

Reduced Power Mode for P-Sensor On

Band 38(only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37650	38000	38150	2580	2595	2610	
Frequency (MHz)										
20	QPSK	1	0	19.53	19.87	19.93	21.5	0		
20	QPSK	1	49	19.68	19.88	19.63				
20	QPSK	1	99	19.58	19.96	19.96				
20	QPSK	50	0	19.83	20.04	19.68	21.5	0		
20	QPSK	50	24	19.66	19.98	19.77				
20	QPSK	50	50	19.93	20.05	19.71				
20	QPSK	100	0	19.67	20.10	19.72	21.5	0		
20	16QAM	1	0	19.66	20.06	19.78				
20	16QAM	1	49	19.74	20.24	19.91				
20	16QAM	1	99	19.83	20.17	19.89	21.5	0		
20	16QAM	50	0	19.72	20.04	19.96				
20	16QAM	50	24	19.70	20.11	19.79				
20	16QAM	50	50	19.87	20.12	19.71	21.5	0		
20	16QAM	100	0	19.79	20.13	19.78				
20	64QAM	1	0	19.84	19.72	19.96				
20	64QAM	1	49	19.65	19.82	19.80	21.5	0		
20	64QAM	1	99	19.83	19.98	19.97				
20	64QAM	50	0	19.74	20.09	19.88				
20	64QAM	50	24	19.78	20.14	19.82	21.5	0		
20	64QAM	50	50	19.83	20.12	19.72				
20	64QAM	100	0	19.64	20.12	19.78				
Channel				37625	38000	38175	2577.5	2595	2612.5	
Frequency (MHz)										
15	QPSK	1	0	19.68	19.84	19.65	21.5	0		
15	QPSK	1	37	19.71	19.77	19.89				
15	QPSK	1	74	19.82	19.57	19.78				
15	QPSK	36	0	19.90	19.95	19.95	21.5	0		
15	QPSK	36	20	19.88	19.78	19.78				
15	QPSK	36	39	19.92	19.74	20.05				
15	QPSK	75	0	19.93	19.76	19.68	21.5	0		
15	16QAM	1	0	19.88	19.91	19.98				
15	16QAM	1	37	19.78	19.80	19.86				
15	16QAM	1	74	19.74	19.75	19.95	21.5	0		
15	16QAM	36	0	19.89	19.94	19.84				
15	16QAM	36	20	19.89	19.79	19.82				
15	16QAM	36	39	19.90	19.86	19.99	21.5	0		
15	16QAM	75	0	19.93	19.92	19.91				
15	64QAM	1	0	19.72	19.92	19.96				
15	64QAM	1	37	19.73	19.90	19.77	21.5	0		
15	64QAM	1	74	19.94	19.69	19.95				
15	64QAM	36	0	19.89	19.95	19.76				
15	64QAM	36	20	19.92	19.80	19.74	21.5	0		
15	64QAM	36	39	19.88	19.73	19.95				
15	64QAM	75	0	19.92	19.79	19.76				
Channel				37990	38000	38200	2575	2595	2615	
Frequency (MHz)										
10	QPSK	1	0	19.68	19.89	19.87	21.5	0		
10	QPSK	1	25	19.69	19.91	19.61				
10	QPSK	1	49	19.82	20.03	19.57				
10	QPSK	25	0	19.78	20.10	19.66	21.5	0		
10	QPSK	25	12	19.84	20.09	19.68				
10	QPSK	25	25	19.83	20.12	19.73				
10	QPSK	50	0	19.84	20.13	19.80	21.5	0		
10	16QAM	1	0	19.77	20.10	19.88				
10	16QAM	1	25	19.74	19.98	19.82				
10	16QAM	1	49	19.88	19.96	19.80	21.5	0		
10	16QAM	25	0	19.74	20.11	19.80				
10	16QAM	25	12	19.80	20.10	19.84				
10	16QAM	25	25	19.82	20.10	19.71	21.5	0		
10	16QAM	50	0	19.87	20.16	19.76				
10	64QAM	1	0	19.66	19.94	19.84				
10	64QAM	1	25	19.64	19.94	19.81	21.5	0		
10	64QAM	1	49	19.77	20.05	19.84				
10	64QAM	25	0	19.78	20.12	19.68				
10	64QAM	25	12	19.85	20.13	19.68	21.5	0		
10	64QAM	25	25	19.87	20.11	19.74				
10	64QAM	50	0	19.85	20.10	19.62				
Channel				37775	38000	38225	2572.5	2595	2617.5	
Frequency (MHz)										
5	QPSK	1	0	19.73	19.89	19.85	21.5	0		
5	QPSK	1	12	19.78	19.63	19.88				
5	QPSK	1	24	19.67	19.60	19.99				
5	QPSK	12	0	19.96	19.58	19.85	21.5	0		
5	QPSK	12	7	19.95	19.70	20.02				
5	QPSK	12	13	19.98	19.75	20.02				
5	QPSK	25	0	19.99	19.62	20.03	21.5	0		
5	16QAM	1	0	19.95	19.90	19.94				
5	16QAM	1	12	19.62	19.85	19.91				
5	16QAM	1	24	19.81	19.84	20.06	21.5	0		
5	16QAM	12	0	19.96	19.83	19.92				
5	16QAM	12	7	19.94	19.68	19.99				
5	16QAM	12	13	19.95	19.73	20.00	21.5	0		
5	16QAM	25	0	20.00	19.66	20.04				
5	64QAM	1	0	19.78	19.87	19.83				
5	64QAM	1	12	19.80	19.63	19.82	21.5	0		
5	64QAM	1	24	20.01	19.87	19.96				
5	64QAM	12	0	19.96	19.58	19.96				
5	64QAM	12	7	19.98	19.70	20.04	21.5	0		
5	64QAM	12	13	19.95	19.76	20.04				
5	64QAM	25	0	19.97	19.64	20.02				

Band 41 (2.6G Band)														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Low Middle Ch / Freq.	Power Middle Ch / Freq.	Power High Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel				39750	40185	40620	41055	41490	2506	2549.5	2593	2636.5	2680	
Frequency (MHz)														
20	QPSK	1	0	20.19	19.99	20.04	19.74	19.96	21.5	0				
20	QPSK	1	49	20.05	20.00	20.07	19.89	19.89						
20	QPSK	1	99	20.04	20.08	20.13	19.79	19.89						
20	QPSK	50	0	20.30	20.16	20.10	20.04	20.07	21.5	0				
20	QPSK	50	24	20.31	20.10	20.15	19.87	19.90						
20	QPSK	50	50	20.24	20.17	20.20	20.14	19.86						
20	QPSK	100	0	20.24	20.22	20.27	19.77	19.88	21.5	0				
20	16QAM	1	0	20.32	20.18	20.37	20.07	20.03						
20	16QAM	1	49	20.28	20.36	20.03	19.95	19.92						
20	16QAM	1	99	20.35	20.29	20.08	20.04	19.87	21.5	0				
20	16QAM	50	0	20.33	20.16	20.11	19.93	20.06						
20	16QAM	50	24	20.22	20.23	20.35	19.91	19.91						
20	16QAM	50	50	20.30	20.24	20.21	20.08	19.98	21.5	0				
20	16QAM	100	0	20.33	20.25	20.34	20.00	20.04						
20	64QAM	1	0	20.26	19.84	20.05	20.05	20.04						
20	64QAM	1	49	20.10	19.94	19.85	19.86	20.02	21.5	0				
20	64QAM	1	99	20.08	20.10	19.96	20.04	19.81						
20	64QAM	50	0	20.09	20.21	20.01	19.85	20.07						
20	64QAM	50	24	20.21	20.26	20.10	19.83	19.92	21.5	0				
20	64QAM	50	50	20.15	20.24	20.16	20.04	19.85						
20	64QAM	100	0	20.08	20.24	20.17	19.85	19.91						
Channel				39725	40173	40620	41056	41515	2503.5	2548.9	2593	2637.8	2682.5	
Frequency (MHz)														
15	QPSK	1	0	20.00	20.01	20.01	20.02	20.06	21.5	0				
15	QPSK	1	37	20.02	20.03	19.95	19.72	19.80						
15	QPSK	1	74	20.13	20.15	20.13	20.05	19.77						
15	QPSK	36	0	20.09	20.22	20.08	19.77	19.75	21.5	0				
15	QPSK	36	20	20.16	20.21	20.15	19.86	19.87						
15	QPSK	36	39	20.16	20.24	20.13	19.80	19.92						
15	QPSK	75	0	20.17	20.25	20.16	19.81	19.80	21.5	0				
15	16QAM	1	0	20.08	20.22	20.10	19.87	20.09						
15	16QAM	1	37	20.06	20.10	20.04	20.00	20.02						
15	16QAM	1	74	20.22	20.08	20.17	19.77	20.01	21.5	0				
15	16QAM	36	0	20.08	20.23	20.05	20.05	20.00						
15	16QAM	36	20	20.13	20.22	20.14	19.88	19.85						
15	16QAM	36	39	20.14	20.22	20.14	19.80	19.91	21.5	0				
15	16QAM	75	0	20.19	20.28	20.20	19.87	19.85						
15	64QAM	1	0	19.98	20.06	19.97	20.05	20.05						
15	64QAM	1	37	19.98	20.06	19.99	19.89	19.82	21.5	0				
15	64QAM	1	74	20.11	20.27	20.05	20.06	20.04						
15	64QAM	36	0	20.10	20.24	20.10	19.77	19.75						
15	64QAM	36	20	20.18	20.25	20.18	19.91	19.88	21.5	0				
15	64QAM	36	39	20.19	20.23	20.18	19.91	19.93						
15	64QAM	75	0	20.18	20.25	20.20	19.87	19.82						
Channel				39700	40160	40620	41090	41540	2501	2547	2593	2639	2685	
Frequency (MHz)														
10	QPSK	1	0	19.89	19.89	19.91	19.92	19.96	21.5	0				
10	QPSK	1	25	19.90	19.92	19.85	19.62	19.70						
10	QPSK	1	49	20.03	20.03	20.01	19.93	19.86						
10	QPSK	25	0	19.99	20.11	19.94	19.66	19.63	21.5	0				
10	QPSK	25	12	20.05	20.09	20.05	19.74	19.77						
10	QPSK	25	25	20.04	20.13	20.03	19.69	19.82						
10	QPSK	50	0	20.05	20.14	20.06	19.71	19.69	21.5	0				
10	16QAM	1	0	19.98	20.09	19.96	19.76	19.97						
10	16QAM	1	25	19.95	19.97	19.94								

Reduced Power Mode for Hotspot On

Band 2 (1900MHz Band) Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel							Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	0	14.14	14.14	13.88	15	0		
20	QPSK	1	49	14.02	13.52	13.76				
20	QPSK	1	99	13.87	13.87	13.69				
20	QPSK	50	0	14.23	14.18	14.06	15	0		
20	QPSK	50	24	14.20	14.09	14.02				
20	QPSK	50	50	14.14	14.23	13.95				
20	QPSK	100	0	14.20	14.26	14.04	15	0		
20	16QAM	1	0	14.43	14.45	14.19				
20	16QAM	1	49	14.38	14.30	14.09				
20	16QAM	1	99	14.22	14.17	14.04	15	0		
20	16QAM	50	0	14.29	14.11	14.10				
20	16QAM	50	24	14.23	14.07	14.00				
20	16QAM	50	50	14.17	14.30	14.20	15	0		
20	16QAM	100	0	14.22	14.23	14.00				
20	16QAM	1	0	14.31	14.14	14.01				
20	64QAM	1	49	14.00	14.00	13.88	15	0		
20	64QAM	1	99	14.02	14.04	14.02				
20	64QAM	50	0	14.29	14.09	14.05				
20	64QAM	50	24	14.24	14.04	13.98	15	0		
20	64QAM	50	50	14.19	14.02	13.92				
20	64QAM	100	0	14.20	14.05	14.01				
Channel							Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
15	QPSK	1	0	14.18	14.01	13.85	15	0		
15	QPSK	1	37	14.03	13.94	13.78				
15	QPSK	1	74	14.03	13.90	13.78				
15	QPSK	36	0	14.32	14.11	14.02	15	0		
15	QPSK	36	30	14.23	14.04	13.96				
15	QPSK	36	39	14.18	14.05	13.93				
15	QPSK	75	0	14.23	14.05	13.97	15	0		
15	16QAM	1	0	14.12	14.32	14.10				
15	16QAM	1	37	14.34	14.31	14.03				
15	16QAM	1	74	14.27	14.17	14.07	15	0		
15	16QAM	36	0	14.23	14.09	14.01				
15	16QAM	36	30	14.17	14.00	13.92				
15	16QAM	36	39	14.13	13.99	13.90	15	0		
15	16QAM	75	0	14.22	14.05	13.95				
15	64QAM	1	0	14.32	14.11	14.03				
15	64QAM	1	37	14.14	14.04	13.91	15	0		
15	64QAM	1	74	14.16	13.97	13.85				
15	64QAM	36	0	14.28	14.11	13.99				
15	64QAM	36	30	14.17	14.00	13.92	15	0		
15	64QAM	36	39	14.14	14.02	13.89				
15	64QAM	75	0	14.23	14.05	13.95				
Channel							Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	13.97	13.87	13.62	15	0		
10	QPSK	1	25	13.94	13.85	13.60				
10	QPSK	1	49	13.91	13.76	13.60				
10	QPSK	25	0	14.09	13.92	13.77	15	0		
10	QPSK	25	12	14.09	14.01	13.76				
10	QPSK	25	25	14.12	13.89	13.81				
10	QPSK	50	0	14.09	13.91	13.85	15	0		
10	16QAM	1	0	14.37	14.28	14.06				
10	16QAM	1	25	14.30	14.20	14.00				
10	16QAM	1	49	14.27	14.24	14.06	15	0		
10	16QAM	25	0	14.10	13.98	13.97				
10	16QAM	25	12	14.12	14.00	13.93				
10	16QAM	25	25	14.08	13.85	13.83	15	0		
10	16QAM	50	0	14.09	13.93	13.84				
10	64QAM	1	0	14.43	14.26	14.04				
10	64QAM	1	25	14.38	14.25	14.00	15	0		
10	64QAM	1	49	14.28	14.18	13.98				
10	64QAM	25	0	14.15	13.98	13.86				
10	64QAM	25	12	14.12	14.02	13.94	15	0		
10	64QAM	25	25	14.10	13.91	13.81				
10	64QAM	50	0	14.07	13.93	13.84				
Channel							Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
5	QPSK	1	0	14.05	14.05	14.19	15	0		
5	QPSK	1	12	14.07	14.37	14.21				
5	QPSK	1	24	14.06	14.24	14.33				
5	QPSK	12	0	14.09	14.27	14.44	15	0		
5	QPSK	12	7	14.14	14.36	14.30				
5	QPSK	12	13	14.14	14.39	14.38				
5	QPSK	25	0	14.06	14.24	14.37	15	0		
5	16QAM	1	0	14.28	14.35	14.41				
5	16QAM	1	12	14.14	13.98	14.17				
5	16QAM	1	24	14.21	14.21	14.01	15	0		
5	16QAM	12	0	14.06	14.25	14.37				
5	16QAM	12	7	14.12	14.28	14.23				
5	16QAM	12	13	14.23	14.30	14.44	15	0		
5	16QAM	25	0	14.16	14.33	14.36				
5	64QAM	1	0	14.19	14.36	13.98				
5	64QAM	1	12	14.39	14.08	14.23	15	0		
5	64QAM	1	24	14.13	14.08	14.09				
5	64QAM	12	0	13.71	13.82	14.11				
5	64QAM	12	7	13.86	13.93	14.14	15	0		
5	64QAM	12	13	13.82	13.96	14.02				
5	64QAM	25	0	13.86	14.03	14.12				
Channel							Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
3	QPSK	1	0	13.99	13.97	14.07	15	0		
3	QPSK	1	8	13.99	14.31	14.36				
3	QPSK	1	14	14.06	14.16	14.27				
3	QPSK	8	0	14.07	14.20	14.36	15	0		
3	QPSK	8	4	14.08	14.28	14.27				
3	QPSK	8	7	14.06	14.33	14.26				
3	QPSK	15	0	13.94	14.16	14.31	15	0		
3	16QAM	1	0	14.16	14.29	14.33				
3	16QAM	1	8	14.08	13.90	14.05				
3	16QAM	1	14	14.06	14.06	14.20	15	0		
3	16QAM	8	0	13.94	14.17	14.31				
3	16QAM	8	4	14.00	14.22	14.37				
3	16QAM	8	7	14.16	14.22	14.32	15	0		
3	16QAM	15	0	14.08	14.27	14.26				
3	64QAM	1	0	14.07	14.28	13.92				
3	64QAM	1	8	14.27	14.02	14.15	15	0		
3	64QAM	1	14	14.06	14.00	13.99				
3	64QAM	8	0	13.96	14.19	14.33				
3	64QAM	8	4	14.10	14.20	14.32	15	0		
3	64QAM	8	7	14.04	14.23	14.29				
3	64QAM	15	0	14.19	14.23	14.29				
Channel							Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
1.4	QPSK	1	0	14.02	14.01	14.13	15	0		
1.4	QPSK	1	3	14.03	14.34	14.42				
1.4	QPSK	1	5	14.00	14.20	14.36				
1.4	QPSK	3	0	14.03	14.24	14.40	15	0		
1.4	QPSK	3	1	14.11	14.32	14.33				
1.4	QPSK	3	3	14.10	14.36	14.32				
1.4	QPSK	6	0	14.00	14.20	14.34	15	0		
1.4	16QAM	1	0	14.22	14.32	14.37				
1.4	16QAM	1	3	14.11	13.94	14.11				
1.4	16QAM	1	5	14.12	14.09	14.09	15	0		
1.4	16QAM	3	0	14.00	14.21	14.34				
1.4	16QAM	3	1	14.06	14.25	14.41				
1.4	16QAM	3	3	14.20	14.26	14.38	15	0		
1.4	16QAM	6	0	14.12	14.30	14.32				
1.4	64QAM	1	0	14.13	14.32	13.95				
1.4	64QAM	1	3	14.33	14.05	14.19	15	0		
1.4	64QAM	1	5	14.09	14.04	14.03				
1.4	64QAM	3	0	13.87	13.89	14.06				
1.4	64QAM	3	1	13.80	13.89	14.11	15	0		
1.4	64QAM	3	3	13.76	13.93	13.98				
1.4	64QAM	6	0	13.83	13.99	14.08				

