



2.4GHz WLAN		Ant 1+2 Full Power & Handheld				
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	22.98	23.00	100
		6	2437	21.98	23.00	
		11	2462	21.73	23.00	
	802.11g 6Mbps	1	2412	19.33	20.00	98.28
		6	2437	20.83	22.00	
		11	2462	18.24	19.50	
802.11n-HT20 MCS9	1	2412	18.47	19.50	98.16	
		6	2437	20.82		22.00
		11	2462	18.29		19.50

2.4GHz WLAN		Ant 1+2 For Head(Rec on)					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	19.96	20.00	17.50	100
		6	2437	19.56	20.00	17.00	
		11	2462	19.37	20.00	17.00	
		1	2412		20.00		
		6	2437		20.00		
		11	2462		19.50		
	802.11g 6Mbps	1	2412		20.00		98.28
		6	2437		20.00		
		11	2462		19.50		
		1	2412		19.50		
		6	2437		20.00		
		11	2462		19.50		
802.11n-HT20 MCS9	1	2412		19.50		98.16	
		6	2437		20.00		
		11	2462		19.50		

2.4GHz WLAN		Ant 1+2 For Body-worn&Hotspot					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
2.4GHz WLAN	802.11b 1Mbps	1	2412	18.84	19.50	100	
		6	2437	18.11	19.50		
		11	2462	18.10	19.50		
		1	2412		19.50		
		6	2437		19.50		
		11	2462		19.50		
	802.11g 6Mbps	1	2412		19.50	98.28	
		6	2437		19.50		
		11	2462		19.50		
		1	2412		19.50		
		6	2437		19.50		
		11	2462		19.50		
802.11n-HT20 MCS9	1	2412		19.50	98.16		
		6	2437			19.50	
		11	2462			19.50	

5GHz WLAN		Ant 1+2 Full Power & Handheld & Head					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.73	19.50	98.62	
		40	5200	19.98	21.00		
		44	5220	20.15	21.00		
		48	5240	20.09	21.00		
		36	5180	18.57	19.50		
		40	5200	19.74	21.00		
	802.11n-HT20 MCS9	44	5220	19.88	21.00	97.79	
		48	5240	19.87	21.00		
		38	5190	12.96	14.00		96.32
		46	5230	18.17	19.00		
		36	5180	18.46	19.50		
		40	5200	19.48	21.00		
44	5220	19.50	21.00				
802.11ac-VHT20 MCS9	48	5240	19.40	21.00	98.89		
	38	5190	13.00	14.00			
	46	5230	19.12	20.00			
	42	5210	12.52	14.00		93.06	

5GHz WLAN		Ant 1+2 For Body-worn&Hotspot					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
5.2GHz WLAN	802.11a 6Mbps	36	5180	13.45	14.00	98.62	
		40	5200	13.42	14.00		
		44	5220	13.59	14.00		
		48	5240	13.56	14.00		
		36	5180		14.00		
		40	5200		14.00		
	802.11n-HT20 MCS9	44	5220		14.00	97.79	
		48	5240		14.00		
		38	5190		13.50		96.32
		46	5230		13.50		
		36	5180		14.00		
		40	5200		14.00		
802.11ac-VHT20 MCS9	44	5220		14.00	98.89		
	48	5240		14.00			
	38	5190		13.50		96.49	
	46	5230		13.50			
	42	5210		13.50			

5GHz WLAN		Ant 1+2 Full Power & Handheld & Head					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
5.3GHz WLAN	802.11a 6Mbps	52	5260	20.19	21.00	98.62	
		56	5280	20.20	21.00		
		60	5300	20.22	21.00		
		64	5320	20.10	21.00		
		52	5260	19.72	21.00		
		56	5280	19.90	21.00		
	802.11n-HT20 MCS9	60	5300	19.97	21.00	97.79	
		64	5320	19.99	21.00		
		54	5270	17.96	19.00		96.32
		62	5310	13.28	14.00		
		52	5260	19.27	21.00		
		56	5280	19.50	21.00		
802.11ac-VHT20 MCS9	60	5300	19.63	21.00	98.89		
	64	5320	19.47	21.00			
	54	5270	18.66	19.00		96.49	
	62	5310	13.29	14.00			
	58	5290	13.62	14.00			

