

<GSM>

GSM 850 Ant 0		Burst Average Power (dBm)			Tune-up		Frame Average Power (dBm)			Tune-up	
TX Channel		128	189	251	Limit		128	189	251	Limit	
Frequency (MHz)		824.2	835.4	848.8	(dBm)		824.2	835.4	848.8	(dBm)	
GSM 1 Tx slot		28.77	28.87	28.75	30.00		19.77	19.87	19.75	21.00	
GPRS 1 Tx slot		28.83	28.87	28.82	30.00		19.83	19.87	19.82	21.00	
GPRS 2 Tx slots		29.31	29.41	29.33	29.50		22.31	22.41	22.33	23.50	
GPRS 3 Tx slots		28.80	28.89	28.84	28.00		22.54	22.63	22.58	23.74	
GPRS 4 Tx slots		25.28	25.38	25.37	26.50		22.28	22.38	22.37	23.50	

GSM 1900 Ant 1		Burst Average Power (dBm)			Tune-up		Frame Average Power (dBm)			Tune-up	
TX Channel		512	661	810	Limit		512	661	810	Limit	
Frequency (MHz)		1850.2	1860	1909.8	(dBm)		1850.2	1860	1909.8	(dBm)	
GSM 1 Tx slot		29.21	29.22	29.10	27.50		17.21	17.22	17.10	18.50	
GPRS 1 Tx slot		26.26	26.29	26.31	27.50		17.26	17.29	17.31	18.50	
GPRS 2 Tx slots		25.25	25.34	25.31	26.50		19.25	19.34	19.31	20.50	
GPRS 3 Tx slots		23.22	23.31	23.34	24.50		18.96	19.05	19.08	20.24	
GPRS 4 Tx slots		22.21	22.28	22.26	23.50		19.21	19.28	19.26	20.50	

<WCDMA>

Band		WCDMA V Ant 0			Tune-up	
TX Channel		4132	4182	4233	Limit	
Rx Channel		4357	4407	4458	(dBm)	
Frequency (MHz)		626.4	636.4	646.6	(dBm)	
3GPP Rel 99	AMR 12.2Kbps	23.21	23.30	23.24	24.50	
3GPP Rel 99	RMC 12.2Kbps	23.24	23.34	23.28	24.50	
3GPP Rel 6	HSDPA Subtest-1	22.20	22.42	22.31	23.50	
3GPP Rel 6	HSDPA Subtest-2	22.24	22.38	22.32	23.50	
3GPP Rel 6	HSDPA Subtest-3	21.77	21.76	21.88	23.00	
3GPP Rel 6	HSDPA Subtest-4	21.80	21.76	21.73	23.00	
3GPP Rel 6	HSUPA Subtest-1	22.22	22.34	22.19	23.50	
3GPP Rel 6	HSUPA Subtest-2	20.27	20.26	20.27	21.50	
3GPP Rel 6	HSUPA Subtest-3	21.17	21.44	21.20	22.50	
3GPP Rel 6	HSUPA Subtest-4	20.28	20.27	20.30	21.50	
3GPP Rel 6	HSUPA Subtest-5	22.31	22.33	22.19	23.50	