Band 4 (AWS Band) Part 27L (only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPR (dB)		
Channel							Turn-up limit (dBm)	MPR (dB)		
Frequency (MHz)										
20	QPSK	1	0	15.01	15.05	15.11	16.5	0		
20	QPSK	1	49	14.92	15.01	14.99				
20	QPSK	1	99	15.00	15.00	14.98				
20	QPSK	50	0	15.09	15.14					



Reduced Power Mode for Hotspot On

Band 7 (200MHz Band) Part 27											
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	Channel		
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			2050	2055	2060
20	QPSK	1	0	14.31	14.16	14.41	16	0	Channel		
20	QPSK	1	49	14.32	14.40	14.27			Frequency (MHz)		
20	QPSK	1	99	14.38	14.40	14.16	16	0	Channel		
20	QPSK	50	0	14.51	14.35	14.21			Frequency (MHz)		
20	QPSK	50	24	14.47	14.51	14.46	16	0	Channel		
20	QPSK	50	99	14.55	14.55	14.57			Frequency (MHz)		
20	QPSK	100	0	14.31	14.39	14.45	16	0	Channel		
20	16QAM	1	0	14.75	14.78	14.80			Frequency (MHz)		
20	16QAM	1	49	14.58	14.56	14.64	16	0	Channel		
20	16QAM	1	99	14.59	14.57	14.57			Frequency (MHz)		
20	16QAM	50	0	14.54	14.46	14.60	16	0	Channel		
20	16QAM	50	24	14.61	14.48	14.62			Frequency (MHz)		
20	16QAM	50	99	14.54	14.58	14.59	16	0	Channel		
20	16QAM	100	0	14.52	14.45	14.53			Frequency (MHz)		
20	64QAM	1	0	14.64	14.63	14.51	16	0	Channel		
20	64QAM	1	49	14.66	14.54	14.51			Frequency (MHz)		
20	64QAM	1	99	14.75	14.62	14.67	16	0	Channel		
20	64QAM	50	0	14.37	14.39	14.25			Frequency (MHz)		
20	64QAM	50	24	14.51	14.42	14.37	16	0	Channel		
20	64QAM	50	99	14.57	14.63	14.46			Frequency (MHz)		
20	64QAM	100	0	14.54	14.37	14.37	16	0	Channel		
20	64QAM	100	0	14.54	14.37	14.37			Frequency (MHz)		
Channel											
Frequency (MHz)				2052.5	21100	21375	Turn-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2057.5	20535	2062.5	16	0	Channel		
15	QPSK	1	0	14.31	14.33	14.11			Frequency (MHz)		
15	QPSK	1	37	14.41	14.35	14.14	16	0	Channel		
15	QPSK	1	74	14.38	14.38	14.34			Frequency (MHz)		
15	QPSK	36	0	14.51	14.42	14.29	16	0	Channel		
15	QPSK	36	29	14.47	14.49	14.39			Frequency (MHz)		
15	QPSK	36	39	14.58	14.45	14.33	16	0	Channel		
15	QPSK	75	0	14.46	14.35	14.35			Frequency (MHz)		
15	16QAM	1	0	14.69	14.45	14.54	16	0	Channel		
15	16QAM	1	37	14.66	14.67	14.70			Frequency (MHz)		
15	16QAM	1	74	14.77	14.78	14.67	16	0	Channel		
15	16QAM	36	0	14.49	14.44	14.21			Frequency (MHz)		
15	16QAM	36	29	14.46	14.47	14.36	16	0	Channel		
15	16QAM	36	39	14.51	14.51	14.37			Frequency (MHz)		
15	16QAM	75	0	14.51	14.40	14.35	16	0	Channel		
15	64QAM	1	0	14.60	14.34	14.35			Frequency (MHz)		
15	64QAM	1	37	14.31	14.52	14.70	16	0	Channel		
15	64QAM	1	74	14.42	14.64	14.51			Frequency (MHz)		
15	64QAM	36	0	14.48	14.39	14.22	16	0	Channel		
15	64QAM	36	29	14.51	14.37	14.31			Frequency (MHz)		
15	64QAM	36	39	14.57	14.46	14.31	16	0	Channel		
15	64QAM	75	0	14.41	14.43	14.27			Frequency (MHz)		
Channel											
Frequency (MHz)				2060	21100	21400	Turn-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2065	20535	2060	16	0	Channel		
10	QPSK	1	0	14.18	14.02	13.91			Frequency (MHz)		
10	QPSK	1	25	14.11	14.14	13.82	16	0	Channel		
10	QPSK	1	49	14.28	13.92	13.86			Frequency (MHz)		
10	QPSK	25	0	14.22	14.15	13.98	16	0	Channel		
10	QPSK	25	12	14.25	14.19	13.91			Frequency (MHz)		
10	QPSK	25	25	14.32	14.28	14.13	16	0	Channel		
10	QPSK	50	0	14.29	14.17	14.09			Frequency (MHz)		
10	16QAM	1	0	14.69	14.59	14.59	16	0	Channel		
10	16QAM	1	25	14.65	14.67	14.53			Frequency (MHz)		
10	16QAM	1	49	14.65	14.61	14.53	16	0	Channel		
10	16QAM	25	0	14.22	14.21	14.08			Frequency (MHz)		
10	16QAM	25	12	14.32	14.19	14.09	16	0	Channel		
10	16QAM	25	25	14.38	14.20	14.09			Frequency (MHz)		
10	16QAM	50	0	14.33	14.25	14.09	16	0	Channel		
10	64QAM	1	0	14.65	14.72	14.47			Frequency (MHz)		
10	64QAM	1	25	14.41	14.32	14.44	16	0	Channel		
10	64QAM	1	49	14.63	14.54	14.52			Frequency (MHz)		
10	64QAM	25	0	14.22	14.18	14.12	16	0	Channel		
10	64QAM	25	12	14.29	14.23	14.14			Frequency (MHz)		
10	64QAM	25	25	14.35	14.29	14.11	16	0	Channel		
10	64QAM	50	0	14.30	13.95	14.08			Frequency (MHz)		
Channel											
Frequency (MHz)				2077.5	21100	21425	Turn-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2082.5	20535	2087.5	16	0	Channel		
5	QPSK	1	0	13.91	13.96	14.09			Frequency (MHz)		
5	QPSK	1	12	13.83	14.00	14.09	16	0	Channel		
5	QPSK	1	24	13.81	14.18	14.23			Frequency (MHz)		
5	QPSK	12	0	14.08	14.21	14.27	16	0	Channel		
5	QPSK	12	7	14.10	14.14	14.27			Frequency (MHz)		
5	QPSK	12	13	13.97	14.23	14.28	16	0	Channel		
5	QPSK	25	0	13.96	14.10	14.31			Frequency (MHz)		
5	16QAM	1	0	14.43	14.35	14.67	16	0	Channel		
5	16QAM	1	12	14.48	14.56	14.39			Frequency (MHz)		
5	16QAM	1	24	14.45	14.35	14.43	16	0	Channel		
5	16QAM	12	0	14.05	14.20	14.31			Frequency (MHz)		
5	16QAM	12	7	14.05	14.17	14.30	16	0	Channel		
5	16QAM	12	13	14.03	14.20	14.33			Frequency (MHz)		
5	16QAM	25	0	14.02	14.13	14.21	16	0	Channel		
5	64QAM	1	0	14.54	14.44	14.64			Frequency (MHz)		
5	64QAM	1	12	14.44	14.32	14.35	16	0	Channel		
5	64QAM	1	24	14.55	14.33	14.70			Frequency (MHz)		
5	64QAM	12	0	13.97	14.00	14.34	16	0	Channel		
5	64QAM	12	7	13.98	14.11	14.42			Frequency (MHz)		
5	64QAM	12	13	13.96	14.14	14.28	16	0	Channel		
5	64QAM	25	0	14.07	14.16	14.32			Frequency (MHz)		

Band 66											
BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)	Channel		
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.			1700	1745	1770
20	QPSK	1	0	15.18	15.06	15.16	16.5	0	Channel		
20	QPSK	1	49	15.00	15.02	14.97			Frequency (MHz)		
20	QPSK	1	99	15.15	15.04	15.02	16.5	0	Channel		
20	QPSK	50	0	15.10	15.10	15.23			Frequency (MHz)		
20	QPSK	50	24	15.02	15.10	15.30	16.5	0	Channel		
20	QPSK	50	99	15.38	15.16	15.25			Frequency (MHz)		
20	QPSK	100	0	15.14	15.06	14.89	16.5	0	Channel		
20	16QAM	1	0	15.45	15.34	15.43			Frequency (MHz)		
20	16QAM	1	49	15.19	15.14	15.26	16.5	0	Channel		
20	16QAM	1	99	15.14	15.18	15.20			Frequency (MHz)		
20	16QAM	50	0	15.37	15.16	15.23	16.5	0	Channel		
20	16QAM	50	24	15.14	15.29	15.19			Frequency (MHz)		
20	16QAM	50	99	15.17	15.36	15.24	16.5	0	Channel		
20	16QAM	100	0	15.26	15.25	15.23			Frequency (MHz)		
20	64QAM	1	0	15.21	15.33	15.34	16.5	0	Channel		
20	64QAM	1	49	15.31	15.22	15.12			Frequency (MHz)		
20	64QAM	1	99	15.24	15.35	15.30	16.5	0	Channel		
20	64QAM	50	0	14.96	15.15	15.21			Frequency (MHz)		
20	64QAM	50	24	14.96	15.14	15.26	16.5	0	Channel		
20	64QAM	50	99	15.07	15.09	15.17			Frequency (MHz)		
20	64QAM	100	0	15.05	15.05	15.05	16.5	0	Channel		
20	64QAM	100	0	15.05	15.05	15.05			Frequency (MHz)		
Channel											
Frequency (MHz)				132047	132322	132997	Turn-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1717.5	1745	1772.5	16.5	0	Channel		
15	QPSK	1	0	15.08	15.05	14.98			Frequency (MHz)		
15	QPSK	1	37	15.00	15.06	14.94	16.5	0	Channel		
15	QPSK	1	74	15.05	15.03	14.96			Frequency (MHz)		
15	QPSK	36	0	15.22	15.13	14.94	16.5	0	Channel		
15	QPSK	36	29	15.20	15.36	14.99			Frequency (MHz)		
15	QPSK	36	39	15.13	15.14	15.11	16.5	0	Channel		
15	QPSK	75	0	15.08	15.12	15.07			Frequency (MHz)		
15	16QAM	1	0	15.41	15.18	15.20	16.5	0	Channel		
15	16QAM	1	37	15.23	15.29	15.18			Frequency (MHz)		
15	16QAM	1	74	15.18	15.16	15.17	16.5	0	Channel		
15	16QAM	36									

