



Default Power for WWAN

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.63	32.31	32.50	33.50	23.63	23.31	23.50	24.50
GPRS 1 Tx slot	32.61	32.29	32.48	33.50	23.61	23.29	23.48	24.50
GPRS 2 Tx slots	30.04	29.55	30.00	31.00	24.04	23.55	24.00	25.00
GPRS 3 Tx slots	28.21	28.15	28.18	29.00	23.95	23.89	23.92	24.74
GPRS 4 Tx slots	26.84	26.62	26.82	27.50	23.84	23.62	23.82	24.50
EDGE 1 Tx slot	26.38	26.23	26.38	27.00	17.38	17.23	17.38	18.00
EDGE 2 Tx slots	25.48	25.23	25.52	26.50	19.48	19.23	19.52	20.50
EDGE 3 Tx slots	23.25	23.18	23.31	24.00	18.99	18.92	19.05	19.74
EDGE 4 Tx slots	21.24	21.25	21.31	22.00	18.24	18.25	18.31	19.00

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	30.27	30.15	30.55	31.00	21.27	21.15	21.55	22.00
GPRS 1 Tx slot	30.26	30.12	30.53	31.00	21.26	21.12	21.53	22.00
GPRS 2 Tx slots	28.31	28.45	28.63	29.00	22.31	22.45	22.63	23.00
GPRS 3 Tx slots	26.49	26.41	26.48	27.50	22.23	22.15	22.22	23.24
GPRS 4 Tx slots	24.44	24.40	24.19	25.50	21.44	21.40	21.19	22.50
EDGE 1 Tx slot	26.23	26.07	26.17	27.00	17.23	17.07	17.17	18.00
EDGE 2 Tx slots	24.11	24.02	23.97	25.00	18.11	18.02	17.97	19.00
EDGE 3 Tx slots	23.21	22.98	22.99	24.00	18.95	18.72	18.73	19.74
EDGE 4 Tx slots	21.03	21.03	21.10	22.00	18.03	18.03	18.10	19.00

Band	TX Channel	Rx Channel	WCDMA II_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 0			Tune-up Limit (dBm)	
			9262	9400	9538		1312	1413	1513		4132	4182	4233		
Frequency (MHz)	1852.4	1880	1907.6			1712.4	1732.6	1752.6			826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps			23.52	23.58	23.56	24.00	23.38	23.59	23.58	24.00	23.04	23.05	23.03	24.00
3GPP Rel 99	RMC 12.2Kbps			23.53	23.59	23.58	24.00	23.41	23.61	23.60	24.00	23.05	23.06	23.04	24.00
3GPP Rel 6	HSDPA Subtest-1			22.58	22.59	22.59	23.00	22.37	22.62	22.57	23.00	22.07	22.05	22.07	23.00
3GPP Rel 6	HSDPA Subtest-2			22.55	22.59	22.52	23.00	22.41	22.57	22.60	23.00	22.09	22.05	22.10	23.00
3GPP Rel 6	HSDPA Subtest-3			22.07	22.07	22.10	22.50	21.87	22.09	22.06	22.50	21.60	21.59	21.61	22.50
3GPP Rel 6	HSDPA Subtest-4			22.05	22.04	22.08	22.50	21.90	21.70	22.10	22.50	21.61	21.57	21.60	22.50
3GPP Rel 8	DC-HSDPA Subtest-1			22.41	22.53	22.54	23.00	22.32	22.57	22.49	23.00	22.05	21.87	21.93	23.00
3GPP Rel 8	DC-HSDPA Subtest-2			22.43	22.42	22.48	23.00	22.40	22.46	22.59	23.00	21.99	21.91	21.92	23.00
3GPP Rel 8	DC-HSDPA Subtest-3			22.05	22.00	22.05	22.50	21.76	21.93	21.97	22.50	21.49	21.56	21.59	22.50
3GPP Rel 8	DC-HSDPA Subtest-4			21.93	21.99	21.99	22.50	21.89	21.61	21.99	22.50	21.44	21.44	21.55	22.50
3GPP Rel 6	HSUPA Subtest-1			22.57	22.63	22.62	23.00	22.41	22.62	22.60	23.00	22.10	22.04	22.09	23.00
3GPP Rel 6	HSUPA Subtest-2			20.57	20.61	20.61	21.00	20.42	20.61	20.64	21.00	20.07	20.02	20.09	21.00
3GPP Rel 6	HSUPA Subtest-3			21.54	21.63	21.59	22.00	21.40	21.57	21.64	22.00	21.11	21.06	21.09	22.00
3GPP Rel 6	HSUPA Subtest-4			20.58	20.62	20.64	21.00	20.34	20.59	20.58	21.00	20.07	20.08	20.08	21.00
3GPP Rel 6	HSUPA Subtest-5			22.60	22.62	22.60	23.00	22.40	22.60	22.60	23.00	22.10	22.10	22.00	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1			20.77	20.53	20.77	21.00	20.65	20.60	20.74	21.00	20.43	20.26	20.25	21.00













Part270_n78_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	19.91	3750					
100	PI2 BPSK	1	137	19.93			21.0	0.0		
100	PI2 BPSK	1	271	19.79						
100	PI2 BPSK	135	0	18.82			20.5	0.5		
100	PI2 BPSK	135	69	19.83			21.0	0.0		
100	PI2 BPSK	135	138	18.81			20.5	0.5		
100	PI2 BPSK	270	0	18.88						
100	QPSK	1	1	19.98						
100	QPSK	1	137	19.91			21.0	0.0		
100	QPSK	1	271	19.84						
100	QPSK	135	0	19.06						
100	QPSK	135	69	19.95			21.0	0.0		
100	QPSK	135	138	19.11						
100	QPSK	270	0	18.73			20.0	1.0		
100	16QAM	1	1	19.42			20.0	1.0		
100	64QAM	1	1	17.63			18.5	2.5		
100	256QAM	1	1	15.53			16.5	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	64988	65000	65032	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
70	QPSK	1	1	19.92	19.91	19.74	21.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.77	19.72	19.70	21.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	648334	650000	651666	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3720.01	3750	3774.99	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.97	19.76	19.79	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	647334	650000	652666	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.75	19.58	19.76	21.0	0.0		

Part270_n77_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	19.41	19.43	19.31				
100	PI2 BPSK	1	137	19.46	19.52	19.27	21.0	0.0		
100	PI2 BPSK	1	271	19.27	19.34	19.08				
100	PI2 BPSK	135	0	18.60	18.63	18.54	20.5	0.5		
100	PI2 BPSK	135	69	19.37	19.42	19.36	21.0	0.0		
100	PI2 BPSK	135	138	18.51	18.59	18.52	20.5	0.5		
100	PI2 BPSK	270	0	18.58	18.56	18.64				
100	QPSK	1	1	19.24	19.28	19.45				
100	QPSK	1	137	19.16	19.03	19.01	21.0	0.0		
100	QPSK	1	271	19.18	19.05	19.00				
100	QPSK	135	0	18.21	18.27	18.20				
100	QPSK	135	69	19.10	19.53	19.35	21.0	0.0		
100	QPSK	135	138	18.35	18.29	18.11				
100	QPSK	270	0	18.27	18.46	18.20	20.0	1.0		
100	16QAM	1	1	18.24	18.82	18.17	20.0	1.0		
100	64QAM	1	1	16.67	16.96	16.92	18.5	2.5		
100	256QAM	1	1	15.09	15.33	15.25	16.5	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	64988	65000	65032	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3740.01	3840	3939.99	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
70	QPSK	1	1	19.51	19.53	19.45	21.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.52	19.47	19.43	21.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	648334	650000	651666	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3720.01	3840	3944.99	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.52	19.45	19.48	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	647334	650000	651666	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.50	19.54	19.49	21.0	0.0		

Part270_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	19.32	3750					
100	PI2 BPSK	1	137	19.23			21.0	0.0		
100	PI2 BPSK	1	271	19.26						
100	PI2 BPSK	135	0	19.17			20.5	0.5		
100	PI2 BPSK	135	69	19.22			21.0	0.0		
100	PI2 BPSK	135	138	19.29			20.5	0.5		
100	PI2 BPSK	270	0	19.22						
100	QPSK	1	1	19.42						
100	QPSK	1	137	19.33			21.0	0.0		
100	QPSK	1	271	19.22						
100	QPSK	135	0	18.23						
100	QPSK	135	69	19.22			21.0	0.0		
100	QPSK	135	138	18.29						
100	QPSK	270	0	18.41			20.0	1.0		
100	16QAM	1	1	18.29			20.0	1.0		
100	64QAM	1	1	16.75			18.5	2.5		
100	256QAM	1	1	15.16			16.5	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	64988	65000	65032	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
70	QPSK	1	1	19.33	19.32	19.31	21.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.33	19.33	19.19	21.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	648334	650000	651666	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3720.01	3750	3774.99	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.15	19.41	19.14	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	647334	650000	652666	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.32	19.25	19.29	21.0	0.0		



Part270_n77_Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3750									
100	Pl2 BPSK	1	1	19.39	19.41	19.43			
100	Pl2 BPSK	1	137	19.49	19.75	19.58	21.0	0.0	
100	Pl2 BPSK	1	211	19.31	19.64	19.49			
100	Pl2 BPSK	135	0	18.54	18.54	18.57	20.5	0.5	
100	Pl2 BPSK	135	69	19.35	19.60	19.48	21.0	0.0	
100	Pl2 BPSK	135	138	18.56	18.56	18.52	20.5	0.5	
100	Pl2 BPSK	270	0	18.53	18.53	18.57			
100	QPSK	1	1	20.15	20.23	20.07			
100	QPSK	1	137	20.13	20.22	20.05	21.0	0.0	
100	QPSK	1	271	20.03	19.95	19.77			
100	QPSK	135	0	18.76	18.54	18.54			
100	QPSK	135	69	19.76	20.16	19.85	21.0	0.0	
100	QPSK	135	138	18.83	18.62	18.57			
100	QPSK	270	0	18.86	18.90	18.86	20.0	1.0	
100	16QAM	1	1	18.96	18.76	18.65	20.0	1.0	
100	16QAM	1	1	17.41	17.26	17.27	19.5	2.5	
100	256QAM	1	1	15.45	15.36	15.35	16.5	4.5	
Channel									
Frequency (MHz)									
649668									
90	QPSK	1	1	19.91	20.03	19.91	21.0	0.0	
Channel									
Frequency (MHz)									
649334									
80	QPSK	1	1	3740.01	3840	3593.99	21.0	0.0	
Channel									
Frequency (MHz)									
649334									
70	QPSK	1	1	19.91	20.09	19.94	21.0	0.0	
Channel									
Frequency (MHz)									
649668									
60	QPSK	1	1	19.88	19.95	19.82	21.0	0.0	
Channel									
Frequency (MHz)									
649334									
50	QPSK	1	1	3720.02	3840	3683.98	21.0	0.0	
Channel									
Frequency (MHz)									
649000									
40	QPSK	1	1	19.91	20.08	19.90	21.0	0.0	
Channel									
Frequency (MHz)									
649334									
30	QPSK	1	1	19.89	20.07	20.00	21.0	0.0	
Channel									
Frequency (MHz)									
647334									
20	QPSK	1	1	19.92	19.96	19.93	21.0	0.0	

Part270_n78_Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3750									
100	Pl2 BPSK	1	1			19.18			
100	Pl2 BPSK	1	137			19.37	21.0	0.0	
100	Pl2 BPSK	1	211			19.32			
100	Pl2 BPSK	135	0			19.29	20.5	0.5	
100	Pl2 BPSK	135	69			19.26	21.0	0.0	
100	Pl2 BPSK	135	138			19.24	20.5	0.5	
100	Pl2 BPSK	270	0			19.14			
100	QPSK	1	1			20.20			
100	QPSK	1	137			20.18	21.0	0.0	
100	QPSK	1	271			20.11			
100	QPSK	135	0			19.11			
100	QPSK	135	69			20.18	21.0	0.0	
100	QPSK	135	138			19.23			
100	QPSK	270	0			19.79	20.0	1.0	
100	16QAM	1	1			18.52	20.0	1.0	
100	16QAM	1	1			16.97	19.5	2.5	
100	256QAM	1	1			14.97	16.5	4.5	
Channel									
Frequency (MHz)									
649668									
90	QPSK	1	1	19.98	19.99	19.88	21.0	0.0	
Channel									
Frequency (MHz)									
649334									
80	QPSK	1	1	3740.01	3750	3759.99	21.0	0.0	
Channel									
Frequency (MHz)									
649000									
70	QPSK	1	1	20.11	20.07	20.05	21.0	0.0	
Channel									
Frequency (MHz)									
649668									
60	QPSK	1	1	20.12	20.18	19.99	21.0	0.0	
Channel									
Frequency (MHz)									
649334									
50	QPSK	1	1	3720.02	3750	3774.99	21.0	0.0	
Channel									
Frequency (MHz)									
649000									
40	QPSK	1	1	19.89	19.96	19.97	21.0	0.0	
Channel									
Frequency (MHz)									
649334									
30	QPSK	1	1	20.16	20.18	20.17	21.0	0.0	
Channel									
Frequency (MHz)									
647334									
20	QPSK	1	1	20.16	20.09	19.96	21.0	0.0	





Reduced Power for DSI 2

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.63	32.31	32.50	33.50	23.63	23.31	23.50	24.50
GPRS 1 Tx slot	32.61	32.29	32.48	33.50	23.61	23.29	23.48	24.50
GPRS 2 Tx slots	30.04	29.55	30.00	31.00	24.04	23.55	24.00	25.00
GPRS 3 Tx slots	28.21	28.15	28.18	29.00	23.95	23.89	23.92	24.74
GPRS 4 Tx slots	26.84	26.62	26.82	27.50	23.84	23.62	23.82	24.50
EDGE 1 Tx slot	26.38	26.23	26.38	27.00	17.38	17.23	17.38	18.00
EDGE 2 Tx slots	25.48	25.23	25.52	26.50	19.48	19.23	19.52	20.50
EDGE 3 Tx slots	23.25	23.18	23.31	24.00	18.99	18.92	19.05	19.74
EDGE 4 Tx slots	21.24	21.25	21.31	22.00	18.24	18.25	18.31	19.00

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	30.27	30.15	30.55	31.00	21.27	21.15	21.55	22.00
GPRS 1 Tx slot	30.26	30.12	30.53	31.00	21.26	21.12	21.53	22.00
GPRS 2 Tx slots	28.31	28.45	28.63	29.00	22.31	22.45	22.63	23.00
GPRS 3 Tx slots	26.49	26.41	26.48	27.50	22.23	22.15	22.22	23.24
GPRS 4 Tx slots	24.44	24.40	24.19	25.50	21.44	21.40	21.19	22.50
EDGE 1 Tx slot	26.23	26.07	26.17	27.00	17.23	17.07	17.17	18.00
EDGE 2 Tx slots	24.11	24.02	23.97	25.00	18.11	18.02	17.97	19.00
EDGE 3 Tx slots	23.21	22.98	22.99	24.00	18.95	18.72	18.73	19.74
EDGE 4 Tx slots	21.03	21.03	21.10	22.00	18.03	18.03	18.10	19.00

Band	TX Channel	WCDMA II_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 0			Tune-up Limit (dBm)
		Rx Channel	9262	9400		9538	1312	1413		1513	4132	4182	
	Frequency (MHz)	9662	9800	9938		1537	1638	1738		4357	4407	4458	
		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.52	23.58	23.56	24.00	23.38	23.59	23.58	24.00	23.04	23.05	23.03	24.00
3GPP Rel 99	RMC 12.2Kbps	23.53	23.59	23.58	24.00	23.41	23.61	23.60	24.00	23.05	23.06	23.04	24.00
3GPP Rel 6	HSDPA Subtest-1	22.58	22.59	22.59	23.00	22.37	22.62	22.57	23.00	22.07	22.05	22.07	23.00
3GPP Rel 6	HSDPA Subtest-2	22.55	22.59	22.52	23.00	22.41	22.57	22.60	23.00	22.09	22.05	22.10	23.00
3GPP Rel 6	HSDPA Subtest-3	22.07	22.07	22.10	22.50	21.87	22.09	22.06	22.50	21.60	21.59	21.61	22.50
3GPP Rel 6	HSDPA Subtest-4	22.05	22.04	22.08	22.50	21.90	21.70	22.10	22.50	21.61	21.57	21.60	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.41	22.53	22.54	23.00	22.32	22.57	22.49	23.00	22.05	21.87	21.93	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.43	22.42	22.48	23.00	22.40	22.46	22.59	23.00	21.99	21.91	21.92	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.05	22.00	22.05	22.50	21.76	21.93	21.97	22.50	21.49	21.56	21.59	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.93	21.99	21.99	22.50	21.89	21.61	21.99	22.50	21.44	21.44	21.55	22.50
3GPP Rel 6	HSUPA Subtest-1	22.57	22.63	22.62	23.00	22.41	22.62	22.60	23.00	22.10	22.04	22.09	23.00
3GPP Rel 6	HSUPA Subtest-2	20.57	20.61	20.61	21.00	20.42	20.61	20.64	21.00	20.07	20.02	20.09	21.00
3GPP Rel 6	HSUPA Subtest-3	21.54	21.63	21.59	22.00	21.40	21.57	21.64	22.00	21.11	21.06	21.09	22.00
3GPP Rel 6	HSUPA Subtest-4	20.58	20.62	20.64	21.00	20.34	20.59	20.58	21.00	20.07	20.08	20.08	21.00
3GPP Rel 6	HSUPA Subtest-5	22.60	22.62	22.60	23.00	22.40	22.60	22.60	23.00	22.10	22.10	22.00	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.77	20.53	20.77	21.00	20.65	20.60	20.74	21.00	20.43	20.26	20.25	21.00











### Part270\_n77\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1	16.79	16.83	16.86		
100	Pi/2 BPSK	1	137	16.95	16.89	16.84	18.0	0.0
100	Pi/2 BPSK	1	271	16.94	16.93	16.77		
100	Pi/2 BPSK	135	0	16.76	16.83	16.80	18.0	0.0
100	Pi/2 BPSK	135	69	16.90	16.85	16.72	18.0	0.0
100	Pi/2 BPSK	135	138	16.79	16.73	16.63	18.0	0.0
100	Pi/2 BPSK	270	0	16.87	16.76	16.69		
100	QPSK	1	1	16.91	16.88	16.96		
100	QPSK	1	137	16.87	16.94	16.88	18.0	0.0
100	QPSK	1	271	16.76	16.95	16.80		
100	QPSK	135	0	16.89	16.81	16.71		
100	QPSK	135	69	16.72	16.95	16.94	18.0	0.0
100	QPSK	135	138	16.68	16.86	16.70		
100	QPSK	270	0	16.82	16.77	16.65	18.0	0.0
100	16QAM	1	1	16.83	16.91	16.80	18.0	0.0
100	16QAM	1	1	16.68	16.84	16.71	18.0	0.0
100	256QAM	1	1	16.82	16.97	16.84	18.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.78	16.92	16.96	18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.73	16.07	16.86	18.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.88	16.82	16.95	18.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.88	16.88	16.91	18.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.74	16.94	16.93	18.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.84	16.83	16.82	18.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.79	16.94	16.95	18.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.88	16.86	16.87	18.0	0.0