LTE Band 5 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel							Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20450	20525	20600		
10	QPSK	1	0	23.21	23.28	23.19	24.5	0
10	QPSK	1	25	23.11	23.07	23.18		
10	QPSK	1	49	23.09	23.21	23.09		
10	QPSK	25	0	22.42	22.46	22.44		
10	QPSK	25	12	22.43	22.41	22.34	23.5	1
10	QPSK	25	25	22.34	22.38	22.40		
10	QPSK	50	0	22.49	22.51	22.37		
10	16QAM	1	0	22.56	22.72	22.76		
10	16QAM	1	25	22.55	22.76	22.83	23.5	1
10	16QAM	1	49	22.53	22.75	22.72		
10	16QAM	25	0	21.36	21.40	21.40		
10	16QAM	25	12	21.36	21.29	21.38		
10	16QAM	25	25	21.44	21.49	21.34	22.5	2
10	16QAM	50	0	21.30	21.33	21.48		
10	64QAM	1	0	21.37	21.41	21.51		
10	64QAM	1	25	21.55	21.52	21.50		
10	64QAM	1	49	21.42	21.53	21.44	22.5	2
10	64QAM	25	0	20.43	20.40	20.34		
10	64QAM	25	12	20.34	20.21	20.43		
10	64QAM	25	25	20.32	20.40	20.43		
10	64QAM	50	0	20.34	20.31	20.45	21.5	3
Channel							Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20425	20525	20625		
5	QPSK	1	0	23.00	23.07	23.02	24.5	0
5	QPSK	1	12	23.10	23.05	23.03		
5	QPSK	1	24	22.86	23.19	23.03		
5	QPSK	12	0	22.20	22.42	22.36		
5	QPSK	12	7	22.34	22.36	22.31	23.5	1
5	QPSK	12	13	22.27	22.18	22.35		
5	QPSK	25	0	22.29	22.30	22.38		
5	16QAM	1	0	22.17	22.53	22.71		
5	16QAM	1	12	22.48	22.65	22.51	23.5	1
5	16QAM	1	24	22.38	22.56	22.60		
5	16QAM	12	0	21.18	21.31	21.36		
5	16QAM	12	7	21.30	21.27	21.22		
5	16QAM	12	13	21.24	21.36	21.20	22.5	2
5	16QAM	25	0	21.20	21.24	21.35		
5	64QAM	1	0	21.18	21.30	21.34		
5	64QAM	1	12	21.48	21.49	21.40		
5	64QAM	1	24	21.26	21.47	21.33	22.5	2
5	64QAM	12	0	20.29	20.37	20.34		
5	64QAM	12	7	20.23	20.10	20.22		
5	64QAM	12	13	20.25	20.20	20.39		
5	64QAM	25	0	20.32	20.31	20.44	21.5	3
Channel							Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20415	20525	20635		
3	QPSK	1	0	23.19	23.19	23.03	24.5	0
3	QPSK	1	8	22.93	23.08	22.99		
3	QPSK	1	14	23.11	23.18	23.02		
3	QPSK	8	0	22.27	22.46	22.33		
3	QPSK	8	4	22.24	22.28	22.20	23.5	1
3	QPSK	8	7	22.27	22.17	22.37		
3	QPSK	15	0	22.28	22.30	22.33		
3	16QAM	1	0	22.36	22.61	22.70		
3	16QAM	1	8	22.43	22.75	22.60	23.5	1
3	16QAM	1	14	22.45	22.74	22.64		
3	16QAM	8	0	21.39	21.27	21.26		
3	16QAM	8	4	21.16	21.20	21.33		
3	16QAM	8	7	21.30	21.32	21.22	22.5	2
3	16QAM	15	0	21.11	21.32	21.44		
3	64QAM	1	0	21.17	21.21	21.32		
3	64QAM	1	8	21.52	21.32	21.46		
3	64QAM	1	14	21.29	21.42	21.36	21.5	3
3	64QAM	8	0	20.26	20.28	20.30		
3	64QAM	8	4	20.33	20.02	20.41		
3	64QAM	8	7	20.27	20.25	20.27		
3	64QAM	15	0	20.25	20.31	20.27	Tune-up limit (dBm)	MPR (dB)
Channel							Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				20407	20525	20643		
1.4	QPSK	1	0	23.11	23.12	23.09	24.5	0
1.4	QPSK	1	3	23.02	22.99	22.99		
1.4	QPSK	1	5	22.90	23.18	23.00		
1.4	QPSK	3	0	23.14	23.08	22.99		
1.4	QPSK	3	1	23.02	23.08	22.99	23.5	1
1.4	QPSK	3	3	23.03	23.08	22.92		
1.4	QPSK	6	0	22.46	22.30	22.35		
1.4	16QAM	1	0	22.34	22.63	22.66		
1.4	16QAM	1	3	22.50	22.71	22.45	23.5	1
1.4	16QAM	1	5	22.48	22.70	22.62		
1.4	16QAM	3	0	22.39	22.42	22.35		
1.4	16QAM	3	1	22.29	22.30	22.19		
1.4	16QAM	3	3	22.27	22.31	22.35	22.5	2
1.4	16QAM	6	0	21.28	21.12	21.26		
1.4	64QAM	1	0	21.15	21.43	21.44		
1.4	64QAM	1	3	21.56	21.44	21.34		
1.4	64QAM	1	5	21.31	21.43	21.27	22.5	2
1.4	64QAM	3	0	21.21	21.20	21.38		
1.4	64QAM	3	1	21.35	21.08	21.39		
1.4	64QAM	3	3	21.36	21.36	21.27		
1.4	64QAM	6	0	20.33	20.26	20.41	21.5	3

