



REPORT No.: SZ24090015S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacturer's document.



Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.11	23.18	23.16	24.00	23.07	23.09	22.98	24.00	22.91	23.02	23.00	24.00
3GPP Rel 5	HSDPA Subtest-1	22.05	22.21	22.19	23.00	21.87	21.97	21.91	23.00	21.68	21.69	21.52	22.50
3GPP Rel 5	HSDPA Subtest-2	22.01	22.21	22.11	23.00	21.97	22.00	21.90	23.00	21.61	21.64	21.46	22.50
3GPP Rel 5	HSDPA Subtest-3	21.54	21.68	21.59	22.50	21.46	21.48	21.37	22.50	21.05	21.08	20.95	22.00
3GPP Rel 5	HSDPA Subtest-4	21.55	21.63	21.55	22.50	21.49	21.50	21.31	22.50	21.03	21.03	20.98	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.04	22.20	22.21	23.00	21.82	21.81	21.75	22.50	21.68	21.67	21.46	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.08	22.19	22.22	23.00	21.85	21.82	21.76	22.50	21.67	21.66	21.48	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.56	21.70	21.73	22.50	21.34	21.32	21.27	22.00	21.17	21.16	20.99	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.57	21.69	21.74	22.50	21.33	21.33	21.26	22.00	21.16	21.15	20.97	22.00
3GPP Rel 6	HSUPA Subtest-1	22.06	22.21	22.08	23.00	21.84	21.95	21.89	23.00	21.63	21.70	21.51	22.50
3GPP Rel 6	HSUPA Subtest-2	21.54	21.74	21.64	22.50	21.34	21.44	21.39	22.00	21.21	21.20	21.03	22.00
3GPP Rel 6	HSUPA Subtest-3	22.07	22.20	22.03	23.00	21.89	21.92	21.78	23.00	21.68	21.66	21.49	22.50
3GPP Rel 6	HSUPA Subtest-4	22.08	22.18	22.21	23.00	21.78	21.95	21.88	23.00	21.66	21.69	21.53	22.50
3GPP Rel 6	HSUPA Subtest-5	22.06	22.17	22.11	23.00	21.86	21.94	21.80	23.00	21.62	21.67	21.48	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	22.09	22.16	22.03	23.00	21.97	21.96	21.88	23.00	21.60	21.58	21.41	22.50
Attenuator		Cable Loss				Cable Loss				Cable Loss			
Mode		Max.				Max.				Max.			

3	16QAM	8	4	21.06	21.02	21.13	22.5
3	16QAM	8	7	21.19	21.13	21.15	
3	16QAM	15	0	21.05	21.12	21.06	
3	64QAM	1	0	22.17	22.30	22.08	23.5
3	64QAM	1	8	22.11	22.21	22.12	
3	64QAM	1	14	22.07	22.12	22.03	
3	64QAM	8	0	21.25	21.31	21.41	22.5
3	64QAM	8	4	21.29	21.31	21.35	
3	64QAM	8	7	21.09	21.16	21.06	
3	64QAM	15	0	21.16	21.14	21.10	Tune-up limit
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.07	23.13	23.11	24.5
1.4	QPSK	1	3	23.09	22.95	23.08	
1.4	QPSK	1	5	23.06	23.04	23.05	
1.4	QPSK	3	0	22.13	22.29	22.26	
1.4	QPSK	3	1	22.09	22.24	22.09	
1.4	QPSK	3	3	22.19	22.24	22.28	
1.4	QPSK	6	0	22.00	22.05	22.23	23.5
1.4	16QAM	1	0	22.25	22.30	22.14	23.5
1.4	16QAM	1	3	22.19	22.28	22.19	
1.4	16QAM	1	5	22.33	22.28	22.15	
1.4	16QAM	3	0	21.28	21.32	21.18	
1.4	16QAM	3	1	21.21	21.20	21.16	
1.4	16QAM	3	3	21.24	21.11	21.05	
1.4	16QAM	6	0	21.02	21.06	21.04	22.5
1.4	64QAM	1	0	22.25	22.20	22.14	23.5
1.4	64QAM	1	3	22.33	22.28	21.99	
1.4	64QAM	1	5	22.12	22.19	22.24	
1.4	64QAM	3	0	21.30	21.30	21.30	
1.4	64QAM	3	1	21.12	21.31	21.17	
1.4	64QAM	3	3	21.02	21.22	21.16	
1.4	64QAM	6	0	21.19	21.26	21.12	22.5

3	16QAM	8	4	21.11	21.24	21.11	22.5
3	16QAM	8	7	21.26	21.19	21.04	
3	16QAM	15	0	21.24	21.12	21.04	
3	64QAM	1	0	22.18	22.26	22.05	23.5
3	64QAM	1	8	22.26	22.36	22.08	
3	64QAM	1	14	22.27	22.16	22.21	
3	64QAM	8	0	21.22	21.35	21.39	22.5
3	64QAM	8	4	21.28	21.21	21.27	
3	64QAM	8	7	21.22	21.22	21.16	
3	64QAM	15	0	21.31	21.22	21.30	Tune-up limit
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.18	23.09	23.06	24.5
1.4	QPSK	1	3	23.07	23.16	22.95	
1.4	QPSK	1	5	22.97	23.08	23.11	
1.4	QPSK	3	0	22.15	22.41	22.15	
1.4	QPSK	3	1	22.08	22.32	22.10	
1.4	QPSK	3	3	22.21	22.01	22.32	
1.4	QPSK	6	0	22.06	22.25	22.24	23.5
1.4	16QAM	1	0	22.20	22.25	22.26	23.5
1.4	16QAM	1	3	22.09	22.17	22.23	
1.4	16QAM	1	5	22.31	22.30	22.14	
1.4	16QAM	3	0	21.10	21.37	21.26	
1.4	16QAM	3	1	21.26	21.10	21.09	
1.4	16QAM	3	3	21.16	21.15	21.07	
1.4	16QAM	6	0	21.21	21.27	21.01	22.5
1.4	64QAM	1	0	22.21	22.30	22.29	23.5
1.4	64QAM	1	3	22.12	22.25	22.12	
1.4	64QAM	1	5	22.26	22.01	22.16	
1.4	64QAM	3	0	21.40	21.47	21.19	
1.4	64QAM	3	1	21.16	21.22	21.39	
1.4	64QAM	3	3	21.17	21.28	21.18	
1.4	64QAM	6	0	21.29	21.18	21.13	22.5

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.30	23.38	23.35	
10	QPSK	1	25	23.12	23.30	23.20	24.5
10	QPSK	1	49	23.19	23.16	23.24	
10	QPSK	25	0	22.38	22.44	22.36	
10	QPSK	25	12	22.36	22.28	22.19	23.5
10	QPSK	25	25	22.27	22.40	22.29	
10	QPSK	50	0	22.35	22.37	22.33	
10	16QAM	1	0	22.41	22.44	22.37	23.5
10	16QAM	1	25	22.19	22.31	22.37	
10	16QAM	1	49	22.45	22.47	22.17	
10	16QAM	25	0	21.21	21.38	21.24	22.5
10	16QAM	25	12	21.27	21.37	21.12	
10	16QAM	25	25	21.37	21.24	21.29	
10	16QAM	50	0	21.21	21.38	21.21	23.5
10	64QAM	1	0	22.23	22.46	22.39	
10	64QAM	1	25	22.30	22.46	22.36	
10	64QAM	1	49	22.44	22.23	22.30	22.5
10	64QAM	25	0	21.38	21.39	21.53	
10	64QAM	25	12	21.23	21.51	21.37	
10	64QAM	25	25	21.38	21.26	21.25	22.5
10	64QAM	50	0	21.31	21.36	21.24	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.20	23.35	23.15	24.5
5	QPSK	1	12	23.07	23.21	23.18	
5	QPSK	1	24	23.22	23.26	23.27	
5	QPSK	12	0	22.39	22.40	22.44	23.5
5	QPSK	12	7	22.34	22.31	22.36	
5	QPSK	12	13	22.36	22.29	22.43	
5	QPSK	25	0	22.19	22.27	22.34	23.5
5	16QAM	1	0	22.39	22.59	22.41	
5	16QAM	1	12	22.22	22.30	22.51	
5	16QAM	1	24	22.32	22.45	22.25	22.5
5	16QAM	12	0	21.29	21.53	21.42	
5	16QAM	12	7	21.33	21.33	21.22	
5	16QAM	12	13	21.44	21.26	21.19	23.5
5	16QAM	25	0	21.24	21.44	21.29	
5	64QAM	1	0	22.33	22.42	22.26	
5	64QAM	1	12	22.34	22.43	22.31	22.5
5	64QAM	1	24	22.34	22.21	22.35	
5	64QAM	12	0	21.30	21.43	21.42	
5	64QAM	12	7	21.34	21.29	21.52	22.5
5	64QAM	12	13	21.40	21.40	21.32	
5	64QAM	25	0	21.46	21.35	21.24	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.19	23.33	23.12	24.5
3	QPSK	1	8	23.28	23.17	23.17	
3	QPSK	1	14	23.29	23.22	23.34	
3	QPSK	8	0	22.34	22.50	22.32	23.5
3	QPSK	8	4	22.15	22.38	22.22	
3	QPSK	8	7	22.35	22.26	22.24	
3	QPSK	15	0	22.33	22.33	22.34	23.5
3	16QAM	1	0	22.52	22.56	22.48	
3	16QAM	1	8	22.22	22.49	22.55	
3	16QAM	1	14	22.35	22.41	22.31	22.5
3	16QAM	8	0	21.25	21.47	21.31	
3	16QAM	8	4	21.40	21.37	21.22	
3	16QAM	8	7	21.44	21.44	21.22	23.5
3	16QAM	15	0	21.29	21.30	21.18	
3	64QAM	1	0	22.29	22.31	22.33	
3	64QAM	1	8	22.39	22.51	22.16	22.5
3	64QAM	1	14	22.35	22.20	22.43	
3	64QAM	8	0	21.50	21.53	21.50	
3	64QAM	8	4	21.19	21.32	21.33	22.5
3	64QAM	8	7	21.38	21.41	21.16	
3	64QAM	15	0	21.33	21.50	21.29	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.15	23.34	23.32	24.5
1.4	QPSK	1	3	23.04	23.22	23.17	
1.4	QPSK	1	5	23.13	23.19	23.26	
1.4	QPSK	3	0	22.25	22.57	22.43	23.5
1.4	QPSK	3	1	22.24	22.28	22.38	
1.4	QPSK	3	3	22.33	22.26	22.37	
1.4	QPSK	6	0	22.25	22.29	22.33	23.5
1.4	16QAM	1	0	22.41	22.52	22.48	
1.4	16QAM	1	3	22.30	22.50	22.48	
1.4	16QAM	1	5	22.48	22.45	22.36	22.5
1.4	16QAM	3	0	21.40	21.32	21.37	
1.4	16QAM	3	1	21.28	21.24	21.22	
1.4	16QAM	3	3	21.39	21.45	21.28	23.5
1.4	16QAM	6	0	21.19	21.23	21.18	
1.4	64QAM	1	0	22.20	22.49	22.40	
1.4	64QAM	1	3	22.49	22.31	22.16	22.5
1.4	64QAM	1	5	22.37	22.41	22.36	
1.4	64QAM	3	0	21.40	21.37	21.52	
1.4	64QAM	3	1	21.19	21.52	21.45	22.5
1.4	64QAM	3	3	21.39	21.24	21.38	
1.4	64QAM	6	0	21.25	21.27	21.27	

Band 13(700MHz Band) (dBm) Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up lim (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0	23.40			24.5
10	QPSK	1	25	23.32			
10	QPSK	1	49	23.25			
10	QPSK	25	0	22.41			23.5
10	QPSK	25	12	22.38			
10	QPSK	25	25	22.27			
10	QPSK	50	0	22.30			23.5
10	16QAM	1	0	22.40			
10	16QAM	1	25	22.31			
10	16QAM	1	49	22.35			22.5
10	16QAM	25	0	21.37			
10	16QAM	25	12	21.26			
10	16QAM	25	25	21.29			23.5
10	16QAM	50	0	21.23			
10	64QAM	1	0	22.36			
10	64QAM	1	25	22.19			23.5
10	64QAM	1	49	22.22			
10	64QAM	25	0	21.43			
10	64QAM	25	12	21.38			22.5
10	64QAM	25	25	21.38			
10	64QAM	50	0	21.42			
Channel				23205	23230	23255	Tune-up lim (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.35	23.38	23.28	24.5
5	QPSK	1	12	23.11	23.20	23.28	
5	QPSK	1	24	23.33	23.37	23.37	
5	QPSK	12	0	22.33	22.35	22.37	23.5
5	QPSK	12	7	22.32	22.49	22.25	
5	QPSK	12	13	22.23	22.29	22.40	
5	QPSK	25	0	22.35	22.31	22.31	23.5
5	16QAM	1	0	22.37	22.55	22.38	
5	16QAM	1	12	22.27	22.45	22.38	
5	16QAM	1	24	22.40	22.45	22.21	22.5
5	16QAM	12	0	21.26	21.40	21.25	
5	16QAM	12	7	21.24	21.28	21.14	
5	16QAM	12	13	21.38	21.44	21.39	23.5
5	16QAM	25	0	21.33	21.24	21.29	
5	64QAM	1	0	22.23	22.52	22.36	
5	64QAM	1	12	22.32	22.48	22.18	23.5
5	64QAM	1	24	22.30	22.38	22.18	
5	64QAM	12	0	21.45	21.40	21.49	
5	64QAM	12	7	21.43	21.49	21.38	22.5
5	64QAM	12	13	21.29	21.30	21.27	
5	64QAM	25	0	21.48	21.28	21.22	

