



Band 2 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./Ch.F.Freq.	Power Hsp./Ch.F.Freq.	Time-up (min)	MPR (dB)	
20	QPSK	1	0	23.14	23.12	23.13			
20	QPSK	1	49	23.14	23.12	23.13			
20	QPSK	1	99	23.11	22.99	22.95		24	0
20	QPSK	50	0	22.92	22.93	22.12			
20	QPSK	50	24	22.92	22.93	22.12			
20	QPSK	50	49	22.99	22.17	21.99		23	1
20	QPSK	100	0	22.21	22.22	21.98			
20	QPSK	100	24	22.11	22.12	22.27			
20	QPSK	100	49	22.21	22.10	22.15		23	1
20	QPSK	1	99	22.32	22.29	22.15			
20	QPSK	50	0	21.96	21.92	21.12			
20	QPSK	50	24	21.93	21.22	21.96		22	2
20	QPSK	50	49	21.17	21.13	21.16			
20	QPSK	100	0	21.13	21.09	21.23			
20	QPSK	100	24	21.13	21.14	21.20		22	2
20	QPSK	100	49	20.17	20.13	20.25			
20	QPSK	24	24	20.97	20.96	20.22		21	3
20	QPSK	24	49	20.95	20.92	20.98			
20	QPSK	100	0	20.20	20.20	20.22			
20	QPSK	100	24	18.91	18.87	18.91		19	5
20	QPSK	100	49	18.12	18.18	18.02			
20	QPSK	50	0	18.95	18.27	18.14			
20	QPSK	50	24	18.94	18.18	18.17		19	5
20	QPSK	50	49	18.07	18.06	18.13			
20	QPSK	100	0	18.95	18.27	18.27			
20	QPSK	100	24	18.95	18.90	18.25			
20	QPSK	100	49	18.95	18.90	18.25			
20	QPSK	1	99	22.99	22.92	22.92			
20	QPSK	1	49	22.97	22.87	22.84		24	0
20	QPSK	36	0	22.98	22.17	21.98			
20	QPSK	36	24	21.97	21.98	21.99		23	1
20	QPSK	36	39	21.98	21.98	21.92			
20	QPSK	75	0	22.21	22.22	21.95			
20	QPSK	75	24	21.95	22.24	22.09		23	1
20	QPSK	1	37	22.18	21.92	22.13		23	1
20	QPSK	1	74	22.18	21.92	22.13			
20	QPSK	36	39	21.92	20.97	20.98		22	2
20	QPSK	36	20	20.98	21.24	21.00			
20	QPSK	75	0	21.95	21.92	21.92		22	2
20	QPSK	75	24	21.96	21.92	21.12			
20	QPSK	1	9	20.88	20.91	21.07		22	2
20	QPSK	1	49	21.13	21.09	21.00			
20	QPSK	1	74	21.25	21.00	21.00		21	3
20	QPSK	36	0	20.10	20.96	20.18			
20	QPSK	36	24	20.95	20.92	20.98		21	3
20	QPSK	36	39	20.27	20.92	19.96			
20	QPSK	75	0	20.20	20.67	20.14			
20	QPSK	75	24	19.95	19.95	19.98		19	5
20	QPSK	75	39	17.96	17.96	17.93			
20	QPSK	1	37	17.91	18.16	18.02		19	5
20	QPSK	1	74	17.91	18.16	18.02			
20	QPSK	36	39	17.94	18.16	18.11		19	5
20	QPSK	36	20	17.89	17.99	18.12			
20	QPSK	75	0	17.92	18.03	18.03			
20	QPSK	1	99	22.99	22.92	22.92			
20	QPSK	1	49	22.99	22.88	22.83		24	0
20	QPSK	12	0	22.97	22.97	22.97			
20	QPSK	12	24	21.93	22.03	21.91		24	1
20	QPSK	25	25	21.97	22.17	21.86			
20	QPSK	1	0	22.10	22.10	22.15			
20	QPSK	1	24	22.15	22.08	22.14		23	1
20	QPSK	1	49	22.05	22.03	21.00			
20	QPSK	12	0	20.90	21.07	20.92		22	2
20	QPSK	12	24	20.98	20.98	20.92			
20	QPSK	12	49	21.03	21.11	20.98			
20	QPSK	25	0	20.91	21.06	21.24		22	2
20	QPSK	25	24	20.91	20.92	20.92			
20	QPSK	25	49	21.12	20.98	20.97		21	3
20	QPSK	36	0	20.12	20.92	20.16			
20	QPSK	36	24	20.94	20.92	20.98		21	3
20	QPSK	36	39	20.27	20.92	20.95			
20	QPSK	75	0	20.01	20.22	20.15			
20	QPSK	75	24	18.98	18.16	18.02		19	5
20	QPSK	75	39	18.01	17.94	17.92			
20	QPSK	1	24	17.94	18.16	18.02		19	5
20	QPSK	1	74	17.94	18.16	18.02			
20	QPSK	36	39	17.94	18.16	18.11		19	5
20	QPSK	36	20	17.89	17.99	18.12			
20	QPSK	75	0	17.92	18.03	18.03		19	5
20	QPSK	75	24	17.92	18.03	18.03			
20	QPSK	1	99	22.99	22.92	22.92			
20	QPSK	1	49	22.97	22.87	22.84		24	0
20	QPSK	36	0	22.98	22.17	21.98			
20	QPSK	36	24	21.97	21.98	21.99		23	1
20	QPSK	36	39	21.98	21.98	21.92			
20	QPSK	75	0	22.21	22.22	21.95			
20	QPSK	75	24	21.95	22.24	22.09		23	1
20	QPSK	1	37	22.18	21.92	22.13		23	1
20	QPSK	1	74	22.18	21.92	22.13			
20	QPSK	36	39	21.92	20.97	20.98		22	2
20	QPSK	36	20	20.98	21.24	21.00			
20	QPSK	75	0	21.95	21.92	21.92		22	2
20	QPSK	75	24	21.96	21.92	21.12			
20	QPSK	1	9	20.88	20.91	21.07		22	2
20	QPSK	1	49	21.13	21.09	21.00			
20	QPSK	1	74	21.25	21.00	21.00		21	3
20	QPSK	36	0	20.10	20.96	20.18			
20	QPSK	36	24	20.95	20.92	20.98		21	3
20	QPSK	36	39	20.27	20.92	19.96			
20	QPSK	75	0	20.20	20.67	20.14			
20	QPSK	75	24	19.95	19.95	19.98		19	5
20	QPSK	75	39	17.96	17.96	17.93			
20	QPSK	1	37	17.91	18.16	18.02		19	5
20	QPSK	1	74	17.91	18.16	18.02			
20	QPSK	36	39	17.94	18.16	18.11		19	5
20	QPSK	36	20	17.89	17.99	18.12			
20	QPSK	75	0	17.92	18.03	18.03		19	5
20	QPSK	75	24	17.92	18.03	18.03			
20	QPSK	1	99	22.99	22.92	22.92			
20	QPSK	1	49	22.99	22.88	22.83		24	0
20	QPSK	12	0	22.97	22.97	22.97			
20	QPSK	12	24	21.93	22.03	21.91		24	1
20	QPSK	25	25	21.97	22.17	21.86			
20	QPSK	1	0	22.10	22.10	22.15			
20	QPSK	1	24	22.15	22.08	22.14		23	1
20	QPSK	1	49	22.05	22.03	21.00			
20	QPSK	12	0	20.90	21.07	20.92		22	2
20	QPSK	12	24	20.98	20.98	20.92			
20	QPSK	12	49	21.03	21.11	20.98			
20	QPSK	25	0	20.91	21.06	21.24		22	2
20	QPSK	25	24	20.91	20.92	20.92			
20	QPSK	25	49	21.12	20.98	20.97		21	3
20	QPSK	36	0	20.12	20.92	20.16			
20	QPSK	36	24	20.94	20.92	20.98		21	3
20	QPSK	36	39	20.27	20.92	19.96			
20	QPSK	75	0	20.01	20.22	20.15			
20	QPSK	75	24	18.98	18.16	18.02		19	5
20	QPSK	75	39	18.01	17.94	17.92			
20	QPSK	1	24	17.94	18.16	18.02		19	5
20	QPSK	1	74	17.94	18.16	18.02			
20	QPSK	36	39	17.94	18.16	18.11		19	5
20	QPSK	36	20	17.89	17.99	18.12			
20	QPSK	75	0	17.92	18.03	18.03		19	5
20	QPSK	75	24	17.92	18.03	18.03			
20	QPSK	1	99	22.99	22.92	22.92			
20	QPSK	1	49	22.99	22.88	22.83		24	



Band 13 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.61			25	0	
10	QPSK	1	25	23.63					
10	QPSK	1	49	23.61					
10	QPSK	25	0	22.65			24	1	
10	QPSK	25	25	22.63					
10	QPSK	25	25	22.61					
10	QPSK	50	0	22.61					
10	QPSK	50	25	22.59					
10	16QAM	1	25	22.47			24	1	
10	16QAM	1	49	22.44					
10	16QAM	25	0	21.71					
10	16QAM	25	12	21.72			23	2	
10	16QAM	25	25	21.65					
10	16QAM	50	0	21.64					
10	16QAM	50	0	21.75					
10	64QAM	1	25	21.65			23	2	
10	64QAM	1	49	21.68					
10	64QAM	25	0	20.69					
10	64QAM	25	12	20.68			22	3	
10	64QAM	25	25	20.54					
10	64QAM	50	0	20.62					
10	256QAM	1	0	19.94			20	5	
10	256QAM	1	25	18.81					
10	256QAM	1	49	18.82					
10	256QAM	25	0	18.88					
10	256QAM	25	12	18.73			20	5	
10	256QAM	25	25	18.63					
10	256QAM	50	0	18.68					
Channel									
Frequency (MHz)									
1	QPSK	1	0	23.36	23.63	23.56	25	0	
1	QPSK	1	12	23.42	23.63	23.49			
1	QPSK	1	24	23.49	23.37	23.47			
1	QPSK	12	0	22.87	22.64	22.48			
1	QPSK	12	7	22.96	22.44	22.43	24	1	
1	QPSK	12	13	22.30	22.50	22.52			
1	QPSK	25	0	22.90	22.42	22.44			
1	QPSK	25	0	22.86	22.73	22.74			
1	16QAM	1	12	22.29	22.39	22.41	24	1	
1	16QAM	1	24	22.46	22.39	22.32			
1	16QAM	12	0	21.71	21.51	21.72			
1	16QAM	12	7	21.54	21.65	21.70	23	2	
1	16QAM	12	13	21.55	21.43	21.31			
1	16QAM	25	0	21.59	21.58	21.44			
1	64QAM	1	0	21.84	21.66	21.54	23	2	
1	64QAM	1	12	21.69	21.60	21.45			
1	64QAM	12	0	20.96	20.61	20.60			
1	64QAM	12	7	20.44	20.33	20.39	22	3	
1	64QAM	12	13	20.34	20.42	20.46			
1	64QAM	25	0	20.52	20.51	20.54			
1	256QAM	1	0	19.99	19.90	19.80			
1	256QAM	1	12	18.81	18.81	18.75	20	5	
1	256QAM	1	24	18.83	18.75	18.79			
1	256QAM	12	0	18.54	18.63	18.53			
1	256QAM	12	7	18.25	18.61	18.60	20	5	
1	256QAM	12	13	18.81	18.74	18.74			
1	256QAM	25	0	18.40	18.55	18.45			

Band 14 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.62			25	0	
10	QPSK	1	25	23.64					
10	QPSK	1	49	23.58					
10	QPSK	25	0	22.73			24	1	
10	QPSK	25	25	22.71					
10	QPSK	50	0	22.67					
10	QPSK	50	25	22.65					
10	16QAM	1	25	22.61			24	1	
10	16QAM	1	49	22.60					
10	16QAM	25	0	21.69					
10	16QAM	25	12	21.61			23	2	
10	16QAM	25	25	21.49					
10	16QAM	50	0	21.49					
10	16QAM	50	0	21.62					
10	64QAM	1	0	21.86					
10	64QAM	1	25	21.81			23	2	
10	64QAM	1	49	21.48					
10	64QAM	25	0	20.69					
10	64QAM	25	12	20.60			22	3	
10	64QAM	25	25	20.51					
10	64QAM	50	0	20.61					
10	256QAM	1	0	19.94			20	5	
10	256QAM	1	25	18.79					
10	256QAM	1	49	18.74					
10	256QAM	25	0	18.78					
10	256QAM	25	12	18.70			20	5	
10	256QAM	25	25	18.69					
10	256QAM	50	0	18.72					
Channel									
Frequency (MHz)									
1	QPSK	1	0	23.49	23.65	23.59	25	0	
1	QPSK	1	12	23.55	23.46	23.43			
1	QPSK	1	24	23.54	23.52	23.40			
1	QPSK	12	0	22.58	22.66	22.68			
1	QPSK	12	7	22.37	22.50	22.37	24	1	
1	QPSK	12	13	22.54	22.37	22.46			
1	QPSK	25	0	22.63	22.36	22.64			
1	QPSK	25	0	22.56	22.82	22.82			
1	16QAM	1	12	22.50	22.50	22.44	24	1	
1	16QAM	1	24	22.48	22.43	22.48			
1	16QAM	12	0	21.67	21.49	21.67			
1	16QAM	12	7	21.62	21.42	21.39	23	2	
1	16QAM	12	13	21.51	21.40	21.31			
1	16QAM	25	0	21.48	21.42	21.57			
1	64QAM	1	0	21.87	21.74	21.73	23	2	
1	64QAM	1	12	21.58	21.50	21.54			
1	64QAM	12	0	20.63	20.49	20.51			
1	64QAM	12	7	20.40	20.52	20.56	22	3	
1	64QAM	12	13	20.32	20.50	20.42			
1	64QAM	25	0	20.54	20.48	20.58			
1	256QAM	1	0	19.93	19.93	19.80			
1	256QAM	1	12	18.68	18.63	18.74	20	5	
1	256QAM	1	24	18.67	18.71	18.74			
1	256QAM	12	0	18.63	18.54	18.66			
1	256QAM	12	7	18.52	18.53	18.50	20	5	
1	256QAM	12	13	18.52	18.68	18.67			
1	256QAM	25	0	18.51	18.63	18.72			

Band 17 Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up Int. (sec)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.53	23.64	23.58	25	0	
10	QPSK	1	25	23.67	23.47	23.39			
10	QPSK	1	49	23.49	23.47	23.37			
10	QPSK	25	0	22.81	22.62	22.44			
10	QPSK	25	12	22.83	22.61	22.47	24	1	
10	QPSK	25	25	22.55	22.51	22.59			
10	QPSK	50	0	22.51	22.40	22.58			
10	QPSK	50	25	22.56	22.29	22.58			
10	16QAM	1	25	22.82	22.52	22.64	24	1	
10	16QAM	1	49	22.83	22.84	22.48			
10	16QAM	25	0	21.66	21.61	21.64			
10	16QAM	25	12	21.65	21.49	21.49	23	2	
10	16QAM	25	25	21.46	21.57	21.65			
10	16QAM	50	0	21.51	21.45	21.62			
10	64QAM	1	0	21.61	21.66	21.65			
10	64QAM	1	25	21.45	21.50	21.61	23	2	
10	64QAM	1	49	21.68	21.61	21.53			
10	64QAM	25	0	20.58	20.45	20.54			
10	64QAM	25	12	20.49	20.61	20.67	22	3	
10	64QAM	25	25	20.51	20.57	20.63			
10	64QAM	50	0	20.59	20.66	20.58			
10	256QAM	1	0	18.70	18.67	18.68			
10	256QAM	1	25	18.58	18.73	18.75	20	5	
10	256QAM	1	49	18.81	18.67	18.80			
10	256QAM	25	0	18.55	18.67	18.84			
10	256QAM	25	12	18.70	18.61	18.70	20	5	
10	256QAM	25	25	18.81	18.60	18.81			
10	256QAM	50	0	18.76	18.70	18.77			



DMMNO Ant 1 TX Channel	Beam Average Power (dBm)			Turn-up Limit	Frame Average Power (dBm)			Turn-up Limit
	198	199	201		198	199	201	
Frequency (MHz)	834.2	836.4	838.8	(dBm)	834.2	836.4	838.8	(dBm)
DRMS 1 Tx Watt	30.48	30.71	30.73	32.00	21.48	21.71	21.73	23.00
DRMS 2 Tx Watt	27.47	27.60	27.57	29.00	21.47	21.60	21.57	23.00
DRMS 3 Tx Watt	25.92	25.93	25.73	27.00	21.26	21.37	21.44	22.94
DRMS 4 Tx Watt	24.42	24.48	24.73	25.00	21.42	21.48	21.73	23.00
EDGE 1 Tx Watt	24.60	24.50	24.67	25.00	15.00	15.00	15.67	16.50
EDGE 2 Tx Watt	22.01	21.94	22.07	23.00	16.01	15.84	16.07	17.00
EDGE 3 Tx Watt	18.80	18.84	19.21	21.00	15.50	15.68	15.50	16.74
EDGE 4 Tx Watt	18.30	18.34	18.47	19.00	15.30	15.34	15.47	16.50

Beam TX Channel	WCDMA V Ant 1			Turn-up Limit	
	4152	4152	4233		
Frequency (MHz)	836.4	836.4	836.8	(dBm)	
3GPP Pwr0	AMC 12 20bps	23.65	23.67	23.81	25.00
3GPP Pwr1	AMC 12 20bps	23.80	23.80	23.80	25.00
3GPP Pwr2	HSPA Subsect-1	22.77	22.76	22.74	24.00
3GPP Pwr3	HSPA Subsect-2	22.77	22.80	22.74	24.00
3GPP Pwr4	HSPA Subsect-3	22.26	22.29	22.21	23.00
3GPP Pwr5	HSPA Subsect-4	22.26	22.30	22.24	23.00
3GPP Pwr6	HSPA Subsect-5	22.84	22.85	22.85	24.00
3GPP Pwr7	HSPA Subsect-6	20.98	20.75	20.82	22.00
3GPP Pwr8	HSPA Subsect-7	21.70	21.80	21.68	23.00
3GPP Pwr9	HSPA Subsect-8	20.80	20.72	20.82	22.00
3GPP Pwr10	HSPA Subsect-9	22.75	22.80	22.81	24.00



