

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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2580	2595	2610			
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			
20	QPSK	50	24	19.66	19.98	19.77	21.5	0	
20	QPSK	50	50	19.93	20.05	19.71			
20	QPSK	100	0	19.67	20.10	19.72			
20	16QAM	1	0	19.86	20.06	19.78			
20	16QAM	1	49	19.74	20.24	19.91	21.5	0	
20	16QAM	1	99	19.83	20.17	19.89			
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	19.68			
20	64QAM	50	24	19.78	20.14	19.82			
20	64QAM	50	50	19.83	20.12	19.72	21.5	0	
20	64QAM	100	0	19.64	20.12	19.75			
Channel				37625	38000	38175	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2577.5	2595	2612.5			
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	19.70			
15	QPSK	36	0	19.90	19.95	19.95			
15	QPSK	36	20	19.88	19.78	19.78	21.5	0	
15	QPSK	36	39	19.92	19.74	20.05			
15	QPSK	75	0	19.93	19.76	19.68			
15	16QAM	1	0	19.88	19.91	19.98			
15	16QAM	1	37	19.76	19.80	19.86	21.5	0	
15	16QAM	1	74	19.74	19.75	19.95			
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			
15	64QAM	36	39	19.88	19.73	19.95	21.5	0	
15	64QAM	75	0	19.92	19.79	19.76			
Channel				37900	38000	38200	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2575	2595	2615			
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			
10	QPSK	25	12	19.84	20.09	19.68	21.5	0	
10	QPSK	25	25	19.83	20.12	19.73			
10	QPSK	50	0	19.84	20.13	19.80			
10	16QAM	1	0	19.77	20.10	19.88			
10	16QAM	1	25	19.74	19.98	19.82	21.5	0	
10	16QAM	1	49	19.88	19.96	19.80			
10	16QAM	25	0	19.74	20.11	19.80			
10	16QAM	25	12	19.80	20.10	19.64			
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	19.61	21.5	0	
10	64QAM	1	49	19.77	20.05	19.84			
10	64QAM	25	0	19.78	20.12	19.66			
10	64QAM	25	12	19.85	20.13	19.68			
10	64QAM	25	25	19.87	20.11	19.74	21.5	0	
10	64QAM	50	0	19.85	20.10	19.62			
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2572.5	2595	2617.5			
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	19.87	19.60	19.99			
5	QPSK	12	0	19.96	19.58	19.85			
5	QPSK	12	7	19.95	19.70	20.02	21.5	0	
5	QPSK	12	13	19.98	19.75	20.02			
5	QPSK	25	0	19.99	19.62	20.03			
5	16QAM	1	0	19.95	19.90	19.94			
5	16QAM	1	12	19.82	19.85	19.91	21.5	0	
5	16QAM	1	24	19.81	19.84	20.06			
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			
5	64QAM	12	13	19.95	19.76	20.04	21.5	0	
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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508	2549.5	2593	2636.5	2680		
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		
20	QPSK	50	24	20.31	20.10	20.15	19.87	19.90	21.5	0
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		
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	21.5	0
20	16QAM	1	99	20.35	20.29	20.08	20.04	19.87		
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		
20	64QAM	1	99	20.06	20.10	19.96	20.04	19.81	21.5	0
20	64QAM	50	0	20.08	20.21	20.01	19.85	20.07		
20	64QAM	50	24	20.21	20.26	20.10	19.83	19.92		
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	21.5	0
Channel				39725	40173	40620	41066	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.3	2682.5	Tune-up limit (dBm)	MPR (dB)
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	20.18	19.81	19.80		
15	16QAM	1	0	20.08	20.22	20.10	19.87	20.09	21.5	0
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		
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	21.5	0
15	16QAM	36	39	20.14	20.22	20.14	19.80	19.91		
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		
15	64QAM	36	39	20.19	20.23	20.18	19.81	19.93	21.5	0
15	64QAM	75	0	20.18	20.25	20.20	19.87	19.82		
Channel				39700	40160	40620	41090	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	0	19.89	19.89	19.91	19.92	19.96		
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	19.66		
10	QPSK	25	0	19.99	20.11	19.94	19.66	19.63		
10	QPSK	25	12	20.05	20.09	20.05	19.74	19.77	21.5	0
10	QPSK	25	25	20.04	20.13	20.03	19.69	19.62		
10	QPSK	50	0	20.05	20.14	20.06	19.71	19.69		
10	16QAM	1	0	19.98	20.09	19.96	19.76	19.97		
10	16QAM	1	25	19.95	19.97	19.94	19.88	19.91	21.5	0
10	16QAM	1	49	20.09	19.95	20.07	19.65	19.89		
10	16QAM	25	0	19.95	20.10	19.93	19.95	19.89		
10	16QAM	25	12	20.01	20.10	20.00	19.77	19.73		
10	16QAM	25	25	20.03	20.11	20.03	19.68	19.80	21.5	0
10	16QAM	50	0	20.08	20.14	20.08	19.75	19.73		
10	64QAM	1	0	19.87	19.93	19.85	19.94	19.93		
10	64QAM	1	25	19.85	19.94	19.85	19.77	19.70		
10	64QAM	1	49	19.98	20.15	19.93	19.92	19.93	21.5	0
10	64QAM	25	0	19.99	20.10	19.98	19.66	19.65		
10	64QAM	25	12	20.06	20.13	20.07	19.80	19.77		
10	64QAM	25	25	20.08	20.09	20.05	19.68	19.83		
10	64QAM	50	0	20.06	20.13	20.07	19.75	19.71	21.5	0
Channel				39675	40146	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	0	19.94	19.94	19.96	19.97	20.01	21.5	0
5	QPSK	1	12	19.95	19.97	19.90	19.67	19.75		
5	QPSK	1	24	20.08	20.08	20.07	19.98	19.72		
5	QPSK	12	0	20.04	20.17	20.01	19.72	19.70		
5	QPSK	12	7	20.11	20.16	20.10	19.81	19.82	21.5	0
5	QPSK	12	13	20.11	20.19	20.08	19.75	19.87		
5	QPSK	25	0	20.12	20.20	20.12	19.76	19.74		
5	16QAM	1	0	20.03	20.16	20.03	19.81	20.02		
5	16QAM	1	12	20.00	20.03	19.99	19.93	19.97	21.5	0
5	16QAM	1	24	20.15	20.02	20.12	19.71	19.96		
5	16QAM	12	0	20.01	20.17	19.99	20.00	19.95		
5	16QAM	12	7	20.08	20.15	20.07	19.83	19.80		
5	16QAM	12	13	20.09	20.16	20.09	19.75	19.85	21.5	0
5	16QAM	25	0	20.13	20.21	20.15	19.81	19.78		
5	64QAM	1	0	19.92	19.99	19.91	20.00	19.99		
5	64QAM	1	12	19.91	20.01	19.92	19.83	19.75		
5	64QAM	1	24	20.05	20.02	19.99	19.99	19.99	21.5	0
5	64QAM	12	0	20.05	20.17	20.03	19.71	19.70		
5	64QAM	12	7	20.13	20.19	20.12	19.85	19.82		
5	64QAM	12	13	20.13	20.16	20.11	19.75	19.88		
5	64QAM	25	0	20.11	20.18	20.14	19.80	19.76	21.5	0

Reduced Power Mode for Hotspot On

Band 2 (1900MHz Band) Part 24E										Band 4 (AWS Band) Part 27L (only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq 1870.0	Power Middle Ch / Freq 1880.0	Power High Ch / Freq 1900.0	Tune-up limit (dBm)	MPR (dB)		BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq 2050.0	Power Middle Ch / Freq 2060.0	Power High Ch / Freq 2080.0	Tune-up limit (dBm)	MPR (dB)	
Channel										Channel									
Frequency (MHz)										Frequency (MHz)									
20	QPSK	1	0	14.14	14.14	13.88	15	0		20	QPSK	1	0	15.01	15.05	15.11	16.5	0	
20	QPSK	1	49	14.02	13.92	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	1	99	15.00	15.00	14.98			
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	14.25	14.04	15	0		20	QPSK	100	0	15.12	15.15	15.09			
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	1	49	15.08	15.16	15.31			
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	1	99	15.12	15.15	15.35			
20	16QAM	100	0	14.22	14.23	14.00													
20	64QAM	1	0	14.31	14.14	14.01	15	0		20	16QAM	50	0	14.97	15.04	15.15			
20	64QAM	1	49	14.00	14.00	13.88													
20	64QAM	1	99	14.02	14.04	14.02													
20	64QAM	50	0	14.29	14.09	14.05	15	0		20	16QAM	50	24	14.98	14.98	15.12			
20	64QAM	50	24	14.24	14.04	13.98													
20	64QAM	50	50	14.19	14.02	13.92													
20	64QAM	100	0	14.20	14.05	14.01													
Channel										Channel									
Frequency (MHz)										Frequency (MHz)									
15	QPSK	1	0	14.18	14.01	13.85	15	0		15	QPSK	1	0	14.98	15.02	15.10			
15	QPSK	1	37	14.03	13.94	13.78													
15	QPSK	1	74	14.03	13.90	13.78													
15	QPSK	36	0	14.30	14.11	14.02	15	0		15	QPSK	1	74	14.97	15.05	15.06			
15	QPSK	36	20	14.23	14.04	13.96													
15	QPSK	36	36	14.18	14.05	13.93													
15	QPSK	75	0	14.23	14.05	13.97	15	0		15	QPSK	36	0	15.03	15.11	15.15			
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	1	37	15.05	15.16	15.23			
15	16QAM	36	0	14.23	14.09	14.01													
15	16QAM	36	20	14.17	14.00	13.92													
15	16QAM	36	36	14.13	13.99	13.90	15	0		15	16QAM	36	0	14.97	15.04	15.17			
15	16QAM	75	0	14.22	14.05	13.95													
15	64QAM	1	0	14.32	14.11	14.03	15	0		15	16QAM	36	20	14.97	15.06	15.13			
15	64QAM	1	37	14.14	14.04	13.91													
15	64QAM	1	74	14.16	13.97	13.85													
15	64QAM	36	0	14.28	14.11	13.99	15	0		15	64QAM	36	0	14.94	15.05	15.09			
15	64QAM	36	20	14.17	14.00	13.92													
15	64QAM	36	36	14.14	14.02	13.89													
15	64QAM	75	0	14.23	14.05	13.95													
Channel										Channel									
Frequency (MHz)										Frequency (MHz)									
10	QPSK	1	0	13.97	13.87	13.62	15	0		10	QPSK	1	0	14.75	14.85	14.88			
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	0	14.82	14.90	14.81			
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	QPSK	25	25	14.86	15.01	15.09			
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	1	49	14.98	15.02	15.11			
10	16QAM	25	0	14.09	13.97	13.87													
10	16QAM	25	12	14.12	14.03	13.93													
10	16QAM	25	25	14.08	13.85	13.83	15	0		10	16QAM	25	0	14.72	14.75	14.63			
10	16QAM	50	0	14.09	13.93	13.84													
10	64QAM	1	0	14.43	14.26	14.04	15	0		10	16QAM	25	12	14.77	14.76	14.61			
10	64QAM	1	25	14.38	14.25	14.00													
10	64QAM	1	49	14.25	14.18	13.98													
10	64QAM	25	0	14.13	13.93	13.86	15	0		10	64QAM	25	12	14.76	14.75	14.69			
10	64QAM	25	12	14.12	14.02	13.94													
10	64QAM	25	25	14.10	13.91	13.81													
10	64QAM	50	0	14.07	13.93	13.84													
Channel										Channel									
Frequency (MHz)										Frequency (MHz)									
5	QPSK	1	0	14.05	14.05	14.19	15	0		5	QPSK	1	0	14.74	14.79	14.88			
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	0	14.82	14.87	14.85			
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	QPSK	12	13	14.86	15.00	15.01			
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	1	0	14.97	14.96	15.13			
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	1	12	14.78	15.05	15.17			
5	16QAM	25	0	14.16	14.33	14.36													
5	64QAM	1	0	14.19	14.36	13.98	15	0		5	16QAM	1	24	14.94	15.07	15.14			
5	64QAM	1	12	14.39	14.08	14.23													
5	64QAM	1	24	14.13	13.98	14.09													
5	64QAM	12	0	13.71	13.82	14.11	15	0		5	64QAM	12	0	14.72	14.75	14.86			
5	64QAM	12	7	13.86	13.93	14.14													
5	64QAM	12	13	13.82	13.96	14.02													
5	64QAM	25	0	13.86	14.03	14.12													
Channel										Channel									
Frequency (MHz)										Frequency (MHz)									
3	QPSK	1	0	13.99	13.97	14.07	15	0		3	QPSK	1	0	14.89	14.86	14.76			
3	QPSK	1	8	13.99	14.31	14.36													
3	QPSK	1	14	13.94	14.16	14.27													
3	QPSK	8	0	13.97	14.21	14.36	15	0		3	QPSK	8	0	14.92	14.91	14.81			
3	QPSK	8	4	13.98	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	QPSK	8	7	14.97	14.97	14.92			
3	16QAM	1	0	14.16	14.29	14.33													
3	16QAM	1	8	14.08	13.90	14.05													
3	16QAM	1	14	14.08	14.06	14.30	15	0		3	16QAM	1	0	15.13	15.11	14.99			
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	8	0	14.95	14.85	14.80			
3	16QAM	15	0	14.08	14.27	14.26													
3	64QAM	1	0	14.07	14.28	13.92	15	0		3	64QAM	1	8	15.02	15.02	15.01			
3	64QAM	1	8	14.27	14.02	14.15													
3	64QAM	1	14	14.06	14.00	13.99													
3	64QAM	8	0	13.96	14.19	14.33	15	0		3	64QAM	8	0	14.88	14.82	14.69			
3	64QAM	8	4	14.10	14.20	14.39													
3	64QAM	8	7	14.04	14.23	14.20													
3	64QAM	15	0	14.19	14.23	14.20													
Channel										Channel									
Frequency (MHz)										Frequency (MHz)									
1.4	QPSK	1	0	14.02	14.01	14.13	15	0		1.4	QPSK	1	0	14.84	14.87	14.77			
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	0	14.95	14.95	14.82			
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	QPSK	3	3	14.93	14.88	14.87			
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	14.39	15	0		1.4	16QAM	1	5	14.94	14.95	14.83			
1.4	16QAM	3	0	14.00	14.21	14.34													
1.4	16QAM	3	1	14.06	14.29	14.41													
1.4	16QAM	3	3	14.20	14.26	14.38	15	0		1.4	16QAM	3	1	14.77	14.68	14.71			
1.4	16QAM	6	0	14.12	14.30	14.32													
1.4	64QAM	1	0	14.13	14.32	13.95	15	0		1.4	64QAM	1	3	14.94	14.73	14.93			
1.4	64QAM	1	3	14.33	14.05	14.19													
1.4	64QAM	1	5	14.09	14.04	14.30													
1.4	64QAM	3	0	13.97	13.99	14.36	15	0		1.4	64QAM	3	0	14.75	14.85	14.72			
1.4	64QAM	3	1	13.90	13.95	14.11													
1.4	64QAM	3	3	13.76	13.93	13.98													
1.4	64QAM	6	0	13.83	13.99	14.08													

