



REPORT No.: SZ22070205S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacture document.

GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		128	189	251		128	189	251	
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot		27.31	27.27	27.50	28.00	18.31	18.27	18.50	19.00
GPRS 1 Tx slot		27.32	27.29	27.52	28.00	18.32	18.29	18.52	19.00
GPRS 2 Tx slots		27.13	27.12	27.36	28.00	21.13	21.12	21.36	22.00
GPRS 3 Tx slots		27.33	27.21	27.20	28.00	23.07	22.95	22.94	23.74
GPRS 4 Tx slots		26.55	26.54	26.56	27.00	23.55	23.54	23.56	24.00
EDGE 1 Tx slot		25.33	25.23	25.37	26.00	16.33	16.23	16.37	17.00
EDGE 2 Tx slots		24.76	24.94	24.52	25.50	18.76	18.94	18.52	19.50
EDGE 3 Tx slots		24.90	24.96	24.69	25.50	20.64	20.70	20.43	21.24
EDGE 4 Tx slots		24.80	24.89	24.84	25.50	21.80	21.89	21.84	22.50
Antenna		Ant 2							

GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		128	189	251		128	189	251	
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot		30.68	30.67	30.79	32.00	21.68	21.67	21.79	23.00
GPRS 1 Tx slot		30.71	30.69	30.82	32.00	21.71	21.69	21.82	23.00
GPRS 2 Tx slots		30.57	30.64	30.74	32.00	24.57	24.64	24.74	26.00
GPRS 3 Tx slots		30.51	30.63	30.68	32.00	26.25	26.37	26.42	27.74
GPRS 4 Tx slots		30.11	30.23	30.42	31.00	27.11	27.23	27.42	28.00
EDGE 1 Tx slot		24.35	24.55	24.78	25.50	15.35	15.55	15.78	16.50
EDGE 2 Tx slots		24.52	24.56	24.61	25.50	18.52	18.56	18.61	19.50
EDGE 3 Tx slots		24.49	24.37	24.50	25.50	20.23	20.11	20.24	21.24
EDGE 4 Tx slots		24.26	24.28	24.22	25.50	21.26	21.28	21.22	22.50
Antenna		Ant 0							

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel		512	661	810		512	661	810	
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot		29.43	29.45	29.41	30.00	20.43	20.45	20.41	21.00
GPRS 1 Tx slot		29.42	29.47	29.43	30.00	20.42	20.47	20.43	21.00
GPRS 2 Tx slots		27.32	27.44	27.41	28.00	21.32	21.44	21.41	22.00
GPRS 3 Tx slots		26.49	26.51	26.39	27.00	22.23	22.25	22.13	22.74
GPRS 4 Tx slots		25.34	25.48	25.42	26.00	22.34	22.48	22.42	23.00
EDGE 1 Tx slot		27.29	27.36	27.16	28.00	18.29	18.36	18.16	19.00
EDGE 2 Tx slots		26.42	26.33	26.21	27.00	20.42	20.33	20.21	21.00
EDGE 3 Tx slots		25.26	25.14	25.17	26.00	21.00	20.88	20.91	21.74
EDGE 4 Tx slots		24.61	24.11	24.16	25.00	21.61	21.11	21.16	22.00
Antenna		Ant 3							

Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6	1712.4	1732.6	1752.6		
3GPP Rel 99	RMC 12.2Kbps	22.41	22.52	22.43	23.00	22.72	22.82	22.76	23.50
3GPP Rel 6	HSDPA Subtest-1	21.31	21.38	21.36	22.00	22.11	22.09	22.08	23.00
3GPP Rel 6	HSDPA Subtest-2	21.31	21.48	21.34	22.00	22.18	21.99	22.12	23.00
3GPP Rel 6	HSDPA Subtest-3	20.76	21.08	20.58	21.50	21.57	21.51	21.57	22.50
3GPP Rel 6	HSDPA Subtest-4	20.63	20.91	20.56	21.50	21.59	21.49	21.60	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	19.80	19.45	19.60	20.50	20.80	20.93	20.62	21.50
3GPP Rel 8	DC-HSDPA Subtest-2	19.67	19.37	19.54	20.50	20.75	20.56	20.58	21.50
3GPP Rel 8	DC-HSDPA Subtest-3	19.00	19.11	19.30	20.00	20.45	20.18	20.29	21.00
3GPP Rel 8	DC-HSDPA Subtest-4	19.05	19.12	19.04	20.00	20.23	20.16	20.16	21.00
3GPP Rel 6	HSUPA Subtest-1	21.34	21.39	20.95	22.00	22.26	21.85	22.09	22.50
3GPP Rel 6	HSUPA Subtest-2	20.74	20.80	20.43	21.50	21.66	21.41	21.69	22.50
3GPP Rel 6	HSUPA Subtest-3	21.30	21.36	20.98	22.00	22.12	21.90	22.20	22.50
3GPP Rel 6	HSUPA Subtest-4	21.31	21.37	20.84	22.00	22.05	21.90	22.16	22.50
3GPP Rel 6	HSUPA Subtest-5	21.36	21.45	20.89	22.00	22.08	21.86	22.14	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.38	21.37	20.90	22.00	21.62	21.51	21.63	22.00
Antenna		Ant 3			Ant 3				

Band		WCDMA V			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)
TX Channel		4132	4183	4233		4132	4183	4233	
Rx Channel		4357	4408	4458		4357	4408	4458	
Frequency (MHz)		826.4	836.6	846.6		826.4	836.6	846.6	
3GPP Rel 99	RMC 12.2Kbps	21.08	21.11	21.15	22.00	23.62	23.81	23.85	24.50
3GPP Rel 6	HSDPA Subtest-1	20.99	21.07	20.98	22.00	23.21	23.17	23.18	24.00
3GPP Rel 6	HSDPA Subtest-2	21.27	21.07	21.23	22.00	23.22	23.18	23.19	24.00
3GPP Rel 6	HSDPA Subtest-3	20.37	20.50	20.71	21.50	22.72	22.63	22.68	23.50
3GPP Rel 6	HSDPA Subtest-4	20.74	20.65	20.67	21.50	22.66	22.67	22.56	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	20.12	20.20	20.11	20.50	22.56	22.74	22.80	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	20.11	20.04	20.00	20.50	22.41	22.50	22.57	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	19.70	19.47	19.59	20.00	22.14	22.31	22.31	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	19.68	19.72	19.60	20.00	22.18	22.05	22.14	23.00
3GPP Rel 6	HSUPA Subtest-1	21.02	20.99	21.08	22.00	23.15	23.20	23.15	24.00
3GPP Rel 6	HSUPA Subtest-2	20.56	20.53	20.54	21.00	22.69	22.67	22.64	23.00
3GPP Rel 6	HSUPA Subtest-3	21.02	21.20	21.05	22.00	23.23	23.21	23.17	24.00
3GPP Rel 6	HSUPA Subtest-4	21.04	21.02	20.98	20.00	23.17	23.26	23.15	24.00
3GPP Rel 6	HSUPA Subtest-5	21.15	21.14	21.17	22.00	23.22	23.16	23.13	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.01	21.17	21.06	22.00	23.26	23.25	23.17	24.00
Antenna		Ant 2			Ant 0				

3	QPSK	8	0	20.38	20.33	20.35	21.5
3	QPSK	8	4	20.44	20.38	20.39	
3	QPSK	8	7	20.44	20.38	20.34	
3	QPSK	15	0	20.36	20.44	20.37	21.5
3	16QAM	1	0	20.52	20.43	20.37	
3	16QAM	1	8	20.56	20.50	20.46	
3	16QAM	1	14	20.49	20.46	20.34	21.5
3	16QAM	8	0	20.40	20.53	20.45	
3	16QAM	8	4	20.47	20.44	20.50	
3	16QAM	8	7	20.37	20.42	20.45	21.5
3	16QAM	15	0	20.40	20.44	20.39	
3	64QAM	1	0	20.37	20.30	20.33	
3	64QAM	1	8	20.55	20.54	20.14	21.5
3	64QAM	1	14	20.16	20.52	20.16	
3	64QAM	8	0	20.28	20.30	20.38	
3	64QAM	8	4	20.38	20.28	20.52	21.5
3	64QAM	8	7	20.48	20.37	20.47	
3	64QAM	15	0	20.33	20.33	20.55	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.41	21.43	21.39	22.5
1.4	QPSK	1	3	21.51	21.49	21.48	
1.4	QPSK	1	5	21.48	21.46	21.44	
1.4	QPSK	3	0	21.35	21.25	21.42	
1.4	QPSK	3	1	21.43	21.26	21.33	
1.4	QPSK	3	3	21.11	21.15	21.42	
1.4	QPSK	6	0	20.58	20.56	20.55	21.5
1.4	16QAM	1	0	20.61	20.61	20.55	
1.4	16QAM	1	3	20.57	20.77	20.75	21.5
1.4	16QAM	1	5	20.45	20.65	20.33	
1.4	16QAM	3	0	20.47	20.52	20.49	
1.4	16QAM	3	1	20.65	20.47	20.52	
1.4	16QAM	3	3	20.67	20.64	20.38	
1.4	16QAM	6	0	20.68	20.61	20.56	
1.4	64QAM	1	0	20.44	20.36	20.39	21.5
1.4	64QAM	1	3	20.46	20.67	20.55	
1.4	64QAM	1	5	20.44	20.79	20.38	
1.4	64QAM	3	0	20.47	20.53	20.54	
1.4	64QAM	3	1	20.56	20.53	20.27	
1.4	64QAM	3	3	20.48	20.62	20.39	
1.4	64QAM	6	0	20.53	20.56	20.45	21.5

