



Full Power level/Default Power level for WWAN

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.6	(dBm)	824.2	836.4	848.6	(dBm)
GSM 1 Tx slot	32.78	32.84	32.77	34.00	23.78	23.84	23.77	25.00
GPRS 1 Tx slot	33.03	33.01	33.00	34.00	24.03	24.01	24.00	25.00
GPRS 2 Tx slots	28.76	29.75	29.78	31.00	23.76	23.75	23.78	25.00
GPRS 3 Tx slots	27.74	27.85	27.81	29.20	23.48	23.59	23.55	24.84
GPRS 4 Tx slots	26.26	26.33	26.32	28.00	23.26	23.33	23.32	25.00
EDGE 1 Tx slot	27.16	27.09	27.11	28.00	18.16	18.09	18.11	19.00
EDGE 2 Tx slots	23.94	23.91	24.19	25.00	17.94	17.91	18.19	19.00
EDGE 3 Tx slots	22.07	22.02	22.31	23.20	17.81	17.76	18.05	18.84
EDGE 4 Tx slots	20.58	20.56	20.67	22.00	17.58	17.56	17.67	19.00

GSM850_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.6	(dBm)	824.2	836.4	848.6	(dBm)
GSM 1 Tx slot	32.38	32.30	32.22	33.50	23.38	23.30	23.22	24.50
GPRS 1 Tx slot	32.32	32.35	32.20	33.50	23.32	23.35	23.20	24.50
GPRS 2 Tx slots	28.76	28.92	28.84	30.50	22.76	22.92	22.84	24.50
GPRS 3 Tx slots	26.78	27.00	26.89	28.70	22.52	22.74	22.63	24.44
GPRS 4 Tx slots	25.61	25.76	25.66	27.50	22.61	22.76	22.66	24.50
EDGE 1 Tx slot	26.29	26.00	26.02	27.50	17.29	17.00	17.02	18.50
EDGE 2 Tx slots	22.97	23.05	23.00	24.50	16.97	17.05	17.00	18.50
EDGE 3 Tx slots	21.33	21.19	21.11	22.70	17.07	16.93	16.85	18.44
EDGE 4 Tx slots	19.91	19.79	19.84	21.50	16.91	16.79	16.84	18.50

GSM1900_Ant 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM 1 Tx slot	30.50	30.49	30.31	31.00	21.50	21.49	21.31	22.00
GPRS 1 Tx slot	30.40	30.42	30.38	31.00	21.40	21.42	21.38	22.00
GPRS 2 Tx slots	27.08	27.18	27.03	28.00	21.08	21.18	21.03	22.00
GPRS 3 Tx slots	25.03	25.15	25.08	26.20	20.77	20.89	20.82	21.84
GPRS 4 Tx slots	23.52	23.66	23.53	25.00	20.52	20.66	20.53	22.00
EDGE 1 Tx slot	26.09	26.24	26.01	26.50	17.09	17.24	17.01	17.50
EDGE 2 Tx slots	22.82	23.11	22.87	23.50	16.82	17.11	16.87	17.50
EDGE 3 Tx slots	20.83	21.20	20.94	21.70	16.57	16.94	16.68	17.44
EDGE 4 Tx slots	19.19	19.38	19.16	20.50	16.19	16.38	16.16	17.50

GSM1900_Ant 5	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810	Limit	512	661	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM 1 Tx slot	29.25	29.18	29.19	31.00	20.25	20.18	20.19	22.00
GPRS 1 Tx slot	29.35	29.39	29.20	31.00	20.35	20.39	20.20	22.00
GPRS 2 Tx slots	26.23	26.36	26.22	28.00	20.23	20.36	20.22	22.00
GPRS 3 Tx slots	24.29	24.36	24.28	26.20	20.03	20.10	20.02	21.84
GPRS 4 Tx slots	23.18	23.27	23.20	25.00	20.18	20.27	20.20	22.00
EDGE 1 Tx slot	25.24	25.09	25.01	26.50	16.24	16.09	16.01	17.50
EDGE 2 Tx slots	22.25	21.99	22.22	23.50	16.25	15.99	16.22	17.50
EDGE 3 Tx slots	20.07	20.12	20.07	21.70	15.81	15.86	15.81	17.44
EDGE 4 Tx slots	18.51	18.59	18.55	20.50	15.51	15.59	15.55	17.50

Band	WCDMA II_Ant 2			Tune-up Limit (dBm)	WCDMA II_Ant 5			Tune-up Limit (dBm)	
	9262	9400	9538		9262	9400	9538		
TX Channel	9262	9400	9538	Limit	9262	9400	9538	Limit	
Rx Channel	9662	9800	9938	(dBm)	9662	9800	9938	(dBm)	
Frequency (MHz)	1852.4	1880	1907.6	(dBm)	1852.4	1880	1907.6	(dBm)	
3GPP Rel 99	AMR 12.2Kbps	24.08	24.09	24.07	25.00	23.37	23.36	23.33	25.00
3GPP Rel 99	RMC 12.2Kbps	24.07	24.11	24.08	25.00	23.41	23.42	23.31	25.00
3GPP Rel 6	HSDPA Subtest-1	23.04	23.15	23.09	24.00	22.09	22.20	22.22	24.00
3GPP Rel 6	HSDPA Subtest-2	23.03	23.05	23.00	24.00	22.07	22.08	22.08	24.00
3GPP Rel 6	HSDPA Subtest-3	22.65	22.76	22.83	23.50	21.83	21.84	21.71	23.50
3GPP Rel 6	HSDPA Subtest-4	22.59	22.70	22.66	23.50	21.71	21.88	21.81	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.00	23.05	23.04	24.00	22.01	22.09	22.10	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.99	23.03	22.97	24.00	22.05	22.03	22.08	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.59	22.62	22.58	23.50	21.78	21.85	21.68	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.57	22.55	22.55	23.50	21.81	21.82	21.70	23.50
3GPP Rel 6	HSUPA Subtest-1	19.90	19.91	19.92	24.00	19.35	19.46	19.39	24.00
3GPP Rel 6	HSUPA Subtest-2	19.85	19.89	19.85	22.00	19.38	19.39	19.31	22.00
3GPP Rel 6	HSUPA Subtest-3	20.82	20.95	20.88	23.00	20.49	20.51	20.56	23.00
3GPP Rel 6	HSUPA Subtest-4	19.39	19.44	19.41	22.00	18.89	19.03	18.91	22.00
3GPP Rel 6	HSUPA Subtest-5	20.90	20.90	20.90	24.00	20.36	20.45	20.38	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.83	19.91	19.76	21.50	19.27	19.38	19.40	21.50

Band	WCDMA IV_Ant 2			Tune-up Limit (dBm)	WCDMA IV_Ant 5			Tune-up Limit (dBm)	
	1312	1413	1513		1312	1413	1513		
TX Channel	1312	1413	1513	Limit	1312	1413	1513	Limit	
Rx Channel	1637	1638	1738	(dBm)	1637	1638	1738	(dBm)	
Frequency (MHz)	1722.4	1722.6	1722.8	(dBm)	1722.4	1722.6	1722.8	(dBm)	
3GPP Rel 99	AMR 12.2Kbps	23.97	24.10	24.08	25.00	23.42	23.55	23.46	25.00
3GPP Rel 99	RMC 12.2Kbps	23.99	24.11	24.06	25.00	23.46	23.56	23.48	25.00
3GPP Rel 6	HSDPA Subtest-1	23.06	23.23	23.20	24.00	22.35	22.55	22.51	24.00
3GPP Rel 6	HSDPA Subtest-2	23.02	23.16	23.12	24.00	22.19	22.35	22.41	24.00
3GPP Rel 6	HSDPA Subtest-3	22.55	22.69	22.67	23.50	21.83	21.85	21.80	23.50
3GPP Rel 6	HSDPA Subtest-4	22.54	22.69	22.59	23.50	21.82	22.01	21.83	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.04	23.02	22.98	24.00	22.28	22.30	22.32	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.98	23.00	23.01	24.00	22.30	22.33	22.28	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.50	22.51	22.49	23.50	21.76	21.80	21.79	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.55	22.48	22.50	23.50	21.81	21.77	21.75	23.50
3GPP Rel 6	HSUPA Subtest-1	20.80	20.92	20.88	24.00	20.47	20.52	20.55	24.00
3GPP Rel 6	HSUPA Subtest-2	20.77	20.90	20.87	22.00	20.34	20.45	20.42	22.00
3GPP Rel 6	HSUPA Subtest-3	21.81	21.98	21.91	23.00	21.40	21.63	21.59	23.00
3GPP Rel 6	HSUPA Subtest-4	20.35	20.48	20.37	22.00	19.99	20.20	20.05	22.00
3GPP Rel 6	HSUPA Subtest-5	21.80	21.90	21.90	24.00	21.51	21.49	21.54	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.06	20.23	20.15	21.50	19.78	19.82	19.80	21.50

Band	WCDMA V_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 1			Tune-up Limit (dBm)	
	4132	4182	4233		4132	4182	4233		
TX Channel	4132	4182	4233	Limit	4132	4182	4233	Limit	
Rx Channel	4357	4407	4458	(dBm)	4357	4407	4458	(dBm)	
Frequency (MHz)	836.4	836.4	846.6	(dBm)	836.4	836.4	846.6	(dBm)	
3GPP Rel 99	AMR 12.2Kbps	23.74	23.76	23.84	25.00	23.64	23.60	23.58	25.00
3GPP Rel 99	RMC 12.2Kbps	23.76	23.78	23.67	25.00	23.65	23.67	23.60	25.00
3GPP Rel 6	HSDPA Subtest-1	22.72	22.82	22.80	24.00	22.64	22.70	22.61	24.50
3GPP Rel 6	HSDPA Subtest-2	22.78	22.75	22.86	24.00	22.72	22.65	22.54	24.50
3GPP Rel 6	HSDPA Subtest-3	22.24	22.38	22.32	23.50	22.19	22.15	22.16	24.00
3GPP Rel 6	HSDPA Subtest-4	22.27	22.35	22.31	23.50	22.06	22.17	22.08	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.74	22.76	22.78	24.00	22.62	22.59	22.62	24.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.70	22.73	22.71	24.00	22.58	22.55	22.63	24.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.21	22.28	22.19	23.50	22.08	22.02	22.03	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.23	22.22	22.20	23.50	22.01	22.03	22.00	24.00
3GPP Rel 6	HSUPA Subtest-1	19.55	19.72	19.68	24.00	19.58	19.63	19.54	24.50
3GPP Rel 6	HSUPA Subtest-2	17.88	17.76	17.71	22.00	17.56	17.66	17.50	22.50
3GPP Rel 6	HSUPA Subtest-3	18.69	18.85	18.77	23.00	18.58	18.67	18.62	23.50
3GPP Rel 6	HSUPA Subtest-4	19.13	19.22	19.16	22.00				



Band 2_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low (dBm)	Power High (dBm)	Power Max (dBm)	Time-up (min)	APRS (dB)	APRS (dB)	
Channel										
Frequency (MHz)										
20	QPSK	5	0	21.61	21.71	21.64				
20	QPSK	1	49	21.68	21.82	21.58	24.5	0		
20	QPSK	5	0	21.71	21.81	21.74				
20	QPSK	5	0	21.73	21.85	21.80				
20	QPSK	5	0	21.80	21.92	21.87				
20	QPSK	5	0	21.85	21.97	21.92				
20	QPSK	5	0	21.90	22.02	21.96				
20	QPSK	5	0	21.95	22.07	22.02				
20	QPSK	5	0	22.00	22.12	22.06				
20	QPSK	5	0	22.05	22.17	22.12				
20	QPSK	5	0	22.10	22.22	22.17				
20	QPSK	5	0	22.15	22.27	22.22				
20	QPSK	5	0	22.20	22.32	22.27				
20	QPSK	5	0	22.25	22.37	22.32				
20	QPSK	5	0	22.30	22.42	22.37				
20	QPSK	5	0	22.35	22.47	22.42				
20	QPSK	5	0	22.40	22.52	22.47				
20	QPSK	5	0	22.45	22.57	22.52				
20	QPSK	5	0	22.50	22.62	22.57				
20	QPSK	5	0	22.55	22.67	22.62				
20	QPSK	5	0	22.60	22.72	22.67				
20	QPSK	5	0	22.65	22.77	22.72				
20	QPSK	5	0	22.70	22.82	22.77				
20	QPSK	5	0	22.75	22.87	22.82				
20	QPSK	5	0	22.80	22.92	22.87				
20	QPSK	5	0	22.85	22.97	22.92				
20	QPSK	5	0	22.90	23.02	22.97				
20	QPSK	5	0	22.95	23.07	23.02				
20	QPSK	5	0	23.00	23.12	23.07				
20	QPSK	5	0	23.05	23.17	23.12				
20	QPSK	5	0	23.10	23.22	23.17				
20	QPSK	5	0	23.15	23.27	23.22				
20	QPSK	5	0	23.20	23.32	23.27				
20	QPSK	5	0	23.25	23.37	23.32				
20	QPSK	5	0	23.30	23.42	23.37				
20	QPSK	5	0	23.35	23.47	23.42				
20	QPSK	5	0	23.40	23.52	23.47				
20	QPSK	5	0	23.45	23.57	23.52				
20	QPSK	5	0	23.50	23.62	23.57				
20	QPSK	5	0	23.55	23.67	23.62				
20	QPSK	5	0	23.60	23.72	23.67				
20	QPSK	5	0	23.65	23.77	23.72				
20	QPSK	5	0	23.70	23.82	23.77				
20	QPSK	5	0	23.75	23.87	23.82				
20	QPSK	5	0	23.80	23.92	23.87				
20	QPSK	5	0	23.85	23.97	23.92				
20	QPSK	5	0	23.90	24.02	23.97				
20	QPSK	5	0	23.95	24.07	24.02				
20	QPSK	5	0	24.00	24.12	24.07				
20	QPSK	5	0	24.05	24.17	24.12				
20	QPSK	5	0	24.10	24.22	24.17				
20	QPSK	5	0	24.15	24.27	24.22				
20	QPSK	5	0	24.20	24.32	24.27				
20	QPSK	5	0	24.25	24.37	24.32				
20	QPSK	5	0	24.30	24.42	24.37				
20	QPSK	5	0	24.35	24.47	24.42				
20	QPSK	5	0	24.40	24.52	24.47				
20	QPSK	5	0	24.45	24.57	24.52				
20	QPSK	5	0	24.50	24.62	24.57				
20	QPSK	5	0	24.55	24.67	24.62				
20	QPSK	5	0	24.60	24.72	24.67				
20	QPSK	5	0	24.65	24.77	24.72				
20	QPSK	5	0	24.70	24.82	24.77				
20	QPSK	5	0	24.75	24.87	24.82				
20	QPSK	5	0	24.80	24.92	24.87				
20	QPSK	5	0	24.85	24.97	24.92				
20	QPSK	5	0	24.90	25.02	24.97				
20	QPSK	5	0	24.95	25.07	25.02				
20	QPSK	5	0	25.00	25.12	25.07				
20	QPSK	5	0	25.05	25.17	25.12				
20	QPSK	5	0	25.10	25.22	25.17				
20	QPSK	5	0	25.15	25.27	25.22				
20	QPSK	5	0	25.20	25.32	25.27				
20	QPSK	5	0	25.25	25.37	25.32				
20	QPSK	5	0	25.30	25.42	25.37				
20	QPSK	5	0	25.35	25.47	25.42				
20	QPSK	5	0	25.40	25.52	25.47				
20	QPSK	5	0	25.45	25.57	25.52				
20	QPSK	5	0	25.50	25.62	25.57				
20	QPSK	5	0	25.55	25.67	25.62				
20	QPSK	5	0	25.60	25.72	25.67				
20	QPSK	5	0	25.65	25.77	25.72				
20	QPSK	5	0	25.70	25.82	25.77				
20	QPSK	5	0	25.75	25.87	25.82				
20	QPSK	5	0	25.80	25.92	25.87				
20	QPSK	5	0	25.85	25.97	25.92				
20	QPSK	5	0	25.90	26.02	25.97				
20	QPSK	5	0	25.95	26.07	26.02				
20	QPSK	5	0	26.00	26.12	26.07				
20	QPSK	5	0	26.05	26.17	26.12				
20	QPSK	5	0	26.10	26.22	26.17				
20	QPSK	5	0	26.15	26.27	26.22				
20	QPSK	5	0	26.20	26.32	26.27				
20	QPSK	5	0	26.25	26.37	26.32				
20	QPSK	5	0	26.30	26.42	26.37				
20	QPSK	5	0	26.35	26.47	26.42				
20	QPSK	5	0	26.40	26.52	26.47				
20	QPSK	5	0	26.45	26.57	26.52				
20	QPSK	5	0	26.50	26.62	26.57				
20	QPSK	5	0	26.55	26.67	26.62				
20	QPSK	5	0	26.60	26.72	26.67				
20	QPSK	5	0	26.65	26.77	26.72				
20	QPSK	5	0	26.70	26.82	26.77				
20	QPSK	5	0	26.75	26.87	26.82				
20	QPSK	5	0	26.80	26.92	26.87				
20	QPSK	5	0	26.85	26.97	26.92				
20	QPSK	5	0	26.90	27.02	26.97				
20	QPSK	5	0	26.95	27.07	27.02				
20	QPSK	5	0	27.00	27.12	27.07				
20	QPSK	5	0	27.05	27.17	27.12				
20	QPSK	5	0	27.10	27.22	27.17				
20	QPSK	5	0	27.15	27.27	27.22				
20	QPSK	5	0	27.20	27.32	27.27				
20	QPSK	5	0	27.25	27.37	27.32				
20	QPSK	5	0	27.30	27.42	27.37				
20	QPSK	5	0	27.35	27.47	27.42				
20	QPSK	5	0	27.40	27.52	27.47				
20	QPSK	5	0	27.45	27.57	27.52				
20	QPSK	5	0	27.50	27.62	27.57				
20	QPSK	5	0	27.55	27.67	27.62				
20	QPSK	5	0	27.60	27.72	27.67				
20	QPSK	5	0	27.65	27.77	27.72				
20	QPSK	5	0	27.70	27.82	27.77				
20	QPSK	5	0	27.75	27.87	27.82				
20	QPSK	5	0	27.80	27.92	27.87				
20	QPSK	5	0	27.85	27.97	27.92				
20	QPSK	5	0	27.90	28.02	27.97				
20	QPSK	5	0	27.95	28.07	28.02				
20	QPSK	5	0	28.00	28.12	28.07				
20	QPSK	5	0	28.05	28.17	28.12				
20	QPSK	5	0	28.10	28.22	28.17				
20	QPSK	5	0	28.15	28.27	28.22				
20	QPSK	5	0	28.20	28.32	28.27				
20	QPSK									







Band 12_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Frame Low 23960	Frame High 23965	Frame High 24130	Turn-up (dB)	APR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	5	0	24.02	24.03	24.11				
10	QPSK	1	25	24.97	24.14	25.00	25.7	0		
10	QPSK	5	40	25.00	25.13	25.00				
10	QPSK	25	0	23.96	24.12	24.07				
10	QPSK	25	12	24.03	24.10	24.04	24.7	1		
10	QPSK	25	40	24.02	24.06	24.04				
10	QPSK	5	0	24.02	24.06	24.04				
10	HQAM	1	25	24.06	24.42	24.15	24.7	1		
10	HQAM	1	40	24.12	24.55	24.18				
10	HQAM	25	0	23.92	24.02	24.00	23.7	2		
10	HQAM	25	12	23.93	23.92	23.14				
10	HQAM	25	40	23.92	23.93	23.00				
10	HQAM	50	0	23.86	23.54	23.07				
10	HQAM	1	0	23.10	23.15	23.23				
10	HQAM	1	40	23.27	23.37	23.40	23.7	2		
10	HQAM	25	0	23.09	23.06	23.34				
10	HQAM	25	12	23.09	23.06	23.14	22.7	3		
10	HQAM	25	40	23.07	23.07	23.11				
10	HQAM	50	0	23.02	23.04	23.04				
10	HQAM	1	0	23.09	23.20	23.20				
10	HQAM	1	40	23.11	23.19	23.20	20.7	5		
10	HQAM	25	0	23.01	23.00	23.13				
10	HQAM	25	12	23.01	23.04	23.14				
10	HQAM	25	40	23.08	23.09	23.07	20.7	5		
10	HQAM	50	0	23.08	23.08	23.07				
Channel										
Frequency (MHz)										
5	QPSK	5	0	24.02	24.03	24.06				
5	QPSK	1	12	24.06	24.14	24.05	25.7	0		
5	QPSK	5	25	24.06	24.06	24.05				
5	QPSK	12	0	23.94	24.06	23.99				
5	QPSK	12	7	23.93	24.01	24.03	24.7	1		
5	QPSK	12	25	23.90	23.99	23.99				
5	QPSK	25	0	23.99	23.94	24.00				
5	QPSK	25	12	23.99	23.94	24.00	24.7	1		
5	HQAM	1	10	24.43	24.24	24.18	24.7	1		
5	HQAM	1	24	24.49	24.28	24.23				
5	HQAM	12	0	24.00	24.07	24.00				
5	HQAM	12	7	23.91	23.95	23.94	23.7	2		
5	HQAM	12	25	23.98	23.95	23.95				
5	HQAM	25	0	23.96	23.96	23.17				
5	HQAM	1	0	23.71	23.62	23.77	23.7	2		
5	HQAM	1	24	23.75	23.67	23.61				
5	HQAM	12	0	23.69	23.60	23.62				
5	HQAM	12	7	23.69	23.60	23.62	22.7	3		
5	HQAM	12	25	23.67	23.68	23.67				
5	HQAM	25	0	23.68	23.68	23.07				
5	HQAM	25	12	23.68	23.68	23.07	20.7	5		
5	HQAM	25	40	23.61	23.62	23.07				
5	HQAM	50	0	23.56	23.56	23.07				
Channel										
Frequency (MHz)										
3	QPSK	3	0	24.02	24.03	24.03				
3	QPSK	1	14	24.02	24.10	24.07	25.7	0		
3	QPSK	3	25	24.04	24.06	24.06				
3	QPSK	8	0	23.92	23.97	23.99				
3	QPSK	8	7	23.91	23.95	23.98	24.7	1		
3	HQAM	1	14	24.06	24.03	24.07	24.7	1		
3	HQAM	1	24	24.10	24.00	24.03				
3	HQAM	12	0	24.00	24.00	24.00				
3	HQAM	12	7	23.99	23.94	24.00	23.7	2		
3	HQAM	12	25	23.99	23.94	24.00				
3	HQAM	25	0	23.99	23.94	24.00	23.7	2		
3	HQAM	25	12	23.99	23.94	24.00				
3	HQAM	25	40	23.99	23.94	24.00	22.7	3		
3	HQAM	50	0	23.97	23.97	23.99				
3	HQAM	1	0	23.05	23.11	23.10				
3	HQAM	1	14	23.06	23.12	23.14	23.7	2		
3	HQAM	12	0	23.04	23.10	23.10				
3	HQAM	12	7	23.07	23.17	23.17	23.7	2		
3	HQAM	12	25	23.07	23.22	23.04				
3	HQAM	25	0	23.05	23.05	23.05				
3	HQAM	25	12	23.06	23.06	23.07	22.7	3		
3	HQAM	25	40	23.06	23.06	23.07				
3	HQAM	50	0	23.01	23.03	23.03				
3	HQAM	50	12	23.01	23.03	23.03	20.7	5		
3	HQAM	50	25	23.01	23.03	23.03				
3	HQAM	50	40	23.01	23.03	23.03	20.7	5		
3	HQAM	50	7	23.02	23.03	23.04				
3	HQAM	50	14	23.02	23.03	23.04				
3	HQAM	50	21	23.02	23.03	23.04				
3	HQAM	50	28	23.02	23.03	23.04				
3	HQAM	50	35	23.02	23.03	23.04				
3	HQAM	50	42	23.02	23.03	23.04				
3	HQAM	50	49	23.02	23.03	23.04				
3	HQAM	50	56	23.02	23.03	23.04				
3	HQAM	50	63	23.02	23.03	23.04				
3	HQAM	50	70	23.02	23.03	23.04				
3	HQAM	50	77	23.02	23.03	23.04				
3	HQAM	50	84	23.02	23.03	23.04				
3	HQAM	50	91	23.02	23.03	23.04				
3	HQAM	50	98	23.02	23.03	23.04				
3	HQAM	50	105	23.02	23.03	23.04				
3	HQAM	50	112	23.02	23.03	23.04				
3	HQAM	50	119	23.02	23.03	23.04				
3	HQAM	50	126	23.02	23.03	23.04				
3	HQAM	50	133	23.02	23.03	23.04				
3	HQAM	50	140	23.02	23.03	23.04				
3	HQAM	50	147	23.02	23.03	23.04				
3	HQAM	50	154	23.02	23.03	23.04				
3	HQAM	50	161	23.02	23.03	23.04				
3	HQAM	50	168	23.02	23.03	23.04				
3	HQAM	50	175	23.02	23.03	23.04				
3	HQAM	50	182	23.02	23.03	23.04				
3	HQAM	50	189	23.02	23.03	23.04				
3	HQAM	50	196	23.02	23.03	23.04				
3	HQAM	50	203	23.02	23.03	23.04				
3	HQAM	50	210	23.02	23.03	23.04				
3	HQAM	50	217	23.02	23.03	23.04				
3	HQAM	50	224	23.02	23.03	23.04				
3	HQAM	50	231	23.02	23.03	23.04				
3	HQAM	50	238	23.02	23.03	23.04				
3	HQAM	50	245	23.02	23.03	23.04				
3	HQAM	50	252	23.02	23.03	23.04				
3	HQAM	50	259	23.02	23.03	23.04				
3	HQAM	50	266	23.02	23.03	23.04				
3	HQAM	50	273	23.02	23.03	23.04				
3	HQAM	50	280	23.02	23.03	23.04				
3	HQAM	50	287	23.02	23.03	23.04				
3	HQAM	50	294	23.02	23.03	23.04				
3	HQAM	50	301	23.02	23.03	23.04				
3	HQAM	50	308	23.02	23.03	23.04				
3	HQAM	50	315	23.02	23.03	23.04				
3	HQAM	50	322	23.02	23.03	23.04				
3	HQAM	50	329	23.02	23.03	23.04				
3	HQAM	50	336	23.02	23.03	23.04				
3	HQAM	50	343	23.02	23.03	23.04				
3	HQAM	50	350	23.02	23.03	23.04				
3	HQAM	50	357	23.02	23.03	23.04				
3	HQAM	50	364	23.02	23.03	23.04				
3	HQAM	50	371	23.02	23.03	23.04				
3	HQAM	50	378	23.02	23.03	23.04				
3	HQAM	50	385	23.02	23.03	23.04				
3	HQAM	50	392	23.02	23.03	23.04				