### Part270\_n78\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1		16.71			
100	Pi/2 BPSK	1	137	16.81	16.81	16.81	18.0	0.0
100	Pi/2 BPSK	1	271		16.96			
100	Pi/2 BPSK	135	0		16.68		18.0	0.0
100	Pi/2 BPSK	135	69		16.70		18.0	0.0
100	Pi/2 BPSK	135	138		16.97		18.0	0.0
100	Pi/2 BPSK	270	0		16.71			
100	QPSK	1	1		16.90			
100	QPSK	1	137		16.88		18.0	0.0
100	QPSK	1	271		16.82			
100	QPSK	135	0		16.72			
100	QPSK	135	69		16.85		18.0	0.0
100	QPSK	135	138		16.74			
100	QPSK	270	0		16.65		18.0	0.0
100	16QAM	1	1		16.77		18.0	0.0
100	16QAM	1	1		16.71		18.0	0.0
100	256QAM	1	1		16.87		18.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	16.82	16.99	16.84	18.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.08	16.86	16.73	18.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.68	16.82	16.82	18.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	16.84	16.71	16.69	18.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.72	16.74	16.77	18.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.69	16.72	16.84	18.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.80	16.77	16.83	18.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.76	16.74	16.85	18.0	0.0

### Part270\_n77\_Ant 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi/2 BPSK	1	1	19.81	19.56	19.46		
100	Pi/2 BPSK	1	137	19.71	19.89	19.84	21.0	0.0
100	Pi/2 BPSK	1	271	19.81	19.53	19.52		
100	Pi/2 BPSK	135	0	18.69	18.92	18.57	20.5	0.5
100	Pi/2 BPSK	135	69	19.03	19.00	19.14	21.0	0.0
100	Pi/2 BPSK	135	138	18.55	18.52	18.53	20.5	0.5
100	Pi/2 BPSK	270	0	18.56	19.54	19.41		
100	QPSK	1	1	19.72	19.83	19.67		
100	QPSK	1	137	19.51	19.17	19.23	21.0	0.0
100	QPSK	1	271	19.47	19.11	19.05		
100	QPSK	135	0	18.66	18.54	18.51		
100	QPSK	135	69	19.71	19.80	19.35	21.0	0.0
100	QPSK	135	138	18.47	18.26	18.35		
100	QPSK	270	0	18.69	18.79	18.34	20.0	1.0
100	16QAM	1	1	18.91	18.70	18.12	20.0	1.0
100	16QAM	1	1	18.53	17.19	16.60	18.5	2.5
100	256QAM	1	1	18.82	18.73	18.14	18.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	19.38	19.90	19.40	21.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	19.42	19.46	19.46	21.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.49	19.53	19.37	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	19.38	19.49	19.37	21.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	19.39	19.58	19.46	21.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.46	19.52	19.45	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	19.46	19.50	19.36	21.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.50	19.48	19.47	21.0	0.0





Part270_n77_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1	19.39	19.41	19.43	21.0	0.0	
100	Pl2 BPSK	1	137	19.49	19.75	19.58			
100	Pl2 BPSK	1	211	19.31	19.54	19.49			
100	Pl2 BPSK	135	0	18.54	18.54	18.57	20.5	0.5	
100	Pl2 BPSK	135	69	19.35	19.60	19.48	21.0	0.0	
100	Pl2 BPSK	135	138	18.56	18.56	18.52	20.5	0.5	
100	Pl2 BPSK	270	0	18.53	18.53	18.57			
100	QPSK	1	1	20.15	20.23	20.07			
100	QPSK	1	137	20.13	20.22	20.05	21.0	0.0	
100	QPSK	1	271	20.03	19.95	19.77			
100	QPSK	135	0	18.78	18.84	18.54			
100	QPSK	135	69	19.76	20.16	19.95	21.0	0.0	
100	QPSK	135	138	18.83	18.62	18.57			
100	QPSK	270	0	18.86	18.90	18.56	20.0	1.0	
100	16QAM	1	1	18.96	18.76	18.65	20.0	1.0	
100	16QAM	1	1	17.41	17.26	17.27	18.5	2.5	
100	256QAM	1	1	15.45	15.36	15.35	16.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.91	20.03	19.91	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.07	20.04	19.86	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	19.91	20.09	19.94	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	19.86	19.95	19.82	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.59	20.08	19.90	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.59	20.08	19.90	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	19.80	20.07	20.00	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	19.92	19.96	19.93	21.0	0.0	

Part270_n78_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1				21.0	0.0	
100	Pl2 BPSK	1	137						
100	Pl2 BPSK	1	211						
100	Pl2 BPSK	135	0	19.29			20.5	0.5	
100	Pl2 BPSK	135	69	19.26			21.0	0.0	
100	Pl2 BPSK	135	138	19.24			20.5	0.5	
100	Pl2 BPSK	270	0	19.14					
100	QPSK	1	1	20.20					
100	QPSK	1	137	20.18			21.0	0.0	
100	QPSK	1	271	20.11					
100	QPSK	135	0	19.11					
100	QPSK	135	69	20.18			21.0	0.0	
100	QPSK	135	138	19.23					
100	QPSK	270	0	18.79			20.0	1.0	
100	16QAM	1	1	18.52			20.0	1.0	
100	16QAM	1	1	18.97			18.5	2.5	
100	256QAM	1	1	14.97			16.5	4.5	
Channel									
Frequency (MHz)									
90	QPSK	1	1	19.98	19.99	19.88	21.0	0.0	
Channel									
Frequency (MHz)									
80	QPSK	1	1	19.08	19.96	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
70	QPSK	1	1	20.11	20.07	20.05	21.0	0.0	
Channel									
Frequency (MHz)									
60	QPSK	1	1	20.12	20.18	19.99	21.0	0.0	
Channel									
Frequency (MHz)									
50	QPSK	1	1	19.54	20.17	19.98	21.0	0.0	
Channel									
Frequency (MHz)									
40	QPSK	1	1	19.89	19.96	19.97	21.0	0.0	
Channel									
Frequency (MHz)									
30	QPSK	1	1	20.16	20.18	20.17	21.0	0.0	
Channel									
Frequency (MHz)									
20	QPSK	1	1	20.16	20.09	19.96	21.0	0.0	





Reduced Power for DSI 3

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	30.74	30.44	30.64	31.50	21.74	21.44	21.64	22.50
GPRS 1 Tx slot	30.71	30.42	30.62	31.50	21.71	21.42	21.62	22.50
GPRS 2 Tx slots	28.12	27.69	28.03	29.00	22.12	21.69	22.03	23.00
GPRS 3 Tx slots	26.41	26.26	26.44	27.00	22.15	22.00	22.18	22.74
GPRS 4 Tx slots	25.06	24.74	24.93	25.50	22.06	21.74	21.93	22.50
EDGE 1 Tx slot	25.60	25.34	25.47	26.00	16.60	16.34	16.47	17.00
EDGE 2 Tx slots	23.49	23.49	23.58	24.50	17.49	17.49	17.58	18.50
EDGE 3 Tx slots	21.39	21.42	21.51	22.00	17.13	17.16	17.25	17.74
EDGE 4 Tx slots	19.41	19.48	19.50	20.00	16.41	16.48	16.50	17.00

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	25.80	25.56	25.69	26.00	16.80	16.56	16.69	17.00
GPRS 1 Tx slot	25.78	25.54	25.67	26.00	16.78	16.54	16.67	17.00
GPRS 2 Tx slots	23.79	23.61	23.69	24.00	17.79	17.61	17.69	18.00
GPRS 3 Tx slots	21.92	21.64	21.77	22.50	17.66	17.38	17.51	18.24
GPRS 4 Tx slots	19.78	19.88	19.77	20.50	16.78	16.88	16.77	17.50
EDGE 1 Tx slot	22.52	22.09	22.31	23.00	13.52	13.09	13.31	14.00
EDGE 2 Tx slots	19.47	19.26	19.07	20.00	13.47	13.26	13.07	14.00
EDGE 3 Tx slots	18.52	18.24	18.16	19.00	14.26	13.98	13.90	14.74
EDGE 4 Tx slots	16.19	16.21	16.07	17.00	13.19	13.21	13.07	14.00

Band	TX Channel	WCDMA II_Ant 0			Tune-up Limit (dBm)	WCDMA IV_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 0			Tune-up Limit (dBm)
		Rx Channel	9262	9400		9538	1312	1413		1513	4132	4182	
	Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	17.50	17.53	17.43	18.00	18.80	18.77	18.66	19.50	22.06	22.12	22.10	23.00
3GPP Rel 99	RMC 12.2Kbps	17.52	17.55	17.46	18.00	18.82	18.84	18.68	19.50	22.08	22.15	22.12	23.00
3GPP Rel 6	HSDPA Subtest-1	16.54	16.45	16.46	17.00	17.76	18.04	18.01	18.50	21.02	20.97	20.97	22.00
3GPP Rel 6	HSDPA Subtest-2	16.55	16.42	16.59	17.00	17.96	18.13	18.19	18.50	20.94	21.06	21.01	22.00
3GPP Rel 6	HSDPA Subtest-3	15.98	16.14	15.90	16.50	17.37	17.61	17.64	18.00	20.46	20.60	20.55	21.50
3GPP Rel 6	HSDPA Subtest-4	15.98	16.07	15.92	16.50	17.38	17.04	17.60	18.00	20.48	20.53	20.47	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	16.53	16.52	16.55	17.00	17.63	17.87	17.97	18.50	20.89	20.85	20.75	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	16.42	16.31	16.33	17.00	17.84	17.91	18.13	18.50	21.01	20.73	20.78	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	16.00	15.86	16.03	16.50	17.34	17.25	17.43	18.00	20.38	20.47	20.61	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	15.80	16.04	15.80	16.50	17.27	16.97	17.46	18.00	20.35	20.33	20.43	21.50
3GPP Rel 6	HSUPA Subtest-1	16.44	16.52	16.53	17.00	17.81	18.08	18.11	18.50	20.95	20.94	21.09	22.00
3GPP Rel 6	HSUPA Subtest-2	14.48	14.59	14.53	15.00	15.80	16.17	16.13	16.50	18.92	18.87	19.07	20.00
3GPP Rel 6	HSUPA Subtest-3	15.56	15.64	15.56	16.00	16.67	16.90	17.05	17.50	20.12	20.05	19.93	21.00
3GPP Rel 6	HSUPA Subtest-4	14.46	14.68	14.59	15.00	15.84	16.06	16.11	16.50	18.98	19.07	19.02	20.00
3GPP Rel 6	HSUPA Subtest-5	16.38	16.60	16.55	17.00	17.91	18.02	18.11	18.50	21.08	21.12	20.92	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	14.48	14.52	14.45	15.00	16.03	16.14	16.19	16.50	19.15	19.13	19.16	20.00



Table for Band 2\_Ant 0. Columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power High Ch / Freq, Power Typ Ch / Freq, Time-up (s), MPR (dB), Channel. Lists frequency allocations for various antenna configurations.

Table for Band 4\_Ant 0. Columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power High Ch / Freq, Power Typ Ch / Freq, Time-up (s), MPR (dB), Channel. Lists frequency allocations for various antenna configurations.

Table for Band 12\_Ant 0. Columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power High Ch / Freq, Power Typ Ch / Freq, Time-up (s), MPR (dB), Channel. Lists frequency allocations for various antenna configurations.



Band 17\_Ant 0

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power High Ch / Freq, Tuning (MHz), MPR (dB). Includes sub-headers for Channel and Frequency (MHz) with multiple rows of modulation parameters.

Band 26\_Ant 0

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power High Ch / Freq, Tuning (MHz), MPR (dB). Includes sub-headers for Channel and Frequency (MHz) with multiple rows of modulation parameters.







### Part270\_n77\_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	15.56	15.61	15.63		
100	Pi2 BPSK	1	137	15.47	15.62	15.47	17.0	0.0
100	Pi2 BPSK	1	211	15.58	15.74	15.89		
100	Pi2 BPSK	135	0	15.46	15.60	15.56	17.0	0.0
100	Pi2 BPSK	135	69	15.56	15.87	15.49	17.0	0.0
100	Pi2 BPSK	135	138	15.56	15.62	15.61	17.0	0.0
100	Pi2 BPSK	210	0	15.58	15.80	15.43		
100	QPSK	1	1	15.67	15.83	15.83		
100	QPSK	1	137	15.64	15.74	15.86	17.0	0.0
100	QPSK	1	211	15.62	15.82	15.58		
100	QPSK	135	0	15.51	15.58	15.40		
100	QPSK	135	69	15.54	15.80	15.81	17.0	0.0
100	QPSK	135	138	15.52	15.58	15.59		
100	QPSK	210	0	15.80	15.78	15.86	17.0	0.0
100	16QAM	1	1	15.83	15.81	15.83	17.0	0.0
100	16QAM	1	1	15.82	15.74	15.80	17.0	0.0
100	256QAM	1	1	15.80	15.82	15.84	17.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.64	15.72	15.46	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.48	15.79	15.62	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.52	15.79	15.47	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.48	15.70	15.48	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.64	15.62	15.53	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.64	15.62	15.53	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.60	15.69	15.60	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.49	15.68	15.44	17.0	0.0

### Part270\_n78\_Ant 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1		15.75			
100	Pi2 BPSK	1	137		15.72		17.0	0.0
100	Pi2 BPSK	1	211		15.42			
100	Pi2 BPSK	135	0		15.73		17.0	0.0
100	Pi2 BPSK	135	69		15.82		17.0	0.0
100	Pi2 BPSK	135	138		15.34		17.0	0.0
100	Pi2 BPSK	210	0		15.83			
100	QPSK	1	1		15.87			
100	QPSK	1	137		15.82		17.0	0.0
100	QPSK	1	211		15.33			
100	QPSK	135	0		15.82			
100	QPSK	135	69		15.72		17.0	0.0
100	QPSK	135	138		15.42			
100	QPSK	210	0		15.87		17.0	0.0
100	16QAM	1	1		15.82		17.0	0.0
100	16QAM	1	1		15.88		17.0	0.0
100	256QAM	1	1		15.83		17.0	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	15.60	15.70	15.48	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.50	15.58	15.47	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.45	15.64	15.56	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.51	15.72	15.58	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.42	15.70	15.63	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.47	15.63	15.86	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.81	15.52	15.60	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.48	15.68	15.53	17.0	0.0

### Part270\_n77\_Ant 3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	11.21	11.23	11.20		
100	Pi2 BPSK	1	137	11.12	11.22	11.25	12.5	0.0
100	Pi2 BPSK	1	211	11.26	11.26	11.21		
100	Pi2 BPSK	135	0	11.11	11.23	11.25	12.5	0.0
100	Pi2 BPSK	135	69	10.84	11.02	11.03	12.5	0.0
100	Pi2 BPSK	135	138	11.11	11.16	11.09	12.5	0.0
100	Pi2 BPSK	210	0	10.88	11.06	10.98		
100	QPSK	1	1	11.16	11.34	11.14		
100	QPSK	1	137	10.95	11.13	11.05	12.5	0.0
100	QPSK	1	211	10.88	11.10	11.08		
100	QPSK	135	0	11.08	11.11	10.94		
100	QPSK	135	69	11.17	11.32	11.05	12.5	0.0
100	QPSK	135	138	11.04	11.07	10.88		
100	QPSK	210	0	11.23	11.30	11.28	12.5	0.0
100	16QAM	1	1	11.30	11.32	11.32	12.5	0.0
100	16QAM	1	1	11.14	11.31	11.32	12.5	0.0
100	256QAM	1	1	11.18	11.16	11.05	12.5	0.0
Channel								
Frequency (MHz)								
90	QPSK	1	1	11.19	11.17	11.16	12.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	11.19	11.24	11.13	12.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	11.08	11.25	11.16	12.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	11.15	11.30	11.04	12.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	11.06	11.22	11.04	12.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	11.01	11.22	11.04	12.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	11.08	11.32	11.00	12.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	11.18	11.31	10.99	12.5	0.0





Part270_n77_Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3750									
100	Pl2 BPSK	1	1	16.15	16.18	16.05			
100	Pl2 BPSK	1	137	16.13	16.12	16.01	17.0	0.0	
100	Pl2 BPSK	1	211	15.97	16.15	16.00			
100	Pl2 BPSK	135	0	16.06	16.05	16.02	17.0	0.0	
100	Pl2 BPSK	135	69	16.00	16.07	15.92	17.0	0.0	
100	Pl2 BPSK	135	138	16.01	16.04	15.92	17.0	0.0	
100	Pl2 BPSK	270	0	15.97	16.03	16.05			
100	QPSK	1	1	16.05	16.21	16.12			
100	QPSK	1	137	15.95	16.10	15.96	17.0	0.0	
100	QPSK	1	271	15.83	16.10	16.07			
100	QPSK	135	0	15.85	15.97	15.86			
100	QPSK	135	69	16.03	16.16	16.05	17.0	0.0	
100	QPSK	135	138	15.96	16.02	15.93			
100	QPSK	270	0	15.99	16.15	16.09	17.0	0.0	
100	16QAM	1	1	16.01	16.19	16.08	17.0	0.0	
100	16QAM	1	1	16.02	16.20	16.12	17.0	0.0	
100	256QAM	1	1	14.72	14.77	14.78	16.5	0.5	
Channel									
Frequency (MHz)									
649668									
90	QPSK	1	1	16.04	16.17	16.07	17.0	0.0	
Channel									
Frequency (MHz)									
649334									
80	QPSK	1	1	16.07	16.10	16.07	17.0	0.0	
Channel									
Frequency (MHz)									
650000									
70	QPSK	1	1	16.05	16.03	15.96	17.0	0.0	
Channel									
Frequency (MHz)									
649668									
60	QPSK	1	1	15.88	16.19	16.06	17.0	0.0	
Channel									
Frequency (MHz)									
649334									
50	QPSK	1	1	15.96	15.99	15.93	17.0	0.0	
Channel									
Frequency (MHz)									
649000									
40	QPSK	1	1	15.98	16.14	16.05	17.0	0.0	
Channel									
Frequency (MHz)									
649100									
30	QPSK	1	1	15.89	16.17	15.98	17.0	0.0	
Channel									
Frequency (MHz)									
647334									
20	QPSK	1	1	15.87	16.14	16.04	17.0	0.0	

Part270_n78_Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3750									
100	Pl2 BPSK	1	1			16.18			
100	Pl2 BPSK	1	137			16.13			
100	Pl2 BPSK	1	211			16.12	17.0	0.0	
100	Pl2 BPSK	135	0			15.96	17.0	0.0	
100	Pl2 BPSK	135	69			15.99	17.0	0.0	
100	Pl2 BPSK	135	138			16.06	17.0	0.0	
100	Pl2 BPSK	270	0			15.99			
100	QPSK	1	1			16.24			
100	QPSK	1	137			16.12	17.0	0.0	
100	QPSK	1	271			16.03			
100	QPSK	135	0			15.92			
100	QPSK	135	69			16.15	17.0	0.0	
100	QPSK	135	138			15.99			
100	QPSK	270	0			16.17	17.0	0.0	
100	16QAM	1	1			16.18	17.0	0.0	
100	16QAM	1	1			16.12	17.0	0.0	
100	256QAM	1	1			14.73	16.5	0.5	
Channel									
Frequency (MHz)									
649668									
90	QPSK	1	1	16.16	16.19	16.22	17.0	0.0	
Channel									
Frequency (MHz)									
649334									
80	QPSK	1	1	16.18	16.05	16.16	17.0	0.0	
Channel									
Frequency (MHz)									
649000									
70	QPSK	1	1	16.16	16.21	16.11	17.0	0.0	
Channel									
Frequency (MHz)									
649668									
60	QPSK	1	1	16.13	16.16	16.17	17.0	0.0	
Channel									
Frequency (MHz)									
649334									
50	QPSK	1	1	16.06	16.03	16.10	17.0	0.0	
Channel									
Frequency (MHz)									
649000									
40	QPSK	1	1	16.14	16.04	16.06	17.0	0.0	
Channel									
Frequency (MHz)									
649100									
30	QPSK	1	1	16.15	16.10	16.19	17.0	0.0	
Channel									
Frequency (MHz)									
647334									
20	QPSK	1	1	16.16	16.14	16.04	17.0	0.0	





