



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Appendix E

Conducted RF Output Power

Measurement of RF conducted Power	
1	Conducted Power of WIFI
2	Conducted Power of Bluetooth

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1 Conducted Power of WIFI

Full:

WIFI 2.4G Full power		Frequency(MHz)	Data Rate(Mbps)	ANT2	Tune up	ANT3	Tune up	MIMO	Tune up
Mode	Channel			Average Power (dBm)		Average Power (dBm)		Average Power (dBm)	
802.11b	1	2412	1	11.35	12.00	10.52	11.00	/	/
	6	2437		11.78	12.00	10.28	11.00	/	/
	11	2462		11.43	12.00	10.25	11.00	/	/
802.11g	1	2412	6	12.12	13.00	12.29	13.00	/	/
	6	2437		12.23	13.00	12.45	13.00	/	/
	11	2462		12.15	13.00	12.38	13.00	/	/
802.11n HT20	1	2412	6.5	11.23	12.00	11.56	12.00	14.41	15.00
	6	2437		11.50	12.00	11.03	12.00	14.28	15.00
	11	2462		11.33	12.00	11.83	12.00	14.60	15.00
802.11ax HE20	1	2412	MCS0	10.03	11.00	10.56	11.00	13.31	14.00
	6	2437		10.39	11.00	10.34	11.00	13.38	14.00
	11	2462		10.06	11.00	10.48	11.00	13.29	14.00

WIFI 5G Full power		Channel	Frequency(MHz)	Data Rate(Mbps)	ANT2	Tune up	ANT3	Tune up	MIMO	Tune up
Mode	5GHz				Average Power (dBm)		Average Power (dBm)		Average Power (dBm)	
802.11a	U-NII-1	36	5180	6	15.27	16.00	14.59	15.00	/	/
		40	5200		15.09	16.00	14.55	15.00	/	/
		48	5240		14.99	16.00	14.51	15.00	/	/
	U-NII-2A	52	5260		15.28	16.00	14.57	15.00	/	/
		60	5300		15.40	16.00	14.67	15.00	/	/
		64	5320		15.28	16.00	14.45	15.00	/	/
	U-NII-2C	100	5500		12.22	13.00	11.68	12.00	/	/
		116	5580		12.44	13.00	11.87	12.00	/	/
		140	5700		12.12	13.00	11.77	12.00	/	/
	U-NII-3	149	5745		17.90	18.00	15.66	17.00	/	/
		157	5785		17.71	18.00	15.79	17.00	/	/
		165	5825		17.87	18.00	15.79	17.00	/	/
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11n-HT20	U-NII-1	36	5180	MCS0	14.84	15.00	13.14	14.00	17.08	18.00
		40	5200		14.80	15.00	13.28	14.00	17.12	18.00
		48	5240		14.62	15.00	13.28	14.00	17.01	18.00
	U-NII-2A	52	5260		14.61	15.00	13.20	14.00	16.97	18.00
		60	5300		14.71	15.00	13.57	14.00	17.19	18.00
		64	5320		14.34	15.00	13.35	14.00	16.88	18.00
	U-NII-2C	100	5500		11.88	12.00	10.68	11.00	14.33	15.00
		116	5580		11.68	12.00	10.75	11.00	14.25	15.00
		140	5700		11.91	12.00	10.70	11.00	14.36	15.00
	U-NII-3	149	5745		17.19	18.00	15.58	17.00	19.47	21.00
		157	5785		17.19	18.00	15.66	17.00	19.50	21.00
		165	5825		17.38	18.00	15.68	17.00	19.62	21.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11n-HT40	U-NII-1	38	5190	MCS0	13.35	14.00	11.36	12.00	15.48	17.00
		46	5230		13.39	14.00	11.54	12.00	15.57	17.00

