



Report No.: SUCR251000106501

Page: 1 of 12

Appendix E

Conducted RF Output Power

1 Conducted Power of WIFI and Bluetooth

1.1 Conducted Power of 2.4G WIFI

WIFI 2.4G Ant1					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	13.84	15.00
	6	2437		13.47	15.00
	11	2462		12.57	14.00
802.11g	1	2412	6	13.72	15.00
	6	2437		13.09	15.00
	11	2462		12.23	14.00
802.11n HT20	1	2412	6.5	11.08	12.00
	6	2437		10.25	12.00
	11	2462		9.34	11.00
802.11n HT40	3	2422	13.5	10.15	12.00
	6	2437		10.28	12.00
	9	2452		10.48	12.00

WIFI 2.4G Ant2					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	12.56	14.00
	6	2437		11.06	13.00
	11	2462		12.26	13.00
802.11g	1	2412	6	12.36	14.00
	6	2437		11.07	14.00
	11	2462		12.10	13.00
802.11n HT20	1	2412	6.5	9.56	11.00
	6	2437		7.88	11.00
	11	2462		8.97	10.00
802.11n HT40	3	2422	13.5	9.04	11.00
	6	2437		8.49	11.00
	9	2452		9.84	11.00

WIFI 2.4G MIMO					
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11b	1	2412	1	/	/
	6	2437		/	/
	11	2462		/	/
802.11g	1	2412	6	/	/
	6	2437		/	/
	11	2462		/	/
802.11n HT20	1	2412	6.5	13.40	14.00
	6	2437		12.24	14.00
	11	2462		12.17	14.00
802.11n HT40	3	2422	13.5	12.64	14.00
	6	2437		12.49	14.00
	9	2452		13.18	14.00

1.2 Conducted Power of 5G WIFI

WIFI 5G Ant1					
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-1	802.11a	36	5180	13.47	15.00
		40	5200	13.56	15.00
		48	5240	13.50	15.00
	802.11n HT20	36	5180	10.68	12.00
		40	5200	10.43	12.00
		48	5240	10.61	12.00
	802.11n HT40	38	5190	10.89	12.00
		46	5230	11.11	13.00
	802.11ac VHT20	36	5180	10.61	12.00
		40	5200	10.46	12.00
		48	5240	10.46	12.00
	802.11ac VHT40	38	5190	10.81	12.00
		46	5230	11.01	13.00
	802.11ac VHT80	42	5210	10.69	12.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-2A	802.11a	52	5260	13.77	15.00
		60	5300	13.99	15.00
		64	5320	13.09	15.00
	802.11n HT20	52	5260	10.61	12.00
		60	5300	10.84	12.00
		64	5320	10.81	12.00
	802.11n HT40	54	5270	11.11	12.00
		62	5310	11.04	12.00
	802.11ac VHT20	52	5260	10.53	12.00
		60	5300	10.78	12.00
		64	5320	10.94	12.00
	802.11ac VHT40	54	5270	11.17	12.00
		62	5310	10.94	12.00
	802.11ac VHT80	58	5290	11.23	13.00
	802.11ac VHT160	50	5250	10.95	12.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-2C	802.11a	100	5500	9.18	10.00
		104	5520	9.33	10.00
		108	5540	9.46	10.00
		112	5560	9.62	10.00
		116	5580	7.39	8.00
		120	5600	7.21	8.00
		124	5620	7.25	8.00
		128	5640	7.28	8.00

		132	5660	7.43	8.00
		136	5680	7.48	8.00
		140	5700	9.63	10.00
	802.11n HT20	100	5500	8.21	9.00
		104	5520	7.95	9.00
		108	5540	8.03	9.00
		112	5560	7.92	9.00
		116	5580	6.16	8.00
		120	5600	6.31	8.00
		124	5620	6.25	8.00
		128	5640	6.25	8.00
		132	5660	6.26	8.00
		136	5680	6.54	8.00
		140	5700	7.80	9.00
		102	5510	7.49	9.00
		110	5550	6.47	8.00
		118	5590	6.85	8.00
		126	5630	7.00	8.00
		134	5670	7.29	8.00
	802.11ac VHT20	100	5500	8.07	9.00
		104	5520	8.03	9.00
		108	5540	8.12	9.00
		112	5560	8.08	9.00
		116	5580	6.27	8.00
		120	5600	6.13	8.00
		124	5620	6.28	8.00
		128	5640	6.37	8.00
		132	5660	6.24	8.00
		136	5680	6.42	8.00
		140	5700	7.76	9.00
		102	5510	7.52	9.00
		110	5550	6.44	8.00
		118	5590	7.00	8.00
		126	5630	7.06	8.00
		134	5670	7.15	8.00
	802.11ac VHT40	106	5530	7.68	8.00
		122	5610	6.91	8.00
	802.11ac VHT80				
	802.11ac VHT160	114	5570	6.80	8.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-3	802.11a	149	5745	9.72	11.00
		153	5765	10.37	11.00
		157	5785	10.41	11.00
		161	5805	9.49	11.00
		165	5825	9.29	11.00
	802.11n HT20	149	5745	8.03	9.00
		153	5765	8.45	9.00
		157	5785	7.72	9.00
		161	5805	7.66	9.00



