

Full Power

GSM850 Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	188	251		128	188	251	
TX Channel	824.2	836.4	848.8	824.2	836.4	848.8		
Frequency (MHz)	824.2	836.4	848.8	824.2	836.4	848.8		
GSM 1 Tx slot	32.35	32.24	32.10	33.50	23.35	23.24	23.10	24.50
GPRS 1 Tx slot	32.33	32.21	32.05	33.50	23.33	23.21	23.05	24.50
GPRS 2 Tx slots	30.52	30.32	30.09	31.50	24.52	24.32	24.09	25.50
GPRS 3 Tx slots	29.02	28.83	28.79	30.00	24.76	24.57	24.53	25.74
GPRS 4 Tx slots	27.71	28.01	27.70	29.00	24.71	25.01	24.70	26.00

Band		WCDMA V Ant 0			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.49	23.54	23.51	25.00
3GPP Rel 99	RMC 12.2Kbps	23.59	23.68	23.53	25.00
3GPP Rel 6	HSDPA Subtest-1	22.69	22.76	22.55	24.00
3GPP Rel 6	HSDPA Subtest-2	22.70	22.80	22.47	24.00
3GPP Rel 6	HSDPA Subtest-3	21.99	22.06	22.13	23.50
3GPP Rel 6	HSDPA Subtest-4	22.06	22.07	22.05	23.50
3GPP Rel 6	HSUPA Subtest-1	22.59	22.72	22.51	24.00
3GPP Rel 6	HSUPA Subtest-2	20.47	20.66	20.52	22.00
3GPP Rel 6	HSUPA Subtest-3	21.63	21.78	21.59	23.00
3GPP Rel 6	HSUPA Subtest-4	20.68	20.64	20.52	22.00
3GPP Rel 6	HSUPA Subtest-5	22.57	22.76	22.62	24.00



GSM1900 Ant 1 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.83	28.33	28.35	29.50	19.83	19.33	19.35	20.50
GPRS 1 Tx slots	28.81	28.31	28.34	29.50	19.81	19.31	19.34	20.50
GPRS 2 Tx slots	28.82	28.44	28.51	27.50	20.82	20.44	20.51	21.50
GPRS 3 Tx slots	25.41	25.43	25.16	26.50	21.15	21.17	20.80	22.24
GPRS 4 Tx slots	23.63	23.22	23.16	24.50	20.63	20.22	20.16	21.50



Band 42 FCC Part27Q									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	22.94	23.13	22.92	24.5	0	
20	QPSK	1	49	22.83	23.02	23.03			
20	QPSK	1	99	22.92	22.96	23.01			
20	QPSK	50	0	21.97	22.13	21.92	23.5	1	
20	QPSK	50	24	21.97	22.12	22.06			
20	QPSK	50	50	22.09	22.09	22.01			
20	QPSK	100	0	21.95	22.15	22.14	23.5	1	
20	16QAM	1	0	22.05	22.05	21.99			
20	16QAM	1	49	22.01	21.87	21.95			
20	16QAM	1	99	21.95	22.03	21.94	22.5	2	
20	16QAM	50	0	20.94	21.03	21.04			
20	16QAM	50	24	21.06	21.03	20.84			
20	16QAM	50	50	20.86	20.99	20.94	22.5	2	
20	16QAM	100	0	20.96	20.84	21.08			
20	64QAM	1	0	21.02	21.04	21.00			
20	64QAM	1	49	20.87	20.86	21.02	22.5	2	
20	64QAM	1	99	21.01	20.84	20.89			
20	64QAM	50	0	19.98	19.94	19.90			
20	64QAM	50	24	19.99	20.04	19.96	21.5	3	
20	64QAM	50	50	19.99	19.87	19.86			
20	64QAM	100	0	20.03	19.86	19.90			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	22.89	23.05	22.81	24.5	0	
15	QPSK	1	37	22.82	22.81	22.88			
15	QPSK	1	74	22.78	22.87	22.86			
15	QPSK	36	0	21.78	22.12	21.90	23.5	1	
15	QPSK	36	20	21.91	22.12	21.90			
15	QPSK	36	39	21.98	22.01	22.02			
15	QPSK	75	0	21.94	22.00	21.94	23.5	1	
15	16QAM	1	0	21.97	21.86	21.92			
15	16QAM	1	37	21.99	21.86	21.82			
15	16QAM	1	74	21.77	22.02	21.84	22.5	2	
15	16QAM	36	0	20.74	20.96	20.83			
15	16QAM	36	20	21.07	20.95	20.85			
15	16QAM	36	39	20.70	20.93	20.87	22.5	2	
15	16QAM	75	0	20.85	20.66	20.95			
15	64QAM	1	0	21.02	20.94	21.00			
15	64QAM	1	37	20.85	20.78	20.91	22.5	2	
15	64QAM	1	74	20.84	20.86	20.87			
15	64QAM	36	0	19.94	19.85	19.72			
15	64QAM	36	20	19.77	20.00	19.83	21.5	3	
15	64QAM	36	39	19.86	19.67	19.75			
15	64QAM	75	0	20.04	19.71	19.71			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	22.75	23.11	22.73	24.5	0	
10	QPSK	1	25	22.78	22.87	23.02			
10	QPSK	1	49	22.73	22.74	22.79			
10	QPSK	25	0	21.95	21.91	21.82	23.5	1	
10	QPSK	25	12	21.93	22.04	22.06			
10	QPSK	25	25	22.08	21.88	21.92			
10	QPSK	50	0	21.92	22.13	22.07	23.5	1	
10	16QAM	1	0	21.88	21.92	21.77			
10	16QAM	1	25	21.85	21.68	21.77			
10	16QAM	1	49	21.84	21.98	21.73	22.5	2	
10	16QAM	25	0	20.78	20.82	20.93			
10	16QAM	25	12	20.99	20.97	20.75			
10	16QAM	25	25	20.84	20.99	20.74	22.5	2	
10	16QAM	50	0	20.94	20.77	20.88			
10	64QAM	1	0	20.90	20.83	20.91			
10	64QAM	1	25	20.74	20.81	20.92	22.5	2	
10	64QAM	1	49	20.94	20.76	20.89			
10	64QAM	25	0	19.81	19.86	19.76			
10	64QAM	25	12	19.95	19.87	19.89	21.5	3	
10	64QAM	25	25	19.85	19.72	19.69			
10	64QAM	50	0	19.96	19.79	19.78			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	22.82	22.94	22.86	24.5	0	
5	QPSK	1	12	22.70	23.02	22.91			
5	QPSK	1	24	22.76	22.96	22.96			
5	QPSK	12	0	21.77	22.08	21.84	23.5	1	
5	QPSK	12	7	21.86	21.91	21.98			
5	QPSK	12	13	22.07	21.99	21.98			
5	QPSK	25	0	21.73	22.14	22.14	23.5	1	
5	16QAM	1	0	21.92	22.02	21.90			
5	16QAM	1	12	21.86	21.87	21.93			
5	16QAM	1	24	21.85	22.03	21.81	22.5	2	
5	16QAM	12	0	20.83	20.90	20.88			
5	16QAM	12	7	20.89	20.85	20.83			
5	16QAM	12	13	20.74	20.89	20.79	22.5	2	
5	16QAM	25	0	20.85	20.71	20.90			
5	64QAM	1	0	20.99	21.00	20.80			
5	64QAM	1	12	20.77	20.77	20.92	22.5	2	
5	64QAM	1	24	20.84	20.65	20.86			
5	64QAM	12	0	19.89	19.78	19.88			
5	64QAM	12	7	19.83	19.98	19.86	21.5	3	
5	64QAM	12	13	19.83	19.76	19.84			
5	64QAM	25	0	19.89	19.66	19.77			

GSM850 Ant 4	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	32.52	32.23	32.21	33.50	23.52	23.23	23.21	24.50
GPRS 1 Tx slots	32.50	32.20	32.17	33.50	23.50	23.20	23.17	24.50
GPRS 2 Tx slots	30.49	30.12	30.10	31.50	24.49	24.12	24.10	25.50
GPRS 3 Tx slots	28.91	28.50	28.53	30.00	24.65	24.24	24.27	25.74
GPRS 4 Tx slots	27.84	27.86	27.60	29.00	24.84	24.86	24.60	26.00

GSM1900 Ant 4	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	28.52	28.20	28.33	29.50	19.52	19.20	19.33	20.50
GPRS 1 Tx slots	28.50	28.17	28.30	29.50	19.50	19.17	19.30	20.50
GPRS 2 Tx slots	26.39	25.93	26.14	27.50	20.39	19.93	20.14	21.50
GPRS 3 Tx slots	25.01	25.05	24.95	26.50	20.75	20.79	20.69	22.24
GPRS 4 Tx slots	23.04	22.83	22.83	24.50	20.04	19.93	19.83	21.50

Band	WCDMA V Ant 4			Tune-up Limit (dBm)	
	TX Channel	4132	4182		4233
Rx Channel	4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2kbps	23.26	23.29	23.27	25.00
3GPP Rel 99	RMC 12.2kbps	23.30	23.34	23.29	25.00
3GPP Rel 6	HSDPA Subtest-1	22.32	22.28	22.35	24.00
3GPP Rel 6	HSDPA Subtest-2	22.38	22.34	22.33	24.00
3GPP Rel 6	HSDPA Subtest-3	21.84	21.90	21.77	23.50
3GPP Rel 6	HSDPA Subtest-4	21.91	21.93	21.73	23.50
3GPP Rel 6	HSUPA Subtest-1	22.37	22.36	22.34	24.00
3GPP Rel 6	HSUPA Subtest-2	20.38	20.38	20.31	22.00
3GPP Rel 6	HSUPA Subtest-3	21.34	21.27	21.37	23.00
3GPP Rel 6	HSUPA Subtest-4	20.20	20.41	20.25	22.00
3GPP Rel 6	HSUPA Subtest-5	22.20	22.25	22.26	24.00



Band 38 Ant 4

Channel	Power Low Co. (Freq)	Power Middle Co. (Freq)	Power High Co. (Freq)	Tune-up limit (dBm)	MPR (dB)
38	22.39	22.46	22.42	24	0
39	22.39	22.46	22.42	24	0
40	22.29	22.34	22.25	23	1
41	21.22	21.33	21.19	23	1
42	21.15	21.25	21.16	22	2
43	21.09	21.22	21.18	21	3
44	21.18	21.23	21.16	22	2
45	20.65	20.16	20.05	22	2
46	20.02	20.12	20.06	22	2
47	20.17	20.25	20.10	22	2
48	20.01	20.11	20.02	22	2
49	20.67	20.76	20.66	22	2
50	20.59	20.68	20.61	21	3
51	20.69	20.83	20.69	21	3
52	19.06	18.17	18.03	21	3
53	18.19	18.25	18.19	21	3
54	18.03	18.12	18.07	21	3
55	18.11	18.24	18.18	21	3

Band 41 Ant 4

Channel	Power Low Co. (Freq)	Power Middle Co. (Freq)	Power High Co. (Freq)	Tune-up limit (dBm)	MPR (dB)
41	22.51	22.47	22.54	24	0
42	22.35	22.32	22.38	24	0
43	22.13	22.19	22.28	23	1
44	21.60	21.61	21.74	23	1
45	21.04	21.06	21.70	23	1
46	21.48	21.48	21.59	23	1
47	21.84	21.56	21.70	23	1
48	21.03	21.06	21.71	23	1
49	21.54	21.07	21.06	23	1
50	21.47	21.49	21.87	23	1
51	20.64	20.63	20.74	22	2
52	20.71	20.68	20.74	22	2
53	20.73	20.83	20.78	22	2
54	20.55	20.58	20.67	22	2
55	21.12	21.10	21.24	22	2
56	21.14	21.22	21.39	21	3
57	21.01	21.02	21.14	21	3
58	19.83	19.86	19.77	21	3
59	19.00	19.03	19.08	21	3
60	19.61	19.63	19.73	21	3
61	19.54	19.54	19.61	21	3

Band 41 HPUE Ant 4

Channel	Power Low Co. (Freq)	Power Middle Co. (Freq)	Power High Co. (Freq)	Tune-up limit (dBm)	MPR (dB)
41	24.41	24.51	24.56	26	0
42	24.38	24.38	24.38	26	0
43	24.24	24.48	24.18	25	1
44	23.19	23.43	23.47	25	1
45	23.19	23.32	23.11	25	1
46	23.22	23.39	23.14	25	1
47	23.11	23.40	23.44	25	1
48	23.42	23.63	23.21	25	1
49	23.29	23.53	23.42	25	1
50	22.35	22.42	22.12	24	2
51	22.34	22.47	22.19	24	2
52	22.40	22.56	22.32	24	2
53	22.38	22.56	22.15	24	2
54	22.03	22.05	22.14	23	3
55	22.40	22.56	22.12	23	3
56	21.20	21.54	21.22	23	3
57	21.20	21.44	21.32	23	3
58	21.21	21.45	21.15	23	3
59	21.34	21.43	21.32	23	3



Receiver On Power

GSM850 Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	128	169	251		128	169	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.35	32.24	32.10	33.50	23.35	23.24	23.10	24.50
GPRS 1 Tx slot	32.33	32.21	32.05	33.50	23.33	23.21	23.05	24.50
GPRS 2 Tx slots	30.52	30.32	30.09	31.50	24.52	24.32	24.09	25.50
GPRS 3 Tx slots	29.02	28.83	28.79	30.00	24.76	24.57	24.53	25.74
GPRS 4 Tx slots	27.71	28.01	27.70	29.00	24.71	25.01	24.70	26.00

Band	WCDMA V Ant 0			Tune-up Limit (dBm)	
	4132	4182	4233		
TX Channel	4357	4407	4458		
Rx Channel	4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	23.49	23.54	23.51	25.00
3GPP Rel 99	RMC 12.2Kbps	23.59	23.68	23.53	25.00
3GPP Rel 6	HSDPA Subtest-1	22.69	22.76	22.55	24.00
3GPP Rel 6	HSDPA Subtest-2	22.70	22.80	22.47	24.00
3GPP Rel 6	HSDPA Subtest-3	21.99	22.06	22.13	23.50
3GPP Rel 6	HSDPA Subtest-4	22.06	22.07	22.05	23.50
3GPP Rel 6	HSUPA Subtest-1	22.59	22.72	22.51	24.00
3GPP Rel 6	HSUPA Subtest-2	20.47	20.66	20.52	22.00
3GPP Rel 6	HSUPA Subtest-3	21.63	21.78	21.59	23.00
3GPP Rel 6	HSUPA Subtest-4	20.68	20.64	20.52	22.00
3GPP Rel 6	HSUPA Subtest-5	22.57	22.76	22.62	24.00



GSM1900 Ant 1 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.83	28.33	28.35	29.50	19.83	19.33	19.35	20.50
GPRS 1 Tx slot	28.81	28.31	28.34	29.50	19.81	19.31	19.34	20.50
GPRS 2 Tx slots	26.82	26.44	26.51	27.50	20.82	20.44	20.51	21.50
GPRS 3 Tx slots	25.41	25.43	25.16	26.50	21.15	21.17	20.90	22.24
GPRS 4 Tx slots	23.63	23.22	23.16	24.50	20.63	20.22	20.16	21.50



Band 2 Ant 1

Table with columns: 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). Contains multiple channel data blocks for frequencies 1720-1910, 1857.5-1912.5, 1862.5-1917.5, 1881.5-1918.5, and 1890-1909.3.

Band 4 Ant 1

Table with columns: 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). Contains multiple channel data blocks for frequencies 2025-2032.5, 2075-2147.5, 2092.5-2175, and 1997.5-2038.5.

Band 7 Ant 1

Table with columns: 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). Contains multiple channel data blocks for frequencies 2085-2136, 2075-2147.5, 2092.5-2175, 2077.5-2142.5, and 2502.5-2567.5.