Band 26_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Frame Low	Frame Mid	Frame High	Time-up (min)	MPR (dB)		
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.73	24.73	24.73				
14	QPSK	1	37	24.73	24.73	24.73	25.7	0		
14	QPSK	1	74	24.73	24.73	24.73				
14	QPSK	36	0	23.81	23.81	23.78				
14	QPSK	36	20	23.77	23.80	23.79	24.7	1		
14	QPSK	36	40	23.72	23.83	23.81				
14	16QAM	1	0	24.02	24.02	24.02				
14	16QAM	1	37	24.02	24.23	24.23	24.7	1		
14	16QAM	1	74	24.11	24.19	24.20				
14	16QAM	36	0	22.74	22.74	22.74				
14	16QAM	36	20	22.79	22.82	22.77	23.7	2		
14	16QAM	36	40	22.77	22.90	22.71				
14	16QAM	75	0	22.78	22.84	22.81				
14	8QAM	1	0	22.77	22.90	22.79				
14	8QAM	1	37	22.80	22.82	22.80	23.7	2		
14	8QAM	1	74	22.77	22.79	22.78				
14	8QAM	36	0	21.80	21.79	21.79				
14	8QAM	36	20	21.84	21.78	21.83	22.7	3		
14	8QAM	36	40	21.79	21.77	21.76				
14	8QAM	75	0	21.82	21.83	21.82				
14	25QAM	1	0	19.97	19.99	19.98				
14	25QAM	1	37	19.97	19.95	19.95	20.7	5		
14	25QAM	1	74	19.98	19.98	19.98				
14	25QAM	36	0	19.98	19.97	19.94				
14	25QAM	36	20	19.97	19.95	19.95	20.7	5		
14	25QAM	36	40	19.92	19.88	19.78				
14	25QAM	75	0	19.92	19.93	19.92				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.71	24.74	24.69				
14	QPSK	1	37	24.78	24.82	24.71	25.7	0		
14	QPSK	1	74	24.84	24.78	24.78				
14	QPSK	36	0	23.82	23.79	23.83				
14	QPSK	36	20	23.79	23.83	23.80	24.7	1		
14	QPSK	36	40	23.82	23.80	23.81				
14	16QAM	1	0	24.28	24.28	24.28				
14	16QAM	1	37	24.28	24.27	24.28	24.7	1		
14	16QAM	1	74	24.28	24.28	24.28				
14	16QAM	36	0	22.81	22.80	22.80				
14	16QAM	36	20	22.82	22.80	22.80	23.7	2		
14	16QAM	36	40	22.77	22.80	22.80				
14	16QAM	75	0	22.81	22.80	22.80				
14	8QAM	1	0	22.87	22.86	22.86				
14	8QAM	1	37	22.89	22.87	22.87	23.7	2		
14	8QAM	1	74	22.87	22.87	22.87				
14	8QAM	36	0	21.90	21.89	21.89				
14	8QAM	36	20	21.92	21.89	21.91	22.7	3		
14	8QAM	36	40	21.87	21.87	21.87				
14	8QAM	75	0	21.92	21.92	21.92				
14	25QAM	1	0	19.92	19.97	19.84				
14	25QAM	1	37	19.92	19.95	19.95	20.7	5		
14	25QAM	1	74	19.92	19.92	19.92				
14	25QAM	36	0	19.92	19.94	19.94				
14	25QAM	36	20	19.97	19.95	19.95	20.7	5		
14	25QAM	36	40	19.91	19.82	19.81				
14	25QAM	75	0	19.91	19.92	19.91				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.73	24.73	24.73				
14	QPSK	1	12	24.74	24.75	24.84	25.7	0		
14	QPSK	1	24	24.79	24.72	24.78				
14	QPSK	12	0	23.77	23.84	23.81				
14	QPSK	12	7	23.78	23.80	23.83	24.7	1		
14	QPSK	12	13	23.78	23.80	23.83				
14	QPSK	36	0	23.83	23.82	23.90				
14	16QAM	1	0	23.77	23.84	24.14	24.7	1		
14	16QAM	1	12	23.81	23.80	24.21				
14	16QAM	1	24	23.85	23.88	24.28				
14	16QAM	12	0	22.86	22.87	22.86				
14	16QAM	12	7	22.87	22.85	22.90	23.7	2		
14	16QAM	12	13	22.82	22.79	22.91				
14	16QAM	36	0	21.89	21.84	21.81				
14	16QAM	36	20	21.92	21.89	21.91	23.7	2		
14	16QAM	36	40	21.87	21.87	21.87				
14	16QAM	75	0	21.92	21.92	21.92				
14	8QAM	1	0	19.40	19.63	19.46				
14	8QAM	1	12	19.44	19.47	19.58	20.7	5		
14	8QAM	1	24	19.44	19.45	19.45				
14	8QAM	12	0	19.44	19.63	19.71				
14	8QAM	12	7	19.62	19.61	19.61	20.7	5		
14	8QAM	12	13	19.62	19.78	19.50				
14	8QAM	36	0	19.62	19.62	19.62				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.73	24.73	24.73				
14	QPSK	1	8	24.90	24.92	24.91	25.7	0		
14	QPSK	1	16	24.90	24.90	24.94				
14	QPSK	8	0	23.82	23.81	23.79				
14	QPSK	8	4	23.79	23.74	23.83	24.7	1		
14	QPSK	8	12	23.82	23.78	23.80				
14	QPSK	15	0	23.78	23.77	23.90				
14	16QAM	1	0	24.30	24.26	24.02	24.7	1		
14	16QAM	1	8	24.23	24.26	24.00				
14	16QAM	1	16	24.26	24.34	24.06				
14	16QAM	8	0	23.82	23.78	23.80				
14	16QAM	8	4	23.78	23.74	23.90	23.7	2		
14	16QAM	8	7	22.85	22.79	22.97				
14	16QAM	15	0	22.82	22.81	22.81	23.7	2		
14	8QAM	1	0	22.95	22.82	22.77				
14	8QAM	1	8	22.97	22.89	22.78	23.7	2		
14	8QAM	1	16	22.97	22.89	22.78				
14	8QAM	8	0	21.79	21.62	21.70				
14	8QAM	8	4	21.82	21.81	21.72	22.7	3		
14	8QAM	8	7	21.88	21.70	21.80				
14	8QAM	15	0	21.80	21.80	21.80				
14	25QAM	1	0	19.84	19.85	19.84				
14	25QAM	1	8	19.74	19.44	19.46	20.7	5		
14	25QAM	1	16	19.72	19.46	19.46				
14	25QAM	8	0	19.68	19.79	19.62				
14	25QAM	8	4	19.40	19.70	19.60	20.7	5		
14	25QAM	8	7	19.58	19.46	19.78				
14	25QAM	15	0	19.49	19.42	19.40				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.73	24.73	24.73				
14	QPSK	1	5	24.99	24.99	24.97	25.7	0		
14	QPSK	3	1	24.82	24.78	24.72				
14	QPSK	3	3	24.77	24.70	24.70	24.7	1		
14	QPSK	8	0	23.82	23.80	24.24				
14	16QAM	1	0	24.07	24.09	24.20				
14	16QAM	1	5	23.92	24.10	24.24	24.7	1		
14	16QAM	1	10	23.92	24.10	24.20				
14	16QAM	3	0	23.88	23.79	23.79				
14	16QAM	3	3	23.91	23.79	23.82	23.7	2		
14	16QAM	3	8	23.88	23.80	23.80				
14	16QAM	8	0	22.79	22.78	23.20				
14	16QAM	8	3	22.74	22.72	22.71	23.7	2		
14	16QAM	8	6	22.87	22.80	22.80				
14	16QAM	3	0	22.81	22.82	22.79				
14	16QAM	3	3	22.82	22.77	22.73	23.7	2		
14	16QAM	3	8	22.80	22.80	22.80				
14	16QAM	8	0	21.80	21.80	21.81	22.7	3		
14	16QAM	8	3	21.82	21.80	21.80				
14	25QAM	1	0	19.86	19.86	19.85				
14	25QAM	1	3	19.83	19.86	19.74	20.7	5		



Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)				37850	38000	38150				
20	QPSK	1	0	22.81	22.54	22.46				
20	QPSK	1	49	22.83	22.52	22.45			24	0
20	QPSK	1	99	22.80	22.56	22.49				
20	QPSK	50	0	21.64	21.31	21.52				
20	QPSK	50	24	21.78	21.37	21.28			23	1
20	QPSK	50	60	21.54	21.25	21.26				
20	QPSK	100	0	21.85	21.59	21.28				
20	16QAM	1	0	21.41	21.37	21.26				
20	16QAM	1	49	21.62	21.27	21.33			23	1
20	16QAM	1	99	21.54	21.25	21.30				
20	16QAM	50	0	20.81	20.23	20.30				
20	16QAM	50	24	20.59	20.25	20.31			22	2
20	16QAM	50	60	20.52	20.29	20.28				
20	16QAM	100	0	20.56	20.24	20.31				
20	64QAM	1	0	20.32	20.03	20.07			22	2
20	64QAM	1	99	20.38	20.01	20.02				
20	64QAM	50	0	19.59	19.31	19.34				
20	64QAM	50	24	19.61	19.26	19.35			21	3
20	64QAM	50	60	19.58	19.25	19.28				
20	256QAM	1	0	19.82	19.29	19.29				
20	256QAM	1	49	17.24	17.34	17.50				
20	256QAM	1	99	17.27	17.24	17.31			19	5
20	256QAM	50	0	17.35	17.09	17.33				
20	256QAM	50	24	17.14	17.25	17.30			19	5
20	256QAM	50	60	17.22	17.20	17.22				
20	256QAM	100	0	17.30	17.30	17.20				
Channel										
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)	MFR (dB)		
15	QPSK	1	0	22.77	22.38	22.36				
15	QPSK	1	37	22.78	22.37	22.35			24	0
15	QPSK	1	74	22.70	22.39	22.38				
15	QPSK	36	0	21.70	21.23	21.29				
15	QPSK	36	20	21.69	21.25	21.20			23	1
15	QPSK	36	39	21.68	21.24	21.24				
15	QPSK	75	0	21.72	21.27	21.23				
15	QPSK	1	0	21.72	21.33	21.29				
15	16QAM	1	37	21.79	21.35	21.31			23	1
15	16QAM	1	74	21.69	21.23	21.24				
15	16QAM	36	0	20.71	20.23	20.27				
15	16QAM	36	20	20.53	20.11	20.24			22	2
15	16QAM	36	39	20.60	20.17	20.25				
15	16QAM	75	0	20.69	20.28	20.30				
15	64QAM	1	0	20.11	19.29	19.24				
15	64QAM	1	37	20.52	20.01	20.02			22	2
15	64QAM	1	74	20.52	20.08	20.05				
15	64QAM	36	0	19.75	19.35	19.27				
15	64QAM	36	20	19.70	19.27	19.31			21	3
15	64QAM	36	39	19.73	19.34	19.38				
15	256QAM	1	0	17.23	17.34	17.20				
15	256QAM	1	37	17.17	17.25	17.32			19	5
15	256QAM	1	74	17.19	17.10	17.15				
15	256QAM	36	0	17.11	17.10	17.15				
15	256QAM	36	20	17.11	17.32	17.34			19	5
15	256QAM	36	39	17.09	17.20	17.31				
15	256QAM	75	0	17.34	17.35	17.22				
Channel										
Frequency (MHz)				37850	38000	38200	Tune-up limit (dBm)	MFR (dB)		
10	QPSK	1	0	22.81	22.59	22.44				
10	QPSK	1	25	22.81	22.51	22.29			24	0
10	QPSK	1	50	22.80	22.56	22.49				
10	QPSK	25	0	21.77	21.40	21.52				
10	QPSK	25	12	21.71	21.25	21.20			23	1
10	QPSK	25	24	21.74	21.18	21.18				
10	QPSK	50	0	21.78	21.24	21.21				
10	16QAM	1	0	21.73	21.44	21.38				
10	16QAM	1	25	21.78	21.44	21.38			23	1
10	16QAM	1	49	21.66	21.29	21.39				
10	16QAM	25	0	20.81	20.22	20.30				
10	16QAM	25	12	20.65	20.16	20.21			22	2
10	16QAM	25	24	20.62	20.25	20.16				
10	16QAM	50	0	20.73	20.22	20.30				
10	64QAM	1	0	20.32	20.01	20.03			22	2
10	64QAM	1	25	20.31	20.14	20.05				
10	64QAM	1	49	20.46	20.03	20.03				
10	64QAM	25	0	19.75	19.28	19.21			21	3
10	64QAM	25	12	19.62	19.28	19.38				
10	64QAM	25	24	19.71	19.15	19.30				
10	64QAM	50	0	19.75	19.26	19.27				
10	64QAM	50	12	17.23	17.34	17.20			19	5
10	256QAM	1	0	17.23	17.34	17.20				
10	256QAM	1	12	17.17	17.25	17.32			19	5
10	256QAM	1	24	17.19	17.10	17.15				
10	256QAM	25	0	17.11	17.32	17.34			19	5
10	256QAM	25	12	17.09	17.20	17.31				
10	256QAM	50	0	17.34	17.35	17.22				

Band 38_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)				37900	38000	38150				
20	QPSK	1	0	24.54	24.30	24.38			25.5	0
20	QPSK	1	49	24.55	24.38	24.36				
20	QPSK	1	99	24.51	24.33	24.31				
20	QPSK	50	0	23.57	23.32	23.39				
20	QPSK	50	24	23.61	23.25	23.38			24.5	1
20	QPSK	50	60	23.55	23.35	23.38				
20	QPSK	100	0	23.49	23.27	23.41				
20	16QAM	1	0	23.61	23.31	23.35				
20	16QAM	1	49	23.50	23.36	23.34			24.5	1
20	16QAM	1	99	23.56	23.38	23.35				
20	16QAM	50	0	22.91	22.39	22.38				
20	16QAM	50	24	22.59	22.33	22.39			23.5	2
20	16QAM	50	60	22.55	22.35	22.38				
20	16QAM	100	0	22.51	22.25	22.38				
20	64QAM	1	0	22.29	22.06	22.05			23.5	2
20	64QAM	1	99	22.28	22.00	22.11				
20	64QAM	50	0	21.90	21.31	21.38			22.5	3
20	64QAM	50	24	21.55	21.31	21.40				
20	64QAM	50	60	21.54	21.35	21.42				
20	256QAM	1	0	21.50	21.27	21.27				
20	256QAM	1	49	19.00	19.33	19.23				
20	256QAM	1	99	19.38	19.45	19.38				
20	256QAM	50	0	19.32	19.95	19.03				
20	256QAM	50	24	19.36	19.27	19.37			20.5	5
20	256QAM	50	60	19.35	19.11	19.34				
20	256QAM	100	0	19.32	19.40	19.42				
Channel										
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)	MFR (dB)		
15	QPSK	1	0	24.81	24.30	24.32			25.5	0
15	QPSK	1	37	24.86	24.33	24.39				
15	QPSK	1	74	24.60	24.34	24.34				
15	QPSK	36	0	23.62	23.24	23.28			24.5	1
15	QPSK	36	39	23.58	23.23	23.29				
15	QPSK	75	0	23.51	23.18	23.31				
15	16QAM	1	0	23.51	23.24	23.29				
15	16QAM	1	37	23.57	23.31	23.33			24.5	1
15	16QAM	1	74	23.47	23.28	23.38				
15	16QAM	36	0	22.44	22.18	22.30				
15	16QAM	36	20	22.45	22.04	22.09			23.5	2
15	16QAM	36	39	22.54	22.18	22.29				
15	16QAM	75	0	22.55	22.23	22.36				
15	64QAM	1	0	22.29	22.04	22.09			23.5	2
15	64QAM	1	37	22.30	22.06	22.12				
15	64QAM	1	74	22.34	22.15	22.13				
15	64QAM	36	0	21.51	21.25	21.33			22.5	3
15	64QAM	36	20	21.51	21.23	21.26				
15	64QAM	36	39	21.61	21.25	21.31				
15	64QAM	75	0	21.52	21.24	21.30				
15	256QAM	1	0	19.32	19.08	19.37			20.5	5
15	256QAM	1	37	19.44	19.27	19.37				
15	256QAM	1	74	19.25	19.38	19.30				
15	256QAM	36	0	19.15	19.21	19.32				
15	256QAM	36	20	19.15	19.21	19.32			20.5	5
15	256QAM	36	39	19.35	19.85	19.34				
15	256QAM	75	0	19.32	19.22	19.28				
Channel										
Frequency (MHz)				37900	38000	38200	Tune-up limit (dBm)	MFR (dB)		
10	QPSK	1	0	24.50	24.31	24.43				
10	QPSK	1	25	24.57	24.27	24.31			25.5	0
10	QPSK	1	50	24.51	24.33	24.31				
10	QPSK	25	0	23.50	23.29	23.34				
10	QPSK	25	12	2						



Band 38_Ant 5											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MFR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	24.03	23.84	23.91				25	0
20	QPSK	1	49	23.95	23.81	23.88					
20	QPSK	50	0	22.06	21.94	22.00					
20	QPSK	50	0	22.12	22.05	22.08					
20	QPSK	50	24	22.11	22.07	22.09				24	1
20	QPSK	50	24	22.14	22.10	22.12					
20	QPSK	100	0	23.08	22.83	22.95					
20	16QAM	1	0	23.24	23.02	23.13					
20	16QAM	1	49	23.27	23.12	23.21				24	1
20	16QAM	1	99	23.29	23.11	23.21					
20	16QAM	50	0	22.06	21.94	22.00					
20	16QAM	50	24	22.16	21.95	22.02				23	2
20	16QAM	100	0	22.13	21.95	22.04					
20	16QAM	100	0	22.13	21.95	22.04					
20	64QAM	1	0	22.08	21.93	22.01				23	2
20	64QAM	1	99	22.16	22.09	22.09					
20	64QAM	50	0	21.10	20.95	21.08				22	3
20	64QAM	50	24	21.14	20.99	21.08					
20	64QAM	50	50	21.18	20.97	21.12					
20	64QAM	100	0	21.07	20.92	21.00					
20	64QAM	100	0	18.66	18.58	18.62					
20	256QAM	1	49	18.57	18.47	18.42				20	5
20	256QAM	1	99	18.57	18.47	18.42					
20	256QAM	50	0	18.82	18.72	18.71					
20	256QAM	50	24	18.83	18.70	18.88				20	5
20	256QAM	50	50	18.84	18.74	18.85					
20	256QAM	100	0	18.73	18.63	18.65					
Channel											
Frequency (MHz)											
15	QPSK	1	0	24.10	23.91	24.00				25	0
15	QPSK	1	37	24.06	23.94	24.00					
15	QPSK	1	74	24.11	24.07	24.11					
15	QPSK	36	0	23.12	22.99	23.06					
15	QPSK	36	20	23.08	22.93	23.01				24	1
15	QPSK	36	39	23.13	22.94	23.08					
15	16QAM	1	0	23.24	23.07	23.20				24	1
15	16QAM	1	37	23.27	23.08	23.21					
15	16QAM	1	74	23.31	23.14	23.23					
15	16QAM	36	0	22.05	21.90	22.00					
15	16QAM	36	20	22.14	21.98	22.03				23	2
15	16QAM	36	39	22.13	21.93	22.07					
15	16QAM	75	0	22.09	21.92	22.06					
15	64QAM	1	37	22.15	21.97	22.09				23	2
15	64QAM	1	74	22.18	21.98	22.05					
15	64QAM	36	0	21.08	20.95	21.05				22	3
15	64QAM	36	20	21.13	20.92	21.09					
15	64QAM	75	0	21.06	20.94	21.11					
15	256QAM	1	0	18.75	18.71	18.75				20	5
15	256QAM	1	37	18.76	18.69	18.71					
15	256QAM	1	74	18.78	18.65	18.70					
15	256QAM	36	0	18.53	18.50	18.53				20	5
15	256QAM	36	20	18.53	18.50	18.53					
15	256QAM	75	0	18.53	18.50	18.53					
Channel											
Frequency (MHz)											
10	QPSK	1	0	24.10	23.83	24.00				24	0
10	QPSK	1	25	24.11	23.88	23.96					
10	QPSK	25	0	23.12	23.02	23.12					
10	QPSK	25	12	23.14	22.96	23.11				24	1
10	QPSK	25	12	23.10	22.95	23.10					
10	16QAM	1	0	23.07	22.86	23.11					
10	16QAM	1	24	23.11	22.91	23.01				24	1
10	16QAM	1	49	23.25	23.08	23.21					
10	16QAM	25	0	22.12	21.98	22.18				23	2
10	16QAM	25	12	22.21	21.99	22.14					
10	16QAM	25	26	22.20	21.96	22.14					
10	16QAM	50	0	22.13	21.95	22.16					
10	64QAM	1	0	22.12	21.94	22.09				23	2
10	64QAM	1	26	22.16	21.95	22.06					
10	64QAM	1	49	22.18	21.90	22.12					
10	64QAM	25	0	21.17	21.08	21.21				22	3
10	64QAM	25	12	21.22	21.00	21.18					
10	64QAM	25	26	21.23	20.99	21.17					
10	64QAM	50	0	21.14	20.94	21.10					
10	64QAM	50	12	18.73	18.63	18.74				20	5
10	256QAM	1	25	18.82	18.76	18.74					
10	256QAM	1	49	18.85	18.64	18.68				20	5
10	256QAM	25	0	18.77	18.66	18.63					
10	256QAM	25	12	18.89	18.70	18.85					
10	256QAM	25	26	18.88	18.72	18.81					
10	256QAM	50	0	18.73	18.61	18.69					
10	256QAM	50	12	18.81	18.61	18.69					
10	256QAM	50	26	18.83	18.62	18.69					

Band 41_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MFR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.04	23.24	23.38	23.24	23.09		24	0
20	QPSK	1	49	23.10	23.31	23.35	23.25	23.18			
20	QPSK	50	0	22.15	22.48	22.47	22.33	22.19			
20	QPSK	50	0	22.15	22.42	22.41	22.36	22.21			
20	QPSK	50	24	22.11	22.27	22.27	22.16	22.11		23	1
20	QPSK	50	24	22.14	22.25	22.23	22.13	22.11			
20	QPSK	100	0	22.12	22.38	22.37	22.25	22.13			
20	16QAM	1	0	22.11	22.36	22.36	22.23	22.12			
20	16QAM	1	49	22.12	22.42	22.39	22.28	22.14		23	1
20	16QAM	1	99	22.13	22.27	22.26	22.21	22.08			
20	16QAM	50	0	21.09	21.28	21.45	21.24	21.22			
20	16QAM	50	24	21.11	21.31	21.43	21.31	21.19		22	2
20	16QAM	100	0	21.15	21.23	21.23	21.17	21.08			
20	16QAM	100	0	21.15	21.25	21.25	21.27	21.15			
20	64QAM	1	0	20.92	20.96	21.18	20.96	20.85		22	2
20	64QAM	1	49	20.92	20.98	21.03	20.95	20.87			
20	64QAM	1	99	20.80	20.88	21.03	20.92	20.82			
20	64QAM	50	0	20.08	20.20	20.39	20.21	20.16		21	3
20	64QAM	50	24	20.08	20.25	20.38	20.25	20.14			
20	64QAM	50	50	20.13	20.29	20.33	20.23	20.13			
20	64QAM	100	0	20.08	20.24	20.31	20.18	20.17			
20	256QAM	1	0	17.80	17.69	17.84	17.72	17.65		19	5
20	256QAM	1	49	17.80	17.68	17.60	17.65	17.51			
20	256QAM	50	0	17.63	17.75	17.63	17.63	17.58			
20	256QAM	50	24	17.71	17.74	17.67	17.65	17.68		19	5
20	256QAM	100	0	17.82	17.71	17.62	17.65	17.74			
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.12	23.43	23.45	23.24	23.27		24	0
15	QPSK	1	37	23.14	23.26	23.35	23.17	23.08			
15	QPSK	1	74	23.11	23.23	23.42	23.22	23.06			
15	QPSK	36	0	22.16	22.16	22.38	22.33	22.25			
15	QPSK	36	20	22.14	22.24	22.35	22.19	22.24			
15	QPSK	36	39	22.05	22.18	22.38	22.27	22.07			
15	16QAM	1	0	22.10	22.31	22.43	22.25	22.12			
15	16QAM	1	37	22.18	22.34	22.42	22.28	22.21		23	1
15	16QAM	1	74	22.19	22.14	22.22	22.26	22.21			
15	16QAM	36	0	21.14	21.38	21.51	21.20	21.15			
15	16QAM	36	20	21.07	21.26	21.39	21.20	21.15		22	2
15	16QAM	36	39	21.18	21.22	21.28	21.37	21.20			
15	16QAM	75	0	21.18	21.25	21.40	21.26	21.10			
15	64QAM	1	37	20.96	20.87	21.09	20.89	20.82		21	3
15	64QAM	1	74	20.74	21.03	21.05	20.92	20.75			
15	64QAM	36	0	20.05	20.32	20.49	20.11	20.24			
15	64QAM	36	20	20.15	20.30	20.38	20.23	20.08			
15	64QAM	75	0	19.99	20.22	20.27	20.18	20.07		21	3
15	256QAM	1	0	17.82	17.71	17.63	17.70	17.88			
15	256QAM	1	37	17.68	17.60	17.69	17.61	17.71		19	5
15	256QAM	1	74	17.89	17.65	17.68	17.68	17.61			
15	256QAM	36	0	17.79	17.67	17.66	17.63	17.64			
15	256QAM	36	20	17.79	17.67	17.66	17.63	17.64			
15	256QAM	36	39	17.83	17.69	17.67	17.63	17.60			
15	256QAM	75	0	17.87	17.72	17.69	17.65	17.60			
Channel</											



Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Mid Ch / Freq	Power High Low Ch / Freq	Tune-up limit (dB)	MPE (dB)
Channel										
Frequency (MHz)										
39750 40165 40620 41055 41490										
30	QPSK	1	0	25.16	25.33	25.57	25.50	25.52	25.7	0
30	QPSK	1	49	25.21	25.41	25.58	25.45	25.55		
30	QPSK	1	99	25.22	25.55	25.65	25.47	25.61		
30	QPSK	50	0	24.18	24.68	24.67	24.67	24.61	24.7	1
30	QPSK	50	24	24.18	24.36	24.61	24.47	24.56		
30	QPSK	50	50	24.10	24.26	24.55	24.45	24.47		
30	QPSK	100	0	24.17	24.59	24.58	24.49	24.57		
30	IQAM	1	0	24.22	24.24	24.24	24.24	24.24		
30	IQAM	1	49	24.13	24.45	24.38	24.48	24.52		
30	IQAM	1	99	24.19	24.57	24.32	24.47	24.53		
30	IQAM	50	0	23.13	23.91	23.60	23.49	23.63		
30	IQAM	50	24	23.17	23.53	23.44	23.49	23.57		
30	IQAM	100	0	23.16	23.47	23.42	23.32	23.38		
30	IQAM	1	0	23.17	23.15	23.13	23.23	23.25		
30	IQAM	1	49	23.01	23.19	23.21	23.20	23.22		
30	IQAM	1	99	23.22	23.27	23.22	23.17	23.28		
30	IQAM	50	0	22.14	22.48	22.36	22.48	22.58		
30	IQAM	50	24	22.14	22.50	22.45	22.45	22.58		
30	IQAM	100	0	22.25	22.50	22.40	22.51	22.53		
30	IQAM	100	0	22.17	22.42	22.39	22.48	22.53		
30	SSBAM	1	0	20.29	20.13	20.24	20.38	20.18		
30	SSBAM	1	49	20.38	20.19	20.19	20.20	20.17		
30	SSBAM	1	99	20.18	20.24	20.27	20.29	20.33		
30	SSBAM	50	0	20.30	20.18	20.44	20.10	20.39		
30	SSBAM	50	24	20.33	20.29	20.31	20.22	20.33		
30	SSBAM	100	0	20.18	20.15	20.15	20.33	20.24		
30	SSBAM	100	0	20.13	20.19	20.24	20.39	20.34		
Channel										
Frequency (MHz)										
2503.5 2548.1 2593 2637.8 2682.5										
15	QPSK	1	0	25.12	25.10	25.23	25.48	25.52	25.70	0
15	QPSK	1	37	25.08	25.24	25.23	25.43	25.58		
15	QPSK	1	74	25.16	25.20	25.27	25.38	25.61		
15	QPSK	36	0	24.03	24.03	24.46	24.45	24.41		
15	QPSK	36	20	24.06	24.05	24.44	24.43	24.56		
15	QPSK	36	39	24.12	24.08	24.47	24.45	24.57		
15	IQAM	1	0	24.10	24.10	24.42	24.42	24.45		
15	IQAM	1	0	24.13	24.13	24.40	24.47	24.84		
15	IQAM	1	37	24.10	24.11	24.44	24.48	24.50		
15	IQAM	1	74	24.15	24.09	24.46	24.44	24.53		
15	IQAM	36	0	23.28	23.00	23.41	23.40	23.63		
15	IQAM	36	20	23.16	23.02	23.41	23.42	23.61		
15	IQAM	36	39	23.11	23.05	23.42	23.41	23.59		
15	IQAM	75	0	23.10	23.10	23.46	23.49	23.58		
15	IQAM	75	0	23.10	23.21	23.39	23.39	23.25		
15	IQAM	1	37	23.11	23.07	23.22	23.11	23.23		
15	IQAM	1	74	23.02	22.93	23.41	23.42	23.56		
15	IQAM	36	0	22.02	22.03	22.41	22.42	22.56		
15	IQAM	36	20	22.07	22.03	22.41	22.42	22.58		
15	IQAM	36	39	22.12	22.04	22.45	22.46	22.53		
15	IQAM	75	0	22.46	22.06	22.48	22.43	22.53		
15	SSBAM	1	0	20.15	20.14	20.36	20.24	20.27		
15	SSBAM	1	37	20.15	20.29	20.30	20.30	20.32		
15	SSBAM	1	74	20.28	20.43	20.31	20.37	20.41		
15	SSBAM	36	0	20.14	20.26	20.31	20.31	20.31		
15	SSBAM	36	20	20.38	20.14	20.15	20.30	20.34		
15	SSBAM	36	39	20.35	20.17	20.20	20.38	20.39		
15	SSBAM	75	0	20.39	20.28	20.34	20.34	20.37		
Channel										
Frequency (MHz)										
39750 40165 40620 41055 41490										
30	QPSK	1	0	25.10	25.51	25.47	25.48	25.57	25.70	0
30	QPSK	1	25	25.14	25.56	25.50	25.54	25.53		
30	QPSK	1	50	24.05	24.05	24.47	24.47	24.46		
30	QPSK	25	0	24.08	24.43	24.42	24.41	24.57		
30	QPSK	25	12	24.07	24.48	24.40	24.47	24.53		
30	QPSK	25	25	24.09	24.45	24.48	24.48	24.57		
30	QPSK	50	0	24.07	24.45	24.40	24.46	24.56		
30	IQAM	1	0	24.04	24.04	24.46	24.44	24.44		
30	IQAM	1	49	24.14	24.42	24.38	24.48	24.52		
30	IQAM	1	99	24.09	24.49	24.39	24.47	24.51		
30	IQAM	25	0	23.09	23.47	23.48	23.48	23.87		
30	IQAM	25	12	23.09	23.47	23.48	23.48	23.87		
30	IQAM	25	25	23.10	23.51	23.38	23.52	23.58		
30	IQAM	50	0	23.10	23.60	23.44	23.47	23.56		
30	IQAM	1	0	23.09	23.17	23.20	23.18	23.22		
30	IQAM	1	49	23.12	23.26	23.21	23.11	23.25		
30	IQAM	1	99	22.08	22.46	22.45	22.47	22.58		
30	IQAM	25	0	22.04	22.50	22.48	22.44	22.50		
30	IQAM	25	12	22.08	22.44	22.36	22.44	22.56		
30	IQAM	25	25	22.04	22.39	22.31	22.11	22.33		
30	SSBAM	1	0	20.27	20.41	20.37	20.12	20.14		
30	SSBAM	1	49	20.34	20.26	20.31	20.43	20.22		
30	SSBAM	1	99	20.34	20.23	20.35	20.13	20.35		
30	SSBAM	25	0	20.33	20.24	20.25	20.25	20.28		
30	SSBAM	25	25	20.29	20.10	20.29	20.44	20.40		
30	SSBAM	50	0	20.22	20.12	20.24	20.30	20.21		
Channel										
Frequency (MHz)										
2488.5 2543.8 2599 2643.9 2687.5										
5	QPSK	1	0	25.11	25.53	25.47	25.44	25.61	25.70	0
5	QPSK	1	12	25.17	25.62	25.43	25.52	25.60		
5	QPSK	1	24	25.13	25.54	25.46	25.45	25.67		
5	QPSK	12	0	24.13	24.42	24.46	24.46	24.47		
5	QPSK	12	7	24.04	24.45	24.38	24.44	24.56		
5	QPSK	12	13	24.04	24.49	24.38	24.47	24.54		
5	QPSK	25	0	24.00	24.41	24.30	24.36	24.52		
5	IQAM	1	0	24.07	24.45	24.38	24.42	24.46		
5	IQAM	1	12	24.08	24.47	24.41	24.45	24.50		
5	IQAM	1	24	24.05	24.50	24.38	24.40	24.51		
5	IQAM	12	0	23.10	23.41	23.38	23.40	23.43		
5	IQAM	12	7	23.04	23.41	23.36	23.39	23.50		
5	IQAM	12	13	23.28	23.41	23.38	23.42	23.48		
5	IQAM	25	0	23.05	23.45	23.41	23.48	23.56		
5	IQAM	1	0	23.16	23.16	23.38	23.18	23.30		
5	IQAM	1	12	23.11	23.24	23.24	23.17	23.27		
5	IQAM	1	24	23.15	23.29	23.21	23.14	23.26		
5	IQAM	12	0	22.04	22.47	22.37	22.40	22.50		
5	IQAM	12	7	22.05	22.49	22.39	22.47	22.53		
5	IQAM	12	13	22.04	22.44	22.34	22.39	22.47		
5	IQAM	25	0	22.06	22.49	22.42	22.60	22.60		
5	SSBAM	1	0	20.27	20.40	20.33	20.44	20.23		
5	SSBAM	1	12	20.37	20.31	20.38	20.21	20.32		
5	SSBAM	1	24	20.34	20.18	20.17	20.21	20.35		
5	SSBAM	12	0	20.21	20.28	20.38	20.24	20.45		
5	SSBAM	12	7	20.14	20.15	20.27	20.12	20.34		
5	SSBAM	12	13	20.28	20.45	20.34	20.45	20.23		
5	SSBAM	25	0	20.16	20.40	20.30	20.12	20.12		

