

FCC 5GHz Power Table



Standard:	FCC Part 15.407	Test Date:	2019.10.21	Temperature:	25°C	Humidity:	55%RH	
Project No.:	1992128R	Product Name:	Wireless Access point	Model Name:	AP410C	Test Site:	TR8	
Antenna Gain(dBi)	Ant 3	4.70	Ant 5	4.60	Ant 6	4.60	Ant 7	4.70
2'2 CDD-Directional Gain-Power(dBi)	4.70		2'2 BF-Directional Gain-Power(dBi)		7.71			
4'4 CDD-Directional Gain-Power(dBi)	4.70		4'4 BF-Directional Gain-Power(dBi)		10.72			
Operating temperature range:	Low	0°C	Nor	25°C	High	40°C	Test Engineer:	Pawn

Antenna Technology:		SISO												Power Index							
Mode:	802.11a	Data Rate:	6Mbps	Conducted power SISO mode												Limit	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7
				Frequency (MHz)	Ant3 Reading Level (dBm)	Ant5 Reading Level (dBm)	Ant6 Reading Level (dBm)	Ant7 Reading Level (dBm)	Ant3 Avg. (dBm)	Ant5 Avg. (dBm)	Ant6 Avg. (dBm)	Ant7 Avg. (dBm)	Total Power Avg. (dBm)								
Test Conditions	Channel	Vnom (120V)	149	5745	16.96	16.53	16.49	16.44	16.96	16.53	16.49	16.44	30.00	Pass	80	80	80	80			
			157	5785	16.46	16.10	16.30	16.33	16.46	16.10	16.30	16.33	30.00	Pass	80	80	80	80			
			165	5825	16.34	16.56	15.89	16.07	16.34	16.56	15.89	16.07	30.00	Pass	80	80	80	80			
Tnom (25°C)	Vnom (120V)	149	5745	16.96	16.53	16.49	16.44	16.96	16.53	16.49	16.44	30.00	Pass	80	80	80	80				
		157	5785	16.46	16.10	16.30	16.33	16.46	16.10	16.30	16.33	30.00	Pass	80	80	80	80				
		165	5825	16.34	16.56	15.89	16.07	16.34	16.56	15.89	16.07	30.00	Pass	80	80	80	80				

Antenna Technology:		CDD 2'2												Power Index							
Mode:	802.11a	Data Rate:	6Mbps	Conducted power MIMO Mode(2TX+2RX)												Limit	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7
				Frequency (MHz)	Ant3 Reading Level (dBm)	Ant5 Reading Level (dBm)	Ant6 Reading Level (dBm)	Ant7 Reading Level (dBm)	Ant3 Avg. (dBm)	Ant5 Avg. (dBm)	Ant6 Avg. (dBm)	Ant7 Avg. (dBm)	Total Power Avg. (dBm)								
Test Conditions	Channel	Vnom (120V)	149	5745	16.96	16.53	16.49	16.44	16.96	16.53	16.49	16.44	30.00	Pass	80	80	80	80			
			157	5785	16.46	16.10	16.30	16.33	16.46	16.10	16.30	16.33	30.00	Pass	80	80	80	80			
			165	5825	16.34	16.56	15.89	16.07	16.34	16.56	15.89	16.07	30.00	Pass	80	80	80	80			
Tnom (25°C)	Vnom (120V)	149	5745	16.96	16.53	16.49	16.44	16.96	16.53	16.49	16.44	30.00	Pass	80	80	80	80				
		157	5785	16.46	16.10	16.30	16.33	16.46	16.10	16.30	16.33	30.00	Pass	80	80	80	80				
		165	5825	16.34	16.56	15.89	16.07	16.34	16.56	15.89	16.07	30.00	Pass	80	80	80	80				