Reduced Power for DSI 4

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.63	32.31	32.50	33.50	23.63	23.31	23.50	24.50
GPRS 1 Tx slot	32.61	32.29	32.48	33.50	23.61	23.29	23.48	24.50
GPRS 2 Tx slots	30.04	29.55	30.00	31.00	24.04	23.55	24.00	25.00
GPRS 3 Tx slots	28.21	28.15	28.18	29.00	23.95	23.89	23.92	24.74
GPRS 4 Tx slots	26.84	26.62	26.82	27.50	23.84	23.62	23.82	24.50
EDGE 1 Tx slot	26.38	26.23	26.38	27.00	17.38	17.23	17.38	18.00
EDGE 2 Tx slots	25.48	25.23	25.52	26.50	19.48	19.23	19.52	20.50
EDGE 3 Tx slots	23.25	23.18	23.31	24.00	18.99	18.92	19.05	19.74
EDGE 4 Tx slots	21.24	21.25	21.31	22.00	18.24	18.25	18.31	19.00

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	30.27	30.15	30.55	31.00	21.27	21.15	21.55	22.00
GPRS 1 Tx slot	30.26	30.12	30.53	31.00	21.26	21.12	21.53	22.00
GPRS 2 Tx slots	28.31	28.45	28.63	29.00	22.31	22.45	22.63	23.00
GPRS 3 Tx slots	26.49	26.41	26.48	27.50	22.23	22.15	22.22	23.24
GPRS 4 Tx slots	24.44	24.40	24.19	25.50	21.44	21.40	21.19	22.50
EDGE 1 Tx slot	26.23	26.07	26.17	27.00	17.23	17.07	17.17	18.00
EDGE 2 Tx slots	24.11	24.02	23.97	25.00	18.11	18.02	17.97	19.00
EDGE 3 Tx slots	23.21	22.98	22.99	24.00	18.95	18.72	18.73	19.74
EDGE 4 Tx slots	21.03	21.03	21.10	22.00	18.03	18.03	18.10	19.00

Band	TX Channel	WCDMA_II_Ant 0			Tune-up Limit (dBm)	WCDMA_IV_Ant 0			Tune-up Limit (dBm)	WCDMA_V_Ant 0			Tune-up Limit (dBm)
		Rx Channel	9262	9400		9538	1312	1413		1513	4132	4182	
	Frequency (MHz)	9662	9800	9938		1537	1638	1738		4357	4407	4458	
		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.52	23.58	23.56	24.00	23.38	23.59	23.58	24.00	23.04	23.05	23.03	24.00
3GPP Rel 99	RMC 12.2Kbps	23.53	23.59	23.58	24.00	23.41	23.61	23.60	24.00	23.05	23.06	23.04	24.00
3GPP Rel 6	HSDPA Subtest-1	22.58	22.59	22.59	23.00	22.37	22.62	22.57	23.00	22.07	22.05	22.07	23.00
3GPP Rel 6	HSDPA Subtest-2	22.55	22.59	22.52	23.00	22.41	22.57	22.60	23.00	22.09	22.05	22.10	23.00
3GPP Rel 6	HSDPA Subtest-3	22.07	22.07	22.10	22.50	21.87	22.09	22.06	22.50	21.60	21.59	21.61	22.50
3GPP Rel 6	HSDPA Subtest-4	22.05	22.04	22.08	22.50	21.90	21.70	22.10	22.50	21.61	21.57	21.60	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.41	22.53	22.54	23.00	22.32	22.57	22.49	23.00	22.05	21.87	21.93	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.43	22.42	22.48	23.00	22.40	22.46	22.59	23.00	21.99	21.91	21.92	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.05	22.00	22.05	22.50	21.76	21.93	21.97	22.50	21.49	21.56	21.59	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.93	21.99	21.99	22.50	21.89	21.61	21.99	22.50	21.44	21.44	21.55	22.50
3GPP Rel 6	HSUPA Subtest-1	22.57	22.63	22.62	23.00	22.41	22.62	22.60	23.00	22.10	22.04	22.09	23.00
3GPP Rel 6	HSUPA Subtest-2	20.57	20.61	20.61	21.00	20.42	20.61	20.64	21.00	20.07	20.02	20.09	21.00
3GPP Rel 6	HSUPA Subtest-3	21.54	21.63	21.59	22.00	21.40	21.57	21.64	22.00	21.11	21.06	21.09	22.00
3GPP Rel 6	HSUPA Subtest-4	20.58	20.62	20.64	21.00	20.34	20.59	20.58	21.00	20.07	20.08	20.08	21.00
3GPP Rel 6	HSUPA Subtest-5	22.60	22.62	22.60	23.00	22.40	22.60	22.60	23.00	22.10	22.10	22.00	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.77	20.53	20.77	21.00	20.65	20.60	20.74	21.00	20.43	20.26	20.25	21.00





Band 17\_Ant 0

Table for Band 17\_Ant 0 with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Mid Ch / Freq, Power High Ch / Freq, Tuning (MHz), MPR (dB). Includes sub-headers for Frequency (MHz) and Channel.

Band 26\_Ant 0

Table for Band 26\_Ant 0 with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch / Freq, Power Mid Ch / Freq, Power High Ch / Freq, Tuning (MHz), MPR (dB). Includes sub-headers for Frequency (MHz) and Channel.







### Part270\_n77\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1	21.47	21.65	21.55		
100	Pl2 BPSK	1	137	21.60	21.73	21.72	23.0	0.0
100	Pl2 BPSK	1	211	21.72	21.77	21.89		
100	Pl2 BPSK	135	0	21.47	21.55	21.48	23.0	0.0
100	Pl2 BPSK	135	69	21.62	21.65	21.57	23.0	0.0
100	Pl2 BPSK	135	138	21.40	21.48	21.34	23.0	0.0
100	Pl2 BPSK	270	0	21.37	21.51	21.39		
100	QPSK	1	1	21.63	21.81	21.65		
100	QPSK	1	137	21.51	21.70	21.58	23.0	0.0
100	QPSK	1	271	21.53	21.71	21.80		
100	QPSK	135	0	21.52	21.56	21.46		
100	QPSK	135	69	21.62	21.78	21.63	23.0	0.0
100	QPSK	135	138	21.53	21.62	21.56		
100	QPSK	270	0	21.68	21.75	21.67	23.0	0.0
100	8QAM	1	1	21.61	21.79	21.73	23.0	0.0
100	8QAM	1	1	20.09	20.15	20.04	21.5	1.5
100	256QAM	1	1	18.19	18.27	18.22	18.5	3.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.52	21.68	21.63	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.44	21.70	21.50	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.61	21.69	21.53	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.52	21.79	21.57	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.44	21.77	21.63	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.60	21.70	21.53	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.58	21.69	21.47	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.55	21.61	21.62	23.0	0.0

### Part270\_n78\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1		21.65			
100	Pl2 BPSK	1	137	21.59	21.59	21.59	23.0	0.0
100	Pl2 BPSK	1	211		21.72			
100	Pl2 BPSK	135	0		21.37		23.0	0.0
100	Pl2 BPSK	135	69		21.51		23.0	0.0
100	Pl2 BPSK	135	138		21.39		23.0	0.0
100	Pl2 BPSK	270	0		21.36			
100	QPSK	1	1		21.74			
100	QPSK	1	137		21.63		23.0	0.0
100	QPSK	1	271		21.59			
100	QPSK	135	0		21.43			
100	QPSK	135	69		21.71		23.0	0.0
100	QPSK	135	138		21.84			
100	QPSK	270	0		21.88		23.0	0.0
100	8QAM	1	1		21.67		23.0	0.0
100	8QAM	1	1		20.15		21.5	1.5
100	256QAM	1	1		18.26		18.5	3.5
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.63	21.72	21.71	23.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	21.00	21.62	21.58	23.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	21.57	21.55	21.67	23.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	21.62	21.69	21.58	23.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	21.58	21.58	21.67	23.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	21.60	21.54	21.61	23.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	21.63	21.65	21.67	23.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	21.45	21.68	21.56	23.0	0.0

### Part270\_n77\_Ant 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1	15.87	16.00	16.01		
100	Pl2 BPSK	1	137	16.04	16.07	16.01	17.5	0.0
100	Pl2 BPSK	1	211	16.22	16.25	16.07		
100	Pl2 BPSK	135	0	15.97	15.97	15.86	17.5	0.0
100	Pl2 BPSK	135	69	15.81	15.86	15.93	17.5	0.0
100	Pl2 BPSK	135	138	15.87	16.00	15.88	17.5	0.0
100	Pl2 BPSK	270	0	15.90	15.97	15.93		
100	QPSK	1	1	16.06	16.27	16.06		
100	QPSK	1	137	15.98	16.08	15.95	17.5	0.0
100	QPSK	1	271	16.02	16.22	15.92		
100	QPSK	135	0	16.04	16.09	16.06		
100	QPSK	135	69	16.03	16.25	16.11	17.5	0.0
100	QPSK	135	138	15.90	15.98	15.90		
100	QPSK	270	0	16.06	16.22	16.17	17.5	0.0
100	8QAM	1	1	16.22	16.26	16.18	17.5	0.0
100	8QAM	1	1	16.26	16.24	16.12	17.5	0.0
100	256QAM	1	1	14.78	14.82	14.71	16.5	1.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.96	16.11	16.10	17.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	16.05	16.25	16.10	17.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.05	16.12	16.12	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.92	16.23	16.00	17.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.91	16.17	16.16	17.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.85	16.19	16.06	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	16.03	16.24	16.06	17.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.85	16.23	16.09	17.5	0.0



### Part270\_n78\_Ant 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.91			17.5	0.0
100	PI2 BPSK	1	137	16.07				
100	PI2 BPSK	1	271	16.10				
100	PI2 BPSK	135	0	15.90			17.5	0.0
100	PI2 BPSK	135	69	15.91			17.5	0.0
100	PI2 BPSK	135	138	15.94			17.5	0.0
100	PI2 BPSK	270	0	15.86				
100	QPSK	1	1	16.25				
100	QPSK	1	137	16.02			17.5	0.0
100	QPSK	1	271	16.04				
100	QPSK	135	0	16.04				
100	QPSK	135	69	16.18			17.5	0.0
100	QPSK	135	138	15.98				
100	QPSK	270	0	16.12			17.5	0.0
100	16QAM	1	1	16.21			17.5	0.0
100	64QAM	1	1	16.23			17.5	0.0
100	256QAM	1	1	14.65			16.5	1.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	64988	65000	65032	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3740	3749.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	16.06	16.13	16.16	17.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	64834	65000	65066	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	3720.01	3740	3749.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	16.17	16.12	15.99	17.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	64734	65000	65466	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.14	16.10	16.12	17.5	0.0

### Part270\_n77\_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.41	19.43	19.31	21.0	0.0
100	PI2 BPSK	1	137	19.46	19.52	19.27		
100	PI2 BPSK	1	271	19.27	19.34	19.08		
100	PI2 BPSK	135	0	19.60	18.63	18.54	20.5	0.5
100	PI2 BPSK	135	69	19.37	19.42	19.36	21.0	0.0
100	PI2 BPSK	135	138	18.51	18.59	18.52	20.5	0.5
100	PI2 BPSK	270	0	18.58	18.56	18.64		
100	QPSK	1	1	19.24	19.28	19.45		
100	QPSK	1	137	19.15	19.03	19.01	21.0	0.0
100	QPSK	1	271	19.18	19.05	19.00		
100	QPSK	135	0	19.21	18.37	18.20		
100	QPSK	135	69	19.10	19.53	19.35	21.0	0.0
100	QPSK	135	138	18.35	18.29	18.11		
100	QPSK	270	0	18.27	18.46	18.20	20.0	1.0
100	16QAM	1	1	18.24	18.52	18.17	20.0	1.0
100	64QAM	1	1	18.67	18.96	18.62	18.5	2.5
100	256QAM	1	1	15.09	15.33	15.25	16.5	4.5
Channel								
Frequency (MHz)								
50	QPSK	1	1	64988	65000	65032	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3740	3749.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.56	19.55	19.41	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	64834	65000	65066	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	3720.01	3740	3749.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.56	19.54	19.45	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	64734	65000	65466	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.50	19.54	19.49	21.0	0.0

### Part270\_n78\_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.32			21.0	0.0
100	PI2 BPSK	1	137	19.23				
100	PI2 BPSK	1	271	19.26				
100	PI2 BPSK	135	0	19.17			20.5	0.5
100	PI2 BPSK	135	69	19.22			21.0	0.0
100	PI2 BPSK	135	138	19.29			20.5	0.5
100	PI2 BPSK	270	0	19.22				
100	QPSK	1	1	19.42				
100	QPSK	1	137	19.33			21.0	0.0
100	QPSK	1	271	19.22				
100	QPSK	135	0	18.33				
100	QPSK	135	69	19.22			21.0	0.0
100	QPSK	135	138	18.29				
100	QPSK	270	0	18.41			20.0	1.0
100	16QAM	1	1	18.29			20.0	1.0
100	64QAM	1	1	18.75			18.5	2.5
100	256QAM	1	1	15.16			16.5	4.5
Channel								
Frequency (MHz)								
50	QPSK	1	1	64988	65000	65032	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	3740.01	3740	3749.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	19.33	19.32	19.31	21.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	64834	65000	65066	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	3720.01	3740	3749.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
40	QPSK	1	1	19.15	19.41	19.14	21.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	64734	65000	65466	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	19.32	19.25	19.29	21.0	0.0



Part270_n77_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3790									
100	Pl2 BPSK	1	1	19.39	19.41	19.43			
100	Pl2 BPSK	1	137	19.49	19.75	19.58	21.0	0.0	
100	Pl2 BPSK	1	211	19.31	19.54	19.49			
100	Pl2 BPSK	135	0	18.54	18.54	18.57	20.5	0.5	
100	Pl2 BPSK	135	69	19.35	19.60	19.48	21.0	0.0	
100	Pl2 BPSK	135	138	18.56	18.56	18.52	20.5	0.5	
100	Pl2 BPSK	270	0	18.53	18.53	18.57			
100	QPSK	1	1	20.15	20.23	20.07			
100	QPSK	1	137	20.13	20.22	20.05	21.0	0.0	
100	QPSK	1	271	20.03	19.95	19.77			
100	QPSK	135	0	18.78	18.84	18.54			
100	QPSK	135	69	19.76	20.16	19.95	21.0	0.0	
100	QPSK	135	138	18.83	18.62	18.57			
100	QPSK	270	0	18.86	18.90	18.56	20.0	1.0	
100	16QAM	1	1	18.96	18.76	18.65	20.0	1.0	
100	16QAM	1	1	17.41	17.26	17.27	18.5	2.5	
100	256QAM	1	1	15.45	15.36	15.35	16.5	4.5	
Channel									
Frequency (MHz)									
649668									
90	QPSK	1	1	19.91	20.03	19.91	21.0	0.0	
Channel									
Frequency (MHz)									
649334									
80	QPSK	1	1	19.07	20.04	19.86	21.0	0.0	
Channel									
Frequency (MHz)									
650000									
70	QPSK	1	1	19.91	20.09	19.94	21.0	0.0	
Channel									
Frequency (MHz)									
649668									
60	QPSK	1	1	19.86	19.95	19.82	21.0	0.0	
Channel									
Frequency (MHz)									
649334									
50	QPSK	1	1	19.59	20.08	19.90	21.0	0.0	
Channel									
Frequency (MHz)									
649000									
40	QPSK	1	1	19.59	20.08	19.90	21.0	0.0	
Channel									
Frequency (MHz)									
649334									
30	QPSK	1	1	19.80	20.07	20.00	21.0	0.0	
Channel									
Frequency (MHz)									
647334									
20	QPSK	1	1	19.92	19.96	19.93	21.0	0.0	

Part270_n78_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
3790									
100	Pl2 BPSK	1	1						
100	Pl2 BPSK	1	137				21.0	0.0	
100	Pl2 BPSK	1	211						
100	Pl2 BPSK	135	0				20.5	0.5	
100	Pl2 BPSK	135	69				21.0	0.0	
100	Pl2 BPSK	135	138				20.5	0.5	
100	Pl2 BPSK	270	0						
100	QPSK	1	1						
100	QPSK	1	137				21.0	0.0	
100	QPSK	1	271						
100	QPSK	135	0						
100	QPSK	135	69				21.0	0.0	
100	QPSK	135	138						
100	QPSK	270	0				20.0	1.0	
100	16QAM	1	1				20.0	1.0	
100	16QAM	1	1				18.97	2.5	
100	256QAM	1	1				16.5	4.5	
Channel									
Frequency (MHz)									
649668									
90	QPSK	1	1	19.96	19.99	19.88	21.0	0.0	
Channel									
Frequency (MHz)									
649334									
80	QPSK	1	1	19.08	19.96	20.01	21.0	0.0	
Channel									
Frequency (MHz)									
649000									
70	QPSK	1	1	20.11	20.07	20.05	21.0	0.0	
Channel									
Frequency (MHz)									
649668									
60	QPSK	1	1	20.12	20.18	19.99	21.0	0.0	
Channel									
Frequency (MHz)									
649334									
50	QPSK	1	1	19.54	20.17	19.98	21.0	0.0	
Channel									
Frequency (MHz)									
649000									
40	QPSK	1	1	19.89	19.96	19.97	21.0	0.0	
Channel									
Frequency (MHz)									
647334									
30	QPSK	1	1	20.16	20.18	20.17	21.0	0.0	
Channel									
Frequency (MHz)									
649000									
20	QPSK	1	1	20.16	20.09	19.96	21.0	0.0	





Reduced Power for DSI 6

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.63	32.31	32.50	33.50	23.63	23.31	23.50	24.50
GPRS 1 Tx slot	32.61	32.29	32.48	33.50	23.61	23.29	23.48	24.50
GPRS 2 Tx slots	30.04	29.55	30.00	31.00	24.04	23.55	24.00	25.00
GPRS 3 Tx slots	28.21	28.15	28.18	29.00	23.95	23.89	23.92	24.74
GPRS 4 Tx slots	26.84	26.62	26.82	27.50	23.84	23.62	23.82	24.50
EDGE 1 Tx slot	26.38	26.23	26.38	27.00	17.38	17.23	17.38	18.00
EDGE 2 Tx slots	25.48	25.23	25.52	26.50	19.48	19.23	19.52	20.50
EDGE 3 Tx slots	23.25	23.18	23.31	24.00	18.99	18.92	19.05	19.74
EDGE 4 Tx slots	21.24	21.25	21.31	22.00	18.24	18.25	18.31	19.00

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	27.92	28.13	28.34	28.50	18.92	19.13	19.34	19.50
GPRS 1 Tx slot	27.90	28.11	28.32	28.50	18.90	19.11	19.32	19.50
GPRS 2 Tx slots	26.08	25.72	26.06	26.50	20.08	19.72	20.06	20.50
GPRS 3 Tx slots	24.00	23.81	23.95	25.00	19.74	19.55	19.69	20.74
GPRS 4 Tx slots	22.38	22.59	22.62	23.00	19.38	19.59	19.62	20.00
EDGE 1 Tx slot	24.93	24.95	24.94	25.50	15.93	15.95	15.94	16.50
EDGE 2 Tx slots	21.73	22.13	22.06	22.50	15.73	16.13	16.06	16.50
EDGE 3 Tx slots	20.42	20.72	20.88	21.50	16.16	16.46	16.62	17.24
EDGE 4 Tx slots	18.68	18.81	18.94	19.50	15.68	15.81	15.94	16.50

