



Full Power Mode

2CA DL

Configure		PCC										SCC				Power	
		LTE	Antenna Port	BW (MHz)	UL Freq (MHz)	UL Channel	Mod.	UL# RB	UL# RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	With CA Tx Power (dBm)	Without CA Tx Power (dBm)
		Band															
Inter-Band	CA_5A-41A	Band 5	1	10M	835.5	2025	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.91	23.10
		Band 5	2	10M	835.5	2025	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.14	22.42
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	835.5	2525		22.49	22.75
	CA_25A-41A	Band 25	1	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.16	23.45
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 25	20M	1960	8340	4x4MIMO	22.51	22.75
		Band 26	1	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	23.01	23.22
CA_26A-41A	Band 26	1	15M	831.5	26865	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.01	23.22	
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		22.42	22.75



3CA DL

Configure		PCC										SCC1								SCC2				Power	
		Band	Antenna Port	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL RB	UL RB Offset	DL Antenna Configuration	Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	With CA	Without CA			
																					Tx Power (dBm)	Tx Power (dBm)			
Inter-Band	CA_2A-4A-29A	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	22.61	22.9			
		Band 2	2	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	21.48	21.89			
		Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	22.44	22.7			
		Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	21.38	21.78			
	CA_2A-4A-30A	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 30	10M	2355	9820	4x4MMIMO	22.59	22.9			
		Band 2	2	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 30	10M	2355	9820	4x4MMIMO	21.46	21.89			
		Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 30	10M	2355	9820	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	22.51	22.7			
		Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 30	10M	2355	9820	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	21.07	21.78			
	CA_2A-29A-66A	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	23.22	23.89			
		Band 30	2	10M	2310	27710	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	21.73	21.85			
		Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	Band 66	20M	2155	66886	4x4MMIMO	22.68	22.9			
		Band 2	2	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	Band 66	20M	2155	66886	4x4MMIMO	21.42	21.89			
Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	22.49	22.71					
Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	21.44	21.8					

Configure		PCC										SCC1								SCC2				Power	
		Band	Antenna Port	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL RB	UL RB Offset	DL Antenna Configuration	Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	Band	BW (MHz)	DL Freq. (MHz)	DL Channel	DL Antenna Configuration	With CA	Without CA			
																					Tx Power (dBm)	Tx Power (dBm)			
Inter-Band	CA_2C-12A	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 2	20M	1979.8	1098	4x4MMIMO	Band 12	10M	737.5	5095	4x4MMIMO	22.56	22.9			
		Band 2	2	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 2	20M	1979.8	1098	4x4MMIMO	Band 12	10M	737.5	5095	4x4MMIMO	21.48	21.89			
		Band 12	1	10M	707.5	23095	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	22.26	23.28			
		Band 12	2	10M	707.5	23095	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	22.44	22.49			
	CA_4A-4A-71A	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 4	20M	2152.5	2375	4x4MMIMO	Band 71	20M	637	68786	4x4MMIMO	22.4	22.7			
		Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 4	20M	2152.5	2375	4x4MMIMO	Band 71	20M	637	68786	4x4MMIMO	21.38	21.78			
		Band 71	1	20M	683	133322	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 4	20M	2152.5	2375	4x4MMIMO	23.01	23.33			
		Band 71	2	20M	683	133322	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 4	20M	2152.5	2375	4x4MMIMO	23.06	23.45			
	CA_25A-25A-26A	Band 25	1	20M	1880	26340	QPSK	1	0	4x4MMIMO	Band 25	20M	1960	8585	4x4MMIMO	Band 25	10M	876.5	8865	4x4MMIMO	22.95	23.22			
		Band 25	2	20M	1880	26340	QPSK	1	0	4x4MMIMO	Band 41	20M	2593	40620	4x4MMIMO	Band 41	20M	2612.8	40818	4x4MMIMO	23.12	23.45			
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MMIMO	Band 41	20M	2612.8	40818	4x4MMIMO	Band 25	20M	1960	8585	4x4MMIMO	22.42	22.75			
		Band 41	2	20M	2593	40620	QPSK	1	0	4x4MMIMO	Band 41	20M	2593	40620	4x4MMIMO	Band 41	20M	2612.8	40818	4x4MMIMO	23.01	23.22			
	CA_31A-41A-41A	Band 41	1	20M	2593	40620	QPSK	1	0	4x4MMIMO	Band 41	20M	2612.8	40818	4x4MMIMO	Band 26	10M	876.5	8865	4x4MMIMO	22.34	22.75			
		Band 41	2	20M	2593	40620	QPSK	1	0	4x4MMIMO	Band 41	20M	2612.8	40818	4x4MMIMO	Band 41	20M	2606	39750	4x4MMIMO	22.51	22.75			
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MMIMO	Band 41	20M	2612.8	40818	4x4MMIMO	Band 41	20M	2610	39750	4x4MMIMO	22.46	22.75			
		Band 41	2	20M	2593	40620	QPSK	1	0	4x4MMIMO	Band 41	20M	2612.8	40818	4x4MMIMO	Band 41	20M	2610	39750	4x4MMIMO	22.56	22.71			
	CA_66A-66B	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2112.5	66461	4x4MMIMO	Band 66	10M	2121.8	66554	4x4MMIMO	21.62	21.8			
		Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2112.5	66461	4x4MMIMO	Band 66	10M	2121.8	66554	4x4MMIMO	21.62	21.8			
		Band 66	1	10M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2164.3	66979	4x4MMIMO	Band 66	20M	2120	66536	4x4MMIMO	22.48	22.71			
		Band 66	2	10M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2164.3	66979	4x4MMIMO	Band 66	20M	2120	66536	4x4MMIMO	21.49	21.8			
	CA_66A-66C	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2112.5	66461	4x4MMIMO	Band 66	20M	2124.2	66578	4x4MMIMO	22.53	22.71			
		Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2112.5	66461	4x4MMIMO	Band 66	20M	2124.2	66578	4x4MMIMO	21.62	21.8			
		Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2174.8	67084	4x4MMIMO	Band 66	20M	2112.5	66461	4x4MMIMO	22.41	22.71			
		Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2174.8	67084	4x4MMIMO	Band 66	20M	2112.5	66461	4x4MMIMO	21.59	21.8			



CA_2A-66A-66A	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	21.50	21.85
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 30	10M	2310	9820	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.47	22.71
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 30	10M	2310	9820	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	21.45	21.8
	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.54	22.9
CA_2A-REC-71A	Band 2	2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.61	21.89
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.51	22.71
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	21.39	21.8
	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	22.68	22.9
CA_2A-66A-66A-71A	Band 2	2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	21.60	21.89
	Band 71	1	20M	683	133322	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	23.05	23.33
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.34	22.71
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	21.60	21.8
CA_4A-4A-30A	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	21.60	21.89
	Band 2	2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	21.60	21.89
	Band 66	1	20M	683	133322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	22.38	22.71
	Band 66	2	20M	683	133322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	21.54	21.8
CA_4A-4A-12A-30A	Band 71	1	20M	683	133322	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	23.02	23.33
	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	22.46	22.7
	Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	21.32	21.78
	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.85	23.10
CA_4A-4A-12A-30A	Band 5	2	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.16	22.45
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.37	23.69
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	21.56	21.85
	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	22.50	22.7
CA_4A-4A-12A-30A	Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	21.43	21.78
	Band 12	1	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.01	23.28
	Band 12	2	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.12	22.49
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.28	23.59
CA_4A-4A-20A-30A	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	21.54	21.85
	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	22.48	22.7
	Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	21.37	21.78
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.37	23.69
CA_3B-30A-66A	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 5	10M	881.2	2525	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	21.48	21.85
	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.82	23.10
	Band 5	2	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.08	22.45
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 5	10M	881.2	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	22.49	22.71
CA_3B-66A-66A	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	21.45	21.8
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	23.35	23.69
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	21.50	21.85
	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.84	23.10
CA_5A-30A-66A-66A	Band 5	2	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.18	22.45
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 5	10M	881.2	2525	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.26	23.59
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 5	10M	881.2	2525	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	21.45	21.85
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	22.47	22.71
CA_12A-30A-66A-66A	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	21.35	21.8
	Band 12	1	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.01	23.28
	Band 12																									



Reduced Power Mode for Sensor On

2CA DL

Configure		PCD										SCC				Power	
		LTE Band	Antenna Port	BW (MHz)	UL Freq (MHz)	UL Channel	Mod.	MCS	UL RB	UL Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	With CA Tx Power (dBm)
Inter-Band	CA_5A-41A	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	19.96	20.29
		Band 5	2	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	20.11	20.44
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	881.0	2525		17.89	18.14
	CA_25A-41A	Band 25	1	20M	1980	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	16.18	16.47
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 25	20M	1980	8340	4x4MIMO	17.82	18.14
		Band 25	1	15M	831.5	26865	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.21	22.40
	CA_26A-41A	Band 26	1	15M	831.5	26865	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.21	22.40
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		17.99	18.14



3CA DL

Configure	PCC										SCC1				SCC2				Power			
	LTE Band	Antenna Port	BW (MHz)	UL Freq (MHz)	UL Channel	Mod	UL# RB	UL# RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	With CA Tx Power (dBm)	Without CA Tx Power (dBm)	
	Inter-Band	CA_2A-4A-29A	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	14.31
Band 2			2	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	13.94	14.1
Band 4			1	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	14.38	14.56
Band 4			2	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	14.12	14.28
CA_2A-4A-30A		Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 30	10M	2355	9820	4x4MMIMO	14.24	14.46
		Band 2	2	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 30	10M	2355	9820	4x4MMIMO	13.89	14.1
		Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 30	10M	2355	9820	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	14.38	14.56
		Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 30	10M	2355	9820	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	14.08	14.28
CA_2A-29A-66A		Band 30	1	10M	2310	27710	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	14.22	14.31
		Band 30	2	10M	2310	27710	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	16.7	18.53
		Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	Band 66	20M	2155	6688	4x4MMIMO	14.29	14.46
		Band 2	2	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	Band 66	20M	2155	6688	4x4MMIMO	13.86	14.1
Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	14.51	14.73		
	2	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	14.44	14.55		

Configure	PCC										SCC1				SCC2				Power			
	LTE Band	Antenna Port	BW (MHz)	UL Freq (MHz)	UL Channel	Mod	UL# RB	UL# RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	With CA Tx Power (dBm)	Without CA Tx Power (dBm)	
	Inter-Band	CA_2C-12A	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 2	20M	1979.8	1098	4x4MMIMO	Band 12	10M	737.5	5095	4x4MMIMO	14.25
Band 2			2	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 2	20M	1979.8	1098	4x4MMIMO	Band 12	10M	737.5	5095	4x4MMIMO	13.94	14.1
Band 12			1	10M	707.5	23095	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	21.97	22.16
Band 12			2	10M	707.5	23095	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	Band 2	20M	1880	900	4x4MMIMO	22.25	22.49
CA_4A-4A-71A		Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 4	5M	2152.5	2375	4x4MMIMO	Band 71	20M	637	66786	4x4MMIMO	14.37	14.56
		Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 4	5M	2152.5	2375	4x4MMIMO	Band 71	20M	637	66786	4x4MMIMO	14.08	14.28
CA_25A-25A-26A		Band 25	1	20M	683	133322	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 4	5M	2152.5	2375	4x4MMIMO	23.2	23.33
		Band 25	1	20M	1880	26340	QPSK	1	0	4x4MMIMO	Band 25	5M	1992.5	8655	4x4MMIMO	Band 26	15M	876.5	8655	4x4MMIMO	16.33	16.47
CA_25A-41C		Band 26	1	15M	831.5	26865	QPSK	1	0	4x4MMIMO	Band 25	20M	1990	8400	4x4MMIMO	Band 26	5M	1992.5	8655	4x4MMIMO	22.15	22.4
		Band 25	1	20M	1880	26340	QPSK	1	0	4x4MMIMO	Band 41	20M	2693	6620	4x4MMIMO	Band 41	20M	2612.8	4918	4x4MMIMO	16.31	16.47
CA_25A-41C		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MMIMO	Band 41	20M	2612.8	4918	4x4MMIMO	Band 25	20M	1990	8400	4x4MMIMO	17.83	18.14
		Band 26	1	15M	831.5	26865	QPSK	1	0	4x4MMIMO	Band 41	20M	2593	40620	4x4MMIMO	Band 41	20M	2612.8	4918	4x4MMIMO	22.26	22.4
CA_31A-31A-41A		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MMIMO	Band 41	20M	2612.8	4918	4x4MMIMO	Band 26	15M	876.5	8655	4x4MMIMO	18.01	18.14
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MMIMO	Band 41	5M	2687.5	41565	4x4MMIMO	Band 41	20M	2596	39750	4x4MMIMO	18.01	18.14
CA_31A-31A-41A		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MMIMO	Band 41	5M	2687.5	41565	4x4MMIMO	Band 41	20M	2510	39790	4x4MMIMO	17.96	18.14
		Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2112.5	66461	4x4MMIMO	Band 66	10M	2121.8	66554	4x4MMIMO	14.51	14.73
CA_66A-66B		Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2112.5	66461	4x4MMIMO	Band 66	10M	2121.8	66554	4x4MMIMO	14.29	14.55
		Band 66	1	15M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2164.3	66979	4x4MMIMO	Band 66	20M	2120	66536	4x4MMIMO	14.45	14.62
CA_66A-66C		Band 66	2	15M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2164.3	66979	4x4MMIMO	Band 66	20M	2120	66536	4x4MMIMO	13.89	14.06
		Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2112.5	66461	4x4MMIMO	Band 66	20M	2124.2	66578	4x4MMIMO	14.64	14.73
		Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2112.5	66461	4x4MMIMO	Band 66	20M	2124.2	66578	4x4MMIMO	14.32	14.55
		Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2174.8	67084	4x4MMIMO	Band 66	5M	2112.5	66461	4x4MMIMO	14.67	14.73
Band 66		2	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2174.8	67084	4x4MMIMO	Band 66	5M	2112.5	66461	4x4MMIMO	14.36	14.55	



CA_2A-66A-66A-66A	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 30	10M	2310	9820	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	14.52	14.73
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 30	10M	2310	9820	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	14.52	14.55
	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	14.24	14.46
	Band 2	2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	13.82	14.1
CA_2A-66C-71A	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	14.44	14.73
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	14.34	14.55
	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	14.30	14.46
	Band 2	2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	13.85	14.1
CA_2A-66A-66A-71A	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 71	20M	1880	900	4x4MIMO	14.28	14.55
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	14.28	14.55
	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	14.28	14.46
	Band 2	2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	14.28	14.46
CA_4A-4A-5A-30A	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	14.33	14.56
	Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	14.06	14.28
	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	14.04	14.31
	Band 5	2	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	18.84	18.93
CA_4A-4A-12A-30A	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	14.10	14.31
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	18.70	18.93
	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	14.01	14.28
	Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	14.87	15.06
CA_4A-4A-29A-30A	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.30	22.49
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	14.20	14.31
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	18.67	18.93
	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	14.26	14.56
CA_5B-66A-66A	Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	14.03	14.28
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	14.05	14.31
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	18.70	18.93
	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	20.20	20.44
CA_5B-30A-66A	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	14.47	14.73
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	14.30	14.55
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	14.13	14.31
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	18.71	18.93
CA_5A-30A-66A-66A	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	20.02	20.29
	Band 5	2	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	20.20	20.44
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	14.47	14.73
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	14.30	14.55
CA_12A-30A-66A-66A	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	14.10	14.31
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	14.26	14.56
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	14.26	14.56
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.20	22.49
CA_14A-30A-66A-66A	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	14.10	14.31
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	18.70	18.93
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	14.51	14.73
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	14.28	14.55
CA_14A-66A-66A-66A	Band 14	1	10M	793	23330	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.64	22.95
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	14.1	



Reduced Power Mode for Hotspot on

2CA DL

Configure		PCD								SCC				Power			
		LTE Band	Antenna Port	BW (MHz)	UL Freq (MHz)	UL Channel	Mod.	UL RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	With CA Tx Power (dBm)	Without CA Tx Power (dBm)
Inter-Band	CA_5A-41A	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	19.96	20.29
		Band 5	2	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	19.75	19.93
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	836.5	20525	4x4MIMO	16.67	16.83
	CA_25A-41A	Band 25	1	20M	1980	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	15.13	15.31
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 25	20M	1980	26340	4x4MIMO	16.49	16.83
		Band 25	1	15M	831.5	26865	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.21	22.40
	CA_26A-41A	Band 26	1	15M	831.5	26865	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	22.21	22.40
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 26	15M	831.5	26865	4x4MIMO	16.52	16.83



3CA DL

Configure	PCC										SCC1				SCC2				Power			
	LTE Band	Antenna Port	BW (MHz)	UL Freq (MHz)	UL Channel	Mod	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	With CA Tx Power (dBm)	Without CA Tx Power (dBm)	
	Inter-Band	CA_2A-4A-29A	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMMO	Band 4	20M	2132.5	2175	4x4MMMO	Band 29	10M	722.5	9715	4x4MMMO	12.96
Band 2			2	20M	1880	18900	QPSK	1	0	4x4MMMO	Band 4	20M	2132.5	2175	4x4MMMO	Band 29	10M	722.5	9715	4x4MMMO	12.96	13.19
Band 4			1	20M	1732.5	20175	QPSK	1	0	4x4MMMO	Band 29	10M	722.5	9715	4x4MMMO	Band 2	20M	1880	18900	4x4MMMO	12.96	12.5
Band 2			1	20M	1880	18900	QPSK	1	0	4x4MMMO	Band 4	20M	2132.5	2175	4x4MMMO	Band 30	10M	2355	9820	4x4MMMO	12	12.26
CA_2A-4A-30A		Band 2	2	20M	1880	18900	QPSK	1	0	4x4MMMO	Band 4	20M	2132.5	2175	4x4MMMO	Band 30	10M	2355	9820	4x4MMMO	13.02	13.19
		Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MMMO	Band 30	10M	2355	9820	4x4MMMO	Band 2	20M	1880	18900	4x4MMMO	12.25	12.5
		Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MMMO	Band 30	10M	2355	9820	4x4MMMO	Band 2	20M	1880	18900	4x4MMMO	12.16	12.42
		Band 30	1	10M	2310	27710	QPSK	1	0	4x4MMMO	Band 2	20M	1880	18900	4x4MMMO	Band 4	20M	2132.5	2175	4x4MMMO	12.04	12.33
CA_2A-29A-66A		Band 30	2	10M	2310	27710	QPSK	1	0	4x4MMMO	Band 2	20M	1880	18900	4x4MMMO	Band 4	20M	2132.5	2175	4x4MMMO	15.88	16.1
		Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMMO	Band 29	10M	722.5	9715	4x4MMMO	Band 66	20M	2155	6688	4x4MMMO	12.08	12.26
		Band 2	2	20M	1880	18900	QPSK	1	0	4x4MMMO	Band 29	10M	722.5	9715	4x4MMMO	Band 66	20M	2155	6688	4x4MMMO	12.96	13.19
		Band 66	1	20M	1745	13322	QPSK	1	0	4x4MMMO	Band 2	20M	1880	18900	4x4MMMO	Band 29	10M	722.5	9715	4x4MMMO	12.51	12.72
Band 66	2	20M	1745	13322	QPSK	1	0	4x4MMMO	Band 2	20M	1880	18900	4x4MMMO	Band 29	10M	722.5	9715	4x4MMMO	12.3	12.58		