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	U-NII-2A	54	5270		13.40	14.00	11.52	12.00	15.57	17.00
		62	5310		13.68	14.00	11.48	12.00	15.73	17.00
	U-NII-2C	102	5510		12.55	13.00	10.25	11.00	14.56	16.00
		110	5550		12.69	13.00	10.28	11.00	14.66	16.00
		134	5670		12.17	13.00	10.72	11.00	14.52	16.00
	U-NII-3	151	5755		17.55	18.00	16.50	17.00	20.07	21.00
		159	5795		17.77	18.00	16.84	17.00	20.34	21.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11ac VHT80	U-NII-1	42	5210	MCS0	12.73	13.00	10.40	11.00	14.73	16.00
	U-NII-2A	58	5290		13.34	14.00	11.25	12.00	15.43	17.00
	U-NII-2C	106	5530		11.60	12.00	9.67	10.00	13.75	15.00
		122	5610		11.54	12.00	9.59	10.00	13.68	15.00
	U-NII-3	155	5775		14.35	15.00	12.16	13.00	16.40	18.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11ax HEW20	U-NII-1	36	5180	MCS0	13.83	15.00	12.64	13.00	16.29	18.00
		40	5200		13.83	15.00	12.38	13.00	16.18	18.00
		48	5240		13.77	15.00	12.70	14.00	16.28	18.00
	U-NII-2A	52	5260		14.62	15.00	13.40	14.00	17.06	18.00
		60	5300		14.60	15.00	13.70	14.00	17.18	18.00
		64	5320		14.82	15.00	13.43	14.00	17.19	18.00
	U-NII-2C	100	5500		11.41	12.00	10.21	11.00	13.86	15.00
		116	5580		11.66	12.00	10.23	11.00	14.01	15.00
		140	5700		11.50	12.00	10.43	11.00	14.01	15.00
	U-NII-3	149	5745		16.50	17.00	14.76	16.00	18.73	20.00
		157	5785		16.81	17.00	14.85	16.00	18.95	20.00
		165	5825		16.59	17.00	14.71	16.00	18.76	20.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11ax HEW40	U-NII-1	38	5190	MCS0	11.46	12.00	9.33	10.00	13.53	15.00
		46	5230		11.54	12.00	9.42	10.00	13.62	15.00
	U-NII-2A	54	5270		12.39	13.00	10.27	11.00	14.47	16.00
		62	5310		12.51	13.00	10.49	11.00	14.63	16.00
	U-NII-2C	102	5510		10.31	11.00	8.34	9.00	12.45	14.00
		110	5550		10.50	11.00	8.40	9.00	12.59	14.00
		134	5670		10.64	11.00	8.40	9.00	12.67	14.00
	U-NII-3	151	5755		15.73	16.00	14.50	15.00	18.17	19.00
		159	5795		15.72	16.00	14.71	15.00	18.25	19.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11ax HEW80	U-NII-1	42	5210	MCS0	11.39	12.00	9.70	10.00	13.64	15.00
	U-NII-2A	58	5290		11.62	12.00	9.76	10.00	13.80	15.00
	U-NII-2C	106	5530		9.37	10.00	7.53	8.00	11.56	13.00
		122	5610		9.35	10.00	7.86	8.00	11.68	13.00
	U-NII-3	155	5775		14.18	15.00	12.31	13.00	16.36	18.00

