	40.7	V	38.3	5.1	32.4	51.7	74.0	-22.3	Peak
11611.00	26.9	V	38.3	5.1	32.4	37.9	54.0	-16.1	Average
11611.00	38.9	Н	38.3	5.1	32.4	49.9	74.0	-24.1	Peak
11611.00	25.2	Н	38.3	5.1	32.4	36.2	54.0	-17.8	Average
			Antenna P/N	:M6013070P3	30006l (High D	ensity Panel)			
11610.00	41.2	V	38.3	5.1	32.4	52.2	74.0	-21.8	Peak
11610.00	27.5	V	38.3	5.1	32.4	38.5	54.0	-15.5	Average
11610.00	41.0	Н	38.3	5.1	32.4	52.0	74.0	-22.0	Peak
11610.00	27.4	Н	38.3	5.1	32.4	38.4	54.0	-15.6	Average
		Antenna	P/N: M501601	9D30006l (Tri	iple Polarizatio	n Directional A	ntenna)		
11613.00	42.9	V	38.3	5.1	32.4	53.9	74.0	-20.1	Peak
11613.00	29.0	V	38.3	5.1	32.4	40.0	54.0	-14.0	Average
11613.00	44.2	Н	38.3	5.1	32.4	55.2	74.0	-18.8	Peak
11613.00	30.7	Н	38.3	5.1	32.4	41.7	54.0	-12.3	Average
Avg Value =	Level + AF + C	L-Amp							
Margin = Avg	Value - Limit								



4 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	30 October 2015
1	 Added reference to KDB 789033 in test method on page 7. Added Appendix A which includes guidance for power level adjustments needed to maintain compliance with the FCC rules 	11 January 2016
2	 Updated KDB reference on page 7 Corrected adjustment values for U-NII-1 Band 802.11n (HT20) table on page 65. 	25 January 2016
3	 Updated Appendix A – the High Gain 5GHz antenna (P/N: M5016019D30006I) is intended for point-to-point operation only. 	03 March 2016



Appendix A: Power Adjustment Requirements

To maintain compliance with the power and PSD limits defined in Section 15.407(a)(1)(i), the following guidance will be used for reducing the power settings relative to the original certification measurements.

U-NII-1 Band 802.11a Conducted Power

Channel	Freq	Freq (dBm)			Aggregate Power	Aggregate Power	Limit*	Required Reduction
	(MHZ)	Chain 0	Chain 1	Chain 2	(mW)	(dBm)	(dBm)	(dB)
36	5180	16.04	16.67	16.02	126.625	21.03	30	0
40	5200	18.46	17.54	18.62	199.678	23.00	30	0
48	5240	18.51	18.26	18.56	209.725	23.22	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power at 30° above as measured from the horizon

Channel	Freq (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Max Antenna Gain above 30 degrees from the horizon (dBi)	EIRP (dBm)	Limit (dBm)	Required Reduction (dB)		
	19) dBi Triple Pol	arization Direc	tional Antenna (P/N: M50)16019D3000)6I)			
NA – This a 15.407(a)(1 23dBi.	NA – This antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.								
		7 dBi High D	ensity MIMO F	Patch Array (P/N: M60130)70P30006I)				
36	5180	126.625	21.03	6.0	27.03	21	6.03		
40	5200	199.678	23.00	6.0	29.00	21	8.00		
48	5240	209.725	23.22	6.0	29.22	21	8.22		
		7 dBi Dual Ba	ind MIMO Pate	ch Antenna (P/N: M60600	70MP13620)				
36	5180	126.625	21.03	5.0	26.03	21	5.03		
40	5200	199.678	23.00	5.0	28.00	21	7.00		
48	5240	209.725	23.22	5.0	28.22	21	7.22		

Power Spectral Density

Channel	Freq	Measured Conducted Power (dBm)			Duty Cycle	Total PSD	Limit*	Required Reduction
Channer	(MHz)	Chain 0	Chain 1	Chain 2	Factor (dB)	(dBm)	(dBm)	(dB)
36	5180	4.28	3.75	4.24	0.37	9.23	17	0
40	5200	6.65	5.58	6.97	0.37	11.58	17	0
48	5240	6.97	6.74	7.41	0.37	12.19	17	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 17dBm PSD in conjunction with an antenna gain of up to 23dBi. For the 7dBi antennas, the limit is 16dBm which was met with the original certification measurements.