Band	TX Channel	WCDMA_II_Ant 0			Tune-up Limit (dBm)	WCDMA_IV_Ant 0			Tune-up Limit (dBm)	WCDMA_V_Ant 0			Tune-up Limit (dBm)
		Rx Channel	9262	9400		9538	1312	1413		1513	4132	4182	
	Frequency (MHz)	9662	9800	9938		1537	1638	1738		4357	4407	4458	
		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	20.90	20.94	20.85	21.50	19.93	19.96	19.88	20.50	23.04	23.05	23.03	24.00
3GPP Rel 99	RMC 12.2Kbps	20.92	20.96	20.88	21.50	19.95	19.99	19.90	20.50	23.05	23.06	23.04	24.00
3GPP Rel 6	HSDPA Subtest-1	19.86	19.84	19.91	20.50	18.64	18.98	18.89	19.50	22.07	22.05	22.07	23.00
3GPP Rel 6	HSDPA Subtest-2	19.82	19.97	19.75	20.50	18.69	18.91	18.94	19.50	22.09	22.05	22.10	23.00
3GPP Rel 6	HSDPA Subtest-3	19.40	19.47	19.51	20.00	18.21	18.44	18.33	19.00	21.60	21.59	21.61	22.50
3GPP Rel 6	HSDPA Subtest-4	19.32	19.43	19.45	20.00	18.15	17.97	18.48	19.00	21.61	21.57	21.60	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	19.80	19.77	19.94	20.50	18.65	18.81	18.88	19.50	22.05	21.87	21.93	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	19.70	19.81	19.73	20.50	18.72	18.73	18.89	19.50	21.99	21.91	21.92	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	19.34	19.25	19.44	20.00	18.15	18.33	18.38	19.00	21.49	21.56	21.59	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	19.29	19.36	19.40	20.00	18.15	17.89	18.37	19.00	21.44	21.44	21.55	22.50
3GPP Rel 6	HSUPA Subtest-1	19.96	19.89	19.84	20.50	18.78	19.04	19.02	19.50	22.10	22.04	22.09	23.00
3GPP Rel 6	HSUPA Subtest-2	17.88	17.88	17.94	18.50	16.65	16.87	16.93	17.50	20.07	20.02	20.09	21.00
3GPP Rel 6	HSUPA Subtest-3	18.84	18.96	18.97	19.50	17.69	17.89	18.05	18.50	21.11	21.06	21.09	22.00
3GPP Rel 6	HSUPA Subtest-4	17.98	18.00	18.02	18.50	16.63	16.97	16.95	17.50	20.07	20.08	20.08	21.00
3GPP Rel 6	HSUPA Subtest-5	19.88	20.00	19.93	20.50	18.65	18.89	18.93	19.50	22.10	22.10	22.00	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.02	17.95	18.03	18.50	16.92	16.90	16.99	17.50	20.43	20.26	20.25	21.00



Band 2\_Ant 0

Table for Band 2\_Ant 0 showing BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power High, Power High / Freq, Time-up (ms), and MPR (dB) for various channels and antenna configurations.

Band 4\_Ant 0

Table for Band 4\_Ant 0 showing BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power High, Power High / Freq, Time-up (ms), and MPR (dB) for various channels and antenna configurations.

Band 12\_Ant 0

Table for Band 12\_Ant 0 showing BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power High, Power High / Freq, Time-up (ms), and MPR (dB) for various channels and antenna configurations.



Band 17_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mide Ch./Freq.	Power Hgh Ch./Freq.	TotPower (dBm)	MRR (dB)		
Channel										
Frequency (MHz)				704	710	714				
23760	23760	23800								
10	QPSK	1	0	22.50	22.83	23.01		0		
10	QPSK	1	25	22.91	23.22	23.37	24	0		
10	QPSK	1	49	22.96	23.03	23.09		0		
10	QPSK	25	5	22.50	22.67	22.76		0		
10	QPSK	25	12	22.12	22.12	22.20	23	1		
10	QPSK	25	25	22.17	22.24	22.12		0		
10	QPSK	50	0	22.17	22.23	22.20		0		
10	HQAM	1	0	22.35	22.59	22.70		0		
10	HQAM	1	25	22.43	22.55	22.53	23	1		
10	HQAM	1	49	22.43	22.29	22.70		0		
10	HQAM	25	0	21.38	21.42	21.37		0		
10	HQAM	25	12	21.52	21.22	21.28	22	2		
10	HQAM	25	25	21.10	21.24	21.14		0		
10	HQAM	50	0	21.28	21.20	21.23		0		
10	HQAM	1	0	21.52	21.38	21.36		0		
10	HQAM	1	25	21.74	21.54	21.33	22	2		
10	HQAM	1	49	21.47	21.51	21.40		0		
10	HQAM	25	0	20.27	20.22	20.38		0		
10	HQAM	25	12	20.44	20.28	20.35		0		
10	HQAM	25	25	20.35	20.18	20.27	21	3		
10	HQAM	50	0	20.38	20.32	20.28		0		
10	SSBQAM	1	0	17.68	17.71	17.80		0		
10	SSBQAM	1	25	17.88	17.77	17.85	19	5		
10	SSBQAM	1	49	17.88	17.70	17.79		0		
10	SSBQAM	25	0	17.70	17.71	17.86		0		
10	SSBQAM	25	12	17.88	17.67	17.94	19	5		
10	SSBQAM	25	25	17.73	17.65	17.74		0		
10	SSBQAM	50	0	17.84	17.63	17.72		0		
Channel										
Frequency (MHz)				706.5	710	713.5	TotPower (dBm)	MRR (dB)		
5	QPSK	1	0	22.87	22.96	23.00		0		
5	QPSK	1	12	22.88	22.77	22.90	24	0		
5	QPSK	1	24	22.84	22.89	23.01		0		
5	QPSK	12	0	22.20	22.28	22.18		0		
5	QPSK	12	7	22.28	22.27	22.11		0		
5	QPSK	12	13	22.39	22.20	22.27	23	1		
5	QPSK	25	0	22.39	22.29	22.29		0		
5	HQAM	1	0	22.41	22.46	22.56		0		
5	HQAM	1	12	22.45	22.42	22.43	23	1		
5	HQAM	1	24	22.47	22.22	22.52		0		
5	HQAM	12	0	21.37	21.14	21.44		0		
5	HQAM	12	7	21.38	21.28	21.25	22	2		
5	HQAM	12	13	21.27	21.09	21.06		0		
5	HQAM	25	0	21.13	21.10	21.19		0		
5	HQAM	1	0	21.38	21.28	21.35		0		
5	HQAM	1	12	21.74	21.57	21.30	22	2		
5	HQAM	1	24	21.50	21.40	21.42		0		
5	HQAM	12	0	20.35	20.20	20.44		0		
5	HQAM	12	7	20.35	20.25	20.44	21	3		
5	HQAM	12	13	20.14	20.15	20.22		0		
5	HQAM	25	0	20.38	20.32	20.33		0		
5	SSBQAM	1	0	17.70	17.65	17.68		0		
5	SSBQAM	1	12	17.85	17.63	17.80	19	5		
5	SSBQAM	1	24	17.77	17.79	17.87		0		
5	SSBQAM	12	0	17.60	17.62	17.72		0		
5	SSBQAM	12	7	17.84	17.59	17.86	19	5		
5	SSBQAM	12	13	17.65	17.63	17.71		0		
5	SSBQAM	25	0	17.57	17.62	17.72		0		
Channel										
Frequency (MHz)				812.1	813.5	814.5	TotPower (dBm)	MRR (dB)		
5	QPSK	1	0	22.86	22.83	22.85		0		
5	QPSK	1	24	22.47	22.69	22.79	24	0		
5	QPSK	1	49	22.54	22.68	22.67		0		
5	QPSK	12	0	21.83	21.69	21.75		0		
5	QPSK	12	13	21.77	21.63	21.92	23	1		
5	QPSK	25	0	21.78	21.61	21.80		0		
5	HQAM	1	0	21.98	21.84	21.85		0		
5	HQAM	1	12	22.22	21.83	21.88	23	1		
5	HQAM	1	24	22.10	22.28	21.78		0		
5	HQAM	12	0	20.32	20.94	20.91		0		
5	HQAM	12	7	20.80	20.81	20.93	22	2		
5	HQAM	12	13	20.96	20.67	20.67		0		
5	HQAM	25	0	20.99	20.91	20.90		0		
5	HQAM	1	0	20.99	20.94	20.99		0		
5	HQAM	1	12	20.87	21.01	21.00	22	2		
5	HQAM	1	24	20.97	20.99	20.95		0		
5	HQAM	12	0	19.87	19.88	20.06		0		
5	HQAM	12	7	19.74	19.89	20.04	21	3		
5	HQAM	12	13	20.15	20.03	20.07		0		
5	HQAM	25	0	19.99	19.91	19.84		0		
5	SSBQAM	1	0	17.63	17.60	17.65		0		
5	SSBQAM	1	12	17.76	17.63	17.64	19	5		
5	SSBQAM	1	24	17.66	17.75	17.65		0		
5	SSBQAM	12	0	17.62	17.62	17.73		0		
5	SSBQAM	12	7	17.82	17.67	17.64	19	5		
5	SSBQAM	12	13	17.63	17.60	17.66		0		
5	SSBQAM	25	0	17.66	17.44	17.56		0		
Channel										
Frequency (MHz)				815.5	831.5	847.5	TotPower (dBm)	MRR (dB)		
3	QPSK	1	0	22.50	22.62	22.73		0		
3	QPSK	1	8	22.56	22.74	22.79	24	0		
3	QPSK	8	0	21.68	21.68	21.75		0		
3	QPSK	8	0	21.59	21.83	21.88		0		
3	QPSK	8	4	21.79	21.78	21.89	23	1		
3	QPSK	8	7	21.63	21.88	21.78		0		
3	QPSK	16	0	21.78	21.79	21.88		0		
3	HQAM	1	0	21.83	22.21	21.98		0		
3	HQAM	1	8	22.12	21.98	21.91	23	1		
3	HQAM	1	14	22.22	22.19	21.78		0		
3	HQAM	8	0	20.61	20.86	20.94		0		
3	HQAM	8	4	20.62	20.64	20.79	22	2		
3	HQAM	8	7	20.94	20.97	20.85		0		
3	HQAM	16	0	20.74	20.76	20.94		0		
3	HQAM	1	0	20.99	20.94	21.00		0		
3	HQAM	1	8	20.97	21.00	21.01	22	2		
3	HQAM	1	14	20.99	20.89	20.86		0		
3	HQAM	8	0	19.86	19.60	20.11		0		
3	HQAM	8	4	19.83	19.94	19.94	21	3		
3	HQAM	8	7	20.00	19.89	20.06		0		
3	HQAM	16	0	19.86	19.81	19.88		0		
3	SSBQAM	1	0	17.61	17.64	17.79		0		
3	SSBQAM	1	8	17.58	17.71	17.71	19	5		
3	SSBQAM	1	14	17.75	17.61	17.67		0		
3	SSBQAM	8	0	17.59	17.53	17.69		0		
3	SSBQAM	8	4	17.72	17.43	17.57	19	5		
3	SSBQAM	8	7	17.62	17.66	17.70		0		
3	SSBQAM	16	0	17.60	17.68	17.67		0		
Channel										
Frequency (MHz)				869.7	2086.5	2103.3	TotPower (dBm)	MRR (dB)		
1.4	QPSK	1	0	22.84	22.72	22.88		0		
1.4	QPSK	1	3	22.94	22.73	22.85	24	0		
1.4	QPSK	1	5	22.63	22.63	22.88		0		
1.4	QPSK	3	0	22.63	22.67	22.70		0		
1.4	QPSK	3	1	22.62	22.29	22.64	23	1		
1.4	QPSK	3	3	22.57	22.68	22.73		0		
1.4	HQAM	1	0	21.67	21.74	21.86	23	1		
1.4	HQAM	1	3	22.28	21.87	21.97		0		
1.4	HQAM	1	5	22.24	22.15	21.86	23	1		
1.4	HQAM	1	0	21.43	21.33	21.60		0		
1.4	HQAM	3	1	21.74	21.64	21.71		0		
1.4	HQAM	3	3	21.62	21.68	21.60		0		
1.4	HQAM	1	0	20.75	20.77	20.90	22	2		
1.4	HQAM	1	0	20.76	21.02	20.92		0		
1.4	HQAM	1	3	20.87	21.01	20.95		0		
1.4	HQAM	1	0	20.99	21.08	20.79	22	2		
1.4	HQAM	3	0	20.91	20.91	20.98		0		
1.4	HQAM	3	1	20.60	20.81	20.77	21	3		
1.4	HQAM	3	3	20.89	20.76	20.87		0		
1.4	HQAM	6	0	19.94	19.93	19.97		0		
1.4	SSBQAM	1	0	17.81	17.62	17.67		0		
1.4	SSBQAM	1	0	17.88	17.65	17.69		0		
1.4	SSBQAM	3	0	17.58	17.45	17.74	19	5		
1.4	SSBQAM	3	1	17.58	17.42	17.79		0		
1.4	SSBQAM	3	3	17.55	17.45	17.67		0		
1.4	SSBQAM	6	0	17.59	17.48	17.50	19	5		



Band 38\_Ant 1

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				37850	38000	38150		
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	19.10	19.19	19.02	20	0
20	QPSK	1	49	18.74	18.83	18.86		
20	QPSK	1	99	18.75	18.82	18.84		
20	QPSK	50	0	19.08	19.12	19.04		
20	QPSK	50	24	18.82	18.70	18.83		
20	QPSK	50	50	18.85	18.72	18.60		
20	QPSK	100	0	18.72	18.75	18.74		
20	16QAM	1	0	19.10	19.09	19.04		
20	16QAM	1	49	18.69	18.74	18.85		
20	16QAM	1	99	18.69	18.72	18.84		
20	16QAM	50	0	18.96	18.86	18.91		
20	16QAM	50	24	18.66	18.67	18.69		
20	16QAM	50	50	18.74	18.70	18.48		
20	16QAM	100	0	18.74	18.79	18.61		
20	64QAM	1	0	19.08	19.08	18.91		
20	64QAM	1	49	18.67	18.73	18.76		
20	64QAM	1	99	18.72	18.61	18.54		
20	64QAM	50	0	18.92	18.89	18.90		
20	64QAM	50	24	18.68	18.55	18.83		
20	64QAM	50	50	18.79	18.55	18.46		
20	64QAM	100	0	18.75	18.63	18.71		
20	256QAM	1	0	17.79	17.81	18.06		
20	256QAM	1	49	17.74	17.87	17.84		
20	256QAM	1	99	17.71	17.86	17.85		
20	256QAM	50	0	17.79	17.93	18.06		
20	256QAM	50	24	17.84	18.08	17.89		
20	256QAM	50	50	17.91	17.84	17.74		
20	256QAM	100	0	17.84	18.02	17.94		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	18.98	19.09	18.94	20	0
15	QPSK	1	37	18.59	18.84	18.84		
15	QPSK	1	74	18.56	18.57	18.59		
15	QPSK	36	0	18.91	19.11	18.93		
15	QPSK	36	20	18.69	18.58	18.67		
15	QPSK	36	39	18.70	18.72	18.62		
15	QPSK	75	0	18.56	18.77	18.69		
15	16QAM	1	0	18.92	18.91	18.96		
15	16QAM	1	37	18.55	18.65	18.79		
15	16QAM	1	74	18.65	18.41	18.41		
15	16QAM	36	0	18.92	18.76	18.73		
15	16QAM	36	20	18.49	18.51	18.57		
15	16QAM	36	39	18.67	18.61	18.34		
15	16QAM	75	0	18.71	18.79	18.48		
15	64QAM	1	0	18.98	18.97	18.86		
15	64QAM	1	37	18.56	18.55	18.66		
15	64QAM	1	74	18.57	18.60	18.54		
15	64QAM	36	0	18.92	18.86	18.90		
15	64QAM	36	20	18.65	18.39	18.66		
15	64QAM	36	39	18.69	18.38	18.29		
15	64QAM	75	0	18.67	18.49	18.68		
15	256QAM	1	0	17.74	17.65	18.06		
15	256QAM	1	37	17.74	17.79	17.73		
15	256QAM	1	74	17.83	17.89	17.94		
15	256QAM	36	0	17.69	17.85	18.05		
15	256QAM	36	20	17.81	17.87	17.88		
15	256QAM	36	39	17.78	17.58	17.62		
15	256QAM	75	0	17.68	17.96	17.90		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	18.95	19.10	18.87	20	0
10	QPSK	1	25	18.69	18.83	18.77		
10	QPSK	1	49	18.60	18.56	18.66		
10	QPSK	25	0	18.97	19.26	18.93		
10	QPSK	25	12	18.66	18.54	18.81		
10	QPSK	25	25	18.80	18.72	18.53		
10	QPSK	50	0	18.64	18.57	18.76		
10	16QAM	1	0	19.05	19.06	18.93		
10	16QAM	1	25	18.57	18.76	18.87		
10	16QAM	1	49	18.56	18.36	18.36		
10	16QAM	25	0	18.97	18.73	18.73		
10	16QAM	25	12	18.66	18.55	18.59		
10	16QAM	25	25	18.69	18.66	18.50		
10	16QAM	50	0	18.68	18.72	18.52		
10	64QAM	1	0	18.91	19.01	18.87		
10	64QAM	1	25	18.63	18.56	18.64		
10	64QAM	1	49	18.67	18.48	18.43		
10	64QAM	25	0	18.93	18.86	18.92		
10	64QAM	25	12	18.65	18.50	18.65		
10	64QAM	25	25	18.80	18.38	18.48		
10	64QAM	50	0	18.75	18.82	18.54		
10	256QAM	1	0	17.69	17.82	17.90		
10	256QAM	1	25	17.56	17.73	17.78		
10	256QAM	1	49	17.53	17.85	17.72		
10	256QAM	25	0	17.62	17.78	17.85		
10	256QAM	25	12	17.86	18.03	17.80		
10	256QAM	25	25	17.75	17.48	17.59		
10	256QAM	50	0	17.69	17.96	17.78		
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	18.96	19.11	18.94	20	0
5	QPSK	1	12	18.71	18.77	18.72		
5	QPSK	1	24	18.76	18.64	18.46		
5	QPSK	12	0	18.98	19.00	19.04		
5	QPSK	12	7	18.78	18.66	18.73		
5	QPSK	12	13	18.72	18.54	18.56		
5	QPSK	25	0	18.58	18.57	18.75		
5	16QAM	1	0	19.09	18.97	19.02		
5	16QAM	1	12	18.52	18.64	18.82		
5	16QAM	1	24	18.58	18.48	18.41		
5	16QAM	12	0	18.96	18.72	18.84		
5	16QAM	12	7	18.68	18.51	18.69		
5	16QAM	12	13	18.65	18.57	18.40		
5	16QAM	25	0	18.76	18.69	18.57		
5	64QAM	1	0	18.99	18.92	18.89		
5	64QAM	1	12	18.54	18.56	18.58		
5	64QAM	1	24	18.72	18.62	18.39		
5	64QAM	12	0	18.84	18.80	18.98		
5	64QAM	12	7	18.67	18.42	18.72		
5	64QAM	12	13	18.76	18.44	18.37		
5	64QAM	25	0	18.64	18.60	18.66		
5	256QAM	1	0	17.67	17.78	17.97		
5	256QAM	1	12	17.69	17.74	17.83		
5	256QAM	1	24	17.57	17.84	17.83		
5	256QAM	12	0	17.79	17.93	17.92		
5	256QAM	12	7	17.76	18.06	17.94		
5	256QAM	12	13	17.87	17.59	17.65		
5	256QAM	25	0	17.79	17.90	17.82		