Test Conditions	Channel	Frequency (MHz)	Reading Level			Total Power Avg. (dBm) (Ant 3+5)	Limit Avg. (dBm) (Ant 3+5)	Pass/Fail	Ant 3	Ant 5
			Ant3	Ant5	Avg. (dBm)					
Tnom (25°C)	Vnom (120V)	151	5755	17.47	17.73	20.61	30.00	Pass	80	80
		159	5795	17.78	17.57	20.69	30.00	Pass	80	80
		Conducted power			MIMO Mode(2TX+2RX)					
Mode:	802.11ax(80MHz)	Data Rate:	HEONS1							
Test Conditions	Channel	Frequency (MHz)	Reading Level			Total Power Avg. (dBm) (Ant 3+5)	Limit Avg. (dBm) (Ant 3+5)	Pass/Fail	Ant 3	Ant 5
			Ant3	Ant5	Avg. (dBm)					
Tnom (25°C)	Vnom (120V)	155	5775	17.57	17.34	21.47	30.00	Pass	73	73

Antenna Technology		CDD 4*4															
Mode:	802.11a	Data Rate:	Conducted power							Total Power	Limit	Power Index					
			MIMO Mode(4TX+4RX)									Ant 3	Ant 5	Ant 6	Ant 7		
Test Conditions	Channel	Frequency (MHz)	Ant3		Ant5		Ant6		Ant7		Avg. (dBm) (Ant 3+5+6+7)	Avg. (dBm)	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7
			Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)							
Tnom (25°C)	Vnom (120V)	149	5745	17.08	16.94	16.88	16.76	22.89	30.00	Pass	80	80	80	80			
		157	5785	16.83	16.49	16.27	16.72	22.53	30.00	Pass	80	80	80	80			
		165	5825	16.55	16.57	16.46	16.17	22.46	30.00	Pass	80	80	80	80			
		Conducted power			MIMO Mode(4TX+4RX)												
Mode:	802.11n(20MHz)	Data Rate:	MCS0														
Test Conditions	Channel	Ant3		Ant5		Ant6		Ant7		Total Power	Limit	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7	
		Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)								
Tnom (25°C)	Vnom (120V)	149	5745	17.45	17.03	16.68	16.91	23.05	30.00	Pass	80	80	80	80			
Tnom (25°C)	Vnom (120V)	157	5785	16.67	16.53	16.28	16.93	22.78	30.00	Pass	80	80	80	80			
		165	5825	16.91	16.96	16.53	16.74	22.81	30.00	Pass	80	80	80	80			
		Conducted power			MIMO Mode(4TX+4RX)												
		Mode:	802.11n(40MHz)	Data Rate:	MCS0												
Test Conditions	Channel	Ant3		Ant5		Ant6		Ant7		Total Power	Limit	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7	
		Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)								
Tnom (25°C)	Vnom (120V)	151	5755	16.86	16.77	16.32	16.44	22.52	30.00	Pass	80	80	80	80			
Tnom (25°C)	Vnom (120V)	159	5795	16.85	16.67	16.64	16.65	22.72	30.00	Pass	80	80	80	80			
		Conducted power			MIMO Mode(4TX+4RX)												
		Mode:	802.11ac(20MHz)	Data Rate:	MCS0NSS1												
		Test Conditions	Channel	Ant3		Ant5		Ant6		Ant7		Total Power	Limit	Pass/Fail	Ant 3	Ant 5	Ant 6
Reading Level	Avg. (dBm)			Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)								
Tnom (25°C)	Vnom (120V)	149	5745	17.33	16.85	16.75	16.94	22.99	30.00	Pass	80	80	80	80			
Tnom (25°C)	Vnom (120V)	157	5785	16.67	16.63	16.28	16.30	22.47	30.00	Pass	80	80	80	80			
		165	5825	16.88	16.73	16.14	16.30	22.24	30.00	Pass	80	80	80	80			
		Conducted power			MIMO Mode(4TX+4RX)												
		Mode:	802.11ac(40MHz)	Data Rate:	MCS0NSS1												
Test Conditions	Channel	Ant3		Ant5		Ant6		Ant7		Total Power	Limit	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7	
		Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)								
Tnom (25°C)	Vnom (120V)	151	5755	17.02	17.04	16.84	16.88	22.97	30.00	Pass	80	80	80	80			
Tnom (25°C)	Vnom (120V)	159	5795	17.03	16.90	16.81	16.99	22.95	30.00	Pass	80	80	80	80			
		Conducted power			MIMO Mode(4TX+4RX)												
		Mode:	802.11ac(80MHz)	Data Rate:	MCS0NSS1												
		Test Conditions	Channel	Ant3		Ant5		Ant6		Ant7		Total Power	Limit	Pass/Fail	Ant 3	Ant 5	Ant 6
Reading Level	Avg. (dBm)			Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)								
Tnom (25°C)	Vnom (120V)	155	5775	14.25	14.03	13.80	14.04	20.05	30.00	Pass	66	66	66	66			
Tnom (25°C)	Vnom (120V)	149	5745	17.84	16.99	16.83	16.72	23.11	30.00	Pass	80	80	80	80			
		157	5785	17.02	16.63	16.74	16.91	22.65	30.00	Pass	80	80	80	80			
		165	5825	16.71	16.86	16.32	16.79	22.70	30.00	Pass	80	80	80	80			
		Conducted power			MIMO Mode(4TX+4RX)												
Mode:	802.11ax(40MHz)	Data Rate:	HEONS1														
Test Conditions	Channel	Ant3		Ant5		Ant6		Ant7		Total Power	Limit	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7	
		Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)								
Tnom (25°C)	Vnom (120V)	151	5755	16.91	17.03	16.78	16.57	22.85	30.00	Pass	80	80	80	80			
Tnom (25°C)	Vnom (120V)	159	5795	16.99	17.07	16.70	16.75	22.90	30.00	Pass	80	80	80	80			
		Conducted power			MIMO Mode(4TX+4RX)												
		Mode:	802.11ax(80MHz)	Data Rate:	HEONS1												
		Test Conditions	Channel	Ant3		Ant5		Ant6		Ant7		Total Power	Limit	Pass/Fail	Ant 3	Ant 5	Ant 6
Reading Level	Avg. (dBm)			Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)								
Tnom (25°C)	Vnom (120V)	155	5775	14.25	14.41	14.13	14.26	20.29	30.00	Pass	66	66	66	66			