Reduced Power Mode for Hotspot On

Band 7 (200MHz Band) Part 27										
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				20550	20550	20550				
Frequency (MHz)				2510	2530	2550				
20	QPSK	1	0	14.31	14.15	14.41	16	0		
20	QPSK	1	49	14.32	14.40	14.27				
20	QPSK	1	99	14.38	14.40	14.18				
20	QPSK	50	0	14.51	14.35	14.21				
20	QPSK	50	24	14.47	14.51	14.48	16	0		
20	QPSK	50	99	14.55	14.55	14.57				
20	QPSK	100	0	14.31	14.39	14.45				
20	16QAM	1	0	14.75	14.78	14.80				
20	16QAM	1	49	14.58	14.56	14.64	16	0		
20	16QAM	1	99	14.69	14.67	14.57				
20	16QAM	50	0	14.54	14.46	14.60				
20	16QAM	50	24	14.61	14.48	14.62				
20	16QAM	50	99	14.57	14.63	14.56	16	0		
20	16QAM	100	0	14.52	14.45	14.53				
20	84QAM	1	0	14.64	14.63	14.51				
20	84QAM	1	49	14.66	14.54	14.51	16	0		
20	84QAM	1	99	14.75	14.62	14.67				
20	84QAM	50	0	14.37	14.39	14.25				
20	84QAM	50	24	14.53	14.42	14.37				
20	84QAM	50	99	14.57	14.63	14.46	16	0		
20	84QAM	100	0	14.54	14.37	14.37				
Channel				20625	21100	21375	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5				
15	QPSK	1	0	14.31	14.33	14.11	16	0		
15	QPSK	1	37	14.41	14.35	14.17				
15	QPSK	1	74	14.38	14.38	14.34				
15	QPSK	36	0	14.51	14.42	14.23				
15	QPSK	36	20	14.47	14.46	14.36	16	0		
15	QPSK	36	39	14.58	14.45	14.33				
15	QPSK	75	0	14.46	14.35	14.35				
15	16QAM	1	0	14.69	14.45	14.54				
15	16QAM	1	37	14.66	14.67	14.70	16	0		
15	16QAM	1	74	14.77	14.78	14.67				
15	16QAM	36	0	14.49	14.44	14.21				
15	16QAM	36	20	14.45	14.47	14.36				
15	16QAM	36	39	14.51	14.51	14.37	16	0		
15	16QAM	75	0	14.51	14.40	14.35				
15	84QAM	1	0	14.60	14.34	14.35				
15	84QAM	1	37	14.31	14.52	14.70	16	0		
15	84QAM	1	74	14.42	14.64	14.51				
15	84QAM	36	0	14.48	14.39	14.22				
15	84QAM	36	20	14.53	14.37	14.30				
15	84QAM	36	39	14.57	14.46	14.31	16	0		
15	84QAM	75	0	14.41	14.43	14.27				
Channel				20800	21100	21400	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				2505	2535	2565				
10	QPSK	1	0	14.16	14.02	13.91	16	0		
10	QPSK	1	25	14.11	14.14	13.82				
10	QPSK	1	49	14.28	13.92	13.86				
10	QPSK	25	0	14.23	14.16	13.98				
10	QPSK	25	12	14.25	14.19	13.91	16	0		
10	QPSK	25	25	14.32	14.28	14.13				
10	QPSK	50	0	14.29	14.17	14.08				
10	16QAM	1	0	14.69	14.59	14.58				
10	16QAM	1	25	14.65	14.67	14.53	16	0		
10	16QAM	1	49	14.65	14.61	14.53				
10	16QAM	25	0	14.22	14.21	14.04				
10	16QAM	25	12	14.32	14.19	14.08				
10	16QAM	25	25	14.38	14.20	14.09	16	0		
10	16QAM	50	0	14.33	14.25	14.09				
10	84QAM	1	0	14.65	14.72	14.47				
10	84QAM	1	25	14.41	14.32	14.44	16	0		
10	84QAM	1	49	14.63	14.54	14.52				
10	84QAM	25	0	14.32	14.16	14.12				
10	84QAM	25	12	14.28	14.23	14.14				
10	84QAM	25	25	14.35	14.29	14.11	16	0		
10	84QAM	50	0	14.30	13.95	14.08				
Channel				20775	21100	21425	Tune-up limit (dBm)		MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5				
5	QPSK	1	0	13.91	13.96	14.08	16	0		
5	QPSK	1	12	13.83	14.00	14.09				
5	QPSK	1	24	13.81	14.18	14.23				
5	QPSK	12	0	14.05	14.21	14.27				
5	QPSK	12	7	14.10	14.14	14.27	16	0		
5	QPSK	12	13	13.97	14.23	14.28				
5	QPSK	25	0	13.96	14.10	14.31				
5	16QAM	1	0	14.43	14.35	14.67				
5	16QAM	1	12	14.48	14.56	14.39	16	0		
5	16QAM	1	24	14.45	14.35	14.43				
5	16QAM	12	0	14.05	14.20	14.33				
5	16QAM	12	7	14.05	14.17	14.30				
5	16QAM	12	13	14.03	14.20	14.33	16	0		
5	16QAM	25	0	14.02	14.13	14.21				
5	84QAM	1	0	14.54	14.44	14.64				
5	84QAM	1	12	14.44	14.32	14.35	16	0		
5	84QAM	1	24	14.55	14.33	14.70				
5	84QAM	12	0	13.97	14.00	14.34				
5	84QAM	12	7	13.98	14.11	14.42				
5	84QAM	12	13	13.96	14.14	14.28	16	0		
5	84QAM	25	0	14.07	14.16	14.32				