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)	MPR (dB)
Channel							Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	23.10	23.17	23.15	24	0
10	QPSK	1	25	23.00	23.13	23.06		
10	QPSK	1	49	23.11	23.13	23.14		
10	QPSK	25	0	21.98	22.16	22.00		
10	QPSK	25	12	22.12	22.02	22.05	23	1
10	QPSK	25	25	21.96	21.98	22.02		
10	QPSK	50	0	22.35	22.38	22.36		
10	16QAM	1	0	22.48	22.56	22.55		
10	16QAM	1	25	22.56	22.36	22.41	23	1
10	16QAM	1	49	22.38	22.51	22.38		
10	16QAM	25	0	21.11	21.17	21.15		
10	16QAM	25	12	21.16	21.11	21.23		
10	16QAM	25	25	21.26	21.13	21.27	22	2
10	16QAM	50	0	21.16	21.31	21.30		
10	64QAM	1	0	21.23	21.11	21.14		
10	64QAM	1	25	21.23	21.09	21.29		
10	64QAM	1	49	21.28	21.20	21.20	22	2
10	64QAM	25	0	20.09	20.11	20.25		
10	64QAM	25	12	20.17	20.19	20.16		
10	64QAM	25	25	20.19	20.12	20.03		
10	64QAM	50	0	20.09	20.03	20.23	21	3
Channel							Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.94	23.00	23.07	24	0
5	QPSK	1	12	22.85	23.10	22.96		
5	QPSK	1	24	23.03	22.93	22.99		
5	QPSK	12	0	21.98	22.03	21.79		
5	QPSK	12	7	21.99	21.84	21.66	23	1
5	QPSK	12	13	21.82	21.79	21.90		
5	QPSK	25	0	22.20	22.19	22.29		
5	16QAM	1	0	22.31	22.46	22.49		
5	16QAM	1	12	22.35	22.23	22.25	23	1
5	16QAM	1	24	22.18	22.47	22.17		
5	16QAM	12	0	21.09	21.00	21.01		
5	16QAM	12	7	21.09	21.08	21.08		
5	16QAM	12	13	21.16	21.14	21.14	22	2
5	16QAM	25	0	21.12	21.16	21.22		
5	64QAM	1	0	21.11	21.03	21.00		
5	64QAM	1	12	21.02	20.97	21.16		
5	64QAM	1	24	21.28	21.17	21.19	22	2
5	64QAM	12	0	19.97	19.94	20.19		
5	64QAM	12	7	20.04	20.20	19.99		
5	64QAM	12	13	20.16	20.05	19.97		
5	64QAM	25	0	20.00	20.04	20.06	21	3
Channel							Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.98	23.04	22.97	24	0
3	QPSK	1	8	22.88	23.06	22.98		
3	QPSK	1	14	23.03	23.09	22.86		
3	QPSK	8	0	21.86	21.83	21.83		
3	QPSK	8	4	22.04	21.91	21.91	23	1
3	QPSK	8	7	21.88	21.99	21.81		
3	QPSK	15	0	22.24	22.35	22.30		
3	16QAM	1	0	22.31	22.38	22.56		
3	16QAM	1	8	22.53	22.26	22.38	23	1
3	16QAM	1	14	22.29	22.42	22.16		
3	16QAM	8	0	21.04	21.12	20.97		
3	16QAM	8	4	21.02	20.92	21.24		
3	16QAM	8	7	21.25	20.95	21.18	22	2
3	16QAM	15	0	21.00	21.17	21.28		
3	64QAM	1	0	21.02	20.93	20.92		
3	64QAM	1	8	21.17	21.05	21.29		
3	64QAM	1	14	21.21	21.11	21.11	21	3
3	64QAM	8	0	19.96	20.05	20.10		
3	64QAM	8	4	19.98	20.10	20.15		
3	64QAM	8	7	20.08	20.02	19.82		
3	64QAM	15	0	20.05	19.87	20.10	Tune-up limit (dBm)	MPR (dB)
Channel							Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				23017	23095	23173		
1.4	QPSK	1	0	23.02	23.14	23.10	24	0
1.4	QPSK	1	3	23.02	23.04	22.86		
1.4	QPSK	1	5	23.01	22.93	22.93		
1.4	QPSK	3	0	23.12	23.14	22.99		
1.4	QPSK	3	1	22.92	23.03	22.98	23	1
1.4	QPSK	3	3	23.00	23.01	23.03		
1.4	QPSK	6	0	22.15	22.28	22.24		
1.4	16QAM	1	0	22.41	22.35	22.44		
1.4	16QAM	1	3	22.46	22.28	22.37	23	1
1.4	16QAM	1	5	22.42	22.46	22.38		
1.4	16QAM	3	0	22.46	22.39	22.51		
1.4	16QAM	3	1	22.50	22.16	22.23		
1.4	16QAM	3	3	22.21	22.29	22.21	22	2
1.4	16QAM	6	0	21.01	21.17	21.26		
1.4	64QAM	1	3	21.10	20.90	21.24		
1.4	64QAM	1	5	21.08	21.15	21.11		
1.4	64QAM	3	0	21.09	20.93	21.13	22	2
1.4	64QAM	3	1	21.18	21.11	21.08		
1.4	64QAM	3	3	20.99	21.32	21.31		
1.4	64QAM	6	0	20.10	20.17	20.17		
1.4	64QAM	6	0	20.10	20.17	20.17	21	3