Antenna Technology		Beamforming 2*2															
Mode:	802.11n(20MHz)	Data Rate:	Conducted power							Total Power	Limit	Power Index					
			MIMO Mode(2TX+2RX)									Ant 3	Ant 5	Ant 6	Ant 7		
Test Conditions	Channel	Frequency (MHz)	Ant3		Ant5		Ant6		Ant7		Avg. (dBm) (Ant 3+5)	Avg. (dBm)	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7
			Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)							
Tnom (25°C)	Vnom (120V)	149	5745	16.76	16.28	16.53	28.29	Pass	80	80							
		157	5785	15.98	15.85	15.91	28.29	Pass	80	80							
		165	5825	16.05	15.98	15.93	28.29	Pass	80	80							
		Conducted power			MIMO Mode(2TX+2RX)												
Mode:	802.11n(40MHz)	Data Rate:	MCS0														
Test Conditions	Channel	Ant3		Ant5		Ant6		Ant7		Total Power	Limit	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7	
		Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)								
Tnom (25°C)	Vnom (120V)	151	5755	16.73	16.56	16.62	28.29	Pass	80	80							
Tnom (25°C)	Vnom (120V)	159	5795	16.83	16.62	16.29	28.29	Pass	80	80							
		Conducted power			MIMO Mode(2TX+2RX)												
		Mode:	802.11ac(20MHz)	Data Rate:	MCS0NSS1												
		Test Conditions	Channel	Ant3		Ant5		Ant6		Ant7		Total Power	Limit	Pass/Fail	Ant 3	Ant 5	Ant 6
Reading Level	Avg. (dBm)			Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)								
Tnom (25°C)	Vnom (120V)	149	5745	16.93	15.87	16.14	28.29	Pass	80	80							
Tnom (25°C)	Vnom (120V)	157	5785	15.83	15.74	15.80	28.29	Pass	80	80							
		165	5825	15.80	15.77	15.77	28.29	Pass	80	80							
		Conducted power			MIMO Mode(2TX+2RX)												
		Mode:	802.11ac(40MHz)	Data Rate:	MCS0NSS1												
Test Conditions	Channel	Ant3		Ant5		Ant6		Ant7		Total Power	Limit	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7	
		Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)								
Tnom (25°C)	Vnom (120V)	151	5755	16.79	17.06	16.57	28.29	Pass	80	80							
Tnom (25°C)	Vnom (120V)	159	5795	17.05	16.78	16.78	28.29	Pass	80	80							
		Conducted power			MIMO Mode(2TX+2RX)												
		Mode:	802.11ax(80MHz)	Data Rate:	MCS0NSS1												
		Test Conditions	Channel	Ant3		Ant5		Ant6		Ant7		Total Power	Limit	Pass/Fail	Ant 3	Ant 5	Ant 6
Reading Level	Avg. (dBm)			Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)								
Tnom (25°C)	Vnom (120V)	155	5775	16.05	16.12	16.10	28.29	Pass	73	73							
Tnom (25°C)	Vnom (120V)	149	5745	16.80	16.27	16.55	28.29	Pass	80	80							
		157	5785	16.03	15.78	15.82	28.29	Pass	80	80							
		165	5825	15.97	15.86	15.86	28.29	Pass	80	80							
		Conducted power			MIMO Mode(2TX+2RX)												
Mode:	802.11ax(40MHz)	Data Rate:	HEONS1														
Test Conditions	Channel	Ant3		Ant5		Ant6		Ant7		Total Power	Limit	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7	
		Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)	Reading Level	Avg. (dBm)								

