



Band 26 for FCC									
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				26765	26865	26965			
Frequency (MHz)				811.5	811.5	811.5			
15	QPSK	1	0	22.38	22.38	22.34			
15	QPSK	1	37	22.26	22.27	22.26	23.5	0	
15	QPSK	1	74	22.27	22.23	22.24			
15	QPSK	36	0	22.48	22.48	22.41			
15	QPSK	36	20	22.46	22.41	22.34	23.5	0	
15	QPSK	36	39	22.35	22.29	22.38			
15	QPSK	75	0	22.38	22.45	22.24			
15	16QAM	1	0	22.51	22.43	22.47			
15	16QAM	1	37	22.39	22.39	22.43	23.5	0	
15	16QAM	1	74	22.39	22.42	22.27			
15	16QAM	36	0	22.47	22.43	22.30			
15	16QAM	36	20	22.41	22.43	22.41	23	0.5	
15	16QAM	36	39	22.37	22.42	22.35			
15	16QAM	75	0	22.45	22.43	22.40			
15	64QAM	1	0	22.09	22.36	22.38			
15	64QAM	1	37	22.22	22.55	22.55	23	0.5	
15	64QAM	1	74	22.37	22.38	22.27			
15	64QAM	36	0	21.37	21.54	21.47			
15	64QAM	36	20	21.36	21.41	21.49	22	1.5	
15	64QAM	36	39	21.36	21.42	21.28			
15	64QAM	75	0	21.45	21.40	21.38			
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	22.21	22.15	22.21	23.5	0	
10	QPSK	1	25	22.18	22.10	22.06			
10	QPSK	1	49	22.13	22.09	21.87			
10	QPSK	25	0	22.28	22.29	22.27			
10	QPSK	25	12	22.32	22.27	22.22	23.5	0	
10	QPSK	25	25	22.19	22.18	22.24			
10	QPSK	50	0	22.25	22.31	22.10			
10	16QAM	1	0	22.57	22.42	22.43	23.5	0	
10	16QAM	1	25	22.45	22.45	22.29			
10	16QAM	1	49	22.25	22.25	22.17			
10	16QAM	25	0	22.33	22.29	22.16			
10	16QAM	25	12	22.27	22.29	22.27	23	0.5	
10	16QAM	25	25	22.23	22.28	22.21			
10	16QAM	50	0	22.31	22.29	22.26			
10	64QAM	1	0	21.95	22.22	22.22			
10	64QAM	1	25	22.08	22.41	22.41	23	0.5	
10	64QAM	1	49	22.23	22.24	22.13			
10	64QAM	25	0	21.23	21.40	21.33			
10	64QAM	25	12	21.22	21.27	21.26	22	1.5	
10	64QAM	25	25	21.25	21.28	21.14			
10	64QAM	50	0	21.31	21.26	21.24			
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	22.24	22.12	22.23	23.5	0	
5	QPSK	1	12	22.10	22.22	22.13			
5	QPSK	1	24	21.96	21.99	21.92			
5	QPSK	12	0	22.34	22.20	22.13			
5	QPSK	12	7	22.34	22.15	22.13	23.5	0	
5	QPSK	12	13	22.21	22.25	22.06			
5	QPSK	25	0	22.19	22.23	22.01			
5	16QAM	1	0	22.43	22.39	22.50	23.5	0	
5	16QAM	1	12	22.39	22.42	22.52			
5	16QAM	1	24	22.53	22.41	22.51			
5	16QAM	12	0	22.47	22.43	22.30			
5	16QAM	12	7	22.41	22.43	22.41	23	0.5	
5	16QAM	12	13	22.37	22.42	22.35			
5	16QAM	25	0	22.45	22.43	22.40			
5	64QAM	1	0	22.09	22.36	22.36			
5	64QAM	1	12	22.22	22.55	22.55	23	0.5	
5	64QAM	1	24	22.37	22.38	22.27			
5	64QAM	12	0	21.37	21.54	21.47			
5	64QAM	12	7	21.36	21.41	21.40	22	1.5	
5	64QAM	12	13	21.39	21.42	21.28			
5	64QAM	25	0	21.45	21.40	21.38			
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	22.23	22.15	22.04	23.5	0	
3	QPSK	1	8	22.24	22.26	22.03			
3	QPSK	1	14	22.08	22.17	21.94			
3	QPSK	8	0	22.28	22.23	22.05			
3	QPSK	8	4	22.36	22.17	21.99	23.5	0	
3	QPSK	8	7	22.25	22.26	21.88			
3	QPSK	15	0	22.30	22.30	22.02			
3	16QAM	1	0	22.39	22.49	22.30			
3	16QAM	1	8	22.43	22.40	22.43	23.5	0	
3	16QAM	1	14	22.47	22.43	22.10			
3	16QAM	8	0	22.23	22.20	22.05			
3	16QAM	8	4	22.33	22.20	22.09	23	0.5	
3	16QAM	8	7	22.13	22.29	22.10			
3	16QAM	15	0	22.25	22.19	22.07			
3	64QAM	1	0	22.16	22.39	22.34	23	0.5	
3	64QAM	1	8	21.94	22.36	22.31			
3	64QAM	1	14	22.20	22.38	22.22			
3	64QAM	8	0	20.81	21.25	21.16			
3	64QAM	8	4	20.97	21.19	21.10	22	1.5	
3	64QAM	8	7	21.26	21.24	21.09			
3	64QAM	15	0	21.02	21.28	21.23			
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	22.15	22.04	21.83	23.5	0	
1.4	QPSK	1	3	22.17	22.12	21.88			
1.4	QPSK	1	5	22.13	22.07	21.80			
1.4	QPSK	3	0	22.11	22.00	21.94			
1.4	QPSK	3	1	22.15	22.14	21.90			
1.4	QPSK	3	3	22.14	22.01	21.86			
1.4	QPSK	6	0	22.21	22.17	21.94	23.5	0	
1.4	16QAM	1	0	22.54	22.32	22.17			
1.4	16QAM	1	3	22.54	22.53	22.20			
1.4	16QAM	1	5	22.43	22.40	22.21	23.5	0	
1.4	16QAM	3	0	22.25	22.17	22.05			
1.4	16QAM	3	1	22.38	22.23	22.12			
1.4	16QAM	3	3	22.19	22.21	22.06			
1.4	16QAM	6	0	22.36	22.21	22.07	23	0.5	
1.4	64QAM	1	0	22.03	22.36	21.97			
1.4	64QAM	1	3	22.03	22.47	22.03			
1.4	64QAM	1	5	22.00	22.40	22.02	23	0.5	
1.4	64QAM	3	0	22.07	22.22	21.96			
1.4	64QAM	3	1	22.06	22.26	22.01			
1.4	64QAM	3	3	21.92	22.30	21.98			
1.4	64QAM	6	0	21.03	21.16	21.05	22	1.5	

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)				1712	1745	1770			
20	QPSK	1	0	17.87	18.18	18.07			
20	QPSK	1	49	17.72	17.87	17.90	18.5	0	
20	QPSK	1	99	17.82	17.88	17.85			
20	QPSK	50	0	17.68	18.02	17.95			
20	QPSK	50	24	17.78	17.86	17.91	18.5	0	
20	QPSK	50	50	17.76	17.87	17.89			
20	QPSK	100	0	17.71	17.95	17.91			
20	16QAM	1	0	17.85	17.96	18.09			
20	16QAM	1	49	17.88	18.05	18.08	18.5	0	
20	16QAM	1	99	18.01	18.02	17.96			
20	16QAM	50	0	17.74	17.92	17.99			
20	16QAM	50	24	17.81	17.90	17.96	18.5	0	
20	16QAM	50	50	17.76	17.93	17.96			
20	16QAM	100	0	17.77	17.86	17.92			
20	64QAM	1	0	17.85	18.12	18.11			
20	64QAM	1	49	17.93	17.98	17.99	18.5	0	
20	64QAM	1	99	18.10	17.87	17.86			
20	64QAM	50	0	17.72	17.93	17.96			
20	64QAM	50	24	17.78	17.88	17.93	18.5	0	
20	64QAM	50	50	17.75	17.90	17.92			
20	64QAM	100	0	17.79	17.87	17.94			
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	17.73	17.89	18.01			
15	QPSK	1	37	17.62	17.83	17.86	18.5	0	
15	QPSK	1	74	17.67	17.86	17.85			
15	QPSK	36	0	17.58	17.79	17.89			
15	QPSK	36	20	17.59	17.75	17.84	18.5	0	
15	QPSK	36	39	17.57	17.81	17.85			
15	QPSK	75	0	17.60	17.79	17.85			
15	16QAM	1	0	17.89	18.04	18.16			
15	16QAM	1	25	17.76	17.90	18.03	18.5	0	
15	16QAM	1	74	17.83	17.88	17.90			
15	16QAM	36	0	17.63	17.84	17.87			
15	16QAM	36	20	17.69	17.80	17.80	18.5	0	
15	16QAM	36	39	17.68	17.89	17.84			
15	16QAM	75	0	17.73	17.82	17.85			
15	64QAM	1	0	17.82	17.97	18.09			
15	64QAM	1	37	17.67	17.91	17.79	18.5	0	
15	64QAM	1	74						



Band 38										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2590	2595	2610				
20	QPSK	1	0	18.90	18.75	18.91	20	0		
20	QPSK	1	49	18.90	18.88	18.53				
20	QPSK	1	99	18.59	18.70	18.52				
20	QPSK	50	0	18.78	18.66	18.67				
20	QPSK	50	24	18.82	18.74	18.72				
20	QPSK	50	50	18.76	18.68	18.84				
20	QPSK	100	0	18.78	18.77	18.61				
20	16QAM	1	0	18.69	18.66	18.68				
20	16QAM	1	49	18.68	18.54	18.73				
20	16QAM	1	99	18.71	18.68	18.58				
20	16QAM	50	0	18.70	18.60	18.60				
20	16QAM	50	24	18.73	18.73	18.64				
20	16QAM	50	50	18.78	18.58	18.71				
20	16QAM	100	0	18.81	18.65	18.67				
20	64QAM	1	0	18.55	18.39	18.52				
20	64QAM	1	49	18.50	18.42	18.40				
20	64QAM	1	99	18.40	18.51	18.31				
20	64QAM	50	0	18.55	18.57	18.64				
20	64QAM	50	24	18.73	18.73	18.64				
20	64QAM	50	50	18.53	18.72	18.69				
20	64QAM	100	0	18.82	18.80	18.57				
Channel				37825	38000	38175	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	18.86	18.82	18.70	20	0		
15	QPSK	1	37	18.80	18.85	18.82				
15	QPSK	1	74	18.70	18.80	18.50				
15	QPSK	36	0	18.86	18.65	18.58				
15	QPSK	36	20	18.73	18.76	18.70				
15	QPSK	36	39	18.71	18.68	18.70				
15	QPSK	75	0	18.73	18.60	18.60				
15	16QAM	1	0	18.80	18.50	18.74				
15	16QAM	1	37	18.71	18.47	18.47				
15	16QAM	1	74	18.66	18.63	18.57				
15	16QAM	36	0	18.73	18.52	18.55				
15	16QAM	36	20	18.70	18.59	18.51				
15	16QAM	36	39	18.72	18.60	18.67				
15	16QAM	75	0	18.79	18.71	18.67				
15	64QAM	1	0	18.69	18.46	18.50				
15	64QAM	1	37	18.69	18.39	18.52				
15	64QAM	1	74	18.51	18.51	18.43				
15	64QAM	36	0	18.76	18.53	18.57				
15	64QAM	36	20	18.73	18.49	18.66				
15	64QAM	36	39	18.82	18.59	18.62				
15	64QAM	75	0	18.83	18.64	18.60				
Channel				37800	38000	38200	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	18.89	18.60	18.50	20	0		
10	QPSK	1	25	18.80	18.41	18.53				
10	QPSK	1	49	18.53	18.48	18.41				
10	QPSK	25	0	18.47	18.28	18.36				
10	QPSK	25	12	18.52	18.68	18.36				
10	QPSK	25	25	18.52	18.77	18.32				
10	QPSK	50	0	18.52	18.66	18.34				
10	16QAM	1	0	18.60	18.54	18.40				
10	16QAM	1	25	18.57	18.68	18.35				
10	16QAM	1	49	18.48	18.51	18.46				
10	16QAM	25	0	18.51	18.29	18.32				
10	16QAM	25	12	18.41	18.21	18.34				
10	16QAM	25	25	18.40	18.31	18.40				
10	16QAM	50	0	18.53	18.51	18.35				
10	64QAM	1	0	18.49	18.52	18.36				
10	64QAM	1	25	18.35	18.58	18.33				
10	64QAM	1	49	18.45	18.52	18.30				
10	64QAM	25	0	18.55	18.48	18.13				
10	64QAM	25	12	18.50	18.60	18.27				
10	64QAM	25	25	18.51	18.36	18.21				
10	64QAM	50	0	18.50	18.60	18.27				
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				2572.5	2595	2617.5				
5	QPSK	1	0	18.50	18.40	18.46	20	0		
5	QPSK	1	12	18.42	18.45	18.37				
5	QPSK	1	24	18.52	18.39	18.43				
5	QPSK	12	0	18.56	18.47	18.52				
5	QPSK	12	7	18.60	18.49	18.52				
5	QPSK	12	15	18.59	18.48	18.50				
5	QPSK	25	0	18.52	18.43	18.49				
5	16QAM	1	0	18.48	18.54	18.53				
5	16QAM	1	12	18.60	18.51	18.42				
5	16QAM	1	24	18.64	18.47	18.52				
5	16QAM	12	0	18.50	18.44	18.50				
5	16QAM	12	7	18.51	18.50	18.53				
5	16QAM	12	15	18.52	18.42	18.48				
5	16QAM	25	0	18.58	18.51	18.51				
5	64QAM	1	0	18.41	18.24	18.29				
5	64QAM	1	12	18.24	18.26	18.21				
5	64QAM	1	24	18.35	18.30	18.31				
5	64QAM	12	0	18.51	18.43	18.47				
5	64QAM	12	7	18.56	18.48	18.53				
5	64QAM	12	15	18.51	18.47	18.50				
5	64QAM	25	0	18.48	18.44	18.46				

Band 41/Band 41(HPUe)										
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				37750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2638.5	2680		
20	QPSK	1	0	18.90	18.98	19.25	18.81	18.81	20	0
20	QPSK	1	49	18.90	18.92	18.98	18.91	19.19		
20	QPSK	1	99	18.89	18.96	18.91	18.79	19.17		
20	QPSK	50	0	18.89	18.95	19.21	18.96	19.12		
20	QPSK	50	24	18.92	19.00	18.97	18.99	19.14		
20	QPSK	50	50	18.90	18.89	18.96	18.93	19.19		
20	QPSK	100	0	18.91	18.86	19.16	18.76	19.11		
20	16QAM	1	0	18.98	18.84	18.95	18.86	18.96		
20	16QAM	1	49	18.94	18.93	18.89	18.97	19.14		
20	16QAM	1	99	18.93	18.93	18.91	18.87	19.12		
20	16QAM	50	0	18.95	18.93	18.96	18.96	19.20		
20	16QAM	50	24	18.94	19.02	18.92	19.05	19.17		
20	16QAM	50	50	18.93	18.97	18.98	18.92	19.12		
20	16QAM	100	0	18.94	18.95	18.92	18.92	19.19		
20	64QAM	1	0	18.81	18.75	18.79	18.81	18.79		
20	64QAM	1	49	18.79	18.75	18.76	18.96	19.14		
20	64QAM	1	99	18.75	18.85	18.75	18.74	19.19		
20	64QAM	50	0	18.93	18.91	18.89	18.89	19.04		
20	64QAM	50	24	18.94	18.94	18.91	18.93	19.21		
20	64QAM	50	50	18.94	18.97	18.96	18.91	19.18		
20	64QAM	100	0	18.97	18.95	18.93	18.97	19.21		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18.66	18.67	18.65	18.67	18.84	20	0
15	QPSK	1	37	18.82	18.71	18.66	18.82	19.13		
15	QPSK	1	74	18.79	18.79	18.67	18.65	19.02		
15	QPSK	36	0	18.89	18.91	18.89	18.83	19.16		
15	QPSK	36	20	18.90	18.91	18.88	18.91	19.12		
15	QPSK	36	39	18.89	18.89	18.87	18.94	19.12		
15	QPSK	75	0	18.99	19.03	18.86	18.83	19.21		
15	16QAM	1	0	18.96	19.01	19.06	19.06	19.17		
15	16QAM	1	37	18.99	19.02	18.99	19.07	19.16		
15	16QAM	1	74	18.99	19.06	18.99	19			



Reduced Power Mode for Hotspot On

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	24.25	24.33	24.26	25.00	15.25	15.33	15.26	16.00	0.12
GPRS 1 Tx slots	24.21	24.31	24.25	25.00	15.21	15.31	15.25	16.00	
GPRS 2 Tx slots	21.54	21.66	21.47	22.50	15.54	15.66	15.47	16.50	0.19
GPRS 3 Tx slots	20.38	20.55	20.38	21.00	16.10	16.29	16.12	16.74	0.19
GPRS 4 Tx slots	18.51	18.76	18.57	19.00	15.51	15.76	15.57	16.00	0.25
EDGE 1 Tx slot	19.67	19.62	19.59	20.50	10.67	10.62	10.59	11.50	0.08
EDGE 2 Tx slots	19.24	18.19	18.29	18.50	12.24	12.19	12.29	12.50	0.10
EDGE 3 Tx slots	17.26	17.18	17.03	18.00	13.00	12.92	12.77	13.74	0.23
EDGE 4 Tx slots	15.03	15.34	15.10	15.50	12.03	12.34	12.10	12.50	0.31

Band TX Channel	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
	5262	9490	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9662	9890	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99 RVR 12.2Kbps	15.43	15.41	15.40	16.00	15.38	15.43	15.30	16.50	21.20	21.19	21.02	22.50
3GPP Rel 99 RVR 12.2Kbps	15.40	15.48	15.41	16.00	15.39	15.44	15.31	16.50	21.22	21.24	21.07	22.50
3GPP Rel 6 HSDPA Subtest-1	14.82	14.83	14.75	15.00	14.22	14.21	14.32	15.50	20.15	20.10	19.90	21.50
3GPP Rel 6 HSDPA Subtest-2	14.82	14.82	14.76	15.00	14.32	14.35	14.17	15.50	20.20	20.14	19.99	21.50
3GPP Rel 6 HSDPA Subtest-3	14.34	14.33	14.27	14.50	14.12	14.21	13.99	15.00	19.64	19.59	19.48	21.00
3GPP Rel 6 HSDPA Subtest-4	14.34	14.32	14.26	14.50	14.07	14.12	14.06	15.00	19.65	19.63	19.48	21.00
3GPP Rel 6 DCHSDPA Subtest-1	14.81	14.82	14.74	15.00	14.21	14.20	14.31	15.50	20.14	20.08	19.88	21.50
3GPP Rel 6 DCHSDPA Subtest-2	14.80	14.81	14.75	15.00	14.10	14.11	14.16	15.50	20.17	20.12	19.98	21.50
3GPP Rel 6 DCHSDPA Subtest-3	14.33	14.32	14.26	14.50	14.11	14.20	13.98	15.00	19.63	19.57	19.46	21.00
3GPP Rel 6 DCHSDPA Subtest-4	14.32	14.31	14.25	14.50	14.06	14.11	13.99	15.00	19.63	19.59	19.47	21.00
3GPP Rel 6 HSUPA Subtest-1	14.56	14.37	14.80	15.00	14.61	14.92	14.33	15.50	20.17	20.15	19.96	21.50
3GPP Rel 6 HSUPA Subtest-2	12.84	12.87	12.79	13.00	12.59	12.63	12.27	13.50	18.25	18.14	17.98	19.50
3GPP Rel 6 HSUPA Subtest-3	13.82	13.81	13.79	14.00	13.64	13.57	13.30	14.50	19.16	19.13	18.94	20.50
3GPP Rel 6 HSUPA Subtest-4	12.84	12.82	12.81	13.00	12.56	12.67	12.25	13.50	18.22	18.12	17.95	19.50
3GPP Rel 6 HSUPA Subtest-5	14.80	14.80	14.80	15.00	14.59	14.42	14.32	15.50	20.21	20.14	19.87	21.50

Band TX Channel	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	25	600	1175		476	580	684	
Frequency (MHz)	1131.25	1850	1920.75		317.9	251.3	223.1	
RC1 S055	15.55	15.61	15.65	16.50	23.34	23.35	23.33	24.00
RC3 S055	15.56	15.59	15.66	16.50	23.36	23.39	23.36	24.00
RC3 S032 (F+SCH)	15.56	15.59	15.53	16.50	23.37	23.39	23.37	24.00
RC3 S032 (F+SCH)	15.54	15.58	15.48	16.50	23.37	23.37	23.35	24.00
RTAP 153.8Kbps	15.51	15.63	15.59	16.50	23.45	23.49	23.41	24.00
RTAP 409.8Ks	15.50	15.61	15.63	16.50	23.47	23.46	23.44	24.00



Band 2										
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										
Frequency (MHz)										
20	QPSK	1	0	14.60	15.00	14.60				
20	QPSK	1	49	14.64	14.60	14.59	16	0		
20	QPSK	1	99	14.60	14.66	14.56				
20	QPSK	50	0	14.86	14.94	14.74				
20	QPSK	50	24	14.88	14.68	14.77	16	0		
20	QPSK	50	50	14.77	14.78	14.84				
20	QPSK	100	0	14.86	14.93	14.78				
20	16QAM	1	0	14.71	14.73	14.85				
20	16QAM	1	49	14.82	14.80	14.76	16	0		
20	16QAM	1	99	14.75	14.82	14.77				
20	16QAM	50	0	14.73	14.65	14.83				
20	16QAM	50	24	14.85	14.75	14.66	16	0		
20	16QAM	50	50	14.80	14.77	14.85				
20	16QAM	100	0	14.81	14.73	14.77				
20	64QAM	1	0	14.91	14.79	14.74				
20	64QAM	1	49	14.91	14.63	14.69	16	0		
20	64QAM	1	99	14.69	14.81	14.83				
20	64QAM	50	0	14.45	14.48	14.35				
20	64QAM	50	24	14.68	14.42	14.40	16	0		
20	64QAM	50	50	14.51	14.52	14.30				
20	64QAM	100	0	14.62	14.36	14.24				
Channel										
Frequency (MHz)										
15	QPSK	1	0	14.74	14.66	14.62	16	0		
15	QPSK	1	37	14.76	14.61	14.59				
15	QPSK	1	74	14.74	14.60	14.62				
15	QPSK	36	0	14.78	14.66	14.77				
15	QPSK	36	20	14.94	14.80	14.82	16	0		
15	QPSK	36	39	14.82	14.73	14.93				
15	QPSK	75	0	14.87	14.72	14.85				
15	16QAM	1	0	14.69	14.75	14.61	16	0		
15	16QAM	1	37	14.67	14.63	14.64				
15	16QAM	1	74	14.74	14.73	14.68				
15	16QAM	36	0	14.81	14.68	14.71				
15	16QAM	36	20	14.87	14.68	14.83	16	0		
15	16QAM	36	39	14.77	14.73	14.82				
15	16QAM	75	0	14.92	14.64	14.83				
15	64QAM	1	0	14.84	14.80	14.69	16	0		
15	64QAM	1	37	14.91	14.89	14.62				
15	64QAM	1	74	14.88	14.73	14.75				
15	64QAM	36	0	14.54	14.40	14.36				
15	64QAM	36	20	14.73	14.40	14.42	16	0		
15	64QAM	36	39	14.52	14.61	14.50				
15	64QAM	75	0	14.61	14.37	14.20				
Channel										
Frequency (MHz)										
10	QPSK	1	0	14.94	14.87	14.73	16	0		
10	QPSK	1	25	14.50	14.59	14.91				
10	QPSK	1	49	14.76	14.63	14.67				
10	QPSK	25	0	14.56	14.35	14.55				
10	QPSK	25	12	14.58	14.40	14.56	16	0		
10	QPSK	25	25	14.49	14.49	14.54				
10	QPSK	50	0	14.58	14.53	14.63				
10	16QAM	1	0	14.73	14.75	14.67	16	0		
10	16QAM	1	25	14.71	14.71	14.61				
10	16QAM	1	49	14.67	14.82	14.85				
10	16QAM	25	0	14.62	14.45	14.38				
10	16QAM	25	12	14.68	14.46	14.47	16	0		
10	16QAM	25	25	14.62	14.59	14.66				
10	16QAM	50	0	14.64	14.52	14.56				
10	64QAM	1	0	14.71	14.44	14.28	16	0		
10	64QAM	1	25	14.39	14.72	14.58				
10	64QAM	1	49	14.77	14.48	14.45				
10	64QAM	25	0	14.53	14.29	14.18	16	0		
10	64QAM	25	12	14.48	14.23	14.33				
10	64QAM	25	25	14.32	14.41	14.32				
10	64QAM	50	0	14.47	14.33	14.25				
Channel										
Frequency (MHz)										
5	QPSK	1	0	14.47	14.83	14.42	16	0		
5	QPSK	1	12	14.50	14.38	14.51				
5	QPSK	1	24	14.46	14.40	14.60				
5	QPSK	12	0	14.47	14.37	14.44	16	0		
5	QPSK	12	7	14.58	14.44	14.62				
5	QPSK	12	13	14.61	14.33	14.52				
5	QPSK	25	0	14.56	14.40	14.57				
5	16QAM	1	0	14.82	14.72	14.81	16	0		
5	16QAM	1	12	14.83	14.65	14.73				
5	16QAM	1	24	14.95	14.64	14.74				
5	16QAM	12	0	14.58	14.44	14.55	16	0		
5	16QAM	12	7	14.55	14.80	14.62				
5	16QAM	12	13	14.66	14.51	14.49				
5	16QAM	25	0	14.51	14.44	14.64				
5	64QAM	1	0	14.65	14.46	14.60	16	0		
5	64QAM	1	12	14.51	14.33	14.54				
5	64QAM	1	24	14.62	14.55	14.68				
5	64QAM	12	0	14.44	14.25	14.30	16	0		
5	64QAM	12	7	14.49	14.42	14.35				
5	64QAM	12	13	14.48	14.28	14.31				
5	64QAM	25	0	14.38	14.28	14.30				
Channel										
Frequency (MHz)										
3	QPSK	1	0	14.47	14.70	14.42	16	0		
3	QPSK	1	8	14.44	14.40	14.46				
3	QPSK	1	14	14.57	14.30	14.56				
3	QPSK	8	0	14.45	14.27	14.46	16	0		
3	QPSK	8	4	14.59	14.44	14.53				
3	QPSK	8	7	14.61	14.47	14.51				
3	QPSK	15	0	14.49	14.40	14.51				
3	16QAM	1	0	14.86	14.64	14.79	16	0		
3	16QAM	1	8	14.88	14.79	14.71				
3	16QAM	1	14	14.76	14.73	14.85				
3	16QAM	8	0	14.65	14.47	14.53	16	0		
3	16QAM	8	4	14.61	14.51	14.63				
3	16QAM	8	7	14.69	14.56	14.60				
3	16QAM	15	0	14.55	14.26	14.61				
3	64QAM	1	0	14.75	14.44	14.61	16	0		
3	64QAM	1	8	14.84	14.73	14.72				
3	64QAM	1	14	14.75	14.64	14.67				
3	64QAM	8	0	14.48	14.23	14.34	16	0		
3	64QAM	8	4	14.44	14.30	14.39				
3	64QAM	8	7	14.42	14.35	14.25				
3	64QAM	15	0	14.38	14.15	14.32				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	14.74	14.75	14.97	16	0		
1.4	QPSK	1	3	14.84	14.61	14.58				
1.4	QPSK	1	5	14.78	14.81	14.61				
1.4	QPSK	3	0	14.43	14.36	14.63				
1.4	QPSK	3	1	14.45	14.42	14.38				
1.4	QPSK	3	3	14.49	14.33	14.44	16	0		
1.4	QPSK	6	0	14.40	14.33	14.50				
1.4	16QAM	1	0	14.58	14.73	14.81				
1.4	16QAM	1	3	14.85	14.83	14.65	16	0		
1.4	16QAM	1	5	14.72	14.65	14.70				
1.4	16QAM	3	0	14.60	14.48	14.52				
1.4	16QAM	3	1	14.20	14.65	14.59				
1.4	16QAM	3	3	14.58	14.31	14.60	16	0		
1.4	16QAM	3	0	14.70	14.52	14.57				
1.4	64QAM	1	0	14.61	14.58	14.67				
1.4	64QAM	1	3	14.71	14.55	14.64	16	0		
1.4	64QAM	1	5	14.59	14.56	14.58				
1.4	64QAM	3	0	14.51	14.50	14.50				
1.4	64QAM	3	1	14.60	14.50	14.56				
1.4	64QAM	3	3	14.50	14.55	14.54				
1.4	64QAM	6	0	14.13	14.15	14.19	16	0		

Band 4										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq				



Band 7										
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										
Frequency (MHz)										
20	QPSK	1	0	13.86	14.03	13.84	14.5	0		
20	QPSK	1	49	14.00	14.04	13.75				
20	QPSK	1	99	14.01	13.86	13.77				
20	QPSK	50	0	13.70	14.03	13.91	14.5	0		
20	QPSK	50	24	13.80	13.80	13.96				
20	QPSK	50	50	13.84	13.84	13.99				
20	QPSK	100	0	13.78	13.96	13.92	14.5	0		
20	16QAM	1	0	13.90	13.92	14.02				
20	16QAM	1	49	13.91	13.94	14.01				
20	16QAM	1	99	13.97	13.99	14.02	14.5	0		
20	16QAM	50	0	13.73	13.72	13.90				
20	16QAM	50	24	13.81	13.82	13.98				
20	16QAM	50	50	13.80	13.84	14.05	14.5	0		
20	16QAM	100	0	13.78	13.79	13.93				
20	64QAM	1	0	13.75	13.78	13.86				
20	64QAM	1	49	13.76	13.78	13.97	14.5	0		
20	64QAM	1	99	13.79	13.83	13.99				
20	64QAM	50	0	13.69	13.72	13.93				
20	64QAM	50	24	13.78	13.81	13.98	14.5	0		
20	64QAM	50	50	13.80	13.84	14.04				
20	64QAM	100	0	13.76	13.79	13.94				
Channel										
Frequency (MHz)										
15	QPSK	1	0	13.61	13.83	13.75	14.5	0		
15	QPSK	1	37	13.58	13.64	13.80				
15	QPSK	1	74	13.65	13.71	13.83				
15	QPSK	36	0	13.71	13.75	13.94	14.5	0		
15	QPSK	36	20	13.80	13.81	14.03				
15	QPSK	36	39	13.79	13.85	14.03				
15	QPSK	75	0	13.81	13.84	13.92	14.5	0		
15	16QAM	1	0	13.91	13.93	14.09				
15	16QAM	1	37	13.92	13.93	14.01				
15	16QAM	1	74	13.93	14.01	13.98	14.5	0		
15	16QAM	36	0	13.72	13.72	13.98				
15	16QAM	36	20	13.81	13.81	14.02				
15	16QAM	36	39	13.80	13.84	14.06	14.5	0		
15	16QAM	75	0	13.79	13.80	13.97				
15	64QAM	1	0	13.80	13.78	13.90				
15	64QAM	1	37	13.78	13.78	14.02	14.5	0		
15	64QAM	1	74	13.79	13.88	14.05				
15	64QAM	36	0	13.70	13.70	13.98				
15	64QAM	36	20	13.80	13.80	14.03	14.5	0		
15	64QAM	36	39	13.79	13.85	14.06				
15	64QAM	75	0	13.83	13.80	13.96				
Channel										
Frequency (MHz)										
10	QPSK	1	0	13.50	13.52	13.71	14.5	0		
10	QPSK	1	25	13.49	13.44	13.70				
10	QPSK	1	49	13.51	13.52	13.69				
10	QPSK	25	0	13.64	13.60	13.79	14.5	0		
10	QPSK	25	12	13.66	13.67	13.83				
10	QPSK	25	25	13.62	13.67	13.87				
10	QPSK	50	0	13.86	13.83	13.97	14.5	0		
10	16QAM	1	0	13.87	13.86	14.08				
10	16QAM	1	25	13.83	13.88	14.07				
10	16QAM	1	49	13.87	13.93	14.10	14.5	0		
10	16QAM	25	0	13.82	13.85	13.81				
10	16QAM	25	12	13.84	13.88	13.83				
10	16QAM	25	25	13.84	13.88	13.89	14.5	0		
10	16QAM	50	0	13.82	13.84	13.78				
10	64QAM	1	0	13.84	13.91	14.09				
10	64QAM	1	25	13.81	13.91	14.08	14.5	0		
10	64QAM	1	49	13.87	13.93	13.99				
10	64QAM	25	0	13.84	13.83	13.80				
10	64QAM	25	12	13.66	13.67	13.83	14.5	0		
10	64QAM	25	25	13.63	13.68	13.86				
10	64QAM	50	0	13.80	13.65	13.78				
Channel										
Frequency (MHz)										
5	QPSK	1	0	13.51	13.47	13.75	14.5	0		
5	QPSK	1	12	13.58	13.58	13.75				
5	QPSK	1	24	13.53	13.58	13.75				
5	QPSK	12	0	13.61	13.51	13.78	14.5	0		
5	QPSK	12	7	13.62	13.67	13.84				
5	QPSK	12	13	13.63	13.63	13.85				
5	QPSK	25	0	13.60	13.62	13.82	14.5	0		
5	16QAM	1	0	13.82	13.84	13.86				
5	16QAM	1	12	13.86	13.92	14.09				
5	16QAM	1	24	13.86	13.96	13.96	14.5	0		
5	16QAM	12	0	13.57	13.61	13.84				
5	16QAM	12	7	13.68	13.88	13.89				
5	16QAM	12	13	13.65	13.70	13.89	14.5	0		
5	16QAM	25	0	13.61	13.65	13.80				
5	64QAM	1	0	13.75	13.69	13.98				
5	64QAM	1	12	13.74	13.81	13.96	14.5	0		
5	64QAM	1	24	13.75	13.79	13.97				
5	64QAM	12	0	13.55	13.59	13.82				
5	64QAM	12	7	13.65	13.67	13.88	14.5	0		
5	64QAM	12	13	13.64	13.69	13.88				
5	64QAM	25	0	13.61	13.63	13.82				

Band 13										
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										
Frequency (MHz)										
10	QPSK	1	0	22.37	22.34	22.34	23.5	0		
10	QPSK	1	25	22.34	22.34	22.34				
10	QPSK	1	49	22.33	22.33	22.33				
10	QPSK	25	0	22.10	22.10	22.10	23.5	0		
10	QPSK	25	12	22.05	22.05	22.05				
10	QPSK	25	25	22.01	22.01	22.01				
10	QPSK	50	0	22.08	22.08	22.08	23.5	0		
10	16QAM	1	0	22.41	22.41	22.41				
10	16QAM	1	25	22.33	22.33	22.33				
10	16QAM	1	49	22.24	22.24	22.24	23.5	0		
10	16QAM	25	0	21.80	21.80	21.80				
10	16QAM	25	12	21.77	21.77	21.77				
10	16QAM	25	25	21.72	21.72	21.72	22.5	1		
10	16QAM	50	0	21.77	21.77	21.77				
10	64QAM	1	0	21.56	21.56	21.56				
10	64QAM	1	25	21.55	21.55	21.55	22.5	1		
10	64QAM	1	49	21.45	21.45	21.45				
10	64QAM	25	0	20.67	20.67	20.67				
10	64QAM	25	12	20.66	20.66	20.66	21.5	2		
10	64QAM	25	25	20.76	20.76	20.76				
10	64QAM	50	0	20.50	20.50	20.50				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.16	22.22	22.23	23.5	0		
5	QPSK	1	12	22.28	22.30	22.30				
5	QPSK	1	24	22.27	22.31	22.23				
5	QPSK	12	0	22.15	22.05	22.30	23.5	0		
5	QPSK	12	7	22.19	22.31	22.38				
5	QPSK	12	13	22.14	22.28	22.36				
5	QPSK	25	0	22.45	22.22	22.39	23.5	0		
5	16QAM	1	0	22.45	22.45	22.33				
5	16QAM	1	12	22.45	22.31	22.49				
5	16QAM	1	24	22.27	22.05	22.34	22.5	1		
5	16QAM	12	0	21.54	21.67	21.87				
5	16QAM	12	7	21.44	21.66	21.56				
5	16QAM	12	13	21.43	21.55	21.89	22.5	1		
5	16QAM	25	0	22.00	21.89	21.98				
5	64QAM	1	0	21.03	21.01	21.01				
5	64QAM	1	12	21.23	21.34	21.32	22.5	1		
5	64QAM	1	24	21.30	21.33	21.02				
5	64QAM	12	0	20.31	20.66	20.56				
5	64QAM	12	7	20.69	20.76	20.55	21.5	2		
5	64QAM	12	13	20.63	20.75	20.34				
5	64QAM	25	0	20.41	20.66	20.43				

Band 25										
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										
Frequency (MHz)										
20	QPSK	1	0	14.83	14.95	15.00	16	0		
20	QPSK	1	49	14.84	14.95	15.07				
20	QPSK	1	99	14.82	14.99	14.91				
20	QPSK	50	0	15.03	15.08	14.89	16	0		
20	QPSK	50	24	15.02	15.06	14.91				
20	QPSK</									