Band 42 FCC Part27Q									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	20.11	20.14	20.06	21.5	0	
20	QPSK	1	49	19.98	20.04	19.97			
20	QPSK	1	99	19.92	20.05	20.00			
20	QPSK	50	0	20.02	20.10	19.97	21.5	0	
20	QPSK	50	24	19.99	20.04	19.90			
20	QPSK	50	50	19.90	19.95	19.93			
20	QPSK	100	0	19.90	19.99	19.88	21.5	0	
20	16QAM	1	0	20.02	20.07	20.09			
20	16QAM	1	49	20.04	19.98	20.05			
20	16QAM	1	99	19.94	19.99	19.99	21.5	0	
20	16QAM	50	0	20.10	19.94	19.94			
20	16QAM	50	24	19.97	20.06	20.01			
20	16QAM	50	50	19.97	19.94	19.99	21.5	0	
20	16QAM	100	0	20.01	20.07	20.13			
20	64QAM	1	0	19.97	20.06	20.07			
20	64QAM	1	49	19.94	19.97	19.86	21.5	0	
20	64QAM	1	99	20.04	20.02	19.93			
20	64QAM	50	0	19.97	20.02	20.07			
20	64QAM	50	24	19.98	20.05	19.98	21.5	0	
20	64QAM	50	50	19.94	20.02	19.91			
20	64QAM	100	0	20.11	20.04	19.89			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	20.01	20.07	19.97	21.5	0	
15	QPSK	1	37	19.93	19.97	19.89			
15	QPSK	1	74	19.84	19.92	19.90			
15	QPSK	36	0	19.88	20.02	19.84	21.5	0	
15	QPSK	36	20	19.88	19.90	19.77			
15	QPSK	36	39	19.80	19.89	19.85			
15	QPSK	75	0	19.75	19.92	19.83	21.5	0	
15	16QAM	1	0	19.93	19.93	20.04			
15	16QAM	1	37	19.91	19.83	19.94			
15	16QAM	1	74	19.88	19.90	19.90	21.5	0	
15	16QAM	36	0	19.96	19.88	19.89			
15	16QAM	36	20	19.91	20.00	19.89			
15	16QAM	36	39	19.90	19.86	19.89	21.5	0	
15	16QAM	75	0	19.90	19.98	19.98			
15	64QAM	1	0	19.82	19.95	19.95			
15	64QAM	1	37	19.83	19.91	19.80	21.5	0	
15	64QAM	1	74	19.97	19.95	19.86			
15	64QAM	36	0	19.92	19.96	19.93			
15	64QAM	36	20	19.86	19.96	19.84	21.5	0	
15	64QAM	36	39	19.88	19.94	19.84			
15	64QAM	75	0	20.01	19.89	19.79			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	20.02	20.00	20.01	21.5	0	
10	QPSK	1	25	19.89	19.94	19.83			
10	QPSK	1	49	19.77	19.96	19.87			
10	QPSK	25	0	19.94	19.96	19.85	21.5	0	
10	QPSK	25	12	19.93	19.96	19.75			
10	QPSK	25	25	19.80	19.85	19.84			
10	QPSK	50	0	19.79	19.92	19.76	21.5	0	
10	16QAM	1	0	19.92	19.97	20.01			
10	16QAM	1	25	19.93	19.88	19.99			
10	16QAM	1	49	19.88	19.80	19.91	21.5	0	
10	16QAM	25	0	20.01	19.87	19.88			
10	16QAM	25	12	19.82	19.96	19.92			
10	16QAM	25	25	19.82	19.84	19.88	21.5	0	
10	16QAM	50	0	19.88	20.01	19.99			
10	64QAM	1	0	19.82	20.01	19.93			
10	64QAM	1	25	19.88	19.85	19.80	21.5	0	
10	64QAM	1	49	19.91	19.94	19.81			
10	64QAM	25	0	19.85	19.97	19.96			
10	64QAM	25	12	19.93	19.96	19.83	21.5	0	
10	64QAM	25	25	19.80	19.94	19.85			
10	64QAM	50	0	20.01	19.98	19.81			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	20.00	19.99	20.01	21.5	0	
5	QPSK	1	12	19.83	19.96	19.83			
5	QPSK	1	24	19.86	19.94	19.85			
5	QPSK	12	0	19.95	20.00	19.83	21.5	0	
5	QPSK	12	7	19.93	19.96	19.84			
5	QPSK	12	13	19.83	19.84	19.88			
5	QPSK	25	0	19.84	19.84	19.75	21.5	0	
5	16QAM	1	0	19.97	19.96	19.95			
5	16QAM	1	12	19.92	19.87	19.96			
5	16QAM	1	24	19.85	19.85	19.85	21.5	0	
5	16QAM	12	0	20.03	19.85	19.82			
5	16QAM	12	7	19.86	19.99	19.90			
5	16QAM	12	13	19.88	19.80	19.85	21.5	0	
5	16QAM	25	0	19.88	19.93	20.01			
5	64QAM	1	0	19.89	19.97	19.96			
5	64QAM	1	12	19.82	19.83	19.77	21.5	0	
5	64QAM	1	24	19.92	19.88	19.82			
5	64QAM	12	0	19.84	19.91	19.92			
5	64QAM	12	7	19.87	19.98	19.86	21.5	0	
5	64QAM	12	13	19.88	19.90	19.81			
5	64QAM	25	0	20.02	19.90	19.77			



GSM850 Ant 4	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	123	169	251		123	169	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	29.54	29.25	29.20	30.50	19.54	29.50	20.20	21.50
GSM 1 Tx slot	29.50	29.20	29.14	30.50	19.50	29.50	20.14	21.50
GPRS 1 Tx slots	27.51	27.14	27.08	28.50	20.51	27.50	21.08	22.50
GPRS 2 Tx slots	26.91	25.48	25.55	27.00	20.65	26.00	21.29	22.74
GPRS 3 Tx slots	24.86	24.89	24.75	26.00	20.86	25.00	21.75	23.00
GPRS 4 Tx slots								

GSM1900 Ant 4	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)	24.99	24.70	24.91	26.00	15.99	15.70	15.81	17.00
GSM 1 Tx slot	24.98	24.66	24.88	26.00	15.98	15.66	15.88	17.00
GPRS 1 Tx slots	22.94	22.59	22.67	24.00	16.94	16.59	16.67	18.00
GPRS 2 Tx slots	21.52	21.57	21.49	23.00	17.26	17.31	17.23	18.74
GPRS 3 Tx slots	19.48	19.41	19.31	21.00	16.48	16.41	16.31	18.00
GPRS 4 Tx slots								

Band	WCDMA V Ant 4			Tune-up Limit (dBm)	
	4132	4182	4233		
TX Channel	4357	4407	4458		
Rx Channel	826.4	836.4	846.6		
Frequency (MHz)					
3GPP Rel 99	AMR 12.2Kbps	19.67	19.83	19.79	21.50
3GPP Rel 99	RMC 12.2Kbps	19.85	19.87	19.75	21.50
3GPP Rel 6	HSDPA Subtest-1	18.80	18.86	18.93	20.50
3GPP Rel 6	HSDPA Subtest-2	18.91	18.88	18.86	20.50
3GPP Rel 6	HSDPA Subtest-3	18.40	18.43	18.21	20.00
3GPP Rel 6	HSDPA Subtest-4	18.39	18.39	18.37	20.00
3GPP Rel 6	HSUPA Subtest-1	16.92	16.84	16.91	20.50
3GPP Rel 6	HSUPA Subtest-2	16.83	16.75	16.89	18.50
3GPP Rel 6	HSUPA Subtest-3	17.80	17.71	17.88	19.50
3GPP Rel 6	HSUPA Subtest-4	16.66	16.95	16.70	18.50
3GPP Rel 6	HSUPA Subtest-5	18.58	18.72	18.81	20.50

Receiver Off Power

GSM850 Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)								
GSM 1 Tx slot	32.35	32.24	32.10	33.50	23.35	23.24	23.10	24.50
GPRS 1 Tx slot	32.33	32.21	32.05	33.50	23.33	23.21	23.05	24.50
GPRS 2 Tx slots	30.52	30.32	30.09	31.50	24.52	24.32	24.09	25.50
GPRS 3 Tx slots	29.02	28.83	28.79	30.00	24.76	24.57	24.53	25.74
GPRS 4 Tx slots	27.71	28.01	27.70	29.00	24.71	25.01	24.70	26.00

Band	WCDMA V Ant 0	4132	4182	4233	Tune-up Limit (dBm)
TX Channel					
Rx Channel					
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	23.49	23.54	23.51	25.00
3GPP Rel 99	RMC 12.2Kbps	23.59	23.68	23.53	25.00
3GPP Rel 6	HSDPA Subtest-1	22.69	22.76	22.55	24.00
3GPP Rel 6	HSDPA Subtest-2	22.70	22.80	22.47	24.00
3GPP Rel 6	HSDPA Subtest-3	21.89	22.06	22.13	23.50
3GPP Rel 6	HSDPA Subtest-4	22.06	22.07	22.05	23.50
3GPP Rel 6	HSUPA Subtest-1	22.59	22.72	22.51	24.00
3GPP Rel 6	HSUPA Subtest-2	20.47	20.66	20.52	22.00
3GPP Rel 6	HSUPA Subtest-3	21.63	21.78	21.59	23.00
3GPP Rel 6	HSUPA Subtest-4	20.68	20.64	20.52	22.00
3GPP Rel 6	HSUPA Subtest-5	22.57	22.76	22.62	24.00



GSM1900 Ant 1 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.83	28.33	28.35	29.50	19.83	19.33	19.35	20.50
GPRS 1 Tx slot	28.81	28.31	28.34	29.50	19.81	19.31	19.34	20.50
GPRS 2 Tx slots	26.82	26.44	26.51	27.50	20.82	20.44	20.51	21.50
GPRS 3 Tx slots	25.41	25.43	25.16	26.50	21.15	21.17	20.90	22.24
GPRS 4 Tx slots	23.63	23.22	23.16	24.50	20.63	20.22	20.16	21.50



Band 42 FCC Part27Q									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	19.56	19.62	19.55	21	0	
20	QPSK	1	49	19.55	19.53	19.53			
20	QPSK	1	99	19.45	19.50	19.52			
20	QPSK	50	0	19.53	19.58	19.46	21	0	
20	QPSK	50	24	19.51	19.54	19.44			
20	QPSK	50	50	19.42	19.45	19.44			
20	QPSK	100	0	19.48	19.54	19.45	21	0	
20	16QAM	1	0	19.53	19.55	19.56			
20	16QAM	1	49	19.59	19.49	19.55			
20	16QAM	1	99	19.49	19.50	19.44	21	0	
20	16QAM	50	0	19.56	19.44	19.45			
20	16QAM	50	24	19.41	19.61	19.53			
20	16QAM	50	50	19.42	19.47	19.48	21	0	
20	16QAM	100	0	19.47	19.54	19.59			
20	64QAM	1	0	19.48	19.61	19.50			
20	64QAM	1	49	19.46	19.49	19.41	21	0	
20	64QAM	1	99	19.53	19.56	19.43			
20	64QAM	50	0	19.47	19.51	19.58			
20	64QAM	50	24	19.49	19.53	19.51	21	0	
20	64QAM	50	50	19.48	19.46	19.45			
20	64QAM	100	0	19.58	19.51	19.35			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	19.47	19.52	19.46	21	0	
15	QPSK	1	37	19.45	19.39	19.41			
15	QPSK	1	74	19.37	19.43	19.39			
15	QPSK	36	0	19.45	19.43	19.33	21	0	
15	QPSK	36	20	19.43	19.42	19.33			
15	QPSK	36	39	19.30	19.36	19.34			
15	QPSK	75	0	19.37	19.39	19.36	21	0	
15	16QAM	1	0	19.40	19.44	19.49			
15	16QAM	1	37	19.53	19.41	19.42			
15	16QAM	1	74	19.37	19.38	19.31	21	0	
15	16QAM	36	0	19.49	19.31	19.37			
15	16QAM	36	20	19.30	19.48	19.46			
15	16QAM	36	39	19.31	19.35	19.35	21	0	
15	16QAM	75	0	19.32	19.45	19.51			
15	64QAM	1	0	19.37	19.49	19.39			
15	64QAM	1	37	19.31	19.40	19.32	21	0	
15	64QAM	1	74	19.47	19.45	19.34			
15	64QAM	36	0	19.37	19.43	19.51			
15	64QAM	36	20	19.40	19.39	19.44	21	0	
15	64QAM	36	39	19.42	19.39	19.37			
15	64QAM	75	0	19.46	19.38	19.26			
Channel				42140	42590	43040	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	19.49	19.54	19.46	21	0	
10	QPSK	1	25	19.43	19.48	19.45			
10	QPSK	1	49	19.32	19.37	19.37			
10	QPSK	25	0	19.39	19.50	19.41	21	0	
10	QPSK	25	12	19.42	19.42	19.38			
10	QPSK	25	25	19.37	19.34	19.37			
10	QPSK	50	0	19.41	19.47	19.37	21	0	
10	16QAM	1	0	19.43	19.44	19.48			
10	16QAM	1	25	19.50	19.43	19.50			
10	16QAM	1	49	19.40	19.36	19.30	21	0	
10	16QAM	25	0	19.42	19.30	19.35			
10	16QAM	25	12	19.30	19.51	19.41			
10	16QAM	25	25	19.33	19.35	19.41	21	0	
10	16QAM	50	0	19.39	19.41	19.49			
10	64QAM	1	0	19.34	19.46	19.43			
10	64QAM	1	25	19.32	19.36	19.30	21	0	
10	64QAM	1	49	19.41	19.51	19.36			
10	64QAM	25	0	19.39	19.41	19.50			
10	64QAM	25	12	19.36	19.44	19.46	21	0	
10	64QAM	25	25	19.37	19.39	19.33			
10	64QAM	50	0	19.52	19.44	19.27			
Channel				42115	42590	43065	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	19.50	19.55	19.40	21	0	
5	QPSK	1	12	19.40	19.48	19.45			
5	QPSK	1	24	19.35	19.38	19.38			
5	QPSK	12	0	19.39	19.50	19.41	21	0	
5	QPSK	12	7	19.43	19.40	19.33			
5	QPSK	12	13	19.28	19.35	19.38			
5	QPSK	25	0	19.39	19.46	19.30	21	0	
5	16QAM	1	0	19.41	19.40	19.44			
5	16QAM	1	12	19.50	19.41	19.43			
5	16QAM	1	24	19.41	19.38	19.37	21	0	
5	16QAM	12	0	19.48	19.31	19.33			
5	16QAM	12	7	19.30	19.48	19.42			
5	16QAM	12	13	19.33	19.40	19.34	21	0	
5	16QAM	25	0	19.39	19.44	19.53			
5	64QAM	1	0	19.35	19.54	19.39			
5	64QAM	1	12	19.33	19.42	19.34	21	0	
5	64QAM	1	24	19.44	19.43	19.30			
5	64QAM	12	0	19.34	19.39	19.44			
5	64QAM	12	7	19.41	19.48	19.44	21	0	
5	64QAM	12	13	19.40	19.40	19.39			
5	64QAM	25	0	19.44	19.36	19.21			



GSM850 Ant 4	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	924.2	938.4	948.3		924.2	938.4	948.3	
GSM 1 Tx slot	32.52	32.23	32.21	33.50	23.52	23.23	23.21	24.50
GPRS 1 Tx slots	32.50	32.20	32.17	33.50	23.50	23.20	23.17	24.50
GPRS 2 Tx slots	30.49	30.12	30.10	31.50	24.49	24.12	24.10	25.50
GPRS 3 Tx slots	28.91	28.50	28.53	30.00	24.65	24.24	24.27	25.74
GPRS 4 Tx slots	27.84	27.86	27.60	29.00	24.84	24.86	24.60	26.00

GSM1900 Ant 4	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1860	1899.8		1850.2	1860	1899.8	
GSM 1 Tx slot	25.99	25.70	25.91	27.00	16.99	16.70	16.91	18.00
GPRS 1 Tx slots	25.98	25.66	25.88	27.00	16.98	16.66	16.88	18.00
GPRS 2 Tx slots	23.94	23.59	23.67	25.00	17.94	17.59	17.67	19.00
GPRS 3 Tx slots	22.52	22.57	22.49	24.00	18.26	18.31	18.23	19.74
GPRS 4 Tx slots	20.48	20.41	20.31	22.00	17.48	17.41	17.31	19.00

Band	WCDMA V Ant 4			Tune-up Limit (dBm)	
	4102	4182	4233		
TX Channel	4102	4182	4233		
Rx Channel	4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2kbps	21.17	21.33	21.29	23.00
3GPP Rel 99	RMC 12.2kbps	21.35	21.37	21.25	23.00
3GPP Rel 6	HSDPA Subtest-1	20.30	20.36	20.43	22.00
3GPP Rel 6	HSDPA Subtest-2	20.41	20.38	20.36	22.00
3GPP Rel 6	HSDPA Subtest-3	19.90	19.93	19.71	21.50
3GPP Rel 6	HSDPA Subtest-4	19.89	19.89	19.87	21.50
3GPP Rel 6	HSUPA Subtest-1	20.42	20.34	20.41	22.00
3GPP Rel 6	HSUPA Subtest-2	18.33	18.25	18.39	20.00
3GPP Rel 6	HSUPA Subtest-3	19.30	19.21	19.38	21.00
3GPP Rel 6	HSUPA Subtest-4	18.16	18.45	18.20	20.00
3GPP Rel 6	HSUPA Subtest-5	20.08	20.22	20.31	22.00



Band 38 Ant 4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Middle, Power High, Tune-up limit (dBm), MPR (dB). Includes sub-headers for Channel, Frequency (MHz), and Channel.