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dbm)	MPR (dB)		
Channel												
Frequency (MHz)				39750	40185	40620	41055	41490				
				2595	2549.5	2593	2638.5	2690				
20	QPSK	1	0	18.19	18.13	18.30	18.09	18.08	19	0		
20	QPSK	1	49	17.98	17.92	18.09	17.99	17.87				
20	QPSK	1	99	18.07	17.93	18.26	18.09	17.94				
20	QPSK	50	0	18.18	18.11	18.28	18.06	18.04				
20	QPSK	50	24	18.06	18.14	18.11	17.88	17.93	19	0		
20	QPSK	50	50	18.18	17.97	18.22	17.97	17.92				
20	QPSK	100	0	18.10	18.09	18.26	17.93	17.95				
20	16QAM	1	0	17.98	17.97	18.27	18.10	17.90				
20	16QAM	1	49	18.03	17.96	18.19	18.09	17.91	19	0		
20	16QAM	1	99	18.08	18.13	18.13	17.99	17.88				
20	16QAM	50	0	18.03	17.93	18.21	17.88	18.01				
20	16QAM	50	24	18.11	18.07	18.22	17.88	17.92		19	0	
20	16QAM	50	50	18.15	18.06	18.10	17.98	17.93				
20	16QAM	100	0	18.21	18.03	18.18	18.06	18.09				
20	84QAM	1	0	18.20	17.95	18.15	17.95	18.04				
20	84QAM	1	49	18.18	17.91	18.24	18.07	17.96	19	0		
20	84QAM	1	99	18.20	18.04	18.25	17.93	18.09				
20	84QAM	50	0	18.03	18.00	18.28	17.97	18.03				
20	84QAM	50	24	17.99	18.08	18.08	18.10	17.86				
20	84QAM	50	50	18.20	18.05	18.25	17.91	18.06	19	0		
20	84QAM	100	0	18.14	17.97	18.14	18.06	17.96				
Channel												
Frequency (MHz)				40173	40593	40620	41098	41540			Tune-up limit (dbm)	MPR (dB)
				2593.5	2548.3	2593	2643.5	2695				
15	QPSK	1	0	18.12	17.98	18.24	17.99	18.02	19.00	0		
15	QPSK	1	37	17.82	17.77	17.82	17.88	17.77				
15	QPSK	1	74	17.96	17.88	18.08	18.07	17.85				
15	QPSK	36	0	18.08	18.09	18.09	17.87	17.94				
15	QPSK	36	20	18.05	18.13	17.95	17.90	17.86	19	0		
15	QPSK	36	39	18.04	17.89	18.15	17.83	17.74				
15	QPSK	75	0	18.11	18.11	18.22	17.74	17.80				
15	16QAM	1	0	17.79	17.87	18.17	18.07	17.73				
15	16QAM	1	37	18.02	17.80	18.18	18.09	17.78	19	0		
15	16QAM	1	74	17.91	17.94	18.10	17.91	17.69				
15	16QAM	36	0	17.93	17.95	18.01	17.79	17.80				
15	16QAM	36	20	18.05	17.86	18.05	17.89	17.85		19	0	
15	16QAM	36	39	18.10	17.87	17.94	17.92	17.86				
15	16QAM	75	0	18.18	17.94	18.20	17.90	17.89				
15	84QAM	1	0	18.11	17.77	18.00	17.92	17.90				
15	84QAM	1	37	18.06	17.83	18.09	17.93	17.90	19	0		
15	84QAM	1	74	18.09	18.00	18.09	17.77	17.89				
15	84QAM	36	0	17.85	17.86	18.17	17.96	17.95				
15	84QAM	36	20	17.83	17.87	17.91	18.08	17.72		19	0	
15	84QAM	36	39	18.08	17.86	18.20	17.91	17.84				
15	84QAM	75	0	17.98	17.83	18.09	18.06	17.98				
Channel												
Frequency (MHz)				39700	40160	40620	41080	41540				Tune-up limit (dbm)
				2591	2547	2593	2639	2685				
10	QPSK	1	0	18.13	18.06	18.27	18.01	18.05	19.00	0		
10	QPSK	1	25	17.94	17.87	17.94	17.90	17.80				
10	QPSK	1	49	17.89	17.83	18.09	17.94	17.94				
10	QPSK	25	0	18.16	18.06	18.15	17.92	17.82				
10	QPSK	25	12	17.86	17.96	18.07	17.77	17.93	19	0		
10	QPSK	25	25	18.19	17.96	18.09	17.92	17.77				
10	QPSK	50	0	18.11	18.07	18.08	17.92	17.94				
10	16QAM	1	0	17.92	17.93	18.28	18.10	17.80				
10	16QAM	1	25	17.96	17.96	18.03	18.00	17.93	19	0		
10	16QAM	1	49	17.86	18.01	18.06	17.79	17.79				
10	16QAM	25	0	17.99	17.83	18.01	17.77	17.82				
10	16QAM	25	12	18.12	18.02	18.04	17.78	17.72		19	0	
10	16QAM	25	25	18.10	17.90	17.99	17.94	17.92				
10	16QAM	50	0	18.12	17.92	18.01	17.99	18.00				
10	84QAM	1	0	18.21	17.93	18.04	17.76	17.86		19	0	
10	84QAM	1	25	18.08	17.82	18.22	17.89	17.89				
10	84QAM	1	49	18.07	17.84	18.09	17.88	18.08				
10	84QAM	25	0	17.88	17.88	18.25	17.93	17.93				
10	84QAM	25	12	17.83	17.86	17.99	18.05	17.82	19	0		
10	84QAM	25	25	18.13	17.99	18.15	18.01	18.00				
10	84QAM	50	0	18.14	17.84	17.92	17.97	17.97				
Channel												
Frequency (MHz)				39715	40143	40620	41093	41555			Tune-up limit (dbm)	MPR (dB)
				2498.5	2545.8	2593	2640.30	2687.5				
5	QPSK	1	0	18.19	18.01	18.13	18.03	17.99	19.00	0		
5	QPSK	1	12	17.86	17.90	17.95	17.89	17.74				
5	QPSK	1	24	17.98	17.80	18.22	18.05	17.95				
5	QPSK	12	0	18.09	18.07	18.08	18.07	17.90				
5	QPSK	12	7	17.94	17.98	18.01	17.74	17.79	19	0		
5	QPSK	12	13	17.97	17.83	18.12	17.97	17.88				
5	QPSK	25	0	17.88	17.97	18.04	17.73	17.90				
5	16QAM	1	0	17.83	17.76	18.11	17.95	17.88				
5	16QAM	1	12	17.88	17.83	17.99	17.92	17.93	19	0		
5	16QAM	1	24	17.90	18.12	17.92	17.94	17.86				
5	16QAM	12	0	17.94	17.93	18.14	17.90	18.01				
5	16QAM	12	7	18.06	18.05	18.16	17.88	17.82		19	0	
5	16QAM	12	13	18.08	18.02	18.04	17.94	17.83				
5	16QAM	25	0	18.07	18.02	18.12	18.01	17.90				
5	84QAM	1	0	18.21	17.90	18.03	17.97	17.95				
5	84QAM	1	12	17.86	17.85	18.09	17.86	17.89	19	0		
5	84QAM	1	24	18.01	17.90	18.04	17.78	18.04				
5	84QAM	12	0	17.95	17.97	18.21	17.81	18.04				
5	84QAM	12	7	18.00	18.00	18.10	17.88	17.83				
5	84QAM	12	13	18.00	18.00	18.07	17.75	18.00	19	0		
5	84QAM	25	0	17.99	17.92	18.13	17.96	17.88				