Band 14 (700MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0	23.69			24.5
10	QPSK	1	25	23.54			
10	QPSK	1	49	23.53			
10	QPSK	25	0	22.71			23.5
10	QPSK	25	12	22.55			
10	QPSK	25	25	22.61			
10	QPSK	50	0	22.60			23.5
10	16QAM	1	0	22.68			
10	16QAM	1	25	22.59			
10	16QAM	1	49	22.54			22.5
10	16QAM	25	0	21.72			
10	16QAM	25	12	21.58			
10	16QAM	25	25	21.63			23.5
10	16QAM	50	0	21.62			
10	64QAM	1	0	22.65			
10	64QAM	1	25	22.54			22.5
10	64QAM	1	49	22.57			
10	64QAM	25	0	21.77			
10	64QAM	25	12	21.71			22.5
10	64QAM	25	25	21.63			
10	64QAM	50	0	21.70			
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	23.58	23.64	23.57	24.5
5	QPSK	1	12	23.52	23.60	23.49	
5	QPSK	1	24	23.50	23.57	23.51	
5	QPSK	12	0	22.51	22.61	22.62	23.5
5	QPSK	12	7	22.38	22.58	22.64	
5	QPSK	12	13	22.46	22.43	22.69	
5	QPSK	25	0	22.45	22.59	22.51	23.5
5	16QAM	1	0	22.69	22.69	22.55	
5	16QAM	1	12	22.55	22.69	22.60	
5	16QAM	1	24	22.63	22.64	22.59	22.5
5	16QAM	12	0	21.63	21.56	21.70	
5	16QAM	12	7	21.67	21.49	21.52	
5	16QAM	12	13	21.47	21.73	21.49	23.5
5	16QAM	25	0	21.56	21.70	21.58	
5	64QAM	1	0	22.56	22.57	22.54	
5	64QAM	1	12	22.73	22.76	22.41	22.5
5	64QAM	1	24	22.59	22.54	22.47	
5	64QAM	12	0	21.75	21.69	21.74	
5	64QAM	12	7	21.48	21.56	21.58	22.5
5	64QAM	12	13	21.57	21.63	21.59	
5	64QAM	25	0	21.73	21.68	21.56	

Band 17 (700MHz Band) (dBm) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	Tune-up limit (dBm)
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.35	23.30	23.29	24.5
10	QPSK	1	25	23.27	23.14	23.16	
10	QPSK	1	49	23.09	23.14	23.25	
10	QPSK	25	0	22.32	22.50	22.31	23.5
10	QPSK	25	12	22.14	22.25	22.36	
10	QPSK	25	25	22.17	22.24	22.44	
10	QPSK	50	0	22.31	22.33	22.32	23.5
10	16QAM	1	0	22.31	22.49	22.30	
10	16QAM	1	25	22.17	22.30	22.37	
10	16QAM	1	49	22.35	22.26	22.20	22.5
10	16QAM	25	0	21.15	21.28	21.24	
10	16QAM	25	12	21.32	21.21	21.32	
10	16QAM	25	25	21.27	21.40	21.26	23.5
10	16QAM	50	0	21.28	21.31	21.12	
10	64QAM	1	0	22.20	22.34	22.35	
10	64QAM	1	25	22.30	22.36	22.32	22.5
10	64QAM	1	49	22.35	22.32	22.16	
10	64QAM	25	0	21.40	21.54	21.45	
10	64QAM	25	12	21.35	21.45	21.52	22.5
10	64QAM	25	25	21.33	21.26	21.20	
10	64QAM	50	0	21.41	21.37	21.31	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.32	23.28	23.24	24.5
5	QPSK	1	12	23.13	23.07	23.17	
5	QPSK	1	24	23.08	23.18	23.21	
5	QPSK	12	0	22.40	22.50	22.40	23.5
5	QPSK	12	7	22.26	22.26	22.34	
5	QPSK	12	13	22.28	22.25	22.33	
5	QPSK	25	0	22.14	22.30	22.24	23.5
5	16QAM	1	0	22.44	22.40	22.40	
5	16QAM	1	12	22.21	22.39	22.41	
5	16QAM	1	24	22.27	22.37	22.27	22.5
5	16QAM	12	0	21.15	21.39	21.42	
5	16QAM	12	7	21.22	21.19	21.10	
5	16QAM	12	13	21.17	21.34	21.37	23.5
5	16QAM	25	0	21.34	21.31	21.15	
5	64QAM	1	0	22.30	22.47	22.20	
5	64QAM	1	12	22.42	22.50	22.30	22.5
5	64QAM	1	24	22.31	22.18	22.16	
5	64QAM	12	0	21.34	21.44	21.43	
5	64QAM	12	7	21.39	21.29	21.27	22.5
5	64QAM	12	13	21.27	21.18	21.28	
5	64QAM	25	0	21.38	21.41	21.22	

Band 18 (835MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23925			
Frequency (MHz)				822.5			
15	QPSK	1	0	22.11			24
15	QPSK	1	37	22.09			
15	QPSK	1	74	22.07			
15	QPSK	36	0	21.20			22.5
15	QPSK	36	20	21.11			
15	QPSK	36	39	21.04			
15	QPSK	75	0	21.10			22.5
15	16QAM	1	0	21.11			
15	16QAM	1	37	21.05			
15	16QAM	1	74	21.07			21.5
15	16QAM	36	0	20.16			
15	16QAM	36	20	20.13			
15	16QAM	36	39	20.09			21.5
15	16QAM	75	0	20.12			
15	64QAM	1	0	21.17			
15	64QAM	1	25	21.10			22.5
15	64QAM	1	49	21.14			
15	64QAM	25	0	20.15			
15	64QAM	25	12	20.13			21.5
15	64QAM	25	25	20.02			
15	64QAM	50	0	20.06			
Channel				23900	23925	23950	
Frequency (MHz)				820	822.5	825	
10	QPSK	1	0	23.12	23.15	23.11	24.5
10	QPSK	1	25	23.06	23.10	23.01	
10	QPSK	1	49	22.99	23.08	23.03	
10	QPSK	25	0	22.20	22.36	22.25	23
10	QPSK	25	12	22.12	22.13	22.12	
10	QPSK	25	25	22.01	22.04	22.16	
10	QPSK	50	0	22.07	22.14	22.10	23
10	16QAM	1	0	22.16	22.14	22.00	
10	16QAM	1	25	22.11	22.05	22.20	
10	16QAM	1	49	22.02	22.08	22.01	22
10	16QAM	25	0	21.04	21.15	21.11	
10	16QAM	25	12	20.93	20.94	21.02	
10	16QAM	25	25	20.99	21.01	20.99	23
10	16QAM	50	0	21.09	21.03	21.07	
10	64QAM	1	0	22.07	22.08	22.12	
10	64QAM	1	25	22.03	22.27	21.97	22
10	64QAM	1	49	21.98	21.99	22.19	
10	64QAM	25	0	21.18	21.16	21.14	
10	64QAM	25	12	21.10	21.12	21.07	22
10	64QAM	25	25	21.01	20.95	20.94	
10	64QAM	50	0	21.07	21.02	21.16	
Channel				23875	23925	23975	
Frequency (MHz)				817.5	822.5	827.5	
5	QPSK	1	0	23.08	23.12	23.07	24.5
5	QPSK	1	12	22.99	23.07	22.95	
5	QPSK	1	24	23.02	23.11	23.01	
5	QPSK	12	0	22.04	22.35	22.26	23
5	QPSK	12	7	22.01	22.02	22.14	
5	QPSK	12	13	22.12	22.02	22.18	
5	QPSK	25	0	21.93	22.03	22.15	23
5	16QAM	1	0	22.20	22.39	22.15	
5	16QAM	1	12	22.02	22.22	22.16	
5	16QAM	1	24	22.22	22.11	22.15	22
5	16QAM	12	0	21.08	21.23	21.22	
5	16QAM	12	7	21.12	20.94	20.91	
5	16QAM	12	13	21.17	21.07	21.05	23
5	16QAM	25	0	21.10	21.18	20.89	
5	64QAM	1	0	22.19	22.28	22.08	
5	64QAM	1	12	22.12	22.21	22.04	22
5	64QAM	1	24	22.21	22.07	22.01	
5	64QAM	12	0	21.25	21.28	21.28	
5	64QAM	12	7	21.05	21.05	21.17	22
5	64QAM	12	13	21.15	21.12	21.13	
5	64QAM	25	0	20.99	21.07	21.04	

Band 19 (835MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				24075			24
Frequency (MHz)				837.5			
15	QPSK	1	0	22.09			24
15	QPSK	1	37	22.03			
15	QPSK	1	74	22.06			
15	QPSK	36	0	21.15			22.5
15	QPSK	36	20	21.13			
15	QPSK	36	39	21.06			
15	QPSK	75	0	21.12			22.5
15	16QAM	1	0	21.16			
15	16QAM	1	37	21.09			
15	16QAM	1	74	21.11			21.5
15	16QAM	36	0	20.19			
15	16QAM	36	20	20.15			
15	16QAM	36	39	20.06			21.5
15	16QAM	75	0	20.10			
15	64QAM	1	0	21.22			
15	64QAM	1	25	21.16			22.5
15	64QAM	1	49	21.11			
15	64QAM	25	0	20.18			
15	64QAM	25	12	20.09			21.5
15	64QAM	25	25	20.12			
15	64QAM	50	0	20.10			
Channel				24050	24075	24100	24.5
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	23.07	23.14	23.08	24.5
10	QPSK	1	25	22.82	22.87	22.86	
10	QPSK	1	49	23.09	23.06	22.91	
10	QPSK	25	0	22.23	22.26	22.22	23
10	QPSK	25	12	22.03	22.09	22.14	
10	QPSK	25	25	22.14	22.03	22.21	
10	QPSK	50	0	22.12	22.15	22.11	23
10	16QAM	1	0	22.11	22.14	22.07	
10	16QAM	1	25	22.14	22.08	22.24	
10	16QAM	1	49	22.07	22.22	22.03	22
10	16QAM	25	0	20.98	21.16	20.99	
10	16QAM	25	12	21.06	21.07	20.90	
10	16QAM	25	25	21.13	21.14	20.92	23
10	16QAM	50	0	21.10	21.15	20.98	
10	64QAM	1	0	21.96	22.12	22.08	
10	64QAM	1	25	22.07	22.09	21.92	22
10	64QAM	1	49	22.12	22.15	22.00	
10	64QAM	25	0	21.13	21.35	21.11	
10	64QAM	25	12	21.02	21.15	21.17	22
10	64QAM	25	25	21.09	21.04	21.15	
10	64QAM	50	0	21.11	21.09	21.05	
Channel				24025	24075	24125	24.5
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	23.09	23.13	23.03	24.5
5	QPSK	1	12	22.99	22.93	22.97	
5	QPSK	1	24	23.05	22.91	23.02	
5	QPSK	12	0	22.00	22.25	22.12	23
5	QPSK	12	7	22.08	22.08	22.04	
5	QPSK	12	13	22.03	21.93	22.08	
5	QPSK	25	0	22.02	22.01	21.98	23
5	16QAM	1	0	22.25	22.26	21.99	
5	16QAM	1	12	22.01	22.13	22.08	
5	16QAM	1	24	22.18	22.21	22.08	22
5	16QAM	12	0	21.06	21.13	21.00	
5	16QAM	12	7	20.98	21.11	20.93	
5	16QAM	12	13	21.01	21.00	21.01	23
5	16QAM	25	0	21.05	21.10	21.08	
5	64QAM	1	0	22.09	22.11	22.02	
5	64QAM	1	12	22.05	22.26	21.99	23
5	64QAM	1	24	22.04	22.14	21.96	
5	64QAM	12	0	21.08	21.19	21.19	
5	64QAM	12	7	21.11	21.18	21.09	22
5	64QAM	12	13	21.14	21.17	21.05	
5	64QAM	25	0	21.23	21.02	20.97	