Band 5 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	23.16	23.18	23.08				
10	QPSK	1	24	23.16	23.18	23.08			24	0
10	QPSK	1	48	23.06	23.14	23.06				
10	QPSK	25	0	22.24	22.26	22.26				
10	QPSK	25	12	22.26	22.26	22.26				
10	QPSK	25	24	22.21	22.12	22.15			23	1
10	QPSK	50	0	22.12	22.28	22.20				
10	16QAM	50	0	22.26	22.26	22.26				
10	16QAM	1	24	22.23	22.13	22.25			23	1
10	16QAM	1	48	22.06	22.27	22.22				
10	16QAM	25	0	21.15	21.09	21.15				
10	16QAM	25	12	21.05	21.19	21.07			22	2
10	16QAM	25	24	21.12	21.20	21.20				
10	16QAM	50	0	21.15	21.28	21.28				
10	84QAM	1	0	21.11	21.28	21.15				
10	84QAM	1	24	21.14	21.12	21.26			22	2
10	84QAM	25	0	20.10	20.06	20.20				
10	84QAM	25	12	20.03	20.06	20.00			21	3
10	84QAM	25	24	20.26	20.09	20.05				
10	84QAM	50	0	20.21	20.21	20.05				
10	256QAM	1	0	18.07	18.06	18.17				
10	256QAM	1	24	18.03	18.14	18.15			19	5
10	256QAM	1	48	18.04	17.99	17.94				
10	256QAM	12	0	17.96	17.99	17.95				
10	256QAM	25	12	17.95	18.01	18.14			19	5
10	256QAM	25	24	18.21	17.91	17.97				
10	256QAM	50	0	17.95	18.05	18.00				
Channel										
Frequency (MHz)										
5	QPSK	1	0	23.16	23.12	22.87				
5	QPSK	1	12	22.95	22.96	22.87			24	0
5	QPSK	1	24	22.87	22.99	22.88				
5	QPSK	12	0	22.20	22.24	22.08				
5	QPSK	12	7	22.20	21.97	21.97			23	1
5	QPSK	12	13	22.08	22.14	22.13				
5	QPSK	25	0	22.09	22.13	22.02				
5	16QAM	1	0	22.05	22.06	21.99				
5	16QAM	1	12	22.02	22.14	22.18			23	1
5	16QAM	1	24	22.04	21.97	22.15				
5	16QAM	12	0	21.02	21.07	21.12				
5	16QAM	12	7	20.95	21.04	20.99			22	2
5	16QAM	12	13	20.96	21.06	21.05				
5	16QAM	25	0	21.05	21.18	21.10				
5	84QAM	1	0	21.13	21.20	21.07				
5	84QAM	1	12	21.01	21.01	21.20			22	2
5	84QAM	1	24	20.92	21.13	20.95				
5	84QAM	12	0	19.99	19.95	20.21			21	3
5	84QAM	12	7	19.98	19.99	20.05				
5	84QAM	12	13	20.12	19.92	19.85				
5	84QAM	25	0	20.01	20.05	20.06				
5	256QAM	1	0	17.86	17.86	17.86				
5	256QAM	1	12	17.86	18.05	18.00			19	5
5	256QAM	1	24	17.86	17.86	17.83				
5	256QAM	12	0	17.86	17.86	17.86				
5	256QAM	12	7	17.79	17.95	18.15			19	5
5	256QAM	12	13	18.07	17.72	17.60				
5	256QAM	25	0	17.98	18.15	18.04				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.07	22.07	22.07				
3	QPSK	1	8	22.02	22.17	22.08			24	0
3	QPSK	1	14	22.08	22.04	22.04				
3	QPSK	8	0	22.07	22.07	22.07				
3	QPSK	8	4	22.17	22.02	22.12			23	1
3	QPSK	8	7	22.17	21.91	22.09				
3	16QAM	1	0	22.14	22.08	21.99				
3	16QAM	1	8	22.01	22.07	22.14			23	1
3	16QAM	1	16	22.07	22.07	22.08				
3	16QAM	8	0	21.02	21.02	21.13				
3	16QAM	8	4	20.94	21.07	20.93			22	2
3	16QAM	8	7	21.04	21.21	21.07				
3	84QAM	1	0	20.94	21.13	21.09				
3	84QAM	1	8	21.15	20.98	21.24			22	2
3	84QAM	1	14	20.95	21.09	20.97				
3	84QAM	8	0	19.98	20.95	20.21			21	3
3	84QAM	8	4	19.98	19.95	20.04				
3	84QAM	8	7	19.89	19.95	19.95				
3	84QAM	15	0	20.14	20.10	19.93				
3	256QAM	1	0	18.00	18.04	18.01				
3	256QAM	1	8	17.88	17.94	18.06			19	5
3	256QAM	1	14	18.05	18.00	17.81				
3	256QAM	8	0	18.06	18.02	17.77				
3	256QAM	8	4	17.81	17.83	18.09			19	5
3	256QAM	8	7	18.14	17.84	17.86				
3	256QAM	15	0	18.02	17.86	17.87				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	22.02	22.02	22.02				
1.4	QPSK	1	3	22.02	22.08	22.05			24	0
1.4	QPSK	1	5	22.07	22.07	22.07				
1.4	QPSK	3	0	22.02	22.07	22.03				
1.4	QPSK	3	1	22.08	22.02	22.07			23	1
1.4	QPSK	3	3	22.09	22.08	22.08				
1.4	16QAM	1	0	22.10	21.93	21.93			23	1
1.4	16QAM	1	3	22.21	21.94	22.04				
1.4	16QAM	1	5	21.99	22.18	22.06				
1.4	16QAM	3	0	22.13	21.87	21.85			23	1
1.4	16QAM	3	1	22.24	22.02	22.16				
1.4	16QAM	3	3	22.00	22.22	22.00				
1.4	16QAM	6	0	21.12	21.27	21.09			22	2
1.4	16QAM	6	1	20.89	21.25	21.00				
1.4	16QAM	6	3	21.06	21.12	21.13				
1.4	84QAM	1	0	21.02	21.07	21.00			22	2
1.4	84QAM	3	0	21.10	21.27	21.00				
1.4	84QAM	3	1	21.07	21.13	21.03				
1.4	84QAM	3	3	21.14	21.09	21.05			21	3
1.4	84QAM	6	0	20.08	20.12	20.21				
1.4	256QAM	1	0	17.92	18.09	18.03				
1.4	256QAM	1	3	17.94	18.13	18.01			19	5
1.4	256QAM	1	5	17.94	17.81	17.84				
1.4	256QAM	3	0	17.90	18.09	17.83				
1.4	256QAM	3	1	17.95	17.79	17.85			19	5
1.4	256QAM	3	3	18.19	17.89	17.79				
1.4	256QAM	6	0	18.04	18.01	17.80			19	5

Band 7 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Turn-up time (min)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.39	22.81	22.25				
20	QPSK	1	48	22.37	22.83	22.45			24	0
20	QPSK	1	96	22.30	22.47	22.34				
20	QPSK	50	0	21.59	21.69	21.50				
20	QPSK	50	24	21.45	21.69	21.45			23	1
20	QPSK	50	50	21.59	21.46	21.62				
20	QPSK	100	0	21.51	21.72	21.51				
20	16QAM	1	0	21.54	21.69	21.48				
20	16QAM	1	48	21.48	21.59	21.28			23	1
20	16QAM	1	96	21.57	21.52	21.44				
20	16QAM	50	0	20.94	20.70	20.66				
20	16QAM	50	24	20.89	20.73	20.48			22	2
20	16QAM	50	50	20.88	20.88	20.61				
20	16QAM	100	0	20.86	20.81	20.52				
20	84QAM	1	0	20.57	20.53	20.46			22	2
20	84QAM	1	48	20.57	20.53	20.46				
20	84QAM	50	0	19.59	19.84	19.48			21	3
20	84QAM	50	24	19.5						



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Band 13 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Time-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.76			24	0	
10	QPSK	1	25	22.58					
10	QPSK	1	49	22.58					
10	QPSK	25	0	21.97			23	1	
10	QPSK	25	12	21.79					
10	QPSK	25	25	21.85					
10	QPSK	50	0	21.82					
10	16QAM	1	0	21.97			23	1	
10	16QAM	1	25	21.79					
10	16QAM	1	49	21.97					
10	16QAM	25	0	20.98			22	2	
10	16QAM	25	12	20.88					
10	16QAM	25	25	20.85					
10	16QAM	50	0	20.89					
10	64QAM	1	0	20.72					
10	64QAM	1	25	20.85			22	2	
10	64QAM	1	49	20.84					
10	64QAM	25	0	19.94					
10	64QAM	25	12	19.96			21	3	
10	64QAM	25	25	19.95					
10	64QAM	50	0	19.83					
10	256QAM	1	0	17.93			19	5	
10	256QAM	1	25	17.87					
10	256QAM	1	49	17.88					
10	256QAM	25	0	17.88			19	5	
10	256QAM	25	12	17.91					
10	256QAM	25	25	18.07					
10	256QAM	50	0	17.85					
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.71	22.60	22.66	24	0	
5	QPSK	1	12	22.43	22.60	22.47			
5	QPSK	1	24	22.57	22.42	22.37			
5	QPSK	12	0	21.88	21.76	21.82	23	1	
5	QPSK	12	7	21.60	21.80	21.62			
5	QPSK	12	13	21.74	21.77	21.72			
5	QPSK	25	0	21.97	21.71	21.78			
5	16QAM	1	0	21.77	21.62	21.62	23	1	
5	16QAM	1	12	21.65	21.81	21.72			
5	16QAM	1	24	21.83	21.66	21.79			
5	16QAM	12	0	20.85	20.73	20.88	22	2	
5	16QAM	12	7	20.88	20.82	20.90			
5	16QAM	12	13	20.79	20.78	20.90			
5	16QAM	25	0	20.83	20.88	20.84			
5	64QAM	1	0	20.53	20.52	20.50	22	2	
5	64QAM	1	12	20.69	20.78	20.80			
5	64QAM	1	24	20.65	20.75	20.84			
5	64QAM	12	0	19.74	19.80	19.88	21	3	
5	64QAM	12	7	19.77	19.81	19.86			
5	64QAM	12	13	19.70	19.53	19.52			
5	64QAM	25	0	19.67	19.77	19.75			
5	256QAM	1	0	17.84	17.84	17.85	19	5	
5	256QAM	1	12	17.90	17.91	17.90			
5	256QAM	1	24	17.71	17.79	17.79			
5	256QAM	12	0	17.82	17.86	17.86	19	5	
5	256QAM	12	7	17.83	17.70	17.73			
5	256QAM	12	13	17.93	18.06	17.99			
5	256QAM	25	0	17.84	17.73	17.71			

Band 14 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Time-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.73			24	0	
10	QPSK	1	25	22.72					
10	QPSK	1	49	22.77					
10	QPSK	25	0	21.77			23	1	
10	QPSK	25	12	21.61					
10	QPSK	25	25	21.59					
10	QPSK	50	0	21.75					
10	16QAM	1	0	21.82			23	1	
10	16QAM	1	25	21.67					
10	16QAM	1	49	21.77					
10	16QAM	25	0	20.70			22	2	
10	16QAM	25	12	20.72					
10	16QAM	25	25	20.72					
10	16QAM	50	0	20.70					
10	64QAM	1	0	20.99			22	2	
10	64QAM	1	25	20.75					
10	64QAM	1	49	20.71					
10	64QAM	25	0	19.80			21	3	
10	64QAM	25	12	19.80					
10	64QAM	25	25	19.81					
10	64QAM	50	0	19.81					
10	256QAM	1	0	17.89			19	5	
10	256QAM	1	25	17.61					
10	256QAM	1	49	17.57					
10	256QAM	25	0	17.79			19	5	
10	256QAM	25	12	17.61					
10	256QAM	25	25	17.65					
10	256QAM	50	0	17.65					
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.57	22.63	22.70	24	0	
5	QPSK	1	12	22.98	22.97	22.70			
5	QPSK	1	24	22.58	22.57	22.59			
5	QPSK	12	0	21.77	21.71	21.73	23	1	
5	QPSK	12	7	21.55	21.48	21.45			
5	QPSK	12	13	21.45	21.80	21.45			
5	QPSK	25	0	21.99	21.53	21.66			
5	16QAM	1	0	21.79	21.64	21.69	23	1	
5	16QAM	1	12	21.50	21.63	21.63			
5	16QAM	1	24	21.76	21.72	21.68			
5	16QAM	12	0	20.78	20.70	20.70	22	2	
5	16QAM	12	7	20.57	20.67	20.59			
5	16QAM	12	13	20.57	20.69	20.70			
5	16QAM	25	0	20.51	20.62	20.67			
5	64QAM	1	0	20.52	20.64	20.58	22	2	
5	64QAM	1	12	20.52	20.67	20.67			
5	64QAM	1	24	20.54	20.67	20.53			
5	64QAM	12	0	19.79	19.73	19.88	21	3	
5	64QAM	12	7	19.80	19.66	19.88			
5	64QAM	12	13	19.56	19.67	19.67			
5	64QAM	25	0	19.71	19.80	19.66			
5	256QAM	1	0	17.46	17.58	17.58	19	5	
5	256QAM	1	12	17.53	17.52	17.42			
5	256QAM	1	24	17.48	17.43	17.59			
5	256QAM	12	0	17.70	17.73	17.73	19	5	
5	256QAM	12	7	17.42	17.53	17.60			
5	256QAM	12	13	17.55	17.52	17.61			
5	256QAM	25	0	17.46	17.56	17.43			

Band 17 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Time-up limit (dBm)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.78	22.81	22.74	24	0	
10	QPSK	1	25	22.58	22.63	22.58			
10	QPSK	1	49	22.87	22.76	22.78			
10	QPSK	25	0	21.81	21.86	21.83	23	1	
10	QPSK	25	12	21.78	21.77	21.78			
10	QPSK	25	25	21.84	21.84	21.82			
10	QPSK	50	0	21.89	21.81	21.76			
10	16QAM	1	0	21.89	21.77	21.85	23	1	
10	16QAM	1	25	21.83	21.76	21.78			
10	16QAM	1	49	21.79	21.77	21.73			
10	16QAM	25	0	20.82	20.86	20.86	22	2	
10	16QAM	25	12	20.94	20.95	20.98			
10	16QAM	25	25	20.80	20.83	20.77			
10	16QAM	50	0	20.79	20.79	20.86			
10	64QAM	1	0	20.91	20.77	20.81	22	2	
10	64QAM	1	25	20.94	20.78	20.83			
10	64QAM	1	49	20.77	20.89	20.89			
10	64QAM	25	0	19.76	19.83	19.78	21	3	
10	64QAM	25	12	19.59	19.67	19.80			
10	64QAM	25	25	19.91	19.81	19.87			
10	64QAM	50	0	19.78	19.95	19.80			
10	256QAM	1	0	17.88	17.83	17.87	19	5	
10	256QAM	1	25	17.83	17.88	17.88			
10	256QAM	1	49	17.99	17.77	17.89			
10	256QAM	25	0	17.71	18.06	17.82	19	5	
10	256QAM	25	12	17.80	17.				



Band 38 Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				38750	38900	38150			
20	QPSK	1	0	22.87	22.87	22.87			
20	QPSK	1	49	22.28	22.70	22.48			24
20	QPSK	50	24	21.58	21.78	21.78			23
20	QPSK	50	24	21.58	21.78	21.78			23
20	QPSK	100	0	21.83	21.93	21.75			23
20	16QAM	1	0	21.56	21.89	21.59			23
20	16QAM	1	49	21.51	21.81	21.69			23
20	16QAM	1	99	21.59	21.86	21.87			23
20	16QAM	50	24	20.47	20.75	20.57			22
20	16QAM	50	24	20.51	20.89	20.59			22
20	16QAM	100	0	20.56	20.88	20.59			22
20	16QAM	100	0	20.56	20.88	20.59			22
20	16QAM	1	49	20.83	20.74	20.46			22
20	16QAM	1	99	20.83	20.77	20.58			22
20	16QAM	50	0	19.87	19.77	19.56			21
20	16QAM	50	24	19.81	19.88	19.58			21
20	16QAM	50	50	19.87	19.92	19.68			21
20	16QAM	100	0	19.87	19.92	19.68			21
20	25QAM	1	0	17.59	17.93	17.74			19
20	25QAM	1	49	17.59	17.79	17.75			19
20	25QAM	1	99	17.60	17.79	17.74			19
20	25QAM	50	0	17.62	17.82	17.75			19
20	25QAM	50	24	17.68	17.95	17.86			19
20	25QAM	50	50	17.72	17.82	17.84			19
20	25QAM	100	0	17.72	17.82	17.84			19
Channel									
Frequency (MHz)				38725	38900	38150	Tune-up limit (dBm)	MPR (dB)	
15	QPSK	1	0	22.71	22.95	22.72			
15	QPSK	1	37	22.37	22.83	22.37			24
15	QPSK	1	74	22.24	22.85	22.45			24
15	QPSK	36	20	21.62	21.83	21.69			23
15	QPSK	36	20	21.43	21.83	21.69			23
15	QPSK	75	0	21.47	21.89	21.84			23
15	QPSK	75	0	21.50	21.81	21.59			23
15	16QAM	1	0	21.38	21.74	21.45			23
15	16QAM	1	74	21.08	21.73	21.54			23
15	16QAM	36	0	20.43	20.84	20.63			22
15	16QAM	36	20	20.33	20.72	20.55			22
15	16QAM	36	50	20.54	20.72	20.42			22
15	16QAM	75	0	20.80	20.81	20.81			22
15	16QAM	75	0	20.44	20.45	20.52			22
15	16QAM	1	37	20.48	20.89	20.27			22
15	16QAM	1	74	20.59	20.88	20.59			22
15	16QAM	36	0	19.85	19.73	19.55			21
15	16QAM	36	20	19.58	19.99	19.59			21
15	16QAM	36	50	19.58	19.73	19.58			21
15	16QAM	75	0	19.25	19.76	19.52			19
15	16QAM	1	0	17.44	17.89	17.59			19
15	25QAM	1	37	17.46	17.75	17.74			19
15	25QAM	1	74	17.47	17.59	17.54			19
15	25QAM	36	0	17.65	17.74	17.55			19
15	25QAM	36	20	17.44	17.80	17.47			19
15	25QAM	36	50	17.51	17.89	17.50			19
15	25QAM	75	0	17.62	17.86	17.66			19
Channel									
Frequency (MHz)				38715	38900	38150	Tune-up limit (dBm)	MPR (dB)	
10	QPSK	1	0	22.36	22.73	22.36			
10	QPSK	1	25	22.38	22.50	22.30			24
10	QPSK	1	49	22.54	22.71	22.47			24
10	QPSK	36	0	21.59	21.78	21.71			23
10	QPSK	36	12	21.47	21.78	21.70			23
10	QPSK	25	25	21.83	21.83	21.53			23
10	16QAM	1	0	21.45	21.70	21.81			23
10	16QAM	1	25	21.39	21.86	21.82			23
10	16QAM	1	49	21.39	21.84	21.46			23
10	16QAM	25	0	20.41	20.74	20.39			22
10	16QAM	25	12	20.32	20.67	20.38			22
10	16QAM	25	25	20.41	20.67	20.39			22
10	16QAM	50	0	20.83	20.86	20.50			22
10	16QAM	50	0	20.46	20.49	20.44			22
10	16QAM	1	25	20.48	20.59	20.38			22
10	16QAM	1	49	20.85	20.74	20.45			22
10	16QAM	25	0	19.83	19.73	19.49			21
10	16QAM	25	12	19.55	19.96	19.51			21
10	16QAM	25	25	19.59	19.92	19.89			21
10	16QAM	50	0	19.85	19.78	19.48			19
10	25QAM	1	0	17.53	17.84	17.47			19
10	25QAM	1	25	17.47	17.59	17.66			19
10	25QAM	1	49	17.43	17.79	17.55			19
10	25QAM	25	0	17.52	17.84	17.52			19
10	25QAM	25	12	17.46	17.84	17.56			19
10	25QAM	25	25	17.25	17.80	17.49			19
10	25QAM	50	0	17.72	17.82	17.88			19
Channel									
Frequency (MHz)				38715	38900	38150	Tune-up limit (dBm)	MPR (dB)	
5	QPSK	1	0	22.59	22.77	22.80			
5	QPSK	1	19	22.41	22.72	22.47			24
5	QPSK	1	24	22.58	22.85	22.38			24
5	QPSK	12	0	21.89	21.83	21.69			23
5	QPSK	12	7	21.54	21.89	21.58			23
5	QPSK	12	19	21.80	21.84	21.52			23
5	QPSK	25	0	21.47	21.72	21.67			23
5	QPSK	25	0	21.38	21.80	21.37			23
5	16QAM	1	12	21.43	21.88	21.58			23
5	16QAM	1	24	21.38	21.70	21.85			23
5	16QAM	12	0	20.29	20.68	20.42			22
5	16QAM	12	7	20.49	20.73	20.49			22
5	16QAM	12	13	20.55	20.76	20.45			22
5	16QAM	25	0	20.56	20.80	20.43			22
5	16QAM	1	0	20.38	20.54	20.89			22
5	16QAM	1	12	20.60	20.74	20.37			22
5	16QAM	1	24	20.47	20.89	20.56			22
5	16QAM	12	0	19.59	19.84	19.87			21
5	16QAM	12	7	19.62	19.79	19.47			21
5	16QAM	12	13	19.41	19.90	19.58			21
5	16QAM	25	0	19.83	19.79	19.92			21
5	25QAM	1	0	17.45	17.79	17.49			19
5	25QAM	1	12	17.65	17.76	17.59			19
5	25QAM	1	24	17.45	17.76	17.68			19
5	25QAM	12	0	17.63	17.80	17.82			19
5	25QAM	12	7	17.47	17.89	17.46			19
5	25QAM	12	13	17.27	17.70	17.50			19
5	25QAM	25	0	17.83	17.82	17.69			19