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WIFI 5G Full power For Simultaneous				Data Rate(Mbps)	ANT2	Tune up	ANT3	Tune up	MIMO	Tune up
Mode	5GHz	Channel	Frequency(MHz)		Average Power (dBm)		Average Power (dBm)		Average Power (dBm)	
802.11a	U-NII-1	36	5180	6	15.17	16.00	14.62	15.00	/	/
		40	5200		15.05	16.00	14.56	15.00	/	/
		48	5240		15.12	16.00	14.55	15.00	/	/
	U-NII-2A	52	5260		15.33	16.00	14.62	15.00	/	/
		60	5300		15.23	16.00	14.63	15.00	/	/
		64	5320		15.25	16.00	14.47	15.00	/	/
	U-NII-2C	100	5500		12.32	13.00	11.77	12.00	/	/
		116	5580		12.43	13.00	11.80	12.00	/	/
		140	5700		12.20	13.00	11.74	12.00	/	/
	U-NII-3	149	5745		14.93	15.00	12.68	14.00	/	/
		157	5785		14.77	15.00	12.77	14.00	/	/
		165	5825		14.88	15.00	12.79	14.00	/	/
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11n-HT20	U-NII-1	36	5180	MCS0	14.89	15.00	13.22	14.00	17.15	18.00
		40	5200		14.79	15.00	13.27	14.00	17.11	18.00
		48	5240		14.66	15.00	13.42	14.00	17.09	18.00
	U-NII-2A	52	5260		14.64	15.00	13.21	14.00	16.99	18.00
		60	5300		14.71	15.00	13.56	14.00	17.18	18.00
		64	5320		14.46	15.00	13.32	14.00	16.94	18.00
	U-NII-2C	100	5500		11.83	12.00	10.63	11.00	14.28	15.00
		116	5580		11.68	12.00	10.78	11.00	14.26	15.00
		140	5700		11.80	12.00	10.72	11.00	14.30	15.00
	U-NII-3	149	5745		14.26	15.00	12.69	14.00	16.56	18.00
		157	5785		14.24	15.00	12.81	14.00	16.59	18.00
		165	5825		14.46	15.00	12.70	14.00	16.68	18.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11n-HT40	U-NII-1	38	5190	MCS0	13.42	14.00	11.45	12.00	15.56	17.00
		46	5230		13.25	14.00	11.58	12.00	15.51	17.00
	U-NII-2A	54	5270		13.38	14.00	11.49	12.00	15.55	17.00
		62	5310		13.72	14.00	11.50	12.00	15.76	17.00
	U-NII-2C	102	5510		12.47	13.00	10.27	11.00	14.52	16.00
		110	5550		12.69	13.00	10.36	11.00	14.69	16.00
		134	5670		12.26	13.00	10.72	11.00	14.57	16.00
	U-NII-3	151	5755		14.49	15.00	13.62	14.00	17.09	18.00
		159	5795		14.61	15.00	13.80	14.00	17.23	18.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11ac VHT80	U-NII-1	42	5210	MCS0	12.78	13.00	10.36	11.00	14.75	16.00
	U-NII-2A	58	5290		13.30	14.00	11.19	12.00	15.38	17.00
	U-NII-2C	106	5530		11.60	12.00	9.64	10.00	13.74	15.00
		122	5610		11.60	12.00	9.67	10.00	13.75	15.00
	U-NII-3	155	5775		11.42	12.00	9.30	10.00	13.50	15.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up



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802.11ax HEW20	U-NII-1	36	5180	MCS0	13.81	15.00	12.54	13.00	16.23	18.00
		40	5200		13.76	15.00	12.43	13.00	16.16	18.00
		48	5240		13.78	15.00	12.70	14.00	16.28	18.00
	U-NII-2A	52	5260		14.71	15.00	13.39	14.00	17.11	18.00
		60	5300		14.68	15.00	13.72	14.00	17.24	18.00
		64	5320		14.76	15.00	13.44	14.00	17.16	18.00
	U-NII-2C	100	5500		11.39	12.00	10.25	11.00	13.87	15.00
		116	5580		11.67	12.00	10.25	11.00	14.03	15.00
		140	5700		11.50	12.00	10.38	11.00	13.99	15.00
	U-NII-3	149	5745		16.51	17.00	14.78	16.00	18.74	20.00
		157	5785		13.55	14.00	11.79	13.00	15.77	17.00
		165	5825		13.59	14.00	11.66	13.00	15.74	17.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11ax HEW40	U-NII-1	38	5190	MCS0	11.33	12.00	9.41	10.00	13.49	15.00
		46	5230		11.55	12.00	9.50	10.00	13.66	15.00
	U-NII-2A	54	5270		12.44	13.00	10.28	11.00	14.50	16.00
		62	5310		12.39	13.00	10.44	11.00	14.53	16.00
	U-NII-2C	102	5510		10.40	11.00	8.30	9.00	12.49	14.00
		110	5550		10.56	11.00	8.36	9.00	12.61	14.00
		134	5670		10.68	11.00	8.35	9.00	12.68	14.00
	U-NII-3	151	5755		12.57	13.00	11.61	12.00	15.13	16.00
		159	5795		12.68	13.00	11.67	12.00	15.21	16.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11ax HEW80	U-NII-1	42	5210	MCS0	11.29	12.00	9.80	10.00	13.62	15.00
	U-NII-2A	58	5290		11.61	12.00	9.74	10.00	13.79	15.00
	U-NII-2C	106	5530		9.29	10.00	7.48	8.00	11.49	13.00
		122	5610		9.35	10.00	7.86	8.00	11.68	13.00
	U-NII-3	155	5775		11.35	12.00	9.42	10.00	13.50	15.00