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				130070	130070	130070					
Frequency (MHz)				1720	1745	1770					
20	QPSK	1	0	15.18	15.06	15.16	16.5	0			
20	QPSK	1	49	15.00	15.02	14.97					
20	QPSK	1	99	15.15	15.04	15.02					
20	QPSK	50	0	15.16	15.16	15.23					
20	QPSK	50	24	15.02	15.10	15.30	16.5	0			
20	QPSK	50	99	15.38	15.16	15.25					
20	QPSK	100	0	15.14	15.06	14.89					
20	16QAM	1	0	15.45	15.34	15.43					
20	16QAM	1	49	15.19	15.14	15.26	16.5	0			
20	16QAM	1	99	15.14	15.18	15.20					
20	16QAM	50	0	15.37	15.16	15.23					
20	16QAM	50	24	15.14	15.29	15.19					
20	16QAM	50	99	15.17	15.36	15.24	16.5	0			
20	16QAM	100	0	15.26	15.25	15.23					
20	84QAM	1	0	15.21	15.33	15.34					
20	84QAM	1	49	15.31	15.22	15.12	16.5	0			
20	84QAM	1	99	15.24	15.35	15.30					
20	84QAM	50	0	14.96	15.15	15.21	16.5	0			
20	84QAM	50	24	14.98	15.14	15.28					
20	84QAM	50	99	15.17	15.36	15.24					
20	84QAM	100	0	15.05	15.05	15.05					
Channel				130047	130022	130057	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1717.5	1745	1772.5					
15	QPSK	1	0	15.08	15.05	14.98	16.5	0			
15	QPSK	1	37	15.00	15.06	14.94					
15	QPSK	1	74	15.05	15.03	14.96					
15	QPSK	36	0	15.22	15.13	14.94					
15	QPSK	36	20	15.26	15.26	14.86	16.5	0			
15	QPSK	36	39	15.13	15.14	15.11					
15	QPSK	75	0	15.08	15.12	15.07					
15	16QAM	1	0	15.41	15.18	15.20					
15	16QAM	1	37	15.23	15.29	15.18	16.5	0			
15	16QAM	1	74	15.18	15.16	15.17					
15	16QAM	36	0	15.23	15.12	15.03					
15	16QAM	36	20	15.26	15.26	14.99					
15	16QAM	36	39	15.25	15.32	14.99	16.5	0			
15	16QAM	75	0	15.25	15.14	15.07					
15	84QAM	1	0	15.20	15.30	15.11					
15	84QAM	1	37	14.86	15.25	14.81	16.5	0			
15	84QAM	1	74	14.87	15.14	14.87					
15	84QAM	36	0	15.18	15.19	15.06					
15	84QAM	36	20	15.20	15.16	15.04					
15	84QAM	36	39	15.14	15.37	14.86	16.5	0			
15	84QAM	75	0	15.14	15.08	15.04					
Channel				130022	130022	130022	Tune-up limit (dBm)		MPR (dB)		
Frequency (MHz)				1715	1745	1775					
10	QPSK	1	0	14.89	15.21	15.05	16.5	0			
10	QPSK	1	25	14.99	15.29	14.93					
10	QPSK	1	49	15.02	15.16	15.01					
10	QPSK	25	0	15.10	15.08	15.13					
10	QPSK	25	12	15.08	15.10	15.10	16.5	0			
10	QPSK	25	25	15.00	15.16	15.18					
10	QPSK	50	0	15.10	15.12	15.16					
10	16QAM	1	0	15.18	15.20	15.05					
10	16QAM	1	25	15.26	15.35	15.06	16.5	0			
10	16QAM	1	49	14.98	15.15	15.25					
10	16QAM	25	0	14.99	15.05	15.22					
10	16QAM	25	12	15.04	15.15	15.17					
10	16QAM	25	25	15.16	15.19	15.26	16.5	0			
10	16QAM	50	0	15.05	15.19	15.16					
10	84QAM	1	0	15.15	15.14	15.34					
10	84QAM	1	25	15.23	15.26	15.28	16.5	0			
10	84QAM	1	49	15.14	15.20	15.37					
10	84QAM	25	0	15.06	15.29	15.30					
10	84QAM	25	12	15.06	15.16	15.14					
10	84QAM	25	25	15.13	15.25	15.20	16.5	0			
10	84QAM	50	0	15.16	15.16	15.12					
Channel				130067	130022	130047	Tune-up limit (dBm)		MPR (dB)		
Frequency (MHz)				1715.5	1745	1775.5					
5	QPSK	1	0	14.97	15.24	15.12	16.5	0			
5	QPSK	1	12	15.03	15.38	14.88					
5	QPSK	1	24	15.09	15.19	15.09					
5	QPSK	12	0	15.15	15.17	15.21					
5	QPSK	12									

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	17.5	0	
Frequency (MHz)				2980	2995	2910			
20	QPSK	1	0	15.67	15.76	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			
20	QPSK	50	24	15.67	15.87	16.11	17.5	0	
20	QPSK	50	50	15.82	15.94	16.04			
20	QPSK	100	0	15.55	15.99	16.04			
20	16QAM	1	0	15.75	15.95	16.12			
20	16QAM	1	49	15.78	16.13	16.08	17.5	0	
20	16QAM	1	99	15.72	16.06	16.15			
20	16QAM	50	0	15.78	15.93	16.13			
20	16QAM	50	24	15.77	16.00	16.02			
20	16QAM	50	50	15.76	16.01	16.10	17.5	0	
20	16QAM	100	0	15.68	16.02	16.13			
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			
20	64QAM	100	0	15.53	16.01	15.88	17.5	0	
Channel				37825	38000	38175			Tune-up limit (dBm)
Frequency (MHz)				2977.5	2995	2912.5			
15	QPSK	1	0	15.69	15.70	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	15.52	15.89			
15	QPSK	36	20	15.69	15.63	15.96	17.5	0	
15	QPSK	36	39	15.92	15.57	15.96			
15	QPSK	75	0	15.93	15.38	15.97			
15	16QAM	1	0	15.90	15.64	15.88			
15	16QAM	1	37	15.78	15.77	15.86	17.5	0	
15	16QAM	1	74	15.76	15.54	16.02			
15	16QAM	36	0	15.91	15.82	15.88			
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	15.68	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			
10	QPSK	25	12	15.73	15.51	15.89	17.5	0	
10	QPSK	25	25	15.72	15.46	15.93			
10	QPSK	50	0	15.73	15.48	15.94			
10	16QAM	1	0	15.66	15.53	15.89			
10	16QAM	1	25	15.63	15.65	15.77	17.5	0	
10	16QAM	1	49	15.77	15.42	15.75			
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			
10	64QAM	25	25	15.76	15.45	15.89	17.5	0	
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			
5	QPSK	12	7	15.84	15.58	15.91	17.5	0	
5	QPSK	12	13	15.87	15.52	15.91			
5	QPSK	25	0	15.88	15.53	15.92			
5	16QAM	1	0	15.84	15.58	15.83			
5	16QAM	1	12	15.71	15.70	15.80	17.5	0	
5	16QAM	1	24	15.70	15.48	15.95			
5	16QAM	12	0	15.85	15.77	15.81			
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			
5	64QAM	12	13	15.84	15.52	15.93	17.5	0	
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	2908		
Frequency (MHz)				2908	2949.5	2993	2936.5	2980			
20	QPSK	1	0	16.08	15.88	15.93	15.63	15.85	17.5	0	
20	QPSK	1	49	15.94	15.89	15.96	15.78	15.78			
20	QPSK	1	99	15.93	15.97	16.02	15.68	15.58			
20	QPSK	50	0	16.19	16.05	15.99	15.93	15.96			
20	QPSK	50	24	16.20	15.99	16.04	15.76	15.79	17.5	0	
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			
20	16QAM	1	0	16.21	16.07	16.26	15.96	15.92			
20	16QAM	1	49	16.17	16.25	15.92	15.84	15.81	17.5	0	
20	16QAM	1	99	16.24	16.18	15.97	15.93	15.76			
20	16QAM	50	0	16.22	16.05	16.00	15.82	15.95			
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			
20	64QAM	1	99	15.95	15.99	15.85	15.93	15.70	17.5	0	
20	64QAM	50	0	15.97	16.10	15.90	15.74	15.96			
20	64QAM	50	24	16.10	16.15	15.99	15.72	15.81			
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	Tune-up limit (dBm)	MPR (dB)	
Channel				39725	40173	40620	41068	41515			
Frequency (MHz)				2903.5	2948.3	2993	2937.8	2982.5			
15	QPSK	1	0	15.89	15.90	15.90	15.91	15.95	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	15.66			
15	QPSK	36	0	15.98	16.11	15.97	15.68	15.64			
15	QPSK	36	20	16.05	16.10	16.04	15.75	15.78	17.5	0	
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			
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	17.5	0	
15	16QAM	1	74	16.11	15.97	16.06	15.66	15.90			
15	16QAM	36	0	15.97	16.12	15.94	15.94	15.89			
15	16QAM	36	20	16.02	16.11	16.03	15.77	15.74			
15	16QAM	36	39	16.03	16.11	16.03	15.69	15.80	17.5	0	
15	16QAM	75	0	16.08	16.17	16.09	15.76	15.74			
15	64QAM	1	0	15.87	15.95	15.86	15.94	15.94			
15	64QAM	1	37	15.87	15.95	15.88	15.78	15.71			
15	64QAM	1	74	16.00	16.16	15.94	15.95	15.93	17.5	0	
15	64QAM	36	0	15.99	16.13	15.99	15.66	15.64			
15	64QAM	36	20	16.07	16.14	16.07	15.80	15.77			
15	64QAM	36	39	16.08	16.12	16.07	15.70	15.82			
15	64QAM	75	0	16.07	16.14	16.09	15.76	15.71	Tune-up limit (dBm)	MPR (dB)	
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2901	2947	2993	2939	2985			
10	QPSK	1	0	15.78	15.78	15.80	15.81	15.85	17.5	0	
10	QPSK	1	26	15.79	15.81	15.74	15.51	15.59			
10	QPSK	1	49	15.92	15.92	15.90	15.82	15.55			
10	QPSK	25	0	15.88	16.00	15.83	15.55	15.52			
10	QPSK	25	12	15.94	15.98	15.94	15.63	15.66	17.5	0	
10	QPSK	25	25	15.93	16.02	15.92	15.58	15.71			
10	QPSK	50	0	15.94	16.03	15.95	15.60	15.58			
10	16QAM	1	0	15.87	15.98	15.85	15.65	15.86			
10	16QAM	1	25	15.84	15.86	15.83	15.77	15.80	17.5	0	
10	16QAM	1	49	15.98	15.84	15.96	15.54	15.78			
10	16QAM	25	0	15.84	15.99	15.82	15.84	15.78			
10	16QAM	25	12	15.90	15.99	15.89	15.66	15.62			
10	16QAM	25	25	15.92	16.00	15.92	15.57	15.69	17.5	0	
10	16QAM	50	0	15.97	16.03	15.97	15.64	15.62			
10	64QAM	1	0	15.76	15.82	15.74	15.83	15.82			
10	64QAM	1	25	15.74	15.83	15.74	15.66	15.59			
10	64QAM	1	49	15.87	16.04	15.82	15.81	15.82	17.5	0	
10	64QAM	25	0	15.88	15.99	15.87	15.55	15.54			
10	64QAM	25	12	15.95	16.02	15.96	15.69	15.66			
10	64QAM	25	25	15.97	15.98	15.94	15.57	15.72			
10	64QAM	50	0	15.95	16.02	15.96	15.64	15.60	Tune-up limit (dBm)	MPR (dB)	
Channel				39675	40148	40620	41093	41565			
Frequency (MHz)				2498.5	2545.8	2593	2540.30	2587.5			
5	QPSK	1	0	15.83	15.83	15.85	15.86	15.90	17.5	0	
5	QPSK	1	12	15.84	15.86	15.79	15.56	15.64			
5	QPSK	1	24	15.97	15.97	15.96	15.87	15.61			
5	QPSK	12	0	15.93	16.06	15.90	15.61	15.59			
5	QPSK	12	7	16.00	16.05	15.99	15.70	15.71	17.5	0	
5	QPSK	12	13	16.03	16.08	15.97	15.64	15.76			
5	QPSK	25	0	16.01	16.09	16.01	15.65	15.63			
5	16QAM	1	0	15.92	16.05	15.92	15.70	15.91			
5	16QAM	1	12	15.89	15.92	15.88	15.82	15.86	17.5	0	
5	16QAM	1	24	16.04	15.91	16.01	15.60	15.85			
5	16QAM	12	0	15.90	16.06	15.88	15.89	15.84			
5	16QAM	12	7	15.97	16.04	15.96	15.72	15.69			
5	16QAM	12	13	15.98	16.05	15.98	15.64	15.74	17.5	0	
5	16QAM	25	0	16.02	16.10	16.04	15.70	15.67			
5	64QAM	1	0	15.81	15.88	15.80	15.89	15.88			
5	64QAM	1	12	15.80	15.90	15.81	15.72	15.64			
5	64QAM	1	24	15.94	16.11	15.88	15.88	15.88	17.5	0	
5	64QAM	12	0	15.94	16.06	15.92	15.60	15.59			
5	64QAM	12	7	16.02	16.08	16.01	15.74	15.71			
5	64QAM	12	13	16.02	16.05	16.00	15.64	15.77			
5	64QAM	25	0	16.00	16.07	16.03	15.69	15.65	Tune-up limit (dBm)	MPR (dB)	