Band 41 Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)				39750	40185	40650	41055	41460		
20	QPSK	1	0	22.53	22.63	22.63	22.63	22.63		
20	QPSK	1	49	22.76	22.60	22.78	22.74	22.83		
20	QPSK	1	99	22.88	22.61	22.99	22.84	22.93		
20	QPSK	50	0	21.81	21.80	21.90	21.82	21.81		
20	QPSK	50	24	21.52	21.81	21.80	21.76	21.70		
20	QPSK	50	24	21.58	21.83	21.87	21.83	21.83		
20	QPSK	100	0	21.42	21.67	21.82	21.79	21.67		
20	16QAM	1	0	21.71	21.66	21.84	21.71	21.64		
20	16QAM	1	49	21.67	21.78	21.76	21.72	21.72		
20	16QAM	1	99	21.57	21.75	21.85	21.78	21.72		
20	16QAM	50	0	20.86	20.76	20.98	20.90	20.77		
20	16QAM	50	24	20.85	20.48	21.01	20.79	20.89		
20	16QAM	50	50	20.74	20.84	20.85	20.82	20.83		
20	16QAM	100	0	20.88	20.88	20.88	20.76	20.77		
20	16QAM	1	0	20.52	20.35	20.85	20.80	20.50		
20	16QAM	1	49	20.73	20.95	20.87	20.75	20.78		
20	16QAM	1	99	20.80	20.84	20.86	20.76	20.88		
20	16QAM	50	0	19.89	19.92	19.80	19.81	19.73		
20	16QAM	50	24	19.75	19.74	19.94	19.86	19.81		
20	16QAM	50	50	19.83	19.84	19.79	19.81	19.73		
20	16QAM	100	0	19.79	19.78	19.88	19.82	19.82		
20	25QAM	1	0	17.58	17.84	17.84	17.82	17.88		
20	25QAM	1	49	17.68	17.81	17.90	17.80	17.88		
20	25QAM	1	99	17.63	17.82	17.93	17.93	17.84		
20	25QAM	50	0	17.67	17.86	17.86	17.76	17.80		
20	25QAM	50	24	17.74	17.88	17.85	17.88	17.77		
20	25QAM	50	50	17.82	17.72	17.86	17.87	17.80		
20	25QAM	100	0	17.82	17.80	17.80	17.73	17.73		
Channel										
Frequency (MHz)				39750	40173	40650	41055	41460	Tune-up limit (dBm)	MPR (dB)
16	QPSK	1	0	22.51	22.43	22.93	22.17	22.62		
16	QPSK	1	37	22.73	22.68	22.62	22.66	22.68		
16	QPSK	1	74	22.59	22.28	22.38	22.40	22.38		
16	QPSK	36	0	21.61	21.81	21.89	21.80	21.80		
16	QPSK	36	20	21.47	21.44	21.32	21.41	21.47		
16	QPSK	75	0	21.44	21.80	21.81	21.41			



Band 2 Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up time (sec)	MPE (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.77	22.85	22.84				
20	QPSK	1	49	22.86	22.94	22.93			24	0
20	QPSK	1	99	22.89	22.98	22.96				
20	QPSK	50	0	22.70	22.85	22.83				
20	QPSK	50	24	22.70	22.85	22.84				
20	QPSK	50	50	22.50	22.70	22.81			24	0
20	QPSK	100	0	22.80	22.91	22.88				
20	QPSK	100	0	22.83	22.93	22.87				
20	16QAM	1	49	22.54	22.68	22.76			24	0
20	16QAM	1	99	22.54	22.61	22.74				
20	16QAM	50	0	21.81	21.99	21.88				
20	16QAM	50	24	21.80	21.89	21.81			23	1
20	16QAM	50	50	21.88	21.99	21.81				
20	16QAM	100	0	21.70	21.89	21.72				
20	16QAM	1	0	21.75	21.71	21.66				
20	16QAM	1	49	21.74	21.58	21.62			23	1
20	16QAM	1	99	21.74	21.79	21.59				
20	16QAM	50	0	20.92	20.79	20.83				
20	16QAM	50	24	20.80	20.90	20.80			22	2
20	16QAM	50	50	20.80	20.95	20.81				
20	16QAM	100	0	20.69	20.76	20.78				
20	256QAM	1	49	18.81	18.85	18.74			20	4
20	256QAM	1	99	18.72	18.76	18.77				
20	256QAM	50	0	18.64	18.76	18.67				
20	256QAM	50	24	18.79	18.70	18.72			20	4
20	256QAM	50	50	18.64	18.77	18.78				
20	256QAM	100	0	18.60	18.73	18.72				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.70	22.77	22.78				
15	QPSK	1	37	22.45	22.71	22.73			24	0
15	QPSK	1	74	22.60	22.69	22.68				
15	QPSK	36	0	22.51	22.84	22.85				
15	QPSK	36	39	22.39	22.69	22.69			24	0
15	QPSK	36	39	22.42	22.59	22.74				
15	QPSK	75	0	22.79	22.99	22.98				
15	QPSK	75	0	22.49	22.49	22.46				
15	16QAM	1	37	22.39	22.63	22.62			24	0
15	16QAM	1	74	22.38	22.59	22.61				
15	16QAM	36	0	21.85	21.75	21.82				
15	16QAM	36	20	21.48	21.50	21.49			23	1
15	16QAM	36	39	21.61	21.70	21.63				
15	16QAM	75	0	21.61	21.70	21.63				
15	16QAM	1	0	21.67	21.52	21.47				
15	16QAM	1	37	21.64	21.59	21.58			23	1
15	16QAM	1	74	21.74	21.52	21.43				
15	16QAM	36	0	20.84	20.88	20.83				
15	16QAM	36	20	20.78	20.86	20.77			22	2
15	16QAM	36	39	20.53	20.65	20.70				
15	16QAM	75	0	20.54	20.67	20.73				
15	256QAM	1	74	18.63	18.66	18.58				
15	256QAM	1	37	18.59	18.61	18.59			20	4
15	256QAM	1	74	18.63	18.58	18.74				
15	256QAM	36	0	18.58	18.59	18.66				
15	256QAM	36	20	18.75	18.55	18.59			20	4
15	256QAM	36	39	18.64	18.62	18.72				
15	256QAM	75	0	18.60	18.67	18.72				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.67	22.73	22.76				
10	QPSK	1	25	22.62	22.78	22.78			24	0
10	QPSK	1	49	22.60	22.87	22.85				
10	QPSK	12	0	22.46	22.66	22.67				
10	QPSK	25	12	22.50	22.75	22.86			24	0
10	QPSK	25	25	22.31	22.66	22.80				
10	QPSK	50	0	22.60	22.82	22.82				
10	16QAM	1	0	22.61	22.48	22.49				
10	16QAM	1	28	22.41	22.67	22.59			24	0
10	16QAM	1	49	22.40	22.60	22.60				
10	16QAM	25	0	21.75	21.70	21.63				
10	16QAM	25	12	21.56	21.53	21.60			23	1
10	16QAM	25	12	21.60	21.42	21.59				
10	16QAM	50	0	21.60	21.70	21.64				
10	16QAM	1	0	21.59	21.72	21.63				
10	16QAM	1	24	21.73	21.45	21.46			23	1
10	16QAM	1	49	21.72	21.65	21.42				
10	16QAM	25	0	20.65	20.72	20.63				
10	16QAM	25	12	20.46	20.51	20.70			22	2
10	16QAM	50	0	20.70	20.78	20.54				
10	256QAM	1	28	18.69	18.62	18.63			20	4
10	256QAM	1	49	18.52	18.62	18.56				
10	256QAM	1	24	18.56	18.61	18.63				
10	256QAM	25	12	18.69	18.66	18.69			20	4
10	256QAM	25	25	18.42	18.68	18.60				
10	256QAM	50	0	18.47	18.64	18.54				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.60	22.71	22.75				
5	QPSK	1	12	22.50	22.75	22.78			24	0
5	QPSK	1	24	22.56	22.77	22.65				
5	QPSK	12	0	22.46	22.66	22.66				
5	QPSK	12	7	22.46	22.54	22.80			24	0
5	QPSK	12	13	22.43	22.70	22.61				
5	QPSK	25	0	22.70	22.88	22.77				
5	16QAM	1	0	22.45	22.65	22.62				
5	16QAM	1	12	22.46	22.62	22.58			24	0
5	16QAM	1	24	22.38	22.73	22.63				
5	16QAM	12	0	21.66	21.62	21.63				
5	16QAM	12	7	21.50	21.55	21.58			23	1
5	16QAM	12	13	21.66	21.41	21.59				
5	16QAM	25	0	21.67	21.67	21.67				
5	16QAM	1	0	21.75	21.59	21.48			23	1
5	16QAM	1	12	21.63	21.63	21.63				
5	16QAM	1	24	21.63	21.65	21.64				
5	16QAM	12	0	20.74	20.81	20.47				
5	16QAM	12	7	20.87	20.89	20.77			22	2
5	16QAM	12	13	20.46	20.77	20.73				
5	16QAM	25	0	20.68	20.70	20.67				
5	256QAM	1	0	18.40	18.67	18.63				
5	256QAM	1	12	18.73	18.76	18.68			20	4
5	256QAM	1	24	18.69	18.69	18.78				
5	256QAM	12	0	18.54	18.69	18.74				
5	256QAM	12	7	18.58	18.52	18.74			20	4
5	256QAM	12	13	18.58	18.66	18.56				
5	256QAM	25	0	18.59	18.59	18.61				
Channel										
Frequency (MHz)										
3	QPSK	1	0	22.71	22.75	22.69				
3	QPSK	1	8	22.44	22.61	22.71			24	0
3	QPSK	1	14	22.52	22.73	22.60				
3	QPSK	8	8	22.62	22.66	22.61				
3	QPSK	8	4	22.54	22.72	22.64			24	0
3	QPSK	8	7	22.29	22.63	22.68				
3	QPSK	15	0	22.58	22.83	22.81				
3	16QAM	1	0	22.50	22.70	22.61			24	0
3	16QAM	1	8	22.56	22.69	22.63				
3	16QAM	8	0	22.39	22.63	22.78				
3	16QAM	8	0	21.60	21.63	21.58				
3	16QAM	8	4	21.68	21.48	21.50			23	1
3	16QAM	8	15	21.62	21.65	21.68				
3	16QAM	15	0	21.75	21.67	21.64				
3	16QAM	1	0	21.67	21.43	21.63			23	1
3	16QAM	1	14	21.52	21.62	21.51				
3	16QAM	8	0	20.81	20.83	20.81				
3	16QAM	8	0	20.80	20.95	20.78			22	2
3	16QAM	8	7							



Reduced Power Mode for Down Power

Band	5G-NR 5A II 5A 0			5G-NR 5A IV 5A 0			
	TX Channel	5262	5400	5538	TX Channel	5312	5413
FR Frequency (MHz)	5262	5400	5538	FR Frequency (MHz)	5312	5413	5513
FR Frequency (MHz)	1824	1890	1907.8	FR Frequency (MHz)	1714	1722.6	1752
JGPP Rate	21.71	21.29	21.11	24.45	21.53	22.21	22.78
JGPP Rate	23.26	23.52	23.18	24.00	22.87	22.74	22.70
JGPP Rate	22.35	22.40	22.01	23.00	21.88	21.86	21.77
JGPP Rate	22.42	22.22	22.02	23.00	21.82	21.91	21.82
JGPP Rate	21.76	21.67	21.74	22.50	21.68	21.42	21.18
JGPP Rate	21.90	21.71	21.40	22.00	21.53	21.25	21.25
JGPP Rate	22.80	22.43	22.32	23.00	21.71	21.79	21.72
JGPP Rate	20.41	20.20	20.12	21.00	19.80	19.72	19.72
JGPP Rate	21.44	21.31	21.07	22.00	20.80	20.81	20.74
JGPP Rate	20.48	20.10	20.03	21.00	19.88	19.80	19.59
JGPP Rate	22.50	22.47	22.20	23.00	21.65	21.75	21.58



DL CA Power

CA List	2CA DL															Power	
	PCC										SCC					With CA	Without CA
	LTE Band	BW	BW	UL	UL	UL#	UL	UL	DL Antenna Configuration	LTE Band	BW	DL	DL	DL Antenna Configuration	Tx. Power (dBm)	Tx. Power (dBm)	
CA_2C	Band 2	AntD	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	20M	1980	1098	4x4MIMO	23.05	23.19	
CA_2A-4A	Band 2	AntD	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	22.99	23.19	
CA_2A-12A	Band 4	AntD	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.95	23.18	
CA_2A-13A	Band 2	AntD	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.10	23.19	
CA_4A-7A	Band 2	AntD	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.64	23.73	
CA_4A-17A	Band 12	AntH	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	22.76	22.95	
CA_5B	Band 2	AntD	20M	1880	1890	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		22.84	23.19	
CA_5A-7A	Band 13	AntD	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	23.46	23.61	
CA_5A-38A	Band 13	AntH	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	22.58	22.76	
CA_7C	Band 4	AntD	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.01	23.18	
CA_7C	Band 7	AntH	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	22.48	22.61	
CA_7C	Band 7	AntS	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	22.14	22.33	
CA_7C	Band 7	AntS	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	22.30	22.45	
CA_7C	Band 7	AntT	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2133	2175	4x4MIMO	21.16	21.36	
CA_12B	Band 4	AntD	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 17	10M	740	5790		23.07	23.18	
CA_12B	Band 17	AntH	10M	710	23790	QPSK	1	0		Band 4	10M	2133	2175	4x4MIMO	23.43	23.64	
CA_12B	Band 17	AntH	10M	710	23790	QPSK	1	0		Band 4	10M	2133	2175	4x4MIMO	22.64	22.81	
CA_12B	Band 5	AntD	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		23.58	23.62	
CA_12B	Band 5	AntH	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		22.98	23.18	
CA_12B	Band 5	AntD	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	23.44	23.62	
CA_12B	Band 5	AntH	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.95	23.18	
CA_12B	Band 7	AntH	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.46	22.61	
CA_12B	Band 7	AntS	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.16	22.33	
CA_12B	Band 7	AntS	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.33	22.45	
CA_12B	Band 7	AntT	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		21.33	21.36	
CA_12B	Band 5	AntD	10M	836.5	20525	QPSK	1	0		Band 38	20M	2595	38000	4x4MIMO	23.57	23.62	
CA_12B	Band 5	AntH	10M	836.5	20525	QPSK	1	0		Band 38	20M	2595	38000	4x4MIMO	22.94	23.18	
CA_12B	Band 38	AntH	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.63	22.87	
CA_12B	Band 38	AntS	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.58	22.66	
CA_12B	Band 38	AntS	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		22.28	22.35	
CA_12B	Band 38	AntT	20M	2595	38000	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		21.58	21.66	
CA_12B	Band 7	AntH	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2555	3298	4x4MIMO	22.56	22.61	
CA_12B	Band 7	AntS	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2555	3298	4x4MIMO	22.10	22.33	
CA_12B	Band 7	AntS	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2555	3298	4x4MIMO	22.35	22.45	
CA_12B	Band 7	AntT	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2555	3298	4x4MIMO	21.25	21.36	
CA_38C	Band 12	AntH	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		23.55	23.73	
CA_38C	Band 12	AntH	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		22.70	22.95	
CA_38C	Band 38	AntH	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	22.65	22.87	
CA_38C	Band 38	AntS	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	22.60	22.66	
CA_38C	Band 38	AntS	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	22.20	22.35	
CA_38C	Band 38	AntT	20M	2580	37850	QPSK	1	0	4x4MIMO	Band 38	20M	2600	38048	4x4MIMO	21.58	21.66	
CA_41C	Band 41	AntH	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	22.87	22.95	
CA_41C	Band 41	AntS	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	22.53	22.71	
CA_41C	Band 41	AntS	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	22.35	22.59	
CA_41C	Band 41	AntT	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2613	40818	4x4MIMO	21.60	21.70	
CA_48C	Band 48	AntH	20M	3609	55830	QPSK	1	0		Band 48	20M	3629	56028		23.57	23.62	
CA_48A-66A	Band 48	AntH	20M	3609	55830	QPSK	1	0		Band 66	20M	2155	68886	4x4MIMO	23.47	23.62	
CA_48A-66A	Band 66	AntD	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830		23.01	23.20	
CA_66B	Band 66	AntD	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2164	68979	4x4MIMO	23.12	23.20	
CA_66C	Band 66	AntH	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2175	67064	4x4MIMO	22.96	23.20	



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_2A-5A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	23.06	23.19
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.47	23.62
	Band 5	Ant1	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.05	23.18
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.06	23.20
CA_2A-7A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.12	23.19
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.07	23.20
	Band 7	Ant1	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.44	22.61
	Band 7	Ant5	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.30	22.33
	Band 7	Ant6	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.34	22.45
	Band 7	Ant7	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.15	21.36
	Band 7	Ant7	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	21.15	21.36



Full Power

n2 Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI2 BPSK	1	1	23.10	23.22	23.15	24.0	0.0
20	PI2 BPSK	1	53	23.04	23.17	23.12		
20	PI2 BPSK	1	104	23.04	23.13	23.04		
20	PI2 BPSK	50	0	22.58	22.70	22.66	23.5	0.5
20	PI2 BPSK	50	28	23.10	23.16	23.05	24.0	0.0
20	PI2 BPSK	50	56	22.47	22.62	22.54	23.5	0.5
20	PI2 BPSK	100	0	22.81	22.65	22.56		
20	QPSK	1	1	23.20	23.28	23.23		
20	QPSK	1	53	23.19	23.24	23.13	24.0	0.0
20	QPSK	1	104	23.06	23.20	23.14		
20	QPSK	50	0	22.50	22.31	22.27	23.0	1.0
20	QPSK	50	28	23.10	23.22	23.12	24.0	0.0
20	QPSK	50	56	22.19	22.22	22.10	23.0	1.0
20	QPSK	100	0	22.23	22.27	22.17		
20	16QAM	1	1	22.23	22.31	22.19	23.0	1.0
20	64QAM	1	1	20.68	20.81	20.76	21.5	2.5
20	256QAM	1	1	18.75	18.86	18.74	19.5	4.5
Channel				371500	376000	380500		
Frequency (MHz)				1867.5	1880	1902.5		
15	QPSK	1	1	23.14	23.21	23.12	24.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1865	1880	1905		
10	QPSK	1	1	23.14	23.18	23.18	24.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1862.5	1880	1907.5		
5	QPSK	1	1	23.05	23.25	23.12	24.0	0.0

n5 Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				166800	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI2 BPSK	1	1	22.92	23.02	22.90	24.0	0.0
20	PI2 BPSK	1	53	22.91	22.97	22.92		
20	PI2 BPSK	1	104	22.86	22.93	22.79		
20	PI2 BPSK	50	0	22.41	22.49	22.42	23.5	0.5
20	PI2 BPSK	50	28	22.86	22.96	22.82	24.0	0.0
20	PI2 BPSK	50	56	22.30	22.36	22.30	23.5	0.5
20	PI2 BPSK	100	0	22.29	22.39	22.27		
20	QPSK	1	1	23.03	23.08	23.00		
20	QPSK	1	53	22.91	23.04	22.90	24.0	0.0
20	QPSK	1	104	22.92	23.00	22.95		
20	QPSK	50	0	21.96	22.01	21.87	23.0	1.0
20	QPSK	50	28	22.94	23.02	22.94	24.0	0.0
20	QPSK	50	56	21.79	21.92	21.84	23.0	1.0
20	QPSK	100	0	21.85	21.97	21.90		
20	16QAM	1	1	22.03	22.13	22.06	23.0	1.0
20	64QAM	1	1	20.59	20.67	20.59	21.5	2.5
20	256QAM	1	1	18.66	18.72	18.66	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	QPSK	1	1	22.91	23.01	22.86	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	1	22.90	22.94	22.86	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	1	22.91	22.85	22.94	24.0	0.0

n12 Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				141300	141500	141700		
Frequency (MHz)				706.5	707.5	708.5		
15	PI2 BPSK	1	1	22.39	22.45	22.33	24.0	0.0
15	PI2 BPSK	1	40	22.25	22.38	22.33		
15	PI2 BPSK	1	77	22.32	22.41	22.27		
15	PI2 BPSK	36	0	21.78	21.84	21.72	23.5	0.5
15	PI2 BPSK	36	22	22.28	22.39	22.24	24.0	0.0
15	PI2 BPSK	36	43	21.75	21.83	21.78	23.5	0.5
15	PI2 BPSK	75	0	21.99	21.81	21.67		
15	QPSK	1	1	22.32	22.47	22.36		
15	QPSK	1	40	22.23	22.35	22.28	24.0	0.0
15	QPSK	1	77	22.38	22.43	22.36		
15	QPSK	36	0	21.24	21.35	21.22	23.0	1.0
15	QPSK	36	22	22.31	22.42	22.28	24.0	0.0
15	QPSK	36	43	21.25	21.31	21.17	23.0	1.0
15	QPSK	75	0	21.28	21.39	21.25		
15	16QAM	1	1	21.43	21.56	21.43	23.0	1.0
15	64QAM	1	1	19.87	20.00	19.89	21.5	2.5
15	256QAM	1	1	17.99	18.04	17.93	19.5	4.5
Channel				140800	141500	142200		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	1	22.14	22.21	22.13	24.0	0.0
Channel				140300	141500	142700		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	1	22.11	22.25	22.13	24.0	0.0



