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# **Test Result of Peak Output Power**

			•							
Test Mode	Data	Channel	Freq.	Ant 0	Ant 1	Total	Peak	Max	EIRP	Result
	Rate	No.	(MHz)	Peak	Peak	Peak	Power	EIRP	Limit	
	(Mbps)			Power	Power	Power	Limit	(dBm)	(dBm)	
				(dBm)	(dBm)	(dBm)	(dBm)			
Ant 0										
11b	1	1	2412	20.14		20.14	≤30	22.04	≤ 36	Pass
11b	1	6	2437	22.01		22.01	≤30	23.91	≤ 36	Pass
11b	1	11	2462	19.93		19.93	≤30	21.83	≤ 36	Pass
11g	6	1	2412	24.85		24.85	≤30	26.75	≤ 36	Pass
11g	6	6	2437	24.86		24.86	≤30	26.76	≤ 36	Pass
11g	6	11	2462	24.88		24.88	≤30	26.78	≤ 36	Pass
11n-HT20	6.5	1	2412	25.87		25.87	≤30	27.77	≤ 36	Pass
11n-HT20	6.5	6	2437	25.36		25.36	≤30	27.26	≤ 36	Pass
11n-HT20	6.5	11	2462	25.14		25.14	≤30	27.04	≤ 36	Pass
11n-HT40	13.5	3	2422	25.01		25.01	≤30	26.91	≤ 36	Pass
11n-HT40	13.5	6	2437	25.23		25.23	≤30	27.13	≤ 36	Pass
11n-HT40	13.5	9	2452	25.02		25.02	≤30	26.92	≤ 36	Pass
Ant 1										
11n-HT20	6.5	1	2412		25.41	25.41	≤30	27.31	≤ 36	Pass
11n-HT20	6.5	6	2437		25.31	25.31	≤30	27.21	≤ 36	Pass
11n-HT20	6.5	11	2462		25.19	25.19	≤30	27.09	≤ 36	Pass
11n-HT40	13.5	3	2422		25.02	25.02	≤30	26.92	≤ 36	Pass
11n-HT40	13.5	6	2437		25.20	25.20	≤30	27.10	≤ 36	Pass
11n-HT40	13.5	9	2452		25.13	25.13	≤30	27.03	≤ 36	Pass
Ant 0 + 1										
11n-HT20	6.5	1	2412	24.07	24.27	27.18	≤30	29.08	≤ 36	Pass
11n-HT20	6.5	6	2437	23.91	24.06	27.00	≤30	28.90	≤ 36	Pass
11n-HT20	6.5	11	2462	23.86	23.92	26.90	≤30	28.80	≤ 36	Pass
11n-HT40	13.5	3	2422	23.88	23.87	26.89	≤30	28.79	≤ 36	Pass
11n-HT40	13.5	6	2437	23.48	23.85	26.68	≤30	28.58	≤ 36	Pass
11n-HT40	13.5	9	2452	23.67	23.65	26.67	≤30	28.57	≤ 36	Pass