Configure	PCC										SCC1				SCC2				Power			
	LTE Band	Antenna Port	BW (MHz)	UL Freq (MHz)	UL Channel	Mod	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	With CA Tx Power (dBm)	Without CA Tx Power (dBm)	
	Inter-Band	CA_2C-12A	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMMO	Band 2	20M	1979.8	1098	4x4MMMO	Band 12	10M	737.5	5095	4x4MMMO	11.94
Band 2			2	20M	1880	18900	QPSK	1	0	4x4MMMO	Band 2	20M	1979.8	1098	4x4MMMO	Band 12	10M	737.5	5095	4x4MMMO	12.99	13.19
Band 12			1	10M	707.5	23095	QPSK	1	0	4x4MMMO	Band 2	20M	1880	18900	4x4MMMO	Band 2	20M	1979.8	1098	4x4MMMO	21.96	22.16
Band 12			2	10M	707.5	23095	QPSK	1	0	4x4MMMO	Band 2	20M	1880	18900	4x4MMMO	Band 2	20M	1979.8	1098	4x4MMMO	22.96	24.49
CA_4A-4A-71A		Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MMMO	Band 4	5M	2152.5	2375	4x4MMMO	Band 71	20M	637	66786	4x4MMMO	12.26	12.5
		Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MMMO	Band 4	5M	2152.5	2375	4x4MMMO	Band 71	20M	637	66786	4x4MMMO	12.11	12.42
CA_25A-25A-26A		Band 71	1	20M	683	133322	QPSK	1	0	4x4MMMO	Band 4	5M	2132.5	2175	4x4MMMO	Band 4	5M	2152.5	2375	4x4MMMO	23.04	23.33
		Band 25	1	20M	1880	26340	QPSK	1	0	4x4MMMO	Band 25	5M	1992.5	8655	4x4MMMO	Band 26	15M	876.5	8655	4x4MMMO	15.06	15.31
		Band 26	1	15M	831.5	26895	QPSK	1	0	4x4MMMO	Band 25	20M	1990	8440	4x4MMMO	Band 26	5M	1992.5	8655	4x4MMMO	22.25	22.4
		Band 25	1	20M	1880	26340	QPSK	1	0	4x4MMMO	Band 41	20M	2993	6020	4x4MMMO	Band 41	20M	2612.8	4918	4x4MMMO	15.05	15.31
CA_25A-41C		Band 41	1	20M	2993	40620	QPSK	1	0	4x4MMMO	Band 41	20M	2612.8	4918	4x4MMMO	Band 25	20M	1990	8440	4x4MMMO	16.6	16.83
		Band 26	1	15M	831.5	26895	QPSK	1	0	4x4MMMO	Band 41	20M	2993	40620	4x4MMMO	Band 41	20M	2612.8	4918	4x4MMMO	22.15	22.4
CA_31A-41A-41A		Band 41	1	20M	2993	40620	QPSK	1	0	4x4MMMO	Band 41	20M	2612.8	4918	4x4MMMO	Band 26	15M	876.5	8655	4x4MMMO	16.6	16.83
		Band 41	1	20M	2993	40620	QPSK	1	0	4x4MMMO	Band 41	5M	2687.5	41565	4x4MMMO	Band 41	20M	2996	39750	4x4MMMO	16.81	16.83
CA_31A-41A-41A		Band 41	1	20M	2993	40620	QPSK	1	0	4x4MMMO	Band 41	5M	2687.5	41565	4x4MMMO	Band 41	20M	2910	39790	4x4MMMO	16.58	16.83
		Band 66	1	20M	1745	13322	QPSK	1	0	4x4MMMO	Band 66	5M	2112.5	66461	4x4MMMO	Band 66	10M	2121.8	66554	4x4MMMO	12.47	12.72
CA_66A-66B		Band 66	2	20M	1745	13322	QPSK	1	0	4x4MMMO	Band 66	5M	2112.5	66461	4x4MMMO	Band 66	10M	2121.8	66554	4x4MMMO	12.43	12.58
		Band 66	1	15M	1745	13322	QPSK	1	0	4x4MMMO	Band 66	5M	2164.3	66979	4x4MMMO	Band 66	20M	2120	66536	4x4MMMO	12.19	12.46
CA_66A-66C		Band 66	2	15M	1745	13322	QPSK	1	0	4x4MMMO	Band 66	5M	2164.3	66979	4x4MMMO	Band 66	20M	2120	66536	4x4MMMO	12.05	12.36
		Band 66	1	20M	1745	13322	QPSK	1	0	4x4MMMO	Band 66	5M	2112.5	66461	4x4MMMO	Band 66	20M	2124.2	66578	4x4MMMO	12.42	12.72
		Band 66	2	20M	1745	13322	QPSK	1	0	4x4MMMO	Band 66	5M	2112.5	66461	4x4MMMO	Band 66	20M	2124.2	66578	4x4MMMO	12.34	12.58
		Band 66	1	20M	1745	13322	QPSK	1	0	4x4MMMO	Band 66	20M	2174.8	67084	4x4MMMO	Band 66	5M	2112.5	66461	4x4MMMO	12.54	12.72
Band 66		2	20M	1745	13322	QPSK	1	0	4x4MMMO	Band 66	20M	2174.8	67084	4x4MMMO	Band 66	5M	2112.5	66461	4x4MMMO	12.37	12.58	



4CA DL

Configure	PCC										SCC1										SCC2										Power	
	LTE	Antenna Port	BW (MHz)	UL Channel	UL	Mod.	UL#	UL Offset	DL Antenna Configuration	LTE	BW (MHz)	DL Channel	DL	DL Antenna Configuration	LTE	BW (MHz)	DL Channel	DL	DL Antenna Configuration	LTE	BW (MHz)	DL Channel	DL	DL Antenna Configuration	With CA	Without CA						
	Band		(MHz)	(MHz)						Band		(MHz)			Band		(MHz)			Band		(MHz)			CA	CA						
CA_2A-2A-4A-4A	Band 2	1	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 2	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	12.11	12.26						
	Band 2	2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 2	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	13.00	13.19						
	Band 4	1	20M	1732.5	2017.5	QPSK	1	0	4x4MIMO	Band 4	5M	1987.5	2375	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.31	12.5						
	Band 4	2	20M	1732.5	2017.5	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.36	12.42						
CA_2A-2A-4A-5A	Band 2	1	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 2	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	12.16	12.26						
	Band 2	2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	12.23	12.42						
	Band 5	1	10M	836.5	2052.5	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	20.11	20.29						
	Band 5	2	10M	836.5	2052.5	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	20.28	20.44						
CA_2A-2A-4A-12A	Band 2	1	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	12.59	12.26						
	Band 2	2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	12.65	13.19						
	Band 4	1	20M	1732.5	2017.5	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.31	12.5						
	Band 4	2	20M	1732.5	2017.5	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.36	12.42						
CA_2A-2A-4A-71A	Band 2	1	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	11.97	12.26						
	Band 2	2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	13.02	13.19						
	Band 4	1	20M	1732.5	2017.5	QPSK	1	0	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.22	12.42						
	Band 71	1	20M	683	13332	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.14	23.33						
CA_2A-2A-5B	Band 2	1	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	12.62	12.26						
	Band 2	2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	13.00	13.19						
	Band 5	1	10M	836.5	2052.5	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	20.13	20.29						
	Band 5	2	10M	836.5	2052.5	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	20.24	20.44						
CA_2A-2A-5A-30A	Band 2	1	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	12.07	12.26						
	Band 2	2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	12.96	13.19						
	Band 5	1	10M	836.5	2052.5	QPSK	1	0	4x4MIMO	Band 5	10M	2355	9820	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	20.12	20.29						
	Band 5	2	10M	836.5	2052.5	QPSK	1	0	4x4MIMO	Band 5	10M	2355	9820	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	20.29	20.44						
CA_2A-2A-5A-65A	Band 2	1	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 65	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	13.00	13.19						
	Band 2	2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 65	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.08	12.26						
	Band 5	1	10M	836.5	2052.5	QPSK	1	0	4x4MIMO	Band 65	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	20.28	20.44						
	Band 5	2	10M	836.5	2052.5	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.56	12.72						
CA_2A-2A-12A-30A	Band 2	1	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	12.51	12.72						
	Band 2	2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.57	12.72						
	Band 12	1	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	21.96	22.16						
	Band 12	2	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.30	22.49						
CA_2A-2A-12A-65A	Band 2	1	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 65	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.59	12.33						
	Band 2	2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 65	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.65	13.19						
	Band 12	1	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.09	12.33						
	Band 12	2	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.61	16.1						
CA_2A-2A-12A-65A-65A	Band 2	1	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 65	20M	2155	66886	4x4MIMO	12.16	12.36						
	Band 2	2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 65	20M	2155	66886	4x4MIMO	13.03	13.19						
	Band 12	1	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 65	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	21.99	22.16						
	Band 12	2	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 65	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.25	22.49						
CA_2A-2A-14A-30A	Band 2	1	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.66	12.33						
	Band 2	2	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.66	13.19						
	Band 14	1	10M	793	23330	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 14	10M	763	5330	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	13.00	13.19						
	Band 14	2	10M	793	23330	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	12.66	12.33						
CA_2A-2A-14A-65A	Band 2	1	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 65	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900														



CA_2A-66A-66A-66A	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMO	Band 66	5M	2197.5	67311	4x4MMO	Band 30	10M	2310	9820	4x4MMO	Band 2	20M	1880	900	4x4MMO	12.51	12.72
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMO	Band 66	5M	2197.5	67311	4x4MMO	Band 30	10M	2310	9820	4x4MMO	Band 2	20M	1880	900	4x4MMO	12.24	12.28
	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 66	5M	2197.5	67311	4x4MMO	Band 66	20M	2155	66886	4x4MMO	12.11	12.26
	Band 2	2	20M	1880	18900	QPSK	1	0	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 66	5M	2197.5	67311	4x4MMO	Band 66	20M	2155	66886	4x4MMO	12.06	13.19
CA_2A-66C-71A	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMO	Band 66	5M	2197.5	67311	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 2	20M	1880	900	4x4MMO	12.48	12.72
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMO	Band 66	5M	2197.5	67311	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 2	20M	1880	900	4x4MMO	12.37	12.58
	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 71	20M	637	68786	4x4MMO	11.92	12.26
	Band 2	2	20M	1880	18900	QPSK	1	0	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 71	20M	637	68786	4x4MMO	13.04	13.19
CA_2A-66A-66A-71A	Band 71	1	20M	683	133322	QPSK	1	0	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 66	20M	2155	66886	4x4MMO	12.19	23.33
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 71	20M	637	68786	4x4MMO	Band 2	20M	1880	900	4x4MMO	12.48	12.72
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 71	20M	637	68786	4x4MMO	Band 2	20M	1880	900	4x4MMO	12.37	12.58
	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 66	5M	2197.5	67311	4x4MMO	Band 71	20M	637	68786	4x4MMO	11.87	12.26
CA_4A-4A-12A-30A	Band 66	1	20M	683	133322	QPSK	1	0	4x4MMO	Band 66	5M	2197.5	67311	4x4MMO	Band 13	10M	737.5	5095	4x4MMO	Band 30	10M	2355	9820	4x4MMO	12.35	12.5
	Band 66	2	20M	683	133322	QPSK	1	0	4x4MMO	Band 66	5M	2197.5	67311	4x4MMO	Band 13	10M	737.5	5095	4x4MMO	Band 30	10M	2355	9820	4x4MMO	12.34	12.58
	Band 71	1	20M	683	133322	QPSK	1	0	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 66	5M	2197.5	67311	4x4MMO	Band 66	20M	2155	66886	4x4MMO	23.12	23.33
	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 30	10M	2355	9820	4x4MMO	12.16	12.5
CA_4A-4A-20A-30A	Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 30	10M	2355	9820	4x4MMO	12.29	12.42
	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MMO	Band 30	10M	2355	9820	4x4MMO	Band 4	20M	2132.5	2175	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	20.16	20.29
	Band 5	2	10M	836.5	20525	QPSK	1	0	4x4MMO	Band 30	10M	2355	9820	4x4MMO	Band 4	20M	2132.5	2175	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	20.16	20.44
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 4	20M	2132.5	2175	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	12.10	12.33
CA_4A-4A-12A-30A	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 4	20M	2132.5	2175	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	12.76	16.1
	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	Band 13	10M	737.5	5095	4x4MMO	Band 30	10M	2355	9820	4x4MMO	12.35	12.5
	Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	Band 13	10M	737.5	5095	4x4MMO	Band 30	10M	2355	9820	4x4MMO	12.29	12.42
	Band 12	1	10M	707.5	23095	QPSK	1	0	4x4MMO	Band 4	10M	2355	9820	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	21.88	22.16
CA_4A-4A-20A-30A	Band 12	2	10M	707.5	23095	QPSK	1	0	4x4MMO	Band 30	10M	2355	9820	4x4MMO	Band 4	20M	2132.5	2175	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	22.26	22.49
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MMO	Band 12	10M	737.5	5095	4x4MMO	Band 4	20M	2132.5	2175	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	11.94	12.33
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MMO	Band 12	10M	737.5	5095	4x4MMO	Band 4	20M	2132.5	2175	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	15.97	16.1
	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	Band 29	10M	722.5	9715	4x4MMO	Band 30	10M	2355	9820	4x4MMO	12.36	12.5
CA_4A-4A-20A-30A	Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	Band 29	10M	722.5	9715	4x4MMO	Band 30	10M	2355	9820	4x4MMO	12.14	12.42
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MMO	Band 29	10M	722.5	9715	4x4MMO	Band 4	20M	2132.5	2175	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	12.10	12.33
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MMO	Band 29	10M	722.5	9715	4x4MMO	Band 4	20M	2132.5	2175	4x4MMO	Band 4	5M	2152.5	2375	4x4MMO	15.71	16.1
	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	Band 30	10M	2355	9820	4x4MMO	Band 66	20M	2155	66886	4x4MMO	20.14	20.29
CA_5B-66A-66A	Band 5	2	10M	836.5	20525	QPSK	1	0	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	Band 30	10M	2355	9820	4x4MMO	Band 66	20M	2155	66886	4x4MMO	20.30	20.44
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMO	Band 30	10M	2355	9820	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	12.48	12.72
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMO	Band 30	10M	2355	9820	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	12.37	12.58
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	11.94	12.33
CA_5B-66A-66A	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	15.97	16.1
	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 66	20M	2155	66886	4x4MMO	20.16	20.29
	Band 5	2	10M	836.5	20525	QPSK	1	0	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 66	20M	2155	66886	4x4MMO	20.20	20.44
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMO	Band 30	10M	2355	9820	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	12.48	12.72
CA_5A-30A-66A-66A	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMO	Band 30	10M	2355	9820	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	12.37	12.58
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	11.94	12.33
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	15.97	16.1
	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	Band 66	20M	2155	66886	4x4MMO	Band 66	20M	2155	66886	4x4MMO	20.16	20.44
CA_12A-30A-66A-66A	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMO	Band 30	10M	2355	9820	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	12.48	12.72
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMO	Band 30	10M	2355	9820	4x4MMO	Band 5	10M	881.5	2525	4x4MMO	Band 5	10M	881.2	2597	4x4MMO	12.37	12.58



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

Configure		PCP										SCC				Power	
		LTE	Antenna Port	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	RB Offset		Band	(MHz)	Freq (MHz)	Channel		Tx Power (dBm)	Tx Power (dBm)
Inter-Band	CA_5A-41A	Band 5	1	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.24	22.57
		Band 5	2	10M	836.5	20525	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.19	22.45
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 5	10M	831.5	2025		21.42	21.78
	CA_25A-41A	Band 25	1	20M	1880	36340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	20.18	20.34
		Band 41	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 25	20M	1880	8340	4x4MIMO	21.46	21.78
		Band 41	1	15M	831.5	26865	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.98	23.22
	CA_20A-41A	Band 20	1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 20	15M	876.5	8860		21.49	21.78



3CA DL

Configure	PCC										SCC1				SCC2				Power			
	LTE Band	Antenna Port	BW (MHz)	UL Freq (MHz)	UL Channel	Mod	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	With CA Tx Power (dBm)	Without CA Tx Power (dBm)	
	Inter-Band	CA_2A-4A-29A	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	17.24
Band 2			2	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	17.65	17.81
Band 4			1	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	15.97	16.21
Band 4			2	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	16.6	16.81
CA_2A-4A-30A		Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 30	10M	2355	9820	4x4MMIMO	17.29	17.36
		Band 2	2	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 30	10M	2355	9820	4x4MMIMO	17.63	17.81
		Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 30	10M	2355	9820	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	16.01	16.21
		Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 30	10M	2355	9820	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	16.52	16.81
CA_2A-29A-66A		Band 30	1	10M	2310	27710	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	17.53	17.74
		Band 30	2	10M	2310	27710	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	20.79	20.86
		Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	Band 66	20M	2155	6688	4x4MMIMO	17.21	17.36
		Band 2	2	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	Band 66	20M	2155	6688	4x4MMIMO	17.65	17.81
Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	16.19	16.38		
Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	Band 29	10M	722.5	9715	4x4MMIMO	16.74	16.97		

Configure	PCC										SCC1				SCC2				Power			
	LTE Band	Antenna Port	BW (MHz)	UL Freq (MHz)	UL Channel	Mod	UL# RB	UL RB Offset	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	LTE Band	BW (MHz)	DL Freq (MHz)	DL Channel	DL Antenna Configuration	With CA Tx Power (dBm)	Without CA Tx Power (dBm)	
	Inter-Band	CA_2C-12A	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 2	20M	1979.8	1098	4x4MMIMO	Band 12	10M	737.5	5095	4x4MMIMO	17.25
Band 2			2	20M	1880	18900	QPSK	1	0	4x4MMIMO	Band 2	20M	1979.8	1098	4x4MMIMO	Band 12	10M	737.5	5095	4x4MMIMO	17.69	17.81
Band 12			1	10M	707.5	23095	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	22.51	22.69
Band 12			2	10M	707.5	23095	QPSK	1	0	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	Band 2	20M	1880	18900	4x4MMIMO	22.25	22.49
CA_4A-4A-71A		Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 4	5M	2152.5	2375	4x4MMIMO	Band 71	20M	637	66786	4x4MMIMO	16.02	16.21
		Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MMIMO	Band 4	5M	2152.5	2375	4x4MMIMO	Band 71	20M	637	66786	4x4MMIMO	16.78	16.81
CA_25A-25A-26A		Band 25	1	20M	683	133322	QPSK	1	0	4x4MMIMO	Band 4	20M	2132.5	2175	4x4MMIMO	Band 4	5M	2152.5	2375	4x4MMIMO	23.15	23.33
		Band 25	1	20M	1880	26340	QPSK	1	0	4x4MMIMO	Band 25	5M	1992.5	8655	4x4MMIMO	Band 26	15M	876.5	8865	4x4MMIMO	20.14	20.34
CA_25A-41C		Band 26	1	15M	831.5	26865	QPSK	1	0	4x4MMIMO	Band 25	20M	1990	8440	4x4MMIMO	Band 25	5M	1992.5	8655	4x4MMIMO	22.93	23.22
		Band 25	1	20M	1880	26340	QPSK	1	0	4x4MMIMO	Band 41	20M	2993	6620	4x4MMIMO	Band 41	20M	2612.8	49818	4x4MMIMO	20.15	20.34
CA_25A-41C		Band 41	1	20M	2993	40620	QPSK	1	0	4x4MMIMO	Band 41	20M	2612.8	49818	4x4MMIMO	Band 25	20M	1990	8440	4x4MMIMO	21.71	21.78
		Band 26	1	15M	831.5	26865	QPSK	1	0	4x4MMIMO	Band 41	20M	2993	40620	4x4MMIMO	Band 41	20M	2612.8	49818	4x4MMIMO	23.07	23.22
CA_31A-31A-41A		Band 41	1	20M	2993	40620	QPSK	1	0	4x4MMIMO	Band 41	20M	2612.8	49818	4x4MMIMO	Band 26	15M	876.5	8865	4x4MMIMO	21.67	21.78
		Band 41	1	20M	2993	40620	QPSK	1	0	4x4MMIMO	Band 41	5M	2687.5	41565	4x4MMIMO	Band 41	20M	2996	39750	4x4MMIMO	21.84	21.78
CA_31A-31A-41A		Band 41	1	20M	2993	40620	QPSK	1	0	4x4MMIMO	Band 41	5M	2687.5	41565	4x4MMIMO	Band 41	20M	2910	39790	4x4MMIMO	21.57	21.78
		Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2112.5	66461	4x4MMIMO	Band 66	10M	2121.8	66554	4x4MMIMO	16.27	16.38
CA_66A-66B		Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2112.5	66461	4x4MMIMO	Band 66	10M	2121.8	66554	4x4MMIMO	16.82	16.97
		Band 66	1	15M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2164.3	66979	4x4MMIMO	Band 66	20M	2120	66536	4x4MMIMO	15.6	15.78
CA_66A-66C		Band 66	2	15M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2164.3	66979	4x4MMIMO	Band 66	20M	2120	66536	4x4MMIMO	16.3	16.34
		Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2112.5	66461	4x4MMIMO	Band 66	20M	2124.2	66578	4x4MMIMO	16.17	16.38
		Band 66	2	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	5M	2112.5	66461	4x4MMIMO	Band 66	20M	2124.2	66578	4x4MMIMO	16.9	16.97
		Band 66	1	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2174.8	67084	4x4MMIMO	Band 66	5M	2112.5	66461	4x4MMIMO	16.26	16.38
Band 66		2	20M	1745	132322	QPSK	1	0	4x4MMIMO	Band 66	20M	2174.8	67084	4x4MMIMO	Band 66	5M	2112.5	66461	4x4MMIMO	16.81	16.97	



CA_2A-66A-66A-66A	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 30	10M	2310	9820	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	16.23	16.38
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 30	10M	2310	9820	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	16.65	16.97
	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	17.25	17.36
	Band 2	2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	17.71	17.81
CA_2A-66C-71A	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	16.10	16.38
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	16.73	16.97
	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	17.24	17.36
	Band 2	2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	17.71	17.81
CA_2A-66A-66A-71A	Band 71	1	20M	683	133322	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.01	23.33
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	16.17	16.38
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2164.8	66984	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	16.72	16.97
	Band 2	1	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 71	20M	637	68786	4x4MIMO	17.05	17.26
CA_4A-4A-12A-30A	Band 66	1	20M	683	133322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	15.98	16.21
	Band 66	2	20M	683	133322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	16.30	16.38
	Band 2	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	15.98	16.21
	Band 2	2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	16.40	16.81
CA_4A-4A-29A-30A	Band 12	1	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 4	10M	2355	9820	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.38	22.69
	Band 12	2	10M	707.5	23095	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.31	22.49
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	17.47	17.74
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	20.60	20.86
CA_4A-4A-29A-30A	Band 4	1	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	15.91	16.21
	Band 4	2	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	16.66	16.81
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	17.51	17.74
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 29	10M	722.5	9715	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	20.67	20.86
CA_5B-66A-66A	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.47	22.57
	Band 5	2	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.13	22.45
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	16.07	16.38
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	16.82	16.97
CA_5B-66A-66A	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	17.51	17.74
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	20.61	20.86
	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.24	22.57
	Band 5	2	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.36	22.45
CA_5A-30A-66A-66A	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	16.21	16.38
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	16.62	16.97
	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	17.51	17.74
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	20.61	20.86
CA_12A-30A-66A-66A	Band 5	1	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.47	22.57
	Band 5	2	10M	836.5	20525	QPSK	1	0	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.13	22.45
	Band 66	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	16.07	16.38
	Band 66	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 30	10M	2355	9820	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 5	5M	881.2	2597	4x4MIMO	16.82	16.97
CA_12A-30A-66A-66A	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	17.51	17.74
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	20.61	20.86
	Band 12	1	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.32	22.49
	Band 12	2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.33	22.49
CA_14A-30A-66A-66A	Band 30	1	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	17.64	17.74
	Band 30	2	10M	2310	27710	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 12	10M	737.5	5095	4x4MIMO	20.54	20



LAT Reduced Power Mode for Sensor On-ENOC&UL CA

Table with 12 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 Part 24E and Part 27L.