3	QPSK	8	0	20.33	20.39	20.40	21
3	QPSK	8	4	20.39	20.47	20.49	
3	QPSK	8	7	20.35	20.45	20.45	
3	QPSK	15	0	20.35	20.41	20.35	21
3	16QAM	1	0	20.19	20.28	20.32	
3	16QAM	1	8	20.41	20.41	20.15	
3	16QAM	1	14	20.32	20.10	20.18	21
3	16QAM	8	0	20.11	20.12	20.21	
3	16QAM	8	4	20.21	20.21	20.22	
3	16QAM	8	7	20.43	20.51	20.55	21
3	16QAM	15	0	20.43	20.41	20.48	
3	64QAM	1	0	20.15	20.24	20.22	
3	64QAM	1	8	20.34	20.22	20.38	21
3	64QAM	1	14	20.15	20.22	20.05	
3	64QAM	8	0	20.13	20.17	20.11	
3	64QAM	8	4	20.25	20.23	20.27	21
3	64QAM	8	7	20.19	20.26	20.38	
3	64QAM	15	0	20.15	20.23	20.14	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.98	21.19	21.20	22
1.4	QPSK	1	3	21.32	21.32	21.36	
1.4	QPSK	1	5	21.18	21.27	21.29	
1.4	QPSK	3	0	21.26	21.23	21.22	
1.4	QPSK	3	1	21.22	21.32	21.37	
1.4	QPSK	3	3	21.21	21.28	21.27	
1.4	QPSK	6	0	20.11	20.20	20.20	21
1.4	16QAM	1	0	20.08	20.55	20.21	
1.4	16QAM	1	3	20.21	20.29	20.33	21
1.4	16QAM	1	5	20.27	20.43	20.23	
1.4	16QAM	3	0	20.30	20.34	20.25	
1.4	16QAM	3	1	20.31	20.34	20.36	
1.4	16QAM	3	3	20.30	20.42	20.31	
1.4	16QAM	6	0	20.21	20.22	20.13	
1.4	64QAM	1	0	20.04	19.98	20.12	21
1.4	64QAM	1	3	20.30	20.28	20.40	
1.4	64QAM	1	5	20.21	20.17	20.01	
1.4	64QAM	3	0	20.12	20.10	20.29	
1.4	64QAM	3	1	20.03	20.18	20.15	
1.4	64QAM	3	3	20.09	20.26	20.14	
1.4	64QAM	6	0	20.08	20.09	20.16	21

LTE Band 13 (Ant2)							
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	24.02			25
10	QPSK	1	25	24.20			
10	QPSK	1	49	24.10			
10	QPSK	25	0	23.08			24
10	QPSK	25	12	23.15			
10	QPSK	25	25	23.17			
10	QPSK	50	0	23.16			24
10	16QAM	1	0	23.26			
10	16QAM	1	25	23.50			
10	16QAM	1	49	23.47			23
10	16QAM	25	0	22.64			
10	16QAM	25	12	22.54			
10	16QAM	25	25	22.54			23
10	16QAM	50	0	22.62			
10	64QAM	1	0	22.51			
10	64QAM	1	25	22.62			23
10	64QAM	1	49	22.48			
10	64QAM	25	0	22.54			
10	64QAM	25	12	22.56			23
10	64QAM	25	25	22.67			
10	64QAM	50	0	22.51			
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.97	24.11	24.08	25
5	QPSK	1	12	24.04	24.07	24.02	
5	QPSK	1	24	24.02	24.02	24.08	
5	QPSK	12	0	23.04	23.06	23.07	24
5	QPSK	12	7	23.18	23.04	23.17	
5	QPSK	12	13	23.09	23.18	23.11	
5	QPSK	25	0	23.20	23.13	23.16	24
5	16QAM	1	0	23.55	23.38	23.30	
5	16QAM	1	12	23.21	23.56	23.50	
5	16QAM	1	24	23.43	23.59	23.57	23
5	16QAM	12	0	22.56	22.07	22.13	
5	16QAM	12	7	22.61	22.05	22.25	
5	16QAM	12	13	22.54	22.27	22.16	23
5	16QAM	25	0	22.52	22.45	22.15	
5	64QAM	1	0	22.55	22.61	22.61	
5	64QAM	1	12	22.45	22.45	22.29	23
5	64QAM	1	24	22.61	22.26	22.34	
5	64QAM	12	0	22.45	22.34	22.48	
5	64QAM	12	7	22.48	22.27	22.34	23
5	64QAM	12	13	22.64	22.17	22.13	
5	64QAM	25	0	22.35	22.13	22.24	

LTE Band 13 (Ant 0)							
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	23.67			24.5
10	QPSK	1	25	23.99			
10	QPSK	1	49	23.60			
10	QPSK	25	0	22.66			23.5
10	QPSK	25	12	22.74			
10	QPSK	25	25	22.75			
10	QPSK	50	0	22.73			23.5
10	16QAM	1	0	22.80			
10	16QAM	1	25	22.97			
10	16QAM	1	49	22.80			23.5
10	16QAM	25	0	22.66			
10	16QAM	25	12	22.75			
10	16QAM	25	25	22.84			23.5
10	16QAM	50	0	22.82			
10	64QAM	1	0	22.56			
10	64QAM	1	25	22.37			23.5
10	64QAM	1	49	22.62			
10	64QAM	25	0	21.79			
10	64QAM	25	12	21.76			22.5
10	64QAM	25	25	21.72			
10	64QAM	50	0	21.62			
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.55	23.71	23.73	24.5
5	QPSK	1	12	23.59	23.65	23.61	
5	QPSK	1	24	23.71	23.80	23.72	
5	QPSK	12	0	22.68	22.72	22.68	23.5
5	QPSK	12	7	22.80	22.69	22.80	
5	QPSK	12	13	22.79	22.73	22.73	
5	QPSK	25	0	22.83	22.67	22.76	23.5
5	16QAM	1	0	22.90	22.77	22.81	
5	16QAM	1	12	22.98	22.99	23.01	
5	16QAM	1	24	23.26	23.05	22.91	23.5
5	16QAM	12	0	22.75	22.75	22.75	
5	16QAM	12	7	22.64	22.72	22.65	
5	16QAM	12	13	22.57	22.61	22.54	23.5
5	16QAM	25	0	22.68	22.73	22.62	
5	64QAM	1	0	22.98	22.45	22.76	
5	64QAM	1	12	22.35	22.62	22.86	23.5
5	64QAM	1	24	22.66	22.61	22.63	
5	64QAM	12	0	21.62	21.82	21.69	
5	64QAM	12	7	21.86	21.71	21.74	22.5
5	64QAM	12	13	21.82	21.82	21.75	
5	64QAM	25	0	21.84	21.80	21.79	