Reduced Power Mode for Handheld On

Band 2 (1900MHz Band) Part 24E												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.10	20.10	19.84	21	0				
20	QPSK	1	49	19.82	19.88	19.80						
20	QPSK	1	99	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	19.96	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	20.02						
20	16QAM	1	99	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	19.91	20.19	19.81	21	0				
20	16QAM	100	0	20.09	20.10	19.92						
20	64QAM	1	0	20.13	20.24	20.38	21	0				
20	64QAM	1	49	20.06	20.20	20.22						
20	64QAM	1	99	20.35	20.16	20.01						
20	64QAM	50	0	19.94	19.81	19.87	21	0				
20	64QAM	50	24	20.06	19.98	19.77						
20	64QAM	50	60	19.91	20.01	19.81						
20	64QAM	100	0	19.98	19.84	19.84	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
15	QPSK	1	0	19.80	19.97	19.80	21	0				
15	QPSK	1	37	19.83	19.86	19.65						
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	20.08	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	19.97	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	21	0				
15	64QAM	1	37	20.02	20.11	20.05						
15	64QAM	1	74	19.96	19.97	20.06						
15	64QAM	36	0	20.07	19.88	19.70	21	0				
15	64QAM	36	20	19.93	19.92	19.85						
15	64QAM	36	39	20.06	19.91	20.03						
15	64QAM	75	0	19.91	19.89	19.82	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	19.68	19.71	19.26	21	0				
10	QPSK	1	25	19.60	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	20.23	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	19.90	20.12	21	0				
10	64QAM	1	25	20.02	19.81	20.08						
10	64QAM	1	49	20.20	20.13	19.99						
10	64QAM	25	0	19.71	19.70	19.48	21	0				
10	64QAM	25	12	19.92	19.81	19.60						
10	64QAM	25	25	19.89	19.73	19.46						
10	64QAM	50	0	19.72	19.68	19.52	Tune-up limit (dBm)	MPR (dB)				
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	19.82	19.68	21	0				
5	64QAM	1	12	19.98	19.77	19.50						
5	64QAM	1	24	19.90	19.61	19.60						
5	64QAM	12	0	19.81	19.65	19.52	21	0				
5	64QAM	12	7	19.84	19.79	19.55						
5	64QAM	12	13	19.86	19.79	19.49						
5	64QAM	25	0	19.80	19.73	19.49	Tune-up limit (dBm)	MPR (dB)				
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	19.35						
3	QPSK	8	0	19.77	19.60	19.43	21	0				
3	QPSK	8	4	19.76	19.67	19.55						
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	19.82	21	0				
3	64QAM	1	8	19.84	19.71	19.50						
3	64QAM	1	14	19.84	19.61	19.56						
3	64QAM	8	0	19.73	19.57	19.48	21	0				
3	64QAM	8	4	19.77	19.75	19.57						
3	64QAM	8	7	19.82	19.71	19.41						
3	64QAM	15	0	19.75	19.65	19.42	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	19.66	19.64	19.36	21	0				
1.4	QPSK	1	3	19.67	19.64	19.41						
1.4	QPSK	1	5	19.62	19.62	19.38						
1.4	QPSK	3	0	19.79	19.63	19.48	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	20.03	19.97						
1.4	16QAM	1	3	20.08	20.09	19.95	21	0				
1.4	16QAM	1	5	19.79	19.80	20.01						
1.4	16QAM	3	0	19.76	19.73	19.45						
1.4	16QAM	3	1	19.79	19.81	19.45	21	0				
1.4	16QAM	3	3	19.77	19.74	19.65						
1.4	64QAM	1	0	19.98	19.77	19.65	21	0				
1.4	64QAM	1	3	19.86	19.74	19.55						
1.4	64QAM	1	5	19.87	19.56	19.58						
1.4	64QAM	3	0	19.76	19.62	19.46	21	0				
1.4	64QAM	3	1	19.82	19.78	19.59						
1.4	64QAM	3	3	19.84	19.76	19.44						
1.4	64QAM	6	0	19.77	19.68	19.47	21	0				

Reduced Power Mode for Handheld On

Band 7 (200MHz Band) Part 27												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	21.97	21.91	21.99	23.5	0				
20	QPSK	1	49	21.98	21.96	21.83						
20	QPSK	1	99	21.94	21.96	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	22.03						
20	QPSK	100	0	22.07	21.95	22.06						
20	16QAM	1	0	22.31	22.34	22.35						
20	16QAM	1	49	22.14	22.12	22.26	23.5	0				
20	16QAM	1	99	22.25	22.23	22.13						
20	16QAM	50	0	22.10	22.02	22.16						
20	16QAM	50	24	22.17	22.04	22.18						
20	16QAM	50	50	22.10	22.14	22.15	23	0.5				
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						
20	64QAM	1	99	22.31	22.18	22.23	23	0.5				
20	64QAM	50	0	21.64	21.56	21.60						
20	64QAM	50	24	21.66	21.66	21.71						
20	64QAM	50	50	21.60	21.62	21.60						
20	64QAM	100	0	21.71	21.55	21.67	22	1.5				
Channel												
Frequency (MHz)										20825 <th>21100<th>21375</th></th>	21100 <th>21375</th>	21375
							2507.5 <th>2535<th>2562.5<th>Tune-up limit (dBm)</th><th>MPR (dB)</th></th></th>	2535 <th>2562.5<th>Tune-up limit (dBm)</th><th>MPR (dB)</th></th>	2562.5 <th>Tune-up limit (dBm)</th> <th>MPR (dB)</th>	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	21.87	21.89	21.87	23.5	0				
15	QPSK	1	37	21.72	21.70	21.73						
15	QPSK	1	74	21.94	21.94	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						
15	16QAM	1	37	21.87	22.02	22.26	23.5	0				
15	16QAM	1	74	22.33	22.34	22.25						
15	16QAM	36	0	22.05	22.00	21.77						
15	16QAM	36	20	22.02	22.03	21.92						
15	16QAM	36	39	22.07	22.07	21.93	23	0.5				
15	16QAM	75	0	22.07	21.96	21.91						
15	64QAM	1	0	22.15	21.95	21.91						
15	64QAM	1	37	21.87	22.06	22.26						
15	64QAM	1	74	21.96	22.20	22.07	23	0.5				
15	64QAM	36	0	21.56	21.70	21.76						
15	64QAM	36	20	21.82	21.87	21.68						
15	64QAM	36	39	21.70	21.66	21.60						
15	64QAM	75	0	21.61	21.87	21.96	22	1.5				
Channel										20800	21100	21400
Frequency (MHz)										2505	2535	2565
10	QPSK	1	0	21.72	21.86	21.77	23.5	0				
10	QPSK	1	25	21.67	21.70	21.78						
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						
10	16QAM	1	25	22.21	22.23	22.08	23.5	0				
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						
10	16QAM	25	25	21.92	21.76	21.65	23	0.5				
10	16QAM	50	0	21.89	21.81	21.65						
10	64QAM	1	0	22.21	22.28	22.03						
10	64QAM	1	25	21.97	21.96	22.00						
10	64QAM	1	49	22.19	22.10	22.05	23	0.5				
10	64QAM	25	0	21.88	21.72	21.68						
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	22	1.5				
Channel										20800	21100	21425
Frequency (MHz)										2502.5	2535	2567.5
5	QPSK	1	0	21.77	21.92	21.68	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						
5	QPSK	12	7	21.66	21.70	21.83	23.5	0				
5	QPSK	12	13	21.53	21.79	21.84						
5	QPSK	25	0	21.52	21.66	21.87						
5	16QAM	1	0	21.98	21.91	22.25						
5	16QAM	1	12	22.04	22.12	21.95	23.5	0				
5	16QAM	1	24	22.01	21.91	21.99						
5	16QAM	12	0	21.61	21.76	21.89						
5	16QAM	12	7	21.61	21.73	21.86						
5	16QAM	12	13	21.59	21.76	21.89	23	0.5				
5	16QAM	25	0	21.58	21.69	21.77						
5	64QAM	1	0	22.10	22.06	22.00						
5	64QAM	1	12	22.00	21.88	21.91						
5	64QAM	1	24	22.11	21.89	22.25	23	0.5				
5	64QAM	12	0	21.53	21.56	21.90						
5	64QAM	12	7	21.54	21.67	21.98						
5	64QAM	12	13	21.52	21.70	21.84						
5	64QAM	25	0	21.63	21.72	21.86	22	1.5				