Table with 12 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 Part 27L (only on channel required) and Part 20G.

Table with 12 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 Part 22H (only on channel required) and Part 20G.



Band 12 (700MHz Low Band) UL CA&ENDC										
Part 27F (only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.80	22.16	21.95	22.5	0		
10	QPSK	1	25	21.82	21.89	22.01				
10	QPSK	1	49	21.99	21.83	22.10				
10	QPSK	25	0	21.80	21.93	21.84	22.5	0		
10	QPSK	25	12	21.78	21.80	21.92				
10	QPSK	25	25	21.87	21.81	21.85				
10	QPSK	50	0	21.76	21.83	21.81	22.5	0		
10	16QAM	1	0	21.83	21.84	21.80				
10	16QAM	1	25	21.72	21.78	21.80				
10	16QAM	1	49	21.73	22.11	21.80	22	0.5		
10	16QAM	25	0	21.35	21.40	21.30				
10	16QAM	25	12	21.54	21.55	21.59				
10	16QAM	25	25	21.58	21.63	21.43	22	0.5		
10	16QAM	50	0	21.48	21.73	21.39				
10	64QAM	1	0	21.72	21.88	21.89				
10	64QAM	1	25	21.74	21.78	21.71	22	0.5		
10	64QAM	1	49	21.93	21.98	21.72				
10	64QAM	25	0	20.47	20.48	20.31				
10	64QAM	25	12	20.62	20.57	20.64	21	1.5		
10	64QAM	25	25	20.56	20.57	20.40				
10	64QAM	50	0	20.51	20.47	20.61				
Channel										
Frequency (MHz)										
5	QPSK	1	0	21.76	21.83	21.96	22.5	0		
5	QPSK	1	12	21.89	21.87	21.82				
5	QPSK	1	24	21.90	21.71	21.80				
5	QPSK	12	0	21.73	21.73	21.69	22.5	0		
5	QPSK	12	7	21.73	21.77	21.71				
5	QPSK	12	13	21.71	21.79	21.71				
5	QPSK	25	0	21.86	21.98	22.04	22.5	0		
5	16QAM	1	0	21.89	21.89	21.71				
5	16QAM	1	12	21.86	21.98	22.04				
5	16QAM	1	24	21.89	21.89	21.71	22	0.5		
5	16QAM	12	0	21.58	21.59	21.42				
5	16QAM	12	7	21.49	21.49	21.51				
5	16QAM	12	13	21.51	21.67	21.43	22	0.5		
5	16QAM	25	0	21.86	21.98	21.89				
5	64QAM	1	0	21.38	21.34	21.35				
5	64QAM	1	12	21.43	21.39	21.77	22	0.5		
5	64QAM	1	24	21.41	21.50	21.39				
5	64QAM	12	0	20.54	20.55	20.49				
5	64QAM	12	7	20.48	20.53	20.45	21	1.5		
5	64QAM	12	13	20.46	20.61	20.55				
5	64QAM	25	0	20.45	20.55	20.45				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.01	21.80	21.85	22.5	0		
3	QPSK	1	8	21.96	21.99	22.01				
3	QPSK	1	14	21.86	22.01	21.85				
3	QPSK	8	0	21.70	21.79	21.71	22.5	0		
3	QPSK	8	4	21.89	21.78	21.83				
3	QPSK	8	7	21.83	21.86	21.75				
3	QPSK	15	0	21.79	21.79	21.78	22.5	0		
3	16QAM	1	0	21.95	22.15	22.04				
3	16QAM	1	8	21.70	21.79	21.71				
3	16QAM	1	14	21.95	22.15	22.04	22	0.5		
3	16QAM	8	0	21.45	21.81	21.41				
3	16QAM	8	4	21.62	21.50	21.63				
3	16QAM	8	7	21.52	21.69	21.57	22	0.5		
3	16QAM	15	0	21.50	21.57	21.48				
3	64QAM	1	0	21.76	21.46	21.40				
3	64QAM	1	8	21.80	21.55	21.57	22	0.5		
3	64QAM	1	14	21.48	21.47	21.76				
3	64QAM	8	0	20.56	20.54	20.48				
3	64QAM	8	4	20.53	20.56	20.73	21	1.5		
3	64QAM	8	7	20.68	20.77	20.69				
3	64QAM	15	0	20.45	20.53	20.52				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	21.76	21.83	21.82	22.5	0		
1.4	QPSK	1	3	21.91	21.91	21.81				
1.4	QPSK	1	5	21.83	21.90	21.70				
1.4	QPSK	3	0	21.79	21.78	21.74	22.5	0		
1.4	QPSK	3	1	21.83	21.76	21.79				
1.4	QPSK	3	3	21.74	21.87	21.72				
1.4	QPSK	6	0	21.69	21.75	21.60	22.5	0		
1.4	16QAM	1	0	21.83	21.90	21.70				
1.4	16QAM	1	3	21.79	21.78	21.74				
1.4	16QAM	1	5	21.83	21.76	21.79	22.5	0		
1.4	16QAM	3	0	21.78	21.77	21.70				
1.4	16QAM	3	1	21.83	21.90	21.70				
1.4	16QAM	3	3	21.79	21.78	21.74	22	0.5		
1.4	16QAM	6	0	21.83	21.76	21.79				
1.4	64QAM	1	0	21.60	21.40	21.68				
1.4	64QAM	1	3	21.46	21.82	21.53	22	0.5		
1.4	64QAM	1	5	21.58	21.52	21.53				
1.4	64QAM	3	0	21.58	21.57	21.54				
1.4	64QAM	3	1	21.81	21.44	21.74	21	1.5		
1.4	64QAM	3	3	21.65	21.64	21.50				
1.4	64QAM	6	0	20.75	20.77	20.75				

Band 30-ENDC										
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	14.31	14.31	14.31	14.5	0		
10	QPSK	1	25	14.21	14.21	14.21				
10	QPSK	1	49	14.22	14.22	14.22				
10	QPSK	25	0	13.90	13.90	13.90	14.5	0		
10	QPSK	25	12	13.86	13.86	13.86				
10	QPSK	25	25	13.74	13.74	13.74				
10	QPSK	50	0	13.77	13.77	13.77	14.5	0		
10	16QAM	1	0	14.29	14.29	14.29				
10	16QAM	1	25	14.27	14.27	14.27				
10	16QAM	1	49	14.24	14.24	14.24	14.5	0		
10	16QAM	25	0	13.88	13.88	13.88				
10	16QAM	25	12	13.97	13.97	13.97				
10	16QAM	25	25	13.93	13.93	13.93	14.5	0		
10	16QAM	50	0	13.89	13.89	13.89				
10	64QAM	1	0	14.30	14.30	14.30				
10	64QAM	1	25	14.30	14.30	14.30	14.5	0		
10	64QAM	1	49	14.29	14.29	14.29				
10	64QAM	25	0	13.87	13.87	13.87				
10	64QAM	25	12	13.96	13.96	13.96	14.5	0		
10	64QAM	25	25	13.94	13.94	13.94				
10	64QAM	50	0	13.86	13.86	13.86				
Channel										
Frequency (MHz)										
5	QPSK	1	0	14.23	14.22	14.12	14.5	0		
5	QPSK	1	12	14.21	14.23	14.10				
5	QPSK	1	24	14.12	14.19	14.12				
5	QPSK	12	0	14.26	14.23	14.11	14.5	0		
5	QPSK	12	7	14.21	14.23	14.21				
5	QPSK	12	13	14.12	14.21	14.22				
5	QPSK	25	0	14.19	14.19	14.21	14.5	0		
5	16QAM	1	0	14.09	14.15	14.14				
5	16QAM	1	12	14.22	14.22	14.21				
5	16QAM	1	24	14.16	14.20	14.19	14.5	0		
5	16QAM	12	0	14.02	14.11	14.12				
5	16QAM	12	7	14.02	14.03	14.09				
5	16QAM	12	13	14.09	14.07	14.01	14.5	0		
5	16QAM	25	0	14.01	14.12	14.11				
5	64QAM	1	0	14.02	14.06	14.06				
5	64QAM	1	12	14.19	14.18	14.13	14.5	0		
5	64QAM	1	24	14.08	14.09	14.07				
5	64QAM	12	0	14.00	14.01	14.09				
5	64QAM	12	7	14.02	14.05	14.07	14.5	0		
5	64QAM	12	13	14.11	14.12	14.00				
5	64QAM	25	0	14.12	14.01	14.01				

Band 66 UL CA&ENDC										
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	14.42	14.73	14.71	15.5	0		
20	QPSK	1	49	14.46	14.69	14.60				
20	QPSK	1	98	14.35	14.36	14.44				
20	QPSK	50	0	14.41	14.65	14.34	15.5	0		
20	QPSK	50	24	14.49	14.47	14.				



Band 4 (900MHz Band) Part 24E CA-EANEO									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Mids Ch. (Freq)	Power High Ch. (Freq)	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	12.21	12.26	12.12	13	0	
20	QPSK	1	49	12.22	12.12	11.92			
20	QPSK	1	99	12.23	12.13	12.13			
20	QPSK	50	0	12.03	12.04	12.02			
20	QPSK	50	24	11.91	11.96	11.91	13	0	
20	QPSK	50	50	12.03	11.96	11.91			
20	QPSK	100	0	11.97	12.02	11.80			
20	16QAM	1	0	11.91	12.12	11.91			
20	16QAM	1	49	11.75	11.91	11.96	13	0	
20	16QAM	1	99	12.04	11.91	11.70			
20	16QAM	50	0	11.55	11.59	11.49			
20	16QAM	50	24	11.63	11.59	11.48	13	0	
20	16QAM	50	50	11.81	11.54	11.21			
20	16QAM	100	0	11.49	11.48	11.46			
20	64QAM	1	0	11.60	11.90	11.80			
20	64QAM	1	49	11.73	12.02	11.79	13	0	
20	64QAM	1	99	11.70	11.79	11.73			
20	64QAM	50	0	11.45	11.48	11.45			
20	64QAM	50	24	11.81	11.63	11.66			
20	64QAM	50	50	11.57	11.63	11.56	13	0	
20	64QAM	100	0	11.82	11.75	11.56			
Channel									
Frequency (MHz)									
15	QPSK	1	0	12.11	12.12	12.14	13	0	
15	QPSK	1	37	11.96	11.96	12.12			
15	QPSK	1	74	12.03	12.02	11.91			
15	QPSK	38	0	11.82	11.53	11.60	13	0	
15	QPSK	38	20	11.85	11.67	11.74			
15	QPSK	38	50	11.87	11.64	11.66	13	0	
15	QPSK	75	0	11.59	11.59	11.61			
15	16QAM	1	0	11.99	12.19	11.96			
15	16QAM	1	37	12.01	11.85	12.08	13	0	
15	16QAM	1	74	11.91	11.99	11.71			
15	16QAM	38	0	11.55	11.63	11.62			
15	16QAM	38	20	11.69	11.81	11.76	13	0	
15	16QAM	38	50	11.61	11.69	11.76			
15	16QAM	75	0	11.62	11.53	11.56			
15	16QAM	1	0	11.91	11.84	11.82			
15	64QAM	1	37	11.84	11.78	12.02	13	0	
15	64QAM	1	74	11.75	11.91	11.84			
15	64QAM	38	0	11.60	11.50	11.51			
15	64QAM	38	20	11.65	11.72	11.72	13	0	
15	64QAM	38	50	11.67	11.63	11.72			
15	64QAM	75	0	11.87	11.82	11.95			
Channel									
Frequency (MHz)									
10	QPSK	1	0	12.22	12.21	12.21	13	0	
10	QPSK	1	25	12.23	12.21	12.26			
10	QPSK	1	49	12.26	12.22	12.30			
10	QPSK	25	0	11.86	11.82	11.93	13	0	
10	QPSK	25	12	11.95	11.94	11.93			
10	QPSK	25	25	11.93	11.82	11.92			
10	QPSK	50	0	11.76	11.78	11.88			
10	16QAM	1	0	12.23	12.22	12.27	13	0	
10	16QAM	1	25	12.19	12.37	12.50			
10	16QAM	1	49	12.17	12.52	12.65			
10	16QAM	25	0	11.87	11.84	11.97	13	0	
10	16QAM	25	12	11.99	11.88	11.89			
10	16QAM	25	25	11.85	11.84	11.82			
10	16QAM	50	0	11.86	11.84	12.12			
10	64QAM	1	0	12.21	12.22	12.45	13	0	
10	64QAM	1	25	12.01	12.02	12.12			
10	64QAM	1	49	12.02	12.10	12.12			
10	64QAM	25	0	11.82	11.92	12.06			
10	64QAM	25	12	11.93	11.93	11.84			
10	64QAM	25	25	11.98	11.82	11.84			
10	64QAM	50	0	11.98	11.91	12.08	13	0	
Channel									
Frequency (MHz)									
5	QPSK	1	0	11.81	11.89	11.83	13	0	
5	QPSK	1	12	11.97	12.08	11.95			
5	QPSK	1	24	11.71	11.84	12.02			
5	QPSK	12	0	11.96	11.94	11.96	13	0	
5	QPSK	12	7	12.04	12.00	12.12			
5	QPSK	12	13	11.84	11.90	11.85			
5	QPSK	25	0	11.95	11.97	12.01			
5	16QAM	1	0	12.21	12.15	12.45	13	0	
5	16QAM	1	12	12.14	12.02	12.24			
5	16QAM	1	24	12.05	12.09	11.98			
5	16QAM	12	0	12.01	11.97	12.05	13	0	
5	16QAM	12	7	11.98	12.07	12.04			
5	16QAM	12	13	11.87	11.92	11.96			
5	16QAM	25	0	11.93	11.87	12.05			
5	64QAM	1	0	11.95	11.75	12.07	13	0	
5	64QAM	1	12	12.27	12.25	12.28			
5	64QAM	1	24	12.05	11.77	12.11			
5	64QAM	12	0	11.92	11.91	11.90			
5	64QAM	12	7	11.92	11.97	12.05	13	0	
5	64QAM	12	13	11.92	11.81	11.95			
5	64QAM	25	0	11.91	11.94	12.03			
Channel									
Frequency (MHz)									
3	QPSK	1	0	11.82	11.81	11.88	13	0	
3	QPSK	1	8	11.94	12.03	12.07			
3	QPSK	1	14	11.82	11.94	12.03			
3	QPSK	8	0	11.97	11.94	12.07	13	0	
3	QPSK	8	4	11.99	12.04	12.02			
3	QPSK	8	7	11.98	11.98	12.03			
3	QPSK	15	0	11.93	11.94	12.05	13	0	
3	16QAM	1	0	12.27	12.15	12.35			
3	16QAM	1	8	12.02	12.02	12.01	13	0	
3	16QAM	1	14	12.19	12.27	12.26			
3	16QAM	8	0	12.07	12.02	12.14			
3	16QAM	8	4	12.12	11.99	12.03	13	0	
3	16QAM	8	7	11.93	12.00	12.11			
3	16QAM	15	0	11.91	12.12	12.13			
3	64QAM	1	0	12.13	12.03	12.37	13	0	
3	64QAM	1	8	12.18	11.95	12.15			
3	64QAM	1	14	12.10	12.13	12.18			
3	64QAM	8	0	12.06	11.90	12.14			
3	64QAM	8	4	12.07	12.01	12.10	13	0	
3	64QAM	8	7	11.89	12.01	12.00			
3	64QAM	15	0	12.00	11.96	12.05			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	11.81	11.87	11.81	13	0	
1.4	QPSK	1	3	11.83	11.83	11.92			
1.4	QPSK	1	5	11.79	11.80	11.94			
1.4	QPSK	3	0	11.83	11.87	11.97	13	0	
1.4	QPSK	3	1	11.88	11.85	11.94			
1.4	QPSK	3	1	11.78	11.82	11.92			
1.4	QPSK	6	0	11.80	11.85	11.95	13	0	
1.4	16QAM	1	0	11.98	12.08	12.28			
1.4	16QAM	1	3	12.09	11.95	12.28	13	0	
1.4	16QAM	1	5	11.82	12.00	12.02			
1.4	16QAM	3	0	11.85	11.95	12.08			
1.4	16QAM	3	1	11.91	11.99	12.13			
1.4	16QAM	3	3	11.98	12.02	12.00	13	0	
1.4	16QAM	6	0	11.94	12.02	12.23			
1.4	64QAM	1	0	12.10	11.85	12.05	13	0	
1.4	64QAM	1	3	12.38	11.96	11.90			
1.4	64QAM	1	5	12.42	11.92	11.97			
1.4	64QAM	3	0	11.90	11.89	12.01	13	0	
1.4	64QAM	3	1	12.19	12.04	12.03			
1.4	64QAM	3	3	11.93	12.01	11.86			
1.4	64QAM	6	0	11.87	12.00	12.00	13	0	

LAT Reduced Power Mode for Hotspot On-EndC&U CA Band 4 (AWS Band) UL CA Part 27L (only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Mids Ch. (Freq)	Power High Ch. (Freq)	Turn-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	12.54	12.50	12.50	13.5	0	
20	QPSK	1	49	12.12	12.16	12.44			
20	QPSK	1	99	12.36	12.36	12.33			
20	QPSK	50	0	12.33	12.38	12.29			
20	QPSK	50	24	12.34	12.25	12.33	13.5	0	
20	QPSK	50	50						