LTE Band 42 Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				42190	42590	42990	17	0
Frequency (MHz)				3460	3500	3540		
20	QPSK	1	0	15.75	15.92	15.85	17	0
20	QPSK	1	49	15.55	15.67	15.62		
20	QPSK	1	99	15.52	15.62	15.72		
20	QPSK	50	0	15.69	15.88	15.71		
20	QPSK	50	24	15.77	15.68	15.45	17	0
20	QPSK	50	50	15.53	15.81	15.55		
20	QPSK	100	0	15.65	15.86	15.51		
20	16QAM	1	0	15.56	15.90	15.73		
20	16QAM	1	49	15.60	15.81	15.72	17	0
20	16QAM	1	99	15.75	15.73	15.56		
20	16QAM	50	0	15.58	15.86	15.51		
20	16QAM	50	24	15.71	15.85	15.48		
20	16QAM	50	50	15.69	15.70	15.58	17	0
20	16QAM	100	0	15.63	15.83	15.62		
20	84QAM	1	0	15.52	15.74	15.51		
20	84QAM	1	49	15.53	15.79	15.69		
20	84QAM	1	99	15.63	15.88	15.56	17	0
20	84QAM	50	0	15.55	15.84	15.57		
20	84QAM	50	24	15.64	15.71	15.66		
20	84QAM	50	50	15.67	15.88	15.54		
20	84QAM	100	0	15.54	15.72	15.63		
Channel				42105	42590	43015		
Frequency (MHz)				3467.5	3500	3542.5		
15	QPSK	1	0	15.72	15.88	15.56	17	0
15	QPSK	1	37	15.45	15.60	15.57		
15	QPSK	1	74	15.43	15.71	15.68		
15	QPSK	36	0	15.58	15.82	15.68		
15	QPSK	36	20	15.67	15.60	15.41	17	0
15	QPSK	36	39	15.49	15.78	15.46		
15	QPSK	75	0	15.61	15.82	15.49		
15	16QAM	1	0	15.51	15.84	15.69		
15	16QAM	1	37	15.50	15.74	15.66	17	0
15	16QAM	1	74	15.72	15.64	15.55		
15	16QAM	36	0	15.55	15.78	15.41		
15	16QAM	36	20	15.66	15.76	15.43		
15	16QAM	36	39	15.65	15.68	15.46	17	0
15	16QAM	75	0	15.53	15.80	15.62		
15	64QAM	1	0	15.46	15.69	15.49		
15	64QAM	1	37	15.47	15.73	15.62		
15	64QAM	1	74	15.60	15.82	15.49		
15	64QAM	36	0	15.49	15.81	15.53		
15	64QAM	36	20	15.57	15.66	15.62	17	0
15	64QAM	36	39	15.60	15.66	15.53		
15	64QAM	75	0	15.46	15.70	15.70		
Channel				42140	42990	43040		
Frequency (MHz)				3463	3500	3545		
10	QPSK	1	0	15.69	15.86	15.64	17	0
10	QPSK	1	25	15.51	15.64	15.50		
10	QPSK	1	49	15.45	15.71	15.67		
10	QPSK	25	0	15.85	15.81	15.63		
10	QPSK	25	12	15.69	15.60	15.39		
10	QPSK	25	25	15.45	15.79	15.48		
10	QPSK	50	0	15.61	15.83	15.44		
10	16QAM	1	0	15.48	15.85	15.63		
10	16QAM	1	25	15.56	15.79	15.71		
10	16QAM	1	49	15.72	15.70	15.53		
10	16QAM	25	0	15.47	15.76	15.43		
10	16QAM	25	12	15.66	15.80	15.37		
10	16QAM	25	25	15.62	15.59	15.46		
10	16QAM	50	0	15.62	15.79	15.51		
10	64QAM	1	0	15.50	15.67	15.45	17	0
10	64QAM	1	25	15.44	15.78	15.59		
10	64QAM	1	49	15.56	15.77	15.49		
10	64QAM	25	0	15.47	15.73	15.49		
10	64QAM	25	12	15.55	15.62	15.61	17	0
10	64QAM	25	25	15.66	15.82	15.50		
10	64QAM	50	0	15.46	15.65	15.60		
Channel				42115	42990	43035		
Frequency (MHz)				3452.5	3500	3547.5		
5	QPSK	1	0	15.67	15.82	15.54	17	0
5	QPSK	1	12	15.48	15.58	15.38		
5	QPSK	1	24	15.49	15.77	15.67		
5	QPSK	12	0	15.80	15.85	15.68		
5	QPSK	12	7	15.67	15.62	15.42		
5	QPSK	12	13	15.48	15.77	15.54		
5	QPSK	25	0	15.63	15.82	15.44		
5	16QAM	1	0	15.54	15.85	15.65		
5	16QAM	1	12	15.51	15.70	15.64		
5	16QAM	1	24	15.74	15.65	15.46		
5	16QAM	12	0	15.54	15.77	15.46		
5	16QAM	12	7	15.68	15.63	15.38		
5	16QAM	12	13	15.62	15.63	15.51		
5	16QAM	25	0	15.57	15.77	15.58	17	0
5	64QAM	1	0	15.47	15.63	15.47		
5	64QAM	1	12	15.49	15.69	15.59		
5	64QAM	1	24	15.60	15.78	15.51		
5	64QAM	12	0	15.49	15.73	15.54	17	0
5	64QAM	12	7	15.61	15.66	15.55		
5	64QAM	12	13	15.58	15.67	15.46		
5	64QAM	25	0	15.50	15.63	15.54		