Band 17 (700MHz Band) (Ant 2) 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	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.22	24.18	24.06	25
10	QPSK	1	25	24.07	24.15	24.06	
10	QPSK	1	49	24.06	23.93	24.07	
10	QPSK	25	0	23.13	23.11	23.09	24
10	QPSK	25	12	23.10	23.09	23.12	
10	QPSK	25	25	23.07	23.11	23.10	
10	QPSK	50	0	23.12	23.09	23.11	24
10	16QAM	1	0	23.11	23.09	23.14	
10	16QAM	1	25	23.12	23.15	23.11	
10	16QAM	1	49	23.07	23.12	23.09	23
10	16QAM	25	0	22.46	22.58	22.47	
10	16QAM	25	12	22.55	22.51	22.52	
10	16QAM	25	25	22.46	22.52	22.45	23
10	16QAM	50	0	22.52	22.57	22.45	
10	64QAM	1	0	22.41	22.31	22.30	
10	64QAM	1	25	22.45	22.54	22.33	23
10	64QAM	1	49	22.51	22.51	22.36	
10	64QAM	25	0	22.49	22.58	22.45	
10	64QAM	25	12	22.54	22.51	22.43	23
10	64QAM	25	25	22.46	22.55	22.52	
10	64QAM	50	0	22.57	22.49	22.44	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.15	24.10	24.02	25
5	QPSK	1	12	24.02	24.06	23.98	
5	QPSK	1	24	23.98	23.88	24.02	
5	QPSK	12	0	23.12	23.05	23.01	24
5	QPSK	12	7	23.08	23.02	23.06	
5	QPSK	12	13	22.97	23.02	23.02	
5	QPSK	25	0	23.08	23.02	23.06	24
5	16QAM	1	0	23.05	23.02	23.09	
5	16QAM	1	12	23.07	23.13	23.01	
5	16QAM	1	24	23.01	23.09	23.01	23
5	16QAM	12	0	22.40	22.55	22.39	
5	16QAM	12	7	22.51	22.41	22.44	
5	16QAM	12	13	22.41	22.43	22.42	23
5	16QAM	25	0	22.51	22.56	22.36	
5	64QAM	1	0	22.40	22.24	22.28	
5	64QAM	1	12	22.35	22.50	22.23	23
5	64QAM	1	24	22.46	22.45	22.31	
5	64QAM	12	0	22.48	22.50	22.35	
5	64QAM	12	7	22.45	22.44	22.40	23
5	64QAM	12	13	22.44	22.45	22.47	
5	64QAM	25	0	22.47	22.39	22.37	

Band 17 (700MHz Band) (Ant 0) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23760	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.81	23.73	23.72	24.5
10	QPSK	1	25	23.76	23.65	23.73	
10	QPSK	1	49	23.65	23.76	23.69	
10	QPSK	25	0	22.91	22.86	22.68	23.5
10	QPSK	25	12	22.81	22.90	22.84	
10	QPSK	25	25	22.73	22.81	22.87	
10	QPSK	50	0	22.80	22.80	22.84	23.5
10	16QAM	1	0	22.94	22.96	22.91	
10	16QAM	1	25	22.90	22.85	22.86	
10	16QAM	1	49	22.87	22.95	22.92	23
10	16QAM	25	0	22.36	22.33	22.44	
10	16QAM	25	12	22.35	22.42	22.32	
10	16QAM	25	25	22.26	22.32	22.30	23
10	16QAM	50	0	22.35	22.34	22.41	
10	64QAM	1	0	22.43	22.44	22.39	
10	64QAM	1	25	22.41	22.40	22.38	23
10	64QAM	1	49	22.35	22.39	22.34	
10	64QAM	25	0	22.37	22.36	22.32	
10	64QAM	25	12	22.34	22.38	22.25	23
10	64QAM	25	25	22.26	22.23	22.33	
10	64QAM	50	0	22.29	22.37	22.36	
Channel				23765	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.72	23.65	23.63	24.5
5	QPSK	1	12	23.71	23.62	23.66	
5	QPSK	1	24	23.55	23.69	23.60	
5	QPSK	12	0	22.82	22.82	22.63	23.5
5	QPSK	12	7	22.73	22.82	22.78	
5	QPSK	12	13	22.63	22.78	22.86	
5	QPSK	25	0	22.73	22.77	22.75	23.5
5	16QAM	1	0	22.87	22.94	22.88	
5	16QAM	1	12	22.82	22.81	22.78	
5	16QAM	1	24	22.81	22.89	22.89	23
5	16QAM	12	0	22.32	22.26	22.36	
5	16QAM	12	7	22.29	22.32	22.27	
5	16QAM	12	13	22.18	22.28	22.29	23
5	16QAM	25	0	22.29	22.29	22.31	
5	64QAM	1	0	22.35	22.43	22.32	
5	64QAM	1	12	22.37	22.36	22.35	23
5	64QAM	1	24	22.30	22.34	22.24	
5	64QAM	12	0	22.34	22.35	22.27	
5	64QAM	12	7	22.25	22.36	22.22	23
5	64QAM	12	13	22.20	22.17	22.31	
5	64QAM	25	0	22.19	22.32	22.33	

LTE Band 66 (Ant3)

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	21.45	21.61	21.50	22
20	QPSK	1	49	21.31	21.44	21.47	
20	QPSK	1	99	21.41	21.42	21.41	
20	QPSK	50	0	20.62	20.72	20.63	21
20	QPSK	50	24	20.59	20.53	20.32	
20	QPSK	50	50	20.64	20.70	20.63	
20	QPSK	100	0	20.65	20.67	20.58	21
20	16QAM	1	0	20.58	20.13	20.26	
20	16QAM	1	49	20.33	20.28	20.42	
20	16QAM	1	99	20.42	20.47	20.36	21
20	16QAM	50	0	20.31	20.33	20.27	
20	16QAM	50	24	20.35	20.39	20.28	
20	16QAM	50	50	20.40	20.41	20.35	21
20	16QAM	100	0	20.30	20.38	20.43	
20	64QAM	1	0	20.13	20.25	20.59	
20	64QAM	1	49	20.57	20.63	20.22	21
20	64QAM	1	99	20.59	20.27	20.20	
20	64QAM	50	0	20.10	20.04	20.01	
20	64QAM	50	24	20.15	20.18	20.10	21
20	64QAM	50	50	20.20	20.17	20.17	
20	64QAM	100	0	20.12	20.05	20.16	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	21.20	21.36	21.31	22
15	QPSK	1	37	21.36	21.52	21.36	
15	QPSK	1	74	21.32	21.51	21.37	
15	QPSK	36	0	20.35	20.42	20.41	21
15	QPSK	36	20	20.46	20.48	20.45	
15	QPSK	36	39	20.41	20.44	20.41	
15	QPSK	75	0	20.37	20.49	20.45	21
15	16QAM	1	0	20.38	20.40	20.42	
15	16QAM	1	37	20.55	20.50	20.51	
15	16QAM	1	74	20.51	20.49	20.45	21
15	16QAM	36	0	20.25	20.22	20.25	
15	16QAM	36	20	20.39	20.44	20.28	
15	16QAM	36	39	20.34	20.31	20.36	21
15	16QAM	75	0	20.35	20.31	20.33	
15	64QAM	1	0	20.11	20.12	20.17	
15	64QAM	1	37	20.56	20.26	20.19	21
15	64QAM	1	74	20.54	20.23	20.28	
15	64QAM	36	0	20.08	20.10	20.05	
15	64QAM	36	20	20.18	20.06	20.12	21
15	64QAM	36	39	20.05	20.15	20.20	
15	64QAM	75	0	20.20	20.16	20.13	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	21.28	21.37	21.22	22
10	QPSK	1	25	21.46	21.45	21.55	
10	QPSK	1	49	21.40	21.51	21.46	
10	QPSK	25	0	20.43	20.41	20.41	21
10	QPSK	25	12	20.46	20.49	20.50	
10	QPSK	25	25	20.41	20.49	20.43	
10	QPSK	50	0	20.40	20.48	20.34	21
10	16QAM	1	0	20.41	20.77	20.36	
10	16QAM	1	25	20.61	20.59	20.54	
10	16QAM	1	49	20.44	20.49	20.35	21
10	16QAM	25	0	20.41	20.30	20.33	
10	16QAM	25	12	20.46	20.43	20.54	
10	16QAM	25	25	20.30	20.33	20.39	21
10	16QAM	50	0	20.28	20.21	20.20	
10	64QAM	1	0	20.12	20.46	20.45	
10	64QAM	1	25	20.41	20.31	20.32	21
10	64QAM	1	49	20.34	20.19	20.30	
10	64QAM	25	0	20.01	20.09	20.00	
10	64QAM	25	12	20.10	20.14	20.13	21
10	64QAM	25	25	20.09	20.01	20.16	
10	64QAM	50	0	20.08	20.10	20.02	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	21.34	21.35	21.27	22
5	QPSK	1	12	21.29	21.33	21.22	
5	QPSK	1	24	21.24	21.19	21.24	
5	QPSK	12	0	20.15	20.52	20.19	21
5	QPSK	12	7	20.21	20.18	20.08	
5	QPSK	12	13	20.31	20.34	20.31	
5	QPSK	25	0	20.26	20.28	20.25	21
5	16QAM	1	0	20.07	20.17	20.35	
5	16QAM	1	12	20.22	20.08	20.36	
5	16QAM	1	24	20.16	20.47	20.12	21
5	16QAM	12	0	20.01	20.11	20.04	
5	16QAM	12	7	20.06	19.98	20.09	
5	16QAM	12	13	20.14	20.19	20.02	21
5	16QAM	25	0	20.02	20.14	20.12	
5	64QAM	1	0	20.30	20.14	19.87	
5	64QAM	1	12	20.24	20.21	20.26	21
5	64QAM	1	24	20.22	20.27	20.18	
5	64QAM	12	0	19.96	19.97	20.02	
5	64QAM	12	7	20.01	20.02	20.02	21
5	64QAM	12	13	20.05	20.12	19.97	
5	64QAM	25	0	19.98	19.95	20.07	
Channel				131967	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	