Band 41_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Mid Ch / Freq	Power High Low Ch / Freq	Tune-up limit (dB)	MPE (dB)
Channel										
Frequency (MHz)										
39750 40165 40620 41055 41490										
30	QPSK	1	0	24.04	24.29	24.42	24.31	24.35	25	0
30	QPSK	1	49	24.08	24.30	24.49	24.30	24.35		
30	QPSK	1	99	24.08	24.38	24.57	24.31	24.48		
30	QPSK	50	0	23.09	23.45	23.44	23.39	23.38		
30	QPSK	50	24	23.09	23.32	23.35	23.15	23.35		
30	QPSK	50	50	23.05	23.32	23.31	23.41	23.25		
30	QPSK	100	0	23.05	23.36	23.35	23.21	23.11		
30	IQAM	1	0	23.07	23.20	23.12	23.40	23.42		
30	IQAM	1	49	23.00	23.30	23.14	23.34	23.40		
30	IQAM	1	99	23.09	23.40	23.19	23.34	23.45		
30	IQAM	50	0	22.09	22.32	22.19	22.42	22.37		
30	IQAM	50	24	22.10	22.30	22.17	22.39	22.38		
30	IQAM	100	0	22.07	22.32	22.15	22.36	22.39		
30	IQAM	1	0	21.77	21.99	21.83	22.07	22.12		
30	IQAM	1	49	21.78	22.12	21.92	22.07	22.16		
30	IQAM	1	99	21.00	21.25	21.14	21.39	21.40		
30	IQAM	50	0	21.08	21.28	21.18	21.32	21.37		
30	IQAM	50	24	21.11	21.37	21.25	21.38	21.44		
30	IQAM	100	0	21.04	21.28	21.14	21.33	21.35		
30	IQAM	1	0	19.80	19.47	19.89	19.57	19.20		
30	IQAM	1	49	19.57	19.20	19.36	19.41	19.67		
30	IQAM	1	99	19.51	19.60	19.59	19.28	19.32		
30	IQAM	50	0	19.72	19.29	19.57	19.23	19.22		
30	IQAM	50	24	19.64	19.24	19.59	19.10	19.69		
30	IQAM	100	0	19.49	19.20	19.23	19.38	19.38		
30	SSBAM	1	0	18.75	19.24	19.29	19.68	19.43		
Channel										
Frequency (MHz)										
2503.5 2548.1 2593 2637.8 2682.5										
15	QPSK	1	0	24.08	24.26	24.10	24.32	24.32	25.00	0
15	QPSK	1	37	24.01	24					



Reduced power level for WWAN  
DSI 0

GSM1900_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8	824.2	836.4	848.8		
Frequency (MHz)	32.78	32.84	32.77	34.00	23.78	23.84	23.77	
GSM 1 Tx slot	33.03	33.01	33.00	34.00	24.03	24.01	24.00	
GPRS 1 Tx slot	29.76	29.75	29.78	31.00	23.76	23.75	23.78	
GPRS 2 Tx slots	27.74	27.85	27.81	29.20	23.48	23.59	23.55	
GPRS 3 Tx slots	26.26	26.33	26.32	28.00	23.26	23.33	23.32	
EDGE 1 Tx slot	27.16	27.09	27.11	28.00	18.16	18.09	18.11	
EDGE 2 Tx slots	23.94	23.91	24.19	25.00	17.94	17.91	18.19	
EDGE 3 Tx slots	22.07	22.02	22.31	23.20	17.81	17.76	18.05	
EDGE 4 Tx slots	20.58	20.56	20.67	22.00	17.58	17.56	17.67	

GSM1900_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8	824.2	836.4	848.8		
Frequency (MHz)	27.54	27.57	27.63	29.00	18.54	18.57	18.63	
GSM 1 Tx slot	27.64	27.63	27.69	29.00	18.64	18.63	18.69	
GPRS 1 Tx slot	24.44	24.42	24.58	26.00	18.44	18.42	18.58	
GPRS 2 Tx slots	22.49	22.51	22.63	24.20	18.23	18.25	18.37	
GPRS 3 Tx slots	21.09	21.12	21.01	23.00	18.09	18.12	18.01	
EDGE 1 Tx slot	21.64	21.45	21.50	23.00	12.64	12.45	12.50	
EDGE 2 Tx slots	18.32	18.32	18.41	20.00	12.32	12.32	12.41	
EDGE 3 Tx slots	16.61	16.44	16.34	18.20	12.35	12.18	12.08	
EDGE 4 Tx slots	15.17	15.12	15.05	17.00	12.12	12.05	14.00	

GSM1900_Ant 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8		
Frequency (MHz)	30.50	30.49	30.31	31.00	21.50	21.49	21.31	
GSM 1 Tx slot	30.40	30.42	30.38	31.00	21.40	21.42	21.38	
GPRS 1 Tx slot	27.08	27.18	27.03	28.00	21.08	21.18	21.03	
GPRS 2 Tx slots	25.03	25.15	25.08	26.20	20.77	20.89	20.82	
GPRS 3 Tx slots	23.52	23.66	23.53	25.00	20.52	20.66	20.53	
GPRS 4 Tx slots	28.09	28.24	28.01	28.50	17.09	17.24	17.01	
EDGE 1 Tx slot	22.82	23.11	22.87	23.50	16.82	17.11	16.87	
EDGE 2 Tx slots	20.83	21.20	20.94	21.70	16.57	16.94	16.68	
EDGE 3 Tx slots	19.19	19.38	19.16	20.50	16.19	16.38	16.17	

GSM1900_Ant 5	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8	1850.2	1880	1909.8		
Frequency (MHz)	24.71	24.76	24.79	26.00	15.71	15.76	15.79	
GSM 1 Tx slot	24.46	24.53	24.32	26.00	15.46	15.53	15.32	
GPRS 1 Tx slot	21.21	21.31	21.23	23.00	15.21	15.31	15.23	
GPRS 2 Tx slots	19.43	19.41	19.26	21.20	15.17	15.15	15.00	
GPRS 3 Tx slots	18.21	18.32	18.31	20.00	15.21	15.32	15.31	
GPRS 4 Tx slots	21.22	21.01	20.87	21.50	12.22	12.01	11.87	
EDGE 1 Tx slot	17.76	17.51	17.74	18.50	11.76	11.51	11.74	
EDGE 2 Tx slots	15.58	15.63	15.50	16.70	11.32	11.37	11.24	
EDGE 3 Tx slots	14.04	14.06	14.01	15.50	11.04	11.06	11.01	

Band	WCDMA II_Ant 2			Tune-up Limit (dBm)	WCDMA II_Ant 5			Tune-up Limit (dBm)
	9262	9400	9538		9262	9400	9538	
TX Channel	9662	9800	9938	9662	9800	9938		
Rx Channel	1952.4	1950	1907.6	1952.4	1950	1907.6		
Frequency (MHz)	24.06	24.09	24.07	25.00	17.32	17.33	17.26	
3GPP Rel 99	24.07	24.11	24.08	25.00	17.35	17.38	17.27	
3GPP Rel 6	23.04	23.15	23.09	24.00	16.44	16.46	16.34	
3GPP Rel 6	23.03	23.05	23.00	24.00	16.41	16.41	16.44	
3GPP Rel 6	22.65	22.76	22.63	23.50	15.94	15.98	15.81	
3GPP Rel 6	22.59	22.70	22.66	23.50	15.91	15.95	15.91	
3GPP Rel 8	23.00	23.05	23.04	24.00	16.21	16.19	16.27	
3GPP Rel 8	22.99	23.03	22.97	24.00	16.12	16.22	16.15	
3GPP Rel 8	22.59	22.62	22.58	23.50	15.80	15.97	15.70	
3GPP Rel 8	22.57	22.65	22.55	23.50	15.96	15.91	15.88	
3GPP Rel 6	19.99	19.91	19.92	24.00	13.42	13.48	13.41	
3GPP Rel 6	19.85	19.89	19.85	22.00	13.41	13.45	13.45	
3GPP Rel 6	20.92	20.95	20.98	23.00	14.62	14.61	14.76	
3GPP Rel 6	19.39	19.44	19.41	22.00	12.94	13.11	12.96	
3GPP Rel 6	20.90	20.90	20.90	24.00	14.56	14.51	14.52	
3GPP Rel 7	19.83	19.91	19.76	21.50	13.25	13.36	13.38	

Band	WCDMA IV_Ant 2			Tune-up Limit (dBm)	WCDMA IV_Ant 5			Tune-up Limit (dBm)
	1512	1413	1513		1512	1413	1513	
TX Channel	1537	1636	1736	1537	1636	1736		
Rx Channel	1712.4	1732.6	1752.6	1712.4	1732.6	1752.6		
Frequency (MHz)	23.97	24.10	24.05	25.00	17.16	17.33	17.23	
3GPP Rel 99	23.99	24.11	24.06	25.00	17.18	17.34	17.26	
3GPP Rel 6	23.06	23.23	23.20	24.00	16.34	16.51	16.46	
3GPP Rel 6	23.02	23.16	23.12	24.00	16.41	16.48	16.36	
3GPP Rel 6	22.55	22.69	22.67	23.50	15.92	16.05	15.89	
3GPP Rel 6	22.54	22.69	22.59	23.50	15.74	16.05	15.96	
3GPP Rel 8	23.04	23.02	22.96	24.00	16.35	16.22	16.17	
3GPP Rel 8	22.98	23.00	23.01	24.00	16.32	16.37	16.36	
3GPP Rel 8	22.50	22.61	22.49	23.50	15.74	15.72	15.89	
3GPP Rel 8	22.55	22.48	22.50	23.50	15.75	15.85	15.76	
3GPP Rel 6	20.80	20.92	20.88	24.00	14.12	14.19	14.16	
3GPP Rel 6	20.77	20.90	20.87	22.00	14.07	14.20	14.24	
3GPP Rel 6	21.81	21.98	21.91	23.00	15.11	15.32	15.15	
3GPP Rel 6	20.35	20.48	20.37	22.00	13.69	13.85	13.57	
3GPP Rel 6	21.80	21.90	21.90	24.00	15.94	15.14	15.12	
3GPP Rel 7	20.06	20.23	20.15	21.50	13.95	13.99	13.97	

Band	WCDMA V_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 1			Tune-up Limit (dBm)
	4132	4182	4233		4132	4182	4233	
TX Channel	4357	4407	4458	4357	4407	4458		
Rx Channel	826.4	836.4	846.6	826.4	836.4	846.6		
Frequency (MHz)	23.74	23.76	23.84	25.00	19.01	19.03	19.00	
3GPP Rel 99	23.76	23.78	23.67	25.00	19.05	19.06	19.01	
3GPP Rel 6	22.72	22.82	22.80	24.00	18.05	18.04	18.09	
3GPP Rel 6	22.78	22.75	22.86	24.00	18.04	18.06	18.01	
3GPP Rel 6	22.24	22.38	22.32	23.50	17.59	17.59	17.52	
3GPP Rel 6	22.27	22.35	22.31	23.50	17.52	17.53	17.55	
3GPP Rel 8	22.74	22.76	22.78	24.00	18.03	18.03	18.10	
3GPP Rel 8	22.70	22.73	22.71	24.00	18.04	18.00	18.22	
3GPP Rel 8	22.21	22.28	22.19	23.50	17.59	17.50	17.55	
3GPP Rel 8	22.23	22.22	22.20	23.50	17.53	17.60	17.57	
3GPP Rel 6	19.55	19.72	19.68	24.00	14.99	15.21	15.04	
3GPP Rel 6	17.68	17.76	17.71	22.00	13.01	13.10	13.00	
3GPP Rel 6	18.69	18.85	18.77	23.00	14.04	14.14	14.19	
3GPP Rel 6	19.13	19.22	19.16	22.00	14.64	14.71	14.52	
3GPP Rel 6	20.70	20.80	20.80	24.00	16.09	16.14	16.08	
3GPP Rel 7	19.02	18.85	18.92	21.50	13.86	14.07	14.08	



Band 2_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hch./F.Freq.	Power Lch./F.Freq.	Turn-up Int. (dB)	MPE (dB)		
Channel										
Frequency (MHz)	1	2	3	4	5	6	7	8	9	10
20	QPSK	1	0	23.81	23.71	23.84			24.5	0
20	QPSK	1	66	23.83	23.80	23.88				
20	QPSK	1	66	23.83	23.80	23.86				
20	QPSK	50	0	22.75	22.65	22.80			23.5	1
20	QPSK	50	66	22.75	22.65	22.83				
20	QPSK	100	0	22.65	22.50	22.73				
20	QPSK	100	66	22.65	22.50	22.87				
20	16QAM	1	49	22.77	22.86	22.87			23.5	1
20	16QAM	1	99	22.81	22.71	22.93				
20	16QAM	1	99	22.82	22.87	22.71				
20	16QAM	50	24	21.88	21.93	21.84			22.5	2
20	16QAM	50	74	21.87	21.94	21.82				
20	16QAM	100	0	21.92	21.85	21.88				
20	16QAM	100	66	21.83	21.87	21.58				
20	16QAM	1	49	21.94	21.82	21.83			22.5	2
20	16QAM	1	99	21.93	21.87	21.82				
20	16QAM	50	24	20.87	20.81	20.82			21.5	3
20	16QAM	50	74	20.86	20.81	20.88				
20	16QAM	100	0	20.80	20.82	20.58				
20	16QAM	100	66	20.80	20.82	20.82				
20	25QAM	1	49	19.80	19.80	19.81			19.5	5
20	25QAM	1	99	19.81	19.80	19.88				
20	25QAM	50	24	18.85	18.85	18.85			19.5	5
20	25QAM	50	74	18.85	18.85	18.85				
20	25QAM	100	0	18.85	18.85	18.80				
20	25QAM	100	66	18.85	18.85	18.84				
Channel										
Frequency (MHz)	1897.5	1890	1902.5	Turn-up Int. (dB)	MPE (dB)					
19	QPSK	1	0	23.77	23.80	23.80			24.5	0
19	QPSK	1	66	23.77	23.82	23.78				
19	QPSK	1	74	23.72	23.48	23.59				
19	QPSK	36	0	22.85	22.81	22.81			23.5	1
19	QPSK	36	66	22.81	22.81	22.89				
19	QPSK	36	36	22.87	22.82	22.87				
19	QPSK	75	0	22.98	22.83	22.86				
19	QPSK	75	66	22.98	22.83	22.83				
19	16QAM	1	37	23.02	23.03	22.98			23.5	1
19	16QAM	1	74	23.01	23.01	23.01				
19	16QAM	36	0	21.84	21.84	21.83			22.5	2
19	16QAM	36	20	21.85	21.85	21.83				
19	16QAM	75	0	21.80	21.85	21.84				
19	16QAM	75	66	21.80	21.85	21.84				
19	16QAM	1	0	21.87	21.78	21.87			22.5	2
19	16QAM	1	37	21.87	21.82	21.82				
19	16QAM	1	74	21.82	21.83	21.83				
19	16QAM	36	0	20.84	20.83	20.83			21.5	3
19	16QAM	36	20	20.85	20.84	20.88				
19	16QAM	75	0	20.88	20.84	20.86				
19	16QAM	75	66	20.88	20.84	20.86				
19	25QAM	1	37	19.23	19.26	19.24			19.5	5
19	25QAM	1	74	19.23	19.26	19.24				
19	25QAM	36	0	18.28	18.28	18.27			19.5	5
19	25QAM	36	20	18.28	18.28	18.27				
19	25QAM	75	0	18.28	18.28	18.24				
19	25QAM	75	66	18.28	18.28	18.24				
Channel										
Frequency (MHz)	1897.5	1890	1902.5	Turn-up Int. (dB)	MPE (dB)					
10	QPSK	1	0	23.60	23.60	23.60			24.5	0
10	QPSK	1	66	23.63	23.47	23.42				
10	QPSK	1	49	23.56	23.49	23.51				
10	QPSK	25	0	22.59	22.57	22.59			23.5	1
10	QPSK	25	66	22.56	22.80	22.56				
10	QPSK	25	25	22.59	22.50	22.45				
10	QPSK	75	0	22.77	22.42	22.36				
10	16QAM	1	25	22.89	22.36	22.51			23.5	1
10	16QAM	1	50	22.89	22.36	22.51				
10	16QAM	25	0	21.85	21.84	21.82			22.5	2
10	16QAM	25	12	21.84	21.88	21.83				
10	16QAM	50	0	21.87	21.87	21.87				
10	16QAM	50	66	21.87	21.87	21.84				
10	16QAM	1	0	22.02	21.88	21.84			22.5	2
10	16QAM	1	37	22.02	21.88	21.88				
10	16QAM	1	74	21.90	21.86	21.86				
10	16QAM	25	0	20.93	20.84	20.46			21.5	3
10	16QAM	25	25	20.93	20.85	20.48				
10	16QAM	50	0	20.80	20.80	20.55				
10	16QAM	50	66	20.83	20.81	20.46				
10	25QAM	1	25	18.41	18.23	18.23			19.5	5
10	25QAM	1	49	18.42	18.23	18.23				
10	25QAM	25	0	18.42	18.23	18.23			19.5	5
10	25QAM	25	12	18.42	18.23	18.23				
10	25QAM	50	0	18.42	18.23	18.21				
10	25QAM	50	66	18.42	18.23	18.21				
Channel										
Frequency (MHz)	1897.5	1890	1902.5	Turn-up Int. (dB)	MPE (dB)					
5	QPSK	1	0	23.53	23.43	23.63			24.5	0
5	QPSK	1	24	23.52	23.48	23.59				
5	QPSK	12	0	23.52	23.43	23.50				
5	QPSK	12	13	23.56	23.52	23.49			23.5	1
5	QPSK	25	0	22.89	22.83	22.82				
5	QPSK	25	12	22.88	23.01	22.86			23.5	1
5	QPSK	75	0	22.82	22.83	22.83				
5	16QAM	1	0	21.87	21.84	21.85			22.5	2
5	16QAM	1	12	21.82	21.88	21.84				
5	16QAM	12	0	21.85	21.84	21.83				
5	16QAM	12	13	21.85	21.84	21.85				
5	16QAM	25	0	21.80	21.86	21.80			22.5	2
5	16QAM	25	12	21.80	21.84	21.86				
5	16QAM	1	0	21.86	21.81	21.85			22.5	2
5	16QAM	1	12	21.86	21.81	21.82				
5	16QAM	12	0	21.82	21.81	21.81				
5	16QAM	12	13	21.82	21.81	21.81				
5	16QAM	25	0	20.79	20.84	20.80			21.5	3
5	16QAM	25	12	20.80	20.80	20.81				
5	16QAM	50	0	20.86	20.84	20.52				
5	16QAM	50	66	20.86	20.84	20.52				
5	25QAM	1	12	18.48	18.42	18.38			19.5	5
5	25QAM	1	24	18.42	18.23	18.24				
5	25QAM	12	0	18.48	18.24	18.23			19.5	5
5	25QAM	12	13	18.48	18.24	18.24				
5	25QAM	25	0	18.48	18.24	18.24			19.5	5
5	25QAM	25	12	18.48	18.24	18.24				
Channel										
Frequency (MHz)	1897.5	1890	1902.5	Turn-up Int. (dB)	MPE (dB)					
3	QPSK	1	0	23.74	23.49	23.57			24.5	0
3	QPSK	1	8	23.78	23.52	23.48				
3	QPSK	1	14	23.65	23.40	23.40				
3	QPSK	8	0	23.55	23.28	23.49			24.5	0
3	QPSK	8	4	23.54	23.51	23.52				
3	QPSK	8	7	23.56	23.52	23.50			23.5	1
3	QPSK	16	0	23.53	23.42	23.42				
3	16QAM	1	0	23.69	23.24	23.26			23.5	1
3	16QAM	1	8	23.65	22.80	22.80				
3	16QAM	1	14	23.61	23.27	23.26				
3	16QAM	8	0	21.62	21.80	21.52			22.5	2
3	16QAM	8	4	21.60	21.80	21.48				
3	16QAM	16	0	21.69	21.57	21.64				
3	16QAM	16	8	21.64	21.67	21.48			22.5	2
3	16QAM	1	0	21.81	21.54	21.48				
3	16QAM	1	8	21.81	21.54	21.48				
3	16QAM	8	0	20.43	20.44	20.43			21.5	3
3	1									