Part27O n77 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	16.03	16.02	16.08		
100	PI2 BPSK	1	137	16.03	16.03	16.00	17.0	0.0
100	PI2 BPSK	1	271	15.99	16.03	16.08		
100	PI2 BPSK	135	0	16.02	16.13	16.06	17.0	0.0
100	PI2 BPSK	135	69	16.04	16.10	15.89	17.0	0.0
100	PI2 BPSK	135	138	15.93	16.02	15.92	17.0	0.0
100	PI2 BPSK	270	0	15.80	15.97	16.06		
100	QPSK	1	1	15.98	16.18	16.05		
100	QPSK	1	137	15.82	16.16	15.96	17.0	0.0
100	QPSK	1	271	15.97	16.05	15.95		
100	QPSK	135	0	16.00	16.01	15.89	17.0	0.0
100	QPSK	135	69	15.97	16.05	16.02	17.0	0.0
100	QPSK	135	138	15.96	16.03	16.03	17.0	0.0
100	QPSK	270	0	15.80	16.00	15.93		
100	16QAM	1	1	15.82	16.10	15.95	17.0	0.0
100	64QAM	1	1	15.98	16.07	15.89	17.0	0.0
100	256QAM	1	1	15.84	15.95	16.00	17.0	0.0
Channel				647334	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3750	3840	3930		
40	QPSK	1	1	15.77	15.86	15.82	17.0	0.0
Channel				647334	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3930.02		
20	QPSK	1	1	15.75	15.84	15.80	17.0	0.0

Part27Q n77 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332	633332		
Frequency (MHz)				3499.98				
100	PI2 BPSK	1	1	15.82				
100	PI2 BPSK	1	137	16.02			17.0	0.0
100	PI2 BPSK	1	271	15.89				
100	PI2 BPSK	135	0	15.94			17.0	0.0
100	PI2 BPSK	135	69	16.01			17.0	0.0
100	PI2 BPSK	135	138	16.07			17.0	0.0
100	PI2 BPSK	270	0	16.10				
100	QPSK	1	1	16.15				
100	QPSK	1	137	16.03			17.0	0.0
100	QPSK	1	271	16.08				
100	QPSK	135	0	16.08			17.0	0.0
100	QPSK	135	69	16.10			17.0	0.0
100	QPSK	135	138	16.05			17.0	0.0
100	QPSK	270	0	15.94				
100	16QAM	1	1	16.09			17.0	0.0
100	64QAM	1	1	15.97			17.0	0.0
100	256QAM	1	1	16.00			17.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	QPSK	1	1	16.04	15.94	16.10	17.0	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	QPSK	1	1	16.05	15.92	15.97	17.0	0.0