Band 66												
BW (kHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.87	20.85	20.87	21.5	0				
20	QPSK	1	49	20.48	20.76	20.77						
20	QPSK	1	99	20.72	20.70	20.75						
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	20.96						
20	QPSK	100	0	21.00	20.70	20.96						
20	16QAM	1	0	21.35	21.30	21.34						
20	16QAM	1	49	21.10	21.34	21.15	21.5	0				
20	16QAM	1	99	20.95	20.98	21.26						
20	16QAM	50	0	21.04	20.92	21.03						
20	16QAM	50	24	20.98	20.92	20.96						
20	16QAM	50	50	20.85	20.95	20.97	21.5	0				
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	20.80						
20	64QAM	1	99	21.19	21.01	20.94	21.5	0				
20	64QAM	50	0	20.81	20.81	20.99						
20	64QAM	50	24	20.80	20.78	21.02						
20	64QAM	50	50	20.75	21.02	20.87						
20	64QAM	100	0	20.77	20.92	20.95	21.5	0				
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.76	20.76	20.81	21.5	0				
15	QPSK	1	37	20.37	20.67	20.71						
15	QPSK	1	74	20.61	20.61	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	20.84	20.93	20.92						
15	QPSK	75	0	20.74	20.91	21.02						
15	16QAM	1	0	21.34	21.21	21.35						
15	16QAM	1	37	20.97	21.25	21.09	21.5	0				
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	20.90						
15	16QAM	36	39	20.84	20.93	20.81	21.5	0				
15	16QAM	75	0	20.79	20.90	20.91						
15	16QAM	1	0	21.11	20.87	20.87						
15	16QAM	1	37	20.90	20.81	20.74						
15	64QAM	1	74	21.08	20.92	20.88	21.5	0				
15	64QAM	36	0	20.70	20.72	20.93						
15	64QAM	36	20	20.89	20.74	20.99						
15	64QAM	75	0	20.86	20.83	20.89						
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.64	20.66	20.75	21.5	0				
10	QPSK	1	25	20.27	20.59	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	20.62	20.84	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	21.13	21.29						
10	16QAM	1	25	21.23	21.15	21.03	21.5	0				
10	16QAM	1	49	20.94	21.20	21.14						
10	16QAM	25	0	20.58	20.73	20.91						
10	16QAM	25	12	20.67	20.72	20.84						
10	16QAM	25	25	20.62	20.74	20.85	21.5	0				
10	16QAM	50	0	20.69	20.72	20.85						
10	64QAM	1	0	20.99	20.77	20.81						
10	64QAM	1	25	20.80	20.73	20.68						
10	64QAM	1	49	20.95	20.82	20.82	21.5	0				
10	64QAM	25	0	20.60	20.64	20.97						
10	64QAM	25	12	20.67	20.64	20.93						
10	64QAM	25	25	20.54	20.68	20.78						
10	64QAM	50	0	20.54	20.73	20.83	21.5	0				
Channel												
Frequency (MHz)												
5	QPSK	1	0	20.82	20.81	20.84	21.5	0				
5	QPSK	1	12	20.42	20.71	20.74						
5	QPSK	1	24	20.67	20.66	20.72						
5	QPSK	12	0	20.69	20.94	20.97						
5	QPSK	12	7	20.84	20.94	20.86	21.5	0				
5	QPSK	12	13	20.72	20.87	20.95						
5	QPSK	25	0	20.80	20.66	21.05						
5	16QAM	1	0	20.94	21.25	21.34						
5	16QAM	1	12	21.03	21.20	21.12	21.5	0				
5	16QAM	1	24	20.89	20.93	21.23						
5	16QAM	12	0	20.76	20.88	21.00						
5	16QAM	12	7	20.82	20.97	20.93						
5	16QAM	12	13	20.80	20.91	20.94	21.5	0				
5	16QAM	25	0	20.84	20.84	20.94						
5	64QAM	1	0	21.17	20.92	20.80						
5	64QAM	1	12	20.95	20.85	20.77						
5	64QAM	1	24	21.14	20.97	20.91	21.5	0				
5	64QAM	12	0	20.75	20.76	20.96						
5	64QAM	12	7	20.75	20.76	20.94						
5	64QAM	12	13	20.69	20.97	20.94						
5	64QAM	25	0	20.72	20.88	20.92	21.5	0				
Channel												
Frequency (MHz)												
3	QPSK	1	0	20.99	20.62	20.72	21.5	0				
3	QPSK	1	8	20.31	20.54	20.62						
3	QPSK	1	14	20.44	20.47	20.60						
3	QPSK	8	0	20.48	20.77	20.85						
3	QPSK	8	4	20.61	20.75	20.73	21.5	0				
3	QPSK	8	7	20.51	20.70	20.83						
3	QPSK	15	0	20.57	20.47	20.93						
3	16QAM	1	0	20.83	21.08	21.26						
3	16QAM	1	8	20.80	21.11	21.00	21.5	0				
3	16QAM	1	14	20.86	20.76	21.11						
3	16QAM	8	0	20.53	20.69	20.80						
3	16QAM	8	4	20.71	20.76	20.81						
3	16QAM	8	7	20.57	20.72	20.82	21.5	0				
3	16QAM	15	0	20.63	20.67	20.82						
3	64QAM	1	0	20.94	20.73	20.78						
3	64QAM	1	8	20.74	20.68	20.65						
3	64QAM	1	14	20.91	20.78	20.79	21.5	0				
3	64QAM	8	0	20.52	20.59	20.84						
3	64QAM	8	4	20.52	20.61	20.90						
3	64QAM	8	7	20.48	20.80	20.72						
3	64QAM	15	0	20.49	20.69	20.80	21.5	0				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	20.70	20.71	20.78	21.5	0				
1.4	QPSK	1	3	20.32	20.63	20.68						
1.4	QPSK	1	5	20.55	20.56	20.66						
1.4	QPSK	3	0	20.59	20.96	20.91						
1.4	QPSK	3	1	20.72	20.54	20.70	21.5	0				
1.4	QPSK	3	3	20.62	20.79	20.89						
1.4	16QAM	1	0	20.84	21.17	21.12						
1.4	16QAM	1	3	20.91	21.20	21.06						
1.4	16QAM	1	5	20.79	20.85	21.17	21.5	0				
1.4	16QAM	3	0	20.64	20.76	20.94						
1.4	16QAM	3	1	20.82	20.79	20.87						
1.4	16QAM	3	3	20.68	20.81	20.88						
1.4	16QAM	6	0	20.74	20.78	20.88	21.5	0				
1.4	16QAM	1	0	21.05	20.82	20.84						
1.4	16QAM	1	3	20.85	20.67	20.71						
1.4	16QAM	1	5	21.02	20.67	20.85						
1.4	16QAM	3	1	20.63	20.68	20.80	21.5	0				
1.4	16QAM	3	3	20.61	20.69	20.96						
1.4	16QAM	3	3	20.59	20.89	20.78						
1.4	16QAM	6	0	20.60	20.78	20.86						

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		UL#	UL	LTE	BW	DL	DL	With CA	Without CA	
			Band	(MHz)	Freq.	Channel	Mod.	RB	RB	Band	(MHz)	Freq.	Channel	Tx. Power (dBm)	Tx. Power (dBm)	
					(MHz)				Offset			(MHz)				
Inter-Band	CA_4A-7A	Band 4	20M	1745	20300	16QAM	1	99	Band 7	20M	2655	3100	23.21	23.88		
		Band 7	20M	2560	21350	16QAM	1	0	Band 4	20M	2132.5	2175	23.26	23.98		
	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	2680.2	3152	23.61	23.98
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	
Non-Contiguous		CA_66C	Band 66	20M	1720	132072	16QAM	1	0	Band 66	20M	2139.8	66734	23.76	23.59	
		CA_4A-4A	Band 4	20M	1745	20300	16QAM	1	99	Band 4	5M	2112.5	1975	23.07	23.88	
		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	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA			
		Band	(MHz)	Freq.		Channel	RB		Offset	Band	(MHz)		Freq.	Channel	Band	(MHz)	Freq.	Channel	Tx. Power (dBm)	Tx. Power (dBm)
		Band	(MHz)	Freq.																
Inter-Band	CA_2A-4A-5A	Band 2	20M	1880	18900	16QAM	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	23.82	23.94		
		Band 4	20M	1745	20300	16QAM	1	99	Band 5	10M	881.5	2525	Band 2	20M	1960	900	23.23	23.88		
	CA_7A-66A-66A	Band 5	10M	836.5	20525	16QAM	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	22.82	23.52		
		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.	Channel		RB	RB	Band	(MHz)	Freq.	Channel	Band	(MHz)	Freq.	Channel	Band	(MHz)	Freq.	Channel	Tx. Power	Tx. Power
				(MHz)				Offset			(MHz)				(MHz)				(MHz)		(dBm)	(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 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	19.10	18.66	20.5		0	
10	QPSK	1	25	18.64	18.62	18.83				
10	QPSK	1	49	18.70	18.77	18.66				
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	18.89				
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				
10	64QAM	1	49	18.87	18.84	18.79	20.5		0	
10	64QAM	25	0	18.76	18.77	18.69				
10	64QAM	25	12	18.84	18.79	18.77				
10	64QAM	25	25	18.77	18.76	18.72				
10	64QAM	50	0	18.82	18.75	18.78				
Channel				20425	20525	20525	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				826.5 <th>836.5<th>846.5</th><th colspan="3"></th></th>	836.5 <th>846.5</th> <th colspan="3"></th>	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	19.06	19.08	18.89				
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	18.97	18.78				
5	64QAM	1	24	18.99	18.98	18.76	20.5		0	
5	64QAM	12	0	18.87	18.86	18.74				
5	64QAM	12	7	18.84	18.81	18.71				
5	64QAM	12	13	18.82	18.79	18.68				
5	64QAM	25	0	18.88	18.83	18.70				
Channel				20415	20525	20535	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				825.5 <th>836.5<th>847.5</th><th colspan="3"></th></th>	836.5 <th>847.5</th> <th colspan="3"></th>	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				
3	16QAM	1	8	18.90	18.84	18.75	20.5		0	
3	16QAM	1	14	19.07	19.07	18.87				
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	18.81	18.77	18.66				
3	64QAM	1	8	19.04	19.04	18.90				
3	64QAM	1	14	18.95	18.93	18.84	20.5		0	
3	64QAM	8	0	18.92	18.86	18.78				
3	64QAM	8	4	18.89	18.92	18.75				
3	64QAM	8	7	18.86	18.82	18.72				
3	64QAM	15	0	18.85	18.81	18.73				
Channel				20407	20525	20543	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				824.7 <th>836.5<th>848.3</th><th colspan="3"></th></th>	836.5 <th>848.3</th> <th colspan="3"></th>	848.3				
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	18.76	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				
1.4	16QAM	1	3	19.08	19.07	18.90	20.5		0	
1.4	16QAM	1	5	19.03	18.97	18.79				
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	18.96	18.89	18.75				
1.4	64QAM	1	3	18.98	18.94	18.75				
1.4	64QAM	1	5	18.89	18.88	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	18.67				
1.4	64QAM	3	3	18.87	18.79	18.67				
1.4	64QAM	6	0	18.83	18.74	18.66	20.5	0	0	