Band 4_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power High Ch./Freq.	Power Low Ch./Freq.	Turn-up (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.99	18.01	18.00		18.2	0	
20	QPSK	1	66	17.79	17.81	17.86		18.2	0	
20	QPSK	50	0	17.84	17.86	17.86		18.2	0	
20	QPSK	50	66	17.81	17.83	17.78		18.2	0	
20	QPSK	50	132	17.84	17.81	17.77		18.2	0	
20	QPSK	100	0	17.83	17.89	17.88		18.2	0	
20	QPSK	100	66	18.00	17.97	17.85		18.2	0	
20	QPSK	1	66	17.82	17.84	17.81		18.2	0	
20	QPSK	1	132	18.00	17.91	17.78		18.2	0	
20	QPSK	50	0	17.80	17.78	17.82		18.2	0	
20	QPSK	50	66	17.83	17.76	17.82		18.2	0	
20	QPSK	50	132	17.80	17.76	17.81		18.2	0	
20	QPSK	100	0	17.88	17.72	17.86		18.2	0	
20	QPSK	100	66	17.81	17.86	17.74		18.2	0	
20	QPSK	1	66	17.77	17.82	17.70		18.2	0	
20	QPSK	1	132	17.92	17.80	17.81		18.2	0	
20	QPSK	50	0	17.80	17.89	17.82		18.2	0	
20	QPSK	50	66	17.88	17.80	17.71		18.2	0	
20	QPSK	50	132	17.88	17.83	17.79		18.2	0	
20	QPSK	100	0	17.89	17.82	17.85		18.2	0	
20	QPSK	100	66	17.85	17.85	17.85		18.2	0	
20	QPSK	100	132	17.81	17.76	17.83		18.2	0	
20	QPSK	50	24	17.88	17.80	17.71		18.2	0	
20	QPSK	50	90	17.80	17.82	17.81		18.2	0	
20	QPSK	50	144	17.88	17.83	17.79		18.2	0	
20	QPSK	100	0	17.89	17.82	17.85		18.2	0	
20	QPSK	100	66	17.85	17.85	17.85		18.2	0	
20	QPSK	100	132	17.81	17.76	17.83		18.2	0	
20	QPSK	50	24	17.82	17.85	17.85		18.2	0	
20	QPSK	50	90	17.84	17.83	17.84		18.2	0	
20	QPSK	50	144	17.82	17.83	17.84		18.2	0	
20	QPSK	100	0	17.84	17.83	17.84		18.2	0	
20	QPSK	100	66	17.82	17.83	17.84		18.2	0	
20	QPSK	100	132	17.84	17.83	17.84		18.2	0	
Channel										
Frequency (MHz)										
16	QPSK	1	0	17.89	17.89	17.89		18.2	0	
16	QPSK	1	66	17.69	17.76	17.80		18.2	0	
16	QPSK	1	132	17.86	17.76	17.81		18.2	0	
16	QPSK	36	0	17.73	17.89	17.72		18.2	0	
16	QPSK	36	66	17.82	17.77	17.81		18.2	0	
16	QPSK	36	132	17.87	17.89	17.86		18.2	0	
16	QPSK	75	0	17.77	17.74	17.72		18.2	0	
16	QPSK	75	66	17.86	17.86	17.85		18.2	0	
16	QPSK	1	37	17.84	17.74	17.84		18.2	0	
16	QPSK	1	74	17.84	17.74	17.84		18.2	0	
16	QPSK	36	0	17.85	17.83	17.84		18.2	0	
16	QPSK	36	66	17.83	17.83	17.83		18.2	0	
16	QPSK	36	132	17.83	17.80	17.85		18.2	0	
16	QPSK	75	0	17.85	17.84	17.84		18.2	0	
16	QPSK	75	66	17.83	17.80	17.85		18.2	0	
16	QPSK	75	132	17.83	17.80	17.85		18.2	0	
16	QPSK	150	0	17.85	17.85	17.85		18.2	0	
16	QPSK	150	66	17.83	17.83	17.83		18.2	0	
16	QPSK	150	132	17.83	17.80	17.85		18.2	0	
16	QPSK	36	0	17.87	17.87	17.87		18.2	0	
16	QPSK	36	66	17.85	17.85	17.85		18.2	0	
16	QPSK	36	132	17.85	17.82	17.87		18.2	0	
16	QPSK	75	0	17.85	17.85	17.85		18.2	0	
16	QPSK	75	66	17.83	17.83	17.83		18.2	0	
16	QPSK	75	132	17.83	17.80	17.85		18.2	0	
16	QPSK	150	0	17.85	17.85	17.85		18.2	0	
16	QPSK	150	66	17.83	17.83	17.83		18.2	0	
16	QPSK	150	132	17.83	17.80	17.85		18.2	0	
Channel										
Frequency (MHz)										
16	QPSK	1	0	17.21	17.33	17.19		18.0	0	
16	QPSK	1	66	17.23	17.23	17.19		18.0	0	
16	QPSK	1	132	17.19	17.19	17.19		18.0	0	
16	QPSK	36	0	17.24	17.25	17.21		18.0	0	
16	QPSK	36	66	17.22	17.22	17.24		18.0	0	
16	QPSK	36	132	17.24	17.24	17.24		18.0	0	
16	QPSK	75	0	17.24	17.21	17.24		18.0	0	
16	QPSK	75	66	17.22	17.22	17.22		18.0	0	
16	QPSK	75	132	17.24	17.21	17.24		18.0	0	
16	QPSK	150	0	17.24	17.21	17.24		18.0	0	
16	QPSK	150	66	17.22	17.22	17.22		18.0	0	
16	QPSK	150	132	17.24	17.21	17.24		18.0	0	
16	QPSK	36	0	17.27	17.17	17.07		18.0	0	
16	QPSK	36	66	17.23	17.20	17.24		18.0	0	
16	QPSK	36	132	17.27	17.27	17.27		18.0	0	
16	QPSK	75	0	17.27	17.27	17.27		18.0	0	
16	QPSK	75	66	17.25	17.25	17.25		18.0	0	
16	QPSK	75	132	17.25	17.22	17.28		18.0	0	
16	QPSK	150	0	17.27	17.27	17.27		18.0	0	
16	QPSK	150	66	17.25	17.25	17.25		18.0	0	
16	QPSK	150	132	17.25	17.22	17.28		18.0	0	
16	QPSK	36	0	17.30	17.17	17.07		18.0	0	
16	QPSK	36	66	17.26	17.20	17.24		18.0	0	
16	QPSK	36	132	17.30	17.30	17.30		18.0	0	
16	QPSK	75	0	17.30	17.11	17.13		18.0	0	
16	QPSK	75	66	17.28	17.28	17.28		18.0	0	
16	QPSK	75	132	17.28	17.25	17.31		18.0	0	
16	QPSK	150	0	17.30	17.27	17.29		18.0	0	
16	QPSK	150	66	17.28	17.28	17.28		18.0	0	
16	QPSK	150	132	17.28	17.25	17.31		18.0	0	
16	QPSK	36	0	17.33	17.07	17.15		18.0	0	
16	QPSK	36	66	17.29	17.29	17.29		18.0	0	
16	QPSK	36	132	17.33	17.33	17.33		18.0	0	
16	QPSK	75	0	17.33	17.15	17.15		18.0	0	
16	QPSK	75	66	17.31	17.31	17.31		18.0	0	
16	QPSK	75	132	17.31	17.28	17.34		18.0	0	
16	QPSK	150	0	17.33	17.33	17.33		18.0	0	
16	QPSK	150	66	17.31	17.31	17.31		18.0	0	
16	QPSK	150	132	17.31	17.28	17.34		18.0	0	
16	QPSK	36	0	17.36	17.09	17.17		18.0	0	
16	QPSK	36	66	17.32	17.32	17.32		18.0	0	
16	QPSK	36	132	17.36	17.36	17.36		18.0	0	
16	QPSK	75	0	17.36	17.11	17.13		18.0	0	
16	QPSK	75	66	17.34	17.34	17.34		18.0	0	
16	QPSK	75	132	17.34	17.31	17.37		18.0	0	
16	QPSK	150	0	17.36	17.36	17.36		18.0	0	
16	QPSK	150	66	17.34	17.34	17.34		18.0	0	
16	QPSK	150	132	17.34	17.31	17.37		18.0	0	
16	QPSK	36	0	17.39	17.07	17.15		18.0	0	
16	QPSK	36	66	17.35	17.35	17.35		18.0	0	
16	QPSK	36	132	17.39	17.39	17.39		18.0	0	
16	QPSK	75	0	17.39	17.11	17.13		18.0	0	
16	QPSK	75	66	17.37	17.37	17.37		18.0	0	
16	QPSK	75	132	17.37	17.34	17.40		18.0	0	
16	QPSK	150	0	17.39	17.39	17.39		18.0	0	
16	QPSK	150	66	17.37	17.37	17.37		18.0	0	
16	QPSK	150	132	17.37	17.34	17.40		18.0	0	
16	QPSK	36	0	17.42	17.14	17.26		18.0	0	
16	QPSK	36	66							



Band 7_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Max Ch. / Freq.	Power Min Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)				2510	2515	2560				
20	QPSK	1	0	21.74	22.08	21.92			23	0
20	QPSK	1	48	18.82	19.12	18.88				
20	QPSK	1	96	21.74	21.77	21.81				
20	QPSK	50	0	20.85	21.10	20.94			22	1
20	QPSK	50	24	20.82	21.02	20.92				
20	QPSK	50	50	20.79	20.87	20.71				
20	QPSK	100	0	20.81	20.83	20.83				
20	QPSK	100	0	21.00	21.02	21.02				
20	16QAM	1	48	20.87	21.10	21.20			22	1
20	16QAM	1	96	20.87	21.13	20.87				
20	16QAM	50	0	19.66	19.92	19.85				
20	16QAM	50	24	19.73	19.92	19.85			21	2
20	16QAM	50	50	19.81	20.04	19.79				
20	16QAM	100	0	19.81	20.04	19.79				
20	16QAM	100	0	19.24	19.98	19.77				
20	64QAM	1	0	19.87	20.15	19.87				
20	64QAM	1	48	19.99	20.22	20.09			21	2
20	64QAM	1	96	19.74	19.92	19.86				
20	64QAM	50	0	18.81	19.86	19.81				
20	64QAM	50	24	18.96	19.91	19.83			20	3
20	64QAM	50	50	18.79	18.85	18.81				
20	256QAM	1	0	17.25	17.47	17.14				
20	256QAM	1	48	17.21	17.17	17.25			18	5
20	256QAM	1	96	17.13	17.07	17.14				
20	256QAM	50	0	16.99	17.02	17.05				
20	256QAM	50	24	17.18	17.07	17.11			18	5
20	256QAM	50	50	17.10	17.04	17.03				
20	256QAM	100	0	16.99	17.00	17.00				
Channel										
Frequency (MHz)				2565	2510	2515				
15	QPSK	1	0	21.85	21.96	21.97			23	0
15	QPSK	1	48	19.87	20.07	19.92				
15	QPSK	1	96	21.84	22.06	21.97				
15	QPSK	36	0	20.68	20.81	20.83				
15	QPSK	36	24	20.65	20.84	20.84			22	1
15	QPSK	36	36	20.72	20.93	20.79				
15	QPSK	75	0	20.74	20.89	20.83				
15	QPSK	75	0	21.07	21.09	21.11				
15	16QAM	1	37	21.28	21.19	21.11			22	1
15	16QAM	1	74	21.02	21.03	21.04				
15	16QAM	36	0	19.86	19.88	19.82				
15	16QAM	36	20	19.81	19.94	19.82			21	2
15	16QAM	36	40	19.89	19.91	19.84				
15	16QAM	75	0	19.81	19.99	19.79				
15	64QAM	1	0	19.82	19.92	19.88			21	2
15	64QAM	1	48	19.89	20.00	19.90				
15	64QAM	1	96	19.83	20.02	19.92				
15	64QAM	36	0	18.86	18.94	18.88				
15	64QAM	36	20	18.89	18.91	18.84			20	3
15	64QAM	36	40	18.85	19.03	18.85				
15	64QAM	75	0	18.72	18.89	18.80				
15	256QAM	1	0	17.09	17.09	17.09				
15	256QAM	1	37	17.09	17.12	17.28			18	5
15	256QAM	1	74	17.02	17.12	17.27				
15	256QAM	36	0	16.99	17.02	17.09				
15	256QAM	36	20	17.00	17.02	16.96			18	5
15	256QAM	36	39	17.00	17.02	17.19				
15	256QAM	75	0	16.98	17.13	17.24				
Channel										
Frequency (MHz)				2565	2510	2565				
10	QPSK	1	0	23.12	23.06	23.06				
10	QPSK	1	48	21.85	22.02	21.86			23	0
10	QPSK	1	96	21.86	22.07	21.87				
10	QPSK	25	0	20.95	20.95	20.95				
10	QPSK	25	12	20.76	20.88	20.82			22	1
10	QPSK	25	25	20.73	20.95	20.81				
10	QPSK	50	0	20.71	20.85	20.84				
10	16QAM	1	0	20.93	21.31	21.35				
10	16QAM	1	25	20.95	21.40	21.28			22	1
10	16QAM	1	48	20.97	21.05	21.05				
10	16QAM	25	0	19.62	19.88	19.81				
10	16QAM	25	12	19.68	19.82	19.82			21	2
10	16QAM	25	25	19.71	19.86	19.86				
10	16QAM	50	0	19.68	19.85	19.80				
10	64QAM	1	0	20.00	20.20	20.06			21	2
10	64QAM	1	25	20.07	20.27	20.03				
10	64QAM	1	48	20.07	20.30	20.05				
10	64QAM	25	0	18.69	18.90	18.88				
10	64QAM	25	12	18.74	18.87	18.84			20	3
10	64QAM	25	25	18.72	18.96	18.77				
10	64QAM	50	0	18.74	18.92	18.79				
10	256QAM	1	0	17.03	17.04	17.03				
10	256QAM	1	25	17.17	17.04	17.14			18	5
10	256QAM	1	48	17.09	17.04	17.20				
10	256QAM	25	0	17.12	17.05	17.14				
10	256QAM	25	12	17.19	17.06	17.31			18	5
10	256QAM	25	25	17.19	16.95	16.92				
10	256QAM	50	0	17.02	17.05	17.05				
Channel										
Frequency (MHz)				2575	2510	2565				
5	QPSK	1	0	23.12	23.06	23.06				
5	QPSK	1	12	23.85	22.00	21.58			23	0
5	QPSK	1	24	23.83	22.07	22.04				
5	QPSK	12	0	22.73	23.08	23.03				
5	QPSK	12	7	22.72	23.00	23.73			22	1
5	QPSK	12	13	22.81	23.01	20.47				
5	QPSK	25	0	22.71	23.05	23.05				
5	16QAM	1	0	20.82	21.13	20.68			22	1
5	16QAM	1	12	20.85	21.14	20.71				
5	16QAM	1	24	20.83	20.81	20.81				
5	16QAM	12	0	19.80	19.88	19.81				
5	16QAM	12	7	19.79	20.01	19.88			21	2
5	16QAM	12	13	19.83	19.87	19.80				
5	16QAM	25	0	19.82	19.93	19.86				
5	64QAM	1	0	19.85	20.27	19.80			21	2
5	64QAM	1	12	19.85	20.29	19.73				
5	64QAM	1	24	20.01	20.28	19.88				
5	64QAM	12	0	18.75	19.06	18.79				
5	64QAM	12	7	18.68	19.04	18.82			20	3
5	64QAM	12	13	18.86	19.01	18.81				
5	64QAM	25	0	18.79	18.90	18.82				
5	256QAM	1	0	16.98	16.97	17.09				
5	256QAM	1	12	17.11	17.14	17.05			18	5
5	256QAM	1	24	17.14	16.92	17.11				
5	256QAM	12	0	17.06	17.04	16.98				
5	256QAM	12	7	17.10	17.00	17.11			18	5
5	256QAM	12	13	17.08	17.08	17.24				
5	256QAM	25	0	17.03	17.09	17.21				

Band 7_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Max Ch. / Freq.	Power Min Ch. / Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)				2515	2515	2560				
20	QPSK	1	0	24.03	24.19	24.11			25	0
20	QPSK	1	48	23.89	24.04	23.98				
20	QPSK	1	96	23.89	23.97	23.97				
20	QPSK	50	0	23.10	23.18	23.14			24	1
20	QPSK	50	24	23.07	23.10	23.07				
20	QPSK	50	50	22.94	23.06	23.05				
20	QPSK	100	0	22.69	23.15	23.13				
20	QPSK	100	0	23.00	23.00	23.00				
20	16QAM	1	48	23.28	23.27	23.31			24	1
20	16QAM	1	96	23.30	23.35	23.18				



Band 12_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	25.01	25.15	25.05				
10	QPSK	1	25	25.00	25.13	25.02			25.7	0
10	QPSK	1	49	25.00	25.13	25.02				
10	QPSK	25	0	25.96	24.12	24.07				
10	QPSK	25	25	25.96	24.08	24.02			24.7	1
10	QPSK	25	25	25.98	24.08	24.02				
10	QPSK	50	0	24.02	24.06	24.04				
10	QPSK	50	25	24.02	24.06	24.04				
10	16QAM	1	25	24.98	24.42	24.15			24.7	1
10	16QAM	1	49	24.92	24.52	24.18				
10	16QAM	1	73	24.92	24.52	24.18				
10	16QAM	25	12	22.93	22.92	23.02			23.7	2
10	16QAM	25	25	22.93	22.92	23.02				
10	16QAM	25	25	22.92	22.96	23.06				
10	16QAM	50	0	22.98	22.94	23.07				
10	16QAM	1	0	23.18	23.15	23.23			23.7	2
10	16QAM	1	25	23.23	23.07	23.40				
10	16QAM	1	49	23.35	23.46	23.34				
10	16QAM	25	0	21.88	22.02	22.05				
10	16QAM	25	12	21.99	22.06	22.14			22.7	3
10	16QAM	25	25	22.00	22.07	22.11				
10	16QAM	50	0	22.02	22.04	22.04				
10	256QAM	1	25	20.99	20.97	20.97				
10	256QAM	1	25	20.25	20.19	20.25			20.7	5
10	256QAM	1	49	20.17	20.18	20.18				
10	256QAM	25	0	22.00	22.00	22.00				
10	256QAM	25	12	20.08	20.08	20.08			20.7	5
10	256QAM	25	25	20.08	19.99	20.00				
10	256QAM	50	0	20.00	20.00	20.00				
Channel										
Frequency (MHz)										
8	QPSK	1	0	25.03	25.13	24.96				
8	QPSK	1	24	25.00	25.04	25.11			25.7	0
8	QPSK	12	0	23.94	24.06	23.99				
8	QPSK	12	7	23.93	24.01	23.98				
8	QPSK	12	13	24.00	23.99	23.93			24.7	1
8	QPSK	25	0	23.99	23.94	24.00				
8	16QAM	1	24	23.99	24.00	24.29				
8	16QAM	1	12	24.43	24.24	24.18			24.7	1
8	16QAM	1	24	24.49	24.28	24.53				
8	16QAM	12	0	22.95	23.07	23.01				
8	16QAM	12	7	22.91	23.05	23.04			23.7	2
8	16QAM	12	13	22.99	23.06	23.02				
8	16QAM	25	0	22.98	23.06	23.17				
8	16QAM	1	0	22.71	23.02	23.07			23.7	2
8	16QAM	1	24	22.79	23.08	23.02				
8	16QAM	1	24	22.75	23.11	23.11				
8	16QAM	12	0	21.99	22.02	21.88				
8	16QAM	12	7	21.99	22.04	21.99			22.7	3
8	16QAM	12	13	21.97	21.94	21.85				
8	16QAM	25	0	21.88	22.03	21.86				
8	16QAM	1	0	20.99	20.99	20.99				
8	16QAM	1	12	20.10	20.02	20.12			20.7	5
8	256QAM	1	24	20.11	20.02	20.07				
8	256QAM	1	24	20.09	19.96	20.05				
8	256QAM	12	7	20.03	20.02	20.12			20.7	5
8	256QAM	12	13	20.01	20.06	20.02				
8	256QAM	25	0	20.00	20.00	20.00				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.02	23.96	24.05				
3	QPSK	1	14	24.02	23.96	24.05			25.7	0
3	QPSK	1	14	24.04	23.97	24.07				
3	QPSK	8	0	23.92	23.97	23.99				
3	QPSK	8	7	23.97	24.02	24.02			24.7	1
3	QPSK	16	0	24.24	24.00	24.00				
3	16QAM	1	0	24.24	24.40	24.43				
3	16QAM	1	8	24.33	24.36	24.51			24.7	1
3	16QAM	1	8	24.29	24.31	24.51				
3	16QAM	8	0	22.93	22.99	23.11				
3	16QAM	8	4	23.00	23.04	23.03			23.7	2
3	16QAM	8	12	23.00	23.06	23.10				
3	16QAM	16	0	22.90	22.85	23.02				
3	16QAM	1	0	22.92	23.08	23.09			23.7	2
3	16QAM	1	8	23.18	23.31	23.33				
3	16QAM	1	14	23.27	23.31	23.07				
3	16QAM	8	0	21.95	21.95	22.06				
3	16QAM	8	7	22.03	22.01	21.99			22.7	3
3	16QAM	8	7	22.03	22.01	21.95				
3	16QAM	15	0	22.07	22.01	21.99				
3	256QAM	1	0	19.90	19.97	19.88				
3	256QAM	1	8	19.95	20.04	19.93			20.7	5
3	256QAM	8	0	19.92	19.97	20.05				
3	256QAM	8	4	20.15	19.96	20.08			20.7	5
3	256QAM	8	7	20.02	20.03	20.04				
3	256QAM	15	0	19.99	19.98	20.12				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.82	24.80	24.85				
1.4	QPSK	1	3	24.83	24.80	24.85				
1.4	QPSK	1	5	24.87	24.89	24.83			25.7	0
1.4	QPSK	3	0	24.91	24.87	24.86				
1.4	QPSK	3	1	24.93	24.89	24.95				
1.4	QPSK	3	3	24.93	24.93	25.05				
1.4	16QAM	1	0	23.98	24.01	24.06			24.7	1
1.4	16QAM	1	0	23.98	24.07	23.84				
1.4	16QAM	1	3	24.03	24.13	23.84				
1.4	16QAM	3	0	23.98	24.07	23.83				
1.4	16QAM	3	0	23.97	24.11	24.05			24.7	1
1.4	16QAM	3	1	23.97	24.06	23.95				
1.4	16QAM	3	1	23.99	23.98	24.05				
1.4	16QAM	6	0	22.96	23.06	22.99			23.7	2
1.4	16QAM	1	0	23.15	23.20	23.29				
1.4	16QAM	1	8	23.13	23.20	23.29				
1.4	16QAM	1	6	23.15	23.28	23.29			23.7	2
1.4	16QAM	3	0	23.02	23.10	23.09				
1.4	16QAM	3	2	23.06	23.21	23.22				
1.4	16QAM	3	3	22.97	23.14	23.28			22.7	3
1.4	16QAM	6	0	23.94	21.97	21.92				
1.4	256QAM	1	0	19.94	19.95	20.09				
1.4	256QAM	1	3	20.03	19.99	20.15			20.7	5
1.4	256QAM	1	3	20.06	19.92	19.93				
1.4	256QAM	3	0	20.12	20.04	20.10				
1.4	256QAM	3	1	20.13	20.05	20.10				
1.4	256QAM	3	0	19.99	20.00	20.10			20.7	5

Band 12_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up Int. (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	21.08	21.18	21.10			21.7	0
10	QPSK	1	25	21.02	21.02	21.02				
10	QPSK	1	49	21.00	21.02	21.02				
10	QPSK	25	0	21.06	21.10	21.04				
10	QPSK	25	12	20.98	21.02	21.02			21.7	0
10	QPSK	25	25	20.98	20.97	20.99				
10	QPSK	50	0	21.02	21.09	21.08				
10	16QAM	1	25	21.24	21.41	21.39			21.7	0
10	16QAM	1	25	21.24	21.58	21.42				
10	16QAM	1	49	21.34	21.53	21.35				
10	16QAM	25	0	21.02	21.02	21.01				
10	16QAM	25	12	21.08	21.17	20.97			21.7	0
10	16QAM	25	25	20.96	21.00	21.02				
10	16QAM	50	0	21.00	21.11	21.10				
10	16QAM	1	25	21.07	21.23	21.09			21.7	0
10	16QAM	25	0	20.98	20.90					



Band 26_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
15	QPSK	1	0	25.18	25.21	25.15				
15	QPSK	37	0	25.13	25.18	25.07	25.7	0		
15	QPSK	1	74	25.12	25.13	25.07				
15	QPSK	36	0	25.61	25.67	25.75				
15	QPSK	20	0	22.77	22.80	22.75			24.7	1
15	QPSK	36	39	23.78	23.80	23.64				
15	QPSK	75	0	23.82	23.83	23.81				
15	HQAM	1	0	24.02	24.18	24.22				
15	HQAM	1	37	24.08	24.23	24.28			24.7	1
15	HQAM	1	74	24.11	24.19	24.22				
15	HQAM	36	0	22.74	22.81	22.79				
15	HQAM	36	20	22.78	22.82	22.77			23.7	2
15	HQAM	36	39	22.77	22.80	22.72				
15	HQAM	75	0	22.78	22.84	22.81				
15	HQAM	1	0	22.77	22.88	23.10				
15	HQAM	1	37	22.80	23.12	22.96			23.7	2
15	HQAM	1	74	22.77	23.09	22.99				
15	HQAM	36	0	21.80	21.78	21.75				
15	HQAM	36	20	21.84	21.78	21.85			22.7	3
15	HQAM	36	39	21.78	21.72	21.76				
15	HQAM	75	0	21.72	21.75	21.80				
15	ZSSBQAM	1	0	19.87	19.89	19.86				
15	ZSSBQAM	1	37	19.91	19.95	19.88			20.7	5
15	ZSSBQAM	1	74	19.98	19.88	19.98				
15	ZSSBQAM	36	0	19.88	19.87	19.73				
15	ZSSBQAM	36	20	19.82	19.83	19.86			20.7	5
15	ZSSBQAM	36	39	19.82	19.88	19.78				
15	ZSSBQAM	75	0	19.82	19.83	19.73				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.71	24.84	24.69				
10	QPSK	1	25	24.78	24.82	24.71			25.7	0
10	QPSK	1	49	24.84	24.81	24.78				
10	QPSK	25	0	23.82	23.78	23.80				
10	QPSK	12	0	23.78	23.83	23.80			24.7	1
10	QPSK	25	25	23.82	23.80	23.82				
10	HQAM	1	0	24.08	23.81	23.67				
10	HQAM	1	25	24.28	23.87	23.58			24.7	1
10	HQAM	1	49	24.07	23.69	23.63				
10	HQAM	25	0	22.72	22.91	22.89				
10	HQAM	25	12	22.75	22.90	22.82			23.7	2
10	HQAM	25	25	22.78	22.95	22.90				
10	HQAM	50	0	22.81	22.86	22.83				
10	HQAM	1	0	22.57	22.36	22.56			23.7	2
10	HQAM	1	25	22.58	22.55	22.56				
10	HQAM	1	49	22.59	23.02	23.05				
10	HQAM	25	0	21.78	21.86	21.79				
10	HQAM	25	12	21.78	21.72	21.74			22.7	3
10	HQAM	25	25	21.85	21.72	21.71				
10	HQAM	50	0	21.77	21.81	21.85				
10	ZSSBQAM	1	0	19.82	19.81	19.81				
10	ZSSBQAM	1	25	19.41	19.41	19.40			20.7	5
10	ZSSBQAM	1	49	19.71	19.85	19.85				
10	ZSSBQAM	25	0	19.82	19.84	19.85				
10	ZSSBQAM	25	12	19.77	19.45	19.83			20.7	5
10	ZSSBQAM	25	25	19.41	19.82	19.81				
10	ZSSBQAM	50	0	19.87	19.46	19.71				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.73	24.77	24.68				
5	QPSK	1	12	24.84	24.75	24.84			25.7	0
5	QPSK	1	24	24.78	24.72	24.78				
5	QPSK	12	0	23.78	23.84	23.84				
5	QPSK	12	12	23.78	23.86	23.83			24.7	1
5	QPSK	24	0	23.82	23.82	23.82				
5	HQAM	1	0	23.77	23.84	24.17				
5	HQAM	1	12	23.81	23.87	24.23			24.7	1
5	HQAM	1	24	23.88	23.86	24.06				
5	HQAM	12	0	22.69	22.79	22.89				
5	HQAM	12	7	22.77	22.80	22.80			23.7	2
5	HQAM	12	12	22.72	22.70	22.80				
5	HQAM	24	0	22.74	22.68	22.50				
5	HQAM	1	0	22.68	22.04	23.11			23.7	2
5	HQAM	1	12	22.63	23.03	23.03				
5	HQAM	1	24	23.02	23.03	23.10				
5	HQAM	12	0	21.78	21.88	21.87			22.7	3
5	HQAM	12	7	21.83	21.81	21.84				
5	HQAM	12	12	21.79	21.77	21.82				
5	HQAM	24	0	21.74	21.71	21.82				
5	ZSSBQAM	1	0	19.82	19.83	19.45				
5	ZSSBQAM	1	12	19.66	19.47	19.83			20.7	5
5	ZSSBQAM	1	24	19.64	19.59	19.49				
5	ZSSBQAM	12	0	19.84	19.83	19.71				
5	ZSSBQAM	12	7	19.65	19.81	19.86			20.7	5
5	ZSSBQAM	12	12	19.82	19.78	19.55				
5	ZSSBQAM	24	0	19.82	19.52	19.80				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.67	24.55	24.63				
3	QPSK	1	8	24.59	25.02	24.51			25.7	0
3	QPSK	1	14	24.65	24.99	24.94				
3	QPSK	8	0	23.82	23.81	23.85				
3	QPSK	8	4	23.75	23.74	23.83			24.7	1
3	QPSK	8	7	23.74	23.80	23.88				
3	QPSK	15	0	23.78	23.77	23.85				
3	HQAM	1	0	24.30	24.26	24.50				
3	HQAM	1	8	24.23	24.26	24.06			24.7	1
3	HQAM	1	14	24.25	23.94	24.05				
3	HQAM	8	0	22.83	22.78	22.88				
3	HQAM	8	4	22.78	22.74	22.62			23.7	2
3	HQAM	15	0	22.83	22.81	22.80				
3	HQAM	1	0	22.55	22.82	22.77			23.7	2
3	HQAM	1	8	22.59	22.70	22.67				
3	HQAM	1	14	22.57	22.69	22.79				
3	HQAM	8	0	21.78	21.62	21.70			22.7	3
3	HQAM	8	4	21.83	21.61	21.72				
3	HQAM	8	7	21.88	21.70	21.83				
3	HQAM	15	0	21.69	21.85	21.80				
3	ZSSBQAM	1	0	19.84	19.85	19.40				
3	ZSSBQAM	1	8	19.74	19.44	19.45			20.7	5
3	ZSSBQAM	1	14	19.73	19.46	19.46				
3	ZSSBQAM	8	0	19.88	19.79	19.52				
3	ZSSBQAM	8	4	19.48	19.70	19.50			20.7	5
3	ZSSBQAM	15	0	19.86	19.46	19.70				
3	ZSSBQAM	15	0	19.69	19.42	19.55				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	25.10	25.12	25.03				
1.4	QPSK	1	3	25.14	25.13	25.02				
1.4	QPSK	1	5	25.09	25.09	24.97			25.7	0
1.4	QPSK	3	0	24.77	24.85	24.78				
1.4	QPSK	3	1	24.85	24.78	24.72				
1.4	QPSK	3	3	24.77	24.70	24.70			24.7	1
1.4	QPSK	3	5	23.99	23.88	23.90				
1.4	HQAM	1	0	24.07	24.09	24.25				
1.4	HQAM	1	3	24.03	24.39	24.24			24.7	1
1.4	HQAM	1	5	23.99	24.10	24.20				
1.4	HQAM	3	0	23.88	23.78	23.78				
1.4	HQAM	3	1	23.82	23.85	23.83				
1.4	HQAM	3	3	23.91	23.79	23.82				
1.4	HQAM	6	0	22.88	22.99	22.99			23.7	2
1.4	HQAM	1	0	22.70	23.19	23.20				
1.4	HQAM	1	3	22.74	23.12	23.21				
1.4	HQAM	1	5	22.67	23.09	22.97			23.7	2
1.4	HQAM	1	1	22.61	23.02	23.01				
1.4	HQAM	1	1	22.85	23.08	23.00				
1.4	HQAM	3	3	22.52	23.01					



Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.81	22.84	22.86				
20	QPSK	1	49	22.83	22.82	22.85			24	0
20	QPSK	1	99	22.80	22.86	22.84				
20	QPSK	50	0	21.64	21.31	21.52				
20	QPSK	50	24	21.78	21.33	21.28			23	1
20	QPSK	50	60	21.54	21.25	21.28				
20	QPSK	100	0	21.85	21.59	21.28				
20	16QAM	1	0	21.84	21.37	21.28				
20	16QAM	1	49	21.82	21.27	21.33			23	1
20	16QAM	1	99	21.84	21.25	21.30				
20	16QAM	50	0	20.81	20.33	20.30				
20	16QAM	50	24	20.59	20.25	20.31			22	2
20	16QAM	50	49	20.52	20.29	20.28				
20	16QAM	100	0	20.56	20.24	20.31				
20	64QAM	1	0	20.32	20.03	20.07			22	2
20	64QAM	1	99	20.38	20.01	20.02				
20	64QAM	50	0	19.59	19.31	19.34				
20	64QAM	50	24	19.61	19.28	19.35			21	3
20	64QAM	50	49	19.58	19.25	19.28				
20	256QAM	1	0	19.82	19.29	19.28				
20	256QAM	1	49	17.24	17.34	17.50				
20	256QAM	1	99	17.27	17.24	17.31			19	5
20	256QAM	50	0	17.35	17.09	17.33				
20	256QAM	50	24	17.14	17.25	17.30			19	5
20	256QAM	50	49	17.22	17.20	17.22				
20	256QAM	100	0	17.30	17.20	17.20				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.77	22.38	22.36			24	0
15	QPSK	1	37	22.78	22.37	22.35				
15	QPSK	1	74	22.70	22.39	22.38				
15	QPSK	50	0	21.70	21.33	21.29				
15	QPSK	50	20	21.69	21.25	21.20			23	1
15	QPSK	50	39	21.68	21.24	21.24				
15	QPSK	75	0	21.37	21.27	21.25				
15	16QAM	1	0	21.72	21.33	21.29				
15	16QAM	1	37	21.79	21.35	21.31			23	1
15	16QAM	1	74	21.69	21.23	21.28				
15	16QAM	50	0	20.71	20.23	20.27				
15	16QAM	50	20	20.53	20.11	20.24			22	2
15	16QAM	50	39	20.50	20.17	20.25				
15	16QAM	75	0	20.69	20.28	20.30				
15	64QAM	1	0	20.11	19.78	19.24			22	2
15	64QAM	1	37	20.52	20.01	20.02				
15	64QAM	1	74	20.52	20.08	20.05				
15	64QAM	50	0	19.75	19.35	19.27			21	3
15	64QAM	50	20	19.70	19.27	19.31				
15	64QAM	50	39	19.73	19.34	19.38				
15	256QAM	1	0	17.23	17.34	17.20			19	5
15	256QAM	1	37	17.17	17.25	17.32				
15	256QAM	1	74	17.19	17.10	17.15				
15	256QAM	50	0	17.11	17.32	17.34			19	5
15	256QAM	50	20	17.09	17.20	17.21				
15	256QAM	50	39	17.34	17.35	17.22				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.81	22.82	22.84			24	0
10	QPSK	1	25	22.81	22.81	22.29				
10	QPSK	1	50	22.80	22.86	22.84				
10	QPSK	25	0	21.77	21.40	21.52				
10	QPSK	25	12	21.71	21.25	21.20			23	1
10	QPSK	25	24	21.74	21.18	21.18				
10	QPSK	50	0	21.78	21.24	21.21				
10	16QAM	1	0	21.78	21.44	21.38			23	1
10	16QAM	1	25	21.78	21.44	21.38				
10	16QAM	1	49	21.86	21.29	21.39				
10	16QAM	25	0	20.73	20.22	20.30			22	2
10	16QAM	25	12	20.65	20.16	20.21				
10	16QAM	25	24	20.62	20.25	20.16				
10	16QAM	50	0	20.73	20.22	20.30				
10	64QAM	1	0	20.52	20.01	20.03			22	2
10	64QAM	1	25	20.51	20.14	20.05				
10	64QAM	1	49	20.48	20.03	20.03				
10	64QAM	25	0	19.75	19.28	19.21			21	3
10	64QAM	25	12	19.62	19.28	19.38				
10	64QAM	25	24	19.71	19.15	19.20				
10	64QAM	50	0	19.75	19.26	19.27				
10	64QAM	50	12	17.23	17.34	17.20			19	5
10	256QAM	1	0	17.23	17.34	17.20				
10	256QAM	1	25	17.17	17.35	17.32				
10	256QAM	1	49	17.10	17.15	17.15				
10	256QAM	25	0	17.11	17.32	17.34			19	5
10	256QAM	25	12	17.09	17.20	17.21				
10	256QAM	25	24	17.34	17.35	17.22				

Band 38_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.54	24.39	24.38			25.5	0
20	QPSK	1	49	24.55	24.38	24.36				
20	QPSK	1	99	24.51	24.37	24.31				
20	QPSK	50	0	23.57	23.32	23.39				
20	QPSK	50	24	23.55	23.25	23.38			24.5	1
20	QPSK	50	49	23.53	23.35	23.38				
20	QPSK	100	0	23.49	23.27	23.41				
20	16QAM	1	0	23.61	23.31	23.35				
20	16QAM	1	49	23.50	23.36	23.34			24.5	1
20	16QAM	1	99	23.56	23.38	23.35				
20	16QAM	50	0	22.91	22.39	22.38				
20	16QAM	50	24	22.59	22.33	22.39			23.5	2
20	16QAM	50	49	22.55	22.35	22.40				
20	16QAM	100	0	22.51	22.25	22.28				
20	64QAM	1	0	22.29	22.06	22.05			23.5	2
20	64QAM	1	99	22.26	22.00	22.11				
20	64QAM	50	0	21.90	21.31	21.38			22.5	3
20	64QAM	50	24	21.55	21.31	21.40				
20	64QAM	50	49	21.54	21.35	21.42				
20	256QAM	1	0	21.50	21.27	21.27				
20	256QAM	1	49	19.05	19.33	19.23				
20	256QAM	1	99	19.38	19.45	19.38				
20	256QAM	50	0	19.32	19.05	19.03			20.5	5
20	256QAM	50	24	19.38	19.27	19.37				
20	256QAM	50	49	19.36	19.11	19.24				
20	256QAM	100	0	19.32	19.40	19.42				
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.61	24.30	24.32			25.5	0
15	QPSK	1	37	24.66	24.33	24.39				
15	QPSK	1	74	24.60	24.34	24.34				
15	QPSK	50	0	23.61	23.31	23.34				
15	QPSK	50	20	23.52	23.24	23.28			24.5	1
15	QPSK	50	39	23.55	23.23	23.29				
15	QPSK	75	0	23.51	23.18	23.24				
15	16QAM	1	0	23.51	23.24	23.29			24.5	1
15	16QAM	1	37	23.57	23.31	23.33				
15	16QAM	1	74	23.49	23.28	23.38				
15	16QAM	50	0	22.44	22.18	22.30				
15	16QAM	50	20	22.45	22.04	22.09			23.5	2
15	16QAM	50	39	22.54	22.18	22.29				
15	16QAM	75	0	22.55	22.23	22.28				
15	64QAM	1	0	22.29	22.04	22.09			23.5	2
15	64QAM	1	37	22.30	22.06	22.12				
15	64QAM	1	74	21.54	21.25	21.33			22.5	3
15	64QAM	50	0	21.52	21.24	21.30				
15	64QAM	50	20	19.32	19.08	19.37			20.5	5
15	64QAM	50	37	19.44	19.21	19.20				
15	256QAM	1	0	19.25	19.27	19.27				
15	256QAM	1	49	19.25	19.08	19.00			20.5	5
15	256QAM	1	99	19.25	19.08	19.00				
15	256QAM	50	0	19.15	19.21	19.22			20.5	5
15	256QAM	50	20	19.15	19.21	19.22				
15	256QAM	50	39	19.35	19.05	19.24				
15	256QAM	100	0	19.42	19.02	19.28				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.50	24.31	24.43			25.5	0
10	QPSK	1	25	24.57	24.27	24.31				
10	QPSK	1	50	24.55	24.29	24.34				
10	QPSK	25	0	23.56	23.27	23.37			24.5	1
10	QPSK	25	12	23.46	23.17	23.34				
10	QPSK	50	0	23.52	23.30	23.42				
10	16QAM	1	0	23.55	23.24	23.31			24.5	1
10	16QAM	1	25	23.55	23.24	23.31				
10	16QAM	1	49	23.69	23.24	23.36				
10	16QAM	25	0	22.57	22.27	22.37			23.5	2
10	16QAM	25	12	22.57						



Band 38_Ant 5											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MRR (dB)
Channel											
Frequency (MHz)											
30	QPSK	1	0	16.92	16.92	16.92					
30	QPSK	1	49	16.91	16.87	16.84				18	0
30	QPSK	1	99	16.94	17.03	17.00					
30	QPSK	50	0	17.11	16.93	17.00					
30	QPSK	50	49	17.03	16.84	16.85				18	0
30	QPSK	100	0	17.02	16.95	16.97					
30	16QAM	1	0	17.06	17.05	17.05					
30	16QAM	1	49	17.14	17.13	17.10				18	0
30	16QAM	1	99	17.18	17.16	17.15					
30	16QAM	50	0	17.04	17.03	17.00					
30	16QAM	50	49	17.07	16.98	17.00				18	0
30	16QAM	100	0	17.06	16.95	16.97					
30	16QAM	100	49	17.00	16.95	16.95					
30	64QAM	1	0	16.98	17.01	16.94					
30	64QAM	1	49	17.02	17.00	16.99				18	0
30	64QAM	1	99	17.13	17.01	17.00					
30	64QAM	50	0	17.01	16.93	17.04					
30	64QAM	50	49	17.07	17.04	17.03				18	0
30	64QAM	100	0	17.03	17.04	16.97					
30	64QAM	100	49	16.96	16.97	16.96					
30	256QAM	1	0	16.90	16.95	16.97					
30	256QAM	1	49	16.94	16.86	16.89				18	0
30	256QAM	1	99	17.09	17.00	17.00					
30	256QAM	50	0	16.86	16.81	16.86					
30	256QAM	50	49	16.99	16.87	16.91				18	0
30	256QAM	100	0	16.96	16.95	16.96					
30	256QAM	100	49	16.87	16.79	16.88					
Channel											
Frequency (MHz)											
15	QPSK	1	0	237.5	239.1	241.2					
15	16QAM	1	0	16.87	16.78	16.74				18	0
15	16QAM	1	37	16.84	16.79	16.80					
15	16QAM	1	74	17.11	16.89	16.83					
15	16QAM	36	0	17.03	16.89	16.94					
15	16QAM	36	20	16.87	17.02	16.94				18	0
15	16QAM	36	38	16.97	16.94	17.02					
15	16QAM	75	0	17.06	17.05	17.05					
15	16QAM	75	1	17.01	17.03	17.07				18	0
15	16QAM	75	1	17.04	17.00	17.00					
15	16QAM	75	37	17.07	16.92	16.93					
15	16QAM	36	0	16.99	16.89	16.96					
15	16QAM	36	20	16.89	16.98	16.94				18	0
15	16QAM	36	38	16.99	16.98	17.03					
15	16QAM	75	0	16.94	16.93	16.89					
15	64QAM	1	37	17.03	16.95	16.97				18	0
15	64QAM	1	74	17.05	16.97	17.00					
15	64QAM	36	0	17.01	16.93	17.01					
15	64QAM	36	20	17.01	16.94	16.96					
15	64QAM	36	38	16.99	16.93	16.91				18	0
15	256QAM	1	0	16.70	16.91	16.84					
15	256QAM	1	37	16.93	16.89	16.86				18	0
15	256QAM	1	74	17.11	16.86	16.86					
15	256QAM	36	0	16.99	16.85	16.91					
15	256QAM	36	20	16.85	16.87	16.85				18	0
15	256QAM	36	38	16.83	16.83	16.79					
15	256QAM	75	0	16.94	16.93	16.92					
Channel											
Frequency (MHz)											
10	QPSK	1	0	379.0	380.0	380.0					
10	QPSK	1	25	16.87	16.76	16.80				18	0
10	QPSK	1	49	16.91	16.82	16.82					
10	QPSK	25	0	17.02	16.90	16.91					
10	QPSK	25	12	16.86	17.02	16.94				18	0
10	QPSK	25	25	16.96	16.89	16.89					
10	QPSK	50	0	16.99	16.90	16.94					
10	16QAM	1	0	17.06	17.05	17.05					
10	16QAM	1	49	17.17	17.12	17.08				18	0
10	16QAM	25	0	16.91	17.03	16.98					
10	16QAM	25	12	17.00	16.91	17.07					
10	16QAM	25	25	17.02	16.98	17.00				18	0
10	16QAM	50	0	16.99	16.94	16.96					
10	64QAM	1	0	16.94	16.96	16.84					
10	64QAM	1	49	17.03	17.00	17.07				18	0
10	64QAM	25	0	17.01	16.92	17.03					
10	64QAM	25	12	17.07	16.95	17.00					
10	64QAM	25	25	17.02	16.95	16.93				18	0
10	64QAM	50	0	16.91	16.92	16.86					
10	64QAM	50	49	16.91	16.87	16.86					
10	256QAM	1	0	16.84	16.85	16.84					
10	256QAM	1	25	16.87	16.76	16.79				18	0
10	256QAM	1	49	16.94	16.85	16.86					
10	256QAM	25	0	16.84	16.76	16.87					
10	256QAM	25	12	16.82	16.84	16.82				18	0
10	256QAM	25	25	16.75	16.79	16.85					
10	256QAM	50	0	16.82	16.75	16.81					

Band 41_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MRR (dB)
Channel											
Frequency (MHz)											
30	QPSK	1	0	23.04	23.24	23.38	23.24	23.09			
30	QPSK	1	49	23.10	23.31	23.35	23.25	23.18		24	0
30	QPSK	50	0	23.15	23.48	23.47	23.33	23.25			
30	QPSK	50	49	22.15	22.42	22.41	22.36	22.21			
30	QPSK	100	0	22.11	22.27	22.27	22.17	22.11		23	1
30	QPSK	100	49	22.12	22.38	22.37	22.28	22.13			
30	16QAM	1	0	22.11	22.36	22.35	22.25	22.12			
30	16QAM	1	49	22.12	22.24	22.26	22.14	22.14		23	1
30	16QAM	1	99	22.13	22.27	22.26	22.21	22.08			
30	16QAM	50	0	21.09	21.26	21.45	21.24	21.22			
30	16QAM	50	49	21.11	21.31	21.43	21.31	21.19		22	2
30	16QAM	100	0	21.15	21.25	21.26	21.17	21.06			
30	16QAM	100	49	21.15	21.25	21.26	21.17	21.06			
30	64QAM	1	0	20.92	20.96	21.18	20.96	20.85			
30	64QAM	1	49	20.92	20.98	21.03	20.92	20.87		22	2
30	64QAM	1	99	20.80	20.88	21.03	20.92	20.82			
30	64QAM	50	0	20.08	20.20	20.39	20.21	20.16			
30	64QAM	50	49	20.08	20.25	20.38	20.25	20.14		21	3
30	64QAM	100	0	20.13	20.20	20.33	20.23	20.13			
30	64QAM	100	49	20.08	20.24	20.31	20.18	20.17			
30	256QAM	1	0	17.80	17.69	17.94	17.72	17.85			
30	256QAM	1	49	17.80	17.88	17.90	17.85	17.70		19	5
30	256QAM	1	99	17.63	17.83	17.88	17.80	17.71			
30	256QAM	50	0	17.80	17.75	17.83	17.83	17.88			
30	256QAM	50	49	17.71	17.74	17.81	17.85	17.86		19	5
30	256QAM	100	0	17.82	17.71	17.82	17.85	17.74			
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.12	23.31	23.45	23.24	23.27			
15	QPSK	1	37	23.14	23.26	23.35	23.27	23.18		24.00	0
15	QPSK	1	74	23.11	23.23	23.42	23.22	23.06			
15	QPSK	36	0	23.16	23.16	23.28	23.19	23.10			
15	QPSK	36	20	23.14	23.24	23.35	23.19	23.24			
15	QPSK	36	39	23.05	22.18	22.38	22.27	22.07			
15	QPSK	75	0	22.10	22.33	22.43	22.35	22.22			
15	16QAM	1	0	22.11	22.32	22.41	22.30	22.17			
15	16QAM	1	37	22.18	22.14	22.22	22.26	22.21		23	1
15	16QAM	1	74	23.13	23.24	23.28	23.22	23.16			
15	16QAM	36	0	21.14	21.38	21.51	21.30	21.15			
15	16QAM	36	20	21.07	21.27	21.39	21.27	21.15			
15	16QAM	36	39	21.18	21.22	21.28	21.37	21.20		22	2
15	16QAM	75	0	21.16	21.25	21.40	21.26	21.10			
15	64QAM	1	37	20.86	20.87	21.00	20.82	20.85			
15	64QAM	1	74	20.74	21.03	21.05	20.92	20.75			
15	64QAM	36	0	20.95	20.92	20.49	20.14	20.24			
15	64QAM	36	20	20.15	20.30	20.38	20.23	20.08		21	3
15	64QAM	36	39	20.09	20.22	20.27	20.18	20.07			
15	256QAM	1	0	17.82	17.71	17.83	17.78	17.88			
15	256QAM	1	37	17.68	17.80	17.89	17.81	17.81		19	5
15	256QAM	1	74	17.89	17.85	17.88	17.88	17.71			
15	256QAM	36	0	17.79	17.87	17.86	17.83	17.84			
15	25										



Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MPE (dB)
Channel				39750	40165	40620	41055	41460		
Frequency (MHz)										
30	QPSK	1	0	19.63	19.79	20.01	19.93	19.99	20.2	0
30	QPSK	1	49	19.64	19.80	20.07	19.85	19.98		
30	QPSK	1	99	19.71	20.19	20.14	20.11	20.07		
30	QPSK	50	0	19.68	20.18	20.17	19.87	20.04		
30	QPSK	50	24	19.67	19.80	19.85	19.90	19.93	20.2	0
30	QPSK	50	49	19.52	19.80	19.85	19.90	19.93		
30	QPSK	100	0	19.56	20.02	20.00	19.91	20.01		
30	HQAM	1	0	19.62	19.83	19.83	19.83	20.06		
30	HQAM	1	49	19.52	19.83	19.85	19.97	20.00		
30	HQAM	1	99	19.69	20.07	19.77	19.97	19.93		
30	HQAM	50	0	19.59	19.93	19.85	19.90	20.04		
30	HQAM	50	24	19.63	20.02	19.85	19.84	20.03	20.2	0
30	HQAM	50	49	19.56	19.81	19.85	19.86	19.86		
30	HQAM	100	0	19.60	19.84	19.85	19.91	19.97		
30	HQAM	1	0	19.66	19.85	19.82	19.70	19.66	20.2	0
30	HQAM	1	49	19.64	19.83	19.81	19.83	19.91		
30	HQAM	1	99	19.82	19.89	19.81	19.86	19.72		
30	HQAM	50	0	19.55	19.80	19.76	19.80	20.03	20.2	0
30	HQAM	50	24	19.62	19.82	19.85	19.85	20.00		
30	HQAM	50	49	19.84	19.89	19.85	19.80	19.94		
30	HQAM	100	0	19.62	19.83	19.85	19.89	20.00		
30	SSBQAM	1	0	19.78	19.83	19.85	19.77	19.59		
30	SSBQAM	1	49	19.88	19.83	19.85	19.89	19.84	20.2	0
30	SSBQAM	1	99	19.66	19.81	19.84	19.79	19.82		
30	SSBQAM	50	0	19.70	19.88	19.83	19.83	19.89		
30	SSBQAM	50	24	19.77	19.70	19.81	19.87	19.79	20.2	0
30	SSBQAM	50	49	19.82	19.84	19.82	19.77	19.72		
30	SSBQAM	100	0	19.57	19.89	19.85	19.83	19.77		
Channel				2501.5	2548.3	2593	2637.8	2682.5		
Frequency (MHz)										
15	QPSK	1	0	19.59	19.71	19.96	19.88	19.90	20.2	0
15	QPSK	1	37	19.59	19.82	20.00	19.84	19.90		
15	QPSK	1	74	19.57	20.12	20.09	20.00	20.00		
15	QPSK	36	0	19.67	20.19	20.17	19.87	20.01		
15	QPSK	36	20	19.56	19.70	20.01	19.90	19.92	20.2	0
15	QPSK	36	39	19.52	19.74	19.91	19.89	19.85		
15	QPSK	75	0	19.65	19.80	19.85	19.82	19.83		
15	HQAM	1	0	19.81	19.78	19.80	19.83	19.86		
15	HQAM	1	37	19.51	19.80	19.74	19.86	19.99	20.2	0
15	HQAM	1	74	19.68	19.87	19.81	19.87	19.83		
15	HQAM	36	0	19.59	19.87	19.79	19.85	19.87		
15	HQAM	36	20	19.57	19.89	19.85	19.84	19.99		
15	HQAM	36	39	19.60	19.83	19.82	19.91	19.88	20.2	0
15	HQAM	75	0	19.54	19.87	19.81	19.93	19.88		
15	HQAM	75	0	19.64	19.81	19.84	19.89	19.87		
15	HQAM	1	37	19.63	19.81	19.87	19.83	19.82	20.2	0
15	HQAM	1	74	19.47	19.81	19.75	19.79	19.87		
15	HQAM	36	20	19.53	19.82	19.84	19.74	19.91	20.2	0
15	HQAM	36	39	19.64	19.87	19.85	19.87	19.84		
15	HQAM	75	0	19.60	19.72	19.80	19.80	19.85		
15	SSBQAM	1	0	19.67	19.82	19.84	19.76	19.81	20.2	0
15	SSBQAM	1	37	19.84	19.81	19.82	19.89	19.84		
15	SSBQAM	1	74	19.55	19.82	19.72	19.78	19.81		
15	SSBQAM	36	0	19.65	19.86	19.86	19.86	19.86		
15	SSBQAM	36	20	19.77	19.59	19.75	19.85	19.71	20.2	0
15	SSBQAM	36	39	19.58	19.84	19.80	19.71	19.89		
15	SSBQAM	75	0	19.67	19.89	19.82	19.72	19.78		
Channel				39700	40165	40620	41060	41460		
Frequency (MHz)										
10	QPSK	1	0	19.59	19.75	20.00	19.87	19.89	20.2	0
10	QPSK	1	25	19.64	19.87	20.00	19.74	19.87		
10	QPSK	1	50	19.66	19.89	20.00	19.84	19.86		
10	QPSK	25	0	19.52	20.15	20.06	19.84	19.86		
10	QPSK	25	12	19.61	19.80	20.06	19.82	19.87	20.2	0
10	QPSK	25	37	19.61	19.79	19.87	19.83	19.91		
10	QPSK	50	0	19.54	20.01	19.88	19.88	20.01		
10	HQAM	1	0	19.61	19.86	19.77	19.87	20.06		
10	HQAM	1	25	19.50	19.87	19.78	19.87	19.91	20.2	0
10	HQAM	1	49	19.63	19.88	19.87	19.90	19.91		
10	HQAM	25	0	19.49	19.87	19.78	19.84	20.00		
10	HQAM	25	12	19.87	20.00	19.78	19.86	19.89	20.2	0
10	HQAM	25	26	19.60	19.80	19.87	19.86	19.97		
10	HQAM	50	0	19.50	19.89	19.80	19.92	19.88		
10	HQAM	1	0	19.59	19.45	19.81	19.85	19.80	20.2	0
10	HQAM	1	24	19.53	19.88	19.80	19.89	19.87		
10	HQAM	1	49	19.53	19.58	19.85	19.80	19.71		
10	HQAM	25	0	19.44	19.84	19.75	19.89	19.86	20.2	0
10	HQAM	25	12	19.52	19.83	19.83	19.78	20.00		
10	HQAM	25	26	19.88	19.85	19.82	19.86	19.80		
10	HQAM	50	0	19.52	19.79	19.84	19.80	19.93		
10	SSBQAM	1	0	19.72	19.82	19.82	19.81	19.84	20.2	0
10	SSBQAM	1	25	19.83	19.81	19.85	19.88	19.88		
10	SSBQAM	1	49	19.81	19.80	19.81	19.76	19.85		
10	SSBQAM	25	0	19.64	19.84	19.85	19.40	19.84	20.2	0
10	SSBQAM	25	12	19.71	19.86	19.78	19.82	19.78		
10	SSBQAM	25	26	19.54	19.84	19.85	19.70	19.84		
10	SSBQAM	50	0	19.49	19.59	19.85	19.77	19.73		
Channel				2488.5	2545.8	2599	2640.0	2687.5		
Frequency (MHz)										
5	QPSK	1	0	19.62	19.76	19.88	19.87	19.89	20.2	0
5	QPSK	1	19	19.53	19.85	19.80	19.74	19.80		
5	QPSK	1	24	19.54	20.14	20.04	20.00	20.05		
5	QPSK	12	0	19.62	20.11	20.06	19.95	20.03		
5	QPSK	12	7	19.57	19.73	20.00	19.85	19.86	20.2	0
5	QPSK	12	13	19.51	19.72	19.86	19.89	19.88		
5	QPSK	25	0	19.46	19.84	19.80	19.85	19.86		
5	HQAM	1	0	19.65	19.77	19.78	19.88	20.05		
5	HQAM	1	12	19.48	19.81	19.78	19.91	19.93	20.2	0
5	HQAM	1	24	19.81	20.00	19.86	19.84	19.91		
5	HQAM	12	0	19.51	19.86	19.78	19.81	20.02		
5	HQAM	12	7	19.63	19.82	19.85	19.87	19.87	20.2	0
5	HQAM	12	13	19.62	19.82	19.82	19.81	19.89		
5	HQAM	25	0	19.57	19.88	19.80	19.84	19.94		
5	HQAM	1	0	19.56	19.84	19.81	19.85	19.87		
5	HQAM	1	12	19.56	19.87	19.80	19.81	19.85	20.2	0
5	HQAM	1	24	19.56	19.82	19.85	19.88	19.70		
5	HQAM	12	0	19.47	19.86	19.79	19.90	19.96		
5	HQAM	12	7	19.54	19.81	19.80	19.85	19.99	20.2	0
5	HQAM	12	13	19.54	19.89	19.80	19.87	19.89		
5	HQAM	25	0	19.53	19.72	19.78	19.80	19.86		
5	SSBQAM	1	0	19.71	19.61	19.80	19.73	19.82	20.2	0
5	SSBQAM	1	12	19.76	19.84	19.82	19.80	19.83		
5	SSBQAM	1	24	19.87	19.87	19.71	19.71	19.76		
5	SSBQAM	12	0	19.60	19.88	19.81	19.81	19.81	20.2	0
5	SSBQAM	12	7	19.74	19.86	19.81	19.82	19.78		
5	SSBQAM	12	13	19.58	19.84	19.85	19.86	19.79		
5	SSBQAM	25	0	19.54	19.85	19.84	19.76	19.77		



DS1

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM 1 Tx slot	32.78	32.84	32.77	34.00	23.78	23.84	23.77	25.00
GPRS 1 Tx slots	33.03	33.01	33.00	34.00	24.03	24.01	24.00	25.00
GPRS 2 Tx slots	29.76	29.75	29.78	31.00	23.78	23.75	23.78	25.00
GPRS 3 Tx slots	27.74	27.85	27.81	29.20	23.48	23.59	23.55	24.94
GPRS 4 Tx slots	26.26	26.33	26.32	28.00	23.26	23.33	23.32	25.00
EDGE 1 Tx slot	27.16	27.09	27.11	28.00	18.16	18.09	18.11	19.00
EDGE 2 Tx slots	23.94	23.91	24.19	25.00	17.94	17.91	18.19	19.00
EDGE 3 Tx slots	22.07	22.02	22.31	23.20	17.81	17.76	18.05	18.94
EDGE 4 Tx slots	20.58	20.56	20.67	22.00	17.58	17.56	17.67	19.00

GSM850_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM 1 Tx slot	32.38	32.30	32.22	33.50	23.38	23.30	23.22	24.50
GPRS 1 Tx slots	32.32	32.35	32.20	33.50	23.32	23.35	23.20	24.50
GPRS 2 Tx slots	28.76	28.82	28.84	30.50	22.76	22.82	22.84	24.50
GPRS 3 Tx slots	26.78	27.00	26.89	28.70	22.52	22.74	22.63	24.44
GPRS 4 Tx slots	25.61	25.76	25.66	27.50	22.61	22.76	22.66	24.50
EDGE 1 Tx slot	26.29	26.00	26.02	27.50	17.29	17.00	17.02	18.50
EDGE 2 Tx slots	22.97	23.05	23.00	24.50	16.97	17.05	17.00	18.50
EDGE 3 Tx slots	21.33	21.19	21.11	22.70	16.03	15.89	15.86	18.44
EDGE 4 Tx slots	19.91	19.79	19.84	21.50	16.91	16.79	16.84	18.50

