



Full&Default Power Mode/Reduced Power for DSI2&4

<GSM>

GSM850_Ant 1 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	832.4	848.8	22.50	824.2	832.4	848.8	24.50
GSM 1 Tx slot	32.15	32.33	32.31	33.50	23.15	23.33	23.31	24.50
GPRS 1 Tx slot	32.11	32.27	32.25	33.50	23.11	23.27	23.25	24.50
GPRS 2 Tx slots	30.61	30.65	30.56	31.50	24.61	24.65	24.56	25.50
GPRS 3 Tx slots	29.88	29.70	28.86	29.50	24.42	24.44	24.40	25.24
GPRS 4 Tx slots	26.87	26.89	26.62	27.50	23.67	23.69	23.62	24.50
EDGE 1 Tx slot	25.78	26.03	25.81	27.50	16.78	17.03	16.81	18.50
EDGE 2 Tx slots	23.92	24.02	23.90	25.50	17.92	18.02	17.90	19.50
EDGE 3 Tx slots	21.66	21.68	21.60	23.50	17.40	17.42	17.34	19.24
EDGE 4 Tx slots	20.54	20.56	20.52	22.00	17.54	17.56	17.52	19.00

<WCDMA>

Band TX Channel	WCDMA V_Ant 1 RX Channel			Tune-up Limit (dBm)
	4132	4182	4233	
Frequency (MHz)	832.4	835.4	836.6	24.00
3GPP Rel 99 AMR 12.2Kbps	22.65	22.73	22.70	24.00
3GPP Rel 99 RMC 12.2Kbps	22.69	22.75	22.72	24.00
3GPP Rel 6 HSDPA Subtest-1	21.89	21.79	21.72	23.00
3GPP Rel 6 HSDPA Subtest-2	21.76	21.72	21.80	23.00
3GPP Rel 6 HSDPA Subtest-3	21.17	21.25	21.15	22.50
3GPP Rel 6 HSDPA Subtest-4	21.29	21.14	21.31	22.50
3GPP Rel 8 DC-HSDPA Subtest-1	21.59	21.51	21.72	23.00
3GPP Rel 8 DC-HSDPA Subtest-2	21.62	21.74	21.78	23.00
3GPP Rel 8 DC-HSDPA Subtest-3	21.29	21.36	21.10	22.60
3GPP Rel 8 DC-HSDPA Subtest-4	21.30	21.15	21.20	22.50
3GPP Rel 6 HSUPA Subtest-1	21.73	21.63	21.70	23.00
3GPP Rel 6 HSUPA Subtest-2	19.66	19.89	19.81	21.00
3GPP Rel 6 HSUPA Subtest-3	20.69	20.71	20.62	22.00
3GPP Rel 6 HSUPA Subtest-4	19.76	19.82	19.80	21.00
3GPP Rel 6 HSUPA Subtest-5	21.88	21.85	21.73	23.00