Test Conditions		Channel	(MHz)	Ant3	Ant5	Avg. (dBm (Ant 3+5))	Avg. (dBm)	Pass/Fail	Ant 3	Ant 5
Tnom (25 °C)	Vnom (120V)	151	5755	16.89	17.06	19.59	25.28	Pass	80	80
		159	5795	17.04	16.83	19.95	28.29	Pass	80	80
Mode: 802.11ax(80MHz)		Data Rate: HEONSS1	Conducted power						Power Index	
			MIMO Mode(2TX+2RX)							
Test Conditions		Channel	Frequency	Ant3	Ant5	Total Power	Limit			
			(MHz)	Reading Level	Reading Level	Avg. (dBm (Ant 3+5))	Avg. (dBm)	Pass/Fail	Ant 3	Ant 5
				Avg. (dBm)	Avg. (dBm)					
Tnom (25 °C)	Vnom (120V)	155	5775	16.24	16.15	19.21	28.29	Pass	73	73

Antenna Technology:		Beamforming 4*4												
Mode: 802.11n(20MHz)		Data Rate: MCS0	Conducted power						Power Index					
			MIMO Mode(4TX+4RX)											
Test Conditions		Channel	Frequency	Ant3	Ant5	Ant6	Ant7	Total Power	Limit					
			(MHz)	Reading Level	Reading Level	Reading Level	Reading Level	Avg. (dBm (Ant 3+5+6+7))	Avg. (dBm)	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7
				Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)							
Tnom (25 °C)	Vnom (120V)	149	5745	16.59	16.57	16.15	16.56	22.49	25.28	Pass	80	80	80	80
		157	5785	16.19	16.17	16.00	16.03	22.12	25.28	Pass	80	80	80	80
		165	5825	16.45	16.07	15.88	16.23	22.18	25.28	Pass	80	80	80	80
Mode: 802.11n(40MHz)		Data Rate: MCS0	Conducted power						Power Index					
			MIMO Mode(4TX+4RX)											
Test Conditions		Channel	Frequency	Ant3	Ant5	Ant6	Ant7	Total Power	Limit					
			(MHz)	Reading Level	Reading Level	Reading Level	Reading Level	Avg. (dBm (Ant 3+5+6+7))	Avg. (dBm)	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7
				Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)							
Tnom (25 °C)	Vnom (120V)	151	5755	16.28	16.07	15.84	15.88	22.07	25.28	Pass	80	80	80	80
		159	5795	16.28	16.09	16.11	15.96	22.13	25.28	Pass	80	80	80	80
Mode: 802.11ac(20MHz)		Data Rate: MCS0SS1	Conducted power						Power Index					
			MIMO Mode(4TX+4RX)											
Test Conditions		Channel	Frequency	Ant3	Ant5	Ant6	Ant7	Total Power	Limit					
			(MHz)	Reading Level	Reading Level	Reading Level	Reading Level	Avg. (dBm (Ant 3+5+6+7))	Avg. (dBm)	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7
				Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)							
Tnom (25 °C)	Vnom (120V)	149	5745	16.71	16.27	15.96	16.34	22.35	25.28	Pass	80	80	80	80
		157	5785	16.21	15.96	15.79	15.74	21.93	25.28	Pass	80	80	80	80
		165	5825	16.08	15.73	15.72	15.97	21.90	25.28	Pass	80	80	80	80
Mode: 802.11ac(40MHz)		Data Rate: MCS0SS1	Conducted power						Power Index					
			MIMO Mode(4TX+4RX)											