Band 41\_Ant 1

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				39750	40185	40620		
Frequency (MHz)				2506	2549.5	2593		
20	QPSK	1	0	19.15	19.17	19.23	20	0
20	QPSK	1	49	18.86	18.97	18.91		
20	QPSK	1	99	18.96	19.10	19.02		
20	QPSK	50	0	19.18	19.15	19.23		
20	QPSK	50	24	19.07	19.06	18.99		
20	QPSK	50	50	19.08	19.10	19.13		
20	QPSK	100	0	19.08	19.13	19.14		
20	16QAM	1	0	18.95	18.78	18.79		
20	16QAM	1	49	18.65	18.78	18.75		
20	16QAM	1	99	18.96	19.73	18.94		
20	16QAM	50	0	19.11	19.25	19.14		
20	16QAM	50	24	19.05	19.22	19.05		
20	16QAM	50	50	19.03	19.20	19.16		
20	16QAM	100	0	19.19	19.02	19.02		
20	64QAM	1	0	18.73	18.50	18.72		
20	64QAM	1	49	18.59	18.44	18.40		
20	64QAM	1	99	18.43	18.32	18.51		
20	64QAM	50	0	19.04	19.11	19.26		
20	64QAM	50	24	19.21	19.22	19.11		
20	64QAM	50	50	19.15	19.19	19.08		
20	64QAM	100	0	18.98	19.06	19.16		
20	256QAM	1	0	17.72	17.74	17.80		
20	256QAM	1	49	17.53	17.53	17.68		
20	256QAM	1	99	17.65	17.74	17.69		
20	256QAM	50	0	17.84	17.87			



Band 41 (HPUE)_Ant 1											
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)				2506	2549.5	2593	2636.5	2680			
20	QPSK	1	0	20.63	20.78	20.73	20.76	20.82	21.5	0	
20	QPSK	1	49	20.60	20.60	20.54	20.58	20.72	21.5	0	
20	QPSK	1	99	20.55	20.54	20.42	20.48	20.62	21.5	0	
20	QPSK	50	0	20.84	20.59	20.61	20.57	20.40	21.5	0	
20	QPSK	50	24	20.59	20.45	20.61	20.54	20.64	21.5	0	
20	QPSK	50	50	20.43	20.46	20.43	20.44	20.62	21.5	0	
20	QPSK	100	0	20.59	20.56	20.57	20.45	20.61	21.5	0	
20	16QAM	1	0	20.61	20.65	20.51	20.47	20.66	21.5	0	
20	16QAM	1	49	20.71	20.72	20.55	20.52	20.71	21.5	0	
20	16QAM	1	99	20.46	20.32	20.43	20.42	20.45	21.5	0	
20	16QAM	50	0	20.58	20.60	20.48	20.55	20.50	21.5	0	
20	16QAM	50	24	20.40	20.66	20.45	20.51	20.64	21.5	0	
20	16QAM	50	50	20.39	20.45	20.32	20.35	20.47	21.5	0	
20	16QAM	100	0	20.43	20.54	20.40	20.39	20.57	21.5	0	
20	64QAM	1	0	20.50	20.50	20.47	20.34	20.46	21.5	0	
20	64QAM	1	49	20.34	20.40	20.46	20.40	20.45	21.5	0	
20	64QAM	1	99	20.32	20.27	20.38	20.30	20.43	21.5	0	
20	64QAM	50	0	20.59	20.52	20.71	20.51	20.72	21.5	0	
20	64QAM	50	24	20.71	20.65	20.59	20.58	20.73	21.5	0	
20	64QAM	50	50	20.63	20.69	20.57	20.57	20.65	21.5	0	
20	64QAM	100	0	20.46	20.65	20.42	20.44	20.62	21.5	0	
20	256QAM	1	0	20.57	20.69	20.58	20.58	20.65	21.5	0	
20	256QAM	1	49	20.45	20.59	20.51	20.43	20.58	21.5	0	
20	256QAM	1	99	20.30	20.32	20.46	20.50	20.47	21.5	0	
20	256QAM	50	0	20.53	20.52	20.71	20.51	20.67	21.5	0	
20	256QAM	50	24	20.51	20.62	20.62	20.43	20.58	21.5	0	
20	256QAM	50	50	20.42	20.53	20.43	20.44	20.56	21.5	0	
20	256QAM	100	0	20.56	20.70	20.61	20.58	20.66	21.5	0	
Channel				39725	40173	40620	41068	41515			
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	20.58	20.62	20.69	20.70	20.81	21.5	0	
15	QPSK	1	37	20.54	20.54	20.44	20.45	20.63	21.5	0	
15	QPSK	1	74	20.44	20.39	20.41	20.39	20.57	21.5	0	
15	QPSK	36	0	20.58	20.48	20.67	20.60	20.62	21.5	0	
15	QPSK	36	20	20.47	20.34	20.51	20.36	20.48	21.5	0	
15	QPSK	36	39	20.40	20.36	20.42	20.33	20.53	21.5	0	
15	QPSK	75	0	20.50	20.51	20.56	20.30	20.51	21.5	0	
15	16QAM	1	0	20.51	20.62	20.37	20.37	20.54	21.5	0	
15	16QAM	1	37	20.59	20.73	20.54	20.34	20.57	21.5	0	
15	16QAM	1	74	20.45	20.27	20.27	20.39	20.37	21.5	0	
15	16QAM	36	0	20.57	20.46	20.44	20.49	20.44	21.5	0	
15	16QAM	36	20	20.37	20.64	20.32	20.34	20.52	21.5	0	
15	16QAM	36	39	20.36	20.30	20.25	20.18	20.33	21.5	0	
15	16QAM	75	0	20.38	20.41	20.39	20.40	20.57	21.5	0	
15	64QAM	1	0	20.40	20.46	20.46	20.20	20.35	21.5	0	
15	64QAM	1	37	20.28	20.42	20.45	20.24	20.31	21.5	0	
15	64QAM	1	74	20.34	20.26	20.29	20.21	20.30	21.5	0	
15	64QAM	36	0	20.59	20.56	20.49	20.44	20.74	21.5	0	
15	64QAM	36	20	20.64	20.63	20.45	20.59	20.71	21.5	0	
15	64QAM	36	39	20.52	20.62	20.59	20.39	20.55	21.5	0	
15	64QAM	75	0	20.41	20.57	20.25	20.34	20.59	21.5	0	
15	256QAM	1	0	20.56	20.52	20.50	20.54	20.51	21.5	0	
15	256QAM	1	37	20.38	20.41	20.51	20.38	20.58	21.5	0	
15	256QAM	1	74	20.14	20.31	20.31	20.51	20.42	21.5	0	
15	256QAM	36	0	20.40	20.47	20.61	20.40	20.66	21.5	0	
15	256QAM	36	20	20.47	20.63	20.53	20.36	20.60	21.5	0	
15	256QAM	36	39	20.39	20.44	20.29	20.26	20.42	21.5	0	
15	256QAM	75	0	20.46	20.71	20.49	20.55	20.60	21.5	0	
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	20.65	20.65	20.68	20.68	20.80	21.5	0	
10	QPSK	1	25	20.57	20.52	20.55	20.45	20.70	21.5	0	
10	QPSK	1	49	20.53	20.48	20.37	20.50	20.56	21.5	0	
10	QPSK	25	0	20.63	20.58	20.65	20.56	20.71	21.5	0	
10	QPSK	25	12	20.60	20.31	20.44	20.38	20.53	21.5	0	
10	QPSK	25	25	20.35	20.28	20.40	20.42	20.61	21.5	0	
10	QPSK	50	0	20.60	20.44	20.51	20.35	20.43	21.5	0	
10	16QAM	1	0	20.52	20.50	20.35	20.46	20.64	21.5	0	
10	16QAM	1	25	20.55	20.66	20.41	20.40	20.61	21.5	0	
10	16QAM	1	49	20.39	20.14	20.28	20.27	20.33	21.5	0	
10	16QAM	25	0	20.46	20.54	20.46	20.36	20.57	21.5	0	
10	16QAM	25	12	20.33	20.64	20.38	20.51	20.52	21.5	0	
10	16QAM	25	25	20.34	20.35	20.16	20.22	20.34	21.5	0	
10	16QAM	50	0	20.26	20.55	20.30	20.33	20.48	21.5	0	
10	64QAM	1	0	20.40	20.52	20.42	20.24	20.34	21.5	0	
10	64QAM	1	25	20.18	20.29	20.46	20.42	20.43	21.5	0	
10	64QAM	1	49	20.27	20.12	20.26	20.20	20.35	21.5	0	
10	64QAM	25	0	20.47	20.52	20.48	20.61	20.61	21.5	0	
10	64QAM	25	12	20.51	20.58	20.43	20.42	20.71	21.5	0	
10	64QAM	25	25	20.48	20.57	20.47	20.41	20.61	21.5	0	
10	64QAM	50	0	20.37	20.63	20.29	20.44	20.54	21.5	0	
10	256QAM	1	0	20.42	20.71	20.69	20.51	20.52	21.5	0	
10	256QAM	1	25	20.46	20.51	20.38	20.29	20.51	21.5	0	
10	256QAM	1	49	20.20	20.33	20.42	20.46	20.38	21.5	0	
10	256QAM	25	0	20.46	20.47	20.56	20.44	20.58	21.5	0	
10	256QAM	25	12	20.42	20.46	20.54	20.31	20.52	21.5	0	
10	256QAM	25	25	20.25	20.53	20.30	20.33	20.53	21.5	0	
10	256QAM	50	0	20.44	20.52	20.57	20.52	20.61	21.5	0	
Channel				39675	40148	40620	41093	41565			
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5			
5	QPSK	1	0	20.62	20.69	20.55	20.70	20.67	21.5	0	
5	QPSK	1	12	20.61	20.49	20.39	20.45	20.57	21.5	0	
5	QPSK	1	24	20.55	20.39	20.32	20.49	20.61	21.5	0	
5	QPSK	12	0	20.60	20.52	20.57	20.54	20.65	21.5	0	
5	QPSK	12	7	20.48	20.43	20.57	20.56	20.66	21.5	0	
5	QPSK	12	13	20.30	20.35	20.42	20.30	20.57	21.5	0	
5	QPSK	25	0	20.58	20.54	20.49	20.45	20.53	21.5	0	
5	16QAM	1	0	20.43	20.67	20.45	20.47	20.52	21.5	0	
5	16QAM	1	12	20.63	20.66	20.37	20.46	20.65	21.5	0	
5	16QAM	1	24	20.42	20.33	20.32	20.30	20.41	21.5	0	
5	16QAM	12	0	20.53	20.51	20.38	20.41	20.53	21.5	0	
5	16QAM	12	7	20.51	20.61	20.39	20.33	20.50	21.5	0	
5	16QAM	12	13	20.34	20.29	20.24	20.35	20.46	21.5	0	
5	16QAM	25	0	20.31	20.39	20.36	20.26	20.49	21.5	0	
5	64QAM	1	0	20.44	20.50	20.38	20.17	20.28	21.5	0	
5	64QAM	1	12	20.30	20.35	20.41	20.36	20.31	21.5	0	
5	64QAM	1	24	20.18	20.11	20.31	20.15	20.44	21.5	0	
5	64QAM	12	0	20.58	20.48	20.54	20.50	20.73	21.5	0	
5	64QAM	12	7	20.55	20.59	20.45					



Part270_n77_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 650000	High Ch. / Freq. 650000			
Channel				3760	3840	3920			
Frequency (MHz)				19.02	19.18	19.33			
100	PI/2 BPSK	1	1	19.02	19.18	19.33	20.5	0.0	
100	PI/2 BPSK	1	137	19.07	19.22	19.33			
100	PI/2 BPSK	1	271	19.26	19.28	19.17			
100	PI/2 BPSK	135	0	19.13	19.16	19.09	20.5	0.0	
100	PI/2 BPSK	135	69	19.00	19.13	19.04	20.5	0.0	
100	PI/2 BPSK	135	138	19.09	19.17	18.14	20.5	0.0	
100	PI/2 BPSK	270	0	19.10	19.15	19.00			
100	QPSK	1	1	19.33	19.36	19.26			
100	QPSK	1	137	19.11	19.20	19.20	20.5	0.0	
100	QPSK	1	271	19.08	19.30	19.24			
100	QPSK	135	0	19.02	19.16	19.05			
100	QPSK	135	69	19.10	19.34	19.23	20.5	0.0	
100	QPSK	135	138	18.87	19.07	18.86			
100	QPSK	270	0	19.13	19.31	19.27	20.5	0.0	
100	16QAM	1	1	19.18	19.27	19.20	20.5	0.0	
100	64QAM	1	1	19.23	19.31	19.23	20.5	0.0	
100	256QAM	1	1	18.03	18.21	18.21	19.5	1.0	
Channel				649668	656000	662332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3745.02	3840	3934.98			
90	QPSK	1	1	19.11	19.23	19.09	20.5	0.0	
Channel				648334	656000	662666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3740.01	3840	3939.99			
80	QPSK	1	1	19.11	19.31	19.07	20.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3725	3840	3945			
70	QPSK	1	1	19.03	19.17	19.15	20.5	0.0	
Channel				648668	656000	663332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3730.02	3840	3949.98			
60	QPSK	1	1	19.07	19.27	19.20	20.5	0.0	
Channel				648334	656000	663666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3725.01	3840	3954.99			
50	QPSK	1	1	19.06	19.27	19.07	20.5	0.0	
Channel				649000	656000	664000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	18.94	19.26	19.22	20.5	0.0	
Channel				647668	656000	664332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3715.02	3840	3964.98			
30	QPSK	1	1	19.05	19.16	19.14	20.5	0.0	
Channel				647334	656000	664666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3710.01	3840	3969.99			
20	QPSK	1	1	19.06	19.33	19.08	20.5	0.0	

Part270_n78_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 650000	High Ch. / Freq. 650000			
Channel				3760					
Frequency (MHz)				19.18					
100	PI/2 BPSK	1	1	19.18			20.5	0.0	
100	PI/2 BPSK	1	137	19.06					
100	PI/2 BPSK	1	271	19.14					
100	PI/2 BPSK	135	0	19.01			20.5	0.0	
100	PI/2 BPSK	135	69	18.95			20.5	0.0	
100	PI/2 BPSK	135	138	19.18			20.5	0.0	
100	PI/2 BPSK	270	0	19.09					
100	QPSK	1	1	19.26					
100	QPSK	1	137	19.06			20.5	0.0	
100	QPSK	1	271	19.24					
100	QPSK	135	0	19.05					
100	QPSK	135	69	19.24			20.5	0.0	
100	QPSK	135	138	19.02					
100	QPSK	270	0	19.25			20.5	0.0	
100	16QAM	1	1	19.16			20.5	0.0	
100	64QAM	1	1	19.19			20.5	0.0	
100	256QAM	1	1	18.03			19.5	1.0	
Channel				649668	656000	662332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3745.02	3840	3934.98			
90	QPSK	1	1	19.19	19.17	19.21	20.5	0.0	
Channel				648334	656000	662666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3740.01	3840	3939.99			
80	QPSK	1	1	19.14	19.12	19.17	20.5	0.0	
Channel				649000	656000	663000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3725	3840	3945			
70	QPSK	1	1	19.06	19.03	19.14	20.5	0.0	
Channel				648668	656000	663332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3730.02	3840	3949.98			
60	QPSK	1	1	19.15	19.14	19.17	20.5	0.0	
Channel				648334	656000	663666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3725.01	3840	3954.99			
50	QPSK	1	1	19.06	19.14	19.07	20.5	0.0	
Channel				649000	656000	664000	Tune-up limit (dB)	MPR	
Frequency (MHz)				3720	3840	3960			
40	QPSK	1	1	19.16	19.18	19.07	20.5	0.0	
Channel				647668	656000	664332	Tune-up limit (dB)	MPR	
Frequency (MHz)				3715.02	3840	3964.98			
30	QPSK	1	1	19.17	19.09	19.03	20.5	0.0	
Channel				647334	656000	664666	Tune-up limit (dB)	MPR	
Frequency (MHz)				3710.01	3840	3969.99			
20	QPSK	1	1	19.16	19.07	19.19	20.5	0.0	



Part270_n77_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
				650000	656000	662000				
				3750	3840	3930				
				1941	1943	1931				
100	PI/2 BPSK	1	1	1946	1952	1937	21.0	0.0		
100	PI/2 BPSK	1	137	1927	1934	1908				
100	PI/2 BPSK	1	271	1860	1863	1854	20.5	0.5		
100	PI/2 BPSK	135	0	1937	1942	1936	21.0	0.0		
100	PI/2 BPSK	135	69	1851	1858	1852	20.5	0.5		
100	PI/2 BPSK	135	138	1858	1856	1854				
100	PI/2 BPSK	270	0	1924	1938	1945				
100	QPSK	1	1	1915	1903	1901	21.0	0.0		
100	QPSK	1	137	1918	1905	1900				
100	QPSK	135	0	1821	1837	1820	21.0	0.0		
100	QPSK	135	69	1810	1853	1835				
100	QPSK	135	138	1835	1829	1811				
100	QPSK	270	0	1827	1846	1820	20.0	1.0		
100	16QAM	1	1	1824	1852	1817	20.0	1.0		
100	64QAM	1	1	1667	1696	1692	18.5	2.5		
100	256QAM	1	1	1509	1533	1525	16.5	4.5		
				649688	656000	662332	Tune-up limit (dBm)	MPR (dB)		
				3745.02	3840	3934.98	21.0	0.0		
90	QPSK	1	1	1843	1947	1941	21.0	0.0		
				649334	656000	662666	Tune-up limit (dBm)	MPR (dB)		
				3740.01	3840	3939.99	21.0	0.0		
80	QPSK	1	1	1951	1953	1945	21.0	0.0		
				649000	656000	663000	Tune-up limit (dBm)	MPR (dB)		
				3736	3840	3945	21.0	0.0		
70	QPSK	1	1	1956	1955	1941	21.0	0.0		
				648968	656000	663332	Tune-up limit (dBm)	MPR (dB)		
				3730.02	3840	3949.98	21.0	0.0		
60	QPSK	1	1	1952	1947	1943	21.0	0.0		
				648334	656000	663666	Tune-up limit (dBm)	MPR (dB)		
				3725.01	3840	3954.99	21.0	0.0		
50	QPSK	1	1	1954	1945	1942	21.0	0.0		
				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)		
				3720	3840	3960	21.0	0.0		
40	QPSK	1	1	1958	1954	1945	21.0	0.0		
				647668	656000	664332	Tune-up limit (dBm)	MPR (dB)		
				3715.02	3840	3964.98	21.0	0.0		
30	QPSK	1	1	1952	1945	1949	21.0	0.0		
				647334	656000	664666	Tune-up limit (dBm)	MPR (dB)		
				3710.01	3840	3969.99	21.0	0.0		
20	QPSK	1	1	1950	1954	1949	21.0	0.0		