Band 12 (700MHz Low Band) UL CA#ENDC Part 27 (only on channel required)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. (Freq)	Power Middle Ch. (Freq)	Power High Ch. (Freq)	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	2190	2210	2195			
10	QPSK	1	25	2182	2183	2201	22.5	0	
10	QPSK	1	49	2186	2193	2210			
10	QPSK	25	0	2180	2193	2184			
10	QPSK	25	12	2178	2180	2192	22.5	0	
10	QPSK	25	25	2187	2181	2185			
10	QPSK	50	0	2176	2183	2181			
10	HS-DSSS	1	0	2183	2184	2190			
10	HS-DSSS	1	25	2172	2178	2200	22.5	0	
10	HS-DSSS	1	49	2173	2211	2180			
10	HS-DSSS	25	0	2135	2140	2130			
10	HS-DSSS	25	12	2154	2155	2159	22	0.5	
10	HS-DSSS	25	25	2158	2163	2143			
10	HS-DSSS	50	0	2148	2173	2139			
10	HS-DSSS	1	0	2172	2168	2189			
10	HS-DSSS	1	25	2174	2176	2171	22	0.5	
10	HS-DSSS	1	49	2193	2198	2172			
10	HS-DSSS	25	0	2047	2048	2031			
10	HS-DSSS	25	12	2062	2057	2064			
10	HS-DSSS	25	25	2056	2057	2040	21	1.5	
10	HS-DSSS	50	0	2051	2047	2061			
Channel									
Frequency (MHz)									
5	QPSK	1	0	2176	2183	2196			
5	QPSK	1	12	2189	2187	2182	22.5	0	
5	QPSK	1	24	2190	2171	2180			
5	QPSK	12	0	2173	2173	2169			
5	QPSK	12	7	2173	2177	2171	22.5	0	
5	QPSK	25	13	2171	2179	2171			
5	QPSK	25	0	2186	2198	2204			
5	HS-DSSS	1	0	2189	2189	2171			
5	HS-DSSS	1	12	2186	2196	2204	22.5	0	
5	HS-DSSS	1	24	2189	2189	2171			
5	HS-DSSS	12	0	2149	2149	2151			
5	HS-DSSS	12	13	2151	2167	2143	22	0.5	
5	HS-DSSS	25	0	2186	2196	2189			
5	HS-DSSS	1	0	2196	2194	2190			
5	HS-DSSS	12	0	2143	2148	2177	22	0.5	
5	HS-DSSS	1	24	2141	2150	2139			
5	HS-DSSS	12	0	2054	2055	2049			
5	HS-DSSS	12	7	2048	2053	2045	21	1.5	
5	HS-DSSS	12	13	2045	2053	2045			
5	HS-DSSS	25	0	2045	2053	2045			
Channel									
Frequency (MHz)									
3	QPSK	1	0	2201	2190	2185			
3	QPSK	1	8	2196	2199	2201	22.5	0	
3	QPSK	1	14	2186	2201	2186			
3	QPSK	8	0	2170	2179	2171			
3	QPSK	8	4	2189	2178	2183	22.5	0	
3	QPSK	8	7	2183	2186	2175			
3	QPSK	15	0	2179	2179	2178			
3	HS-DSSS	1	0	2195	2215	2204			
3	HS-DSSS	1	8	2170	2179	2171	22.5	0	
3	HS-DSSS	1	14	2195	2215	2204			
3	HS-DSSS	8	0	2145	2161	2141			
3	HS-DSSS	8	4	2162	2150	2163	22	0.5	
3	HS-DSSS	8	7	2152	2169	2157			
3	HS-DSSS	15	0	2150	2157	2148			
3	HS-DSSS	1	0	2176	2146	2140			
3	HS-DSSS	1	8	2180	2155	2157	22	0.5	
3	HS-DSSS	1	14	2148	2147	2176			
3	HS-DSSS	8	0	2055	2054	2048			
3	HS-DSSS	8	4	2053	2055	2073			
3	HS-DSSS	8	7	2068	2077	2069	21	1.5	
3	HS-DSSS	15	0	2045	2053	2052			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	2176	2183	2193			
1.4	QPSK	1	3	2191	2191	2181			
1.4	QPSK	1	5	2183	2190	2170			
1.4	QPSK	3	0	2179	2178	2174	22.5	0	
1.4	QPSK	3	1	2183	2176	2179			
1.4	QPSK	3	3	2174	2187	2172			
1.4	QPSK	6	0	2189	2175	2160	22.5	0	
1.4	HS-DSSS	1	0	2183	2190	2170			
1.4	HS-DSSS	1	3	2179	2178	2174			
1.4	HS-DSSS	1	5	2183	2176	2179	22.5	0	
1.4	HS-DSSS	3	0	2178	2177	2170			
1.4	HS-DSSS	3	1	2183	2190	2170			
1.4	HS-DSSS	3	3	2179	2178	2174			
1.4	HS-DSSS	6	0	2183	2176	2179	22	0.5	
1.4	HS-DSSS	1	0	2160	2140	2158			
1.4	HS-DSSS	1	3	2146	2140	2153			
1.4	HS-DSSS	1	5	2158	2152	2153	22	0.5	
1.4	HS-DSSS	3	0	2188	2157	2184			
1.4	HS-DSSS	3	1	2161	2144	2174			
1.4	HS-DSSS	3	3	2165	2164	2150			
1.4	HS-DSSS	6	0	2075	2077	2075	21	1.5	

Band 30 ENDC									
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	1262	1233				
10	QPSK	1	25	1223			12.5	0	
10	QPSK	1	49	1225					
10	QPSK	25	0	1222					
10	QPSK	25	12	1221			12.5	0	
10	QPSK	25	25	1212					
10	QPSK	50	0	1205					
10	HS-DSSS	1	0	1221					
10	HS-DSSS	1	25	1221			12.5	0	
10	HS-DSSS	1	49	1200					
10	HS-DSSS	25	0	1173					
10	HS-DSSS	25	12	1182			12.5	0	
10	HS-DSSS	25	25	1175					
10	HS-DSSS	50	0	1175					
10	HS-DSSS	1	0	1212					
10	HS-DSSS	1	25	1213			12.5	0	
10	HS-DSSS	1	49	1207					
10	HS-DSSS	25	0	1180					
10	HS-DSSS	25	12	1197			12.5	0	
10	HS-DSSS	25	25	1181					
10	HS-DSSS	50	0	1181					
Channel									
Frequency (MHz)									
5	QPSK	1	0	1174	1181	1187			
5	QPSK	1	12	1184	1184	1178	12.5	0	
5	QPSK	1	24	1183	1161	1183			
5	QPSK	12	0	1192	1189	1193			
5	QPSK	12	7	1202	1184	1199	12.5	0	
5	QPSK	12	13	1191	1179	1185			
5	QPSK	25	0	1193	1188	1193			
5	HS-DSSS	1	0	1209	1221	1202			
5	HS-DSSS	1	12	1212	1221	1206	12.5	0	
5	HS-DSSS	1	24	1206	1206	1215			
5	HS-DSSS	12	0	1201	1193	1201	12.5	0	
5	HS-DSSS	12	7	1206	1204	1206			
5	HS-DSSS	12	13	1201	1184	1199			
5	HS-DSSS	25	0	1192	1189	1192			
5	HS-DSSS	1	0	1196	1197	1208			
5	HS-DSSS	1	12	1185	1232	1193	12.5	0	
5	HS-DSSS	1	24	1207	1188	1186			
5	HS-DSSS	12	0	1192	1190	1191			
5	HS-DSSS	12	7	1202	1187	1202	12.5	0	
5	HS-DSSS	12	13	1189	1186	1194			
5	HS-DSSS	25	0	1198	1181	1188			

Band 66 UL CA#ENDC									
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	1263	1272	1262			
20	QPSK	1	49	1254	1262	1261	13.5	0	
20	QPSK	1	99	1243	1243				
20	QPSK	50	0	1245	1271	1241			
20	QPSK	50	24	1248	1249	1250	13.5	0	
20	QPSK	50	50	1235	1235	1231			
20	QPSK	100	0	1237	1245	1236			
20	HS-DSSS	1	0	1232	1242	1236			
20	HS-DSSS	1	49	1250	1248	1245	13.5	0	
20	HS-DSSS	1	99	1238	1217	1238			
20	HS-DSSS	50	0	1238	1249	1238			
20	HS-DSSS	5							



Band 2 (1900MHz Band) UL CAEANDC										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq				
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.30	17.19	17.12	18	0		
20	QPSK	1	49	17.00	17.21	17.10				
20	QPSK	1	99	17.02	17.00	17.05				
20	QPSK	50	0	16.81	17.12	16.87	18	0		
20	QPSK	50	24	17.11	16.94	16.95				
20	QPSK	50	50	16.86	16.93	17.00				
20	QPSK	100	0	16.89	16.82	16.94				
20	16QAM	1	0	17.30	17.19	17.23	18	0		
20	16QAM	1	49	17.20	17.26	17.28				
20	16QAM	1	99	17.16	17.09	17.16				
20	16QAM	50	0	16.79	16.89	16.86	18	0		
20	16QAM	50	24	16.94	16.97	17.01				
20	16QAM	50	50	16.89	17.00	17.02				
20	16QAM	100	0	16.89	16.88	16.85				
20	64QAM	1	0	16.98	17.23	17.26	18	0		
20	64QAM	1	49	17.11	17.24	17.23				
20	64QAM	1	99	17.05	17.27	17.22				
20	64QAM	50	0	16.84	16.91	16.85	18	0		
20	64QAM	50	24	16.95	16.95	16.99				
20	64QAM	50	50	16.89	16.97	16.99				
20	64QAM	100	0	16.87	16.90	16.89				
Channel										
Frequency (MHz)										
15	QPSK	1	0	16.72	16.94	16.92	18	0		
15	QPSK	1	37	16.82	16.86	16.90				
15	QPSK	1	74	16.67	16.88	16.88				
15	QPSK	36	0	16.78	16.87	16.89	18	0		
15	QPSK	36	20	16.95	16.96	17.03				
15	QPSK	36	39	16.89	16.96	17.01				
15	QPSK	75	0	16.90	16.88	16.97				
15	16QAM	1	0	17.06	17.21	17.24	18	0		
15	16QAM	1	37	17.25	17.26	17.28				
15	16QAM	1	74	16.99	17.34	17.26				
15	16QAM	36	0	16.85	16.89	16.87	18	0		
15	16QAM	36	20	16.94	16.95	17.04				
15	16QAM	36	39	16.97	17.00	17.03				
15	16QAM	75	0	16.92	16.90	16.99				
15	64QAM	1	0	16.99	17.21	17.24	18	0		
15	64QAM	1	37	17.15	17.18	17.08				
15	64QAM	1	74	17.01	17.22	17.20				
15	64QAM	36	0	16.86	16.91	16.91	18	0		
15	64QAM	36	20	16.90	16.95	17.07				
15	64QAM	36	39	16.94	17.02	17.02				
15	64QAM	75	0	16.89	16.92	16.92				
Channel										
Frequency (MHz)										
10	QPSK	1	0	16.58	16.81	17.01	18	0		
10	QPSK	1	25	16.87	16.98	16.96				
10	QPSK	1	49	16.59	16.62	16.88				
10	QPSK	25	0	16.86	16.85	16.90	18	0		
10	QPSK	25	12	16.95	16.99	17.00				
10	QPSK	25	25	16.83	16.83	16.95				
10	QPSK	50	0	16.85	16.90	16.90				
10	16QAM	1	0	16.87	16.94	17.00	18	0		
10	16QAM	1	25	17.29	17.00	17.33				
10	16QAM	1	49	16.91	16.93	17.26				
10	16QAM	25	0	16.92	16.92	16.93	18	0		
10	16QAM	25	12	17.00	17.00	17.04				
10	16QAM	25	25	16.83	16.94	16.94				
10	16QAM	50	0	16.89	16.96	16.95				
10	64QAM	1	0	16.88	16.98	17.00	18	0		
10	64QAM	1	25	17.00	17.00	17.00				
10	64QAM	1	49	17.11	17.17	17.00				
10	64QAM	25	0	16.96	16.92	16.89	18	0		
10	64QAM	25	12	17.00	17.01	17.00				
10	64QAM	25	25	16.83	16.92	16.99				
10	64QAM	50	0	16.84	16.90	16.89				
Channel										
Frequency (MHz)										
5	QPSK	1	0	16.52	16.80	16.97	18	0		
5	QPSK	1	12	16.89	16.99	17.00				
5	QPSK	1	24	16.75	16.86	16.92				
5	QPSK	12	0	17.00	17.03	17.09	18	0		
5	QPSK	12	7	16.99	17.08	17.11				
5	QPSK	12	13	16.91	16.98	17.03				
5	QPSK	25	0	16.91	16.96	16.96	18	0		
5	16QAM	1	0	17.21	17.20	17.31				
5	16QAM	1	12	17.13	17.23	17.31				
5	16QAM	1	24	17.06	17.08	17.18	18	0		
5	16QAM	12	0	17.04	17.08	17.16				
5	16QAM	12	7	17.04	17.10	17.15				
5	16QAM	12	13	16.93	17.03	17.03	18	0		
5	16QAM	25	0	16.98	17.01	17.07				
5	64QAM	1	0	17.07	17.17	17.08				
5	64QAM	1	12	17.22	17.26	17.25	18	0		
5	64QAM	1	24	16.96	17.05	17.18				
5	64QAM	12	0	17.05	17.05	17.08	18	0		
5	64QAM	12	7	16.98	17.05	17.11				
5	64QAM	12	13	16.91	16.98	17.00				
5	64QAM	25	0	16.97	17.06	17.06	18	0		
5	64QAM	25	0	16.85	16.90	16.95				
Channel										
Frequency (MHz)										
3	QPSK	1	0	16.86	16.92	16.99	18	0		
3	QPSK	1	8	16.92	17.02	16.97				
3	QPSK	1	14	16.77	16.88	16.93				
3	QPSK	8	0	16.96	16.98	17.10	18	0		
3	QPSK	8	4	16.97	17.06	17.10				
3	QPSK	8	7	16.95	17.00	17.03				
3	QPSK	15	0	16.94	16.99	17.04	18	0		
3	16QAM	1	0	17.20	17.18	17.00				
3	16QAM	1	8	17.30	17.10	17.35				
3	16QAM	1	14	17.04	17.26	17.30	18	0		
3	16QAM	8	0	17.08	17.12	17.09				
3	16QAM	8	4	17.08	17.11	17.14				
3	16QAM	8	7	16.96	17.04	17.09	18	0		
3	16QAM	15	0	17.02	17.05	17.13				
3	64QAM	1	0	17.11	17.12	17.25				
3	64QAM	1	8	17.18	17.29	17.31	18	0		
3	64QAM	1	14	16.98	17.12	17.07				
3	64QAM	8	0	17.01	17.04	17.15				
3	64QAM	8	4	17.01	17.13	17.07	18	0		
3	64QAM	8	7	16.95	17.07	17.06				
3	64QAM	15	0	16.97	17.02	17.07				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	16.83	16.86	16.86	18	0		
1.4	QPSK	1	3	16.84	16.95	16.93				
1.4	QPSK	1	5	16.77	16.84	16.82				
1.4	QPSK	3	0	16.85	16.90	16.91	18	0		
1.4	QPSK	3	1	16.86	16.97	16.91				
1.4	QPSK	3	1	16.79	16.86	16.86				
1.4	QPSK	6	0	16.91	17.01	16.95	18	0		
1.4	16QAM	1	0	17.22	17.20	17.17				
1.4	16QAM	1	3	17.14	17.19	17.31				
1.4	16QAM	1	5	17.22	17.13	17.08	18	0		
1.4	16QAM	3	0	16.89	17.01	17.04				
1.4	16QAM	3	1	16.98	17.06	16.98				
1.4	16QAM	3	3	16.92	16.99	16.92	18	0		
1.4	16QAM	6	0	16.99	17.11	17.19				
1.4	64QAM	1	0	17.00	17.27	17.22				
1.4	64QAM	1	3	16.99	17.17	17.28	18	0		
1.4	64QAM	1	5	16.91	17.11	17.06				
1.4	64QAM	3	0	17.02	17.08	17.03				
1.4	64QAM	3	1	17.00	17.05	17.05	18	0		
1.4	64QAM	3	1	16.86	17.04	17.03				
1.4	64QAM	6	0	16.89	17.03	17.00				

LAT Reduced Power Mode for Handheld On-ENDC&UL CA										
Band 4 (AWS Band) ENDC										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq				
Channel										
Frequency (MHz)										
20	QPSK	1	0	15.72	17.23	17.43	17	0		
20	QPSK	1	49	16.15	16.20	15.96			</	



Band 12 (700MHz Low Band) UL CA&ENDC										
Part 27F(only on channel required)										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)		
Channel				23060	23095	23130				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.87	22.89	22.44	23	0		
10	QPSK	1	25	22.95	22.44	22.45				
10	QPSK	1	49	22.97	22.47	22.31				
10	QPSK	25	0	22.99	22.62	22.47	23	0		
10	QPSK	25	12	22.45	22.50	22.59				
10	QPSK	25	25	22.31	22.61	22.45				
10	QPSK	50	0	22.47	22.51	22.48	23	0		
10	16QAM	1	0	22.99	22.43	22.28				
10	16QAM	1	25	22.47	22.31	22.50				
10	16QAM	1	49	22.80	22.61	22.45	22	1		
10	16QAM	25	0	21.46	21.33	21.34				
10	16QAM	25	12	21.48	21.38	21.32				
10	16QAM	25	25	21.37	21.42	21.25	22	1		
10	16QAM	50	0	21.40	21.23	21.26				
10	84QAM	1	0	21.37	21.31	21.19				
10	84QAM	1	25	21.22	21.24	21.13	22	1		
10	84QAM	1	49	21.28	21.17	21.12				
10	84QAM	25	0	20.51	20.48	20.34				
10	84QAM	25	12	20.54	20.51	20.45	21	2		
10	84QAM	25	25	20.54	20.47	20.39				
10	84QAM	50	0	20.50	20.37	20.31				
Channel				23095	23095	23105	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				7015	7015	7115				
5	QPSK	1	0	22.80	22.43	22.28	23	0		
5	QPSK	1	12	22.57	22.58	22.37				
5	QPSK	1	24	22.54	22.41	22.31				
5	QPSK	12	0	22.37	22.58	22.40	23	0		
5	QPSK	12	7	22.58	22.37	22.44				
5	QPSK	12	13	22.44	22.56	22.45				
5	QPSK	25	0	22.45	22.55	22.38	23	0		
5	16QAM	1	0	22.39	22.54	22.84				
5	16QAM	1	12	22.64	22.57	22.58				
5	16QAM	1	24	22.41	22.31	22.57	22	1		
5	16QAM	12	0	21.45	21.40	21.20				
5	16QAM	12	7	21.53	21.42	21.30				
5	16QAM	12	13	21.47	21.42	21.22	22	1		
5	16QAM	25	0	21.46	21.38	21.19				
5	84QAM	1	0	21.85	21.43	21.24				
5	84QAM	1	12	21.54	21.54	21.29	22	1		
5	84QAM	1	24	21.44	21.46	21.19				
5	84QAM	12	0	20.57	20.37	20.31				
5	84QAM	12	7	20.61	20.54	20.31	21	2		
5	84QAM	12	13	20.53	20.49	20.31				
5	84QAM	25	0	20.59	20.43	20.32				
Channel				23095	23095	23105	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				7005	7015	7115				
3	QPSK	1	0	22.62	22.40	22.41	23	0		
3	QPSK	1	8	22.30	22.60	22.37				
3	QPSK	1	14	22.64	22.63	22.30				
3	QPSK	8	0	22.37	22.50	22.45	23	0		
3	QPSK	8	4	22.30	22.65	22.43				
3	QPSK	8	7	22.38	22.61	22.54				
3	QPSK	15	0	22.86	22.56	22.37	23	0		
3	16QAM	1	0	22.65	22.31	22.30				
3	16QAM	1	8	22.37	22.50	22.45				
3	16QAM	1	14	22.63	22.37	22.30	22	1		
3	16QAM	8	0	21.54	21.40	21.26				
3	16QAM	8	4	21.54	21.52	21.29				
3	16QAM	8	7	21.55	21.42	21.31	22	1		
3	16QAM	15	0	21.49	21.43	21.24				
3	84QAM	1	0	21.49	21.43	21.25				
3	84QAM	1	8	21.80	21.51	21.41	22	1		
3	84QAM	1	14	21.49	21.44	21.18				
3	84QAM	8	0	20.55	20.50	20.64				
3	84QAM	8	4	20.33	20.21	20.40	21	2		
3	84QAM	8	7	20.58	20.51	20.30				
3	84QAM	15	0	20.59	20.53	20.32				
Channel				23017	23095	23113	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				6997	7015	7115				
1.4	QPSK	1	0	22.49	22.43	22.25	23	0		
1.4	QPSK	1	3	22.58	22.42	22.30				
1.4	QPSK	1	5	22.52	22.41	22.18				
1.4	QPSK	3	0	22.48	22.47	22.26	23	0		
1.4	QPSK	3	1	22.56	22.47	22.34				
1.4	QPSK	3	3	22.55	22.47	22.23				
1.4	QPSK	6	0	22.88	22.54	22.31	23	0		
1.4	16QAM	1	0	22.52	22.41	22.18				
1.4	16QAM	1	3	22.48	22.47	22.26				
1.4	16QAM	1	5	22.47	22.28	22.34	23	0		
1.4	16QAM	3	0	22.47	22.34	22.39				
1.4	16QAM	3	1	22.47	22.23	22.37				
1.4	QPSK	3	3	22.54	22.31	22.33	22	1		
1.4	16QAM	6	0	21.39	21.30	21.13				
1.4	84QAM	1	0	21.34	21.28	21.11				
1.4	84QAM	1	3	21.37	21.24	21.11	22	1		
1.4	84QAM	1	5	21.36	21.50	21.34				
1.4	84QAM	3	0	21.26	21.47	21.32				
1.4	84QAM	3	1	21.22	21.41	21.22	21	2		
1.4	84QAM	3	3	21.37	21.20	21.46				
1.4	84QAM	6	0	20.51	20.41	20.20				