Reduced Power Mode for Hotspot On

Band 38(only on channel required)											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)			
Channel				37850	38000	38150					
Frequency (MHz)				2980	2995	2910					
20	QPSK	1	0	15.67	15.70	15.99	17.5	0			
20	QPSK	1	49	15.57	15.77	15.85					
20	QPSK	1	99	15.77	15.85	15.84					
20	QPSK	50	0	15.72	15.93	16.10	17.5	0			
20	QPSK	50	24	15.67	15.87	16.11					
20	QPSK	50	50	15.82	15.94	16.04					
20	QPSK	100	0	15.55	15.99	16.04	17.5	0			
20	16QAM	1	0	15.75	15.95	16.12					
20	16QAM	1	99	15.72	16.06	16.15					
20	16QAM	50	0	15.78	15.93	16.13	17.5	0			
20	16QAM	50	24	15.77	16.00	16.02					
20	16QAM	50	50	15.76	16.01	16.10					
20	16QAM	100	0	15.68	16.02	16.13	17.5	0			
20	64QAM	1	0	15.73	15.81	16.06					
20	64QAM	1	49	15.76	15.71	15.90					
20	64QAM	1	99	15.72	15.87	15.86	17.5	0			
20	64QAM	50	0	15.53	15.98	15.88					
20	64QAM	50	24	15.67	16.03	16.01					
20	64QAM	50	50	15.72	16.01	15.95	17.5	0			
20	64QAM	50	100	15.53	16.01	15.88					
Channel				37825	38000	38175			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2977.5	2995	2912.5					
15	QPSK	1	0	15.69	15.79	15.80	17.5	0			
15	QPSK	1	37	15.71	15.49	15.82					
15	QPSK	1	74	15.83	15.82	15.93					
15	QPSK	36	0	15.90	15.54	15.89	17.5	0			
15	QPSK	36	20	15.69	15.63	15.96					
15	QPSK	36	39	15.92	15.57	15.96					
15	QPSK	75	0	15.93	15.58	15.97	17.5	0			
15	16QAM	1	0	15.90	15.64	15.88					
15	16QAM	1	37	15.78	15.77	15.86					
15	16QAM	1	74	15.76	15.54	16.02	17.5	0			
15	16QAM	36	0	15.91	15.82	15.86					
15	16QAM	36	20	15.90	15.65	15.93					
15	16QAM	36	39	15.90	15.57	15.94	17.5	0			
15	16QAM	75	0	15.96	15.64	15.99					
15	64QAM	1	0	15.74	15.82	15.78					
15	64QAM	1	37	15.74	15.66	15.78	17.5	0			
15	64QAM	1	74	15.95	15.83	15.91					
15	64QAM	36	0	15.92	15.54	15.90					
15	64QAM	36	20	15.93	15.88	15.98	17.5	0			
15	64QAM	36	39	15.91	15.58	15.99					
15	64QAM	75	0	15.93	15.64	15.98					
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2975	2995	2915					
10	QPSK	1	0	15.57	15.69	15.69	17.5	0			
10	QPSK	1	25	15.58	15.39	15.72					
10	QPSK	1	49	15.71	15.70	15.83					
10	QPSK	25	0	15.67	15.43	15.91	17.5	0			
10	QPSK	25	12	15.73	15.51	15.89					
10	QPSK	25	25	15.72	15.46	15.93					
10	QPSK	50	0	15.73	15.48	15.94	17.5	0			
10	16QAM	1	0	15.66	15.53	15.69					
10	16QAM	1	25	15.63	15.65	15.77					
10	16QAM	1	49	15.77	15.42	15.75	17.5	0			
10	16QAM	25	0	15.63	15.72	15.90					
10	16QAM	25	12	15.69	15.54	15.90					
10	16QAM	25	25	15.71	15.45	15.91	17.5	0			
10	16QAM	50	0	15.76	15.52	15.94					
10	64QAM	1	0	15.55	15.71	15.73					
10	64QAM	1	25	15.53	15.54	15.74	17.5	0			
10	64QAM	1	49	15.66	15.69	15.95					
10	64QAM	25	0	15.67	15.56	15.90					
10	64QAM	25	12	15.74	15.57	15.93	17.5	0			
10	64QAM	25	25	15.76	15.45	15.89					
10	64QAM	50	0	15.74	15.52	15.93					
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				2972.5	2995	2917.5					
5	QPSK	1	0	15.62	15.74	15.74	17.5	0			
5	QPSK	1	12	15.65	15.44	15.75					
5	QPSK	1	24	15.76	15.75	15.88					
5	QPSK	12	0	15.85	15.49	15.84	17.5	0			
5	QPSK	12	7	15.84	15.58	15.91					
5	QPSK	12	13	15.87	15.52	15.91					
5	QPSK	25	0	15.88	15.53	15.92	17.5	0			
5	16QAM	1	0	15.84	15.58	15.83					
5	16QAM	1	12	15.71	15.70	15.80					
5	16QAM	1	24	15.70	15.48	15.96	17.5	0			
5	16QAM	12	0	15.85	15.77	15.91					
5	16QAM	12	7	15.83	15.60	15.88					
5	16QAM	12	13	15.84	15.52	15.89	17.5	0			
5	16QAM	25	0	15.89	15.58	15.93					
5	64QAM	1	0	15.67	15.77	15.72					
5	64QAM	1	12	15.69	15.60	15.71	17.5	0			
5	64QAM	1	24	15.90	15.76	15.85					
5	64QAM	12	0	15.85	15.48	15.85					
5	64QAM	12	7	15.87	15.62	15.93	17.5	0			
5	64QAM	12	13	15.84	15.52	15.93					
5	64QAM	25	0	15.86	15.57	15.91					

Band 41 (2.6G Band)											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Low Middle Ch / Freq	Power Middle Ch / Freq	Power High Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2908	2949.5	2993	2938.5	2980			
20	QPSK	1	0	16.08	15.80	15.93	15.63	15.85	17.5	0	
20	QPSK	1	49	15.94	15.69	15.96	15.78	15.78			
20	QPSK	1	99	15.93	15.97	16.02	15.88	15.88			
20	QPSK	50	0	16.19	16.05	15.99	15.93	15.96	17.5	0	
20	QPSK	50	24	16.20	15.99	16.04	15.76	15.79			
20	QPSK	50	50	16.13	16.06	16.09	16.03	15.75			
20	QPSK	100	0	16.13	16.11	16.16	15.66	15.77	17.5	0	
20	16QAM	1	0	16.21	16.07	16.20	15.96	15.92			
20	16QAM	1	99	16.17	16.25	15.92	15.84	15.81			
20	16QAM	1	99	16.24	16.18	15.97	15.93	15.76	17.5	0	
20	16QAM	50	0	16.22	16.05	16.00	15.82	15.96			
20	16QAM	50	24	16.11	16.12	16.24	15.80	15.80			
20	16QAM	50	50	16.19	16.13	16.10	15.97	15.87	17.5	0	
20	16QAM	100	0	16.22	16.14	16.23	15.89	15.93			
20	64QAM	1	0	16.15	15.73	15.94	15.94	15.93			
20	64QAM	1	49	15.99	15.83	15.74	15.75	15.91	17.5	0	
20	64QAM	1	99	15.95	15.99	15.85	15.93	15.70			
20	64QAM	50	0	15.97	16.10	15.90	15.74	15.98			
20	64QAM	50	24	16.10	16.15	15.99	15.72	15.81	17.5	0	
20	64QAM	50	50	16.04	16.13	16.05	15.93	15.74			
20	64QAM	100	0	15.97	16.13	16.06	15.74	15.80			
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2903.5	2948.3	2993	2937.8	2982.5			
15	QPSK	1	0	15.89	15.90	15.90	15.91	15.91	17.5	0	
15	QPSK	1	37	15.91	15.92	15.84	15.61	15.69			
15	QPSK	1	74	16.02	16.04	16.02	15.94	16.00			
15	QPSK	36	0	15.98	16.11	15.97	15.66	15.84	17.5	0	
15	QPSK	36	20	16.05	16.10	16.04	15.75	15.76			
15	QPSK	36	39	16.05	16.13	16.02	15.69	15.81			
15	QPSK	75	0	16.06	16.14	16.07	15.70	15.69	17.5	0	
15	16QAM	1	0	15.97	16.11	15.99	15.76	15.98			
15	16QAM	1	37	15.95	15.99	15.93	15.89	15.91			
15	16QAM	1	74	16.11	15.97	16.06	15.66	15.90	17.5	0	
15	16QAM	36	0	15.97	16.12	15.94	15.94	15.89			
15	16QAM	36									



Reduced Power Mode for Handheld On

Band 2 (1900MHz Band) Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.				
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.10	20.10	19.94	21	0		
20	QPSK	1	49	19.82	19.86	19.80				
20	QPSK	1	89	19.84	19.74	19.71				
20	QPSK	50	0	19.94	19.89	19.86	21	0		
20	QPSK	50	24	20.04	19.90	19.79				
20	QPSK	50	60	19.98	20.05	19.81				
20	QPSK	100	0	20.05	20.10	19.86	21	0		
20	16QAM	1	0	20.15	20.39	20.34				
20	16QAM	1	49	20.25	20.37	20.30				
20	16QAM	1	89	20.19	20.34	20.21	21	0		
20	16QAM	50	0	19.94	20.32	20.04				
20	16QAM	50	24	20.04	20.21	20.10				
20	16QAM	50	60	20.19	20.33	20.12	21	0		
20	16QAM	100	0	20.09	20.10	19.92				
20	64QAM	1	0	20.13	20.24	20.38				
20	64QAM	1	49	20.06	20.20	20.22	21	0		
20	64QAM	1	89	20.35	20.16	20.01				
20	64QAM	50	0	19.94	19.81	19.87				
20	64QAM	50	24	20.06	19.98	19.77	21	0		
20	64QAM	50	60	19.91	20.01	19.81				
20	64QAM	100	0	19.98	19.84	19.84				
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.89	19.97	19.89	21	0		
15	QPSK	1	37	19.83	19.86	19.85				
15	QPSK	1	74	19.77	19.75	19.58				
15	QPSK	36	0	19.96	19.87	19.82	21	0		
15	QPSK	36	20	20.09	19.93	19.82				
15	QPSK	36	39	20.08	19.91	19.84				
15	QPSK	75	0	19.98	19.93	19.78	21	0		
15	16QAM	1	0	19.89	20.03	20.04				
15	16QAM	1	37	20.06	20.02	19.86				
15	16QAM	1	74	20.23	20.04	20.01	21	0		
15	16QAM	36	0	20.13	19.90	19.78				
15	16QAM	36	20	20.04	20.03	19.87				
15	16QAM	36	39	19.87	19.94	19.77	21	0		
15	16QAM	75	0	19.93	19.87	19.89				
15	64QAM	1	0	20.23	20.18	20.08				
15	64QAM	1	37	20.02	20.11	20.05	21	0		
15	64QAM	1	74	19.96	19.97	20.06				
15	64QAM	36	0	20.07	19.88	19.70				
15	64QAM	36	20	19.93	19.92	19.85	21	0		
15	64QAM	36	39	20.06	19.91	20.03				
15	64QAM	75	0	19.91	19.89	19.82				
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.88	19.71	19.26	21	0		
10	QPSK	1	25	19.69	19.61	19.31				
10	QPSK	1	49	19.63	19.48	19.21				
10	QPSK	25	0	19.76	19.62	19.59	21	0		
10	QPSK	25	12	19.77	19.71	19.61				
10	QPSK	25	25	19.73	19.70	19.61				
10	QPSK	50	0	19.81	19.71	19.57	21	0		
10	16QAM	1	0	20.29	20.02	20.08				
10	16QAM	1	25	20.01	20.22	20.02				
10	16QAM	1	49	19.83	20.21	19.83	21	0		
10	16QAM	25	0	19.83	19.56	19.68				
10	16QAM	25	12	19.79	19.66	19.56				
10	16QAM	25	25	19.81	19.65	19.51	21	0		
10	16QAM	50	0	19.81	19.55	19.50				
10	64QAM	1	0	20.23	19.99	20.12				
10	64QAM	1	25	20.22	19.81	20.08	21	0		
10	64QAM	1	49	20.20	20.13	19.99				
10	64QAM	25	0	19.71	19.70	19.48				
10	64QAM	25	12	19.92	19.81	19.80	21	0		
10	64QAM	25	25	19.89	19.73	19.46				
10	64QAM	50	0	19.72	19.68	19.52				
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.69	19.69	19.32	21	0		
5	QPSK	1	12	19.72	19.67	19.43				
5	QPSK	1	24	19.84	19.67	19.41				
5	QPSK	12	0	19.81	19.66	19.53	21	0		
5	QPSK	12	7	19.82	19.77	19.59				
5	QPSK	12	13	19.84	19.84	19.44				
5	QPSK	25	0	19.79	19.70	19.49	21	0		
5	16QAM	1	0	20.26	20.06	20.02				
5	16QAM	1	12	20.11	20.14	19.97				
5	16QAM	1	24	19.84	19.83	20.03	21	0		
5	16QAM	12	0	19.78	19.78	19.48				
5	16QAM	12	7	19.81	19.84	19.50				
5	16QAM	12	13	19.80	19.79	19.67	21	0		
5	16QAM	25	0	19.86	19.70	19.48				
5	64QAM	1	0	20.02	19.92	19.88				
5	64QAM	1	12	19.88	19.77	19.60	21	0		
5	64QAM	1	24	19.90	19.61	19.60				
5	64QAM	12	0	19.81	19.65	19.52				
5	64QAM	12	7	19.84	19.83	19.62	21	0		
5	64QAM	12	13	19.86	19.79	19.49				
5	64QAM	25	0	19.80	19.73	19.49				
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.63	19.59	19.26	21	0		
3	QPSK	1	8	19.62	19.61	19.39				
3	QPSK	1	14	19.60	19.67	19.36				
3	QPSK	8	0	19.77	19.60	19.43	21	0		
3	QPSK	8	4	19.76	19.67	19.56				
3	QPSK	8	7	19.74	19.78	19.40				
3	QPSK	15	0	19.75	19.60	19.43	21	0		
3	16QAM	1	0	20.22	20.00	19.90				
3	16QAM	1	8	20.05	20.04	19.93				
3	16QAM	1	14	19.74	19.77	19.99	21	0		
3	16QAM	8	0	19.74	19.68	19.42				
3	16QAM	8	4	19.77	19.78	19.40				
3	16QAM	8	7	19.74	19.69	19.63	21	0		
3	16QAM	15	0	19.76	19.64	19.44				
3	64QAM	1	0	19.96	19.72	19.62				
3	64QAM	1	8	19.84	19.71	19.61	21	0		
3	64QAM	1	14	19.84	19.61	19.56				
3	64QAM	8	0	19.73	19.57	19.46				
3	64QAM	8	4	19.77	19.75	19.57	21	0		
3	64QAM	8	7	19.82	19.71	19.41				
3	64QAM	15	0	19.78	19.68	19.42				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	19.66	19.64	19.30	21	0		
1.4	QPSK	1	3	19.67	19.64	19.41				
1.4	QPSK	1	5	19.52	19.62	19.38				
1.4	QPSK	3	0	19.79	19.63	19.46	21	0		
1.4	QPSK	3	1	19.79	19.72	19.57				
1.4	QPSK	3	3	19.79	19.81	19.42				
1.4	QPSK	6	0	19.77	19.65	19.46	21	0		
1.4	16QAM	1	0	20.24	20.00	19.97				
1.4	16QAM	1	3	20.08	20.09	19.96				
1.4	16QAM	1	5	19.79	19.80	20.01	21	0		
1.4	16QAM	3	0	19.76	19.73	19.45				
1.4	16QAM	3	1	19.79	19.81	19.45				
1.4	16QAM	3	3	19.77	19.74	19.65	21	0		
1.4	16QAM	6	0	19.81	19.67	19.46				
1.4	64QAM	1	0	19.96	19.72	19.62				
1.4	64QAM	1	3	19.86	19.74	19.66	21	0		
1.4	64QAM	1	5	19.87	19.56	19.58				
1.4	64QAM	3	0	19.76	19.62	19.50				
1.4	64QAM	3	1	19.82	19.78	19.59	21	0		
1.4	64QAM	3	3	19.84	19.76	19.44				
1.4	64QAM	6	0	19.77	19.68	19.47				