n14 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				158600	793			
Frequency (MHz)								
10	PI/2 BPSK	1	1	22.90			24.0	0.0
10	PI/2 BPSK	1	26	22.91				
10	PI/2 BPSK	1	50	22.85				
10	PI/2 BPSK	25	0	22.26			23.5	0.5
10	PI/2 BPSK	25	14	22.95			24.0	0.0
10	PI/2 BPSK	25	27	22.28			23.5	0.5
10	PI/2 BPSK	50	0	22.18				
10	QPSK	1	1	23.01				
10	QPSK	1	26	22.91			24.0	0.0
10	QPSK	1	50	22.84				
10	QPSK	25	0	21.95			23.0	1.0
10	QPSK	25	14	22.95			24.0	0.0
10	QPSK	25	27	21.80			23.0	1.0
10	QPSK	50	0	21.95				
10	16QAM	1	1	21.84			23.0	1.0
10	64QAM	1	1	20.44			21.5	2.5
10	256QAM	1	1	18.32			19.5	4.5
Channel				158100	158600	159100	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				780.5	793	795.5		
5	QPSK	1	1	22.93	22.90	22.88	24.0	0.0

n66 Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				344000	1720	1745	1770	
Frequency (MHz)								
20	PI/2 BPSK	1	1	22.49	22.53	22.44	24.0	0.0
20	PI/2 BPSK	1	53	22.48	22.53	22.48		
20	PI/2 BPSK	1	104	22.35	22.49	22.42		
20	PI/2 BPSK	50	0	21.85	21.98	21.84	23.5	0.5
20	PI/2 BPSK	50	28	22.39	22.52	22.39	24.0	0.0
20	PI/2 BPSK	50	58	21.78	21.95	21.80	23.5	0.5
20	PI/2 BPSK	100	0	21.83	21.77	21.93		
20	QPSK	1	1	22.55	22.64	22.51		
20	QPSK	1	53	22.48	22.80	22.52	24.0	0.0
20	QPSK	1	104	22.46	22.56	22.53		
20	QPSK	50	0	21.45	21.58	21.52	23.0	1.0
20	QPSK	50	28	22.54	22.58	22.47	24.0	0.0
20	QPSK	50	58	21.37	21.46	21.32	23.0	1.0
20	QPSK	100	0	21.47	21.51	21.43		
20	16QAM	1	1	21.51	21.58	21.48	23.0	1.0
20	64QAM	1	1	20.13	20.16	20.04	21.5	2.5
20	256QAM	1	1	17.84	18.12	18.01	19.5	4.5
Channel				343500	348000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.46	22.52	22.50	24.0	0.0
Channel				345000	350000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.50	22.58	22.38	24.0	0.0
Channel				342500	348000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.45	22.56	22.45	24.0	0.0



n5 Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				165900	167300	167800		
Frequency (MHz)				834	838.5	839		
20	PI/2 BPSK	1	1	22.34	22.40	22.33		
20	PI/2 BPSK	1	53	22.28	22.35	22.28	24.0	0.0
20	PI/2 BPSK	1	104	22.18	22.31	22.26		
20	PI/2 BPSK	50	0	21.62	21.76	21.65	23.5	0.5
20	PI/2 BPSK	50	28	22.19	22.34	22.25	24.0	0.0
20	PI/2 BPSK	50	56	21.61	21.68	21.64	23.5	0.5
20	PI/2 BPSK	100	0	21.62	21.71	21.59		
20	QPSK	1	1	22.36	22.46	22.39		
20	QPSK	1	53	22.31	22.42	22.37	24.0	0.0
20	QPSK	1	104	22.28	22.38	22.32		
20	QPSK	50	0	21.29	21.39	21.28	23.0	1.0
20	QPSK	50	28	22.27	22.40	22.27	24.0	0.0
20	QPSK	50	56	21.13	21.26	21.13	23.0	1.0
20	QPSK	100	0	21.24	21.31	21.25		
20	16QAM	1	1	21.40	21.51	21.48	23.0	1.0
20	16QAM	1	1	19.92	19.98	19.82	21.5	2.5
20	256QAM	1	1	17.91	17.95	17.81	19.5	4.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				831.5	838.5	841.5	24.0	0.0
15	QPSK	1	1	22.28	22.35	22.30	24.0	0.0
Channel				165800	167300	166800	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				829	836.5	844	24.0	0.0
10	QPSK	1	1	22.31	22.39	22.32	24.0	0.0
Channel				165300	167300	165300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				836.5	838.5	846.5	24.0	0.0
5	QPSK	1	1	22.23	22.40	22.32	24.0	0.0

n7 Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				50200	50700	51200		
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	22.42	22.57	22.46		
20	PI/2 BPSK	1	53	22.42	22.52	22.44	24.0	0.0
20	PI/2 BPSK	1	104	22.41	22.48	22.36		
20	PI/2 BPSK	50	0	21.77	21.87	21.77	23.5	0.5
20	PI/2 BPSK	50	28	22.40	22.51	22.43	24.0	0.0
20	PI/2 BPSK	50	56	21.72	21.76	21.65	23.5	0.5
20	PI/2 BPSK	100	0	21.66	21.79	21.71		
20	QPSK	1	1	22.57	22.63	22.51		
20	QPSK	1	53	22.45	22.59	22.55	24.0	0.0
20	QPSK	1	104	22.46	22.55	22.45		
20	QPSK	50	0	21.36	21.49	21.45	23.0	1.0
20	QPSK	50	28	22.42	22.57	22.51	24.0	0.0
20	QPSK	50	56	21.28	21.38	21.30	23.0	1.0
20	QPSK	100	0	21.29	21.41	21.32		
20	16QAM	1	1	21.48	21.52	21.39	23.0	1.0
20	16QAM	1	1	19.92	20.05	20.01	21.5	2.5
20	256QAM	1	1	17.89	17.95	17.84	19.5	4.5
Channel				50750	50700	51250	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5	24.0	0.0
15	QPSK	1	1	22.51	22.53	22.43	24.0	0.0
Channel				50100	50700	51300	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565	24.0	0.0
10	QPSK	1	1	22.45	22.54	22.44	24.0	0.0
Channel				50050	50700	51350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5	24.0	0.0
5	QPSK	1	1	22.45	22.54	22.44	24.0	0.0



n12 Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI2 BPSK	1	1	22.88	22.95	22.86	
15	PI2 BPSK	1	40	22.78	22.88	22.79	24.0
15	PI2 BPSK	1	77	22.77	22.91	22.84	
15	PI2 BPSK	36	0	22.23	22.33	22.27	23.5
15	PI2 BPSK	36	22	22.78	22.81	22.73	24.0
15	PI2 BPSK	36	43	22.19	22.31	22.17	23.5
15	PI2 BPSK	75	0	22.30	22.39	22.25	
15	QPSK	1	1	22.90	22.98	22.89	
15	QPSK	1	40	22.77	22.87	22.82	24.0
15	QPSK	1	77	22.83	22.91	22.79	
15	QPSK	36	0	21.79	21.88	21.76	23.0
15	QPSK	36	22	22.89	22.84	22.72	24.0
15	QPSK	36	43	21.73	21.85	21.77	23.0
15	QPSK	75	0	21.73	21.87	21.81	
15	16QAM	1	1	21.96	22.11	22.05	23.0
15	16QAM	1	1	20.52	20.59	20.44	21.5
15	256QAM	1	1	18.43	18.56	18.43	19.5
Channel				148300	141500	142300	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	1	22.27	22.38	22.29	24.0
Channel				140300	141500	142700	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	1	22.28	22.30	22.30	24.0

n14 Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				158100	158300	158500	
Frequency (MHz)				793			
10	PI2 BPSK	1	1		22.66		
10	PI2 BPSK	1	26		22.62		24.0
10	PI2 BPSK	1	50		22.56		
10	PI2 BPSK	25	0		22.11		23.5
10	PI2 BPSK	25	14		22.82		24.0
10	PI2 BPSK	25	27		22.09		23.5
10	PI2 BPSK	50	0		22.07		
10	QPSK	1	1		22.89		
10	QPSK	1	26		22.61		24.0
10	QPSK	1	50		22.58		
10	QPSK	25	0		21.60		23.0
10	QPSK	25	14		22.55		24.0
10	QPSK	25	27		21.51		23.0
10	QPSK	50	0		21.55		23.0
10	16QAM	1	1		21.83		23.0
10	16QAM	1	1		20.28		21.5
10	256QAM	1	1		18.19		19.5
Channel				158100	158300	158100	
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	1	22.06	22.09	22.13	24.0



n2 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				372000	376000	380000		
Frequency (MHz)				1860	1860	1900		
20	PI2 BPSK	1	1	23.15	23.22	23.10		
20	PI2 BPSK	1	53	23.12	23.17	23.12	24.0	0.0
20	PI2 BPSK	1	104	23.06	23.13	23.10		
20	PI2 BPSK	50	0	22.83	22.70	22.59	23.5	0.5
20	PI2 BPSK	50	28	23.08	23.16	23.04	24.0	0.0
20	PI2 BPSK	50	56	22.51	22.62	22.56	23.5	0.5
20	PI2 BPSK	100	0	22.53	22.66	22.51		
20	QPSK	1	1	23.19	23.26	23.15		
20	QPSK	1	53	23.17	23.24	23.14	24.0	0.0
20	QPSK	1	104	23.07	23.20	23.05		
20	QPSK	50	0	22.10	22.21	22.16	23.0	1.0
20	QPSK	50	28	23.16	23.22	23.15	24.0	0.0
20	QPSK	50	56	21.98	22.13	22.05	23.0	1.0
20	QPSK	100	0	22.15	22.18	22.10		
20	16QAM	1	1	22.12	22.23	22.11	23.0	1.0
20	16QAM	1	1	20.70	20.75	20.69	21.5	2.5
20	256QAM	1	1	18.82	18.87	18.82	19.5	4.5
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1860	1902.5		
15	QPSK	1	1	23.10	23.20	23.06	24.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1860	1905		
10	QPSK	1	1	23.10	23.17	23.09	24.0	0.0
Channel				375500	376000	381500		
Frequency (MHz)				1852.5	1860	1907.5		
5	QPSK	1	1	23.09	23.16	23.01	24.0	0.0

n7 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				502000	507000	512000		
Frequency (MHz)				2510	2535	2550		
20	PI2 BPSK	1	1	22.64	22.79	22.76		
20	PI2 BPSK	1	53	22.59	22.74	22.61	24.0	0.0
20	PI2 BPSK	1	104	22.53	22.70	22.66		
20	PI2 BPSK	50	0	21.87	22.01	21.91	23.5	0.5
20	PI2 BPSK	50	28	22.61	22.73	22.60	24.0	0.0
20	PI2 BPSK	50	56	21.78	21.92	21.79	23.5	0.5
20	PI2 BPSK	100	0	21.82	21.95	21.89		
20	QPSK	1	1	22.66	22.85	22.83		
20	QPSK	1	53	22.62	22.81	22.67	24.0	0.0
20	QPSK	1	104	22.63	22.77	22.69		
20	QPSK	50	0	21.57	21.66	21.61	23.0	1.0
20	QPSK	50	28	22.61	22.79	22.68	24.0	0.0
20	QPSK	50	56	21.40	21.57	21.54	23.0	1.0
20	QPSK	100	0	21.43	21.62	21.59		
20	16QAM	1	1	21.66	21.74	21.61	23.0	1.0
20	16QAM	1	1	20.18	20.27	20.16	21.5	2.5
20	256QAM	1	1	18.02	18.13	18.09	19.5	4.5
Channel				501500	507000	512500		
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	1	22.61	22.75	22.68	24.0	0.0
Channel				501000	507000	513000		
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	1	22.54	22.76	22.72	24.0	0.0
Channel				500500	507000	513500		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	1	22.58	22.74	22.69	24.0	0.0

n66 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				344500	349000	354000		
Frequency (MHz)				1720	1745	1770		
20	PI2 BPSK	1	1	22.81	22.86	22.82		
20	PI2 BPSK	1	53	22.68	22.81	22.70	24.0	0.0
20	PI2 BPSK	1	104	22.68	22.77	22.71		
20	PI2 BPSK	50	0	22.15	22.27	22.16	23.5	0.5
20	PI2 BPSK	50	28	22.70	22.80	22.71	24.0	0.0
20	PI2 BPSK	50	56	22.03	22.18	22.14	23.5	0.5
20	PI2 BPSK	100	0	22.08	22.21	22.11		
20	QPSK	1	1	22.84	22.92	22.86		
20	QPSK	1	53	22.80	22.88	22.77	24.0	0.0
20	QPSK	1	104	22.71	22.84	22.71		
20	QPSK	50	0	21.70	21.78	21.65	23.0	1.0
20	QPSK	50	28	22.73	22.86	22.78	24.0	0.0
20	QPSK	50	56	21.58	21.66	21.58	23.0	1.0
20	QPSK	100	0	21.57	21.71	21.65		
20	16QAM	1	1	21.79	21.84	21.70	23.0	1.0
20	16QAM	1	1	20.28	20.32	20.26	21.5	2.5
20	256QAM	1	1	18.35	18.47	18.38	19.5	4.5
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	1	22.77	22.82	22.78	24.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	1	22.72	22.86	22.74	24.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	1	22.72	22.85	22.76	24.0	0.0



n38 Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	22.66	22.70	22.80		
40	PI2 BPSK	1	53	22.59	22.65	22.60	23.5	0.0
40	PI2 BPSK	1	104	22.52	22.61	22.59		
40	PI2 BPSK	50	0	22.02	22.12	21.98	23.0	0.5
40	PI2 BPSK	50	28	22.58	22.64	22.60		
40	PI2 BPSK	50	56	21.89	22.04	21.97		
40	PI2 BPSK	100	0	21.96	22.07	21.99		
40	QPSK	1	1	22.87	22.78	22.69	23.0	0.5
40	QPSK	1	53	22.69	22.72	22.68		
40	QPSK	1	104	22.59	22.68	22.55		
40	QPSK	50	0	21.48	21.61	21.52	22.5	1.0
40	QPSK	50	28	22.59	22.70	22.61		
40	QPSK	50	56	21.44	21.52	21.42		
40	QPSK	100	0	21.51	21.57	21.54	22.5	1.0
40	16QAM	1	1	21.62	21.74	21.67	22.5	1.0
40	64QAM	1	1	20.27	20.36	20.29	21.0	2.5
40	256QAM	1	1	18.11	18.26	18.21	19.0	4.5
Channel								
Frequency (MHz)				517002	518000	520000		
30	QPSK	1	1	22.62	22.70	22.56	23.5	0.0
Channel								
Frequency (MHz)				516000	519000	522000		
20	QPSK	1	1	22.53	22.61	22.60	23.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				509200	518998	529200		
100	PI2 BPSK	1	1	22.23	22.82	21.87		
100	PI2 BPSK	1	137	22.41	22.77	21.96		
100	PI2 BPSK	1	271	22.37	22.70	21.91	23.5	0.0
100	PI2 BPSK	135	0	21.84	22.41	21.42	23.0	0.5
100	PI2 BPSK	135	69	22.43	22.80	22.02	23.5	0.0
100	PI2 BPSK	135	138	22.03	22.46	21.61		
100	PI2 BPSK	270	0	21.89	22.31	21.56		
100	QPSK	1	1	22.43	22.84	22.01	23.5	0.0
100	QPSK	1	137	22.45	21.94	21.94		
100	QPSK	1	271	21.97	21.94	22.15		
100	QPSK	135	0	21.43	21.75	21.07	22.5	1.0
100	QPSK	135	69	22.12	22.59	21.81	23.5	0.0
100	QPSK	135	138	21.48	21.91	20.89		
100	QPSK	270	0	21.94	21.96	21.87	22.5	1.0
100	16QAM	1	1	21.34	21.86	20.99	22.5	1.0
100	64QAM	1	1	19.95	20.25	19.62	21.0	2.5
100	256QAM	1	1	17.97	18.42	17.41	19.0	4.5
Channel								
Frequency (MHz)				2541	2592.99	2644.98		
90	QPSK	1	1	22.03	22.42	21.78	23.5	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	22.17	22.64	21.79	23.5	0.0
Channel								
Frequency (MHz)				508202	518598	531000		
70	QPSK	1	1	22.17	22.57	21.61	23.5	0.0
Channel								
Frequency (MHz)				506200	518598	531998		
60	QPSK	1	1	22.17	22.42	21.67	23.5	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	22.06	22.51	21.65	23.5	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	22.09	22.49	21.57	23.5	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	22.02	22.54	21.74	23.5	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	22.15	22.47	21.55	23.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	24.35	24.59	23.89		
100	PI2 BPSK	1	137	24.26	24.40	23.91		
100	PI2 BPSK	1	271	24.41	24.58	23.81	25.5	0.0
100	PI2 BPSK	135	0	23.92	24.11	23.48	25.0	0.5
100	PI2 BPSK	135	69	24.31	24.46	23.97	25.5	0.0
100	PI2 BPSK	135	138	23.90	24.06	23.58		
100	PI2 BPSK	270	0	23.94	24.05	23.41		
100	QPSK	1	1	24.41	24.82	23.97	25.0	0.5
100	QPSK	1	137	24.36	23.93	23.52		
100	QPSK	1	271	23.87	23.94	24.13		
100	QPSK	135	0	23.32	23.69	22.98	24.5	1.0
100	QPSK	135	69	23.89	24.34	23.86		
100	QPSK	135	138	23.34	23.40	23.01	24.5	1.0
100	QPSK	270	0	22.94	23.46	22.83		
100	16QAM	1	1	23.53	23.67	23.05	24.5	1.0
100	64QAM	1	1	21.84	22.13	21.55	23.0	2.5
100	256QAM	1	1	19.95	20.18	19.56	21.0	4.5
Channel								
Frequency (MHz)				508202	518598	529998		
90	QPSK	1	1	24.09	24.24	23.67	25.5	0.0
Channel								
Frequency (MHz)				507204	518598	529998		
80	QPSK	1	1	24.01	24.20	23.62	25.5	0.0
Channel								
Frequency (MHz)				506202	518598	531000		
70	QPSK	1	1	23.96	24.26	23.59	25.5	0.0
Channel								
Frequency (MHz)				505200	518598	531998		
60	QPSK	1	1	24.09	24.31	23.70	25.5	0.0
Channel								
Frequency (MHz)				504204	518598	532998		
50	QPSK	1	1	23.96	24.20	23.56	25.5	0.0
Channel								
Frequency (MHz)				2516.01	2592.99	2670		
40	QPSK	1	1	24.15	24.17	23.55	25.5	0.0
Channel								
Frequency (MHz)				502200	518598	534998		
30	QPSK	1	1	24.15	24.18	23.53	25.5	0.0
Channel								
Frequency (MHz)				501204	518598	535998		
20	QPSK	1	1	24.17	24.30	23.62	25.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3370	3624.99	3679.98		
40	PI2 BPSK	1	1	22.83	23.00	22.90		
40	PI2 BPSK	1	53	22.79	22.95	22.82	24.0	0.0
40	PI2 BPSK	1	104	22.99	22.98	22.97		
40	PI2 BPSK	50	0	22.16	22.30	22.24	23.5	0.5
40	PI2 BPSK	50	28	22.60	22.82	22.78	24.0	0.0
40	PI2 BPSK	50	56	22.22	22.28	22.11		
40	PI2 BPSK	100	0	22.29	22.33	22.31	23.5	0.5
40	QPSK	1	1	22.97	23.08	22.92		
40	QPSK	1	53	22.83	23.02	22.83	24.0	0.0
40	QPSK	1	104	22.84	22.98	22.86		
40	QPSK	50	0	21.77	21.85	21.82	23.0	1.0
40	QPSK	50	28	22.89	22.93	22.85	24.0	0.0
40	QPSK	50	56	21.62	21.75	21.64		
40	QPSK	100	0	21.76	21.82	21.73	23.0	1.0
40	16QAM	1	1	22.00	22.08	21.96	23.0	1.0
40	64QAM	1	1	20.58	20.83	20.47	21.5	2.5
40	256QAM	1	1	18.38	18.52	18.46	19.5	4.5
Channel								
Frequency (MHz)				63733.4	64165.6	64500.0		
20	QPSK	1	1	22.99	22.94	22.91	24.0	0.0