Band 66									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (MHz)	Power Middle Ch. (MHz)	Power High Ch. (MHz)	Tune-up limit (dBm)	MPR (dB)	
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	11.78	12.24	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			
20	QPSK	50	24	11.80	11.76	11.93	13.5	0	
20	QPSK	50	50	11.77	11.75	11.96			
20	QPSK	100	0	11.83	12.09	11.94			
20	16QAM	1	0	11.80	12.12	12.23			
20	16QAM	1	49	11.74	11.94	12.12	13.5	0	
20	16QAM	1	99	11.82	12.06	12.17			
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			
20	64QAM	1	99	11.82	11.95	12.02	13.5	0	
20	64QAM	50	0	11.79	11.78	12.01			
20	64QAM	50	24	11.85	11.80	11.98			
20	64QAM	50	50	11.78	11.77	12.00			
20	64QAM	100	0	11.84	11.81	11.97			
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	11.75	11.73	11.98	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			
15	QPSK	36	20	11.82	11.82	11.99	13.5	0	
15	QPSK	36	39	11.80	11.79	12.04			
15	QPSK	75	0	11.84	11.80	12.01			
15	16QAM	1	0	12.14	12.16	11.84			
15	16QAM	1	37	12.08	12.05	12.14	13.5	0	
15	16QAM	1	74	12.03	12.07	12.08			
15	16QAM	36	0	11.91	11.82	12.01			
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	11.96	11.99	12.16			
15	64QAM	1	37	11.79	11.84	12.13			
15	64QAM	1	74	11.96	11.94	12.05	13.5	0	
15	64QAM	36	0	11.92	11.86	12.08			
15	64QAM	36	20	11.86	11.83	11.95			
15	64QAM	36	39	11.84	11.81	12.03			
15	64QAM	75	0	11.89	11.86	11.99			
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	11.89	11.83	12.03	13.5	0	
10	QPSK	1	25	11.86	11.77	11.96			
10	QPSK	1	49	11.89	11.73	11.97			
10	QPSK	25	0	11.92	11.86	12.08			
10	QPSK	25	12	12.02	11.95	12.05	13.5	0	
10	QPSK	25	25	11.96	11.92	12.14			
10	QPSK	50	0	12.01	11.94	12.10			
10	16QAM	1	0	12.01	11.91	12.09			
10	16QAM	1	25	12.12	12.14	11.87	13.5	0	
10	16QAM	1	49	12.04	11.98	12.15			
10	16QAM	25	0	12.03	11.96	12.08			
10	16QAM	25	12	12.04	11.91	12.12			
10	16QAM	25	25	11.99	11.85	12.15	13.5	0	
10	16QAM	50	0	12.01	11.91	12.09			
10	64QAM	1	0	12.12	12.14	11.87			
10	64QAM	1	25	12.18	12.11	12.03			
10	64QAM	1	49	12.16	12.15	11.96	13.5	0	
10	64QAM	25	0	12.06	11.98	12.14			
10	64QAM	25	12	12.04	11.96	12.15			
10	64QAM	25	25	11.96	11.91	12.15			
10	64QAM	50	0	11.97	11.92	12.09			
Channel				131977	132322	132647	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	11.92	11.78	12.04	13.5	0	
5	QPSK	1	12	11.93	11.87	12.07			
5	QPSK	1	24	11.88	11.82	12.01			
5	QPSK	12	0	12.00	11.91	12.17			
5	QPSK	12	7	12.07	11.97	12.15	13.5	0	
5	QPSK	12	13	11.99	11.95	12.12			
5	QPSK	25	0	11.97	11.93	12.14			
5	16QAM	1	0	11.95	12.14	12.05			
5	16QAM	1	12	11.93	11.95	12.07	13.5	0	
5	16QAM	1	24	12.14	12.19	11.81			
5	16QAM	12	0	12.00	11.96	12.11			
5	16QAM	12	7	12.02	12.00	11.83			
5	16QAM	12	13	12.02	11.95	12.18	13.5	0	
5	16QAM	25	0	12.02	11.94	12.17			
5	64QAM	1	0	12.16	12.03	12.03			
5	64QAM	1	12	12.16	12.10	12.02			
5	64QAM	1	24	12.12	12.09	12.02	13.5	0	
5	64QAM	12	0	12.00	11.91	12.02			
5	64QAM	12	7	11.98	11.92	12.15			
5	64QAM	12	13	11.99	11.88	12.12			
5	64QAM	25	0	12.00	11.91	12.18			
Channel				131987	132322	132687	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	11.91	11.79	12.08	13.5	0	
3	QPSK	1	8	11.97	11.89	12.10			
3	QPSK	1	14	11.86	11.83	12.01			
3	QPSK	8	0	11.99	11.91	12.12			
3	QPSK	8	4	11.98	11.94	12.14	13.5	0	
3	QPSK	8	7	11.95	11.89	12.07			
3	QPSK	15	0	11.95	11.91	12.14			
3	16QAM	1	0	12.21	12.17	11.96			
3	16QAM	1	8	12.07	12.07	11.96	13.5	0	
3	16QAM	1	14	12.16	12.09	11.96			
3	16QAM	8	0	12.01	11.96	11.93			
3	16QAM	8	4	12.08	11.96	12.23			
3	16QAM	8	7	12.03	11.96	12.21	13.5	0	
3	16QAM	15	0	11.99	11.93	12.01			
3	64QAM	1	0	12.07	12.07	12.08			
3	64QAM	1	8	12.19	12.14	12.03			
3	64QAM	1	14	12.07	12.00	11.99	13.5	0	
3	64QAM	8	0	11.96	11.91	12.15			
3	64QAM	8	4	12.01	11.96	12.17			
3	64QAM	8	7	11.96	11.87	12.16			
3	64QAM	15	0	11.98	11.86	12.15			
Channel				131979	132322	132685	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	11.89	11.80	12.03	13.5	0	
1.4	QPSK	1	3	11.96	11.81	12.07			
1.4	QPSK	1	5	11.88	11.78	11.99			
1.4	QPSK	3	0	11.90	11.87	12.08			
1.4	QPSK	3	3	11.93	11.90	12.14	13.5	0	
1.4	QPSK	3	3	11.89	11.84	11.89			
1.4	QPSK	6	0	11.88	11.88	11.98			
1.4	16QAM	1	0	11.90	11.87	12.06			
1.4	16QAM	1	3	11.90	11.87	11.90	13.5	0	
1.4	16QAM	1	5	11.93	11.90	11.93			
1.4	16QAM	3	0	12.00	11.91	12.14			
1.4	16QAM	3	3	12.04	11.97	12.10			
1.4	16QAM	3	3	11.97	11.90	12.13	13.5	0	
1.4	16QAM	6	0	12.05	11.92	12.00			
1.4	64QAM	1	0	12.09	11.96	12.04			
1.4	64QAM	1	3	12.12	12.06	11.97			
1.4	64QAM	1	5	12.07	12.04	12.05	13.5	0	
1.4	64QAM	3	0	12.05	11.96	12.19			
1.4	64QAM	3	3	12.06	12.04	11.81			
1.4	64QAM	3	3	11.99	11.90	12.23			
1.4	64QAM	6	0	11.96	11.87	12.12	13.5	0	

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	19.10	18.66	20.5		0
10	QPSK	1	25	18.64	18.62	18.83			
10	QPSK	1	49	18.70	18.77	18.66			
10	QPSK	25	0	18.71	18.82	18.69			
10	QPSK	25	12	18.80	18.71	18.78	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	18.78	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			
10	64QAM	1	49	18.87	18.84	18.79	20.5		0
10	64QAM	25	0	18.76	18.77	18.69			
10	64QAM	25	12	18.84	18.79	18.77			
10	64QAM	25	25	18.77	18.76	18.72			
10	64QAM	50	0	18.82	18.75	18.78	Tune-up limit (dBm)	MPR (dB)	
Channel				20425	20525	20625			
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	19.08	18.89			
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	18.97	18.78			
5	64QAM	1	24	18.99	18.98	18.76	20.5		0
5	64QAM	12	0	18.87	18.86	18.74			
5	64QAM	12	7	18.84	18.81	18.71			
5	64QAM	12	13	18.82	18.79	18.68			
5	64QAM	25	0	18.88	18.83	18.70	Tune-up limit (dBm)	MPR (dB)	
Channel				20415	20525	20635			
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			
3	16QAM	1	8	18.90	18.84	18.75	20.5		0
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			
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	18.81	18.77	18.66			
3	64QAM	1	8	19.04	19.04	18.90			
3	64QAM	1	14	18.95	18.93	18.84	20.5		0
3	64QAM	8	0	18.92	18.86	18.78			
3	64QAM	8	4	18.89	18.92	18.75			
3	64QAM	8	7	18.86	18.82	18.72			
3	64QAM	15	0	18.85	18.81	18.73	Tune-up limit (dBm)	MPR (dB)	
Channel				20407	20525	20643			
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	18.76	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			
1.4	16QAM	1	3	19.08	19.07	18.90	20.5		0
1.4	16QAM	1	5	19.03	18.97	18.79			
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	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	18.68			
1.4	64QAM	3	1	18.89	18.83	18.72			
1.4	64QAM	3	3	18.87	18.79	18.67			
1.4	64QAM	6	0	18.83	18.74	18.66	20.5	0	

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	11.68	11.53	12	0			
20	QPSK	1	49	11.63	11.53	11.50					
20	QPSK	1	99	11.45	11.57	11.64					
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					
20	16QAM	50	50	11.55	11.50	11.70	12	0			
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	11.61	11.57	11.59					
20	64QAM	50	0	11.57	11.50	11.70					
20	64QAM	50	24	11.60	11.53	11.70					
20	64QAM	50	50	11.54	11.50	11.68	12	0			
20	64QAM	100	0	11.58	11.50	11.69					
Channel				132047	132322	132597	Tune-up limit (dBm)				
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	11.49	11.39	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	11.63	12	0			
15	16QAM	1	74	11.76	11.72	11.76					
15	16QAM	36	0	11.57	11.50	11.69					
15	16QAM	36	20	11.62	11.53	11.66					
15	16QAM	36	39	11.59	11.51	11.73	12	0			
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					
15	64QAM	1	74	11.61	11.55	11.70	12	0			
15	64QAM	36	0	11.65	11.52	11.61					
15	64QAM	36	20	11.60	11.51	11.65					
15	64QAM	36	39	11.61	11.50	11.73					
15	64QAM	75	0	11.60	11.54	11.64	12	0			
15	64QAM	75	0	11.60	11.54	11.64					
Channel				132022	132322	132622	Tune-up limit (dBm)				
Frequency (MHz)				1715	1745	1775					
10	QPSK	1	0	11.36	11.36	11.62	12	0			
10	QPSK	1	25	11.41	11.36	11.61					
10	QPSK	1	49	11.40	11.30	11.55					
10	QPSK	25	0	11.48	11.42	11.68					
10	QPSK	25	12	11.58	11.53	11.67	12	0			
10	QPSK	25	25	11.57	11.51	11.76					
10	QPSK	50	0	11.58	11.54	11.67					
10	16QAM	1	0	11.79	11.80	11.61					
10	16QAM	1	25	11.81	11.71	11.55	12	0			
10	16QAM	1	49	11.80	11.76	11.68					
10	16QAM	25	0	11.45	11.38	11.67					
10	16QAM	25	12	11.56	11.53	11.68					
10	16QAM	25	25	11.56	11.46	11.72	12	0			
10	16QAM	50	0	11.57	11.51	11.67					
10	64QAM	1	0	11.87	11.76	11.68	12			0	
10	64QAM	1	25	11.82	11.69	11.67					
10	64QAM	1	49	11.74	11.72	11.67					
10	64QAM	25	0	11.62	11.45	11.68					
10	64QAM	25	12	11.62	11.51	11.72	12	0			
10	64QAM	25	25	11.54	11.48	11.74					
10	64QAM	50	0	11.58	11.51	11.64					
Channel				131917	132322	132647				Tune-up limit (dBm)	
Frequency (MHz)				1712.5	1745	1777.5					
5	QPSK	1	0	11.30	11.19	11.53	12	0			
5	QPSK	1	12	11.34	11.31	11.56					
5	QPSK	1	24	11.24	11.27	11.50					
5	QPSK	12	0	11.43	11.37	11.67					
5	QPSK	12	7	11.43	11.39	11.68	12	0			
5	QPSK	12	13	11.35	11.38	11.66					
5	QPSK	25	0	11.38	11.38	11.63					
5	16QAM	1	0	11.66	11.59	11.87					
5	16QAM	1	12	11.64	11.61	11.44	12	0			
5	16QAM	1	24	11.59	11.59	11.38					
5	16QAM	12	0	11.45	11.38	11.66					
5	16QAM	12	7	11.40	11.45	11.70					
5	16QAM	12	13	11.40	11.43	11.64	12	0			
5	16QAM	25	0	11.41	11.38	11.63					
5	64QAM	1	0	11.52	11.47	11.73	12			0	
5	64QAM	1	12	11.57	11.64	11.80					
5	64QAM	1	24	11.46	11.54	11.74					
5	64QAM	12	0	11.49	11.59	11.60					
5	64QAM	12	7	11.38	11.45	11.64	12	0			
5	64QAM	12	13	11.40	11.39	11.62					
5	64QAM	25	0	11.42	11.39	11.66					
Channel				131987	132322	132657				Tune-up limit (dBm)	
Frequency (MHz)				1711.5	1745	1778.5					
3	QPSK	1	0	11.26	11.21	11.44	12	0			
3	QPSK	1	8	11.27	11.30	11.50					
3	QPSK	1	14	11.20	11.20	11.46					
3	QPSK	8	0	11.31	11.30	11.54					
3	QPSK	8	0	11.36	11.30	11.50	12	0			
3	QPSK	8	7	11.34	11.29	11.51					
3	QPSK	15	0	11.33	11.32	11.53					
3	16QAM	1	0	11.59	11.53	11.76					
3	16QAM	1	8	11.67	11.64	11.86	12	0			
3	16QAM	1	14	11.57	11.56	11.75					
3	16QAM	8	0	11.46	11.49	11.62					
3	16QAM	8	4	11.47	11.46	11.65					
3	16QAM	8	7	11.40	11.42	11.57	12	0			
3	16QAM	15	0	11.40	11.38	11.56					
3	64QAM	1	0	11.48	11.47	11.65	12			0	
3	64QAM	1	8	11.58	11.59	11.77					
3	64QAM	1	14	11.45	11.46	11.65					
3	64QAM	8	0	11.38	11.38	11.55					
3	64QAM	8	0	11.43	11.44	11.60	12	0			
3	64QAM	8	7	11.31	11.34	11.54					
3	64QAM	15	0	11.35	11.32	11.52					
Channel				131979	132322	132685				Tune-up limit (dBm)	
Frequency (MHz)				1710.7	1745	1779.3					
1.4	QPSK	1	0	11.36	11.29	11.50	12	0			
1.4	QPSK	1	3	11.42	11.33	11.55					
1.4	QPSK	1	5	11.35	11.26	11.49					
1.4	QPSK	3	0	11.46	11.32	11.45					
1.4	QPSK	3	1	11.44	11.36	11.57	12	0			
1.4	QPSK	3	3	11.32	11.35	11.52					
1.4	QPSK	6	0	11.44	11.37	11.58					
1.4	16QAM	1	0	11.64	11.58	11.79					
1.4	16QAM	1	3	11.67	11.68	11.85	12	0			
1.4	16QAM	1	5	11.59	11.59	11.77					
1.4	16QAM	3	0	11.45	11.44	11.62					
1.4	16QAM	3	1	11.50	11.47	11.69					
1.4	16QAM	3	3	11.46	11.42	11.61	12	0			
1.4	16QAM	6	0	11.47	11.44	11.65					
1.4	64QAM	1	0	11.51	11.50	11.70	12			0	
1.4	64QAM	1	3	11.56	11.53	11.81					
1.4	64QAM	1	5	11.52	11.47	11.68					
1.4	64QAM	3	0	11.47	11.41	11.59					
1.4	64QAM	3	1	11.52	11.44	11.63	12	0			
1.4	64QAM	3	3	11.47	11.44	11.64					
1.4	64QAM	6	0	11.43	11.35	11.58	12			0	