Band 4 (AWS Band) Part 27L (only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Mid Ch. / Freq.	High Ch. / Freq.				
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.66	20.73	20.78	21.5	0		
20	QPSK	1	49	20.45	20.64	20.69				
20	QPSK	1	99	20.51	20.58	20.65				
20	QPSK	50	0	20.54	20.87	20.91	21.5	0		
20	QPSK	50	24	20.68	20.86	20.79				
20	QPSK	50	50	20.57	20.80	20.89				
20	QPSK	100	0	20.64	20.58	20.99	21.5	0		
20	16QAM	1	0	21.15	21.18	21.25				
20	16QAM	1	49	21.12	21.22	21.86				
20	16QAM	1	99	21.14	20.86	21.17	21.5			



Reduced Power Mode for Handheld On

Band 7 (2600MHz Band) Part 27									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				13050	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	21.87	21.91	21.99			
20	QPSK	1	49	21.86	21.96	21.83	23.5	0	
20	QPSK	1	99	21.84	21.95	21.74			
20	QPSK	50	0	22.07	21.91	21.77			
20	QPSK	50	24	22.03	22.07	22.14	23.5	0	
20	QPSK	50	50	22.11	22.11	22.05			
20	QPSK	100	0	22.07	21.95	22.06			
20	16QAM	1	0	22.31	22.34	22.35			
20	16QAM	1	49	22.22	22.10	22.07	23.5	0	
20	16QAM	1	99	22.25	22.23	22.13			
20	16QAM	50	0	22.10	22.02	22.15			
20	16QAM	50	24	22.17	22.04	22.18	23	0.5	
20	16QAM	50	50	22.10	22.14	22.15			
20	16QAM	100	0	22.08	22.01	22.09			
20	64QAM	1	0	22.20	22.19	22.07			
20	64QAM	1	49	22.22	22.10	22.07	23	0.5	
20	64QAM	1	99	22.21	22.18	22.23			
20	64QAM	50	0	21.64	21.56	21.60			
20	64QAM	50	24	21.66	21.66	21.71	22	1.5	
20	64QAM	50	50	21.60	21.62	21.60			
20	64QAM	100	0	21.71	21.55	21.67			
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2534	2562.5			
15	QPSK	1	0	21.87	21.89	21.87	23.5	0	
15	QPSK	1	37	21.87	21.91	21.78			
15	QPSK	1	74	21.84	21.84	21.90			
15	QPSK	36	0	22.07	21.98	21.79			
15	QPSK	36	20	22.03	22.02	21.96	23.5	0	
15	QPSK	36	39	22.14	22.01	21.89			
15	QPSK	75	0	22.02	21.91	21.91			
15	16QAM	1	0	22.25	22.01	22.10	23.5	0	
15	16QAM	1	37	22.22	22.23	22.26			
15	16QAM	1	74	22.33	22.34	22.23			
15	16QAM	36	0	22.05	22.00	21.77			
15	16QAM	36	20	22.02	22.03	21.92	23	0.5	
15	16QAM	36	39	22.07	22.07	21.93			
15	16QAM	75	0	22.07	21.96	21.91			
15	64QAM	1	0	22.15	21.96	21.91	23	0.5	
15	64QAM	1	37	21.87	22.08	22.28			
15	64QAM	1	74	21.86	22.20	22.07			
15	64QAM	36	0	21.56	21.70	21.78			
15	64QAM	36	20	21.62	21.67	21.68	22	1.5	
15	64QAM	36	39	21.70	21.66	21.60			
15	64QAM	75	0	21.61	21.67	21.56			
Channel				30800	21100	21400	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2095	2335	2595			
10	QPSK	1	0	21.72	21.88	21.77	23.5	0	
10	QPSK	1	49	21.84	21.68	21.62			
10	QPSK	25	0	21.79	21.72	21.55			
10	QPSK	25	12	21.81	21.75	21.69	23.5	0	
10	QPSK	25	25	21.88	21.84	21.69			
10	QPSK	50	0	21.85	21.73	21.65			
10	16QAM	1	0	22.25	22.15	22.14	23.5	0	
10	16QAM	1	25	22.21	22.21	22.09			
10	16QAM	1	49	22.21	22.17	22.05			
10	16QAM	25	0	21.78	21.77	21.60			
10	16QAM	25	12	21.88	21.72	21.62	23	0.5	
10	16QAM	25	25	21.92	21.76	21.65			
10	16QAM	50	0	21.89	21.81	21.65			
10	64QAM	1	0	22.21	22.25	22.03	23	0.5	
10	64QAM	1	25	21.97	21.96	22.06			
10	64QAM	1	49	22.19	22.10	22.05			
10	64QAM	25	0	21.88	21.72	21.68	22	1.5	
10	64QAM	25	12	21.84	21.79	21.70			
10	64QAM	25	25	21.91	21.85	21.67			
10	64QAM	50	0	21.86	21.51	21.64			
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2092.5	2330	2597.5			
5	QPSK	1	0	21.77	21.52	21.60	23.5	0	
5	QPSK	1	12	21.79	21.56	21.60			
5	QPSK	1	24	21.67	21.74	21.79			
5	QPSK	12	0	21.61	21.77	21.83	23.5	0	
5	QPSK	12	7	21.66	21.70	21.83			
5	QPSK	12	13	21.53	21.79	21.84			
5	QPSK	25	0	21.52	21.66	21.87			
5	16QAM	1	0	21.99	21.91	22.23	23.5	0	
5	16QAM	1	12	22.04	22.12	21.95			
5	16QAM	1	24	22.01	21.91	21.99			
5	16QAM	12	0	21.61	21.76	21.89	23	0.5	
5	16QAM	12	7	21.61	21.73	21.86			
5	16QAM	12	13	21.59	21.76	21.89			
5	16QAM	25	0	21.58	21.69	21.77			
5	64QAM	1	0	22.10	22.05	22.20	23	0.5	
5	64QAM	1	12	22.00	21.80	21.91			
5	64QAM	1	24	22.11	21.83	22.25			
5	64QAM	12	0	21.53	21.56	21.90			
5	64QAM	12	7	21.54	21.67	21.98	22	1.5	
5	64QAM	12	13	21.52	21.70	21.84			
5	64QAM	25	0	21.63	21.72	21.88			

Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	20.87	20.85	20.87			
20	QPSK	1	49	20.86	20.76	20.77	21.5	0	
20	QPSK	1	99	20.92	20.70	20.74			
20	QPSK	50	0	21.00	20.99	21.00			
20	QPSK	50	24	20.89	20.98	20.88	21.5	0	
20	QPSK	50	50	20.78	20.92	20.98			
20	QPSK	100	0	21.00	20.70	20.98			
20	16QAM	1	0	21.36	21.30	21.34			
20	16QAM	1	49	21.10	21.34	21.15	21.5	0	
20	16QAM	1	99	20.95	20.99	21.26			
20	16QAM	50	0	21.04	20.92	21.03			
20	16QAM	50	24	20.98	20.92	20.96	21.5	0	
20	16QAM	50	50	20.85	20.95	20.97			
20	16QAM	100	0	20.98	20.89	20.97			
20	64QAM	1	0	21.22	20.96	20.93			
20	64QAM	1	49	21.01	20.90	20.85	21.5	0	
20	64QAM	1	99	21.19	21.01	20.94			
20	64QAM	50	0	20.81	20.81	20.99			
20	64QAM	50	24	20.80	20.83	21.05	21.5	0	
20	64QAM	50	50	20.75	21.02	20.87			
20	64QAM	100	0	20.77	20.92	20.95			
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	20.76	20.76	20.81	21.5	0	
15	QPSK	1	37	20.97	20.87	20.71			
15	QPSK	1	74	20.81	20.81	20.69			
15	QPSK	36	0	20.64	20.90	20.94			
15	QPSK	36	20	20.78	20.89	20.82	21.5	0	
15	QPSK	36	39	20.67	20.83	20.92			
15	QPSK	75	0	20.74	20.81	21.02			
15	16QAM	1	0	21.34	21.21	21.35	21.5	0	
15	16QAM	1	37	20.97	21.25	21.09			
15	16QAM	1	74	20.86	20.89	21.20			
15	16QAM	36	0	20.70	20.83	20.97			
15	16QAM	36	20	20.87	20.83	20.80	21.5	0	
15	16QAM	36	39	20.74	20.86	20.91			
15	16QAM	75	0	20.79	20.80	20.91			
15	64QAM	1	0	21.11	20.87	20.87	21.5	0	
15	64QAM	1	37	20.90	20.81	20.74			
15	64QAM	1	74	21.08	20.92	20.88			
15	64QAM	36	0	20.70	20.72	20.83			
15	64QAM	36	20	20.69	20.74	20.99	21.5	0	
15	64QAM	36	39	20.64	20.93	20.81			
15	64QAM	75	0	20.66	20.83	20.89			
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	20.84	20.86	20.75	21.5	0	
10	QPSK	1	25	20.97	20.99	20.65			
10	QPSK	1	49	20.49	20.51	20.63			
10	QPSK	25	0	20.54	20.82	20.88			
10	QPSK	25	12	20.66	20.79	20.76	21.5	0	
10	QPSK	25	25	20.57	20.75	20.86			
10	QPSK	50	0	20.62	20.51	20.96			
10	16QAM	1	0	21.32	21.15	21.29	21.5	0	
10	16QAM	1	25	21.23	21.16	21.03			
10	16QAM	1	49	20.94	21.20	21.14			
10	16QAM	25	0	20.58	20.73	20.91			
10	16QAM	25	12	20.77	20.75	20.84	21.5	0	
10	16QAM	25	25	20.62	20.76	20.85			
10	16QAM	50	0	20.69	20.72	20.85			
10	64QAM	1	0	20.99	20.77	20.87	21.5	0	
10	64QAM	1	25	20.86	20.73</				



CA Uplink

Full Power										
CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
21350	21152	QPSK	1	0	0	0	1	0	23.66	24
Reduced Power Mode for P-Sensor On										
CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
21100	20902	QPSK	1	0	0	0	1	0	17.41	19
Reduced Power Mode for Hotspot On										
CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	14.47	16
21100	20902	QPSK	1	0	0	0	1	0	14.56	16
21350	21152	QPSK	1	0	0	0	1	0	14.72	16
Reduced Power for Handheld On										
CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
21100	20902	QPSK	1	0	0	0	1	0	22.01	23.5

2CA DL

Configure	CA List	PCC							SCC				Power			
		LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	Tx. Power (dBm)	Tx. Power (dBm)		
		Band	(MHz)	Freq. (MHz)	Channel		RB	Offset	Band	(MHz)	Freq. (MHz)	Channel				
Inter-Band	CA_4A-7A	Band 4	20M	1745	20300	16QAM	1	99	Band 7	20M	2655	3100	23.21	23.86		
		Band 7	20M	2560	21350	16QAM	1	0	Band 4	20M	2132.5	2175	23.26	23.96		
	CA_5A-38A	Band 5	10M	836.5	20525	16QAM	1	0	Band 38	20M	2595	38000	22.86	23.52		
		Band 38	20M	2610	38150	QPSK	1	0	Band 5	10M	881.5	2525	23.01	23.50		
	CA_5A-41A	Band 5	10M	836.5	20525	16QAM	1	0	Band 41	20M	2593	40620	22.83	23.52		
		Band 41	20M	2593	40620	16QAM	1	0	Band 5	10M	881.5	2525	23.34	23.71		
	CA_5A-7A	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	22.91	22.97		
		Band 7	20M	2535	21100	QPSK	1	0	Band 5	10M	881.5	2525	23.65	23.80		
	Intra-Band	Contiguous	CA_7B	Band 7	15M	2535	21100	16QAM	1	0	Band 7	5M	2684.3	3193	23.62	23.86
			CA_7C	Band 7	20M	2560	21350	16QAM	1	0	Band 7	20M	2690.2	3152	23.61	23.96
CA_38C			Band 38	20M	2610	38150	QPSK	1	0	Band 38	20M	2590.2	37952	23.02	23.50	
CA_66B			Band 66	15M	1717.5	132047	16QAM	1	0	Band 66	5M	2121.8	66554	23.87	23.54	
CA_66C			Band 66	20M	1720	132072	16QAM	1	0	Band 66	20M	2139.8	66734	23.76	23.59	
Non-Contiguous		CA_4A-4A	Band 4	20M	1745	20300	16QAM	1	99	Band 4	5M	2112.5	1975	23.07	23.86	
		CA_7A-7A	Band 7	20M	2560	21350	16QAM	1	0	Band 7	5M	2622.5	2775	23.65	23.96	



3CA DL

<Inter-Band for Three Carrier Combination> (three bands)

Configure		PCC							SCC1				SCC2				Power	
		LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel		RB	Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx Power (dBm)	Tx Power (dBm)
Inter-Band	CA_2A-4A-5A	Band 2	20M	1880	1890	16QAM	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	23.82	23.94
		Band 4	20M	1745	2030	16QAM	1	99	Band 5	10M	881.5	2525	Band 2	20M	1960	900	23.23	23.88
		Band 5	10M	836.5	20525	16QAM	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.82	23.52
	CA_7A-66A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.76	23.8
		Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2555	3100	23.46	23.6



4CA DL

Configure	CA List	PCC						SCC1				SCC2				SCC3				Power		
		LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
Inter-Band	CA_7C-66A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 7	20M	2674.8	3298	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.76	23.8
		Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	23.55	23.6



Reduced Power Mode for Sensor On(EN-DC)