Band 41 Ant 4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Middle, Power High, Tune-up limit (dBm), MPR (dB). Includes sub-headers for Channel, Frequency (MHz), and Channel.

Band 41 HPUE Ant 4

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low, Power Middle, Power High, Tune-up limit (dBm), MPR (dB). Includes sub-headers for Channel, Frequency (MHz), and Channel.

Hotspot On Power

GSM850 Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	129	189	251		129	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.35	32.24	32.10	33.50	23.35	23.24	23.10	24.50
GPRS 1 Tx slot	32.33	32.21	32.05	33.50	23.33	23.21	23.05	24.50
GPRS 2 Tx slots	30.52	30.32	30.09	31.50	24.52	24.32	24.09	25.50
GPRS 3 Tx slots	29.02	28.83	28.79	30.00	24.76	24.57	24.53	25.74
GPRS 4 Tx slots	27.71	28.01	27.70	29.00	24.71	25.01	24.70	26.00

Band		WCDMA V Ant 0			Tune-up Limit (dBm)
TX Channel		4132	4182	4233	
Rx Channel		4357	4407	4458	
Frequency (MHz)		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps	21.56	21.49	21.48	23.00
3GPP Rel 99	RMC 12.2Kbps	21.63	21.65	21.56	23.00
3GPP Rel 6	HSDPA Subtest-1	20.71	20.81	20.48	22.00
3GPP Rel 6	HSDPA Subtest-2	20.69	20.77	20.42	22.00
3GPP Rel 6	HSDPA Subtest-3	20.05	20.06	20.14	21.50
3GPP Rel 6	HSDPA Subtest-4	20.13	20.01	20.00	21.50
3GPP Rel 6	HSUPA Subtest-1	20.63	20.78	20.52	22.00
3GPP Rel 6	HSUPA Subtest-2	18.40	18.61	18.57	20.00
3GPP Rel 6	HSUPA Subtest-3	19.68	19.78	19.64	21.00
3GPP Rel 6	HSUPA Subtest-4	18.74	18.61	18.56	20.00
3GPP Rel 6	HSUPA Subtest-5	20.58	20.70	20.63	22.00



GSM1900 Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	15072	15072	15072	29.50	15072	15072	15072	29.50
Frequency (MHz)	19.83	19.83	19.83	19.83	19.83	19.83	19.83	19.83
GSM 1 Tx slot	28.83	28.33	28.35	29.50	19.83	19.33	19.35	20.50
GPRS 1 Tx slot	28.81	28.31	28.34	29.50	19.81	19.31	19.34	20.50
GPRS 2 Tx slots	26.82	26.44	26.51	27.50	20.82	20.44	20.51	21.50
GPRS 3 Tx slots	25.41	25.43	25.16	26.50	21.15	21.17	20.90	22.24
GPRS 4 Tx slots	23.63	23.22	23.16	24.50	20.63	20.22	20.16	21.50





Band 42 FCC Part27Q									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				42190	42590	42990			
Frequency (MHz)				3460	3500	3540			
20	QPSK	1	0	15.06	15.12	15.07	16.5	0	
20	QPSK	1	49	15.02	15.02	15.02			
20	QPSK	1	99	14.96	14.99	15.01			
20	QPSK	50	0	15.03	15.06	14.91	16.5	0	
20	QPSK	50	24	15.03	15.02	14.89			
20	QPSK	50	50	14.89	14.88	14.89			
20	QPSK	100	0	14.92	15.05	14.94	16.5	0	
20	16QAM	1	0	15.09	14.98	15.08			
20	16QAM	1	49	15.04	14.98	15.07			
20	16QAM	1	99	14.99	14.98	14.98	16.5	0	
20	16QAM	50	0	15.08	14.94	14.93			
20	16QAM	50	24	14.96	14.95	15.06			
20	16QAM	50	50	14.95	14.94	14.97	16.5	0	
20	16QAM	100	0	14.94	14.98	15.06			
20	64QAM	1	0	14.98	15.10	15.02			
20	64QAM	1	49	15.00	14.94	14.89	16.5	0	
20	64QAM	1	99	15.07	15.09	14.91			
20	64QAM	50	0	14.98	15.03	15.05			
20	64QAM	50	24	15.00	14.96	14.99	16.5	0	
20	64QAM	50	50	14.95	14.93	14.89			
20	64QAM	100	0	15.10	15.01	14.83			
Channel				42165	42590	43015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3457.5	3500	3542.5			
15	QPSK	1	0	14.99	15.02	14.92			
15	QPSK	1	37	15.00	14.96	14.98	16.5	0	
15	QPSK	1	74	14.86	14.85	14.94			
15	QPSK	36	0	14.89	15.03	14.79			
15	QPSK	36	20	14.91	14.94	14.73	16.5	0	
15	QPSK	36	39	14.85	14.73	14.72			
15	QPSK	75	0	14.80	14.88	14.79			
15	16QAM	1	0	15.03	14.89	14.99	16.5	0	
15	16QAM	1	37	14.91	14.89	14.98			
15	16QAM	1	74	14.88	14.82	14.84			
15	16QAM	36	0	15.01	14.90	14.77	16.5	0	
15	16QAM	36	20	14.80	15.06	14.94			
15	16QAM	36	39	14.87	14.90	14.80			
15	16QAM	75	0	14.78	14.95	14.99	16.5	0	
15	64QAM	1	0	14.91	15.07	14.92			
15	64QAM	1	37	14.88	14.77	14.76			
15	64QAM	1	74	14.99	14.93	14.84	16.5	0	
15	64QAM	36	0	14.86	14.86	14.98			
15	64QAM	36	20	14.83	14.91	14.92			
15	64QAM	36	39	14.88	14.79	14.75	16.5	0	
15	64QAM	75	0	14.99	14.93	14.70			
Channel				42140	42590	43040			
Frequency (MHz)				3455	3500	3545			
10	QPSK	1	0	14.97	15.06	14.98			
10	QPSK	1	25	14.92	14.93	14.94	16.5	0	
10	QPSK	1	49	14.94	14.83	14.90			
10	QPSK	25	0	14.86	14.94	14.75			
10	QPSK	25	12	14.91	14.99	14.75	16.5	0	
10	QPSK	25	25	14.75	14.73	14.73			
10	QPSK	50	0	14.83	15.00	14.77			
10	16QAM	1	0	15.05	14.92	15.04	16.5	0	
10	16QAM	1	25	14.99	14.85	14.90			
10	16QAM	1	49	14.96	14.87	14.91			
10	16QAM	25	0	14.99	14.82	14.81	16.5	0	
10	16QAM	25	12	14.82	15.07	14.88			
10	16QAM	25	25	14.87	14.84	14.93			
10	16QAM	50	0	14.77	14.90	14.92	16.5	0	
10	64QAM	1	0	14.95	15.00	14.85			
10	64QAM	1	25	14.91	14.78	14.80			
10	64QAM	1	49	14.89	15.01	14.80	16.5	0	
10	64QAM	25	0	14.83	14.86	14.89			
10	64QAM	25	12	14.86	14.79	14.89			
10	64QAM	25	25	14.86	14.83	14.78	16.5	0	
10	64QAM	50	0	14.99	14.97	14.71			
Channel				42115	42590	43065			
Frequency (MHz)				3452.5	3500	3547.5			
5	QPSK	1	0	14.89	14.99	15.02			
5	QPSK	1	12	14.84	14.92	14.88	16.5	0	
5	QPSK	1	24	14.86	14.91	14.96			
5	QPSK	12	0	14.95	14.89	14.89			
5	QPSK	12	7	14.91	14.90	14.87	16.5	0	
5	QPSK	12	13	14.85	14.76	14.72			
5	QPSK	25	0	14.77	14.90	14.81			
5	16QAM	1	0	15.02	14.80	15.02	16.5	0	
5	16QAM	1	12	14.98	14.84	15.02			
5	16QAM	1	24	14.96	14.85	14.86			
5	16QAM	12	0	14.98	14.80	14.87	16.5	0	
5	16QAM	12	7	14.85	15.09	14.95			
5	16QAM	12	13	14.89	14.87	14.89			
5	16QAM	25	0	14.84	14.81	15.03	16.5	0	
5	64QAM	1	0	14.83	15.03	14.93			
5	64QAM	1	12	14.84	14.81	14.72			
5	64QAM	1	24	14.94	14.99	14.89	16.5	0	
5	64QAM	12	0	14.91	14.92	14.94			
5	64QAM	12	7	14.89	14.81	14.91			
5	64QAM	12	13	14.87	14.78	14.80	16.5	0	
5	64QAM	25	0	15.06	14.90	14.70			



GSM850 Ant 4 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.6		824.2	836.4	848.6	
GSM 1 Tx slot	30.98	30.73	30.67	32.00	21.98	21.73	21.67	23.00
GPRS 1 Tx slots	30.95	30.68	30.66	32.00	21.95	21.68	21.66	23.00
GPRS 2 Tx slots	29.01	28.60	28.57	30.00	23.01	22.60	22.57	24.00
GPRS 3 Tx slots	27.43	27.02	27.03	28.50	23.17	22.76	22.77	24.24
GPRS 4 Tx slots	26.30	26.41	26.33	27.50	23.30	23.41	23.33	24.50

GSM1900 Ant 4 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1860	1869.8		1850.2	1860	1869.8	
GSM 1 Tx slot	25.51	25.24	25.38	26.50	16.51	16.24	16.35	17.50
GPRS 1 Tx slot	25.50	25.20	25.35	26.50	16.50	16.20	16.35	17.50
GPRS 2 Tx slots	23.35	22.91	23.13	24.50	17.35	16.91	17.13	18.50
GPRS 3 Tx slots	22.01	22.05	21.99	23.50	17.75	17.79	17.73	19.24
GPRS 4 Tx slots	20.06	19.97	19.79	21.50	17.06	16.97	16.79	18.50

Band TX Channel	WCDMA V Ant 4 Rx Channel			Tune-up Limit (dBm)
	4132	4182	4233	
Frequency (MHz)	836.4	836.4	846.6	
3GPP Rel 99 RMC 12.2Kbps	20.23	20.30	20.24	22.00
3GPP Rel 99 RMC 12.2Kbps	20.34	20.37	20.25	22.00
3GPP Rel 6 HSDPA Subtest-1	19.36	19.26	19.36	21.00
3GPP Rel 6 HSDPA Subtest-2	19.35	19.32	19.33	21.00
3GPP Rel 6 HSDPA Subtest-3	18.88	18.92	18.76	20.50
3GPP Rel 6 HSDPA Subtest-4	18.91	18.97	18.78	20.50
3GPP Rel 6 HSUPA Subtest-1	19.38	19.34	19.38	21.00
3GPP Rel 6 HSUPA Subtest-2	17.35	17.33	17.33	19.00
3GPP Rel 6 HSUPA Subtest-3	16.32	16.25	16.36	20.00
3GPP Rel 6 HSUPA Subtest-4	17.22	17.40	17.27	19.00
3GPP Rel 6 HSUPA Subtest-5	19.15	19.26	19.28	21.00



2CA DL

CA List	PCC									SCC				Power		
	LTE	BW	BW	UL	UL	ULF	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	DL Antenna Configuration	Tx. Power (dBm)	Tx. Power (dBm)	
CA_41A-42A	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590		22.44	22.65
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590		22.38	22.54
	Band 42	Ant2	20M	3500	42590	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	22.99	23.13



3CA DL

3CA List	PCC									SCC1					SCC2				Power		
	LTE	BW	BW	UL	UL	Mod.	ULF	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel	RB	RB Offset			Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_41A-42C	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590		Band 42	20M	3519.8	42788		22.48	22.65
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 42	20M	3500	42590		Band 42	20M	3519.8	42788		22.42	22.54
	Band 42	Ant2	20M	3500	42590	QPSK	1	0		Band 42	20M	3519.8	42788		Band 41	20M	2593	40620	4x4MIMO	23.00	23.13
CA_41C-42A	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590		22.60	22.65
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590		22.33	22.54
	Band 42	Ant2	20M	3500	42590	QPSK	1	0		Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.94	23.13



4CA DL

Configure	PCC								SCC1				SCC2				SCC3				Power					
	LTE	BW	BW	UL	UL	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA	
	Band	Ant	(MHz)	Freq. (MHz)	Channel	Mod.	RB	RB Offset	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Band	(MHz)	Freq. (MHz)	Channel	Tx. Power (dBm)	Tx. Power (dBm)
CA_41C-42C	Band 41	Ant1	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590		Band 42	20M	3519.8	42788		22.42	22.65
	Band 41	Ant4	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	Band 42	20M	3500	42590		Band 42	20M	3519.8	42788		22.46	22.54
	Band 42	Ant2	20M	3500	42590	QPSK	1	0		Band 42	20M	3519.8	42788		Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	22.96	23.13



Full Power

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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	22.62	22.63	22.59	24.5	0.0	
100	PI/2 BPSK	1	137	22.66	22.66	22.52			
100	PI/2 BPSK	1	271	22.58	22.64	22.57			
100	PI/2 BPSK	135	0	22.17	22.07	22.22	24.0	0.5	
100	PI/2 BPSK	135	69	22.51	22.61	22.56	24.5	0.0	
100	PI/2 BPSK	135	138	22.11	22.02	22.24	24.0	0.5	
100	PI/2 BPSK	270	0	22.27	22.12	22.14			
100	QPSK	1	1	22.69	22.78	22.74	24.5	0.0	
100	QPSK	1	137	22.56	22.74	22.66			
100	QPSK	1	271	22.68	22.67	22.68			
100	QPSK	135	0	21.63	21.64	21.60	23.5	1.0	
100	QPSK	135	69	22.52	22.61	22.55	24.5	0.0	
100	QPSK	135	138	21.54	21.56	21.51	23.5	1.0	
100	QPSK	270	0	21.51	21.55	21.51			
100	16QAM	1	1	21.65	21.76	21.61	23.5	1.0	
100	64QAM	1	1	21.15	21.21	21.03	22.0	2.5	
100	256QAM	1	1	18.21	18.24	18.10	20.0	4.5	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	22.65	22.66	22.67	24.5	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	22.57	22.70	22.76	24.5	0.0	

Part27Q 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)					633334				
100	PI/2 BPSK	1	1		22.68		24.5	0.0	
100	PI/2 BPSK	1	137		22.72				
100	PI/2 BPSK	1	271		22.79				
100	PI/2 BPSK	135	0		22.10		24.0	0.5	
100	PI/2 BPSK	135	69		22.66		24.5	0.0	
100	PI/2 BPSK	135	138		22.14		24.0	0.5	
100	PI/2 BPSK	270	0		22.13				
100	QPSK	1	1		22.84		24.5	0.0	
100	QPSK	1	137		22.73				
100	QPSK	1	271		22.82				
100	QPSK	135	0		21.62		23.5	1.0	
100	QPSK	135	69		22.62		24.5	0.0	
100	QPSK	135	138		21.61		23.5	1.0	
100	QPSK	270	0		21.64				
100	16QAM	1	1		21.80		23.5	1.0	
100	64QAM	1	1		20.34		22.0	2.5	
100	256QAM	1	1		18.26		20.0	4.5	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1	22.69	22.77	22.68	24.5	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	22.62	22.60	22.68	24.5	0.0	



Part27O 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				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	22.53			24.5	0.0
100	PI/2 BPSK	1	137	22.66				
100	PI/2 BPSK	1	271	22.57				
100	PI/2 BPSK	135	0	22.04			24.0	0.5
100	PI/2 BPSK	135	69	22.54			24.5	0.0
100	PI/2 BPSK	135	138	22.01			24.0	0.5
100	PI/2 BPSK	270	0	22.02				
100	QPSK	1	1	22.76			24.5	0.0
100	QPSK	1	137	22.72				
100	QPSK	1	271	22.58				
100	QPSK	135	0	21.53			23.5	1.0
100	QPSK	135	69	22.56			24.5	0.0
100	QPSK	135	138	21.64			23.5	1.0
100	QPSK	270	0	21.55				
100	16QAM	1	1	21.69			23.5	1.0
100	64QAM	1	1	20.17			22.0	2.5
100	256QAM	1	1	18.08			20.0	4.5
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	22.59	22.58	22.69	24.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	22.62	22.70	22.68	24.5	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	22.55	22.66	22.56	24.5	0.0

Part27Q 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				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	22.63			24.5	0.0
100	PI/2 BPSK	1	137	22.62				
100	PI/2 BPSK	1	271	22.56				
100	PI/2 BPSK	135	0	22.09			24.0	0.5
100	PI/2 BPSK	135	69	22.62			24.5	0.0
100	PI/2 BPSK	135	138	22.09			24.0	0.5
100	PI/2 BPSK	270	0	22.10				
100	QPSK	1	1	22.64			24.5	0.0
100	QPSK	1	137	22.63				
100	QPSK	1	271	22.58				
100	QPSK	135	0	21.59			23.5	1.0
100	QPSK	135	69	22.63			24.5	0.0
100	QPSK	135	138	21.59			23.5	1.0
100	QPSK	270	0	21.61				
100	16QAM	1	1	21.67			23.5	1.0
100	64QAM	1	1	20.12			22.0	2.5
100	256QAM	1	1	18.08			20.0	4.5
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	22.55	22.63	22.58	24.5	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	22.57	22.58	22.54	24.5	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	22.56	22.60	22.58	24.5	0.0