3	16QAM	8	4	21.29	21.24	21.19	22.5
3	16QAM	8	7	21.33	21.30	21.13	
3	16QAM	15	0	21.18	21.10	21.26	
3	64QAM	1	0	22.12	22.44	22.17	23.5
3	64QAM	1	8	22.29	22.41	22.19	
3	64QAM	1	14	22.28	22.16	22.25	
3	64QAM	8	0	21.43	21.46	21.25	22.5
3	64QAM	8	4	21.18	21.38	21.40	
3	64QAM	8	7	21.22	21.14	21.26	
3	64QAM	15	0	21.14	21.26	21.22	Tune-up limit (dBm)
Channel				26047	26365	26683	
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	23.19	23.24	23.16	24.5
1.4	QPSK	1	3	23.15	23.10	23.09	
1.4	QPSK	1	5	23.09	23.11	23.02	
1.4	QPSK	3	0	22.17	22.26	22.32	23.5
1.4	QPSK	3	1	22.07	22.25	22.19	
1.4	QPSK	3	3	22.23	22.26	22.27	
1.4	QPSK	6	0	22.07	22.27	22.32	22.5
1.4	16QAM	1	0	22.26	22.36	22.29	
1.4	16QAM	1	3	22.26	22.42	22.34	
1.4	16QAM	1	5	22.29	22.24	22.18	22
1.4	16QAM	3	0	21.10	21.33	21.20	
1.4	16QAM	3	1	21.08	21.10	21.09	
1.4	16QAM	3	3	21.16	21.26	21.15	23.5
1.4	16QAM	6	0	21.16	21.11	21.03	
1.4	64QAM	1	0	22.33	22.31	22.12	
1.4	64QAM	1	3	22.39	22.37	22.17	22.5
1.4	64QAM	1	5	22.20	22.23	22.31	
1.4	64QAM	3	0	21.40	21.32	21.26	
1.4	64QAM	3	1	21.23	21.33	21.35	22.5
1.4	64QAM	3	3	21.04	21.22	21.23	
1.4	64QAM	6	0	21.25	21.39	21.16	

1.4	16QAM	3	1	21.23	21.13	21.07	22.5
1.4	16QAM	3	3	21.22	21.28	21.03	
1.4	16QAM	6	0	21.07	21.08	21.06	
1.4	64QAM	1	0	22.07	22.34	22.06	23.5
1.4	64QAM	1	3	22.15	22.31	22.20	
1.4	64QAM	1	5	22.14	22.16	21.99	
1.4	64QAM	3	0	21.28	21.29	21.33	22.5
1.4	64QAM	3	1	21.22	21.19	21.13	
1.4	64QAM	3	3	21.13	21.23	21.08	
1.4	64QAM	6	0	21.23	21.28	21.10	

Band 30 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				27710			
Frequency (MHz)				2310			
10	QPSK	1	0	23.71			24.5
10	QPSK	1	25	23.64			
10	QPSK	1	49	23.62			
10	QPSK	25	0	22.66			23.5
10	QPSK	25	12	22.59			
10	QPSK	25	25	22.54			
10	QPSK	50	0	22.56			23.5
10	16QAM	1	0	22.78			
10	16QAM	1	25	22.73			
10	16QAM	1	49	22.51			22.5
10	16QAM	25	0	21.52			
10	16QAM	25	12	21.44			
10	16QAM	25	25	21.54			23.5
10	16QAM	50	0	21.67			
10	64QAM	1	0	22.69			23.5
10	64QAM	1	25	22.59			
10	64QAM	1	49	22.54			
10	64QAM	25	0	21.73			22.5
10	64QAM	25	12	21.52			
10	64QAM	25	25	21.61			
10	64QAM	50	0	21.52			
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	23.61	23.66	23.56	24.5
5	QPSK	1	12	23.55	23.53	23.49	
5	QPSK	1	24	23.47	23.48	23.57	
5	QPSK	12	0	22.43	22.57	22.69	23.5
5	QPSK	12	7	22.36	22.49	22.51	
5	QPSK	12	13	22.36	22.47	22.51	
5	QPSK	25	0	22.35	22.66	22.61	23.5
5	16QAM	1	0	22.62	22.69	22.47	
5	16QAM	1	12	22.45	22.62	22.60	
5	16QAM	1	24	22.53	22.53	22.48	22.5
5	16QAM	12	0	21.55	21.53	21.49	
5	16QAM	12	7	21.46	21.41	21.35	
5	16QAM	12	13	21.58	21.57	21.38	23.5
5	16QAM	25	0	21.46	21.52	21.40	
5	64QAM	1	0	22.45	22.52	22.41	
5	64QAM	1	12	22.62	22.64	22.50	22.5
5	64QAM	1	24	22.57	22.43	22.52	
5	64QAM	12	0	21.69	21.76	21.64	
5	64QAM	12	7	21.53	21.66	21.65	22.5
5	64QAM	12	13	21.41	21.44	21.56	
5	64QAM	25	0	21.59	21.49	21.57	

Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.14	23.31	23.30	24.5
20	QPSK	1	49	22.96	23.09	23.19	
20	QPSK	1	99	23.07	23.13	23.11	
20	QPSK	50	0	22.26	22.32	22.27	23.5
20	QPSK	50	24	22.20	22.23	22.18	
20	QPSK	50	50	22.22	22.15	22.19	
20	QPSK	100	0	22.17	22.20	22.13	23.5
20	16QAM	1	0	22.25	22.30	22.11	
20	16QAM	1	49	22.23	22.33	22.23	
20	16QAM	1	99	22.18	22.25	22.19	22.5
20	16QAM	50	0	21.03	21.25	21.10	
20	16QAM	50	24	21.21	21.04	20.98	
20	16QAM	50	50	21.14	21.23	21.18	23.5
20	16QAM	100	0	21.20	21.23	21.21	
20	64QAM	1	0	22.26	22.27	22.16	
20	64QAM	1	49	22.23	22.21	22.00	22.5
20	64QAM	1	99	22.18	22.01	22.09	
20	64QAM	50	0	21.24	21.35	21.33	
20	64QAM	50	24	21.05	21.13	21.19	23.5
20	64QAM	50	50	21.18	21.20	21.11	
20	64QAM	100	0	21.27	21.35	21.11	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.14	23.25	23.20	24.5
15	QPSK	1	37	22.92	23.16	22.93	
15	QPSK	1	74	23.01	23.05	23.07	
15	QPSK	36	0	22.28	22.31	22.18	23.5
15	QPSK	36	20	22.10	22.25	22.18	
15	QPSK	36	39	22.16	22.04	22.19	
15	QPSK	75	0	22.00	22.16	22.18	23.5
15	16QAM	1	0	22.35	22.36	22.30	
15	16QAM	1	37	22.12	22.16	22.31	
15	16QAM	1	74	22.31	22.25	22.10	22.5
15	16QAM	36	0	21.20	21.15	21.14	
15	16QAM	36	20	21.03	21.20	21.14	
15	16QAM	36	39	21.11	21.32	21.15	23.5
15	16QAM	75	0	21.12	21.13	21.01	
15	64QAM	1	0	22.22	22.31	22.30	
15	64QAM	1	37	22.29	22.33	22.03	22.5
15	64QAM	1	74	22.18	22.02	22.22	
15	64QAM	36	0	21.35	21.36	21.37	
15	64QAM	36	20	21.04	21.13	21.30	23.5
15	64QAM	36	39	21.08	21.13	21.10	
15	64QAM	75	0	21.10	21.26	21.22	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.20	23.27	23.24	24.5
10	QPSK	1	25	23.08	23.12	23.09	
10	QPSK	1	49	23.05	23.13	23.03	
10	QPSK	25	0	22.16	22.36	22.17	23.5
10	QPSK	25	12	22.10	22.12	22.05	
10	QPSK	25	25	22.24	22.20	22.20	
10	QPSK	50	0	22.12	22.21	22.28	23.5
10	16QAM	1	0	22.21	22.42	22.15	
10	16QAM	1	25	22.10	22.13	22.33	
10	16QAM	1	49	22.25	22.33	22.07	22.5
10	16QAM	25	0	21.05	21.30	21.32	
10	16QAM	25	12	21.17	21.12	21.12	
10	16QAM	25	25	21.09	21.19	21.04	23.5
10	16QAM	50	0	21.22	21.20	21.22	
10	64QAM	1	0	22.26	22.16	22.07	
10	64QAM	1	25	22.20	22.30	22.18	22.5
10	64QAM	1	49	22.06	22.10	22.28	
10	64QAM	25	0	21.26	21.35	21.40	
10	64QAM	25	12	21.17	21.26	21.23	23.5
10	64QAM	25	25	21.11	21.12	21.17	
10	64QAM	50	0	21.09	21.18	21.22	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.13	23.28	23.21	24.5
5	QPSK	1	12	22.94	23.04	23.07	
5	QPSK	1	24	22.96	23.06	23.01	
5	QPSK	12	0	22.11	22.33	22.13	23.5
5	QPSK	12	7	22.20	22.23	22.11	
5	QPSK	12	13	22.19	22.26	22.23	
5	QPSK	25	0	22.02	22.28	22.19	23.5
5	16QAM	1	0	22.38	22.23	22.25	
5	16QAM	1	12	22.12	22.14	22.37	
5	16QAM	1	24	22.25	22.31	22.15	22.5
5	16QAM	12	0	21.11	21.15	21.19	
5	16QAM	12	7	21.27	21.21	21.16	
5	16QAM	12	13	21.25	21.17	21.26	23.5
5	16QAM	25	0	21.21	21.26	21.18	
5	64QAM	1	0	22.12	22.20	22.22	
5	64QAM	1	12	22.17	22.21	22.11	22.5
5	64QAM	1	24	22.09	22.21	22.19	
5	64QAM	12	0	21.26	21.23	21.40	
5	64QAM	12	7	21.20	21.36	21.36	23.5
5	64QAM	12	13	21.03	21.24	21.12	
5	64QAM	25	0	21.09	21.29	21.07	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.20	23.26	23.27	24.5
3	QPSK	1	8	23.09	23.04	23.08	
3	QPSK	1	14	23.06	23.00	23.06	
3	QPSK	8	0	22.11	22.20	22.33	23.5
3	QPSK	8	4	22.21	22.23	22.17	
3	QPSK	8	7	22.24	22.11	22.09	
3	QPSK	15	0	22.09	22.05	22.24	23.5
3	16QAM	1	0	22.34	22.30	22.09	
3	16QAM	1	8	22.24	22.36	22.16	
3	16QAM	1	14	22.30	22.14	22.10	23.5
3	16QAM	8	0	21.28	21.32	21.27	

3	16QAM	8	4	21.06	21.02	21.13	22.5
3	16QAM	8	7	21.19	21.13	21.15	
3	16QAM	15	0	21.05	21.12	21.06	
3	64QAM	1	0	22.17	22.30	22.08	23.5
3	64QAM	1	8	22.11	22.21	22.12	
3	64QAM	1	14	22.07	22.12	22.03	
3	64QAM	8	0	21.25	21.31	21.41	22.5
3	64QAM	8	4	21.29	21.31	21.35	
3	64QAM	8	7	21.09	21.16	21.06	
3	64QAM	15	0	21.16	21.14	21.10	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.07	23.24	23.16	24.5
1.4	QPSK	1	3	23.09	22.95	23.08	
1.4	QPSK	1	5	23.06	23.04	23.05	
1.4	QPSK	3	0	22.13	22.29	22.26	
1.4	QPSK	3	1	22.09	22.24	22.09	
1.4	QPSK	3	3	22.19	22.24	22.28	
1.4	QPSK	6	0	22.00	22.05	22.23	23.5
1.4	16QAM	1	0	22.25	22.30	22.14	23.5
1.4	16QAM	1	3	22.19	22.28	22.19	
1.4	16QAM	1	5	22.33	22.28	22.15	
1.4	16QAM	3	0	21.28	21.32	21.18	
1.4	16QAM	3	1	21.21	21.20	21.16	
1.4	16QAM	3	3	21.24	21.11	21.05	
1.4	16QAM	6	0	21.02	21.06	21.04	22.5
1.4	64QAM	1	0	22.25	22.20	22.14	23.5
1.4	64QAM	1	3	22.33	22.28	21.99	
1.4	64QAM	1	5	22.12	22.19	22.24	
1.4	64QAM	3	0	21.30	21.30	21.30	
1.4	64QAM	3	1	21.12	21.31	21.17	
1.4	64QAM	3	3	21.02	21.22	21.16	
1.4	64QAM	6	0	21.19	21.26	21.12	22.5