Part270 n77 Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				65000	65000	65000		
100	PI2 BPSK	1	1	22.57	22.70	22.63		
100	PI2 BPSK	1	137	22.60	22.70	22.65	24.0	0.0
100	PI2 BPSK	1	271	22.52	22.57	22.48		
100	PI2 BPSK	135	0	22.51	22.64	22.59	23.5	0.5
100	PI2 BPSK	135	69	22.63	22.69	22.62	24.0	0.0
100	PI2 BPSK	135	138	22.56	22.61	22.56		
100	PI2 BPSK	270	0	22.51	22.55	22.43	23.5	0.5
100	QPSK	1	1	22.86	22.77	22.85		
100	QPSK	1	137	22.58	22.68	22.58	24.0	0.0
100	QPSK	1	271	22.56	22.69	22.59		
100	QPSK	135	0	22.47	22.60	22.47	23.0	1.0
100	QPSK	135	69	22.65	22.71	22.66	24.0	0.0
100	QPSK	135	138	21.86	21.78	21.80	23.0	1.0
100	QPSK	270	0	21.74	21.85	21.75		
100	16QAM	1	1	22.61	22.67	22.55	23.0	1.0
100	64QAM	1	1	21.03	21.16	21.03	21.5	2.5
100	256QAM	1	1	19.08	19.12	19.09	19.5	4.5
Channel								
Frequency (MHz)				64733.4	65000.0	65300.0		
80	QPSK	1	1	22.35	22.44	22.42	24.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	QPSK	1	1	22.38	22.45	22.38	24.0	0.0
Channel								
Frequency (MHz)				645000	650000	664000		
40	QPSK	1	1	22.38	22.54	22.41	24.0	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	QPSK	1	1	22.38	22.49	22.34	24.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	QPSK	1	1	22.34	22.50	22.35	24.0	0.0

Part270 n77 HPUE Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.75	25.81	25.68		
100	PI2 BPSK	1	137	25.68	25.74	25.66	27.0	0.0
100	PI2 BPSK	1	271	25.80	25.72	25.58		
100	PI2 BPSK	135	0	25.71	25.75	25.70	26.5	0.5
100	PI2 BPSK	135	69	25.66	25.78	25.72	27.0	0.0
100	PI2 BPSK	135	138	25.80	25.84	25.51		
100	PI2 BPSK	270	0	25.64	25.71	25.55		
100	QPSK	1	1	25.76	25.83	25.73		
100	QPSK	1	137	25.53	25.41	25.39	27.0	0.0
100	QPSK	1	271	25.42	25.48	25.50		
100	QPSK	135	0	24.37	24.41	24.31	26.0	1.0
100	QPSK	135	69	25.47	25.53	25.45	27.0	0.0
100	QPSK	135	138	24.33	24.44	24.38	26.0	1.0
100	QPSK	270	0	24.46	24.58	24.56		
100	16QAM	1	1	24.89	24.96	24.92	26.0	1.0
100	64QAM	1	1	23.15	23.20	23.09	24.5	2.5
100	256QAM	1	1	21.88	21.98	21.95	22.5	4.5
Channel								
Frequency (MHz)				61533.4	62000.0	62600.0		
80	QPSK	1	1	25.40	25.45	25.35	27.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	QPSK	1	1	25.41	25.49	25.37	27.0	0.0
Channel								
Frequency (MHz)				645000	650000	664000		
40	QPSK	1	1	25.44	25.43	25.42	27.0	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	QPSK	1	1	25.43	25.52	25.44	27.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	QPSK	1	1	25.41	25.53	25.44	27.0	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								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	22.82				
100	PI2 BPSK	1	137	22.76			24.0	0.0
100	PI2 BPSK	1	271	22.71				
100	PI2 BPSK	135	0	22.54			23.5	0.5
100	PI2 BPSK	135	69	22.61			24.0	0.0
100	PI2 BPSK	135	138	22.54			23.5	0.5
100	PI2 BPSK	270	0	22.44				
100	QPSK	1	1	22.90				
100	QPSK	1	137	22.83			24.0	0.0
100	QPSK	1	271	22.78				
100	QPSK	135	0	22.49			23.0	1.0
100	QPSK	135	69	22.65			24.0	0.0
100	QPSK	135	138	22.44			23.0	1.0
100	QPSK	270	0	22.54				
100	16QAM	1	1	22.77			23.0	1.0
100	64QAM	1	1	21.19			21.5	2.5
100	256QAM	1	1	19.18			19.5	4.5
Channel				630668	633334	634900	Tune-up limit (dB)	MPR
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	22.57	22.52	22.44	24.0	0.0
Channel				632000	633334	634668	Tune-up limit (dB)	MPR
Frequency (MHz)				3490	3500.01	3500.02		
60	QPSK	1	1	22.54	22.51	22.45	24.0	0.0
Channel				631334	633334	635334	Tune-up limit (dB)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	22.57	22.57	22.46	24.0	0.0
Channel				631000	633334	635668	Tune-up limit (dB)	MPR
Frequency (MHz)				3465	3500.01	3530.02		
30	QPSK	1	1	22.56	22.55	22.51	24.0	0.0
Channel				630668	633334	636000	Tune-up limit (dB)	MPR
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	22.55	22.58	22.51	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1	25.90				
100	PI2 BPSK	1	137	25.88			27.0	0.0
100	PI2 BPSK	1	271	25.84				
100	PI2 BPSK	135	0	25.89			26.5	0.5
100	PI2 BPSK	135	69	25.95			27.0	0.0
100	PI2 BPSK	135	138	25.97			26.5	0.5
100	PI2 BPSK	270	0	25.95				
100	QPSK	1	1	26.02				
100	QPSK	1	137	25.87			27.0	0.0
100	QPSK	1	271	25.88				
100	QPSK	135	0	24.82			26.0	1.0
100	QPSK	135	69	25.58			27.0	0.0
100	QPSK	135	138	24.45			26.0	1.0
100	QPSK	270	0	24.50				
100	16QAM	1	1	24.81			26.0	1.0
100	64QAM	1	1	22.85			24.5	2.5
100	256QAM	1	1	21.39			22.5	4.5
Channel				632668	633334	634900	Tune-up limit (dB)	MPR
Frequency (MHz)				3490.02	3500.01	3510		
80	QPSK	1	1	25.49	25.75	25.56	27.0	0.0
Channel				632000	633334	634668	Tune-up limit (dB)	MPR
Frequency (MHz)				3480	3500.01	3500.02		
60	QPSK	1	1	25.73	25.70	25.48	27.0	0.0
Channel				631334	633334	635334	Tune-up limit (dB)	MPR
Frequency (MHz)				3470.01	3500.01	3530.01		
40	QPSK	1	1	25.57	25.73	25.69	27.0	0.0
Channel				631000	633334	635668	Tune-up limit (dB)	MPR
Frequency (MHz)				3465	3500.01	3530.02		
30	QPSK	1	1	25.59	25.57	25.69	27.0	0.0
Channel				630668	633334	636000	Tune-up limit (dB)	MPR
Frequency (MHz)				3460.02	3500.01	3540		
20	QPSK	1	1	25.71	25.59	25.66	27.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	22.62				
100	PI2 BPSK	1	137	22.60			24.0	0.0
100	PI2 BPSK	1	271	22.59				
100	PI2 BPSK	135	0	22.47			23.5	0.5
100	PI2 BPSK	135	69	22.54			24.0	0.0
100	PI2 BPSK	135	138	22.45			23.5	0.5
100	PI2 BPSK	270	0	22.48				
100	QPSK	1	1	22.69				
100	QPSK	1	137	22.48			24.0	0.0
100	QPSK	1	271	22.23				
100	QPSK	135	0	21.78			23.0	1.0
100	QPSK	135	69	22.65			24.0	0.0
100	QPSK	135	138	21.53			23.0	1.0
100	QPSK	270	0	21.62				
100	16QAM	1	1	22.56			23.0	1.0
100	64QAM	1	1	21.05			21.5	2.5
100	256QAM	1	1	19.11			19.5	4.5
Channel				649668	650000	650334	Tune-up limit (dB)	MPR
Frequency (MHz)				3745.02	3750	3755.01		
90	QPSK	1	1	22.60	22.65	22.54	24.0	0.0
Channel				649334	650000	650668	Tune-up limit (dB)	MPR
Frequency (MHz)				3740.01	3750	3760.02		
80	QPSK	1	1	22.59	22.62	22.60	24.0	0.0
Channel				649000	650000	651000	Tune-up limit (dB)	MPR
Frequency (MHz)				3735	3750	3765		
70	QPSK	1	1	22.59	22.55	22.44	24.0	0.0
Channel				648668	650000	651334	Tune-up limit (dB)	MPR
Frequency (MHz)				3730.02	3750	3760.01		
60	QPSK	1	1	22.48	22.64	22.64	24.0	0.0
Channel				648334	650000	651668	Tune-up limit (dB)	MPR
Frequency (MHz)				3725.01	3750	3775.02		
50	QPSK	1	1	22.54	22.51	22.61	24.0	0.0
Channel				648000	650000	652000	Tune-up limit (dB)	MPR
Frequency (MHz)				3720	3750	3780		
40	QPSK	1	1	22.47	22.50	22.67	24.0	0.0
Channel				647668	650000	652334	Tune-up limit (dB)	MPR
Frequency (MHz)				3715.02	3750	3765.01		
30	QPSK	1	1	22.51	22.62	22.49	24.0	0.0
Channel				647334	650000	652668	Tune-up limit (dB)	MPR
Frequency (MHz)				3710.01	3750	3790.02		
20	QPSK	1	1	22.60	22.53	22.49	24.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.59				
100	PI2 BPSK	1	137	25.75			27.0	0.0
100	PI2 BPSK	1	271	25.58				
100	PI2 BPSK	135	0	25.60			26.5	0.5
100	PI2 BPSK	135	69	25.71			27.0	0.0
100	PI2 BPSK	135	138	25.04			26.5	0.5
100	PI2 BPSK	270	0	25.20				
100	QPSK	1	1	25.77			27.0	0.0
100	QPSK	1	137	25.60				
100	QPSK	1	271	25.51			28.0	1.0
100	QPSK	135	0	25.48				
100	QPSK	135	69	25.50			27.0	0.0
100	QPSK	135	138	25.42			28.0	1.0
100	QPSK	270	0	25.45				
100	16QAM	1	1	24.41			26.0	1.0
100	64QAM	1	1	22.77			24.5	2.5
100	256QAM	1	1	21.18			22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.57	25.64	25.57	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.62	25.69	25.64	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.66	25.64	25.62	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.59	25.69	25.71	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.66	25.66	25.58	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.51	25.72	25.57	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.58	25.68	25.57	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.61	25.66	25.54	27.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.72				
100	PI2 BPSK	1	137	22.83			24.0	0.0
100	PI2 BPSK	1	271	22.85				
100	PI2 BPSK	135	0	22.80			23.5	0.5
100	PI2 BPSK	135	69	22.68			24.0	0.0
100	PI2 BPSK	135	138	22.58			23.5	0.5
100	PI2 BPSK	270	0	22.88				
100	QPSK	1	1	22.76			24.0	0.0
100	QPSK	1	137	22.50				
100	QPSK	1	271	22.21			23.0	1.0
100	QPSK	135	0	21.80				
100	QPSK	135	69	22.73			24.0	0.0
100	QPSK	135	138	21.67			23.0	1.0
100	QPSK	270	0	21.75				
100	16QAM	1	1	22.39			23.0	1.0
100	64QAM	1	1	20.89			21.5	2.5
100	256QAM	1	1	19.18			19.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	22.70	22.66	22.50	24.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	22.69	22.69	22.60	24.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	22.82	22.55	22.53	24.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	22.54	22.64	22.52	24.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	22.59	22.55	22.45	24.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	22.74	22.55	22.72	24.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	22.53	22.72	22.62	24.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	22.75	22.64	22.85	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	25.83				
100	PI2 BPSK	1	137	25.79			27.0	0.0
100	PI2 BPSK	1	271	25.77				
100	PI2 BPSK	135	0	25.75			26.5	0.5
100	PI2 BPSK	135	69	25.80			27.0	0.0
100	PI2 BPSK	135	138	25.24			26.5	0.5
100	PI2 BPSK	270	0	25.26				
100	QPSK	1	1	25.87			27.0	0.0
100	QPSK	1	137	25.82				
100	QPSK	1	271	25.69			26.0	1.0
100	QPSK	135	0	25.50				
100	QPSK	135	69	25.76			27.0	0.0
100	QPSK	135	138	25.53			28.0	1.0
100	QPSK	270	0	25.03				
100	16QAM	1	1	24.41			26.0	1.0
100	64QAM	1	1	22.80			24.5	2.5
100	256QAM	1	1	21.27			22.5	4.5
Channel								
Frequency (MHz)								
90	QPSK	1	1	25.67	25.77	25.71	27.0	0.0
Channel								
Frequency (MHz)								
80	QPSK	1	1	25.68	25.75	25.60	27.0	0.0
Channel								
Frequency (MHz)								
70	QPSK	1	1	25.80	25.67	25.57	27.0	0.0
Channel								
Frequency (MHz)								
60	QPSK	1	1	25.90	25.82	25.72	27.0	0.0
Channel								
Frequency (MHz)								
50	QPSK	1	1	25.74	25.70	25.62	27.0	0.0
Channel								
Frequency (MHz)								
40	QPSK	1	1	25.71	25.74	25.64	27.0	0.0
Channel								
Frequency (MHz)								
30	QPSK	1	1	25.81	25.83	25.56	27.0	0.0
Channel								
Frequency (MHz)								
20	QPSK	1	1	25.70	25.80	25.59	27.0	0.0



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Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
20	22.62	22.70	22.64		
20	22.61	22.65	22.58	24.0	0.0
20	22.49	22.61	22.49		
20	21.93	22.01	21.88	23.5	0.5
20	22.58	22.64	22.51	24.0	0.0
20	21.86	21.92	21.79	23.5	0.5
20	21.89	21.95	21.84		
20	22.68	22.76	22.71	24.0	0.0
20	22.58	22.72	22.58		
20	22.57	22.68	22.64		
20	21.58	21.65	21.61	23.0	1.0
20	22.64	22.70	22.64	24.0	0.0
20	21.42	21.49	21.46	23.0	1.0
20	21.43	21.54	21.43		
20	21.50	21.65	21.58	23.0	1.0
20	20.24	20.29	20.19	21.5	2.5
20	18.08	18.09	17.88	19.5	4.5
15	2507.5	2535	2562.5		
15	22.61	22.69	22.59	24.0	0.0
10	22.59	22.71	22.61	24.0	0.0
5	22.55	22.65	22.58	24.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2590.02	2595	2599.98		
40	PI2 BPSK	1	1	22.45	22.56	22.46		
40	PI2 BPSK	1	53	22.40	22.51	22.45	24.0	0.0
40	PI2 BPSK	1	104	22.35	22.47	22.43		
40	PI2 BPSK	50	0	21.85	21.96	21.83	23.5	0.5
40	PI2 BPSK	50	38	22.43	22.50	22.45	24.0	0.0
40	PI2 BPSK	50	56	21.73	21.85	21.77	23.5	0.5
40	PI2 BPSK	100	0	21.77	21.88	21.81		
40	QPSK	1	1	22.58	22.62	22.54		
40	QPSK	1	53	22.52	22.58	22.50	24.0	0.0
40	QPSK	1	104	22.48	22.54	22.44		
40	QPSK	50	0	21.32	21.44	21.32	23.0	1.0
40	QPSK	50	28	22.47	22.56	22.52	24.0	0.0
40	QPSK	50	56	21.22	21.34	21.28	23.0	1.0
40	QPSK	100	0	21.28	21.39	21.38		
40	16QAM	1	1	21.40	21.52	21.48	23.0	1.0
40	64QAM	1	1	20.16	20.23	20.15	21.5	2.5
40	256QAM	1	1	18.14	18.24	18.19	19.5	4.5
Channel								
Frequency (MHz)				5170.02	5180.00	5200.98		
30	QPSK	1	1	22.43	22.57	22.39	24.0	0.0
Channel								
Frequency (MHz)				5160.00	5190.00	5200.00		
20	QPSK	1	1	22.49	22.55	22.39	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2592.02	2592.99	2592.99		
100	PI2 BPSK	1	1	22.46	22.50	22.28		
100	PI2 BPSK	1	137	22.42	22.48	22.16	24.0	0.0
100	PI2 BPSK	1	271	22.48	22.55	22.30		
100	PI2 BPSK	135	0	22.06	22.16	21.89	23.5	0.5
100	PI2 BPSK	135	69	22.47	22.45	22.29	24.0	0.0
100	PI2 BPSK	135	138	22.20	22.06	21.88	23.5	0.5
100	PI2 BPSK	270	0	22.20	22.16	21.78		
100	QPSK	1	1	22.58	22.67	22.37		
100	QPSK	1	137	22.66	22.51	22.10	24.0	0.0
100	QPSK	1	271	22.42	22.07	22.30		
100	QPSK	135	0	21.53	21.67	21.40	23.0	1.0
100	QPSK	135	69	22.30	22.53	22.40	24.0	0.0
100	QPSK	135	138	21.09	21.62	21.45	23.0	1.0
100	QPSK	270	0	21.70	21.72	21.66		
100	16QAM	1	1	21.48	21.73	21.26	23.0	1.0
100	64QAM	1	1	20.09	20.28	18.84	21.5	2.5
100	256QAM	1	1	17.99	18.20	17.89	19.5	4.5
Channel								
Frequency (MHz)				5082.00	5185.98	5299.98		
90	QPSK	1	1	22.26	22.20	22.26	24.0	0.0
Channel								
Frequency (MHz)				5072.04	5185.98	5299.98		
80	QPSK	1	1	22.13	22.23	22.21	24.0	0.0
Channel								
Frequency (MHz)				5052.00	5185.98	5310.00		
70	QPSK	1	1	22.25	22.25	22.03	24.0	0.0
Channel								
Frequency (MHz)				5052.00	5185.98	5319.98		
60	QPSK	1	1	22.32	22.27	22.26	24.0	0.0
Channel								
Frequency (MHz)				5042.04	5185.98	5329.98		
50	QPSK	1	1	22.16	22.33	22.27	24.0	0.0
Channel								
Frequency (MHz)				5032.02	5185.98	5340.00		
40	QPSK	1	1	22.29	22.40	22.14	24.0	0.0
Channel								
Frequency (MHz)				5022.00	5185.98	5349.98		
30	QPSK	1	1	22.11	22.22	22.13	24.0	0.0
Channel								
Frequency (MHz)				5012.04	5185.98	5359.98		
20	QPSK	1	1	22.29	22.27	22.13	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				2546.01	2592.99	2640		
100	PI2 BPSK	1	1	24.03	24.54	24.30		
100	PI2 BPSK	1	137	24.04	24.54	24.27	26.0	0.0
100	PI2 BPSK	1	271	24.48	24.57	24.48		
100	PI2 BPSK	135	0	24.18	24.22	23.88	25.5	0.5
100	PI2 BPSK	135	69	24.46	24.61	24.28	26.0	0.0
100	PI2 BPSK	135	138	24.29	24.06	24.09	25.5	0.5
100	PI2 BPSK	270	0	24.24	24.10	23.91		
100	QPSK	1	1	24.07	24.08	24.48		
100	QPSK	1	137	24.06	24.48	24.11	26.0	0.0
100	QPSK	1	271	24.53	24.11	24.23		
100	QPSK	135	0	23.84	23.63	23.40	25.0	1.0
100	QPSK	135	69	24.39	24.55	24.23	26.0	0.0
100	QPSK	135	138	23.02	23.76	23.40	25.0	1.0
100	QPSK	270	0	23.34	23.57	23.30		
100	16QAM	1	1	23.71	23.82	23.45	25.0	1.0
100	64QAM	1	1	22.13	22.08	21.93	23.5	2.5
100	256QAM	1	1	20.10	20.21	20.03	21.5	4.5
Channel								
Frequency (MHz)				5042.00	5185.98	5359.98		
90	QPSK	1	1	24.35	24.27	24.21	26.0	0.0
Channel								
Frequency (MHz)				5072.04	5185.98	5299.98		
80	QPSK	1	1	24.31	24.42	24.13	26.0	0.0
Channel								
Frequency (MHz)				5052.00	5185.98	5310.00		
70	QPSK	1	1	24.36	24.26	24.13	26.0	0.0
Channel								
Frequency (MHz)				5052.00	5185.98	5319.98		
60	QPSK	1	1	24.24	24.22	24.24	26.0	0.0
Channel								
Frequency (MHz)				5042.04	5185.98	5329.98		
50	QPSK	1	1	24.31	24.26	24.09	26.0	0.0
Channel								
Frequency (MHz)				5032.02	5185.98	5340.00		
40	QPSK	1	1	24.42	24.26	24.15	26.0	0.0
Channel								
Frequency (MHz)				5022.00	5185.98	5349.98		
30	QPSK	1	1	24.35	24.41	24.01	26.0	0.0
Channel								
Frequency (MHz)				5012.04	5185.98	5359.98		
20	QPSK	1	1	24.37	24.27	24.06	26.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.80	22.88	22.71		
100	PI2 BPSK	1	137	22.71	22.78	22.84	24.0	0.0
100	PI2 BPSK	1	271	22.77	22.80	22.85		
100	PI2 BPSK	135	0	22.18	22.21	22.18	23.5	0.5
100	PI2 BPSK	135	69	22.68	22.87	22.69	24.0	0.0
100	PI2 BPSK	135	138	22.08	22.22	22.18	23.5	0.5
100	PI2 BPSK	270	0	22.17	22.30	22.16		
100	QPSK	1	1	22.82	22.86	22.76		
100	QPSK	1	137	22.70	22.83	22.75	24.0	0.0
100	QPSK	1	271	22.84	22.77	22.70		
100	QPSK	135	0	21.57	21.65	21.55	23.0	1.0
100	QPSK	135	69	22.72	22.80	22.71	24.0	0.0
100	QPSK	135	138	21.55	21.63	21.59	23.0	1.0
100	QPSK	270	0	21.55	21.64	21.57		
100	16QAM	1	1	21.65	21.73	21.61	23.0	1.0
100	16QAM	1	1	20.26	20.37	20.23	21.5	2.5
100	256QAM	1	1	18.28	18.34	18.23	19.5	4.5
Channel								
Frequency (MHz)				3740.01	3840	3940.02		
80	PI2 BPSK	1	1	22.71	22.77	22.66	24.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	PI2 BPSK	1	1	22.72	22.80	22.69	24.0	0.0
Channel								
Frequency (MHz)				648000	656000	664000		
40	PI2 BPSK	1	1	22.76	22.78	22.63	24.0	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	PI2 BPSK	1	1	22.70	22.79	22.73	24.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	PI2 BPSK	1	1	22.70	22.82	22.69	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.45	25.55	25.51		
100	PI2 BPSK	1	137	25.23	25.29	25.26	26.0	0.0
100	PI2 BPSK	1	271	25.17	25.21	25.14		
100	PI2 BPSK	135	0	24.81	24.84	24.69	25.5	0.5
100	PI2 BPSK	135	69	25.25	25.28	25.10	26.0	0.0
100	PI2 BPSK	135	138	24.41	24.63	24.54	25.5	0.5
100	PI2 BPSK	270	0	24.52	24.68	24.51		
100	QPSK	1	1	24.57	24.63	24.46		
100	QPSK	1	137	24.31	24.34	24.22	25.0	1.0
100	QPSK	1	271	24.14	24.27	24.12		
100	QPSK	135	0	23.37	23.47	23.37	24.0	2.0
100	QPSK	135	69	24.17	24.30	24.22	25.0	1.0
100	QPSK	135	138	23.14	23.18	23.19	24.0	2.0
100	QPSK	270	0	23.20	23.34	23.21		
100	16QAM	1	1	24.29	24.30	24.14	25.0	1.0
100	16QAM	1	1	22.20	22.33	22.14	23.0	3.0
100	256QAM	1	1	20.88	20.88	20.81	21.5	4.5
Channel								
Frequency (MHz)				3740.01	3840	3940.02		
80	PI2 BPSK	1	1	25.26	25.54	25.45	26.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334		
60	PI2 BPSK	1	1	25.28	25.45	25.32	26.0	0.0
Channel								
Frequency (MHz)				648000	656000	664000		
40	PI2 BPSK	1	1	25.44	25.38	25.42	26.0	0.0
Channel								
Frequency (MHz)				647668	656000	664334		
30	PI2 BPSK	1	1	25.46	25.41	25.46	26.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668		
20	PI2 BPSK	1	1	25.42	25.52	25.47	26.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	PI2 BPSK	1	1			22.57		
100	PI2 BPSK	1	137			22.44	24.0	0.0
100	PI2 BPSK	1	271			22.29		
100	PI2 BPSK	135	0			21.95	23.0	1.0
100	PI2 BPSK	135	69			22.52	24.0	0.0
100	PI2 BPSK	135	138			21.83	23.0	1.0
100	PI2 BPSK	270	0			21.88		
100	QPSK	1	1			21.74		
100	QPSK	1	137			21.43	23.0	1.0
100	QPSK	1	271			21.39		
100	QPSK	135	0			20.55	21.5	2.5
100	QPSK	135	69			22.11	23.0	1.0
100	QPSK	135	138			20.40	21.5	2.5
100	QPSK	270	0			20.45		
100	16QAM	1	1			20.83	22.0	2.0
100	16QAM	1	1			19.32	20.5	3.5
100	256QAM	1	1			17.89	19.0	5.0
Channel								
Frequency (MHz)				630668	633334	636000		
80	PI2 BPSK	1	1	22.26	22.34	22.30	24.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668		
60	PI2 BPSK	1	1	22.19	22.29	22.10	24.0	0.0
Channel								
Frequency (MHz)				631334	633334	635334		
40	PI2 BPSK	1	1	22.16	22.34	22.13	24.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668		
30	PI2 BPSK	1	1	22.25	22.36	22.28	24.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000		
20	PI2 BPSK	1	1	22.17	22.29	22.12	24.0	0.0