Part270 n77 Ant 5								
5	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pl/2 BPSK	1	1	21.40	21.56	21.39	23.0	0.0
100	Pl/2 BPSK	1	137	21.69	21.71	21.69		
100	Pl/2 BPSK	1	271	21.81	21.78	21.58		
100	Pl/2 BPSK	135	0	20.99	21.03	20.91	22.5	0.5
100	Pl/2 BPSK	135	69	21.80	21.67	21.68	23.0	0.0
100	Pl/2 BPSK	135	138	21.08	21.07	21.09	22.5	0.5
100	Pl/2 BPSK	270	0	21.05	21.13	20.90		
100	Pl/2 BPSK	270	0	21.05	21.13	20.90		
100	QPSK	1	1	21.59	21.64	21.83	23.0	0.0
100	QPSK	1	137	21.65	21.71	21.51		
100	QPSK	1	271	21.83	21.81	21.75		
100	QPSK	135	0	20.50	20.54	20.43	22.0	1.0
100	QPSK	135	69	21.57	21.63	21.57	23.0	0.0
100	QPSK	135	138	20.63	20.61	20.53	22.0	1.0
100	QPSK	270	0	20.52	20.62	20.47		
100	QPSK	270	0	20.52	20.62	20.47		
100	16QAM	1	1	20.75	20.71	20.75	22.0	1.0
100	64QAM	1	1	19.04	19.16	19.01	20.5	2.5
100	256QAM	1	1	17.08	17.21	17.05	18.5	4.5
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3990	23.0	0.0
40	QPSK	1	1	21.61	21.77	21.65	23.0	0.0
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	23.0	0.0
20	QPSK	1	1	21.50	21.81	21.71	23.0	0.0

Part27Q 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				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
100	Pl/2 BPSK	1	1	21.62	21.62	21.62	23.0	0.0
100	Pl/2 BPSK	1	137	21.63	21.63	21.63		
100	Pl/2 BPSK	1	271	21.69	21.69	21.69		
100	Pl/2 BPSK	135	0	21.12	21.12	21.12	22.5	0.5
100	Pl/2 BPSK	135	69	21.64	21.64	21.64	23.0	0.0
100	Pl/2 BPSK	135	138	21.07	21.07	21.07	22.5	0.5
100	Pl/2 BPSK	270	0	21.12	21.12	21.12		
100	Pl/2 BPSK	270	0	21.12	21.12	21.12		
100	QPSK	1	1	21.75	21.75	21.75	23.0	0.0
100	QPSK	1	137	21.71	21.71	21.71		
100	QPSK	1	271	21.74	21.74	21.74		
100	QPSK	135	0	20.65	20.65	20.65	22.0	1.0
100	QPSK	135	69	21.63	21.63	21.63	23.0	0.0
100	QPSK	135	138	20.64	20.64	20.64	22.0	1.0
100	QPSK	270	0	20.62	20.62	20.62		
100	QPSK	270	0	20.62	20.62	20.62		
100	16QAM	1	1	20.75	20.75	20.75	22.0	1.0
100	64QAM	1	1	19.27	19.27	19.27	20.5	2.5
100	256QAM	1	1	17.25	17.25	17.25	18.5	4.5
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	23.0	0.0
40	QPSK	1	1	21.65	21.65	21.65	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	23.0	0.0
20	QPSK	1	1	21.65	21.65	21.65	23.0	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				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	21.26	21.34	21.34	23.0	0.0
100	PI/2 BPSK	1	137	21.34	21.50	21.50		
100	PI/2 BPSK	1	271	21.50	20.72	20.72	22.5	0.5
100	PI/2 BPSK	135	0	20.72	21.33	21.33	23.0	0.0
100	PI/2 BPSK	135	69	21.33	20.69	20.69	22.5	0.5
100	PI/2 BPSK	135	138	20.69	20.62	20.62		
100	PI/2 BPSK	270	0	20.62	21.53	21.53		
100	QPSK	1	1	21.49	21.49	21.49	23.0	0.0
100	QPSK	1	137	21.49	21.50	21.50		
100	QPSK	1	271	21.50	20.27	20.27	22.0	1.0
100	QPSK	135	0	20.27	21.33	21.33	23.0	0.0
100	QPSK	135	69	21.33	20.28	20.28	22.0	1.0
100	QPSK	135	138	20.28	20.35	20.35		
100	QPSK	270	0	20.35	20.31	20.31	22.0	1.0
100	16QAM	1	1	20.31	18.79	18.79	20.5	2.5
100	64QAM	1	1	18.79	16.76	16.76	18.5	4.5
100	256QAM	1	1	16.76	649334	650000	650688	MPR (dB)
Channel				3740.01	3750	3760.02	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				21.50	21.35	21.34	23.0	0.0
80	QPSK	1	1	21.50	21.35	21.34	23.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	21.36	21.33	21.47	23.0	0.0
Channel				647334	650000	652688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	21.40	21.52	21.30	23.0	0.0

Part27Q 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				633334	633334	633334		
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1	21.39	21.39	21.39	23.0	0.0
100	PI/2 BPSK	1	137	21.39	21.47	21.47		
100	PI/2 BPSK	1	271	21.47	21.49	21.49	22.5	0.5
100	PI/2 BPSK	135	0	21.49	20.96	20.96	23.0	0.0
100	PI/2 BPSK	135	69	20.96	21.45	21.45	22.5	0.5
100	PI/2 BPSK	135	138	21.45	20.93	20.93		
100	PI/2 BPSK	270	0	20.93	20.96	20.96	23.0	0.0
100	QPSK	1	1	21.59	21.55	21.55	22.0	1.0
100	QPSK	1	137	21.55	21.58	21.58		
100	QPSK	1	271	21.58	20.46	20.46	23.0	0.0
100	QPSK	135	0	20.46	21.45	21.45	22.0	1.0
100	QPSK	135	69	21.45	20.44	20.44	22.0	1.0
100	QPSK	135	138	20.44	20.41	20.41		
100	QPSK	270	0	20.41	20.59	20.59	22.0	1.0
100	16QAM	1	1	20.59	19.03	19.03	20.5	2.5
100	64QAM	1	1	19.03	17.01	17.01	18.5	4.5
100	256QAM	1	1	17.01	632668	633334	634000	MPR (dB)
Channel				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				21.54	21.44	21.50	23.0	0.0
80	QPSK	1	1	21.54	21.44	21.50	23.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	21.30	21.31	21.40	23.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	21.51	21.46	21.44	23.0	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				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	20.22	20.35	20.20		
100	PI/2 BPSK	1	137	20.16	20.28	20.14	21.5	0.0
100	PI/2 BPSK	1	271	20.02	20.12	19.99		
100	PI/2 BPSK	135	0	19.52	19.75	19.74	21.0	0.5
100	PI/2 BPSK	135	69	20.18	20.25	20.23	21.5	0.0
100	PI/2 BPSK	135	138	19.35	19.56	19.45		
100	PI/2 BPSK	270	0	19.55	19.77	19.53	21.0	0.5
100	QPSK	1	1	20.47	20.53	20.24		
100	QPSK	1	137	20.16	20.40	20.22	21.5	0.0
100	QPSK	1	271	20.08	20.26	20.11		
100	QPSK	135	0	19.14	19.24	19.13	20.5	1.0
100	QPSK	135	69	20.13	20.30	20.09	21.5	0.0
100	QPSK	135	138	18.99	19.11	18.87		
100	QPSK	270	0	19.21	19.33	19.31	20.5	1.0
100	16QAM	1	1	19.34	19.55	19.32	20.5	1.0
100	64QAM	1	1	17.85	17.99	17.79	19.0	2.5
100	256QAM	1	1	15.94	16.00	15.77	17.0	4.5
Channel				646000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960	21.5	0.0
40	QPSK	1	1	20.34	20.47	20.22		
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02	21.5	0.0
20	QPSK	1	1	20.30	20.40	20.08		

Part27Q 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						633334		
Frequency (MHz)						3500.01		
100	PI/2 BPSK	1	1			20.44		
100	PI/2 BPSK	1	137			20.51	21.5	0.0
100	PI/2 BPSK	1	271			20.55		
100	PI/2 BPSK	135	0			19.94	21.0	0.5
100	PI/2 BPSK	135	69			20.44	21.5	0.0
100	PI/2 BPSK	135	138			19.98		
100	PI/2 BPSK	270	0			19.95	21.0	0.5
100	QPSK	1	1			20.65		
100	QPSK	1	137			20.52	21.5	0.0
100	QPSK	1	271			20.64		
100	QPSK	135	0			19.30	20.5	1.0
100	QPSK	135	69			20.44	21.5	0.0
100	QPSK	135	138			19.48		
100	QPSK	270	0			19.48	20.5	1.0
100	16QAM	1	1			19.63	20.5	1.0
100	64QAM	1	1			18.11	19.0	2.5
100	256QAM	1	1			16.05	17.0	4.5
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	21.5	0.0
40	QPSK	1	1	20.58	20.90	20.63		
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	21.5	0.0
20	QPSK	1	1	20.53	20.53	20.58		



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				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	20.27			21.5	0.0
100	PI/2 BPSK	1	137	20.28				
100	PI/2 BPSK	1	271	20.23				
100	PI/2 BPSK	135	0	19.76			21.0	0.5
100	PI/2 BPSK	135	69	20.27			21.5	0.0
100	PI/2 BPSK	135	138	19.69			21.0	0.5
100	PI/2 BPSK	270	0	19.76				
100	QPSK	1	1	20.53				
100	QPSK	1	137	20.43			21.5	0.0
100	QPSK	1	271	20.27				
100	QPSK	135	0	19.28			20.5	1.0
100	QPSK	135	69	20.26			21.5	0.0
100	QPSK	135	138	19.14			20.5	1.0
100	QPSK	270	0	19.23				
100	16QAM	1	1	19.37			20.5	1.0
100	64QAM	1	1	17.87			19.0	2.5
100	256QAM	1	1	15.88			17.0	4.5
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02	21.5	0.0
80	QPSK	1	1	20.23	20.32	20.30	21.5	0.0
Channel				646000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780	21.5	0.0
40	QPSK	1	1	20.43	20.33	20.45	21.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02	21.5	0.0
20	QPSK	1	1	20.29	20.35	20.50	21.5	0.0

Part27Q 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)					633334	3500.01		
100	PI/2 BPSK	1	1	20.21			21.5	0.0
100	PI/2 BPSK	1	137	20.40				
100	PI/2 BPSK	1	271	20.41				
100	PI/2 BPSK	135	0	19.78			21.0	0.5
100	PI/2 BPSK	135	69	20.50			21.5	0.0
100	PI/2 BPSK	135	138	19.83			21.0	0.5
100	PI/2 BPSK	270	0	19.77				
100	QPSK	1	1	20.51				
100	QPSK	1	137	20.45			21.5	0.0
100	QPSK	1	271	20.45				
100	QPSK	135	0	19.30			20.5	1.0
100	QPSK	135	69	20.35			21.5	0.0
100	QPSK	135	138	19.31			20.5	1.0
100	QPSK	270	0	19.34				
100	16QAM	1	1	19.42			20.5	1.0
100	64QAM	1	1	17.90			19.0	2.5
100	256QAM	1	1	15.99			17.0	4.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	21.5	0.0
80	QPSK	1	1	20.44	20.41	20.46	21.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	21.5	0.0
40	QPSK	1	1	20.42	20.40	20.28	21.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	21.5	0.0
20	QPSK	1	1	20.35	20.41	20.35	21.5	0.0



Part270 n77 Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	18.18	18.40	18.37	19.5	0.0	
100	PI/2 BPSK	1	137	18.67	18.71	18.52			
100	PI/2 BPSK	1	271	18.61	18.84	18.67			
100	PI/2 BPSK	135	0	17.91	17.94	17.77	19.0	0.5	
100	PI/2 BPSK	135	69	18.61	18.61	18.62	19.5	0.0	
100	PI/2 BPSK	135	138	18.01	18.10	17.95	19.0	0.5	
100	PI/2 BPSK	270	0	18.08	18.08	17.97			
100	QPSK	1	1	18.61	18.85	18.73			
100	QPSK	1	137	18.80	18.76	18.67	19.5	0.0	
100	QPSK	1	271	18.63	18.77	18.74			
100	QPSK	135	0	17.39	17.45	17.20			
100	QPSK	135	69	18.53	18.64	18.62	19.5	0.0	
100	QPSK	135	138	17.52	17.62	17.54	18.5	1.0	
100	QPSK	270	0	17.49	17.59	17.54			
100	16QAM	1	1	17.37	17.54	17.57			
100	64QAM	1	1	15.84	16.04	15.94	17.0	2.5	
100	256QAM	1	1	13.74	13.88	13.70	15.0	4.5	
Channel				646000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	13.64	13.73	13.76	19.5	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	18.42	18.77	18.51	19.5	0.0	

Part27Q n77 Ant 10										
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)					633334	635000				
100	PI/2 BPSK	1	1		18.58		19.5	0.0		
100	PI/2 BPSK	1	137		18.42					
100	PI/2 BPSK	1	271		18.38					
100	PI/2 BPSK	135	0		17.98		19.0	0.5		
100	PI/2 BPSK	135	69		18.38		19.5	0.0		
100	PI/2 BPSK	135	138		17.87		19.0	0.5		
100	PI/2 BPSK	270	0		17.91					
100	QPSK	1	1		18.64					
100	QPSK	1	137		18.62		19.5	0.0		
100	QPSK	1	271		18.49					
100	QPSK	135	0		17.46					
100	QPSK	135	69		18.41		19.5	0.0		
100	QPSK	135	138		17.37		18.5	1.0		
100	QPSK	270	0		17.44					
100	16QAM	1	1		17.74					
100	64QAM	1	1		16.20		17.0	2.5		
100	256QAM	1	1		14.17		15.0	4.5		
Channel					631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)					3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1		18.58	18.49	18.57	19.5	0.0	
Channel					630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)					3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1		18.50	18.49	18.56	19.5	0.0	



Part270 n78 Ant 10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	17.95				
100	PI/2 BPSK	1	137	18.07			19.5	0.0
100	PI/2 BPSK	1	271	18.41				
100	PI/2 BPSK	135	0	17.45			19.0	0.5
100	PI/2 BPSK	135	69	18.07			19.5	0.0
100	PI/2 BPSK	135	138	17.61			19.0	0.5
100	PI/2 BPSK	270	0	17.57				
100	QPSK	1	1	18.55				
100	QPSK	1	137	18.19			19.5	0.0
100	QPSK	1	271	18.38				
100	QPSK	135	0	18.94			18.5	1.0
100	QPSK	135	69	18.31			19.5	0.0
100	QPSK	135	138	17.08			18.5	1.0
100	QPSK	270	0	17.06				
100	16QAM	1	1	17.01			18.5	1.0
100	64QAM	1	1	15.48			17.0	2.5
100	256QAM	1	1	13.47			15.0	4.5
Channel				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02	19.5	0.0
80	QPSK	1	1	18.33	18.37	18.50	19.5	0.0
Channel				646000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780	19.5	0.0
40	QPSK	1	1	18.44	18.37	18.41	19.5	0.0
Channel				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02	19.5	0.0
20	QPSK	1	1	18.41	18.54	18.39	19.5	0.0

Part27Q n78 Ant 10								
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				633334	633334	633334		
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1	18.25				
100	PI/2 BPSK	1	137	18.30			19.5	0.0
100	PI/2 BPSK	1	271	18.20				
100	PI/2 BPSK	135	0	17.80			19.0	0.5
100	PI/2 BPSK	135	69	18.25			19.5	0.0
100	PI/2 BPSK	135	138	17.71			19.0	0.5
100	PI/2 BPSK	270	0	17.75				
100	QPSK	1	1	18.39				
100	QPSK	1	137	18.37			19.5	0.0
100	QPSK	1	271	18.33				
100	QPSK	135	0	17.23			18.5	1.0
100	QPSK	135	69	18.21			19.5	0.0
100	QPSK	135	138	17.20			18.5	1.0
100	QPSK	270	0	17.25				
100	16QAM	1	1	17.43			18.5	1.0
100	64QAM	1	1	15.99			17.0	2.5
100	256QAM	1	1	13.90			15.0	4.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	19.5	0.0
80	QPSK	1	1	18.21	18.27	18.19	19.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	19.5	0.0
40	QPSK	1	1	18.34	18.14	18.15	19.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	19.5	0.0
20	QPSK	1	1	18.23	18.37	18.16	19.5	0.0