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Test Mode	Data	Channel	Freg.	Ant 0	Ant 1	Ant 2	Ant 3	Total	Peak	Max	EIRP	Result
Tool mode	Rate		(MHz)		Peak	Peak	Peak	Peak	Power	EIRP	Limit	rtoodit
	(Mbps)		,		Power		Power	Power	Limit	(dBm)	(dBm)	
	( -1 -7			(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	(dBm)	( )	( )	
Ant 0 + 1 + 2 + 3, Non-Beam Forming												
11a	6	149	5745	23.32	23.78	22.15	22.58	29.02	≤30	31.72	≤ 36	Pass
11a	6	157	5785	23.56	24.62	23.15	23.41	29.74	≤30	32.44	≤ 36	Pass
11a	6	165	5825	23.76	24.31	22.75	23.19	29.56	≤30	32.26	≤ 36	Pass
11n-HT20	6.5	149	5745	23.67	24.26	23.07	23.22	29.60	≤30	32.3	≤ 36	Pass
11n-HT20	6.5	157	5785	23.13	23.91	22.65	22.82	29.18	≤30	31.88	≤ 36	Pass
11n-HT20	6.5	165	5825	22.69	23.81	22.02	22.83	28.91	≤30	31.61	≤ 36	Pass
11ac-VHT20	6.5	149	5745	23.68	24.08	22.84	23.70	29.62	≤30	32.32	≤ 36	Pass
11ac-VHT20	6.5	157	5785	23.59	23.78	22.52	22.79	29.22	≤30	31.92	≤ 36	Pass
11ac-VHT20	6.5	165	5825	22.98	23.61	22.34	22.95	29.01	≤30	31.71	≤ 36	Pass
11n-HT40	13.5	151	5755	23.89	24.69	22.76	23.27	29.73	≤30	32.43	≤ 36	Pass
11n-HT40	13.5	159	5795	23.75	24.22	22.41	22.81	29.38	≤30	32.08	≤ 36	Pass
11ac-VHT40	13.5	151	5755	24.07	24.44	23.02	23.22	29.75	≤30	32.45	≤ 36	Pass
11ac-VHT40	13.5	159	5795	23.38	24.29	22.34	22.96	29.32	≤30	32.02	≤ 36	Pass
11ac-VHT80	29.3	155	5775	23.56	24.65	22.35	23.14	29.53	≤30	32.23	≤ 36	Pass
Ant 0 + 1 + 2	2 + 3, B	eam Forn	ning									
11n-HT20	6.5	149	5745	20.71	21.03	19.77	19.33	26.28	≤27.3	34.98	≤ 36	Pass
11n-HT20	6.5	157	5785	20.10	20.70	18.77	19.55	25.86	≤27.3	34.56	≤ 36	Pass
11n-HT20	6.5	165	5825	21.32	21.47	19.96	20.49	26.87	≤27.3	35.57	≤ 36	Pass
11ac-VHT20	6.5	149	5745	20.56	20.91	19.56	19.96	26.30	≤27.3	35.00	≤ 36	Pass
11ac-VHT20	6.5	157	5785	20.23	20.75	19.26	20.06	26.13	≤27.3	34.83	≤ 36	Pass
11ac-VHT20	6.5	165	5825	21.42	21.68	19.91	20.80	27.03	≤27.3	35.73	≤ 36	Pass
11n-HT40	13.5	151	5755	20.83	20.68	19.42	19.54	26.19	≤27.3	34.89	≤ 36	Pass
11n-HT40	13.5	159	5795	20.62	20.68	19.34	19.91	26.19	≤27.3	34.89	≤ 36	Pass
11ac-VHT40	13.5	151	5755	20.48	20.57	19.09	19.39	25.95	≤27.3	34.65	≤ 36	Pass
11ac-VHT40	13.5	159	5795	20.28	20.62	19.27	19.85	26.05	≤27.3	34.75	≤ 36	Pass
11ac-VHT80	29.3	155	5775	20.74	20.76	19.42	19.50	26.17	≤27.3	34.87	≤ 36	Pass



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# **Test Result of Average Output Power (Reporting Only)**