Band 71 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	24
Frequency (MHz)				673	683	688	
20	QPSK	1	0	22.20	22.29	22.26	24
20	QPSK	1	49	22.11	22.18	22.17	
20	QPSK	1	99	22.08	22.23	22.13	
20	QPSK	50	0	21.43	21.54	21.38	22.5
20	QPSK	50	24	21.30	21.38	21.25	
20	QPSK	50	50	21.17	21.21	21.21	
20	QPSK	100	0	21.16	21.39	21.20	22.5
20	16QAM	1	0	21.30	21.42	21.33	
20	16QAM	1	49	21.38	21.49	21.49	
20	16QAM	1	99	21.44	21.37	21.23	21.5
20	16QAM	50	0	20.26	20.38	20.21	
20	16QAM	50	24	20.15	20.34	20.14	
20	16QAM	50	50	20.23	20.35	20.36	22.5
20	16QAM	100	0	20.20	20.35	20.31	
20	64QAM	1	0	21.21	21.31	21.28	
20	64QAM	1	49	21.32	21.32	21.33	21.5
20	64QAM	1	99	21.29	21.19	21.32	
20	64QAM	50	0	20.49	20.36	20.30	
20	64QAM	50	24	20.27	20.36	20.29	21.5
20	64QAM	50	50	20.18	20.37	20.18	
20	64QAM	100	0	20.44	20.45	20.20	
Channel				133197	133297	133397	24.5
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.16	23.22	23.20	24.5
15	QPSK	1	37	23.04	23.14	23.09	
15	QPSK	1	74	23.19	23.18	23.14	
15	QPSK	36	0	22.29	22.35	22.28	23
15	QPSK	36	20	22.24	22.34	22.18	
15	QPSK	36	39	22.20	22.23	22.31	
15	QPSK	75	0	22.21	22.31	22.25	23
15	16QAM	1	0	22.49	22.47	22.27	
15	16QAM	1	37	22.30	22.32	22.48	
15	16QAM	1	74	22.23	22.45	22.37	22
15	16QAM	36	0	21.28	21.27	21.32	
15	16QAM	36	20	21.37	21.26	21.24	
15	16QAM	36	39	21.19	21.34	21.29	23
15	16QAM	75	0	21.11	21.22	21.15	
15	64QAM	1	0	22.35	22.41	22.31	
15	64QAM	1	37	22.35	22.33	22.12	22
15	64QAM	1	74	22.17	22.37	22.36	
15	64QAM	36	0	21.30	21.37	21.44	
15	64QAM	36	20	21.27	21.35	21.37	22
15	64QAM	36	39	21.33	21.38	21.27	
15	64QAM	75	0	21.44	21.42	21.29	
Channel				133172	133272	133422	24.5
Frequency (MHz)				668	678	693	
10	QPSK	1	0	23.18	23.18	23.13	24.5
10	QPSK	1	25	23.10	23.14	23.11	
10	QPSK	1	49	23.08	23.09	23.08	
10	QPSK	25	0	22.38	22.43	22.40	23
10	QPSK	25	12	22.34	22.25	22.18	
10	QPSK	25	25	22.26	22.13	22.30	
10	QPSK	50	0	22.13	22.16	22.38	23
10	16QAM	1	0	22.37	22.45	22.38	
10	16QAM	1	25	22.26	22.43	22.39	
10	16QAM	1	49	22.27	22.41	22.18	22
10	16QAM	25	0	21.24	21.46	21.28	
10	16QAM	25	12	21.18	21.14	21.30	
10	16QAM	25	25	21.35	21.37	21.22	23
10	16QAM	50	0	21.27	21.25	21.25	
10	64QAM	1	0	22.24	22.48	22.40	
10	64QAM	1	25	22.24	22.36	22.23	22
10	64QAM	1	49	22.41	22.26	22.35	
10	64QAM	25	0	21.37	21.35	21.44	
10	64QAM	25	12	21.21	21.44	21.42	22
10	64QAM	25	25	21.23	21.31	21.34	
10	64QAM	50	0	21.43	21.30	21.36	
Channel				133147	133247	133447	24.5
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	23.14	23.19	23.15	24.5
5	QPSK	1	12	23.13	23.12	23.12	
5	QPSK	1	24	23.10	23.09	23.16	
5	QPSK	12	0	22.41	22.35	22.23	23
5	QPSK	12	7	22.21	22.31	22.35	
5	QPSK	12	13	22.36	22.24	22.28	
5	QPSK	25	0	22.24	22.25	22.39	23
5	16QAM	1	0	22.38	22.46	22.21	
5	16QAM	1	12	22.19	22.49	22.35	
5	16QAM	1	24	22.33	22.24	22.14	22
5	16QAM	12	0	21.37	21.38	21.32	
5	16QAM	12	7	21.25	21.33	21.24	
5	16QAM	12	13	21.21	21.20	21.14	23
5	16QAM	25	0	21.14	21.36	21.31	
5	64QAM	1	0	22.39	22.45	22.36	
5	64QAM	1	12	22.38	22.24	22.27	22
5	64QAM	1	24	22.26	22.32	22.17	
5	64QAM	12	0	21.40	21.39	21.37	
5	64QAM	12	7	21.36	21.36	21.47	22
5	64QAM	12	13	21.27	21.20	21.23	
5	64QAM	25	0	21.21	21.31	21.34	

CA_7C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	22.26	23.50
21100	21001	21199	QPSK	1	0	0	0	1	0	22.29	23.50
21350	21152	21350	QPSK	1	0	0	0	1	0	22.15	23.50
20850	20850	21048	16QAM	1	0	0	0	1	0	21.63	23.00
21100	21001	21199	16QAM	1	0	0	0	1	0	21.72	23.00
21350	21152	21350	16QAM	1	0	0	0	1	0	21.54	23.00
20850	20850	21048	64QAM	1	0	0	0	1	0	21.33	22.50
21100	21001	21199	64QAM	1	0	0	0	1	0	21.41	22.50
21350	21152	21350	64QAM	1	0	0	0	1	0	21.30	22.50
20850	20850	21048	QPSK	50	0	0	0	1	0	21.42	22.50
21100	21001	21199	QPSK	50	0	0	0	1	0	21.47	22.50
21350	21152	21350	QPSK	50	0	0	0	1	0	21.36	22.50

CA_41C_PC 3											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	22.67	24.00
40521	40521	40719	QPSK	1	0	0	0	1	0	22.75	24.00
41292	41292	41490	QPSK	1	0	0	0	1	0	22.73	24.00
39750	39750	39948	16QAM	1	0	0	0	1	0	22.38	23.50
40521	40521	40719	16QAM	1	0	0	0	1	0	22.46	23.50
41292	41292	41490	16QAM	1	0	0	0	1	0	22.47	23.50
39750	39750	39948	64QAM	1	0	0	0	1	0	21.78	23.00
40521	40521	40719	64QAM	1	0	0	0	1	0	21.84	23.00
41292	41292	41490	64QAM	1	0	0	0	1	0	21.85	23.00
39750	39750	39948	QPSK	50	0	0	0	1	0	21.75	23.00
40521	40521	40719	QPSK	50	0	0	0	1	0	21.79	23.00
41292	41292	41490	QPSK	50	0	0	0	1	0	21.83	23.00

2CC LTE Downlink												
Configure	CA Configuration	PCC					SCC				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band & Inter-band	CA_12A-30A	12	10	23095	707.5	QPSK/1#0	30	10	27710	2310.0	22.95	23.38
	CA_25A-25A	25	20	26140	1860	QPSK/1#0	25	20	26590	1905.0	23.88	23.42
	CA_25A-26A	25	10	26140	1860	QPSK/1#0	26	10	26865	831.5	23.85	23.42
	CA_26A-41A	26	10	26865	831.5	QPSK/1#0	41	20	38750	2310.0	23.43	23.88
	CA_29A_30A	30	10	27710	2310.0	QPSK/1#0	29	10	9715	722.5	23.22	23.71
	CA_2A-12A	2	10	18700	1860	QPSK/1#0	12	10	23095	707.5	22.59	23.18
	CA_2A-13A	2	10	18700	1860	QPSK/1#0	13	10	23230	782.0	22.53	23.18
	CA_2A-17A	2	10	18700	1860	QPSK/1#0	17	10	23790	710.0	22.55	23.18
	CA_2A-29A	2	10	18700	1860	QPSK/1#0	29	10	9715	722.5	22.51	23.18
	CA_2A-2A	2	10	18700	1860	QPSK/1#0	2	10	19100	1900.0	22.60	23.18
	CA_2A-4A	2	10	18700	1860	QPSK/1#0	4	10	20050	1720.0	22.56	23.18
	CA_2A-5A	2	10	18700	1860	QPSK/1#0	5	10	20450	829.0	22.54	23.18
	CA_2C	2	20	18801	1870.1	QPSK/1#0	2	20	18999	1889.9	22.61	23.18
	CA_41A-41A	41	20	39750	2506.0	QPSK/1#0	41	20	41490	2680.0	25.19	25.90
	CA_41C	41	20	40521	2583.1	QPSK/1#0	41	20	40719	2602.9	25.22	25.90
	CA_4A-12A	4	10	20050	1720.0	QPSK/1#0	12	10	23095	707.5	22.67	23.23
	CA_4A-13A	4	10	20050	1720.0	QPSK/1#0	13	10	23230	782.0	22.64	23.23
	CA_4A-17A	4	10	20050	1720.0	QPSK/1#0	17	10	23790	710.0	22.65	23.23
	CA_4A-29A	4	10	20050	1720.0	QPSK/1#0	29	10	9715	722.5	22.58	23.23
	CA_4A-4A	4	20	20050	1720.0	QPSK/1#0	4	20	20300	1745.0	22.55	23.23
	CA_4A-5A	4	10	20050	1720.0	QPSK/1#0	5	10	20450	829.0	22.60	23.23
	CA_5A-30A	5	10	20450	829.0	QPSK/1#0	30	10	27710	2310.0	22.51	23.37
	CA_5A-7A	5	10	20450	829.0	QPSK/1#0	7	20	21350	2560.0	22.52	23.37
	CA_7A-7A	7	20	20850	2510	QPSK/1#0	7	20	21350	2560.0	22.63	23.23
	CA_7C	7	20	21001	2525.1	QPSK/1#0	7	20	21199	2544.9	22.66	23.23
	CA_5A-5A	5	10	20450	829	QPSK/1#0	5	10	20600	844.0	22.48	23.37
	CA_5B	5	10	20476	831.6	QPSK/1#0	5	10	20575	841.5	22.24	23.37
	CA_12A-66A	12	10	23095	707.5	QPSK/1#0	66	20	67236	2190.0	22.77	23.38
	CA_13A-66A	13	10	23230	782.0	QPSK/1#0	66	20	67236	2190.0	22.81	23.40
	CA_66A_29A	66	10	132072	1720	QPSK/1#0	29	10	9715	722.5	22.75	23.31
	CA_2A-66A	2	20	18700	1860	QPSK/1#0	66	20	67236	2190.0	22.58	23.23
	CA_5A-66A	5	10	20450	829.0	QPSK/1#0	66	20	67236	2190.0	22.47	23.37
	CA_66A-66A	66	20	132072	1720	QPSK/1#0	66	20	67236	2190.0	22.64	23.31
	CA_66B	66	10	132373	1750.1	QPSK/1#0	66	10	132472	1760.0	22.68	23.31
	CA_66C	66	20	132323	1745.1	QPSK/1#0	66	20	132521	1764.9	22.67	23.31
	CA_5A-41A	5	10	20450	829	QPSK/1#0	41	10	38750	2310.0	22.41	23.37
	CA_66A-71A	66	10	132072	1720	QPSK/1#0	71	10	133297	680.5	22.70	23.31
	CA_4A-71A	4	10	20050	1720.0	QPSK/1#0	71	10	133297	680.5	22.63	23.23
	CA_2A-71A	2	10	18700	1860	QPSK/1#0	71	10	133297	680.5	22.61	23.23
	CA_14A-66A	14	10	23330	793	QPSK/1#0	66	20	67236	2190.0	23.12	23.69
	CA_14A-30A	14	10	23330	793	QPSK/1#0	30	10	27710	2310.0	23.08	23.69
	CA_2A-14A	2	10	18700	1860	QPSK/1#0	2	10	18898	1879.8	22.64	23.23