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U-NII-1 Band 802.11n (HT20)

Channel	Freq	Measured Conducted Power (dBm)			Aggregate Power	Aggregate Power	Limit*	Required Reduction
	(IVIHZ)	Chain 0	Chain 1	Chain 2	(mW)	(dBm)	(aBm)	(dB)
36	5180	16.73	16.19	16.15	129.899	21.14	30	0
40	5200	18.47	17.77	18.12	195.011	22.9	30	0
48	5240	18.41	18.21	18.43	205.228	23.12	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power at 30° above as measured from the horizon

Channel	Freq (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Max Antenna Gain above 30 degrees from the horizon (dBi)	EIRP (dBm)	Limit (dBm)	Required Reduction (dB)	
	19) dBi Triple Pol	larization Direc	tional Antenna (P/N: M50)16019D3000)6I)		
NA – This a 15.407(a)(1 23dBi.	NA – This antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.							
		7 dBi High D	ensity MIMO F	Patch Array (P/N: M60130)70P30006I)			
36	5180	129.899	21.14	6.0	27.14	21	6.14	
40	5200	195.011	22.9	6.0	28.9	21	7.9	
48	5240	205.228	23.12	6.0	29.12	21	8.12	
		7 dBi Dual Ba	and MIMO Pato	ch Antenna (P/N: M60600	70MP13620)			
36	5180	129.899	21.14	5.0	26.14	21	5.14	
40	5200	195.011	22.9	5.0	27.9	21	6.9	
48	5240	205.228	23.12	5.0	28.12	21	7.12	

Power Spectral Density

Channel	Freq	Measured Conducted Power (dBm)			Duty Cycle	Total PSD	Limit*	Required Reduction
Channel	(MHz)	Chain 0	Chain 1	Chain 2	Factor (dB)	(dBm)	(dBm)	(dB)
36	5180	4.04	3.54	3.99	0.26	8.89	17	0
40	5200	6.08	4.92	6.62	0.26	10.96	17	0
48	5240	6.78	6.35	7.3	0.26	11.86	17	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 17dBm PSD in conjunction with an antenna gain of up to 23dBi. For the 7dBi antennas, the limit is 16dBm which was met with the original certification measurements.



U-NII-1 Band 802.11n (HT40)

Channel	Freq	Freq (dBm)		Aggregate Power	Aggregate Power	Limit* (dBm)	Required Reduction	
	(MHz)	Chain 0	Chain 1	Chain 2	(mW)	(dBm)	(aвm)	(dB)
38	5190	11.83	11.16	12.01	44.188	16.45	30	0
46	5230	18.88	17.94	18.9	217.123	23.37	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power at 30° above as measured from the horizon

Channel	Freq (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Max Antenna Gain above 30 degrees from the horizon (dBi)	EIRP (dBm)	Limit (dBm)	Required Reduction (dB)		
	19) dBi Triple Pol	Triple Polarization Directional Antenna (P/N: M50)16019D30006I)			
NA – This a 15.407(a)(1 23dBi.	A – This antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 5.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 3dBi.								
		7 dBi High D	ensity MIMO F	Patch Array (P/N: M60130)70P30006I)				
38	5190	44.188	16.45	6.0	22.45	21	1.45		
46	5230	217.123	23.37	6.0	29.37	21	8.37		
	7 dBi Dual Band MIMO Patch Antenna (P/N: M6060070MP13620)								
38	5190	44.188	16.45	5.0	21.45	21	0.45		
46	5230	217.123	23.37	5.0	28.37	21	7.37		

Power Spectral Density

Channel	Freq	req (dBm)			Duty Cycle	Total PSD	Limit*	Required Reduction
Channel	(MHz)	Chain 0	Chain 1	Chain 2	Factor (dB)	(dBm)	(dBm)	(dB)
38	5190	-4.79	-5.77	-4.74	0.74	0.43	17	0
46	5230	3.31	3.12	3.16	0.74	8.71	17	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 17dBm PSD in conjunction with an antenna gain of up to 23dBi. For the 7dBi antennas, the limit is 16dBm which was met with the original certification measurements.