Part27O n78 Ant0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI2 BPSK	1	1	16.05				
100	PI2 BPSK	1	137	15.94			17.0	0.0
100	PI2 BPSK	1	271	16.03				
100	PI2 BPSK	135	0	16.13			17.0	0.0
100	PI2 BPSK	135	69	15.98			17.0	0.0
100	PI2 BPSK	135	138	15.97			17.0	0.0
100	PI2 BPSK	270	0	16.12				
100	QPSK	1	1	16.16				
100	QPSK	1	137	16.06			17.0	0.0
100	QPSK	1	271	16.15				
100	QPSK	135	0	16.14			17.0	0.0
100	QPSK	135	69	16.07			17.0	0.0
100	QPSK	135	138	15.98			17.0	0.0
100	QPSK	270	0	16.01				
100	16QAM	1	1	16.02			17.0	0.0
100	64QAM	1	1	16.00			17.0	0.0
100	256QAM	1	1	15.95			17.0	0.0
Channel				646334	650000	650000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	15.76	15.83	15.81	17.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	15.91	15.91	15.78	17.0	0.0
Channel				647334	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	15.77	15.74	15.83	17.0	0.0

Part27Q n78 Ant0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					3000.01			
Frequency (MHz)								
100	PQ2 BPSK	1	1	15.99			17.0	0.0
100	PQ2 BPSK	1	137	15.90				
100	PQ2 BPSK	1	271	16.08				
100	PQ2 BPSK	135	0	15.94			17.0	0.0
100	PQ2 BPSK	135	69	16.08			17.0	0.0
100	PQ2 BPSK	135	138	15.93			17.0	0.0
100	PQ2 BPSK	270	0	15.99				
100	QPSK	1	1	16.11			17.0	0.0
100	QPSK	1	137	15.99				
100	QPSK	1	271	15.95				
100	QPSK	135	0	15.94			17.0	0.0
100	QPSK	135	69	16.08			17.0	0.0
100	QPSK	135	138	15.94			17.0	0.0
100	QPSK	270	0	16.05				
100	16QAM	1	1	16.08			17.0	0.0
100	64QAM	1	1	15.98			17.0	0.0
100	256QAM	1	1	15.93			17.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	15.96	15.91	16.04	17.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3480.01	3490.01	(dBm)	(dB)
40	QPSK	1	1	16.03	16.01	16.01	17.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	15.90	15.88	16.06	17.0	0.0



2CA DL

CA List	PCC									SCC					Power	
	LTE	BW	BW	UL	UL	UL#	UL	DL Antenna	Configuration	LTE	BW	DL	DL	DL Antenna	With CA	Without CA
	Band	Ant	(MHz)	Freq	Channel	Mod.	RB	RB		Band	(MHz)	Freq	Channel	Configuration	Tx. Power	Tx. Power
				(MHz)			Offset					(MHz)				(dBm)
CA_41A-42A	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590	4x4MIMO	18.15	18.30
	Band 42	Ant 0	20M	3500	42590	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	14.79	14.92



3CA DL

3CA List	PCC										SCC1				SCC2				Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq.	Channel		RB	RB		Band	(MHz)	Freq.	Channel		Band	(MHz)	Freq.	Channel		Tx Power	Tx Power
				(MHz)			Offset	Offset				(MHz)						(dBm)		(dBm)	
CA_41A-42C	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 42	20M	3500	42590	4xMIMO	Band 42	20M	3519.8	42788	4xMIMO	18.22	18.30
	Band 42	Ant 0	20M	3500	42590	QPSK	1	0	4xMIMO	Band 42	20M	3519.8	42788	4xMIMO	Band 41	20M	2593	40620	4xMIMO	14.88	14.92
CA_41C-42A	Band 41	Ant 0	20M	2593	40620	QPSK	1	0	4xMIMO	Band 41	20M	2612.8	40816	4xMIMO	Band 42	20M	3500	42590	4xMIMO	18.25	18.30
	Band 42	Ant 0	20M	3500	42590	QPSK	1	0	4xMIMO	Band 41	20M	2593	40620	4xMIMO	Band 41	20M	2612.8	40816	4xMIMO	14.89	14.92

<2.4GHz WLAN>

		Ant 6		Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	11.49	13.00	100.00
		6	2437	11.36	13.00	
		11	2462	11.43	13.00	
	802.11g 6Mbps	1	2412	11.40	13.00	97.46
		6	2437	11.48	13.00	
		11	2462	11.43	13.00	
	802.11n-HT20 MCS0	1	2412	11.33	13.00	97.28
		6	2437	11.29	13.00	
		11	2462	11.24	13.00	
	802.11n-HT40 MCS0	3	2422	11.41	13.00	94.70
		6	2437	11.45	13.00	
		9	2452	11.57	13.00	