Band 30 ENDC										
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				27710	27710	27710				
Channel										
Frequency (MHz)										
10	QPSK	1	0	17.45	17.45	17.45	18	0		
10	QPSK	1	25	17.56	17.56	17.56				
10	QPSK	1	49	17.58	17.58	17.58				
10	QPSK	25	0	17.58	17.58	17.58	18	0		
10	QPSK	25	12	17.26	17.26	17.26				
10	QPSK	25	25	17.30	17.30	17.30				
10	QPSK	50	0	17.25	17.25	17.25	18	0		
10	16QAM	1	0	17.45	17.45	17.45				
10	16QAM	1	25	17.57	17.57	17.57				
10	16QAM	1	49	17.48	17.48	17.48	18	0		
10	16QAM	25	0	17.13	17.13	17.13				
10	16QAM	25	12	17.25	17.25	17.25				
10	16QAM	25	25	17.26	17.26	17.26	18	0		
10	16QAM	50	0	17.23	17.23	17.23				
10	84QAM	1	0	17.45	17.45	17.45				
10	84QAM	1	25	17.51	17.51	17.51	18	0		
10	84QAM	1	49	17.58	17.58	17.58				
10	84QAM	25	0	17.17	17.17	17.17				
10	84QAM	25	12	17.28	17.28	17.28	18	0		
10	84QAM	25	25	17.40	17.40	17.40				
10	84QAM	50	0	17.29	17.29	17.29				
Channel				27686	27710	27735	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				29075	2910	2912.6				
5	QPSK	1	0	17.19	17.22	17.12	18	0		
5	QPSK	1	12	17.36	17.15	17.18				
5	QPSK	1	24	17.15	17.11	17.21				
5	QPSK	12	0	17.33	17.29	17.30	18	0		
5	QPSK	12	7	17.39	17.36	17.43				
5	QPSK	12	13	17.36	17.30	17.31				
5	QPSK	25	0	17.38	17.32	17.38	18	0		
5	16QAM	1	0	17.72	17.59	17.68				
5	16QAM	1	12	17.57	17.50	17.28				
5	16QAM	1	24	17.73	17.40	17.40	18	0		
5	16QAM	12	0	17.37	17.26	17.36				
5	16QAM	12	7	17.44	17.36	17.36				
5	16QAM	12	13	17.40	17.46	17.32	18	0		
5	16QAM	25	0	17.29	17.37	17.32				
5	84QAM	1	0	17.40	17.43	17.14				
5	84QAM	1	12	17.45	17.40	17.26	18	0		
5	84QAM	1	24	17.39	17.12	17.11				
5	84QAM	12	0	17.41	17.32	17.25				
5	84QAM	12	7	17.38	17.41	17.34	18	0		
5	84QAM	12	13	17.22	17.28	17.33				
5	84QAM	25	0	17.36	17.36	17.38				

Band 66 UL CA&ENDC										
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				13						



UAT Full Power Mode

n2 (only SCS15KHz has 5M BW)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)	
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.			
Channel				372000	376000	380000			
Frequency (MHz)				1860	1860	1860			
20	PI2 BPSK	1	1	23.15	23.30	23.21			
20	PI2 BPSK	1	53	23.12	23.18	23.17	24.0	0.0	
20	PI2 BPSK	1	104	23.15	23.12	23.11			
20	PI2 BPSK	50	0	22.78	22.80	22.83	23.5	0.0	
20	PI2 BPSK	50	28	23.10	23.25	23.21	24.0		
20	PI2 BPSK	50	56	22.88	22.82	22.85	23.5		
20	PI2 BPSK	100	0	22.81	22.74	22.71	23.5	0.5	
20	QPSK	1	1	23.15	23.33	23.15			
20	QPSK	1	53	23.17	23.23	23.21	24.0	0.0	
20	QPSK	1	104	23.15	23.27	23.26			
20	QPSK	50	0	22.14	22.20	22.08	23.5		
20	QPSK	50	28	23.12	23.22	23.21	24.0	0.0	
20	QPSK	50	56	22.17	22.34	22.14	23.5		
20	QPSK	100	0	22.21	22.31	22.25	23.0	1.0	
20	16QAM	1	1	22.15	22.25	22.17	23.0	1.0	
20	16QAM	1	1	20.78	20.80	20.69	21.5	2.5	
20	256QAM	1	1	18.88	18.92	18.95	19.5	4.5	
Channel				371500	376000	380500			
Frequency (MHz)				1857.5	1860	1862.5			
15	QPSK	1	1	23.21	23.32	23.25	24.0	0.0	
Channel				371000	376000	381000			
Frequency (MHz)				1865	1860	1860			
10	QPSK	1	1	23.19	23.12	23.14	24.0	0.0	
Channel				370500	376000	381500			
Frequency (MHz)				1852.5	1860	1867.5			
5	QPSK	1	1	23.19	23.21	23.18	24.0	0.0	

n5 (only SCS15KHz has 5M BW)									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)	
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.			
Channel				166300	167300	167300			
Frequency (MHz)				831.5	831.5	831.5			
20	PI2 BPSK	1	1	23.21	23.05	23.31			
20	PI2 BPSK	1	53	23.15	23.21	23.19	24.0	0.0	
20	PI2 BPSK	1	104	23.05	23.07	23.01			
20	PI2 BPSK	50	0	22.61	22.66	22.63	23.5	0.0	
20	PI2 BPSK	50	28	23.10	23.15	23.05	24.0		
20	PI2 BPSK	50	56	22.63	22.65	22.61	23.5		
20	PI2 BPSK	100	0	22.43	22.56	22.51	23.5	0.5	
20	QPSK	1	1	23.12	23.33	23.04			
20	QPSK	1	53	23.05	23.04	23.01	24.0	0.0	
20	QPSK	1	104	23.10	23.05	23.05			
20	QPSK	50	0	22.21	22.19	22.12	23.5		
20	QPSK	50	28	23.05	23.18	23.15	24.0	0.0	
20	QPSK	50	56	22.03	21.98	22.01	23.5		
20	QPSK	100	0	22.12	22.09	22.13	23.0	1.0	
20	16QAM	1	1	22.25	22.34	22.31	23.0	1.0	
20	16QAM	1	1	20.58	20.60	20.49	21.5	2.5	
20	256QAM	1	1	18.61	18.67	18.72	19.5	4.5	
Channel				166300	167300	168300			
Frequency (MHz)				831.5	831.5	831.5			
15	QPSK	1	1	23.21	23.21	23.19	24.0	0.0	
Channel				166300	167300	168300			
Frequency (MHz)				831.5	831.5	831.5			
10	QPSK	1	1	23.14	23.15	23.14	24.0	0.0	
Channel				166300	167300	168300			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.05	23.09	23.12	24.0	0.0	

n25									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Tune-up limit (dBm)	MPR (dB)	
				Ch. / Freq.	Ch. / Freq.	Ch. / Freq.			
Channel				372000	376000	381000			
Frequency (MHz)				1860	1862.5	1865			
20	PI2 BPSK	1	1	23.01	23.05	23.12			
20	PI2 BPSK	1	53	23.11	23.14	23.21	24.0	0.0	
20	PI2 BPSK	1	104	23.05	23.12	23.25			
20	PI2 BPSK	50	0	22.71	22.80	22.65	23.5	0.0	
20	PI2 BPSK	50	28	23.28	23.24	23.22	24.0		
20	PI2 BPSK	50	56	22.68	22.70	22.75	23.5		
20	PI2 BPSK	100	0	22.63	22.72	22.63	23.5	0.5	
20	QPSK	1	1	23.17	23.36	23.09			
20	QPSK	1	53	23.21	23.20	23.12	24.0	0.0	
20	QPSK	1	104	23.00	23.16	23.08			
20	QPSK	50	0	22.14	22.28	22.15	23.5		
20	QPSK	50	28	23.17	23.18	23.13	24.0	0.0	
20	QPSK	50	56	22.16	22.21	22.14	23.5		
20	QPSK	100	0	22.14	22.21	22.16	23.0	1.0	
20	16QAM	1	1	22.35	22.47	22.23	23.0	1.0	
20	16QAM	1	1	20.56	20.60	20.51	21.5	2.5	
20	256QAM	1	1	18.66	18.71	18.63	19.5	4.5	
Channel				371500	376500	381500			
Frequency (MHz)				1857.5	1862.5	1867.5			
15	QPSK	1	1	23.01	23.21	23.14	24.0	0.0	
Channel				371000	376500	382500			
Frequency (MHz)				1865	1862.5	1860			
10	QPSK	1	1	23.09	23.25	23.15	24.0	0.0	
Channel				370500	376500	382500			
Frequency (MHz)				1852.5	1862.5	1912.5			
5	QPSK	1	1	23.12	23.11	23.07	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)				1720	1745	1770			
20	PI/2 BPSK	1	1	23.21	23.19	23.18			
20	PI/2 BPSK	1	53	23.14	23.04	23.09	24.0	0.0	
20	PI/2 BPSK	1	104	23.25	23.23	23.31			
20	PI/2 BPSK	50	0	22.75	22.72	22.82	23.5	0.0	
20	PI/2 BPSK	50	28	23.16	23.21	23.09	24.0		
20	PI/2 BPSK	50	56	22.89	22.95	22.77	23.5		
20	PI/2 BPSK	100	0	22.68	22.70	22.82	23.5	0.5	
20	QPSK	1	1	23.18	23.36	23.14			
20	QPSK	1	53	23.11	23.07	23.01	24.0	0.0	
20	QPSK	1	104	23.21	23.31	23.21			
20	QPSK	50	0	22.14	22.16	22.13	23.5		
20	QPSK	50	28	23.07	23.10	22.97	24.0	0.0	
20	QPSK	50	56	22.15	22.12	22.10	23.5		
20	QPSK	100	0	22.15	22.17	22.15	23.0	1.0	
20	16QAM	1	1	22.09	22.05	22.01	23.0	1.0	
20	64QAM	1	1	20.83	20.72	20.89	21.5	2.5	
20	256QAM	1	1	18.81	18.78	18.83	19.5	4.5	
Channel				345000	349000	354000			
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	23.18	23.24	23.14	24.0	0.0	
Channel				345000	349000	355000			
Frequency (MHz)				1718	1745	1775			
10	QPSK	1	1	23.12	23.21	23.21	24.0	0.0	
Channel				345000	349000	355000			
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	23.08	23.18	23.05	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)				670	680.5	688			
20	PI/2 BPSK	1	1	23.02	23.08	23.12			
20	PI/2 BPSK	1	53	23.07	23.03	23.05	24.0	0.0	
20	PI/2 BPSK	1	104	22.85	22.87	22.88			
20	PI/2 BPSK	50	0	22.58	22.61	22.52	23.5	0.0	
20	PI/2 BPSK	50	28	23.03	23.04	23.12	24.0		
20	PI/2 BPSK	50	56	22.61	22.60	22.53	23.5		
20	PI/2 BPSK	100	0	22.52	22.58	22.47	23.5	0.5	
20	QPSK	1	1	23.01	23.13	22.83			
20	QPSK	1	53	22.79	22.87	22.71	24.0	0.0	
20	QPSK	1	104	22.67	22.86	22.66			
20	QPSK	50	0	22.21	22.07	22.01	23.5		
20	QPSK	50	28	22.69	22.80	22.72	24.0	0.0	
20	QPSK	50	56	21.85	21.97	21.88	23.5		
20	QPSK	100	0	21.72	21.78	21.63	23.0	1.0	
20	16QAM	1	1	21.63	21.72	21.61	23.0	1.0	
20	64QAM	1	1	20.78	20.84	20.71	21.5	2.5	
20	256QAM	1	1	18.65	18.62	18.63	19.5	4.5	
Channel				134100	136100	138100			
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	1	23.06	23.07	23.11	24.0	0.0	
Channel				134000	136100	138600			
Frequency (MHz)				668	680.5	693			
10	QPSK	1	1	23.04	23.01	23.05	24.0	0.0	
Channel				133100	136100	139100			
Frequency (MHz)				665.5	680.5	695.5			
5	QPSK	1	1	22.91	22.96	22.88	24.0	0.0	



LAT 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				37000	37600	38000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1860	1880	1900			
20	PI2 BPSK	1	1	22.61	22.50	22.53			
20	PI2 BPSK	1	53	23.00	22.97	22.85	24.0	0.0	
20	PI2 BPSK	1	104	22.81	22.59	22.47			
20	PI2 BPSK	50	0	22.28	22.34	22.18	23.5		
20	PI2 BPSK	50	28	22.61	22.59	22.45	24.0	0.0	
20	PI2 BPSK	50	56	22.41	22.34	22.36	23.5		
20	PI2 BPSK	100	0	22.31	22.24	22.19	23.5	0.5	
20	QPSK	1	1	22.58	22.67	22.77			
20	QPSK	1	53	22.79	23.05	22.83	24.0	0.0	
20	QPSK	1	104	22.51	22.63	22.41			
20	QPSK	50	0	21.61	21.77	21.59	23.5		
20	QPSK	50	28	22.42	22.57	22.39	24.0	0.0	
20	QPSK	50	56	21.75	21.84	21.69	23.5		
20	QPSK	100	0	21.63	21.76	21.52	23.0	1.0	
20	16QAM	1	1	21.81	21.78	21.73	23.0	1.0	
20	64QAM	1	1	20.43	20.46	20.31	21.5	2.5	
20	256QAM	1	1	18.82	18.56	18.47	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1827.5	1880	1927.5			
15	QPSK	1	1	22.30	22.55	22.72	24.0	0.0	
Channel				371500	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1885	1880	1905			
10	QPSK	1	1	22.83	22.78	22.67	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1822.5	1880	1927.5			
5	QPSK	1	1	22.72	22.53	22.61	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				166000	167000	167000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				834	836.5	839			
20	PI2 BPSK	1	1	23.78	23.85	23.68			
20	PI2 BPSK	1	53	23.88	23.95	23.84	24.0	0.0	
20	PI2 BPSK	1	104	23.65	23.62	23.63			
20	PI2 BPSK	50	0	23.42	23.45	23.28	23.5		
20	PI2 BPSK	50	28	23.71	23.87	23.78	24.0	0.0	
20	PI2 BPSK	50	56	23.15	23.37	23.25	23.5		
20	PI2 BPSK	100	0	23.24	23.34	23.41	23.5	0.5	
20	QPSK	1	1	23.61	23.96	23.78			
20	QPSK	1	53	23.79	23.97	23.85	24.0	0.0	
20	QPSK	1	104	23.66	23.75	23.67			
20	QPSK	50	0	22.81	22.91	22.83	23.5		
20	QPSK	50	28	23.75	23.81	23.69	24.0	0.0	
20	QPSK	50	56	22.75	22.85	22.86	23.5		
20	QPSK	100	0	22.83	22.91	22.72	23.0	1.0	
20	16QAM	1	1	23.05	23.12	23.04	23.0	1.0	
20	64QAM	1	1	21.13	21.23	21.36	21.5	2.5	
20	256QAM	1	1	19.25	19.30	19.42	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5			
15	QPSK	1	1	23.52	23.78	23.70	24.0	0.0	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	QPSK	1	1	23.63	23.85	23.84	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	1	23.61	23.77	23.73	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				346000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	PI2 BPSK	1	1	22.91	22.97	22.87			
20	PI2 BPSK	1	53	22.73	22.87	22.72	24.0	0.0	
20	PI2 BPSK	1	104	22.88	22.85	22.83			
20	PI2 BPSK	50	0	22.55	22.61	22.56	23.5		
20	PI2 BPSK	50	28	22.72	22.83	22.81	24.0	0.0	
20	PI2 BPSK	50	56	22.52	22.54	22.63	23.5		
20	PI2 BPSK	100	0	22.47	22.54	22.51	23.5	0.5	
20	QPSK	1	1	22.83	23.08	22.89			
20	QPSK	1	53	22.88	23.07	23.01	24.0	0.0	
20	QPSK	1	104	22.76	22.97	22.88			
20	QPSK	50	0	22.05	22.13	22.15	23.5		
20	QPSK	50	28	22.78	22.90	22.87	24.0	0.0	
20	QPSK	50	56	22.12	22.08	22.03	23.5		
20	QPSK	100	0	22.21	22.25	22.14	23.0	1.0	
20	16QAM	1	1	22.28	22.41	22.37	23.0	1.0	
20	64QAM	1	1	20.49	20.64	20.52	21.5	2.5	
20	256QAM	1	1	18.52	18.75	18.69	19.5	4.5	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	22.79	22.85	23.03	24.0	0.0	
Channel				353500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	22.85	22.97	22.83	24.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	22.81	23.03	22.85	24.0	0.0	



n41 for FCC									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)	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			Channel				509202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640			Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	22.49	23.40	23.77			100	PI/2 BPSK	1	1	26.22	26.12	26.11		
100	PI/2 BPSK	1	137	23.43	23.57	23.45	24.0	0.0	100	PI/2 BPSK	1	137	26.08	26.25	26.05	27.0	0.0
100	PI/2 BPSK	1	271	23.59	23.66	23.65			100	PI/2 BPSK	1	271	25.55	26.20	26.09		
100	PI/2 BPSK	135	0	22.16	22.58	23.53	23.5	0.0	100	PI/2 BPSK	135	0	25.49	25.83	25.62	26.5	0.0
100	PI/2 BPSK	135	69	23.31	23.42	23.62	24.0		100	PI/2 BPSK	135	69	26.18	26.22	26.20	27.0	
100	PI/2 BPSK	135	138	22.39	22.55	22.72	23.5		100	PI/2 BPSK	135	138	25.39	25.63	25.63	26.5	
100	PI/2 BPSK	270	0	22.64	22.67	23.75	23.5	0.5	100	PI/2 BPSK	270	0	25.60	25.62	25.55	26.5	0.5
100	QPSK	1	1	23.72	23.94	23.80			100	QPSK	1	1	26.27	26.22	26.25		
100	QPSK	1	137	23.84	23.90	23.46	24.0	0.0	100	QPSK	1	137	26.47	26.59	26.38	27.0	0.0
100	QPSK	1	271	23.58	23.56	23.67			100	QPSK	1	271	26.58	26.50	26.13		
100	QPSK	135	0	22.51	22.53	22.46	23.5		100	QPSK	135	0	26.17	26.11	26.11	26.5	
100	QPSK	135	69	23.59	23.93	23.75	24.0	0.0	100	QPSK	135	69	26.30	26.47	26.43	27.0	0.0
100	QPSK	135	138	22.50	22.65	22.72	23.5		100	QPSK	135	138	26.02	26.34	26.39	26.5	
100	QPSK	270	0	22.17	22.48	22.12	23.0	1.0	100	QPSK	270	0	25.06	25.15	25.10	26.0	1.0
100	16QAM	1	1	22.59	22.14	22.78	23.0	1.0	100	16QAM	1	1	25.49	25.55	24.78	26.0	1.0
100	84QAM	1	1	20.25	19.93	20.46	21.5	2.5	100	84QAM	1	1	22.77	23.73	23.15	24.5	2.5
100	256QAM	1	1	19.15	18.90	19.38	19.5	4.5	100	256QAM	1	1	21.44	22.02	21.75	22.5	4.5
Channel				506200	518598	528998	Tune-up limit (dBm)	MPR (dB)	Channel				506200	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0	Frequency (MHz)				2541	2592.99	2644.98	24.0	0.0
90	QPSK	1	1	23.58	23.49	23.91	24.0	0.0	90	QPSK	1	137	26.42	26.41	26.42	27.0	0.0
Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)	Channel				507204	518598	529998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0	Frequency (MHz)				2536.02	2592.99	2649.99	24.0	0.0
80	QPSK	1	1	23.65	23.43	23.80	24.0	0.0	80	QPSK	1	137	26.43	26.33	26.48	27.0	0.0
Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)	Channel				505200	518598	531996	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2659.98	24.0	0.0	Frequency (MHz)				2526	2592.99	2659.98	24.0	0.0
60	QPSK	1	1	23.56	23.34	23.75	24.0	0.0	60	QPSK	1	137	26.30	26.25	26.41	27.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)	Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0	Frequency (MHz)				2521.02	2592.99	2664.99	24.0	0.0
50	QPSK	1	1	23.47	23.29	23.67	24.0	0.0	50	QPSK	1	137	26.22	26.19	26.48	27.0	0.0
Channel				503202	518598	534002	Tune-up limit (dBm)	MPR (dB)	Channel				503202	518598	534002	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0	Frequency (MHz)				2516.01	2592.99	2670	24.0	0.0
40	QPSK	1	1	23.31	23.25	22.95	24.0	0.0	40	QPSK	1	137	26.21	26.29	26.42	27.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)	Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0	Frequency (MHz)				2506.02	2592.99	2679.99	24.0	0.0
20	QPSK	1	1	22.87	22.94	22.90	24.0	0.0	20	QPSK	1	137	26.26	26.38	26.40	27.0	0.0