Band 26 for FCC									
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				26765	26865	26965			
Frequency (MHz)				819	831.5	844			
15	QPSK	1	0	22.38	22.38	22.34	23.5	0	
15	QPSK	1	37	22.28	22.27	22.24			
15	QPSK	1	74	22.27	22.23	22.24			
15	QPSK	36	0	22.46	22.48	22.41	23.5	0	
15	QPSK	36	20	22.46	22.41	22.34			
15	QPSK	36	39	22.35	22.29	22.38			
15	QPSK	75	0	22.36	22.45	22.24	23.5	0	
15	16QAM	1	0	22.51	22.43	22.47			
15	16QAM	1	37	22.39	22.38	22.43			
15	16QAM	1	74	22.39	22.42	22.27	23	0.5	
15	16QAM	36	0	22.47	22.43	22.30			
15	16QAM	36	20	22.41	22.43	22.41			
15	16QAM	36	39	22.37	22.42	22.35	23	0.5	
15	16QAM	75	0	22.45	22.43	22.40			
15	64QAM	1	0	22.09	22.36	22.36			
15	64QAM	1	37	22.22	22.55	22.55	22	1.5	
15	64QAM	1	74	22.37	22.38	22.27			
15	64QAM	36	0	21.37	21.54	21.47			
15	64QAM	36	20	21.36	21.41	21.40	23	0.5	
15	64QAM	36	39	21.39	21.42	21.28			
15	64QAM	75	0	21.45	21.40	21.38			
Channel				26760	26865	26960			
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	22.21	22.15	22.21	23.5	0	
10	QPSK	1	25	22.18	22.10	22.06			
10	QPSK	1	49	22.13	22.09	21.87			
10	QPSK	25	0	22.28	22.29	22.27	23.5	0	
10	QPSK	25	12	22.32	22.27	22.22			
10	QPSK	25	25	22.19	22.18	22.24			
10	QPSK	50	0	22.25	22.31	22.10	23	0.5	
10	16QAM	1	0	22.57	22.42	22.43			
10	16QAM	1	25	22.45	22.45	22.28			
10	16QAM	1	49	22.25	22.25	22.17	23	0.5	
10	16QAM	25	0	22.33	22.29	22.16			
10	16QAM	25	12	22.27	22.29	22.27			
10	16QAM	25	25	22.23	22.28	22.21	23	0.5	
10	16QAM	50	0	22.31	22.29	22.26			
10	64QAM	1	0	21.95	22.22	22.22			
10	64QAM	1	25	22.08	22.41	22.41	22	1.5	
10	64QAM	1	49	22.23	22.24	22.13			
10	64QAM	25	0	21.23	21.40	21.33			
10	64QAM	25	12	21.22	21.27	21.26	23	0.5	
10	64QAM	25	25	21.25	21.28	21.14			
10	64QAM	50	0	21.31	21.26	21.24			
Channel				26765	26865	27015			
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	22.24	22.12	22.23	23.5	0	
5	QPSK	1	12	22.10	22.22	22.13			
5	QPSK	1	24	21.96	21.99	21.92			
5	QPSK	12	0	22.34	22.20	22.13	23.5	0	
5	QPSK	12	7	22.34	22.15	22.13			
5	QPSK	12	13	22.21	22.25	22.00			
5	QPSK	25	0	22.19	22.23	22.01	23.5	0	
5	16QAM	1	0	22.43	22.39	22.50			
5	16QAM	1	12	22.39	22.42	22.52			
5	16QAM	1	24	22.53	22.41	22.51	23	0.5	
5	16QAM	12	0	22.47	22.43	22.30			
5	16QAM	12	7	22.41	22.43	22.41			
5	16QAM	12	13	22.37	22.42	22.35	23	0.5	
5	16QAM	25	0	22.45	22.43	22.40			
5	64QAM	1	0	22.09	22.36	22.36			
5	64QAM	1	12	22.22	22.55	22.55	22	1.5	
5	64QAM	1	24	22.37	22.38	22.27			
5	64QAM	12	0	21.37	21.54	21.47			
5	64QAM	12	7	21.36	21.41	21.40	23	0.5	
5	64QAM	12	13	21.39	21.42	21.28			
5	64QAM	25	0	21.45	21.40	21.38			
Channel				26765	26865	27025			
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	22.23	22.15	22.04	23.5	0	
3	QPSK	1	8	22.24	22.26	22.03			
3	QPSK	1	14	22.08	22.17	21.94			
3	QPSK	8	0	22.28	22.23	22.05	23.5	0	
3	QPSK	8	4	22.36	22.17	21.99			
3	QPSK	8	7	22.25	22.26	21.89			
3	QPSK	15	0	22.30	22.13	22.02	23.5	0	
3	16QAM	1	0	22.39	22.49	22.30			
3	16QAM	1	8	22.43	22.40	22.43			
3	16QAM	1	14	22.47	22.43	22.10	23	0.5	
3	16QAM	8	0	22.23	22.20	22.05			
3	16QAM	8	4	22.33	22.20	22.09			
3	16QAM	8	7	22.13	22.29	22.10	23	0.5	
3	16QAM	15	0	22.25	22.19	22.07			
3	64QAM	1	0	22.16	22.39	22.24			
3	64QAM	1	14	22.20	22.38	22.22	22	1.5	
3	64QAM	8	0	20.81	21.25	21.16			
3	64QAM	8	4	20.97	21.19	21.10			
3	64QAM	8	7	21.26	21.24	21.09	23	0.5	
3	64QAM	15	0	21.02	21.28	21.23			
Channel				26957	26865	27033			
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	22.15	22.04	21.83	23.5	0	
1.4	QPSK	1	3	22.17	22.12	21.88			
1.4	QPSK	1	5	22.13	22.07	21.80			
1.4	QPSK	3	0	22.11	22.00	21.94	23.5	0	
1.4	QPSK	3	1	22.15	22.14	21.90			
1.4	QPSK	3	3	22.14	22.01	21.86			
1.4	QPSK	6	0	22.21	22.17	21.94	23.5	0	
1.4	16QAM	1	0	22.54	22.32	22.17			
1.4	16QAM	1	3	22.54	22.63	22.20			
1.4	16QAM	1	5	22.43	22.40	22.21	23	0.5	
1.4	16QAM	3	0	22.25	22.17	22.05			
1.4	16QAM	3	1	22.38	22.23	22.12			
1.4	16QAM	3	3	22.19	22.21	22.06	23	0.5	
1.4	16QAM	6	0	22.36	22.21	22.07			
1.4	64QAM	1	0	22.03	22.36	21.97			
1.4	64QAM	1	3	22.03	22.47	22.03	23	0.5	
1.4	64QAM	1	5	22.00	22.40	22.02			
1.4	64QAM	3	0	22.07	22.22	21.96			
1.4	64QAM	3	1	22.08	22.26	22.01	22	1.5	
1.4	64QAM	3	3	21.92	22.30	21.98			
1.4	64QAM	6	0	21.03	21.16	21.05			

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	15.50	15.51	15.68	16.5	0	
20	QPSK	1	49	15.38	15.55	15.57			
20	QPSK	1	99	15.44	15.57	15.48			
20	QPSK	50	0	15.31	15.69	15.58	16.5	0	
20	QPSK	50	24	15.44	15.54	15.58			
20	QPSK	50	50	15.38	15.56	15.52			
20	QPSK	100	0	15.34	15.62	15.52	16.5	0	
20	16QAM	1	0	15.51	15.64	15.76			
20	16QAM	1	49	15.50	15.74	15.71			
20	16QAM	1	99	15.64	15.69	15.57	16.5	0	
20	16QAM	50	0	15.40	15.60	15.66			
20	16QAM	50	24	15.43	15.59	15.59			
20	16QAM	50	50	15.39	15.60	15.57	16.5	0	
20	16QAM	100	0	15.43	15.54	15.59			
20	64QAM	1	0	15.57	15.65	15.74			
20	64QAM	1	49	15.56	15.65	15.60	16.5	0	
20	64QAM	1	99	15.76	15.55	15.53			
20	64QAM	50	0	15.34	15.62	15.59			
20	64QAM	50	24	15.41	15.55	15.54	16.5	0	
20	64QAM	50	50	15.41	15.58	15.59			
20	64QAM	100	0	15.40	15.56	15.57			
Channel				132047	132322	132597			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	15.35	15.58	15.64	16.5	0	
15	QPSK	1	37	15.25	15.50	15.47			
15	QPSK	1	74	15.33	15.54	15.52			
15	QPSK	36	0	15.18	15.48	15.52	16.5	0	
15	QPSK	36	20	15.22	15.42	15.45			
15	QPSK	36	39	15.23	15.49	15.52			
15	QPSK	75	0	15.22	15.48	15.48	16.5	0	
15	16QAM	1	0	15.52	15.71	15.77			
15	16QAM	1	37	15.42	15.64	15.70			
15	16QAM	1	74	15.45	15.67	15.53	16.5	0	
15	16QAM								



**Band 38**

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								
Frequency (MHz)				2990	2995	2910		
20	QPSK	1	0	14.24	14.36	14.18	15	0
20	QPSK	1	49	14.18	14.18	14.12		
20	QPSK	1	99	14.20	14.22	14.16		
20	QPSK	50	0	14.32	14.39	14.23	15	0
20	QPSK	50	24	14.36	14.28	14.20		
20	QPSK	50	50	14.33	14.14	14.28		
20	QPSK	100	0	14.35	14.36	14.22	15	0
20	16QAM	1	0	14.31	14.22	14.28		
20	16QAM	1	49	14.24	14.20	14.14		
20	16QAM	1	99	14.29	14.28	14.21	15	0
20	16QAM	50	0	14.27	14.30	14.18		
20	16QAM	50	24	14.33	14.34	14.23		
20	16QAM	50	50	14.34	14.33	14.28	15	0
20	16QAM	100	0	14.36	14.30	14.14		
20	64QAM	1	0	13.82	13.83	13.55		
20	64QAM	1	49	13.80	13.77	13.43	15	0
20	64QAM	1	99	13.83	13.81	13.33		
20	64QAM	50	0	14.23	14.21	13.89		
20	64QAM	50	24	14.29	14.27	13.89	15	0
20	64QAM	50	50	14.29	14.25	13.85		
20	64QAM	100	0	14.19	14.37	14.18		
Channel								
Frequency (MHz)				37825	38000	38175		
Frequency (MHz)				2977.5	2995	2812.5		
15	QPSK	1	0	14.21	14.19	14.14	15	0
15	QPSK	1	37	14.21	14.23	14.21		
15	QPSK	1	74	14.22	14.28	14.10		
15	QPSK	36	0	14.34	14.21	13.89	15	0
15	QPSK	36	20	14.34	14.28	13.84		
15	QPSK	36	39	14.32	14.27	13.85		
15	QPSK	75	0	14.36	14.29	14.18	15	0
15	16QAM	1	0	14.28	14.29	13.97		
15	16QAM	1	37	14.17	14.07	13.95		
15	16QAM	1	74	14.34	14.28	13.90	15	0
15	16QAM	36	0	14.30	14.21	13.81		
15	16QAM	36	20	14.30	14.25	13.85		
15	16QAM	36	39	14.28	14.25	13.88	15	0
15	16QAM	75	0	14.33	14.32	14.02		
15	64QAM	1	0	13.85	13.85	13.55		
15	64QAM	1	37	13.87	13.78	13.65	15	0
15	64QAM	1	74	13.90	13.84	13.61		
15	64QAM	36	0	14.34	14.24	13.87		
15	64QAM	36	20	14.35	14.29	13.89	15	0
15	64QAM	36	39	14.31	14.29	13.88		
15	64QAM	75	0	14.33	14.23	14.02		
Channel								
Frequency (MHz)				37800	38000	38200		
Frequency (MHz)				2975	2995	2915		
10	QPSK	1	0	14.02	14.10	14.07	15	0
10	QPSK	1	25	14.18	14.18	14.14		
10	QPSK	1	49	14.05	14.10	14.08		
10	QPSK	25	0	14.22	14.07	14.05	15	0
10	QPSK	25	12	14.25	14.17	14.09		
10	QPSK	25	25	14.19	14.16	14.12		
10	QPSK	50	0	14.19	14.17	14.07	15	0
10	16QAM	1	0	14.22	14.13	14.08		
10	16QAM	1	25	14.23	14.24	14.18		
10	16QAM	1	49	14.16	14.17	14.17	15	0
10	16QAM	25	0	14.17	14.03	13.99		
10	16QAM	25	12	14.19	14.37	14.04		
10	16QAM	25	25	14.16	14.11	14.04	15	0
10	16QAM	50	0	14.17	13.93	13.95		
10	64QAM	1	0	13.78	13.82	13.76		
10	64QAM	1	25	13.77	13.75	13.53	15	0
10	64QAM	1	49	13.72	13.76	13.51		
10	64QAM	25	0	14.12	14.03	14.02		
10	64QAM	25	12	14.20	14.21	14.06	15	0
10	64QAM	25	25	14.11	14.10	14.05		
10	64QAM	50	0	14.11	14.07	13.94		
Channel								
Frequency (MHz)				37775	38000	38225		
Frequency (MHz)				2972.5	2995	2817		
5	QPSK	1	0	13.99	13.87	13.92	15	0
5	QPSK	1	12	14.06	13.98	13.95		
5	QPSK	1	24	13.97	13.92	13.78		
5	QPSK	12	0	14.22	14.12	14.18	15	0
5	QPSK	12	7	14.27	14.22	14.19		
5	QPSK	12	15	14.23	14.16	14.16		
5	QPSK	25	0	14.20	14.15	14.12	15	0
5	16QAM	1	0	14.19	13.95	14.17		
5	16QAM	1	12	14.32	14.12	14.20		
5	16QAM	1	24	14.19	14.15	14.14	15	0
5	16QAM	12	0	14.16	14.13	14.07		
5	16QAM	12	7	14.16	14.19	14.11		
5	16QAM	12	15	14.10	14.12	14.09	15	0
5	16QAM	25	0	14.16	14.16	14.11		
5	64QAM	1	0	13.96	14.10	13.91		
5	64QAM	1	12	14.09	14.12	14.02	15	0
5	64QAM	1	24	14.03	14.15	13.90		
5	64QAM	12	0	14.17	14.08	14.06		
5	64QAM	12	7	14.17	14.20	14.10	15	0
5	64QAM	12	15	14.11	14.11	14.05		
5	64QAM	25	0	14.14	14.12	14.03		

**Band 41/Band 41(HPUe)**

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										
Frequency (MHz)				2906	2949.5	2993	2938.5	2880		
20	QPSK	1	0	14.06	14.24	14.54	14.14	14.22	15	0
20	QPSK	1	49	14.16	14.21	14.44	14.22	14.42		
20	QPSK	1	99	14.21	14.24	14.36	14.18	14.20		
20	QPSK	50	0	14.16	14.15	14.44	14.05	14.39	15	0
20	QPSK	50	24	14.19	14.21	14.15	14.11	14.35		
20	QPSK	50	50	14.18	14.22	14.15	14.07	14.42		
20	QPSK	100	0	14.17	14.21	14.36	14.02	14.34	15	0
20	16QAM	1	0	14.10	14.05	14.07	14.05	14.17		
20	16QAM	1	49	14.05	14.03	14.08	14.11	14.51		
20	16QAM	1	99	14.08	14.09	14.09	14.08	14.21	15	0
20	16QAM	50	0	14.14	14.12	14.11	14.09	14.42		
20	16QAM	50	24	14.20	14.17	14.18	14.09	14.39		
20	16QAM	50	50	14.20	14.19	14.12	14.12	14.45	15	0
20	16QAM	100	0	14.19	14.18	14.14	14.03	14.39		
20	64QAM	1	0	13.92	13.88	13.84	13.89	13.93		
20	64QAM	1	49	13.89	13.89	13.92	13.95	14.35	15	0
20	64QAM	1	99	13.88	13.90	13.94	13.90	14.14		
20	64QAM	50	0	14.12	14.05	14.03	14.06	14.36		
20	64QAM	50	24	14.10	14.14	14.10	14.13	14.41	15	0
20	64QAM	50	50	14.14	14.13	14.07	14.12	14.42		
20	64QAM	100	0	14.23	14.17	14.20	14.08	14.44		
Channel										
Frequency (MHz)				39725	40173	40620	41068	41515		
Frequency (MHz)				2903.5	2948.3	2993	2937.8	2882.5		
15	QPSK	1	0	14.35	14.29	14.19	14.20	14.10	15	0
15	QPSK	1	37	14.33	14.37	14.21	14.21	14.36		
15	QPSK	1	74	14.39	14.44	14.23	14.16	14.24		
15	QPSK	36	0	14.46	14.43	14.34	14.36	14.59	15	0
15	QPSK	36	20	14.45	14.45	14.35	14.39	14.52		
15	QPSK	36	39	14.43	14.47	14.38	14.42	14.46		
15	QPSK	75	0	14.44	14.50	14.29	14.24	14.41	15	0
15	16QAM	1	0	14.41	14.39	14.39	14.35	14.28		
15	16QAM	1	37	14.33	14.42	14.38	14.48	14.52		
15	16QAM	1	74	14.39	14.45	14.39	14.38	14.45	15	0
15	16QAM	36	0	14.42	14.42	14.39	14.38	14.59		
15	16QAM	36	20	14.45	14.44	14.39	14.48	14.37		
15	16QAM	36	39	14.45	14.43	14.38	14.39	14.45	15	0
15	16QAM	75	0	14.47	14.28	14.30	14.29	14.47		
15	64QAM	1	0	14.38	14.48	14.46	14.48	14.09		
15	64QAM	1	37	14.38	14.52	14.42	14.41	14.33	15	0
15	64QAM	1	74	14.38	14.46	14.39	14.39	14.40		
15	64QAM	36	0	14.47	14.44	14.45	14.48	14.44		
15	64QAM	36	20	14.45	14.46	14.46	14.50	14.31	15	0
15	64QAM	36	39	14.45	14.49	14.48	14.45	14.52		
15	64QAM	75	0	14.45	14.28	14.30	14.34	14.46		



Reduced Power Mode for Handheld On

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513	
Tx Channel	9662	9800	9938		1537	1638	1738	
Rx Channel								
Frequency (MHz)	1852.4	1869	1897.6		1712.4	1729.6	1757.2	
3GPP Rel 99	AMR 12.2kbps	1872	1873	1871	19.50	19.52	19.55	19.91
3GPP Rel 99	RMC 12.2kbps	18.73	18.74	18.72	19.50	19.93	19.96	19.92
3GPP Rel 6	HSDPA Subtest-1	17.93	17.97	17.88	18.50	18.94	18.90	18.76
3GPP Rel 6	HSDPA Subtest-2	17.96	17.94	17.88	18.50	18.97	18.91	18.74
3GPP Rel 6	HSDPA Subtest-3	17.45	17.44	17.37	18.00	18.48	18.41	18.20
3GPP Rel 6	HSDPA Subtest-4	17.45	17.45	17.43	18.00	18.44	18.39	18.24
3GPP Rel 8	DC-HSDPA Subtest-1	17.92	17.96	17.87	18.50	18.93	18.89	18.75
3GPP Rel 8	DC-HSDPA Subtest-2	17.85	17.93	17.87	18.50	18.96	18.90	18.73
3GPP Rel 8	DC-HSDPA Subtest-3	17.45	17.43	17.38	18.00	18.45	18.40	18.19
3GPP Rel 8	DC-HSDPA Subtest-4	17.44	17.44	17.42	18.00	18.43	18.38	18.23
3GPP Rel 6	HSUPA Subtest-1	17.95	17.98	17.88	18.50	18.93	18.88	18.70
3GPP Rel 6	HSUPA Subtest-2	15.98	15.94	15.93	16.50	16.94	16.88	16.73
3GPP Rel 6	HSUPA Subtest-3	16.94	16.94	16.86	17.50	17.91	17.88	17.69
3GPP Rel 6	HSUPA Subtest-4	15.95	15.98	15.87	16.50	16.95	16.87	16.71
3GPP Rel 6	HSUPA Subtest-5	17.90	17.90	17.90	18.50	18.95	18.85	18.75

Band	CDMA B1C1			Tune-up Limit (dBm)
	25	690	1175	
Tx Channel				
Rx Channel				
Frequency (MHz)	1851.25	1880	1908.75	
RC1 S055	21.15	21.33	21.48	22.00
RC1 S059	21.17	21.35	21.48	22.00
RC3 S052 (F-SCH)	21.13	21.35	21.51	22.00
RC3 S052 (H-SCH)	21.16	21.36	21.51	22.00
RTAP 153 (6kbps)	21.21	21.39	21.53	22.00
RETAP 459681a	21.20	21.31	21.47	22.00





Band 2										
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										
Frequency (MHz)										
20	QPSK	1	0	19.68	19.68	19.70	21	0		
20	QPSK	1	49	19.67	19.61	19.56				
20	QPSK	1	99	19.62	19.68	19.58	21	0		
20	QPSK	50	0	19.86	19.97	19.75				
20	QPSK	50	24	19.91	19.69	19.78	21	0		
20	QPSK	50	50	19.79	19.80	19.86				
20	QPSK	100	0	19.86	19.96	19.79	21	0		
20	16QAM	1	0	19.74	19.74	19.86				
20	16QAM	1	49	19.84	19.62	19.78	21	0		
20	16QAM	1	99	19.75	19.85	19.76				
20	16QAM	50	0	19.82	19.68	19.84	21	0		
20	16QAM	50	24	19.87	19.77	19.88				
20	16QAM	50	50	19.75	19.77	19.86	21	0		
20	16QAM	100	0	19.89	19.74	19.78				
20	64QAM	1	0	19.93	19.81	19.76	21	0		
20	64QAM	1	49	19.90	19.63	19.70				
20	64QAM	1	99	19.77	19.82	19.84	21	0		
20	64QAM	50	0	19.47	19.50	19.37				
20	64QAM	50	24	19.63	19.42	19.41	21	0		
20	64QAM	50	50	19.29	19.53	19.31				
20	64QAM	100	0	19.64	19.38	19.28	21	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	19.76	19.68	19.64	21	0		
15	QPSK	1	37	19.76	19.64	19.60				
15	QPSK	1	74	19.77	19.61	19.63	21	0		
15	QPSK	36	0	19.80	19.68	19.79				
15	QPSK	36	20	19.84	19.83	19.83	21	0		
15	QPSK	36	39	19.85	19.74	19.94				
15	QPSK	75	0	19.89	19.74	19.87	21	0		
15	16QAM	1	0	19.69	19.78	19.62				
15	16QAM	1	37	19.85	19.67	19.65	21	0		
15	16QAM	1	74	19.76	19.75	19.82				
15	16QAM	36	0	19.76	19.68	19.72	21	0		
15	16QAM	36	20	19.95	19.69	19.84				
15	16QAM	36	39	19.79	19.75	19.84	21	0		
15	16QAM	75	0	19.87	19.64	19.84				
15	64QAM	1	0	19.92	19.81	19.70	21	0		
15	64QAM	1	37	19.93	19.91	19.84				
15	64QAM	1	74	19.83	19.73	19.76	21	0		
15	64QAM	36	0	19.62	19.41	19.39				
15	64QAM	36	20	19.75	19.42	19.44	21	0		
15	64QAM	36	39	19.52	19.61	19.51				
15	64QAM	75	0	19.64	19.38	19.21	21	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.49	19.72	19.44	21	0		
10	QPSK	1	25	19.44	19.43	19.47				
10	QPSK	1	49	19.65	19.31	19.57	21	0		
10	QPSK	25	0	19.57	19.39	19.48				
10	QPSK	25	12	19.49	19.50	19.54	21	0		
10	QPSK	25	25	19.69	19.48	19.53				
10	QPSK	50	0	19.51	19.51	19.53	21	0		
10	16QAM	1	0	19.81	19.64	19.80				
10	16QAM	1	25	19.94	19.80	19.72	21	0		
10	16QAM	1	49	19.78	19.75	19.87				
10	16QAM	25	0	19.60	19.47	19.54	21	0		
10	16QAM	25	12	19.69	19.52	19.84				
10	16QAM	25	25	19.71	19.58	19.62	21	0		
10	16QAM	50	0	19.55	19.58	19.62				
10	64QAM	1	0	19.78	19.45	19.62	21	0		
10	64QAM	1	25	19.86	19.75	19.74				
10	64QAM	1	49	19.75	19.42	19.68	21	0		
10	64QAM	25	0	19.51	19.24	19.35				
10	64QAM	25	12	19.46	19.32	19.41	21	0		
10	64QAM	25	25	19.42	19.38	19.26				
10	64QAM	50	0	19.41	19.16	19.33	21	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.47	19.86	19.43	21	0		
5	QPSK	1	12	18.53	19.39	19.52				
5	QPSK	1	24	19.48	19.42	19.62	21	0		
5	QPSK	12	0	19.47	19.40	19.45				
5	QPSK	12	7	19.66	19.45	19.63	21	0		
5	QPSK	12	13	19.63	19.35	19.54				
5	QPSK	25	0	19.51	19.40	19.58	21	0		
5	16QAM	1	0	19.90	19.73	19.82				
5	16QAM	1	12	19.85	19.67	19.75	21	0		
5	16QAM	1	24	19.90	19.64	19.75				
5	16QAM	12	0	19.64	19.45	19.66	21	0		
5	16QAM	12	7	19.57	19.62	19.64				
5	16QAM	12	13	19.61	19.51	19.50	21	0		
5	16QAM	25	0	19.59	19.45	19.65				
5	64QAM	1	0	19.67	19.48	19.62	21	0		
5	64QAM	1	12	19.63	19.24	19.55				
5	64QAM	1	24	19.65	19.56	19.69	21	0		
5	64QAM	12	0	19.48	19.27	19.32				
5	64QAM	12	7	19.49	19.45	19.36	21	0		
5	64QAM	12	13	19.51	19.29	19.31				
5	64QAM	25	0	19.40	19.30	19.33	21	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.97	19.88	19.74	21	0		
3	QPSK	1	8	19.52	19.61	19.93				
3	QPSK	1	14	19.76	19.66	19.88	21	0		
3	QPSK	8	0	19.59	19.36	19.56				
3	QPSK	8	4	19.60	19.42	19.58	21	0		
3	QPSK	8	7	19.49	19.52	19.55				
3	QPSK	15	0	19.76	19.39	19.84	21	0		
3	16QAM	1	0	19.80	19.77	19.69				
3	16QAM	1	8	19.68	19.71	19.82	21	0		
3	16QAM	1	14	19.75	19.83	19.86				
3	16QAM	8	0	19.64	19.47	19.40	21	0		
3	16QAM	8	4	19.63	19.46	19.48				
3	16QAM	8	7	19.70	19.60	19.67	21	0		
3	16QAM	15	0	19.66	19.24	19.56				
3	64QAM	1	0	19.68	19.44	19.31	21	0		
3	64QAM	1	8	19.47	19.73	19.59				
3	64QAM	1	14	19.79	19.51	19.57	21	0		
3	64QAM	8	0	19.33	19.29	19.19				
3	64QAM	8	4	19.51	19.24	19.36	21	0		
3	64QAM	8	7	19.34	19.43	19.34				
3	64QAM	15	0	19.47	19.38	19.26	21	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	19.82	19.76	19.98	21	0		
1.4	QPSK	1	3	19.86	19.63	19.60				
1.4	QPSK	1	5	19.73	19.81	19.83	21	0		
1.4	QPSK	3	0	19.51	19.37	19.64				
1.4	QPSK	3	1	19.47	19.44	19.40	21	0		
1.4	QPSK	3	3	19.44	19.33	19.45				
1.4	QPSK	6	0	19.48	19.34	19.51	21	0		
1.4	16QAM	1	0	19.60	19.75	19.83				
1.4	16QAM	1	3	19.80	19.83	19.66	21	0		
1.4	16QAM	1	5	19.80	19.66	19.71				
1.4	16QAM	3	0	19.62	19.50	19.60	21	0		
1.4	16QAM	3	1	19.50	19.65	19.64				
1.4	16QAM	3	3	19.61	19.32	19.61	21	0		
1.4	16QAM	6	0	19.72	19.54	19.59				
1.4	64QAM	1	0	19.61	19.61	19.68	21	0		
1.4	64QAM	1	3	19.74	19.56	19.65				
1.4	64QAM	1	5	19.61	19.58	19.60	21	0		
1.4	64QAM	3	0	19.51	19.53	19.51				
1.4	64QAM	3	1	19.63	19.51	19.57	21	0		
1.4	64QAM	3	3	19.52	19.57	19.56				
1.4	64QAM	6	0	19.13	19.18	19.20	21	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	20.98	21.07	20.77	22	0		
1.4	QPSK	1	3	21.08	21.00	20.95				
1.4	QPSK	1	5	21.08	21.17	20.82	22	0		
1.4	QPSK	3	0	21.02	21.19	20.85				
1.4	QPSK	3	1	21.09	21.13	20.97	22	0		
1.4	QPSK	3	3	21.06	21.06	20.82				
1.4	QPSK	6	0	21.07	21.16	20.94	22	0		
1.4	16QAM	1	0	21.35	21.34	21.16				
1.4	16QAM	1	3	21.43	21.42	21.21	22	0		
1.4	16QAM	1	5	21.22	21.49	21.06				
1.4	16QAM	3								



Band 25										
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										
Frequency (MHz)										
20	QPSK	1	0	20.03	20.18	20.18	21	0		
20	QPSK	1	49	19.96	19.94	20.22				
20	QPSK	1	99	19.89	19.94	20.22	21	0		
20	QPSK	50	0	20.12	20.23	20.15				
20	QPSK	50	24	20.17	20.07	20.11	21	0		
20	QPSK	50	50	20.08	20.06	20.17				
20	QPSK	100	0	20.14	20.16	20.11	21	0		
20	16QAM	1	0	20.14	20.06	20.12				
20	16QAM	1	49	20.08	20.08	20.13	21	0		
20	16QAM	1	99	20.00	20.09	20.16				
20	16QAM	50	0	20.08	20.02	20.12	21	0		
20	16QAM	50	24	20.16	20.08	20.14				
20	16QAM	50	50	20.10	20.05	20.22	21	0		
20	16QAM	100	0	20.14	20.08	20.12				
20	64QAM	1	0	20.09	20.18	20.11	21	0		
20	64QAM	1	49	20.14	20.23	20.21				
20	64QAM	1	99	20.10	20.12	20.12	21	0		
20	64QAM	50	0	20.09	20.05	20.09				
20	64QAM	50	24	20.17	20.08	20.12	21	0		
20	64QAM	50	50	20.08	20.10	20.20				
20	64QAM	100	0	20.14	20.08	20.10	21	0		
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.11	20.15	20.16	21	0		
15	QPSK	1	37	20.08	20.10	20.24				
15	QPSK	1	74	20.05	20.12	20.13	21	0		
15	QPSK	36	0	20.25	20.20	20.07				
15	QPSK	36	20	20.19	20.24	20.16	21	0		
15	QPSK	36	39	20.16	20.22	20.16				
15	QPSK	75	0	20.18	20.21	20.14	21	0		
15	16QAM	1	0	20.13	20.22	20.15				
15	16QAM	1	37	20.11	20.20	20.14	21	0		
15	16QAM	1	74	20.15	20.15	20.16				
15	16QAM	36	0	20.00	19.95	20.08	21	0		
15	16QAM	36	20	20.21	20.01	20.16				
15	16QAM	36	39	20.14	19.97	20.13	21	0		
15	16QAM	75	0	20.19	20.00	20.10				
15	64QAM	1	0	20.09	20.06	20.19	21	0		
15	64QAM	1	37	20.24	20.10	20.16				
15	64QAM	1	74	20.23	20.00	20.11	21	0		
15	64QAM	36	0	20.25	20.17	20.13				
15	64QAM	36	20	20.22	20.21	20.21	21	0		
15	64QAM	36	39	20.17	20.21	20.13				
15	64QAM	75	0	20.21	20.24	20.10	21	0		
Channel										
Frequency (MHz)										
10	QPSK	1	0	19.79	19.87	20.18	21	0		
10	QPSK	1	25	19.88	19.95	20.22				
10	QPSK	1	49	19.80	19.91	20.16	21	0		
10	QPSK	25	0	19.96	20.02	20.23				
10	QPSK	25	12	20.02	20.06	20.25	21	0		
10	QPSK	25	25	19.98	20.06	20.10				
10	QPSK	50	0	19.99	20.07	20.01	21	0		
10	16QAM	1	0	20.19	20.13	20.19				
10	16QAM	1	25	20.23	20.02	20.07	21	0		
10	16QAM	1	49	20.17	20.25	20.15				
10	16QAM	25	0	20.00	20.04	19.98	21	0		
10	16QAM	25	12	20.04	20.08	20.03				
10	16QAM	25	25	19.97	20.04	20.12	21	0		
10	16QAM	50	0	19.99	20.04	19.98				
10	64QAM	1	0	20.04	20.04	20.12	21	0		
10	64QAM	1	25	20.13	20.20	20.22				
10	64QAM	1	49	20.04	20.16	20.21	21	0		
10	64QAM	25	0	20.01	19.83	19.99				
10	64QAM	25	12	20.07	20.08	20.08	21	0		
10	64QAM	25	25	20.01	20.05	20.10				
10	64QAM	50	0	20.01	20.05	20.04	21	0		
Channel										
Frequency (MHz)										
5	QPSK	1	0	19.87	19.85	20.20	21	0		
5	QPSK	1	12	19.94	19.98	20.21				
5	QPSK	1	24	19.89	19.93	20.23	21	0		
5	QPSK	12	0	19.95	20.00	20.11				
5	QPSK	12	7	20.01	20.07	20.08	21	0		
5	QPSK	12	13	20.04	20.06	20.09				
5	QPSK	25	0	19.98	20.01	20.09	21	0		
5	16QAM	1	0	20.19	20.22	20.10				
5	16QAM	1	12	20.17	20.23	20.05	21	0		
5	16QAM	1	24	20.24	20.13	20.10				
5	16QAM	12	0	19.98	20.01	20.06	21	0		
5	16QAM	12	7	20.08	20.06	20.11				
5	16QAM	12	13	20.02	20.12	20.13	21	0		
5	16QAM	25	0	20.00	20.05	20.12				
5	64QAM	1	0	20.17	20.08	20.20	21	0		
5	64QAM	1	12	20.12	20.12	20.23				
5	64QAM	1	24	20.11	20.16	20.19	21	0		
5	64QAM	12	0	19.98	19.99	20.04				
5	64QAM	12	7	20.02	20.04	20.12	21	0		
5	64QAM	12	13	20.04	20.09	20.11				
5	64QAM	25	0	20.00	20.03	20.10	21	0		
Channel										
Frequency (MHz)										
3	QPSK	1	0	19.95	20.00	20.11	21	0		
3	QPSK	1	8	20.01	20.07	20.08				
3	QPSK	1	14	20.04	20.06	20.09	21	0		
3	QPSK	8	0	19.98	20.01	20.09				
3	QPSK	8	4	20.19	20.22	20.12	21	0		
3	QPSK	8	7	20.17	20.23	20.05				
3	QPSK	15	0	20.02	20.04	20.12	21	0		
3	16QAM	1	0	20.04	20.09	20.11				
3	16QAM	1	8	20.00	20.03	20.10	21	0		
3	16QAM	1	14	20.24	20.13	20.10				
3	16QAM	8	0	19.98	20.01	20.06	21	0		
3	16QAM	8	4	20.06	20.06	20.11				
3	16QAM	8	7	20.02	20.12	20.13	21	0		
3	16QAM	15	0	20.00	20.05	20.12				
3	64QAM	1	0	19.98	20.02	20.09	21	0		
3	64QAM	1	8	20.19	20.22	20.10				
3	64QAM	1	14	20.17	20.23	20.05	21	0		
3	64QAM	8	0	20.24	20.13	20.10				
3	64QAM	8	4	19.98	20.01	20.06	21	0		
3	64QAM	8	7	20.06	20.06	20.11				
3	64QAM	15	0	20.17	20.23	20.05	21	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	19.97	20.04	20.12	21	0		
1.4	QPSK	1	3	19.99	20.04	19.98				
1.4	QPSK	1	5	20.04	20.04	20.12	21	0		
1.4	QPSK	3	0	20.13	20.20	20.22				
1.4	QPSK	3	1	20.04	20.16	20.11	21	0		
1.4	QPSK	3	3	20.01	19.83	19.99				
1.4	QPSK	6	0	20.07	20.08	20.08	21	0		
1.4	16QAM	1	0	19.96	20.02	20.23				
1.4	16QAM	1	3	20.02	20.06	20.25	21	0		
1.4	16QAM	1	5	19.98	20.06	20.10				
1.4	16QAM	3	0	19.99	20.07	20.01	21	0		
1.4	16QAM	3	1	20.15	20.13	20.11				
1.4	16QAM	3	1	20.23	20.02	20.22	21	0		
1.4	64QAM	1	0	20.17	20.08	20.11				
1.4	64QAM	1	0	20.04	20.04	19.99	21	0		
1.4	64QAM	1	3	20.13	20.20	20.22				
1.4	64QAM	1	5	20.04	20.16	20.11	21	0		
1.4	64QAM	3	0	20.01	19.83	19.99				
1.4	64QAM	3	1	20.07	20.08	20.08	21	0		
1.4	64QAM	3	3	20.19	20.22	20.10				
1.4	64QAM	6	0	20.17	20.23	20.05	21	0		
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.07	21.09	20.84	22	0		
1.4	QPSK	1	3	21.11	21.08	20.88				
1.4	QPSK	1	5	21.07	21.04	20.86	22	0		
1.4	QPSK	3	0	21.11	21.21	21.02				
1.4	QPSK	3	1	21.14	21.21	21.00	22	0		
1.4	QPSK	3	3	21.07	21.12	20.86				
1.4	QPSK	6	0	21.16	21.18	21.01	22	0		
1.4	16QAM	1	0	21.40	21.42	21.19				
1.4	16QAM	1	3	21.44	21.48	21.25	22	0		
1.4	16QAM	1	5	21.31	21.51	21.13				
1.4										