5GHz WLAN		Ant 1+2 For Body-worn					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
5.3GHz WLAN	802.11a 6Mbps	52	5260	14.13	14.50	98.62	
		56	5280	14.17	14.50		
		60	5300	14.18	14.50		
		64	5320	14.14	14.50		
		52	5260		14.50		
		56	5280		14.50		
	802.11n-HT20 MCS9	60	5300		14.50	97.79	
		64	5320		14.50		
		54	5270		14.00		96.32
		62	5310		14.00		
		52	5260		14.50		
		56	5280		14.50		
802.11ac-VHT20 MCS9	60	5300		14.50	98.89		
	64	5320		14.50			
	54	5270		14.00		96.49	
	62	5310		14.00			
	58	5290		14.00			

5GHz WLAN		Ant 1+2 Full Power & Handheld & Head					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
5.5GHz WLAN	802.11a 6Mbps	100	5500	19.28	21.00	98.62	
		116	5580	19.77	21.00		
		124	5620	19.60	21.00		
		132	5660	19.78	21.00		
		140	5700	19.77	21.00		
		100	5500	19.00	21.00		
	802.11n-HT20 MCS9	116	5580	19.44	21.00	97.79	
		124	5620	19.35	21.00		
		132	5660	19.48	21.00		
		140	5700	17.50	19.00		96.32
		102	5510	15.21	16.00		
		110	5550	18.16	19.00		
802.11ac-VHT20 MCS9	126	5630	18.21	19.00	98.89		
	134	5670	18.24	19.00			
	100	5500	18.98	21.00			
	116	5580	19.32	21.00			
	124	5620	19.38	21.00			
	132	5660	19.52	21.00			
802.11ac-VHT40 MCS9	140	5700	17.46	19.00	96.49		
	102	5510	15.24	16.00			
	110	5550	19.09	20.00			
	126	5630	19.25	20.00			
	134	5670	19.19	20.00			
	106	5530	13.13	13.00			

5GHz WLAN		Ant 1+2 For Body-worn					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
5.5GHz WLAN	802.11a 6Mbps	100	5500	12.89	13.50	98.62	
		116	5580	13.00	13.50		
		124	5620	12.91	13.50		
		132	5660	13.14	13.50		
		140	5700	12.98	13.50		
		100	5500		13.50		
	802.11n-HT20 MCS9	116	5580		13.50	97.79	
		124	5620		13.50		
		132	5660		13.50		
		140	5700		13.50		
		102	5510		13.00		96.32
		110	5550		13.00		
802.11ac-VHT20 MCS9	126	5630		13.00	98.89		
	134	5670		13.00			
	100	5500		13.50			
	116	5580		13.50			
	124	5620		13.50			
	132	5660		13.50			
802.11ac-VHT40 MCS9	140	5700		13.50	96.49		
	102	5510		13.00			
	110	5550		13.00			
	126	5630		13.00			
	134	5670		13.00			
	106	5530		13.00			

5GHz WLAN		Ant 1+2 Full Power & Handheld & Head					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.89	22.00	98.62	
		157	5785	20.81	22.00		
		165	5825	21.48	22.00		
		149	5745	19.34	21.00		
		157	5785	19.13	21.00		
		165	5825	20.13	21.00		
	802.11n-HT20 MCS9	151	5755	18.46	20.00	96.32	
		159	5795	18.57	20.00		
		149	5745	19.37	21.00		96.48
		157	5785	19.10	21.00		
		155	5825	20.14	21.00		
		151	5755	19.44	21.00		
802.11ac-VHT20 MCS9	159	5795	19.56	21.00	96.49		
	155	5825	19.36	21.00			