Test Mode	Data Rate	Channel	Erog	Ant 0	Ant 1	Total	Limit	Result
rest Mode	(Mbps)	No.	Freq. (MHz)	Ant 0 Average	Ant 1	Total Average	Limit (dBm)	Result
	(IVIDPS)	NO.	(IVIIIZ)	Power			(ubili)	
					Power	Power		
A + 0				(dBm)	(dBm)	(dBm)		
Ant 0					<u> </u>			
11b	1	1	2412	15.79		15.79	≤30	Pass
11b	1	6	2437	16.43		16.43	≤30	Pass
11b	1	11	2462	15.94		15.94	≤30	Pass
11g	6	1	2412	16.02		16.02	≤30	Pass
11g	6	6	2437	16.03		16.03	≤30	Pass
11g	6	11	2462	15.89		15.89	≤30	Pass
11n-HT20	6.5	1	2412	15.94		15.94	≤30	Pass
11n-HT20	6.5	6	2437	15.93		15.93	≤30	Pass
11n-HT20	6.5	11	2462	15.93		15.93	≤30	Pass
11n-HT40	13.5	3	2422	15.83		15.83	≤30	Pass
11n-HT40	13.5	6	2437	16.02		16.02	≤30	Pass
11n-HT40	13.5	9	2452	15.86		15.86	≤30	Pass
Ant 1								
11n-HT20	6.5	1	2412		16.27	16.27	≤30	Pass
11n-HT20	6.5	6	2437		15.81	15.81	≤30	Pass
11n-HT20	6.5	11	2462		15.67	15.67	≤30	Pass
11n-HT40	13.5	3	2422		15.91	15.91	≤30	Pass
11n-HT40	13.5	6	2437		15.87	15.87	≤30	Pass
11n-HT40	13.5	9	2452		15.46	15.46	≤30	Pass
Ant 0 + 1								
11n-HT20	6.5	1	2412	14.11	14.76	17.46	≤30	Pass
11n-HT20	6.5	6	2437	15.06	14.00	17.57	≤30	Pass
11n-HT20	6.5	11	2462	13.84	14.39	17.13	≤30	Pass
11n-HT40	13.5	3	2422	13.92	13.76	16.85	≤30	Pass
11n-HT40	13.5	6	2437	13.85	13.71	16.79	≤30	Pass
11n-HT40	13.5	9	2452	13.81	13.63	16.73	≤30	Pass

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Test Mode	Data Rate	Channel	Freq.	Ant 0	Ant 1	Ant 2	Ant 3	Total	Limit	Result
	(Mbps)	No.	(MHz)	Average	Average	Average	Average	Average	(dBm)	
	( -1 -7		,	Power	Power	Power	Power	Power	(	
				(dBm)	(dBm)	(dBm)	(dBm)	(dBm)		
Ant 0 + 1 + 2	+ 3, Non-E	Beam Forn	ning							
11a	6	149	5745	15.56	15.93	14.08	14.62	21.13	≤30	Pass
11a	6	157	5785	16.49	16.75	14.92	15.48	21.99	≤30	Pass
11a	6	165	5825	15.86	16.41	14.64	15.25	21.61	≤30	Pass
11n-HT20	6.5	149	5745	15.69	16.15	14.62	14.78	21.38	≤30	Pass
11n-HT20	6.5	157	5785	15.25	15.64	14.22	14.39	20.94	≤30	Pass
11n-HT20	6.5	165	5825	14.86	16.53	13.57	14.37	20.99	≤30	Pass
11ac-VHT20	6.5	149	5745	15.73	16.04	14.31	15.16	21.38	≤30	Pass
11ac-VHT20	6.5	157	5785	15.06	15.96	14.30	14.79	21.09	≤30	Pass
11ac-VHT20	6.5	165	5825	14.99	15.52	13.96	14.50	20.80	≤30	Pass
11n-HT40	13.5	151	5755	16.00	16.71	14.78	15.18	21.75	≤30	Pass
11n-HT40	13.5	159	5795	15.72	16.25	14.17	14.72	21.31	≤30	Pass
11ac-VHT40	13.5	151	5755	16.09	16.36	14.94	15.12	21.69	≤30	Pass
11ac-VHT40	13.5	159	5795	15.37	16.34	14.27	14.83	21.29	≤30	Pass
11ac-VHT80	29.3	155	5775	15.36	16.21	13.98	14.53	21.12	≤30	Pass
Ant 0 + 1 + 2	+ 3, Beam	Forming								
11n-HT20	6.5	149	5745	12.28	12.34	10.78	11.14	17.71	≤30	Pass
11n-HT20	6.5	157	5785	12.87	13.39	11.64	12.50	18.67	≤30	Pass
11n-HT20	6.5	165	5825	13.34	13.58	11.66	12.16	18.78	≤30	Pass
11ac-VHT20	6.5	149	5745	12.58	12.75	11.18	10.73	17.92	≤30	Pass
11ac-VHT20	6.5	157	5785	11.96	12.31	10.91	11.14	17.64	≤30	Pass
11ac-VHT20	6.5	165	5825	13.19	13.42	11.36	12.02	18.60	≤30	Pass
11n-HT40	13.5	151	5755	12.26	12.64	10.86	11.33	17.85	≤30	Pass
11n-HT40	13.5	159	5795	12.00	12.54	10.63	11.37	17.71	≤30	Pass
11ac-VHT40	13.5	151	5755	13.26	13.49	11.59	12.09	18.70	≤30	Pass
11ac-VHT40	13.5	159	5795	12.54	12.51	11.16	11.26	17.94	≤30	Pass
11ac-VHT80	29.3	155	5775	12.42	12.51	11.13	11.64	17.98	≤30	Pass