Hotspot On Power

Part27O 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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	Pl/2 BPSK	1	1	12.20	12.29	12.17	14.0	0.0	
100	Pl/2 BPSK	1	137	12.16	12.17	12.29			
100	Pl/2 BPSK	1	271	12.11	12.16	12.25			
100	Pl/2 BPSK	135	0	12.28	12.12	12.24	14.0	0.0	
100	Pl/2 BPSK	135	69	12.27	12.20	12.15	14.0	0.0	
100	Pl/2 BPSK	135	138	12.18	12.26	12.12	14.0	0.0	
100	Pl/2 BPSK	270	0	12.07	12.21	12.22			
100	QPSK	1	1	12.17	12.39	12.31			
100	QPSK	1	137	12.33	12.27	12.15	14.0	0.0	
100	QPSK	1	271	12.07	12.23	12.09			
100	QPSK	135	0	12.27	12.11	12.19			
100	QPSK	135	69	12.14	12.33	12.23	14.0	0.0	
100	QPSK	135	138	12.05	12.17	12.21	14.0	0.0	
100	QPSK	270	0	12.27	12.28	12.24			
100	16QAM	1	1	12.27	12.20	12.26			
100	64QAM	1	1	12.26	12.23	12.02	14.0	0.0	
100	256QAM	1	1	12.24	12.27	12.22	14.0	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	12.33	12.30	12.34	14.0	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	12.20	12.30	12.26	14.0	0.0	

Part27Q 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					633334				
Frequency (MHz)					3500.01				
100	Pl/2 BPSK	1	1		12.42		14.0	0.0	
100	Pl/2 BPSK	1	137		12.34				
100	Pl/2 BPSK	1	271		12.31				
100	Pl/2 BPSK	135	0		12.17		14.0	0.0	
100	Pl/2 BPSK	135	69		12.32		14.0	0.0	
100	Pl/2 BPSK	135	138		12.44		14.0	0.0	
100	Pl/2 BPSK	270	0		12.25				
100	QPSK	1	1		12.43				
100	QPSK	1	137		12.27		14.0	0.0	
100	QPSK	1	271		12.25				
100	QPSK	135	0		12.20				
100	QPSK	135	69		12.31		14.0	0.0	
100	QPSK	135	138		12.28		14.0	0.0	
100	QPSK	270	0		12.27				
100	16QAM	1	1		12.38				
100	64QAM	1	1		12.16		14.0	0.0	
100	256QAM	1	1		12.37		14.0	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1	12.29	12.40	12.42	14.0	0.0	
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1	12.20	12.30	12.26	14.0	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				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	12.18			14.0	0.0
100	PI/2 BPSK	1	137	12.11				
100	PI/2 BPSK	1	271	12.11				
100	PI/2 BPSK	135	0	12.10			14.0	0.0
100	PI/2 BPSK	135	69	12.14			14.0	0.0
100	PI/2 BPSK	135	138	12.20			14.0	0.0
100	PI/2 BPSK	270	0	12.12				
100	QPSK	1	1	12.29				
100	QPSK	1	137	12.07			14.0	0.0
100	QPSK	1	271	12.09				
100	QPSK	135	0	12.03				
100	QPSK	135	69	12.27			14.0	0.0
100	QPSK	135	138	12.11			14.0	0.0
100	QPSK	270	0	12.26				
100	16QAM	1	1	12.28				
100	64QAM	1	1	12.11			14.0	0.0
100	256QAM	1	1	12.16			14.0	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	12.12	12.22	12.27	14.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	12.11	12.13	12.10	14.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	12.26	12.24	12.28	14.0	0.0

Part27Q 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				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	12.11			14.0	0.0
100	PI/2 BPSK	1	137	12.04				
100	PI/2 BPSK	1	271	12.11				
100	PI/2 BPSK	135	0	12.01			14.0	0.0
100	PI/2 BPSK	135	69	12.08			14.0	0.0
100	PI/2 BPSK	135	138	12.08			14.0	0.0
100	PI/2 BPSK	270	0	12.12				
100	QPSK	1	1	12.23				
100	QPSK	1	137	12.11			14.0	0.0
100	QPSK	1	271	12.01				
100	QPSK	135	0	12.11				
100	QPSK	135	69	12.20			14.0	0.0
100	QPSK	135	138	12.14			14.0	0.0
100	QPSK	270	0	12.12				
100	16QAM	1	1	12.18				
100	64QAM	1	1	12.10			14.0	0.0
100	256QAM	1	1	12.10			14.0	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	12.03	12.17	12.15	14.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	12.15	12.15	12.06	14.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	12.09	12.21	12.20	14.0	0.0



Part270 n77 Ant 5								
5	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	13.78	13.71	13.87	15.0	0.0
100	PI/2 BPSK	1	137	13.74	13.69	13.79		
100	PI/2 BPSK	1	271	13.71	13.63	13.80		
100	PI/2 BPSK	135	0	13.77	13.67	13.69	15.0	0.0
100	PI/2 BPSK	135	69	13.91	13.71	13.73	15.0	0.0
100	PI/2 BPSK	135	138	13.73	13.68	13.78	15.0	0.0
100	PI/2 BPSK	270	0	13.87	13.65	13.81		
100	QPSK	1	1	13.89	13.93	13.81		
100	QPSK	1	137	13.82	13.80	13.77	15.0	0.0
100	QPSK	1	271	13.81	13.77	13.77		
100	QPSK	135	0	13.71	13.71	13.86		
100	QPSK	135	69	13.85	13.91	13.79	15.0	0.0
100	QPSK	135	138	13.87	13.85	13.80	15.0	0.0
100	QPSK	270	0	13.78	13.64	13.71		
100	16QAM	1	1	13.86	13.80	13.81		
100	64QAM	1	1	13.86	13.85	13.79	15.0	0.0
100	256QAM	1	1	13.73	13.73	13.73	15.0	0.0
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3840	3960		
40	QPSK	1	1	13.76	13.76	13.64	15.0	0.0
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3840	3970.02		
20	QPSK	1	1	13.81	13.84	13.68	15.0	0.0

Part27Q 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				633334	633334	633334		
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1		13.56		15.0	0.0
100	PI/2 BPSK	1	137		13.68			
100	PI/2 BPSK	1	271		13.68			
100	PI/2 BPSK	135	0		13.64		15.0	0.0
100	PI/2 BPSK	135	69		13.63		15.0	0.0
100	PI/2 BPSK	135	138		13.80		15.0	0.0
100	PI/2 BPSK	270	0		13.70			
100	QPSK	1	1		13.83			
100	QPSK	1	137		13.64		15.0	0.0
100	QPSK	1	271		13.71			
100	QPSK	135	0		13.71			
100	QPSK	135	69		13.81		15.0	0.0
100	QPSK	135	138		13.76		15.0	0.0
100	QPSK	270	0		13.73			
100	16QAM	1	1		13.69			
100	64QAM	1	1		13.76		15.0	0.0
100	256QAM	1	1		13.71		15.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	13.78	13.70	13.80	15.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	13.79	13.67	13.75	15.0	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				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1		13.54		15.0	0.0	
100	PI/2 BPSK	1	137		13.53				
100	PI/2 BPSK	1	271		13.55				
100	PI/2 BPSK	135	0		13.47		15.0	0.0	
100	PI/2 BPSK	135	69		13.59		15.0	0.0	
100	PI/2 BPSK	135	138		13.65		15.0	0.0	
100	PI/2 BPSK	270	0		13.69		15.0	0.0	
100	QPSK	1	1		13.73		15.0	0.0	
100	QPSK	1	137		13.53				
100	QPSK	1	271		13.62				
100	QPSK	135	0		13.59		15.0	0.0	
100	QPSK	135	69		13.71		15.0	0.0	
100	QPSK	135	138		13.70		15.0	0.0	
100	QPSK	270	0		13.57		15.0	0.0	
100	16QAM	1	1		13.69		15.0	0.0	
100	64QAM	1	1		13.53		15.0	0.0	
100	256QAM	1	1		13.51		15.0	0.0	
Channel				649334	650000	650668	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)	
80	QPSK	1	1		13.60	13.70	13.63	15.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	QPSK	1	1		13.61	13.60	13.63	15.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)	
20	QPSK	1	1		13.66	13.58	13.63	15.0	0.0

Part27Q 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				633334	633334	633334			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI/2 BPSK	1	1		13.45		15.0	0.0	
100	PI/2 BPSK	1	137		13.44				
100	PI/2 BPSK	1	271		13.56				
100	PI/2 BPSK	135	0		13.49		15.0	0.0	
100	PI/2 BPSK	135	69		13.46		15.0	0.0	
100	PI/2 BPSK	135	138		13.54		15.0	0.0	
100	PI/2 BPSK	270	0		13.64		15.0	0.0	
100	QPSK	1	1		13.67		15.0	0.0	
100	QPSK	1	137		13.52				
100	QPSK	1	271		13.48				
100	QPSK	135	0		13.53		15.0	0.0	
100	QPSK	135	69		13.62		15.0	0.0	
100	QPSK	135	138		13.55		15.0	0.0	
100	QPSK	270	0		13.55		15.0	0.0	
100	16QAM	1	1		13.67		15.0	0.0	
100	64QAM	1	1		13.53		15.0	0.0	
100	256QAM	1	1		13.57		15.0	0.0	
Channel				632668	633334	634000	Tune-up limit	MPR	
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)	
80	QPSK	1	1		13.58	13.65	13.54	15.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1		13.61	13.62	13.63	15.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1		13.55	13.51	13.56	15.0	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				650000	656000	662000			
Frequency (MHz)				3750	3940	3930			
100	Pl/2 BPSK	1	1	17.01	16.92	16.95			
100	Pl/2 BPSK	1	137	17.00	16.98	17.11	18.0	0.0	
100	Pl/2 BPSK	1	271	16.92	16.97	16.88			
100	Pl/2 BPSK	135	0	17.10	16.98	16.99	18.0	0.0	
100	Pl/2 BPSK	135	69	17.04	17.00	17.06	18.0	0.0	
100	Pl/2 BPSK	135	138	16.91	17.01	17.08	18.0	0.0	
100	Pl/2 BPSK	270	0	17.08	17.02	17.08			
100	QPSK	1	1	17.05	17.12	17.02			
100	QPSK	1	137	17.07	16.98	17.02	18.0	0.0	
100	QPSK	1	271	16.91	17.00	17.02			
100	QPSK	135	0	16.87	17.01	17.08	18.0	0.0	
100	QPSK	135	69	17.03	17.11	16.99	18.0	0.0	
100	QPSK	135	138	16.99	16.98	17.10	18.0	0.0	
100	QPSK	270	0	17.05	17.08	16.89			
100	16QAM	1	1	16.97	17.05	17.02	18.0	0.0	
100	64QAM	1	1	17.02	17.06	17.01	18.0	0.0	
100	256QAM	1	1	15.94	16.00	15.77	17.0	1.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3940	3990			
40	QPSK	1	1	17.04	16.95	17.03	18.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3940	3970.02			
20	QPSK	1	1	16.98	17.06	16.96	18.0	0.0	

Part27Q 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				633334	633334	633334			
Frequency (MHz)				3500.01					
100	Pl/2 BPSK	1	1	16.99					
100	Pl/2 BPSK	1	137	17.04			18.0	0.0	
100	Pl/2 BPSK	1	271	17.05					
100	Pl/2 BPSK	135	0	17.09			18.0	0.0	
100	Pl/2 BPSK	135	69	17.12			18.0	0.0	
100	Pl/2 BPSK	135	138	17.07			18.0	0.0	
100	Pl/2 BPSK	270	0	17.09					
100	QPSK	1	1	17.16					
100	QPSK	1	137	17.02			18.0	0.0	
100	QPSK	1	271	16.98					
100	QPSK	135	0	16.97			18.0	0.0	
100	QPSK	135	69	17.17			18.0	0.0	
100	QPSK	135	138	16.96			18.0	0.0	
100	QPSK	270	0	17.11					
100	16QAM	1	1	17.07			18.0	0.0	
100	64QAM	1	1	17.07			18.0	0.0	
100	256QAM	1	1	16.05			18.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	17.09	17.06	17.01	18.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	17.08	17.06	17.15	18.0	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				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	16.91			18.0	0.0
100	PI/2 BPSK	1	137	16.90				
100	PI/2 BPSK	1	271	17.03				
100	PI/2 BPSK	135	0	16.97			18.0	0.0
100	PI/2 BPSK	135	69	17.00			18.0	0.0
100	PI/2 BPSK	135	138	17.07				
100	PI/2 BPSK	270	0	17.10			18.0	0.0
100	QPSK	1	1	17.12				
100	QPSK	1	137	16.97			18.0	0.0
100	QPSK	1	271	17.01				
100	QPSK	135	0	16.97			18.0	0.0
100	QPSK	135	69	17.00			18.0	0.0
100	QPSK	135	138	17.02				
100	QPSK	270	0	16.95			18.0	0.0
100	16QAM	1	1	17.02			18.0	0.0
100	64QAM	1	1	17.06			18.0	0.0
100	256QAM	1	1	15.83			17.0	1.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	17.03	17.01	18.94	18.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	17.06	17.01	18.94	18.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	16.95	17.00	17.07	18.0	0.0

Part27Q 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				633334	633334	633334		
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1	16.86				
100	PI/2 BPSK	1	137	16.84			18.0	0.0
100	PI/2 BPSK	1	271	16.97				
100	PI/2 BPSK	135	0	16.83			18.0	0.0
100	PI/2 BPSK	135	69	16.81			18.0	0.0
100	PI/2 BPSK	135	138	16.92				
100	PI/2 BPSK	270	0	16.99			18.0	0.0
100	QPSK	1	1	17.08				
100	QPSK	1	137	16.86			18.0	0.0
100	QPSK	1	271	16.86				
100	QPSK	135	0	16.89			18.0	0.0
100	QPSK	135	69	17.05			18.0	0.0
100	QPSK	135	138	16.93				
100	QPSK	270	0	17.01			18.0	0.0
100	16QAM	1	1	17.05			18.0	0.0
100	64QAM	1	1	16.94			18.0	0.0
100	256QAM	1	1	15.89			17.0	1.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	17.00	16.98	16.97	18.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	16.94	16.95	17.00	18.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	16.97	17.05	16.99	18.0	0.0



Part270 n77 Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3940	3930			
100	PI/2 BPSK	1	1	18.27	18.20	18.36			
100	PI/2 BPSK	1	137	18.29	18.21	18.30	19.0	0.0	
100	PI/2 BPSK	1	271	18.20	18.35	18.25			
100	PI/2 BPSK	135	0	18.41	18.26	18.22	19.0	0.0	
100	PI/2 BPSK	135	69	18.29	18.23	18.23	19.0	0.0	
100	PI/2 BPSK	135	138	18.26	18.26	18.29			
100	PI/2 BPSK	270	0	18.41	18.28	18.34	19.0	0.0	
100	QPSK	1	1	18.33	18.46	18.39			
100	QPSK	1	137	18.36	18.23	18.27	19.0	0.0	
100	QPSK	1	271	18.21	18.20	18.29			
100	QPSK	135	0	17.39	17.45	17.20	18.5	0.5	
100	QPSK	135	69	18.34	18.43	18.20	19.0	0.0	
100	QPSK	135	138	17.52	17.62	17.54	18.5	0.5	
100	QPSK	270	0	17.49	17.59	17.54			
100	16QAM	1	1	17.37	17.54	17.57	18.5	0.5	
100	64QAM	1	1	15.84	16.04	15.94	17.0	2.0	
100	256QAM	1	1	13.74	13.96	13.76	15.0	4.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3940	3930	19.0	0.0	
40	QPSK	1	1	13.14	13.41	13.29			
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3940	3970.02	19.0	0.0	
20	QPSK	1	1	18.17	18.42	18.26			

Part27Q n77 Ant 10									
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				633334	633334	633334			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI/2 BPSK	1	1	18.08	18.08	18.08			
100	PI/2 BPSK	1	137	18.09	18.09	18.09	19.0	0.0	
100	PI/2 BPSK	1	271	18.11	18.11	18.11			
100	PI/2 BPSK	135	0	17.99	17.99	17.99	19.0	0.0	
100	PI/2 BPSK	135	69	18.06	18.06	18.06	19.0	0.0	
100	PI/2 BPSK	135	138	17.87	17.87	17.87			
100	PI/2 BPSK	270	0	17.91	17.91	17.91	19.0	0.0	
100	QPSK	1	1	18.21	18.21	18.21			
100	QPSK	1	137	18.01	18.01	18.01	19.0	0.0	
100	QPSK	1	271	18.02	18.02	18.02			
100	QPSK	135	0	17.46	17.46	17.46	18.5	0.5	
100	QPSK	135	69	18.12	18.12	18.12	19.0	0.0	
100	QPSK	135	138	17.37	17.37	17.37	18.5	0.5	
100	QPSK	270	0	17.44	17.44	17.44			
100	16QAM	1	1	17.74	17.74	17.74	18.5	0.5	
100	64QAM	1	1	16.20	16.20	16.20	17.0	2.0	
100	256QAM	1	1	14.17	14.17	14.17	15.0	4.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	19.0	0.0	
40	QPSK	1	1	18.13	18.05	18.19			
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	19.0	0.0	
20	QPSK	1	1	18.18	18.07	18.17			