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WIFI 6E Full power				ANT2		ANT3		MIMO	
mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11ax (HE20)	1	5955	MCS0	1.85	3	2.71	4	5.31	6.5
	97	6435		1.96	3	4.66	6	6.53	8
	117	6535		1.96	3	4.28	5.5	6.28	7.5
	189	6895		-3.15	-2	-3.39	-2	-0.26	1
	233	7115		-4.19	-3	-4.41	-3	-1.29	0
802.11ax (HE40)	3	5965	MCS0	5.12	6.5	5.65	7	8.40	9.5
	99	6445		4.71	6	7.46	8.5	9.31	10.5
	147	6685		4.38	5.5	6.64	8	8.67	10
	195	6925		7.43	8.5	9.87	11	11.83	13
	227	7085		7.28	8.5	10.01	11.5	11.87	13
802.11ax (HE80)	7	5985	MCS0	7.48	9	8.09	9	10.81	12
	103	6465		8.08	9	10.59	11	12.52	14
	151	6705		6.10	8	8.15	9	10.26	12
	199	6945		8.02	9	10.52	11	12.46	13
	215	7025		6.45	8	9.24	10	11.08	12

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Sensor on:

WIFI 5G Sensor on		Channel	Frequency(MHz)	Data Rate(Mbps)	ANT2	Tune up	ANT3	Tune up	MIMO	Tune up
Mode	5GHz				Average Power (dBm)		Average Power (dBm)		Average Power (dBm)	
802.11a	U-NII-1	36	5180	6	8.16	9.00	7.60	8.00	/	/
		40	5200		8.17	9.00	7.52	8.00	/	/
		48	5240		8.12	9.00	7.62	8.00	/	/
	U-NII-2A	52	5260		8.57	9.00	7.61	8.00	/	/
		60	5300		8.60	9.00	7.71	8.00	/	/
		64	5320		8.50	9.00	7.51	8.00	/	/
	U-NII-2C	100	5500		7.29	8.00	6.78	7.00	/	/
		116	5580		7.32	8.00	6.87	7.00	/	/
		140	5700		7.09	8.00	6.73	7.00	/	/
	U-NII-3	149	5745		6.93	7.00	4.61	6.00	/	/
		157	5785		6.71	7.00	4.91	6.00	/	/
		165	5825		6.98	7.00	4.92	6.00	/	/
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11n-HT20	U-NII-1	36	5180	MCS0	8.39	9.00	7.22	8.00	10.85	12.00
		40	5200		8.38	9.00	7.32	8.00	10.89	12.00
		48	5240		8.14	9.00	7.41	8.00	10.80	12.00
	U-NII-2A	52	5260		8.10	9.00	7.29	8.00	10.72	12.00
		60	5300		8.55	9.00	7.65	8.00	11.13	12.00
		64	5320		8.20	9.00	7.39	8.00	10.82	12.00
	U-NII-2C	100	5500		7.90	8.00	6.64	7.00	10.33	11.00
		116	5580		7.87	8.00	6.86	7.00	10.40	11.00
		140	5700		7.94	8.00	6.75	7.00	10.40	11.00
	U-NII-3	149	5745		6.29	7.00	4.75	6.00	8.60	10.00
		157	5785		6.21	7.00	4.74	6.00	8.55	10.00
		165	5825		6.39	7.00	4.67	6.00	8.62	10.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11n-HT40	U-NII-1	38	5190	MCS0	6.56	7.00	4.42	5.00	8.63	10.00
		46	5230		6.44	7.00	4.52	5.00	8.60	10.00
	U-NII-2A	54	5270		6.47	7.00	4.62	5.00	8.65	10.00
		62	5310		6.67	7.00	4.54	5.00	8.74	10.00
	U-NII-2C	102	5510		7.59	8.00	5.34	6.00	9.62	11.00
		110	5550		7.64	8.00	5.55	6.00	9.73	11.00
		134	5670		7.55	8.00	5.76	6.00	9.76	11.00
	U-NII-3	151	5755		6.58	7.00	5.59	6.00	9.12	10.00
		159	5795		6.73	7.00	5.67	6.00	9.24	10.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11ac VHT80	U-NII-1	42	5210	MCS0	6.73	7.00	4.35	5.00	8.71	10.00
	U-NII-2A	58	5290		6.39	7.00	4.40	5.00	8.52	10.00
	U-NII-2C	106	5530		6.63	7.00	4.62	5.00	8.75	10.00
		122	5610		6.61	7.00	4.65	5.00	8.75	10.00
	U-NII-3	155	5775		3.29	4.00	1.27	2.00	5.41	7.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up