Part270_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)		
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.				
				650000	656000	662000				
				3750	3840	3930				
				1932	1932	1932				
100	PI/2 BPSK	1	1	1923	1923	1923	21.0	0.0		
100	PI/2 BPSK	1	137	1927	1927	1927				
100	PI/2 BPSK	1	271	1916	1916	1916	20.5	0.5		
100	PI/2 BPSK	135	0	1929	1929	1929	21.0	0.0		
100	PI/2 BPSK	135	69	1922	1922	1922	20.5	0.5		
100	PI/2 BPSK	135	138	1929	1929	1929				
100	PI/2 BPSK	270	0	1942	1942	1942	21.0	0.0		
100	QPSK	1	1	1933	1933	1933				
100	QPSK	1	137	1922	1922	1922	21.0	0.0		
100	QPSK	135	0	1933	1933	1933				
100	QPSK	135	69	1922	1922	1922	21.0	0.0		
100	QPSK	135	138	1929	1929	1929	20.0	1.0		
100	QPSK	270	0	1941	1941	1941	20.0	1.0		
100	16QAM	1	1	1829	1829	1829	20.0	1.0		
100	64QAM	1	1	1676	1676	1676	18.5	2.5		
100	256QAM	1	1	1516	1516	1516	16.5	4.5		
				649688	650000	650332	Tune-up limit (dBm)	MPR (dB)		
				3745.02	3750	3764.98	21.0	0.0		
90	QPSK	1	1	1924	1940	1932	21.0	0.0		
				649334	650000	650666	Tune-up limit (dBm)	MPR (dB)		
				3740.01	3750	3759.99	21.0	0.0		
80	QPSK	1	1	1936	1939	1919	21.0	0.0		
				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)		
				3735	3750	3765	21.0	0.0		
70	QPSK	1	1	1933	1932	1921	21.0	0.0		
				648968	650000	651332	Tune-up limit (dBm)	MPR (dB)		
				3730.02	3750	3769.98	21.0	0.0		
60	QPSK	1	1	1933	1933	1919	21.0	0.0		
				648334	650000	651666	Tune-up limit (dBm)	MPR (dB)		
				3725.01	3750	3774.99	21.0	0.0		
50	QPSK	1	1	1921	1931	1914	21.0	0.0		
				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)		
				3720	3750	3780	21.0	0.0		
40	QPSK	1	1	1915	1941	1914	21.0	0.0		
				647668	650000	652332	Tune-up limit (dBm)	MPR (dB)		
				3715.02	3750	3784.98	21.0	0.0		
30	QPSK	1	1	1910	1934	1920	21.0	0.0		
				647334	650000	652666	Tune-up limit (dBm)	MPR (dB)		
				3710.01	3750	3789.99	21.0	0.0		
20	QPSK	1	1	1932	1925	1929	21.0	0.0		



Reduced Power for DSI 7

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	30.74	30.44	30.64	31.50	21.74	21.44	21.64	22.50
GPRS 1 Tx slot	30.71	30.42	30.62	31.50	21.71	21.42	21.62	22.50
GPRS 2 Tx slots	28.12	27.69	28.03	29.00	22.12	21.69	22.03	23.00
GPRS 3 Tx slots	26.41	26.26	26.44	27.00	22.15	22.00	22.18	22.74
GPRS 4 Tx slots	25.06	24.74	24.93	25.50	22.06	21.74	21.93	22.50
EDGE 1 Tx slot	25.60	25.34	25.47	26.00	16.60	16.34	16.47	17.00
EDGE 2 Tx slots	23.49	23.49	23.58	24.50	17.49	17.49	17.58	18.50
EDGE 3 Tx slots	21.39	21.42	21.51	22.00	17.13	17.16	17.25	17.74
EDGE 4 Tx slots	19.41	19.48	19.50	20.00	16.41	16.48	16.50	17.00

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	661		810	512	661	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	23.13	23.15	23.34	24.00	14.13	14.15	14.34	15.00
GPRS 1 Tx slot	23.11	23.13	23.32	24.00	14.11	14.13	14.32	15.00
GPRS 2 Tx slots	21.71	21.67	21.72	22.00	15.71	15.67	15.72	16.00
GPRS 3 Tx slots	19.67	19.42	19.63	20.50	15.41	15.16	15.37	16.24
GPRS 4 Tx slots	17.52	17.71	17.75	18.50	14.52	14.71	14.75	15.50
EDGE 1 Tx slot	20.07	20.27	20.31	21.00	11.07	11.27	11.31	12.00
EDGE 2 Tx slots	17.23	17.27	17.07	18.00	11.23	11.27	11.07	12.00
EDGE 3 Tx slots	16.04	15.95	15.92	17.00	11.78	11.69	11.66	12.74
EDGE 4 Tx slots	13.95	14.18	14.17	15.00	10.95	11.18	11.17	12.00

Band	TX Channel	Rx Channel	WCDMA II_Ant 0			Tune-Up Limit (dBm)	WCDMA IV_Ant 0			Tune-Up Limit (dBm)	WCDMA V_Ant 0			Tune-Up Limit (dBm)	
			9262	9400	9538		1312	1413	1513		4132	4182	4233		
Frequency (MHz)	1852.4	1880	1907.6			1712.4	1732.6	1752.6			826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps			15.98	16.00	15.95	16.50	17.95	17.97	17.86	18.50	22.06	22.12	22.10	23.00
3GPP Rel 99	RMC 12.2Kbps			16.00	16.03	15.97	16.50	17.97	17.99	17.88	18.50	22.08	22.15	22.12	23.00
3GPP Rel 6	HSDPA Subtest-1			15.02	14.92	14.99	15.50	16.69	16.98	16.89	17.50	21.02	20.97	20.97	22.00
3GPP Rel 6	HSDPA Subtest-2			14.97	15.05	15.04	15.50	16.73	16.99	17.05	17.50	20.94	21.06	21.01	22.00
3GPP Rel 6	HSDPA Subtest-3			14.50	14.57	14.58	15.00	16.37	16.58	16.40	17.00	20.46	20.60	20.55	21.50
3GPP Rel 6	HSDPA Subtest-4			14.52	14.54	14.56	15.00	16.22	16.05	16.47	17.00	20.48	20.53	20.47	21.50
3GPP Rel 8	DC-HSDPA Subtest-1			14.74	15.01	14.90	15.50	16.80	16.91	16.81	17.50	20.89	20.85	20.75	22.00
3GPP Rel 8	DC-HSDPA Subtest-2			14.82	14.88	14.84	15.50	16.84	16.80	17.01	17.50	21.01	20.73	20.78	22.00
3GPP Rel 8	DC-HSDPA Subtest-3			14.51	14.36	14.41	15.00	16.14	16.25	16.41	17.00	20.38	20.47	20.61	21.50
3GPP Rel 8	DC-HSDPA Subtest-4			14.32	14.51	14.42	15.00	16.34	16.09	16.43	17.00	20.35	20.33	20.43	21.50
3GPP Rel 6	HSUPA Subtest-1			14.94	15.13	15.10	15.50	16.83	16.99	17.01	17.50	20.95	20.94	21.09	22.00
3GPP Rel 6	HSUPA Subtest-2			13.01	13.03	13.07	13.50	14.89	14.98	15.08	15.50	18.92	18.87	19.07	20.00
3GPP Rel 6	HSUPA Subtest-3			14.03	13.99	14.05	14.50	15.86	16.00	16.16	16.50	20.12	20.05	19.93	21.00
3GPP Rel 6	HSUPA Subtest-4			12.90	13.14	13.08	13.50	14.85	14.97	15.02	15.50	18.98	19.07	19.02	20.00
3GPP Rel 6	HSUPA Subtest-5			15.00	14.99	15.06	15.50	16.91	16.93	17.04	17.50	21.08	21.12	20.92	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1			13.22	12.86	13.27	13.50	14.97	15.01	15.06	15.50	19.15	19.13	19.16	20.00





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Band 2 Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High / Freq.	Turnup Int. (dB)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	19.02	19.00	19.04					
20	QPSK	1	49	19.83	19.81	19.81	17	0			
20	QPSK	1	99	19.85	19.80	19.80					
20	QPSK	50	0	19.02	19.00	19.04					
20	QPSK	50	24	19.96	19.96	19.98	17	0			
20	QPSK	50	30	19.92	19.91	19.93					
20	QPSK	100	0	19.98	19.99	19.97					
20	16QAM	1	0	19.91	19.96	19.91					
20	16QAM	1	49	19.91	19.90	19.78	17	0			
20	16QAM	1	99	19.92	19.92	19.93					
20	16QAM	50	0	19.78	19.98	19.98					
20	16QAM	50	24	19.90	19.90	19.90	17	0			
20	16QAM	50	29	19.95	19.92	19.88					
20	16QAM	100	0	19.02	19.95	19.98					
20	64QAM	1	0	19.58	19.71	19.76					
20	64QAM	1	49	19.70	19.72	19.95	17	0			
20	64QAM	1	99	19.81	19.89	19.95					
20	64QAM	50	0	19.78	19.93	19.88					
20	64QAM	50	24	19.85	19.92	19.92	17	0			
20	64QAM	50	50	19.97	19.92	19.92					
20	64QAM	100	0	19.70	19.80	19.85					
20	256QAM	1	0	19.85	19.87	19.87					
20	256QAM	1	49	19.99	19.71	19.48	17	0			
20	256QAM	1	99	19.83	19.82	19.72					
20	256QAM	50	0	19.88	19.88	19.88					
20	256QAM	50	24	19.98	19.97	19.90	17	0			
20	256QAM	50	50	19.79	19.96	19.99					
20	256QAM	100	0	19.82	19.90	19.92					
Channel											
Frequency (MHz)											
15	QPSK	1	0	19.90	19.99	19.98					
15	QPSK	1	31	19.93	19.90	19.90	17	0			
15	QPSK	1	74	19.81	19.88	19.90					
15	QPSK	36	0	19.86	19.80	19.91					
15	QPSK	36	4	19.98	19.81	19.87	17	0			
15	QPSK	36	39	19.98	19.91	19.89					
15	QPSK	75	0	19.84	19.91	19.89					
15	16QAM	1	0	19.67	19.74	19.77					
15	16QAM	1	37	19.88	19.72	19.59	17	0			
15	16QAM	1	74	19.43	19.79	19.72					
15	16QAM	36	0	19.78	19.87	19.86					
15	16QAM	36	20	19.88	19.99	19.99	17	0			
15	16QAM	36	39	19.97	19.82	19.84					
15	16QAM	75	0	19.86	19.87	19.94					
15	64QAM	1	0	19.44	19.94	19.91	17	0			
15	64QAM	1	37	19.58	19.87	19.82					
15	64QAM	1	74	19.73	19.77	19.88					
15	64QAM	36	0	19.72	19.87	19.87	17	0			
15	64QAM	36	20	19.89	19.79	19.77					
15	64QAM	36	39	19.94	19.84	19.90					
15	64QAM	75	0	19.68	19.85	19.85					
15	256QAM	1	0	19.81	19.81	19.81					
15	256QAM	1	37	19.82	19.87	19.82	17	0			
15	256QAM	1	74	19.76	19.86	19.75					
15	256QAM	36	0	19.76	19.85	19.91					
15	256QAM	36	20	19.71	19.89	19.78	17	0			
15	256QAM	36	39	19.76	19.85	19.85					
15	256QAM	75	0	19.82	19.86	19.83					
Channel											
Frequency (MHz)											
10	QPSK	1	0	19.88	19.88	19.90					
10	QPSK	1	26	19.81	19.78	19.78	17	0			
10	QPSK	1	49	19.78	19.72	19.83					
10	QPSK	1	49	19.93	19.84	19.98					
10	QPSK	25	12	19.99	19.79	19.75	17	0			
10	QPSK	25	26	19.74	19.75	19.88					
10	16QAM	1	0	19.85	19.74	19.95					
10	16QAM	1	0	19.87	19.79	19.91					
10	16QAM	1	26	19.89	19.77	19.84	17	0			
10	16QAM	1	49	19.87	19.99	19.99					
10	16QAM	25	0	19.81	19.97	19.72					
10	16QAM	25	12	19.77	19.96	19.99					
10	16QAM	25	26	19.76	19.97	19.95	17	0			
10	16QAM	50	0	19.03	19.96	19.93					
10	64QAM	1	0	19.47	19.72	19.80	17	0			
10	64QAM	1	26	19.86	19.74	19.42					
10	64QAM	1	49	19.72	19.79	19.78					
10	64QAM	25	0	19.78	19.84	19.82					
10	64QAM	25	12	19.76	19.81	19.72	17	0			
10	64QAM	25	26	19.88	19.88	19.90					
10	64QAM	50	0	19.83	19.80	19.82					
10	256QAM	1	0	19.70	19.88	19.70					
10	256QAM	1	26	19.82	19.82	19.88	17	0			
10	256QAM	1	49	19.54	19.75	19.54					
10	256QAM	25	0	19.91	19.97	19.80					
10	256QAM	25	12	19.88	19.85	19.85	17	0			
10	256QAM	25	26	19.76	19.82	19.93					
10	256QAM	50	0	19.64	19.74	19.71					
Channel											
Frequency (MHz)											
5	QPSK	1	0	19.85	19.82	19.82					
5	QPSK	1	12	19.84	19.84	19.88	17	0			
5	QPSK	1	24	19.87	19.78	19.87					
5	QPSK	12	0	19.88	19.86	19.98					
5	QPSK	12	7	19.98	19.84	19.87	17	0			
5	QPSK	12	13	19.88	19.87	19.81					
5	QPSK	25	0	19.87	19.83	19.95					
5	16QAM	1	0	19.76	19.82	19.79					
5	16QAM	1	12	19.77	19.79	19.91	17	0			
5	16QAM	1	24	19.85	19.78	19.76					
5	16QAM	12	0	19.77	19.96	19.72					
5	16QAM	12	7	19.79	19.82	19.85	17	0			
5	16QAM	12	13	19.77	19.80	19.84					
5	16QAM	25	0	19.94	19.92	19.92					
5	64QAM	1	0	19.41	19.81	19.81	17	0			
5	64QAM	1	12	19.57	19.82	19.48					
5	64QAM	1	24	19.67	19.91	19.93					
5	64QAM	12	0	19.79	19.79	19.88	17	0			
5	64QAM	12	7	19.75	19.78	19.91					
5	64QAM	12	13	19.79	19.91	19.90					
5	256QAM	1	0	19.79	19.77	19.72					
5	256QAM	1	12	19.44	19.55	19.54	17	0			
5	256QAM	1	24	19.47	19.83	19.81					
5	256QAM	12	0	19.91	19.97	19.90	17	0			
5	256QAM	12	7	19.75	19.87	19.82					
5	256QAM	12	13	19.82	19.81	19.97					
5	256QAM	25	0	19.69	19.87	19.87					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	19.84	19.92	19.87					
1.4	QPSK	1	3	19.78	19.86	19.73					
1.4	QPSK	1	6	19.80	19.90	19.89	17	0			
1.4	QPSK	3	0	19.88	19.92	19.91					
1.4	QPSK	3	1	19.80	19.78	19.89					
1.4	QPSK	3	3	19.80	19.73	19.88	17	0			
1.4	16QAM	1	0	19.80	19.83	19.89					
1.4	16QAM	1	0	19.78	19.86	19.83					
1.4	16QAM	1	3	19.81	19.91	19.91	17	0			
1.4	16QAM	3	1	19.69	19.99	19.99					
1.4	16QAM	3	1	19.69	19.99	19.99					
1.4	16QAM	6	0	19.97	19.96	19.86	17	0			
1.4	64QAM	1	0	19.43	19.67	19.73					
1.4	64QAM	1	14	19.80	19.76	19.48					
1.4	64QAM	1	5	19.84	19.84	19.88	17	0			
1.4	64QAM	3	0	19.71	19.95	19.78					
1.4	64QAM	3	1	19.73	19.88	19.74					
1.4	64QAM	3	3	19.88	19.95	19.85					
1.4	64QAM	6	0	19.63	19.83	19.69	17	0			
1.4	256QAM	1	0	19.70	19.81	19.81					
1.4	256QAM	1	3	19.44	19.71	19.53					
1.4	256QAM	1	5	19.63	19.73	19.55	17	0			
1.4	256QAM	3	0	19.85	19.81	19.81					
1.4	256QAM	3	1	19.89	19.98	19.87					
1.4	256QAM	3	3	19.84	19.89	19.93					
1.4	256QAM	6	0	19.71	19.75	19.63	17	0			

Band 4 Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch							



Band 17_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mide Ch / Freq	Power High Ch / Freq	Tuneup (dBm)	MFR (dB)	
Channel 769 770 771									
Frequency (MHz)									
10	QPSK	1	0	22.55	23.03	23.01			
10	QPSK	1	25	22.91	22.92	22.97	24	0	
10	QPSK	1	48	22.96	22.92	22.98			
10	QPSK	25	0	22.12	22.27	22.21			
10	QPSK	25	12	22.12	22.12	22.20	23	1	
10	QPSK	25	25	22.15	22.24	22.12			
10	QPSK	50	0	22.17	22.23	22.20			
10	HQAM	1	0	22.25	22.29	22.70			
10	HQAM	1	25	22.43	22.26	22.33	23	1	
10	HQAM	1	48	22.41	22.29	22.70			
10	HQAM	25	0	21.28	21.22	21.37			
10	HQAM	25	12	21.32	21.22	21.28	22	2	
10	HQAM	25	25	21.10	21.24	21.14			
10	HQAM	50	0	21.28	21.20	21.23			
10	HQAM	1	0	21.62	21.38	21.36			
10	HQAM	1	25	21.74	21.54	21.33	22	2	
10	HQAM	1	48	21.41	21.61	21.46			
10	HQAM	25	0	20.27	20.22	20.38			
10	HQAM	25	12	20.44	20.28	20.36			
10	HQAM	25	25	20.32	20.18	20.27	21	3	
10	HQAM	50	0	20.38	20.32	20.28			
10	SSQAM	1	0	17.68	17.71	17.80			
10	SSQAM	1	25	17.88	17.77	17.86	19	5	
10	SSQAM	1	48	17.88	17.70	17.79			
10	SSQAM	25	0	17.70	17.71	17.86			
10	SSQAM	25	12	17.88	17.67	17.94	19	5	
10	SSQAM	25	25	17.73	17.65	17.74			
10	SSQAM	50	0	17.68	17.65	17.82			
Channel 769 770 771									
Frequency (MHz)									
5	QPSK	1	0	22.87	22.96	23.00			
5	QPSK	1	12	22.88	22.77	22.90	24	0	
5	QPSK	1	24	22.84	22.59	23.01			
5	QPSK	12	0	22.28	22.28	22.18			
5	QPSK	12	7	22.30	22.07	22.11			
5	QPSK	12	13	22.38	22.20	22.27	23	1	
5	QPSK	25	0	22.30	22.28	22.29			
5	HQAM	1	12	22.43	22.42	22.43	23	1	
5	HQAM	1	24	22.47	22.22	22.32			
5	HQAM	12	0	21.37	21.14	21.44			
5	HQAM	12	7	21.38	21.09	21.25	22	2	
5	HQAM	12	13	21.27	21.09	21.06			
5	HQAM	25	0	21.13	21.10	21.19			
5	HQAM	1	0	21.38	21.28	21.38			
5	HQAM	1	12	21.74	21.67	21.30	22	2	
5	HQAM	1	24	21.50	21.40	21.42			
5	HQAM	12	0	20.35	20.20	20.44			
5	HQAM	12	7	20.33	20.25	20.44	21	3	
5	HQAM	12	13	20.14	20.15	20.22			
5	HQAM	25	0	20.38	20.32	20.33			
5	SSQAM	1	0	17.79	17.65	17.66			
5	SSQAM	1	12	17.83	17.63	17.80	19	5	
5	SSQAM	1	24	17.77	17.78	17.87			
5	SSQAM	12	0	17.60	17.62	17.72			
5	SSQAM	12	7	17.84	17.59	17.88	19	5	
5	SSQAM	12	13	17.65	17.63	17.71			
5	SSQAM	25	0	17.57	17.62	17.72			