2.4GHz WLAN ANT 1

2.4GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	21.38	22.50	22.00	89.68
		CH 6	2437	21.51	22.50	22.00	
		CH 11	2462	21.52	22.50	22.00	
	802.11g 6Mbps	CH 1	2412	21.19	22.00	22.00	98.35
		CH 6	2437	21.14	22.00	22.00	
		CH 11	2462	21.19	22.00	22.00	
	802.11n-HT20 MCS0	CH 1	2412	21.03	22.00	22.00	98.23
		CH 6	2437	21.11	22.00	22.00	
		CH 11	2462	21.18	22.00	22.00	
	802.11n-HT40 MCS0	CH 3	2432	21.52	22.50	22.00	94.89
		CH 6	2437	21.62	22.50	22.00	
		CH 9	2452	21.44	22.50	22.00	

5GHz WLAN ANT 1

5.2GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 36	5180	16.85	18.00	18.00	98.54
		CH 44	5220	17.00	18.00	18.00	
		CH 48	5240	16.84	18.00	18.00	
	802.11n-HT20 MCS0	CH 36	5180	16.84	18.00	18.00	98.44
		CH 44	5220	16.96	18.00	18.00	
		CH 48	5240	16.76	18.00	18.00	
	802.11n-HT40 MCS0	CH 38	5190	17.10	18.00	18.00	96.88
		CH 46	5230	17.34	18.00	18.00	
		CH 36	5180	16.86	18.00	18.00	98.45
	802.11ac-VHT20 MCS0	CH 44	5220	17.08	18.00	18.00	
		CH 48	5240	16.95	18.00	18.00	
	802.11ac-VHT40 MCS0	CH 38	5190	17.17	18.00	18.00	96.91
		CH 46	5230	17.25	18.00	18.00	
		CH 42	5210	17.31	18.00	18.00	93.88

5GHz WLAN ANT 1

5.3GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 52	5260	17.25	18.00	18.00	98.54
		CH 60	5300	16.97	18.00	18.00	
		CH 64	5320	16.78	18.00	18.00	
	802.11n-HT20 MCS0	CH 52	5260	17.02	18.00	18.00	98.44
		CH 60	5300	16.85	18.00	18.00	
		CH 64	5320	16.60	18.00	18.00	
	802.11n-HT40 MCS0	CH 54	5270	17.31	18.00	18.00	95.88
		CH 62	5310	17.29	18.00	18.00	
		CH 52	5260	17.22	18.00	18.00	98.45
	802.11ac-VHT20 MCS0	CH 60	5300	17.04	18.00	18.00	
		CH 64	5320	16.90	18.00	18.00	
	802.11ac-VHT40 MCS0	CH 54	5270	17.20	18.00	18.00	96.91
		CH 62	5310	17.18	18.00	18.00	
		CH 58	5290	17.23	18.00	18.00	93.88

5GHz WLAN ANT 1

5.5GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 100	5500	16.14	19.00	18.00	98.54
		CH 120	5600	16.33	19.00	18.00	
		CH 144	5720	16.16	19.00	18.00	
	802.11n-HT20 MCS0	CH 100	5500	17.92	19.00	18.00	98.44
		CH 120	5600	17.92	19.00	18.00	
		CH 144	5720	18.00	19.00	18.00	
	802.11n-HT40 MCS0	CH 102	5510	18.32	19.00	18.00	96.88
		CH 126	5630	18.56	19.00	18.00	
		CH 142	5710	18.62	19.00	18.00	98.45
	802.11ac-VHT20 MCS0	CH 100	5500	18.12	19.00	18.00	
		CH 120	5600	18.28	19.00	18.00	
		CH 144	5720	18.17	19.00	18.00	96.91
	802.11ac-VHT40 MCS0	CH 102	5510	18.66	20.00	18.00	
		CH 126	5630	18.93	20.00	18.00	
		CH 142	5710	18.66	20.00	18.00	93.88
	802.11ac-VHT80 MCS0	CH 106	5630	18.16	19.50	18.00	
		CH 122	5610	18.67	19.50	18.00	
		CH 138	5690	18.49	19.50	18.00	

5GHz WLAN ANT 1

5.8GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 148	5745	17.85	19.00	18.00	98.07
		CH 157	5785	16.19	19.00	18.00	
		CH 165	5825	16.28	19.00	18.00	
	802.11n-HT20 MCS0	CH 148	5745	17.58	19.00	18.00	97.93
		CH 157	5785	17.59	19.00	18.00	
		CH 165	5825	18.06	19.00	18.00	96.88
	802.11n-HT40 MCS0	CH 151	5755	18.33	19.00	18.00	
		CH 159	5795	18.40	19.00	18.00	
		CH 148	5745	17.80	19.00	18.00	97.94
	802.11ac-VHT20 MCS0	CH 157	5785	18.06	19.00	18.00	
		CH 165	5825	17.98	19.00	18.00	
	802.11ac-VHT40 MCS0	CH 151	5755	18.48	19.00	18.00	95.92
		CH 159	5795	18.43	19.00	18.00	
		CH 155	5775	17.73	19.00	18.00	93.88

POWER SETTING 6

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	7.20	8.00	3.28	4.00	3.65	4.00
	CH 39	2441	6.88	8.00	3.64	4.00	3.70	4.00
	CH 76	2480	8.41	9.00	5.56	6.00	5.50	6.00
	Duty Cycle %		77.01		77.04		77.09	

POWER SETTING 6 default

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	6.06
	CH 19	2440	6.34
	CH 39	2480	7.67
Tune-up Limit			8.5
Duty Cycle %			62.96

POWER SETTING 6

Power Settings				
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1M	2M
LE(Nordic)	CH 00	2402	4.07	1.31
	CH 19	2440	3.31	0.82
	CH 39	2480	3.30	0.44
	Tune-up Limit		5	2
Duty Cycle %			63.04	33.28



Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	16.11	16.18	16.16	17.00	16.57	16.59	16.48	17.50	21.41	21.52	21.50	22.50
3GPP Rel 5	HSDPA Subtest-1	15.05	15.21	15.19	16.00	15.37	15.47	15.41	16.50	20.18	20.19	20.02	21.00
3GPP Rel 5	HSDPA Subtest-2	15.01	15.21	15.11	16.00	15.47	15.50	15.40	16.50	20.11	20.14	19.96	21.00
3GPP Rel 5	HSDPA Subtest-3	14.54	14.68	14.59	15.50	14.96	14.98	14.87	16.00	19.55	19.58	19.45	20.50
3GPP Rel 5	HSDPA Subtest-4	14.55	14.63	14.55	15.50	14.99	15.00	14.81	16.00	19.53	19.53	19.48	20.50
3GPP Rel 8	DC-HSDPA Subtest-1	15.04	15.20	15.21	16.00	15.32	15.31	15.25	16.00	20.18	20.17	19.96	21.00
3GPP Rel 8	DC-HSDPA Subtest-2	15.08	15.19	15.22	16.00	15.35	15.32	15.26	16.00	20.17	20.16	19.98	21.00
3GPP Rel 8	DC-HSDPA Subtest-3	14.56	14.70	14.73	15.50	14.84	14.82	14.77	15.50	19.67	19.66	19.49	20.50
3GPP Rel 8	DC-HSDPA Subtest-4	14.57	14.69	14.74	15.50	14.83	14.83	14.76	15.50	19.66	19.65	19.47	20.50
3GPP Rel 6	HSUPA Subtest-1	15.06	15.21	15.08	16.00	15.34	15.45	15.39	16.50	20.13	20.20	20.01	21.00
3GPP Rel 6	HSUPA Subtest-2	14.54	14.74	14.64	15.50	14.84	14.94	14.89	16.00	19.71	19.70	19.53	20.50
3GPP Rel 6	HSUPA Subtest-3	15.07	15.20	15.03	16.00	15.39	15.42	15.28	16.50	20.18	20.16	19.99	21.00
3GPP Rel 6	HSUPA Subtest-4	15.08	15.18	15.21	16.00	15.28	15.45	15.38	16.50	20.16	20.19	20.03	21.00
3GPP Rel 6	HSUPA Subtest-5	15.06	15.17	15.11	16.00	15.36	15.44	15.30	16.50	20.12	20.17	19.98	21.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.09	15.16	15.03	16.00	15.47	15.46	15.38	16.50	20.10	20.08	19.91	21.00
Attenuator			Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode			Max.	16.18			Max.	16.59			Max.	21.52	

3	QPSK	15	0	14.59	14.55	14.74	16
3	16QAM	1	0	14.84	14.80	14.59	
3	16QAM	1	8	14.74	14.86	14.66	
3	16QAM	1	14	14.80	14.64	14.80	15
3	16QAM	8	0	13.78	13.82	13.77	
3	16QAM	8	4	13.56	13.52	13.63	
3	16QAM	8	7	13.69	13.63	13.65	16
3	16QAM	15	0	13.55	13.62	13.56	
3	64QAM	1	0	14.67	14.80	14.58	
3	64QAM	1	8	14.61	14.71	14.62	15
3	64QAM	1	14	14.57	14.82	14.53	
3	64QAM	8	0	13.75	13.81	13.91	
3	64QAM	8	4	13.79	13.81	13.85	16
3	64QAM	8	7	13.59	13.66	13.56	
3	64QAM	15	0	13.66	13.64	13.60	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	15.57	15.63	15.61	17
1.4	QPSK	1	3	15.59	15.45	15.58	
1.4	QPSK	1	5	15.56	15.54	15.55	
1.4	QPSK	3	0	14.63	14.79	14.76	16
1.4	QPSK	3	1	14.59	14.74	14.59	
1.4	QPSK	3	3	14.69	14.74	14.78	
1.4	QPSK	6	0	14.50	14.55	14.73	15
1.4	16QAM	1	0	14.75	14.80	14.64	
1.4	16QAM	1	3	14.69	14.78	14.89	
1.4	16QAM	1	5	14.83	14.78	14.65	16
1.4	16QAM	3	0	13.78	13.82	13.68	
1.4	16QAM	3	1	13.71	13.70	13.66	
1.4	16QAM	3	3	13.74	13.61	13.55	15
1.4	16QAM	6	0	13.52	13.56	13.54	
1.4	64QAM	1	0	14.75	14.70	14.64	
1.4	64QAM	1	3	14.83	14.78	14.49	16
1.4	64QAM	1	5	14.62	14.69	14.74	
1.4	64QAM	3	0	13.80	13.80	13.80	
1.4	64QAM	3	1	13.62	13.81	13.67	15
1.4	64QAM	3	3	13.52	13.72	13.66	
1.4	64QAM	6	0	13.69	13.76	13.62	

3	QPSK	15	0	15.53	15.78	15.74	17
3	16QAM	1	0	15.86	15.81	15.80	
3	16QAM	1	8	15.61	15.88	15.70	
3	16QAM	1	14	15.73	15.69	15.56	16
3	16QAM	8	0	14.69	14.65	14.74	
3	16QAM	8	4	14.61	14.74	14.61	
3	16QAM	8	7	14.76	14.69	14.54	17
3	16QAM	15	0	14.74	14.62	14.54	
3	64QAM	1	0	15.68	15.76	15.55	
3	64QAM	1	8	15.76	15.86	15.58	16
3	64QAM	1	14	15.77	15.66	15.71	
3	64QAM	8	0	14.72	14.85	14.89	
3	64QAM	8	4	14.78	14.71	14.77	24.5
3	64QAM	8	7	14.72	14.72	14.66	
3	64QAM	15	0	14.81	14.72	14.80	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	16.68	16.59	16.56	23.5
1.4	QPSK	1	3	16.57	16.66	16.45	
1.4	QPSK	1	5	16.47	16.58	16.61	
1.4	QPSK	3	0	15.65	15.91	15.65	22.5
1.4	QPSK	3	1	15.58	15.82	15.60	
1.4	QPSK	3	3	15.71	15.51	15.82	
1.4	QPSK	6	0	15.56	15.75	15.74	23.5
1.4	16QAM	1	0	15.70	15.75	15.76	
1.4	16QAM	1	3	15.59	15.67	15.73	
1.4	16QAM	1	5	15.81	15.80	15.64	22.5
1.4	16QAM	3	0	14.60	14.87	14.76	
1.4	16QAM	3	1	14.76	14.60	14.59	
1.4	16QAM	3	3	14.66	14.65	14.57	23.5
1.4	16QAM	6	0	14.71	14.77	14.51	
1.4	64QAM	1	0	15.71	15.80	15.79	
1.4	64QAM	1	3	15.62	15.75	15.62	22.5
1.4	64QAM	1	5	15.76	15.51	15.66	
1.4	64QAM	3	0	14.90	14.97	14.69	
1.4	64QAM	3	1	14.68	14.72	14.89	22.5
1.4	64QAM	3	3	14.67	14.78	14.68	
1.4	64QAM	6	0	14.79	14.68	14.63	