LTE Band 41 Ant 2

Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel										
				39750	40185	40620	41055	41490		
				2593.5	2548.3	2593	2637.8	2682.5		
Frequency (MHz)										
20	QPSK	1	0	22.45	22.51	22.61	22.57	22.48	24	0
20	QPSK	1	49	22.41	22.38	22.46	22.36	22.35		
20	QPSK	1	99	22.30	22.24	22.21	22.27	22.38		
20	QPSK	50	0	21.31	21.33	21.35	21.15	21.29	23	1
20	QPSK	50	24	21.03	21.11	21.19	21.11	21.02		
20	QPSK	50	50	21.28	21.09	21.07	21.15	21.00		
20	QPSK	100	0	21.24	21.11	21.25	21.07	21.23	23	1
20	16QAM	1	0	22.30	22.23	22.33	22.29	22.30		
20	16QAM	1	49	22.11	22.08	22.19	22.00	22.08		
20	16QAM	1	99	22.17	21.98	22.19	22.15	22.16	22	2
20	16QAM	50	0	21.31	21.42	21.48	21.32	21.37		
20	16QAM	50	24	21.37	21.38	21.45	21.38	21.43		
20	16QAM	50	50	21.25	21.37	21.41	21.39	21.21	22	2
20	16QAM	100	0	21.27	21.28	21.29	21.08	21.10		
20	64QAM	1	0	21.11	21.25	21.24	21.03	21.20		
20	64QAM	1	49	21.22	21.10	21.30	21.20	21.29	22	2
20	64QAM	1	99	20.95	20.92	21.12	21.10	21.00		
20	64QAM	50	0	19.89	19.94	20.06	20.06	20.08		
20	64QAM	50	24	19.87	19.82	20.01	19.87	19.95	21	3
20	64QAM	50	50	19.91	19.93	19.98	19.88	19.89		
20	64QAM	100	0	20.21	20.19	20.37	20.25	20.39		
Channel										
				39750	40173	40620	41068	41515		
				2593.5	2548.3	2593	2637.8	2682.5		
Frequency (MHz)										
15	QPSK	1	0	22.37	22.42	22.39	22.44	22.46	24.00	0
15	QPSK	1	37	22.31	22.37	22.33	22.17	22.30		
15	QPSK	1	74	22.12	22.07	22.17	22.20	22.27		
15	QPSK	36	0	21.13	21.32	21.16	21.16	21.09	23	1
15	QPSK	36	20	21.23	21.23	21.27	21.17	21.17		
15	QPSK	36	39	21.82	21.22	21.33	21.27	21.25		
15	QPSK	75	0	21.18	21.03	21.18	21.07	21.16	23	1
15	16QAM	1	0	22.19	22.07	22.21	22.13	22.25		
15	16QAM	1	37	22.13	21.93	22.19	21.94	22.07		
15	16QAM	1	74	22.07	21.85	22.05	22.00	22.00	22	2
15	16QAM	36	0	21.12	21.24	21.37	21.18	21.33		
15	16QAM	36	20	21.32	21.24	21.45	21.36	21.29		
15	16QAM	36	39	21.18	21.25	21.38	21.19	21.12	22	2
15	16QAM	75	0	21.23	21.17	21.27	20.92	20.92		
15	64QAM	1	0	20.91	21.24	21.17	20.87	21.16		
15	64QAM	1	37	21.03	20.99	21.10	21.14	21.21	22	2
15	64QAM	1	74	20.86	20.89	20.92	21.08	20.93		
15	64QAM	36	0	19.80	19.90	19.97	20.06	19.94		
15	64QAM	36	20	19.84	19.79	19.83	19.71	19.91	21	3
15	64QAM	36	39	19.76	19.72	19.95	19.76	19.77		
15	64QAM	75	0	20.11	20.03	20.36	20.11	20.29		
Channel										
				39700	40160	40620	41080	41540		
				2591	2547	2593	2638	2685		
Frequency (MHz)										
10	QPSK	1	0	22.29	22.37	22.62	22.46	22.28	24.00	0
10	QPSK	1	25	22.24	22.29	22.41	22.18	22.14		
10	QPSK	1	49	22.20	22.26	22.22	22.16	22.19		
10	QPSK	25	0	21.27	21.22	21.25	21.12	21.10	23	1
10	QPSK	25	12	21.12	21.28	21.24	21.14	21.10		
10	QPSK	25	25	21.12	21.32	21.19	21.31	21.09		
10	16QAM	1	0	22.27	22.18	22.33	22.22	22.30	23	1
10	16QAM	1	25	21.93	22.10	21.98	22.01	22.02		
10	16QAM	1	49	22.09	21.83	22.20	22.11	21.95		
10	16QAM	25	0	21.23	21.37	21.36	21.26	21.20	22	2
10	16QAM	25	12	21.36	21.20	21.32	21.40	21.25		
10	16QAM	25	25	21.14	21.23	21.37	21.24	21.01		
10	16QAM	50	0	21.19	21.23	21.08	20.94	21.05	22	2
10	64QAM	1	0	20.91	21.19	21.10	20.89	21.02		
10	64QAM	1	25	21.08	21.10	21.18	20.98	21.09		
10	64QAM	1	49	20.79	20.89	20.92	21.11	20.88	21	3
10	64QAM	25	0	19.80	19.78	19.93	19.83	20.02		
10	64QAM	25	12	19.85	19.79	19.91	19.71	19.82		
10	64QAM	25	25	19.88	19.78	19.87	19.74	19.90	21	3
10	64QAM	50	0	20.03	20.15	20.38	20.03	20.33		
				2591.5	2546.8	2593	2640.30	2687.5		
Channel										
				2591.5	2546.8	2593	2640.30	2687.5		
Frequency (MHz)										
5	QPSK	1	0	22.35	22.41	22.54	22.51	22.43	24.00	0
5	QPSK	1	12	22.25	22.25	22.30	22.34	22.28		
5	QPSK	1	24	22.26	22.19	22.23	22.27	22.30		
5	QPSK	12	0	21.12	21.27	21.21	21.07	21.16	23	1
5	QPSK	12	7	21.09	21.12	21.17	21.18	21.22		
5	QPSK	12	15	21.11	21.31	21.23	21.10	21.25		
5	QPSK	25	0	21.15	21.35	21.26	21.16	21.22	23	1
5	16QAM	1	0	22.22	22.22	22.27	22.15	22.09		
5	16QAM	1	12	22.06	21.98	22.17	21.95	22.03		
5	16QAM	1	24	22.12	21.98	22.17	22.04	22.16	23	1
5	16QAM	12	0	21.25	21.30	21.39	21.20	21.23		
5	16QAM	12	7	21.19	21.19	21.25	21.29	21.29		
5	16QAM	12	15	21.20	21.38	21.35	21.32	21.19	22	2
5	16QAM	25	0	21.09	21.07	21.14	20.88	20.92		