Band 26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mide Ch / Freq	Power High Ch / Freq	Tuneup (dBm)	MFR (dB)	
Channel 8276 8285 8290									
Frequency (MHz)									
15	QPSK	1	0	21.13	21.29	21.21			
15	QPSK	1	37	21.12	21.17	21.18	22.5	0	
15	QPSK	1	74	21.07	21.16	21.15			
15	QPSK	36	0	21.11	21.25	21.25			
15	QPSK	36	20	21.11	21.27	21.17	22.5	0	
15	QPSK	36	38	21.30	21.25	21.24			
15	QPSK	36	53	21.45	21.19	21.09			
15	HQAM	1	0	21.01	21.15	21.02			
15	HQAM	1	37	21.11	21.21	21.13	22.5	0	
15	HQAM	1	74	21.14	21.28	21.15			
15	HQAM	36	0	20.51	20.68	20.51			
15	HQAM	36	20	20.63	20.71	20.75	22	0.5	
15	HQAM	36	39	20.69	20.67	20.61			
15	HQAM	75	0	20.46	20.41	20.44			
15	HQAM	1	0	20.63	20.66	20.54	22	0.5	
15	HQAM	1	37	20.62	20.28	20.62			
15	HQAM	1	74	20.87	20.85	20.82			
15	HQAM	36	0	19.49	19.68	19.82			
15	HQAM	36	20	19.83	19.72	19.75	21	1.5	
15	HQAM	36	39	19.74	19.75	19.69			
15	HQAM	75	0	19.67	19.66	19.65			
15	SSQAM	1	0	17.55	17.61	17.56			
15	SSQAM	1	37	17.37	17.35	17.26	19	3.5	
15	SSQAM	1	74	17.50	17.68	17.50			
15	SSQAM	36	0	17.48	17.20	17.35			
15	SSQAM	36	20	17.28	17.46	17.47	19	3.5	
15	SSQAM	36	39	17.54	17.50	17.42			
15	SSQAM	75	0	17.48	17.44	17.25			
Channel 8276 8285 8290									
Frequency (MHz)									
10	QPSK	1	0	20.36	21.22	21.05			
10	QPSK	1	24	21.09	21.28	21.05	22.5	0	
10	QPSK	1	48	21.11	20.58	20.95			
10	QPSK	25	0	21.28	21.22	21.22			
10	QPSK	25	12	21.18	21.27	21.17			
10	QPSK	25	25	21.25	21.19	21.24	22.5	0	
10	QPSK	50	0	21.09	21.22	21.14			
10	HQAM	1	0	20.36	20.41	20.36			
10	HQAM	1	25	20.30	21.20	20.95	22.5	0	
10	HQAM	1	48	20.38	21.28	21.10			
10	HQAM	25	0	20.36	20.47	20.36			
10	HQAM	25	12	20.36	20.78	20.59	22	0.5	
10	HQAM	25	25	20.57	20.53	20.50			
10	HQAM	50	0	20.42	20.47	20.36			
10	HQAM	1	0	20.46	20.57	20.41			
10	HQAM	1	25	20.54	20.68	20.65	22	0.5	
10	HQAM	1	48	20.32	20.69	20.69			
10	HQAM	25	0	19.48	19.62	19.65			
10	HQAM	25	12	19.46	19.65	19.61	21	1.5	
10	HQAM	25	25	19.65	19.73	19.54			
10	HQAM	50	0	19.62	19.68	19.44			
10	SSQAM	1	0	17.65	17.49	17.51			
10	SSQAM	1	25	17.31	17.25	17.24	19	3.5	
10	SSQAM	1	48	17.48	17.58	17.48			
10	SSQAM	25	0	17.33	17.34	17.21			
10	SSQAM	25	12	17.18	17.24	17.43	19	3.5	
10	SSQAM	25	25	17.34	17.37	17.46			
10	SSQAM	50	0	17.32	17.42	17.33			
Channel 8276 8285 8290									
Frequency (MHz)									
5	QPSK	1	0	21.02	21.15	21.08			
5	QPSK	1	12	21.03	20.87	21.01	22.5	0	
5	QPSK	1	24	20.84	21.16	20.97			
5	QPSK	12	0	21.08	21.25	21.28			
5	QPSK	12	7	21.02	21.28	21.19	22.5	0	
5	QPSK	12	13	20.98	21.25	21.28			
5	HQAM	1	0	21.05	21.24	21.07			
5	HQAM	1	0	20.90	20.90	21.07			
5	HQAM	1	12	21.08	21.24	21.20	22.5	0	
5	HQAM	1	24	21.16	21.23	21.10			
5	HQAM	12	0	20.41	20.96	20.37			
5	HQAM	12	7	20.68	20.54	20.69	22	0.5	
5	HQAM	12	13	20.68	20.49	21.08			
5	HQAM	25	0	20.35	20.83	20.29			
5	HQAM	1	0	20.50	20.44	20.32			
5	HQAM	1	12	20.83	20.78	20.62	22	0.5	
5	HQAM	1	24	20.85	20.65	20.69			
5	HQAM	12	0	19.38	19.73	19.52			
5	HQAM	12	7	19.88	19.54	19.84	21	1.5	
5	HQAM	12	13	19.76	19.77	19.57			
5	HQAM	25	0	19.60	19.72	19.46			
5	SSQAM	1	0	17.48	17.67	17.41			
5	SSQAM	1	12	17.62	17.62	17.27	19	3.5	
5	SSQAM	1	24	17.30	17.60	17.28			
5	SSQAM	12	0	17.48	17.53	17.40			
5	SSQAM	12	7	17.18	17.67	17.26	19	3.5	
5	SSQAM	12	13	17.38	17.41	17.44			
5	SSQAM	25	0	17.38	17.41	17.06			
Channel 8276 8285 8290									
Frequency (MHz)									
3	QPSK	1	0	21.18	21.19	21.02			
3	QPSK	1	8	20.93	21.25	21.15	22.5	0	
3	QPSK	1	14	21.13	21.24	20.95			
3	QPSK	8	0	21.08	21.09	21.15			
3	QPSK	8	4	21.06	21.13	20.99	22.5	0	
3	QPSK	16	0	21.27	21.14	21.09			
3	HQAM	1	0	21.08	20.83	21.04			
3	HQAM	1	8	21.13	21.13	21.06	22.5	0	
3	HQAM	1	14	21.00	21.08	21.00			
3	HQAM	8	0	20.87	20.53	20.48			
3	HQAM	8	4	20.48	20.39	20.58	22	0.5	
3	HQAM	8	7	20.74	20.57	20.50			
3	HQAM	15	0	20.33	20.55	20.33			
3	HQAM	1	0	20.47	20.49	20.45			
3	HQAM	1	8	20.62	20.84	20.76	22	0.5	
3	HQAM	1	14	20.82	20.93	20.87			
3	HQAM	8	0	19.28	19.25	19.09			
3	HQAM	8	4	19.90	19.59	19.60	21	1.5	
3	HQAM	8	7	19.81					



Band 38\_Ant 1

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				37850	38000	38150		
Frequency (MHz)				2590	2595	2610		
20	QPSK	1	0	14.12	14.23	14.10		
20	QPSK	1	49	13.80	13.93	14.02	15	0
20	QPSK	1	99	13.81	13.96	14.01		
20	QPSK	50	0	14.06	14.08	14.04		
20	QPSK	50	24	14.03	14.02	13.96		
20	QPSK	50	50	14.02	14.07	13.92	15	0
20	QPSK	100	0	14.00	14.12	14.05		
20	16QAM	1	0	13.99	14.10	14.07		
20	16QAM	1	49	13.76	13.80	13.71	15	0
20	16QAM	1	99	13.85	13.95	13.71		
20	16QAM	50	0	14.02	13.89	13.86		
20	16QAM	50	24	14.07	14.18	14.10		
20	16QAM	50	50	13.70	13.81	13.99	15	0
20	16QAM	100	0	13.87	13.84	13.98		
20	64QAM	1	0	13.46	13.50	13.51		
20	64QAM	1	49	13.63	13.51	13.56	15	0
20	64QAM	1	99	13.64	13.57	13.57		
20	64QAM	50	0	14.02	14.11	14.01		
20	64QAM	50	24	14.05	14.01	14.13		
20	64QAM	50	50	14.01	14.09	13.96	15	0
20	64QAM	100	0	13.89	13.77	13.94		
20	256QAM	1	0	14.10	14.03	14.10		
20	256QAM	1	49	13.81	13.88	13.85	15	0
20	256QAM	1	99	13.85	13.90	13.86		
20	256QAM	50	0	13.90	13.75	13.96		
20	256QAM	50	24	13.98	13.98	13.85	15	0
20	256QAM	50	50	13.95	14.07	13.96		
20	256QAM	100	0	14.10	13.84	13.94		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	13.98	14.16	14.12		
15	QPSK	1	37	13.75	13.76	13.87	15	0
15	QPSK	1	74	13.85	13.91	13.97		
15	QPSK	36	0	14.08	14.03	14.04		
15	QPSK	36	20	14.01	14.03	13.89	15	0
15	QPSK	36	36	13.86	14.01	13.77		
15	QPSK	75	0	13.95	14.09	13.96		
15	16QAM	1	0	13.94	14.05	13.90		
15	16QAM	1	37	13.73	13.79	13.68	15	0
15	16QAM	1	74	13.85	13.97	13.58		
15	16QAM	36	0	13.86	13.74	13.86		
15	16QAM	36	20	14.09	14.10	14.02	15	0
15	16QAM	36	36	13.60	13.76	13.84		
15	16QAM	75	0	13.81	13.81	13.88		
15	64QAM	1	0	13.39	13.39	13.41		
15	64QAM	1	37	13.45	13.40	13.43	15	0
15	64QAM	1	74	13.61	13.43	13.45		
15	64QAM	36	0	13.99	13.98	14.01		
15	64QAM	36	20	14.05	13.91	14.11	15	0
15	64QAM	36	36	13.86	13.93	13.86		
15	64QAM	75	0	13.71	13.76	13.87		
15	256QAM	1	0	14.04	13.85	14.12		
15	256QAM	1	37	13.67	13.86	13.87	15	0
15	256QAM	1	74	13.72	13.90	13.70		
15	256QAM	36	0	13.76	13.61	13.78		
15	256QAM	36	20	13.96	13.83	13.76	15	0
15	256QAM	36	36	13.89	13.93	13.81		
15	256QAM	75	0	13.98	13.67	13.78		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	13.98	14.13	14.02		
10	QPSK	1	25	13.78	13.90	13.85	15	0
10	QPSK	1	49	13.85	13.84	14.00		
10	QPSK	25	0	14.05	14.02	14.00		
10	QPSK	25	12	14.00	13.95	13.97	15	0
10	QPSK	25	25	13.87	13.92	13.74		
10	QPSK	50	0	13.83	13.95	13.92		
10	16QAM	1	0	13.90	14.12	13.92		
10	16QAM	1	25	13.75	13.78	13.60	15	0
10	16QAM	1	49	13.81	13.76	13.63		
10	16QAM	25	0	13.91	13.84	13.76		
10	16QAM	25	12	13.94	14.15	14.12	15	0
10	16QAM	25	25	13.57	13.78	13.84		
10	16QAM	50	0	13.83	13.74	13.96		
10	64QAM	1	0	13.34	13.46	13.52		
10	64QAM	1	25	13.53	13.49	13.55	15	0
10	64QAM	1	49	13.51	13.58	13.50		
10	64QAM	25	0	13.91	14.03	13.83		
10	64QAM	25	12	14.02	14.01	14.07	15	0
10	64QAM	25	25	13.97	14.08	13.82		
10	64QAM	50	0	13.74	13.73	13.93		
10	256QAM	1	0	13.97	13.94	14.06		
10	256QAM	1	25	13.76	13.87	13.69	15	0
10	256QAM	1	49	13.79	13.73	13.86		
10	256QAM	25	0	13.87	13.62	13.98		
10	256QAM	25	12	13.86	13.83	13.69	15	0
10	256QAM	25	25	13.98	13.98	13.88		
10	256QAM	50	0	14.03	13.83	13.84		
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	13.96	14.21	13.95		
5	QPSK	1	12	13.68	13.86	13.97	15	0
5	QPSK	1	24	13.82	13.79	14.02		
5	QPSK	12	0	13.85	13.90	13.96		
5	QPSK	12	13	13.94	14.08	13.80	15	0
5	QPSK	25	0	13.85	13.96	14.00		
5	16QAM	1	0	13.87	14.03	13.91		
5	16QAM	1	12	13.71	13.64	13.71	15	0
5	16QAM	1	24	13.76	13.83	13.54		
5	16QAM	12	0	13.92	13.62	13.86		
5	16QAM	12	7	13.96	14.10	14.05	15	0
5	16QAM	12	13	13.63	13.68	13.94		
5	16QAM	25	0	13.84	13.81	13.96		
5	64QAM	1	0	13.47	13.32	13.51		
5	64QAM	1	12	13.54	13.33	13.38	15	0
5	64QAM	1	24	13.66	13.57	13.54		
5	64QAM	12	0	14.02	13.94	13.96		
5	64QAM	12	7	13.90	13.85	14.02	15	0
5	64QAM	12	13	13.91	14.09	13.79		
5	64QAM	25	0	13.80	13.77	13.95		
5	256QAM	1	0	14.04	13.89	14.00		
5	256QAM	1	12	13.77	13.83	13.83	15	0
5	256QAM	1	24	13.84	13.79	13.71		
5	256QAM	12	0	13.78	13.65	13.87		
5	256QAM	12	7	13.88	13.85	13.88	15	0
5	256QAM	12	13	13.96	14.05	13.82		
5	256QAM	25	0	13.93	13.84	13.82		

Band 41\_Ant 1

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				39750	40185	40620		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680
20	QPSK	1	0	14.19	14.22	14.20	14.28	14.27
20	QPSK	1	49	13.94	14.04	14.02	14.00	14.06
20	QPSK	1	99	13.96	14.01	14.06	13.96	14.02
20	QPSK	50	0	14.17	14.20	14.17	14.24	14.26
20	QPSK	50	24	14.06	14.06	14.05	14.10	14.24
20	QPSK	50	50	14.10	14.12	14.10	14.07	14.18
20	QPSK	100	0	14.05	14.14	14.09	14.11	14.24
20	16QAM	1	0	14.14	14.13	14.20	14.15	14.26
20	16QAM	1	49	13.91	13.98	13.83	13.81	13.96
20	16QAM	1	99	13.94	13.95	14.04	13.94	13.92
20	16QAM	50	0	14.00	14.04	13.92	13.97	14.09
20	16QAM	50	24	14.07	14.17	14.15	14.20	14.24
20	16QAM	50	50	13.85	13.91	14.02	14.00	14.03
20	16QAM	100	0	14.02	14.02	14.13	14.05	14.09
20	64QAM	1	0	13.64	13.56	13.58	13.80	13.76
20	64QAM	1	49	13.64	13.59	13.56	13.66	13.72
20	64QAM	1	99	13.63	13.67	13.67	13.51	13.65
20	64QAM	50	0	14.05	14.11	13.99	13.99	14.18
20	64QAM	50	24	14.19	14.17	14.12	14.14	14.28
20	64QAM	50	50	14.01	14.14	14.11	14.16	14.17
20	64QAM	100	0	13.89	13.88	14.01	14.01	1