Part270 n78 Ant 10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	17.89			19.0	0.0
100	PI/2 BPSK	1	137	17.95				
100	PI/2 BPSK	1	271	17.98				
100	PI/2 BPSK	135	0	17.97			19.0	0.0
100	PI/2 BPSK	135	69	17.91			19.0	0.0
100	PI/2 BPSK	135	138	18.05				
100	PI/2 BPSK	270	0	18.01			19.0	0.0
100	QPSK	1	1	18.12				
100	QPSK	1	137	17.95			19.0	0.0
100	QPSK	1	271	17.98				
100	QPSK	135	0	16.94			18.5	0.5
100	QPSK	135	69	17.92			19.0	0.0
100	QPSK	135	138	17.08				
100	QPSK	270	0	17.06			18.5	0.5
100	16QAM	1	1	17.01			18.5	0.5
100	64QAM	1	1	15.48			17.0	2.0
100	256QAM	1	1	13.47			15.0	4.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	17.85	18.05	17.95	19.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	18.04	18.08	17.95	19.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	17.85	18.07	17.95	19.0	0.0

Part27Q n78 Ant 10								
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				633334	633334	633334		
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1	17.85			19.0	0.0
100	PI/2 BPSK	1	137	17.93				
100	PI/2 BPSK	1	271	18.01				
100	PI/2 BPSK	135	0	17.96			19.0	0.0
100	PI/2 BPSK	135	69	17.89			19.0	0.0
100	PI/2 BPSK	135	138	18.02				
100	PI/2 BPSK	270	0	18.01			19.0	0.0
100	QPSK	1	1	18.05				
100	QPSK	1	137	17.87			19.0	0.0
100	QPSK	1	271	17.92				
100	QPSK	135	0	17.23			18.5	0.5
100	QPSK	135	69	18.03			19.0	0.0
100	QPSK	135	138	17.20				
100	QPSK	270	0	17.25			18.5	0.5
100	16QAM	1	1	17.43			18.5	0.5
100	64QAM	1	1	15.99			17.0	2.0
100	256QAM	1	1	13.90			15.0	4.0
Channel				632868	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	17.88	18.02	17.91	19.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	17.91	17.94	17.98	19.0	0.0
Channel				630868	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	17.91	17.97	17.88	19.0	0.0



Receiver On Power

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				650000	656000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI/2 BPSK	1	1	19.17	19.33	19.29	21.0	0.0
100	PI/2 BPSK	1	137	19.16	19.24	19.29		
100	PI/2 BPSK	1	271	19.09	19.35	19.30		
100	PI/2 BPSK	135	0	19.21	19.26	19.25	21.0	0.0
100	PI/2 BPSK	135	69	19.22	19.25	19.34	21.0	0.0
100	PI/2 BPSK	135	138	19.16	19.38	19.28	21.0	0.0
100	PI/2 BPSK	270	0	19.27	19.29	19.33		
100	QPSK	1	1	19.36	19.39	19.23		
100	QPSK	1	137	19.13	19.22	19.22	21.0	0.0
100	QPSK	1	271	19.21	19.32	19.23		
100	QPSK	135	0	19.31	19.31	19.32		
100	QPSK	135	69	19.27	19.35	19.25	21.0	0.0
100	QPSK	135	138	19.23	19.29	19.19	21.0	0.0
100	QPSK	270	0	19.28	19.31	19.27		
100	16QAM	1	1	19.10	19.26	19.22		
100	64QAM	1	1	19.14	19.35	19.34	21.0	0.0
100	256QAM	1	1	18.21	18.24	18.10	20.0	1.0
Channel				648000	656000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	QPSK	1	1	19.26	19.35	19.09	21.0	0.0
Channel				647334	656000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)
20	QPSK	1	1	19.18	19.25	19.21	21.0	0.0

Part27Q 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					633334			
Frequency (MHz)					3500.01			
100	PI/2 BPSK	1	1		19.32		21.0	0.0
100	PI/2 BPSK	1	137		19.32			
100	PI/2 BPSK	1	271		19.25			
100	PI/2 BPSK	135	0		19.26		21.0	0.0
100	PI/2 BPSK	135	69		19.29		21.0	0.0
100	PI/2 BPSK	135	138		19.45		21.0	0.0
100	PI/2 BPSK	270	0		19.22			
100	QPSK	1	1		19.47			
100	QPSK	1	137		19.38		21.0	0.0
100	QPSK	1	271		19.23			
100	QPSK	135	0		19.23			
100	QPSK	135	69		19.43		21.0	0.0
100	QPSK	135	138		19.20		21.0	0.0
100	QPSK	270	0		19.38			
100	16QAM	1	1		19.37			
100	64QAM	1	1		19.26		21.0	0.0
100	256QAM	1	1		18.26		20.0	1.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	19.41	19.41	19.43	21.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	19.35	19.36	19.41	21.0	0.0



Part27O 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				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	19.75			21.0	0.0
100	PI/2 BPSK	1	137	19.76				
100	PI/2 BPSK	1	271	19.74				
100	PI/2 BPSK	135	0	19.53			21.0	0.0
100	PI/2 BPSK	135	69	19.68			21.0	0.0
100	PI/2 BPSK	135	138	19.78			21.0	0.0
100	PI/2 BPSK	270	0	19.69				
100	QPSK	1	1	19.86				
100	QPSK	1	137	19.67			21.0	0.0
100	QPSK	1	271	19.73				
100	QPSK	135	0	19.67				
100	QPSK	135	69	19.84			21.0	0.0
100	QPSK	135	138	19.56			21.0	0.0
100	QPSK	270	0	19.72				
100	16QAM	1	1	19.75				
100	64QAM	1	1	19.76			21.0	0.0
100	256QAM	1	1	18.08			20.0	1.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	19.22	19.27	19.19	21.0	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	19.16	19.19	19.26	21.0	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	19.22	19.35	19.23	21.0	0.0

Part27Q 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				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	19.19			21.0	0.0
100	PI/2 BPSK	1	137	19.08				
100	PI/2 BPSK	1	271	19.04				
100	PI/2 BPSK	135	0	19.04			21.0	0.0
100	PI/2 BPSK	135	69	19.04			21.0	0.0
100	PI/2 BPSK	135	138	19.09			21.0	0.0
100	PI/2 BPSK	270	0	19.13				
100	QPSK	1	1	19.24				
100	QPSK	1	137	19.14			21.0	0.0
100	QPSK	1	271	19.14				
100	QPSK	135	0	19.01				
100	QPSK	135	69	19.21			21.0	0.0
100	QPSK	135	138	19.02			21.0	0.0
100	QPSK	270	0	19.11				
100	16QAM	1	1	19.14				
100	64QAM	1	1	19.07			21.0	0.0
100	256QAM	1	1	18.08			20.0	1.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	19.16	19.06	19.16	21.0	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	19.20	19.04	19.18	21.0	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	19.19	19.18	19.08	21.0	0.0



Part270 n77 Ant 5									
5	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3940	3930			
100	PI/2 BPSK	1	1	15.26	15.37	15.23			
100	PI/2 BPSK	1	137	15.23	15.31	15.33	16.5	0.0	
100	PI/2 BPSK	1	271	15.19	15.39	15.42			
100	PI/2 BPSK	135	0	15.38	15.27	15.43	16.5	0.0	
100	PI/2 BPSK	135	69	15.40	15.42	15.18	16.5	0.0	
100	PI/2 BPSK	135	138	15.17	15.44	15.23	16.5	0.0	
100	PI/2 BPSK	270	0	15.28	15.15	15.19			
100	QPSK	1	1	15.28	15.46	15.39			
100	QPSK	1	137	15.28	15.30	15.25	16.5	0.0	
100	QPSK	1	271	15.26	15.39	15.29			
100	QPSK	135	0	15.28	15.25	15.17	16.5	0.0	
100	QPSK	135	69	15.21	15.41	15.31	16.5	0.0	
100	QPSK	135	138	15.19	15.20	15.36	16.5	0.0	
100	QPSK	270	0	15.37	15.38	15.33			
100	16QAM	1	1	15.28	15.45	15.33	16.5	0.0	
100	64QAM	1	1	15.30	15.27	15.16	16.5	0.0	
100	256QAM	1	1	15.34	15.41	15.31	16.5	0.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3940	3930			
40	QPSK	1	1	15.37	15.31	15.29	16.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3940	3970.02			
20	QPSK	1	1	15.35	15.44	15.45	16.5	0.0	

Part27Q 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				633334	633334	635001			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1	15.29					
100	PI/2 BPSK	1	137	15.14			16.5	0.0	
100	PI/2 BPSK	1	271	15.26					
100	PI/2 BPSK	135	0	15.02			16.5	0.0	
100	PI/2 BPSK	135	69	15.23			16.5	0.0	
100	PI/2 BPSK	135	138	15.15			16.5	0.0	
100	PI/2 BPSK	270	0	15.14					
100	QPSK	1	1	15.32					
100	QPSK	1	137	15.20			16.5	0.0	
100	QPSK	1	271	15.21					
100	QPSK	135	0	15.08			16.5	0.0	
100	QPSK	135	69	15.26			16.5	0.0	
100	QPSK	135	138	15.19			16.5	0.0	
100	QPSK	270	0	15.16					
100	16QAM	1	1	15.22			16.5	0.0	
100	64QAM	1	1	15.14			16.5	0.0	
100	256QAM	1	1	15.12			16.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	15.27	15.18	15.18	16.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	15.20	15.29	15.24	16.5	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				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	14.97	14.96	14.97	16.5	0.0	
100	PI/2 BPSK	1	137	14.96	14.99	14.99			
100	PI/2 BPSK	1	271	14.99	14.80	14.80	16.5	0.0	
100	PI/2 BPSK	135	0	15.09	15.09	15.09	16.5	0.0	
100	PI/2 BPSK	135	69	15.02	14.95	14.95	16.5	0.0	
100	PI/2 BPSK	135	138	15.12	14.90	14.90	16.5	0.0	
100	PI/2 BPSK	270	0	14.95	14.95	14.95	16.5	0.0	
100	QPSK	1	1	14.90	14.95	14.95	16.5	0.0	
100	QPSK	1	137	14.95	14.82	14.82	16.5	0.0	
100	QPSK	1	271	14.82	15.11	15.11	16.5	0.0	
100	QPSK	135	0	15.11	14.82	14.82	16.5	0.0	
100	QPSK	135	69	14.82	14.97	14.97	16.5	0.0	
100	QPSK	135	138	14.94	14.94	14.94	16.5	0.0	
100	QPSK	270	0	14.99	15.08	15.08	16.5	0.0	
100	16QAM	1	1	15.08	15.08	15.08	16.5	0.0	
100	64QAM	1	1	15.08	15.08	15.08	16.5	0.0	
100	256QAM	1	1	15.08	15.08	15.08	16.5	0.0	
Channel				649334	650000	650688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	16.5	0.0	
80	QPSK	1	1	14.98	15.02	14.97	16.5	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3790	16.5	0.0	
40	QPSK	1	1	15.03	15.11	15.04	16.5	0.0	
Channel				647334	650000	652688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	16.5	0.0	
20	QPSK	1	1	15.01	14.98	15.01	16.5	0.0	

Part27Q 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				633334	633334	633334			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI/2 BPSK	1	1	15.00	15.00	15.00	16.5	0.0	
100	PI/2 BPSK	1	137	15.00	14.93	14.93			
100	PI/2 BPSK	1	271	14.93	14.81	14.81	16.5	0.0	
100	PI/2 BPSK	135	0	15.14	15.14	15.14	16.5	0.0	
100	PI/2 BPSK	135	69	15.01	15.01	15.01	16.5	0.0	
100	PI/2 BPSK	135	138	15.00	15.15	15.15	16.5	0.0	
100	PI/2 BPSK	270	0	14.95	14.95	14.95	16.5	0.0	
100	QPSK	1	1	14.95	15.05	15.05	16.5	0.0	
100	QPSK	1	137	15.05	14.97	14.97	16.5	0.0	
100	QPSK	1	271	14.97	15.13	15.13	16.5	0.0	
100	QPSK	135	0	15.13	15.03	15.03	16.5	0.0	
100	QPSK	135	69	15.03	15.11	15.11	16.5	0.0	
100	QPSK	135	138	15.11	15.01	15.01	16.5	0.0	
100	QPSK	270	0	15.01	15.08	15.08	16.5	0.0	
100	16QAM	1	1	15.08	15.08	15.08	16.5	0.0	
100	64QAM	1	1	15.08	15.08	15.08	16.5	0.0	
100	256QAM	1	1	15.08	15.08	15.08	16.5	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	16.5	0.0	
80	QPSK	1	1	15.03	15.08	14.99	16.5	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	16.5	0.0	
40	QPSK	1	1	15.04	15.13	15.00	16.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	16.5	0.0	
20	QPSK	1	1	15.10	15.07	15.09	16.5	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				650000	656000	662000			
Frequency (MHz)				3750	3940	3930			
100	PI/2 BPSK	1	1	14.94	15.06	14.99			
100	PI/2 BPSK	1	137	15.01	14.99	15.00	16.0	0.0	
100	PI/2 BPSK	1	271	14.88	14.92	14.90			
100	PI/2 BPSK	135	0	15.08	14.94	14.98	16.0	0.0	
100	PI/2 BPSK	135	69	15.02	15.05	14.88	16.0	0.0	
100	PI/2 BPSK	135	138	14.82	15.09	14.90			
100	PI/2 BPSK	270	0	14.99	14.89	14.87	16.0	0.0	
100	QPSK	1	1	15.07	15.12	14.91			
100	QPSK	1	137	15.11	14.92	15.03	16.0	0.0	
100	QPSK	1	271	14.96	14.94	15.01			
100	QPSK	135	0	14.99	14.85	14.84	16.0	0.0	
100	QPSK	135	69	15.01	15.06	14.95	16.0	0.0	
100	QPSK	135	138	14.88	14.98	14.88			
100	QPSK	270	0	14.98	15.03	14.98	16.0	0.0	
100	16QAM	1	1	14.92	15.07	15.02	16.0	0.0	
100	64QAM	1	1	14.90	14.82	14.81	16.0	0.0	
100	256QAM	1	1	14.44	14.50	14.27	15.5	0.5	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3940	3990			
40	QPSK	1	1	14.84	15.01	14.74	18.0	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3940	3970.02			
20	QPSK	1	1	14.93	14.98	14.80	16.0	0.0	

Part27Q 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				633334	633334	633334			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI/2 BPSK	1	1	15.17					
100	PI/2 BPSK	1	137	15.03			16.0	0.0	
100	PI/2 BPSK	1	271	15.01					
100	PI/2 BPSK	135	0	15.01			16.0	0.0	
100	PI/2 BPSK	135	69	15.12			16.0	0.0	
100	PI/2 BPSK	135	138	15.21					
100	PI/2 BPSK	270	0	14.96			16.0	0.0	
100	QPSK	1	1	15.22					
100	QPSK	1	137	15.08			16.0	0.0	
100	QPSK	1	271	15.06					
100	QPSK	135	0	15.02			16.0	0.0	
100	QPSK	135	69	15.18			16.0	0.0	
100	QPSK	135	138	15.02					
100	QPSK	270	0	15.02			16.0	0.0	
100	16QAM	1	1	15.18			16.0	0.0	
100	64QAM	1	1	15.10			16.0	0.0	
100	256QAM	1	1	14.55			15.5	0.5	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	15.18	15.05	15.19	18.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	QPSK	1	1	15.08	15.10	15.14	16.0	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				650000	650000	650000			
Frequency (MHz)				3750	3750	3750			
100	PI/2 BPSK	1	1	15.06	15.06	15.06	16.0	0.0	
100	PI/2 BPSK	1	137	14.98	14.98	14.98	16.0	0.0	
100	PI/2 BPSK	1	271	15.04	15.04	15.04	16.0	0.0	
100	PI/2 BPSK	135	0	14.94	14.94	14.94	16.0	0.0	
100	PI/2 BPSK	135	69	14.96	14.96	14.96	16.0	0.0	
100	PI/2 BPSK	135	138	15.07	15.07	15.07	16.0	0.0	
100	PI/2 BPSK	270	0	14.84	14.84	14.84	16.0	0.0	
100	QPSK	1	1	15.08	15.08	15.08	16.0	0.0	
100	QPSK	1	137	14.98	14.98	14.98	16.0	0.0	
100	QPSK	1	271	15.00	15.00	15.00	16.0	0.0	
100	QPSK	135	0	14.93	14.93	14.93	16.0	0.0	
100	QPSK	135	69	15.06	15.06	15.06	16.0	0.0	
100	QPSK	135	138	14.98	14.98	14.98	16.0	0.0	
100	QPSK	270	0	15.02	15.02	15.02	16.0	0.0	
100	16QAM	1	1	15.03	15.03	15.03	16.0	0.0	
100	64QAM	1	1	14.88	14.88	14.88	16.0	0.0	
100	256QAM	1	1	14.38	14.38	14.38	15.5	0.5	
Channel				649334	650000	650688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3750	3760.02	16.0	0.0	
80	QPSK	1	1	14.89	14.89	15.01	16.0	0.0	
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3750	3780	16.0	0.0	
40	QPSK	1	1	15.02	14.92	14.91	16.0	0.0	
Channel				647334	650000	652688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3750	3790.02	16.0	0.0	
20	QPSK	1	1	14.90	15.04	14.97	16.0	0.0	