Reduced Power for DS13&6

GSM550_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	324.2	335.4	348.8	324.2	335.4	348.8		
Frequency (MHz)								
GSM 1 Tx slot	32.15	32.33	32.31	33.50	23.15	23.33	23.31	24.50
GPRS 1 Tx slot	32.11	32.27	32.25	33.50	23.11	23.27	23.25	24.50
GPRS 2 Tx slots	30.61	30.65	30.56	31.50	24.61	24.65	24.56	25.50
GPRS 3 Tx slots	28.88	28.70	28.69	29.50	24.42	24.44	24.40	25.24
GPRS 4 Tx slots	26.67	26.89	26.62	27.50	23.67	23.69	23.62	24.50
EDGE 1 Tx slot	25.78	26.03	25.81	27.50	16.78	17.03	16.81	18.50
EDGE 2 Tx slots	23.92	24.02	23.90	25.50	17.92	18.02	17.90	19.50
EDGE 3 Tx slots	21.66	21.88	21.60	23.50	17.40	17.42	17.34	19.24
EDGE 4 Tx slots	20.54	20.56	20.52	22.00	17.54	17.56	17.52	19.00

<WCDMA>

Band	WCDMA V_Ant 1			Tune-up Limit (dBm)	
	4132	4162	4233		
TX Channel	437	447	448		
Rx Channel	437	447	448		
Frequency (MHz)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	22.65	22.73	22.70	24.00
3GPP Rel 99	RMCD 12.2Kbps	22.69	22.75	22.72	24.00
3GPP Rel 6	HSDPA Subtest-1	21.69	21.79	21.72	23.00
3GPP Rel 6	HSDPA Subtest-2	21.76	21.72	21.80	23.00
3GPP Rel 6	HSDPA Subtest-3	21.17	21.25	21.15	22.50
3GPP Rel 6	HSDPA Subtest-4	21.29	21.14	21.31	22.50
3GPP Rel 6	DC-HSDPA Subtest-1	21.59	21.81	21.72	23.00
3GPP Rel 6	DC-HSDPA Subtest-2	21.62	21.74	21.78	23.00
3GPP Rel 6	DC-HSDPA Subtest-3	21.29	21.36	21.10	22.50
3GPP Rel 6	DC-HSDPA Subtest-4	21.30	21.15	21.20	22.50
3GPP Rel 6	HSUPA Subtest-1	21.73	21.83	21.70	23.00
3GPP Rel 6	HSUPA Subtest-2	19.66	19.69	19.81	21.00
3GPP Rel 6	HSUPA Subtest-3	20.69	20.71	20.62	22.00
3GPP Rel 6	HSUPA Subtest-4	19.76	19.62	19.80	21.00
3GPP Rel 6	HSUPA Subtest-5	21.68	21.65	21.73	23.00