CA\_41C UP Link power

Full Power								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	23.42	24
39750	39552	QPSK	1	0	0	0	23.41	24
40185	39987	QPSK	1	0	0	0	23.43	24
41055	40857	QPSK	1	0	0	0	23.44	24
41490	41292	QPSK	1	0	0	0	23.39	24

Sensor								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	18.68	20
39750	39552	QPSK	1	0	0	0	18.61	20
40185	39987	QPSK	1	0	0	0	18.72	20
41055	41253	QPSK	1	0	0	0	18.65	20
41490	41292	QPSK	1	0	0	0	18.62	20

Hotspot								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	14.1	15
39750	39552	QPSK	1	0	0	0	14.06	15
40185	39987	QPSK	1	0	0	0	13.93	15
41055	41253	QPSK	1	0	0	0	14.09	15
41490	41292	QPSK	1	0	0	0	14.11	15

<EN-DC>

Full Power								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	23.42	24
39750	39552	QPSK	1	0	0	0	23.41	24
40185	39987	QPSK	1	0	0	0	23.43	24
41055	40857	QPSK	1	0	0	0	23.44	24
41490	41292	QPSK	1	0	0	0	23.39	24

Sensor								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	17.11	18
39750	39552	QPSK	1	0	0	0	17.04	18
40185	39987	QPSK	1	0	0	0	17	18
41055	41253	QPSK	1	0	0	0	17.14	18
41490	41292	QPSK	1	0	0	0	17.08	18

Hotspot								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	12.13	13
39750	39552	QPSK	1	0	0	0	12.01	13
40185	39987	QPSK	1	0	0	0	12.11	13
41055	41253	QPSK	1	0	0	0	12.04	13
41490	41292	QPSK	1	0	0	0	12.07	13

Handheld								
CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
40620	40818	QPSK	1	0	0	0	20.24	21
39750	39552	QPSK	1	0	0	0	20.19	21
40185	39987	QPSK	1	0	0	0	20.14	21
41055	41253	QPSK	1	0	0	0	20.21	21
41490	41292	QPSK	1	0	0	0	20.2	21



### Full Power Mode 2CA DL

Configure	CA List	PCC								SCC				Power	
		LTE	BW	UL	UL	UL#	DL Antenna Configuration	UL	LTE	BW	DL	DL Antenna Configuration	DL	With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Tx Power (dBm)	Tx Power (dBm)	
Inter-Band	CA_2A-4A	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	22.83	22.90	
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	22.96	22.97		
	CA_2A-5A	Band 2	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	22.86	22.90	
	Band 5	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	22.76	22.81		
	CA_2A-12A	Band 2	20M	1880	18900	QPSK	1	0	Band 12	10M	737.5	5095	22.88	22.90	
	Band 12	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	22.77	22.86		
	CA_2A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 66	20M	2155	66886	22.96	22.90	
	Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	22.83	22.98		
	CA_2A-71A	Band 2	20M	1880	18900	QPSK	1	0	Band 71	20M	637	68786	22.94	22.90	
	Band 71	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	22.94	23.22		
	CA_4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	23.06	22.97	
	Band 5	10M	836.5	20525	QPSK	1	0	Band 4	20M	2132.5	2175	22.87	22.81		
	CA_4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 12	10M	737.5	5095	23.08	22.97	
	Band 12	10M	707.5	23095	QPSK	1	0	Band 4	20M	2132.5	2175	22.80	22.86		
	CA_4A-71A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 71	20M	637	68786	23.10	22.97	
	Band 71	20M	683	133322	QPSK	1	0	Band 4	20M	2132.5	2175	22.91	23.22		
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	22.75	22.81	
	Band 41	20M	2593	40620	QPSK	1	0	Band 5	10M	881.5	2525	23.43	23.98		
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	4x4MIMO	Band 41	20M	2593	40620	22.71	22.81	
	Band 41	20M	2593	40620	QPSK	1	0	Band 5	10M	881.5	2525	23.76	23.98		
	CA_12A-66A	Band 12	10M	707.5	23095	QPSK	1	0	Band 66	20M	2155	66886	22.75	22.86	
	Band 66	20M	1745	132322	QPSK	1	0	Band 12	10M	737.5	5095	22.90	22.98		
	CA_25A-26A	Band 25	20M	1880	26340	QPSK	1	0	Band 26	15M	876.5	8865	22.91	22.92	
	Band 26	15M	831.5	26865	QPSK	1	0	Band 25	20M	1962.5	8365	22.97	22.94		
CA_25A-41A	Band 25	20M	1880	26340	QPSK	1	0	Band 41	20M	2593	40620	22.87	22.92		
Band 41	20M	2593	40620	QPSK	1	0	Band 25	20M	1962.5	8365	23.09	23.98			
CA_26A-41A	Band 26	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	23.05	22.94		
Band 41	20M	2593	40620	QPSK	1	0	Band 26	15M	876.5	8865	23.41	23.98			
CA_66A-71A	Band 66	20M	1745	132322	QPSK	1	0	Band 71	20M	637	68786	22.86	22.98		
Band 71	20M	683	133322	QPSK	1	0	Band 66	20M	2145	66786	22.91	23.22			
Intra-Band	CA_2C	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.8	1098	22.94	22.90	
	CA_12B	Band 12	5M	701.5	23035	QPSK	1	0	Band 12	10M	741.2	5107	22.23	22.86	
	CA_41C	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	23.32	23.98	
	CA_66B	Band 66	15M	1745	132322	QPSK	1	0	Band 66	5M	2164.3	66979	22.84	22.65	
	CA_66C	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	22.90	22.98	
	CA_2A-2A	Band 2	20M	1880	18900	QPSK	1	0	Band 2	5M	1987.5	1175	22.96	22.90	
	CA_4A-4A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	23.14	22.97	
	CA_25A-25A	Band 25	20M	1880	26340	QPSK	1	0	Band 25	5M	1992.5	8665	22.96	22.92	
	CA_41A-41A	Band 41	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	23.43	23.98	
	CA_66A-66A	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	23.02	22.98	

### 3CA DL

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

Configure		PCC							SCC1					SCC2					Power		
		LTE	BW	UL	UL	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
		Band	(MHz)	Freq. (MHz)	Channel	Mod.	RB		RB Offset	Band	(MHz)	Freq. (MHz)		Channel	Band	(MHz)	Freq. (MHz)		Channel	Tx Power (dBm)	Tx Power (dBm)
Inter-Band	CA_2A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 5	10M	881.5	2525		22.92	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		Band 2	20M	1960	900		22.85	22.97
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.57	22.81
	CA_2A4-4A-5A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		22.92	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO	22.88	22.97
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.57	22.81
	CA_2A-4A-12A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 12	10M	737.5	5095		22.94	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	10M	737.5	5095		Band 2	20M	1960	900		22.81	22.97
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.63	22.86
	CA_2A4-4A-12A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095		22.94	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 2	20M	1960	900	4x4MIMO	22.89	22.97
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.63	22.86
	CA_2A-4A-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 71	20M	637	68786		23.03	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 71	20M	637	68786		Band 2	20M	1960	900		22.42	22.97
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.7	23.22
	CA_2A4-4A-71A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	637	68786		23.03	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 71	20M	637	68786		Band 2	20M	1960	900	4x4MIMO	22.85	22.97
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.7	23.22
	CA_2A-12A-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 12	10M	737.5	5095		Band 66	20M	2155	66886		23.05	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 66	20M	2155	66886		Band 2	20M	1960	900		22.63	22.86
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 12	10M	737.5	5095		23.13	22.98



### 3CA DL

#### Inter-Band for Three Carrier C

Configure	PCC										SCC1				SCC2				Power	
	LTE	BW	UL	UL	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA		
	Band	(MHz)	Freq. (MHz)	Channel	Mod.	RB		RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)		Channel	Tx Power (dBm)	Tx Power (dBm)	
CA_2A-2A-4A	Band 2	20M	1880	1890	QPSK	1	0	Band 2	5M	1887.5	1175	Band 4	20M	2132.5	2175		22.91	22.9		
	Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175		23.13	22.97		
CA_2A4-2A4-4A4	Band 2	20M	1880	1890	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.85	22.9
	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	22.11	22.97
CA_2A-4A-4A	Band 2	20M	1880	1890	QPSK	1	0		Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375		22.98	22.9	
	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375	Band 2	20M	1960	900		23.16	22.97	
CA_2A4-4A4-4A4	Band 2	20M	1880	1890	QPSK	1	0		Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375		22.98	22.9	
	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375	Band 2	20M	1960	900		23.16	22.97	
CA_2A-2A-5A	Band 2	20M	1880	1890	QPSK	1	0		Band 2	5M	1987.5	1175	Band 5	10M	881.5	2525		23.03	22.9	
	Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	Band 2	5M	1987.5	1175		22.58	22.81	
CA_2A4-2A4-5A	Band 2	20M	1880	1890	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525		23.03	22.9
	Band 5	10M	836.5	20525	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	22.58	22.81
CA_2A-2A-12A	Band 2	20M	1880	1890	QPSK	1	0		Band 2	5M	1987.5	1175	Band 12	10M	737.5	5095		23.05	22.9	
	Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	Band 2	5M	1987.5	1175		22.57	22.86	
CA_2A-6A-71A	Band 2	20M	1880	1890	QPSK	1	0		Band 66	20M	2155	68886	Band 71	20M	637	68786		22.96	22.9	
	Band 71	20M	683	133322	QPSK	1	0		Band 66	20M	2155	68886	Band 2	5M	1987.5	1175		22.73	23.22	
CA_2A-12B	Band 2	20M	1880	1890	QPSK	1	0		Band 12	5M	737.5	5095	Band 12	10M	744.7	5167		22.94	22.9	
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167	Band 2	20M	1960	900		22.66	22.47	
CA_2A4-12B	Band 2	20M	1880	1890	QPSK	1	0		Band 12	5M	737.5	5095	Band 12	10M	744.7	5167		22.94	22.9	
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167	Band 2	20M	1960	900		22.66	22.47	
CA_2C-12A	Band 2	20M	1880	1890	QPSK	1	0		Band 2	20M	1979.8	1098	Band 12	10M	737.5	5095		22.98	22.9	
	Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	Band 2	20M	1979.8	1098		22.63	22.86	
CA_2C4-12A	Band 2	20M	1880	1890	QPSK	1	0	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	Band 12	10M	737.5	5095		22.98	22.9
	Band 12	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	22.63	22.86
CA_2C-66A	Band 2	20M	1880	1890	QPSK	1	0		Band 2	20M	1979.8	1098	Band 66	20M	2155	68886		22.94	22.9	
	Band 66	20M	1745	133322	QPSK	1	0		Band 2	20M	1960	900	Band 2	20M	1979.8	1098		23.09	22.98	
CA_2A-66B	Band 2	20M	1880	1890	QPSK	1	0		Band 66	15M	2155	68886	Band 66	5M	2164.3	2248		23.01	22.9	
	Band 66	15M	1745	133322	QPSK	1	0		Band 66	5M	2164.3	2248	Band 2	20M	1960	900		22.85	22.65	
CA_2A-66C	Band 2	20M	1880	1890	QPSK	1	0		Band 66	20M	2155	68886	Band 66	20M	2174.8	2353		22.97	22.9	
	Band 66	20M	1745	133322	QPSK	1	0		Band 66	20M	2174.8	2353	Band 2	20M	1960	900		23.06	22.98	
CA_2A-2A-66A	Band 2	20M	1880	1890	QPSK	1	0		Band 2	5M	1987.5	1175	Band 66	20M	2155	68886		22.85	22.9	
	Band 66	20M	1745	133322	QPSK	1	0		Band 2	20M	1960	900	Band 2	5M	1987.5	1175		23.11	22.98	
CA_2A-2A-71A	Band 2	20M	1880	1890	QPSK	1	0		Band 2	5M	1987.5	1175	Band 71	20M	637	68786		22.98	22.9	
	Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	Band 2	5M	1987.5	1175		22.73	23.22	
CA_2A4-2A4-71A	Band 2	20M	1880	1890	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 71	20M	637	68786		22.98	22.9
	Band 71	20M	683	133322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	22.73	23.22
CA_2A-66A-66A	Band 2	20M	1880	1890	QPSK	1	0		Band 66	20M	2155	68886	Band 66	5M	2197.5	67311		22.84	22.9	
	Band 66	20M	1745	133322	QPSK	1	0		Band 66	5M	2197.5	67311	Band 2	20M	1960	900		23.08	22.98	
CA_4A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375	Band 5	10M	881.5	2525		23.08	22.97	
	Band 5	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375		22.53	22.81	
CA_4A4-4A4-5A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 5	10M	881.5	2525		23.08	22.97
	Band 5	10M	836.5	20525	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	22.53	22.81
CA_4A-4A-71A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375	Band 71	20M	637	68786		23.03	22.97	
	Band 71	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375		22.71	23.22	
CA_4A4-4A4-71A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 71	20M	637	68786		23.03	22.97
	Band 71	20M	683	133322	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	22.71	23.22
CA_4A-4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375	Band 12	10M	737.5	5095		23.04	22.97	
	Band 12	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375		22.59	22.86	
CA_4A4-4A4-12A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 12	10M	737.5	5095		23.04	22.97
	Band 12	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	22.59	22.86
CA_25A-25A-26A	Band 25	20M	1880	26340	QPSK	1	0		Band 25	5M	1960	8340	Band 26	10M	876.5	8865		23.05	22.92	
	Band 26	10M	831.5	26865	QPSK	1	0		Band 25	20M	1960	8340	Band 25	5M	1960	8340		22.61	22.5	
CA_25A4-25A4-26A	Band 25	20M	1880	26340	QPSK	1	0	4xMIMO	Band 25	5M	1960	8340	4xMIMO	Band 26	10M	876.5	8865		23.05	22.92
	Band 26	10M	831.5	26865	QPSK	1	0	4xMIMO	Band 25	20M	1960	8340	4xMIMO	Band 25	5M	1960	8340	4xMIMO	22.61	22.5
CA_4A-12B	Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	5M	737.5	5095	Band 12	10M	744.7	5167		23.11	22.97	
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167	Band 4	20M	2132.5	2175		22.63	22.86	
CA_4A4-12B	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 12	5M	737.5	5095	Band 12	10M	744.7	5167		23.11	22.97	
	Band 12	5M	707.5	23095	QPSK	1	0	4xMIMO	Band 12	10M	744.7	5167	Band 4	20M	2132.5	2175		22.63	22.86	
CA_5A-12B	Band 5	10M	836.5	20525	QPSK	1	0		Band 12	5M	737.5	5095	Band 12	10M	744.7	509.5		22.55	22.81	
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167	Band 5	10M	881.5	2525		22.66	22.86	
CA_12A-6A-66A	Band 12	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	68886	Band 66	5M	2197.5	67311		22.61	22.86	



4CA DL

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

Configure	PCC								SCC1				SCC2				SCC3				Power					
	LTE	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	(MHz)	Freq. (MHz)	Channel		RB	Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)	
Inter-Band	CA_2A-4A-1B	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 12	5M	737.5	5095		Band 12	10M	2132.5	2525		22.89	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 2	20M	1960	900		Band 12	5M	737.5	5095		Band 12	10M	2132.5	2525		23.1	22.97
		Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 4	20M	2132.5	2175		Band 2	20M	1960	900		22.64	22.47
	CA_2A-4A-1B	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	2132.5	2175	4x4MIMO	Band 12	5M	737.5	5095	4x4MIMO	Band 12	10M	2132.5	2525	4x4MIMO	22.89	22.9
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	5M	737.5	5095	4x4MIMO	Band 12	10M	2132.5	2525	4x4MIMO	23.1	22.97
		Band 12	5M	707.5	23095	QPSK	1	0	4x4MIMO	Band 12	10M	744.7	5167	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.64	22.47
	CA_2A-12A-6B	Band 2	20M	1880	18900	QPSK	1	0		Band 12	10M	737.5	5095		Band 66	20M	2155	66886		Band 66	20M	737.5	5095		22.23	22.9
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 66	20M	2155	66886		Band 66	20M	1979.8	1098		22.88	22.86
		Band 66	20M	1745	132322	QPSK	1	0		Band 66	20M	2174.8	67084		Band 2	20M	1960	900		Band 12	10M	737.5	5095		22.8	22.98
	CA_2A-12A-6B	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	737.5	5095	4x4MIMO	22.23	22.9
		Band 12	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	1979.8	1098	4x4MIMO	22.88	22.86
		Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	22.8	22.98
CA_2A-6B-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 71	20M	637	68786		Band 66	20M	2155	66886		Band 66	20M	656.8	68984		23.1	22.9	
	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	656.8	68984	4x4MIMO	23.1	22.9	
	Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	22.87	22.98	
CA_2A-6B-71A	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	656.8	68984	4x4MIMO	23.1	22.9	
	Band 71	20M	683	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	1979.8	1098	4x4MIMO	23.06	23.22	
	Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	22.87	22.98	

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

Configure	PCC								SCC1				SCC2				SCC3				Power					
	LTE	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	(MHz)	Freq. (MHz)	Channel		RB	Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)	
Intra-Band	CA_2A-2A-1B	Band 2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		Band 12	5M	737.5	5095		Band 12	10M	2132.5	2175		23.11	22.9
		Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 2	20M	1960	900		Band 2	5M	1987.5	1175		22.64	22.47
		Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	5M	737.5	5095	4x4MIMO	Band 12	10M	2132.5	2175	4x4MIMO	23.11	22.9
	CA_2A-2A-1B	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 2	20M	1960	900		Band 2	5M	1987.5	1175		22.64	22.47
		Band 2	20M	1880	18900	QPSK	1	0		Band 2	20M	1979.8	1098		Band 66	20M	2155	66886		Band 66	20M	2197.5	67311		22.91	22.9
		Band 66	20M	1745	132322	QPSK	1	0		Band 66	20M	2197.5	67311		Band 2	20M	1960	900		Band 2	20M	1979.8	1098		22.23	22.98
	CA_2C-6B-6B	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2197.5	67311	4x4MIMO	22.23	22.9
		Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	22.23	22.98
		Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	1979.8	1098	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	1979.8	1098	4x4MIMO	22.89	22.9
	CA_2A-2A-6B	Band 2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		Band 66	15M	2155	66886		Band 66	5M	1987.5	1388		22.96	22.9
		Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	1987.5	1388	4x4MIMO	22.96	22.9
		Band 66	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.85	22.85
CA_2A-2A-6B	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	1987.5	1388	4x4MIMO	22.96	22.9	
	Band 66	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.85	22.85	
	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	1987.5	1388	4x4MIMO	22.96	22.9	
CA_2A-2A-6B	Band 2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		Band 66	20M	2155	66886		Band 66	20M	2007.3	1373		22.94	22.9	
	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2007.3	1373	4x4MIMO	22.94	22.9	
	Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.86	22.98	
CA_2A-2A-6B	Band 2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		Band 66	20M	2155	66886		Band 66	20M	2007.3	1373		22.94	22.9	
	Band 2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2007.3	1373	4x4MIMO	22.94	22.9	
	Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.86	22.98	
CA_12B-6B-6B	Band 2	20M	1880	18900	QPSK	1	0		Band 66	20M	2197.5	67311		Band 12	5M	737.5	5095		Band 12	10M	2132.5	2175		22.64	22.47	
	Band 12	5M	707.5	23095	QPSK	1	0		Band 66	20M	2197.5	67311	4x4MIMO	Band 12	10M	744.7	5167		Band 66	5M	2197.5	67311	4x4MIMO	22.64	22.47	
	Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2197.5	67311	4x4MIMO	Band 12	10M	744.7	5167	4x4MIMO	Band 12	10M	2132.5	2175	4x4MIMO	22.64	22.47	
CA_2A-4A-1D	Band 25	20M	2953	40620	QPSK	1	0		Band 41	20M	2612.8	2791		Band 41	20M	2612.8	2989		Band 41	20M	2632.6	2989		22.75	22.92	
	Band 25	20M	2953	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	2791	4x4MIMO	Band 41	20M	2612.8	2989	4x4MIMO	Band 41	20M	2632.6	2989	4x4MIMO	22.75	22.92	
	Band 41	20M	2953	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8															





## Reduced Power Mode for Sensor On 2CA DL

Configure	CA List	PCC									SCC				Power	
		LTE	BW	UL		Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel		RB	Offset		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
Inter-Band	CA_2A-4A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		17.25	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 2	20M	1960	900		18.14	18.17
	CA_2A-5A	Band 2	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		17.13	17.14
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		22.32	22.40
	CA_2A-12A	Band 2	20M	1880	18900	QPSK	1	0		Band 12	10M	737.5	5095		17.10	17.14
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		22.85	22.86
	CA_2A-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66886		17.20	17.14
		Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		18.10	18.18
	CA_2A-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 71	20M	637	68786		17.05	17.14
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		23.15	23.22
	CA_4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		18.10	18.17
		Band 5	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175		22.31	22.40
	CA_4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	10M	737.5	5095		18.04	18.17
		Band 12	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175		22.66	22.86
	CA_4A-71A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 71	20M	637	68786		18.01	18.17
		Band 71	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175		23.14	23.22
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620		22.41	22.40
		Band 41	20M	2593	40620	QPSK	1	0		Band 5	10M	881.5	2525		19.24	19.25
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.35	22.40
		Band 41	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		19.17	19.25
	CA_12A-66A	Band 12	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886		22.85	22.86
		Band 66	20M	1745	132322	QPSK	1	0		Band 12	10M	737.5	5095		18.14	18.18
	CA_25A-26A	Band 25	20M	1880	26340	QPSK	1	0		Band 26	15M	876.5	8865		17.00	17.14
		Band 26	15M	831.5	26865	QPSK	1	0		Band 25	20M	1962.5	8365		22.42	22.59
	CA_25A-41A	Band 25	20M	1880	26340	QPSK	1	0		Band 41	20M	2593	40620		17.10	17.14
		Band 41	20M	2593	40620	QPSK	1	0		Band 25	20M	1962.5	8365		19.21	19.25
	CA_26A-41A	Band 26	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620		22.32	22.59
		Band 41	20M	2593	40620	QPSK	1	0		Band 26	15M	876.5	8865		19.20	19.25
	CA_66A-71A	Band 66	20M	1745	132322	QPSK	1	0		Band 71	20M	637	68786		18.11	18.18
		Band 71	20M	683	133322	QPSK	1	0		Band 66	20M	2145	66786		23.00	23.22
Intra-Band	CA_2C	Band 2	20M	1880	18900	QPSK	1	0		Band 2	20M	1979.8	1098		17.00	17.14
	CA_12B	Band 12	5M	701.5	23035	QPSK	1	0		Band 12	10M	741.2	5107		22.76	22.86
	CA_41C	Band 41	20M	2593	40620	QPSK	1	0		Band 41	20M	2612.8	2791		19.23	19.25
	CA_66B	Band 66	15M	1745	132322	QPSK	1	0		Band 66	5M	2164.3	66979		17.65	17.89
	CA_66C	Band 66	20M	1745	132322	QPSK	1	0		Band 66	20M	2174.8	67084		18.04	18.18
	CA_2A-2A	Band 2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		17.00	17.14
	CA_4A-4A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		18.01	18.17
	CA_25A-25A	Band 25	20M	1880	26340	QPSK	1	0		Band 25	5M	1992.5	8665		17.00	17.14
	CA_41A-41A	Band 41	20M	2593	40620	QPSK	1	0		Band 41	5M	2687.5	41565		19.15	19.25
	CA_66A-66A	Band 66	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		18.12	18.18

### 3CA DL

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

Configure		PCC							DL Antenna Configuration	SCC1				DL Antenna Configuration	SCC2				Power		
		LTE	BW	UL	UL	Mod.	UL#	UL		LTE	BW	DL	DL		LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel		RB	Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx Power (dBm)	Tx Power (dBm)
Inter-Band	CA_2A-4A-5A	Band 2	20M	1890	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 5	10M	881.5	2525		17.1	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		Band 2	20M	1960	900		18	18.17
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.32	22.4
	CA_2A4-4A4-5A	Band 2	20M	1890	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 5	10M	881.5	2525		17.1	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4xMIMO	18.12	18.17
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.21	22.4
	CA_2A-4A-12A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 12	10M	737.5	5095		17.02	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	10M	737.5	5095		Band 2	20M	1960	900		18.14	18.17
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.8	22.86
	CA_2A4-4A4-12A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 12	10M	737.5	5095		17.21	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095		Band 2	20M	1960	900	4xMIMO	18.03	18.17
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.81	22.86
	CA_2A-4A-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 71	20M	637	68786		17.12	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 71	20M	637	68786		Band 2	20M	1960	900		18.12	18.17
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		23.11	23.22
	CA_2A4-4A-71A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 71	20M	637	68786		17.1	17.14
		Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 71	20M	637	68786		Band 2	20M	1960	900	4xMIMO	18.15	18.17
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	23.12	23.22
	CA_2A-12A-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 12	10M	737.5	5095		Band 66	20M	2155	66886		17.05	17.14
		Band 12	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886		Band 2	20M	1960	900		22.82	22.86
		Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		Band 12	10M	737.5	5095		18.12	18.18



### 3CA DL

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

Configure	PCC						DL Antenna Configuration	SCC1				DL Antenna Configuration	SCC2				Power			
	LTE	BW	UL	UL	Mod.	UL#		UL	LTE	BW	DL		DL	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	(MHz)	Freq (MHz)	Channel		RB		RB Offset	Band	(MHz)	Freq (MHz)		Channel	Band	(MHz)	Freq (MHz)	Channel		Tx Power (dBm)	Tx Power (dBm)
CA_2A-2A-4A	Band 2	20M	1880	1890	QPSK	1	0		Band 2	5M	1987.5	2175		Band 4	20M	2132.5	2175		17.12	17.14
	Band 4	20M	1732.5	20175	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175		18.04	18.17
CA_2A-2A-4A-4A	Band 2	20M	1880	1890	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	17.02	17.14
	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	18.11	18.17
CA_2A-4A-4A	Band 2	20M	1880	1890	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375		17.08	17.14
	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		Band 2	20M	1960	900		18.1	18.17
CA_2A-4A-4A-4A	Band 2	20M	1880	1890	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375		22.98	22.9
	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		Band 2	20M	1960	900		23.16	22.97
CA_2A-2A-5A	Band 2	20M	1880	1890	QPSK	1	0		Band 2	5M	1987.5	1175		Band 5	10M	881.5	2525		17.1	17.14
	Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175		22.32	22.4
CA_2A-2A-4A-5A	Band 2	20M	1880	1890	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	17.12	17.14
	Band 5	10M	836.5	20525	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	22.12	22.4
CA_2A-2A-12A	Band 2	20M	1880	1890	QPSK	1	0		Band 2	5M	1987.5	1175		Band 12	10M	737.5	5095		17.12	17.14
	Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175		22.85	22.86
CA_2A-6A-71A	Band 2	20M	1880	1890	QPSK	1	0		Band 66	20M	2155	68886		Band 71	20M	637	68786		17.11	17.14
	Band 71	20M	683	133322	QPSK	1	0		Band 66	20M	2155	68886		Band 2	5M	1987.5	1175		23.12	23.22
CA_2A-12B	Band 2	20M	1880	1890	QPSK	1	0		Band 12	5M	737.5	5095		Band 12	10M	744.7	5167		17.1	17.14
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 2	20M	1960	900		22.42	22.47
CA_2A-12B	Band 2	20M	1880	1890	QPSK	1	0		Band 12	5M	737.5	5095		Band 12	10M	744.7	5167		22.94	22.9
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 2	20M	1960	900		22.66	22.47
CA_2C-12A	Band 2	20M	1880	1890	QPSK	1	0		Band 2	20M	1979.8	1098		Band 12	10M	737.5	5095		17.13	17.14
	Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 2	20M	1979.8	1098		22.84	22.86
CA_2C-12A	Band 2	20M	1880	1890	QPSK	1	0	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	17.11	17.14
	Band 12	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	22.81	22.86
CA_2C-6A	Band 2	20M	1880	1890	QPSK	1	0		Band 2	20M	1979.8	1098		Band 66	20M	2155	68886		17.13	17.14
	Band 66	20M	1745	133322	QPSK	1	0		Band 2	20M	1960	900		Band 2	20M	1979.8	1098		18.15	18.16
CA_2A-6A	Band 2	20M	1880	1890	QPSK	1	0		Band 66	15M	2164.3	68979		Band 66	5M	2164.3	68979		17.11	17.14
	Band 66	15M	1745	133322	QPSK	1	0		Band 66	5M	2164.3	68979		Band 2	20M	1960	900		17.86	17.89
CA_2A-6A	Band 2	20M	1880	1890	QPSK	1	0		Band 66	20M	2174.8	67084		Band 66	20M	2174.8	67084		17.12	17.14
	Band 66	20M	1745	133322	QPSK	1	0		Band 66	20M	2174.8	67084		Band 2	20M	1960	900		18.16	18.18
CA_2A-2A-6A	Band 2	20M	1880	1890	QPSK	1	0		Band 2	5M	1987.5	1175		Band 66	20M	2155	68886		17.12	17.14
	Band 66	20M	1745	133322	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175		18.16	18.18
CA_2A-2A-71A	Band 2	20M	1880	1890	QPSK	1	0		Band 2	5M	1987.5	1175		Band 71	20M	637	68786		17.11	17.14
	Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175		23.12	23.22
CA_2A-2A-71A	Band 2	20M	1880	1890	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 71	20M	637	68786	4xMIMO	17.11	17.14
	Band 71	20M	683	133322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	23.12	23.22
CA_2A-6A-6A	Band 2	20M	1880	1890	QPSK	1	0		Band 66	20M	2155	68886		Band 66	5M	2197.5	67311		17.1	17.14
	Band 66	20M	1745	133322	QPSK	1	0		Band 66	5M	2197.5	67311		Band 2	20M	1960	900		18.16	18.18
CA_4A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		Band 5	10M	881.5	2525		18.14	18.17
	Band 5	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375		22.32	22.4
CA_4A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	17.11	18.17
	Band 5	10M	836.5	20525	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	22.12	22.4
CA_4A-4A-71A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		Band 71	20M	637	68786		18.14	18.17
	Band 71	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375		23.2	23.22
CA_4A-4A-71A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 71	20M	637	68786	4xMIMO	18.14	18.17
	Band 71	20M	683	133322	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	23.12	23.22
CA_4A-4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		Band 12	10M	737.5	5095		18.11	18.17
	Band 12	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375		22.82	22.86
CA_4A-4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	18.15	18.17
	Band 12	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	22.69	22.86
CA_25A-25A-26A	Band 25	20M	1880	26340	QPSK	1	0		Band 25	5M	1960	8340		Band 26	10M	876.5	8865		17.1	17.14
	Band 26	10M	831.5	26865	QPSK	1	0		Band 25	20M	1960	8340		Band 25	5M	1960	8340		22.12	22.15
CA_25A-25A-26A	Band 25	20M	1880	26340	QPSK	1	0	4xMIMO	Band 25	5M	1960	8340	4xMIMO	Band 26	10M	876.5	8865	4xMIMO	17.12	17.14
	Band 26	10M	831.5	26865	QPSK	1	0	4xMIMO	Band 25	20M	1960	8340	4xMIMO	Band 25	5M	1960	8340	4xMIMO	22.12	22.15
CA_4A-12B	Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	5M	737.5	5095		Band 12	10M	744.7	5167		18.14	18.17
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 4	20M	2132.5	2175		22.82	22.86
CA_4A-12B	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 12	5M	737.5	5095	4xMIMO	Band 12	10M	744.7	5167	4xMIMO	18.15	18.17
	Band 12	5M	707.5	23095	QPSK	1	0	4xMIMO	Band 12	10M	744.7	5167	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.92	22.86
CA_5A-12B	Band 5	10M	836.5	20525	QPSK	1	0		Band 12	5M	737.5	5095		Band 12	10M	744.7	5167		22.33	22.4
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 5	10M	881.5	2525		22.82	22.86
CA_12A-6A-6A	Band 12</																			



4CA DL

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

Configure	POC							SCC1							SCC2				SCC3				Power			
	LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA					
	Band	(MHz)	Freq (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq (MHz)	Channel	Band	(MHz)	Freq (MHz)	Channel	Band	(MHz)	Freq (MHz)	Channel	Tx Power (dBm)	Tx Power (dBm)					
Inter-Band	CA_2A-4A-12B	Band 2	20M	1880	18900	GPSP	1	0	Band 4	20M	2132.5	2175	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2525	17.12	17.14				
		Band 4	20M	1732.5	20175	GPSP	1	0	Band 2	20M	1960	900	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2525	18.16	18.17				
		Band 12	5M	707.5	23095	GPSP	1	0	Band 12	10M	744.7	5167	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	22.42	22.47				
	CA_2A-4A-12B	Band 2	20M	1880	18900	GPSP	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2525	17.19	17.14		
		Band 4	20M	1732.5	20175	GPSP	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2525	18.21	18.17		
		Band 12	5M	707.5	23095	GPSP	1	0	4x4MIMO	Band 12	10M	744.7	5167	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 2	20M	1960	900	22.34	22.47	
	Inter-Band	CA_2A-12A-66C	Band 2	20M	1880	18900	GPSP	1	0	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	Band 66	20M	757.3	5293	17.21	17.14			
			Band 12	10M	707.5	23095	GPSP	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	Band 66	20M	1979.8	1098	22.86	22.86			
			Band 66	20M	1745	132322	GPSP	1	0	Band 66	20M	2174.8	67084	Band 2	20M	1960	900	Band 12	10M	737.5	5095	18.1	18.18			
		CA_2A-12A-66C	Band 2	20M	1880	18900	GPSP	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	757.3	5293	17.07	17.14
			Band 12	10M	707.5	23095	GPSP	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	1979.8	1098	22.76	22.86
			Band 66	20M	1745	132322	GPSP	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095	18.11	18.18
CA_2A-66C-71A		Band 2	20M	1880	18900	GPSP	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	Band 66	20M	1979.8	1098	23.06	23.22				
		Band 71	20M	683	133322	GPSP	1	0	Band 66	20M	2174.8	67084	Band 66	20M	2155	66886	Band 66	20M	1979.8	1098	18.1	18.18				
		Band 66	20M	1745	132322	GPSP	1	0	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	656.8	66984	17.09	17.14	
CA_2A-66C-71A		Band 2	20M	1880	18900	GPSP	1	0	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	656.8	66984	23.12	23.22	
		Band 71	20M	683	133322	GPSP	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	1979.8	1098	18.04	18.18	
		Band 66	20M	1745	132322	GPSP	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 71	20M	637	68786			

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

Configure	POC							SCC1							SCC2				SCC3				Power			
	LTE	BW	UL	UL	Mod.	UL#	UL	LTE	BW	DL	DL	LTE	BW	DL	DL	LTE	BW	DL	DL	With CA	Without CA					
	Band	(MHz)	Freq (MHz)	Channel		RB	RB Offset	Band	(MHz)	Freq (MHz)	Channel	Band	(MHz)	Freq (MHz)	Channel	Band	(MHz)	Freq (MHz)	Channel	Tx Power (dBm)	Tx Power (dBm)					
Inter-Band	CA_2A-2A-12B	Band 2	20M	1880	18900	GPSP	1	0	Band 2	5M	1987.5	1175	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2175	17.11	17.14				
		Band 12	5M	707.5	23095	GPSP	1	0	Band 12	10M	744.7	5167	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	22.44	22.47				
		Band 2	20M	1880	18900	GPSP	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2175	17.1	17.14		
	CA_2C-66A-66A	Band 2	5M	707.5	23095	GPSP	1	0	Band 12	10M	744.7	5167	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.31	22.47		
		Band 2	20M	1880	18900	GPSP	1	0	Band 66	20M	2197.5	67311	Band 66	20M	2155	66886	Band 66	20M	2197.5	67311	17.12	17.14				
		Band 66	20M	1745	132322	GPSP	1	0	Band 66	5M	2197.5	67311	Band 2	20M	1960	900	Band 2	20M	1979.8	1098	18.11	18.18				
	Inter-Band	CA_2A-2A-66B	Band 2	20M	1880	18900	GPSP	1	0	Band 2	5M	1987.5	1175	Band 2	20M	1960	900	Band 2	20M	2197.5	67311	4x4MIMO	17.12	17.14		
			Band 12	5M	707.5	23095	GPSP	1	0	Band 66	20M	2197.5	67311	Band 66	20M	2155	66886	Band 66	20M	2197.5	67311	18.02	18.18			
			Band 66	20M	1745	132322	GPSP	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	17.85	17.89	
		CA_2A-2A-66B	Band 2	20M	1880	18900	GPSP	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	15M	2165	66886	4x4MIMO	Band 66	5M	1987.5	1175	17.02	17.14
			Band 12	5M	707.5	23095	GPSP	1	0	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	17.69	17.89	
			Band 66	20M	1745	132322	GPSP	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2007.3	1373	17.12	17.14
CA_2A-2A-66C		Band 2	20M	1880	18900	GPSP	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	18.12	18.18		
		Band 66	20M	1745	132322	GPSP	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2007.3	1373	17.1	17.14	
		Band 66	20M	1745	132322	GPSP	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	18.12	18.18		
CA_12B-66A-66A		Band 2	20M	1880	18900	GPSP	1	0	Band 66	20M	2197.5	67311	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2175	18.13	18.18				
		Band 12	5M	707.5	23095	GPSP	1	0	Band 12	10M	744.7	5167	Band 66	20M	2197.5	67311	Band 66	20M	2197.5	67311	22.45	22.47				
		Band 66	20M	1745	132322	GPSP	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2175	18.11	18.18		
Inter-Band	CA_25A-41D	Band 12	5M	707.5	23095	GPSP	1	0	Band 12	10M	744.7	5167	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	5M	2197.5	67311	22.31	22.47			
		Band 25	20M	1880	26340	GPSP	1	0	Band 41	20M	2612.8	40818	Band 41	20M	2612.8	40818	Band 41	20M	2632.6	41016	17.11	17.14				
		Band 41	20M	2593	40620	GPSP	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 25	20M	1960	900	Band 25	20M	1960	900	19.21	19.25		
	CA_25A-41D	Band 25	20M	1880	26340	GPSP	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	17.12	17.14	
		Band 41	20M	2593	40620	GPSP	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 25	20M	1960	900	19.21	19.25	
		Band 41	20M	2593	40620	GPSP	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2632.6	41016	19.22	19.25	
	Inter-Band	CA_41C-41C	Band 41	20M	2593	40620	GPSP	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2632.6	41016	19.21	19.25
			Band 41	20M	2593	40620	GPSP	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2632.6	41016	19.19	19.25
			Band 41	20M	2593	40620	GPSP	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2632.6	41016	19.12	19.25
		CA_41E	Band 41	20M	2593	40620	GPSP	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2632.6	41016	19.23	19.25
			Band 41	20M	2593	40620	GPSP	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2632.6	41016	19.23	19.25
			Band 41	20M	2593	40620	GPSP	1	0	4x4MIMO	Band 41	20M	2612.8	40818												