GSM1900_Ant 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	881	810		512	881	810	
TX Channel	512	881	810	Limit	512	881	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM 1 Tx slot	28.90	28.91	28.75	29.50	19.90	19.91	19.75	20.50
GPRS 1 Tx slot	28.95	28.90	28.74	29.50	19.95	19.90	19.74	20.50
GPRS 2 Tx slots	25.70	25.74	25.63	26.50	19.70	19.74	19.63	20.50
GPRS 3 Tx slots	23.80	23.82	23.74	24.70	19.54	19.56	19.48	20.44
GPRS 4 Tx slots	22.41	22.47	22.35	23.50	19.41	19.47	19.35	20.50
EDGE 1 Tx slot	24.88	24.85	24.73	25.00	15.88	15.85	15.73	16.00
EDGE 2 Tx slots	21.76	21.79	21.76	22.00	15.76	15.79	15.76	16.00
EDGE 3 Tx slots	19.98	20.05	19.94	20.20	15.72	15.79	15.68	15.94
EDGE 4 Tx slots	18.45	18.34	18.20	19.00	15.45	15.34	15.20	16.00

GSM1900_Ant 5	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	881	810		512	881	810	
TX Channel	512	881	810	Limit	512	881	810	Limit
Frequency (MHz)	1850.2	1880	1909.8	(dBm)	1850.2	1880	1909.8	(dBm)
GSM 1 Tx slot	27.98	27.97	27.84	29.50	18.98	18.97	18.84	20.50
GPRS 1 Tx slot	28.10	28.09	27.89	29.50	19.10	19.09	18.89	20.50
GPRS 2 Tx slots	24.88	24.85	24.83	26.50	18.88	18.85	18.83	20.50
GPRS 3 Tx slots	22.95	22.90	22.95	24.70	18.69	18.64	18.69	20.44
GPRS 4 Tx slots	21.53	21.51	21.64	23.50	18.53	18.51	18.64	20.50
EDGE 1 Tx slot	24.19	24.17	24.21	25.00	15.19	15.17	15.21	16.00
EDGE 2 Tx slots	21.57	21.55	21.81	22.00	15.57	15.55	15.81	16.00
EDGE 3 Tx slots	19.19	19.15	19.42	20.20	14.93	14.89	15.16	15.94
EDGE 4 Tx slots	17.88	17.79	17.93	19.00	14.86	14.79	14.93	16.00

Band	WCDMA II_Ant 2			Tune-up Limit (dBm)	WCDMA II_Ant 5			Tune-up Limit (dBm)	
	9262	9400	9538		9262	9400	9538		
TX Channel	9262	9400	9538	Limit	9262	9400	9538	Limit	
Rx Channel	9662	9800	9938	(dBm)	9662	9800	9938	(dBm)	
Frequency (MHz)	1852.4	1880	1907.6		1852.4	1880	1907.6		
3GPP Rel 99	AMR 12.2Kbps	19.92	19.92	19.88	21.00	20.15	20.14	20.03	22.00
3GPP Rel 99	RMC 12.2Kbps	19.93	19.94	19.89	21.00	20.16	20.17	20.06	22.00
3GPP Rel 6	HSDPA Subtest-1	19.05	18.91	18.81	20.00	19.10	19.02	19.04	21.00
3GPP Rel 6	HSDPA Subtest-2	19.04	18.85	18.90	20.00	19.17	19.12	19.09	21.00
3GPP Rel 6	HSDPA Subtest-3	18.36	18.38	18.34	19.50	18.73	18.58	18.60	20.50
3GPP Rel 6	HSDPA Subtest-4	18.41	18.42	18.38	19.50	18.70	18.61	18.51	20.50
3GPP Rel 8	DC-HSDPA Subtest-1	18.91	18.83	18.78	20.00	19.19	19.14	19.08	21.00
3GPP Rel 8	DC-HSDPA Subtest-2	19.03	18.93	18.90	20.00	19.09	19.16	19.02	21.00
3GPP Rel 8	DC-HSDPA Subtest-3	18.44	18.31	18.33	19.50	18.70	18.61	18.57	20.50
3GPP Rel 8	DC-HSDPA Subtest-4	18.41	18.39	18.23	19.50	18.61	18.70	18.57	20.50
3GPP Rel 6	HSUPA Subtest-1	18.89	18.90	18.82	20.00	19.12	19.05	19.11	21.00
3GPP Rel 6	HSUPA Subtest-2	17.00	16.90	16.79	18.00	17.24	17.12	17.03	19.00
3GPP Rel 6	HSUPA Subtest-3	17.88	17.79	17.91	19.00	18.27	18.05	18.01	20.00
3GPP Rel 6	HSUPA Subtest-4	16.95	16.98	16.79	18.00	17.18	17.16	17.07	19.00
3GPP Rel 6	HSUPA Subtest-5	19.03	18.85	18.85	20.00	19.08	19.08	19.07	21.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.88	15.96	15.81	17.50	16.29	16.40	16.42	18.50

Band	WCDMA IV_Ant 2			Tune-up Limit (dBm)	WCDMA IV_Ant 5			Tune-up Limit (dBm)	
	1312	1413	1513		1312	1413	1513		
TX Channel	1312	1413	1513	Limit	1312	1413	1513	Limit	
Rx Channel	1537	1638	1738	(dBm)	1537	1638	1738	(dBm)	
Frequency (MHz)	1722.4	1722.6	1722.6		1722.4	1722.4	1722.6		
3GPP Rel 99	AMR 12.2Kbps	21.07	21.11	21.04	22.00	20.27	20.36	20.34	22.00
3GPP Rel 99	RMC 12.2Kbps	21.09	21.12	21.06	22.00	20.28	20.39	20.34	22.00
3GPP Rel 6	HSDPA Subtest-1	20.07	20.14	20.19	21.00	19.36	19.39	19.39	21.00
3GPP Rel 6	HSDPA Subtest-2	20.03	20.19	20.13	21.00	19.23	19.53	19.47	21.00
3GPP Rel 6	HSDPA Subtest-3	19.53	19.72	19.76	20.50	18.85	19.06	18.93	20.50
3GPP Rel 6	HSDPA Subtest-4	19.53	19.65	19.62	20.50	18.78	18.88	18.94	20.50
3GPP Rel 6	DC-HSDPA Subtest-1	20.03	20.25	20.23	21.00	19.37	19.58	19.37	21.00
3GPP Rel 8	DC-HSDPA Subtest-2	20.03	20.22	20.12	21.00	19.22	19.51	19.40	21.00
3GPP Rel 8	DC-HSDPA Subtest-3	19.60	19.63	19.65	20.50	18.88	18.95	18.77	20.50
3GPP Rel 8	DC-HSDPA Subtest-4	19.52	19.79	19.57	20.50	18.88	18.94	18.79	20.50
3GPP Rel 6	HSUPA Subtest-1	20.06	20.19	20.26	21.00	19.33	19.50	19.39	21.00
3GPP Rel 6	HSUPA Subtest-2	18.03	18.31	18.07	19.00	17.36	17.58	17.45	19.00
3GPP Rel 6	HSUPA Subtest-3	19.15	19.24	19.13	20.00	18.24	18.54	18.47	20.00
3GPP Rel 6	HSUPA Subtest-4	18.09	18.25	18.12	19.00	17.20	17.56	17.36	19.00
3GPP Rel 6	HSUPA Subtest-5	20.11	20.21	20.18	21.00	19.28	19.54	19.33	21.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.08	17.25	17.17	18.50	16.80	16.84	16.82	18.50

Band	WCDMA V_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 1			Tune-up Limit (dBm)	
	4132	4182	4233		4132	4182	4233		
TX Channel	4132	4182	4233	Limit	4132	4182	4233	Limit	
Rx Channel	4357	4407	4458	(dBm)	4357	4407	4458	(dBm)	
Frequency (MHz)	826.4	836.4	846.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	22.77	22.81	22.76	24.00	20.44	20.40	20.38	22.00
3GPP Rel 99	RMC 12.2Kbps	22.79	22.83	22.79	24.00	20.45	20.47	20.40	22.00
3GPP Rel 6	HSDPA Subtest-1	21.89	21.84	21.74	23.00	19.44	19.50	19.41	21.00
3GPP Rel 6	HSDPA Subtest-2	21.70	21.75	21.74	23.00	19.52	19.45	19.34	21.00
3GPP Rel 6	HSDPA Subtest-3	21.25	21.31	21.40	22.50	18.99	18.96	18.96	20.50
3GPP Rel 6	HSDPA Subtest-4	21.11	21.29	21.39	22.50	18.86	18.97	18.88	20.50
3GPP Rel 6	DC-HSDPA Subtest-1	21.07	21.85	21.85	23.00	19.42	19.39	19.42	21.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.58	21.76	21.74	23.00	19.38	19.35	19.43	21.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.11	21.36	21.40	22.50	18.88	18.82	18.83	20.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.08	21.27	21.20	22.50	18.81	18.83	18.80	20.50
3GPP Rel 6	HSUPA Subtest-1	21.76	21.95	21.89	23.00	16.38	16.43	16.34	21.00
3GPP Rel 6	HSUPA Subtest-2	19.58	19.94	19.77	21.00	14.36	14.46	14.30	19.00
3GPP Rel 6	HSUPA Subtest-3	20.78	20.83	20.73	22.00	15.38	15.47	15.42	20.00
3GPP Rel 6	HSUPA Subtest-4	19.60	19.85	19.72	21.00	16.02	15.96		



Band 2_Ant 2														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low (dBm)	Power High (dBm)	Power Max (dBm)	Turn-up (dB)	APRS (dB)						
Channel									18000	18050	18100	Turn-up (dB)	APRS (dB)	
Frequency (MHz)														
20	QPSK	5	0	21.74	21.74	21.74								
20	QPSK	1	49	21.79	21.72	21.69	22.5	0						
20	QPSK	5	0	21.83	21.83	21.83								
20	QPSK	5	0	21.89	21.79	21.78								
20	QPSK	5	24	21.84	21.76	21.76	22.5	0						
20	QPSK	5	0	21.91	21.72	21.72								
20	QPSK	15	0	21.92	21.82	21.82								
20	HQAM	1	49	21.89	21.86	21.86	22.5	0						
20	HQAM	1	99	21.72	21.58	21.57								
20	HQAM	5	0	21.74	21.64	21.64	22.5	0						
20	HQAM	5	24	21.74	21.63	21.63								
20	HQAM	5	0	21.86	21.58	21.58								
20	HQAM	1	0	21.79	21.79	21.74								
20	HQAM	1	99	21.79	21.83	21.72	22.5	0						
20	HQAM	5	0	21.76	21.62	21.62								
20	HQAM	5	24	20.87	20.81	20.84	21.5	1						
20	HQAM	5	50	20.73	20.50	20.59								
20	HQAM	5	0	20.76	20.50	20.59								
20	HQAM	1	0	18.91	18.93	18.89								
20	HQAM	5	0	18.78	18.92	18.89	19.5	3						
20	HQAM	1	99	18.86	18.76	18.76								
20	HQAM	5	0	17.91	17.86	17.84								
20	HQAM	5	0	17.88	17.84	17.84								
20	HQAM	5	50	17.92	17.75	17.79	19.5	3						
20	HQAM	5	0	17.90	17.85	17.85								
Channel														
Frequency (MHz)									18015	18060	18120	Turn-up (dB)	APRS (dB)	
15	QPSK	1	0	21.69	21.74	21.74								
15	QPSK	1	97	21.78	21.66	21.64	22.5	0						
15	QPSK	5	0	21.83	21.86	21.86								
15	QPSK	5	0	21.83	21.76	21.75								
15	QPSK	5	24	21.77	21.71	21.69	22.5	0						
15	QPSK	5	0	21.81	21.82	21.82								
15	QPSK	75	0	21.82	21.71	21.68								
15	HQAM	1	97	21.62	21.59	21.60	22.5	0						
15	HQAM	1	74	21.66	21.50	21.59								
15	HQAM	5	0	21.72	21.62	21.62								
15	HQAM	5	24	21.73	21.57	21.52	22.5	0						
15	HQAM	5	0	21.76	21.62	21.62								
15	HQAM	5	0	21.68	21.50	21.51								
15	HQAM	1	0	21.76	21.77	21.69								
15	HQAM	1	94	21.77	21.57	21.59	22.5	0						
15	HQAM	5	0	21.80	21.60	21.60								
15	HQAM	5	24	21.80	21.59	21.59								
15	HQAM	5	0	21.84	21.62	21.62								
15	HQAM	5	24	21.84	21.59	21.59								
15	HQAM	5	0	21.86	21.62	21.62								
15	HQAM	5	24	21.86	21.59	21.59								
15	HQAM	5	0	21.88	21.62	21.62								
15	HQAM	5	24	21.88	21.59	21.59								
15	HQAM	5	0	21.90	21.62	21.62								
15	HQAM	5	24	21.90	21.59	21.59								
15	HQAM	5	0	21.92	21.62	21.62								
15	HQAM	5	24	21.92	21.59	21.59								
15	HQAM	5	0	21.94	21.62	21.62								
15	HQAM	5	24	21.94	21.59	21.59								
15	HQAM	5	0	21.96	21.62	21.62								
15	HQAM	5	24	21.96	21.59	21.59								
15	HQAM	5	0	21.98	21.62	21.62								
15	HQAM	5	24	21.98	21.59	21.59								
15	HQAM	5	0	22.00	21.62	21.62								
15	HQAM	5	24	22.00	21.59	21.59								
15	HQAM	5	0	22.02	21.62	21.62								
15	HQAM	5	24	22.02	21.59	21.59								
15	HQAM	5	0	22.04	21.62	21.62								
15	HQAM	5	24	22.04	21.59	21.59								
15	HQAM	5	0	22.06	21.62	21.62								
15	HQAM	5	24	22.06	21.59	21.59								
15	HQAM	5	0	22.08	21.62	21.62								
15	HQAM	5	24	22.08	21.59	21.59								
15	HQAM	5	0	22.10	21.62	21.62								
15	HQAM	5	24	22.10	21.59	21.59								
15	HQAM	5	0	22.12	21.62	21.62								
15	HQAM	5	24	22.12	21.59	21.59								
15	HQAM	5	0	22.14	21.62	21.62								
15	HQAM	5	24	22.14	21.59	21.59								
15	HQAM	5	0	22.16	21.62	21.62								
15	HQAM	5	24	22.16	21.59	21.59								
15	HQAM	5	0	22.18	21.62	21.62								
15	HQAM	5	24	22.18	21.59	21.59								
15	HQAM	5	0	22.20	21.62	21.62								
15	HQAM	5	24	22.20	21.59	21.59								
15	HQAM	5	0	22.22	21.62	21.62								
15	HQAM	5	24	22.22	21.59	21.59								
15	HQAM	5	0	22.24	21.62	21.62								
15	HQAM	5	24	22.24	21.59	21.59								
15	HQAM	5	0	22.26	21.62	21.62								
15	HQAM	5	24	22.26	21.59	21.59								
15	HQAM	5	0	22.28	21.62	21.62								
15	HQAM	5	24	22.28	21.59	21.59								
15	HQAM	5	0	22.30	21.62	21.62								
15	HQAM	5	24	22.30	21.59	21.59								
15	HQAM	5	0	22.32	21.62	21.62								
15	HQAM	5	24	22.32	21.59	21.59								
15	HQAM	5	0	22.34	21.62	21.62								
15	HQAM	5	24	22.34	21.59	21.59								
15	HQAM	5	0	22.36	21.62	21.62								
15	HQAM	5	24	22.36	21.59	21.59								
15	HQAM	5	0	22.38	21.62	21.62								
15	HQAM	5	24	22.38	21.59	21.59								
15	HQAM	5	0	22.40	21.62	21.62								
15	HQAM	5	24	22.40	21.59	21.59								
15	HQAM	5	0	22.42	21.62	21.62								
15	HQAM	5	24	22.42	21.59	21.59								
15	HQAM	5	0	22.44	21.62	21.62								
15	HQAM	5	24	22.44	21.59	21.59								
15	HQAM	5	0	22.46	21.62	21.62								
15	HQAM	5	24	22.46	21.59	21.59								
15	HQAM	5	0	22.48	21.62	21.62								
15	HQAM	5	24	22.48	21.59	21.59								







Band 12_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Frame Low 23960	Frame High 23965	Frame High 23130	Turn-up (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	5	0	24.02	24.11	24.11				
10	QPSK	1	25	24.97	24.14	25.00	25.7	0		
10	QPSK	5	49	24.90	24.11	24.90				
10	QPSK	25	0	23.96	24.12	24.07				
10	QPSK	25	12	24.03	24.10	24.04	24.7	1		
10	QPSK	25	49	24.02	24.06	24.04				
10	QPSK	50	0	24.02	24.06	24.04				
10	16QAM	1	25	24.06	24.42	24.15	24.7	1		
10	16QAM	1	49	24.12	24.05	24.16				
10	16QAM	5	0	24.02	24.06	24.05				
10	16QAM	25	12	22.93	22.92	23.14	23.7	2		
10	16QAM	25	49	23.93	23.10	23.09				
10	16QAM	50	0	23.96	23.04	23.07				
10	16QAM	1	0	23.16	23.15	23.23				
10	16QAM	1	49	23.27	23.37	23.45	23.7	2		
10	16QAM	5	0	23.96	23.96	23.94				
10	16QAM	25	12	21.99	22.06	22.14	22.7	3		
10	16QAM	25	25	22.00	22.07	22.11				
10	16QAM	50	0	22.02	22.04	22.04				
10	16QAM	1	0	20.99	20.20	20.20	20.7	5		
10	16QAM	1	49	20.11	20.18	20.18				
10	16QAM	5	0	20.99	20.99	20.97				
10	16QAM	25	12	19.98	19.99	20.00	20.7	5		
10	16QAM	25	25	20.00	20.00	20.02				
10	16QAM	50	0	20.00	20.00	20.01				
Channel										
Frequency (MHz)										
5	QPSK	0	0	24.02	24.09	24.09				
5	QPSK	1	12	24.06	24.14	24.05	25.7	0		
5	QPSK	5	25	24.06	24.06	24.06				
5	QPSK	12	0	23.94	24.06	23.99				
5	QPSK	12	7	23.93	24.01	24.03	24.7	1		
5	QPSK	25	0	23.90	23.94	23.90				
5	16QAM	1	12	24.43	24.24	24.18	24.7	1		
5	16QAM	1	24	24.49	24.28	24.33				
5	16QAM	5	0	24.02	24.07	24.06				
5	16QAM	12	7	22.93	22.95	23.04	23.7	2		
5	16QAM	12	0	22.96	22.96	22.96				
5	16QAM	25	0	22.96	22.96	22.97				
5	16QAM	1	0	22.71	22.02	22.07	23.7	2		
5	16QAM	1	24	22.75	22.07	22.11				
5	16QAM	5	0	22.96	22.96	22.96				
5	16QAM	12	7	21.96	21.98	21.99	22.7	3		
5	16QAM	12	0	21.99	21.99	21.98				
5	16QAM	25	0	21.99	21.99	21.92				
5	16QAM	1	0	20.99	20.00	20.00	20.7	5		
5	16QAM	1	24	20.11	20.02	20.07				
5	16QAM	5	0	20.99	20.99	20.97				
5	16QAM	12	7	19.98	19.99	20.00	20.7	5		
5	16QAM	12	0	19.99	19.99	20.00				
5	16QAM	25	0	19.99	19.99	20.00				
Channel										
Frequency (MHz)										
3	QPSK	0	0	24.02	24.09	24.09				
3	QPSK	1	12	24.06	24.10	24.07	25.7	0		
3	QPSK	5	25	24.06	24.06	24.06				
3	QPSK	12	0	23.92	24.07	23.99				
3	QPSK	12	7	23.91	24.00	24.02	24.7	1		
3	QPSK	15	0	23.86	23.93	23.87				
3	16QAM	1	0	24.24	24.40	24.43	24.7	1		
3	16QAM	1	24	24.33	24.36	24.53				
3	16QAM	5	0	24.02	24.06	24.05				
3	16QAM	12	7	22.93	22.94	23.03	23.7	2		
3	16QAM	12	0	22.96	22.96	22.96				
3	16QAM	25	0	22.96	22.96	22.97				
3	16QAM	1	0	22.70	22.01	22.06	23.7	2		
3	16QAM	1	24	22.77	22.31	22.37				
3	16QAM	5	0	22.96	22.96	22.96				
3	16QAM	12	7	21.96	21.98	21.99	22.7	3		
3	16QAM	12	0	21.99	21.99	21.99				
3	16QAM	25	0	21.99	21.99	21.92				
3	16QAM	1	0	20.99	20.00	20.00	20.7	5		
3	16QAM	1	24	20.11	20.02	20.07				
3	16QAM	5	0	20.99	20.99	20.97				
3	16QAM	12	7	19.98	19.99	20.00	20.7	5		
3	16QAM	12	0	19.99	19.99	20.00				
3	16QAM	25	0	19.99	19.99	20.00				
Channel										
Frequency (MHz)										
1.4	QPSK	0	0	24.02	24.06	24.06				
1.4	QPSK	1	3	24.03	24.07	24.05	25.2	0		
1.4	QPSK	1	5	24.07	24.09	24.05				
1.4	QPSK	3	1	24.04	24.06	24.06				
1.4	QPSK	3	1	24.03	24.06	24.05	24.7	0.5		
1.4	QPSK	6	0	23.99	24.01	24.00				
1.4	QPSK	6	0	23.96	24.01	24.00	24.7	1		
1.4	16QAM	1	0	23.96	24.07	24.04	24.7	1		
1.4	16QAM	1	5	24.06	24.07	24.03				
1.4	16QAM	3	1	23.97	24.06	24.05				
1.4	16QAM	3	1	23.99	23.98	24.05	23.7	2		
1.4	16QAM	6	0	23.96	23.96	23.99				
1.4	16QAM	1	0	23.15	23.26	23.29	23.7	2		
1.4	16QAM	1	5	23.16	23.28	23.29				
1.4	16QAM	3	1	22.97	23.11	23.22	23.7	3		
1.4	16QAM	3	1	22.93	23.01	23.05				
1.4	16QAM	6	0	22.96	22.96	22.96				
1.4	16QAM	1	0	20.99	20.00	20.00	20.7	5		
1.4	16QAM	1	5	20.12	20.04	20.10				
1.4	16QAM	3	1	20.13	20.07	20.10	20.7	4.5		
1.4	16QAM	3	1	20.09	20.09	20.10				
1.4	16QAM	6	0	20.07	20.04	20.08	20.7	5		

Band 12_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Frame Low 23960	Frame High 23965	Frame High 23130	Turn-up (dB)	MPR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.43	24.52	24.54				
10	QPSK	1	25	24.40	24.37	24.38	25.2	0		
10	QPSK	5	0	24.13	24.17	24.18				
10	QPSK	25	12	24.11	24.09	24.10	24.7	0.5		
10	QPSK	25	49	24.13	24.06	24.04				
10	QPSK	50	0	24.03	24.06	24.04				
10	16QAM	1	25	24.02	24.01	24.11	24.7	0.5		
10	16QAM	1	49	24.02	24.02	24.06				
10	16QAM	5	0	23.96	23.96	23.94				
10	16QAM	25	12	22.93	22.94	23.18	23.7	1.5		
10	16QAM	25	49	23.93	23.01	23.00				
10	16QAM	50	0	23.96	23.04	23.11				
10	16QAM	1	0	23.16	23.06	23.04	23.7	1.5		
10	16QAM	1	49	23.26	23.47	23.18				
10	16QAM	5	0	23.96	23.96	23.96				
10	16QAM	25	12	21.96	22.10	22.00	22.7	2.5		
10	16QAM	25	25	22.06	22.09	22.07				
10	16QAM	50	0	22.02	22.04	22.03				
10	16QAM	1	0	20.92	20.20	20.24	20.7	4.5		
10	16QAM	1	49	20.28	20.27	20.31				
10	16QAM	5	0	20.92	20.92	20.94				
10	16QAM	25	12	19.98	19.98	20.00	20.7	4.5		
10	16QAM	25	25	20.00	20.00	20.07				
10	16QAM	50	0	20.00	20.00	20.01				
Channel										
Frequency (MHz)										
5	QPSK	0	0	24.43	24.49	24.54				
5	QPSK	1	12	24.40	24.41	24.48	25.2	0		
5	QPSK	5	25	24.00	24.00	24.00				
5	QPSK	12	7	23.98	24.04	24.07	24.7	0.5		
5	QPSK	25	0	23.91	23.97	23.97				



Band 26_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Frame Low	Frame Mid	Frame High	Time-up (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.73	24.73	24.73				
14	QPSK	1	37	24.73	24.73	24.73	25.7	0		
14	QPSK	1	74	24.73	24.73	24.73				
14	QPSK	36	0	23.81	23.81	23.78				
14	QPSK	36	20	23.77	23.80	23.79	24.7	1		
14	QPSK	36	40	23.72	23.84	23.81				
14	16QAM	1	0	24.02	24.02	24.02				
14	16QAM	1	37	24.02	24.21	24.28	24.7	1		
14	16QAM	1	74	24.11	24.19	24.20				
14	16QAM	36	0	22.74	22.74	22.74				
14	16QAM	36	20	22.79	22.82	22.77	23.7	2		
14	16QAM	36	40	22.77	22.90	22.71				
14	16QAM	75	0	22.78	22.84	22.81				
14	8QAM	1	0	22.77	22.80	22.79				
14	8QAM	1	37	22.80	22.82	22.81	23.7	2		
14	8QAM	1	74	22.77	22.79	22.78				
14	8QAM	36	0	21.80	21.79	21.79				
14	8QAM	36	20	21.84	21.78	21.83	22.7	3		
14	8QAM	36	40	21.79	21.77	21.76				
14	8QAM	75	0	21.82	21.83	21.82				
14	25QAM	1	0	19.97	19.99	19.98				
14	25QAM	1	37	19.97	19.95	19.96	20.7	5		
14	25QAM	1	74	19.98	19.98	19.98				
14	25QAM	36	0	19.98	19.97	19.94				
14	25QAM	36	20	19.97	19.95	19.96	20.7	5		
14	25QAM	36	40	19.98	19.98	19.98				
14	25QAM	75	0	19.92	19.92	19.92				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.71	24.74	24.68				
14	QPSK	1	37	24.78	24.82	24.71	25.7	0		
14	QPSK	1	74	24.84	24.78	24.78				
14	QPSK	36	0	23.82	23.78	23.88				
14	QPSK	36	20	23.78	23.83	23.80	24.7	1		
14	QPSK	36	40	23.82	23.86	23.81				
14	16QAM	1	0	24.28	24.28	24.28				
14	16QAM	1	37	24.28	24.27	24.28	24.7	1		
14	16QAM	1	74	24.28	24.28	24.28				
14	16QAM	36	0	22.81	22.80	22.80				
14	16QAM	36	20	22.72	22.76	22.75	23.7	2		
14	16QAM	36	40	22.75	22.80	22.80				
14	16QAM	75	0	22.81	22.80	22.83				
14	8QAM	1	0	22.87	22.86	22.86				
14	8QAM	1	37	22.89	22.92	22.89	23.7	2		
14	8QAM	1	74	22.87	22.87	22.87				
14	8QAM	36	0	21.78	21.72	21.74	22.7	3		
14	8QAM	36	20	21.77	21.81	21.79				
14	8QAM	36	40	21.82	21.87	21.84				
14	8QAM	75	0	21.82	21.86	21.82				
14	25QAM	1	0	19.71	19.75	19.70				
14	25QAM	1	37	19.71	19.75	19.70	20.7	5		
14	25QAM	1	74	19.71	19.75	19.70				
14	25QAM	36	0	19.72	19.84	19.80				
14	25QAM	36	20	19.77	19.82	19.82	20.7	5		
14	25QAM	36	40	19.81	19.82	19.81				
14	25QAM	75	0	19.82	19.86	19.71				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.73	24.73	24.73				
5	QPSK	1	12	24.74	24.75	24.84	25.7	0		
5	QPSK	1	24	24.78	24.72	24.78				
5	QPSK	12	0	23.77	23.84	23.81				
5	QPSK	12	7	23.78	23.80	23.83	24.7	1		
5	QPSK	12	13	23.84	23.84	23.84				
5	QPSK	36	0	23.83	23.82	23.90				
5	16QAM	1	0	23.77	23.84	24.14	24.7	1		
5	16QAM	1	12	23.81	23.85	24.21				
5	16QAM	1	24	23.85	23.88	24.28				
5	16QAM	12	0	22.88	22.88	22.88				
5	16QAM	12	7	22.87	22.85	22.90	23.7	2		
5	16QAM	12	13	22.92	22.92	22.91				
5	16QAM	36	0	21.86	21.86	21.86				
5	8QAM	1	0	21.85	21.84	21.11	23.7	2		
5	8QAM	1	12	21.86	21.86	21.86				
5	8QAM	1	24	21.82	21.83	21.10				
5	8QAM	12	0	21.78	21.88	21.78				
5	8QAM	12	7	21.83	21.81	21.84	22.7	3		
5	8QAM	12	13	21.79	21.77	21.82				
5	8QAM	36	0	21.74	21.74	21.68				
5	25QAM	1	0	19.40	19.63	19.46				
5	25QAM	1	12	19.44	19.47	19.58	20.7	5		
5	25QAM	1	24	19.45	19.45	19.45				
5	25QAM	12	0	19.44	19.63	19.71				
5	25QAM	12	7	19.62	19.61	19.61	20.7	5		
5	25QAM	12	13	19.62	19.78	19.58				
5	25QAM	36	0	19.58	19.61	19.58				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.73	24.73	24.73				
3	QPSK	1	8	24.80	24.82	24.81	25.7	0		
3	QPSK	1	16	24.90	24.89	24.84				
3	QPSK	8	0	23.82	23.81	23.78				
3	QPSK	8	4	23.75	23.74	23.83	24.7	1		
3	QPSK	8	12	23.82	23.78	23.88				
3	QPSK	36	0	23.78	23.77	23.90				
3	16QAM	1	0	24.30	24.26	24.02	24.7	1		
3	16QAM	1	8	24.23	24.26	24.00				
3	16QAM	1	16	24.28	24.34	24.06				
3	16QAM	8	0	23.82	23.78	23.88				
3	16QAM	8	4	23.78	23.74	23.93	23.7	2		
3	16QAM	8	12	23.85	23.79	23.97				
3	16QAM	36	0	22.83	22.81	22.85				
3	8QAM	1	0	22.85	22.82	22.77	23.7	2		
3	8QAM	1	8	22.89	22.89	22.89				
3	8QAM	1	16	22.87	22.89	22.78				
3	8QAM	8	0	21.78	21.82	21.70	22.7	3		
3	8QAM	8	4	21.83	21.81	21.72				
3	8QAM	8	7	21.88	21.70	21.83				
3	8QAM	36	0	21.69	21.69	21.69				
3	25QAM	1	0	19.84	19.85	19.40				
3	25QAM	1	8	19.74	19.44	19.46	20.7	5		
3	25QAM	1	16	19.72	19.46	19.46				
3	25QAM	8	0	19.68	19.79	19.52				
3	25QAM	8	4	19.40	19.70	19.50	20.7	5		
3	25QAM	8	7	19.58	19.46	19.78				
3	25QAM	15	0	19.49	19.42	19.56				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.73	24.73	24.73				
14	QPSK	1	3	24.76	24.75	24.85	25.7	0		
14	QPSK	1	5	24.80	24.80	24.87				
14	QPSK	3	0	24.77	24.82	24.81				
14	QPSK	3	1	24.82	24.78	24.72				
14	QPSK	5	0	24.77	24.79	24.79	24.7	1		
14	QPSK	5	3	24.80	24.80	24.80				
14	16QAM	1	0	24.07	24.09	24.20				
14	16QAM	1	3	24.08	24.10	24.24	24.7	1		
14	16QAM	1	5	24.09	24.10	24.20				
14	16QAM	3	0	23.88	23.79	23.79				
14	16QAM	3	3	23.91	23.79	23.82	23.7	2		
14	16QAM	3	5	23.88	23.80	23.80				
14	8QAM	1	0	22.79	22.78	22.20				
14	8QAM	1	3	22.74	22.72	22.21	23.7	2		
14	8QAM	1	5	22.87	22.80	22.80				
14	8QAM	3	0	22.81	22.82	22.80				
14	8QAM	3	3	22.82	22.81	22.81	2			