LTE Band 41 Ant 2

Channel	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel									
Frequency (MHz)									
20	39750	40185	40620	41055	41490	21	0		
20	2593	2593	2593	2593	2593				
20	19.42	19.48	19.51	19.45	19.49				
20	19.29	19.43	19.47	19.36	19.44				
20	19.36	19.45	19.36	19.32	19.38				
20	18.39	18.50	18.56	18.51	18.48				
20	18.29	18.46	18.47	18.37	18.50				
20	18.42	18.48	18.36	18.32	18.43				
20	18.37	18.50	18.52	18.46	18.45				
20	18.23	18.40	18.38	18.31	18.46				
20	18.32	18.40	18.28	18.19	18.29	20	1		
20	18.25	18.45	18.47	18.37	18.41				
20	17.40	17.56	17.54	17.45	17.49				
20	17.26	17.44	17.53	17.34	17.48				
20	17.38	17.50	17.35	17.30	17.40				
20	17.41	17.50	17.55	17.41	17.50				
20	17.25	17.41	17.38	17.29	17.48				
20	17.37	17.42	17.25	17.15	17.30				
20	17.20	17.44	17.42	17.32	17.35				
20	16.43	16.51	16.54	16.45	16.52				
20	16.25	16.48	16.50	16.32	16.55	19	2		
20	16.37	16.48	16.35	16.34	16.36				
20	16.39	16.44	16.54	16.45	16.53				
Channel									
Frequency (MHz)									
15	39762	40173	40620	41068	41516			21.00	0
15	2503.5	2548.3	2593	2637.8	2682.5				
15	19.37	19.37	19.42	19.37	19.45				
15	19.35	19.33	19.44	19.30	19.39				
15	19.29	19.39	19.24	19.27	19.31				
15	18.31	18.43	18.42	18.47	18.42				
15	18.19	18.37	18.33	18.23	18.37				
15	18.37	18.34	18.28	18.24	18.40				
15	18.28	18.38	18.39	18.43	18.40				
15	18.17	18.33	18.27	18.23	18.36				
15	18.19	18.30	18.12	18.05	18.20	20	1		
15	18.19	18.37	18.34	18.23	18.35				
15	17.37	17.44	17.42	17.35	17.40				
15	17.14	17.33	17.44	17.29	17.39				
15	17.55	17.41	17.28	17.16	17.27				
15	17.27	17.41	17.42	17.26	17.38				
15	17.30	17.33	17.28	17.17	17.39				
15	17.32	17.34	17.12	17.10	17.15				
15	17.36	17.40	17.30	17.24	17.25				
15	16.34	16.38	16.43	16.42	16.47				
15	16.15	16.37	16.41	16.27	16.41	19	2		
15	16.25	16.43	16.29	16.20	16.28				
15	16.35	16.41	16.50	16.34	16.40				
Channel									
Frequency (MHz)									
10	39700	40160	40620	41080	41540			20	1
10	2591	2597	2593	2593	2595				
10	19.36	19.39	19.47	19.35	19.46				
10	19.21	19.37	19.42	19.31	19.35				
10	19.30	19.38	19.22	19.18	19.23				
10	18.29	18.35	18.47	18.40	18.41				
10	18.22	18.40	18.34	18.24	18.41				
10	18.38	18.40	18.29	18.20	18.29				
10	18.34	18.42	18.39	18.39	18.38				
10	18.15	18.30	18.31	18.17	18.33				
10	18.21	18.33	18.18	18.07	18.23	20	1		
10	18.16	18.35	18.41	18.23	18.26				
10	17.31	17.52	17.50	17.36	17.46				
10	17.21	17.36	17.42	17.27	17.44				
10	17.27	17.43	17.21	17.21	17.30				
10	17.34	17.37	17.50	17.36	17.47				
10	17.13	17.26	17.28	17.23	17.42				
10	17.24	17.30	17.19	17.05	17.27				
10	17.12	17.39	17.31	17.25	17.23				
10	16.33	16.44	16.48	16.30	16.40				
10	16.20	16.38	16.45	16.27	16.44	19	2		
10	16.28	16.42	16.32	16.23	16.29				
10	16.23	16.33	16.47	16.32	16.40				
Channel									
Frequency (MHz)									
5	39762	40148	40620	41093	41560			21.00	0
5	2498.5	2545.8	2593	2640.30	2687.5				
5	19.35	19.34	19.44	19.30	19.40				
5	19.23	19.29	19.33	19.22	19.41				
5	19.29	19.32	19.30	19.27	19.23				
5	18.31	18.43	18.52	18.44	18.39				
5	18.15	18.40	18.36	18.24	18.41				
5	18.31	18.35	18.28	18.18	18.39				
5	18.24	18.43	18.37	18.37	18.37				
5	18.16	18.29	18.30	18.24	18.33				
5	18.20	18.30	18.16	18.11	18.19	20	1		
5	18.13	18.32	18.40	18.28	18.35				
5	17.27	17.52	17.45	17.35	17.41				
5	17.12	17.31	17.43	17.20	17.41				
5	17.23	17.43	17.22	17.16	17.29				
5	17.37	17.40	17.42	17.32	17.43				