3	QPSK	8	0	20.24	20.33	20.35	21
3	QPSK	8	4	20.32	20.39	20.34	
3	QPSK	8	7	20.35	20.38	20.42	
3	QPSK	15	0	20.41	20.34	20.36	21
3	16QAM	1	0	20.57	20.68	20.75	
3	16QAM	1	8	20.39	20.50	20.48	
3	16QAM	1	14	20.43	20.43	20.65	21
3	16QAM	8	0	20.02	20.13	20.15	
3	16QAM	8	4	20.09	20.12	20.11	
3	16QAM	8	7	20.15	20.13	20.02	21
3	16QAM	15	0	20.10	20.18	20.10	
3	64QAM	1	0	20.20	20.17	20.05	
3	64QAM	1	8	20.10	20.25	20.34	21
3	64QAM	1	14	20.09	20.21	20.27	
3	64QAM	8	0	19.94	20.02	20.01	
3	64QAM	8	4	20.05	20.04	20.11	21
3	64QAM	8	7	20.09	20.00	20.02	
3	64QAM	15	0	19.94	20.04	19.99	
Channel				131979	132322	132685	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.31	21.35	21.28	22
1.4	QPSK	1	3	21.42	21.41	21.43	
1.4	QPSK	1	5	21.31	21.36	21.32	
1.4	QPSK	3	0	21.26	21.39	21.37	
1.4	QPSK	3	1	21.47	21.47	21.48	
1.4	QPSK	3	3	21.42	21.44	21.40	
1.4	QPSK	6	0	20.40	20.37	20.35	21
1.4	16QAM	1	0	20.44	20.38	20.23	21
1.4	16QAM	1	3	20.25	20.68	20.35	
1.4	16QAM	1	5	20.37	20.38	20.37	
1.4	16QAM	3	0	20.21	20.24	20.25	
1.4	16QAM	3	1	20.37	20.45	20.29	
1.4	16QAM	3	3	20.20	20.34	20.34	
1.4	16QAM	6	0	20.13	20.33	20.23	21
1.4	64QAM	1	0	19.96	20.11	19.95	21
1.4	64QAM	1	3	20.08	20.01	20.06	
1.4	64QAM	1	5	20.24	20.27	20.23	
1.4	64QAM	3	0	20.14	20.15	19.98	
1.4	64QAM	3	1	20.12	20.36	20.21	
1.4	64QAM	3	3	20.14	19.98	20.14	
1.4	64QAM	6	0	20.10	20.11	19.98	21

DC_13A_66A_N2								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	DFT-s-OFDM PI/2 BPSK	1	1	21.68	21.60	21.72	22.5	
20		1	53	21.83	21.71	21.60		
20		1	104	21.63	21.69	21.35		
20		50	1	21.54	21.58	21.42	22	
20		50	25	21.57	21.31	21.22		
20		50	50	21.52	21.45	21.46		
20		100	0	21.60	21.64	21.31		
20		DFT-s-OFDM QPSK	1	1	21.78	21.99	21.83	22.5
20			1	53	21.91	21.89	21.53	
20			1	104	21.68	21.95	21.60	
20	50		1	21.68	21.69	21.45	22	
20	50		25	21.65	21.58	21.29		
20	50		50	21.61	21.64	21.28		
20	100		0	21.66	21.68	21.45		
20	DFT-s-OFDM		1	1	21.72	21.83	21.62	22.5
20	DFT-s-OFDM		1	1	20.30	20.17	20.45	21
20	DFT-s-OFDM		1	1	18.12	17.96	18.20	19
Channel				3715000	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	DFT-s-OFDM	1	1	21.72	21.20	21.12	22	
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	DFT-s-OFDM	1	1	21.12	21.06	21.23	22	
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	CP-OFDM QPSK	1	1	21.10	21.16	21.47	22	
20	CP-OFDM 16QAM	1	1	20.10	20.93	20.75	21.5	
20	CP-OFDM 64QAM	1	1	18.61	19.07	19.19	20	
20	CP-OFDM 256QAM	1	1	17.54	17.30	17.46	18	

DC_12A_66A_66A_N2								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	DFT-s-OFDM PI/2 BPSK	1	1	17.98	17.64	17.61	18.5	
20		1	53	17.69	17.63	17.53		
20		1	104	17.97	17.74	17.88		
20		50	1	17.43	17.43	17.47	18.5	
20		50	25	17.45	17.17	17.57		
20		50	50	17.32	17.36	17.35		
20		100	0	17.40	17.32	17.25		
20		DFT-s-OFDM QPSK	1	1	17.80	18.04	17.63	18.5
20			1	53	17.49	17.50	17.50	
20			1	104	17.72	17.70	17.52	
20	50		1	17.56	17.61	17.56	18.5	
20	50		25	17.49	17.38	17.34		
20	50		50	17.48	17.50	17.44		
20	100		0	17.56	17.50	17.42		
20	DFT-s-OFDM		1	1	17.88	17.84	17.69	18.5
20	DFT-s-OFDM		1	1	17.71	17.50	17.70	18.5
20	DFT-s-OFDM		1	1	17.65	17.51	17.45	18.5
Channel				3715000	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	DFT-s-OFDM	1	1	17.72	17.74	17.47	18.5	
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	DFT-s-OFDM	1	1	17.75	17.42	17.36	18.5	
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	CP-OFDM QPSK	1	1	17.58	17.59	17.32	18.5	
20	CP-OFDM 16QAM	1	1	17.90	17.54	17.82	18.5	
20	CP-OFDM 64QAM	1	1	17.59	18.02	17.34	18.5	
20	CP-OFDM 256QAM	1	1	17.65	17.45	17.23	18.5	

DC_12A_N2								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	DFT-s-OFDM PI/2 BPSK	1	1	17.67	17.19	17.34	18.5	
20		1	53	17.57	17.25	17.22		
20		1	104	17.53	17.26	16.79		
20		50	1	17.76	17.30	17.37	18.5	
20		50	25	17.65	17.31	17.49		
20		50	50	17.53	17.29	17.10		
20		100	0	17.62	17.40	17.16		
20		DFT-s-OFDM QPSK	1	1	17.79	17.82	17.80	18.5
20			1	53	17.58	17.25	17.69	
20			1	104	17.28	17.21	17.52	
20	50		1	17.60	17.63	17.30	18.5	
20	50		25	17.58	17.18	17.25		
20	50		50	17.46	17.38	17.04		
20	100		0	17.55	17.33	17.31		
20	DFT-s-OFDM		1	1	17.80	17.51	17.49	18.5
20	DFT-s-OFDM		1	1	17.46	17.28	17.07	18.5
20	DFT-s-OFDM		1	1	17.21	17.00	17.06	18.5
Channel				3715000	376000	380500	Tune-up limit (dBm)	
Frequency (MHz)				1857.5	1880	1902.5		
15	DFT-s-OFDM	1	1	17.68	17.31	17.13	18.5	
Channel				371000	376000	381000	Tune-up limit (dBm)	
Frequency (MHz)				1855	1880	1905		
10	DFT-s-OFDM	1	1	17.62	17.26	17.39	18.5	
Channel				370500	376000	381500	Tune-up limit (dBm)	
Frequency (MHz)				1852.5	1880	1907.5		
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	CP-OFDM QPSK	1	1	17.49	17.21	17.23	18	
20	CP-OFDM 16QAM	1	1	17.18	17.36	17.61	18	
20	CP-OFDM 64QAM	1	1	17.24	17.24	17.05	18	
20	CP-OFDM 256QAM	1	1	17.50	17.30	17.17	18	

DC_2A_12A_N2								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	DFT-s-OFDM PI/2 BPSK	1	1	17.83	17.65	17.56	18.5	
20		1	53	17.82	17.52	17.43		
20		1	104	17.66	17.77	17.71		
20		50	1	17.64	17.51	17.66	18.5	
20		50	25	17.66	17.48	17.79		
20		50	50	17.81	17.63	17.60		
20		100	0	17.57	17.60	17.42		
20		DFT-s-OFDM QPSK	1	1	17.75	17.86	17.77	18.5
20			1	53	17.34	17.31	17.26	
20			1	104	17.22	17.39	17.56	
20	50		1	17.26	17.49	17.45	18.5	
20	50		25	17.33	17.39	17.31		
20	50		50	17.44	17.44	17.21		
20	100		0	17.47	17.41	17.19		
20	DFT-s-OFDM		1	1	17.76	17.41	17.48	18.5
20	DFT-s-OFDM		1	1	17.43	17.24	17.36	18.5
20	DFT-s-OFDM		1	1	17.17	17.23	17.31	18.5
Channel				3715000	376000	380500	Tune-up limit (dBm)	
Frequency (MHz)				1857.5	1880	1902.5		
15	DFT-s-OFDM	1	1	17.74	17.61	17.46	18.5	
Channel				371000	376000	381000	Tune-up limit (dBm)	
Frequency (MHz)				1855	1880	1905		
10	DFT-s-OFDM	1	1	17.64	17.33	17.43	18.5	
Channel				370500	376000	381500	Tune-up limit (dBm)	
Frequency (MHz)				1852.5	1880	1907.5		
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	CP-OFDM QPSK	1	1	17.43	17.12	17.45	18	
20	CP-OFDM 16QAM	1	1	17.78	17.63	17.73	18	
20	CP-OFDM 64QAM	1	1	17.55	17.13	17.37	18	
20	CP-OFDM 256QAM	1	1	17.53	17.27	17.39	18	