For LAT

n2 Sensor on									
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	PI2 BPSK	1	1	15.64	15.70	15.67			
20	PI2 BPSK	1	53	15.51	15.68	15.88	16.5	0.0	
20	PI2 BPSK	1	104	15.44	15.49	15.35			
20	PI2 BPSK	50	0	15.56	15.58	15.55			
20	PI2 BPSK	50	28	15.57	15.56	15.46	16.5	0.0	
20	PI2 BPSK	50	56	15.48	15.52	15.49			
20	PI2 BPSK	100	0	15.56	15.56	15.49	16.5	0.0	
20	QPSK	1	1	15.61	15.74	15.60			
20	QPSK	1	53	15.64	15.51	15.57	16.5	0.0	
20	QPSK	1	104	15.53	15.45	15.30			
20	QPSK	50	0	15.50	15.61	15.47			
20	QPSK	50	28	15.52	15.65	15.37	18.5	0.0	
20	QPSK	50	56	15.42	15.49	15.43			
20	QPSK	100	0	15.55	15.56	15.38	16.5	0.0	
20	16QAM	1	1	15.52	15.64	15.32	16.5	0.0	
20	16QAM	1	1	15.27	15.55	15.66	16.5	0.0	
20	256QAM	1	1	15.68	15.73	15.80	16.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	53	15.53	15.60	15.62	16.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	53	15.50	15.56	15.83	16.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	53	15.43	15.49	15.47	16.5	0.0	

n2 Hotspot on									
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	PI2 BPSK	1	1	13.39	13.75	13.74			
20	PI2 BPSK	1	53	13.45	13.41	13.64	14.5	0.0	
20	PI2 BPSK	1	104	13.42	13.49	13.45			
20	PI2 BPSK	50	0	13.36	13.55	13.47			
20	PI2 BPSK	50	28	13.56	13.54	13.51	14.5	0.0	
20	PI2 BPSK	50	56	13.54	13.55	13.41			
20	PI2 BPSK	100	0	13.63	13.58	13.59	14.5	0.0	
20	QPSK	1	1	13.54	13.54	13.67			
20	QPSK	1	53	13.56	13.98	13.52	14.5	0.0	
20	QPSK	1	104	13.54	13.51	13.48			
20	QPSK	50	0	13.38	13.55	13.62			
20	QPSK	50	28	13.41	13.85	13.54	14.5	0.0	
20	QPSK	50	56	13.55	13.61	13.41			
20	QPSK	100	0	13.41	13.44	13.35	14.5	0.0	
20	16QAM	1	1	13.42	13.45	13.36	14.5	0.0	
20	16QAM	1	1	13.45	13.56	13.54	14.5	0.0	
20	256QAM	1	1	13.35	13.41	13.44	14.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	53	13.45	13.54	13.55	14.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	53	13.51	13.56	13.41	14.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	53	13.55	13.53	13.30	14.5	0.0	

n2 Handheld on									
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	PI2 BPSK	1	1	18.61	18.73	18.70			
20	PI2 BPSK	1	53	18.71	18.49	19.00	19.5	0.0	
20	PI2 BPSK	1	104	18.30	18.63	18.26			
20	PI2 BPSK	50	0	18.48	18.63	18.80			
20	PI2 BPSK	50	28	18.47	18.66	18.35	19.5	0.0	
20	PI2 BPSK	50	56	18.45	18.55	18.50			
20	PI2 BPSK	100	0	18.49	18.63	18.42	19.5	0.0	
20	QPSK	1	1	18.62	18.58	18.59			
20	QPSK	1	53	18.75	19.03	18.77	19.5	0.0	
20	QPSK	1	104	18.37	18.62	18.56			
20	QPSK	50	0	18.36	18.75	18.44			
20	QPSK	50	28	18.66	19.01	18.65	19.5	0.0	
20	QPSK	50	56	18.36	18.50	18.44			
20	QPSK	100	0	18.38	18.73	18.35	19.5	0.0	
20	16QAM	1	1	18.56	18.45	18.45	19.5	0.0	
20	16QAM	1	1	18.40	18.50	18.69	19.5	0.0	
20	256QAM	1	1	18.45	18.41	18.35	19.5	0.0	
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1882.5	1907.5			
15	QPSK	1	53	18.45	18.55	18.54	19.5	0.0	
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1882.5	1910			
10	QPSK	1	53	18.30	18.55	18.65	19.5	0.0	
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1882.5	1912.5			
5	QPSK	1	53	18.40	18.45	18.41	19.5	0.0	



n5 Sensor onHotspot on									
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)				168500	167300	167800			
				834	836.5	838	Tune-up limit (dBm)	MPR (dB)	
20	PI2 BPSK	1	1	22.43	22.36	22.35			
20	PI2 BPSK	1	53	22.43	22.44	22.45	22.5	0.0	
20	PI2 BPSK	1	104	22.36	22.30	22.30			
20	PI2 BPSK	50	0	22.37	22.33	22.38			
20	PI2 BPSK	50	28	22.43	22.35	22.42	22.5	0.0	
20	PI2 BPSK	50	56	22.22	22.23	22.20			
20	PI2 BPSK	100	0	22.34	22.29	22.32	22.5	0.0	
20	QPSK	1	1	22.43	22.48	22.45			
20	QPSK	1	53	22.36	22.47	22.43	22.5	0.0	
20	QPSK	1	104	22.33	22.30	22.35			
20	QPSK	50	0	22.37	22.32	22.37			
20	QPSK	50	28	22.36	22.38	22.37	22.5	0.0	
20	QPSK	50	56	22.35	22.27	22.12			
20	QPSK	100	0	22.34	22.39	21.94	22.5	0.0	
20	16QAM	1	1	22.47	22.46	21.98	22.5	0.0	
20	16QAM	1	1	21.38	21.28	21.30	21.5	1.0	
20	256QAM	1	1	19.06	19.15	19.14	19.5	3.0	
Channel									
Frequency (MHz)				168300	167900	168300	Tune-up limit (dBm)	MPR (dB)	
				831.5	836.5	841.5			
15	QPSK	1	1	22.28	22.31	22.21	22.5	0.0	
Channel									
Frequency (MHz)				168500	167300	167800	Tune-up limit (dBm)	MPR (dB)	
				830	836.5	844			
10	QPSK	1	1	22.14	22.22	22.27	22.5	0.0	
Channel									
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
				826.5	836.5	846.5			
5	QPSK	1	1	22.09	22.11	22.13	22.5	0.0	

n66 Sensor on									
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)				344000	349000	354000			
				1720	1745	1770	Tune-up limit (dBm)	MPR (dB)	
20	PI2 BPSK	1	1	17.80	17.83	17.90			
20	PI2 BPSK	1	53	17.56	17.79	17.78	19.0	0.0	
20	PI2 BPSK	1	104	17.44	17.81	17.87			
20	PI2 BPSK	50	0	17.80	17.83	17.87			
20	PI2 BPSK	50	28	17.47	17.78	17.86	19.0	0.0	
20	PI2 BPSK	50	56	17.71	17.76	17.75			
20	PI2 BPSK	100	0	17.52	17.73	17.76	19.0	0.0	
20	QPSK	1	1	17.88	17.94	17.86			
20	QPSK	1	53	17.50	17.81	17.84	19.0	0.0	
20	QPSK	1	104	17.28	17.83	17.86			
20	QPSK	50	0	17.41	17.77	17.76			
20	QPSK	50	28	17.25	17.72	17.74	19.0	0.0	
20	QPSK	50	56	17.55	17.86	17.74			
20	QPSK	100	0	17.19	17.69	17.67	19.0	0.0	
20	16QAM	1	1	17.80	17.83	17.94	19.0	0.0	
20	16QAM	1	1	17.67	17.88	17.78	19.0	0.0	
20	256QAM	1	1	17.91	17.93	17.88	19.0	0.0	
Channel									
Frequency (MHz)				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
				1717.5	1745	1772.5			
15	QPSK	1	1	17.63	17.69	17.62	19.0	0.0	
Channel									
Frequency (MHz)				343000	349000	354000	Tune-up limit (dBm)	MPR (dB)	
				1715	1745	1775			
10	QPSK	1	1	17.74	17.78	17.71	19.0	0.0	
Channel									
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
				1712.5	1745	1777.5			
5	QPSK	1	1	17.79	17.82	17.73	19.0	0.0	

n66 Hotspot on									
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)				343000	349000	354000			
				1720	1745	1770	Tune-up limit (dBm)	MPR (dB)	
20	PI2 BPSK	1	1	16.24	16.30	16.34			
20	PI2 BPSK	1	53	16.09	16.26	16.21	17.5	0.0	
20	PI2 BPSK	1	104	16.09	16.14	16.22			
20	PI2 BPSK	50	0	16.41	16.36	16.48			
20	PI2 BPSK	50	28	16.18	16.17	16.57	17.5	0.0	
20	PI2 BPSK	50	56	16.37	16.41	16.41			
20	PI2 BPSK	100	0	16.22	16.22	16.48	17.5	0.0	
20	QPSK	1	1	16.60	16.68	16.58			
20	QPSK	1	53	16.15	16.20	16.29	17.5	0.0	
20	QPSK	1	104	16.05	15.98	16.13			
20	QPSK	50	0	16.33	16.38	16.35			
20	QPSK	50	28	15.94	15.95	16.03	17.5	0.0	
20	QPSK	50	56	16.18	16.25	16.37			
20	QPSK	100	0	15.88	16.20	15.89	17.5	0.0	
20	16QAM	1	1	16.16	16.30	16.32	17.5	0.0	
20	16QAM	1	1	16.10	16.12	16.11	17.5	0.0	
20	256QAM	1	1	16.13	16.21	16.23	17.5	0.0	
Channel									
Frequency (MHz)				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
				1717.5	1745	1772.5			
15	QPSK	1	1	16.11	16.32	16.17	17.5	0.0	
Channel									
Frequency (MHz)				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)	
				1715	1745	1775			
10	QPSK	1	1	16.15	16.21	16.28	17.5	0.0	
Channel									
Frequency (MHz)				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
				1712.5	1745	1777.5			
5	QPSK	1	1	16.25	16.26	16.12	17.5	0.0	



n66 Handheld on								
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				342000	348000	354000		
Frequency (MHz)				1720	1745	1770		
20	PI2 BPSK	1	1	19.80	19.87	19.77	20.5	0.0
20	PI2 BPSK	1	53	19.56	19.55	19.76		
20	PI2 BPSK	1	104	19.44	19.50	19.30		
20	PI2 BPSK	50	0	19.80	19.84	19.76	20.5	0.0
20	PI2 BPSK	50	28	19.47	19.55	19.37		
20	PI2 BPSK	50	56	19.71	19.70	19.66		
20	PI2 BPSK	100	0	19.82	19.87	19.45	20.5	0.0
20	QPSK	1	1	19.88	19.89	19.89	20.5	0.0
20	QPSK	1	53	19.50	19.63	19.38		
20	QPSK	1	104	19.26	19.31	19.12		
20	QPSK	50	0	19.41	19.64	19.27	20.5	0.0
20	QPSK	50	28	19.25	19.27	19.09		
20	QPSK	50	56	19.55	19.63	19.49		
20	QPSK	100	0	19.19	19.20	19.02	20.5	0.0
20	16QAM	1	1	19.82	19.63	19.56	20.5	0.0
20	56QAM	1	1	19.70	19.64	19.61	20.5	0.0
20	256QAM	1	1	19.23	19.25	19.45	19.5	1.0
Channel				343600	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	19.74	19.81	19.79	20.5	0.0
Channel				343600	349000	355500		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	19.77	19.73	19.72	20.5	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1722.5	1745	1777.5		
5	QPSK	1	1	19.65	19.68	19.63	20.5	0.0



n41&n41 HPUE for FCC Sensor on									
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)									
100	PI2 BPSK	1	1	17.13	17.16	17.19	18.0	0.0	
100	PI2 BPSK	1	137	17.42	17.22	17.34			
100	PI2 BPSK	1	271	17.24	17.38	17.29			
100	PI2 BPSK	135	0	17.35	17.39	17.44	18.0	0.0	
100	PI2 BPSK	135	69	17.21	17.31	17.20			
100	PI2 BPSK	135	136	17.42	17.45	17.46			
100	PI2 BPSK	270	0	17.22	17.29	17.22	18.0	0.0	
100	QPSK	1	1	17.35	17.38	17.33	18.0	0.0	
100	QPSK	1	137	17.22	17.24	17.27			
100	QPSK	1	271	17.41	17.57	17.34			
100	QPSK	135	0	17.03	17.36	17.14	18.0	0.0	
100	QPSK	135	69	17.09	17.25	17.10			
100	QPSK	135	136	17.28	17.34	17.38			
100	QPSK	270	0	17.03	17.23	17.04	18.0	0.0	
100	16QAM	1	1	17.45	17.55	17.34	18.0	0.0	
100	64QAM	1	1	17.21	17.29	17.23	18.0	0.0	
100	256QAM	1	1	17.25	17.45	17.34	18.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	2541	2592.99	2644.98	15.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	2536.02	2592.99	2649.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.19	15.31	15.25	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	2536.02	2592.99	2650.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.25	15.34	15.26	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	502002	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	2516.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	501204	518998	536998	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	15.25	15.32	15.30	16.0	0.0	

n41&n41 HPUE for FCC Hotspot on									
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)									
100	PI2 BPSK	1	1	15.30	15.46	15.39	16.0	0.0	
100	PI2 BPSK	1	137	15.32	15.45	15.54			
100	PI2 BPSK	1	271	15.40	15.45	15.48			
100	PI2 BPSK	135	0	15.51	15.58	15.54	16.0	0.0	
100	PI2 BPSK	135	69	15.31	15.63	15.40			
100	PI2 BPSK	135	136	15.59	15.31	15.66			
100	PI2 BPSK	270	0	15.35	15.43	15.42	16.0	0.0	
100	QPSK	1	1	15.56	15.68	15.53	16.0	0.0	
100	QPSK	1	137	15.40	15.50	15.47			
100	QPSK	1	271	15.55	15.64	15.54			
100	QPSK	135	0	15.19	15.66	15.34	16.0	0.0	
100	QPSK	135	69	15.23	15.29	15.30			
100	QPSK	135	136	15.42	15.64	15.55			
100	QPSK	270	0	15.16	15.43	15.24	16.0	0.0	
100	16QAM	1	1	15.58	15.42	15.54	16.0	0.0	
100	64QAM	1	1	15.32	15.38	15.26	16.0	0.0	
100	256QAM	1	1	15.29	15.26	15.21	16.0	0.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	508200	518998	528998	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	2541	2592.99	2644.98	16.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	2536.02	2592.99	2649.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.19	15.31	15.25	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	2536.02	2592.99	2650.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.25	15.34	15.26	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	502002	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	2516.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	501204	518998	536998	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	

n41&n41 HPUE for FCC Handheld on									
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)									
100	PI2 BPSK	1	1	19.56	19.65	19.70	20.5	0.0	
100	PI2 BPSK	1	137	19.64	19.74	19.75			
100	PI2 BPSK	1	271	19.68	19.63	19.81			
100	PI2 BPSK	135	0	19.87	19.91	19.91	20.5	0.0	
100	PI2 BPSK	135	69	19.54	19.94	19.59			
100	PI2 BPSK	135	136	19.78	19.56	19.91			
100	PI2 BPSK	270	0	19.56	19.75	19.60	20.5	0.0	
100	QPSK	1	1	19.75	19.98	19.75	20.5	0.0	
100	QPSK	1	137	19.69	19.66	19.61			
100	QPSK	1	271	19.73	19.97	19.71			
100	QPSK	135	0	19.42	19.68	19.65	20.5	0.0	
100	QPSK	135	69	19.54	19.58	19.51			
100	QPSK	135	136	19.67	19.62	19.87			
100	QPSK	270	0	19.51	19.68	19.51	20.5	0.0	
100	16QAM	1	1	19.57	19.63	19.73	20.5	0.0	
100	64QAM	1	1	19.67	19.66	19.48	20.5	0.0	
100	256QAM	1	1	18.64	18.42	18.35	19.5	1.0	
Channel									
Frequency (MHz)									
90	QPSK	1	1	508200	518998	528998	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	2541	2592.99	2644.98	20.5	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	507204	518998	529998	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	2536.02	2592.99	2649.99	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
80	QPSK	1	1	15.19	15.31	15.25	16.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	505200	518998	531998	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
60	QPSK	1	1	2536.02	2592.99	2650.98	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	QPSK	1	1	15.25	15.34	15.26	16.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	502002	518998	534000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	QPSK	1	1	2516.01	2592.99	2670	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	501204	518998	536998	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	1	2506.02	2592.99	2679.99	Tune-up limit (dBm)	MPR (dB)	



For UAT

n2 Receiver on								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 372000	Power Middle Ch. / Freq. 376000	Power High Ch. / Freq. 380000	Tune-up limit (dBm)	MPR (dB)
Channel				1850	1880	1900	Tune-up limit (dBm)	MPR (dB)
20	PI/2 BPSK	1	1	13.66	13.77	13.62		
20	PI/2 BPSK	1	53	13.72	13.78	1.81	14.0	0.0
20	PI/2 BPSK	1	104	13.58	13.76	13.46		
20	PI/2 BPSK	50	0	13.62	13.76	13.56		
20	PI/2 BPSK	50	28	13.55	13.81	13.53	14.0	0.0
20	PI/2 BPSK	50	56	13.52	13.85	13.52		
20	PI/2 BPSK	100	0	13.55	13.74	13.55	14.0	0.0
20	QPSK	1	1	13.63	13.86	13.73		
20	QPSK	1	53	13.73	13.81	13.63	14.0	0.0
20	QPSK	1	104	13.47	13.80	13.45		
20	QPSK	50	0	13.65	13.78	13.47		
20	QPSK	50	28	13.58	13.82	13.48	14.0	0.0
20	QPSK	50	56	13.56	13.81	13.50		
20	QPSK	100	0	13.58	13.79	13.47	14.0	0.0
20	16QAM	1	1	13.73	13.81	13.38	14.0	0.0
20	64QAM	1	1	13.68	13.76	13.58	14.0	0.0
20	256QAM	1	1	13.69	13.85	13.76	14.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	13.83	13.81	13.75	14.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	13.76	13.62	13.65	14.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	13.74	13.68	13.59	14.0	0.0

n2 Sensor on								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 372000	Power Middle Ch. / Freq. 376000	Power High Ch. / Freq. 380000	Tune-up limit (dBm)	MPR (dB)
Channel				1850	1880	1900	Tune-up limit (dBm)	MPR (dB)
20	PI/2 BPSK	1	1	17.14	17.38	17.24		
20	PI/2 BPSK	1	53	17.33	17.42	17.33	17.5	0.0
20	PI/2 BPSK	1	104	17.09	17.28	17.19		
20	PI/2 BPSK	50	0	17.09	17.28	17.04		
20	PI/2 BPSK	50	28	17.12	17.31	17.11	17.5	0.0
20	PI/2 BPSK	50	56	17.04	17.23	17.21		
20	PI/2 BPSK	100	0	17.11	17.09	17.24	17.5	0.0
20	QPSK	1	1	17.21	17.40	17.10		
20	QPSK	1	53	17.22	17.43	17.10	17.5	0.0
20	QPSK	1	104	17.14	17.29	17.13		
20	QPSK	50	0	17.15	17.26	17.05		
20	QPSK	50	28	17.31	17.39	17.23	17.5	0.0
20	QPSK	50	56	17.34	17.24	17.15		
20	QPSK	100	0	17.13	17.32	17.23	17.5	0.0
20	16QAM	1	1	17.19	17.35	17.09	17.5	0.0
20	64QAM	1	1	17.13	17.21	17.06	17.5	0.0
20	256QAM	1	1	17.24	17.39	17.30	17.5	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	53	17.28	17.23	17.26	17.5	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	53	17.25	17.30	17.31	17.5	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	53	17.07	17.21	17.13	17.5	0.0

n2 Hotspot on								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 372000	Power Middle Ch. / Freq. 376000	Power High Ch. / Freq. 380000	Tune-up limit (dBm)	MPR (dB)
Channel				1850	1880	1900	Tune-up limit (dBm)	MPR (dB)
20	PI/2 BPSK	1	1	14.59	14.73	14.58		
20	PI/2 BPSK	1	53	14.72	14.62	14.83	15.0	0.0
20	PI/2 BPSK	1	104	14.52	14.69	14.41		
20	PI/2 BPSK	50	0	14.54	14.77	14.50		
20	PI/2 BPSK	50	28	14.61	14.64	14.42	15.0	0.0
20	PI/2 BPSK	50	56	14.63	14.61	14.47		
20	PI/2 BPSK	100	0	14.70	14.52	14.49	15.0	0.0
20	QPSK	1	1	14.72	14.87	14.62		
20	QPSK	1	53	14.84	14.67	14.58	15.0	0.0
20	QPSK	1	104	14.62	14.55	14.39		
20	QPSK	50	0	14.74	14.53	14.38		
20	QPSK	50	28	14.69	14.76	14.43	15.0	0.0
20	QPSK	50	56	14.71	14.50	14.44		
20	QPSK	100	0	14.67	14.72	14.38	15.0	0.0
20	16QAM	1	1	14.86	14.62	14.33	15.0	0.0
20	64QAM	1	1	14.52	14.71	14.52	15.0	0.0
20	256QAM	1	1	14.69	14.68	14.67	15.0	0.0
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	1	14.57	14.66	14.52	15.0	0.0
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	1	14.57	14.58	14.65	15.0	0.0
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	1	14.61	14.52	14.62	15.0	0.0