Test Conditions		Channel	Frequency	Ant3	Ant5	Ant6	Ant7	Total Power	Limit					
			(MHz)	Reading Level	Reading Level	Reading Level	Reading Level	Avg. (dBm (Ant 3+5+6+7))	Avg. (dBm)	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7
				Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)							
Tnom (25 °C)	Vnom (120V)	151	5755	16.40	16.36	16.19	15.88	22.23	25.28	Pass	80	80	80	80
		159	5795	16.24	16.35	16.35	16.26	22.32	25.28	Pass	80	80	80	80
Mode: 802.11ax(80MHz)		Data Rate: MCS0SS1	Conducted power						Power Index					
			MIMO Mode(4TX+4RX)											
Test Conditions		Channel	Frequency	Ant3	Ant5	Ant6	Ant7	Total Power	Limit					
			(MHz)	Reading Level	Reading Level	Reading Level	Reading Level	Avg. (dBm (Ant 3+5+6+7))	Avg. (dBm)	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7
				Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)							
Tnom (25 °C)	Vnom (120V)	155	5775	13.85	13.49	13.42	13.59	19.61	25.28	Pass	64	64	64	64
Mode: 802.11ax(20MHz)		Data Rate: HEONSS1	Conducted power						Power Index					
			MIMO Mode(4TX+4RX)											
Test Conditions		Channel	Frequency	Ant3	Ant5	Ant6	Ant7	Total Power	Limit					
			(MHz)	Reading Level	Reading Level	Reading Level	Reading Level	Avg. (dBm (Ant 3+5+6+7))	Avg. (dBm)	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7
				Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)							
Tnom (25 °C)	Vnom (120V)	149	5745	16.67	16.23	16.33	16.60	22.48	25.28	Pass	80	80	80	80
		157	5785	16.51	16.00	15.87	16.26	22.19	25.28	Pass	80	80	80	80
		165	5825	16.07	16.08	15.78	16.19	22.05	25.28	Pass	80	80	80	80
Mode: 802.11ax(40MHz)		Data Rate: HEONSS1	Conducted power						Power Index					
			MIMO Mode(4TX+4RX)											
Test Conditions		Channel	Frequency	Ant3	Ant5	Ant6	Ant7	Total Power	Limit					
			(MHz)	Reading Level	Reading Level	Reading Level	Reading Level	Avg. (dBm (Ant 3+5+6+7))	Avg. (dBm)	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7
				Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)							
Tnom (25 °C)	Vnom (120V)	151	5755	16.42	16.41	16.17	15.99	22.27	25.28	Pass	80	80	80	80
		159	5795	16.63	16.51	16.17	16.27	22.42	25.28	Pass	80	80	80	80
Mode: 802.11ax(80MHz)		Data Rate: HEONSS1	Conducted power						Power Index					
			MIMO Mode(4TX+4RX)											
Test Conditions		Channel	Frequency	Ant3	Ant5	Ant6	Ant7	Total Power	Limit					
			(MHz)	Reading Level	Reading Level	Reading Level	Reading Level	Avg. (dBm (Ant 3+5+6+7))	Avg. (dBm)	Pass/Fail	Ant 3	Ant 5	Ant 6	Ant 7
				Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)							
Tnom (25 °C)	Vnom (120V)	155	5775	13.77	13.81	13.62	13.72	19.75	25.28	Pass	64	64	64	64