		165	5825	8.06	9.00
	802.11n HT40	151	5755	7.97	9.00
		159	5795	8.31	9.00
	802.11ac VHT20	149	5745	7.94	9.00
		153	5765	8.40	9.00
		157	5785	7.69	9.00
		161	5805	7.72	9.00
		165	5825	7.86	9.00
	802.11ac VHT40	151	5755	8.04	9.00
		159	5795	8.49	9.00
	802.11ac VHT80	155	5775	8.52	9.00

WIFI 5G Ant2					
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-1	802.11a	36	5180	12.96	14.00
		40	5200	13.32	14.00
		48	5240	13.10	14.00
	802.11n HT20	36	5180	9.79	11.00
		40	5200	10.04	11.00
		48	5240	10.25	11.00
	802.11n HT40	38	5190	10.18	12.00
		46	5230	10.65	12.00
	802.11ac VHT20	36	5180	9.80	11.00
		40	5200	10.07	11.00
		48	5240	10.35	11.00
	802.11ac VHT40	38	5190	10.35	12.00
		46	5230	10.62	12.00
	802.11ac VHT80	42	5210	10.11	11.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-2A	802.11a	52	5260	13.34	14.00
		60	5300	13.77	14.00
		64	5320	13.06	14.00
	802.11n HT20	52	5260	10.24	11.00
		60	5300	10.38	11.00
		64	5320	10.58	11.00
	802.11n HT40	54	5270	10.75	11.00
		62	5310	10.63	11.00
	802.11ac VHT20	52	5260	10.06	11.00
		60	5300	10.57	11.00
		64	5320	10.78	11.00
	802.11ac VHT40	54	5270	10.55	11.00
		62	5310	10.74	11.00
	802.11ac VHT80	58	5290	10.66	11.00
	802.11ac VHT160	50	5250	9.95	11.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-2C	802.11a	100	5500	13.52	14.00
		104	5520	13.54	14.00
		108	5540	13.58	14.00
		112	5560	13.42	14.00
		116	5580	13.30	14.00
		120	5600	13.34	14.00
		124	5620	13.53	14.00
		128	5640	13.64	14.00
		132	5660	13.59	14.00
		136	5680	13.54	14.00
		140	5700	13.68	14.00

	802.11n HT20	100	5500	12.42	13.00
		104	5520	12.57	13.00
		108	5540	12.29	13.00
		112	5560	12.26	13.00
		116	5580	11.86	13.00
		120	5600	11.78	13.00
		124	5620	11.75	13.00
		128	5640	11.90	13.00
		132	5660	12.19	13.00
		136	5680	12.11	13.00
		140	5700	11.08	13.00
	802.11n HT40	102	5510	12.00	13.00
		110	5550	12.40	13.00
		118	5590	12.91	13.00
		126	5630	12.47	13.00
		134	5670	12.45	13.00
	802.11ac VHT20	100	5500	12.33	13.00
		104	5520	12.49	13.00
		108	5540	12.40	13.00
		112	5560	12.43	13.00
		116	5580	12.02	13.00
		120	5600	11.89	13.00
		124	5620	11.85	13.00
		128	5640	11.84	13.00
		132	5660	12.03	13.00
		136	5680	12.21	13.00
		140	5700	11.26	12.00
	802.11ac VHT40	102	5510	12.16	13.00
		110	5550	12.23	13.00
		118	5590	12.76	13.00
		126	5630	12.67	13.00
		134	5670	12.58	13.00
	802.11ac VHT80	106	5530	12.65	13.00
		122	5610	12.80	13.00
	802.11ac VHT160	114	5570	12.62	13.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-3	802.11a	149	5745	13.26	15.00
		153	5765	13.50	15.00
		157	5785	13.60	15.00
		161	5805	14.02	15.00
		165	5825	14.06	15.00
	802.11n HT20	149	5745	11.56	13.00
		153	5765	12.08	13.00
		157	5785	12.34	13.00
		161	5805	12.70	13.00
		165	5825	12.37	14.00
	802.11n HT40	151	5755	11.78	13.00
		159	5795	11.72	13.00