## 7.4. Power Spectral Density Measurement §15.247(e); RSS-210 [A8.2]

#### 7.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

## **Limit for Non-Beam Forming**

Power Spectral Density 5745 ~ 5825MHz: Limit (dBm / 3kHz) = 8dBm / 3kHz

#### **Limit for Beam Forming**

Power Spectral Density 5745 ~ 5825MHz: Limit (dBm / 3kHz) = 8dBm / 3kHz - (8.7dBi - 6dBi) =

## 5.3dBm / 3kHz

#### 7.4.2. Test Procedure Used

KDB 558074 D01v03r01 - Section 10.2 Method PKPSD

## 7.4.3. Test Setting

- 1. Analyzer was set to the center frequency of the DTS channel under investigation
- 2. Span = 1.5 times the DTS channel bandwidth
- 3. RBW = 3kHz
- 4. VBW = 10kHz
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Trace was allowed to stabilize

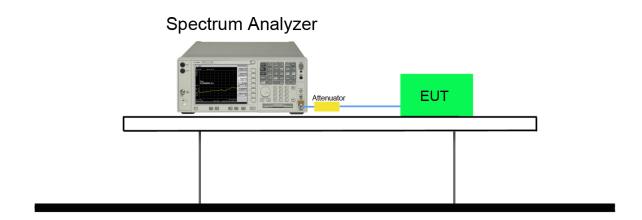
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# 7.4.4. Test Setup





## 7.4.5. Test Result

Test Mode	Data Rate	Channel	Freq.	Ant 0	Ant 1	Total	Limit	Result
	(Mbps)	No.	(MHz)	PSD	PSD	PSD (dBm	(dBm /	
	` ' '		, ,	(dBm /	(dBm /	/ 3kHz)	3kHz)	
				3kHz)	3kHz)			
Ant 0								
11b	1	1	2412	-4.34		-4.34	≤8	Pass
11b	1	6	2437	-4.85		-4.85	≤8	Pass
11b	1	11	2462	-4.02		-4.02	≤8	Pass
11g	6	1	2412	-7.82		-7.82	≤8	Pass
11g	6	6	2437	-6.79		-6.79	≤8	Pass
11g	6	11	2462	-7.23		-7.23	≤8	Pass
11n-HT20	6.5	1	2412	-8.67		-8.67	≤8	Pass
11n-HT20	6.5	6	2437	-8.62		-8.62	≤8	Pass
11n-HT20	6.5	11	2462	-7.90		-7.90	≤8	Pass
11n-HT40	13.5	3	2422	-10.56		-10.56	≤8	Pass
11n-HT40	13.5	6	2437	-11.88		-11.88	≤8	Pass
11n-HT40	13.5	9	2452	-11.41		-11.41	≤8	Pass
Ant 1								
11n-HT20	6.5	1	2412		-7.52	-7.52	≤8	Pass
11n-HT20	6.5	6	2437		-8.13	-8.13	≤8	Pass
11n-HT20	6.5	11	2462		-8.64	-8.64	≤8	Pass
11n-HT40	13.5	3	2422		-10.50	-10.50	≤8	Pass
11n-HT40	13.5	6	2437		-10.91	-10.91	≤8	Pass
11n-HT40	13.5	9	2452		-11.41	-11.41	≤8	Pass
Ant 0 + 1						'		
11n-HT20	6.5	1	2412	-8.08	-8.20	-5.13	≤8	Pass
11n-HT20	6.5	6	2437	-8.06	-8.54	-5.28	≤8	Pass
11n-HT20	6.5	11	2462	-7.53	-7.52	-4.52	≤8	Pass
11n-HT40	13.5	3	2422	-10.78	-10.44	-7.59	≤8	Pass
11n-HT40	13.5	6	2437	-9.93	-11.35	-7.57	≤8	Pass
11n-HT40	13.5	9	2452	-9.90	-11.745	-7.72	≤8	Pass