Reduced Power for DSIS

<GSM>

GSM850_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	832.4	848.8	(dBm)	824.2	832.4	848.8	(dBm)
GSM 1 Tx slot	32.15	32.33	32.31	33.50	23.15	23.33	23.31	24.50
GPRS 1 Tx slot	32.11	32.27	32.25	33.50	23.11	23.27	23.25	24.50
GPRS 2 Tx slots	30.61	30.65	30.56	31.50	24.61	24.65	24.56	25.50
GPRS 3 Tx slots	29.88	29.70	28.86	29.50	24.42	24.44	24.40	25.24
GPRS 4 Tx slots	26.87	26.89	26.62	27.50	23.67	23.69	23.62	24.50
EDGE 1 Tx slot	25.78	26.03	25.81	27.50	16.78	17.03	16.81	18.50
EDGE 2 Tx slots	23.92	24.02	23.90	25.50	17.92	18.02	17.90	19.50
EDGE 3 Tx slots	21.66	21.68	21.60	23.50	17.40	17.42	17.34	19.24
EDGE 4 Tx slots	20.54	20.56	20.52	22.00	17.54	17.56	17.52	19.00

<WCDMA>

Band	WCDMA V_Ant 1			Tune-up Limit (dBm)
	4132	4182	4233	
TX Channel	437	447	448	Limit
Rx Channel	437	447	448	(dBm)
Frequency (MHz)	826.4	836.4	846.6	
3GPP Rel 99 AMR 12.2Kbps	22.65	22.73	22.70	24.00
3GPP Rel 99 RMC 12.2Kbps	22.69	22.75	22.72	24.00
3GPP Rel 6 HSDPA Subtest-1	21.89	21.79	21.72	23.00
3GPP Rel 6 HSDPA Subtest-2	21.76	21.72	21.80	23.00
3GPP Rel 6 HSDPA Subtest-3	21.17	21.25	21.15	22.50
3GPP Rel 6 HSDPA Subtest-4	21.29	21.14	21.31	22.50
3GPP Rel 8 DC-HSDPA Subtest-1	21.59	21.51	21.72	23.00
3GPP Rel 8 DC-HSDPA Subtest-2	21.62	21.74	21.78	23.00
3GPP Rel 8 DC-HSDPA Subtest-3	21.29	21.36	21.10	22.60
3GPP Rel 8 DC-HSDPA Subtest-4	21.30	21.15	21.20	22.50
3GPP Rel 6 HSUPA Subtest-1	21.73	21.63	21.70	23.00
3GPP Rel 6 HSUPA Subtest-2	19.66	19.89	19.81	21.00
3GPP Rel 6 HSUPA Subtest-3	20.69	20.71	20.62	22.00
3GPP Rel 6 HSUPA Subtest-4	19.76	19.82	19.80	21.00
3GPP Rel 6 HSUPA Subtest-5	21.68	21.65	21.73	23.00