	802.11ac VHT20	149	5745	11.64	13.00
		153	5765	11.95	13.00
		157	5785	12.43	13.00
		161	5805	12.59	14.00
		165	5825	12.47	14.00
	802.11ac VHT40	151	5755	11.63	13.00
		159	5795	11.87	13.00
	802.11ac VHT80	155	5775	11.78	13.00

WIFI 5G MIMO					
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-1	802.11a	36	5180	/	/
		40	5200	/	/
		48	5240	/	/
	802.11n HT20	36	5180	13.27	15.00
		40	5200	13.25	15.00
		48	5240	13.44	15.00
	802.11n HT40	38	5190	13.56	15.00
		46	5230	13.90	15.00
	802.11ac VHT20	36	5180	13.23	15.00
		40	5200	13.28	15.00
		48	5240	13.42	15.00
	802.11ac VHT40	38	5190	13.60	15.00
		46	5230	13.83	15.00
	802.11ac VHT80	42	5210	13.42	15.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz U-NII-2A	802.11a	52	5260	/	/
		60	5300	/	/
		64	5320	/	/
	802.11n HT20	52	5260	13.44	15.00
		60	5300	13.63	15.00
		64	5320	13.71	15.00
	802.11n HT40	54	5270	13.94	15.00
		62	5310	13.85	15.00
	802.11ac VHT20	52	5260	13.31	15.00
		60	5300	13.69	15.00
		64	5320	13.87	15.00
	802.11ac VHT40	54	5270	13.88	15.00
		62	5310	13.85	15.00
	802.11ac VHT80	58	5290	13.96	15.00
	802.11ac VHT160	50	5250	13.49	15.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-2C	802.11a	100	5500	/	/
		104	5520	/	/
		108	5540	/	/
		112	5560	/	/
		116	5580	/	/
		120	5600	/	/
		124	5620	/	/
		128	5640	/	/
		132	5660	/	/
		136	5680	/	/
		140	5700	/	/

	802.11n HT20	100	5500	13.82	14.00
		104	5520	13.86	14.00
		108	5540	13.67	14.00
		112	5560	13.62	14.00
		116	5580	12.90	14.00
		120	5600	12.86	14.00
		124	5620	12.83	14.00
		128	5640	12.95	14.00
		132	5660	13.18	14.00
		136	5680	13.17	14.00
		140	5700	12.75	14.00
	802.11n HT40	102	5510	13.32	14.00
		110	5550	13.39	14.00
		118	5590	13.87	14.00
		126	5630	13.55	14.00
		134	5670	13.61	14.00
	802.11ac VHT20	100	5500	13.71	14.00
		104	5520	13.82	14.00
		108	5540	13.78	14.00
		112	5560	13.79	14.00
		116	5580	13.04	14.00
		120	5600	12.91	14.00
		124	5620	12.91	14.00
		128	5640	12.92	14.00
		132	5660	13.05	14.00
		136	5680	13.23	14.00
		140	5700	12.86	14.00
	802.11ac VHT40	102	5510	13.44	14.00
		110	5550	13.25	14.00
		118	5590	13.78	14.00
		126	5630	13.72	14.00
		134	5670	13.67	14.00
	802.11ac VHT80	106	5530	13.85	14.00
		122	5610	13.80	14.00
	802.11ac VHT160	114	5570	13.63	14.00
5GHz		Channel	Frequency(MHz)	Average Power (dBm)	Tune up
5GHz UNII-3	802.11a	149	5745	/	/
		153	5765	/	/
		157	5785	/	/
		161	5805	/	/
		165	5825	/	/
	802.11n HT20	149	5745	13.15	14.00
		153	5765	13.64	15.00
		157	5785	13.63	15.00
		161	5805	13.88	15.00
		165	5825	13.74	15.00
	802.11n HT40	151	5755	13.29	14.00
		159	5795	13.35	15.00



	802.11ac VHT20	149	5745	13.18	14.00
		153	5765	13.54	15.00
		157	5785	13.69	15.00
		161	5805	13.81	15.00
		165	5825	13.76	15.00
	802.11ac VHT40	151	5755	13.21	14.00
		159	5795	13.51	15.00
	802.11ac VHT80	155	5775	13.46	15.00

1.3 Conducted Power of Bluetooth

BT Ant 1		Average Conducted Power(dBm)			Tune up
Band	Channel	0	39	78	
BT	GFSK	6.25	6.97	5.36	7.00
	$\pi/4$ DQPSK	4.83	5.52	4.03	6.00
	8DPSK	5.36	5.96	4.57	6.00
Band	Channel	0	19	39	Tune up
BLE 1M	GFSK	6.07	6.73	5.29	7.00
BLE 2M	GFSK	6.05	6.69	5.27	7.00

- End of the Appendix -