5GHz WLAN		Ant 1+2 For Body-worn&Hotspot					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
5.8GHz WLAN	802.11a 6Mbps	149	5745	17.05	18.00	98.62	
		157	5785	17.04	18.00		
		165	5825	17.26	18.00		
		149	5745		18.00		
		157	5785		18.00		
		165	5825		18.00		
	802.11n-HT20 MCS9	151	5755		17.50	97.79	
		159	5795		17.50		
		149	5745		18.00		98.32
		157	5785		18.00		
		155	5825		18.00		
		151	5755		17.50		
802.11ac-VHT20 MCS9	159	5795		18.00	96.48		
	155	5825		18.00			
	151	5755		17.50		96.49	
	159	5795		17.50			
	155	5825		17.50			

BR / EDR		Average power (dBm)			
Mode	Channel	Frequency (MHz)	1Mbps	2Mbps	3Mbps
BR / EDR	CH 39	2602	10.36	7.46	7.58
		2441	10.87	8.06	8.26
		2480	10.72	8.08	8.25
		Tune-Up Limit		12	

LE v4.0		Average power (dBm)			
Mode	Channel	Frequency (MHz)	1E	2E	3E
LE	CH 39	2602	4.81		
		2440	5.28		
		2480	5.69		



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.

Page 28/30										
Year	Month	Day	Hour	Minute	Second	Third	Fourth	Fifth	Sixth	Seventh
2019	1	1	00	00	00					
2019	1	2	00	00	00					
2019	1	3	00	00	00					
2019	1	4	00	00	00					
2019	1	5	00	00	00					
2019	1	6	00	00	00					
2019	1	7	00	00	00					
2019	1	8	00	00	00					
2019	1	9	00	00	00					
2019	1	10	00	00	00					
2019	1	11	00	00	00					
2019	1	12	00	00	00					
2019	1	13	00	00	00					
2019	1	14	00	00	00					
2019	1	15	00	00	00					
2019	1	16	00	00	00					
2019	1	17	00	00	00					
2019	1	18	00	00	00					
2019	1	19	00	00	00					
2019	1	20	00	00	00					
2019	1	21	00	00	00					
2019	1	22	00	00	00					
2019	1	23	00	00	00					
2019	1	24	00	00	00					
2019	1	25	00	00	00					
2019	1	26	00	00	00					
2019	1	27	00	00	00					
2019	1	28	00	00	00					
2019	1	29	00	00	00					
2019	1	30	00	00	00					
2019	2	1	00	00	00					
2019	2	2	00	00	00					
2019	2	3	00	00	00					
2019	2	4	00	00	00					
2019	2	5	00	00	00					
2019	2	6	00	00	00					
2019	2	7	00	00	00					
2019	2	8	00	00	00					
2019	2	9	00	00	00					
2019	2	10	00	00	00					
2019	2	11	00	00	00					
2019	2	12	00	00	00					
2019	2	13	00	00	00					
2019	2	14	00	00	00					
2019	2	15	00	00	00					
2019	2	16	00	00	00					
2019	2	17	00	00	00					
2019	2	18	00	00	00					
2019	2	19	00	00	00					
2019	2	20	00	00	00					
2019	2	21	00	00	00					
2019	2	22	00	00	00					
2019	2	23	00	00	00					
2019	2	24	00	00	00					
2019	2	25	00	00	00					
2019	2	26	00	00	00					
2019	2	27	00	00	00					
2019	2	28	00	00	00					
2019	2	29	00	00	00					
2019	2	30	00	00	00					
2019	3	1	00	00	00					
2019	3	2	00	00	00					
2019	3	3	00	00	00					
2019	3	4	00	00	00					
2019	3	5	00	00	00					
2019	3	6	00	00	00					
2019	3	7	00	00	00					
2019	3	8	00	00	00					
2019	3	9	00	00	00					
2019	3	10	00	00	00					