Band 38_Ant 0										
Blv [MHz]	Modulation	RB Size	RD Offset	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Time-up limit (dftm)	MPR (dB)		
Channel										
Frequency (MHz)										
3800	3800	3800								
20	QPSK	1	0	2173	2178	2170				
20	QPSK	1	49	2184	2172	2182			23	0
20	QPSK	1	99	2200	2170	2198				
20	QPSK	50	0	2188	2178	2172				
20	QPSK	50	24	2176	2174	2176				
20	QPSK	50	50	2178	2170	2174			23	0
20	QPSK	100	0	2177	2168	2172				
20	16QAM	1	49	2178	2171	2180				
20	16QAM	1	99	2186	2172	2176				
20	16QAM	50	24	2075	2079	2079				
20	16QAM	50	50	2075	2079	2079			22	1
20	16QAM	100	0	2076	2070	2078				
20	64QAM	1	0	2049	2045	2043				
20	64QAM	1	49	2053	2049	2051			22	1
20	64QAM	1	99	2057	2055	2043				
20	64QAM	50	0	2171	2170	2172				
20	64QAM	50	24	1978	1974	1978				
20	64QAM	50	50	1972	1978	1978			21	2
20	64QAM	100	0	1978	1975	1970				
20	256QAM	1	0	1758	1758	1752				
20	256QAM	1	49	1770	1753	1761			19	4
20	256QAM	1	99	1758	1752	1759				
20	256QAM	50	0	1758	1758	1758				
20	256QAM	50	24	1757	1759	1759				
20	256QAM	50	50	1748	1740	1734			19	4
20	256QAM	100	0	1741	1735	1730				
Channel										
Frequency (MHz)										
2177.5	2095	2023.5								
18	QPSK	1	0	2170	2172	2180				
18	QPSK	1	49	2176	2168	2178			23	0
18	QPSK	1	99	2208	2169	2187				
18	QPSK	50	0	2178	2170	2176				
18	QPSK	50	24	2174	2164	2173			23	0
18	QPSK	50	50	2178	2168	2171				
18	16QAM	1	0	2178	2170	2172				
18	16QAM	1	49	2178	2170	2172			23	0
18	16QAM	1	99	2185	2169	2169				
18	16QAM	50	0	2069	2074	2079				
18	16QAM	50	24	2075	2070	2078			22	1
18	16QAM	50	50	2068	2060	2072				
18	16QAM	100	0	2068	2060	2072				
18	64QAM	1	0	2051	2044	2042			22	1
18	64QAM	1	49	2051	2044	2042				
18	64QAM	1	99	2059	2049	2048				
18	64QAM	50	0	1971	1970	1968			21	2
18	64QAM	50	24	1971	1970	1968				
18	64QAM	50	50	1978	1974	1978				
18	256QAM	1	0	1758	1755	1759			19	4
18	256QAM	1	49	1761	1751	1747				
18	256QAM	1	99	1758	1745	1758				
18	256QAM	50	0	1752	1734	1728			19	4
18	256QAM	50	24	1745	1735	1728				
18	256QAM	50	50	1741	1727	1734				
Channel										
Frequency (MHz)										
3760	3800	3800								
5	QPSK	1	0	2169	2170	2170				
5	QPSK	1	25	2175	2166	2178			23	0
5	QPSK	1	50	2181	2169	2178				
5	QPSK	25	0	2183	2174	2183				
5	QPSK	25	12	2177	2166	2186			23	0
5	QPSK	25	25	2177	2166	2186				
5	QPSK	50	0	2172	2162	2169				
5	QPSK	50	12	2165	2155	2166				
5	16QAM	1	25	2173	2168	2175			23	0
5	16QAM	1	49	2168	2168	2173				
5	16QAM	1	99	2176	2168	2173				
5	16QAM	25	12	2087	2082	2089			22	1
5	16QAM	25	25	2074	2066	2072				
5	16QAM	50	0	2075	2070	2080				
5	16QAM	50	12	2087	2082	2089				
5	16QAM	100	0	2076	2070	2078				
5	64QAM	1	0	2042	2038	2033			22	1
5	64QAM	1	25	2042	2033	2037				
5	64QAM	1	49	2046	2033	2037				
5	64QAM	25	12	1980	1974	1980				
5	64QAM	25	25	1980	1970	1976			21	2
5	64QAM	50	0	1979	1968	1975				
5	64QAM	50	12	1979	1968	1975				
5	256QAM	1	0	1752	1751	1758			19	4
5	256QAM	1	25	1758	1747	1750				
5	256QAM	1	49	1750	1750	1754				
5	256QAM	25	0	1750	1745	1755			19	4
5	256QAM	25	12	1735	1734	1738				
5	256QAM	25	25	1744	1735	1737				
5	256QAM	50	0	1738	1727	1728				
Channel										
Frequency (MHz)										
2027.5	2095	2027.5								
5	QPSK	1	0	2169	2174	2162				
5	QPSK	1	12	2182	2165	2172			23	0
5	QPSK	1	24	2208	2170	2170				
5	QPSK	12	0	2185	2175	2187				
5	QPSK	12	12	2173	2174	2171			23	0
5	QPSK	12	13	2178	2168	2185				
5	QPSK	25	0	2180	2162	2170				
5	16QAM	1	0	2166	2162	2174				
5	16QAM	1	12	2169	2166	2172			23	0
5	16QAM	1	24	2184	2172	2187				
5	16QAM	12	0	2068	2070	2075				
5	16QAM	12	7	2074	2066	2074			22	1
5	16QAM	12	13	2076	2062	2063				
5	16QAM	25	0	2068	2066	2068				
5	16QAM	25	12	2050	2044	2045			22	1
5	16QAM	25	24	2050	2046	2045				
5	16QAM	50	0	1970	1974	1970				
5	16QAM	50	7	1972	1968	1975			21	2
5	16QAM	50	13	1960	1938	1938				
5	16QAM	25	0	1974	1964	1963				
5	256QAM	1	0	1747	1760	1768			19	4
5	256QAM	1	12	1768	1752	1759				
5	256QAM	1	24	1765	1754	1755				
5	256QAM	12	0	1749	1746	1747			19	4
5	256QAM	12	7	1737	1737	1734				
5	256QAM	12	13	1739	1737	1734				
5	256QAM	25	0	1741	1738	1748				

Band 38_Ant 2										
Blv [MHz]	Modulation	RB Size	RD Offset	Power Leak Ch / Freq	Power Leak Ch / Freq	Power Leak Ch / Freq	Time-up limit (dftm)	MPR (dB)		
Channel										
Frequency (MHz)										
3760	3800	3800								
20	QPSK	1	0	2121	2121	2120				
20	QPSK	1	49	2138	2122	2120			22	0
20	QPSK	1	99	2152	2126	2130				
20	QPSK	50	0	2142	2130	2121				
20	QPSK	50	24	2140	2126	2130			22	0
20	QPSK	50	50	2140	2137	2131				
20	QPSK	100	0	2138	2127	2127				
20	16QAM	1	49	2141	2130	2138				
20	16QAM	1	99	2145	2143	2141				
20	16QAM	50	24	2141	2125	2128			22	0
20	16QAM	50	50	2141	2125	2128				
20	16QAM	100	0	2139	2122	2124				
20	64QAM	1	0	2102	2091	2096			22	0
20	64QAM	1	49	2102	2100	2100				
20	64QAM	1	99	2117	2112	2108				
20	64QAM	50	0	2128	2126	2124				
20	64QAM	50	24	2137	2131	2132			22	0
20	64QAM	50	50	2140	2132	2127				
20	64QAM	100	0	2138	2128	2128				
20	256QAM	1	0	1935	1938	1938			20.5	1.5
20	256QAM	1	49	1932	1935	1930				
20	256QAM	1	99	1935	1930	1935				
20	256QAM	50	0	1974	1966	1965			20.5	1.5
20	256QAM	50	24	1971	1965	1965				
20	256QAM	50	50	1971	1965	1964				
20	256QAM	100	0	1964	1970	1971				
Channel										
Frequency (MHz)										
2027.5	2095	2027.5								
18	QPSK	1	0	2118	2111	2111				
18	QPSK	1	49	2121	2118	2118			22	0
18	QPSK	1	99	2144	2127	2128				
18	QPSK	50	0	2132	2126	2126				
18	QPSK	50	24	2138	2126	2128			22	0
18	QPSK	50	50	2133	2134	2131				
18	16QAM	1	0	2127	2127	2117				
18	16QAM	1	49	2124	2124	2116			22	0
18	16QAM	1	99	2135	2138	2133				
18	16QAM	50	0	2126	2113	2111				
18	16QAM	50	24	2131						



Band 38_Ant 5												
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Power Min Ch / Freq	Power Avg Ch / Freq	Tune-up limit (dBm)	MPC (dB)	
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.95	21.08	20.95	21.08	20.95	21.08	22.5	0	
20	QPSK	1	49	21.10	21.04	21.02	21.02	21.02	21.02	22.5	0	
20	QPSK	1	99	21.19	21.09	21.11	21.09	21.11	21.09	22.5	0	
20	QPSK	50	0	21.10	21.03	21.03	21.03	21.03	21.03	22.5	0	
20	QPSK	50	24	21.05	21.01	21.01	21.01	21.01	21.01	22.5	0	
20	QPSK	50	50	21.08	21.02	21.02	21.02	21.02	21.02	22.5	0	
20	QPSK	100	0	21.04	21.02	21.02	21.02	21.02	21.02	22.5	0	
20	HQAM	1	49	21.04	21.08	21.08	21.08	21.08	21.08	22.5	0	
20	HQAM	1	99	21.17	21.12	21.12	21.12	21.12	21.12	22.5	0	
20	HQAM	1	49	20.92	21.01	21.01	21.01	21.01	21.01	22.5	0	
20	HQAM	50	24	21.05	21.06	21.07	21.07	21.07	21.07	22.5	0	
20	HQAM	50	50	21.11	21.07	21.06	21.06	21.06	21.06	22.5	0	
20	HQAM	100	0	21.00	21.01	21.01	21.01	21.01	21.01	22.5	0	
20	HQAM	1	0	20.72	20.78	20.78	20.78	20.78	20.78	22.5	0	
20	HQAM	1	49	20.82	20.82	20.82	20.82	20.82	20.82	22.5	0	
20	HQAM	1	99	20.90	20.80	20.82	20.82	20.82	20.82	22.5	0	
20	HQAM	50	0	20.54	20.58	20.58	20.58	20.58	20.58	22	0.5	
20	HQAM	50	24	20.82	20.85	20.87	20.87	20.87	20.87	22	0.5	
20	HQAM	50	50	20.81	20.88	20.88	20.88	20.88	20.88	22	0.5	
20	ZSOFDM	1	0	19.39	19.37	19.47	19.47	19.47	19.47	20	2.5	
20	ZSOFDM	1	49	19.47	19.36	19.32	19.32	19.32	19.32	20	2.5	
20	ZSOFDM	1	99	19.49	19.29	19.40	19.40	19.40	19.40	20	2.5	
20	ZSOFDM	50	0	19.44	19.32	19.38	19.38	19.38	19.38	20	2.5	
20	ZSOFDM	50	24	19.52	19.31	19.34	19.34	19.34	19.34	20	2.5	
20	ZSOFDM	50	50	19.21	19.25	19.11	19.11	19.11	19.11	20	2.5	
20	ZSOFDM	100	0	19.35	19.16	19.23	19.23	19.23	19.23	20	2.5	
Channel												
Frequency (MHz)												
16	QPSK	1	0	20.85	21.06	20.94	20.94	20.94	20.94	22.5	0	
16	QPSK	1	49	21.03	21.00	21.04	21.04	21.04	21.04	22.5	0	
16	QPSK	1	99	21.11	21.09	21.08	21.08	21.08	21.08	22.5	0	
16	QPSK	50	0	21.00	21.01	21.01	21.01	21.01	21.01	22.5	0	
16	QPSK	50	24	20.94	20.98	20.92	20.92	20.92	20.92	22.5	0	
16	QPSK	50	50	21.07	21.03	21.05	21.05	21.05	21.05	22.5	0	
16	QPSK	100	0	21.02	21.01	21.04	21.04	21.04	21.04	22.5	0	
16	HQAM	1	49	20.83	21.06	21.00	21.00	21.00	21.00	22.5	0	
16	HQAM	1	99	21.07	21.01	21.06	21.06	21.06	21.06	22.5	0	
16	HQAM	1	49	21.08	21.03	21.07	21.07	21.07	21.07	22.5	0	
16	HQAM	50	0	20.85	20.99	21.08	21.08	21.08	21.08	22.5	0	
16	HQAM	50	24	20.90	21.05	21.01	21.01	21.01	21.01	22.5	0	
16	HQAM	50	50	21.00	21.05	21.00	21.00	21.00	21.00	22.5	0	
16	HQAM	100	0	20.89	20.92	20.96	20.96	20.96	20.96	22.5	0	
16	HQAM	1	49	20.85	20.88	20.78	20.78	20.78	20.78	22.5	0	
16	HQAM	1	99	20.72	20.82	20.77	20.77	20.77	20.77	22.5	0	
16	HQAM	1	49	20.86	20.73	20.78	20.78	20.78	20.78	22.5	0	
16	HQAM	50	0	20.44	20.50	20.40	20.40	20.40	20.40	22	0.5	
16	HQAM	50	24	20.52	20.58	20.49	20.49	20.49	20.49	22	0.5	
16	HQAM	50	50	20.58	20.58	20.47	20.47	20.47	20.47	22	0.5	
16	ZSOFDM	1	0	19.43	19.45	19.40	19.40	19.40	19.40	20	2.5	
16	ZSOFDM	1	49	19.47	19.34	19.29	19.29	19.29	19.29	20	2.5	
16	ZSOFDM	1	99	19.48	19.29	19.40	19.40	19.40	19.40	20	2.5	
16	ZSOFDM	50	0	19.04	19.09	19.00	19.00	19.00	19.00	20	2.5	
16	ZSOFDM	50	24	19.17	19.23	19.02	19.02	19.02	19.02	20	2.5	
16	ZSOFDM	50	50	19.29	19.15	19.18	19.18	19.18	19.18	20	2.5	
Channel												
Frequency (MHz)												
10	QPSK	1	0	20.87	21.00	20.90	20.90	20.90	20.90	22.5	0	
10	QPSK	1	25	21.06	21.05	21.06	21.06	21.06	21.06	22.5	0	
10	QPSK	1	50	21.10	21.02	21.02	21.02	21.02	21.02	22.5	0	
10	QPSK	25	0	21.10	21.02	21.02	21.02	21.02	21.02	22.5	0	
10	QPSK	25	12	20.91	21.01	21.00	21.00	21.00	21.00	22.5	0	
10	QPSK	25	37	21.04	21.01	21.04	21.04	21.04	21.04	22.5	0	
10	QPSK	50	0	21.00	21.00	21.00	21.00	21.00	21.00	22.5	0	
10	HQAM	1	25	20.99	21.00	21.02	21.02	21.02	21.02	22.5	0	
10	HQAM	1	49	21.16	21.06	21.13	21.13	21.13	21.13	22.5	0	
10	HQAM	1	99	21.20	21.09	21.16	21.16	21.16	21.16	22.5	0	
10	HQAM	25	0	20.85	20.95	21.04	21.04	21.04	21.04	22.5	0	
10	HQAM	25	12	21.08	21.03	21.02	21.02	21.02	21.02	22.5	0	
10	HQAM	25	37	20.96	20.91	21.01	21.01	21.01	21.01	22.5	0	
10	HQAM	1	0	20.83	20.70	20.69	20.69	20.69	20.69	22.5	0	
10	HQAM	1	25	20.74	20.82	20.73	20.73	20.73	20.73	22.5	0	
10	HQAM	1	49	20.85	20.75	20.78	20.78	20.78	20.78	22.5	0	
10	HQAM	25	0	20.49	20.45	20.38	20.38	20.38	20.38	22	0.5	
10	HQAM	25	12	20.55	20.54	20.50	20.50	20.50	20.50	22	0.5	
10	HQAM	25	37	20.48	20.38	20.49	20.49	20.49	20.49	22	0.5	
10	ZSOFDM	1	0	19.38	19.27	19.34	19.34	19.34	19.34	20	2.5	
10	ZSOFDM	1	25	19.37	19.34	19.45	19.45	19.45	19.45	20	2.5	
10	ZSOFDM	1	49	19.47	19.28	19.32	19.32	19.32	19.32	20	2.5	
10	ZSOFDM	25	0	19.30	19.28	19.34	19.34	19.34	19.34	20	2.5	
10	ZSOFDM	25	12	19.34	19.16	19.30	19.30	19.30	19.30	20	2.5	
10	ZSOFDM	25	37	19.20	19.19	19.04	19.04	19.04	19.04	20	2.5	
10	ZSOFDM	50	0	19.32	19.11	19.13	19.13	19.13	19.13	20	2.5	

Band 41_Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Power Min Ch / Freq	Power Avg Ch / Freq	Tune-up limit (dBm)	MPC (dB)	
Channel												
Frequency (MHz)												
20	QPSK	1	0	21.73	21.70	21.70	21.69	21.69	21.69	22.5	0	
20	QPSK	1	49	21.74	21.81	21.72	21.80	21.79	21.81	22.5	0	
20	QPSK	1	99	21.79	21.80	21.75	21.79	21.81	21.81	22.5	0	
20	QPSK	50	0	21.73	21.69	21.77	21.74	21.79	21.79	22.5	0	
20	QPSK	50	24	21.76	21.66	21.76	21.68	21.76	21.76	22.5	0	
20	QPSK	50	50	21.71	21.62	21.76	21.61	21.76	21.76	22.5	0	
20	HQAM	1	49	21.88	21.80	21.75	21.81	21.80	21.80	22.5	0	
20	HQAM	1	99	21.89	21.81	21.72	21.78	21.78	21.78	22.5	0	
20	HQAM	1	49	21.88	21.86	21.82	21.83	21.82	21.82	22.5	0	
20	HQAM	50	0	20.25	20.36	20.34	20.34	20.34	20.34	22.5	0	
20	HQAM	50	24	20.31	20.37	20.27	20.14	20.85	20.85	22.5	0	
20	HQAM	50	50	20.34	20.41	20.32	20.35	20.35	20.35	22.5	0	
20	HQAM	100	0	20.24	20.41	20.28	20.13	20.28	20.28	22.5	0	
20	HQAM	1	0	19.99	20.10	19.99	19.88	19.92	19.92	22.5	0	
20	HQAM	1	49	20.03	20.10	19.97	19.97	19.97	19.97	22.5		



Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Lin Ch / Freq	Time-up limit (dBm)	MPR (dB)				
Channel										
Frequency (MHz)										
3970	4046	4060	4166	4140						
20	QPSK	1	0	21.28	21.51	21.43	21.55	21.35		
20	QPSK	1	60	21.27	21.60	21.49	21.61	21.40	21.7	0
20	QPSK	1	90	21.26	21.69	21.52	21.63	21.44		
20	QPSK	50	0	21.22	21.67	21.50	21.63	21.45		
20	QPSK	50	34	21.21	21.66	21.48	21.61	21.44	21.7	0
20	QPSK	50	50	21.18	21.60	21.43	21.52	21.42		
20	QPSK	100	0	21.24	21.65	21.49	21.61	21.39		
20	WQAM	1	0	21.60	21.60	21.60	21.60	21.60		
20	WQAM	1	49	21.45	21.84	21.60	21.82	21.50	21.7	0
20	WQAM	1	99	21.38	21.81	21.59	21.61	21.37		
20	WQAM	50	0	21.26	21.66	21.47	21.58	21.45		
20	WQAM	50	34	21.30	21.61	21.61	21.66	21.44	21.7	0
20	WQAM	100	0	21.28	21.68	21.52	21.67	21.39		
20	WQAM	1	0	21.23	21.57	21.43	21.53	21.29		
20	WQAM	1	49	21.23	21.57	21.43	21.53	21.29	21.7	0
20	WQAM	1	99	21.26	21.60	21.55	21.59	21.41		
20	WQAM	50	0	21.27	21.61	21.49	21.66	21.45		
20	WQAM	50	34	21.30	21.55	21.55	21.63	21.47	21.7	0
20	WQAM	50	50	21.35	21.65	21.53	21.66	21.48		
20	WQAM	100	0	21.20	21.66	21.51	21.62	21.40		
20	ZSOFDM	1	0	20.65	20.52	20.32	20.42	20.17		
20	ZSOFDM	1	49	20.16	20.42	20.44	20.38	20.28	20.7	1
20	ZSOFDM	1	99	19.98	20.63	20.30	20.59	20.30		
20	ZSOFDM	50	0	20.28	20.49	20.42	20.53	20.31	20.7	1
20	ZSOFDM	50	34	20.28	20.49	20.42	20.53	20.31		
20	ZSOFDM	100	0	20.10	20.51	20.35	20.49	20.32		
Channel										
Frequency (MHz)										
2483.5	2543.3	2593	2637.8	2692.3						
16	QPSK	1	0	21.31	21.46	21.46	21.56	21.60		
16	QPSK	1	37	21.25	21.42	21.41	21.52	21.54	21.70	0
16	QPSK	1	74	21.31	21.44	21.53	21.59	21.66		
16	QPSK	25	0	21.25	21.46	21.46	21.56	21.66		
16	QPSK	25	34	21.28	21.38	21.48	21.58	21.68	21.7	0
16	QPSK	36	50	21.31	21.40	21.43	21.62	21.62		
16	QPSK	50	0	21.30	21.42	21.45	21.63	21.63		
16	WQAM	1	0	21.42	21.40	21.47	21.61	21.63		
16	WQAM	1	37	21.27	21.41	21.41	21.52	21.54	21.7	0
16	WQAM	1	74	21.35	21.48	21.57	21.64	21.69		
16	WQAM	36	0	21.26	21.37	21.44	21.57	21.59		
16	WQAM	36	34	21.29	21.42	21.47	21.58	21.64	21.7	0
16	WQAM	36	50	21.28	21.40	21.41	21.60	21.61		
16	WQAM	75	0	21.33	21.41	21.50	21.61	21.69		
16	WQAM	75	34	21.27	21.52	21.49	21.52	21.59		
16	WQAM	1	37	21.20	21.28	21.48	21.53	21.55	21.7	0
16	WQAM	1	74	21.27	21.38	21.48	21.58	21.69		
16	WQAM	36	0	21.19	21.35	21.42	21.55	21.65		
16	WQAM	36	34	21.26	21.45	21.46	21.58	21.68		
16	WQAM	36	50	21.31	21.38	21.50	21.60	21.67	21.7	0
16	ZSOFDM	1	0	20.17	20.17	20.45	20.45	20.17		
16	ZSOFDM	1	37	20.12	20.31	20.45	20.45	20.17	20.7	1
16	ZSOFDM	1	74	20.06	20.35	20.48	20.51	20.36		
16	ZSOFDM	25	0	20.07	20.26	20.38	20.42	20.06		
16	ZSOFDM	25	34	20.16	20.38	20.45	20.46	20.25	20.7	1
16	ZSOFDM	36	50	20.19	20.20	20.41	20.47	20.38		
16	ZSOFDM	50	0	20.20	20.22	20.39	20.42	20.39		
Channel										
Frequency (MHz)										
3970	4046	4060	4166	4140						
10	QPSK	1	0	21.22	21.34	21.42	21.55	21.61		
10	QPSK	1	25	21.22	21.39	21.44	21.58	21.63	21.70	0
10	QPSK	1	49	21.24	21.47	21.48	21.53	21.64		
10	QPSK	25	0	21.19	21.34	21.43	21.61	21.64		
10	QPSK	25	12	21.24	21.36	21.47	21.62	21.67	21.7	0
10	QPSK	25	49	21.21	21.49	21.46	21.61	21.65		
10	QPSK	50	0	21.20	21.44	21.41	21.59	21.67		
10	WQAM	1	0	21.32	21.43	21.43	21.48	21.67		
10	WQAM	1	25	21.38	21.49	21.48	21.64	21.67	21.7	0
10	WQAM	1	49	21.29	21.52	21.58	21.64	21.61		
10	WQAM	1	74	21.32	21.39	21.49	21.61	21.60		
10	WQAM	25	12	21.26	21.46	21.52	21.62	21.69	21.7	0
10	WQAM	25	25	21.34	21.48	21.47	21.65	21.66		
10	WQAM	25	49	21.30	21.45	21.56	21.66	21.61		
10	WQAM	1	0	21.18	21.30	21.44	21.54	21.59		
10	WQAM	1	36	21.21	21.38	21.45	21.58	21.61	21.7	0
10	WQAM	1	74	21.25	21.41	21.42	21.55	21.59		
10	WQAM	25	0	21.19	21.33	21.48	21.51	21.58		
10	WQAM	25	12	21.27	21.42	21.53	21.67	21.60		
10	WQAM	25	12	21.30	21.45	21.52	21.66	21.62	21.7	0
10	WQAM	25	25	21.38	21.50	21.52	21.68	21.60		
10	ZSOFDM	1	0	20.30	20.41	20.50	20.62	20.46		
10	ZSOFDM	1	25	20.10	20.22	20.30	20.33	20.17	20.7	1
10	ZSOFDM	1	25	20.04	20.20	20.31	20.43	20.41		
10	ZSOFDM	1	49	19.95	20.28	20.38	20.49	20.47		
10	ZSOFDM	25	0	19.99	20.28	20.30	20.48	20.27		
10	ZSOFDM	25	12	20.21	20.37	20.39	20.56	20.39	20.7	1
10	ZSOFDM	25	25	20.25	20.42	20.35	20.51	20.45		
10	ZSOFDM	50	0	20.24	20.22	20.37	20.48	20.34		
Channel										
Frequency (MHz)										
2483.5	2543.3	2593	2637.8	2692.3						
5	QPSK	1	0	21.23	21.33	21.43	21.55	21.59		
5	QPSK	1	12	21.24	21.42	21.48	21.53	21.62	21.70	0
5	QPSK	1	24	21.24	21.40	21.47	21.59	21.63		
5	QPSK	12	0	21.26	21.43	21.43	21.50	21.64		
5	QPSK	12	13	21.29	21.41	21.43	21.58	21.62	21.7	0
5	QPSK	25	0	21.25	21.47	21.47	21.60	21.66		
5	WQAM	1	0	21.37	21.51	21.52	21.69	21.68		
5	WQAM	1	12	21.40	21.51	21.53	21.60	21.67	21.7	0
5	WQAM	1	24	21.36	21.54	21.52	21.66	21.67		
5	WQAM	12	0	21.25	21.33	21.44	21.53	21.63		
5	WQAM	12	7	21.23	21.41	21.40	21.63	21.67	21.7	0
5	WQAM	12	13	21.18	21.40	21.42	21.55	21.59		
5	WQAM	25	0	21.31	21.48	21.48	21.62	21.62		
5	WQAM	25	12	21.35	21.39	21.50	21.51	21.63	21.7	0
5	WQAM	25	12	21.20	21.36	21.44	21.50	21.59		
5	WQAM	25	24	21.17	21.36	21.50	21.55	21.63		
5	WQAM	12	7	21.28	21.41	21.47	21.55	21.67	21.7	0
5	WQAM	12	7	21.26	21.39	21.48	21.55	21.67		
5	WQAM	25	13	21.30	21.39	21.48	21.60	21.64		
5	WQAM	25	0	21.33	21.48	21.50	21.66	21.64		
5	ZSOFDM	1	0	20.11	20.15	20.30	20.34	20.41		
5	ZSOFDM	1	12	20.13	20.19	20.38	20.35	20.30	20.7	1
5	ZSOFDM	1	24	20.13	20.31	20.43	20.40	20.35		
5	ZSOFDM	12	0	19.99	20.21	20.29	20.49	20.34		
5	ZSOFDM	12	7	20.14	20.33	20.42	20.53	20.45	20.7	1
5	ZSOFDM	12	13	20.28	20.37	20.33	20.53	20.32		
5	ZSOFDM	25	0	20.10	20.28	20.30	20.48	20.37		