Reduced Power Mode for Handheld 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	22.32	22.52	22.17	23.5	0	
10	QPSK	1	25	22.26	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			
10	16QAM	25	25	21.38	21.37	21.19	22	1.5	
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			
10	64QAM	1	49	21.66	21.59	21.52	22	1.5	
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			
10	64QAM	50	0	20.41	20.30	20.37	Tune-up limit (dBm)		
Channel				20425	20525	20625	MPR (dB)		
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	22.22			
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			
5	16QAM	12	13	21.37	21.35	21.34	22	1.5	
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			
5	64QAM	1	24	21.49	21.51	21.35	22	1.5	
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	20.76			
5	64QAM	25	0	20.43	20.33	20.74	Tune-up limit (dBm)		
Channel				20415	20525	20635	MPR (dB)		
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			
3	16QAM	8	7	21.41	21.42	21.03	22	1.5	
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			
3	64QAM	1	14	21.51	21.46	21.37	22	1.5	
3	64QAM	8	0	20.46	20.39	20.64			
3	64QAM	8	4	20.43	20.42	20.73			
3	64QAM	8	7	20.38	20.36	20.66			
3	64QAM	15	0	20.41	20.30	20.75	Tune-up limit (dBm)		
Channel				20407	20525	20643	MPR (dB)		
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	23	0.5	
1.4	QPSK	3	3	22.32	22.23	22.09			
1.4	QPSK	6	0	22.37	22.28	22.14			
1.4	16QAM	1	0	22.30	22.18	22.43			
1.4	16QAM	1	3	22.24	22.09	22.44	23	0.5	
1.4	16QAM	1	5	22.27	22.11	22.29			
1.4	16QAM	3	0	22.41	22.30	22.16			
1.4	16QAM	3	1	22.48	22.34	22.22			
1.4	16QAM	3	3	22.36	22.35	22.12	22	1.5	
1.4	16QAM	6	0	21.44	21.34	21.06			
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	132322	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	16.67	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	16.89	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			
20	16QAM	50	50	16.65	16.62	16.74	18	0	
20	16QAM	100	0	16.68	16.64	16.74			
20	64QAM	1	0	16.89	16.83	16.93			
20	64QAM	1	49	16.79	16.67	16.79			
20	64QAM	1	99	16.67	16.75	16.76	18	0	
20	64QAM	50	0	16.62	16.59	16.73			
20	64QAM	50	24	16.70	16.62	16.68			
20	64QAM	50	50	16.65	16.58	16.73			
20	64QAM	100	0	16.70	16.62	16.74			
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	16.46	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	16.52	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	16.78			
15	16QAM	36	0	16.55	16.50	16.66			
15	16QAM	36	20	16.57	16.51	16.67			
15	16QAM	36	39	16.57	16.52	16.67	18	0	
15	16QAM	75	0	16.53	16.52	16.64			
15	64QAM	1	0	16.92	16.68	17.02			
15	64QAM	1	37	16.80	16.54	16.69			
15	64QAM	1	74	16.83	16.67	16.64	18	0	
15	64QAM	36	0	16.54	16.48	16.68			
15	64QAM	36	20	16.56	16.52	16.67			
15	64QAM	36	39	16.56	16.49	16.64			
15	64QAM	75	0	16.50	16.54	16.61	Tune-up limit (dBm)	MPR (dB)	
Channel				132022	132322	132622			
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	16.63	16.52	16.53	18	0	
10	QPSK	1	25	16.56	16.50	16.48			
10	QPSK	1	49	16.45	16.46	16.50			
10	QPSK	25	0	16.68	16.54	16.54			
10	QPSK	25	12	16.68	16.65	16.67	18	0	
10	QPSK	25	25	16.65	16.64	16.61			
10	QPSK	50	0	16.67	16.67	16.54			
10	16QAM	1	0	17.02	16.90	16.86			
10	16QAM	1	25	16.96	16.85	16.87	18	0	
10	16QAM	1	49	16.90	16.85	16.81			
10	16QAM	25	0	16.72	16.58	16.59			
10	16QAM	25	12	16.72	16.64	16.59			
10	16QAM	25	25	16.65	16.61	16.64	18	0	
10	16QAM	50	0	16.69	16.65	16.57			
10	16QAM	1	0	16.99	16.96	16.97			
10	16QAM	1	25	16.93	16.90	16.96			
10	64QAM	1	0	16.96	16.85	16.85	18	0	
10	64QAM	25	0	16.71	16.60	16.53			
10	64QAM	25	12	16.72	16.69	16.58			
10	64QAM	25	25	16.66	16.61	16.56			
10	64QAM	50	0	16.69	16.62	16.56	Tune-up limit (dBm)	MPR (dB)	
Channel				131997	132322	132647			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	16.61	16.50	16.60	18	0	
5	QPSK	1	12	16.60	16.53	16.60			
5	QPSK	1	24	16.54	16.47	16.59			
5	QPSK	12	0	16.72	16.63	16.70			
5	QPSK	12	7	16.72	16.63	16.74	18	0	
5	QPSK	12	13	16.67	16.58	16.63			
5	QPSK	25	0	16.68	16.58	16.66			
5	16QAM	1	0	16.86	16.72	16.88			
5	16QAM	1	12	16.79	16.74	16.73	18	0	
5	16QAM	1	24	16.85	16.72	16.82			
5	16QAM	12	0	16.69	16.54	16.70			
5	16QAM	12	7	16.67	16.59	16.72			
5	16QAM	12	13	16.65	16.62	16.69	18	0	
5	16QAM	25	0	16.67	16.59	16.71			
5	64QAM	1	0	16.84	16.69	16.96			
5	64QAM	1	12	16.79	16.68	16.85			
5	64QAM	1	24	16.77	16.67	16.81	18	0	
5	64QAM	12	0	16.67	16.55	16.72			
5	64QAM	12	7	16.66	16.64	16.73			
5	64QAM	12	13	16.63	16.58	16.70			
5	64QAM	25	0	16.67	16.60	16.70	Tune-up limit (dBm)	MPR (dB)	
Channel				131972	132322	132647			
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	16.56	16.38	16.56	18	0	
3	QPSK	1	8	16.57	16.45	16.61			
3	QPSK	1	14	16.52	16.39	16.52			
3	QPSK	8	0	16.61	16.47	16.68			
3	QPSK	8	4	16.64	16.54	16.70	18	0	
3	QPSK	8	7	16.63	16.53	16.67			
3	QPSK	15	0	16.59	16.46	16.63			
3	16QAM	1	0	16.79	16.64	16.82			
3	16QAM	1	8	16.86	16.78	16.86	18	0	
3	16QAM	1	14	16.79	16.69	16.84			
3	16QAM	8	0	16.63	16.48	16.69			
3	16QAM	8	4	16.66	16.59	16.72			
3	16QAM	8	7	16.62	16.54	16.68	18	0	
3	16QAM	15	3	16.60	16.56	16.69			
3	64QAM	1	0	16.72	16.63	16.86			
3	64QAM	1	8	16.78	16.73	16.82			
3	64QAM	1	14	16.70	16.70	16.83	18	0	
3	64QAM	8	0	16.58	16.46	16.68			
3	64QAM	8	4	16.61	16.56	16.70			
3	64QAM	8	7	16.57	16.49	16.65			
3	64QAM	15	0	16.54	16.40	16.67	Tune-up limit (dBm)	MPR (dB)	
Channel				131972	132322	132655			
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	16.34	16.28	16.45	18	0	
1.4	QPSK	1	3	16.45	16.37	16.50			
1.4	QPSK	1	5	16.38	16.29	16.41			
1.4	QPSK	3	0	16.45	16.34	16.46			
1.4	QPSK	3	1	16.42	16.37	16.52	18	0	
1.4	QPSK	3	1	16.36	16.28	16.40			
1.4	QPSK	6	0	16.51	16.39	16.54			
1.4	16QAM	1	0	16.69	16.59	16.75			
1.4	16QAM	1	3	16.75	16.70	16.82	18	0	
1.4	16QAM	1	5	16.67	16.60	16.77			
1.4	16QAM	3	0	16.51	16.42	16.57			
1.4	16QAM	3	1	16.36	16.46	16.57			
1.4	16QAM	3	3	16.52	16.39	16.54	18	0	
1.4	16QAM	6	0	16.62	16.45	16.65			
1.4	64QAM	1	0	16.60	16.52	16.69			
1.4	64QAM	1	3	16.66	16.58	16.67			
1.4	64QAM	1	5	16.60	16.52	16.63	18	0	
1.4	64QAM	3	0	16.55	16.41	16.52			
1.4	64QAM	3	1	16.56	16.43	16.54			
1.4	64QAM	3	3	16.54	16.38	16.55			
1.4	64QAM	6	0	16.50	16.42	16.50	18	0	

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	Tune-up limit (dBm)	MPR (dB)
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	Tune-up limit (dBm)	MPR (dB)
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	Tune-up limit (dBm)	MPR (dB)
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	Tune-up limit (dBm)	MPR (dB)
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
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
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
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
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
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
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
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
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
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
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
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
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					
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm) (+2)	Tune-Up Limit	Duty Cycle %
	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	