DC_12A_66A_N2							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	19
Frequency (MHz)				1860	1880	1900	
20	DFT-s-OFDM PI/2 BPSK	1	1	18.09	18.06	17.58	19
20		1	53	17.95	17.77	17.47	
20		1	104	17.95	17.79	17.75	
20		50	1	18.07	17.87	17.82	18
20		50	25	17.97	17.75	17.68	
20		50	50	18.01	17.88	17.10	
20	100	0	18.05	17.90	17.53		
20	DFT-s-OFDM QPSK	1	1	18.21	18.35	18.26	19
20		1	53	17.90	18.32	17.76	
20		1	104	17.84	18.01	17.34	
20		50	1	17.66	17.69	17.59	18
20		50	25	17.52	17.66	17.61	
20		50	50	17.67	17.52	17.63	
20	100	0	17.66	17.63	17.22		
20	DFT-s-OFDM	1	1	18.21	18.00	18.01	19
20	DFT-s-OFDM	1	1	18.06	17.59	17.71	18.5
20	DFT-s-OFDM	1	1	17.09	17.62	17.57	18
Channel				3715000	376000	380500	18.5
Frequency (MHz)				1857.5	1880	1902.5	
15	DFT-s-OFDM	1	1	18.07	17.91	17.94	18.5
Channel				371000	376000	381000	18.5
Frequency (MHz)				1855	1880	1905	
10	DFT-s-OFDM	1	1	18.14	17.76	17.82	18.5
Channel				370500	376000	381500	18.5
Frequency (MHz)				1852.5	1880	1907.5	
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000	18
Frequency (MHz)				1860	1880	1900	
20	CP-OFDM QPSK	1	1	17.69	17.61	17.69	18
20	CP-OFDM 16QAM	1	1	17.62	17.69	17.74	18
20	CP-OFDM 64QAM	1	1	17.71	17.22	17.26	18
20	CP-OFDM 256QAM	1	1	17.71	17.58	17.23	18

DC_46A_66A_N5							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	23
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.49	22.34	22.17	23
20		1	53	22.05	22.20	22.11	
20		1	104	22.04	22.11	22.00	
20		50	1	22.27	22.26	22.17	23
20		50	25	22.14	22.10	22.11	
20		50	50	22.19	22.08	22.24	
20	100	0	22.25	22.24	22.13		
20	DFT-s-OFDM QPSK	1	1	22.46	22.50	22.49	23
20		1	53	22.42	22.43	22.34	
20		1	104	22.19	22.28	22.22	
20		50	1	22.34	22.35	22.20	22.5
20		50	25	22.16	22.16	22.09	
20		50	50	22.15	22.15	22.19	
20	100	0	22.22	22.17	22.12		
20	DFT-s-OFDM	1	1	22.03	22.21	22.02	23
20	DFT-s-OFDM	1	1	20.78	20.64	20.59	21.5
20	DFT-s-OFDM	1	1	18.84	18.71	18.56	19.5
Channel				166300	167300	168300	23
Frequency (MHz)				831.5	836.5	837.79	
15	DFT-s-OFDM	1	1	22.48	22.48	22.42	23
Channel				165800	167300	168800	23
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM	1	1	22.09	22.12	22.21	23
Channel				165300	167300	169300	23
Frequency (MHz)				826.5	836.5	846.5	
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	22.5
Frequency (MHz)				834	836.5	839	
20	CP-OFDM QPSK	1	1	21.74	21.85	21.71	22.5
20	CP-OFDM 16QAM	1	1	21.79	21.64	21.50	22.5
20	CP-OFDM 64QAM	1	1	19.55	19.75	19.48	20.5
20	CP-OFDM 256QAM	1	1	19.62	19.73	19.65	20.5

DC_2A_46D_N5								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				166900	167300	167800	Tune-up limit (dBm)	
Frequency (MHz)				834	836.5	839		
20	DFT-s-OFDM PI/2 BPSK	1	1	18.09	18.10	18.12	19.5	
20		1	53	18.00	18.08	18.21		
20		1	104	18.14	17.89	17.86		
20		50	1	18.04	18.16	18.30	19.5	
20		50	25	18.22	18.23	18.33		
20		50	50	18.21	18.23	18.09		
20		100	0	18.18	18.24	18.20		
20		DFT-s-OFDM QPSK	1	1	18.77	18.86	18.65	19.5
20			1	53	18.72	18.11	18.22	
20			1	104	18.62	18.61	18.61	
20	50		1	18.03	18.22	18.12	19.5	
20	50		25	18.13	18.13	18.29		
20	50		50	18.13	18.19	18.27		
20	DFT-s-OFDM	1	1	18.26	18.19	18.08	19.5	
20	DFT-s-OFDM	1	1	18.28	18.24	18.18		
20	DFT-s-OFDM	1	1	17.93	17.97	17.99	18.5	
20	DFT-s-OFDM	1	1	17.95	17.92	17.93	18.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	
Frequency (MHz)				831.5	836.5	839.93		
15	DFT-s-OFDM	1	1	18.13	18.08	18.14	18.5	
Channel				165800	167300	168800	Tune-up limit (dBm)	
Frequency (MHz)				829	836.5	844		
10	DFT-s-OFDM	1	1	18.15	18.10	18.19	18.5	
Channel				165300	167300	169300	Tune-up limit (dBm)	
Frequency (MHz)				826.5	836.5	846.5		
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				168800	167300	167800	Tune-up limit (dBm)	
Frequency (MHz)				834	836.5	839		
20	CP-OFDM QPSK	1	1	18.08	18.00	18.01	18.5	
20	CP-OFDM 16QAM	1	1	18.31	18.38	18.42	18.5	
20	CP-OFDM 64QAM	1	1	17.85	17.86	17.90	18.5	
20	CP-OFDM 256QAM	1	1	17.01	17.02	17.04	18.5	

DC_13A_46A_N66								
Channel				344000	349000	354000	Tune-up limit (dBm)	
Frequency (MHz)				1720	1745	1770	Tune-up limit (dBm)	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.06	22.18	22.06		23.5
20		1	39	22.56	22.22	22.10		
20		1	77	22.36	22.06	22.16		
20		36	1	22.43	22.31	22.27	23	
20		36	18	22.56	22.24	22.16		
20		36	36	22.54	22.17	22.10		
20		75	0	22.52	22.29	22.18		
20		DFT-s-OFDM QPSK	1	1	22.90	22.91	22.89	23.5
20			1	39	22.81	22.33	22.68	
20			1	77	22.88	22.36	22.76	
20	36		1	22.66	22.68	22.65	23	
20	36		18	22.57	22.37	22.46		
20	36		36	22.64	22.32	22.40		
20	75	0	22.56	22.32	22.63			
20	DFT-s-OFDM	1	1	22.24	22.29	22.34	23	
20	DFT-s-OFDM	1	1	20.48	20.57	20.16	21	
20	DFT-s-OFDM	1	1	18.51	18.59	18.12	19	
Channel				343500	349000	354500	Tune-up limit (dBm)	
Frequency (MHz)				1717.5	1745	1772.5		
15	DFT-s-OFDM	1	1	22.10	21.80	21.76	23	
Channel				343000	349000	355000	Tune-up limit (dBm)	
Frequency (MHz)				1715	1745	1775		
10	DFT-s-OFDM	1	1	22.18	22.05	21.34	23	
Channel				3425000	349000	355500	Tune-up limit (dBm)	
Frequency (MHz)				1712.5	1745	1777.5		
5	DFT-s-OFDM	1	1	22.11	21.89	21.30	23	
Channel				344000	349000	354000	Tune-up limit (dBm)	
Frequency (MHz)				1720	1745	1770		
20	CP-OFDM QPSK	1	1	21.78	21.63	21.73	22.5	
20	CP-OFDM 16QAM	1	1	21.43	21.50	21.11	22	
20	CP-OFDM 64QAM	1	1	19.45	19.64	19.21	20	
20	CP-OFDM 256QAM	1	1	19.45	19.64	19.21	20	