Part27Q 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				633334	633334	633334			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI/2 BPSK	1	1	15.00	15.00	15.00	16.0	0.0	
100	PI/2 BPSK	1	137	15.01	15.01	15.01	16.0	0.0	
100	PI/2 BPSK	1	271	14.95	14.95	14.95	16.0	0.0	
100	PI/2 BPSK	135	0	14.78	14.78	14.78	16.0	0.0	
100	PI/2 BPSK	135	69	15.02	15.02	15.02	16.0	0.0	
100	PI/2 BPSK	135	138	14.89	14.89	14.89	16.0	0.0	
100	PI/2 BPSK	270	0	14.87	14.87	14.87	16.0	0.0	
100	QPSK	1	1	15.03	15.03	15.03	16.0	0.0	
100	QPSK	1	137	14.82	14.82	14.82	16.0	0.0	
100	QPSK	1	271	14.91	14.91	14.91	16.0	0.0	
100	QPSK	135	0	14.87	14.87	14.87	16.0	0.0	
100	QPSK	135	69	14.98	14.98	14.98	16.0	0.0	
100	QPSK	135	138	14.84	14.84	14.84	16.0	0.0	
100	QPSK	270	0	14.93	14.93	14.93	16.0	0.0	
100	16QAM	1	1	14.91	14.91	14.91	16.0	0.0	
100	64QAM	1	1	14.91	14.91	14.91	16.0	0.0	
100	256QAM	1	1	14.39	14.39	14.39	15.5	0.5	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510	16.0	0.0	
80	QPSK	1	1	14.91	15.01	15.00	16.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	16.0	0.0	
40	QPSK	1	1	14.91	14.98	14.90	16.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	16.0	0.0	
20	QPSK	1	1	14.94	15.02	14.94	16.0	0.0	



Part270 n77 Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3940	3930			
100	PI/2 BPSK	1	1	18.18	18.40	18.37	19.5	0.0	
100	PI/2 BPSK	1	137	18.67	18.71	18.52			
100	PI/2 BPSK	1	271	18.61	18.64	18.67			
100	PI/2 BPSK	135	0	17.91	17.94	17.77	19.0	0.5	
100	PI/2 BPSK	135	69	18.61	18.61	18.62	19.5	0.0	
100	PI/2 BPSK	135	138	18.01	18.10	17.95	19.0	0.5	
100	PI/2 BPSK	270	0	18.08	18.06	17.97			
100	PI/2 BPSK	270	1	18.61	18.65	18.73			
100	QPSK	1	1	18.80	18.76	18.67	19.5	0.0	
100	QPSK	1	137	18.63	18.77	18.74			
100	QPSK	1	271	17.39	17.45	17.20			
100	QPSK	135	0	17.39	17.45	17.20	18.5	1.0	
100	QPSK	135	69	18.53	18.64	18.62	19.5	0.0	
100	QPSK	135	138	17.52	17.62	17.54	18.5	1.0	
100	QPSK	270	0	17.49	17.59	17.54			
100	QPSK	270	1	17.37	17.54	17.57			
100	16QAM	1	1	17.37	17.54	17.57	18.5	1.0	
100	64QAM	1	1	15.84	16.04	15.94	17.0	2.5	
100	256QAM	1	1	13.74	13.98	13.76	15.0	4.5	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3940	3990	19.5	0.0	
40	QPSK	1	1	18.64	18.76	18.76	19.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3940	3970.02	19.5	0.0	
20	QPSK	1	1	18.42	18.77	18.51	19.5	0.0	

Part27Q n77 Ant 10									
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				633334	633334	633334			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI/2 BPSK	1	1	18.58	18.58	18.58	19.5	0.0	
100	PI/2 BPSK	1	137	18.42	18.42	18.42			
100	PI/2 BPSK	1	271	18.38	18.38	18.38			
100	PI/2 BPSK	135	0	17.98	17.98	17.98	19.0	0.5	
100	PI/2 BPSK	135	69	18.38	18.38	18.38	19.5	0.0	
100	PI/2 BPSK	135	138	17.87	17.87	17.87	19.0	0.5	
100	PI/2 BPSK	270	0	17.91	17.91	17.91			
100	PI/2 BPSK	270	1	18.64	18.64	18.64			
100	QPSK	1	1	18.62	18.62	18.62	19.5	0.0	
100	QPSK	1	137	18.49	18.49	18.49			
100	QPSK	1	271	17.46	17.46	17.46			
100	QPSK	135	0	18.41	18.41	18.41	18.5	1.0	
100	QPSK	135	69	17.37	17.37	17.37	18.5	1.0	
100	QPSK	135	138	17.44	17.44	17.44			
100	QPSK	270	0	17.74	17.74	17.74			
100	16QAM	1	1	16.20	16.20	16.20	18.5	1.0	
100	64QAM	1	1	14.17	14.17	14.17	17.0	2.5	
100	256QAM	1	1	12.14	12.14	12.14	15.0	4.5	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	19.5	0.0	
40	QPSK	1	1	18.58	18.49	18.57	19.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	19.5	0.0	
20	QPSK	1	1	18.50	18.49	18.56	19.5	0.0	



Part270 n78 Ant 10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	17.95			19.5	0.0
100	PI/2 BPSK	1	137	18.07				
100	PI/2 BPSK	1	271	18.41				
100	PI/2 BPSK	135	0	17.45			19.0	0.5
100	PI/2 BPSK	135	69	18.07			19.5	0.0
100	PI/2 BPSK	135	138	17.61			19.0	0.5
100	PI/2 BPSK	270	0	17.57				
100	QPSK	1	1	18.55				
100	QPSK	1	137	18.19			19.5	0.0
100	QPSK	1	271	18.38				
100	QPSK	135	0	16.94			18.5	1.0
100	QPSK	135	69	18.31			19.5	0.0
100	QPSK	135	138	17.08			18.5	1.0
100	QPSK	270	0	17.06				
100	16QAM	1	1	17.01			18.5	1.0
100	64QAM	1	1	15.48			17.0	2.5
100	256QAM	1	1	13.47			15.0	4.5
Channel				649334	650000	650688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02	19.5	0.0
80	QPSK	1	1	18.33	18.37	18.50	19.5	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3790	19.5	0.0
40	QPSK	1	1	18.44	18.37	18.41	19.5	0.0
Channel				647334	650000	652688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02	19.5	0.0
20	QPSK	1	1	18.41	18.54	18.39	19.5	0.0

Part27Q n78 Ant 10								
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				633334	633334	633334		
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1	18.25			19.5	0.0
100	PI/2 BPSK	1	137	18.30				
100	PI/2 BPSK	1	271	18.20				
100	PI/2 BPSK	135	0	17.80			19.0	0.5
100	PI/2 BPSK	135	69	18.25			19.5	0.0
100	PI/2 BPSK	135	138	17.71			19.0	0.5
100	PI/2 BPSK	270	0	17.75				
100	QPSK	1	1	18.39				
100	QPSK	1	137	18.37			19.5	0.0
100	QPSK	1	271	18.33				
100	QPSK	135	0	17.23			18.5	1.0
100	QPSK	135	69	18.21			19.5	0.0
100	QPSK	135	138	17.20			18.5	1.0
100	QPSK	270	0	17.25				
100	16QAM	1	1	17.43			18.5	1.0
100	64QAM	1	1	15.99			17.0	2.5
100	256QAM	1	1	13.30			15.0	4.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	19.5	0.0
80	QPSK	1	1	18.21	18.27	18.19	19.5	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	19.5	0.0
40	QPSK	1	1	18.34	18.14	18.15	19.5	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	19.5	0.0
20	QPSK	1	1	18.23	18.37	18.16	19.5	0.0



Receiver Off Power

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				650000	656000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI/2 BPSK	1	1	17.81	17.87	17.75	19.5	0.0	
100	PI/2 BPSK	1	137	17.71	17.81	17.75			
100	PI/2 BPSK	1	271	17.58	17.73	17.71			
100	PI/2 BPSK	135	0	17.71	17.62	17.82	19.5	0.0	
100	PI/2 BPSK	135	69	17.76	17.81	17.55	19.5	0.0	
100	PI/2 BPSK	135	138	17.68	17.83	17.74	19.5	0.0	
100	PI/2 BPSK	270	0	17.67	17.55	17.71			
100	QPSK	1	1	17.84	17.89	17.84			
100	QPSK	1	137	17.72	17.62	17.82	19.5	0.0	
100	QPSK	1	271	17.74	17.76	17.68			
100	QPSK	135	0	17.70	17.55	17.63			
100	QPSK	135	69	17.81	17.85	17.77	19.5	0.0	
100	QPSK	135	138	17.56	17.72	17.64	19.5	0.0	
100	QPSK	270	0	17.79	17.82	17.76			
100	16QAM	1	1	17.60	17.85	17.82			
100	64QAM	1	1	17.66	17.66	17.54	19.5	0.0	
100	256QAM	1	1	17.84	17.75	17.65	19.5	0.0	
Channel				648000	656000	664000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)	
40	QPSK	1	1	17.84	17.88	17.74	19.5	0.0	
Channel				647334	656000	664668	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3970.02	(dBm)	(dB)	
20	QPSK	1	1	17.71	17.83	17.69	19.5	0.0	

Part27Q 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					633334				
Frequency (MHz)					3500.01				
100	PI/2 BPSK	1	1		17.93		19.5	0.0	
100	PI/2 BPSK	1	137		17.81				
100	PI/2 BPSK	1	271		17.77				
100	PI/2 BPSK	135	0		17.59		19.5	0.0	
100	PI/2 BPSK	135	69		17.89		19.5	0.0	
100	PI/2 BPSK	135	138		17.92		19.5	0.0	
100	PI/2 BPSK	270	0		17.76				
100	QPSK	1	1		17.94				
100	QPSK	1	137		17.66		19.5	0.0	
100	QPSK	1	271		17.77				
100	QPSK	135	0		17.65				
100	QPSK	135	69		17.92		19.5	0.0	
100	QPSK	135	138		17.70		19.5	0.0	
100	QPSK	270	0		17.86				
100	16QAM	1	1		17.87				
100	64QAM	1	1		17.78		19.5	0.0	
100	256QAM	1	1		17.86		19.5	0.0	
Channel				631334	633334	635334	Tune-up limit	MPR	
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)	
40	QPSK	1	1		17.89	17.81	17.89	19.5	0.0
Channel				630668	633334	636000	Tune-up limit	MPR	
Frequency (MHz)				3480.02	3500.01	3540	(dBm)	(dB)	
20	QPSK	1	1		17.83	17.92	17.86	19.5	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				650000				
Frequency (MHz)				3750				
100	PI/2 BPSK	1	1	17.74			19.5	0.0
100	PI/2 BPSK	1	137	17.72				
100	PI/2 BPSK	1	271	17.58				
100	PI/2 BPSK	135	0	17.54			19.5	0.0
100	PI/2 BPSK	135	69	17.83			19.5	0.0
100	PI/2 BPSK	135	138	17.73			19.5	0.0
100	PI/2 BPSK	270	0	17.61			19.5	0.0
100	QPSK	1	1	17.84			19.5	0.0
100	QPSK	1	137	17.56				
100	QPSK	1	271	17.66				
100	QPSK	135	0	17.60			19.5	0.0
100	QPSK	135	69	17.81			19.5	0.0
100	QPSK	135	138	17.65			19.5	0.0
100	QPSK	270	0	17.77			19.5	0.0
100	16QAM	1	1	17.80			19.5	0.0
100	64QAM	1	1	17.64			19.5	0.0
100	256QAM	1	1	17.71			19.5	0.0
Channel				649334	650000	650668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3760.02	(dBm)	(dB)
80	QPSK	1	1	17.79	17.78	17.73	19.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)
40	QPSK	1	1	17.74	17.79	17.70	19.5	0.0
Channel				647334	650000	652668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3790.02	(dBm)	(dB)
20	QPSK	1	1	17.72	17.78	17.66	19.5	0.0

Part27Q 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				633334				
Frequency (MHz)				3500.01				
100	PI/2 BPSK	1	1	17.64			19.5	0.0
100	PI/2 BPSK	1	137	17.71				
100	PI/2 BPSK	1	271	17.67				
100	PI/2 BPSK	135	0	17.63			19.5	0.0
100	PI/2 BPSK	135	69	17.77			19.5	0.0
100	PI/2 BPSK	135	138	17.65			19.5	0.0
100	PI/2 BPSK	270	0	17.63			19.5	0.0
100	QPSK	1	1	17.80			19.5	0.0
100	QPSK	1	137	17.72				
100	QPSK	1	271	17.60				
100	QPSK	135	0	17.69			19.5	0.0
100	QPSK	135	69	17.77			19.5	0.0
100	QPSK	135	138	17.60			19.5	0.0
100	QPSK	270	0	17.72			19.5	0.0
100	16QAM	1	1	17.72			19.5	0.0
100	64QAM	1	1	17.63			19.5	0.0
100	256QAM	1	1	17.77			19.5	0.0
Channel				632668	633334	634000	Tune-up limit	MPR
Frequency (MHz)				3490.02	3500.01	3510	(dBm)	(dB)
80	QPSK	1	1	17.66	17.78	17.77	19.5	0.0
Channel				631334	633334	635334	Tune-up limit	MPR
Frequency (MHz)				3470.01	3500.01	3530.01	(dBm)	(dB)
40	QPSK	1	1	17.75	17.65	17.65	19.5	0.0
Channel				630668	633334	636000	Tune-up limit	MPR
Frequency (MHz)				3460.02	3500.01	3540	(dBm)	(dB)
20	QPSK	1	1	17.63	17.68	17.62	19.5	0.0



Part270 n77 Ant 5								
5	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	656000	662000		
Frequency (MHz)				3750	3940	3930		
100	PI/2 BPSK	1	1	18.77	18.94	18.79		
100	PI/2 BPSK	1	137	18.69	18.73	18.71	20.0	0.0
100	PI/2 BPSK	1	271	18.66	18.74	18.72		
100	PI/2 BPSK	135	0	18.75	18.55	18.79	20.0	0.0
100	PI/2 BPSK	135	69	18.84	18.62	18.48	20.0	0.0
100	PI/2 BPSK	135	138	18.66	18.92	18.77	20.0	0.0
100	PI/2 BPSK	270	0	18.70	18.50	18.77		
100	QPSK	1	1	18.75	18.95	18.89		
100	QPSK	1	137	18.66	18.60	18.77	20.0	0.0
100	QPSK	1	271	18.74	18.76	18.65		
100	QPSK	135	0	18.67	18.63	18.65	20.0	0.0
100	QPSK	135	69	18.83	18.65	18.81	20.0	0.0
100	QPSK	135	138	18.54	18.77	18.65	20.0	0.0
100	QPSK	270	0	18.71	18.62	18.75		
100	16QAM	1	1	18.59	18.91	18.87	20.0	0.0
100	64QAM	1	1	18.69	18.70	18.45	20.0	0.0
100	256QAM	1	1	17.08	17.21	17.05	18.5	1.5
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3940	3990		
40	QPSK	1	1	18.78	18.86	18.76	20.0	0.0
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3940	3970.02		
20	QPSK	1	1	18.70	18.74	18.60	20.0	0.0