2019	3	11	00	00	00					
2019	3	12	00	00	00					
2019	3	13	00	00	00					
2019	3	14	00	00	00					
2019	3	15	00	00	00					
2019	3	16	00	00	00					
2019	3	17	00	00	00					
2019	3	18	00	00	00					
2019	3	19	00	00	00					
2019	3	20	00	00	00					
2019	3	21	00	00	00					
2019	3	22	00	00	00					
2019	3	23	00	00	00					
2019	3	24	00	00	00					
2019	3	25	00	00	00					
2019	3	26	00	00	00					
2019	3	27	00	00	00					
2019	3	28	00	00	00					
2019	3	29	00	00	00					
2019	3	30	00	00	00					
2019	3	31	00	00	00					
2019	4	1	00	00	00					
2019	4	2	00	00	00					
2019	4	3	00	00	00					
2019	4	4	00	00	00					
2019	4	5	00	00	00					
2019	4	6	00	00	00					
2019	4	7	00	00	00					
2019	4	8	00	00	00					
2019	4	9	00	00	00					
2019	4	10	00	00	00					
2019	4	11	00	00	00					
2019	4	12	00	00	00					
2019	4	13	00	00	00					
2019	4	14	00	00	00					
2019	4	15	00	00	00					
2019	4	16	00	00	00					
2019	4	17	00	00	00					
2019	4	18	00	00	00					
2019	4	19	00	00	00					
2019	4	20	00	00	00					
2019	4	21	00	00	00					
2019	4	22	00	00	00					
2019	4	23	00	00	00					
2019	4	24	00	00	00					
2019	4	25	00	00	00					
2019	4	26	00	00	00					
2019	4	27	00	00	00					
2019	4	28	00	00	00					
2019	4	29	00	00	00					
2019	4	30	00	00	00					
2019	4	31	00	00	00					
2019	5	1	00	00	00					
2019	5	2	00	00	00					
2019	5	3	00	00	00					
2019	5	4	00	00	00					
2019	5	5	00	00	00					
2019	5	6	00	00	00					
2019	5	7	00	00	00					
2019	5	8	00	00	00					
2019	5	9	00	00	00					
2019	5	10	00	00	00					
2019	5	11	00	00	00					
2019	5	12	00	00	00					
2019	5	13	00	00	00					
2019	5	14	00	00	00					
2019	5	15	00	00	00					
2019	5	16	00	00	00					
2019	5	17	00	00	00					
2019	5	18	00	00	00					
2019	5	19	00	00	00					
2019	5	20	00	00	00					
2019	5	21	00	00	00					
2019	5	22	00	00	00					
2019	5	23	00	00	00					
2019	5	24	00	00	00					
2019	5	25	00	00	00					
2019	5	26	00	00	00					
2019	5	27	00	00	00					
2019	5	28	00	00	00					
2019	5	29	00	00	00					
2019	5	30	00	00	00					
2019	5	31	00	00	00					
2019	6	1	00	00	00					
2019	6	2	00	00	00					
2019	6	3	00	00	00					
2019	6	4	00	00	00					
2019	6	5	00	00	00					
2019	6	6	00	00	00					
2019	6	7	00	00	00					
2019	6	8	00	00	00					
2019	6	9	00	00	00					
2019	6	10	00	00	00					
2019	6	11	00	00	00					
2019	6	12	00	00	00					
2019	6	13	00	00	00					
2019	6	14	00	00	00					
2019	6	15	00	00	00					
2019	6	16	00	00	00					
2019	6	17	00	00	00					
2019	6	18	00	00	00					
2019	6	19	00	00	00					
2019	6	20	00	00	00					
2019	6	21	00	00	00					
2019	6	22	00	00	00					
2019	6	23	00	00	00					
2019	6	24	00	00	00					
2019	6	25	00	00	00					
2019	6	26	00	00	00					
2019	6	27	00	00	00					
2019	6	28	00	00	00					