### Reduced Power Mode for Hotspot on 2CA DL

Configure	CA List	PCC										SCC					Power	
		LTE	BW	UL		Mod.	UL#		DL Antenna Configuration	LTE	BW	DL		DL Antenna Configuration	With CA Tx Power (dBm)	Without CA Tx Power (dBm)		
				Freq. (MHz)	Channel		RB	UL				Freq. (MHz)	Channel					
Inter-Band	CA_2A-4A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		14.25	14.30		
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 2	20M	1960	900		15.80	15.85		
	CA_2A-5A	Band 2	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		14.21	14.30		
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		22.35	22.40		
	CA_2A-12A	Band 2	20M	1880	18900	QPSK	1	0		Band 12	10M	737.5	5095		14.21	14.30		
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		22.65	22.86		
	CA_2A-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66866		14.21	14.30		
		Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		15.75	15.81		
	CA_2A-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 71	20M	637	68786		14.21	14.30		
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		23.21	23.22		
	CA_4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		15.82	15.85		
		Band 5	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175		22.36	22.40		
	CA_4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	10M	737.5	5095		15.80	15.85		
		Band 12	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175		22.80	22.86		
	CA_4A-71A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 71	20M	637	68786		15.80	15.85		
		Band 71	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175		23.12	23.22		
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620		22.35	22.40		
		Band 41	20M	2593	40620	QPSK	1	0		Band 5	10M	881.5	2525		14.52	14.54		
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.31	22.40		
		Band 41	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		13.27	14.54		
	CA_12A-66A	Band 12	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66866		22.68	22.86		
		Band 66	20M	1745	132322	QPSK	1	0		Band 12	10M	737.5	5095		15.75	15.81		
	CA_25A-26A	Band 25	20M	1880	26340	QPSK	1	0		Band 26	15M	876.5	8665		15.16	15.18		
		Band 26	15M	831.5	26865	QPSK	1	0		Band 25	20M	1962.5	8365		22.43	22.59		
CA_25A-41A	Band 25	20M	1880	26340	QPSK	1	0		Band 41	20M	2593	40620		15.10	15.18			
	Band 41	20M	2593	40620	QPSK	1	0		Band 25	20M	1962.5	8365		14.51	14.54			
CA_26A-41A	Band 26	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620		22.43	22.59			
	Band 41	20M	2593	40620	QPSK	1	0		Band 26	15M	876.5	8665		14.52	14.54			
CA_2C	Band 2	20M	1880	18900	QPSK	1	0		Band 2	20M	1979.8	1098		14.25	14.30			
	Band 66	20M	1745	132322	QPSK	1	0		Band 71	20M	637	68786		15.80	15.81			
Intra-Band	CA_66A-71A	Band 71	20M	683	133322	QPSK	1	0		Band 66	20M	2145	66786		23.12	23.22		
		Band 12	5M	701.5	23035	QPSK	1	0		Band 12	10M	741.2	5107		22.81	22.86		
	CA_41C	Band 41	20M	2593	40620	QPSK	1	0		Band 41	20M	2612.8	2791		14.45	14.54		
		Band 66	15M	1745	132322	QPSK	1	0		Band 66	5M	2164.3	66979		15.51	15.58		
	CA_66C	Band 66	20M	1745	132322	QPSK	1	0		Band 66	20M	2174.8	67084		15.65	15.81		
		Band 2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		14.21	14.30		
	CA_4A-4A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		15.78	15.85		
		Band 25	20M	1880	26340	QPSK	1	0		Band 25	5M	1992.5	8665		15.00	15.18		
	CA_41A-41A	Band 41	20M	2593	40620	QPSK	1	0		Band 41	5M	2687.5	41565		14.32	14.54		
		Band 66	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		15.65	15.81		

### 3CA DL

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

Configure		PCC							DL Antenna Configuration	SCC1				DL Antenna Configuration	SCC2				Power		
		LTE	BW	UL		Mod.	UL#	UL		LTE	BW	DL	DL		LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx Power (dBm)	Tx Power (dBm)
Inter-Band	CA_2A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 5	10M	881.5	2525		14.21	14.3
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		Band 2	20M	1960	900		15.82	15.85
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.32	22.4
	CA_2A4-4A4-5A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 5	10M	881.5	2525		14.21	14.3
		Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4xMIMO	15.82	15.85
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.32	22.4
	CA_2A-4A-12A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 12	10M	737.5	5095		14.26	14.3
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	10M	737.5	5095		Band 2	20M	1960	900		15.8	15.85
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.81	22.86
	CA_2A4-4A4-12A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 12	10M	737.5	5095		14.21	14.3
		Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095		Band 2	20M	1960	900	4xMIMO	15.82	15.85
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.91	22.86
	CA_2A-4A-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 71	20M	637	68786		14.21	14.3
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 71	20M	637	68786		Band 2	20M	1960	900		15.82	15.85
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		23.12	23.22
	CA_2A4-4A4-71A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 71	20M	637	68786		14.23	14.3
		Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 71	20M	637	68786		Band 2	20M	1960	900	4xMIMO	15.82	15.85
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	23.21	23.22
	CA_2A-12A-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 12	10M	737.5	5095		Band 66	20M	2155	66886		14.26	14.3
		Band 12	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886		Band 2	20M	1960	900		22.82	22.86
		Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		Band 12	10M	737.5	5095		15.8	15.81



### 3CA DL

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

Configure	PCC							DL Antenna Configuration	SCC1				DL Antenna Configuration	SCC2				DL Antenna Configuration	Power	
	LTE	BW	UL	UL	Mod.	UL#	UL		LTE	BW	DL	DL		LTE	BW	DL	DL		With CA	Without CA
	Band	(MHz)	Freq. (MHz)	Channel		RB	Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_2A-2A-4A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 2	20M	2132.5	2175	14.23	14.3	
	Band 4	20M	1732.5	20175	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175	15.82	15.85	
CA_2A-2A-4A-4A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 2	20M	2132.5	2175	14.21	14.3	
	Band 4	20M	1732.5	20175	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175	15.82	15.85	
CA_2A-4A-4A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	14.21	14.3	
	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		Band 2	20M	1960	900	15.82	15.85	
CA_2A-4A-4A-4A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	14.29	14.3	
	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		Band 2	20M	1960	900	15.82	15.85	
CA_2A-2A-5A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525	14.21	14.3	
	Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175	22.32	22.4	
CA_2A-2A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525	14.13	14.3	
	Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175	22.12	22.4	
CA_2A-2A-12A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 12	10M	737.5	5095	14.21	14.3	
	Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175	22.82	22.86	
CA_2A-6A-71A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 71	20M	637	68786	14.31	14.3	
	Band 71	20M	683	133322	QPSK	1	0		Band 66	20M	2155	66886		Band 2	5M	1987.5	1175	23.12	23.22	
CA_2A-12B	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 12	5M	737.5	5095	4xMIMO	Band 12	10M	744.7	5167	14.21	14.3	
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 2	20M	1960	900	22.31	22.47	
CA_2A-4-12B	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 12	5M	737.5	5095	4xMIMO	Band 12	10M	744.7	5167	14.21	14.3	
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 2	20M	1960	900	22.31	22.47	
CA_2C-12A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	Band 12	10M	737.5	5095	14.26	14.3	
	Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 2	20M	1979.8	1098	22.75	22.86	
CA_2C-12A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	Band 12	10M	737.5	5095	14.21	14.3	
	Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 2	20M	1979.8	1098	22.86	22.86	
CA_2C-6A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	Band 66	20M	2155	66886	14.21	14.3	
	Band 66	20M	1745	133322	QPSK	1	0		Band 2	20M	1960	900		Band 2	20M	1979.8	1098	15.8	15.81	
CA_2A-66B	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 66	15M	2164.3	66979	4xMIMO	Band 66	5M	2164.3	66979	14.26	14.3	
	Band 66	15M	1745	133322	QPSK	1	0		Band 66	5M	2164.3	66979		Band 2	20M	1960	900	15.45	15.58	
CA_2A-66C	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	20M	2174.8	67084	14.23	14.3	
	Band 66	20M	1745	133322	QPSK	1	0		Band 66	20M	2174.8	67084		Band 2	20M	1960	900	15.78	15.81	
CA_2A-2A-66A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 66	20M	2155	66886	14.21	14.3	
	Band 66	20M	1745	133322	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175	15.8	15.81	
CA_2A-2A-71A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 71	20M	637	68786	14.23	14.3	
	Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175	23.2	23.22	
CA_2A-2A-71A-71A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 71	20M	637	68786	14.21	14.3	
	Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175	22.12	23.22	
CA_2A-66A-66A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	14.21	14.3	
	Band 66	20M	1745	133322	QPSK	1	0		Band 66	5M	2197.5	67311		Band 2	20M	1960	900	15.8	15.81	
CA_4A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 5	10M	881.5	2525	15.82	15.85	
	Band 5	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375	22.31	22.4	
CA_4A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 5	10M	881.5	2525	15.82	15.85	
	Band 5	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375	22.31	22.4	
CA_4A-4A-71A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 71	20M	637	68786	15.82	15.85	
	Band 71	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375	23.18	23.22	
CA_4A-4A-71A-71A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 71	20M	637	68786	15.82	15.85	
	Band 71	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375	23.21	23.22	
CA_4A-4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 12	10M	737.5	5095	15.8	15.85	
	Band 12	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375	22.82	22.86	
CA_4A-4A-12A-12A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 12	10M	737.5	5095	15.72	15.81	
	Band 12	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375	22.92	22.86	
CA_25A-25A-26A	Band 25	20M	1880	26340	QPSK	1	0	4xMIMO	Band 25	5M	1960	8340	4xMIMO	Band 26	10M	876.5	8865	15.12	15.18	
	Band 26	10M	831.5	26865	QPSK	1	0		Band 25	20M	1960	8340		Band 25	5M	1960	8340	22.12	22.15	
CA_25A-25A-4-26A	Band 25	20M	1880	26340	QPSK	1	0	4xMIMO	Band 25	5M	1960	8340	4xMIMO	Band 26	10M	876.5	8865	15.12	15.18	
	Band 26	10M	831.5	26865	QPSK	1	0		Band 25	20M	1960	8340		Band 25	5M	1960	8340	22.12	22.15	
CA_4A-12B	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 12	5M	737.5	5095	4xMIMO	Band 12	10M	744.7	5167	15.82	15.85	
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 4	20M	2132.5	2175	22.82	22.86	
CA_4A-4-12B	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 12	5M	737.5	5095	4xMIMO	Band 12	10M	744.7	5167	15.82	15.85	
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 4	20M	2132.5	2175	22.82	22.86	
CA_5A-12B	Band 5	10M	836.5	20525	QPSK	1	0	4xMIMO	Band 12	5M	737.5	5095	4xMIMO	Band 12	10M	744.7	5167	22.32	22.4	
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 5	10M	881.5	2525	22.81	22.86	
CA_12A-66A-66A	Band 12	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 66	20M	2155	66886	4xMIMO	Band 66	5M	2197.5	67311	22.82	22.86	
	Band 66	20M	1745	133322	QPSK</															



4CA DL

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

Configure	PCC										SCC1						SCC2						SCC3						Power	
	LTE Band	BW (MHz)	UL Freq (MHz)	UL Channel	Mod.	UL#	UL RB	UL Offset	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	Tx. Power (dBm)	Without CA Tx. Power (dBm)								
																							UL#	UL RB	UL Offset	UL#	UL RB	UL Offset	UL#	UL RB
Inter-Band	CA_2A-4A-12B	Band 2	20M	1880	1890	QPSK	1	0	Band 4	20M	2132.5	2175	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2525	14.21	14.3								
		Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2525	15.8	15.85								
		Band 12	5M	707.5	23095	QPSK	1	0	Band 12	10M	744.7	5167	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	22.59	22.47								
	CA_2A-4A-15B	Band 2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2525	14.15	14.3						
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2525	15.68	15.85						
		Band 12	5M	707.5	23095	QPSK	1	0	4x4MIMO	Band 12	10M	744.7	5167	4x4MIMO	Band 4	20M	2132.5	2175	Band 2	20M	1960	900	22.31	22.47						
	CA_2A-12A-66C	Band 2	20M	1880	1890	QPSK	1	0	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	Band 66	20M	757.3	5293	14.28	14.30								
		Band 12	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	Band 66	20M	1979.8	1098	22.88	22.86								
		Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 2	20M	1960	900	Band 12	10M	737.5	5095	15.8	15.81								
	CA_2A-12A-66C	Band 2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	757.3	5293	14.21	14.30					
		Band 12	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	1979.8	1098	22.8	22.86					
		Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	Band 12	10M	737.5	5095	15.72	15.81						
CA_2A-66C-71A	Band 71	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	Band 66	20M	1979.8	1098	23.06	23.22									
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 2	20M	1960	900	Band 71	20M	637	68786	15.78	15.81									
	Band 2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	656.8	68984	14.21	14.3						
CA_2A-66C-71A	Band 71	20M	683	133322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	1979.8	1098	23.12	23.22						
	Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 71	20M	637	68786	15.78	15.81						

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

Configure	PCC										SCC1						SCC2						SCC3						Power	
	LTE Band	BW (MHz)	UL Freq (MHz)	UL Channel	Mod.	UL#	UL RB	UL Offset	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	Tx. Power (dBm)	Without CA Tx. Power (dBm)								
																							UL#	UL RB	UL Offset	UL#	UL RB	UL Offset	UL#	UL RB
Inter-Band	CA_2A-2A-12B	Band 2	20M	1880	1890	QPSK	1	0	Band 2	5M	1987.5	1175	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2175	14.21	14.3								
		Band 12	5M	707.5	23095	QPSK	1	0	Band 12	10M	744.7	5167	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	22.44	22.47								
		Band 2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2175	14.21	14.3						
	CA_2A-2A-12B	Band 12	5M	707.5	23095	QPSK	1	0	Band 12	10M	744.7	5167	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	2132.5	2175	14.21	14.3							
		Band 2	20M	1880	1890	QPSK	1	0	Band 2	20M	1979.8	1098	Band 66	20M	2155	66886	Band 66	20M	2197.5	67311	14.31	14.3								
		Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	15.78	15.81					
	CA_2C-26A-26A	Band 2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2197.5	67311	14.31	14.3					
		Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	15.92	15.81					
		Band 2	20M	1880	1890	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	15M	2155	66886	Band 66	5M	1996.8	1288	14.15	14.3								
	CA_2A-2A-66B	Band 66	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2184.3	66979	4x4MIMO	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	15.62	15.68						
		Band 2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	1996.8	1288	14.21	14.3					
		Band 66	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2184.3	66979	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	15.62	15.68					
CA_2A-2A-66B	Band 2	20M	1880	1890	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band 66	20M	2007.3	1373	14.26	14.3									
	Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	15.9	15.81								
	Band 2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2007.3	1373	14.35	14.3						
CA_2A-2A-66C	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	15.92	15.81									
	Band 2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2007.3	1373	14.35	14.3						
	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	5M	1987.5	1175	15.92	15.81							
CA_12B-66A-66A	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 12	5M	737.5	5095	Band 12	10M	2132.5	2175	15.82	15.81									
	Band 12	5M	707.5	23095	QPSK	1	0	Band 12	10M	744.7	5167	Band 66	5M	2197.5	67311	Band 66	5M	2197.5	67311	22.45	22.47									
	Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 12	5M	737.5	5095	4x4MIMO	Band 12	10M	2132.5	2175	15.71	15.81						
CA_12B-66A-66A	Band 12	5M	707.5	23095	QPSK	1	0	Band 12	10M	744.7	5167	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	5M	2197.5	67311	22.4	22.47								
	Band 66	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 12	10M	2132.5	2175	15.71	15.81						
	Band 12	5M	707.5	23095	QPSK	1	0	Band 12	10M	744.7	5167	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	5M	2197.5	67311	22.4	22.47								
Inter-Band	CA_25A41D	Band 25	20M	1880	26340	QPSK	1	0	Band 41	20M	25193	39675	Band 41	20M	2612.8	40818	Band 41	20M	2632.6	41016	15.19	15.18								
		Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 41	20M	2632.6	41016	Band 25	20M	1960	8340	14.62	14.54								
		Band 25	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	25193	39675	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	15.16	15.18					
	CA_25A41D	Band 41	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 25	20M	1960	8340	14.52	14.54					
		Band 25	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2632.6	41016	14.55	14.54					
		Band 41	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 41	20M	2632.6	41016	4x4MIMO	Band 41	20M	2632.6	41016	14.51	14.54					
	CA_41C41C	Band 41	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8																		





### Reduced Power Mode for Handheld on 2CA DL

Configure	CA List	PCC									SCC					Power	
		LTE	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
		Band	(MHz)	Freq. (MHz)	Channel		RB	Offset		Band	(MHz)	Freq. (MHz)	Channel		Tx Power (dBm)	Tx Power (dBm)	
Inter-Band	CA_2A-4A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		19.85	20.00	
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 2	20M	1960	900		21.43	21.59	
	CA_2A-5A	Band 2	20M	1880	18900	QPSK	1	0		Band 5	10M	881.5	2525		19.83	20.00	
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		22.76	22.81	
	CA_2A-12A	Band 2	20M	1880	18900	QPSK	1	0		Band 12	10M	737.5	5095		19.82	20.00	
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		22.77	22.86	
	CA_2A-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66886		19.83	20.00	
		Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		21.55	21.65	
	CA_2A-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 71	20M	637	68786		19.83	20.00	
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		23.12	23.22	
	CA_4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		21.48	21.59	
		Band 5	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175		22.87	22.81	
	CA_4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	10M	737.5	5095		21.44	21.59	
		Band 12	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175		22.80	22.86	
	CA_4A-71A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 71	20M	637	68786		21.39	21.59	
		Band 71	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175		23.09	23.22	
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620		22.75	22.81	
		Band 41	20M	2593	40620	QPSK	1	0		Band 5	10M	881.5	2525		23.43	23.98	
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	23.68	22.81	
		Band 41	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.41	23.98	
	CA_12A-66A	Band 12	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886		22.75	22.86	
		Band 66	20M	1745	132322	QPSK	1	0		Band 12	10M	737.5	5095		21.45	21.65	
	CA_25A-26A	Band 25	20M	1880	26340	QPSK	1	0		Band 26	15M	876.5	8665		20.30	20.26	
		Band 26	15M	831.5	26865	QPSK	1	0		Band 25	20M	1962.5	8365		22.97	22.94	
CA_25A-41A	Band 25	20M	1880	26340	QPSK	1	0		Band 41	20M	2593	40620		20.24	20.26		
	Band 41	20M	2593	40620	QPSK	1	0		Band 25	20M	1962.5	8365		23.09	23.98		
CA_26A-41A	Band 26	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620		23.05	22.94		
	Band 41	20M	2593	40620	QPSK	1	0		Band 26	15M	876.5	8665		23.41	23.98		
CA_2C	Band 2	20M	1880	18900	QPSK	1	0		Band 2	20M	1979.8	1098		19.89	20.00		
	Band 66	20M	1745	132322	QPSK	1	0		Band 71	20M	637	68786		22.86	22.98		
CA_66A-71A	Band 66	20M	1745	132322	QPSK	1	0		Band 71	20M	637	68786		22.86	22.98		
	Band 71	20M	683	133322	QPSK	1	0		Band 66	20M	2145	66786		23.12	23.22		
CA_12B	Band 12	5M	701.5	23035	QPSK	1	0		Band 12	10M	741.2	5107		22.23	22.86		
	Band 41	20M	2593	40620	QPSK	1	0		Band 41	20M	2612.8	2791		23.32	23.98		
CA_41C	Band 41	20M	2593	40620	QPSK	1	0		Band 41	20M	2612.8	2791		23.32	23.98		
	Band 66	15M	1745	132322	QPSK	1	0		Band 66	5M	2164.3	66979		21.25	21.28		
CA_66B	Band 66	15M	1745	132322	QPSK	1	0		Band 66	5M	2164.3	66979		21.25	21.28		
	Band 66	20M	1745	132322	QPSK	1	0		Band 66	20M	2174.8	67084		21.55	21.65		
CA_2A-2A	Band 2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		19.98	20.00		
	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		21.46	21.59		
CA_25A-25A	Band 25	20M	1880	26340	QPSK	1	0		Band 25	5M	1992.5	8665		20.16	20.26		
	Band 41	20M	2593	40620	QPSK	1	0		Band 41	5M	2687.5	41565		23.43	23.98		
CA_41A-41A	Band 41	20M	2593	40620	QPSK	1	0		Band 41	5M	2687.5	41565		23.43	23.98		
	Band 66	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		21.53	21.65		

### 3CA DL

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

Configure		PCC							DL Antenna Configuration	SCC1				DL Antenna Configuration	SCC2				Power		
		LTE	BW	UL		Mod.	UL#	UL		LTE	BW	DL	DL		LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
		Band	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx Power (dBm)	Tx Power (dBm)
Inter-Band	CA_2A-4A-5A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 5	10M	881.5	2525		19.85	20
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 5	10M	881.5	2525		Band 2	20M	1960	900		21.42	21.59
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.57	22.81
	CA_2A4-4A4-5A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 5	10M	881.5	2525		19.89	20
		Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4xMIMO	21.42	21.59
		Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.8	22.81
	CA_2A-4A-12A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 12	10M	737.5	5095		19.89	20
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	10M	737.5	5095		Band 2	20M	1960	900		21.43	21.59
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		22.8	22.86
	CA_2A4-4A4-12A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 12	10M	737.5	5095		19.89	20
		Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 12	10M	737.5	5095		Band 2	20M	1960	900	4xMIMO	21.43	21.59
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.82	22.86
	CA_2A-4A-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 71	20M	637	68786		19.92	20
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 71	20M	637	68786		Band 2	20M	1960	900		21.43	21.59
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 4	20M	2132.5	2175		23.12	23.22
	CA_2A4-4A4-71A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 71	20M	637	68786		19.82	20
		Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 71	20M	637	68786		Band 2	20M	1960	900	4xMIMO	21.43	21.59
		Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	23.15	23.22
	CA_2A-12A-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 12	10M	737.5	5095		Band 66	20M	2155	66886		19.92	20
		Band 12	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886		Band 2	20M	1960	900		22.68	22.86
		Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		Band 12	10M	737.5	5095		21.56	21.65



### 3CA DL

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

Configure	PCC							SCC1							SCC2							Power	
	LTE	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA			
	Band	(MHz)	Freq. (MHz)	Channel		RB	Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)			
CA_2A-2A-4A	Band 2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		Band 4	20M	2132.5	2175		19.98	20			
	Band 4	20M	1732.5	20175	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175		21.45	21.59			
CA_2A-2A-4A-4A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.85	22.9			
	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	22.11	22.97			
CA_2A-4A-4A	Band 2	20M	1880	18900	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375		19.89	20			
	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		Band 2	20M	1960	900		21.45	21.59			
CA_2A-4A-4A-4A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	19.89	20			
	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 2	20M	1960	900	4xMIMO	21.48	21.59			
CA_2A-2A-5A	Band 2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		Band 5	10M	881.5	2525		19.88	20			
	Band 5	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175		22.58	22.81			
CA_2A-2A-5A-5A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	19.83	20			
	Band 5	10M	836.5	20525	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	22.8	22.81			
CA_2A-2A-12A	Band 2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		Band 12	10M	737.5	5095		19.91	20			
	Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175		22.83	22.86			
CA_2A-6A-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66886		Band 71	20M	637	68786		19.89	20			
	Band 71	20M	683	133322	QPSK	1	0		Band 66	20M	2155	66886		Band 2	5M	1987.5	1175		23.21	23.22			
CA_2A-12B	Band 2	20M	1880	18900	QPSK	1	0		Band 12	5M	737.5	5095		Band 12	10M	744.7	5167		19.97	20			
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 2	20M	1960	900		22.39	22.47			
CA_2A-12B-12B	Band 2	20M	1880	18900	QPSK	1	0		Band 12	5M	737.5	5095		Band 12	10M	744.7	5167		19.89	20			
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 2	20M	1960	900		22.34	22.47			
CA_2C-12A	Band 2	20M	1880	18900	QPSK	1	0		Band 2	20M	1979.8	1098		Band 12	10M	737.5	5095		19.89	20			
	Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 2	20M	1979.8	1098		22.84	22.86			
CA_2C-12A-12A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	19.89	20			
	Band 12	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	20M	1979.8	1098	4xMIMO	22.72	22.86			
CA_2C-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 2	20M	1979.8	1098		Band 66	20M	2155	66886		19.92	20			
	Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		Band 2	20M	1979.8	1098		21.6	21.65			
CA_2A-66B	Band 2	20M	1880	18900	QPSK	1	0		Band 66	15M	2155	66886		Band 66	5M	2164.3	66979		19.92	20			
	Band 66	15M	1745	132322	QPSK	1	0		Band 66	5M	2164.3	66979		Band 2	20M	1960	900		21.2	21.28			
CA_2A-66C	Band 2	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66886		Band 66	20M	2174.8	67084		19.93	20			
	Band 66	20M	1745	132322	QPSK	1	0		Band 66	20M	2174.8	67084		Band 2	20M	1960	900		21.61	21.65			
CA_2A-2A-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		Band 66	20M	2155	66886		19.95	20			
	Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175		21.55	21.65			
CA_2A-2A-71A	Band 2	20M	1880	18900	QPSK	1	0		Band 2	5M	1987.5	1175		Band 71	20M	637	68786		19.93	20			
	Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 2	5M	1987.5	1175		23.21	23.22			
CA_2A-2A-71A-71A	Band 2	20M	1880	18900	QPSK	1	0	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	Band 71	20M	637	68786	4xMIMO	19.83	20			
	Band 71	20M	683	133322	QPSK	1	0	4xMIMO	Band 2	20M	1960	900	4xMIMO	Band 2	5M	1987.5	1175	4xMIMO	23.12	23.22			
CA_2A-66A-66A	Band 2	20M	1880	18900	QPSK	1	0		Band 66	20M	2155	66886		Band 66	5M	2197.5	67311		19.82	20			
	Band 66	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		Band 2	20M	1960	900		21.69	21.65			
CA_4A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		Band 4	5M	2152.5	2375		21.63	21.59			
	Band 5	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375		22.53	22.81			
CA_4A-4A-5A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 5	10M	881.5	2525	4xMIMO	21.43	21.59			
	Band 5	10M	836.5	20525	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	22.8	22.81			
CA_4A-4A-71A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		Band 71	20M	637	68786		21.6	21.59			
	Band 71	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375		23.32	23.22			
CA_4A-4A-71A-71A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 71	20M	637	68786	4xMIMO	21.43	21.59			
	Band 71	20M	683	133322	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	23.12	23.22			
CA_4A-4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0		Band 4	5M	2152.5	2375		Band 12	10M	737.5	5095		21.55	21.59			
	Band 12	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175		Band 4	5M	2152.5	2375		22.85	22.86			
CA_4A-4A-12A-12A	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	Band 12	10M	737.5	5095	4xMIMO	21.48	21.59			
	Band 12	10M	707.5	23095	QPSK	1	0	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	Band 4	5M	2152.5	2375	4xMIMO	22.8	22.86			
CA_25A-25A-26A	Band 25	20M	1880	26340	QPSK	1	0		Band 25	5M	1960	8340		Band 26	10M	876.5	8865		20.3	20.26			
	Band 26	10M	831.5	26865	QPSK	1	0		Band 25	20M	1960	8340		Band 25	5M	1960	8340		22.61	22.5			
CA_25A-25A-26A-26A	Band 25	20M	1880	26340	QPSK	1	0	4xMIMO	Band 25	5M	1960	8340	4xMIMO	Band 26	10M	876.5	8865	4xMIMO	20.21	20.26			
	Band 26	10M	831.5	26865	QPSK	1	0	4xMIMO	Band 25	20M	1960	8340	4xMIMO	Band 25	5M	1960	8340	4xMIMO	22.43	22.5			
CA_4A-12B	Band 4	20M	1732.5	20175	QPSK	1	0		Band 12	5M	737.5	5095		Band 12	10M	744.7	5167		21.49	21.59			
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 4	20M	2132.5	2175		22.8	22.86			
CA_4A-12B-12B	Band 4	20M	1732.5	20175	QPSK	1	0	4xMIMO	Band 12	5M	737.5	5095	4xMIMO	Band 12	10M	744.7	5167	4xMIMO	21.5	21.59			
	Band 12	5M	707.5	23095	QPSK	1	0	4xMIMO	Band 12	10M	744.7	5167	4xMIMO	Band 4	20M	2132.5	2175	4xMIMO	22.82	22.86			
CA_5A-12B	Band 5	10M	836.5	20525	QPSK	1	0		Band 12	5M	737.5	5095		Band 12	10M	744.7	5167		22.56	22.81			
	Band 12	5M	707.5	23095	QPSK	1																	



4CA DL

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

Configure	PCC								SCC1				SCC2				SCC3				Power					
	LTE	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	(MHz)	Freq. (MHz)	Channel					RB	Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel
Inter-Band	CA_2A-4A-12B	Band 2	20M	1880	1890	QPSK	1	0		Band 4	20M	2132.5	2175		Band 12	5M	737.5	5095		Band 12	10M	2132.5	2525		19.99	20
		Band 4	20M	1732.5	20175	QPSK	1	0		Band 2	20M	1960	900		Band 12	5M	737.5	5095		Band 12	10M	2132.5	2525		21.62	21.59
		Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 4	20M	2132.5	2175		Band 2	20M	1960	900		22.26	22.47
	CA_2A-4A-15B	Band 2	20M	1880	1890	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 12	5M	737.5	5095		Band 12	10M	2132.5	2525		19.82	20
		Band 4	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 2	20M	1960	900	4x4MMIMO	Band 12	5M	737.5	5095		Band 12	10M	2132.5	2525	4x4MMIMO	22.43	21.59
		Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 4	20M	2132.5	2175	4x4MMIMO	Band 2	20M	1960	900	4x4MMIMO	22.41	22.47
	CA_2A-12A-66C	Band 2	20M	1880	1890	QPSK	1	0		Band 12	10M	737.5	5095		Band 66	20M	2155	66886		Band 66	20M	757.3	5293		19.89	20.00
		Band 12	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900		Band 66	20M	2155	66886		Band 66	20M	1979.8	1098		22.58	22.86
		Band 66	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2174.8	67084	4x4MMIMO	Band 2	20M	1960	900	4x4MMIMO	Band 12	10M	737.5	5095	4x4MMIMO	21.45	21.65
	CA_2A-12A-66C	Band 2	20M	1880	1890	QPSK	1	0		Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MMIMO	Band 66	20M	757.3	5293	4x4MMIMO	19.82	20.00
		Band 12	10M	707.5	23095	QPSK	1	0	4x4MMIMO	Band 2	20M	1960	900	4x4MMIMO	Band 66	20M	2155	66886		Band 66	20M	1979.8	1098	4x4MMIMO	22.75	22.86
		Band 66	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2174.8	67084	4x4MMIMO	Band 2	20M	1960	900	4x4MMIMO	Band 12	10M	737.5	5095	4x4MMIMO	21.8	21.65
CA_2A-66C-71A	Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900		Band 66	20M	2155	66886		Band 66	20M	1979.8	1098		23.06	23.22	
	Band 66	20M	1745	132322	QPSK	1	0		Band 66	20M	2174.8	67084		Band 2	20M	1960	900		Band 71	20M	637	68786		21.6	21.65	
	Band 2	20M	1880	1890	QPSK	1	0	4x4MMIMO	Band 71	20M	637	68786	4x4MMIMO	Band 66	20M	2155	66886	4x4MMIMO	Band 66	20M	656.8	68984	4x4MMIMO	19.89	20	
CA_2A-66C-71A	Band 71	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MMIMO	Band 66	20M	2155	66886	4x4MMIMO	Band 66	20M	1979.8	1098	4x4MMIMO	23.12	23.22	
	Band 66	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2174.8	67084	4x4MMIMO	Band 2	20M	1960	900	4x4MMIMO	Band 71	20M	637	68786		21.55	21.65	

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

Configure	PCC								SCC1				SCC2				SCC3				Power					
	LTE	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	(MHz)	Freq. (MHz)	Channel					RB	Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel
Inter-Band	CA_2A-2A-12B	Band 2	20M	1880	1890	QPSK	1	0		Band 2	5M	1987.5	1175		Band 12	5M	737.5	5095		Band 12	10M	2132.5	2175		19.98	20
		Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 2	20M	1960	900		Band 2	5M	1987.5	1175		22.42	22.47
		Band 12	5M	707.5	23095	QPSK	1	0	4x4MMIMO	Band 2	5M	1987.5	1175	4x4MMIMO	Band 12	5M	737.5	5095	4x4MMIMO	Band 12	10M	2132.5	2175	4x4MMIMO	19.89	20
	CA_2A-2A-12B	Band 2	20M	1880	1890	QPSK	1	0		Band 12	10M	744.7	5167		Band 2	20M	1960	900		Band 12	10M	2132.5	2175		22.37	22.47
		Band 12	5M	707.5	23095	QPSK	1	0	4x4MMIMO	Band 2	5M	1987.5	1175	4x4MMIMO	Band 12	5M	737.5	5095	4x4MMIMO	Band 2	5M	1987.5	1175	4x4MMIMO	22.37	22.47
		Band 2	20M	1880	1890	QPSK	1	0		Band 66	20M	1979.8	1098		Band 66	20M	2155	66886		Band 66	20M	2197.5	67311		19.89	20
	CA_2C-66A-66A	Band 66	20M	1745	132322	QPSK	1	0		Band 66	20M	2197.5	67311	4x4MMIMO	Band 2	20M	1960	900	4x4MMIMO	Band 2	20M	1979.8	1098	4x4MMIMO	21.72	21.65
		Band 2	20M	1880	1890	QPSK	1	0	4x4MMIMO	Band 2	20M	1979.8	1098	4x4MMIMO	Band 66	20M	2155	66886	4x4MMIMO	Band 66	20M	2197.5	67311	4x4MMIMO	19.83	20
		Band 66	20M	1745	132322	QPSK	1	0		Band 66	20M	2197.5	67311	4x4MMIMO	Band 2	20M	1960	900	4x4MMIMO	Band 2	20M	1979.8	1098	4x4MMIMO	21.45	21.65
	CA_2A-2A-66B	Band 2	20M	1880	1890	QPSK	1	0		Band 2	5M	1987.5	1175		Band 66	15M	2155	66886		Band 66	5M	1996.8	1288		20.08	20
		Band 66	15M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2164.3	66979	4x4MMIMO	Band 2	20M	1960	900	4x4MMIMO	Band 2	5M	1987.5	1175	4x4MMIMO	21.21	21.28
		Band 2	20M	1880	1890	QPSK	1	0		Band 66	15M	1987.5	1175	4x4MMIMO	Band 66	15M	2155	66886	4x4MMIMO	Band 66	5M	1996.8	1288	4x4MMIMO	19.92	20
CA_2A-2A-66B	Band 66	15M	1745	132322	QPSK	1	0		Band 66	5M	2164.3	66979	4x4MMIMO	Band 2	20M	1960	900	4x4MMIMO	Band 2	5M	1987.5	1175	4x4MMIMO	21.18	21.28	
	Band 2	20M	1880	1890	QPSK	1	0		Band 2	5M	1987.5	1175	4x4MMIMO	Band 66	20M	2155	66886		Band 66	20M	2007.3	1373		19.88	20	
	Band 66	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2174.8	67084	4x4MMIMO	Band 2	20M	1960	900	4x4MMIMO	Band 2	5M	1987.5	1175	4x4MMIMO	21.49	21.65	
CA_2A-2A-66C	Band 2	20M	1880	1890	QPSK	1	0		Band 2	5M	1987.5	1175		Band 66	20M	2155	66886	4x4MMIMO	Band 66	20M	2007.3	1373	4x4MMIMO	19.83	20	
	Band 66	20M	1745	132322	QPSK	1	0		Band 66	20M	2174.8	67084	4x4MMIMO	Band 2	20M	1960	900	4x4MMIMO	Band 2	5M	1987.5	1175	4x4MMIMO	21.55	21.65	
	Band 66	20M	1745	132322	QPSK	1	0		Band 66	5M	2197.5	67311		Band 12	5M	737.5	5095		Band 12	10M	2132.5	2175		21.62	21.65	
CA_12B-66A-66A	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 66	5M	2197.5	67311		Band 66	5M	2197.5	67311		22.51	22.47	
	Band 66	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2197.5	67311	4x4MMIMO	Band 12	5M	737.5	5095	4x4MMIMO	Band 12	10M	2132.5	2175	4x4MMIMO	21.49	21.65	
	Band 12	5M	707.5	23095	QPSK	1	0		Band 12	10M	744.7	5167		Band 66	5M	2197.5	67311	4x4MMIMO	Band 66	5M	2197.5	67311	4x4MMIMO	22.39	22.47	
Intra-Band	CA_25A41D	Band 25	20M	1880	26340	QPSK	1	0		Band 41	20M	2612.8	40818		Band 41	20M	2612.8	40818		Band 41	20M	2632.6	41016		20.21	20.26
		Band 41	20M	2593	40620	QPSK	1	0		Band 41	20M	2612.8	40818		Band 41	20M	2632.6	41016		Band 25	20M	1960	8340		22.8	23.98
		Band 25	20M	1880	26340	QPSK	1	0	4x4MMIMO	Band 41	20M	2593	40620	4x4MMIMO	Band 41	20M	2612.8	40818	4x4MMIMO	Band 41	20M	2632.6	41016	4x4MMIMO	20.21	20.26
	CA_25A41D	Band 41	20M	2593	40620	QPSK	1	0	4x4MMIMO	Band 41	20M	2612.8	40818	4x4MMIMO	Band 41	20M	2632.6	41016	4x4MMIMO	Band 25	20M	1960	8340	4x4MMIMO	23.69	23.98
		Band 41	20M	2593	40620	QPSK	1	0		Band 41	20M	2612.8	40818		Band 41	20M	2632.6	41016		Band 41	20M	2632.6	41016		22.96	23.98
		Band 41	20M	2593	40620	QPSK	1	0	4x4MMIMO	Band 41	20M	2612.8	40818	4x4MMIMO	Band 41	20M	2632.6	41016	4x4MMIMO	Band 41	20M	2632.6	41016	4x4MMIMO	23.32	23.98
	CA_41E	Band 41	20M	2593	40620	QPSK	1	0		Band 41	20M	2612.8	40818													