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802.11ax HEW20	U-NII-1	36	5180	MCS0	6.95	8.00	5.72	6.00	9.39	11.00
		40	5200		6.86	8.00	5.43	6.00	9.21	11.00
		48	5240		6.69	8.00	5.64	7.00	9.21	11.00
	U-NII-2A	52	5260		7.71	8.00	6.46	7.00	10.14	11.00
		60	5300		7.67	8.00	6.81	7.00	10.27	11.00
		64	5320		7.75	8.00	6.45	7.00	10.16	11.00
	U-NII-2C	100	5500		7.37	8.00	6.18	7.00	9.83	11.00
		116	5580		7.72	8.00	6.19	7.00	10.03	11.00
		140	5700		7.51	8.00	6.48	7.00	10.04	11.00
	U-NII-3	149	5745		6.56	7.00	4.85	6.00	8.80	10.00
		157	5785		6.79	7.00	4.89	6.00	8.95	10.00
		165	5825		6.52	7.00	4.74	6.00	8.73	10.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11ax HEW40	U-NII-1	38	5190	MCS0	6.33	7.00	4.38	5.00	8.47	10.00
		46	5230		6.54	7.00	4.45	5.00	8.63	10.00
	U-NII-2A	54	5270		6.32	7.00	4.22	5.00	8.41	10.00
		62	5310		6.57	7.00	4.60	5.00	8.71	10.00
	U-NII-2C	102	5510		7.42	8.00	5.36	6.00	9.52	11.00
		110	5550		7.46	8.00	5.43	6.00	9.57	11.00
		134	5670		7.57	8.00	5.36	6.00	9.61	11.00
	U-NII-3	151	5755		6.82	7.00	5.59	6.00	9.26	10.00
		159	5795		6.75	7.00	5.74	6.00	9.28	10.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up	Average Power (dBm)	Tune up
802.11ax HEW80	U-NII-1	42	5210	MCS0	6.41	7.00	4.70	5.00	8.65	10.00
	U-NII-2A	58	5290		6.51	7.00	4.79	5.00	8.74	10.00
	U-NII-2C	106	5530		6.24	7.00	4.57	5.00	8.50	10.00
		122	5610		6.42	7.00	4.85	5.00	8.72	10.00
	U-NII-3	155	5775		3.33	4.00	1.43	2.00	5.49	7.00



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2 Conducted Power of Bluetooth

BT ANT2		Average Conducted Power(dBm)			Tune up
Band	Channel	0	39	78	
BT	GFSK	10.20	10.93	10.03	11.00
	$\pi/4$ DQPSK	6.89	7.70	6.39	8.00
	8DPSK	6.80	7.43	6.12	8.00
Band	Channel	0	19	39	Tune up
BLE 1M	GFSK	10.12	10.34	9.83	11.00
BLE 2M	GFSK	10.21	10.70	9.58	11.00