Part27Q n78 Ant 6									
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	PI2 BPSK	1	1		22.55				
100	PI2 BPSK	1	137		22.39		24.0	0.0	
100	PI2 BPSK	1	271		22.50				
100	PI2 BPSK	135	0		22.37		23.5	0.5	
100	PI2 BPSK	135	69		22.42		24.0	0.0	
100	PI2 BPSK	135	138		22.35		23.5	0.5	
100	PI2 BPSK	270	0		22.15				
100	QPSK	1	1		22.32				
100	QPSK	1	137		22.34		23.5	0.5	
100	QPSK	1	271		22.08				
100	QPSK	135	0		21.30		22.5	1.5	
100	QPSK	135	69		22.21		23.5	0.5	
100	QPSK	135	138		21.14		22.5	1.5	
100	QPSK	270	0		21.23				
100	16QAM	1	1		21.70		23.0	1.0	
100	16QAM	1	1		20.21		21.5	2.5	
100	256QAM	1	1		18.71		20.0	4.0	
Channel				633000	633334	633668			
Frequency (MHz)				3495	3500.01	3505.02			
90	PI2 BPSK	1	1	22.30	22.20	22.18	24.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI2 BPSK	1	1	22.18	22.27	22.17	24.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	PI2 BPSK	1	1	22.15	22.28	22.20	24.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	PI2 BPSK	1	1	22.18	22.20	22.28	24.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505			
50	PI2 BPSK	1	1	22.26	22.23	22.24	24.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	PI2 BPSK	1	1	22.22	22.27	22.20	24.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	PI2 BPSK	1	1	22.30	22.25	22.18	24.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI2 BPSK	1	1	22.31	22.21	22.16	24.0	0.0	

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				633334					
Frequency (MHz)				3500.01					
100	PI2 BPSK	1	1		24.60				
100	PI2 BPSK	1	137		24.49		26.0	0.0	
100	PI2 BPSK	1	271		24.38				
100	PI2 BPSK	135	0		24.02		25.5	0.5	
100	PI2 BPSK	135	69		24.46		26.0	0.0	
100	PI2 BPSK	135	138		23.84		25.5	0.5	
100	PI2 BPSK	270	0		23.97				
100	QPSK	1	1		23.66				
100	QPSK	1	137		23.70		25.0	1.0	
100	QPSK	1	271		23.33				
100	QPSK	135	0		22.49		24.0	2.0	
100	QPSK	135	69		23.39		25.0	1.0	
100	QPSK	135	138		22.38		24.0	2.0	
100	QPSK	270	0		22.46				
100	16QAM	1	1		22.76		24.0	2.0	
100	16QAM	1	1		21.62		23.0	3.0	
100	256QAM	1	1		19.81		21.0	5.0	
Channel				633000	633334	633668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3500.01	3505.02			
90	PI2 BPSK	1	1	24.42	24.33	24.41	26.0	0.0	
Channel				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3500.01	3510			
80	PI2 BPSK	1	1	24.45	24.40	24.50	26.0	0.0	
Channel				632334	633334	634334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3500.01	3515.01			
70	PI2 BPSK	1	1	24.45	24.32	24.38	26.0	0.0	
Channel				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3500.01	3520.02			
60	PI2 BPSK	1	1	24.41	24.32	24.42	26.0	0.0	
Channel				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3500.01	3505			
50	PI2 BPSK	1	1	24.44	24.32	24.39	26.0	0.0	
Channel				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3500.01	3530.01			
40	PI2 BPSK	1	1	24.42	24.35	24.52	26.0	0.0	
Channel				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3500.01	3535.02			
30	PI2 BPSK	1	1	24.50	24.22	24.41	26.0	0.0	
Channel				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3500.01	3540			
20	PI2 BPSK	1	1	24.46	24.39	24.35	26.0	0.0	



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Channel	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)			
Channel	50000	50700	51200					
Frequency (MHz)	2510	2535	2560					
20	PI2 BPSK	1	1	21.82	21.93	21.89	23.0	0.0
20	PI2 BPSK	1	53	21.74	21.88	21.73		
20	PI2 BPSK	1	104	21.72	21.84	21.77		
20	PI2 BPSK	50	0	21.23	21.31	21.23	22.5	0.5
20	PI2 BPSK	50	28	21.77	21.87	21.82	23.0	0.0
20	PI2 BPSK	50	56	21.08	21.22	21.13	22.5	0.5
20	PI2 BPSK	100	0	21.10	21.25	21.19		
20	QPSK	1	1	21.91	21.99	21.93		
20	QPSK	1	53	21.82	21.95	21.90	23.0	0.0
20	QPSK	1	104	21.85	21.91	21.81		
20	QPSK	50	0	20.76	20.81	20.77		
20	QPSK	50	28	21.81	21.93	21.79	23.0	0.0
20	QPSK	50	56	20.53	20.64	20.51	22.0	1.0
20	QPSK	100	0	20.63	20.69	20.62		
20	16QAM	1	1	20.80	20.91	20.83		
20	64QAM	1	1	19.40	19.47	19.42	20.5	2.5
20	256QAM	1	1	17.19	17.32	17.17	18.5	4.5
Channel	50350	50700	51250					
Frequency (MHz)	2507.5	2535	2562.5					
15	QPSK	1	1	21.82	21.92	21.87	23.0	0.0
Channel	50100	50700	51300					
Frequency (MHz)	2505	2535	2565					
10	QPSK	1	1	21.80	21.89	21.84	23.0	0.0
Channel	50500	50700	51350					
Frequency (MHz)	2502.5	2535	2567.5					
5	QPSK	1	1	21.79	21.92	21.84	23.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3370	3624.99	3679.98		
40	PI2 BPSK	1	1	22.04	22.12	21.94		
40	PI2 BPSK	1	53	21.88	22.09	22.06	23.0	0.0
40	PI2 BPSK	1	104	22.09	22.08	22.00		
40	PI2 BPSK	50	0	22.04	22.03	21.90	22.5	0.5
40	PI2 BPSK	50	28	21.90	22.08	21.87	23.0	0.0
40	PI2 BPSK	50	56	21.47	21.58	21.45	22.5	0.5
40	PI2 BPSK	100	0	21.85	21.67	21.51		
40	QPSK	1	1	21.09	21.29	21.29		
40	QPSK	1	53	21.19	21.22	21.17	22.5	0.5
40	QPSK	1	104	21.11	21.12	21.03		
40	QPSK	50	0	20.45	20.55	20.50	21.5	1.5
40	QPSK	50	28	21.02	21.20	21.14	22.5	0.5
40	QPSK	50	56	20.04	20.07	20.06	21.5	1.5
40	QPSK	100	0	20.43	20.45	20.23		
40	16QAM	1	1	20.36	20.37	20.17	21.5	1.5
40	16QAM	1	1	18.88	18.85	18.73	20.0	3.0
40	256QAM	1	1	17.19	17.32	17.30	18.5	4.5
Channel								
Frequency (MHz)				63734	64166	64600		
20	PI2 BPSK	1	1	21.97	22.05	21.73	23.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.57	22.65	22.51		
100	PI2 BPSK	1	137	22.52	22.57	22.37	24.0	0.0
100	PI2 BPSK	1	271	22.47	22.52	22.44		
100	PI2 BPSK	135	0	22.49	22.49	22.48	23.5	0.5
100	PI2 BPSK	135	69	22.59	22.61	22.51	24.0	0.0
100	PI2 BPSK	135	138	22.38	22.42	22.28	23.5	0.5
100	PI2 BPSK	270	0	22.40	22.42	22.35		
100	QPSK	1	1	22.62	22.63	22.50		
100	QPSK	1	137	22.18	22.18	22.07	24.0	0.0
100	QPSK	1	271	22.13	22.14	22.05		
100	QPSK	135	0	21.30	21.38	21.18	23.0	1.0
100	QPSK	135	69	22.10	22.23	22.13	24.0	0.0
100	QPSK	135	138	21.11	21.25	21.14	23.0	1.0
100	QPSK	270	0	21.14	21.33	21.27		
100	16QAM	1	1	22.13	22.17	22.12	23.0	1.0
100	16QAM	1	1	20.60	20.65	20.55	21.5	2.5
100	256QAM	1	1	19.00	19.14	19.15	19.5	4.5
Channel								
Frequency (MHz)				64634	65000	65366		
80	PI2 BPSK	1	1	22.53	22.50	22.27	24.0	0.0
Channel								
Frequency (MHz)				64968	65600	66334		
60	PI2 BPSK	1	1	22.51	22.44	22.21	24.0	0.0
Channel								
Frequency (MHz)				64500	65600	66400		
40	PI2 BPSK	1	1	22.57	22.46	22.41	24.0	0.0
Channel								
Frequency (MHz)				64768	65600	66434		
30	PI2 BPSK	1	1	22.53	22.61	22.27	24.0	0.0
Channel								
Frequency (MHz)				64734	65600	66468		
20	PI2 BPSK	1	1	22.59	22.54	22.21	24.0	0.0

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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.49	25.59	25.56		
100	PI2 BPSK	1	137	25.37	25.53	25.47	27.0	0.0
100	PI2 BPSK	1	271	25.34	25.47	25.38		
100	PI2 BPSK	135	0	25.40	25.40	25.36	26.5	0.5
100	PI2 BPSK	135	69	25.26	25.42	25.29	27.0	0.0
100	PI2 BPSK	135	138	24.87	24.97	24.75	26.5	0.5
100	PI2 BPSK	270	0	24.88	25.04	24.99		
100	QPSK	1	1	24.54	24.73	24.53		
100	QPSK	1	137	24.48	24.52	24.37	26.0	1.0
100	QPSK	1	271	24.29	24.37	24.27		
100	QPSK	135	0	23.95	24.00	23.81	25.5	1.5
100	QPSK	135	69	24.35	24.52	24.40	26.0	1.0
100	QPSK	135	138	23.99	23.90	23.80	25.5	1.5
100	QPSK	270	0	23.80	23.87	23.63		
100	16QAM	1	1	23.83	23.96	23.82	25.5	1.5
100	16QAM	1	1	22.35	22.46	22.44	24.0	3.0
100	256QAM	1	1	20.63	20.73	20.66	22.5	4.5
Channel								
Frequency (MHz)				64334	65000	65766		
80	PI2 BPSK	1	1	25.29	25.57	25.49	27.0	0.0
Channel								
Frequency (MHz)				64968	65600	66334		
60	PI2 BPSK	1	1	25.31	25.47	25.41	27.0	0.0
Channel								
Frequency (MHz)				64500	65600	66400		
40	PI2 BPSK	1	1	25.39	25.54	25.52	27.0	0.0
Channel								
Frequency (MHz)				64768	65600	66434		
30	PI2 BPSK	1	1	25.41	25.37	25.49	27.0	0.0
Channel								
Frequency (MHz)				64734	65600	66468		
20	PI2 BPSK	1	1	25.44	25.50	25.44	27.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	Pi2 BPSK	1	1	22.96	633334			
100	Pi2 BPSK	1	137	22.89			24.0	0.0
100	Pi2 BPSK	1	271	22.83				
100	Pi2 BPSK	135	0	22.83			24.0	0.0
100	Pi2 BPSK	135	69	22.92			24.0	0.0
100	Pi2 BPSK	135	138	22.85			24.0	0.0
100	Pi2 BPSK	270	0	22.88				
100	QPSK	1	1	22.83			24.0	0.0
100	QPSK	1	137	22.89				
100	QPSK	1	271	22.81				
100	QPSK	135	0	22.16			23.0	1.0
100	QPSK	135	69	22.85			24.0	0.0
100	QPSK	135	138	22.12			23.0	1.0
100	QPSK	270	0	22.19				
100	16QAM	1	1	22.77			23.5	0.5
100	64QAM	1	1	21.18			22.0	2.0
100	256QAM	1	1	19.52			20.5	3.5
Channel								
Frequency (MHz)				630668	633334	636000		
Channel				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
80	Pi2 BPSK	1	1	22.85	22.67	22.83	24.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
80	Pi2 BPSK	1	1	22.50	22.74	22.68	24.0	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
40	Pi2 BPSK	1	1	22.77	22.61	22.75	24.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	Pi2 BPSK	1	1	22.86	22.69	22.74	24.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	Pi2 BPSK	1	1	22.88	22.72	22.70	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3500.01				
100	Pi2 BPSK	1	1	25.81	633334			
100	Pi2 BPSK	1	137	25.60			27.0	0.0
100	Pi2 BPSK	1	271	25.57				
100	Pi2 BPSK	135	0	25.44			26.5	0.5
100	Pi2 BPSK	135	69	25.45			27.0	0.0
100	Pi2 BPSK	135	138	25.13			26.5	0.5
100	Pi2 BPSK	270	0	25.07				
100	QPSK	1	1	24.79			26.0	1.0
100	QPSK	1	137	24.69				
100	QPSK	1	271	24.58				
100	QPSK	135	0	24.07			25.5	1.5
100	QPSK	135	69	24.73			26.0	1.0
100	QPSK	135	138	23.85			25.5	1.5
100	QPSK	270	0	23.69				
100	16QAM	1	1	23.85			25.5	1.5
100	64QAM	1	1	22.28			24.0	3.0
100	256QAM	1	1	20.52			22.0	5.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
Channel				3490.02	3500.01	3510	Tune-up limit (dBm)	MPR (dB)
80	Pi2 BPSK	1	1	25.58	25.65	25.56	27.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
80	Pi2 BPSK	1	1	23.71	23.07	25.07	27.0	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
40	Pi2 BPSK	1	1	25.60	25.75	25.74	27.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	Pi2 BPSK	1	1	25.75	26.60	26.58	27.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	Pi2 BPSK	1	1	25.63	25.73	25.75	27.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750				
100	Pi2 BPSK	1	1	22.48	650000			
100	Pi2 BPSK	1	137	22.45			24.0	0.0
100	Pi2 BPSK	1	271	22.33				
100	Pi2 BPSK	135	0	22.17			23.5	0.5
100	Pi2 BPSK	135	69	22.42			24.0	0.0
100	Pi2 BPSK	135	138	22.08			23.5	0.5
100	Pi2 BPSK	270	0	22.04				
100	QPSK	1	1	21.56			23.0	1.0
100	QPSK	1	137	21.44				
100	QPSK	1	271	21.41				
100	QPSK	135	0	20.85			22.0	2.0
100	QPSK	135	69	21.53			23.0	1.0
100	QPSK	135	138	20.42			22.0	2.0
100	QPSK	270	0	20.60				
100	16QAM	1	1	20.84			22.0	2.0
100	64QAM	1	1	19.13			21.0	3.0
100	256QAM	1	1	17.62			19.0	5.0
Channel								
Frequency (MHz)				648668	650000	652334	Tune-up limit (dBm)	MPR (dB)
Channel				3745.02	3750	3755.01	Tune-up limit (dBm)	MPR (dB)
90	Pi2 BPSK	1	1	22.38	22.35	22.27	24.0	0.0
Channel								
Frequency (MHz)				649334	650000	650668	Tune-up limit (dBm)	MPR (dB)
80	Pi2 BPSK	1	1	22.22	22.44	22.42	24.0	0.0
Channel								
Frequency (MHz)				649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
70	Pi2 BPSK	1	1	22.38	22.38	22.27	24.0	0.0
Channel								
Frequency (MHz)				648668	650000	651334	Tune-up limit (dBm)	MPR (dB)
60	Pi2 BPSK	1	1	22.42	22.42	22.36	24.0	0.0
Channel								
Frequency (MHz)				648334	650000	651668	Tune-up limit (dBm)	MPR (dB)
50	Pi2 BPSK	1	1	22.21	22.31	22.30	24.0	0.0
Channel								
Frequency (MHz)				648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
40	Pi2 BPSK	1	1	22.29	22.42	22.23	24.0	0.0
Channel								
Frequency (MHz)				647668	650000	652334	Tune-up limit (dBm)	MPR (dB)
30	Pi2 BPSK	1	1	22.34	22.41	22.29	24.0	0.0
Channel								
Frequency (MHz)				647334	650000	652668	Tune-up limit (dBm)	MPR (dB)
20	Pi2 BPSK	1	1	22.40	22.32	22.26	24.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.29					
100	PI2 BPSK	1	137	24.11			26.0	0.0	
100	PI2 BPSK	1	271	23.91					
100	PI2 BPSK	135	9	23.87			25.0	1.0	
100	PI2 BPSK	135	69	24.21			26.0	0.0	
100	PI2 BPSK	135	138	23.54			25.0	1.0	
100	PI2 BPSK	270	0	23.77					
100	QPSK	1	1	23.36					
100	QPSK	1	137	23.21			25.0	1.0	
100	QPSK	1	271	23.09					
100	QPSK	135	0	22.43			23.5	2.5	
100	QPSK	135	69	23.18			25.0	1.0	
100	QPSK	135	138	22.06			23.5	2.5	
100	QPSK	270	0	22.15					
100	16QAM	1	1	22.45			24.0	2.0	
100	16QAM	1	1	20.93			22.5	3.5	
100	256QAM	1	1	19.17			21.0	5.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	24.07	24.17	24.03	26.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	24.00	24.28	24.12	26.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	24.09	24.08	24.03	26.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	24.14	24.28	24.09	26.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	24.10	24.07	24.03	26.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.05	24.13	24.00	26.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.03	24.25	23.97	26.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.15	24.07	24.08	26.0	0.0	