Band 5 (Cellular Band) Part 22H(only on channel required)											
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)			
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.					
Channel											
Frequency (MHz)				20450	20525	20600					
10	QPSK	1	0	18.74	18.10	18.68	20.5	0			
10	QPSK	1	25	18.84	18.62	18.83					
10	QPSK	1	49	18.70	18.77	18.66					
10	QPSK	25	0	18.71	18.82	18.69	20.5	0			
10	QPSK	25	12	18.80	18.71	18.76					
10	QPSK	25	25	18.75	18.73	18.67					
10	QPSK	50	0	18.80	18.82	18.76	20.5	0			
10	16QAM	1	0	19.02	19.04	19.02					
10	16QAM	1	25	19.02	18.98	18.97					
10	16QAM	1	49	19.02	18.97	18.89	20.5	0			
10	16QAM	25	0	18.77	18.79	18.75					
10	16QAM	25	12	18.84	18.76	18.80					
10	16QAM	25	25	18.81	18.78	18.71	20.5	0			
10	16QAM	50	0	18.81	18.74	18.79					
10	64QAM	1	0	18.92	18.95	18.96					
10	64QAM	1	25	18.85	18.87	18.87	20.5	0			
10	64QAM	1	49	18.87	18.84	18.79					
10	64QAM	25	0	18.78	18.77	18.69					
10	64QAM	25	12	18.84	18.79	18.77	20.5	0			
10	64QAM	25	25	18.77	18.76	18.72					
10	64QAM	50	0	18.82	18.75	18.78					
Channel											
Frequency (MHz)				20425	20525	20525	Tune-up limit (dBm)	MPR (dB)			
5	QPSK	1	0	18.79	18.78	18.70	20.5	0			
5	QPSK	1	12	18.72	18.79	18.73					
5	QPSK	1	24	18.70	18.71	18.52					
5	QPSK	12	0	18.88	18.83	18.68	20.5	0			
5	QPSK	12	7	18.86	18.79	18.65					
5	QPSK	12	13	18.77	18.74	18.67					
5	QPSK	25	0	18.85	18.75	18.66	20.5	0			
5	16QAM	1	0	19.01	18.79	18.66					
5	16QAM	1	12	18.88	18.83	18.59					
5	16QAM	1	24	19.06	19.08	18.89	20.5	0			
5	16QAM	12	0	18.92	18.87	18.72					
5	16QAM	12	7	18.84	18.82	18.67					
5	16QAM	12	13	18.81	18.79	18.66	20.5	0			
5	16QAM	25	0	18.88	18.83	18.69					
5	64QAM	1	0	19.03	18.97	18.79					
5	64QAM	1	12	19.02	18.93	18.79	20.5	0			
5	64QAM	1	24	18.99	18.98	18.76					
5	64QAM	12	0	18.87	18.86	18.74					
5	64QAM	12	7	18.84	18.81	18.71	20.5	0			
5	64QAM	12	13	18.82	18.79	18.68					
5	64QAM	25	0	18.88	18.83	18.70					
Channel											
Frequency (MHz)				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)			
3	QPSK	1	0	18.86	18.75	18.71	20.5	0			
3	QPSK	1	8	18.81	18.77	18.66					
3	QPSK	1	14	18.70	18.67	18.54					
3	QPSK	8	0	18.89	18.83	18.73	20.5	0			
3	QPSK	8	4	18.89	18.87	18.75					
3	QPSK	8	7	18.80	18.78	18.68					
3	QPSK	15	0	18.85	18.78	18.69	20.5	0			
3	16QAM	1	0	19.09	18.89	18.74					
3	16QAM	1	8	19.00	18.84	18.75					
3	16QAM	1	14	19.07	19.07	18.88	20.5	0			
3	16QAM	8	0	18.93	18.87	18.77					
3	16QAM	8	4	18.92	18.92	18.77					
3	16QAM	8	7	18.89	18.89	18.74	20.5	0			
3	16QAM	15	0	18.90	18.84	18.75					
3	64QAM	1	0	19.01	18.77	18.66					
3	64QAM	1	8	19.04	19.04	18.90	20.5	0			
3	64QAM	1	14	18.95	18.93	18.84					
3	64QAM	8	0	18.92	18.86	18.78					
3	64QAM	8	4	18.89	18.92	18.75	20.5	0			
3	64QAM	8	7	18.86	18.82	18.72					
3	64QAM	15	0	18.85	18.81	18.73					
Channel											
Frequency (MHz)				20707	20525	20643	Tune-up limit (dBm)	MPR (dB)			
1.4	QPSK	1	0	18.75	18.65	18.52	20.5	0			
1.4	QPSK	1	3	18.78	18.74	18.59					
1.4	QPSK	1	5	18.73	18.68	18.69					
1.4	QPSK	3	0	18.78	18.68	18.60	20.5	0			
1.4	QPSK	3	1	18.79	18.72	18.60					
1.4	QPSK	3	3	18.74	18.67	18.52					
1.4	QPSK	6	0	18.90	18.69	18.59	20.5	0			
1.4	16QAM	1	0	19.03	18.99	18.85					
1.4	16QAM	1	3	19.08	19.07	18.90					
1.4	16QAM	1	5	19.03	18.97	18.79	20.5	0			
1.4	16QAM	3	0	18.87	18.79	18.67					
1.4	16QAM	3	1	18.90	18.80	18.67					
1.4	16QAM	3	3	18.83	18.80	18.59	20.5	0			
1.4	16QAM	6	0	18.89	18.83	18.73					
1.4	64QAM	1	0	19.06	18.89	18.75					
1.4	64QAM	1	3	18.98	18.94	18.75	20.5	0			
1.4	64QAM	1	5	18.89	18.88	18.65					
1.4	64QAM	3	0	18.87	18.78	18.66					
1.4	64QAM	3	1	18.89	18.83	18.72	20.5	0			
1.4	64QAM	3	3	18.87	18.79	18.67					
1.4	64QAM	6	0	18.83	18.74	18.66					

Band 66											
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)			
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.					
Channel											
Frequency (MHz)				132072	132322	132572					
20	QPSK	1	0	11.78	12.45	11.83	13.5	0			
20	QPSK	1	49	12.07	12.12	11.83					
20	QPSK	1	99	12.08	12.12	11.78					
20	QPSK	50	0	11.76	12.02	11.97	13.5	0			
20	QPSK	50	24	11.80	11.76	11.93					
20	QPSK	50	50	11.77	11.75	11.96					
20	QPSK	100	0	11.83	12.09	11.94	13.5	0			
20	16QAM	1	0	11.90	12.12	12.23					
20	16QAM	1	49	11.74	11.94	12.12					
20	16QAM	1	99	11.82	12.08	12.17	13.5	0			
20	16QAM	50	0	11.98	11.80	11.99					
20	16QAM	50	24	11.87	11.80	11.99					
20	16QAM	50	50	11.79	11.74	12.00	13.5	0			
20	16QAM	100	0	11.77	11.82	11.96					
20	64QAM	1	0	12.00	11.98	12.10					
20	64QAM	1	49	11.81	11.89	12.05	13.5	0			
20	64QAM	1	99	11.82	11.95	12.02					
20	64QAM	50	0	11.79	11.78	12.01					
20	64QAM	50	24	11.85	11.80	11.98	13.5	0			
20	64QAM	50	50	11.78	11.77	12.00					
20	64QAM	100	0	11.84	11.81	11.97					
Channel											
Frequency (MHz)				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)			
15	QPSK	1	0	11.75	12.45	11.75	13.5	0			
15	QPSK	1	37	11.67	11.66	11.89					
15	QPSK	1	74	11.69	11.73	11.83					
15	QPSK	36	0	11.88	11.81	12.01	13.5	0			
15	QPSK	36	20	11.82	11.82	11.99					
15	QPSK	36	39	11.80	11.79	12.04					
15	QPSK	75	0	11.84	11.80	12.01	13.5	0			
15	16QAM	1	0	12.14	12.15	11.84					
15	16QAM	1	37	12.08	12.05	12.14					
15	16QAM	1	74	12.03	12.07	12.08	13.5	0			
15	16QAM	36	0	11.91	11.81	12.04					
15	16QAM	36	20	11.85	11.81	11.97					
15	16QAM	36	39	11.84	11.83	12.04	13.5	0			
15	16QAM	75	0	11.87	11.86	12.01					
15	64QAM	1	0	11.98	11.89	12.18					
15	64QAM	1	37	11.79	11.						



Reduced Power Mode for Hotspot On(EN-DC)

Band 5 (Cellular Band) Part 22H(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	18.74	18.10	18.66	20.5	0	
10	QPSK	1	25	18.54	18.62	18.83			
10	QPSK	1	49	18.70	18.77	18.86			
10	QPSK	25	0	18.71	18.82	18.69			
10	QPSK	25	12	18.80	18.71	18.76	20.5	0	
10	QPSK	25	25	18.75	18.73	18.67			
10	QPSK	50	0	18.80	18.82	18.76			
10	16QAM	1	0	19.02	19.04	19.02			
10	16QAM	1	25	19.02	18.98	18.97	20.5	0	
10	16QAM	1	49	19.02	18.97	18.99			
10	16QAM	25	0	18.77	18.79	18.75			
10	16QAM	25	12	18.84	18.76	18.80	20.5	0	
10	16QAM	25	25	18.81	18.78	18.71			
10	16QAM	50	0	18.81	18.74	18.79			
10	64QAM	1	0	18.92	18.95	18.96			
10	64QAM	1	25	18.85	18.87	18.87	20.5	0	
10	64QAM	1	49	18.87	18.84	18.79			
10	64QAM	25	0	18.76	18.77	18.69			
10	64QAM	25	12	18.84	18.79	18.77	20.5	0	
10	64QAM	25	25	18.77	18.76	18.72			
10	64QAM	50	0	18.82	18.75	18.78			
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	18.79	18.78	18.70	20.5	0	
5	QPSK	1	12	18.72	18.79	18.63			
5	QPSK	1	24	18.70	18.71	18.52			
5	QPSK	12	0	18.88	18.83	18.68			
5	QPSK	12	7	18.86	18.79	18.65	20.5	0	
5	QPSK	12	13	18.77	18.74	18.67			
5	QPSK	25	0	18.85	18.75	18.66			
5	16QAM	1	0	18.81	18.79	18.66			
5	16QAM	1	12	18.88	18.83	18.69	20.5	0	
5	16QAM	1	24	18.96	18.98	18.69			
5	16QAM	12	0	18.92	18.87	18.72			
5	16QAM	12	7	18.84	18.82	18.67	20.5	0	
5	16QAM	12	13	18.81	18.79	18.66			
5	16QAM	25	0	18.88	18.83	18.69			
5	64QAM	1	0	19.03	18.97	18.79			
5	64QAM	1	12	19.02	18.97	18.78	20.5	0	
5	64QAM	1	24	18.99	18.91	18.76			
5	64QAM	12	0	18.87	18.86	18.74			
5	64QAM	12	7	18.84	18.81	18.71	20.5	0	
5	64QAM	12	13	18.82	18.79	18.68			
5	64QAM	25	0	18.88	18.83	18.70			
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	18.86	18.75	18.71	20.5	0	
3	QPSK	1	8	18.81	18.77	18.66			
3	QPSK	1	14	18.70	18.67	18.54			
3	QPSK	8	0	18.89	18.83	18.73			
3	QPSK	8	4	18.89	18.87	18.75	20.5	0	
3	QPSK	8	7	18.80	18.78	18.68			
3	QPSK	15	0	18.85	18.76	18.69			
3	16QAM	1	0	18.89	18.89	18.74	20.5	0	
3	16QAM	1	8	18.96	18.84	18.75			
3	16QAM	1	14	19.07	19.07	18.86			
3	16QAM	8	0	18.93	18.87	18.77			
3	16QAM	8	4	18.92	18.92	18.77	20.5	0	
3	16QAM	8	7	18.89	18.89	18.74			
3	16QAM	15	0	18.90	18.84	18.75			
3	64QAM	1	0	18.81	18.77	18.66			
3	64QAM	1	8	18.94	19.04	18.90	20.5	0	
3	64QAM	1	14	18.95	18.93	18.84			
3	64QAM	8	0	18.92	18.86	18.78			
3	64QAM	8	4	18.89	18.92	18.75	20.5	0	
3	64QAM	8	7	18.86	18.82	18.72			
3	64QAM	15	0	18.85	18.81	18.73			
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	18.76	18.65	18.52	20.5	0	
1.4	QPSK	1	3	18.78	18.74	18.59			
1.4	QPSK	1	5	18.73	18.68	18.69			
1.4	QPSK	3	0	18.78	18.68	18.60			
1.4	QPSK	3	1	18.79	18.72	18.60	20.5	0	
1.4	QPSK	3	3	18.74	18.67	18.52			
1.4	QPSK	6	0	18.80	18.69	18.59			
1.4	16QAM	1	0	19.03	18.99	18.85	20.5	0	
1.4	16QAM	1	3	19.08	19.07	18.90			
1.4	16QAM	1	5	19.03	18.97	18.79			
1.4	16QAM	3	0	18.87	18.79	18.67	20.5	0	
1.4	16QAM	3	1	18.90	18.80	18.67			
1.4	16QAM	3	3	18.83	18.80	18.59			
1.4	16QAM	6	0	18.89	18.83	18.73	20.5	0	
1.4	64QAM	1	0	18.96	18.89	18.75			
1.4	64QAM	1	3	18.98	18.94	18.75			
1.4	64QAM	1	5	18.89	18.86	18.65	20.5	0	
1.4	64QAM	3	0	18.87	18.78	18.66			
1.4	64QAM	3	1	18.89	18.83	18.72			
1.4	64QAM	3	3	18.87	18.79	18.67	20.5	0	
1.4	64QAM	6	0	18.83	18.74	18.66			

Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	11.59	11.88	11.63	12	0	
20	QPSK	1	49	11.63	11.53	11.50			
20	QPSK	1	99	11.45	11.57	11.44			
20	QPSK	50	0	11.58	11.73	11.70			
20	QPSK	50	24	11.61	11.54	11.67	12	0	
20	QPSK	50	50	11.57	11.50	11.69			
20	QPSK	100	0	11.61	11.75	11.69			
20	16QAM	1	0	11.53	11.70	11.72			
20	16QAM	1	49	11.72	11.67	11.46	12	0	
20	16QAM	1	99	11.46	11.73	11.61			
20	16QAM	50	0	11.57	11.50	11.73			
20	16QAM	50	24	11.60	11.54	11.70	12	0	
20	16QAM	50	50	11.55	11.50	11.70			
20	16QAM	100	0	11.59	11.53	11.67			
20	64QAM	1	0	11.79	11.72	11.73			
20	64QAM	1	49	11.59	11.46	11.69	12	0	
20	64QAM	1	99	11.46	11.57	11.59			
20	64QAM	50	0	11.57	11.50	11.70			
20	64QAM	50	24	11.60	11.53	11.70	12	0	
20	64QAM	50	50	11.54	11.50	11.68			
20	64QAM	100	0	11.58	11.50	11.69			
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	11.50	11.47	11.62	12	0	
15	QPSK	1	37	11.43	11.36	11.55			
15	QPSK	1	74	11.41	11.30	11.52			
15	QPSK	36	0	11.54	11.50	11.72			
15	QPSK	36	20	11.60	11.51	11.66	12	0	
15	QPSK	36	39	11.58	11.51	11.58			
15	QPSK	75	0	11.61	11.55	11.61			
15	16QAM	1	0	11.86	11.80	11.86			
15	16QAM	1	37	11.75	11.66	11.83	12	0	
15	16QAM	1	74	11.79	11.72	11.76			
15	16QAM	36	0	11.66	11.54	11.59			
15	16QAM	36	20	11.62	11.53	11.66	12	0	
15	16QAM	36	39	11.59	11.51	11.73			
15	16QAM	75	0	11.63	11.56	11.66			
15	64QAM	1	0	11.76	11.66	11.84			
15	64QAM	1	37	11.59	11.49	11.74	12	0	
15	64QAM	1	74	11.59	11.55	11.70			
15	64QAM	36	0	11.65	11.52	11.71			
15	64QAM	36	20	11.60	11.53	11.65	12	0	
15	64QAM	36							