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23050	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.80	22.88	22.85	24
10	QPSK	1	25	22.62	22.80	22.70	
10	QPSK	1	49	22.69	22.66	22.74	
10	QPSK	25	0	21.88	21.94	21.86	23
10	QPSK	25	12	21.86	21.78	21.69	
10	QPSK	25	25	21.77	21.90	21.79	
10	QPSK	50	0	21.85	21.87	21.83	23
10	16QAM	1	0	21.91	21.94	21.87	
10	16QAM	1	25	21.69	21.81	21.87	
10	16QAM	1	49	21.95	21.97	21.67	22
10	16QAM	25	0	20.71	20.88	20.74	
10	16QAM	25	12	20.77	20.87	20.62	
10	16QAM	25	25	20.87	20.74	20.79	23
10	16QAM	50	0	20.71	20.88	20.71	
10	64QAM	1	0	21.73	21.96	21.89	
10	64QAM	1	25	21.80	21.96	21.86	22
10	64QAM	1	49	21.94	21.73	21.80	
10	64QAM	25	0	20.88	20.89	21.03	
10	64QAM	25	12	20.73	21.01	20.87	22
10	64QAM	25	25	20.88	20.76	20.75	
10	64QAM	50	0	20.81	20.86	20.74	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.70	22.85	22.65	24
5	QPSK	1	12	22.57	22.71	22.68	
5	QPSK	1	24	22.72	22.76	22.77	
5	QPSK	12	0	21.89	21.90	21.94	23
5	QPSK	12	7	21.84	21.81	21.86	
5	QPSK	12	13	21.86	21.79	21.93	
5	QPSK	25	0	21.69	21.77	21.84	23
5	16QAM	1	0	21.89	22.09	21.91	
5	16QAM	1	12	21.72	21.80	22.01	
5	16QAM	1	24	21.82	21.95	21.75	22
5	16QAM	12	0	20.79	21.03	20.92	
5	16QAM	12	7	20.83	20.83	20.72	
5	16QAM	12	13	20.94	20.76	20.69	23
5	16QAM	25	0	20.74	20.94	20.79	
5	64QAM	1	0	21.83	21.92	21.76	
5	64QAM	1	12	21.84	21.93	21.81	22
5	64QAM	1	24	21.84	21.71	21.85	
5	64QAM	12	0	20.89	20.93	20.92	
5	64QAM	12	7	20.84	20.79	21.02	22
5	64QAM	12	13	20.90	20.90	20.82	
5	64QAM	25	0	20.96	20.85	20.74	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.69	22.83	22.62	24
3	QPSK	1	8	22.78	22.67	22.67	
3	QPSK	1	14	22.79	22.72	22.84	
3	QPSK	8	0	21.84	22.00	21.82	23
3	QPSK	8	4	21.65	21.88	21.72	
3	QPSK	8	7	21.85	21.76	21.74	
3	QPSK	15	0	21.83	21.83	21.84	23
3	16QAM	1	0	22.02	22.06	21.98	
3	16QAM	1	8	21.72	21.99	22.05	
3	16QAM	1	14	21.85	21.91	21.81	22
3	16QAM	8	0	20.75	20.97	20.81	
3	16QAM	8	4	20.90	20.87	20.72	
3	16QAM	8	7	20.94	20.94	20.72	23
3	16QAM	15	0	20.79	20.80	20.68	
3	64QAM	1	0	21.79	21.81	21.83	
3	64QAM	1	8	21.89	22.01	21.66	22
3	64QAM	1	14	21.85	21.70	21.93	
3	64QAM	8	0	21.00	21.03	21.00	
3	64QAM	8	4	20.69	20.82	20.83	22
3	64QAM	8	7	20.88	20.91	20.66	
3	64QAM	15	0	20.83	21.00	20.79	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.65	22.84	22.82	24
1.4	QPSK	1	3	22.54	22.72	22.67	
1.4	QPSK	1	5	22.63	22.69	22.76	
1.4	QPSK	3	0	21.75	22.07	21.93	23
1.4	QPSK	3	1	21.74	21.78	21.88	
1.4	QPSK	3	3	21.83	21.76	21.87	
1.4	QPSK	6	0	21.75	21.79	21.83	23
1.4	16QAM	1	0	21.91	22.02	21.98	
1.4	16QAM	1	3	21.80	22.00	21.98	
1.4	16QAM	1	5	21.98	21.95	21.86	22
1.4	16QAM	3	0	20.90	20.82	20.87	
1.4	16QAM	3	1	20.78	20.74	20.72	
1.4	16QAM	3	3	20.89	20.95	20.78	23
1.4	16QAM	6	0	20.69	20.73	20.68	
1.4	64QAM	1	0	21.70	21.99	21.90	
1.4	64QAM	1	3	21.99	21.81	21.66	22
1.4	64QAM	1	5	21.87	21.91	21.86	
1.4	64QAM	3	0	20.90	20.87	21.02	
1.4	64QAM	3	1	20.69	21.02	20.95	22
1.4	64QAM	3	3	20.89	20.74	20.88	
1.4	64QAM	6	0	20.75	20.77	20.77	

Band 13(700MHz Band) (dBm) Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0	22.40			23.5
10	QPSK	1	25	22.32			
10	QPSK	1	49	22.25			
10	QPSK	25	0	21.41			22.5
10	QPSK	25	12	21.38			
10	QPSK	25	25	21.27			
10	QPSK	50	0	21.30			22.5
10	16QAM	1	0	21.40			
10	16QAM	1	25	21.31			
10	16QAM	1	49	21.35			21.5
10	16QAM	25	0	20.37			
10	16QAM	25	12	20.26			
10	16QAM	25	25	20.29			22.5
10	16QAM	50	0	20.23			
10	64QAM	1	0	21.36			
10	64QAM	1	25	21.19			21.5
10	64QAM	1	49	21.22			
10	64QAM	25	0	20.43			
10	64QAM	25	12	20.38			21.5
10	64QAM	25	25	20.38			
10	64QAM	50	0	20.42			
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	22.35	22.38	22.28	23.5
5	QPSK	1	12	22.11	22.20	22.28	
5	QPSK	1	24	22.33	22.37	22.37	
5	QPSK	12	0	21.33	21.35	21.37	22.5
5	QPSK	12	7	21.32	21.49	21.25	
5	QPSK	12	13	21.23	21.29	21.40	
5	QPSK	25	0	21.35	21.31	21.31	22.5
5	16QAM	1	0	21.37	21.55	21.38	
5	16QAM	1	12	21.27	21.45	21.38	
5	16QAM	1	24	21.40	21.45	21.21	21.5
5	16QAM	12	0	20.26	20.40	20.25	
5	16QAM	12	7	20.24	20.28	20.14	
5	16QAM	12	13	20.38	20.44	20.39	22.5
5	16QAM	25	0	20.33	20.24	20.29	
5	64QAM	1	0	21.23	21.52	21.36	
5	64QAM	1	12	21.32	21.48	21.18	21.5
5	64QAM	1	24	21.30	21.38	21.18	
5	64QAM	12	0	20.45	20.40	20.49	
5	64QAM	12	7	20.43	20.49	20.38	21.5
5	64QAM	12	13	20.29	20.30	20.27	
5	64QAM	25	0	20.48	20.28	20.22	

Band 14 (700MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23330			Tune-up limit (dBm)
Frequency (MHz)				793			
10	QPSK	1	0	20.69			21.5
10	QPSK	1	25	20.54			
10	QPSK	1	49	20.53			
10	QPSK	25	0	19.71			20.5
10	QPSK	25	12	19.55			
10	QPSK	25	25	19.61			
10	QPSK	50	0	19.60			20.5
10	16QAM	1	0	19.68			
10	16QAM	1	25	19.59			
10	16QAM	1	49	19.54			19.5
10	16QAM	25	0	18.72			
10	16QAM	25	12	18.58			
10	16QAM	25	25	18.63			19.5
10	16QAM	50	0	18.62			
10	64QAM	1	0	19.65			
10	64QAM	1	25	19.54			20.5
10	64QAM	1	49	19.57			
10	64QAM	25	0	18.77			
10	64QAM	25	12	18.71			19.5
10	64QAM	25	25	18.63			
10	64QAM	50	0	18.70			
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	20.58	20.64	20.57	24.5
5	QPSK	1	12	20.52	20.60	20.49	
5	QPSK	1	24	20.50	20.57	20.51	
5	QPSK	12	0	19.51	19.61	19.62	23.5
5	QPSK	12	7	19.38	19.58	19.64	
5	QPSK	12	13	19.46	19.43	19.69	
5	QPSK	25	0	19.45	19.59	19.51	23.5
5	16QAM	1	0	19.69	19.69	19.55	
5	16QAM	1	12	19.55	19.69	19.60	
5	16QAM	1	24	19.63	19.64	19.59	22.5
5	16QAM	12	0	18.63	18.56	18.70	
5	16QAM	12	7	18.67	18.49	18.52	
5	16QAM	12	13	18.47	18.73	18.49	22.5
5	16QAM	25	0	18.56	18.70	18.58	
5	64QAM	1	0	19.56	19.57	19.54	
5	64QAM	1	12	19.73	19.76	19.41	23.5
5	64QAM	1	24	19.59	19.54	19.47	
5	64QAM	12	0	18.75	18.69	18.74	
5	64QAM	12	7	18.48	18.56	18.58	22.5
5	64QAM	12	13	18.57	18.63	18.59	
5	64QAM	25	0	18.73	18.68	18.56	

Band 17 (700MHz Band) (dBm) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	Tune-up limit (dBm)
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.85	22.80	22.79	24
10	QPSK	1	25	22.77	22.64	22.66	
10	QPSK	1	49	22.59	22.64	22.75	
10	QPSK	25	0	21.82	22.00	21.81	23
10	QPSK	25	12	21.64	21.75	21.86	
10	QPSK	25	25	21.67	21.74	21.94	
10	QPSK	50	0	21.81	21.83	21.82	23
10	16QAM	1	0	21.81	21.99	21.80	
10	16QAM	1	25	21.67	21.80	21.87	
10	16QAM	1	49	21.85	21.76	21.70	22
10	16QAM	25	0	20.65	20.78	20.74	
10	16QAM	25	12	20.82	20.71	20.82	
10	16QAM	25	25	20.77	20.90	20.76	23
10	16QAM	50	0	20.78	20.81	20.62	
10	64QAM	1	0	21.70	21.84	21.85	
10	64QAM	1	25	21.80	21.86	21.82	22
10	64QAM	1	49	21.85	21.82	21.66	
10	64QAM	25	0	20.90	21.04	20.95	
10	64QAM	25	12	20.85	20.95	21.02	22
10	64QAM	25	25	20.83	20.76	20.70	
10	64QAM	50	0	20.91	20.87	20.81	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.82	22.78	22.74	24
5	QPSK	1	12	22.63	22.57	22.67	
5	QPSK	1	24	22.58	22.68	22.71	
5	QPSK	12	0	21.90	22.00	21.90	23
5	QPSK	12	7	21.76	21.76	21.84	
5	QPSK	12	13	21.78	21.75	21.83	
5	QPSK	25	0	21.64	21.80	21.74	23
5	16QAM	1	0	21.94	21.90	21.90	
5	16QAM	1	12	21.71	21.89	21.91	
5	16QAM	1	24	21.77	21.87	21.77	22
5	16QAM	12	0	20.65	20.89	20.92	
5	16QAM	12	7	20.72	20.69	20.60	
5	16QAM	12	13	20.67	20.84	20.87	23
5	16QAM	25	0	20.84	20.81	20.65	
5	64QAM	1	0	21.80	21.97	21.70	
5	64QAM	1	12	21.92	22.00	21.80	22
5	64QAM	1	24	21.81	21.68	21.66	
5	64QAM	12	0	20.84	20.94	20.93	
5	64QAM	12	7	20.89	20.79	20.77	22
5	64QAM	12	13	20.77	20.68	20.78	
5	64QAM	25	0	20.88	20.91	20.72	