Part27Q n78 Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	22.91					
100	PI2 BPSK	1	137	22.83			24.0	0.0	
100	PI2 BPSK	1	271	22.75					
100	PI2 BPSK	135	0	22.48			23.5	0.5	
100	PI2 BPSK	135	69	22.75			24.0	0.0	
100	PI2 BPSK	135	138	22.35			23.5	0.5	
100	PI2 BPSK	270	0	22.41					
100	QPSK	1	1	21.93					
100	QPSK	1	137	21.81			23.0	1.0	
100	QPSK	1	271	21.85					
100	QPSK	135	0	21.28			22.0	2.0	
100	QPSK	135	69	22.03			23.0	1.0	
100	QPSK	135	138	20.86			22.0	2.0	
100	QPSK	270	0	20.94					
100	16QAM	1	1	21.12			22.5	1.5	
100	16QAM	1	1	19.66			21.0	3.0	
100	256QAM	1	1	18.16			19.5	4.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	22.90	22.85	22.70	24.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	22.90	22.90	22.71	24.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	22.67	22.89	22.71	24.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	22.87	22.78	22.84	24.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	22.81	22.70	22.69	24.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.80	22.73	22.72	24.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	22.84	22.60	22.77	24.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.87	22.84	22.81	24.0	0.0	

Part27Q n78 HPUe Ant 8									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.88					
100	PI2 BPSK	1	137	24.79			26.0	0.0	
100	PI2 BPSK	1	271	24.87					
100	PI2 BPSK	135	0	24.40			25.5	0.5	
100	PI2 BPSK	135	69	24.82			26.0	0.0	
100	PI2 BPSK	135	138	24.14			25.5	0.5	
100	PI2 BPSK	270	0	24.21					
100	QPSK	1	1	23.89					
100	QPSK	1	137	23.83			25.0	1.0	
100	QPSK	1	271	23.70					
100	QPSK	135	0	22.91			24.5	1.5	
100	QPSK	135	69	23.40			25.0	1.0	
100	QPSK	135	138	22.54			24.5	1.5	
100	QPSK	270	0	22.62					
100	16QAM	1	1	22.92			24.5	1.5	
100	16QAM	1	1	21.37			23.0	3.0	
100	256QAM	1	1	19.61			21.5	4.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	24.66	24.74	24.66	26.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	24.77	24.79	24.77	26.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	24.83	24.67	24.79	26.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	24.70	24.67	24.76	26.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	24.82	24.81	24.57	26.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.82	24.77	24.80	26.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.83	24.83	24.69	26.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.77	24.80	24.81	26.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	23.34	23.46	23.42		
100	PI2 BPSK	1	137	23.25	23.17	23.20	24.0	0.0
100	PI2 BPSK	1	271	23.05	23.26	23.12		
100	PI2 BPSK	135	0	23.09	23.19	23.09	23.5	0.5
100	PI2 BPSK	135	69	23.18	23.39	23.25	24.0	0.0
100	PI2 BPSK	135	138	22.98	23.16	23.03	23.5	0.5
100	PI2 BPSK	270	0	22.84	22.89	22.82		
100	QPSK	1	1	22.49	22.65	22.53		
100	QPSK	1	137	22.33	22.27	22.25	24.0	0.0
100	QPSK	1	271	22.39	22.46	22.23		
100	QPSK	135	0	21.58	21.77	21.73	23.0	1.0
100	QPSK	135	69	22.29	22.29	22.14	24.0	0.0
100	QPSK	135	138	21.26	21.39	21.26	23.0	1.0
100	QPSK	270	0	21.20	21.42	21.31		
100	16QAM	1	1	21.87	21.89	21.80	23.0	1.0
100	16QAM	1	1	20.12	20.19	20.04	21.5	2.5
100	256QAM	1	1	18.57	18.71	18.70	19.5	4.5
Channel								
Frequency (MHz)				649334	656000	662666	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	23.30	23.39	23.30	24.0	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	23.33	23.41	23.40	24.0	0.0
Channel								
Frequency (MHz)				649000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	PI2 BPSK	1	1	23.34	23.37	23.42	24.0	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	PI2 BPSK	1	1	23.26	23.40	23.35	24.0	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	23.32	23.45	23.27	24.0	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	25.52	25.62	25.58		
100	PI2 BPSK	1	137	25.21	25.27	25.17	26.5	0.0
100	PI2 BPSK	1	271	24.99	25.00	24.83		
100	PI2 BPSK	135	0	24.74	24.91	24.78	26.0	0.5
100	PI2 BPSK	135	69	24.73	24.94	24.77	26.5	0.0
100	PI2 BPSK	135	138	24.53	24.59	24.48	26.0	0.5
100	PI2 BPSK	270	0	24.49	24.51	24.47		
100	QPSK	1	1	24.58	24.69	24.52		
100	QPSK	1	137	24.17	24.22	24.13	25.5	1.0
100	QPSK	1	271	24.10	24.27	24.06		
100	QPSK	135	0	23.56	23.57	23.38	24.5	2.0
100	QPSK	135	69	24.05	24.13	24.08	25.5	1.0
100	QPSK	135	138	23.08	23.15	23.11	24.5	2.0
100	QPSK	270	0	23.09	23.21	23.10		
100	16QAM	1	1	23.05	23.09	23.02	24.5	2.0
100	64QAM	1	1	21.51	21.66	21.58	23.0	3.5
100	256QAM	1	1	19.54	19.71	19.54	21.5	5.0
Channel								
Frequency (MHz)				649334	656000	662666	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	25.40	25.59	25.58	26.5	0.0
Channel								
Frequency (MHz)				648668	656000	663334	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	25.43	25.55	25.57	26.5	0.0
Channel								
Frequency (MHz)				649000	656000	664000	Tune-up limit (dBm)	MPR (dB)
40	PI2 BPSK	1	1	25.37	25.48	25.38	26.5	0.0
Channel								
Frequency (MHz)				647668	656000	664334	Tune-up limit (dBm)	MPR (dB)
30	PI2 BPSK	1	1	25.41	25.45	25.49	26.5	0.0
Channel								
Frequency (MHz)				647334	656000	664668	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	25.45	25.53	25.52	26.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)						3500.01		
100	PI2 BPSK	1	1			23.47		
100	PI2 BPSK	1	137			23.05	24.0	0.0
100	PI2 BPSK	1	271			23.06		
100	PI2 BPSK	135	0			23.08	23.5	0.5
100	PI2 BPSK	135	69			23.30	24.0	0.0
100	PI2 BPSK	135	138			23.04	23.5	0.5
100	PI2 BPSK	270	0			22.89		
100	QPSK	1	1			22.53		
100	QPSK	1	137			22.14	23.0	1.0
100	QPSK	1	271			22.28		
100	QPSK	135	0			21.77	22.0	2.0
100	QPSK	135	69			22.29	23.0	1.0
100	QPSK	135	138			21.24	22.0	2.0
100	QPSK	270	0			21.31		
100	16QAM	1	1			21.42	22.0	2.0
100	64QAM	1	1			19.88	20.5	3.5
100	256QAM	1	1			18.33	19.0	5.0
Channel								
Frequency (MHz)				632668	633334	634000	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	23.31	23.30	23.22	24.0	0.0
Channel								
Frequency (MHz)				632000	633334	634668	Tune-up limit (dBm)	MPR (dB)
80	PI2 BPSK	1	1	23.21	23.40	23.34	24.0	0.0
Channel								
Frequency (MHz)				631334	633334	635334	Tune-up limit (dBm)	MPR (dB)
40	PI2 BPSK	1	1	23.35	23.37	23.32	24.0	0.0
Channel								
Frequency (MHz)				631000	633334	635668	Tune-up limit (dBm)	MPR (dB)
30	PI2 BPSK	1	1	23.34	23.42	23.24	24.0	0.0
Channel								
Frequency (MHz)				630668	633334	636000	Tune-up limit (dBm)	MPR (dB)
20	PI2 BPSK	1	1	23.44	23.36	23.30	24.0	0.0



Part27Q n78 Ant 9										
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)										
				3500.01						
100	PI2 BPSK	1	1		22.30					
100	PI2 BPSK	1	137		22.25			0.0		
100	PI2 BPSK	1	271		22.16					
100	PI2 BPSK	135	0		21.99			23.5	0.5	
100	PI2 BPSK	135	69		22.21			24.0	0.0	
100	PI2 BPSK	135	138		21.82			23.5	0.5	
100	PI2 BPSK	270	0		21.69					
100	QPSK	1	1		21.24					
100	QPSK	1	137		21.07			23.0	1.0	
100	QPSK	1	271		21.04					
100	QPSK	135	0		20.56			22.0	2.0	
100	QPSK	135	69		21.19			23.0	1.0	
100	QPSK	135	138		20.20			22.0	2.0	
100	QPSK	270	0		20.38					
100	16QAM	1	1		20.37			22.0	2.0	
100	64QAM	1	1		18.83			20.5	3.5	
100	256QAM	1	1		17.94			19.0	5.0	
Channel				633000	633334	633668				
Frequency (MHz)				3495	3500.01	3505.02				
90	PI2 BPSK	1	1		22.17	22.16	22.04	24.0	0.0	
Channel										
Frequency (MHz)										
				632668	633334	634000	Tune-up limit (dBm)	MPR		
80	PI2 BPSK	1	1		3490.02	3500.01	3510			
Channel										
Frequency (MHz)										
				632334	633334	634334	Tune-up limit (dBm)	MPR		
70	PI2 BPSK	1	1		3486.01	3500.01	3515.01			
Channel										
Frequency (MHz)										
				632000	633334	634668	Tune-up limit (dBm)	MPR		
60	PI2 BPSK	1	1		22.17	22.25	22.05	24.0	0.0	
Channel										
Frequency (MHz)										
				631668	633334	635000	Tune-up limit (dBm)	MPR		
50	PI2 BPSK	1	1		3475.02	3500.01	3525			
Channel										
Frequency (MHz)										
				3470.01	3500.01	3530.01				
40	PI2 BPSK	1	1		22.04	22.18	21.97	24.0	0.0	
Channel										
Frequency (MHz)										
				631000	633334	635668	Tune-up limit (dBm)	MPR		
30	PI2 BPSK	1	1		3465	3500.01	3532.02			
Channel										
Frequency (MHz)										
				630668	633334	636000	Tune-up limit (dBm)	MPR		
20	PI2 BPSK	1	1		3460.02	3500.01	3540			

Part27Q n78 HPUE Ant 9										
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)										
				3500.01						
100	PI2 BPSK	1	1		24.07					
100	PI2 BPSK	1	137		23.81			25.5	0.0	
100	PI2 BPSK	1	271		23.70					
100	PI2 BPSK	135	0		23.39			25.0	0.5	
100	PI2 BPSK	135	69		23.84			25.5	0.0	
100	PI2 BPSK	135	138		23.47			25.0	0.5	
100	PI2 BPSK	270	0		23.38					
100	QPSK	1	1		23.10					
100	QPSK	1	137		23.05			24.5	1.0	
100	QPSK	1	271		23.02					
100	QPSK	135	0		22.59			24.0	1.5	
100	QPSK	135	69		23.06			24.5	1.0	
100	QPSK	135	138		22.18			24.0	1.5	
100	QPSK	270	0		22.23					
100	16QAM	1	1		22.15			24.0	1.5	
100	64QAM	1	1		20.63			22.5	3.0	
100	256QAM	1	1		18.13			21.0	4.5	
Channel				633000	633334	633668				
Frequency (MHz)				3495	3500.01	3505.02				
90	PI2 BPSK	1	1		23.97	23.92	24.01	25.5	0.0	
Channel										
Frequency (MHz)										
				632668	633334	634000	Tune-up limit (dBm)	MPR		
80	PI2 BPSK	1	1		3490.02	3500.01	3510			
Channel										
Frequency (MHz)										
				632334	633334	634334	Tune-up limit (dBm)	MPR		
70	PI2 BPSK	1	1		23.86	23.95	23.88	25.5	0.0	
Channel										
Frequency (MHz)										
				632000	633334	634668	Tune-up limit (dBm)	MPR		
60	PI2 BPSK	1	1		23.98	23.98	23.79	25.5	0.0	
Channel										
Frequency (MHz)										
				631668	633334	635000	Tune-up limit (dBm)	MPR		
50	PI2 BPSK	1	1		3475.02	3500.01	3525			
Channel										
Frequency (MHz)										
				3470.01	3500.01	3530.01				
40	PI2 BPSK	1	1		23.87	23.97	23.97	25.5	0.0	
Channel										
Frequency (MHz)										
				631000	633334	635668	Tune-up limit (dBm)	MPR		
30	PI2 BPSK	1	1		3465	3500.01	3532.02			
Channel										
Frequency (MHz)										
				630668	633334	636000	Tune-up limit (dBm)	MPR		
20	PI2 BPSK	1	1		3460.02	3500.01	3540			



n48 Part96 Ant 8 DSI1

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)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	20.57	20.62	20.38		
40	PI2 BPSK	1	53	20.46	20.57	20.44	22.0	0.0
40	PI2 BPSK	1	104	20.61	20.60	20.37		
40	PI2 BPSK	50	0	20.57	20.51	20.46	22.0	0.0
40	PI2 BPSK	50	28	20.53	20.59	20.48	22.0	0.0
40	PI2 BPSK	50	58	20.53	20.55	20.44	22.0	0.0
40	PI2 BPSK	100	0	20.51	20.58	20.50		
40	QPSK	1	1	20.47	20.54	20.39		
40	QPSK	1	53	20.52	20.58	20.46	22.0	0.0
40	QPSK	1	104	20.52	20.57	20.42		
40	QPSK	50	0	20.45	20.55	20.50	21.5	0.5
40	QPSK	50	28	20.58	20.56	20.50	22.0	0.0
40	QPSK	50	58	20.04	20.07	20.06	21.5	0.5
40	QPSK	100	0	20.43	20.45	20.23		
40	16QAM	1	1	20.36	20.37	20.17	21.5	0.5
40	16QAM	1	1	18.88	18.85	18.73	20.0	2.0
40	256QAM	1	1	17.19	17.32	17.30	18.5	3.5
Channel								
Frequency (MHz)				3550.01	3624.99	3690		
20	PI2 BPSK	1	1	20.57	20.58	20.38	22.0	0.0

n48 Part96 Ant 8 DSI1 For ENDC

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)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	17.55	17.66	17.37		
40	PI2 BPSK	1	53	17.38	17.49	17.39	19.0	0.0
40	PI2 BPSK	1	104	17.62	17.60	17.45		
40	PI2 BPSK	50	0	17.48	17.56	17.50	19.0	0.0
40	PI2 BPSK	50	28	17.50	17.64	17.46	19.0	0.0
40	PI2 BPSK	50	58	17.54	17.51	17.51	19.0	0.0
40	PI2 BPSK	100	0	17.51	17.63	17.48		
40	QPSK	1	1	17.38	17.54	17.32		
40	QPSK	1	53	17.31	17.40	17.29	19.0	0.0
40	QPSK	1	104	17.47	17.53	17.26		
40	QPSK	50	0	17.51	17.39	17.38	19.0	0.0
40	QPSK	50	28	17.51	17.42	17.32	19.0	0.0
40	QPSK	50	58	17.40	17.41	17.31	19.0	0.0
40	QPSK	100	0	17.44	17.46	17.34		
40	16QAM	1	1	17.41	17.60	17.37	19.0	0.0
40	16QAM	1	1	17.37	17.54	17.38	19.0	0.0
40	256QAM	1	1	17.19	17.32	17.30	18.5	3.5
Channel								
Frequency (MHz)				3550.01	3624.99	3690		
20	PI2 BPSK	1	1	17.48	17.50	17.42	19.0	0.0

n48 Part96 Ant 8 DSI2&DSI5 For ENDC

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)				3570	3624.99	3679.98		
40	PI2 BPSK	1	1	21.53	21.66	21.58		
40	PI2 BPSK	1	53	21.45	21.54	21.48	22.5	0.0
40	PI2 BPSK	1	104	21.45	21.53	21.45		
40	PI2 BPSK	50	0	21.45	21.54	21.47	22.5	0.0
40	PI2 BPSK	50	28	21.40	21.55	21.46	22.5	0.0
40	PI2 BPSK	50	58	21.47	21.50	21.45	22.5	0.0
40	PI2 BPSK	100	0	21.41	21.54	21.48		
40	QPSK	1	1	21.09	21.29	21.29		
40	QPSK	1	53	21.19	21.22	21.17	22.5	0.0
40	QPSK	1	104	21.11	21.12	21.03		
40	QPSK	50	0	20.45	20.55	20.50	21.5	1.0
40	QPSK	50	28	21.02	21.20	21.14	22.5	0.0
40	QPSK	50	58	20.04	20.07	20.06	21.5	1.0
40	QPSK	100	0	20.43	20.45	20.23		
40	16QAM	1	1	20.36	20.37	20.17	21.5	1.0
40	16QAM	1	1	18.68	18.85	18.73	20.0	2.5
40	256QAM	1	1	17.19	17.32	17.30	18.5	4.0
Channel								
Frequency (MHz)				3550.01	3624.99	3690		
20	PI2 BPSK	1	1	19.57	19.58	19.38	22.5	0.0



Part270 n77 HPUE Ant 8 DSI2&DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	25.04	25.09	25.05			
100	PI2 BPSK	1	137	24.99	25.01	24.91	26.5	0.0	
100	PI2 BPSK	1	271	24.90	25.00	24.98			
100	PI2 BPSK	135	6	24.93	25.03	24.97	26.5	0.0	
100	PI2 BPSK	135	69	24.97	25.04	24.90	26.5	0.0	
100	PI2 BPSK	135	138	24.97	24.97	24.94	26.5	0.0	
100	PI2 BPSK	270	0	24.88	24.99	24.92			
100	QPSK	1	1	24.54	24.73	24.53			
100	QPSK	1	137	24.49	24.52	24.37	26.0	0.5	
100	QPSK	1	271	24.29	24.37	24.27			
100	QPSK	135	0	23.95	24.00	23.81	25.5	1.0	
100	QPSK	135	69	24.35	24.52	24.40	26.0	0.5	
100	QPSK	135	138	23.99	23.80	23.80	25.5	1.0	
100	QPSK	270	0	23.80	23.87	23.63			
100	16QAM	1	1	23.83	23.96	23.92	25.5	1.0	
100	16QAM	1	1	22.35	22.46	22.44	24.0	2.5	
100	256QAM	1	1	20.63	20.73	20.66	22.5	4.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	24.43	24.59	24.44	26.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	24.47	24.89	24.43	26.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.47	24.84	24.42	26.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.49	24.83	24.38	26.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.41	24.68	24.46	26.5	0.0	