Reduced Power Mode for Handheld On(EN-DC)

Band 5 (Cellular Band)									
Part 22(only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				20450	20525	20600			
Frequency (MHz)				1722	1745	1770			
10	QPSK	1	0	22.32	22.52	22.17	23.5	0	
10	QPSK	1	25	22.28	22.23	22.15			
10	QPSK	1	49	22.23	22.19	22.08			
10	QPSK	25	0	22.36	22.48	22.27			
10	QPSK	25	12	22.43	22.32	22.32	23	0.5	
10	QPSK	25	25	22.40	22.34	22.27			
10	QPSK	50	0	22.34	22.43	22.33			
10	16QAM	1	0	22.23	22.19	22.08			
10	16QAM	1	25	22.32	22.32	22.27	23	0.5	
10	16QAM	1	49	22.34	22.27	22.45			
10	16QAM	25	0	21.37	21.37	21.25			
10	16QAM	25	12	21.46	21.35	21.33	22	1.5	
10	16QAM	25	25	21.38	21.37	21.19			
10	16QAM	50	0	21.46	21.34	21.35			
10	64QAM	1	0	21.86	21.75	21.68			
10	64QAM	1	25	21.69	21.64	21.57	22	1.5	
10	64QAM	1	49	21.66	21.59	21.52			
10	64QAM	25	0	20.37	20.37	20.27			
10	64QAM	25	12	20.44	20.35	20.36			
10	64QAM	25	25	20.41	20.36	20.22	21	2.5	
10	64QAM	50	0	20.41	20.33	20.37			
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	22.39	22.31	22.21	23.5	0	
5	QPSK	1	12	22.29	22.28	22.15			
5	QPSK	1	24	22.29	22.24	22.08			
5	QPSK	12	0	22.42	22.36	22.25			
5	QPSK	12	7	22.42	22.36	22.19	23	0.5	
5	QPSK	12	13	22.32	22.29	22.25			
5	QPSK	25	0	22.38	22.31	22.18			
5	16QAM	1	0	22.42	22.36	22.19			
5	16QAM	1	12	22.32	22.29	22.22	23	0.5	
5	16QAM	1	24	22.29	22.24	22.08			
5	16QAM	12	0	21.46	21.43	21.40			
5	16QAM	12	7	21.42	21.38	21.37	22	1.5	
5	16QAM	12	13	21.37	21.35	21.34			
5	16QAM	25	0	21.40	21.34	21.56			
5	64QAM	1	0	21.69	21.56	21.47			
5	64QAM	1	12	21.54	21.55	21.34	22	1.5	
5	64QAM	1	24	21.49	21.51	21.35			
5	64QAM	12	0	20.42	20.40	20.66			
5	64QAM	12	7	20.39	20.34	20.72			
5	64QAM	12	13	20.37	20.28	20.78	21	2.5	
5	64QAM	25	0	20.43	20.33	20.74			
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	22.35	22.28	22.21	23.5	0	
3	QPSK	1	8	22.34	22.36	22.17			
3	QPSK	1	14	22.27	22.20	22.06			
3	QPSK	8	0	22.44	22.34	22.23			
3	QPSK	8	4	22.41	22.41	22.25	23	0.5	
3	QPSK	8	7	22.31	22.36	22.17			
3	QPSK	15	0	22.36	22.32	22.21			
3	16QAM	1	0	22.34	22.23	22.41			
3	16QAM	1	8	22.41	22.25	22.51	23	0.5	
3	16QAM	1	14	22.23	22.23	22.42			
3	16QAM	8	0	21.47	21.45	21.39			
3	16QAM	8	4	21.47	21.46	21.28	22	1.5	
3	16QAM	8	7	21.41	21.42	21.03			
3	16QAM	15	0	21.42	21.36	21.44			
3	64QAM	1	0	21.59	21.53	21.47			
3	64QAM	1	8	21.62	21.58	21.42	22	1.5	
3	64QAM	1	14	21.51	21.46	21.37			
3	64QAM	8	0	20.46	20.39	20.64			
3	64QAM	8	4	20.43	20.42	20.73	21	2.5	
3	64QAM	8	7	20.38	20.36	20.66			
3	64QAM	15	0	20.41	20.30	20.75			
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	22.33	22.19	22.08	23.5	0	
1.4	QPSK	1	3	22.35	22.28	22.10			
1.4	QPSK	1	5	22.24	22.22	22.02			
1.4	QPSK	3	0	22.35	22.24	22.09			
1.4	QPSK	3	1	22.34	22.27	22.11			
1.4	QPSK	3	3	22.32	22.23	22.09			
1.4	QPSK	6	0	22.37	22.28	22.14	23	0.5	
1.4	16QAM	1	0	22.30	22.18	22.43			
1.4	16QAM	1	3	22.24	22.09	22.44			
1.4	16QAM	1	5	22.27	22.11	22.29	23	0.5	
1.4	16QAM	3	0	22.41	22.30	22.18			
1.4	16QAM	3	1	22.48	22.34	22.22			
1.4	16QAM	3	3	22.36	22.35	22.12			
1.4	16QAM	6	0	21.44	21.34	21.06	22	1.5	
1.4	64QAM	1	0	21.55	21.46	21.32			
1.4	64QAM	1	3	21.58	21.58	21.37			
1.4	64QAM	1	5	21.52	21.45	21.31	22	1.5	
1.4	64QAM	3	0	21.47	21.36	21.23			
1.4	64QAM	3	1	21.48	21.42	21.25			
1.4	64QAM	3	3	21.41	21.36	21.16			
1.4	64QAM	6	0	20.41	20.29	20.46	21	2.5	

Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132222	132572			
Frequency (MHz)				1722	1745	1770			
20	QPSK	1	0	16.61	17.03	16.61	18	0	
20	QPSK	1	49	16.62	16.88	16.62			
20	QPSK	1	99	16.69	16.77	16.64			
20	QPSK	50	0	16.60	16.88	16.72			
20	QPSK	50	24	16.64	16.63	16.68	18	0	
20	QPSK	50	50	16.60	16.57	16.69			
20	QPSK	100	0	16.64	16.84	16.74			
20	16QAM	1	0	17.00	16.69	16.92			
20	16QAM	1	49	16.81	16.75	16.89	18	0	
20	16QAM	1	99	16.79	16.75	16.81			
20	16QAM	50	0	16.65	16.60	16.77			
20	16QAM	50	24	16.71	16.63	16.72	18	0	
20	16QAM	50	50	16.65	16.62	16.74			
20	16QAM	100	0	16.69	16.64	16.74			
20	64QAM	1	0	16.89	16.83	16.93			
20	64QAM	1	49	16.79	16.67	16.79	18	0	
20	64QAM	1	99	16.67	16.75	16.76			
20	64QAM	50	0	16.62	16.59	16.73			
20	64QAM	50	24	16.70	16.62	16.68	18	0	
20	64QAM	50	50	16.65	16.58	16.73			
20	64QAM	100	0	16.70	16.62	16.74			
Channel				132047	132222	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	16.48	16.41	16.58	18	0	
15	QPSK	1	37	16.29	16.29	16.45			
15	QPSK	1	74	16.39	16.37	16.43			
15	QPSK	36	0	16.43	16.49	16.62			
15	QPSK	36	20	16.46	16.51	16.67	18	0	
15	QPSK	36	39	16.52	16.50	16.63			
15	QPSK	75	0	16.46	16.51	16.64			
15	16QAM	1	0	16.80	16.79	16.96			
15	16QAM	1	37	16.69	16.69	16.84	18	0	
15	16QAM	1	74	16.79	16.69	16.79			
15	16QAM	36	0	16.55	16.50	16.66			
15	16QAM	36	20	16.49	16.51	16.71	18	0	
15	16QAM	36	39	16.57	16.52	16.67			
15	16QAM	75	0	16.52	16.52	16.64			
15	64QAM	1	0	16.92	16.68	17.02			
15	64QAM	1	37	16.80	16.54	16.69	18	0	
15	64QAM	1	74	16.83	16.67	16.64			
15	64QAM	36	0	16.54	16.48	16.68			
15	64QAM	36	20	16.52	16.52	16.69	18	0	
15	64QAM	36	39	16.56	16.49	16.64			



Full Power Mode

n7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.46	23.49	23.39	24.0	0.0
20	PI/2 BPSK	1	53	23.37	23.39	23.32		
20	PI/2 BPSK	1	104	23.29	23.40	23.36		
20	PI/2 BPSK	50	0	22.89	22.93	22.83	23.5	0.0
20	PI/2 BPSK	50	28	23.40	23.47	23.43	24.0	
20	PI/2 BPSK	50	56	22.84	22.87	22.81	23.5	
20	PI/2 BPSK	100	0	22.91	22.94	22.89	23.5	0.5
20	QPSK	1	1	23.61	23.68	23.59	24.0	0.0
20	QPSK	1	53	23.43	23.61	23.58		
20	QPSK	1	104	23.47	23.52	23.49		
20	QPSK	50	0	22.43	22.51	22.47	23.5	0.0
20	QPSK	50	28	23.41	23.50	23.43	24.0	
20	QPSK	50	56	22.32	22.38	22.32	23.5	
20	QPSK	100	0	22.43	22.48	22.29	23.0	1.0
20	16QAM	1	1	22.57	22.71	22.65	23.0	1.0
20	64QAM	1	1	21.20	21.23	21.19	21.5	2.5
20	256QAM	1	1	18.76	18.90	18.84	19.5	4.5
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	23.43	23.50	23.46	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	23.41	23.48	23.43	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	23.42	23.47	23.45	24.0	0.0



Reduced Power Mode for Receiver On

n7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	14.56	14.64	14.58	16.0	0.0
20	PI/2 BPSK	1	53	14.73	14.70	14.73		
20	PI/2 BPSK	1	104	14.54	14.59	14.62		
20	PI/2 BPSK	50	0	14.53	14.59	14.53	16.0	0.0
20	PI/2 BPSK	50	28	14.67	14.69	14.62		
20	PI/2 BPSK	50	56	14.52	14.58	14.54		
20	PI/2 BPSK	100	0	14.57	14.59	14.53	16.0	0.0
20	QPSK	1	1	14.76	14.82	14.74	16.0	0.0
20	QPSK	1	53	14.74	14.78	14.72		
20	QPSK	1	104	14.53	14.56	14.58		
20	QPSK	50	0	14.63	14.70	14.68	16.0	0.0
20	QPSK	50	28	14.65	14.65	14.63		
20	QPSK	50	56	14.54	14.59	14.53		
20	QPSK	100	0	14.67	14.70	14.64	16.0	0.0
20	16QAM	1	1	14.62	14.64	14.61	16.0	0.0
20	64QAM	1	1	14.54	14.31	14.47	16.0	0.0
20	256QAM	1	1	14.56	14.67	14.53	16.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	14.71	14.72	14.68	16.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	14.62	14.52	14.58	16.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	14.63	14.66	14.69	16.0	0.0



Reduced Power Mode for Sensor On

n7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	0	0	15.95	16.06	15.98	17.0	0.0
20	PI/2 BPSK	0	0	16.05	16.03	16.01		
20	PI/2 BPSK	0	0	15.87	15.90	15.93		
20	PI/2 BPSK	0	0	15.97	16.01	16.03	17.0	0.0
20	PI/2 BPSK	0	0	15.95	15.98	15.99		
20	PI/2 BPSK	0	0	15.95	16.02	16.01		
20	PI/2 BPSK	0	0	15.92	15.99	15.93	17.0	0.0
20	QPSK	1	1	15.98	16.09	15.92	17.0	0.0
20	QPSK	1	53	15.95	16.06	15.98		
20	QPSK	1	104	15.98	16.03	15.93		
20	QPSK	50	0	16.04	16.07	15.99	17.0	0.0
20	QPSK	50	28	16.01	16.05	15.95		
20	QPSK	50	56	15.95	16.04	16.03		
20	QPSK	100	0	16.02	16.04	16.01	17.0	0.0
20	16QAM	1	1	15.96	15.94	15.91	17.0	0.0
20	64QAM	1	1	15.92	15.99	15.98	17.0	0.0
20	256QAM	1	1	15.95	16.02	15.94	17.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	15.87	15.81	15.91	17.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	15.89	15.96	15.94	17.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	15.96	15.92	15.93	17.0	0.0



Reduced Power Mode for Hotspot On

n7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	15.55	15.66	15.58	17.0	0.0
20	PI/2 BPSK	1	53	15.71	15.69	15.68		
20	PI/2 BPSK	1	104	15.61	15.65	15.68		
20	PI/2 BPSK	50	0	15.59	15.63	15.63	17.0	0.0
20	PI/2 BPSK	50	28	15.58	15.62	15.63		
20	PI/2 BPSK	50	56	15.57	15.63	15.64		
20	PI/2 BPSK	100	0	15.59	15.66	15.61	17.0	0.0
20	QPSK	1	1	15.72	15.83	15.66	17.0	0.0
20	QPSK	1	53	15.67	15.79	15.71		
20	QPSK	1	104	15.64	15.69	15.58		
20	QPSK	50	0	15.61	15.69	15.56	17.0	0.0
20	QPSK	50	28	15.64	15.68	15.59		
20	QPSK	50	56	15.57	15.66	15.65		
20	QPSK	100	0	15.67	15.69	15.66	17.0	0.0
20	16QAM	1	1	15.82	15.80	15.76	17.0	0.0
20	64QAM	1	1	15.79	15.68	15.67	17.0	0.0
20	256QAM	1	1	15.37	15.46	15.34	17.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	15.70	15.78	15.82	17.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	15.65	15.75	15.88	17.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	15.58	15.69	15.75	17.0	0.0