Band 41 (HPUE)_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low 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)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	15.78	15.67	15.70	15.78	15.80	16.5	0
20	QPSK	1	49	15.45	15.52	15.38	15.47	15.57		
20	QPSK	1	99	15.21	15.21	15.21	15.23	15.26		
20	QPSK	50	0	15.75	15.65	15.65	15.75	15.77		
20	QPSK	50	24	15.60	15.64	15.68	15.68	15.65		
20	QPSK	50	50	15.61	15.59	15.54	15.75	15.71		
20	QPSK	100	0	15.53	15.56	15.50	15.57	15.75		
20	16QAM	1	0	15.72	15.60	15.57	15.73	15.72		
20	16QAM	1	49	15.49	15.42	15.40	15.30	15.46		
20	16QAM	1	99	15.34	15.35	15.55	15.37	15.21		
20	16QAM	50	0	15.68	15.57	15.50	15.50	15.68		
20	16QAM	50	24	15.55	15.79	15.57	15.73	15.74		
20	16QAM	50	50	15.46	15.40	15.54	15.55	15.54		
20	16QAM	100	0	15.52	15.67	15.67	15.53	15.65		
20	64QAM	1	0	15.65	15.59	15.68	15.60	15.77		
20	64QAM	1	49	15.42	15.42	15.48	15.60	15.57		
20	64QAM	1	99	15.41	15.27	15.45	15.46	15.27		
20	64QAM	50	0	15.78	15.63	15.72	15.60	15.76		
20	64QAM	50	24	15.66	15.67	15.59	15.72	15.75		
20	64QAM	50	50	15.62	15.72	15.59	15.65	15.76		
20	64QAM	100	0	15.65	15.54	15.53	15.51	15.65		
20	256QAM	1	0	15.55	15.56	15.48	15.48	15.63		
20	256QAM	1	49	15.23	15.36	15.21	15.37	15.39		
20	256QAM	1	99	15.38	15.38	15.63	15.54	15.27		
20	256QAM	50	0	15.60	15.65	15.59	15.63	15.67		
20	256QAM	50	24	15.58	15.62	15.48	15.51	15.65		
20	256QAM	50	50	15.67	15.55	15.57	15.57	15.72		
20	256QAM	100	0	15.42	15.49	15.39	15.62	15.57		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	15.66	15.51	15.52	15.53	15.59	16.5	0
15	QPSK	1	37	15.41	15.44	15.25	15.28	15.61		
15	QPSK	1	74	15.47	15.46	15.49	15.54	15.48		
15	QPSK	38	0	15.67	15.49	15.64	15.61	15.70		
15	QPSK	38	20	15.45	15.58	15.65	15.62	15.51		
15	QPSK	38	39	15.58	15.54	15.43	15.72	15.73		
15	QPSK	75	0	15.61	15.40	15.57	15.47	15.74		
15	16QAM	1	0	15.71	15.67	15.48	15.72	15.61		
15	16QAM	1	37	15.50	15.29	15.20	15.11	15.61		
15	16QAM	1	74	15.20	15.34	15.43	15.33	15.52		
15	16QAM	38	0	15.21	15.54	15.39	15.56	15.63		
15	16QAM	38	20	15.54	15.63	15.52	15.56	15.70		
15	16QAM	38	39	15.51	15.39	15.53	15.54	15.34		
15	16QAM	75	0	15.41	15.49	15.49	15.42	15.72		
15	64QAM	1	0	15.47	15.59	15.76	15.50	15.76		
15	64QAM	1	37	15.21	15.32	15.41	15.60	15.60		
15	64QAM	1	74	15.25	15.37	15.28	15.49	15.44		
15	64QAM	38	0	15.62	15.60	15.60	15.61	15.78		
15	64QAM	38	20	15.61	15.60	15.67	15.78	15.78		
15	64QAM	38	39	15.52	15.53	15.63	15.60	15.61		
15	64QAM	75	0	15.57	15.62	15.52	15.51	15.59		
15	256QAM	1	0	15.33	15.59	15.56	15.33	15.46		
15	256QAM	1	37	15.11	15.19	15.19	15.25	15.30		
15	256QAM	1	74	15.59	15.58	15.41	15.35	15.70		
15	256QAM	38	0	15.64	15.66	15.67	15.46	15.75		
15	256QAM	38	20	15.58	15.55	15.49	15.46	15.55		
15	256QAM	38	39	15.68	15.57	15.37	15.55	15.72		
15	256QAM	75	0	15.30	15.54	15.38	15.50	15.57		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	15.72	15.59	15.57	15.55	15.58	16.5	0
10	QPSK	1	25	15.50	15.39	15.21	15.36	15.65		
10	QPSK	1	49	15.49	15.58	15.58	15.32	15.74		
10	QPSK	25	0	15.68	15.70	15.61	15.70	15.70		
10	QPSK	25	12	15.58	15.47	15.65	15.75	15.62		
10	QPSK	25	25	15.41	15.40	15.82	15.71	15.53		
10	QPSK	50	0	15.46	15.37	15.44	15.63	15.76		
10	16QAM	1	0	15.69	15.40	15.43	15.54	15.77		
10	16QAM	1	25	15.29	15.40	15.40	15.16	15.34		
10	16QAM	1	49	15.28	15.28	15.41	15.17	15.39		
10	16QAM	25	0	15.65	15.63	15.56	15.32	15.68		
10	16QAM	25	12	15.37	15.63	15.57	15.78	15.78		
10	16QAM	25	25	15.33	15.45	15.49	15.52	15.53		
10	16QAM	50	0	15.52	15.66	15.73	15.39	15.61		
10	64QAM	1	0	15.68	15.43	15.70	15.48	15.66		
10	64QAM	1	25	15.35	15.38	15.49	15.57	15.37		
10	64QAM	1	49	15.24	15.38	15.36	15.37	15.35		
10	64QAM	25	0	15.64	15.61	15.63	15.42	15.84		
10	64QAM	25	12	15.74	15.56	15.48	15.72	15.73		
10	64QAM	25	25	15.57	15.63	15.45	15.71	15.61		
10	64QAM	50	0	15.64	15.54	15.60	15.55	15.61		
10	256QAM	1	0	15.46	15.49	15.55	15.37	15.50		
10	256QAM	1	25	15.05	15.36	15.19	15.16	15.46		
10	256QAM	1	49	15.41	15.63	15.71	15.62	15.61		
10	256QAM	25	0	15.43	15.43	15.32	15.62	15.35		
10	256QAM	25	12	15.36	15.43	15.48	15.48	15.52		
10	256QAM	25	25	15.46	15.48	15.65	15.63	15.52		
10	256QAM	50	0	15.43	15.55	15.31	15.65	15.50		
Channel				39675	40148	40620	41093	41655	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	15.62	15.48	15.54	15.56	15.66	16.5	0
5	QPSK	1	12	15.27	15.54	15.26	15.44	15.50		
5	QPSK	1	24	15.53	15.38	15.52	15.55	15.45		
5	QPSK	12	0	15.57	15.33	15.62	15.60	15.75		
5	QPSK	12	7	15.40	15.62	15.60	15.63	15.72		
5	QPSK	12	13	15.62	15.54	15.59	15.74	15.67		
5	QPSK	25	0	15.34	15.60	15.49	15.45	15.47		
5	16QAM	1	0	15.54	15.60	15.40	15.63	15.74		
5	16QAM	1	12	15.28	15.42	15.35	15.31	15.35		
5	16QAM	1	24	15.21	15.27	15.54	15.27	15.44		
5	16QAM	12	0	15.71	15.39	15.37	15.41	15.70		
5	16QAM	12	7	15.48	15.61	15.56	15.75	15.66		
5	16QAM	12	13	15.34	15.28	15.51	15.53	15.59		
5	16QAM	25	0	15.59	15.63	15.64	15.38	15.58		
5	64QAM	1	0	15.44	15.50	15.59	15.43	15.67		
5	64QAM	1	12	15.34	15.24	15.38	15.38	15.41		
5	64QAM	1	24	15.29	15.44	15.23	15.45	15.43		
5	64QAM	12	0	15.69	15.42	15.58	15.49	15.59		
5	64QAM	12	7	15.57	15.66	15.65	15.62	15.68		
5	64QAM	12	13	15.59	15.60	15.61	15.57	15.68		
5	64QAM	25	0	15.52	15.32	15.57	15.38	15.68		
5	256QAM	1	0	15.33	15.49	15.45	15.48	15.56		
5	256QAM	1	12	15.21	15.20	15.10	15.24	15.20		
5	256QAM	1	24	15.62	15.36	15.49	15.38	15.61		
5	256QAM	12	0	15.63	15.48	15.45	15.53	15.65		
5	256QAM	12	7	15.46	15.44	15.29	15.36	15.73		
5	256QAM	12	13	15.48	15.47	15.63	15.41	15.77		
5	256QAM	25	0	15.28	15.34	15.41	15.41	15.25		

Band 42_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990				
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	17.43	17.49	17.48			18	0
20	QPSK	1	49	17.14	17.34	17.30				
20	QPSK	1	99	17.29	17.28	17.09				
20	QPSK	50	0	17.41	17.48	17.46				
20	QPSK	50	24	17.36	17.44</					



### Part270\_n77\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1	15.56	15.61	15.63	17.0	0.0
100	Pl2 BPSK	1	137	15.47	15.62	15.47		
100	Pl2 BPSK	1	211	15.58	15.74	15.89		
100	Pl2 BPSK	135	0	15.46	15.60	15.56	17.0	0.0
100	Pl2 BPSK	135	69	15.56	15.87	15.49	17.0	0.0
100	Pl2 BPSK	135	138	15.56	15.62	15.61	17.0	0.0
100	Pl2 BPSK	210	0	15.58	15.80	15.43	17.0	0.0
100	QPSK	1	1	15.67	15.83	15.83		
100	QPSK	1	137	15.64	15.74	15.60		
100	QPSK	1	211	15.82	15.82	15.88	17.0	0.0
100	QPSK	135	0	15.51	15.58	15.40		
100	QPSK	135	69	15.54	15.80	15.51		
100	QPSK	135	138	15.52	15.58	15.59	17.0	0.0
100	QPSK	270	0	15.80	15.78	15.86	17.0	0.0
100	8QAM	1	1	15.83	15.81	15.83	17.0	0.0
100	8QAM	1	1	15.82	15.74	15.80	17.0	0.0
100	256QAM	1	1	15.80	15.82	15.64	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.64	15.72	15.46	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.48	15.70	15.62	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.52	15.79	15.47	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.48	15.70	15.48	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.64	15.82	15.53	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.64	15.82	15.53	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.60	15.69	15.60	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.49	15.68	15.44	17.0	0.0

### Part270\_n78\_Ant 2

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1		15.75		17.0	0.0
100	Pl2 BPSK	1	137	15.43	15.72	15.72		
100	Pl2 BPSK	1	211	15.42	15.42	15.42		
100	Pl2 BPSK	135	0	15.73	15.82	15.73	17.0	0.0
100	Pl2 BPSK	135	69	15.82	15.82	15.82	17.0	0.0
100	Pl2 BPSK	135	138	15.82	15.82	15.82	17.0	0.0
100	Pl2 BPSK	210	0	15.83	15.83	15.83	17.0	0.0
100	QPSK	1	1	15.87	15.87	15.87		
100	QPSK	1	137	15.82	15.82	15.82		
100	QPSK	1	211	15.83	15.83	15.83	17.0	0.0
100	QPSK	135	0	15.86	15.86	15.86		
100	QPSK	135	69	15.72	15.72	15.72		
100	QPSK	135	138	15.42	15.42	15.42	17.0	0.0
100	QPSK	270	0	15.87	15.87	15.87	17.0	0.0
100	8QAM	1	1	15.82	15.82	15.82	17.0	0.0
100	8QAM	1	1	15.88	15.88	15.88	17.0	0.0
100	256QAM	1	1	15.83	15.83	15.83	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.60	15.70	15.48	17.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	15.49	15.58	15.47	17.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	15.45	15.64	15.56	17.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	15.51	15.72	15.58	17.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.42	15.70	15.63	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	15.47	15.63	15.65	17.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	15.81	15.52	15.60	17.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.48	15.65	15.53	17.0	0.0

### Part270\_n77\_Ant 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1	11.21	11.23	11.20	12.5	0.0
100	Pl2 BPSK	1	137	11.12	11.25	11.11		
100	Pl2 BPSK	1	211	11.26	11.26	11.21		
100	Pl2 BPSK	135	0	11.11	11.23	11.25	12.5	0.0
100	Pl2 BPSK	135	69	10.84	11.02	11.03	12.5	0.0
100	Pl2 BPSK	135	138	11.11	11.16	11.09	12.5	0.0
100	Pl2 BPSK	210	0	10.80	11.06	10.80	12.5	0.0
100	QPSK	1	1	11.16	11.34	11.14		
100	QPSK	1	137	10.95	11.13	11.05		
100	QPSK	1	211	10.88	11.10	11.08	12.5	0.0
100	QPSK	135	0	11.08	11.11	10.94		
100	QPSK	135	69	11.17	11.32	11.05		
100	QPSK	135	138	11.04	11.07	10.88	12.5	0.0
100	QPSK	270	0	11.23	11.30	11.28	12.5	0.0
100	8QAM	1	1	11.30	11.32	11.32	12.5	0.0
100	8QAM	1	1	11.14	11.31	11.32	12.5	0.0
100	256QAM	1	1	11.18	11.16	11.05	12.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	11.19	11.17	11.16	12.5	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	11.09	11.24	11.13	12.5	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	11.08	11.25	11.16	12.5	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	11.15	11.30	11.04	12.5	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	11.06	11.22	11.11	12.5	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	11.01	11.22	11.04	12.5	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	11.08	11.32	11.00	12.5	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	11.18	11.31	10.99	12.5	0.0



Part270_n78_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	11.33						
100	P12 BPSK	1	137	11.35			12.5	0.0		
100	P12 BPSK	1	271	11.29						
100	P12 BPSK	135	0	11.28			12.5	0.0		
100	P12 BPSK	135	69	11.30			12.5	0.0		
100	P12 BPSK	135	138	11.27			12.5	0.0		
100	P12 BPSK	270	0	11.24						
100	QPSK	1	1	11.37						
100	QPSK	1	137	11.36			12.5	0.0		
100	QPSK	1	271	11.29						
100	QPSK	135	0	11.24						
100	QPSK	135	69	11.33			12.5	0.0		
100	QPSK	135	138	11.17						
100	QPSK	270	0	11.25			12.5	0.0		
100	16QAM	1	1	11.30			12.5	0.0		
100	64QAM	1	1	11.28			12.5	0.0		
100	256QAM	1	1	11.21			12.5	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	64988	65000	65032	Tune-up limit (dB)	MPR		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dB)	MPR		
Channel										
Frequency (MHz)										
70	QPSK	1	1	11.22	11.12	11.17	12.5	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	64834	65000	65166	Tune-up limit (dB)	MPR		
Channel										
Frequency (MHz)										
50	QPSK	1	1	3723.01	3750	3774.99	Tune-up limit (dB)	MPR		
Channel										
Frequency (MHz)										
40	QPSK	1	1	11.17	11.19	11.16	12.5	0.0		
Channel										
Frequency (MHz)										
30	QPSK	1	1	64734	65000	65266	Tune-up limit (dB)	MPR		
Channel										
Frequency (MHz)										
20	QPSK	1	1	11.23	11.14	11.22	12.5	0.0		

Part270_n77_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	19.41	19.43	19.31				
100	P12 BPSK	1	137	19.46	19.52	19.27	21.0	0.0		
100	P12 BPSK	1	271	19.27	19.34	19.08				
100	P12 BPSK	135	0	19.60	19.63	19.54	20.5	0.5		
100	P12 BPSK	135	69	19.37	19.42	19.36	21.0	0.0		
100	P12 BPSK	135	138	19.51	19.59	19.52	20.5	0.5		
100	P12 BPSK	270	0	19.58	19.56	19.64				
100	QPSK	1	1	19.25	19.28	19.45				
100	QPSK	1	137	19.15	19.03	19.01	21.0	0.0		
100	QPSK	1	271	19.18	19.05	19.00				
100	QPSK	135	0	19.21	19.37	19.20				
100	QPSK	135	69	19.10	19.53	19.35	21.0	0.0		
100	QPSK	135	138	19.35	19.29	19.11				
100	QPSK	270	0	19.27	19.46	19.20	20.0	1.0		
100	16QAM	1	1	19.24	19.52	19.17	20.0	1.0		
100	64QAM	1	1	19.67	19.96	19.52	19.5	2.5		
100	256QAM	1	1	19.09	19.33	19.25	19.5	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	64934	65000	65066	Tune-up limit (dB)	MPR		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3740.01	3840	3939.99	Tune-up limit (dB)	MPR		
Channel										
Frequency (MHz)										
70	QPSK	1	1	19.56	19.55	19.41	21.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.52	19.47	19.43	21.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	64834	65000	65166	Tune-up limit (dB)	MPR		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3723.01	3840	3944.99	Tune-up limit (dB)	MPR		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.52	19.45	19.48	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.50	19.54	19.49	21.0	0.0		

Part270_n78_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq.	Power Middle Ch./ Freq.	Power High Ch./ Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	19.32						
100	P12 BPSK	1	137	19.23			21.0	0.0		
100	P12 BPSK	1	271	19.25						
100	P12 BPSK	135	0	19.17			20.5	0.5		
100	P12 BPSK	135	69	19.22			21.0	0.0		
100	P12 BPSK	135	138	19.29			20.5	0.5		
100	P12 BPSK	270	0	19.22						
100	QPSK	1	1	19.42						
100	QPSK	1	137	19.33			21.0	0.0		
100	QPSK	1	271	19.22						
100	QPSK	135	0	19.33						
100	QPSK	135	69	19.22			21.0	0.0		
100	QPSK	135	138	19.29						
100	QPSK	270	0	19.41			20.0	1.0		
100	16QAM	1	1	19.29			20.0	1.0		
100	64QAM	1	1	19.75			19.5	2.5		
100	256QAM	1	1	19.16			19.5	4.5		
Channel										
Frequency (MHz)										
50	QPSK	1	1	64998	65000	65032	Tune-up limit (dB)	MPR		
Channel										
Frequency (MHz)										
80	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dB)	MPR		
Channel										
Frequency (MHz)										
70	QPSK	1	1	19.33	19.32	19.31	21.0	0.0		
Channel										
Frequency (MHz)										
60	QPSK	1	1	19.33	19.33	19.19	21.0	0.0		
Channel										
Frequency (MHz)										
50	QPSK	1	1	64834	65000	65166	Tune-up limit (dB)	MPR		
Channel										
Frequency (MHz)										
40	QPSK	1	1	3723.01	3750	3774.99	Tune-up limit (dB)	MPR		
Channel										
Frequency (MHz)										
30	QPSK	1	1	19.15	19.41	19.14	21.0	0.0		
Channel										
Frequency (MHz)										
20	QPSK	1	1	19.32	19.25	19.29	21.0	0.0		



Part270_n77_Ant 7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1	16.15	16.18	16.05	17.0	0.0
100	Pl2 BPSK	1	137	16.13	16.12	16.01		
100	Pl2 BPSK	1	211	15.97	16.15	16.00		
100	Pl2 BPSK	135	0	16.06	16.05	16.02	17.0	0.0
100	Pl2 BPSK	135	69	16.00	16.07	15.92	17.0	0.0
100	Pl2 BPSK	135	138	16.01	16.04	15.92	17.0	0.0
100	Pl2 BPSK	270	0	15.97	16.03	16.05	17.0	0.0
100	QPSK	1	1	16.05	16.21	15.12		
100	QPSK	1	137	15.95	16.10	15.96		
100	QPSK	1	271	15.93	16.10	16.07	17.0	0.0
100	QPSK	135	0	16.06	15.97	16.06		
100	QPSK	135	69	16.03	16.16	16.05		
100	QPSK	135	138	15.96	16.02	15.93	17.0	0.0
100	QPSK	270	0	15.99	16.15	16.09	17.0	0.0
100	16QAM	1	1	16.01	16.19	16.08	17.0	0.0
100	16QAM	1	1	16.02	16.20	16.12	17.0	0.0
100	256QAM	1	1	14.72	14.77	14.78	16.5	0.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	64968	65000	65232	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	64934	65000	65066	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	3740.01	3840	3939.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	64968	65000	65332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	15.86	16.19	16.06	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	64934	65000	65366	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	3720.02	3840	3949.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	15.88	16.14	16.05	17.0	0.0

Part270_n78_Ant 7								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1		16.18		17.0	0.0
100	Pl2 BPSK	1	137		16.13			
100	Pl2 BPSK	1	211		16.12			
100	Pl2 BPSK	135	0	15.96			17.0	0.0
100	Pl2 BPSK	135	69	15.99			17.0	0.0
100	Pl2 BPSK	135	138	16.06			17.0	0.0
100	Pl2 BPSK	270	0	15.99			17.0	0.0
100	QPSK	1	1	16.24				
100	QPSK	1	137	16.12				
100	QPSK	1	271	16.03			17.0	0.0
100	QPSK	135	0	16.02				
100	QPSK	135	69	16.15				
100	QPSK	135	138	15.99			17.0	0.0
100	QPSK	270	0	16.17			17.0	0.0
100	16QAM	1	1	16.16			17.0	0.0
100	16QAM	1	1	16.12			17.0	0.0
100	256QAM	1	1		14.73		16.5	0.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	64968	65000	65332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	QPSK	1	1	64934	65000	65066	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
70	QPSK	1	1	3740.01	3750	3759.99	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
60	QPSK	1	1	64968	65000	65332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
50	QPSK	1	1	16.16	16.21	16.11	17.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	64968	65000	65332	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
30	QPSK	1	1	3720.02	3750	3759.98	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	1	16.06	16.03	16.10	17.0	0.0



### Downlink CA Power

2CC														
Configure	CA Configuration (BCS)	PCC							SCC				Power	
		LTE Band	BW (MHz)	UL Channel	UL Freq. (MHz)	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	CA_41A-42A	41	20	40620	2593	QPSK	1	0	42	20	42590	3500	23.23	23.36

3CC																		
Configure	CA Configuration (BCS)	PCC							SCC1				SCC2			Power		
		LTE Band	BW (MHz)	UL Channel	UL Freq. (MHz)	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	CA_41A-42C	41	20	40620	2593	QPSK	1	0	42	20	42590	3500	42	20	42788	3519.8	23.30	23.36
	CA_41C-42A	41	20	40620	2593	QPSK	1	0	41	20	40818	2612.8	42	20	42590	3500	23.26	23.36

4CC																						
Configure	CA Configuration (BCS)	PCC							SCC1				SCC2			SCC3			Power			
		LTE Band	BW (MHz)	UL Channel	UL Freq. (MHz)	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	LTE Band	BW (MHz)	DL Channel	DL Freq. (MHz)	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)
Inter-Band	CA_41C-42C	41	20	40620	2593	QPSK	1	0	41	20	40818	2612.8	42	20	42590	3500	42	20	42788	3519.8	23.32	23.36







**BT BR/EDR**

Mode	Channel	Frequency (MHz)	Average power (dBm)									Tune-up Limit
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	11.44	12.43	12.55	9.23	9.06	8.65	9.36	9.13	8.77	13.00
	CH 39	2441	11.57	11.80	11.89	9.02	8.70	8.29	9.43	9.04	8.88	
	CH 78	2480	11.79	12.07	12.36	9.41	9.18	8.77	9.55	9.16	8.98	

**BT LE 1M**

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	1.49
	CH 19	2440	1.58
	CH 39	2480	2.61
Tune-up Limit			3.00

**BT LE 2M**

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	1.49	1.45
	CH 19	2440	1.58	1.61
	CH 39	2480	2.61	2.64
Tune-up Limit			3.00	