3	QPSK	15	0	14.71	14.62	14.80	16
3	16QAM	1	0	14.71	14.86	14.69	
3	16QAM	1	8	14.65	14.87	14.79	
3	16QAM	1	14	14.81	14.76	14.72	15
3	16QAM	8	0	13.58	13.80	13.62	
3	16QAM	8	4	13.79	13.74	13.69	
3	16QAM	8	7	13.83	13.80	13.63	
3	16QAM	15	0	13.68	13.60	13.76	
3	64QAM	1	0	14.62	14.94	14.67	16
3	64QAM	1	8	14.79	14.91	14.69	
3	64QAM	1	14	14.78	14.66	14.75	
3	64QAM	8	0	13.93	13.96	13.75	15
3	64QAM	8	4	13.68	13.88	13.90	
3	64QAM	8	7	13.72	13.64	13.76	
3	64QAM	15	0	13.64	13.76	13.72	
Channel				26047	26365	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	15.69	15.74	15.66	17
1.4	QPSK	1	3	15.65	15.60	15.59	
1.4	QPSK	1	5	15.59	15.61	15.52	
1.4	QPSK	3	0	14.67	14.76	14.82	
1.4	QPSK	3	1	14.57	14.75	14.69	
1.4	QPSK	3	3	14.73	14.76	14.77	
1.4	QPSK	6	0	14.57	14.77	14.82	16
1.4	16QAM	1	0	14.76	14.86	14.79	15
1.4	16QAM	1	3	14.76	14.92	14.84	
1.4	16QAM	1	5	14.79	14.74	14.68	
1.4	16QAM	3	0	13.60	13.83	13.70	
1.4	16QAM	3	1	13.58	13.60	13.59	
1.4	16QAM	3	3	13.66	13.76	13.65	
1.4	16QAM	6	0	13.66	13.61	13.53	15
1.4	64QAM	1	0	14.83	14.81	14.62	16
1.4	64QAM	1	3	14.89	14.87	14.67	
1.4	64QAM	1	5	14.70	14.73	14.81	
1.4	64QAM	3	0	13.90	13.82	13.76	
1.4	64QAM	3	1	13.73	13.83	13.85	
1.4	64QAM	3	3	13.54	13.72	13.73	
1.4	64QAM	6	0	13.75	13.89	13.66	15

Band 26 for FCC (dBm) (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	21.18	21.21	21.13	22.5
15	QPSK	1	37	21.12	21.15	21.10	
15	QPSK	1	74	20.94	21.06	20.96	
15	QPSK	36	0	20.28	20.34	20.19	21.5
15	QPSK	36	20	19.96	20.14	20.15	
15	QPSK	36	39	20.17	20.02	20.08	
15	QPSK	75	0	20.15	20.19	20.11	21.5
15	16QAM	1	0	20.26	20.41	20.16	
15	16QAM	1	37	20.10	20.16	20.30	
15	16QAM	1	74	20.19	20.11	20.08	20.5
15	16QAM	36	0	19.23	19.18	19.19	
15	16QAM	36	20	19.13	18.98	19.11	
15	16QAM	36	39	19.10	19.14	19.01	21.5
15	16QAM	75	0	19.08	19.08	19.04	
15	64QAM	1	0	20.17	20.14	20.10	
15	64QAM	1	37	20.09	20.21	20.20	20.5
15	64QAM	1	74	20.19	20.21	20.17	
15	64QAM	36	0	19.37	19.29	19.18	
15	64QAM	36	20	19.11	19.27	19.24	20.5
15	64QAM	36	39	19.18	19.07	19.04	
15	64QAM	75	0	19.29	19.06	19.02	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	21.15	21.17	21.14	22.5
10	QPSK	1	25	20.92	20.93	20.87	
10	QPSK	1	49	21.00	21.03	21.04	
10	QPSK	25	0	20.06	20.28	20.08	21.5
10	QPSK	25	12	20.15	20.14	20.19	
10	QPSK	25	25	19.99	20.21	20.08	
10	QPSK	50	0	20.18	20.23	20.02	21.5
10	16QAM	1	0	20.34	20.21	20.28	
10	16QAM	1	25	20.00	20.17	20.13	
10	16QAM	1	49	20.28	20.24	20.15	20.5
10	16QAM	25	0	19.16	19.29	19.09	
10	16QAM	25	12	19.09	19.02	19.01	
10	16QAM	25	25	19.03	19.17	19.04	21.5
10	16QAM	50	0	19.06	19.02	19.12	
10	64QAM	1	0	20.18	20.36	20.21	
10	64QAM	1	25	20.12	20.19	20.08	20.5
10	64QAM	1	49	20.14	20.06	20.01	
10	64QAM	25	0	19.25	19.37	19.25	
10	64QAM	25	12	19.19	19.24	19.32	20.5
10	64QAM	25	25	19.06	18.99	19.01	
10	64QAM	50	0	19.12	19.08	19.19	
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	21.16	21.16	21.08	22.5
5	QPSK	1	12	20.93	21.05	20.95	
5	QPSK	1	24	21.02	20.97	20.97	
5	QPSK	12	0	20.17	20.35	20.11	21.5
5	QPSK	12	7	20.19	20.29	20.18	
5	QPSK	12	13	19.96	20.22	20.27	
5	QPSK	25	0	19.95	20.19	20.20	21.5
5	16QAM	1	0	20.11	20.43	20.14	
5	16QAM	1	12	20.19	20.30	20.32	
5	16QAM	1	24	20.26	20.15	20.16	20.5
5	16QAM	12	0	19.00	19.14	19.18	
5	16QAM	12	7	19.03	19.20	19.16	
5	16QAM	12	13	19.20	19.24	18.99	21.5
5	16QAM	25	0	19.00	19.13	18.98	
5	64QAM	1	0	20.21	20.28	20.20	
5	64QAM	1	12	20.27	20.15	20.04	20.5
5	64QAM	1	24	20.06	20.11	20.04	
5	64QAM	12	0	19.19	19.42	19.28	
5	64QAM	12	7	19.00	19.11	19.25	20.5
5	64QAM	12	13	18.99	19.17	19.12	
5	64QAM	25	0	19.25	19.14	19.08	
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	21.16	21.19	21.13	22.5
3	QPSK	1	8	20.91	21.15	20.89	
3	QPSK	1	14	21.10	21.02	21.10	
3	QPSK	8	0	20.25	20.27	20.15	21.5
3	QPSK	8	4	19.96	20.29	20.21	
3	QPSK	8	7	20.00	19.98	20.09	
3	QPSK	15	0	20.20	20.18	20.19	21.5
3	16QAM	1	0	20.19	20.23	20.12	
3	16QAM	1	8	20.15	20.14	20.36	
3	16QAM	1	14	20.16	20.14	20.10	20.5
3	16QAM	8	0	19.02	19.23	19.21	
3	16QAM	8	4	19.10	19.12	19.03	
3	16QAM	8	7	19.07	19.11	19.22	21.5
3	16QAM	15	0	19.11	19.23	18.99	
3	64QAM	1	0	20.13	20.35	20.01	
3	64QAM	1	8	20.29	20.09	20.15	20.5
3	64QAM	1	14	20.03	20.05	20.05	
3	64QAM	8	0	19.37	19.21	19.22	
3	64QAM	8	4	19.10	19.32	19.16	20.5
3	64QAM	8	7	18.96	19.05	19.04	
3	64QAM	15	0	19.16	19.13	19.21	
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	21.15	21.18	21.09	22.5
1.4	QPSK	1	3	20.99	20.95	21.06	
1.4	QPSK	1	5	21.07	21.08	21.13	
1.4	QPSK	3	0	20.12	20.37	20.11	
1.4	QPSK	3	1	20.14	20.27	20.18	
1.4	QPSK	3	3	20.12	20.16	20.11	

Band 30 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				27710	27710		
Frequency (MHz)				2310			
10	QPSK	1	0	14.71			15.5
10	QPSK	1	25	14.64			
10	QPSK	1	49	14.62			
10	QPSK	25	0	13.66			14.5
10	QPSK	25	12	13.59			
10	QPSK	25	25	13.54			
10	QPSK	50	0	13.56			14.5
10	16QAM	1	0	13.78			
10	16QAM	1	25	13.73			
10	16QAM	1	49	13.51			13.5
10	16QAM	25	0	12.52			
10	16QAM	25	12	12.44			
10	16QAM	25	25	12.54			14.5
10	16QAM	50	0	12.67			
10	64QAM	1	0	13.69			
10	64QAM	1	25	13.59			13.5
10	64QAM	1	49	13.54			
10	64QAM	25	0	12.73			
10	64QAM	25	12	12.52			14.5
10	64QAM	25	25	12.61			
10	64QAM	50	0	12.52			
Channel				27685	27710	27735	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	14.61	14.66	14.56	15.5
5	QPSK	1	12	14.55	14.53	14.49	
5	QPSK	1	24	14.47	14.48	14.57	
5	QPSK	12	0	13.43	13.57	13.69	14.5
5	QPSK	12	7	13.36	13.49	13.51	
5	QPSK	12	13	13.36	13.47	13.51	
5	QPSK	25	0	13.35	13.66	13.61	14.5
5	16QAM	1	0	13.62	13.69	13.47	
5	16QAM	1	12	13.45	13.62	13.60	
5	16QAM	1	24	13.53	13.53	13.48	13.5
5	16QAM	12	0	12.55	12.53	12.49	
5	16QAM	12	7	12.46	12.41	12.35	
5	16QAM	12	13	12.58	12.57	12.38	14.5
5	16QAM	25	0	12.46	12.52	12.40	
5	64QAM	1	0	13.45	13.52	13.41	
5	64QAM	1	12	13.62	13.64	13.50	13.5
5	64QAM	1	24	13.57	13.43	13.52	
5	64QAM	12	0	12.69	12.76	12.64	
5	64QAM	12	7	12.53	12.66	12.65	12.5
5	64QAM	12	13	12.41	12.44	12.56	
5	64QAM	25	0	12.59	12.49	12.57	

1.4	QPSK	6	0	20.02	20.13	20.19	21.5
1.4	16QAM	1	0	20.12	20.36	20.11	21.5
1.4	16QAM	1	3	20.23	20.18	20.25	
1.4	16QAM	1	5	20.27	20.28	20.05	
1.4	16QAM	3	0	19.22	19.23	19.14	
1.4	16QAM	3	1	19.23	19.13	19.07	
1.4	16QAM	3	3	19.22	19.28	19.03	
1.4	16QAM	6	0	19.07	19.08	19.06	20.5
1.4	64QAM	1	0	20.07	20.34	20.06	21.5
1.4	64QAM	1	3	20.15	20.31	20.20	
1.4	64QAM	1	5	20.14	20.16	19.99	
1.4	64QAM	3	0	19.28	19.29	19.33	
1.4	64QAM	3	1	19.22	19.19	19.13	
1.4	64QAM	3	3	19.13	19.23	19.08	
1.4	64QAM	6	0	19.23	19.28	19.10	20.5

3	QPSK	15	0	15.59	15.55	15.74	17
3	16QAM	1	0	15.84	15.80	15.59	
3	16QAM	1	8	15.74	15.86	15.66	
3	16QAM	1	14	15.80	15.64	15.60	16
3	16QAM	8	0	14.78	14.82	14.77	
3	16QAM	8	4	14.56	14.52	14.63	
3	16QAM	8	7	14.69	14.63	14.65	17
3	16QAM	15	0	14.55	14.62	14.56	
3	64QAM	1	0	15.67	15.80	15.58	
3	64QAM	1	8	15.61	15.71	15.62	16
3	64QAM	1	14	15.57	15.82	15.53	
3	64QAM	8	0	14.75	14.81	14.91	
3	64QAM	8	4	14.79	14.81	14.85	17
3	64QAM	8	7	14.59	14.66	14.56	
3	64QAM	15	0	14.66	14.64	14.60	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	16.57	16.74	16.66	18
1.4	QPSK	1	3	16.59	16.45	16.58	
1.4	QPSK	1	5	16.56	16.54	16.55	
1.4	QPSK	3	0	15.63	15.79	15.76	
1.4	QPSK	3	1	15.59	15.74	15.59	
1.4	QPSK	3	3	15.69	15.74	15.78	
1.4	QPSK	6	0	15.50	15.55	15.73	17
1.4	16QAM	1	0	15.75	15.80	15.64	17
1.4	16QAM	1	3	15.69	15.78	15.69	
1.4	16QAM	1	5	15.83	15.78	15.65	
1.4	16QAM	3	0	14.78	14.82	14.68	
1.4	16QAM	3	1	14.71	14.70	14.66	
1.4	16QAM	3	3	14.74	14.61	14.55	
1.4	16QAM	6	0	14.52	14.56	14.54	16
1.4	64QAM	1	0	15.75	15.70	15.64	17
1.4	64QAM	1	3	15.83	15.78	15.49	
1.4	64QAM	1	5	15.62	15.69	15.74	
1.4	64QAM	3	0	14.80	14.80	14.80	
1.4	64QAM	3	1	14.62	14.81	14.67	
1.4	64QAM	3	3	14.52	14.72	14.66	
1.4	64QAM	6	0	14.69	14.76	14.62	16