LTE Band 41 Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2503.5	2547	2593	2637.5	2682.5		
20	QPSK	1	0	21.91	21.98	22.14	22.05	21.90	23.5	0
20	QPSK	1	49	21.85	21.89	22.01	21.95	21.78		
20	QPSK	1	99	21.80	21.89	22.03	21.86	21.83		
20	QPSK	50	0	20.91	21.02	21.16	21.02	20.92	22.5	1
20	QPSK	50	24	20.80	20.93	21.05	20.95	20.72		
20	QPSK	50	50	20.77	20.85	21.04	20.92	20.86		
20	QPSK	100	0	20.92	20.92	21.14	21.07	20.90	22.5	1
20	16QAM	1	0	21.05	20.99	20.95	21.02	20.97		
20	16QAM	1	49	20.97	20.86	20.84	20.91	20.87		
20	16QAM	1	99	21.00	20.88	20.84	20.90	20.90	21.5	2
20	16QAM	50	0	19.95	20.03	20.12	20.04	19.90		
20	16QAM	50	24	19.76	19.95	20.03	19.95	19.74		
20	16QAM	50	50	19.75	19.89	20.09	19.83	19.88	21.5	2
20	16QAM	100	0	19.88	19.83	20.08	20.04	19.89		
20	64QAM	1	0	20.16	20.18	20.19	20.20	20.23		
20	64QAM	1	49	20.03	20.03	20.08	20.17	20.13	21.5	2
20	64QAM	1	99	20.12	20.12	20.09	20.16	20.19		
20	64QAM	50	0	18.94	19.08	19.17	19.00	18.96		
20	64QAM	50	24	18.74	18.94	19.07	18.98	18.74	20.5	3
20	64QAM	50	50	18.78	18.83	19.14	18.97	18.84		
20	64QAM	100	0	18.87	18.89	19.08	19.09	18.85		
Channel				39725	40173	40620	41068	41516		
Frequency (MHz)				2503.5	2546.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.87	21.86	22.10	21.93	21.84	23.50	0
15	QPSK	1	37	21.90	21.75	21.96	21.88	21.67		
15	QPSK	1	74	21.86	21.89	21.90	21.88	21.75		
15	QPSK	36	0	20.80	20.88	21.09	20.98	20.85	22.5	1
15	QPSK	36	20	20.73	20.82	20.97	20.88	20.61		
15	QPSK	36	39	20.88	20.81	20.98	20.88	20.71		
15	QPSK	75	0	20.83	20.86	21.04	20.97	20.78	22.5	1
15	16QAM	1	0	21.00	20.92	20.92	20.90	20.91		
15	16QAM	1	37	20.88	20.77	20.75	20.80	20.80		
15	16QAM	1	74	20.93	20.77	20.78	20.87	20.80	21.5	2
15	16QAM	36	0	19.90	19.91	20.08	20.01	19.79		
15	16QAM	36	20	19.69	19.94	19.98	19.83	19.80		
15	16QAM	36	39	19.67	19.78	19.99	19.90	19.83	21.5	2
15	16QAM	75	0	19.81	19.85	20.02	19.94	19.80		
15	64QAM	1	0	20.13	20.09	20.10	20.06	20.17		
15	64QAM	1	37	19.88	19.91	19.97	20.11	20.00	21.5	2
15	64QAM	1	74	20.07	20.02	20.04	20.02	20.12		
15	64QAM	36	0	18.91	18.98	19.10	18.91	18.83		
15	64QAM	36	20	18.62	18.79	18.96	18.95	18.69	20.5	3
15	64QAM	36	39	18.72	18.82	19.00	18.91	18.72		
15	64QAM	75	0	18.82	18.86	18.94	18.98	18.74		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2638	2685		
10	QPSK	1	0	21.81	21.90	22.02	21.97	21.84	23.50	0
10	QPSK	1	25	21.79	21.86	21.87	21.82	21.74		
10	QPSK	1	49	21.73	21.84	21.94	21.85	21.73		
10	QPSK	25	0	20.78	20.89	21.03	20.93	20.78	22.5	1
10	QPSK	25	12	20.72	20.90	20.94	20.82	20.68		
10	QPSK	25	25	20.74	20.70	20.99	20.82	20.82		
10	QPSK	50	0	20.80	20.86	21.09	21.04	20.82	22.5	1
10	16QAM	1	0	20.96	20.91	20.88	20.94	20.84		
10	16QAM	1	25	20.85	20.75	20.70	20.88	20.80		
10	16QAM	1	49	20.95	20.80	20.80	20.84	20.79	21.5	2
10	16QAM	25	0	19.97	19.90	20.04	19.94	19.81		
10	16QAM	25	12	19.63	19.88	19.93	19.82	19.67		
10	16QAM	25	25	19.65	19.78	20.04	19.83	19.80	21.5	2
10	64QAM	50	0	19.94	19.83	19.96	19.91	19.82		
10	64QAM	1	0	20.06	20.12	20.13	20.13	20.17		
10	64QAM	1	25	19.91	19.94	19.98	20.07	20.06	21.5	2
10	64QAM	1	49	20.03	20.07	19.95	20.04	20.12		
10	64QAM	25	0	18.87	18.94	19.10	18.88	18.90		
10	64QAM	25	12	18.65	18.89	18.98	18.83	18.62	20.5	3
10	64QAM	25	25	18.75	18.82	19.06	18.93	18.74		
10	64QAM	50	0	18.78	18.81	18.99	19.02	18.78		
Channel				39725	40168	40620	41093	41550		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	21.85	21.87	22.08	21.97	21.79	23.50	0
5	QPSK	1	12	21.73	21.82	21.94	21.81	21.67		
5	QPSK	1	24	21.69	21.83	21.99	21.90	21.71		
5	QPSK	12	0	20.84	20.89	21.07	20.89	20.87	22.5	1
5	QPSK	12	7	20.72	20.87	20.96	20.81	20.63		
5	QPSK	12	15	20.74	20.81	20.96	20.87	20.73		
5	QPSK	25	0	20.78	20.83	21.00	20.97	20.87	22.5	1
5	16QAM	1	0	20.90	20.90	20.87	20.96	20.82		
5	16QAM	1	12	20.89	20.77	20.81	20.87	20.83		
5	16QAM	1	24	20.96	20.79	20.71	20.86	20.77	21.5	2
5	16QAM	12	0	19.90	19.89	19.99	19.90	19.83		
5	16QAM	12	7	19.94	19.89	19.94	19.90	19.80		
5	16QAM	12	15	19.70	19.86	20.04	19.84	19.83	21.5	2
5	64QAM	25	0	19.73	19.85	20.01	19.96	19.78		
5	64QAM	1	0	20.12	20.11	20.04	20.07	20.18		
5	64QAM	1	12	19.91	19.94	19.96	20.09	20.05	21.5	2
5	64QAM	1	24	20.07	20.05	20.05	20.04	20.12		
5	64QAM	12	0	18.62	18.69	19.04	18.89	18.87		
5	64QAM	12	7	18.60	18.88	18.93	18.90	18.64	20.5	3
5	64QAM	12	15	18.73	18.69	18.99	18.84	18.71		
5	64QAM	25	0	18.78	18.76	18.98	18.95	18.74		