Reduced Power Mode for Handheld On

n7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	17.96	18.09	18.03	19.0	0.0
20	PI/2 BPSK	1	53	18.13	18.11	18.08		
20	PI/2 BPSK	1	104	18.11	18.13	18.15		
20	PI/2 BPSK	50	0	17.99	18.03	18.05	19.0	0.0
20	PI/2 BPSK	50	28	18.03	18.05	18.05		
20	PI/2 BPSK	50	56	18.00	18.07	18.05		
20	PI/2 BPSK	100	0	17.98	18.03	17.98	19.0	0.0
20	QPSK	1	1	17.95	18.19	17.95	19.0	0.0
20	QPSK	1	53	17.99	18.10	17.96		
20	QPSK	1	104	18.12	18.12	18.06		
20	QPSK	50	0	18.03	18.16	17.98	19.0	0.0
20	QPSK	50	28	18.07	18.11	18.01		
20	QPSK	50	56	17.93	18.04	18.03		
20	QPSK	100	0	18.09	18.11	18.09	19.0	0.0
20	16QAM	1	1	17.75	17.74	17.71	19.0	0.0
20	64QAM	1	1	18.11	18.15	18.14	19.0	0.0
20	256QAM	1	1	17.66	17.73	17.65	19.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	18.07	18.16	18.02	19.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	17.85	17.98	18.04	19.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	18.01	18.07	18.03	19.0	0.0



2.4GHz WLAN MIMO	Default Power Table (Max Power) WWAN Off & At Head Power Table 4					
Mode	Channel	Frequency (MHz)	Average power (dBm) [1+2]	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	22.58	23.00	100.00
		6	2437	21.94	23.00	
		11	2462	22.07	23.00	
802.11g 6Mbps	1	2412	20.18	21.00	98.28	
		6	2437	19.56		21.00
		11	2462	19.71		21.00
802.11n-HT20 MCS0	1	2412	19.96	21.00	98.16	
		6	2437	19.36		21.00
		11	2462	19.54		21.00

2.4GHz WLAN MIMO	WWAN off & Body Worn Power Table 6					
Mode	Channel	Frequency (MHz)	Average power (dBm) [1+2]	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	19.03	19.50	100.00
		6	2437	18.36	19.50	
		11	2462	18.42	19.50	
802.11g 6Mbps	1	2412	19.50	19.50	98.28	
		6	2437	19.50		19.50
		11	2462	19.50		19.50
802.11n-HT20 MCS0	1	2412	Not Required	19.50	98.16	
		6	2437	19.50		19.50
		11	2462	19.50		19.50

2.4GHz WLAN MIMO	WWAN On & At Head Power Table 5 WWAN On & Body Worn Power Table 7 MHS (Mobile Hotspot) & Power Table 2 WWAN On & Handheld Power Table 1					
Mode	Channel	Frequency (MHz)	Average power (dBm) [1+2]	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	13.89	14.00	100.00
		6	2437	13.26	14.00	
		11	2462	13.50	14.00	
802.11g 6Mbps	1	2412	14.00	14.00	98.28	
		6	2437	14.00		14.00
		11	2462	14.00		14.00
802.11n-HT20 MCS0	1	2412	Not Required	14.00	98.16	
		6	2437	14.00		14.00
		11	2462	14.00		14.00

5GHz WLAN MIMO	Default Power Table (Max Power) WWAN Off & At Head Power Table 4					
Mode	Channel	Frequency (MHz)	Average power (dBm) [1+2]	Tune-Up Limit	Duty Cycle %	
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.21	20.50	98.28
		40	5200	19.68	20.50	
		44	5220	20.13	21.00	
		48	5240	20.71	21.00	
802.11n-HT20 MCS0	36	5180	18.12	18.50	98.16	
		40	5200	18.50		19.50
		44	5220	19.02		19.50
802.11n-HT40 MCS0	38	5190	14.35	15.00	96.32	
		46	5230	19.68		20.00
		36	5180	18.08		18.00
802.11ac-VHT20 MCS0	40	5200	18.45	19.00	98.16	
		44	5220	19.05		19.50
		48	5240	19.51		20.00
802.11ac-VHT40 MCS0	38	5190	14.42	15.00	96.32	
		46	5230	19.72		20.50
		42	5210	12.47		13.00

5GHz WLAN MIMO	WWAN off & Body Worn Power Table 6					
Mode	Channel	Frequency (MHz)	Average power (dBm) [1+2]	Tune-Up Limit	Duty Cycle %	
5.2GHz WLAN	802.11a 6Mbps	36	5180	17.50	17.50	98.28
		40	5200	17.50	17.50	
		44	5220	17.50	17.50	
		48	5240	17.50	17.50	
802.11n-HT20 MCS0	36	5180	17.50	17.50	98.16	
		40	5200	17.50		17.50
		44	5220	17.50		17.50
802.11n-HT40 MCS0	38	5190	Not Required	15.00	96.32	
		46	5230	17.50		17.50
		36	5180	17.50		17.50
802.11ac-VHT20 MCS0	40	5200	17.50	17.50	98.16	
		44	5220	17.50		17.50
		48	5240	17.50		17.50
802.11ac-VHT40 MCS0	38	5190	15.00	15.00	96.32	
		46	5230	17.50		17.50
		42	5210	13.00		13.00

5GHz WLAN MIMO	WWAN On & At Head Power Table 5 WWAN On & Body Worn Power Table 7 MHS (Mobile Hotspot) & Power Table 2 WWAN On & Handheld Power Table 1					
Mode	Channel	Frequency (MHz)	Average power (dBm) [1+2]	Tune-Up Limit	Duty Cycle %	
5.2GHz WLAN	802.11a 6Mbps	36	5180	12.50	12.50	98.28
		40	5200	12.50	12.50	
		44	5220	12.50	12.50	
		48	5240	12.50	12.50	
802.11n-HT20 MCS0	36	5180	12.50	12.50	98.16	
		40	5200	12.50		12.50
		44	5220	12.50		12.50
802.11n-HT40 MCS0	38	5190	Not Required	12.50	96.32	
		46	5230	12.50		12.50
		36	5180	12.50		12.50
802.11ac-VHT20 MCS0	40	5200	12.50	12.50	98.16	
		44	5220	12.50		12.50
		48	5240	12.50		12.50
802.11ac-VHT40 MCS0	38	5190	12.50	12.50	96.32	
		46	5230	12.50		12.50
		42	5210	12.47		12.50

5GHz WLAN MIMO	Default Power Table (Max Power) WWAN Off & At Head Power Table 4					
Mode	Channel	Frequency (MHz)	Average power (dBm) [1+2]	Tune-Up Limit	Duty Cycle %	
5.3GHz WLAN	802.11a 6Mbps	52	5260	19.95	21.00	98.28
		56	5280	19.70	21.00	
		60	5300	19.29	20.50	
		64	5320	19.09	20.50	
802.11n-HT20 MCS0	52	5260	18.76	19.00	98.16	
		56	5280	18.56		19.00
		60	5300	18.00		18.50
802.11n-HT40 MCS0	54	5270	19.10	19.50	96.32	
		62	5310	16.63		17.00
		52	5260	18.76		19.00
802.11ac-VHT20 MCS0	56	5280	18.54	19.00	98.16	
		60	5300	18.10		18.50
		64	5320	18.01		18.00
802.11ac-VHT40 MCS0	54	5270	19.18	19.50	96.32	
		62	5310	16.61		17.00
		58	5290	14.01		14.50

5GHz WLAN MIMO	WWAN off & Body Worn Power Table 6					
Mode	Channel	Frequency (MHz)	Average power (dBm) [1+2]	Tune-Up Limit	Duty Cycle %	
5.3GHz WLAN	802.11a 6Mbps	52	5260	17.50	17.50	98.28
		56	5280	17.50	17.50	
		60	5300	17.50	17.50	
		64	5320	17.50	17.50	
802.11n-HT20 MCS0	52	5260	Not Required	17.50	98.16	
		56	5280	17.50		17.50
		60	5300	17.50		17.50
802.11n-HT40 MCS0	54	5270	17.00	17.50	96.32	
		62	5310	16.63		17.00
		52	5260	17.50		17.50
802.11ac-VHT20 MCS0	56	5280	17.50	17.50	98.16	
		60	5300	17.50		17.50
		64	5320	17.50		17.50
802.11ac-VHT40 MCS0	54	5270	17.50	17.50	96.32	
		62	5310	17.00		17.50
		58	5290	14.50		14.50

5GHz WLAN MIMO	WWAN On & At Head Power Table 5 WWAN On & Body Worn Power Table 7 WWAN On & Handheld Power Table 1					
Mode	Channel	Frequency (MHz)	Average power (dBm) [1+2]	Tune-Up Limit	Duty Cycle %	
5.3GHz WLAN	802.11a 6Mbps	52	5260	13.50	13.50	98.28
		56	5280	13.50	13.50	
		60	5300	13.50	13.50	
		64	5320	13.50	13.50	
802.11n-HT20 MCS0	52	5260	13.50	13.50	98.16	
		56	5280	13.50		13.50
		60	5300	13.50		13.50
802.11n-HT40 MCS0	54	5270	Not Required	13.50	96.32	
		62	5310	13.50		13.50
		52	5260	13.50		13.50
802.11ac-VHT20 MCS0	56	5280	13.50	13.50	98.16	
		60	5300	13.50		13.50
		64	5320	13.50		13.50
802.11ac-VHT40 MCS0	54	5270	13.50	13.50	96.32	
		62	5310	13.50		13.50
		58	5290	12.01		13.50

5GHz WLAN MIMO	Default Power Table (Max Power) WWAN Off & At Head Power Table 4					
Mode	Channel	Frequency (MHz)	Average power (dBm) [1+2]	Tune-Up Limit	Duty Cycle %	
5.5GHz WLAN	802.11a 6Mbps	100	5500	20.35	20.50	98.28
		116	5580	20.42	21.00	
		124	5620	19.75	20.00	
		132	5660	19.49	20.00	
802.11n-HT20 MCS0	100	5500	19.39	20.00	98.16	
		116	5580	19.25		19.50
		124	5620	18.74		19.00
802.11n-HT40 MCS0	102	5510	17.34	17.50	96.32	
		110	5550	20.16		21.00
		126	5630	19.02		19.50
802.11ac-VHT20 MCS0	100	5500	18.82	19.00	98.16	
		116	5580	19.29		19.50
		124	5620	18.69		19.00
802.11ac-VHT40 MCS0	102	5510	17.31	17.50	96.32	
		110	5550	20.11		20.50
		126	5630	18.94		19.50
802.11ac-VHT80 MCS0	106	5530	15.03	15.50	93.35	
		122	5610	17.86		18.50

5GHz WLAN MIMO	WWAN off & Body Worn Power Table 6					
Mode	Channel	Frequency (MHz)	Average power (dBm) [1+2]	Tune-Up Limit	Duty Cycle %	
5.5GHz WLAN	802.11a 6Mbps	100	5500	17.50	17.50	98.28
		116	5580	17.50	17.50	
		124	5620	17.50	17.50	
		132	5660	17.50	17.50	
802.11n-HT20 MCS0	100	5500	Not Required	17.50	98.16	
		116	5580	17.50		17.50
		124	5620	17.50		17.50
802.11n-HT40 MCS0	102	5510	17.34	17.50	96.32	
		110	5550	17.14		17.50
		126	5630	16.04		17.50
802.11ac-VHT20 MCS0	100	5500	15.72	17.50	98.16	
		116	5580	17.50		17.50
		124	5620	17.50		17.50
802.11ac-VHT40 MCS0	102	5510	Not Required	17.50	96.32	
		110	5550	17.50		17.50
		126	5630	17.50		17.50
802.11ac-VHT80 MCS0	106	5530	15.03	15.50	93.35	
		122	5610	16.28		17.50

5GHz WLAN MIMO	WWAN On & At Head Power Table 5 WWAN On & Body Worn Power Table 7 WWAN On & Handheld Power Table 1					
Mode	Channel	Frequency (MHz)	Average power (dBm) [1+2]	Tune-Up Limit	Duty Cycle %	
5.5GHz WLAN	802.11a 6Mbps	100	5500	13.50	13.50	98.28
		116	5580	13.50	13.50	
		124	5620	13.50	13.50	
		132	5660	13.50	13.50	
802.11n-HT20 MCS0	100	5500	13.50	13.50	98.16	
		116	5580	13.50		13.50
		124	5620	13.50		13.50
802.11n-HT40 MCS0	102	5510	Not Required	13.50	96.32	
		110	5550	13.50		13.50
		126	5630	13.50		13.50
802.11ac-VHT20 MCS0	100	5500	13.50	13.50	98.16	

Bluetooth BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	11.40	11.50	10.89
	CH 39	2441	11.87	11.59	11.29
	CH 78	2480	11.37	10.77	10.52
Tune-up Limit			12	12	12

Bluetooth LE v4.0

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	3.09
	CH 19	2440	3.85
	CH 39	2480	3.65
Tune-up Limit			5

Bluetooth LE v5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	3.50
	CH 19	2440	3.86
	CH 39	2480	3.55
Tune-up Limit			5



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.