Reduced Power Mode for Receiver On-UAT(EN-DC)

Band 2 (1900MHz Band) Part24E									
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									
Frequency (MHz)									
20	QPSK	1	0	13.85	13.91	13.89	14.5	0	
20	QPSK	1	49	13.69	13.46	13.76			
20	QPSK	1	99	13.52	13.66	13.67			
20	QPSK	50	0	13.18	13.39	13.13	13.5	1	
20	QPSK	50	24	13.38	13.10	13.01			
20	QPSK	50	99	13.21	12.99	13.04			
20	QPSK	100	0	13.34	13.35	13.06	13.5	1	
20	16QAM	1	0	13.29	13.38	13.32			
20	16QAM	1	49	13.18	13.27	13.13			
20	16QAM	1	99	13.33	13.04	13.03	12.5	2	
20	16QAM	50	0	12.48	12.22	12.13			
20	16QAM	50	24	12.41	12.08	12.02			
20	16QAM	50	99	12.27	12.02	12.25	12.5	2	
20	16QAM	100	0	12.35	12.06	12.05			
20	16QAM	100	0	11.94	12.15	12.18			
20	64QAM	1	49	11.72	11.72	12.17	11.5	3	
20	64QAM	1	99	11.92	11.94	12.19			
20	64QAM	50	0	11.48	11.20	11.10			
20	64QAM	50	24	11.42	11.06	10.99	11.5	3	
20	64QAM	50	99	11.22	10.98	11.15			
20	64QAM	100	0	10.95	11.15	11.06			
Channel									
Frequency (MHz)									
15	QPSK	1	0	13.76	13.60	13.76	14.5	0	
15	QPSK	1	37	13.73	13.47	13.55			
15	QPSK	1	74	13.76	13.32	13.54			
15	QPSK	36	0	13.02	12.73	12.86	13.5	1	
15	QPSK	36	20	12.89	12.59	12.80			
15	QPSK	36	39	12.83	12.54	12.70			
15	QPSK	75	0	12.88	12.81	12.79	13.5	1	
15	16QAM	1	0	13.01	12.94	12.99			
15	16QAM	1	37	12.90	12.81	12.97			
15	16QAM	1	74	12.95	12.60	12.95	12.5	2	
15	16QAM	36	0	11.81	11.54	11.66			
15	16QAM	36	20	11.66	11.37	11.68			
15	16QAM	36	39	11.57	11.31	11.45	12.5	2	
15	16QAM	75	0	11.68	11.40	11.68			
15	64QAM	1	0	11.68	11.67	11.66			
15	64QAM	1	37	11.82	11.53	11.64	12.5	2	
15	64QAM	1	74	11.82	11.37	11.54			
15	64QAM	36	0	11.22	10.93	11.04			
15	64QAM	36	20	11.07	10.77	10.96	11.5	3	
15	64QAM	36	39	10.99	10.75	10.94			
15	64QAM	75	0	11.08	10.77	10.99			
Channel									
Frequency (MHz)									
10	QPSK	1	0	13.69	13.39	13.37	14.5	0	
10	QPSK	1	25	13.63	13.28	13.34			
10	QPSK	1	49	13.55	13.26	13.23			
10	QPSK	25	0	12.91	12.58	12.68	13.5	1	
10	QPSK	25	12	12.84	12.75	12.73			
10	QPSK	25	25	12.91	12.63	12.64			
10	QPSK	50	0	12.83	12.64	12.75	13.5	1	
10	16QAM	1	0	13.19	12.90	12.74			
10	16QAM	1	25	13.09	12.81	12.75			
10	16QAM	1	49	13.07	12.79	12.84	12.5	2	
10	16QAM	25	0	11.94	11.97	11.97			
10	16QAM	25	12	11.86	12.07	11.95			
10	16QAM	25	25	11.81	11.96	11.95	12.5	2	
10	16QAM	50	0	11.83	12.06	11.75			
10	64QAM	1	0	12.30	12.02	12.16			
10	64QAM	1	25	12.13	11.87	12.03	12.5	2	
10	64QAM	1	49	12.22	11.88	12.07			
10	64QAM	25	0	11.08	10.72	10.88			
10	64QAM	25	12	10.99	10.88	10.92	11.5	3	
10	64QAM	25	25	10.85	10.62	10.85			
10	64QAM	50	0	10.94	10.84	10.80			
Channel									
Frequency (MHz)									
5	QPSK	1	0	13.74	13.43	13.58	14.5	0	
5	QPSK	1	12	13.72	13.36	13.59			
5	QPSK	1	24	13.73	13.34	13.61			
5	QPSK	12	0	12.92	12.61	12.94	13.5	1	
5	QPSK	12	7	12.94	12.81	12.93			
5	QPSK	12	13	12.88	12.77	12.85			
5	QPSK	25	0	12.92	12.78	12.94	13.5	1	
5	16QAM	1	0	13.16	12.86	13.21			
5	16QAM	1	12	13.09	12.76	13.15			
5	16QAM	1	24	13.18	12.74	13.21	12.5	2	
5	16QAM	12	0	11.97	11.63	11.95			
5	16QAM	12	7	11.93	11.83	11.86			
5	16QAM	12	13	11.95	11.82	11.95	12.5	2	
5	16QAM	25	0	11.90	11.81	11.94			
5	64QAM	1	0	12.21	11.90	12.23			
5	64QAM	1	12	12.11	11.77	12.17	12.5	2	
5	64QAM	1	24	12.14	11.76	12.22			
5	64QAM	12	0	11.05	10.69	11.02			
5	64QAM	12	7	11.03	10.59	11.05	11.5	3	
5	64QAM	12	13	11.03	10.63	11.05			
5	64QAM	25	0	11.01	10.65	11.04			
Channel									
Frequency (MHz)									
3	QPSK	1	0	13.74	13.41	13.32	14.5	0	
3	QPSK	1	8	13.72	13.39	13.31			
3	QPSK	1	14	13.71	13.32	13.32			
3	QPSK	8	0	12.97	12.62	12.99	13.5	1	
3	QPSK	8	4	13	12.58	12.88			
3	QPSK	8	7	13	12.61	12.89			
3	QPSK	15	0	12.97	12.58	12.86	13.5	1	
3	16QAM	1	0	13.15	12.83	13.03			
3	16QAM	1	8	13.19	12.84	13.08			
3	16QAM	1	14	13.12	12.75	13.05	12.5	2	
3	16QAM	8	0	11.97	11.84	11.85			
3	16QAM	8	4	11.96	11.83	11.86			
3	16QAM	8	7	11.93	11.83	11.83	12.5	2	
3	16QAM	15	0	11.95	11.79	11.79			
3	64QAM	1	0	12.14	11.84	12.01			
3	64QAM	1	8	12.2	11.83	12.04	12.5	2	
3	64QAM	1	14	12.15	11.76	11.99			
3	64QAM	8	0	11.01	10.68	10.85			
3	64QAM	8	4	11.01	10.64	10.85	11.5	3	
3	64QAM	8	7	11	10.63	10.84			
3	64QAM	15	0	11.03	10.59	10.85			
Channel									
Frequency (MHz)									
14	QPSK	1	0	13.60	13.24	13.43	14.5	0	
14	QPSK	1	3	13.62	13.30	13.51			
14	QPSK	1	5	13.58	13.19	13.42			
14	QPSK	3	0	13.63	13.27	13.51	13.5	1	
14	QPSK	3	1	13.69	13.33	13.56			
14	QPSK	3	3	13.66	13.21	13.46			
14	QPSK	6	0	12.77	12.74	12.84	13.5	1	
14	16QAM	1	0	13.01	12.65	12.64			
14	16QAM	1	3	13.05	12.71	12.74			
14	16QAM	1	5	12.96	12.59	12.63	13.5	1	
14	16QAM	3	0	12.83	12.84	12.73			
14	16QAM	3	1	12.88	12.75	12.74			
14	16QAM	3	3	12.79	12.92	12.85	12.5	2	
14	16QAM	6	0	11.84	11.64	11.85			
14	16QAM	1	0	12.08	11.72	11.64			
14	64QAM	1	3	12.14	11.78	11.67	12.5	2	
14	64QAM	1	5	12.08	11.71	11.64			
14	64QAM	3	0	11.95	11.62	11.52			
14	64QAM	3	1	12.00	11.65	11.58	11.5	3	
14	64QAM	3	3	11.94	11.54	11.53			
14	64QAM	6	0	10.93	10.49	10.51			

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									
Frequency (MHz)									
20	QPSK	1	0	15.54	15.67	15.34	16.5	0	
20	QPSK	1	49	15.65	15.54	15.56			
20	QPSK	1	99	15.44	15.45	15.55			
20	QPSK	50	0	14.28	14.53	14.49	15.5	1	
20	QPSK	50	24	14.32	14.28	14.62			
20	QPSK	50	99	14.21	14.19	14.52			
20	QPSK	100	0	14.28	14.45	14.44	15.5	1	
20	16QAM	1	0	14.65	14.63	14.81			
20	16QAM	1	49	14.53	14.50	14.75			
20	16QAM	1	99	14.48	14.55	14.72	14.5	2	
20	16QAM	50	0	13.25	13.20	13.52			
20	16QAM	50	24	13.30	13.25	13.56			
20	16QAM	50	99	13.25	13.25	13.50	14.5	2	
20	16QAM	100	0	13.28	13.25	13.51			
20	64QAM	1	0	13.53	13.48	13.67			
20	64QAM	1	49	13.38					



Reduced Power Mode for Sensor On -UAT(EN-DC)

Band 2 (1900MHz Band)										
Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.26	15.30	15.27	16.5	0		
20	QPSK	1	49	15.05	15.08	15.15				
20	QPSK	1	99	15.05	15.00	15.02				
20	QPSK	50	0	14.30	14.33	14.11	15.5	1		
20	QPSK	50	24	14.32	14.25	14.29				
20	QPSK	50	50	14.09	14.30	14.26				
20	QPSK	100	0	14.23	14.20	14.21	15.5	1		
20	16QAM	1	0	14.15	14.30	14.44				
20	16QAM	1	49	14.60	14.56	14.54				
20	16QAM	1	99	14.28	14.39	14.26	14.5	2		
20	16QAM	50	0	13.43	13.35	13.16				
20	16QAM	50	24	13.21	13.30	13.33				
20	16QAM	50	50	12.22	12.36	12.26	14.5	2		
20	16QAM	100	0	13.13	13.31	13.20				
20	64QAM	1	0	13.21	13.28	13.35				
20	64QAM	1	49	13.63	13.51	13.51	14.5	2		
20	64QAM	1	99	13.33	13.25	13.25				
20	64QAM	50	0	12.17	12.35	12.15				
20	64QAM	50	24	12.28	12.29	12.32	13.5	3		
20	64QAM	50	50	12.12	12.35	12.26				
20	64QAM	100	0	12.17	12.35	12.20				
Channel										
Frequency (MHz)										
15	QPSK	1	0	15.03	15.07	15.10	16.5	0		
15	QPSK	1	37	15.29	15.35	15.36				
15	QPSK	1	74	15.07	15.05	15.09				
15	QPSK	36	0	14.20	14.23	14.17	15.5	1		
15	QPSK	36	20	14.26	14.26	14.26				
15	QPSK	36	39	14.16	14.30	14.26				
15	QPSK	75	0	14.20	14.24	14.21	15.5	1		
15	16QAM	1	0	14.30	14.39	14.30				
15	16QAM	1	37	14.47	14.71	14.67				
15	16QAM	1	74	14.39	14.45	14.25	14.5	2		
15	16QAM	36	0	13.18	13.28	13.18				
15	16QAM	36	20	13.22	13.31	13.27				
15	16QAM	36	39	13.15	13.30	13.24	14.5	2		
15	16QAM	75	0	13.20	13.26	13.26				
15	64QAM	1	0	13.25	13.32	13.37				
15	64QAM	1	37	13.53	13.61	13.68	14.5	2		
15	64QAM	1	74	13.30	13.33	13.25				
15	64QAM	36	0	12.19	12.28	12.20				
15	64QAM	36	20	12.27	12.32	12.30	13.5	3		
15	64QAM	36	39	12.14	12.34	12.26				
15	64QAM	75	0	12.20	12.28	12.23				
Channel										
Frequency (MHz)										
10	QPSK	1	0	15.09	15.12	15.12	16.5	0		
10	QPSK	1	25	15.22	15.21	15.30				
10	QPSK	1	49	15.08	15.12	15.17				
10	QPSK	25	0	14.16	14.24	14.26	15.5	1		
10	QPSK	25	12	14.20	14.23	14.30				
10	QPSK	25	25	14.17	14.29	14.25				
10	QPSK	50	0	14.19	14.26	14.29	15.5	1		
10	16QAM	1	0	14.33	14.43	14.36				
10	16QAM	1	25	14.39	14.63	14.52				
10	16QAM	1	49	14.29	14.47	14.28	14.5	2		
10	16QAM	25	0	13.15	13.27	13.26				
10	16QAM	25	12	13.21	13.26	13.29				
10	16QAM	25	25	13.18	13.34	13.28	14.5	2		
10	16QAM	50	0	13.19	13.31	13.29				
10	64QAM	1	0	13.27	13.40	13.37				
10	64QAM	1	25	13.45	13.42	13.42	14.5	2		
10	64QAM	1	49	13.30	13.40	13.34				
10	64QAM	25	0	12.19	12.29	12.27				
10	64QAM	25	12	12.23	12.30	12.32	13.5	3		
10	64QAM	25	25	12.21	12.33	12.26				
10	64QAM	50	0	12.20	12.29	12.28				
Channel										
Frequency (MHz)										
5	QPSK	1	0	15.28	15.28	15.30	16.5	0		
5	QPSK	1	12	15.12	15.03	15.05				
5	QPSK	1	24	15.01	15.03	15.04				
5	QPSK	12	0	14.08	14.15	14.16	15.5	1		
5	QPSK	12	7	14.16	14.29	14.26				
5	QPSK	12	13	14.12	14.18	14.17				
5	QPSK	25	0	14.11	14.17	14.20	15.5	1		
5	16QAM	1	0	14.17	14.36	14.31				
5	16QAM	1	12	14.45	14.62	14.49				
5	16QAM	1	24	14.18	14.33	14.20	14.5	2		
5	16QAM	12	0	13.10	13.23	13.22				
5	16QAM	12	7	13.17	13.29	13.31				
5	16QAM	12	13	13.15	13.23	13.19	14.5	2		
5	16QAM	25	0	13.12	13.27	13.26				
5	64QAM	1	0	13.15	13.34	13.26				
5	64QAM	1	12	13.40	13.55	13.57	14.5	2		
5	64QAM	1	24	13.19	13.29	13.27				
5	64QAM	12	0	12.14	12.26	12.24				
5	64QAM	12	7	12.25	12.38	12.30	13.5	3		
5	64QAM	12	13	12.20	12.26	12.26				
5	64QAM	25	0	12.14	12.26	12.26				
Channel										
Frequency (MHz)										
3	QPSK	1	0	15.08	15.12	15.11	16.5	0		
3	QPSK	1	8	15.13	15.10	15.16				
3	QPSK	1	14	15.09	15.09	15.16				
3	QPSK	8	0	14.09	14.14	14.19	15.5	1		
3	QPSK	8	4	14.13	14.18	14.21				
3	QPSK	8	7	14.11	14.13	14.19				
3	QPSK	15	0	14.13	14.15	14.22	15.5	1		
3	16QAM	1	0	14.26	14.36	14.35				
3	16QAM	1	8	14.32	14.44	14.28				
3	16QAM	1	14	14.23	14.46	14.42	14.5	2		
3	16QAM	8	0	13.17	13.27	13.30				
3	16QAM	8	4	13.22	13.32	13.32				
3	16QAM	8	7	13.20	13.28	13.28	14.5	2		
3	16QAM	15	0	13.16	13.22	13.24				
3	64QAM	1	0	13.20	13.29	13.37				
3	64QAM	1	8	13.25	13.41	13.38	14.5	2		
3	64QAM	1	14	13.25	13.40	13.35				
3	64QAM	8	0	12.21	12.24	12.29				
3	64QAM	8	4	12.24	12.22	12.33	13.5	3		
3	64QAM	8	7	12.19	12.23	12.26				
3	64QAM	15	0	12.16	12.19	12.22				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	15.04	15.06	15.13	16.5	0		
1.4	QPSK	1	3	15.16	15.17	15.26				
1.4	QPSK	1	5	15.03	15.09	15.12				
1.4	QPSK	3	0	15.14	15.20	15.23	15.5	1		
1.4	QPSK	3	1	15.22	15.22	15.28				
1.4	QPSK	3	3	15.13	15.20	15.22				
1.4	16QAM	1	0	14.16	14.44	14.26	15.5	1		
1.4	16QAM	1	3	14.37	14.60	14.46				
1.4	16QAM	1	5	14.17	14.34	14.42				
1.4	16QAM	3	0	14.12	14.22	14.14	14.5	2		
1.4	16QAM	3	1	14.09	14.19	14.26				
1.4	16QAM	3	3	14.08	14.17	14.15				
1.4	16QAM	6	0	13.31	13.35	13.35	14.5	2		
1.4	64QAM	1	0	13.24	13.40	13.31				
1.4	64QAM	1	3	13.28	13.46	13.40				
1.4	64QAM	1	5	13.21	13.29	13.27	14.5	2		
1.4	64QAM	3	0	13.32	13.35	13.34				
1.4	64QAM	3	1	13.29	13.36	13.43				
1.4	64QAM	3	3	13.27	13.32	13.32	13.5	3		
1.4	64QAM	6	0	12.18	12.21	12.30				

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)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	16.01	16.45	16.19	17.5	0		
20	QPSK	1	49	16.21	16.42	16.26				
20	QPSK	1	99	16.00	16.01	16.00				
20	QPSK	50	0	15.17	15.32	15.16	16.5	1		
20	QPSK	50	24	15.28	15.27	15.22				
20	QPSK	50	50	15.57	15.35	15.35				
20	QPSK	100	0	15.26	15.30	15.10	16.5	1		
20										



Reduced Power Mode for Hotspot on-UAT(EN-DC)

Band 2 (1800MHz Band)										
Part 24E										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 1800	Power Middle Ch. / Freq. 1800	Power High Ch. / Freq. 1800	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	14.30	14.35	14.18	15.5	0		
20	QPSK	1	49	13.96	14.03	14.03				
20	QPSK	1	99	14.05	14.03	13.94				
20	QPSK	50	0	12.97	13.10	13.04	14.5	1		
20	QPSK	50	24	13.05	13.00	12.98				
20	QPSK	50	50	12.97	12.77	12.94				
20	QPSK	100	0	13.02	13.05	13.01	14.5	1		
20	16QAM	1	0	12.94	12.98	13.16				
20	16QAM	1	49	13.36	13.24	13.21				
20	16QAM	1	99	12.95	12.90	12.92	13.5	2		
20	16QAM	50	0	11.97	12.03	12.04				
20	16QAM	50	24	12.01	11.91	11.99				
20	16QAM	50	50	11.90	11.86	11.92	13.5	2		
20	16QAM	100	0	11.93	11.94	11.98				
20	64QAM	1	0	12.05	12.00	12.27				
20	64QAM	1	49	12.18	12.12	12.21	13.5	2		
20	64QAM	1	99	11.90	12.03	11.82				
20	64QAM	50	0	11.18	11.36	11.32				
20	64QAM	50	24	11.26	11.29	11.34	12.5	3		
20	64QAM	50	50	11.18	11.12	11.16				
20	64QAM	100	0	11.26	11.21	11.23				
Channel										
Frequency (MHz)										
15	QPSK	1	0	13.97	13.95	13.86	15.5	0		
15	QPSK	1	37	13.95	13.97	13.98				
15	QPSK	1	74	13.88	13.80	13.75				
15	QPSK	36	0	12.96	12.97	13.00	14.5	1		
15	QPSK	36	20	12.94	12.94	13.03				
15	QPSK	36	39	12.98	12.95	13.05				
15	QPSK	75	0	14.01	13.97	13.85	14.5	1		
15	16QAM	1	0	13.10	13.09	12.99				
15	16QAM	1	37	13.44	13.01	13.06				
15	16QAM	1	74	13.05	12.97	13.04	14.5	1		
15	16QAM	36	0	12.90	11.98	12.90				
15	16QAM	36	20	12.00	11.97	11.88				
15	16QAM	36	39	12.01	11.95	11.91	13.5	2		
15	16QAM	75	0	12.89	13.08	12.82				
15	64QAM	1	0	12.31	12.29	12.06				
15	64QAM	1	37	12.36	12.20	12.23	13.5	2		
15	64QAM	1	74	12.46	12.30	12.07				
15	64QAM	36	0	11.23	11.28	11.28				
15	64QAM	36	20	11.21	11.29	11.24	12.5	3		
15	64QAM	36	39	11.23	11.22	11.27				
15	64QAM	75	0	11.48	11.57	11.36				
Channel										
Frequency (MHz)										
10	QPSK	1	0	13.97	13.92	13.83	15.5	0		
10	QPSK	1	25	14.05	14.05	14.05				
10	QPSK	1	49	13.88	13.81	13.79				
10	QPSK	25	0	13.07	13.01	12.88	14.5	1		
10	QPSK	25	12	13.06	12.98	13.03				
10	QPSK	25	25	13.01	13.03	12.91				
10	QPSK	50	0	12.94	13.07	13.02	14.5	1		
10	16QAM	1	0	12.96	12.87	13.05				
10	16QAM	1	25	13.06	12.95	13.06				
10	16QAM	1	49	12.92	12.77	13.04	13.5	2		
10	16QAM	25	0	12.01	12.00	11.97				
10	16QAM	25	12	11.90	11.85	11.92				
10	16QAM	50	0	11.87	12.02	11.95	13.5	2		
10	64QAM	1	0	12.34	12.34	12.22				
10	64QAM	1	25	12.44	12.32	12.23				
10	64QAM	1	49	12.31	12.08	12.28	12.5	3		
10	64QAM	25	0	11.19	11.32	11.38				
10	64QAM	25	12	11.20	11.20	11.33				
10	64QAM	25	25	11.11	11.22	11.14	12.5	3		
10	64QAM	50	0	11.25	11.32	11.17				
Channel										
Frequency (MHz)										
5	QPSK	1	0	13.33	13.74	13.75	15.5	0		
5	QPSK	1	12	14.24	14.20	13.95				
5	QPSK	1	24	13.85	13.83	13.77				
5	QPSK	12	0	12.95	12.93	12.89	14.5	1		
5	QPSK	12	7	13.04	12.96	13.05				
5	QPSK	12	13	12.98	13.06	12.90				
5	QPSK	25	0	12.96	13.03	12.86	14.5	1		
5	16QAM	1	0	13.06	13.06	13.12				
5	16QAM	1	12	13.28	13.45	13.28				
5	16QAM	1	24	13.08	13.02	12.95	13.5	2		
5	16QAM	12	0	11.81	11.94	12.00				
5	16QAM	12	7	11.89	12.04	12.07				
5	16QAM	12	13	11.87	12.00	11.99	13.5	2		
5	16QAM	25	0	12.04	11.99	11.94				
5	64QAM	1	0	12.24	12.24	12.21				
5	64QAM	1	12	12.43	12.53	12.45	13.5	2		
5	64QAM	1	24	12.23	12.21	12.25				
5	64QAM	12	0	11.28	11.11	11.28				
5	64QAM	12	7	11.18	11.30	11.34	12.5	3		
5	64QAM	12	13	11.33	11.22	11.30				
5	64QAM	25	0	11.14	11.23	11.26				
Channel										
Frequency (MHz)										
3	QPSK	1	0	13.94	14.03	13.91	15.5	0		
3	QPSK	1	8	13.96	13.94	13.94				
3	QPSK	1	14	14.06	13.94	14.00				
3	QPSK	8	0	13.01	12.96	12.86	14.5	1		
3	QPSK	8	4	12.90	13.01	12.95				
3	QPSK	8	7	13.03	13.10	12.90				
3	QPSK	15	0	13.02	12.97	13.01	14.5	1		
3	16QAM	1	0	13.01	13.07	13.03				
3	16QAM	1	8	13.32	12.98	13.01				
3	16QAM	1	14	13.33	13.34	13.43	13.5	2		
3	16QAM	8	0	11.99	12.04	12.01				
3	16QAM	8	4	12.07	12.06	12.06				
3	16QAM	8	7	12.14	12.06	12.10	13.5	2		
3	16QAM	15	0	11.85	12.00	11.98				
3	64QAM	1	0	12.12	12.34	12.45				
3	64QAM	1	8	12.55	12.44	12.34	13.5	2		
3	64QAM	1	14	12.33	12.38	12.32				
3	64QAM	8	0	11.42	11.30	11.33				
3	64QAM	8	4	11.40	11.33	11.33	12.5	3		
3	64QAM	8	7	11.25	11.15	11.26				
3	64QAM	15	0	11.20	11.17	11.20				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	13.97	13.93	13.85	15.5	0		
1.4	QPSK	1	3	14.21	14.19	14.10				
1.4	QPSK	1	5	13.98	13.99	13.81				
1.4	QPSK	3	0	14.17	13.95	14.04	14.5	1		
1.4	QPSK	3	1	14.18	14.10	14.03				
1.4	QPSK	3	3	14.12	14.04	13.98				
1.4	QPSK	6	0	13.18	13.14	12.98	14.5	1		
1.4	16QAM	1	0	13.08	13.30	13.03				
1.4	16QAM	1	3	13.14	13.18	13.12				
1.4	16QAM	1	5	12.99	13.37	13.11	14.5	1		
1.4	16QAM	3	0	13.05	12.94	13.04				
1.4	16QAM	3	1	13.17	12.90	13.20				
1.4	16QAM	3	3	12.94	13.14	13.02	13.5	2		
1.4	16QAM	6	0	12.14	12.09	12.12				
1.4	64QAM	1	0	12.43	12.19	12.28				
1.4	64QAM	1	3	12.85	12.40	12.20	13.5	2		
1.4	64QAM	1	5	12.38	12.44	12.19				
1.4	64QAM	3	0	12.28	12.36	12.19				
1.4	64QAM	3	1	12.29	12.25	12.30	12.5	3		
1.4	64QAM	3	3	12.33	12.35	12.32				
1.4	64QAM	6	0	11.18	11.39	11.24				

Band 66										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 15072	Power Middle Ch. / Freq. 15332	Power High Ch. / Freq. 15572	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.70	15.85	15.80	17	0		
20	QPSK	1	49	15.69	15.90	15.57				
20	QPSK	1	99	15.56	15.45	15.51				
20	QPSK	50	0	14.92	15.00	14.99	16	1		
20	QPSK	50	24	14.97	14.86	14.88				
20	QPSK	50	50	14.78	14.81	14.86				
20	QPSK	100	0	14.85	14.90	14.83	16	1		
20	16QAM	1	0	14.88	14.81	14.89				
20	16QAM	1	49	14.85	14.90	14.80				
20	16QAM	1	99	14.53	14.85	14.44	15	2		
20	16QAM	50	0	13.77	13.85	13.90				
20	16QAM	50	24	13.85	13.85	14.00				
20	16QAM	50	50	13.66	13.79	13.80	15	2		
20	16QAM	100	0	13.84	13.85	13.75				
20	64QAM	1	0	13.85	13.32	13.75				
20	64QAM	1								



Reduced Power Mode for Handheld on-UAT(EN-DC)

Band 2 (1900MHz Band)									
Part 24E									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				18700	18900	19100			
Frequency (MHz)				1860	1870	1880			
20	QPSK	1	0	17.70	17.74	17.54			
20	QPSK	1	49	17.68	17.62	17.45			
20	QPSK	1	99	17.63	17.57	17.30			
20	QPSK	50	0	16.80	16.84	16.73			
20	QPSK	50	24	16.73	16.71	16.61			
20	QPSK	50	50	16.71	16.70	16.64			
20	QPSK	100	0	16.70	16.72	16.63			
20	16QAM	1	0	17.08	17.05	17.00			
20	16QAM	1	49	16.76	16.67	16.70			
20	16QAM	50	0	15.68	15.65	15.68			
20	16QAM	50	24	15.60	15.61	15.68			
20	16QAM	50	50	15.62	15.60	15.51			
20	16QAM	100	0	15.58	15.57	15.52			
20	64QAM	1	0	15.84	15.86	15.99			
20	64QAM	1	49	15.75	15.79	15.82			
20	64QAM	1	99	15.84	15.89	15.90			
20	64QAM	50	0	15.06	15.10	15.11			
20	64QAM	50	24	15.03	15.11	15.07			
20	64QAM	50	50	15.01	15.08	15.00			
20	64QAM	100	0	15.03	15.20	15.06			
Channel				18875	18900	19125			
Frequency (MHz)				1887.5	1890	1902.5			
15	QPSK	1	0	17.67	17.63	17.41			
15	QPSK	1	37	17.62	17.68	17.32			
15	QPSK	1	74	17.50	17.38	17.16			
15	QPSK	36	0	16.55	16.46	16.45			
15	QPSK	36	20	16.56	16.51	16.40			
15	QPSK	36	39	16.51	16.46	16.38			
15	QPSK	75	0	16.38	16.54	16.46			
15	16QAM	1	0	16.75	16.62	16.75			
15	16QAM	1	37	16.29	16.32	16.37			
15	16QAM	1	74	16.51	16.64	16.55			
15	16QAM	36	0	15.40	15.42	15.41			
15	16QAM	36	20	15.36	15.50	15.37			
15	16QAM	36	39	15.34	15.46	15.34			
15	16QAM	75	0	15.32	15.36	15.33			
15	64QAM	1	0	15.66	15.62	15.66			
15	64QAM	1	37	15.79	15.89	15.87			
15	64QAM	1	74	15.52	15.64	15.51			
15	64QAM	36	0	14.61	14.50	14.49			
15	64QAM	36	20	14.51	14.51	14.56			
15	64QAM	36	39	14.50	14.47	14.46			
15	64QAM	75	0	14.49	14.56	14.45			
Channel				18950	18900	19150			
Frequency (MHz)				1895	1890	1905			
10	QPSK	1	0	17.46	17.51	17.43			
10	QPSK	1	25	17.27	17.33	17.05			
10	QPSK	1	49	17.42	17.43	17.08			
10	QPSK	25	0	16.49	16.45	16.44			
10	QPSK	25	12	16.48	16.48	16.45			
10	QPSK	25	25	16.41	16.45	16.35			
10	QPSK	50	0	16.50	16.49	16.43			
10	16QAM	1	0	16.74	16.63	16.74			
10	16QAM	1	25	16.61	16.61	16.59			
10	16QAM	1	49	16.53	16.64	16.55			
10	16QAM	25	0	15.37	15.41	15.41			
10	16QAM	25	12	15.37	15.47	15.43			
10	16QAM	25	25	15.37	15.46	15.35			
10	16QAM	50	0	15.30	15.51	15.40			
10	64QAM	1	0	15.61	15.67	15.66			
10	64QAM	1	25	15.26	15.36	15.42			
10	64QAM	1	49	15.58	15.70	15.67			
10	64QAM	25	0	14.47	14.49	14.59			
10	64QAM	25	12	14.46	14.53	14.46			
10	64QAM	25	25	14.43	14.48	14.47			
10	64QAM	50	0	14.40	14.53	14.53			
Channel				18925	18900	19175			
Frequency (MHz)				1892.5	1890	1907.5			
5	QPSK	1	0	17.58	17.47	17.22			
5	QPSK	1	12	17.10	17.18	17.23			
5	QPSK	1	24	17.37	17.57	17.23			
5	QPSK	12	0	16.60	16.67	16.51			
5	QPSK	12	7	16.48	16.52	16.39			
5	QPSK	12	13	16.53	16.51	16.33			
5	QPSK	25	0	16.53	16.54	16.36			
5	16QAM	1	0	16.76	16.70	16.70			
5	16QAM	1	12	16.35	16.31	16.33			
5	16QAM	1	24	16.71	16.71	16.54			
5	16QAM	12	0	15.52	15.52	15.38			
5	16QAM	12	7	15.50	15.51	15.33			
5	16QAM	12	13	15.49	15.46	15.31			
5	16QAM	25	0	15.48	15.47	15.28			
5	64QAM	1	0	15.72	15.68	15.68			
5	64QAM	1	12	15.49	15.46	15.35			
5	64QAM	1	24	15.82	15.68	15.61			
5	64QAM	12	0	14.61	14.52	14.51			
5	64QAM	12	7	14.56	14.48	14.47			
5	64QAM	12	13	14.62	14.54	14.58			
5	64QAM	25	0	14.56	14.45	14.45			
Channel				18915	18900	19185			
Frequency (MHz)				1891.5	1890	1909.5			
3	QPSK	1	0	17.51	17.46	17.22			
3	QPSK	1	8	17.54	17.48	17.33			
3	QPSK	1	14	17.47	17.53	17.17			
3	QPSK	8	0	16.41	16.46	16.38			
3	QPSK	8	4	16.50	16.44	16.34			
3	QPSK	8	7	16.55	16.45	16.32			
3	QPSK	15	0	16.53	16.45	16.35			
3	16QAM	1	0	16.68	16.71	16.62			
3	16QAM	1	8	16.40	16.45	16.39			
3	16QAM	1	14	16.84	16.85	16.58			
3	16QAM	8	0	15.38	15.35	15.25			
3	16QAM	8	4	15.43	15.41	15.26			
3	16QAM	8	7	15.40	15.48	15.27			
3	16QAM	15	0	15.50	15.53	15.28			
3	64QAM	1	0	15.74	15.77	15.75			
3	64QAM	1	8	15.82	15.85	15.85			
3	64QAM	1	14	15.76	15.77	15.60			
3	64QAM	8	0	14.52	14.47	14.46			
3	64QAM	8	4	14.49	14.49	14.46			
3	64QAM	8	7	14.44	14.45	14.45			
3	64QAM	15	0	14.49	14.53	14.46			
Channel				18907	18900	19193			
Frequency (MHz)				1890.7	1890	1909.3			
1.4	QPSK	1	0	17.58	17.56	17.27			
1.4	QPSK	1	3	17.28	17.28	17.09			
1.4	QPSK	1	5	17.54	17.50	17.20			
1.4	QPSK	3	0	17.02	17.01	17.04			
1.4	QPSK	3	1	17.13	17.08	17.01			
1.4	QPSK	3	3	17.13	17.11	17.00			
1.4	QPSK	6	0	16.47	16.47	16.25			
1.4	16QAM	1	0	16.86	16.72	16.61			
1.4	16QAM	1	3	16.69	16.72	16.60			
1.4	16QAM	1	5	16.84	16.86	16.71			
1.4	16QAM	3	0	16.57	16.53	16.32			
1.4	16QAM	3	1	16.51	16.47	16.34			
1.4	16QAM	3	3	16.44	16.39	16.26			
1.4	16QAM	6	0	15.44	15.44	15.25			
1.4	64QAM	1	0	15.75	15.72	15.71			
1.4	64QAM	1	3	15.45	15.34	15.40			
1.4	64QAM	1	5	15.79	15.73	15.74			
1.4	64QAM	3	0	15.67	15.61	15.51			
1.4	64QAM	3	1	15.43	15.43	15.42			
1.4	64QAM	3	3	15.56	15.53	15.38			
1.4	64QAM	6	0	14.53	14.48	14.44			

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	16.67	16.27	16.25			
20									





Reduced Power Mode for Sensor On(EN-DC)

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Channel, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains data for Band 2 (1900MHz Band) Part 24E.