2CA DL

CA List	PCC							SCC				Power	
	LTE Band	BW Art	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
	CA_5A-7A	Band 5	Ant1	10M	835.5	2025	QPSK	1 0	Band 7	20M	2655	3100	22.61
	Band 7	Ant2	20M	2535	21100	QPSK	1 0	Band 5	10M	881.5	2525	22.71	22.72
CA_7A-7A	Band 7	Ant2	20M	2535	21100	QPSK	1 0	Band 7	5M	3887.5	3425	22.54	22.72
CA_41A-41A	Band 41	Ant2	20M	2593	49820	QPSK	1 0	Band 41	5M	3887.5	41665	22.40	22.61
CA_7B	Band 7	Ant2	15M	2535	21100	QPSK	1 0	Band 7	5M	3544.3	3193	22.51	22.52
CA_7C	Band 7	Ant2	20M	2535	21100	QPSK	1 0	Band 7	20M	3554.8	3298	22.59	22.72
CA_41C	Band 41	Ant2	20M	2593	49820	QPSK	1 0	Band 41	20M	3812.8	40818	22.48	22.61



Uplink CA Power Full power&DSI2

CA_7C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	22.52	24.00
21100	21298	QPSK	1	99	1	0	22.63	24.00
21350	21152	QPSK	1	0	1	99	22.58	24.00

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.31	24.00
40185	40383	QPSK	1	99	1	0	22.35	24.00
40620	40818	QPSK	1	99	1	0	22.43	24.00
41055	41253	QPSK	1	99	1	0	22.36	24.00
41490	41292	QPSK	1	0	1	99	22.37	24.00

Uplink CA Power DSI3&6

CA_7C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	15.22	16.50
21100	21298	QPSK	1	99	1	0	14.88	16.50
21350	21152	QPSK	1	0	1	99	15.69	16.50

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	19.37	21.00
40185	40383	QPSK	1	99	1	0	19.41	21.00
40620	40818	QPSK	1	99	1	0	19.37	21.00
41055	41253	QPSK	1	99	1	0	19.38	21.00
41490	41292	QPSK	1	0	1	99	19.4	21.00



Uplink CA Power DSI5

CA_7C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	99	1	0	19.22	20.50
21100	21298	QPSK	1	99	1	0	19.07	20.50
21350	21152	QPSK	1	0	1	99	19.61	20.50

CA_41C Ant 2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	21.8	23.50
40185	40383	QPSK	1	99	1	0	21.93	23.50
40620	40818	QPSK	1	99	1	0	22.06	23.50
41055	41253	QPSK	1	99	1	0	21.95	23.50
41490	41292	QPSK	1	0	1	99	21.78	23.50



<2.4GHz WLAN>

Mode	Channel	Frequency (MHz)	Ant 5 Full Power For Extremity		For Head For Body-worn For Hotspot		
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11b 1Mbps	1	2412	18.76	18.00	16.76	18.00	98.01
	6	2437	15.84	17.50	15.84	17.50	
	11	2462	15.21	17.00	15.21	17.00	
	1	2412	13.41	15.00	13.41	15.00	
	2	2417	19.85	21.50	18.70	20.50	
	6	2437	18.19	20.50	18.54	20.50	
802.11g 6Mbps	9	2452	18.19	19.50	18.19	19.50	88.68
	10	2457	15.94	17.50	15.94	17.50	
	11	2462	12.72	14.50	12.72	14.50	
	1	2412	12.56	14.50		14.50	
	2	2417	19.34	21.00		20.50	
	6	2437	19.36	20.50		20.50	
802.11n-HT20 MCS0	10	2457	16.43	19.00	Not Required		82.81
	11	2462	12.88	14.50		14.50	