<5.2GHz WLAN>

		Ant 8		Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	10.65	12.50	97.46
		40	5200	10.68	12.50	
		44	5220	10.69	12.50	
	802.11n-HT20 MCS0	48	5240	10.73	12.50	97.30
		36	5180	10.44	12.00	
		40	5200	10.50	12.00	
	802.11n-HT40 MCS0	44	5220	10.54	12.50	95.13
		48	5240	10.51	12.50	
		38	5190	10.64	12.50	
	802.11ac-VHT20 MCS0	46	5230	10.71	12.50	97.31
		36	5180	10.51	12.50	
		40	5200	10.55	12.50	
	802.11ac-VHT40 MCS0	44	5220	10.60	12.50	95.15
		48	5240	10.56	12.50	
		38	5190	10.69	12.50	
	802.11ac-VHT80 MCS0	46	5230	10.74	12.50	86.54
		42	5210	10.28	12.00	

<5.3GHz WLAN>

		Ant 8		Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	10.69	12.50	97.46
		56	5280	10.74	12.50	
		60	5300	10.74	12.50	
	802.11n-HT20 MCS0	64	5320	10.66	12.50	97.30
		52	5260	10.57	12.50	
		56	5280	10.63	12.50	
	802.11n-HT40 MCS0	60	5300	10.56	12.50	95.13
		64	5320	10.46	12.00	
		54	5270	10.73	12.50	
	802.11ac-VHT20 MCS0	62	5310	10.71	12.50	97.31
		52	5260	10.64	12.50	
		56	5280	10.63	12.50	
	802.11ac-VHT40 MCS0	60	5300	10.60	12.50	95.15
		64	5320	10.50	12.00	
		54	5270	10.75	12.50	
	802.11ac-VHT80 MCS0	62	5310	10.74	12.50	86.54
		58	5290	10.31	12.00	

<5.8GHz WLAN>

		Ant 8		Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	100	5550	10.59	12.50	97.46
		116	5580	10.47	12.00	
		124	5620	10.54	12.50	
		132	5660	10.66	12.50	
		140	5700	10.78	12.50	
		144	5720	10.75	12.50	
	802.11n-HT20 MCS0	100	5550	10.49	12.00	97.30
		116	5580	10.45	12.00	
		124	5620	10.47	12.00	
		132	5660	10.55	12.50	
		140	5700	10.60	12.50	
		144	5720	10.54	12.50	
	802.11n-HT40 MCS0	102	5510	10.63	12.50	95.13
		110	5550	10.64	12.50	
		126	5630	10.76	12.50	
		134	5670	10.84	12.50	
		142	5710	10.79	12.50	
		100	5550	10.55	12.50	
	802.11ac-VHT20 MCS0	116	5580	10.48	12.00	97.31
		124	5620	10.54	12.50	
		132	5660	10.51	12.50	
		140	5700	10.69	12.50	
		144	5720	10.59	12.50	
		102	5510	10.65	12.50	
	802.11ac-VHT40 MCS0	110	5550	10.68	12.50	95.15
		126	5630	10.60	12.50	
		134	5670	10.86	12.50	
		142	5710	10.80	12.50	
		106	5530	10.26	12.00	
		122	5610	10.27	12.00	
	802.11ac-VHT80 MCS0	138	5690	10.35	12.00	86.54
		106	5530	10.26	12.00	

<8.8GHz WLAN>

		Ant 8		Full Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
8.8GHz WLAN	802.11a 6Mbps	149	5745	10.67	12.50	97.46
		157	5785	10.66	12.50	
		165	5825	10.63	12.50	
	802.11n-HT20 MCS0	149	5745	10.58	12.50	97.30
		157	5785	10.47	12.00	
		165	5825	10.51	12.50	
	802.11n-HT40 MCS0	151	5765	10.74	12.50	95.13
		159	5795	10.64	12.50	
		149	5745	10.63	12.50	
	802.11ac-VHT20 MCS0	157	5785	10.56	12.50	97.31
		165	5825	10.54	12.50	
		151	5765	10.78	12.50	
	802.11ac-VHT40 MCS0	159	5795	10.66	12.50	95.15
		155	5775	10.22	12.00	

<Bluetooth>			Art 6		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			2Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	12.59	10.48	10.19
	CH 36	2442	12.28	10.14	9.88
	CH 78	2480	12.90	10.52	10.36
Tune-up Limit			14.00	12.00	11.50

BLE 1M			Art 6		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			GFSK		
LE	CH 00	2402	5.10		
	CH 29	2440	5.22		
	CH 39	2480	5.39		
Tune-up Limit			6.50		

BLE 2M			Art 6		
Mode	Channel	Frequency (MHz)	Average power (dBm)		
			2Mbps		
LE	CH 02	2404	4.95		
	CH 29	2440	5.18		
	CH 38	2478	5.40		
Tune-up Limit			6.50		