U-NII-1 Band 802.11ac (VHT80)

Channel	Freq (MHz)	Measured Conducted Power (dBm)			Aggregate Power	Aggregate Power	Limit*	Required Reduction
		Chain 0	Chain 1	Chain 2	(mW)	(dBm)	(aBm)	(dB)
42	5210	5.1	4.57	5.39	9.559	9.8	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power at 30° above as measured from the horizon

Channel	Freq (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Max Antenna Gain above 30 degrees from the horizon (dBi)	EIRP (dBm)	Limit (dBm)	Required Reduction (dB)			
	19 dBi Triple Polarization Directional Antenna (P/N: M5016019D30006I)									
NA – This a 15.407(a)(1 23dBi.	NA – This antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 30dBm conducted power in conjunction with an antenna gain of up to 23dBi.									
		7 dBi High D	ensity MIMO F	Patch Array (P/N: M60130)70P30006I)					
42	5210	9.559	9.8	6.0	15.8	21	0			
	7 dBi Dual Band MIMO Patch Antenna (P/N: M6060070MP13620)									
42	5210	9.559	9.8	5.0	14.8	21	0			

Power Spectral Density

Channel	Freq	Measure	Measured Conducted Power (dBm)		Duty Cycle	Total PSD	Limit*	Required Reduction
Channel	(MHz)	Chain 0	Chain 1	Chain 2	Factor (dB)	(dBm)	(dBm)	(dB)
42	5210	-15.31	-15.13	-15.18	1.21	-9.22	17	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, the power limits defined in 15.407(a)(1)(iii) were applied which allows for 17dBm PSD in conjunction with an antenna gain of up to 23dBi. For the 7dBi antennas, the limit is 16dBm which was met with the original certification measurements.



U-NII-3 Band 802.11a

Channel	Freq	Measured Conducted Power (dBm)			Aggregate Power	Aggregate Power	Limit*	Required Reduction
	(MHz)		Chain 1	Chain 2	(mW)	(dBm)	(aBm)	(dB)
149	5745	16.34	17.91	17.68	163.469	22.13	30	0
157	5785	22.96	23.24	22.6	590.53	27.71	30	0
165	5825	18.52	19.39	19.29	242.935	23.85	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm conducted power in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power Spectral Density

Chain	Channel	Freq (MHz)	PSD (dBm/500kHz)	10 log (N=3) dB	Duty Cycle Factor (dB)	Total PSD (dBm/500kHz)	Limit* (dBm)	Required Reduction (dB)
	149	5745	-0.31	4.77	0.26	4.83	30	0
0	157	5785	4.97	4.77	0.26	10.11	30	0
	165	5825	1.47	4.77	0.26	6.61	30	0
	149	5745	1.33	4.77	0.26	6.47	30	0
1	157	5785	5.14	4.77	0.26	10.28	30	0
	165	5825	2.07	4.77	0.26	7.21	30	0
	149	5745	1.37	4.77	0.26	6.51	30	0
2	157	5785	4.44	4.77	0.26	9.58	30	0
	165	5825	1.04	4.77	0.26	6.18	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm PSD in any 500kHz band in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was also met with the original certification measurements.



U-NII-3 Band 802.11n (HT20)

Channel	Freq	Freq (dBm)		Aggregate Power	Aggregate Power	Limit*	Required Reduction	
	(IVIHZ)	Chain 0	Chain 1	Chain 2	(mW)	(dBm)	(aBm)	(dB)
149	5745	16.55	17.59	17.9	164.258	22.16	30	0
157	5785	22.41	23.18	22.61	564.541	27.52	30	0
165	5825	18.67	18.86	19.11	232.004	23.65	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm conducted power in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power Spectral Density

Chain	Channel	Freq (MHz)	PSD (dBm/500kHz)	10 log (N=3) dB	Duty Cycle Factor (dB)	Total PSD (dBm/500kHz)	Limit* (dBm)	Required Reduction (dB)
	149	5745	-0.5	4.77	0.26	4.53	30	0
0	157	5785	4.92	4.77	0.26	9.95	30	0
	165	5825	1.07	4.77	0.26	6.1	30	0
	149	5745	0.91	4.77	0.26	5.94	30	0
1	157	5785	4.76	4.77	0.26	9.79	30	0
	165	5825	1.48	4.77	0.26	6.51	30	0
	149	5745	0.55	4.77	0.26	5.58	30	0
2	157	5785	4.21	4.77	0.26	9.24	30	0
	165	5825	0.97	4.77	0.26	6.0	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm PSD in any 500kHz band in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was also met with the original certification measurements.