n2 Handheld on

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)				1650	1680	1700	Tune-up limit (dBm)	MPR (dB)
20	PI/2 BPSK	1	1	21.05	21.02	20.96	21.5	0.0
20	PI/2 BPSK	1	53	21.21	21.18	21.20		
20	PI/2 BPSK	1	104	20.95	20.97	20.80		
20	PI/2 BPSK	50	0	20.80	20.97	20.90	21.5	0.0
20	PI/2 BPSK	50	28	20.90	21.00	20.87		
20	PI/2 BPSK	50	56	20.87	20.92	20.86		
20	PI/2 BPSK	100	0	20.92	20.99	20.89	21.5	0.0
20	QPSK	1	1	20.79	21.23	21.07		
20	QPSK	1	53	20.81	21.07	20.97		
20	QPSK	1	104	20.82	20.97	20.84	21.5	0.0
20	QPSK	50	0	20.84	20.84	21.02		
20	QPSK	50	28	20.95	21.02	20.95		
20	QPSK	50	56	20.93	20.93	20.93	21.5	0.0
20	QPSK	100	0	20.95	21.01	20.81		
20	16QAM	1	1	21.12	21.07	20.72		
20	64QAM	1	1	21.05	21.04	21.02	21.5	0.0
20	256QAM	1	1	18.60	18.70	18.61		
20	256QAM	1	1	18.60	18.70	18.61		
Channel								
Frequency (MHz)				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.90	21.12	20.10	21.5	0.0
Channel								
Frequency (MHz)				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	19.88	19.99	20.01	21.5	0.0
Channel								
Frequency (MHz)				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	18.99	19.98	19.89	21.5	0.0

n5 Receiver on

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)				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
20	PI/2 BPSK	1	1	20.49	20.58	20.57	21.0	0.0
20	PI/2 BPSK	1	53	20.7	20.69	20.63		
20	PI/2 BPSK	1	104	20.4	20.46	20.46		
20	PI/2 BPSK	50	0	20.48	20.52	20.47	21.0	0.0
20	PI/2 BPSK	50	28	20.42	20.5	20.43		
20	PI/2 BPSK	50	56	20.43	20.42	20.45		
20	PI/2 BPSK	100	0	20.46	20.51	20.48	21.0	0.0
20	QPSK	1	1	20.56	20.85	20.62		
20	QPSK	1	53	20.57	20.7	20.54		
20	QPSK	1	104	20.42	20.45	20.4	21.0	0.0
20	QPSK	50	0	20.55	20.54	20.50		
20	QPSK	50	28	20.48	20.5	20.47		
20	QPSK	50	56	20.40	20.48	20.42	21.0	0.0
20	QPSK	100	0	20.48	20.49	20.38		
20	16QAM	1	1	20.7	20.71	20.68		
20	64QAM	1	1	20.63	20.73	20.65	21.0	0.0
20	256QAM	1	1	19.17	19.13	19.37		
20	256QAM	1	1	19.17	19.13	19.37		
Channel								
Frequency (MHz)				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	20.43	20.47	20.55	21.0	0.0
Channel								
Frequency (MHz)				165900	167300	169300	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	20.44	20.55	20.53	21.0	0.0
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	20.1	20.8	19.87	21.0	0.0

n5 Sensor on&Hotspot on

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)				166800	167300	167800	Tune-up limit (dBm)	MPR (dB)
20	PI/2 BPSK	1	1	22.77	22.87	22.74	23.5	0.0
20	PI/2 BPSK	1	53	22.82	22.89	23.02		
20	PI/2 BPSK	1	104	22.61	22.66	22.47		
20	PI/2 BPSK	50	0	22.63	22.72	22.59	23.5	0.0
20	PI/2 BPSK	50	28	22.71	22.70	22.61		
20	PI/2 BPSK	50	56	22.58	22.62	22.55		
20	PI/2 BPSK	100	0	22.78	22.78	22.71	23.5	0.0
20	QPSK	1	1	23.02	23.03	23.03		
20	QPSK	1	53	22.84	22.89	22.72		
20	QPSK	1	104	22.73	22.86	22.57	23.5	0.0
20	QPSK	50	0	22.21	22.31	22.07		
20	QPSK	50	28	22.58	22.75	22.60		
20	QPSK	50	56	22.14	22.21	22.08	23.5	0.0
20	QPSK	100	0	22.19	22.20	22.02		
20	16QAM	1	1	22.05	22.17	21.93		
20	64QAM	1	1	20.86	20.94	20.97	21.5	2.5
20	256QAM	1	1	18.62	18.67	18.73		
20	256QAM	1	1	18.62	18.67	18.73		
Channel								
Frequency (MHz)				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)
15	QPSK	1	1	23.02	23.17	23.12	23.5	0.0
Channel								
Frequency (MHz)				165900	167300	169300	Tune-up limit (dBm)	MPR (dB)
10	QPSK	1	1	23.1	23.06	23.03	23.5	0.0
Channel								
Frequency (MHz)				165300	167300	169300	Tune-up limit (dBm)	MPR (dB)
5	QPSK	1	1	22.95	22.94	22.91	23.5	0.0



n25 Receiver on								
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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	13.40	13.30	13.27	14.0	0.0
20	PI/2 BPSK	1	53	13.26	13.39	13.29		
20	PI/2 BPSK	1	104	13.30	13.25	13.11		
20	PI/2 BPSK	50	0	13.34	13.25	13.21	14.0	0.0
20	PI/2 BPSK	50	28	13.27	13.28	13.18		
20	PI/2 BPSK	50	56	13.24	13.20	13.17		
20	PI/2 BPSK	100	0	13.27	13.27	13.20	14.0	0.0
20	QPSK	1	1	13.35	13.47	13.38	14.0	0.0
20	QPSK	1	53	13.45	13.40	13.28		
20	QPSK	1	104	13.19	13.26	13.10		
20	QPSK	50	0	13.37	13.38	13.12	14.0	0.0
20	QPSK	50	28	13.30	13.29	13.13		
20	QPSK	50	56	13.28	13.21	13.15		
20	QPSK	100	0	13.23	13.29	13.12	14.0	0.0
20	16QAM	1	1	13.47	13.35	13.03	14.0	0.0
20	64QAM	1	1	13.40	13.12	13.23	14.0	0.0
20	256QAM	1	1	13.41	13.36	13.43	14.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	13.25	13.3	13.22	14.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	13.27	13.32	13.38	14.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	13.22	13.31	13.38	14.0	0.0

n25 Sensor on								
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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	16.73	16.95	16.73	17.5	0.0
20	PI/2 BPSK	1	53	16.92	16.90	16.82		
20	PI/2 BPSK	1	104	16.68	16.95	16.68		
20	PI/2 BPSK	50	0	16.68	16.85	16.68	17.5	0.0
20	PI/2 BPSK	50	28	16.71	16.88	16.71		
20	PI/2 BPSK	50	56	16.63	16.80	16.63		
20	PI/2 BPSK	100	0	16.70	16.87	16.70	17.5	0.0
20	QPSK	1	1	16.80	16.97	16.80	17.5	0.0
20	QPSK	1	53	16.83	16.87	16.83		
20	QPSK	1	104	16.69	16.86	16.69		
20	QPSK	50	0	16.69	16.85	16.69	17.5	0.0
20	QPSK	50	28	16.72	16.86	16.72		
20	QPSK	50	56	16.64	16.81	16.64		
20	QPSK	100	0	16.72	16.89	16.72	17.5	0.0
20	16QAM	1	1	16.78	16.95	16.58	17.5	0.0
20	64QAM	1	1	16.75	16.72	16.55	17.5	0.0
20	256QAM	1	1	16.79	16.96	16.79	17.5	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	16.89	16.93	16.9	17.5	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	16.77	16.87	16.89	17.5	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	16.68	16.89	16.62	17.5	0.0

n25 Hotspot on								
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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	14.31	14.46	14.45	15.0	0.0
20	PI/2 BPSK	1	53	14.11	14.29	14.20		
20	PI/2 BPSK	1	104	14.17	14.09	14.00		
20	PI/2 BPSK	50	0	14.25	14.11	14.09	15.0	0.0
20	PI/2 BPSK	50	28	14.12	14.18	14.01		
20	PI/2 BPSK	50	56	14.11	14.04	14.06		
20	PI/2 BPSK	100	0	14.18	14.13	14.08	15.0	0.0
20	QPSK	1	1	14.20	14.36	14.21	15.0	0.0
20	QPSK	1	53	14.32	14.24	14.17		
20	QPSK	1	104	14.10	14.12	13.98		
20	QPSK	50	0	14.22	14.10	13.95	15.0	0.0
20	QPSK	50	28	14.17	14.23	14.02		
20	QPSK	50	56	14.19	14.07	14.03		
20	QPSK	100	0	14.15	14.19	13.95	15.0	0.0
20	16QAM	1	1	14.34	14.19	13.92	15.0	0.0
20	64QAM	1	1	14.31	13.98	14.11	15.0	0.0
20	256QAM	1	1	14.26	14.26	14.26	15.0	0.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	14.12	14.14	14.11	15.0	0.0
Channel				371000	376500	382000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	14.18	14.18	14.24	15.0	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	14.07	14.21	14.21	15.0	0.0



n25 Handheld on								
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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1860	1882.5	1905		
20	PI/2 BPSK	1	1	21.20	21.10	21.07	21.5	0.0
20	PI/2 BPSK	1	53	21.36	21.19	21.39		
20	PI/2 BPSK	1	104	21.10	21.05	20.91		
20	PI/2 BPSK	50	0	21.14	21.05	21.01	21.5	0.0
20	PI/2 BPSK	50	28	21.07	21.08	20.98		
20	PI/2 BPSK	50	56	21.04	21.00	20.97		
20	PI/2 BPSK	100	0	21.07	21.07	21.00	21.5	0.0
20	QPSK	1	1	21.15	21.41	21.18	21.5	0.0
20	QPSK	1	53	21.25	21.20	21.08		
20	QPSK	1	104	20.99	21.06	20.90		
20	QPSK	50	0	21.17	21.09	20.92	21.5	0.0
20	QPSK	50	28	21.10	21.13	20.93		
20	QPSK	50	56	21.08	21.01	20.95		
20	QPSK	100	0	21.10	21.19	20.92	21.5	0.0
20	16QAM	1	1	21.27	21.15	20.83	21.5	0.0
20	64QAM	1	1	21.20	20.92	21.03	21.5	0.0
20	256QAM	1	1	19.27	19.22	19.32	19.5	2.0
Channel				371500	376500	381500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
15	QPSK	1	1	21.05	21.11	21.02	21.5	0.0
Channel				371000	376500	380500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1882.5	1910		
10	QPSK	1	1	21.07	21.12	21.16	21.5	0.0
Channel				370500	376500	382500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
5	QPSK	1	1	21.02	21.11	21.18	21.5	0.0

n66 Receiver on								
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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	13.89	13.88	13.75	14.5	0.0
20	PI/2 BPSK	1	53	13.83	13.86	13.89		
20	PI/2 BPSK	1	104	13.91	13.81	13.62		
20	PI/2 BPSK	50	0	14.01	13.84	13.71	14.5	0.0
20	PI/2 BPSK	50	28	13.88	13.83	13.74		
20	PI/2 BPSK	50	56	13.88	13.79	13.72		
20	PI/2 BPSK	100	0	13.78	13.79	13.72	14.5	0.0
20	QPSK	1	1	14.03	14.04	14.02	14.5	0.0
20	QPSK	1	53	13.89	13.89	13.72		
20	QPSK	1	104	13.94	13.96	13.87		
20	QPSK	50	0	13.92	13.93	13.82	14.5	0.0
20	QPSK	50	28	13.77	13.84	13.67		
20	QPSK	50	56	13.90	13.79	13.66		
20	QPSK	100	0	13.84	13.85	13.65	14.5	0.0
20	16QAM	1	1	13.76	13.69	13.25	14.5	0.0
20	64QAM	1	1	13.92	13.92	13.75	14.5	0.0
20	256QAM	1	1	14.02	14.02	14.04	14.5	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	13.82	13.84	13.78	14.5	0.0
Channel				343000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	13.86	13.88	13.80	14.5	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	13.80	13.89	13.74	14.5	0.0

n66 Sensor on								
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	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	17.34	17.38	17.23	18.0	0.0
20	PI/2 BPSK	1	53	17.34	17.32	17.42		
20	PI/2 BPSK	1	104	17.40	17.33	17.09		
20	PI/2 BPSK	50	0	17.46	17.34	17.19	18.0	0.0
20	PI/2 BPSK	50	28	17.39	17.29	17.27		
20	PI/2 BPSK	50	56	17.37	17.31	17.19		
20	PI/2 BPSK	100	0	17.23	17.29	17.20	18.0	0.0
20	QPSK	1	1	17.54	17.59	17.55	18.0	0.0
20	QPSK	1	53	17.38	17.41	17.19		
20	QPSK	1	104	17.39	17.46	17.35		
20	QPSK	50	0	17.43	17.44	17.15	18.0	0.0
20	QPSK	50	28	17.28	17.36	17.14		
20	QPSK	50	56	17.35	17.29	17.14		
20	QPSK	100	0	17.35	17.39	17.18	18.0	0.0
20	16QAM	1	1	17.25	17.21	16.72	18.0	0.0
20	64QAM	1	1	17.37	17.42	17.23	18.0	0.0
20	256QAM	1	1	17.53	17.48	17.57	18.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	17.31	17.36	17.25	18.0	0.0
Channel				343000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	17.31	17.38	17.28	18.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	17.31	17.35	17.27	18.0	0.0



n66 Hotspot on									
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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	PI/2 BPSK	1	1	15.42	15.51	15.54			
20	PI/2 BPSK	1	53	15.46	15.41	15.54	16.0	0.0	
20	PI/2 BPSK	1	104	15.52	15.46	15.19			
20	PI/2 BPSK	50	0	15.54	15.47	15.30			
20	PI/2 BPSK	50	28	15.53	15.38	15.39	16.0	0.0	
20	PI/2 BPSK	50	56	15.49	15.44	15.29			
20	PI/2 BPSK	100	0	15.31	15.42	15.31	16.0	0.0	
20	QPSK	1	1	15.68	15.71	15.67			
20	QPSK	1	53	15.50	15.54	15.29	16.0	0.0	
20	QPSK	1	104	15.47	15.59	15.46			
20	QPSK	50	0	15.37	15.58	15.27			
20	QPSK	50	28	15.38	15.49	15.24	16.0	0.0	
20	QPSK	50	56	15.43	15.42	15.25			
20	QPSK	100	0	15.49	15.58	15.30	16.0	0.0	
20	16QAM	1	1	15.37	15.34	14.82	16.0	0.0	
20	64QAM	1	1	15.45	15.55	15.34	16.0	0.0	
20	256QAM	1	1	15.67	15.57	15.69	16.0	0.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	15.43	15.49	15.35	16.0	0.0	
Channel				343500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	15.39	15.51	15.39	16.0	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	15.45	15.44	15.39	16.0	0.0	

n66 Handheld on									
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	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	PI/2 BPSK	1	1	20.02	20.16	19.97			
20	PI/2 BPSK	1	53	20.14	20.02	20.22	20.5	0.0	
20	PI/2 BPSK	1	104	20.16	20.13	19.81			
20	PI/2 BPSK	50	0	20.14	20.12	19.93			
20	PI/2 BPSK	50	28	20.19	19.99	20.07	20.5	0.0	
20	PI/2 BPSK	50	56	20.13	20.11	19.91			
20	PI/2 BPSK	100	0	19.91	20.07	19.94	20.5	0.0	
20	QPSK	1	1	20.34	20.36	20.35			
20	QPSK	1	53	20.14	20.21	19.91	20.5	0.0	
20	QPSK	1	104	20.07	20.24	20.09			
20	QPSK	50	0	20.23	20.24	19.95			
20	QPSK	50	28	20.02	20.16	19.86	20.5	0.0	
20	QPSK	50	56	20.03	20.07	19.88			
20	QPSK	100	0	20.15	20.16	19.96	20.5	0.0	
20	16QAM	1	1	20.01	20.01	19.44	20.5	0.0	
20	64QAM	1	1	20.05	20.20	19.97	20.5	0.0	
20	256QAM	1	1	19.23	19.28	19.30	19.5	1.0	
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	1	20.17	20.16	20.00	20.5	0.0	
Channel				343500	349000	355000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	1	19.99	20.16	20.02	20.5	0.0	
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	1	20.11	20.05	20.01	20.5	0.0	



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2.4GHz WLAN Full Power/Hotspot/Body Worn/Handheld						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	22.11	22.50	100.00
		6	2437	22.12	22.50	
		11	2462	22.11	22.50	
802.11g 6Mbps	802.11n-HT20 MCS0	1	2412	20.83	21.50	98.28
		6	2437	21.04	21.50	
		11	2462	19.57	21.50	
802.11n-HT20 MCS0	802.11ac-VHT20 MCS0	1	2412	19.36	21.00	98.16
		6	2437	21.22	21.50	
		11	2462	18.93	21.00	

2.4GHz WLAN Receiver On						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	20.90	21.50	100.00
		6	2437	20.18	21.50	
		11	2462	20.15	21.50	
802.11g 6Mbps	802.11n-HT20 MCS0	1	2412		21.50	98.28
		6	2437		21.50	
		11	2462	Not Inquired	21.50	
802.11n-HT20 MCS0	802.11ac-VHT20 MCS0	1	2412		21.00	98.16
		6	2437		21.50	
		11	2462		21.00	

5GHz WLAN Full Power/Receiver On/Handheld						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.2GHz WLAN	802.11a 6Mbps	36	5180	19.52	21.00	98.62
		40	5200	20.19	21.00	
		44	5220	20.42	21.00	
802.11n-HT20 MCS0	802.11n-HT40 MCS0	36	5180	20.58	21.00	98.52
		40	5200	19.55	20.00	
		44	5220	19.12	20.00	
802.11n-HT40 MCS0	802.11ac-VHT20 MCS0	36	5190	11.95	13.00	96.35
		40	5200	18.99	20.00	
		44	5220	19.57	20.00	
802.11ac-VHT20 MCS0	802.11ac-VHT40 MCS0	36	5180	19.06	20.00	98.89
		40	5200	19.35	20.00	
		44	5220	19.51	20.00	
802.11ac-VHT40 MCS0	802.11ac-VHT80 MCS0	36	5190	11.96	13.00	96.35
		40	5200	19.05	20.00	
		42	5210	11.74	13.00	

5GHz WLAN Body Worn						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.2GHz WLAN	802.11a 6Mbps	36	5180	14.28	15.00	98.62
		40	5200	14.31	15.00	
		44	5220	14.36	15.00	
802.11n-HT20 MCS0	802.11n-HT40 MCS0	36	5180	14.40	15.00	98.52
		40	5200		15.00	
		44	5220		15.00	
802.11n-HT40 MCS0	802.11ac-VHT20 MCS0	36	5190		13.00	96.35
		40	5200	Not Inquired	14.50	
		44	5220		15.00	
802.11ac-VHT20 MCS0	802.11ac-VHT40 MCS0	36	5180		15.00	98.89
		40	5200		15.00	
		44	5220		15.00	
802.11ac-VHT40 MCS0	802.11ac-VHT80 MCS0	36	5190		13.00	96.35
		40	5200		14.50	
		42	5210		13.00	

5GHz WLAN Full Power/Receiver On/Handheld						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.3GHz WLAN	802.11a 6Mbps	52	5260	20.35	21.00	98.62
		56	5280	20.42	21.00	
		60	5300	20.32	21.00	
802.11n-HT20 MCS0	802.11n-HT40 MCS0	52	5260	20.41	21.00	98.52
		56	5280	19.36	20.00	
		60	5300	19.44	20.00	
802.11n-HT40 MCS0	802.11ac-VHT20 MCS0	54	5270	18.80	20.00	96.35
		62	5310	12.78	13.50	
		52	5260	19.31	20.00	
802.11ac-VHT20 MCS0	802.11ac-VHT40 MCS0	56	5280	19.38	20.00	98.89
		60	5300	19.41	20.00	
		64	5320	19.55	20.00	
802.11ac-VHT40 MCS0	802.11ac-VHT80 MCS0	54	5270	18.91	20.00	96.35
		62	5310	12.83	13.50	
		58	5290	13.50	14.50	