Head

Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																
									Auto-Tune	Default (State 123)	0	9	18	27	36	45	54	63	72	81	90	99	108	117	126
WCDMA II	RMC12.2K	1852.4	9262	N/A	N/A	Left Cheek	0 mm	0.084	0.116	0.042	0.089	0.013	0.080	0.023	0.070	0.089	0.070	0.042	0.051	0.080	0.013	0.004	0.070	0.070	0.099
WCDMA IV	RMC12.2K	1732.6	1413	N/A	N/A	Right Cheek	0 mm	0.117	0.154	0.134	0.134	0.039	0.039	0.039	0.096	0.087	0.049	0.011	0.049	0.087	0.030	0.020	0.096	0.096	0.144
WCDMA V	RMC12.2K	836.4	4182	N/A	N/A	Right Cheek	0 mm	0.148	0.180	0.138	0.072	0.110	0.024	0.034	0.110	0.157	0.119	0.053	0.081	0.072	0.015	0.100	0.129	0.129	0.034
LTE Band 2	QPSK	1880	18900	1	0	Left Cheek	0 mm	0.104	0.141	0.073	0.120	0.016	0.025	0.006	0.016	0.120	0.016	0.054	0.120	0.025	0.016	0.092	0.035	0.006	0.035
LTE Band 7	QPSK	2560	21350	1	0	Right Cheek	0 mm	0.062	0.095	0.009	0.047	0.056	0.085	0.028	0.009	0.028	0.056	0.066	0.056	0.047	0.075	0.085	0.075	0.037	0.028
LTE Band 12	QPSK	707.5	23095	1	0	Right Cheek	0 mm	0.162	0.185	0.150	0.036	0.102	0.159	0.150	0.017	0.112	0.159	0.064	0.055	0.007	0.083	0.007	0.083	0.083	0.036
LTE Band 26	QPSK	831.5	26865	1	0	Right Cheek	0 mm	0.114	0.136	0.116	0.059	0.069	0.040	0.059	0.012	0.021	0.040	0.040	0.116	0.040	0.040	0.012	0.088	0.031	0.107
LTE Band 41	QPSK	2593	40620	1	0	Right Cheek	0 mm	0.045	0.069	0.036	0.045	0.017	0.055	0.055	0.055	0.007	0.017	0.017	0.007	0.007	0.055	0.036	0.026	0.055	
LTE Band 66	QPSK	1745	132322	1	0	Right Cheek	0 mm	0.138	0.183	0.112	0.074	0.027	0.017	0.036	0.017	0.103	0.065	0.055	0.131	0.160	0.103	0.027	0.027	0.131	0.150

Body

Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																
									Auto-Tune (State 109)	0	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135
WCDMA B2	RM12.2K	1907.6	9538	N/A	N/A	Bottom Side	5mm	0.964	1.280	0.827	0.951	0.894	1.084	1.018	0.258	0.522	0.151	0.979	0.418	0.818	0.465	0.875	0.827	0.656	0.132
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																
WCDMA B4	RM12.2K	1752.6	1513	N/A	N/A	Back	5mm	1.25	2.000	1.058	1.087	0.230	1.201	1.039	0.258	1.811	1.201	0.335	0.706	0.858	1.744	1.297	0.658	0.801	1.382
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																
WCDMA B5	RM12.2K	836.4	4182	N/A	N/A	Back	5mm	1.15	1.860	0.677	1.515	0.448	0.420	1.791	1.077	0.858	0.944	0.677	0.706	1.820	0.410	1.048	0.220	1.144	0.915
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																
LTE Band 2	QPSK	1880	18900	50	50	Front	5mm	1.08	1.580	0.770	0.379	0.122	1.198	0.408	1.294	1.389	1.027	1.284	1.046	0.751	0.751	0.284	0.722	1.246	0.313
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																
LTE Band 7	QPSK	2535	21100	1	0	Front	5mm	0.816	1.530	1.088	0.459	0.268	1.002	0.316	0.916	0.316	0.773	0.726	0.364	0.240	0.078	1.126	0.345	0.935	0.373
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																
LTE Band 12	QPSK	707.5	23095	1	0	Back	5mm	0.845	1.370	0.860	0.298	0.422	1.032	0.784	0.879	0.460	1.222	0.803	0.403	0.165	0.270	0.632	1.298	0.394	1.184
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																
LTE Band 26	QPSK	831.5	26865	1	0	Back	5mm	1.09	1.690	0.638	0.114	0.723	1.238	1.257	0.885	0.504	0.390	0.247	0.895	0.971	0.933	1.333	0.114	0.095	1.552
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																
LTE Band 41	QPSK	2593	40620	50	24	Front	5mm	0.95	1.640	0.424	0.824	0.672	1.281	0.767	0.405	0.605	1.424	0.291	0.300	0.110	1.196	1.015	0.615	1.158	0.234
Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)																
LTE Band 66	QPSK	1770	132572	1	0	Back	13mm	1.15	1.640	1.428	0.228	1.390	1.066	0.418	1.285	1.085	0.647	1.209	1.352	0.990	1.095	0.790	1.142	0.333	0.685



Body-verified for SAR higher than 1.2W/Kg

Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured Ig SAR (W/kg)	Average Value of Time Sweep (W/kg)																									
									Auto-Tune	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19					
WCDMA II	RMC12.2K	1907.6	9538	N/A	N/A	Bottom Side	5mm	0.964	1.280	0.827	0.637	1.151	1.018	1.056	0.675	0.503	0.789	0.798	0.951	0.989	0.656	0.827	0.837	0.932	0.465	1.103	1.013	0.894	1.008					
									20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
									1.008	0.389	0.065	0.494	0.722	1.103	0.903	1.084	0.827	0.398	0.275	0.960	1.008	1.132	0.837	0.970	1.018	0.418	0.475	0.598	0.065					
									41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61					
									0.837	0.275	0.398	1.046	0.113	0.808	0.494	0.189	0.570	0.589	1.046	0.608	0.589	0.522	0.106	0.065	0.798	0.503	0.198	0.398	0.446					
									62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82					
									1.151	0.151	1.132	0.760	0.084	1.056	0.789	0.970	0.989	0.798	0.979	0.275	0.332	0.475	0.465	0.941	0.256	0.160	0.656	0.418	0.484					
									83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103					
									0.313	0.103	1.084	0.351	0.275	0.932	0.694	0.818	0.065	0.789	0.094	0.875	0.341	1.113	0.256	0.322	0.465	0.227	1.170	1.094	1.103					
									104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124					
									0.589	0.065	0.637	0.446	0.875	1.210	0.522	0.827	0.741	0.418	0.637	0.084	0.237	0.827	1.094	1.103	0.503	0.170	1.122	0.437	0.437					
									125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143							
									1.018	0.656	0.989	0.351	0.618	0.541	0.722	1.046	0.637	0.446	0.132	0.903	0.541	0.875	0.189	0.370	0.170	0.532	0.513							

Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured Ig SAR (W/kg)	Average Value of Time Sweep (W/kg)																									
									Auto-Tune	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19					
WCDMA IV	RMC12.2K	1752.6	1513	N/A	N/A	Back	5mm	1.25	2.000	1.030	1.058	1.830	1.449	1.382	1.297	1.020	1.506	1.870	0.630	1.087	0.411	0.554	1.601	0.411	1.144	0.716	1.182	0.620	0.230					
									20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
									1.230	0.725	1.173	1.049	0.620	1.201	0.239	1.258	1.201	1.868	0.849	0.916	1.642	0.163	0.411	1.487	0.678	1.039	0.916	1.106	1.601					
									41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61					
									0.506	1.830	0.125	0.525	0.325	0.258	1.763	0.287	1.820	1.401	1.030	1.011	1.468	1.258	1.811	1.278	0.839	0.106	0.744	1.525	1.744					
									62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82					
									0.116	0.630	1.201	1.468	0.516	1.316	1.839	0.230	0.630	1.363	1.354	0.335	0.097	1.554	0.116	1.001	1.687	0.382	0.935	1.697	0.706					
									83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103					
									0.649	0.658	1.230	0.554	0.763	1.068	1.849	1.592	0.858	1.049	0.097	0.144	0.958	1.173	0.592	0.663	1.792	1.744	1.430	1.253	0.725					
									104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124					
									1.078	1.601	0.620	0.782	1.058	1.297	1.744	0.916	1.163	1.449	0.535	1.411	1.706	0.611	0.658	1.716	0.258	1.563	0.658	1.620	0.097					
									125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143							
									1.468	1.220	0.801	1.078	1.106	0.782	1.773	0.554	0.744	1.163	0.744	1.382	1.754	1.411	1.182	0.830	1.706	0.506	1.116							

Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured Ig SAR (W/kg)	Average Value of Time Sweep (W/kg)																									
									Auto-Tune	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19					
WCDMA V	RMC12.2K	836.4	4182	N/A	N/A	Back	5mm	1.15	1.860	1.134	0.210	0.677	0.496	1.439	1.287	1.001	1.239	1.087	1.248	0.248	1.515	1.344	1.563	0.906	0.925	0.648	0.620	0.477	0.944					
									20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
									0.448	1.506	1.668	1.039	0.763	1.153	0.544	1.182	1.134	0.420	0.191	1.860	1.010	0.182	0.972	0.115	1.715	1.725	1.791	0.410	0.782					
									41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61					
									1.429	1.315	0.668	0.258	1.677	0.506	1.077	0.268	1.248	1.791	0.229	1.363	1.096	0.791	1.182	0.858	1.277	0.353	0.868	0.915	1.668					
									62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82					
									0.325	0.668	1.382	0.944	1.820	0.172	0.629	0.391	0.210	1.725	0.153	0.125	0.677	0.353	1.296	0.772	0.591	0.687	0.277	1.477	0.858					
									83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103					
									0.706	1.582	0.639	0.572	0.820	1.648	0.448	1.715	0.525	1.820	1.029	1.068	0.353	1.325	0.820	0.839	0.782	0.810	0.410	0.763	0.268					
									104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124					
									0.925	1.848	1.258	1.848	1.801	1.020	1.048	1.858	1.429	1.810	1.591	0.448	0.677	0.458	0.334	0.220	1.296	0.915	1.677	1.477	0.487					
									125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143							
									1.677	1.429	0.372	1.144	1.458	1.229	1.048	0.344	1.039	1.601	0.629	0.801	0.915	0.458	0.296	1.496	0.896	1.572	0.420							

Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured Ig SAR (W/kg)	Average Value of Time Sweep (W/kg)																									
									Auto-Tune	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19					
LTE Band 2	QPSK	1880	18900	50	50	Front	5mm	1.08	1.580	0.846	1.246	0.846	0.770	1.227	0.446	1.075	0.637	0.779	1.179	0.865	0.646	0.379	1.141	0.637	1.227	0.198	0.170	0.884	0.237					
									20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
									1.122	0.122	0.608	0.722	0.313	1.113	1.389	1.341	0.427	0.437	1.198	1.389	1.322	1.256	1.265	1.389	0.684	1.256	0.570	0.408	0.065					
									41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61					
									0.170	0.398	0.418	0.465	1.037	0.227	1.103	1.294	1.237	0.332	0.313	0.951	1.018	1.008	0.751	1.141	1.389	0.618	0.979	1.332	0.541					
									62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82					
									0.951	0.513	0.151	0.656	1.027	1.313	0.875	1.075	0.951	1.284	1.389	0.103	0.427	1.284	0.960	1.189	0.494	1.360	1.351	1.094	0.646					
									83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103					
									0.998	1.046	0.856	0.494	0.275	0.151	0.656	0.503	0.408	0.389	0.751	1.360	1.065	0.198	1.275	1.351	1.037	0.084	1.141	0.751	0.275					
									104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124					
									0.713	0.370	0.827	1.160	0.570	1.410	1.048	0.284	1.189	0.170	0.208	0.646	0.608	1.170	0.884	0.220	0.722	1.341								

Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured Ig SAR (W/kg)	Average Value of Time Sweep (W/kg)																				
									Auto-Tune	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
									LTE Band 26	QPSK	831.5	26865	1	0	Back	5mm	1.09	1.690	0.428	1.057	1.009	1.542	1.142	0.695	0.638	0.618	0.352	1.428	0.733
									20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
									1.085	1.276	1.238	1.142	0.723	0.123	0.714	0.885	0.485	1.047	1.485	0.695	0.228	1.238	0.780	1.561	1.495	0.580	0.123	1.085	1.104
									41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
									0.142	1.257	1.552	0.628	0.771	1.409	1.561	0.952	1.057	1.171	0.885	1.618	1.038	1.228	0.190	1.571	0.228	1.571	1.352	0.504	1.161
									62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82
									0.295	1.323	0.190	0.323	0.990	1.561	0.933	0.390	1.409	0.676	0.790	0.485	0.809	1.533	1.571	0.438	0.247	0.961	1.152	0.799	1.018
									83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103
									1.428	1.304	0.628	1.618	0.895	0.723	0.714	1.257	0.123	0.333	1.161	0.866	1.161	0.971	1.618	1.399	1.238	0.333	1.628	0.161	0.790
									104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124
									0.418	0.933	1.561	0.961	0.952	0.590	1.095	0.657	1.352	1.104	1.333	0.942	0.266	1.057	0.476	1.352	0.285	0.161	1.333	0.114	0.752
									125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143		
									0.428	0.733	0.990	0.742	1.190	0.152	1.257	0.095	1.361	1.323	0.666	1.190	0.380	1.180	1.104	0.571	1.552	1.009	0.904		

Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured Ig SAR (W/kg)	Average Value of Time Sweep (W/kg)																				
									Auto-Tune	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
									LTE Band 41	QPSK	2593	40620	50	24	Front	5mm	0.95	1.640	0.634	0.462	0.443	0.205	0.853	1.472	0.462	0.424	0.605	0.624	1.434
									20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
									0.310	0.167	0.786	1.215	0.396	0.672	1.481	0.777	1.053	0.672	1.196	0.919	0.358	0.405	1.281	0.719	0.586	0.100	0.881	1.377	0.100
									41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
									1.538	1.481	0.767	0.491	0.929	0.119	0.662	0.424	0.481	0.405	0.919	0.405	1.491	1.519	0.472	1.424	0.481	0.253	0.348	0.881	0.605
									62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82
									0.472	1.015	1.091	0.824	0.196	0.091	0.453	1.500	1.424	0.719	1.550	0.596	0.462	0.834	0.177	1.300	0.872	0.291	0.967	1.462	0.529
									83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103
									1.291	0.367	1.481	1.291	1.367	0.300	1.024	1.243	0.196	0.319	0.148	0.805	0.519	0.529	0.110	0.919	0.234	0.300	1.062	1.500	1.443
									104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124
									0.177	0.538	1.196	1.167	0.948	1.091	1.186	0.748	0.748	0.319	1.386	1.015	0.167	0.958	1.405	0.177	0.977	1.024	0.234	0.243	0.615
									125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143		
									1.481	0.386	1.148	0.405	0.881	0.081	0.729	0.567	1.158	1.510	0.272	0.367	0.805	0.224	0.853	1.158	0.710	0.234	1.548		

Mode	Service/Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured Ig SAR (W/kg)	Average Value of Time Sweep (W/kg)																				
									Auto-Tune	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
									LTE Band 66	QPSK	1770	132572	1	0	Back	13mm	1.15	1.640	1.066	0.152	0.952	0.390	0.323	0.504	1.028	0.352	1.428	1.028	1.266
									20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
									0.990	0.133	0.504	0.438	0.542	0.695	1.390	0.590	1.095	0.876	0.742	0.723	0.380	1.018	0.523	1.066	0.095	0.599	0.380	0.380	1.142
									41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
									1.171	0.895	0.952	0.418	0.190	0.657	0.266	0.323	1.409	0.190	0.685	1.076	1.285	1.333	0.657	0.952	0.590	0.999	0.076	0.266	0.180
									62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82
									1.085	1.161	0.066	0.428	1.218	0.847	0.847	0.923	0.228	0.647	1.630	1.447	0.657	1.066	0.847	1.152	0.580	1.190	1.209	1.066	0.923
									83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103
									1.104	1.199	0.161	0.257	1.066	0.514	1.352	0.657	0.342	0.257	0.495	1.199	0.418	1.399	0.552	0.990	0.361	0.609	0.552	0.552	0.561
									104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124
									1.152	0.447	1.057	1.095	1.076	0.323	0.876	0.190	0.409	0.638	1.333	0.790	0.790	1.266	0.533	0.561	0.609	1.123	0.247	0.552	0.085
									125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143		
									1.142	1.142	0.409	0.657	1.390	1.161	0.580	0.514	0.838	0.333	0.676	1.390	0.190	1.399	0.457	0.752	0.390	0.504	0.685		