5GHz WLAN MIMO	Default Power Table (Max Power) WWAN Off & At Head Power Table 4					
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm) (+2)	Tune-Up Limit	Duty Cycle %
	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	
		48	5240	19.55	20.00	
	802.11n-HT40 MCS0	38	5190	14.35	15.00	96.32
		46	5230	19.68	20.00	
	802.11ac-VHT20 MCS0	36	5180	18.08	18.00	98.16
		40	5200	18.45	19.00	
		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	
	802.11ac-VHT80 MCS0	42	5210	12.47	13.00	93.35

5GHz WLAN MIMO	Default Power Table (Max Power) WWAN Off & At Head Power Table 4					
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm) (+2)	Tune-Up Limit	Duty Cycle %
	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	
		64	5320	18.04	18.50	
	802.11n-HT40 MCS0	54	5270	19.10	19.50	96.32
		62	5310	16.63	17.00	
	802.11ac-VHT20 MCS0	52	5260	18.76	19.00	98.16
		56	5280	18.54	19.00	
		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	
	802.11ac-VHT80 MCS0	58	5290	14.01	14.50	93.35

5GHz WLAN MIMO	Default Power Table (Max Power) WWAN Off & At Head Power Table 4					
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm) (+2)	Tune-Up Limit	Duty Cycle %
	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	
		140	5700	19.39	20.00	
	802.11n-HT20 MCS0	100	5500	19.25	19.50	98.16
		116	5580	19.26	19.50	
		124	5620	18.74	19.00	
		132	5660	18.41	18.50	
		140	5700	18.41	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	
		134	5670	18.82	19.00	
	802.11ac-VHT20 MCS0	100	5500	19.29	19.50	98.16
		116	5580	19.18	19.50	
		124	5620	18.69	19.00	
		132	5660	18.35	18.50	
		140	5700	18.36	18.50	
	802.11ac-VHT40 MCS0	102	5510	17.31	17.50	96.32
		110	5550	20.11	20.50	
		126	5630	18.94	19.50	
		134	5670	18.70	19.00	
	802.11ac-VHT80 MCS0	106	5530	15.03	15.50	93.35
		122	5610	17.86	18.50	

5GHz WLAN MIMO	Default Power Table (Max Power) WWAN Off & At Head Power Table 4					
5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm) (+2)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	149	5745	19.92	20.00	98.28
		157	5785	19.73	20.00	
		165	5825	19.61	20.00	
	802.11n-HT20 MCS0	149	5745	18.85	19.00	98.16
		157	5785	18.53	19.00	
		165	5825	18.50	19.00	
	802.11n-HT40 MCS0	151	5755	19.23	19.50	96.32
		159	5795	18.90	19.00	
	802.11ac-VHT20 MCS0	149	5745	18.87	19.00	98.16
		157	5785	18.54	19.00	
		165	5825	18.45	18.50	
	802.11ac-VHT40 MCS0	151	5755	19.15	19.50	96.32
		159	5795	18.94	19.00	
	802.11ac-VHT80 MCS0	155	5775	17.58	18.00	93.35

2.4GHz WLAN MIMO	WWAN off & Body Worn Power Table 6					
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm) (+2)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	18.03	19.50	100.00
		6	2437	18.36	19.50	
		11	2462	18.42	19.50	
	802.11g 6Mbps	1	2412	Not Required	19.50	98.28
		6	2437		19.50	
		11	2462		19.50	
	802.11n-HT20 MCS0	1	2412		19.50	98.16
		6	2437		19.50	
		11	2462		19.50	

5GHz WLAN MIMO	WWAN off & Body Worn Power Table 6					
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm) (+2)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	Not Required	17.50	98.28
		40	5200		17.50	
		44	5220		17.50	
		48	5240		17.50	
	802.11n-HT20 MCS0	36	5180		17.50	98.16
		40	5200		17.50	
		44	5220		17.50	
		48	5240		17.50	
	802.11n-HT40 MCS0	38	5190		15.00	96.32
		46	5230		17.50	
	802.11ac-VHT20 MCS0	36	5180		17.50	98.16
		40	5200		17.50	
		44	5220		17.50	
		48	5240		17.50	
	802.11ac-VHT40 MCS0	38	5190		15.00	96.32
		46	5230		17.50	
	802.11ac-VHT80 MCS0	42	5210		13.00	93.35

5GHz WLAN MIMO	WWAN off & Body Worn Power Table 6					
5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm) (+2)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	52	5260	Not Required	17.50	98.28
		56	5280		17.50	
		60	5300		17.50	
		64	5320		17.50	
	802.11n-HT20 MCS0	52	5260		17.50	98.16
		56	5280		17.50	
		60	5300		17.50	
		64	5320		17.50	
	802.11n-HT40 MCS0	54	5270		17.00	96.32
		62	5310		16.63	
	802.11ac-VHT20 MCS0	52	5260		17.50	98.16
		56	5280		17.50	
		60	5300		17.50	
		64	5320		17.50	
	802.11ac-VHT40 MCS0	54	5270		17.50	96.32
		62	5310		17.00	
	802.11ac-VHT80 MCS0	58	5290		14.50	93.35

5GHz WLAN MIMO	WWAN off & Body Worn Power Table 6						
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm) +2	Tune-Up Limit	Duty Cycle	
	802.11a 6Mbps	100	5500	Not Required	17.50	98.28	
		116	5580		17.50		
		124	5620		17.50		
		132	5660		17.50		
		140	5700		17.50		
	802.11n-HT20 MCS0	100	5500		17.50	98.16	
		116	5580		17.50		
		124	5620		17.50		
		132	5660		17.50		
		140	5700		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	
		134	5670		15.72	17.50	
	802.11ac-VHT20 MCS0	100	5500		17.50	98.16	
		116	5580		17.50		
		124	5620		17.50		
		132	5660		17.50		
		140	5700		17.50		
	802.11ac-VHT40 MCS0	102	5510		Not Required	17.50	96.32
		110	5550	17.50			
126		5630	17.50				
134		5670	17.50				
802.11ac-VHT80 MCS0	106	5530	15.03	15.50	93.35		
	122	5610	16.28	17.50			

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/ Modulati on	Frequenc y (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measure d 1g SAR (W/kg)	Auto- Tune	Default (State 123)	Average Value of Time Sweep (W/kg)															
											0	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135
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
Mode	Service/ Modulati on	Frequenc y (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measure d 1g SAR (W/kg)	Auto- Tune	Default (State 81)	Average Value of Time Sweep (W/kg)															
											1	10	19	28	37	46	55	64	73	82	91	100	109	118	127	136
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
Mode	Service/ Modulati on	Frequenc y (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measure d 1g SAR (W/kg)	Auto- Tune	Default (State 33)	Average Value of Time Sweep (W/kg)															
											2	11	20	29	38	47	56	65	74	83	92	101	110	119	128	137
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
Mode	Service/ Modulati on	Frequenc y (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measure d 1g SAR (W/kg)	Auto- Tune	Default (State 14)	Average Value of Time Sweep (W/kg)															
											3	12	21	30	39	48	57	66	75	84	93	102	111	120	129	138
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
Mode	Service/ Modulati on	Frequenc y (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measure d 1g SAR (W/kg)	Auto- Tune	Default (State 33)	Average Value of Time Sweep (W/kg)															
											4	13	22	31	40	49	58	67	76	85	94	103	112	121	130	139
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
Mode	Service/ Modulati on	Frequenc y (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measure d 1g SAR (W/kg)	Auto- Tune	Default (State 33)	Average Value of Time Sweep (W/kg)															
											5	14	23	32	41	50	59	68	77	86	95	104	113	122	131	140
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
Mode	Service/ Modulati on	Frequenc y (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measure d 1g SAR (W/kg)	Auto- Tune	Default (State 81)	Average Value of Time Sweep (W/kg)															
											6	15	24	33	42	51	60	69	78	87	96	105	114	123	132	141
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
Mode	Service/ Modulati on	Frequenc y (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measure d 1g SAR (W/kg)	Auto- Tune	Default (State 33)	Average Value of Time Sweep (W/kg)															
											7	16	25	34	43	52	61	70	79	88	97	106	115	124	133	142
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	0.007	0.017	0.017	0.007	0.007	0.055	0.036	0.026	0.055
Mode	Service/ Modulati on	Frequenc y (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measure d 1g SAR (W/kg)	Auto- Tune	Default (State 14)	Average Value of Time Sweep (W/kg)															
											8	17	26	35	44	53	62	71	80	89	98	107	116	125	134	143
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	RMCI2.2K	1907.6	9538	N/A	N/A	Bottom Side	5mm	0.964	1.280	0.827	0.951	0.894	1.084	1.018	0.113	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)																
									Auto-Tune (State 08)	1	10	19	28	37	46	55	64	73	82	91	100	109	118	127	136
WCDMA B4	RMCI2.2K	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)																
									Auto-Tune (State 31)	2	11	20	29	38	47	56	65	74	83	92	101	110	119	128	137
WCDMA B5	RMCI2.2K	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)																
									Auto-Tune (State 109)	3	12	21	30	39	48	57	66	75	84	93	102	111	120	129	138
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)																
									Auto-Tune (State 72)	4	13	22	31	40	49	58	67	76	85	94	103	112	121	130	139
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)																
									Auto-Tune (State 36)	5	14	23	32	41	50	59	68	77	86	95	104	113	122	131	140
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)																
									Auto-Tune (State 14)	6	15	24	33	42	51	60	69	78	87	96	105	114	123	132	141
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)																
									Auto-Tune (State 72)	7	16	25	34	43	52	61	70	79	88	97	106	115	124	133	142
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)																
									Auto-Tune (State 72)	8	17	26	35	44	53	62	71	80	89	98	107	116	125	134	143
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 1g 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	0.103	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	0.170	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		
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	1.649	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	0.458	1.230	0.554	0.763	1.068	1.849	1.592	0.858	1.049	0.097	0.144	0.658	1.173	0.592	0.163	1.792	1.744	1.430	0.125	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	0.163	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		
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		
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	0.894	0.351	0.265
									125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143		
									1.398	1.208	0.646	1.144	1.246	1.332	0.894	1.351	0.551	0.989	0.808	1.294	0.915	0.313	0.484	1.332	1.189	0.646	0.989		
LTE Band 7	QPSK	2535	21100	1	0	Front	5mm	0.816	1.530	0.507	0.288	0.897	1.183	1.088	0.468	0.859	1.011	0.211	1.059	0.297	0.630	0.926	0.459	1.345	1.192	1.173	0.764	0.545	1.288
									20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
									1.421	1.240	0.268	1.278	1.154	1.468	1.221	0.611	0.564	0.583	1.259	1.002	1.121	0.202	1.173	0.192	0.659	1.449	1.021	1.097	0.316
									41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
									0.373	0.126	0.649	1.068	0.707	1.145	1.211	1.154	0.916	1.049	0.630	0.649	1.088	0.440	0.621	0.516	0.107	0.316	0.488	0.878	0.307
									62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82
									0.630	0.488	1.421	0.097	1.354	0.773	1.430	0.983	0.783	1.440	1.480	0.916	0.259	1.345	0.726	1.097	0.526	0.545	0.192	0.830	0.211
									83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	



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	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	0.180	1.085	0.857	1.630	0.114	0.152	0.933	1.438	1.542
									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 1g 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	1.177	0.291	0.129	0.158	1.529	0.824	1.253	0.348	1.129
									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 1g 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	1.123	0.238	0.580	0.780	1.180	0.818	0.228	0.876	0.638
									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		