5GHz WLAN Body Worn						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.3GHz WLAN	802.11a 6Mbps	52	5260	14.23	15.00	98.62
		56	5280	14.28	15.00	
		60	5300	14.28	15.00	
802.11n-HT20 MCS0	802.11n-HT40 MCS0	52	5260	13.91	15.00	98.52
		56	5280		15.00	
		60	5300		15.00	
802.11n-HT40 MCS0	802.11ac-VHT20 MCS0	54	5270		14.50	96.35
		62	5310	Not Inquired	13.50	
		52	5260		15.00	
802.11ac-VHT20 MCS0	802.11ac-VHT40 MCS0	56	5280		15.00	98.89
		60	5300		15.00	
		64	5320		15.00	
802.11ac-VHT40 MCS0	802.11ac-VHT80 MCS0	54	5270		14.50	96.35
		62	5310		13.50	
		58	5290		14.50	

5GHz WLAN Full Power/Receiver On/Handheld						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.5GHz WLAN	802.11a 6Mbps	100	5500	20.59	21.50	98.62
		116	5580	20.77	21.50	
		132	5660	20.74	21.50	
802.11n-HT20 MCS0	802.11n-HT40 MCS0	100	5500	20.53	21.50	98.52
		116	5580	19.61	20.00	
		132	5660	20.20	21.00	
802.11n-HT40 MCS0	802.11ac-VHT20 MCS0	140	5700	18.22	19.00	96.35
		102	5510	14.55	15.50	
		110	5550	19.21	20.00	
802.11ac-VHT20 MCS0	802.11ac-VHT40 MCS0	134	5670	19.30	20.00	98.89
		100	5500	19.58	20.00	
		116	5580	20.21	21.00	
802.11ac-VHT40 MCS0	802.11ac-VHT80 MCS0	132	5660	19.08	21.00	96.35
		140	5700	18.25	19.50	
		102	5510	14.55	15.50	
802.11ac-VHT80 MCS0	802.11ac-VHT80 MCS0	110	5550	19.24	20.00	96.35
		134	5670	19.35	20.00	
		108	5530	12.52	13.50	

5GHz WLAN Body Worn						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.5GHz WLAN	802.11a 6Mbps	100	5500	13.72	15.50	98.62
		116	5580	14.47	15.50	
		132	5660	14.22	15.50	
802.11n-HT20 MCS0	802.11n-HT40 MCS0	100	5500	14.12	15.50	98.52
		116	5580		15.50	
		132	5660		15.50	
802.11n-HT40 MCS0	802.11ac-VHT20 MCS0	140	5700		15.50	96.35
		102	5510	Not Inquired	15.00	
		110	5550		15.00	
802.11ac-VHT20 MCS0	802.11ac-VHT40 MCS0	134	5670		15.00	98.89
		100	5500		15.50	
		116	5580		15.50	
802.11ac-VHT40 MCS0	802.11ac-VHT80 MCS0	132	5660		15.50	96.35
		140	5700		15.50	
		102	5510		15.00	
802.11ac-VHT80 MCS0	802.11ac-VHT80 MCS0	110	5550		15.00	96.35
		134	5670		15.00	
		108	5530		13.50	

5.8GHz WLAN Full Power/Receiver On/Handheld						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.38	21.50	98.62
		157	5785	20.55	21.50	
		165	5825	20.94	21.50	
802.11n-HT20 MCS0	802.11n-HT40 MCS0	149	5745	19.98	21.00	98.52
		157	5785	19.61	20.50	
		165	5825	20.20	21.00	
802.11n-HT40 MCS0	802.11ac-VHT20 MCS0	151	5755	19.08	20.00	96.35
		159	5795	18.94	20.00	
		149	5745	20.01	21.00	
802.11ac-VHT20 MCS0	802.11ac-VHT40 MCS0	157	5785	19.61	20.50	98.89
		165	5825	19.96	21.00	
		151	5755	19.14	20.00	
802.11ac-VHT40 MCS0	802.11ac-VHT80 MCS0	159	5795	18.93	20.00	96.35
		155	5775	19.94	20.00	
		155	5775	19.94	20.00	

5.8GHz WLAN Body Worn						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.8GHz WLAN	802.11a 6Mbps	149	5745	16.13	16.00	98.62
		157	5785	16.02	16.00	
		165	5825	16.07	16.00	
802.11n-HT20 MCS0	802.11n-HT40 MCS0	149	5745		16.00	98.52
		157	5785		16.00	
		165	5825		16.00	
802.11n-HT40 MCS0	802.11ac-VHT20 MCS0	151	5755		17.50	96.35
		159	5795	Not Inquired	17.50	
		149	5745		16.00	
802.11ac-VHT20 MCS0	802.11ac-VHT40 MCS0	157	5785		16.00	98.89
		165	5825		16.00	
		151	5755		17.50	
802.11ac-VHT40 MCS0	802.11ac-VHT80 MCS0	159	5795		17.50	96.35
		155	5775		17.50	
		155	5775		17.50	

BR / EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	3Mbps	6Mbps
BR / EDR	Ch00	2402	10.22	7.44	7.53
	Ch39	2441	11.40	8.20	8.77
	Ch78	2480	10.20	8.43	8.51
Tune-up Limit			12		

LE 4.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			20MHz	40MHz
LE	Ch00	2402		5.58
	Ch19	2440		6.02
	Ch39	2480		6.48
Tune-up Limit			8	

LE 5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			20MHz	40MHz
LE	Ch00	2402		5.27
	Ch19	2440		6.03
	Ch39	2480		6.53
Tune-up Limit			8.00	

MIMO

2.4GHz WLAN Simultaneous						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	15.81	16.50	100.00
		6	2437	15.07	16.50	
		11	2462	14.92	16.50	
	802.11g 6Mbps	1	2412	Not Inquired	16.50	98.28
		6	2437		16.50	
		11	2462		16.50	
	802.11n-HT20 MCS0	1	2412	Not Inquired	16.50	98.16
		6	2437		16.50	
		11	2462		16.50	

5GHz WLAN Simultaneous						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	9.83	11.00	98.62
		40	5200	9.79	11.00	
		44	5220	9.74	11.00	
		48	5240	9.83	11.00	
	802.11n-HT20 MCS0	36	5180	Not Inquired	11.00	98.52
		40	5200		11.00	
		44	5220		11.00	
		48	5240		11.00	
	802.11n-HT40 MCS0	38	5190	Not Inquired	10.50	96.35
		46	5230		10.50	
	802.11ac-VHT20 MCS0	36	5180	Not Inquired	11.00	98.89
		40	5200		11.00	
		44	5220		11.00	
	802.11ac-VHT40 MCS0	38	5190	Not Inquired	10.50	96.35
		46	5230		10.50	
	802.11ac-VHT80 MCS0	42	5210	Not Inquired	10.50	93.31

5GHz WLAN Simultaneous						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	9.27	10.50	98.62
		56	5280	9.61	10.50	
		60	5300	9.46	10.50	
		64	5320	9.66	10.50	
	802.11n-HT20 MCS0	52	5260	Not Inquired	10.50	98.52
		56	5280		10.50	
		60	5300		10.50	
		64	5320		10.50	
	802.11n-HT40 MCS0	54	5270	Not Inquired	10.00	96.35
		62	5310		10.00	
	802.11ac-VHT20 MCS0	52	5260	Not Inquired	10.50	98.89
		56	5280		10.50	
		60	5300		10.50	
	802.11ac-VHT40 MCS0	54	5270	Not Inquired	10.00	96.35
		62	5310		10.00	
	802.11ac-VHT80 MCS0	58	5290	Not Inquired	10.00	93.31

5GHz WLAN Simultaneous						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	8.33	10.00	98.62
		116	5580	9.09	10.00	
		132	5660	8.69	10.00	
		140	5700	8.55	10.00	
	802.11n-HT20 MCS0	100	5500	Not Inquired	10.00	98.52
		116	5580		10.00	
		132	5660		10.00	
		140	5700		10.00	
	802.11n-HT40 MCS0	102	5510	Not Inquired	9.50	96.35
		110	5550		9.50	
		134	5670		9.50	
	802.11ac-VHT20 MCS0	100	5500	Not Inquired	10.00	98.89
		116	5580		10.00	
		132	5660		10.00	
		140	5700		10.00	
	802.11ac-VHT40 MCS0	102	5510	Not Inquired	9.50	96.35
		110	5550		9.50	
		134	5670		9.50	
	802.11ac-VHT80 MCS0	106	5530	Not Inquired	9.50	93.31

5GHz WLAN Simultaneous						
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	12.26	13.00	98.62
		157	5785	12.06	13.00	
		165	5825	12.40	13.00	
	802.11n-HT20 MCS0	149	5745	Not Inquired	13.00	98.52
		157	5785		13.00	
		165	5825		13.00	
	802.11n-HT40 MCS0	151	5755	Not Inquired	12.50	96.35
		159	5795		12.50	
	802.11ac-VHT20 MCS0	149	5745	Not Inquired	13.00	98.89
		157	5785		13.00	
		165	5825		13.00	
	802.11ac-VHT40 MCS0	151	5755	Not Inquired	12.50	96.35
		159	5795		12.40	
	802.11ac-VHT80 MCS0	155	5775	Not Inquired	12.50	93.31



Appendix F. Supplemental Tuner Head & Body SAR Results

The results are shown as follows.

Head-Ant1																	
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	20	40	60	80	100	120	140
CDMA2000 BC1	RC3 SO55	1013	824.7	-	-	Right Cheek	0mm	0.203	0.243	0.135	0.179	0.167	0.189	0.233	0.124	0.131	0.113
CDMA2000 BC1	RC3 SO55	25	1851.25	-	-	Right Cheek	0mm	0.059	0.083	0.041	0.045	0.052	0.061	0.072	0.052	0.036	0.033
CDMA2000 BC10	RC3 SO55	580	820.5	-	-	Right Cheek	0mm	0.207	0.248	0.148	0.192	0.181	0.202	0.246	0.137	0.145	0.126
WCDMA II	RMC 12.2Kbps	9262	1852.4	-	-	Left Cheek	0mm	0.067	0.098	0.056	0.059	0.067	0.071	0.073	0.067	0.051	0.048
WCDMA IV	RMC 12.2Kbps	1312	1712	-	-	Left Cheek	0mm	0.0767	0.106	0.049	0.049	0.032	0.054	0.052	0.039	0.018	
WCDMA V	RMC 12.2Kbps	4182	836.4	-	-	Right Cheek	0mm	0.285	0.245	0.226	0.231	0.179	0.221	0.241	0.211	0.023	
LTE Band 12	10M/QPSK	23095	707.5	1	0	Right Cheek	0mm	0.192	0.225	0.131	0.113	0.005	0.025	0.085	0.048	0.068	
LTE Band 13	10M/QPSK	23230	782	1	0	Right Cheek	0mm	0.152	0.179	0.072	0.035	0.088	0.123	0.161	0.092	0.011	
LTE Band 14	10M/QPSK	23330	793	1	0	Left Cheek	0mm	0.19	0.351	0.061	0.075	0.047	0.050	0.121	0.003	0.007	
LTE Band 26	15M/QPSK	26865	831.5	1	0	Right Cheek	0mm	0.241	0.286	0.175	0.219	0.207	0.229	0.273	0.164	0.171	
LTE Band 71	20M/QPSK	133322	683	1	0	Right Cheek	0mm	0.203	0.234	0.221	0.170	0.219	0.149	0.029	0.087	0.049	
LTE Band 25	20M/QPSK	26140	1860	1	0	Left Cheek	0mm	0.0722	0.101	0.041	0.047	0.028	0.024	0.033	0.030	0.032	
LTE Band 66	20M/QPSK	132072	1720	1	0	Left Cheek	0mm	0.088	0.109	0.081	0.075	0.067	0.073	0.075	0.068	0.067	
LTE Band 7	20M/QPSK	20850	2510	1	0	Left Tilted	0mm	0.07	0.106	0.037	0.038	0.036	0.027	0.030	0.040	0.036	
LTE Band 30	10M/QPSK	27710	2310	1	0	Left Cheek	0mm	0.087	0.124	0.032	0.031	0.034	0.033	0.033	0.026	0.024	
TE Band 41-HPUE	20M/QPSK	39750	2506	1	0	Right Cheek	0mm	0.073	0.106	0.012	0.013	0.011	0.011	0.010	0.012	0.010	
FR1 N5	20M/BPSK	167300	836.5	1	1	Right Cheek	0mm	0.244	0.27	0.232	0.136	0.143	0.237	0.262	0.218	0.133	
FR1 N2	20M/BPSK	376000	1880	1	53	Right Cheek	0mm	0.058	0.069	0.012	0.013	0.021	0.010	0.057	0.061	0.034	
FR1 N41	100M/QPSK	509202	2546.01	1	1	Left Tilted	0mm	0.074	0.092	0.073	0.086	0.056	0.043	0.073	0.024	0.045	
FR1 N66	20M/QPSK	349000	1745	1	1	Left Cheek	0mm	0.048	0.057	0.049	0.023	0.017	0.052	0.055	0.045	0.049	

Head-Ant2

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
LTE Band 25A2-UAT	20M/QPSK	18900	1880	1	0	Left Tilted	0mm	0.484	0.609	0.528	0.481	0.333	0.571	0.572	0.573

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
LTE Band 5-UAT	10M/QPSK	20525	836.5	1	0	Left Tilted	0mm	0.453	0.591	0.322	0.327	0.405	0.438	0.470	0.478

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
LTE Band 12-UAT	10M/QPSK	23095	707.5	25	0	Left Tilted	0mm	0.426	0.73	0.474	0.514	0.514	0.719	0.724	0.728

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	0.7
LTE Band 30	10M/QPSK	27710	2310	1	0	Left Tilted	0mm	0.47	0.834	0.747	

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
LTE Band 41-UAT	20M/QPSK	40620	2593	1	0	Left Tilted	0mm	0.46	0.808	0.237	0.644

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
LTE Band 66&4-UAT	20M/QPSK	132322	1745	50	0	Left Tilted	0mm	0.395	0.694	0.147	0.208	0.311	0.635	0.635	0.545

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
FR1 N25	20M/QPSK	376500	1882.5	1	1	Left Tilted	0mm	0.485	0.677	0.5324	0.513	0.501	0.512	0.562	0.552

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
FR1 N5	20M/QPSK	167300	836.5	50	0	Left Cheek	0mm	0.465	0.623	0.513	0.491	0.462	0.532	0.551	0.551

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
FR1 N66	20M/QPSK	349000	1745	1	1	Left Tilted	0mm	0.489	0.69	0.452	0.474	0.502	0.612	0.612	0.583

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
FR1 N71	20M/QPSK	136100	680.5	50	28	Left Cheek	0mm	0.495	0.711	0.503	0.503	0.503	0.521	0.521	0.521

Body-Ant1

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	20	40	60	80	100	120	140
CDMA2000 BC0	RTAP 153.6Kbps	1013	824.7	-	-	Back	5mm	0.972	1.671	0.446	0.916	0.914	0.660	1.511	0.315	0.419	0.819
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)								
CDMA2000 BC1	RTAP 153.6Kbps	600	1880	-	-	Bottom Side	5mm	0.955	1.656	0.863	0.921	0.956	1.225	1.116	0.721	0.364	0.528
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)								
CDMA2000 BC10	RTAP 153.6Kbps	684	823.1	-	-	Back	5mm	0.999	1.743	0.344	1.124	0.921	1.136	1.374	0.434	0.384	1.034
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)								
WCDMA II	RMC 12.2Kbps	9400	1880	-	-	Back	5mm	1.12	1.691	0.826	0.902	0.949	1.237	1.122	0.993	0.674	0.618
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	4	24	44	64	84	104	124	
WCDMA IV	RMC 12.2Kbps	1513	1752.6	-	-	Back	5mm	1.09	1.685	0.952	0.932	0.901	1.155	1.235	1.056	0.945	
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	5	25	45	65	85	105	125	
WCDMA V	RMC 12.2Kbps	4233	846.6	-	-	Back	5mm	0.949	1.17	0.979	0.977	0.758	0.927	0.982	0.988	1.015	
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	6	26	46	66	86	106	126	
LTE Band 12	10M/QPSK	23095	707.5	1	0	Back	5mm	0.539	1.21	0.816	0.744	0.412	0.290	0.469	0.352	0.390	
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	7	27	47	67	87	107	127	
LTE Band 13	10M/QPSK	23230	782	1	0	Back	5mm	0.748	1.44	0.553	0.385	0.500	0.605	0.994	0.680	0.246	
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	8	28	48	68	88	108	128	
LTE Band 14	10M/QPSK	23330	793	1	0	Back	5mm	0.79	1.44	0.970	0.955	0.841	0.915	1.321	0.580	0.607	
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	9	29	49	69	89	109	129	
LTE Band 26	15M/QPSK	26865	831.5	1	0	Back	5mm	0.922	1.344	0.591	1.015	0.809	0.963	1.290	0.438	0.503	
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	10	30	50	70	90	110	130	
LTE Band 71	20M/QPSK	133322	683	1	0	Back	5mm	0.456	0.815	0.634	0.583	0.194	0.264	0.443	0.326	0.364	
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	11	31	51	71	91	111	131	
LTE Band 25	20M/QPSK	26590	1905	1	0	Back	5mm	1.01	1.283	1.171	0.989	0.715	0.556	0.786	0.762	0.788	
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	12	32	52	72	92	112	132	
LTE Band 66	20M/QPSK	132322	1745	50	0	Back	5mm	0.487	0.786	0.437	0.343	0.333	0.416	0.457	0.435	0.407	
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	13	33	53	73	93	113	133	
LTE Band 7	20M/QPSK	21350	2560	1	0	Bottom Side	5mm	0.837	0.963	0.924	0.937	0.795	0.713	0.833	0.866	0.825	
Hotspot 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	14	34	54	74	94	114	134	
LTE Band 30	10M/QPSK	27710	2310	1	0	Back	5mm	0.628	1.126	0.96	0.944	0.908	0.929	0.879	0.754	0.721	
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	15	35	55	75	95	115	135	
LTE Band 41	20M/QPSK	40620	2593	1	0	Bottom Side	5mm	1.02	1.699	1.545	1.56	1.521	1.513	1.55	1.316	1.429	
Hotspot 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	16	36	56	76	96	116	136	
FR1 N5	20M/QPSK	167300	836.5	50	28	Back	5mm	0.579	0.743	0.602	0.506	0.513	0.607	0.632	0.588	0.503	
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)								
FR1 N2	20M/QPSK	376500	1882.5	1	53	Back	5mm	0.521	0.663	0.505	0.506	0.506	0.496	0.502	0.579	0.511	
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)								
FR1 N41	100M/QPSK	518598	2592.99	135	0	Back	5mm	0.399	0.523	0.403	0.421	0.384	0.362	0.404	0.225	0.375	
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)								
FR1 N66	20M/QPSK	349000	1745	50	0	Back	5mm	0.461	0.687	0.558	0.474	0.483	0.586	0.603	0.572	0.590	

Body-Ant2

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
LTE Band 25&2-UAT	20M/QPSK	26340	1880	1	0	Top Side	5mm	0.464	0.824	0.654	0.492	0.342	0.821	0.811	0.774
LTE Band 5	10M/QPSK	20525	836.5	1	0	Front	5mm	0.417	0.725	0.469	0.424	0.376	0.507	0.521	0.521
LTE Band 12	10M/QPSK	23095	707.5	1	0	Top Side	5mm	0.317	0.588	0.035	0.079	0.080	0.527	0.542	0.542
LTE Band 30	10M/QPSK	27710	2310	25	0	Front	5mm	0.46	0.802	0.611					
LTE Band 41-UAT	20M/QPSK	40620	2593	1	0	Top Side	5mm	0.446	0.854	0.310	0.850	0.719			
LTE Band 68&4-UAT	20M/QPSK	132322	1745	50	0	Front	5mm	0.475	0.808	0.272	0.302	0.356	0.541	0.541	0.483
FR1 N25&2	20M/QPSK	376500	1882.5	1	1	Right Side	5mm	0.497	0.645	0.503	0.480	0.456	0.521	0.533	0.521
FR1 N5	20M/QPSK	167300	836.5	50	28	Top Side	5mm	0.499	0.678	0.573	0.536	0.535	0.626	0.634	0.634
FR1 N66	20M/QPSK	349000	1745	1	1	Right Side	5mm	0.506	0.684	0.443	0.460	0.497	0.592	0.592	0.577
FR1 N71	20M/QPSK	136100	680.5	1	1	Top Side	5mm	0.18	0.242	0.189	0.189	0.189	0.190	0.190	0.190