<5.2GHz WLAN>

Mode	Channel	Frequency (MHz)	Ant 5 Full Power For Extremity		For Head For Body-worn		For Hotspot		
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	36	5180	15.93	17.50	13.17	15.00	14.34	16.00	89.10
	40	5200	18.42	20.00	13.62	15.00	14.57	16.00	
	44	5220	18.46	20.00	13.75	15.00	14.65	16.00	
	48	5240	18.05	20.00	13.44	15.00	14.51	16.00	
	36	5180	16.57	18.00		15.00		16.00	
	40	5200	18.49	20.00		15.00		16.00	
802.11n-HT20 MCS0	44	5220	18.45	20.00		15.00		16.00	86.81
	48	5240	18.22	20.00		15.00		16.00	
	36	5180	16.50	18.00	Not Required		Not Required	16.00	
	40	5200	17.65	19.00		15.00		16.00	
802.11ac-VHT20 MCS0	44	5220	17.49	19.00		15.00		16.00	87.43
	48	5240	17.35	19.00		15.00		16.00	

<5.3GHz WLAN>

Mode	Channel	Frequency (MHz)	Ant 5 Full Power		For Head For Body-worn		For Extremity		
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	52	5260	17.95	19.50	14.01	16.00	17.41	19.00	89.10
	56	5280	17.91	19.50	13.98	16.00	17.32	19.00	
	60	5300	18.21	20.00	14.24	16.00	17.65	19.00	
	64	5320	18.02	20.00	14.16	16.00	17.46	19.00	
802.11n-HT20 MCS0	52	5260	18.12	20.00		16.00		19.00	86.81
	56	5280	18.08	20.00		16.00		19.00	
	60	5300	18.10	20.00		16.00		19.00	
	64	5320	18.18	20.00		16.00		19.00	
802.11ac-VHT20 MCS0	52	5260	17.33	19.00	Not Required		Not Required	19.00	87.43
	56	5280	17.21	18.00		16.00		19.00	
	60	5300	17.39	19.00		16.00		19.00	
	64	5320	17.30	19.00		16.00		19.00	

<5.5GHz WLAN>

Mode	Channel	Frequency (MHz)	Ant 5 Full Power		For Head For Body-worn		For Extremity		
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	100	5500	18.01	19.50	14.11	16.00	17.38	19.00	89.10
	116	5580	18.53	20.00	14.77	16.00	17.58	19.00	
	124	5620	18.47	20.00	14.59	16.00	17.42	19.00	
	132	5660	18.51	20.00	14.61	16.00	17.54	19.00	
	140	5700	16.69	18.50	14.21	16.00	15.12	16.50	
802.11n-HT20 MCS0	100	5500	17.15	19.00		16.00	17.15	19.00	86.81
	116	5580	18.58	20.00		16.00	17.52	19.00	
	124	5620	18.54	20.00		16.00	17.48	19.00	
	132	5660	18.50	20.00		16.00	17.44	19.00	
	140	5700	16.52	18.00		16.00	16.52	18.00	
802.11ac-VHT20 MCS0	100	5500	17.07	18.50	Not Required		Not Required	18.50	87.43
	116	5580	17.67	19.50		16.00		19.00	
	124	5620	17.63	19.50		16.00		19.00	
	132	5660	17.61	19.50		16.00		19.00	
	140	5700	16.43	18.00		16.00		18.00	

<5.8GHz WLAN>

Mode	Channel	Frequency (MHz)	Ant 5 Full Power		For Body-worn		For Head For Hotspot		For Extremity		
			Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a 6Mbps	149	5745	15.76	17.50	14.43	16.00	13.29	15.00	15.76	17.50	89.10
	157	5785	18.25	20.00	14.62	16.00	13.45	15.00	17.39	19.00	
	165	5825	15.31	17.00	14.48	16.00	13.34	15.00	15.31	17.00	
	149	5745	15.96	17.50		16.00		15.00	15.96	17.50	
802.11n-HT20 MCS0	157	5785	18.39	20.00		16.00		15.00	17.35	19.00	86.81
	165	5825	15.44	17.00		16.00		15.00	15.28	17.00	
	149	5745	17.09	19.00		16.00		15.00		19.00	
	157	5785	17.53	19.00		16.00		15.00	Not Required	19.00	
802.11ac-VHT20 MCS0	165	5825	17.34	19.00		16.00		15.00		19.00	87.43



<Bluetooth>

Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	9.31	7.14	7.09	10.50
	CH 39	2441	7.96	6.09	6.01	9.00
	CH 76	2460	7.41	6.05	6.13	9.00

BLE 1M

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			FSK	
LE	CH 00	2402	0.71	
	CH 19	2440	-0.77	
	CH 39	2480	-1.09	
Tune-up Limit			1.5	

BLE 2M

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			2Mbps	
LE	CH 01	2404	0.25	
	CH 19	2440	-0.64	
	CH 39	2478	-1.40	
Tune-up Limit			1.50	