Part270 n77 HPUE Ant 8 DSI2&DSI5 For ENDC									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	21.85	22.05	21.97			
100	PI2 BPSK	1	137	21.88	21.97	22.00	23.5	0.0	
100	PI2 BPSK	1	271	21.92	21.96	22.01			
100	PI2 BPSK	135	0	21.91	21.94	22.01	23.5	0.0	
100	PI2 BPSK	135	69	21.94	22.02	21.89	23.5	0.0	
100	PI2 BPSK	135	138	21.94	21.95	21.99	23.5	0.0	
100	PI2 BPSK	270	0	21.82	21.99	21.90			
100	QPSK	1	1	21.83	21.95	21.97			
100	QPSK	1	137	21.82	21.94	21.93	23.5	0.0	
100	QPSK	1	271	21.86	22.01	21.89			
100	QPSK	135	0	21.88	21.95	21.90	23.5	0.0	
100	QPSK	135	69	21.84	22.03	22.01	23.5	0.0	
100	QPSK	135	138	21.83	22.03	21.95	23.5	0.0	
100	QPSK	270	0	21.88	22.01	21.91			
100	16QAM	1	1	21.86	22.01	22.00	23.5	0.0	
100	16QAM	1	1	21.94	21.98	21.88	23.5	0.0	
100	256QAM	1	1	20.63	20.73	20.66	22.5	4.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	21.53	21.59	21.61	23.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	21.55	21.56	21.61	23.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	21.47	21.58	21.60	23.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	21.52	21.58	21.60	23.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.44	21.62	21.59	23.5	0.0	

Part27Q n77 Ant 8 DSI1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		20.26		21.5	0.0	
100	PI2 BPSK	1	271		20.07				
100	PI2 BPSK	135	0		20.18		21.5	0.0	
100	PI2 BPSK	135	69		20.19		21.5	0.0	
100	PI2 BPSK	135	138		20.05		21.5	0.0	
100	PI2 BPSK	270	0		20.11				
100	QPSK	1	1		20.15				
100	QPSK	1	137		19.93		21.5	0.0	
100	QPSK	1	271		20.08				
100	QPSK	135	0		19.95		21.5	0.0	
100	QPSK	135	69		20.14		21.5	0.0	
100	QPSK	135	138		20.06		21.5	0.0	
100	QPSK	270	0		20.01				
100	16QAM	1	1		19.98		21.5	0.0	
100	16QAM	1	1		19.92		21.5	0.0	
100	256QAM	1	1		19.92		20.5	1.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	19.63	19.64	19.46	#VALUE!	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	19.59	19.72	19.63	#VALUE!	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	19.61	19.70	19.52	#VALUE!	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	19.69	19.63	19.58	#VALUE!	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	19.67	19.70	19.51	#VALUE!	0.0	



Part27Q n77 HPUE Ant 8 DS11									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		23.25				
100	PI2 BPSK	1	271		22.84		24.5	0.0	
100	PI2 BPSK	135	0		22.85		24.5	0.0	
100	PI2 BPSK	135	69		23.00		24.5	0.0	
100	PI2 BPSK	135	138		22.83		24.5	0.0	
100	PI2 BPSK	270	0		22.88				
100	QPSK	1	1		22.86		24.5	0.0	
100	QPSK	1	137		22.84				
100	QPSK	1	271		23.09				
100	QPSK	135	0		22.85		24.5	0.0	
100	QPSK	135	69		22.81		24.5	0.0	
100	QPSK	135	138		23.12		24.5	0.0	
100	QPSK	270	0		22.88				
100	16QAM	1	1		22.80		24.5	0.0	
100	16QAM	1	1		22.48		24.0	0.5	
100	256QAM	1	1		20.52		22.0	2.5	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	630688	633334	636000			
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	22.41	22.48	22.40	24.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	632000	633334	634668			
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	3460.02	3500.01	3510	24.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	631334	633334	635334			
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.42	22.49	22.35	24.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	631000	633334	635668			
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	3460.02	3500.01	3540	24.5	0.0	

Part27Q n77 HPUE Ant 8 DS11 For ENDC									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		20.22				
100	PI2 BPSK	1	271		19.97		21.5	0.0	
100	PI2 BPSK	135	0		19.98		21.5	0.0	
100	PI2 BPSK	135	69		20.11		21.5	0.0	
100	PI2 BPSK	135	138		20.15		21.5	0.0	
100	PI2 BPSK	270	0		19.96		21.5	0.0	
100	QPSK	1	1		20.05				
100	QPSK	1	137		20.00		21.5	0.0	
100	QPSK	1	271		20.19				
100	QPSK	135	0		20.08		21.5	0.0	
100	QPSK	135	69		20.01		21.5	0.0	
100	QPSK	135	138		20.13		21.5	0.0	
100	QPSK	270	0		19.99				
100	16QAM	1	1		19.91		21.5	0.0	
100	16QAM	1	1		20.05		21.5	0.0	
100	256QAM	1	1		19.89		21.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	630688	633334	636000			
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	19.57	19.65	19.53	#VALUE!	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	632000	633334	634668			
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	19.63	19.63	19.59	#VALUE!	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	631334	633334	635334			
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	19.51	19.68	19.52	#VALUE!	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	631000	633334	635668			
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	19.60	19.60	19.62	#VALUE!	0.0	

Part27Q n77 HPUE Ant 8 DSI2&DSI5									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3500.01				
100	PI2 BPSK	1	137		25.35				
100	PI2 BPSK	1	271		25.24		26.5	0.0	
100	PI2 BPSK	135	0		25.25		26.5	0.0	
100	PI2 BPSK	135	69		25.21		26.5	0.0	
100	PI2 BPSK	135	138		25.23		26.5	0.0	
100	PI2 BPSK	270	0		25.21		26.5	0.0	
100	QPSK	1	1		24.79				
100	QPSK	1	137		24.69		26.0	0.5	
100	QPSK	1	271		24.58				
100	QPSK	135	0		24.07		25.5	1.0	
100	QPSK	135	69		24.73		28.0	0.5	
100	QPSK	135	138		23.65		25.5	1.0	
100	QPSK	270	0		23.69				
100	16QAM	1	1		23.85		25.5	1.0	
100	16QAM	1	1		22.28		24.0	2.5	
100	256QAM	1	1		20.52		22.0	4.5	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	630688	633334	636000			
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	24.56	24.74	24.63	26.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	632000	633334	634668			
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	24.54	24.72	24.61	26.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	631334	633334	635334			
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.56	24.68	24.61	26.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	631000	633334	635668			
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.56	24.73	24.60	26.5	0.0	



Part270 n78 Ant 8 DS12&DS15

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). Rows include various modulation types like Pi2 BPSK and QPSK across different frequencies and power levels.

Part270 n78 Ant 8 DS12&DS15 For ENDC

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). Similar to the first table but with specific power and tune-up values for ENDC.

Part270 n78 HPUE Ant 8 DS11

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). Similar to the first table but with specific power and tune-up values for HPUE.



Part270 n78 HPUE Ant 8 DSI1 For ENDC									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3750				
100	PI2 BPSK	1	137		19.65		21.5	0.0	
100	PI2 BPSK	1	271		19.66				
100	PI2 BPSK	135	0		19.66		21.5	0.0	
100	PI2 BPSK	135	69		19.77		21.5	0.0	
100	PI2 BPSK	135	138		19.72		21.5	0.0	
100	PI2 BPSK	270	0		19.73				
100	QPSK	1	1		19.67		21.5	0.0	
100	QPSK	1	137		19.72				
100	QPSK	1	271		19.67				
100	QPSK	135	0		19.70		21.5	0.0	
100	QPSK	135	69		19.67		21.5	0.0	
100	QPSK	135	138		19.71				
100	QPSK	270	0		19.71				
100	16QAM	1	1		19.73		21.5	0.0	
100	16QAM	1	1		19.69		21.5	0.0	
100	256QAM	1	1		19.17		21.0	0.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1		648668	650000			
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1		649334	650000			
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1		648668	650000			
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1		648334	650000			
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1		647668	650000			
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1		647668	650000			
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1		647334	650000			
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1		3710.01	3750	3750.02	21.5	0.0

Part270 n78 HPUE Ant 8 DSI2&DSI5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3750				
100	PI2 BPSK	1	137		24.11		26.0	0.0	
100	PI2 BPSK	1	271		23.91				
100	PI2 BPSK	135	0		23.87		25.0	1.0	
100	PI2 BPSK	135	69		24.21		26.0	0.0	
100	PI2 BPSK	135	138		23.54		25.0	1.0	
100	PI2 BPSK	270	0		23.77				
100	QPSK	1	1		23.36		25.0	1.0	
100	QPSK	1	137		23.21				
100	QPSK	1	271		23.09				
100	QPSK	135	0		22.43		23.5	2.5	
100	QPSK	135	69		23.18		25.0	1.0	
100	QPSK	135	138		22.06		23.5	2.5	
100	QPSK	270	0		22.15				
100	16QAM	1	1		22.45		24.0	2.0	
100	16QAM	1	1		20.93		22.5	3.5	
100	256QAM	1	1		19.17		21.0	5.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1		648668	650000			
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1		649000	650000			
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1		648668	650000			
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1		648334	650000			
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1		647668	650000			
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1		647668	650000			
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1		647334	650000			
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1		24.15	24.07	24.08	26.0	0.0

Part270 n78 HPUE Ant 8 DSI2&DSI5 For ENDC									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1		3750				
100	PI2 BPSK	1	137		21.79		23.5	0.0	
100	PI2 BPSK	1	271		21.73				
100	PI2 BPSK	135	0		21.69		23.5	0.0	
100	PI2 BPSK	135	69		21.82		23.5	0.0	
100	PI2 BPSK	135	138		21.75		23.5	0.0	
100	PI2 BPSK	270	0		21.80				
100	QPSK	1	1		21.82		23.5	0.0	
100	QPSK	1	137		21.79				
100	QPSK	1	271		21.84				
100	QPSK	135	0		21.76		23.5	0.0	
100	QPSK	135	69		21.80		23.5	0.0	
100	QPSK	135	138		21.80		23.5	0.0	
100	QPSK	270	0		21.74				
100	16QAM	1	1		21.86		23.5	0.0	
100	16QAM	1	1		20.93		22.5	1.0	
100	256QAM	1	1		19.17		21.0	2.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1		648668	650000			
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1		649000	650000			
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1		648668	650000			
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1		648334	650000			
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1		647668	650000			
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1		647668	650000			
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1		647334	650000			
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1		21.40	21.52	21.52	23.5	0.0



Part27Q n78 HPUE Ant 8 DSII&DSI5							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				633334			
Frequency (MHz)				3500.01			
100	PI2 BPSK	1	1	24.88			
100	PI2 BPSK	1	137	24.79			0.0
100	PI2 BPSK	1	271	24.67			
100	PI2 BPSK	135	0	24.40			25.5 0.5
100	PI2 BPSK	135	69	24.82			26.0 0.0
100	PI2 BPSK	135	138	24.14			25.5 0.5
100	PI2 BPSK	270	0	24.21			
100	QPSK	1	1	23.83			
100	QPSK	1	137	23.83			25.0 1.0
100	QPSK	1	271	23.70			
100	QPSK	135	0	22.91			24.5 1.5
100	QPSK	135	69	23.40			25.0 1.0
100	QPSK	135	138	22.54			24.5 1.5
100	QPSK	270	0	22.82			
100	16QAM	1	1	22.82			24.5 1.5
100	64QAM	1	1	21.37			23.0 3.0
100	256QAM	1	1	19.61			21.5 4.5
Channel				633000	633334	633668	
Frequency (MHz)				3495	3500.01	3505.02	
90	PI2 BPSK	1	1	24.66	24.74	24.66	26.0 0.0
Channel				632668	633334	634000	
Frequency (MHz)				3490.02	3500.01	3510	
80	PI2 BPSK	1	1	24.77	24.70	24.77	26.0 0.0
Channel				632334	633334	634334	
Frequency (MHz)				3486.01	3500.01	3515.01	
70	PI2 BPSK	1	1	24.83	24.67	24.79	26.0 0.0
Channel				632000	633334	634668	
Frequency (MHz)				3480	3500.01	3520.02	
60	PI2 BPSK	1	1	24.70	24.67	24.78	26.0 0.0
Channel				631668	633334	635000	
Frequency (MHz)				3475.02	3500.01	3505	
50	PI2 BPSK	1	1	24.73	24.81	24.67	26.0 0.0
Channel				631334	633334	635334	
Frequency (MHz)				3470.01	3500.01	3530.01	
40	PI2 BPSK	1	1	24.82	24.77	24.60	26.0 0.0
Channel				631000	633334	635668	
Frequency (MHz)				3465	3500.01	6353.02	
30	PI2 BPSK	1	1	24.83	24.83	24.69	26.0 0.0
Channel				630668	633334	636000	
Frequency (MHz)				3460.02	3500.01	3540	
20	PI2 BPSK	1	1	24.77	24.80	24.61	26.0 0.0

Part27Q n78 HPUE Ant 8 DSII&DSI5 For ENDC							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	MPR (dB)
Channel				633334			
Frequency (MHz)				3500.01			
100	PI2 BPSK	1	1	22.03			
100	PI2 BPSK	1	137	21.82			23.5 0.0
100	PI2 BPSK	1	271	21.74			
100	PI2 BPSK	135	0	21.90			23.5 0.0
100	PI2 BPSK	135	69	21.92			23.5 0.0
100	PI2 BPSK	135	138	21.63			23.5 0.0
100	PI2 BPSK	270	0	21.85			
100	QPSK	1	1	21.78			
100	QPSK	1	137	21.78			23.5 0.0
100	QPSK	1	271	21.86			
100	QPSK	135	0	21.77			23.5 0.0
100	QPSK	135	69	21.71			23.5 0.0
100	QPSK	135	138	21.85			23.5 0.0
100	QPSK	270	0	21.68			
100	16QAM	1	1	21.71			23.5 0.0
100	64QAM	1	1	21.37			23.0 0.5
100	256QAM	1	1	19.81			21.5 2.0
Channel				633000	633334	633668	
Frequency (MHz)				3495	3500.01	3505.02	
90	PI2 BPSK	1	1	21.27	21.51	21.49	23.5 0.0
Channel				632668	633334	634000	
Frequency (MHz)				3490.02	3500.01	3510	
80	PI2 BPSK	1	1	21.59	21.52	21.42	23.5 0.0
Channel				632334	633334	634334	
Frequency (MHz)				3486.01	3500.01	3515.01	
70	PI2 BPSK	1	1	21.28	21.45	21.41	23.5 0.0
Channel				632000	633334	634668	
Frequency (MHz)				3480	3500.01	3520.02	
60	PI2 BPSK	1	1	21.30	21.48	21.37	23.5 0.0
Channel				631668	633334	635000	
Frequency (MHz)				3475.02	3500.01	3525	
50	PI2 BPSK	1	1	21.31	21.50	21.38	23.5 0.0
Channel				631334	633334	635334	
Frequency (MHz)				3470.01	3500.01	3530.01	
40	PI2 BPSK	1	1	21.34	21.53	21.51	23.5 0.0
Channel				631000	633334	635668	
Frequency (MHz)				3465	3500.01	6353.02	
30	PI2 BPSK	1	1	21.29	21.55	21.40	23.5 0.0
Channel				630668	633334	636000	
Frequency (MHz)				3460.02	3500.01	3540	
20	PI2 BPSK	1	1	21.36	21.55	21.41	23.5 0.0



2.4GHz WLAN			Art 4 Head DBS only		Art 2/4 Head DBS only		Art 2 Head DBS simultaneous		Art 4 Head DBS simultaneous		Art 2/4 Head DBS simultaneous		Art 2 Body-worn/Hotspot non DBS simultaneous Body-worn/Hotspot DBS simultaneous Extremity non DBS simultaneous Extremity DBS		Body-worn/Hotspot non DBS simultaneous Body-worn/Hotspot DBS simultaneous Extremity non DBS simultaneous Extremity DBS		Body-worn/Hotspot non DBS simultaneous Body-worn/Hotspot DBS simultaneous Extremity non DBS simultaneous Extremity DBS		Duty Cycle %	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	12.99	14.00	17.56	18.50	9.66	11.00	6.94	8.00	11.52	12.50	14.38	15.50	11.85	12.50	16.31	17.00	100
		6	2437	12.97	14.00	17.17	18.50	9.15	11.00	6.50	8.00	11.50	12.50	14.08	15.50	11.85	12.50	16.01	17.00	
		11	2462	12.19	14.00	16.85	18.50	9.04	11.00	6.18	8.00	10.85	12.50	13.81	15.50	11.06	12.50	15.66	17.00	
	802.11g 6Mbps	1	2412		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	99.31
		6	2437		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	
		11	2462		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	
	802.11n-HT20 MCS0	1	2412		13.00		17.50		11.00		8.00		12.50		15.50		12.50		17.00	100
		6	2437		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	
		11	2462		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	
	802.11n-HT40 MCS0	3	2422		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	100
		6	2437	Not Required	14.00	Not Required	18.50	11.00	Not Required	8.00	Not Required	12.50	15.50	Not Required	12.50	Not Required	12.50	Not Required	17.00	
		9	2452		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	
802.11ax-HE20 MCS0	1	2412		13.50		17.50		11.00		8.00		12.50		15.50		12.50		17.00	100	
	6	2437		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00		
	11	2462		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00		
802.11ax-HE40 MCS0	3	2422		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00	100	
	6	2437		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00		
	9	2452		14.00		18.50		11.00		8.00		12.50		15.50		12.50		17.00		



5.8GHz WLAN			Art 4 HtSpd non DBS simultaneous		Art 3-4 HtSpd non DBS simultaneous		Art 3 Head non DBS simultaneous		Art 4 Head non DBS simultaneous		Art 3-4 Head non DBS simultaneous		Art 3 Bodyworn non DBS simultaneous Extremity non DBS simultaneous		Art 4 Bodyworn non DBS simultaneous Extremity non DBS simultaneous		Art 3-4 Bodyworn non DBS simultaneous Extremity non DBS simultaneous		Duty Cycle %		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
802.11a 4Mbps	149	5745		10.00		15.50		15.50		10.50		17.00		17.00		12.00		18.50	99.32		
	157	5785		10.00		15.50		15.50		10.50		17.00		17.00		12.00		18.50			
	165	5825		10.00		15.50		15.50		10.50		17.00		17.00		12.00		18.50			
	149	5745		10.00		15.50		15.50		10.50		17.00		17.00		12.00		18.50			
	802.11a-HT20 MCS0	157	5785		10.00		15.50		15.50		10.50		17.00		17.00		12.00			18.50	100
		165	5825		10.00		15.50		15.50		10.50		17.00		17.00		12.00			18.50	
		151	5755	Not Required	10.00	Not Required	15.50	Not Required	15.50	Not Required	10.50	Not Required	17.00	Not Required	17.00	Not Required	12.00	Not Required		18.50	
		159	5795	Not Required	10.00	Not Required	15.50	Not Required	15.50	Not Required	10.50	Not Required	17.00	Not Required	17.00	Not Required	12.00	Not Required		18.50	
	802.11a-HT40 MCS0	149	5745		10.00		15.50		15.50		10.50		17.00		17.00		12.00			18.50	100
		157	5785		10.00		15.50		15.50		10.50		17.00		17.00		12.00			18.50	
		165	5825		10.00		15.50		15.50		10.50		17.00		17.00		12.00			18.50	
		151	5755	Not Required	10.00	Not Required	15.50	Not Required	15.50	Not Required	10.50	Not Required	17.00	Not Required	17.00	Not Required	12.00	Not Required		18.50	
802.11a-HT80 MCS0	159	5795		10.00		15.50		15.50		10.50		17.00		17.00		12.00		18.50	100		
	159	5795	8.99	10.00	15.08	15.50	14.15	15.50	8.98	10.50	14.80	17.00	15.25	17.00	10.34	12.00	16.09	18.50			
	149	5745		10.00		15.50		15.50		10.50		17.00		17.00		12.00		18.50			
	157	5785		10.00		15.50		15.50		10.50		17.00		17.00		12.00		18.50			
802.11ax-HE20 MCS0	165	5825		10.00		15.50		15.50		10.50		17.00		17.00		12.00		18.50	100		
	151	5755	Not Required	10.00	Not Required	15.50	Not Required	15.50	Not Required	10.50	Not Required	17.00	Not Required	17.00	Not Required	12.00	Not Required	18.50			
	159	5795		10.00		15.50		15.50		10.50		17.00		17.00		12.00		18.50			
	155	5775		10.00		15.50		15.50		10.50		17.00		17.00		12.00		18.50			