DC_5A_46A_N66							
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20		1	1	21.67	21.41	21.92	23
20		1	39	21.65	21.70	22.08	
20		1	77	21.54	21.52	21.25	
20	DFT-s-OFDM PI/2 BPSK	36	1	21.35	21.26	21.22	22
20		36	18	21.49	21.43	21.51	
20		36	36	21.38	21.37	21.38	
20		75	0	21.23	21.16	21.89	
20		1	1	22.21	22.24	22.16	
20	DFT-s-OFDM QPSK	1	39	21.79	21.95	21.63	23
20		1	77	21.80	21.86	21.96	
20		36	1	21.34	21.64	21.56	
20		36	18	21.38	21.22	21.40	
20		36	36	21.35	21.56	21.46	
20		75	0	21.13	21.36	21.38	22
20	DFT-s-	1	1	21.46	21.32	21.12	
20	DFT-s-OFDM	1	1	21.03	20.79	20.38	
20	DFT-s-OFDM	1	1	19.10	18.67	18.35	19.5
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM	1	1	21.75	21.56	22.23	22.5
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM	1	1	22.07	21.99	21.71	22.5
Channel				3425000	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM	1	1	21.85	21.79	21.48	22.5
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	CP-OFDM QPSK	1	1	21.12	21.51	21.38	22
20	CP-OFDM 16QAM	1	1	20.99	21.36	21.09	22
20	CP-OFDM 64QAM	1	1	19.53	19.81	19.40	20.5
20	CP-OFDM 256QAM	1	1	19.53	19.81	19.40	20.5

12A_N66							
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20		1	1	20.38	20.34	20.25	21.5
20		1	39	20.49	20.68	20.24	
20		1	77	20.22	20.25	20.22	
20	DFT-s-OFDM PI/2 BPSK	36	1	20.45	20.29	20.44	21.5
20		36	18	20.47	20.26	20.40	
20		36	36	20.29	20.22	20.33	
20		75	0	20.44	20.28	20.32	
20		1	1	20.53	20.72	20.45	
20	DFT-s-OFDM QPSK	1	39	20.56	20.41	20.26	21.5
20		1	77	20.36	20.52	20.21	
20		36	1	20.45	20.47	20.31	
20		36	18	20.40	20.30	20.29	
20		36	36	20.28	20.19	20.37	
20		75	0	20.46	20.20	20.26	21.5
20	DFT-s-	1	1	20.57	20.40	20.60	
20	DFT-s-OFDM	1	1	20.21	20.30	20.22	
20	DFT-s-OFDM	1	1	20.32	20.02	20.17	21.5
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM	1	1	17.65	17.49	17.83	18.5
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM	1	1	17.72	17.59	18.13	18.5
Channel				3425000	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM	1	1	17.55	17.66	18.15	18.5
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	CP-OFDM QPSK	1	1	20.45	20.23	20.30	21
20	CP-OFDM 16QAM	1	1	20.61	20.28	20.23	21
20	CP-OFDM 64QAM	1	1	20.33	20.02	20.15	21
20	CP-OFDM 256QAM	1	1	20.33	20.02	20.15	21

DC_2A_12A_N66							
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20		1	1	18.23	18.21	17.93	19.5
20		1	39	18.60	18.57	17.71	
20		1	77	18.18	18.50	18.14	
20	DFT-s-OFDM PI/2 BPSK	36	1	18.07	18.31	17.53	19.5
20		36	18	18.33	18.34	17.70	
20		36	36	18.04	18.20	18.04	
20		75	0	18.05	18.15	18.02	
20		1	1	18.45	19.10	18.99	
20		1	39	18.35	18.36	18.87	19.5
20		1	77	18.32	18.27	18.95	
20		1	1	18.33	18.48	17.97	
20	DFT-s-OFDM QPSK	36	18	18.26	18.43	17.97	19.5
20		36	36	18.25	18.35	17.77	
20		75	0	18.31	18.35	17.86	
20		DFT-s-OFDM	1	1	18.56	18.48	
20	DFT-s-OFDM	1	1	18.44	18.24	17.76	19
20	DFT-s-OFDM	1	1	18.26	18.17	17.66	19
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM	1	1	18.38	18.36	18.15	19
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM	1	1	18.17	18.02	17.46	19
Channel				3425000	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM	1	1	18.13	17.99	17.85	19
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	CP-OFDM QPSK	1	1	18.29	18.48	17.85	19
20	CP-OFDM 16QAM	1	1	18.51	18.55	17.77	19
20	CP-OFDM 64QAM	1	1	18.19	18.07	17.23	19
20	CP-OFDM 256QAM	1	1	18.19	18.07	17.23	19

DC_12A_66A_N66							
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20		1	1	17.29	17.51	17.39	18.5
20		1	39	17.68	17.39	17.32	
20		1	77	17.54	17.17	17.45	
20	DFT-s-OFDM PI/2 BPSK	36	1	17.00	17.56	17.17	18.5
20		36	18	17.17	17.38	17.04	
20		36	36	17.36	17.13	17.21	
20		75	0	17.54	17.33	17.22	
20		1	1	17.10	17.77	17.14	
20		1	39	17.14	17.14	17.28	18.5
20		1	77	17.02	17.29	17.32	
20		1	1	17.36	17.62	17.44	
20	DFT-s-OFDM QPSK	36	18	17.44	17.60	17.20	18.5
20		36	36	17.54	17.26	17.39	
20		75	0	17.45	17.42	17.19	
20		DFT-s-OFDM	1	1	17.32	17.06	
20	DFT-s-OFDM	1	1	16.96	17.25	17.42	18
20	DFT-s-OFDM	1	1	17.32	17.18	17.05	18
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM	1	1	17.01	17.18	16.90	18
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM	1	1	17.16	17.24	17.02	18
Channel				3425000	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM	1	1	17.20	17.12	17.12	18
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	CP-OFDM QPSK	1	1	17.27	17.57	16.97	18
20	CP-OFDM 16QAM	1	1	17.46	17.34	16.90	18
20	CP-OFDM 64QAM	1	1	17.68	17.29	17.17	18
20	CP-OFDM 256QAM	1	1	17.47	17.20	17.37	18

DC_2A_46A_N66							
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20		1	1	22.28	22.21	22.10	23
20		1	39	22.11	22.10	21.80	
20		1	77	22.33	22.22	21.70	
20	DFT-s-OFDM PI/2 BPSK	36	1	22.33	22.30	22.00	23
20		36	18	22.13	22.17	21.86	
20		36	36	22.10	22.15	21.84	
20		75	0	22.20	22.10	21.87	
20		1	1	22.34	22.45	21.81	
20	DFT-s-OFDM QPSK	1	39	22.02	22.10	21.62	23
20		1	77	22.03	22.07	21.77	
20		36	1	22.06	22.29	21.97	
20		36	18	22.03	22.26	21.74	
20		36	36	22.06	22.00	21.72	
20		75	0	22.07	22.16	21.94	23
20	DFT-s-OFDM	1	1	22.16	22.21	22.19	
20	DFT-s-OFDM	1	1	21.01	21.03	20.41	
20	DFT-s-OFDM	1	1	19.21	19.06	18.36	19.5
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM	1	1	22.28	22.09	21.91	22.5
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM	1	1	21.99	22.05	21.84	22.5
Channel				3425000	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM	1	1	22.25	21.94	21.74	22.5
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	CP-OFDM QPSK	1	1	21.68	21.66	21.44	22.5
20	CP-OFDM 16QAM	1	1	21.63	21.35	21.14	22.5
20	CP-OFDM 64QAM	1	1	19.63	20.01	19.54	20.5
20	CP-OFDM 256QAM	1	1	19.63	20.01	19.54	20.5

DC_2A_12A_12A_N66							
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20		1	1	17.28	17.35	17.19	18.5
20		1	39	17.40	17.30	17.05	
20		1	77	17.32	17.33	17.22	
20	DFT-s-OFDM PI/2 BPSK	36	1	17.44	17.27	17.24	18.5
20		36	18	17.48	17.44	17.31	
20		36	36	17.58	17.35	17.17	
20		75	0	17.35	17.36	17.15	
20		1	1	17.31	17.76	17.17	
20	DFT-s-OFDM QPSK	1	39	17.44	17.12	17.14	18.5
20		1	77	17.65	17.29	17.13	
20		36	1	17.16	17.49	17.23	
20		36	18	17.46	17.41	17.30	
20		36	36	17.35	17.33	17.22	
20		75	0	17.37	17.38	17.20	18
20	DFT-s-OFDM	1	1	17.55	17.26	17.38	
20	DFT-s-OFDM	1	1	17.17	17.32	17.14	
20	DFT-s-OFDM	1	1	17.23	17.24	17.05	18
Channel				343500	349000	354500	Tune-up limit
Frequency (MHz)				1717.5	1745	1772.5	(dBm)
15	DFT-s-OFDM	1	1	17.51	17.36	16.99	18
Channel				343000	349000	355000	Tune-up limit
Frequency (MHz)				1715	1745	1775	(dBm)
10	DFT-s-OFDM	1	1	17.55	17.45	17.35	18
Channel				3425000	349000	355500	Tune-up limit
Frequency (MHz)				1712.5	1745	1777.5	(dBm)
5	DFT-s-OFDM	1	1	17.43	17.39	17.01	18
Channel				344000	349000	354000	Tune-up limit
Frequency (MHz)				1720	1745	1770	(dBm)
20	CP-OFDM QPSK	1	1	17.44	17.30	17.16	18
20	CP-OFDM 16QAM	1	1	17.45	17.19	17.19	18
20	CP-OFDM 64QAM	1	1	17.30	17.08	17.13	18
20	CP-OFDM 256QAM	1	1	17.41	17.17	17.19	18