CA_7C											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	0	0	1	0	11.76	13.00
21100	21001	21199	QPSK	1	0	0	0	1	0	11.79	13.00
21350	21152	21350	QPSK	1	0	0	0	1	0	11.65	13.00
20850	20850	21048	16QAM	1	0	0	0	1	0	11.13	12.50
21100	21001	21199	16QAM	1	0	0	0	1	0	11.22	12.50
21350	21152	21350	16QAM	1	0	0	0	1	0	11.04	12.50
20850	20850	21048	64QAM	1	0	0	0	1	0	10.83	12.00
21100	21001	21199	64QAM	1	0	0	0	1	0	10.91	12.00
21350	21152	21350	64QAM	1	0	0	0	1	0	10.80	12.00
20850	20850	21048	QPSK	50	0	0	0	1	0	10.92	12.00
21100	21001	21199	QPSK	50	0	0	0	1	0	10.97	12.00
21350	21152	21350	QPSK	50	0	0	0	1	0	10.86	12.00

CA_41C_PC 3											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	0	0	1	0	13.67	15.00
40521	40521	40719	QPSK	1	0	0	0	1	0	13.75	15.00
41292	41292	41490	QPSK	1	0	0	0	1	0	13.73	15.00
39750	39750	39948	16QAM	1	0	0	0	1	0	13.38	14.50
40521	40521	40719	16QAM	1	0	0	0	1	0	13.46	14.50
41292	41292	41490	16QAM	1	0	0	0	1	0	13.47	14.50
39750	39750	39948	64QAM	1	0	0	0	1	0	12.78	14.00
40521	40521	40719	64QAM	1	0	0	0	1	0	12.84	14.00
41292	41292	41490	64QAM	1	0	0	0	1	0	12.85	14.00
39750	39750	39948	QPSK	50	0	0	0	1	0	12.75	14.00
40521	40521	40719	QPSK	50	0	0	0	1	0	12.79	14.00
41292	41292	41490	QPSK	50	0	0	0	1	0	12.83	14.00

2CC LTE Downlink												
Configure	CA Configuration	PCC					SCC				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band & Inter-band	CA_12A-30A	12	10	23095	707.5	QPSK/1#0	30	10	27710	2310.0	22.95	23.38
	CA_25A-25A	25	20	26140	1860	QPSK/1#0	25	20	26590	1905.0	23.88	23.42
	CA_25A-26A	25	10	26140	1860	QPSK/1#0	26	10	26865	831.5	23.85	23.42
	CA_26A-41A	26	10	26865	831.5	QPSK/1#0	41	20	38750	2310.0	23.43	23.88
	CA_29A_30A	30	10	27710	2310.0	QPSK/1#0	29	10	9715	722.5	23.22	23.71
	CA_2A-12A	2	10	18700	1860	QPSK/1#0	12	10	23095	707.5	22.59	23.18
	CA_2A-13A	2	10	18700	1860	QPSK/1#0	13	10	23230	782.0	22.53	23.18
	CA_2A-17A	2	10	18700	1860	QPSK/1#0	17	10	23790	710.0	22.55	23.18
	CA_2A-29A	2	10	18700	1860	QPSK/1#0	29	10	9715	722.5	22.51	23.18
	CA_2A-2A	2	10	18700	1860	QPSK/1#0	2	10	19100	1900.0	22.60	23.18
	CA_2A-4A	2	10	18700	1860	QPSK/1#0	4	10	20050	1720.0	22.56	23.18
	CA_2A-5A	2	10	18700	1860	QPSK/1#0	5	10	20450	829.0	22.54	23.18
	CA_2C	2	20	18801	1870.1	QPSK/1#0	2	20	18999	1889.9	22.61	23.18
	CA_41A-41A	41	20	39750	2506.0	QPSK/1#0	41	20	41490	2680.0	25.19	25.90
	CA_41C	41	20	40521	2583.1	QPSK/1#0	41	20	40719	2602.9	25.22	25.90
	CA_4A-12A	4	10	20050	1720.0	QPSK/1#0	12	10	23095	707.5	22.67	23.23
	CA_4A-13A	4	10	20050	1720.0	QPSK/1#0	13	10	23230	782.0	22.64	23.23
	CA_4A-17A	4	10	20050	1720.0	QPSK/1#0	17	10	23790	710.0	22.65	23.23
	CA_4A-29A	4	10	20050	1720.0	QPSK/1#0	29	10	9715	722.5	22.58	23.23
	CA_4A-4A	4	20	20050	1720.0	QPSK/1#0	4	20	20300	1745.0	22.55	23.23
	CA_4A-5A	4	10	20050	1720.0	QPSK/1#0	5	10	20450	829.0	22.60	23.23
	CA_5A-30A	5	10	20450	829.0	QPSK/1#0	30	10	27710	2310.0	22.51	23.37
	CA_5A-7A	5	10	20450	829.0	QPSK/1#0	7	20	21350	2560.0	22.52	23.37
	CA_7A-7A	7	20	20850	2510	QPSK/1#0	7	20	21350	2560.0	22.63	23.23
	CA_7C	7	20	21001	2525.1	QPSK/1#0	7	20	21199	2544.9	22.66	23.23
	CA_5A-5A	5	10	20450	829	QPSK/1#0	5	10	20600	844.0	22.48	23.37
	CA_5B	5	10	20476	831.6	QPSK/1#0	5	10	20575	841.5	22.24	23.37
	CA_12A-66A	12	10	23095	707.5	QPSK/1#0	66	20	67236	2190.0	22.77	23.38
	CA_13A-66A	13	10	23230	782.0	QPSK/1#0	66	20	67236	2190.0	22.81	23.40
	CA_66A_29A	66	10	132072	1720	QPSK/1#0	29	10	9715	722.5	22.75	23.31
	CA_2A-66A	2	20	18700	1860	QPSK/1#0	66	20	67236	2190.0	22.58	23.23
	CA_5A-66A	5	10	20450	829.0	QPSK/1#0	66	20	67236	2190.0	22.47	23.37
	CA_66A-66A	66	20	132072	1720	QPSK/1#0	66	20	67236	2190.0	22.64	23.31
	CA_66B	66	10	132373	1750.1	QPSK/1#0	66	10	132472	1760.0	22.68	23.31
	CA_66C	66	20	132323	1745.1	QPSK/1#0	66	20	132521	1764.9	22.67	23.31
	CA_5A-41A	5	10	20450	829	QPSK/1#0	41	10	38750	2310.0	22.41	23.37
	CA_66A-71A	66	10	132072	1720	QPSK/1#0	71	10	133297	680.5	22.70	23.31
	CA_4A-71A	4	10	20050	1720.0	QPSK/1#0	71	10	133297	680.5	22.63	23.23
	CA_2A-71A	2	10	18700	1860	QPSK/1#0	71	10	133297	680.5	22.61	23.23
	CA_14A-66A	14	10	23330	793	QPSK/1#0	66	20	67236	2190.0	23.12	23.69
	CA_14A-30A	14	10	23330	793	QPSK/1#0	30	10	27710	2310.0	23.08	23.69
	CA_2A-14A	2	10	18700	1860	QPSK/1#0	2	10	18898	1879.8	22.64	23.23

2.4GHz WLAN ANT 1

2.4GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	21.38	22.50	22.00	89.68
		CH 6	2437	21.51	22.50	22.00	
		CH 11	2462	21.52	22.50	22.00	
	802.11g 6Mbps	CH 1	2412	21.19	22.00	22.00	98.35
		CH 6	2437	21.14	22.00	22.00	
		CH 11	2462	21.19	22.00	22.00	
	802.11n-HT20 MCS0	CH 1	2412	21.03	22.00	22.00	98.23
		CH 6	2437	21.11	22.00	22.00	
		CH 11	2462	21.18	22.00	22.00	
	802.11n-HT40 MCS0	CH 3	2432	21.52	22.50	22.00	94.89
		CH 6	2437	21.62	22.50	22.00	
		CH 9	2452	21.44	22.50	22.00	

5GHz WLAN ANT 1

5.2GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 36	5180	16.85	18.00	18.00	98.54
		CH 44	5220	17.00	18.00	18.00	
		CH 48	5240	16.84	18.00	18.00	
	802.11n-HT20 MCS0	CH 36	5180	16.84	18.00	18.00	98.44
		CH 44	5220	16.96	18.00	18.00	
		CH 48	5240	16.76	18.00	18.00	
	802.11n-HT40 MCS0	CH 38	5190	17.10	18.00	18.00	96.88
		CH 46	5230	17.34	18.00	18.00	
		CH 36	5180	16.86	18.00	18.00	
	802.11ac-VHT20 MCS0	CH 44	5220	17.08	18.00	18.00	98.45
		CH 48	5240	16.95	18.00	18.00	
		CH 38	5190	17.17	18.00	18.00	
	802.11ac-VHT40 MCS0	CH 46	5230	17.25	18.00	18.00	96.91
		CH 42	5210	17.31	18.00	18.00	

5GHz WLAN ANT 1

5.3GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 52	5260	17.25	18.00	18.00	98.54
		CH 60	5300	16.97	18.00	18.00	
		CH 64	5320	16.78	18.00	18.00	
	802.11n-HT20 MCS0	CH 52	5260	17.02	18.00	18.00	98.44
		CH 60	5300	16.85	18.00	18.00	
		CH 64	5320	16.60	18.00	18.00	
	802.11n-HT40 MCS0	CH 54	5270	17.31	18.00	18.00	95.88
		CH 62	5310	17.29	18.00	18.00	
		CH 52	5260	17.22	18.00	18.00	
	802.11ac-VHT20 MCS0	CH 60	5300	17.04	18.00	18.00	98.45
		CH 64	5320	16.90	18.00	18.00	
		CH 54	5270	17.20	18.00	18.00	
	802.11ac-VHT40 MCS0	CH 62	5310	17.18	18.00	18.00	96.91
		CH 58	5290	17.23	18.00	18.00	

5GHz WLAN ANT 1

5.5GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 100	5500	16.14	19.00	18.00	98.54
		CH 120	5600	16.33	19.00	18.00	
		CH 144	5720	16.16	19.00	18.00	
	802.11n-HT20 MCS0	CH 100	5500	17.92	19.00	18.00	98.44
		CH 120	5600	17.92	19.00	18.00	
		CH 144	5720	18.00	19.00	18.00	
	802.11n-HT40 MCS0	CH 102	5510	18.32	19.00	18.00	96.88
		CH 126	5630	18.56	19.00	18.00	
		CH 142	5710	18.62	19.00	18.00	
	802.11ac-VHT20 MCS0	CH 100	5500	18.12	19.00	18.00	98.45
		CH 120	5600	18.28	19.00	18.00	
		CH 144	5720	18.17	19.00	18.00	
	802.11ac-VHT40 MCS0	CH 102	5510	18.66	20.00	18.00	96.91
		CH 126	5630	18.93	20.00	18.00	
		CH 142	5710	18.66	20.00	18.00	
	802.11ac-VHT80 MCS0	CH 106	5630	18.16	19.50	18.00	93.88
		CH 122	5610	18.67	19.50	18.00	

5GHz WLAN ANT 1

5.8GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 148	5745	17.85	19.00	18.00	98.07
		CH 157	5785	16.19	19.00	18.00	
		CH 165	5825	16.28	19.00	18.00	
	802.11n-HT20 MCS0	CH 148	5745	17.58	19.00	18.00	97.93
		CH 157	5785	17.59	19.00	18.00	
		CH 165	5825	18.06	19.00	18.00	
	802.11n-HT40 MCS0	CH 151	5755	18.33	19.00	18.00	96.88
		CH 159	5795	18.40	19.00	18.00	
		CH 148	5745	17.80	19.00	18.00	
	802.11ac-VHT20 MCS0	CH 157	5785	18.06	19.00	18.00	97.94
		CH 165	5825	17.98	19.00	18.00	
		CH 151	5755	18.48	19.00	18.00	
	802.11ac-VHT40 MCS0	CH 159	5795	18.43	19.00	18.00	95.92
		CH 155	5775	17.73	19.00	18.00	

POWER SETTING 6

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	7.20	8.00	3.28	4.00	3.65	4.00
	CH 39	2441	6.88	8.00	3.64	4.00	3.70	4.00
	CH 76	2480	8.41	9.00	5.56	6.00	5.50	6.00
	Duty Cycle %		77.01		77.04		77.09	

POWER SETTING 6 default

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	6.06
	CH 19	2440	6.34
	CH 39	2480	7.67
Tune-up Limit			8.5
Duty Cycle %			62.96

POWER SETTING 6

Power Settings				
Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1M	2M
LE(Nordic)	CH 00	2402	4.07	1.31
	CH 19	2440	3.31	0.82
	CH 39	2480	3.30	0.44
	Tune-up Limit		5	2
Duty Cycle %			63.04	33.28