Test Mode	Data Rate	Channel	Freq.	Ant 0	Ant 1	Ant 2	Ant 3	Total	Limit	Result
rest wode	(Mbps)	No.	(MHz)	PSD	PSD	PSD	PSD	PSD	(dBm /	Result
	(IVIDP3)	140.	(1411 12)	(dBm /	(dBm /	(dBm /	(dBm /	(dBm /	3kHz)	
				3kHz)	3kHz)	3kHz)	3kHz)	3kHz)	OKI IZ)	
Ant 0 + 1 + 2 +	3, Non-Beam	n Forming		01.11.12)	O.u. 12)	O.u. 12)	O.u. 12)	0.t. 12)		
11a	6	149	5745	-5.48	-9.60	-9.19	-11.55	-2.34	≤8	Pass
11a	6	157	5785	-5.79	-10.59	-12.36	-11.66	-3.21	≤8	Pass
11a	6	165	5825	-7.82	-10.63	-12.14	-12.16	-4.28	≤8	Pass
11n-HT20	6.5	149	5745	-5.35	-9.13	-10.34	-10.03	-2.18	≤8	Pass
11n-HT20	6.5	157	5785	-6.27	-9.42	-10.53	-10.07	-2.70	≤8	Pass
11n-HT20	6.5	165	5825	-6.83	-8.78	-11.30	-10.41	-2.97	≤8	Pass
11ac-VHT20	6.5	149	5745	-6.05	-9.17	-10.70	-9.80	-2.52	≤8	Pass
11ac-VHT20	6.5	157	5785	-5.31	-8.95	-10.73	-10.41	-2.24	≤8	Pass
11ac-VHT20	6.5	165	5825	-7.05	-10.03	-11.71	-10.88	-3.51	≤8	Pass
11n-HT40	13.5	151	5755	-5.71	-11.19	-13.50	-12.05	-3.45	≤8	Pass
11n-HT40	13.5	159	5795	-5.83	-11.67	-13.32	-12.37	-3.62	≤8	Pass
11ac-VHT40	13.5	151	5755	-4.16	-10.17	-9.44	-11.37	-1.76	≤8	Pass
11ac-VHT40	13.5	159	5795	-5.98	-10.80	-12.97	-11.28	-3.37	≤8	Pass
11ac-VHT80	29.3	155	5775	-6.10	-13.60	-14.15	-15.81	-4.51	≤8	Pass
Ant 0 + 1 + 2 +	3, Beam For	ming								
11n-HT20	6.5	149	5745	-8.65	-14.68	-15.80	-15.91	-6.52	≤5.3	Pass
11n-HT20	6.5	157	5785	-11.46	-14.68	-15.95	-15.34	-7.96	≤5.3	Pass
11n-HT20	6.5	165	5825	-9.09	-13.25	-15.21	-14.87	-6.32	≤5.3	Pass
11ac-VHT20	6.5	149	5745	-10.98	-13.41	-15.98	-15.59	-7.49	≤5.3	Pass
11ac-VHT20	6.5	157	5785	-11.00	-14.67	-16.23	-16.78	-8.00	≤5.3	Pass
11ac-VHT20	6.5	165	5825	-11.14	-13.36	-15.24	-14.83	-7.31	≤5.3	Pass
11n-HT40	13.5	151	5755	-11.45	-14.18	-16.19	-18.34	-8.28	≤5.3	Pass
11n-HT40	13.5	159	5795	-11.01	-17.50	-17.24	-17.88	-8.79	≤5.3	Pass
11ac-VHT40	13.5	151	5755	-8.56	-12.79	-15.93	-17.12	-6.25	≤5.3	Pass
11ac-VHT40	13.5	159	5795	-8.68	-15.80	-18.15	-17.35	-7.09	≤5.3	Pass
11ac-VHT80	29.3	155	5775	-9.26	-16.04	-17.59	-21.60	-7.75	≤5.3	Pass