U-NII-3 Band 802.11n (HT40)

Channel	Freq	Measured Conducted Power (dBm)			Aggregate Power	Aggregate Power	Limit*	Required Reduction	
	(MHz) Chain		Chain 1	Chain 2	(mW)	(dBm)	(aBm)	(dB)	
151	5755	14.27	15.69	15.6	100.106	20	30	0	
159	5795	19.02	20.05	19.74	275.146	24.4	30	0	

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm conducted power in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power Spectral Density

Chain	Channel	Freq (MHz)	PSD (dBm/500kHz)	10 log (N=3) dB	Duty Cycle Factor (dB)	Total PSD (dBm/500kHz)	Limit* (dBm)	Required Reduction (dB)
0	151	5755	-7.73	4.77	0.74	-2.22	30	0
0	159	5795	-1.49	4.77	0.74	4.02	30	0
4	151	5755	-6.5	4.77	0.74	-0.99	30	0
I	159	5795	-0.52	4.77	0.74	4.99	30	0
0	151	5755	-6.85	4.77	0.74	-1.34	30	0
2	159	5795	-1.56	4.77	0.74	3.95	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm PSD in any 500kHz band in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was also met with the original certification measurements.

U-NII-3 Band 802.11ac (VHT80)

Channel	Freq	Measure	ed Conducte (dBm)	Conducted Power (dBm)		Aggregate Power	Limit*	Required Reduction
	(MHZ)	Chain 0	Chain 1	Chain 2	(mW)	(dBm)	(dBm)	(dB)
155	5775	4.81	6.14	5.45	10.646	10.27	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm conducted power in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was met with the original certification measurements.

Power Spectral Density

Chain	Channel	Freq (MHz)	PSD (dBm/500kHz)	10 log (N=3) dB	Duty Cycle Factor (dB)	Total PSD (dBm/500kHz)	Limit* (dBm)	Required Reduction (dB)
0	155	5775	-21.25	4.77	1.21	-15.27	30	0
1	155	5775	-18.84	4.77	1.21	-12.86	30	0
2	155	5775	-20.35	4.77	1.21	-14.37	30	0

* The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(3) were applied which allows for 30dBm PSD in any 500kHz band in conjunction with an antenna gain greater than 6dBi.

For the 7dBi antennas, the limit is 29dBm which was also met with the original certification measurements.



Summary

The power reductions in the following tables are required to maintain compliance with all of the requirements defined in Sections 15.407(a)(1)(i), 15.407(a)(1)(iii), and 15.407(a)(3) when using these higher gain antennas:

19 dBi Triple Polarization Directional Antenna (P/N: M5016019D30006I) No reduction required - The 19dBi antenna is only intended for point-to-point back haul and bridging. Therefore, those power limits defined in 15.407(a)(1)(iii) and 15.407(a)(3) were applied.



7 dBi High Density MIMO Patch Array (P/N: M6013070P30006I)

Band	Modulation	Channel	Frequency	Reduction
		36	5180	6.03
	802.11a	40	5200	8.00
		48	5240	8.22
		36	5180	6.14
U-NII-1	802.11n (HT20)	40	5200	7.9
		48	5240	8.12
	902 11p (UT40)	38	5190	1.45
	оо2.1111 (H140)	46	5230	8.37
	802.11ac (VHT80)	42	5210	0
		149	5745	0
	802.11a	157	5785	0
		165	5825	0
		149	5745	0
U-NII-3	802.11n (HT20)	157	5785	0
		165	5825	0
	902 11p (HT40)	151	5755	0
	ооz.т III (пт40)	159	5795	0
	802.11ac (VHT80)	155	5775	0



7	dBi Dual Band MIM0) Patch Antenna	(P/N·M6060070MP13620)
			(1/14.10000007000110020)

Band	Modulation	Channel	Frequency	Reduction
U-NII-1	802.11a	36	5180	5.03
		40	5200	7.00
		48	5240	7.22
	802.11n (HT20)	36	5180	5.14
		40	5200	6.9
		48	5240	7.12
	802.11n (HT40)	38	5190	0.45
		46	5230	7.37
	802.11ac (VHT80)	42	5210	0
U-NII-3	802.11a	149	5745	0
		157	5785	0
		165	5825	0
	802.11n (HT20)	149	5745	0
		157	5785	0
		165	5825	0
	802.11n (HT40)	151	5755	0
		159	5795	0
	802.11ac (VHT80)	155	5775	0