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Channel, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains data for Band 5 (Cellular Band) Part 22H(only on channel required).

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Channel, Power Low Ch./Freq., Power Middle Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains data for Band 12 (700MHz Low Band) Part 27F(only on channel required).



Band 25 (1900MHz Band)										
Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. (dBm)	Power Middle Ch / Freq. (dBm)	Power High Ch / Freq. (dBm)	Tune-up limit (dBm)	MPR		
Channel				20140	20340	20540				
Frequency (MHz)				1860	1880	1900				
20	QPSK	1	0	17.00	17.16	16.85				
20	QPSK	1	49	16.98	16.71	16.75	17.5	0		
20	QPSK	1	99	16.89	17.11	17.00				
20	QPSK	50	0	17.05	17.14	16.98				
20	QPSK	50	24	16.78	16.91	16.87	17.5	0		
20	QPSK	50	50	16.76	16.88	16.90				
20	QPSK	100	0	16.76	16.89	16.81				
20	16QAM	1	0	17.05	17.00	17.01				
20	16QAM	1	49	16.96	17.08	17.10	17.5	0		
20	16QAM	1	99	17.00	16.99	17.03				
20	16QAM	50	0	16.75	16.84	16.86				
20	16QAM	50	24	16.79	16.89	16.86	17.5	0		
20	16QAM	50	50	16.80	16.86	16.88				
20	16QAM	100	0	16.77	16.79	16.83				
20	64QAM	1	0	16.87	17.02	17.10				
20	64QAM	1	49	16.85	17.02	16.86	17.5	0		
20	64QAM	1	99	16.94	16.89	16.99				
20	64QAM	50	0	16.72	16.85	16.87				
20	64QAM	50	24	16.82	16.91	16.86	17.5	0		
20	64QAM	50	50	16.76	16.85	16.88				
20	64QAM	100	0	16.78	16.81	16.78				
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR	(dB)	
Frequency (MHz)				1857.5	1880	1907.5				
15	QPSK	1	0	16.53	16.67	16.71				
15	QPSK	1	37	17.02	16.62	16.69	17.5	0		
15	QPSK	1	74	17.00	16.62	16.62				
15	QPSK	36	0	16.60	16.76	16.77				
15	QPSK	36	20	16.68	16.78	16.84	17.5	0		
15	QPSK	36	39	16.60	16.73	16.74				
15	QPSK	75	0	16.66	16.78	16.73				
15	16QAM	1	0	16.94	16.78	17.07				
15	16QAM	1	37	16.95	16.97	16.91	17.5	0		
15	16QAM	1	74	16.81	16.94	16.94				
15	16QAM	36	0	16.65	16.71	16.79				
15	16QAM	36	20	16.70	16.77	16.82	17.5	0		
15	16QAM	36	39	16.58	16.72	16.79				
15	16QAM	75	0	16.68	16.81	16.71				
15	64QAM	1	0	16.71	17.05	16.90				
15	64QAM	1	37	16.72	16.88	16.80	17.5	0		
15	64QAM	1	74	16.70	16.77	16.88				
15	64QAM	36	0	16.68	16.75	16.81				
15	64QAM	36	20	16.66	16.79	16.82	17.5	0		
15	64QAM	36	39	16.58	16.72	16.76				
15	64QAM	75	0	16.67	16.80	16.76				
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR	(dB)	
Frequency (MHz)				1855	1880	1910				
10	QPSK	1	0	16.89	16.67	16.78				
10	QPSK	1	25	16.87	16.66	16.77	17.5	0		
10	QPSK	1	49	16.88	16.64	16.77				
10	QPSK	25	0	16.39	16.41	16.42				
10	QPSK	25	12	16.37	16.49	16.43	17.5	0		
10	QPSK	25	25	16.41	16.47	16.51				
10	QPSK	50	0	16.42	16.48	16.44				
10	16QAM	1	0	16.72	16.65	16.67				
10	16QAM	1	25	16.63	16.71	16.74	17.5	0		
10	16QAM	1	49	16.67	16.64	16.65				
10	16QAM	25	0	16.36	16.32	16.30				
10	16QAM	25	12	16.42	16.47	16.43	17.5	0		
10	16QAM	25	25	16.37	16.45	16.51				
10	16QAM	50	0	16.42	16.46	16.43				
10	64QAM	1	0	16.71	16.71	16.73				
10	64QAM	1	25	16.76	16.78	16.74	17.5	0		
10	64QAM	1	49	16.88	16.86	16.87				
10	64QAM	25	0	16.41	16.39	16.46				
10	64QAM	25	12	16.45	16.52	16.46	17.5	0		
10	64QAM	25	25	16.36	16.49	16.45				
10	64QAM	50	0	16.38	16.45	16.39				
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR	(dB)	
Frequency (MHz)				1852.5	1880	1912.5				
5	QPSK	1	0	16.62	16.81	16.40				
5	QPSK	1	12	16.61	16.25	16.33	17.5	0		
5	QPSK	1	24	16.78	16.77	16.67				
5	QPSK	12	0	16.30	16.36	16.41				
5	QPSK	12	7	16.38	16.50	16.46	17.5	0		
5	QPSK	12	13	16.35	16.47	16.46				
5	QPSK	25	0	16.30	16.43	16.43				
5	16QAM	1	0	16.60	16.61	16.64				
5	16QAM	1	12	16.56	16.68	16.58	17.5	0		
5	16QAM	1	24	16.64	16.72	16.70				
5	16QAM	12	0	16.33	16.40	16.44				
5	16QAM	12	7	16.38	16.50	16.49	17.5	0		
5	16QAM	12	13	16.35	16.49	16.49				
5	16QAM	25	0	16.30	16.43	16.47				
5	64QAM	1	0	16.47	16.50	16.61				
5	64QAM	1	12	16.25	16.26	16.49	17.5	0		
5	64QAM	1	24	16.44	16.46	16.59				
5	64QAM	12	0	16.28	16.30	16.40				
5	64QAM	12	7	16.30	16.45	16.50	17.5	0		
5	64QAM	12	13	16.31	16.49	16.47				
5	64QAM	25	0	16.30	16.41	16.46				
Channel				26065	26340	26675	Tune-up limit (dBm)	MPR	(dB)	
Frequency (MHz)				1851.5	1880	1913.5				
3	QPSK	1	0	16.67	16.71	16.83				
3	QPSK	1	8	16.78	16.83	17.01	17.5	0		
3	QPSK	1	14	16.77	16.90	16.97				
3	QPSK	8	0	16.80	16.83	16.91				
3	QPSK	8	4	16.83	16.96	17.03	17.5	0		
3	QPSK	8	7	16.83	16.96	17.03				
3	QPSK	15	0	16.80	16.98	16.97				
3	16QAM	1	0	16.60	16.67	16.65				
3	16QAM	1	8	16.71	16.77	16.78	17.5	0		
3	16QAM	1	14	16.61	16.61	16.84				
3	16QAM	8	0	16.41	16.44	16.49				
3	16QAM	8	4	16.47	16.62	16.57	17.5	0		
3	16QAM	8	7	16.48	16.60	16.54				
3	16QAM	15	0	16.42	16.55	16.53				
3	64QAM	1	0	16.51	16.54	16.63				
3	64QAM	1	8	16.64	16.72	16.76	17.5	0		
3	64QAM	1	14	16.60	16.70	16.76				
3	64QAM	8	0	16.40	16.41	16.44				
3	64QAM	8	4	16.40	16.53	16.50	17.5	0		
3	64QAM	8	7	16.41	16.53	16.50				
3	64QAM	15	0	16.39	16.50	16.49				
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR	(dB)	
Frequency (MHz)				1850.7	1880	1914.3				
1.4	QPSK	1	0	16.78	16.78	16.35				
1.4	QPSK	1	3	16.77	16.82	16.78	17.5	0		
1.4	QPSK	1	5	16.74	16.74	16.62				
1.4	QPSK	3	0	16.28	16.33	16.36				
1.4	QPSK	3	1	16.34	16.47	16.41	17.5	0		
1.4	QPSK	3	3	16.31	16.44	16.41				
1.4	QPSK	6	0	16.28	16.40	16.38				
1.4	16QAM	1	0	16.56	16.58	16.59				
1.4	16QAM	1	8	16.62	16.66	16.53	17.5	0		
1.4	16QAM	1	5	16.50	16.69	16.65				
1.4	16QAM	3	0	16.29	16.37	16.39				
1.4	16QAM	3	1	16.34	16.47	16.44	17.5	0		
1.4	16QAM	3	3	16.31	16.46	16.44				
1.4	16QAM	6	0	16.28	16.40	16.42				
1.										



Band 41/ Band 41 HPUE (2.6G Band)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	17.87	17.70	17.93	17.78	17.91	18	0
20	QPSK	1	49	17.89	17.55	17.54	17.55	17.88		
20	QPSK	1	99	17.56	17.45	17.56	17.54	17.56		
20	QPSK	50	0	17.90	17.87	17.92	17.76	17.87		
20	QPSK	50	24	17.43	17.67	17.67	17.67	17.67	18	0
20	QPSK	50	50	17.42	17.43	17.78	17.67	17.78		
20	QPSK	100	0	17.40	17.37	17.78	17.67	17.56		
20	16QAM	1	0	17.35	17.23	17.26	17.54	17.55		
20	16QAM	1	49	17.34	17.27	17.21	17.19	17.26	18	0
20	16QAM	1	99	17.33	17.32	17.25	17.45	17.26		
20	16QAM	50	0	17.38	17.31	17.24	17.15	17.21		
20	16QAM	50	24	17.41	17.40	17.31	17.24	17.35		
20	16QAM	50	50	17.43	17.39	17.27	17.08	17.34	18	0
20	16QAM	100	0	17.39	17.36	17.28	17.11	17.25		
20	64QAM	1	0	17.29	17.34	17.25	17.34	17.45		
20	64QAM	1	49	17.17	17.07	17.17	17.19	17.22	18	0
20	64QAM	1	99	17.17	17.19	17.12	17.55	17.34		
20	64QAM	50	0	17.31	17.24	17.15	17.11	17.13		
20	64QAM	50	24	17.42	17.37	17.23	17.16	17.26	18	0
20	64QAM	50	50	17.36	17.35	17.20	17.05	17.26		
20	64QAM	100	0	17.43	17.37	17.32	17.18	17.28		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	17.63	17.59	17.52	17.72	17.88	18	0
15	QPSK	1	37	17.61	17.57	17.62	17.84	17.89		
15	QPSK	1	74	17.63	17.75	17.69	17.62	17.64		
15	QPSK	36	0	17.80	17.75	17.84	17.90	17.72		
15	QPSK	36	20	17.82	17.75	17.71	17.67	17.81	18	0
15	QPSK	36	39	17.80	17.76	17.69	17.82	17.74		
15	QPSK	75	0	17.81	17.76	17.75	17.90	17.71		
15	16QAM	1	0	17.76	17.69	17.67	17.84	17.85		
15	16QAM	1	37	17.54	17.61	17.55	17.89	17.82	18	0
15	16QAM	1	74	17.73	17.85	17.70	17.71	17.90		
15	16QAM	36	0	17.78	17.71	17.60	17.86	17.64		
15	16QAM	36	20	17.77	17.69	17.58	17.89	17.79	18	0
15	16QAM	36	39	17.76	17.72	17.59	17.81	17.78		
15	16QAM	75	0	17.84	17.78	17.69	17.89	17.78		
15	64QAM	1	0	17.69	17.56	17.85	17.56	17.89		
15	64QAM	1	37	17.60	17.83	17.84	17.60	17.89	18	0
15	64QAM	1	74	17.60	17.69	17.85	17.89	17.79		
15	64QAM	36	0	17.81	17.73	17.62	17.90	17.71		
15	64QAM	36	20	17.76	17.75	17.63	17.87	17.82	18	0
15	64QAM	36	39	17.75	17.74	17.66	17.87	17.77		
15	64QAM	75	0	17.80	17.76	17.66	17.90	17.76		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	17.80	17.54	17.52	17.51	17.50	18	0
10	QPSK	1	25	17.74	17.64	17.63	17.54	17.50		
10	QPSK	1	49	17.79	17.55	17.50	17.44	17.42		
10	QPSK	25	0	17.86	17.80	17.78	17.67	17.61		
10	QPSK	25	12	17.91	17.82	17.84	17.69	17.62	18	0
10	QPSK	25	25	17.92	17.80	17.76	17.66	17.60		
10	QPSK	50	0	17.86	17.80	17.80	17.63	17.58		
10	16QAM	1	0	17.93	17.79	17.65	17.68	17.60		
10	16QAM	1	25	17.86	17.86	17.56	17.79	17.66	18	0
10	16QAM	1	49	17.89	17.84	17.77	17.70	17.61		
10	16QAM	25	0	17.83	17.78	17.74	17.67	17.55		
10	16QAM	25	12	17.87	17.83	17.78	17.67	17.58	18	0
10	16QAM	25	25	17.87	17.75	17.72	17.65	17.53		
10	16QAM	50	0	17.89	17.82	17.82	17.70	17.64		
10	64QAM	1	0	17.77	17.59	17.53	17.48	17.34		
10	64QAM	1	25	17.63	17.61	17.66	17.51	17.40	18	0
10	64QAM	1	49	17.67	17.59	17.57	17.46	17.33		
10	64QAM	25	0	17.83	17.76	17.75	17.63	17.58		
10	64QAM	25	12	17.81	17.81	17.78	17.68	17.61	18	0
10	64QAM	25	25	17.82	17.74	17.73	17.63	17.58		
10	64QAM	50	0	17.83	17.78	17.75	17.65	17.55		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2496.5	2546.8	2593	2640.30	2687.5		
5	QPSK	1	0	17.71	17.46	17.42	17.45	17.38	18	0
5	QPSK	1	12	17.65	17.56	17.53	17.48	17.38		
5	QPSK	1	24	17.70	17.47	17.40	17.38	17.30		
5	QPSK	12	0	17.77	17.72	17.68	17.61	17.49		
5	QPSK	12	7	17.82	17.74	17.74	17.63	17.50	18	0
5	QPSK	12	13	17.83	17.72	17.66	17.60	17.48		
5	QPSK	25	0	17.77	17.72	17.70	17.57	17.46		
5	16QAM	1	0	17.84	17.71	17.55	17.62	17.48		
5	16QAM	1	12	17.77	17.78	17.89	17.73	17.54	18	0
5	16QAM	1	24	17.87	17.76	17.67	17.64	17.49		
5	16QAM	12	0	17.74	17.70	17.64	17.61	17.43		
5	16QAM	12	7	17.78	17.75	17.68	17.61	17.46	18	0
5	16QAM	12	13	17.78	17.67	17.62	17.59	17.41		
5	16QAM	25	0	17.80	17.74	17.72	17.64	17.52		
5	64QAM	1	0	17.68	17.51	17.43	17.42	17.22		
5	64QAM	1	12	17.54	17.53	17.56	17.45	17.28	18	0
5	64QAM	1	24	17.58	17.51	17.47	17.40	17.21		
5	64QAM	12	0	17.74	17.68	17.65	17.57	17.46		
5	64QAM	12	7	17.72	17.73	17.68	17.62	17.49	18	0
5	64QAM	12	13	17.73	17.66	17.63	17.57	17.46		
5	64QAM	25	0	17.74	17.70	17.65	17.59	17.43		



Reduced Power Mode for Hotspot on(EN-DC)

Table with columns: 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). Includes sub-headers for Band 2 (1900MHz Band) Part 24E and Band 5 (Cellular Band) Part 22H (only on channel required).

Table with columns: 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). Includes sub-headers for Band 5 (Cellular Band) Part 22H (only on channel required) and Band 12 (700MHz Low Band) Part 27F (only on channel required).

Table with columns: 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). Includes sub-headers for Band 12 (700MHz Low Band) Part 27F (only on channel required).



Band 25 (1900MHz Band) Part 24E										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 26140	Power Middle Ch./Freq. 26340	Power High Ch./Freq. 26550	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	12.91	12.95	12.92	14	0		
20	QPSK	1	49	12.85	12.77	12.78				
20	QPSK	1	99	12.98	12.76	12.77				
20	QPSK	50	0	12.78	12.89	12.87	14	0		
20	QPSK	50	24	12.41	12.85	12.78				
20	QPSK	50	50	12.41	12.87	12.81				
20	QPSK	100	0	12.58	12.82	12.81	14	0		
20	16QAM	1	0	12.93	12.92	12.60				
20	16QAM	1	49	12.65	12.80	12.78				
20	16QAM	1	99	12.76	12.92	12.63	14	0		
20	16QAM	50	0	12.39	12.47	12.34				
20	16QAM	50	24	12.43	12.52	12.27				
20	16QAM	50	50	12.50	12.50	12.39	14	0		
20	16QAM	100	0	12.45	12.35	12.35				
20	16QAM	100	0	12.85	12.56	12.46				
20	64QAM	1	0	12.78	12.77	12.77	14	0		
20	64QAM	1	99	12.67	12.66	12.70				
20	64QAM	50	0	12.31	12.44	12.35				
20	64QAM	50	24	12.41	12.50	12.65	14	0		
20	64QAM	50	50	12.42	12.63	12.66				
20	64QAM	100	0	12.38	12.42	12.54				
Channel										
Frequency (MHz)										
15	QPSK	1	0	12.13	12.45	12.24	14	0		
15	QPSK	1	37	12.19	12.43	12.22				
15	QPSK	1	74	12.23	12.27	12.20				
15	QPSK	36	0	12.29	12.38	12.17	14	0		
15	QPSK	36	20	12.32	12.54	12.35				
15	QPSK	36	39	12.32	12.49	12.40				
15	QPSK	75	0	12.32	12.42	12.34	14	0		
15	16QAM	1	0	12.52	12.44	12.78				
15	16QAM	1	37	12.67	12.40	12.63				
15	16QAM	1	74	12.85	12.80	12.44	14	0		
15	16QAM	36	0	12.23	12.30	12.21				
15	16QAM	36	20	12.38	12.43	12.27				
15	16QAM	36	39	12.47	12.42	12.31	14	0		
15	16QAM	75	0	12.32	12.51	12.33				
15	64QAM	1	0	12.78	12.52	12.65				
15	64QAM	1	37	12.78	12.67	12.61	14	0		
15	64QAM	1	74	12.67	12.89	12.67				
15	64QAM	36	0	12.30	12.46	12.55				
15	64QAM	36	20	12.41	12.51	12.56	14	0		
15	64QAM	36	39	12.66	12.51	12.26				
15	64QAM	75	0	12.12	12.51	12.10				
Channel										
Frequency (MHz)										
10	QPSK	1	0	12.58	12.65	12.46	14	0		
10	QPSK	1	25	12.45	12.65	12.58				
10	QPSK	1	49	12.45	12.27	12.57				
10	QPSK	25	0	12.30	12.21	12.68	14	0		
10	QPSK	25	12	12.24	12.30	12.22				
10	QPSK	25	25	12.45	12.35	12.47				
10	QPSK	50	0	12.45	12.36	12.70	14	0		
10	16QAM	1	0	12.67	12.56	12.75				
10	16QAM	1	25	12.58	12.58	12.58				
10	16QAM	1	49	12.62	12.78	12.61	14	0		
10	16QAM	25	0	12.34	12.45	12.79				
10	16QAM	25	12	12.44	12.38	12.57				
10	16QAM	25	25	12.43	12.40	12.37	14	0		
10	16QAM	50	0	12.34	12.41	12.17				
10	64QAM	1	0	12.67	12.66	12.90				
10	64QAM	1	25	12.67	12.64	12.50	14	0		
10	64QAM	1	49	12.68	12.63	12.59				
10	64QAM	25	0	12.45	12.15	12.58				
10	64QAM	25	12	12.32	12.36	12.57	14	0		
10	64QAM	25	25	12.24	12.31	12.47				
10	64QAM	50	0	12.19	12.15	12.37				
Channel										
Frequency (MHz)										
5	QPSK	1	0	12.27	12.24	12.49	14	0		
5	QPSK	1	12	12.17	12.36	12.61				
5	QPSK	1	24	12.23	12.26	12.60				
5	QPSK	12	0	12.21	12.22	12.71	14	0		
5	QPSK	12	7	12.66	12.39	12.25				
5	QPSK	12	13	12.22	12.33	12.50				
5	QPSK	25	0	12.65	12.45	12.73	14	0		
5	16QAM	1	0	12.78	12.56	12.78				
5	16QAM	1	12	12.62	12.94	12.61				
5	16QAM	1	24	12.65	12.73	12.64	14	0		
5	16QAM	12	0	12.65	12.34	12.62				
5	16QAM	12	7	12.58	12.45	12.60				
5	16QAM	12	13	12.45	12.33	12.40	14	0		
5	16QAM	25	0	12.20	12.34	12.20				
5	64QAM	1	0	12.54	12.65	12.63				
5	64QAM	1	12	12.43	12.59	12.53	14	0		
5	64QAM	1	24	12.48	12.57	12.62				
5	64QAM	12	0	12.54	12.48	12.61				
5	64QAM	12	7	12.52	12.47	12.60	14	0		
5	64QAM	12	13	12.34	12.57	12.50				
5	64QAM	25	0	12.27	12.59	12.40				
Channel										
Frequency (MHz)										
3	QPSK	1	0	12.40	12.33	12.61	14	0		
3	QPSK	1	8	12.30	12.45	12.73				
3	QPSK	1	14	12.58	12.35	12.72				
3	QPSK	8	0	12.34	12.67	12.83	14	0		
3	QPSK	8	4	12.69	12.48	12.37				
3	QPSK	8	7	12.35	12.42	12.62				
3	QPSK	15	0	12.68	12.54	12.85	14	0		
3	16QAM	1	0	12.91	12.65	12.90				
3	16QAM	1	8	12.75	12.89	12.73				
3	16QAM	1	14	12.78	12.82	12.89	14	0		
3	16QAM	8	0	12.78	12.67	12.94				
3	16QAM	8	4	12.69	12.54	12.72				
3	16QAM	8	7	12.58	12.56	12.52	14	0		
3	16QAM	15	0	12.33	12.43	12.32				
3	64QAM	1	0	12.67	12.74	12.78				
3	64QAM	1	8	12.58	12.68	12.65	14	0		
3	64QAM	1	14	12.61	12.66	12.74				
3	64QAM	8	0	12.67	12.57	12.73				
3	64QAM	8	4	12.65	12.56	12.72	14	0		
3	64QAM	8	7	12.47	12.68	12.52				
3	64QAM	15	0	12.40	12.68	12.52				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	12.69	12.74	12.58	14	0		
1.4	QPSK	1	3	12.58	12.74	12.70				
1.4	QPSK	1	5	12.58	12.36	12.69				
1.4	QPSK	3	0	12.33	12.30	12.80	14	0		
1.4	QPSK	3	1	12.37	12.34	12.34				
1.4	QPSK	3	3	12.58	12.44	12.59				
1.4	QPSK	6	0	12.58	12.45	12.82	14	0		
1.4	16QAM	1	0	12.60	12.65	12.67				
1.4	16QAM	1	3	12.69	12.65	12.70				
1.4	16QAM	1	5	12.89	12.87	12.93	14	0		
1.4	16QAM	3	0	12.47	12.54	12.91				
1.4	16QAM	3	1	12.57	12.47	12.69				
1.4	16QAM	3	3	12.85	12.89	12.89	14	0		
1.4	16QAM	6	0	12.47	12.50	12.29				
1.4	64QAM	1	0	12.80	12.75	12.89				
1.4	64QAM	1	3	12.80	12.73	12.62	14	0		
1.4	64QAM	1	5	12.79	12.72	12.71				
1.4	64QAM	3	0	12.58	12.24	12.70				
1.4	64QAM	3	1	12.45	12.45	12.69	14	0		
1.4	64QAM	3	3	12.37	12.40	12.59				
1.4	64QAM	6	0	12.32	12.24	12.49				

Band 66										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 133072	Power Middle Ch./Freq. 133272	Power High Ch./Freq. 133572	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	14.49	14.80	14.66	15	0		
20	QPSK	1	49	14.40	14.61	14.49				
20	QPSK	1	99	14.51	14.50	14.61				
20	QPSK	50	0	14.60	14.72	14.62	15	0		
20	QPSK	50	24	14.54	14.64	14.60				
20	QPSK	50	50	14.55	14.45	14.50				
20	QPSK	100	0	14.37	14.68	14.61	15	0		
20	16QAM	1	0	14.70	1					

Band 41 / Band 41 HPUE(2.6G Band)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	12.48	12.23	12.63	12.31	12.21	13	0
20	QPSK	1	49	12.32	12.36	12.30	12.29	12.48		
20	QPSK	1	99	12.26	12.30	12.13	12.28	12.31		
20	QPSK	50	0	11.92	11.84	12.18	11.93	11.91	13	0
20	QPSK	50	24	11.90	11.81	11.76	11.98	11.73		
20	QPSK	50	50	11.86	11.87	11.70	11.94	11.98		
20	QPSK	100	0	11.98	12.01	12.16	11.97	11.90	13	0
20	16QAM	1	0	12.39	12.44	12.39	12.45	12.40		
20	16QAM	1	49	12.34	12.35	12.01	12.06	12.04		
20	16QAM	1	99	12.45	12.49	12.44	12.45	12.44	13	0
20	16QAM	50	0	11.92	11.93	11.82	12.01	11.90		
20	16QAM	50	24	12.03	11.89	11.80	11.90	11.84		
20	16QAM	50	50	12.09	12.06	11.82	11.91	11.94	13	0
20	16QAM	100	0	11.91	11.92	11.88	11.98	11.96		
20	64QAM	1	0	12.23	12.25	12.27	12.23	12.44		
20	64QAM	1	49	12.01	12.08	12.25	12.21	12.31	13	0
20	64QAM	1	99	12.48	12.34	12.23	12.43	12.06		
20	64QAM	50	0	11.94	11.96	11.80	12.05	11.95		
20	64QAM	50	24	11.94	11.87	11.79	11.93	11.71	13	0
20	64QAM	50	50	12.07	12.01	11.80	12.00	11.92		
20	64QAM	100	0	11.93	11.95	11.72	11.98	11.93		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	11.69	11.72	11.55	11.53	11.79	13	0
15	QPSK	1	37	11.91	11.83	11.85	11.95	11.85		
15	QPSK	1	74	11.98	11.80	11.79	11.83	11.85		
15	QPSK	36	0	12.03	11.94	11.74	11.94	11.83	13	0
15	QPSK	36	20	11.98	11.86	11.77	11.96	11.86		
15	QPSK	36	39	11.93	11.82	11.77	11.88	11.80		
15	QPSK	75	0	12.00	11.90	11.72	11.91	11.79	13	0
15	16QAM	1	0	12.23	12.33	12.03	12.15	12.06		
15	16QAM	1	37	12.02	11.94	11.99	12.13	11.97		
15	16QAM	1	74	12.35	12.01	11.85	12.27	12.10	13	0
15	16QAM	36	0	11.98	12.00	11.73	11.95	12.01		
15	16QAM	36	20	12.02	11.93	11.80	11.89	11.99		
15	16QAM	36	39	11.99	11.89	11.77	11.88	11.90	13	0
15	16QAM	75	0	11.93	11.86	11.72	11.97	12.05		
15	64QAM	1	0	12.31	12.18	11.84	12.10	11.90		
15	64QAM	1	37	12.21	12.21	11.86	12.10	12.01	13	0
15	64QAM	1	74	12.16	11.99	12.01	11.88	11.94		
15	64QAM	36	0	12.01	11.98	11.76	11.94	11.96		
15	64QAM	36	20	11.98	11.90	11.89	12.00	12.02	13	0
15	64QAM	36	39	12.04	11.95	11.86	11.88	11.93		
15	64QAM	75	0	12.07	11.90	11.80	11.89	11.88		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	11.83	11.88	11.84	12.06	12.02	13	0
10	QPSK	1	25	11.88	11.84	11.95	11.91	11.83		
10	QPSK	1	49	12.24	12.16	11.74	11.98	11.80		
10	QPSK	25	0	12.00	11.96	11.80	12.03	11.94	13	0
10	QPSK	25	12	11.98	11.92	11.81	11.98	11.86		
10	QPSK	25	25	11.97	11.89	11.85	11.93	11.82		
10	QPSK	50	0	11.98	12.01	11.76	12.00	11.90	13	0
10	16QAM	1	0	12.36	12.41	12.10	12.44	12.37		
10	16QAM	1	25	12.26	12.29	12.01	12.02	12.04		
10	16QAM	1	49	12.45	12.45	12.06	12.35	12.01	13	0
10	16QAM	25	0	11.94	11.92	11.85	11.98	12.00		
10	16QAM	25	12	12.02	11.88	11.78	12.02	11.93		
10	16QAM	25	25	12.00	11.83	11.82	11.99	11.89	13	0
10	16QAM	50	0	12.02	11.96	11.71	11.93	11.86		
10	64QAM	1	0	12.29	12.35	12.26	12.31	12.18		
10	64QAM	1	25	12.24	12.19	12.21	12.21	12.21	13	0
10	64QAM	1	49	12.34	12.30	11.88	12.16	11.99		
10	64QAM	25	0	11.95	11.97	11.88	12.01	11.98		
10	64QAM	25	12	12.05	11.92	11.79	11.98	11.90	13	0
10	64QAM	25	25	12.04	11.87	11.79	12.04	11.95		
10	64QAM	50	0	12.04	12.01	11.79	12.07	11.90		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2496.5	2546.8	2593	2640.30	2687.5		
5	QPSK	1	0	12.19	12.23	12.24	12.18	12.24	13	0
5	QPSK	1	12	12.30	12.35	12.22	12.15	12.16		
5	QPSK	1	24	12.45	12.42	12.29	12.33	12.31		
5	QPSK	12	0	12.46	12.43	12.37	12.27	12.35	13	0
5	QPSK	12	7	12.23	12.31	12.25	12.24	12.27		
5	QPSK	12	13	12.29	12.32	12.30	12.26	12.17		
5	QPSK	25	0	12.48	12.47	12.35	12.23	12.26	13	0
5	16QAM	1	0	12.46	12.44	12.43	12.54	12.55		
5	16QAM	1	12	12.43	12.55	12.46	12.29	12.54		
5	16QAM	1	24	12.41	12.31	12.60	12.42	12.61	13	0
5	16QAM	12	0	12.24	12.25	12.42	12.28	12.37		
5	16QAM	12	7	12.16	12.22	12.35	12.26	12.30		
5	16QAM	12	13	12.17	12.11	12.36	12.29	12.29	13	0
5	16QAM	25	0	12.25	12.30	12.38	12.25	12.38		
5	64QAM	1	0	12.54	12.62	12.40	12.62	12.50		
5	64QAM	1	12	12.37	12.46	12.18	12.18	12.22	13	0
5	64QAM	1	24	12.24	12.24	12.50	12.50	12.38		
5	64QAM	12	0	12.24	12.26	12.37	12.25	12.35		
5	64QAM	12	7	12.21	12.28	12.31	12.23	12.27	13	0
5	64QAM	12	13	12.17	12.26	12.25	12.16	12.31		
5	64QAM	25	0	12.24	12.22	12.34	12.28	12.39		



Reduced Power Mode for Handheld on(EN-DC)

Table for Band 2 (1900MHz Band) Part 24E, showing parameters for various modulation schemes (QPSK, 16QAM, 64QAM) across different RB sizes and offsets, with columns for Power Low, Power High, and MPR.

Table for Band 25 (1900MHz Band) Part 24E, showing parameters for various modulation schemes (QPSK, 16QAM, 64QAM) across different RB sizes and offsets, with columns for Power Low, Power High, and MPR.

Table for Band 66, showing parameters for various modulation schemes (QPSK, 16QAM, 64QAM) across different RB sizes and offsets, with columns for Power Low, Power High, and MPR.