DC_13A_N77

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low Channel	Middle Channel	Middle Channel	High Channel	High Channel	Tune-up limit (dBm)	
Channel				650000	652400	654800	657200	659600	662000		
Frequency (MHz)				3750	3786	3822	3858	3894	3930		
100		1	1	22.75	22.84	21.96	22.12	21.91	22.07	23.5	
100		136		22.57	22.39	21.70	21.80	22.59	23.14		
100	DFT-s-OFDM	1	272	21.94	22.14	21.25	21.48	22.03	21.35	23	
100		135	1	21.82	21.72	20.89	21.05	21.15	21.78		
100	Pi/2 BPSK	135	67	22.02	21.74	22.23	22.25	22.84	22.59	23	
100		135	136	21.73	21.09	21.61	21.79	21.81	21.97		
100		270	0	21.37	21.23	20.24	20.46	20.76	21.53	23.5	
100		1	1	23.02	22.88	23.24	23.03	22.14	22.24		
100	DFT-s-OFDM	1	136	22.44	22.35	22.63	22.54	22.63	23.12	23	
100		1	272	22.57	22.70	22.76	22.97	22.96	22.23		
100	QPSK	135	1	22.33	22.38	22.65	22.64	22.16	22.45	23	
100		135	67	22.04	22.14	22.24	22.24	22.11	22.13		
100		135	136	22.18	22.68	21.09	21.23	22.10	22.23	22	
100		270	0	22.42	22.18	21.77	21.96	22.15	22.52		
100	DFT-s-OFDM	1	1	21.88	20.97	21.54	21.43	21.64	22.01	22	
100	DFT-s-OFDM	1	1	20.51	20.31	19.73	19.61	20.07	19.97	23	
100	DFT-s-OFDM	1	1	19.10	19.13	17.74	17.75	18.61	18.10	22	
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low Channel	Middle Channel	Middle Channel	High Channel	High Channel	Tune-up limit (dBm)	
Channel				650000	652400	653332	657200	659600	662000		
Frequency (MHz)				3750	3786	3822	3858	3894	3930		
100	CP-OFDM	1	1	22.38	22.43	21.35	21.42	21.07	21.45	23	
100	CP-OFDM	16QAM	1	1	21.84	22.19	21.68	21.63	20.95	20.83	23
100	CP-OFDM	64QAM	1	1	20.10	20.03	19.87	19.63	19.27	19.14	20
100	CP-OFDM	256QAM	1	1	19.86	17.41	17.01	16.89	16.36	16.19	18

DC_5A_N77

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low Channel	Middle Channel	Middle Channel	High Channel	High Channel	Tune-up limit (dBm)	
Channel				650000	652400	654800	657200	659600	662000		
Frequency (MHz)				3750	3786	3822	3858	3894	3930		
100		1	1	22.62	22.68	22.09	22.13	21.72	22.13	23.5	
100		136		22.47	22.54	21.70	21.69	22.53	23.03		
100	DFT-s-OFDM	1	272	21.90	22.29	21.23	21.37	22.03	21.39	23	
100		135	1	21.90	21.76	20.95	21.08	21.28	22.03		
100	Pi/2 BPSK	135	67	22.28	21.88	22.27	22.07	22.60	22.53	23	
100		135	136	21.96	21.14	21.72	21.56	21.73	22.02		
100		270	0	21.11	21.29	20.35	20.23	20.76	21.58	23.5	
100		1	1	22.81	22.89	23.16	23.23	22.32	22.22		
100	DFT-s-OFDM	1	136	22.65	22.45	22.46	22.68	22.55	23.10	23	
100		1	272	22.69	22.65	22.72	22.89	22.52	22.15		
100	QPSK	135	1	22.35	22.23	22.48	22.54	22.06	22.49	23	
100		135	67	21.98	22.17	22.38	22.14	22.07	22.13		
100		135	136	22.46	22.57	21.06	21.22	22.40	22.40	22.5	
100		270	0	22.18	22.19	21.77	22.00	22.34	22.47		
100	DFT-s-OFDM	1	1	22.00	20.97	21.68	21.54	21.66	22.00	22.5	
100	DFT-s-OFDM	1	1	20.48	20.29	19.79	19.73	19.82	20.09	21	
100	DFT-s-OFDM	1	1	19.19	19.05	17.91	18.00	18.73	18.04	20	
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low Channel	Middle Channel	Middle Channel	High Channel	High Channel	Tune-up limit (dBm)	
Channel				650000	652400	653332	657200	659600	662000		
Frequency (MHz)				3750	3786	3822	3858	3894	3930		
100	CP-OFDM	1	1	22.20	22.27	21.15	21.37	21.23	21.30	23	
100	CP-OFDM	16QAM	1	1	22.07	22.00	21.66	21.84	21.03	21.03	23
100	CP-OFDM	64QAM	1	1	20.24	20.11	19.66	19.72	19.07	19.19	21
100	CP-OFDM	256QAM	1	1	20.02	17.25	16.72	17.00	16.32	16.35	20.5

Mode	Channel	Frequency (MHz)	Average power (dBm)			
			1Mbps	2Mbps	3Mbps	Duty Cycle %
BR / EDR	CH 00	2402	10.72	7.94	8.05	76.80
	CH 39	2441	10.21	7.31	7.38	
	CH 78	2480	11.91	9.43	9.42	
Tune-up Limit			12.5	10	10	
Antenna			Ant 5			

Mode	Channel	Frequency (MHz)	Average power (dBm)	Duty Cycle %
			GFSK	
LE	CH 00	2402	4.71	62.02
	CH 19	2440	4.05	
	CH 39	2480	6.35	
Tune-up Limit			7	
Antenna			Ant 5	

CA_5B(Ant 2)											
Combination:10MHz+10MHz(50RB+50RB)											
PCC Channel	PCC Channel (SCRB)	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				
20450	20450	20549	QPSK	1	0	0	0	1	0	24.21	25
20525	20476	20575	QPSK	1	0	0	0	1	0	24.27	25
20600	20501	20600	QPSK	1	0	0	0	1	0	24.12	25
20450	20450	20549	16QAM	1	0	0	0	1	0	23.66	24
20525	20476	20575	16QAM	1	0	0	0	1	0	23.44	24
20600	20501	20600	16QAM	1	0	0	0	1	0	23.31	24
20450	20450	20549	64QAM	1	0	0	0	1	0	22.38	23
20525	20476	20575	64QAM	1	0	0	0	1	0	22.47	23
20600	20501	20600	64QAM	1	0	0	0	1	0	22.52	23
20450	20450	20549	QPSK	25	25	0	0	1	0	23.45	24
20525	20476	20575	QPSK	25	25	0	0	1	0	23.23	24
20600	20501	20600	QPSK	25	25	0	0	1	0	23.42	24

CA_5B(Ant 0)											
Combination:10MHz+10MHz(50RB+50RB)											
PCC Channel	PCC Channel (SCRB)	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				
20450	20450	20549	QPSK	1	0	0	0	1	0	23.45	24
20525	20476	20575	QPSK	1	0	0	0	1	0	23.52	24
20600	20501	20600	QPSK	1	0	0	0	1	0	23.38	24
20450	20450	20549	16QAM	1	0	0	0	1	0	22.98	24
20525	20476	20575	16QAM	1	0	0	0	1	0	23.01	24
20600	20501	20600	16QAM	1	0	0	0	1	0	23.9	24
20450	20450	20549	64QAM	1	0	0	0	1	0	23.3	24
20525	20476	20575	64QAM	1	0	0	0	1	0	23.49	24
20600	20501	20600	64QAM	1	0	0	0	1	0	23.12	24
20450	20450	20549	QPSK	25	25	0	0	1	0	22.63	23
20525	20476	20575	QPSK	25	25	0	0	1	0	22.57	23
20600	20501	20600	QPSK	25	25	0	0	1	0	22.36	23