Part27Q 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				631334	633334	635334		
Frequency (MHz)				3470.01	3500.01	3530.01		
100	PI/2 BPSK	1	1	18.73			20.0	0.0
100	PI/2 BPSK	1	137	18.67				
100	PI/2 BPSK	1	271	18.74				
100	PI/2 BPSK	135	0	18.70			20.0	0.0
100	PI/2 BPSK	135	69	18.71			20.0	0.0
100	PI/2 BPSK	135	138	18.64			20.0	0.0
100	PI/2 BPSK	270	0	18.68				
100	QPSK	1	1	18.81				
100	QPSK	1	137	18.75			20.0	0.0
100	QPSK	1	271	18.57				
100	QPSK	135	0	18.68			20.0	0.0
100	QPSK	135	69	18.76			20.0	0.0
100	QPSK	135	138	18.64			20.0	0.0
100	QPSK	270	0	18.71				
100	16QAM	1	1	18.70			20.0	0.0
100	64QAM	1	1	18.70			20.0	0.0
100	256QAM	1	1	17.25			18.5	1.5
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	18.70	18.71	18.79	20.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	18.73	18.74	18.58	20.0	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				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	18.48	18.48	18.48		
100	PI/2 BPSK	1	137	18.62	18.62	18.62	20.0	0.0
100	PI/2 BPSK	1	271	18.60	18.60	18.60		
100	PI/2 BPSK	135	0	18.47	18.47	18.47	20.0	0.0
100	PI/2 BPSK	135	69	18.61	18.61	18.61	20.0	0.0
100	PI/2 BPSK	135	138	18.49	18.49	18.49	20.0	0.0
100	PI/2 BPSK	270	0	18.49	18.49	18.49		
100	QPSK	1	1	18.76	18.76	18.76		
100	QPSK	1	137	18.60	18.60	18.60	20.0	0.0
100	QPSK	1	271	18.50	18.50	18.50		
100	QPSK	135	0	18.66	18.66	18.66	20.0	0.0
100	QPSK	135	69	18.74	18.74	18.74	20.0	0.0
100	QPSK	135	138	18.52	18.52	18.52	20.0	0.0
100	QPSK	270	0	18.71	18.71	18.71		
100	16QAM	1	1	18.65	18.65	18.65	20.0	0.0
100	64QAM	1	1	18.55	18.55	18.55	20.0	0.0
100	256QAM	1	1	18.78	18.78	18.78	18.5	1.5
Channel				649334	650000	650688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02	20.0	0.0
80	QPSK	1	1	18.33	18.71	18.78		
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3790	20.0	0.0
40	QPSK	1	1	18.69	18.52	18.54		
Channel				647334	650000	652688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02	20.0	0.0
20	QPSK	1	1	18.49	18.50	18.52		

Part27Q 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				633334	633334	633334		
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1	18.40	18.40	18.40		
100	PI/2 BPSK	1	137	18.44	18.44	18.44	20.0	0.0
100	PI/2 BPSK	1	271	18.51	18.51	18.51		
100	PI/2 BPSK	135	0	18.41	18.41	18.41	20.0	0.0
100	PI/2 BPSK	135	69	18.60	18.60	18.60	20.0	0.0
100	PI/2 BPSK	135	138	18.51	18.51	18.51	20.0	0.0
100	PI/2 BPSK	270	0	18.50	18.50	18.50		
100	QPSK	1	1	18.68	18.68	18.68		
100	QPSK	1	137	18.50	18.50	18.50	20.0	0.0
100	QPSK	1	271	18.40	18.40	18.40		
100	QPSK	135	0	18.55	18.55	18.55	20.0	0.0
100	QPSK	135	69	18.56	18.56	18.56	20.0	0.0
100	QPSK	135	138	18.42	18.42	18.42	20.0	0.0
100	QPSK	270	0	18.46	18.46	18.46		
100	16QAM	1	1	18.44	18.44	18.44	20.0	0.0
100	64QAM	1	1	18.47	18.47	18.47	20.0	0.0
100	256QAM	1	1	17.01	17.01	17.01	18.5	1.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	20.0	0.0
80	QPSK	1	1	18.43	18.54	18.63		
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	20.0	0.0
40	QPSK	1	1	18.64	18.50	18.44		
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	20.0	0.0
20	QPSK	1	1	18.51	18.41	18.34		



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				650000	656000	662000			
Frequency (MHz)				3750	3940	3930			
100	PI/2 BPSK	1	1	17.80	17.95	17.82			
100	PI/2 BPSK	1	137	17.77	17.83	17.77	19.0	0.0	
100	PI/2 BPSK	1	271	17.88	17.66	17.56			
100	PI/2 BPSK	135	0	17.59	17.81	17.79	19.0	0.0	
100	PI/2 BPSK	135	69	17.76	17.89	17.83	19.0	0.0	
100	PI/2 BPSK	135	138	17.49	17.68	17.55	19.0	0.0	
100	PI/2 BPSK	270	0	17.70	17.82	17.66			
100	QPSK	1	1	18.02	18.19	17.88			
100	QPSK	1	137	17.81	17.96	17.87	19.0	0.0	
100	QPSK	1	271	17.63	17.90	17.70			
100	QPSK	135	0	17.74	17.81	17.76	19.0	0.0	
100	QPSK	135	69	17.68	17.96	17.74	19.0	0.0	
100	QPSK	135	138	17.55	17.69	17.53	19.0	0.0	
100	QPSK	270	0	17.86	17.98	17.95			
100	16QAM	1	1	17.88	18.14	17.95	19.0	0.0	
100	64QAM	1	1	17.85	17.99	17.79	19.0	0.0	
100	256QAM	1	1	15.94	16.00	15.77	17.0	2.0	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3940	3990			
40	QPSK	1	1	17.81	17.89	17.81	19.0	0.0	
Channel				647334	656000	664688	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3940	3970.02			
20	QPSK	1	1	17.97	17.99	17.81	19.0	0.0	

Part27Q 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				633334	633334	633334			
Frequency (MHz)				3500.01					
100	PI/2 BPSK	1	1		17.90				
100	PI/2 BPSK	1	137		17.81		19.0	0.0	
100	PI/2 BPSK	1	271		17.60				
100	PI/2 BPSK	135	0		17.74		19.0	0.0	
100	PI/2 BPSK	135	69		17.74		19.0	0.0	
100	PI/2 BPSK	135	138		17.60		19.0	0.0	
100	PI/2 BPSK	270	0		17.72				
100	QPSK	1	1		18.09				
100	QPSK	1	137		17.92		19.0	0.0	
100	QPSK	1	271		17.75				
100	QPSK	135	0		17.71		19.0	0.0	
100	QPSK	135	69		17.82		19.0	0.0	
100	QPSK	135	138		17.56		19.0	0.0	
100	QPSK	270	0		17.78				
100	16QAM	1	1		18.06		19.0	0.0	
100	64QAM	1	1		18.01		19.0	0.0	
100	256QAM	1	1		16.05		17.0	2.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	QPSK	1	1	17.90	17.94	17.59	19.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3466.02	3500.01	3540			
20	QPSK	1	1	17.88	17.92	17.69	19.0	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				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	17.74	17.74	17.74		
100	PI/2 BPSK	1	137	17.63	17.63	17.63	19.0	0.0
100	PI/2 BPSK	1	271	17.49	17.49	17.49		
100	PI/2 BPSK	135	0	17.70	17.70	17.70	19.0	0.0
100	PI/2 BPSK	135	69	17.66	17.66	17.66	19.0	0.0
100	PI/2 BPSK	135	138	17.50	17.50	17.50	19.0	0.0
100	PI/2 BPSK	270	0	17.69	17.69	17.69		
100	QPSK	1	1	17.97	17.97	17.97		
100	QPSK	1	137	17.79	17.79	17.79	19.0	0.0
100	QPSK	1	271	17.62	17.62	17.62		
100	QPSK	135	0	17.69	17.69	17.69	19.0	0.0
100	QPSK	135	69	17.66	17.66	17.66	19.0	0.0
100	QPSK	135	138	17.51	17.51	17.51	19.0	0.0
100	QPSK	270	0	17.68	17.68	17.68		
100	16QAM	1	1	17.91	17.91	17.91	19.0	0.0
100	64QAM	1	1	17.87	17.87	17.87	19.0	0.0
100	256QAM	1	1	15.88	15.88	15.88	17.0	2.0
Channel				649334	650000	650688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02	19.0	0.0
80	QPSK	1	1	17.72	17.86	17.52	19.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3780	19.0	0.0
40	QPSK	1	1	17.77	17.82	17.51	19.0	0.0
Channel				647334	650000	652688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02	19.0	0.0
20	QPSK	1	1	17.72	17.86	17.50	19.0	0.0

Part27Q 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				633334	633334	633334		
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1	17.79	17.79	17.79		
100	PI/2 BPSK	1	137	17.71	17.71	17.71	19.0	0.0
100	PI/2 BPSK	1	271	17.56	17.56	17.56		
100	PI/2 BPSK	135	0	17.80	17.80	17.80	19.0	0.0
100	PI/2 BPSK	135	69	17.63	17.63	17.63	19.0	0.0
100	PI/2 BPSK	135	138	17.45	17.45	17.45	19.0	0.0
100	PI/2 BPSK	270	0	17.66	17.66	17.66		
100	QPSK	1	1	17.93	17.93	17.93		
100	QPSK	1	137	17.84	17.84	17.84	19.0	0.0
100	QPSK	1	271	17.67	17.67	17.67		
100	QPSK	135	0	17.63	17.63	17.63	19.0	0.0
100	QPSK	135	69	17.66	17.66	17.66	19.0	0.0
100	QPSK	135	138	17.49	17.49	17.49	19.0	0.0
100	QPSK	270	0	17.74	17.74	17.74		
100	16QAM	1	1	17.96	17.96	17.96	19.0	0.0
100	64QAM	1	1	17.90	17.90	17.90	19.0	0.0
100	256QAM	1	1	15.89	15.89	15.89	17.0	2.0
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	19.0	0.0
80	QPSK	1	1	17.77	17.81	17.59	19.0	0.0
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	19.0	0.0
40	QPSK	1	1	17.79	17.77	17.57	19.0	0.0
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	19.0	0.0
20	QPSK	1	1	17.73	17.77	17.51	19.0	0.0



Part270 n77 Ant 10									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				650000	656000	662000			
Frequency (MHz)				3750	3940	3930			
100	PI/2 BPSK	1	1	18.18	18.40	18.37	19.5	0.0	
100	PI/2 BPSK	1	137	18.67	18.71	18.52			
100	PI/2 BPSK	1	271	18.61	18.64	18.67			
100	PI/2 BPSK	135	0	17.91	17.94	17.77	19.0	0.5	
100	PI/2 BPSK	135	69	18.61	18.61	18.62	19.5	0.0	
100	PI/2 BPSK	135	138	18.01	18.10	17.95	19.0	0.5	
100	PI/2 BPSK	270	0	18.08	18.06	17.97			
100	PI/2 BPSK	270	1	18.61	18.65	18.73			
100	QPSK	1	1	18.80	18.76	18.67	19.5	0.0	
100	QPSK	1	137	18.63	18.77	18.74			
100	QPSK	1	271	18.63	18.77	18.74			
100	QPSK	135	0	17.39	17.45	17.20	18.5	1.0	
100	QPSK	135	69	18.53	18.64	18.62	19.5	0.0	
100	QPSK	135	138	17.52	17.62	17.54	18.5	1.0	
100	QPSK	270	0	17.49	17.59	17.54			
100	QPSK	270	1	17.37	17.54	17.57			
100	16QAM	1	1	17.37	17.54	17.57	18.5	1.0	
100	64QAM	1	1	15.84	16.04	15.94	17.0	2.5	
100	256QAM	1	1	13.74	13.98	13.76	15.0	4.5	
Channel				648000	656000	664000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3940	3990	19.5	0.0	
40	QPSK	1	1	18.64	18.76	18.76	19.5	0.0	
Channel				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3940	3970.02	19.5	0.0	
20	QPSK	1	1	18.42	18.77	18.51	19.5	0.0	

Part27Q n77 Ant 10									
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				633334	633334	633334			
Frequency (MHz)				3500.01	3500.01	3500.01			
100	PI/2 BPSK	1	1	18.58	18.58	18.58	19.5	0.0	
100	PI/2 BPSK	1	137	18.42	18.42	18.42			
100	PI/2 BPSK	1	271	18.38	18.38	18.38			
100	PI/2 BPSK	135	0	17.98	17.98	17.98	19.0	0.5	
100	PI/2 BPSK	135	69	18.38	18.38	18.38	19.5	0.0	
100	PI/2 BPSK	135	138	17.87	17.87	17.87	19.0	0.5	
100	PI/2 BPSK	270	0	17.91	17.91	17.91			
100	PI/2 BPSK	270	1	18.64	18.64	18.64			
100	QPSK	1	1	18.62	18.62	18.62	19.5	0.0	
100	QPSK	1	137	18.62	18.62	18.62			
100	QPSK	1	271	18.49	18.49	18.49			
100	QPSK	135	0	17.46	17.46	17.46	18.5	1.0	
100	QPSK	135	69	18.41	18.41	18.41	19.5	0.0	
100	QPSK	135	138	17.37	17.37	17.37	18.5	1.0	
100	QPSK	270	0	17.44	17.44	17.44			
100	QPSK	270	1	17.74	17.74	17.74			
100	16QAM	1	1	16.20	16.20	16.20	18.5	1.0	
100	64QAM	1	1	14.17	14.17	14.17	17.0	2.5	
100	256QAM	1	1	12.14	12.14	12.14	15.0	4.5	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01	19.5	0.0	
40	QPSK	1	1	18.58	18.49	18.57	19.5	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540	19.5	0.0	
20	QPSK	1	1	18.50	18.49	18.56	19.5	0.0	



Part270 n78 Ant 10								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				650000	650000	650000		
Frequency (MHz)				3750	3750	3750		
100	PI/2 BPSK	1	1	17.95				
100	PI/2 BPSK	1	137	18.07			19.5	0.0
100	PI/2 BPSK	1	271	18.41				
100	PI/2 BPSK	135	0	17.45			19.0	0.5
100	PI/2 BPSK	135	69	18.07			19.5	0.0
100	PI/2 BPSK	135	138	17.61			19.0	0.5
100	PI/2 BPSK	270	0	17.57				
100	QPSK	1	1	18.55				
100	QPSK	1	137	18.19			19.5	0.0
100	QPSK	1	271	18.38				
100	QPSK	135	0	16.94			18.5	1.0
100	QPSK	135	69	18.31			19.5	0.0
100	QPSK	135	138	17.08			18.5	1.0
100	QPSK	270	0	17.06				
100	16QAM	1	1	17.01			18.5	1.0
100	64QAM	1	1	15.48			17.0	2.5
100	256QAM	1	1	13.47			15.0	4.5
Channel				649334	650000	650688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3740.01	3750	3760.02	19.5	0.0
80	QPSK	1	1	18.33	18.37	18.50		
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3720	3750	3790	19.5	0.0
40	QPSK	1	1	18.44	18.37	18.41		
Channel				647334	650000	652688	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3710.01	3750	3790.02	19.5	0.0
20	QPSK	1	1	18.41	18.54	18.39		

Part27Q n78 Ant 10								
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				633334	633334	633334		
Frequency (MHz)				3500.01	3500.01	3500.01		
100	PI/2 BPSK	1	1	18.25				
100	PI/2 BPSK	1	137	18.30			19.5	0.0
100	PI/2 BPSK	1	271	18.20				
100	PI/2 BPSK	135	0	17.80			19.0	0.5
100	PI/2 BPSK	135	69	18.25			19.5	0.0
100	PI/2 BPSK	135	138	17.71			19.0	0.5
100	PI/2 BPSK	270	0	17.75				
100	QPSK	1	1	18.39				
100	QPSK	1	137	18.37			19.5	0.0
100	QPSK	1	271	18.33				
100	QPSK	135	0	17.23			18.5	1.0
100	QPSK	135	69	18.21			19.5	0.0
100	QPSK	135	138	17.20			18.5	1.0
100	QPSK	270	0	17.25				
100	16QAM	1	1	17.43			18.5	1.0
100	64QAM	1	1	15.99			17.0	2.5
100	256QAM	1	1	13.90			15.0	4.5
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490.02	3500.01	3510	19.5	0.0
80	QPSK	1	1	18.21	18.27	18.19		
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3500.01	3530.01	19.5	0.0
40	QPSK	1	1	18.34	18.14	18.15		
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3500.01	3540	19.5	0.0
20	QPSK	1	1	18.23	18.37	18.16		

<Bluetooth>						
Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			1Mbps	2Mbps	3Mbps	
BR / EDR	CH 00	2402	8.88	7.44	7.96	10.50
	CH 39	2441	9.39	8.45	8.30	10.50
	CH 74	2480	9.32	7.60	8.15	10.50

BLE 1M						
Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			GFSK			
LE	CH 00	2402	8.03			
	CH 19	2440	8.08			
	CH 38	2478	8.33			
	Tune-up Limit		10.00			

BLE 2M						
Mode	Channel	Frequency (MHz)	Average power (dBm)			Tune-up Limit
			2Mbps			
LE	CH 01	2404	7.98			
	CH 19	2440	8.19			
	CH 38	2478	8.22			
	Tune-up Limit		9.50			