Band 41/Band 41 HPUE (2.6G Band)										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Low Middle Ch. / Freq	Power Middle Ch. / Freq	Power High Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.56	20.65	20.77	20.54	20.67	21	0
20	QPSK	1	49	20.33	20.43	20.44	20.45	20.54		
20	QPSK	1	99	20.54	20.65	20.49	20.45	20.43		
20	QPSK	50	0	20.48	20.43	20.56	20.54	20.45		
20	QPSK	50	24	20.49	20.38	20.32	20.26	20.12		
20	QPSK	50	50	20.45	20.37	20.65	20.34	20.43	21	0
20	QPSK	100	0	20.48	20.37	20.32	20.16	20.05		
20	16QAM	1	0	20.48	20.29	20.27	20.04	20.34		
20	16QAM	1	49	20.43	20.33	20.19	20.26	20.07		
20	16QAM	1	99	20.45	20.39	20.25	20.32	20.03		
20	16QAM	50	0	20.52	20.33	20.28	20.24	20.21	21	0
20	16QAM	50	24	20.5	20.41	20.37	20.28	20.14		
20	16QAM	50	50	20.49	20.40	20.37	20.14	20.12		
20	16QAM	100	0	20.49	20.41	20.34	20.18	20.07		
20	64QAM	1	0	20.22	20.13	20.13	20.21	20.00		
20	64QAM	1	49	20.18	20.07	20.11	20.06	20.12	21	0
20	64QAM	1	99	20.22	20.13	20.14	20.12	20.02		
20	64QAM	50	0	20.43	20.26	20.22	20.18	20.14		
20	64QAM	50	24	20.45	20.35	20.29	20.25	20.07		
20	64QAM	50	50	20.41	20.35	20.30	20.09	20.05		
20	64QAM	100	0	20.52	20.43	20.39	20.22	20.10		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	20.39	20.52	20.47	20.28	20.32	21	0
15	QPSK	1	37	20.54	20.54	20.44	20.45	20.24		
15	QPSK	1	74	20.60	20.65	20.60	20.17	20.26		
15	QPSK	36	0	20.73	20.71	20.56	20.51	20.30		
15	QPSK	36	20	20.73	20.70	20.61	20.55	20.43		
15	QPSK	36	39	20.72	20.68	20.59	20.46	20.42	21	0
15	QPSK	75	0	20.76	20.70	20.66	20.51	20.38		
15	16QAM	1	0	20.75	20.69	20.58	20.48	20.31		
15	16QAM	1	37	20.63	20.57	20.46	20.50	20.53		
15	16QAM	1	74	20.76	20.56	20.64	20.33	20.47		
15	16QAM	36	0	20.70	20.67	20.52	20.48	20.27	21	0
15	16QAM	36	20	20.73	20.66	20.58	20.52	20.36		
15	16QAM	36	39	20.72	20.68	20.57	20.42	20.37		
15	16QAM	75	0	20.67	20.74	20.65	20.51	20.43		
15	64QAM	1	0	20.62	20.49	20.36	20.54	20.34		
15	64QAM	1	37	20.57	20.40	20.39	20.26	20.39	21	0
15	64QAM	1	74	20.52	20.54	20.51	20.43	20.40		
15	64QAM	36	0	20.75	20.72	20.54	20.52	20.32		
15	64QAM	36	20	20.76	20.70	20.62	20.57	20.43		
15	64QAM	36	39	20.75	20.71	20.62	20.45	20.40		
15	64QAM	75	0	20.66	20.70	20.75	20.52	20.39		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	20.35	20.05	20.20	20.33	20.35	21	0
10	QPSK	1	25	20.36	20.25	20.26	20.09	20.34		
10	QPSK	1	49	20.20	20.24	20.25	20.34	20.22		
10	QPSK	25	0	20.53	20.39	20.37	20.25	20.11		
10	QPSK	25	12	20.54	20.43	20.36	20.34	20.15		
10	QPSK	25	25	20.52	20.44	20.35	20.21	20.07	21	0
10	QPSK	50	0	20.53	20.43	20.38	20.25	20.06		
10	16QAM	1	0	20.61	20.39	20.41	20.32	20.43		
10	16QAM	1	25	20.58	20.37	20.37	20.30	20.19		
10	16QAM	1	49	20.51	20.43	20.35	20.31	20.32		
10	16QAM	25	0	20.50	20.39	20.34	20.21	20.08	21	0
10	16QAM	25	12	20.54	20.48	20.42	20.38	20.20		
10	16QAM	25	25	20.42	20.39	20.34	20.23	20.04		
10	16QAM	50	0	20.51	20.46	20.41	20.26	20.09		
10	64QAM	1	0	20.40	20.45	20.18	20.43	20.32		
10	64QAM	1	25	20.45	20.29	20.13	20.20	20.45	21	0
10	64QAM	1	49	20.49	20.38	20.31	20.06	20.34		
10	64QAM	25	0	20.47	20.35	20.30	20.23	20.07		
10	64QAM	25	12	20.53	20.47	20.39	20.40	20.15		
10	64QAM	25	25	20.50	20.39	20.32	20.18	20.03		
10	64QAM	50	0	20.48	20.42	20.33	20.24	20.07		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	20.41	20.32	20.24	20.22	19.96	21	0
5	QPSK	1	12	20.39	20.37	20.28	20.35	20.07		
5	QPSK	1	24	20.37	20.24	20.19	20.19	20.00		
5	QPSK	12	0	20.47	20.38	20.39	20.32	20.17		
5	QPSK	12	7	20.50	20.43	20.42	20.35	20.23		
5	QPSK	12	13	20.45	20.39	20.40	20.32	20.16	21	0
5	QPSK	25	0	20.44	20.37	20.39	20.31	20.14		
5	16QAM	1	0	20.50	20.45	20.37	20.34	20.23		
5	16QAM	1	12	20.56	20.50	20.55	20.45	20.30		
5	16QAM	1	24	20.56	20.44	20.46	20.33	20.19		
5	16QAM	12	0	20.45	20.37	20.39	20.29	20.13	21	0
5	16QAM	12	7	20.50	20.37	20.39	20.34	20.16		
5	16QAM	12	13	20.43	20.38	20.39	20.27	20.17		
5	16QAM	25	0	20.49	20.43	20.44	20.33	20.17		
5	64QAM	1	0	20.29	20.16	20.12	20.10	19.94		
5	64QAM	1	12	20.26	20.22	20.15	20.08	19.95	21	0
5	64QAM	1	24	20.31	20.18	20.19	20.07	20.15		
5	64QAM	12	0	20.44	20.36	20.36	20.29	20.35		
5	64QAM	12	7	20.47	20.40	20.40	20.31	20.14		
5	64QAM	12	13	20.43	20.36	20.36	20.28	20.11		
5	64QAM	25	0	20.48	20.36	20.37	20.28	20.15		





### Full Power Mode

n2 (only SCS15KHz has 5M BW)									
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				372000	376000	380000			
Frequency (MHz)				1860	1860	1900			
20	PI2 BPSK	1	1	23.27	23.39	23.21			
20	PI2 BPSK	1	53	23.27	23.26	23.28	24.0	0.0	
20	PI2 BPSK	1	104	23.34	23.12	23.14			
20	PI2 BPSK	50	0	22.80	22.80	22.74			
20	PI2 BPSK	50	28	23.12	23.10	23.04	24.0	0.0	
20	PI2 BPSK	50	56	22.74	22.89	22.84			
20	PI2 BPSK	100	0	22.84	22.87	22.80	23.5	0.5	
20	QPSK	1	1	23.19	23.25	23.20			
20	QPSK	1	53	23.20	23.25	23.16	24.0	0.0	
20	QPSK	1	104	23.05	23.03	22.98			
20	QPSK	50	0	22.36	22.31	22.28			
20	QPSK	50	28	23.29	23.16	23.15	24.0	0.0	
20	QPSK	50	56	22.38	22.27	22.20			
20	QPSK	100	0	22.25	22.31	22.24	23.0	1.0	
20	16QAM	1	1	22.45	22.43	22.35	23.0	1.0	
20	64QAM	1	1	21.06	20.80	20.95	21.5	2.5	
20	256QAM	1	1	18.94	18.54	18.61	19.5	4.5	
Channel				371500	376000	380500			
Frequency (MHz)				1857.5	1880	1902.5			
15	PI2 BPSK	1	1	23.28	23.24	23.06	24.0	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1855	1880	1905			
10	PI2 BPSK	1	1	23.10	23.07	22.98	24.0	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1880	1907.5			
5	PI2 BPSK	1	1	23.14	23.10	23.04	24.0	0.0	

n5 (only SCS15KHz has 5M BW)									
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				166800	167300	167800			
Frequency (MHz)				834	835.5	837			
20	PI2 BPSK	1	1	23.28	23.31	23.25			
20	PI2 BPSK	1	53	22.98	23.30	22.82	24.0	0.0	
20	PI2 BPSK	1	104	23.04	23.03	22.73			
20	PI2 BPSK	50	0	22.35	22.85	22.38			
20	PI2 BPSK	50	28	22.80	22.88	22.60	24.0	0.0	
20	PI2 BPSK	50	56	22.30	22.44	22.13			
20	PI2 BPSK	100	0	22.57	22.63	22.10	23.5	0.5	
20	QPSK	1	1	23.07	22.95	22.95			
20	QPSK	1	53	23.13	22.94	22.77	24.0	0.0	
20	QPSK	1	104	23.17	22.91	22.66			
20	QPSK	50	0	22.58	22.65	22.74			
20	QPSK	50	28	22.81	22.70	22.86	24.0	0.0	
20	QPSK	50	56	22.84	22.65	22.57			
20	QPSK	100	0	21.91	21.28	20.38	23.0	1.0	
20	16QAM	1	1	22.11	22.23	22.02	23.0	1.0	
20	64QAM	1	1	20.68	20.33	20.25	21.5	2.5	
20	256QAM	1	1	18.15	18.37	18.19	19.5	4.5	
Channel				166300	167300	168300			
Frequency (MHz)				831.5	836.5	841.5			
15	PI2 BPSK	1	1	23.19	23.17	22.99	24.0	0.0	
Channel				165800	167300	168800			
Frequency (MHz)				829	835.5	841			
10	PI2 BPSK	1	1	23.14	22.99	22.78	24.0	0.0	
Channel				165300	167300	169300			
Frequency (MHz)				826.5	836.5	846.5			
5	PI2 BPSK	1	1	23.25	23.07	22.87	24.0	0.0	

n25									
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				372000	376500	381000			
Frequency (MHz)				1860	1862.5	1905			
20	PI2 BPSK	1	1	23.22	23.23	22.90			
20	PI2 BPSK	1	53	23.12	23.04	22.85	24.0	0.0	
20	PI2 BPSK	1	104	23.17	23.02	22.81			
20	PI2 BPSK	50	0	22.69	23.11	22.52			
20	PI2 BPSK	50	28	23.10	23.03	22.99	24.0	0.0	
20	PI2 BPSK	50	56	22.70	22.56	22.49			
20	PI2 BPSK	100	0	22.71	22.81	22.51	23.5	0.5	
20	QPSK	1	1	23.20	23.17	23.07			
20	QPSK	1	53	23.15	23.03	23.03	24.0	0.0	
20	QPSK	1	104	23.21	23.02	22.90			
20	QPSK	50	0	22.20	22.29	22.08			
20	QPSK	50	28	23.15	22.15	22.96	24.0	0.0	
20	QPSK	50	56	22.23	22.13	21.97			
20	QPSK	100	0	22.24	22.08	22.02	23.0	1.0	
20	16QAM	1	1	22.28	22.40	22.47	23.0	1.0	
20	64QAM	1	1	20.65	20.69	20.92	21.5	2.5	
20	256QAM	1	1	18.35	18.73	18.56	19.5	4.5	
Channel				371500	376500	381500			
Frequency (MHz)				1857.5	1882.5	1907.5			
15	PI2 BPSK	1	1	23.17	22.98	22.13	24.0	0.0	
Channel				371000	376500	382000			
Frequency (MHz)				1855	1882.5	1910			
10	PI2 BPSK	1	1	23.13	23.05	23.08	24.0	0.0	
Channel				370500	376500	382500			
Frequency (MHz)				1852.5	1882.5	1912.5			
5	PI2 BPSK	1	1	23.05	23.12	23.06	24.0	0.0	



n66 (only SCS15KHz has 5M BW)									
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				344000	349000	354000			
Frequency (MHz)				172	1745	1770			
20	PI2 BPSK	1	1	23.06	23.27	23.00	24.0	0.0	
20	PI2 BPSK	1	53	23.10	23.20	23.01			
20	PI2 BPSK	1	104	23.06	23.12	23.05			
20	PI2 BPSK	50	0	22.96	22.96	22.99			
20	PI2 BPSK	50	28	22.91	22.90	22.87	24.0	0.0	
20	PI2 BPSK	50	56	22.82	22.84	22.49			
20	PI2 BPSK	100	0	22.44	22.58	22.55	23.5	0.5	
20	QPSK	1	1	23.07	23.20	23.13			
20	QPSK	1	53	23.15	23.25	23.16	24.0	0.0	
20	QPSK	1	104	22.98	23.06	22.94			
20	QPSK	50	0	22.07	22.15	22.03			
20	QPSK	50	28	23.05	23.08	23.02	24.0	0.0	
20	QPSK	50	56	22.02	22.11	21.97			
20	QPSK	100	0	22.08	22.16	22.05	23.0	1.0	
20	16QAM	1	1	22.25	22.35	22.33	23.0	1.0	
20	64QAM	1	1	20.88	21.04	21.02	21.5	2.5	
20	256QAM	1	1	18.85	18.74	18.61	19.5	4.5	
Channel				343500	349000	354500			
Frequency (MHz)				1717.5	1745	1772.5			
15	PI2 BPSK	1	1	22.99	23.15	22.95	24.0	0.0	
Channel				343000	349000	353000			
Frequency (MHz)				1715	1745	1775			
10	PI2 BPSK	1	1	22.98	23.14	22.89	24.0	0.0	
Channel				342500	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5			
5	PI2 BPSK	1	1	22.91	23.09	22.82	24.0	0.0	

n71 (only SCS15KHz has 5M BW)									
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				134000	136100	137600			
Frequency (MHz)				67	681.5	686			
20	PI2 BPSK	1	1	23.15	23.49	23.49			
20	PI2 BPSK	1	53	23.00	23.39	23.39	24.0	0.0	
20	PI2 BPSK	1	104	23.05	23.16	23.16			
20	PI2 BPSK	50	0	22.85	23.25	22.94			
20	PI2 BPSK	50	28	23.03	23.20	23.25	24.0	0.0	
20	PI2 BPSK	50	56	22.70	22.81	22.91			
20	PI2 BPSK	100	0	22.72	22.72	22.72	23.5	0.5	
20	QPSK	1	1	22.90	23.40	23.40			
20	QPSK	1	53	23.28	23.38	23.39	24.0	0.0	
20	QPSK	1	104	23.09	23.13	23.13			
20	QPSK	50	0	22.25	23.36	23.36			
20	QPSK	50	28	23.17	23.35	23.35	24.0	0.0	
20	QPSK	50	56	22.21	22.41	22.41			
20	QPSK	100	0	22.30	22.33	22.33	23.0	1.0	
20	16QAM	1	1	22.05	22.75	22.75	23.0	1.0	
20	64QAM	1	1	20.28	21.36	21.36	21.5	2.5	
20	256QAM	1	1	18.40	18.99	18.99	19.5	4.5	
Channel				134100	136100	138100			
Frequency (MHz)				67.5	680.5	690.5			
15	PI2 BPSK	1	1	23.28	23.17	23.01	24.0	0.0	
Channel				133600	136100	138500			
Frequency (MHz)				66	680.5	693			
10	PI2 BPSK	1	1	23.17	22.94	23.10	24.0	0.0	
Channel				133100	136100	139100			
Frequency (MHz)				65.5	680.5	695.5			
5	PI2 BPSK	1	1	23.37	23.13	23.08	24.0	0.0	



n12								
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				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI/2 BPSK	1	1	23.26	23.46	23.21		
15	PI/2 BPSK	1	40	23.05	23.27	23.16	24.0	0.0
15	PI/2 BPSK	1	77	23.08	23.42	23.11		
15	PI/2 BPSK	36	0	22.61	23.07	22.71		
15	PI/2 BPSK	36	22	23.02	23.00	23.03	24.0	0.0
15	PI/2 BPSK	36	43	22.70	22.81	23.01		
15	PI/2 BPSK	75	0	20.09	21.86	22.75	23.5	0.5
15	QPSK	1	1	23.11	23.15	23.25		
15	QPSK	1	40	23.04	23.11	23.03	24.0	0.0
15	QPSK	1	77	23.01	23.04	23.10		
15	QPSK	36	0	22.16	22.12	22.27		
15	QPSK	36	22	23.04	23.00	23.15	24.0	0.0
15	QPSK	36	43	22.89	23.01	22.71		
15	QPSK	75	0	22.17	22.14	22.14	23.0	1.0
15	16QAM	1	1	22.71	22.26	22.85	23.0	1.0
15	64QAM	1	1	20.67	20.58	20.86	21.5	2.5
15	256QAM	1	1	18.59	18.55	18.81	19.5	4.5
Channel				140800	141500	142200		
Frequency (MHz)				704	707.5	711		
10	PI/2 BPSK	1	1	23.06	23.00	23.02	24.0	0.0
Channel				140300	141500	142700		
Frequency (MHz)				701.5	707.5	713.5		
5	PI/2 BPSK	1	1	23.22	23.07	23.12	24.0	0.0



n41 for FCC								
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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	23.80	23.74	23.70		
100	PI/2 BPSK	1	137	23.14	23.30	23.35	24.0	0.0
100	PI/2 BPSK	1	271	22.77	22.65	22.57		
100	PI/2 BPSK	135	0	23.22	23.37	23.00		
100	PI/2 BPSK	135	69	22.99	23.35	23.12	24.0	0.0
100	PI/2 BPSK	135	138	22.85	23.27	22.98		
100	PI/2 BPSK	270	0	22.70	23.00	22.87	24.0	0.0
100	QPSK	1	1	22.61	22.50	22.70		
100	QPSK	1	137	23.08	23.25	23.10	24.0	0.0
100	QPSK	1	271	22.73	22.70	22.65		
100	QPSK	135	0	23.43	22.94	23.11		
100	QPSK	135	69	23.34	23.50	23.29	24.0	0.0
100	QPSK	135	138	22.78	23.40	22.99		
100	QPSK	270	0	22.84	23.02	22.90	24.0	0.0
100	16QAM	1	1	22.62	22.72	22.13	23.0	1.0
100	64QAM	1	1	22.44	22.65	22.01	23.0	1.0
100	256QAM	1	1	20.78	21.05	20.68	22.0	2.0
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	23.00	23.00	22.91	24.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	22.94	22.81	22.86	24.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	22.80	22.85	22.97	24.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	22.73	22.94	23.00	24.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	22.87	23.27	23.05	24.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	23.12	23.07	22.94	24.0	0.0

n41 for FCC HPUE								
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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	26.52	26.77	25.89		
100	PI/2 BPSK	1	137	25.70	26.76	26.27	27.0	0.0
100	PI/2 BPSK	1	271	25.69	25.21	25.80		
100	PI/2 BPSK	135	0	25.45	26.53	25.56		
100	PI/2 BPSK	135	69	25.84	26.00	26.06	27.0	0.0
100	PI/2 BPSK	135	138	24.64	25.72	25.46		
100	PI/2 BPSK	270	0	25.20	25.86	25.55	27.0	0.5
100	QPSK	1	1	25.71	25.82	25.58		
100	QPSK	1	137	25.65	26.70	26.19	27.0	0.0
100	QPSK	1	271	25.86	25.08	25.50		
100	QPSK	135	0	24.98	25.29	24.83		
100	QPSK	135	69	25.94	26.52	24.88	27.0	0.0
100	QPSK	135	138	24.65	25.20	25.19		
100	QPSK	270	0	24.30	25.37	24.73	26.0	1.0
100	16QAM	1	1	24.72	25.20	24.67	26.0	1.0
100	64QAM	1	1	23.55	23.80	23.53	24.5	2.5
100	256QAM	1	1	20.98	21.34	20.86	22.5	4.5
Channel				508200	518598	528996		
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	26.36	26.31	26.12	27.0	0.0
Channel				507204	518598	529998		
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	26.28	26.20	25.97	27.0	0.0
Channel				505200	518598	531996		
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	26.24	26.15	26.02	27.0	0.0
Channel				504204	518598	532998		
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	26.46	26.30	25.89	27.0	0.0
Channel				503202	518598	534000		
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	26.32	26.25	26.11	27.0	0.0
Channel				501204	518598	535998		
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	26.41	26.25	26.08	27.0	0.0



### Reduced Power Mode for Receiver On

n2 (only SCS15KHz has 5M BW)											
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				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1860	1880	1900					
20	PI2 BPSK	1	1	14.84	15.01	14.90	15.5	0.0			
20	PI2 BPSK	1	53	14.73	14.95	14.96					
20	PI2 BPSK	1	104	14.71	14.96	15.01					
20	PI2 BPSK	50	0	14.21	14.92	14.35	15.5	0.0			
20	PI2 BPSK	50	28	14.70	14.83	14.78					
20	PI2 BPSK	50	55	14.80	14.40	14.81					
20	PI2 BPSK	100	0	14.35	14.20	14.32	15.5	0.0			
20	QPSK	1	1	14.80	14.60	14.82					
20	QPSK	1	53	14.85	14.82	14.82					
20	QPSK	1	104	14.88	14.76	14.82	15.5	0.0			
20	QPSK	50	0	14.91	14.79	14.72					
20	QPSK	50	28	14.52	14.67	14.82					
20	QPSK	50	55	14.90	14.70	14.80	15.5	0.0			
20	QPSK	100	0	14.73	14.91	14.83					
20	16QAM	1	1	14.70	14.82	14.73					
20	64QAM	1	1	14.65	14.86	14.86	15.5	0.0			
20	256QAM	1	1	14.82	14.69	14.78					
Channel				371500	376000	380500			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5					
15	PI2 BPSK	1	1	14.51	14.34	14.43	15.5	0.0			
Channel				371000	376000	381000			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905					
10	PI2 BPSK	1	1	14.24	14.11	14.27	15.5	0.0			
Channel				370500	376000	381500			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5					
5	PI2 BPSK	1	1	14.52	14.71	14.80	15.5	0.0			

n25											
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				378500	378500	381000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1869	1882.5	1905					
20	PI2 BPSK	1	1	14.91	15.09	14.94	15.5	0.0			
20	PI2 BPSK	1	53	14.81	14.98	15.03					
20	PI2 BPSK	1	104	15.00	15.07	15.05					
20	PI2 BPSK	50	0	14.23	14.98	14.37	15.5	0.0			
20	PI2 BPSK	50	28	14.74	14.86	14.80					
20	PI2 BPSK	50	55	14.81	14.39	14.84					
20	PI2 BPSK	100	0	14.38	14.10	14.35	15.5	0.0			
20	QPSK	1	1	14.82	14.63	14.84					
20	QPSK	1	53	14.79	14.85	14.97					
20	QPSK	1	104	14.77	14.84	14.90	15.5	0.0			
20	QPSK	50	0	14.90	14.86	14.78					
20	QPSK	50	28	14.58	14.70	14.87					
20	QPSK	50	55	14.93	14.62	14.93	15.5	0.0			
20	QPSK	100	0	14.76	14.93	14.89					
20	16QAM	1	1	14.71	14.83	14.75					
20	64QAM	1	1	14.67	14.82	14.97	15.5	0.0			
20	256QAM	1	1	14.86	14.73	14.91					
Channel				371500	378500	381500			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5					
15	PI2 BPSK	1	1	14.44	14.30	14.33	15.5	0.0			
Channel				371000	378500	382000			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1892.5	1910					
10	PI2 BPSK	1	1	14.27	14.16	14.34	15.5	0.0			
Channel				370500	378500	382500			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5					
5	PI2 BPSK	1	1	14.59	14.78	14.88	15.5	0.0			

n66 (only SCS15KHz has 5M BW)											
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				346000	346000	354000	Tune-up limit (dBm)	MPR (dB)			
Frequency (MHz)				1720	1745	1770					
20	PI2 BPSK	1	1	14.89	14.99	14.80	15.5	0.0			
20	PI2 BPSK	1	53	14.72	14.81	14.83					
20	PI2 BPSK	1	104	14.76	14.92	14.88					
20	PI2 BPSK	50	0	14.75	14.91	14.71	15.5	0.0			
20	PI2 BPSK	50	28	14.69	14.83	14.80					
20	PI2 BPSK	50	55	14.70	14.96	14.72					
20	PI2 BPSK	100	0	14.75	14.88	14.71	15.5	0.0			
20	QPSK	1	1	14.81	14.93	14.75					
20	QPSK	1	53	14.90	14.97	14.98					
20	QPSK	1	104	14.84	14.93	14.70	15.5	0.0			
20	QPSK	50	0	14.88	14.81	14.82					
20	QPSK	50	28	14.72	14.83	14.86					
20	QPSK	50	55	14.86	14.63	14.99	15.5	0.0			
20	QPSK	100	0	14.99	14.86	14.67					
20	16QAM	1	1	14.70	14.78	14.58					
20	64QAM	1	1	14.69	14.74	14.81	15.5	0.0			
20	256QAM	1	1	14.55	14.66	14.47					
Channel				343500	349000	354500			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5					
15	PI2 BPSK	1	1	14.76	14.82	14.80	15.5	0.0			
Channel				343000	349000	355000			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775					
10	PI2 BPSK	1	1	14.63	14.77	14.83	15.5	0.0			
Channel				342500	349000	355500			Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5					
5	PI2 BPSK	1	1	14.74	14.86	14.88	15.5	0.0			



n41/n41 HPUE for FCC Power Class 2&3								
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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	16.02	16.89	16.04		
100	PI/2 BPSK	1	137	16.09	16.48	16.15	17.0	0.0
100	PI/2 BPSK	1	271	15.15	15.28	15.12		
100	PI/2 BPSK	135	0	16.37	16.87	16.51		
100	PI/2 BPSK	135	69	16.47	16.75	16.53	17.0	0.0
100	PI/2 BPSK	135	138	15.84	16.12	15.97		
100	PI/2 BPSK	270	0	15.38	15.69	15.55	17.0	0.0
100	QPSK	1	1	15.26	15.48	15.33		
100	QPSK	1	137	15.97	16.30	16.05	17.0	0.0
100	QPSK	1	271	15.23	15.20	15.13		
100	QPSK	135	0	16.42	16.76	16.42		
100	QPSK	135	69	16.44	16.79	16.49	17.0	0.0
100	QPSK	135	138	15.78	15.96	15.75		
100	QPSK	270	0	16.09	16.43	16.14	17.0	0.0
100	16QAM	1	1	15.32	15.38	15.43	17.0	0.0
100	64QAM	1	1	15.25	15.36	15.30	17.0	0.0
100	256QAM	1	1	15.36	15.29	15.18	17.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	15.53	15.78	15.42	17.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	15.42	15.86	15.56	17.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	15.44	15.63	15.37	17.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	15.57	15.81	15.59	17.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	15.76	16.05	15.68	17.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	15.48	15.75	15.41	17.0	0.0



### Reduced Power Mode for Sensor On&Hotspot on

n2 (only SCS15KHz has 5M BW)									
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				372000	376000	380000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	14.84	15.01	14.90	15.5	0.0	
20	PI/2 BPSK	1	53	14.73	14.95	14.96			
20	PI/2 BPSK	1	104	14.71	14.96	15.01			
20	PI/2 BPSK	50	0	14.21	14.92	14.35	15.5	0.0	
20	PI/2 BPSK	50	28	14.70	14.83	14.76			
20	PI/2 BPSK	50	56	14.60	14.40	14.61			
20	PI/2 BPSK	100	0	14.35	14.20	14.32	15.5	0.0	
20	QPSK	1	1	14.80	14.60	14.82	15.5	0.0	
20	QPSK	1	53	14.85	14.82	14.92			
20	QPSK	1	104	14.88	14.76	14.82			
20	QPSK	50	0	14.91	14.79	14.72	15.5	0.0	
20	QPSK	50	28	14.52	14.67	14.82			
20	QPSK	50	56	14.90	14.79	14.90			
20	QPSK	100	0	14.73	14.91	14.83	15.5	0.0	
20	16QAM	1	1	14.70	14.82	14.73	15.5	0.0	
20	64QAM	1	1	14.65	14.80	14.86	15.5	0.0	
20	256QAM	1	1	14.82	14.69	14.78	15.5	0.0	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	PI/2 BPSK	1	1	14.51	14.34	14.43	15.5	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	PI/2 BPSK	1	1	14.24	14.11	14.27	15.5	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	PI/2 BPSK	1	1	14.52	14.71	14.80	15.5	0.0	

n5 (Sensor & Hotspot)									
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				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	23.26	23.31	22.95	23.5	0.0	
20	PI/2 BPSK	1	53	22.98	23.30	22.82			
20	PI/2 BPSK	1	104	23.04	23.03	22.73			
20	PI/2 BPSK	50	0	22.35	22.85	22.38	23.5	0.0	
20	PI/2 BPSK	50	28	22.80	22.68	22.60			
20	PI/2 BPSK	50	56	22.30	22.44	22.13			
20	PI/2 BPSK	100	0	22.57	22.63	22.10	23.0	0.5	
20	QPSK	1	1	23.07	22.95	22.95	23.5	0.0	
20	QPSK	1	53	23.13	22.94	22.77			
20	QPSK	1	104	23.17	22.91	22.66			
20	QPSK	50	0	22.58	22.65	22.74	23.5	0.0	
20	QPSK	50	28	22.81	22.70	22.86			
20	QPSK	50	56	22.84	22.65	22.57			
20	QPSK	100	0	21.91	21.29	20.36	22.5	1.0	
20	16QAM	1	1	22.11	22.23	22.02	22.5	1.0	
20	64QAM	1	1	20.68	20.33	20.25	21.0	2.5	
20	256QAM	1	1	18.15	18.37	18.19	19.0	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	PI/2 BPSK	1	1	23.19	23.17	22.99	23.5	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	PI/2 BPSK	1	1	23.14	22.99	22.76	23.5	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	PI/2 BPSK	1	1	23.25	23.07	22.87	23.5	0.0	



n25 (Sensor&Hotspot)									
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				372000	376500	381000			
Frequency (MHz)				1860	1882.5	1905	Tune-up limit (dBm)	MPR (dB)	
20	PI/2 BPSK	1	1	14.91	15.09	14.94	15.5	0.0	
20	PI/2 BPSK	1	53	14.81	14.98	15.03			
20	PI/2 BPSK	1	104	15.00	15.07	15.05			
20	PI/2 BPSK	50	0	14.23	14.98	14.37	15.5	0.0	
20	PI/2 BPSK	50	28	14.74	14.86	14.80			
20	PI/2 BPSK	50	56	14.61	14.39	14.64			
20	PI/2 BPSK	100	0	14.38	14.19	14.35	15.5	0.0	
20	QPSK	1	1	14.82	14.63	14.84	15.5	0.0	
20	QPSK	1	53	14.79	14.85	14.97			
20	QPSK	1	104	14.77	14.84	14.90			
20	QPSK	50	0	14.90	14.86	14.76	15.5	0.0	
20	QPSK	50	28	14.58	14.70	14.87			
20	QPSK	50	56	14.93	14.82	14.93			
20	QPSK	100	0	14.78	14.93	14.89	15.5	0.0	
20	16QAM	1	1	14.71	14.83	14.75	15.5	0.0	
20	64QAM	1	1	14.67	14.82	14.97	15.5	0.0	
20	256QAM	1	1	14.86	14.73	14.91	15.5	0.0	
Channel				371500	376500	381500			
Frequency (MHz)				1857.5	1882.5	1907.5	Tune-up limit (dBm)	MPR (dB)	
15	PI/2 BPSK	1	1	14.48	14.39	14.51	15.5	0.0	
Channel				371000	376500	382000			
Frequency (MHz)				1855	1882.5	1910	Tune-up limit (dBm)	MPR (dB)	
10	PI/2 BPSK	1	1	14.27	14.16	14.34	15.5	0.0	
Channel				370500	376500	382500			
Frequency (MHz)				1852.5	1882.5	1912.5	Tune-up limit (dBm)	MPR (dB)	
5	PI/2 BPSK	1	1	14.59	14.78	14.86	15.5	0.0	

n66 (only SCS15KHz has 5M BW)									
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				344000	349000	354000			
Frequency (MHz)				1720	1745	1770	Tune-up limit (dBm)	MPR (dB)	
20	PI/2 BPSK	1	1	15.97	16.28	15.93	17.0	0.0	
20	PI/2 BPSK	1	53	15.67	16.12	15.83			
20	PI/2 BPSK	1	104	15.92	16.13	15.70			
20	PI/2 BPSK	50	0	15.98	16.09	15.91	17.0	0.0	
20	PI/2 BPSK	50	28	15.74	16.07	15.65			
20	PI/2 BPSK	50	56	15.75	16.04	15.66			
20	PI/2 BPSK	100	0	15.81	16.13	15.71	17.0	0.0	
20	QPSK	1	1	15.87	16.06	15.81	17.0	0.0	
20	QPSK	1	53	15.67	16.09	15.65			
20	QPSK	1	104	15.73	16.03	15.63			
20	QPSK	50	0	15.73	16.04	15.73	17.0	0.0	
20	QPSK	50	28	15.65	16.13	15.63			
20	QPSK	50	56	15.78	15.99	15.66			
20	QPSK	100	0	15.68	16.01	15.71	17.0	0.0	
20	16QAM	1	1	15.75	16.20	15.55	17.0	0.0	
20	64QAM	1	1	15.62	15.95	15.58	17.0	0.0	
20	256QAM	1	1	15.59	15.79	15.63	17.0	0.0	
Channel				343500	349000	354500			
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)	MPR (dB)	
15	PI/2 BPSK	1	1	15.91	15.89	15.91	17.0	0.0	
Channel				343000	349000	355000			
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)	MPR (dB)	
10	PI/2 BPSK	1	1	15.75	15.78	15.74	17.0	0.0	
Channel				342500	349000	355500			
Frequency (MHz)				1712.5	1745	1777.5	Tune-up limit (dBm)	MPR (dB)	
5	PI/2 BPSK	1	1	15.79	15.75	15.67	17.0	0.0	





n41/n41 HPUE for FCC								
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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	16.02	16.89	16.04		
100	PI/2 BPSK	1	137	16.09	16.48	16.15	17.0	0.0
100	PI/2 BPSK	1	271	15.15	15.28	15.12		
100	PI/2 BPSK	135	0	16.37	16.87	16.51		
100	PI/2 BPSK	135	69	16.47	16.75	16.53	17.0	0.0
100	PI/2 BPSK	135	138	15.84	16.12	15.97		
100	PI/2 BPSK	270	0	15.38	15.69	15.55	17.0	0.0
100	QPSK	1	1	15.26	15.48	15.33		
100	QPSK	1	137	15.87	16.30	16.05	17.0	0.0
100	QPSK	1	271	15.23	15.20	15.13		
100	QPSK	135	0	16.42	16.76	16.42		
100	QPSK	135	69	16.44	16.79	16.49	17.0	0.0
100	QPSK	135	138	15.78	15.96	15.75		
100	QPSK	270	0	16.09	16.43	16.14	17.0	0.0
100	16QAM	1	1	15.32	15.38	15.43	17.0	0.0
100	64QAM	1	1	15.25	15.36	15.30	17.0	0.0
100	256QAM	1	1	15.36	15.29	15.18	17.0	0.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	15.53	15.78	15.42	17.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	15.42	15.86	15.56	17.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	15.44	15.63	15.37	17.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	15.57	15.81	15.59	17.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	15.76	16.05	15.68	17.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	15.48	15.75	15.41	17.0	0.0



### Reduced Power Mode for Handheld On

n2 (only SCS15KHz has 5M BW)								
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				372000	376000	380000		
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	19.16	19.25	19.05		
20	PI2 BPSK	1	53	19.15	19.23	19.06	19.5	0.0
20	PI2 BPSK	1	104	19.11	19.22	19.01		
20	PI2 BPSK	50	0	19.08	19.19	19.08		
20	PI2 BPSK	50	28	19.07	19.16	19.04	19.5	0.0
20	PI2 BPSK	50	56	19.09	19.17	19.10		
20	PI2 BPSK	100	0	19.09	19.13	19.04	19.5	0.0
20	QPSK	1	1	20.52	20.60	20.55		
20	QPSK	1	53	20.72	20.80	20.68	19.5	0.0
20	QPSK	1	104	20.76	21.00	20.68		
20	QPSK	50	0	20.69	20.81	20.58		
20	QPSK	50	28	20.86	20.79	20.66	19.5	0.0
20	QPSK	50	56	19.15	19.16	19.11		
20	QPSK	100	0	19.17	19.15	19.08	19.5	0.0
20	16QAM	1	1	19.22	19.30	19.11	19.5	0.0
20	16QAM	1	1	19.02	18.89	18.87	19.5	0.0
20	256QAM	1	1	19.14	19.15	19.10	19.5	0.0
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1860	1902.5		
15	PI2 BPSK	1	1	19.10	19.13	19.07	19.5	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1852	1860	1905		
10	PI2 BPSK	1	1	19.02	18.95	18.94	19.5	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1847.5	1860	1907.5		
5	PI2 BPSK	1	1	19.01	18.97	18.96	19.5	0.0

n25								
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				372000	376500	381000		
Frequency (MHz)				1860	1842.5	1905		
20	PI2 BPSK	1	1	19.13	19.20	19.15		
20	PI2 BPSK	1	53	19.15	19.14	19.18	19.5	0.0
20	PI2 BPSK	1	104	19.16	19.16	19.17		
20	PI2 BPSK	50	0	19.17	19.19	19.15		
20	PI2 BPSK	50	28	19.11	19.17	19.13	19.5	0.0
20	PI2 BPSK	50	56	19.13	19.16	19.17		
20	PI2 BPSK	100	0	19.08	19.11	19.01	19.5	0.0
20	QPSK	1	1	19.10	19.07	19.04		
20	QPSK	1	53	19.17	19.20	19.19	19.5	0.0
20	QPSK	1	104	19.16	19.18	19.18		
20	QPSK	50	0	19.10	19.12	19.10		
20	QPSK	50	28	19.13	19.12	19.08	19.5	0.0
20	QPSK	50	56	19.09	19.13	19.11		
20	QPSK	100	0	19.12	19.14	19.13	19.5	S
20	16QAM	1	1	19.01	18.93	18.99	19.5	0.0
20	16QAM	1	1	19.03	19.17	19.07	19.5	0.0
20	256QAM	1	1	18.97	18.92	19.01	19.5	0.0
Channel				371500	376500	381500		
Frequency (MHz)				1857.5	1842.5	1907.5		
15	PI2 BPSK	1	1	19.08	19.20	19.10	19.5	0.0
Channel				371000	376500	382000		
Frequency (MHz)				1855	1842.5	1910		
10	PI2 BPSK	1	1	19.01	18.97	19.02	19.5	0.0
Channel				370500	376500	382500		
Frequency (MHz)				1852.5	1842.5	1912.5		
5	PI2 BPSK	1	1	19.14	19.17	19.20	19.5	0.0

n66 (only SCS15KHz has 5M BW)								
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				344000	349000	354000		
Frequency (MHz)				1723	1745	1770		
20	PI2 BPSK	1	1	19.91	19.99	19.94		
20	PI2 BPSK	1	53	19.83	19.85	19.82	20.5	0.0
20	PI2 BPSK	1	104	19.83	19.88	19.89		
20	PI2 BPSK	50	0	19.90	19.96	19.82		
20	PI2 BPSK	50	28	19.89	19.83	19.81	20.5	0.0
20	PI2 BPSK	50	56	19.88	19.86	19.85		
20	PI2 BPSK	100	0	19.85	19.91	19.84	20.5	0.0
20	QPSK	1	1	19.87	19.84	19.84		
20	QPSK	1	53	19.87	19.91	19.95	20.5	0.0
20	QPSK	1	104	19.82	19.84	19.98		
20	QPSK	50	0	19.97	19.78	19.88		
20	QPSK	50	28	19.90	19.77	19.87	20.5	0.0
20	QPSK	50	56	19.89	19.87	19.88		
20	QPSK	100	0	19.88	19.77	19.86	20.5	0.0
20	16QAM	1	1	19.89	19.84	19.95	20.5	0.0
20	16QAM	1	1	19.87	19.79	19.95	20.5	0.0
20	256QAM	1	1	18.95	18.67	18.76	19.5	1.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	PI2 BPSK	1	1	19.97	19.98	19.89	20.5	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	PI2 BPSK	1	1	19.90	19.77	19.80	20.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	PI2 BPSK	1	1	19.87	19.78	19.84	20.5	0.0



n41/n41 HPUE for FCC								
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				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	21.12	21.27	21.24	21.5	0.0
100	PI/2 BPSK	1	137	21.07	21.19	21.11		
100	PI/2 BPSK	1	271	20.96	21.14	21.03		
100	PI/2 BPSK	135	0	21.16	21.24	21.09	21.5	0.0
100	PI/2 BPSK	135	69	20.99	21.11	21.00		
100	PI/2 BPSK	135	138	20.28	21.08	20.29		
100	PI/2 BPSK	270	0	20.89	21.01	20.72	21.5	0.0
100	QPSK	1	1	20.94	21.01	20.90	21.5	0.0
100	QPSK	1	137	20.94	20.95	20.96		
100	QPSK	1	271	20.99	20.97	21.00		
100	QPSK	135	0	20.70	20.82	20.70	21.5	0.0
100	QPSK	135	69	20.63	20.56	20.65		
100	QPSK	135	138	20.50	20.64	20.66		
100	QPSK	270	0	20.67	20.73	20.68	21.5	0.0
100	16QAM	1	1	20.02	19.97	20.06	21.5	0.0
100	64QAM	1	1	20.31	20.29	20.17	21.5	0.0
100	256QAM	1	1	20.03	19.95	19.98	20.5	1.0
Channel				508200	518598	528996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	21.00	21.09	21.07	21.5	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	20.87	20.99	20.79	21.5	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98		
60	PI/2 BPSK	1	1	20.92	20.86	20.92	21.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	21.03	21.07	21.01	21.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	21.07	21.03	21.00	21.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	20.91	20.95	21.01	21.5	0.0