CA_66B(Ant 3)											
Combination:20MHz+20MHz(50RB+50RB)											
PCC Channel	PCC Channel (SCRB)	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				
132072	132022	132121	QPSK	1	49	0	0	1	0	19.38	20
132322	132373	132472	QPSK	1	49	0	0	1	0	19.40	20
132572	132523	132622	QPSK	1	49	0	0	1	0	19.51	20
132072	132022	132121	16QAM	1	49	0	0	1	0	19.34	20
132322	132373	132472	16QAM	1	49	0	0	1	0	19.21	20
132572	132523	132622	16QAM	1	49	0	0	1	0	19.24	20
132072	132022	132121	64QAM	1	49	0	0	1	0	19.36	20
132322	132373	132472	64QAM	1	49	0	0	1	0	19.25	20
132572	132523	132622	64QAM	1	49	0	0	1	0	19.44	20
132072	132022	132121	QPSK	50	50	0	0	1	0	18.60	19
132322	132373	132472	QPSK	50	50	0	0	1	0	18.72	19
132572	132523	132622	QPSK	50	50	0	0	1	0	18.73	19

CA_66C(Ant 3)											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (SCRB)	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				
132072	132072	132270	QPSK	1	49	0	0	1	0	19.78	20
132322	132323	132521	QPSK	1	49	0	0	1	0	19.74	20
132572	132374	132572	QPSK	1	49	0	0	1	0	19.64	20
132072	132072	132270	16QAM	1	49	0	0	1	0	19.08	20
132322	132323	132521	16QAM	1	49	0	0	1	0	19.03	20
132572	132374	132572	16QAM	1	49	0	0	1	0	19.02	20
132072	132072	132270	64QAM	1	49	0	0	1	0	19.14	20
132322	132323	132521	64QAM	1	49	0	0	1	0	19.09	20
132572	132374	132572	64QAM	1	49	0	0	1	0	19.21	20
132072	132072	132270	QPSK	50	50	0	0	1	0	18.96	19.5
132322	132323	132521	QPSK	50	50	0	0	1	0	18.86	19.5
132572	132374	132572	QPSK	50	50	0	0	1	0	18.64	19.5

2CC LTE Uplink CA													
Configure	CA Configuration	Ant	PCC					SCC				Power	
			Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	UL Channel	UL Fre. (MHz)	Measured Power(dBm)	Tune-up limit(dBm)
Inter-band	CA_2A-4A	Ant 3	2	20	18900	1880	QPSK/1#0	4	20	20175	1732.5	22.15	22.5
	CA_2A-5A	Ant 3	2	20	18900	1880	QPSK/1#0	5	20	20525	836.5	21.72	22.5
	CA_2A-12A	Ant 3	2	20	18900	1880	QPSK/1#0	12	10	23060	704	21.33	22.0
	CA_2A-13A	Ant 3	2	20	18900	1880	QPSK/1#0	13	10	23230	782	22.51	23.0
	CA_2A-66A	Ant 3	2	20	18900	1880	QPSK/1#0	66	20	132322	1745	22.68	23.0
	CA_4A-5A	Ant 3	4	20	20175	1732.5	QPSK/1#0	5	20	20525	836.5	21.36	22.0
	CA_4A-13A	Ant 3	4	20	20175	1732.5	QPSK/1#0	13	10	23230	782	20.21	21.0
	CA_5A-66A	Ant 2	5	20	20525	836.5	QPSK/1#0	66	20	132322	1745	23.67	24.0
CA_12A-66A	Ant 2	12	10	23060	704	QPSK/1#0	66	20	132322	1745	22.63	23.0	
CA_13A-66A	Ant 2	13	10	23230	782	QPSK/1#0	66	20	132322	1745	23.97	24.5	

2CC LTE Downlink CA													
Configure	CA Configuration	Ant	PCC				SCC			Power			
			Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offse)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Inter-band	CA_2A-12A	Ant 3	2	20	18900	1880	QPSK/1#0	12	10	5095	737.5	20.51	21.73
	CA_4A-66A	Ant 3	4	20	20175	1732.5	QPSK/1#0	66	20	66886	2155	20.35	21.54

3CC LTE Downlink CA																	
Configure	CA Configuration	Ant	PCC				SCC1			SCC2			Power				
			Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offse)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Inter-band	CA_2A-2A-12A	Ant 3	2	20	18900	1880	QPSK/1#0	2	20	900	1960	12	10	5095	737.5	20.41	21.73
	CA_2A-4A-12A	Ant 3	2	20	18900	1880	QPSK/1#0	4	20	2175	2132.5	12	10	5095	737.5	22.02	21.73
	CA_13A-4A-2A	Ant 3	13	10	23230	782	QPSK/1#0	4	20	2175	2132.5	2	20	900	1960	24.11	24.2
	CA_66A-66C	Ant 3	66	20	132322	1745	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	20.51	21.61

4CC LTE Downlink CA																					
Configure	CA Configuration	Ant	PCC				SCC1			SCC2			SCC3			Power					
			Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offse)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Inter-band	CA_2A-2A-4A-4A	Ant 3	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	4	20	2175	2132.5	4	20	2175	2132.5	20.98	21.73
	CA_2A-2A-4A-5A	Ant 3	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	4	20	2175	2132.5	5	10	2450	874	20.86	21.73
	CA_2A-2A-4A-12A	Ant 3	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	4	20	2175	2132.5	12	10	5060	704	20.98	21.73
	CA_2A-2A-5A-12A	Ant 3	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	5	10	2450	874	12	10	5060	704	20.91	21.73
	CA_2A-2A-5A-66A	Ant 3	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	5	10	2450	874	66	20	66886	2155	20.67	21.73
	CA_2A-2A-12A-66A	Ant 3	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	12	10	5060	704	66	20	66886	2155	20.74	21.73
	CA_2A-2A-13A-66A	Ant 3	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	13	10	5230	751	66	20	66886	2155	20.81	21.73
	CA_2A-2A-66A-66A	Ant 3	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	66	20	66886	2155	66	20	66886	2155	20.87	21.73
	CA_2A-2A-66B	Ant 3	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	66	20	66886	2155	66	20	66886	2155	20.65	21.73
	CA_2A-2A-66C	Ant 3	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	66	20	66886	2155	66	20	66886	2155	20.58	21.73
	CA_2A-4A-4A-5A	Ant 3	2	20	19100	1900	QPSK/1#0	4	20	2175	2132.5	4	20	2175	2132.5	5	10	2450	874	20.67	21.73
	CA_2A-4A-5B	Ant 3	2	20	19100	1900	QPSK/1#0	4	20	2175	2132.5	4	20	2175	2132.5	5	10	2450	874	20.68	21.73
	CA_2A-5A-66A-66A	Ant 3	2	20	19100	1900	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	20.79	21.73
	CA_2A-5A-66B	Ant 3	2	20	19100	1900	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	20.76	21.73
	CA_2A-5A-66C	Ant 3	2	20	19100	1900	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	20.81	21.73
	CA_2A-2A-5B	Ant 3	2	20	19100	1900	QPSK/1#0	2	20	1100	1980	5	10	2450	874	5	10	2450	874	20.63	21.73
	CA_2A-5B-66A	Ant 3	2	20	19100	1900	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	20.71	21.73
	CA_2A-13A-66A-66A	Ant 3	2	20	19100	1900	QPSK/1#0	13	10	5230	751	66	20	66886	2155	66	20	66886	2155	20.65	21.73
	CA_2A-13A-66B	Ant 3	2	20	19100	1900	QPSK/1#0	13	10	5230	751	66	20	66886	2155	66	20	66886	2155	20.69	21.73
	CA_2A-13A-66C	Ant 3	2	20	19100	1900	QPSK/1#0	13	10	5230	751	66	20	66886	2155	66	20	66886	2155	20.44	21.73
	CA_2A-66A-66A-66A	Ant 3	2	20	19100	1900	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	20.71	21.73
	CA_4A-4A-5B	Ant 3	4	20	20175	1732.5	QPSK/1#0	4	20	2175	2132.5	5	10	2450	874	5	10	2450	874	19.32	21.54
	CA_5A-5A-66A-66A	Ant 2	5	10	20525	836.5	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	24.23	24.47
	CA_5A-5A-66B	Ant 2	5	10	20525	836.5	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	24.12	24.47
	CA_5A-5A-66C	Ant 2	5	10	20525	836.5	QPSK/1#0	5	10	2450	874	66	20	66886	2155	66	20	66886	2155	24.22	24.47
	CA_5B-66B	Ant 2	5	10	20525	836.5	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	24.11	24.47
	CA_5B-66C	Ant 2	5	10	20525	836.5	QPSK/1#0	66	20	66886	2155	66	20	66886	2155	66	20	66886	2155	24.14	24.47