2.4GHz WLAN						
Ant 1+2 Full Power						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b Mbps	1	2412	23.22	24.00	100.00	
	6	2437	23.10	24.00		
	11	2462	23.02	24.00		
802.11g Mbps	1	2412	21.62	22.50	97.94	
	6	2437	21.80	22.50		
	11	2462	20.02	20.50		
802.11n-HT20 MCS0	1	2412	21.23	22.50	98.10	
	6	2437	21.84	22.50		
	11	2462	20.29	20.50		

2.4GHz WLAN						
Ant 1+2 for Head						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b Mbps	1	2412	21.68	22.00	100.00	
	6	2437	21.85	22.00		
	11	2462	21.38	22.00		
802.11g Mbps	1	2412		22.00	97.94	Not Required
	6	2437		22.00		
	11	2462		20.50		
802.11n-HT20 MCS0	1	2412		22.00	98.16	Not Required
	6	2437		22.00		
	11	2462		20.50		

2.4GHz WLAN						
Ant 1+2 for Body Worn/Hotspot						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b Mbps	1	2412	20.21	21.00	100.00	
	6	2437	20.07	21.00		
	11	2462	19.84	21.00		
802.11g Mbps	1	2412		21.00	97.94	Not Required
	6	2437		21.00		
	11	2462		20.50		
802.11n-HT20 MCS0	1	2412		21.00	98.16	Not Required
	6	2437		21.00		
	11	2462		20.50		

2.4GHz WLAN						
Ant 1+2 for Simultaneous-Handheld						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b Mbps	1	2412	23.22	24.00	100.00	
	6	2437	23.10	24.00		
	11	2462	23.02	24.00		
802.11g Mbps	1	2412		22.50	97.94	Not Required
	6	2437		22.50		
	11	2462		20.50		
802.11n-HT20 MCS0	1	2412		22.50	98.16	Not Required
	6	2437		22.50		
	11	2462		20.50		

5GHz WLAN						
Ant 1+2 Full Power						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a Mbps	36	5180	20.56	21.50	97.93	
	40	5200	20.72	21.50		
	44	5220	20.71	21.50		
	48	5240	20.78	21.50		
802.11n-HT20 MCS0	36	5180	20.78	21.50	97.79	
	40	5200	20.77	21.50		
	44	5220	20.73	21.50		
	48	5240	20.98	21.50		
802.11n-HT40 MCS0	36	5180	20.81	21.00	96.32	
	40	5200	20.86	21.00		
	48	5240	20.51	21.00		
802.11ac-VHT20 MCS0	40	5200	20.73	21.50	97.43	
	44	5220	20.73	21.50		
	48	5240	20.70	21.50		
802.11ac-VHT40 MCS0	38	5190	20.94	21.00	96.32	
	46	5230	20.93	21.00		
	42	5210	19.33	20.00		

5GHz WLAN						
Ant 1+2 for Head						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a Mbps	36	5180	20.56	21.00	97.93	
	40	5200	20.72	21.00		
	44	5220	20.71	21.00		
	48	5240	20.78	21.00		
802.11n-HT20 MCS0	36	5180		21.00	97.79	Not Required
	40	5200		21.00		
	44	5220		21.00		
	48	5240		21.00		
802.11n-HT40 MCS0	36	5180		20.50	96.32	Not Required
	40	5200		20.50		
	48	5240		20.50		
802.11ac-VHT20 MCS0	40	5200		21.00	97.43	Not Required
	44	5220		21.00		
	48	5240		21.00		
802.11ac-VHT40 MCS0	38	5190		20.50	96.32	Not Required
	46	5230		20.50		
	42	5210		20.00		

5GHz WLAN						
Ant 1+2 for Body Worn/Hotspot						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a Mbps	36	5180	16.98	17.50	97.93	
	40	5200	17.08	17.50		
	44	5220	17.01	17.50		
	48	5240	16.92	17.50		
802.11n-HT20 MCS0	36	5180		17.50	97.79	Not Required
	40	5200		17.50		
	44	5220		17.50		
	48	5240		17.50		
802.11n-HT40 MCS0	36	5190		17.00	96.32	Not Required
	40	5200		17.00		
	48	5240		17.00		
802.11ac-VHT20 MCS0	40	5200		17.50	97.43	Not Required
	44	5220		17.50		
	48	5240		17.50		
802.11ac-VHT40 MCS0	38	5190		17.00	96.32	Not Required
	46	5230		17.00		
	42	5210		17.00		

5GHz WLAN						
Ant 1+2 for Simultaneous-Handheld						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a Mbps	36	5180	20.56	21.00	97.93	
	40	5200	20.72	21.00		
	44	5220	20.71	21.00		
	48	5240	20.78	21.00		
802.11n-HT20 MCS0	36	5180		21.00	97.79	Not Required
	40	5200		21.00		
	44	5220		21.00		
	48	5240		21.00		
802.11n-HT40 MCS0	36	5190		21.00	96.32	Not Required
	40	5200		21.00		
	48	5240		21.00		
802.11ac-VHT20 MCS0	40	5200		21.00	97.43	Not Required
	44	5220		21.00		
	48	5240		21.00		
802.11ac-VHT40 MCS0	38	5190		21.00	96.32	Not Required
	46	5230		21.00		
	42	5210		20.00		

5GHz WLAN						
Ant 1+2 Full Power						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a Mbps	52	5280	20.43	21.50	97.93	
	56	5280	20.32	21.50		
	60	5300	20.39	21.50		
	64	5320	20.38	21.50		
	68	5280	20.69	21.50		
802.11n-HT20 MCS0	52	5280	20.50	21.50	97.79	
	56	5280	20.50	21.50		
	60	5300	20.50	21.50		
	64	5320	20.51	21.50		
	68	5320	20.66	21.50		
802.11n-HT40 MCS0	52	5280	20.59	21.00	96.32	
	56	5280	20.25	21.00		
	60	5300	20.62	21.00		
	64	5320	20.47	21.00		
	68	5320	20.47	21.00		
802.11ac-VHT20 MCS0	54	5270	20.95	21.00	97.43	
	62	5310	20.20	21.00		
	58	5290	18.69	19.00		
	64	5320	20.47	21.00		
	68	5320	20.47	21.00		

5GHz WLAN						
Ant 1+2 for Head						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a Mbps	52	5280	20.43	21.00	97.93	
	56	5280	20.32	21.00		
	60	5300	20.39	21.00		
	64	5320	20.38	21.00		
	68	5280	20.69	21.00		
802.11n-HT20 MCS0	52	5280		21.00	97.79	Not Required
	56	5280		21.00		
	60	5300		21.00		
	64	5320		21.00		
	68	5320		21.00		
802.11n-HT40 MCS0	52	5280		20.50	96.32	Not Required
	56	5280		20.50		
	60	5300		20.50		
	64	5320		21.00		
	68	5320		21.00		
802.11ac-VHT20 MCS0	54	5270		21.00	97.43	Not Required
	62	5310		21.00		
	58	5290		21.00		
	64	5320		21.00		
	68	5320		21.00		
802.11ac-VHT40 MCS0	54	5270		20.50	96.32	Not Required
	62	5310		20.50		
	58	5290		19.00		
	64	5320		21.00		
	68	5320		21.00		

5GHz WLAN						
Ant 1+2 for Body Worn						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a Mbps	52	5280	16.94	17.50	97.93	
	56	5280	16.86	17.50		
	60	5300	16.89	17.50		
	64	5320	16.86	17.50		
	68	5280	16.98	17.50		
802.11n-HT20 MCS0	52	5280		17.50	97.79	Not Required
	56	5280		17.50		
	60	5300		17.50		
	64	5320		17.50		
	68	5320		17.50		
802.11n-HT40 MCS0	52	5280		17.00	96.32	Not Required
	56	5280		17.00		
	60	5300		17.00		
	64	5320		17.00		
	68	5320		17.00		
802.11ac-VHT20 MCS0	54	5270		17.50	97.43	Not Required
	62	5310		17.50		
	58	5290		17.50		
	64	5320		17.50		
	68	5320		17.50		
802.11ac-VHT40 MCS0	54	5270		17.00	96.32	Not Required
	62	5310		17.00		
	58	5290		17.00		
	64	5320		17.00		
	68	5320		17.00		

5GHz WLAN						
Ant 1+2 for Simultaneous-Handheld						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a Mbps	52	5280	20.43	21.00	97.93	
	56	5280	20.32	21.00		
	60	5300	20.39	21.00		
	64	5320	20.38	21.00		
	68	5280	20.69	21.00		
802.11n-HT20 MCS0	52	5280		21.00	97.79	Not Required
	56	5280		21.00		
	60	5300		21.00		
	64	5320		21.00		
	68	5320		21.00		
802.11n-HT40 MCS0	52	5280		21.00	96.32	Not Required
	56	5280		21.00		
	60	5300		21.00		
	64	5320		21.00		
	68	5320		21.00		
802.11ac-VHT20 MCS0	54	5				



### BR / EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	11.13	8.58	8.55
	CH 39	2441	11.82	9.55	9.75
	CH 78	2480	10.63	7.95	8.09
Tune-up Limit			12.5	10.5	10.5

### LE

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	6.88
	CH 19	2440	7.95
	CH 39	2480	6.19
Tune-up Limit			9

### LE 5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	7.10	7.39
	CH 19	2440	7.81	8.22
	CH 39	2480	6.30	6.53
Tune-up Limit			9	9



<EN-DC>

2.4GHz WLAN Ant 1+2 for Head						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b 1Mbps	1	2412	17.11	17.50	100.00	
	6	2437	16.97	17.50		
	11	2462	16.62	17.50		
802.11g 6Mbps	1	2412	Not Required	17.50	97.94	
	6	2437		17.50		
	11	2462		17.50		
802.11n-HT20 MCS0	1	2412	Not Required	17.50	98.16	
	6	2437		17.50		
	11	2462		17.50		

2.4GHz WLAN Ant 1+2 for Body Worn/Hotspot						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b 1Mbps	1	2412	15.46	15.50	100.00	
	6	2437	14.79	15.50		
	11	2462	14.69	15.50		
802.11g 6Mbps	1	2412	Not Required	15.50	97.94	
	6	2437		15.50		
	11	2462		15.50		
802.11n-HT20 MCS0	1	2412	Not Required	15.50	98.16	
	6	2437		15.50		
	11	2462		15.50		

2.4GHz WLAN Ant 1+2 for Handheld						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11b 1Mbps	1	2412	20.54	21.00	100.00	
	6	2437	20.40	21.00		
	11	2462	20.19	21.00		
802.11g 6Mbps	1	2412	Not Required	21.00	97.94	
	6	2437		21.00		
	11	2462		20.50		
802.11n-HT20 MCS0	1	2412	Not Required	21.00	98.16	
	6	2437		21.00		
	11	2462		20.50		

5GHz WLAN Ant 1+2 for Head						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	Not Required	17.00	97.93	
	40	5200		17.00		
	44	5220		17.00		
	48	5240		17.00		
802.11n-HT20 MCS0	36	5180	Not Required	17.00	97.79	
	40	5200		17.00		
	44	5220		17.00		
	48	5240		17.00		
802.11n-HT40 MCS0	38	5190	Not Required	16.50	96.32	
	46	5230		16.50		
	36	5180		17.00		
	40	5200		17.00		
802.11ac-VHT20 MCS0	44	5220	Not Required	17.00	97.43	
	48	5240		17.00		
	38	5190		16.50		
	46	5230		16.50		
802.11ac-VHT40 MCS0	38	5190	Not Required	16.50	96.32	
	46	5230		16.50		
802.11ac-VHT80 MCS0	42	5210	Not Required	16.50	93.33	
	42	5210		16.50		

5GHz WLAN Ant 1+2 for Body Worn/Hotspot						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	11.70	12.00	97.93	
	40	5200	11.60	12.00		
	44	5220	11.44	12.00		
	48	5240	11.65	12.00		
802.11n-HT20 MCS0	36	5180	Not Required	12.00	97.79	
	40	5200		12.00		
	44	5220		12.00		
	48	5240		12.00		
802.11n-HT40 MCS0	38	5190	Not Required	11.50	96.32	
	46	5230		11.50		
	36	5180		12.00		
	40	5200		12.00		
802.11ac-VHT20 MCS0	44	5220	Not Required	12.00	97.43	
	48	5240		12.00		
	38	5190		11.50		
	46	5230		11.50		
802.11ac-VHT40 MCS0	38	5190	Not Required	11.50	96.32	
	46	5230		11.50		
802.11ac-VHT80 MCS0	42	5210	Not Required	11.50	93.33	
	42	5210		11.50		

5GHz WLAN Ant 1+2 for Handheld						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	36	5180	15.61	16.00	97.93	
	40	5200	15.64	16.00		
	44	5220	15.64	16.00		
	48	5240	15.65	16.00		
802.11n-HT20 MCS0	36	5180	Not Required	16.00	97.79	
	40	5200		16.00		
	44	5220		16.00		
	48	5240		16.00		
802.11n-HT40 MCS0	38	5190	Not Required	15.50	96.32	
	46	5230		15.50		
	36	5180		16.00		
	40	5200		16.00		
802.11ac-VHT20 MCS0	44	5220	Not Required	16.00	97.43	
	48	5240		16.00		
	38	5190		15.50		
	46	5230		15.50		
802.11ac-VHT40 MCS0	38	5190	Not Required	15.50	96.32	
	46	5230		15.50		
802.11ac-VHT80 MCS0	42	5210	Not Required	15.50	93.33	
	42	5210		15.50		

5GHz WLAN Ant 1+2 for Head						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5260	16.72	17.00	97.93	
	56	5280	16.72	17.00		
	60	5300	16.57	17.00		
	64	5320	16.54	17.00		
802.11n-HT20 MCS0	52	5260	Not Required	17.00	97.79	
	56	5280		17.00		
	60	5300		17.00		
	64	5320		17.00		
802.11n-HT40 MCS0	54	5270	Not Required	16.50	96.32	
	62	5310		16.50		
	52	5260		17.00		
	56	5280		17.00		
802.11ac-VHT20 MCS0	60	5300	Not Required	17.00	97.43	
	64	5320		17.00		
	54	5270		16.50		
	62	5310		16.50		
802.11ac-VHT40 MCS0	54	5270	Not Required	16.50	96.32	
	62	5310		16.50		
802.11ac-VHT80 MCS0	58	5290	Not Required	16.50	93.33	
	58	5290		16.50		

5GHz WLAN Ant 1+2 for Body Worn						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5260	11.60	12.00	97.93	
	56	5280	11.47	12.00		
	60	5300	11.59	12.00		
	64	5320	11.59	12.00		
802.11n-HT20 MCS0	52	5260	Not Required	12.00	97.79	
	56	5280		12.00		
	60	5300		12.00		
	64	5320		12.00		
802.11n-HT40 MCS0	54	5270	Not Required	11.50	96.32	
	62	5310		11.50		
	52	5260		12.00		
	56	5280		12.00		
802.11ac-VHT20 MCS0	60	5300	Not Required	12.00	97.43	
	64	5320		12.00		
	54	5270		11.50		
	62	5310		11.50		
802.11ac-VHT40 MCS0	54	5270	Not Required	11.50	96.32	
	62	5310		11.50		
802.11ac-VHT80 MCS0	58	5290	Not Required	11.50	93.33	
	58	5290		11.50		

5GHz WLAN Ant 1+2 for Handheld						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	52	5260	14.55	15.00	97.93	
	56	5280	14.57	15.00		
	60	5300	14.64	15.00		
	64	5320	14.59	15.00		
802.11n-HT20 MCS0	52	5260	Not Required	15.00	97.79	
	56	5280		15.00		
	60	5300		15.00		
	64	5320		15.00		
802.11n-HT40 MCS0	54	5270	Not Required	14.50	96.32	
	62	5310		14.50		
	52	5260		15.00		
	56	5280		15.00		
802.11ac-VHT20 MCS0	60	5300	Not Required	15.00	97.43	
	64	5320		15.00		
	54	5270		14.50		
	62	5310		14.50		
802.11ac-VHT40 MCS0	54	5270	Not Required	14.50	96.32	
	62	5310		14.50		
802.11ac-VHT80 MCS0	58	5290	Not Required	14.50	93.33	
	58	5290		14.50		

5GHz WLAN Ant 1+2 for Head						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	100	5500	14.98	15.00	97.93	
	116	5580	14.70	15.00		
	124	5620	14.61	15.00		
	132	5660	14.80	15.00		
	140	5700	14.31	15.00		
802.11n-HT20 MCS0	100	5500	Not Required	15.00	97.93	
	116	5580		15.00		
	124	5620		15.00		
	132	5660		15.00		
	140	5700		15.00		
802.11n-HT40 MCS0	102	5510	Not Required	14.50	97.79	
	110	5550		14.50		
	126	5630		14.50		
	134	5670		14.50		
	100	5500		15.00		
802.11ac-VHT20 MCS0	116	5580	Not Required	15.00	97.43	
	124	5620		15.00		
	132	5660		15.00		
	140	5700		15.00		
	102	5510		14.50		
802.11ac-VHT40 MCS0	110	5550	Not Required	14.50	96.32	
	126	5630		14.50		
	134	5670		14.50		
	106	5530		14.50		
802.11ac-VHT80 MCS0	106	5530	Not Required	14.50	93.33	
	122	5610		14.50		

5GHz WLAN Ant 1+2 for Body Worn						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	100	5500	11.40	11.50	97.93	
	116	5580	11.30	11.50		
	124	5620	11.17	11.50		
	132	5660	11.15	11.50		
	140	5700	10.86	11.50		
802.11n-HT20 MCS0	100	5500	Not Required	11.50	97.93	
	116	5580		11.50		
	124	5620		11.50		
	132	5660		11.50		
	140	5700		11.50		
802.11n-HT40 MCS0	102	5510	Not Required	11.00	97.79	
	110	5550		11.00		
	126	5630		11.00		
	134	5670		11.00		
	100	5500		11.50		
802.11ac-VHT20 MCS0	116	5580	Not Required	11.50	97.43	
	124	5620		11.50		
	132	5660		11.50		
	140	5700		11.50		
	102	5510		11.00		
802.11ac-VHT40 MCS0	110	5550	Not Required	11.00	96.32	
	126	5630		11.00		
	134	5670		11.00		
	106	5530		11.00		
802.11ac-VHT80 MCS0	106	5530	Not Required	11.00	93.33	
	122	5610		11.00		

5GHz WLAN Ant 1+2 for Handheld						
Mode	Channel	Frequency (MHz)	Average power (dBm)			



**Appendix F. Supplemental Tuner Head & Body SAR Results**

The results are shown as follows.

**Head**

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)												
									Auto-Tune	0	15	30	45	60	75	90	105	120	135		
FR1 n5	BPSK/DFT-15KHz	167300	836.5	1	1	Right Cheek	0mm	0.163	0.206	0.009	0.15	0.047	0.001	0.105	0.051	0.001	0.144	0.036	0.008		
FR1 n12	DFT-15KHz	141500	707.5	1	1	Right Cheek	5mm	0.110	0.144	0.005	0.143	0.035	0.001	0.102	0.044	0.001	0.126	0.050	0.046		
FR1 n71	BPSK/DFT-15KHz	136100	680.5	1	1	Right Cheek	0mm	0.138	0.163	0.031	0.073	0.051	0.004	0.056	0.067	0.020	0.041	0.075	0.001		
WCDMA V	RMC12.2Kbps	4132	826.4	-	-	Right Cheek	0mm	0.257	0.284	0.122	0.009	0.228	0.092	0.000	0.165	0.114	0.010	0.192	0.029		
WCDMA IV	RMC12.2Kbps	1513	1752.6	-	-	Right Cheek	0mm	0.143	0.167	0.178	0.157	0.123	0.107	0.158	0.157	0.145	0.029	0.082	0.082		
WCDMA II	RMC12.2Kbps	9400	1880	-	-	Right Cheek	0mm	0.096	0.113	0.109	0.098	0.103	0.099	0.113	0.113	0.113	0.097	0.082	0.084		
CDMA BC 0	RC3 SO55	1013	824.7	-	-	Right Cheek	0mm	0.210	0.233	0.134	0.096	0.008	0.124	0.027	0.014	0.127	0.046	0.005	0.125		
CDMA BC 1	RC3 SO55	1175	1908.75	-	-	Right Cheek	0mm	0.083	0.096	0.085	0.095	0.070	0.083	0.088	0.090	0.099	0.093	0.075	0.068		
CDMA BC 10	RC3 SO55	476	817.9	-	-	Right Cheek	0mm	0.219	0.241	0.204	0.212	0.032	0.105	0.160	0.016	0.136	0.104	0.011	0.081		
LTE Band 71	20M/QPSK	133322	683	1	0	Right Cheek	0mm	0.152	0.163	0.001	0.148	0.049	0.000	0.102	0.036	0.000	0.056	0.024			
LTE Band 12	10M/QPSK	23095	707.5	1	0	Right Cheek	0mm	0.191	0.208	0.003	0.162	0.053	0.001	0.179	0.067	0.001	0.073	0.057			
LTE Band 13	10M/QPSK	23230	782	1	0	Right Cheek	0mm	0.187	0.204	0.027	0.167	0.131	0.022	0.073	0.196	0.004	0.118	0.172			
LTE Band 26	15M/QPSK	26965	841.5	1	0	Right Cheek	0mm	0.226	0.251	0.151	0.002	0.136	0.096	0.012	0.230	0.044	0.001	0.161			
LTE Band 66	20M/QPSK	132572	1770	1	0	Right Cheek	0mm	0.127	0.147	0.144	0.147	0.122	0.112	0.128	0.103	0.096	0.120	0.087			
LTE Band 25	20M/QPSK	26580	1905	1	0	Right Tilted	0mm	0.094	0.110	0.093	0.094	0.087	0.082	0.080	0.074	0.073	0.082	0.068			



**Body**

Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)											
									Auto-Tune	0	15	30	45	60	75	90	105	120	135	
FR1 n5	DFT-15KHz	167300	836.5	1	1	Back	5mm	0.734	1.141	0.057	0.810	0.309	0.005	0.562	0.287	0.011	0.819	0.206	0.000	
FR1 n12	DFT-15KHz	141500	707.5	1	1	Back	5mm	0.705	0.886	0.052	0.881	0.258	0.004	0.578	0.267	0.009	0.844	0.305	0.001	
FR1 n71	DFT-15KHz	136100	680.5	50	0	Back	5mm	0.581	0.728	0.196	0.548	0.421	0.020	0.423	0.437	0.046	0.328	0.521	0.000	
WCDMA V	RMC12.2Kbps	4233	846.6	-	-	Back	5mm	0.936	1.197	0.549	1.115	0.973	0.356	0.001	0.594	0.438	0.034	0.654	0.105	
WCDMA IV	RMC12.2Kbps	1513	1752.6	-	-	Back	5mm	1.13	1.482	0.812	0.633	0.753	0.556	1.042	0.938	0.863	0.928	0.398	0.363	
WCDMA II	RMC12.2Kbps	9262	1852.4	-	-	Bottom Side	5mm	1.17	1.531	1.423	1.305	1.455	1.280	1.438	1.530	1.511	1.450	1.026	1.019	
CDMA BC0	RTAP 153.6Kbps	1013	824.7	-	-	Back	5mm	1.03	1.3	0.735	0.679	0.047	0.602	0.167	0.011	0.656	0.229	0.007	0.682	
CDMA BC1	RTAP 153.6Kbps	1175	1908.75	-	-	Bottom Side	5mm	1.05	1.399	1.287	1.345	1.340	0.984	0.950	1.314	1.293	1.308	1.299	0.856	
CDMA BC10	RTAP 153.6Kbps	580	820.5	-	-	Back	5mm	1.1	1.349	1.110	1.268	0.169	0.431	0.966	0.094	0.598	0.518	0.066	0.338	
LTE Band 71	20M/QPSK	133322	683	1	0	Back	5mm	0.797	1.403	0.006	0.712	0.212	0.008	0.483	0.140	0.006	0.293	0.122		
LTE Band 12	10M/QPSK	23095	707.5	1	0	Back	5mm	1.01	1.297	0.029	1.220	0.458	0.012	1.191	0.515	0.001	0.519	0.364		
LTE Band 13	10M/QPSK	23230	782	1	0	Back	5mm	0.948	1.17	0.041	0.238	0.161	0.026	0.501	0.302	0.014	0.179	0.201		
LTE Band 26	15M/QPSK	26865	831.5	1	0	Back	5mm	1.14	1.416	0.737	0.013	0.649	0.253	0.050	0.670	0.131	0.003	0.495		
LTE Band 66	20M/QPSK	132322	1745	100	0	Back	5mm	1.17	1.531	0.827	0.446	0.716	0.634	1.409	0.625	0.507	0.991	0.460		
LTE Band 25	20M/QPSK	26590	1880	50	0	Bottom Side	5mm	1.03	1.374	1.090	1.096	1.134	1.142	1.198	0.741	1.016	1.183	0.998		



verified for SAR higher than 1.2W/kg

Mode	Service/Modulation	Channel	Frequency (MHz)	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	20
WCDMA V	RMC12.2Kbps	4233	846.6			Back	5mm	0.936	1.197	0.074	0.24	0.248	0.549	0.730	0.787	0.857	0.885	0.839	0.826	0.856	0.167	0.722	1.115	1.107	0.977	0.880	0.523	0.338	0.080	0.218
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146
										0.001	0.002	0.015	0.156	0.583	0.844	0.877	0.740	0.300	0.049	0.079	0.157	0.350	0.484	0.532	0.594	0.612	0.601	0.009	0.023	0.079
										0.433	0.844	0.903	0.816	0.731	0.401	0.014	0.033	0.104	0.438	0.710	0.763	0.746	0.714	0.478	0.000	0.004	0.023	0.206	0.690	0.940
										0.932	0.789	0.338	0.034	0.056	0.108	0.242	0.340	0.381	0.426	0.442	0.441	0.003	0.011	0.042	0.271	0.621	0.707	0.654	0.594	0.313
										0.005	0.016	0.056	0.274	0.501	0.559	0.568	0.541	0.366	0.000	0.001	0.008	0.105	0.550	0.715	0.834	0.709	0.275			

Mode	Service/Modulation	Channel	Frequency (MHz)	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	20
WCDMA IV	RMC12.2Kbps	1513	1752.6			Back	5mm	1.13	1.462	0.477	0.560	0.665	0.765	0.812	0.820	0.846	0.859	0.887	0.524	0.616	0.734	0.844	0.897	0.903	0.930	0.943	0.975	0.539	0.633	0.747
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146
										0.804	0.781	0.729	1.392	1.156	0.847	0.630	0.556	0.547	0.513	0.498	0.466	1.364	1.266	1.005	0.776	0.691	0.680	0.639	0.620	0.584
										1.365	1.042	0.689	0.490	0.425	0.420	0.392	0.391	0.357	1.413	1.339	1.204	1.058	0.998	0.983	0.954	0.938	0.895	1.188	1.056	0.902
										0.772	0.723	0.716	0.693	0.682	0.653	1.331	1.211	1.058	0.920	0.863	0.854	0.827	0.814	0.796	0.948	0.824	0.691	0.588	0.549	0.543
										0.525	0.515	0.499	0.757	0.928	0.953	0.805	0.721	0.705	0.661	0.640	0.592	1.092	1.062	0.767	0.535	0.458	0.449	0.415	0.398	0.368
										0.929	1.025	0.871	0.654	0.569	0.557	0.518	0.500	0.462	1.192	1.129	0.888	0.436	0.363	0.356	0.326	0.312	0.288			

Mode	Service/Modulation	Channel	Frequency (MHz)	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	20
WCDMA II	RMC12.2Kbps	9538	1907.6			Bottom Side	5mm	1.17	1.531	0.721	0.913	1.144	1.331	1.416	1.423	1.461	1.474	1.505	0.978	1.171	1.417	1.511	1.523	1.530	1.529	1.511	1.531	0.872	1.077	1.305
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146
										1.212	1.331	1.344	1.367	1.371	1.382	1.371	0.952	1.167	1.268	1.277	1.282	1.276	1.268	1.265	0.933	1.019	1.343	1.358	1.324	1.317
										1.396	1.375	1.343	1.279	1.445	1.433	1.288	1.202	1.145	1.125	1.079	1.158	1.374	1.462	1.386	1.330	1.318	1.280	1.258	1.217	1.171
										1.313	1.499	1.438	1.238	1.136	1.130	1.084	1.051	1.011	1.055	1.276	1.469	1.521	1.530	1.519	1.527	1.519	1.530	1.286	1.477	1.516
										1.511	1.462	1.455	1.424	1.403	1.392	1.185	1.393	1.515	1.522	1.531	1.511	1.518	1.502	1.477	1.193	1.394	1.455	1.367	1.296	1.293
										1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25
										1.255	1.248	1.217	1.021	1.255	1.450	1.458	1.409	1.410	1.389	1.351	1.308	1.286	1.469	1.451	1.260	1.160	1.153	1.122	1.071	1.026
										1.146	1.376	1.467	1.373	1.290	1.286	1.236	1.213	1.167	1.259	1.491	1.483	1.145	1.025	1.019	0.967	0.924	0.889			

Mode	Service/Modulation	Channel	Frequency (MHz)	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	20
CDMA BC0	ITAP 153.6Kbps	1013	824.7			Back	5mm	1.03	1.300	0.086	0.142	0.275	0.525	0.631	0.676	0.735	0.764	0.861	0.029	0.062	0.174	0.614	0.906	0.941	0.856	0.785	0.516	0.045	0.091	0.235
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146
										0.437	0.719	0.856	0.698	0.618	0.375	0.017	0.040	0.122	0.469	0.736	0.730	0.656	0.621	0.469	0.001	0.005	0.028	0.218	0.601	0.771
										1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25
										0.611	0.428	0.511	0.006	0.018	0.064	0.359	0.716	0.782	0.602	0.524	0.311	0.011	0.027	0.089	0.381	0.637	0.621	0.545	0.512	0.382
										0.43	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83
										0.001	0.002	0.017	0.167	0.542	0.738	0.705	0.574	0.257	0.058	0.095	0.184	0.351	0.425	0.459	0.507	0.528	0.613	0.011	0.027	0.090
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104
										1.033	1.218	1.267	1.051	0.950	0.943	0.896	0.865	0.820	0.866	0.074	0.283	1.367	1.378	1.370	1.351	1.090	1.286	1.366	1.314	1.256
										0.774	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676	0.676
1.251	1.228	1.213	1.176	1.200	1.172	0.987	1.193	1.316	1.359	1.340	1.332	1.311	1.293	1.278	1.025	1.214	1.174	1.109	1.104	1.04										
1.05	1.06	1.07	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25										
1.155	1.131	1.107	0.920	1.157	1.352	1.356	1.308	1.308	1.271	1.250	1.213	1.190	1.369	1.352	1.167	1.063														



Full Power										Average Value of Time Sweep (W/kg)																					
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																						
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
LTE Band 26	-	26865	831.5	1	0	Back	5mm	1.14	1.416	0.104	0.171	0.330	0.672	0.873	0.934	1.011	1.034	1.014	0.938	0.979	0.217	0.737	1.053	1.079	1.027	0.972	0.667	0.057	0.114	0.288	
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
										0.807	1.057	1.085	1.068	1.032	0.793	0.013	0.031	0.096	0.441	0.804	0.892	0.885	0.839	0.691	0.055	0.090	0.177	0.391	0.536	0.589	
										0.649	0.669	0.480	0.006	0.169	0.061	0.338	0.641	0.662	0.603	0.529	0.301	0.010	0.020	0.082	0.253	0.552	0.583	0.567	0.534	0.361	
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	
										0.001	0.002	0.016	0.154	0.505	0.666	0.592	0.447	0.249	0.050	0.083	0.159	0.351	0.474	0.514	0.560	0.576	0.556	0.010	0.024	0.083	
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	
										0.413	0.717	0.745	0.670	0.807	0.607	0.359	0.016	0.037	0.113	0.429	0.555	0.676	0.655	0.622	0.432	0.001	0.005	0.026	0.131	0.553	0.707
										0.698	0.598	0.352	0.032	0.052	0.101	0.226	0.317	0.350	0.390	0.403	0.395	0.003	0.010	0.400	0.400	0.249	0.541	0.602	0.556	0.495	0.269
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143				
										0.006	0.016	0.057	0.229	0.455	0.497	0.495	0.469	0.315	0.001	0.001	0.008	0.100	0.387	0.587	0.639	0.546	0.226				

Full Power										Average Value of Time Sweep (W/kg)																					
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																						
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
LTE Band 13	-	23230	782	25	0	Back	5mm	0.907	1.170	0.021	0.035	0.068	0.151	0.215	0.240	0.277	0.293	0.310	0.007	0.014	0.041	0.176	0.338	0.379	0.386	0.362	0.216	0.010	0.020	0.055	
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
										0.188	0.297	0.325	0.338	0.331	0.238	0.002	0.005	0.015	0.059	0.249	0.351	0.409	0.388	0.180	0.015	0.024	0.045	0.101	0.149	0.161	
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	
										0.199	0.212	0.221	0.002	0.005	0.018	0.104	0.247	0.302	0.317	0.346	0.161	0.003	0.008	0.026	0.118	0.222	0.260	0.270	0.283	0.172	
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	
										0.002	0.002	0.013	0.131	0.483	0.827	1.167	1.340	0.501	0.015	0.025	0.048	0.108	0.156	0.178	0.207	0.219	0.236	0.003	0.006	0.020	
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	
										0.108	0.246	0.302	0.321	0.301	0.165	0.004	0.010	0.029	0.123	0.221	0.255	0.277	0.271	0.190	0.002	0.003	0.014	0.120	0.412	0.678	
										0.999	0.965	0.400	0.022	0.022	0.036	0.081	0.118	0.135	0.160	0.171	0.179	0.001	0.001	0.012	0.073	0.189	0.247	0.276	0.259	0.137	
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143				
										0.002	0.005	0.016	0.085	0.168	0.201	0.223	0.223	0.156	0.001	0.001	0.007	0.080	0.086	0.648	1.117	1.118	0.418				

Full Power										Average Value of Time Sweep (W/kg)																						
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																							
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
LTE Band 66	-	132322	1745	100	0	Back	5mm	1.17	1.531	0.458	0.530	0.631	0.714	0.762	0.768	0.789	0.801	0.820	0.501	0.584	0.688	0.782	0.827	0.832	0.854	0.862	0.896	0.525	0.605	0.701		
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41		
										0.798	0.842	0.851	0.876	0.888	0.921	0.378	0.446	0.528	0.611	0.646	0.655	0.674	0.686	0.718	1.148	1.241	1.106	0.893	0.800	0.784		
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62		
										0.740	0.716	0.668	1.310	1.100	0.793	0.581	0.512	0.504	0.471	0.457	0.424	1.260	1.196	0.940	0.720	0.634	0.626	0.587	0.569	0.533		
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83		
										1.420	1.000	0.652	0.456	0.401	0.389	0.362	0.349	0.328	0.349	0.328	1.490	1.409	1.250	1.100	0.950	0.918	0.891	0.877	0.828	1.270	1.117	0.950
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104		
										0.821	0.668	0.661	0.638	0.625	0.604	1.403	1.274	1.105	0.857	0.808	0.791	0.764	0.775	0.721	0.938	0.799	0.652	0.546	0.507	0.509		
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125		
										0.483	0.474	0.457	0.670	0.846	0.882	0.745	0.666	0.655	0.613	0.590	0.543	0.987	0.991	0.825	0.499	0.423	0.414	0.383	0.388	0.337		
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143					
										0.826	0.942	0.858	0.607	0.526	0.516	0.480	0.460	0.425	0.106	1.067	0.651	0.407	0.341	0.331	0.303	0.289	0.266					

Sensor on										Average Value of Time Sweep (W/kg)																					
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune																						
										0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
LTE Band 25	-	26590	1880	50	0	Bottom Side	5mm	1.03	1.374	0.471	0.676	0.914	1.104	1.182	1.284	1.209	1.234	1.263	0.711	0.926	1.124	1.050	1.277	1.090	1.305	1.314	0.604	1.021	1.182	1.231	
										21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
										1.209	1.251	1.263	1.283	1.297	1.299	0.655	0.866	1.096	1.211	1.205	1.209	1.196	1.197	1.206	0.876	1.127	1.276	1.284	1.256	1.271	
										42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	
										1.198	1.182	1.134	1.083	1.275	1.241	1.093	0.974	1.002	0.952	0.926	0.877	0.977	1.193	1.286	1.213	1.138	1.142	1.104	1.083	1.026	
										63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	
										1.043	1.241	1.177	0.976	0.859	0.855	0.795	0.771	0.721	0.777	0.996	1.198	1.273	1.283	1.261	1.190	1.258	1.237	0.981	1.174	1.211	
										84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	
										1.171	1.162	1.133	1.116	1.082	0.741	0.676	1.064	1.248	1.259	1.241	1.224	1.213	1.226	1.167	0.899	1.119	1.193	1.063	1.035	1.016	
										105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	
										0.979	0.951	0.922	0.743	1.002	1.212	1.195	1.147	1.155	1.109	1.082	1.032	1.022	1.221	1.183	0.984	0.886	0.868	0.809	0.776	0.728	
										126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143				
										0.979	1.215	1.227	1.216	1.134	1.116	1.063	1.037	0.998	1.089	1.349	1.243	0.972	0.854	0.844	0.788	0.756	0.703				