Band 41_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Lin Ch / Freq	Time-up limit (dBm)	MPR (dB)				
Channel										
Frequency (MHz)										
3970	4046	4060	4166	4140						
20	QPSK	1	0	21.87	22.12	21.99	22.18	22.01		
20	QPSK	1	60	21.85	22.13	21.93	22.15	21.95	22.5	0
20	QPSK	1	99	21.90	22.20	22.01	21.98	21.74		
20	QPSK	50	0	21.98	22.30	21.97	21.98	21.98		
20	QPSK	50	34	21.93	22.21	21.92	21.98	21.98	22.5	0
20	QPSK	50	50	21.92	22.15	21.95	21.97	21.94		
20	QPSK	100	0	21.87	22.32	22.01	21.95	21.73		
20	WQAM	1	0	21.87	22.12	21.98	21.95	21.70		
20	WQAM	1	49	21.85	22.17	22.00	22.02	21.72	22.5	0
20	WQAM	1	99	21.98	22.23	22.09	21.96	21.79		
20	WQAM	50	0	21.79	22.12	22.01	21.98	21.74		
20	WQAM	50	34	21.81	22.21	22.00	21.96	21.72	22.5	0
20	WQAM	100	0	21.82	22.22	21.99	21.93	21.68		
20	WQAM	1								



DS13

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.78	32.84	32.77	34.00	23.78	23.84	23.77	25.00
GPRS 1 Tx slot	33.03	33.01	33.00	34.00	24.03	24.01	24.00	25.00
GPRS 2 Tx slots	29.76	29.75	29.78	31.00	23.78	23.75	23.78	25.00
GPRS 3 Tx slots	27.74	27.85	27.81	29.20	23.48	23.59	23.55	24.94
GPRS 4 Tx slots	26.26	26.33	26.32	28.00	23.26	23.33	23.32	25.00
EDGE 1 Tx slot	27.16	27.09	27.11	28.00	18.16	18.09	18.11	19.00
EDGE 2 Tx slots	23.94	23.91	24.19	25.00	17.94	17.91	18.19	19.00
EDGE 3 Tx slots	22.07	22.02	22.31	23.20	17.81	17.76	18.05	18.94
EDGE 4 Tx slots	20.58	20.56	20.67	22.00	17.58	17.56	17.67	19.00

GSM850_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	128	189		251	128	189	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.38	32.30	32.22	33.50	23.38	23.30	23.22	24.50
GPRS 1 Tx slot	32.32	32.35	32.20	33.50	23.32	23.35	23.20	24.50
GPRS 2 Tx slots	28.76	28.82	28.84	30.50	22.76	22.82	22.84	24.50
GPRS 3 Tx slots	26.78	27.00	26.89	28.70	22.52	22.74	22.63	24.44
GPRS 4 Tx slots	25.61	25.76	25.66	27.50	22.61	22.76	22.66	24.50
EDGE 1 Tx slot	26.29	26.00	26.02	27.50	17.29	17.00	17.02	18.50
EDGE 2 Tx slots	22.97	23.05	23.00	24.50	16.97	17.05	17.00	18.50
EDGE 3 Tx slots	21.33	21.19	21.11	22.70	17.07	16.93	16.85	18.44
EDGE 4 Tx slots	19.91	19.79	19.84	21.50	16.91	16.79	16.84	18.50

GSM1900_Ant 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	681		810	512	681	
Frequency (MHz)	1852.2	1880	1909.8		1852.2	1880	1909.8	
GSM 1 Tx slot	30.50	30.49	30.31	31.00	21.50	21.49	21.31	22.00
GPRS 1 Tx slot	30.40	30.42	30.38	31.00	21.40	21.42	21.38	22.00
GPRS 2 Tx slots	27.08	27.18	27.03	28.00	21.08	21.18	21.03	22.00
GPRS 3 Tx slots	25.03	25.15	25.08	26.20	20.77	20.89	20.82	21.94
GPRS 4 Tx slots	23.52	23.66	23.53	25.00	20.52	20.66	20.53	22.00
EDGE 1 Tx slot	26.09	26.24	26.01	26.50	17.09	17.24	17.01	17.50
EDGE 2 Tx slots	22.82	23.11	22.87	23.50	16.82	17.11	16.87	17.50
EDGE 3 Tx slots	20.83	21.20	20.94	21.70	16.57	16.94	16.68	17.44
EDGE 4 Tx slots	19.19	19.38	19.16	20.50	16.19	16.38	16.16	17.50

GSM1900_Ant 5	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	TX Channel	512	681		810	512	681	
Frequency (MHz)	1852.2	1880	1909.8		1852.2	1880	1909.8	
GSM 1 Tx slot	29.25	29.18	29.19	31.00	20.25	20.18	20.19	22.00
GPRS 1 Tx slot	29.35	29.39	29.20	31.00	20.35	20.39	20.20	22.00
GPRS 2 Tx slots	26.23	26.36	26.22	28.00	20.23	20.36	20.22	22.00
GPRS 3 Tx slots	24.29	24.36	24.28	26.20	20.03	20.10	20.02	21.94
GPRS 4 Tx slots	23.18	23.27	23.20	25.00	20.18	20.27	20.20	22.00
EDGE 1 Tx slot	25.24	25.09	25.01	26.50	16.24	16.09	16.01	17.50
EDGE 2 Tx slots	22.25	21.99	22.22	23.50	16.25	15.99	16.22	17.50
EDGE 3 Tx slots	20.07	20.12	20.07	21.70	15.81	15.86	15.81	17.44
EDGE 4 Tx slots	18.51	18.59	18.55	20.50	15.51	15.59	15.55	17.50

Band	WCDMA II_Ant 2			Tune-up Limit (dBm)	WCDMA II_Ant 5			Tune-up Limit (dBm)	
	TX Channel	9262	9400		9538	9262	9400		9538
Rx Channel	9662	9800	9938		9662	9800	9938		
Frequency (MHz)	1852.4	1880	1907.6		1852.4	1880	1907.6		
3GPP Rel 99	AMR 12.2Kbps	24.08	24.09	24.07	25.00	23.37	23.36	23.33	25.00
3GPP Rel 99	RMC 12.2Kbps	24.07	24.11	24.08	25.00	23.41	23.42	23.31	25.00
3GPP Rel 6	HSDPA Subtest-1	23.04	23.15	23.09	24.00	22.09	22.20	22.22	24.00
3GPP Rel 6	HSDPA Subtest-2	23.03	23.05	23.00	24.00	22.07	22.08	22.08	24.00
3GPP Rel 6	HSDPA Subtest-3	22.66	22.76	22.63	23.50	21.83	21.84	21.71	23.50
3GPP Rel 6	HSDPA Subtest-4	22.59	22.70	22.66	23.50	21.71	21.88	21.81	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.00	23.05	23.04	24.00	22.01	22.09	22.10	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.99	23.03	22.97	24.00	22.05	22.03	22.08	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.59	22.62	22.58	23.50	21.78	21.85	21.88	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.57	22.55	22.55	23.50	21.81	21.82	21.70	23.50
3GPP Rel 6	HSUPA Subtest-1	19.90	19.91	19.92	24.00	19.35	19.46	19.39	24.00
3GPP Rel 6	HSUPA Subtest-2	19.85	19.89	19.85	22.00	19.38	19.39	19.31	22.00
3GPP Rel 6	HSUPA Subtest-3	20.92	20.95	20.98	23.00	20.49	20.51	20.56	23.00
3GPP Rel 6	HSUPA Subtest-4	19.39	19.44	19.41	22.00	18.89	18.03	18.91	22.00
3GPP Rel 6	HSUPA Subtest-5	20.90	20.80	20.90	24.00	20.36	20.45	20.38	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.83	19.91	19.76	21.50	19.27	19.38	19.40	21.50

Band	WCDMA IV_Ant 2			Tune-up Limit (dBm)	WCDMA IV_Ant 5			Tune-up Limit (dBm)	
	TX Channel	1312	1413		1513	1312	1413		1513
Rx Channel	1537	1638	1738		1537	1638	1738		
Frequency (MHz)	1722.4	1722.6	1722.6		1722.4	1722.6	1722.6		
3GPP Rel 99	AMR 12.2Kbps	23.97	24.10	24.09	25.00	23.42	23.55	23.46	25.00
3GPP Rel 99	RMC 12.2Kbps	23.99	24.11	24.06	25.00	23.46	23.58	23.48	25.00
3GPP Rel 6	HSDPA Subtest-1	23.06	23.23	23.20	24.00	22.35	22.55	22.51	24.00
3GPP Rel 6	HSDPA Subtest-2	23.02	23.16	23.12	24.00	22.19	22.35	22.41	24.00
3GPP Rel 6	HSDPA Subtest-3	22.55	22.69	22.67	23.50	21.83	21.85	21.90	23.50
3GPP Rel 6	HSDPA Subtest-4	22.54	22.69	22.59	23.50	21.82	22.01	21.83	23.50
3GPP Rel 6	DC-HSDPA Subtest-1	23.04	23.02	22.96	24.00	22.28	22.30	22.32	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.98	23.00	23.01	24.00	22.30	22.33	22.28	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.50	22.51	22.49	23.50	21.76	21.80	21.79	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.55	22.48	22.50	23.50	21.81	21.77	21.75	23.50
3GPP Rel 6	HSUPA Subtest-1	20.80	20.92	20.88	24.00	20.47	20.52	20.55	24.00
3GPP Rel 6	HSUPA Subtest-2	20.77	20.90	20.87	22.00	20.34	20.45	20.42	22.00
3GPP Rel 6	HSUPA Subtest-3	21.81	21.98	21.91	23.00	21.40	21.63	21.59	23.00
3GPP Rel 6	HSUPA Subtest-4	20.35	20.48	20.37	22.00	19.99	20.20	20.05	22.00
3GPP Rel 6	HSUPA Subtest-5	21.80	21.90	21.90	24.00	21.51	21.49	21.54	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.06	20.23	20.15	21.50	19.78	19.82	19.80	21.50

Band	WCDMA V_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 1			Tune-up Limit (dBm)	
	TX Channel	4132	4182		4233	4132	4182		4233
Rx Channel	4357	4407	4458		4357	4407	4458		
Frequency (MHz)	826.4	836.4	846.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	23.74	23.76	23.64	25.00	20.44	20.40	20.38	22.00
3GPP Rel 99	RMC 12.2Kbps	23.76	23.78	23.67	25.00	20.45	20.47	20.40	22.00
3GPP Rel 6	HSDPA Subtest-1	22.72	22.82	22.80	24.00	19.44	19.50	19.41	21.00
3GPP Rel 6	HSDPA Subtest-2	22.78	22.75	22.86	24.00	19.52	19.45	19.34	21.00
3GPP Rel 6	HSDPA Subtest-3	22.24	22.38	22.32	23.50	18.99	18.96	18.96	20.50
3GPP Rel 6	HSDPA Subtest-4	22.27	22.35	22.31	23.50	18.86	18.97	18.88	20.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.74	22.76	22.78	24.00	19.42	19.39	19.42	21.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.70	22.73	22.71	24.00	19.38	19.35	19.43	21.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.21	22.28	22.19	23.50	18.88	18.82	18.83	20.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.23	22.22	22.20	23.50	18.81	18.83	18.80	20.50
3GPP Rel 6	HSUPA Subtest-1	19.55	19.72	19.68	24.00	16.38	16.43	16.34	21.00
3GPP Rel 6	HSUPA Subtest-2	17.68	17.76	17.71	22.00	14.36	14.46	14.30	19.00
3GPP Rel 6	HSUPA Subtest-3	18.69	18.85	18.77	23.00	15.38	15.47	15.42	20.00
3GPP Rel 6	HSUPA Subtest-4	19.13	19.22	19.16	22.00	16.02	15.96	15.94	19.00
3GPP Rel 6	HSUPA Subtest-5	20.70	20.80	20.80	24.00	17.40	17.50	17.30	21.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.02	18.85	18.92	21.50	14.86	15.07	15.08	18.50



Band 2_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low (dBm)	Power High (dBm)	Power Max (dBm)	Time-up (min)	APRS (dB)	APRS (dB)	
Channel										
Frequency (MHz)										
20	QPSK	5	0	23.61	23.71	23.66				
20	QPSK	1	49	23.68	23.82	23.75	24.5	0		
20	QPSK	5	0	23.76	23.86	23.81				
20	QPSK	50	0	23.73	23.85	23.79				
20	QPSK	50	24	23.80	23.92	23.86				
20	QPSK	50	49	23.87	23.99	23.93				
20	QPSK	150	0	23.85	23.97	23.91	23.5	1		
20	QPSK	50	0	23.93	24.05	23.99				
20	16QAM	1	49	23.97	24.11	24.04	23.5	1		
20	16QAM	1	99	23.91	24.05	23.98				
20	16QAM	50	24	23.97	24.11	24.04				
20	16QAM	50	49	24.04	24.18	24.09				
20	16QAM	100	0	23.97	24.11	24.04	22.5	2		
20	16QAM	1	0	23.91	24.05	23.98				
20	16QAM	1	99	23.93	24.07	23.96				
20	16QAM	50	24	24.00	24.14	24.01				
20	16QAM	50	49	24.07	24.21	24.08				
20	16QAM	100	0	24.00	24.14	24.01	21.5	3		
20	16QAM	1	0	23.93	24.07	23.96				
20	16QAM	1	99	23.95	24.09	23.94				
20	16QAM	50	24	24.02	24.16	24.03				
20	16QAM	50	49	24.09	24.23	24.06				
20	16QAM	100	0	24.02	24.16	24.03	21.0	3		
20	16QAM	1	0	23.95	24.09	23.98				
20	16QAM	1	99	23.97	24.11	24.00				
20	16QAM	50	24	24.04	24.18	24.05				
20	16QAM	50	49	24.11	24.25	24.12				
20	16QAM	100	0	24.04	24.18	24.05	20.5	3		
20	16QAM	1	0	23.97	24.11	24.04				
20	16QAM	1	99	23.99	24.13	24.02				
20	16QAM	50	24	24.06	24.20	24.07				
20	16QAM	50	49	24.13	24.27	24.14				
20	16QAM	100	0	24.06	24.20	24.07	20.0	3		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	19.5	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	19.0	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	18.5	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	18.0	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	17.5	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	17.0	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	16.5	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	16.0	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	15.5	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	15.0	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	14.5	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	14.0	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	13.5	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	13.0	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	12.5	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	12.0	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	11.5	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	11.0	5		
20	16QAM	1	0	23.99	24.13	24.02				
20	16QAM	1	99	24.01	24.15	24.04				
20	16QAM	50	24	24.08	24.22	24.09				
20	16QAM	50	49	24.15	24.29	24.16				
20	16QAM	100	0	24.08	24.22	24.09	10.5	5		









Band 26_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Frame Low	Frame Mid	Frame High	Time-up (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.73	24.73	24.73				
14	QPSK	1	37	24.73	24.73	24.73	25.7	0		
14	QPSK	1	74	24.73	24.73	24.73				
14	QPSK	36	0	23.81	23.81	23.78				
14	QPSK	36	20	23.77	23.80	23.79	24.7	1		
14	QPSK	36	40	23.73	23.83	23.81				
14	16QAM	1	0	24.02	24.02	24.02				
14	16QAM	1	37	24.02	24.23	24.23	24.7	1		
14	16QAM	1	74	24.11	24.19	24.20				
14	16QAM	36	0	22.74	22.74	22.74				
14	16QAM	36	20	22.79	22.82	22.77	23.7	2		
14	16QAM	36	40	22.77	22.90	22.71				
14	16QAM	75	0	22.78	22.84	22.81				
14	8QAM	1	0	22.77	22.80	22.79				
14	8QAM	1	37	22.80	22.82	22.81	23.7	2		
14	8QAM	1	74	22.77	22.80	22.79				
14	8QAM	36	0	21.80	21.79	21.79				
14	8QAM	36	20	21.84	21.78	21.83	22.7	3		
14	8QAM	36	40	21.76	21.77	21.76				
14	8QAM	75	0	21.82	21.83	21.82				
14	25QAM	1	0	19.97	19.99	19.98				
14	25QAM	1	37	19.97	19.99	19.98	20.7	5		
14	25QAM	1	74	19.98	19.98	19.98				
14	25QAM	36	0	19.98	19.97	19.97				
14	25QAM	36	20	19.97	19.98	19.98	20.7	5		
14	25QAM	36	40	19.97	19.98	19.98				
14	25QAM	75	0	19.92	19.93	19.92				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.71	24.74	24.69				
14	QPSK	1	25	24.78	24.82	24.71	25.7	0		
14	QPSK	1	49	24.84	24.84	24.78				
14	QPSK	36	0	23.82	23.79	23.83				
14	QPSK	36	12	23.79	23.83	23.80	24.7	1		
14	QPSK	36	24	23.82	23.82	23.81				
14	QPSK	36	0	23.81	23.88	23.82				
14	16QAM	1	0	24.28	24.28	24.28				
14	16QAM	1	25	24.28	24.27	24.28	24.7	1		
14	16QAM	1	49	24.29	24.26	24.26				
14	16QAM	36	0	23.72	23.72	23.72				
14	16QAM	36	12	23.75	23.70	23.69	23.7	2		
14	16QAM	36	24	23.72	23.72	23.72				
14	16QAM	75	0	23.77	23.81	23.78				
14	8QAM	1	0	19.92	19.97	19.94				
14	8QAM	1	25	19.98	19.98	19.98	20.7	5		
14	8QAM	1	49	19.97	19.95	19.95				
14	8QAM	36	0	19.92	19.97	19.94				
14	8QAM	36	12	19.97	19.97	19.97	20.7	5		
14	8QAM	36	24	19.97	19.97	19.97				
14	8QAM	75	0	19.92	19.97	19.94				
14	25QAM	1	0	19.92	19.97	19.94				
14	25QAM	1	25	19.98	19.98	19.98	20.7	5		
14	25QAM	1	49	19.97	19.96	19.96				
14	25QAM	36	0	19.92	19.97	19.94				
14	25QAM	36	12	19.97	19.97	19.97	20.7	5		
14	25QAM	36	24	19.97	19.97	19.97				
14	25QAM	75	0	19.92	19.97	19.94				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.73	24.73	24.73				
14	QPSK	1	12	24.74	24.75	24.68	25.7	0		
14	QPSK	1	24	24.79	24.72	24.70				
14	QPSK	12	0	23.77	23.84	23.81				
14	QPSK	12	7	23.78	23.80	23.83	24.7	1		
14	QPSK	12	13	23.78	23.80	23.83				
14	QPSK	36	0	23.83	23.82	23.90				
14	16QAM	1	0	23.77	23.84	24.14	24.7	1		
14	16QAM	1	12	23.81	23.82	24.21				
14	16QAM	1	24	23.85	23.88	24.28				
14	16QAM	36	0	23.68	23.68	23.68				
14	16QAM	36	12	23.77	23.80	23.69	23.7	2		
14	16QAM	36	24	23.72	23.70	23.67				
14	16QAM	75	0	23.68	23.68	23.68				
14	8QAM	1	0	23.68	23.64	23.11	23.7	2		
14	8QAM	1	12	23.68	23.68	23.68				
14	8QAM	1	24	23.62	23.63	23.10				
14	8QAM	36	0	23.76	23.68	23.78				
14	8QAM	36	12	23.83	23.81	23.84	22.7	3		
14	8QAM	36	24	23.74	23.77	23.82				
14	8QAM	75	0	23.68	23.68	23.68				
14	25QAM	1	0	19.40	19.63	19.46				
14	25QAM	1	12	19.44	19.67	19.58	20.7	5		
14	25QAM	1	24	19.44	19.67	19.45				
14	25QAM	36	0	19.44	19.63	19.71				
14	25QAM	36	12	19.62	19.61	19.61	20.7	5		
14	25QAM	36	24	19.62	19.78	19.58				
14	25QAM	75	0	19.44	19.63	19.63				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.73	24.73	24.73				
14	QPSK	1	8	24.69	24.62	24.61	25.7	0		
14	QPSK	1	16	24.60	24.60	24.64				
14	QPSK	8	0	23.82	23.81	23.79				
14	QPSK	8	4	23.75	23.74	23.82	24.7	1		
14	QPSK	8	12	23.82	23.78	23.80				
14	QPSK	15	0	23.78	23.77	23.90				
14	16QAM	1	0	24.30	24.26	24.02	24.7	1		
14	16QAM	1	8	24.23	24.26	24.00				
14	16QAM	1	16	24.26	24.34	24.06				
14	16QAM	36	0	23.62	23.78	23.69				
14	16QAM	36	4	23.78	23.74	23.92	23.7	2		
14	16QAM	36	7	23.85	23.79	23.97				
14	16QAM	36	15	23.82	23.81	23.81	23.7	2		
14	8QAM	1	0	23.65	23.62	23.77				
14	8QAM	1	8	23.67	23.69	23.78				
14	8QAM	1	16	23.67	23.69	23.78				
14	8QAM	36	0	23.79	23.62	23.70	22.7	3		
14	8QAM	36	4	23.82	23.81	23.72				
14	8QAM	36	7	23.88	23.70	23.80				
14	8QAM	36	15	23.69	23.69	23.69				
14	25QAM	1	0	19.84	19.85	19.84				
14	25QAM	1	8	19.74	19.84	19.84	20.7	5		
14	25QAM	1	16	19.72	19.86	19.86				
14	25QAM	36	0	19.88	19.79	19.82				
14	25QAM	36	4	19.80	19.70	19.80	20.7	5		
14	25QAM	36	7	19.58	19.46	19.78				
14	25QAM	75	0	19.49	19.42	19.56				
Channel										
Frequency (MHz)										
14	QPSK	1	0	24.73	24.73	24.73				
14	QPSK	1	5	24.68	24.65	24.65	25.7	0		
14	QPSK	1	10	24.63	24.63	24.63				
14	QPSK	3	0	24.72	24.72	24.72				
14	QPSK	3	3	24.77	24.70	24.70	24.7	1		
14	QPSK	3	6	24.72	24.70	24.70				
14	16QAM	1	0	24.07	24.09	24.20				
14	16QAM	1	5	23.92	24.20	24.20	24.7	1		
14	16QAM	1	10	23.88	24.10	24.20				
14	16QAM	36	0	23.68	23.68	23.68				
14	16QAM	36	3	23.81	23.79	23.82	23.7	2		
14	16QAM	36	6	23.68	23.69	23.20				
14	8QAM	1	0	23.74	23.17	23.17				
14	8QAM	1	5	23.67	23.69	23.69	23.7	2		
14	8QAM	1	10	23.61	23.62	23.62				
14	8QAM	36	0	23.71	23.76	23.86	22.7			



Band 38_Ant 0										
Ev (MHz)	Modulation	RB Size	RB Offset	Power Ch./Frac.	Power Max/Ch./Frac.	Power Min/Ch./Frac.	Time-up limit (min)	MPR (dB)		
Channel Frequency (MHz)										
20	QPSK	1	0	22.81	22.54	22.46	24	0		
20	QPSK	1	49	22.81	22.52	22.45	24	0		
20	QPSK	1	98	22.89	22.46	22.47	24	0		
20	QPSK	50	0	21.64	21.31	21.32	23	1		
20	QPSK	50	24	21.63	21.29	21.28	23	1		
20	QPSK	50	50	21.54	21.23	21.28	23	1		
20	16QAM	1	0	21.64	21.37	21.26	23	1		
20	16QAM	1	49	21.62	21.27	21.33	23	1		
20	16QAM	1	98	21.52	21.25	21.30	23	1		
20	16QAM	50	0	20.81	20.33	20.33	22	2		
20	16QAM	50	24	20.56	20.22	20.28	22	2		
20	16QAM	50	50	20.56	20.22	20.28	22	2		
20	16QAM	100	0	20.56	20.24	20.31	22	2		
20	16QAM	100	24	20.32	20.07	20.07	22	2		
20	16QAM	100	49	20.29	20.02	20.05	22	2		
20	16QAM	1	99	20.30	20.03	20.02	21	3		
20	16QAM	50	0	19.59	19.31	19.34	19	5		
20	16QAM	50	24	19.61	19.26	19.38	19	5		
20	16QAM	50	50	19.56	19.25	19.33	19	5		
20	16QAM	100	0	19.62	19.29	19.28	19	5		
20	16QAM	100	24	19.34	19.24	19.60	19	5		
20	16QAM	100	49	19.27	19.24	19.31	19	5		
20	16QAM	1	99	19.19	19.10	19.24	19	5		
20	16QAM	50	24	19.13	19.02	19.30	19	5		
20	16QAM	50	50	19.14	19.23	19.30	19	5		
20	16QAM	100	0	19.52	19.20	19.22	19	5		
20	16QAM	100	24	19.30	19.20	19.22	19	5		
Channel Frequency (MHz)										
18	QPSK	1	0	22.77	22.38	22.38	24	0		
18	QPSK	1	37	22.76	22.37	22.38	24	0		
18	QPSK	1	74	22.70	22.33	22.38	24	0		
18	QPSK	36	0	21.73	21.32	21.33	23	1		
18	QPSK	36	24	21.69	21.29	21.29	23	1		
18	QPSK	36	39	21.68	21.24	21.24	23	1		
18	16QAM	1	0	21.72	21.33	21.29	23	1		
18	16QAM	1	37	21.70	21.30	21.31	23	1		
18	16QAM	1	74	21.67	21.28	21.38	23	1		
18	16QAM	36	0	20.71	20.23	20.27	22	2		
18	16QAM	36	24	20.50	20.17	20.22	22	2		
18	16QAM	36	39	20.60	20.17	20.22	22	2		
18	16QAM	75	0	20.69	20.24	20.30	22	2		
18	16QAM	75	24	20.11	20.08	20.08	22	2		
18	16QAM	75	37	20.52	20.01	20.02	22	2		
18	16QAM	36	0	19.73	19.33	19.27	21	3		
18	16QAM	36	24	19.70	19.27	19.31	21	3		
18	16QAM	36	39	19.74	19.29	19.34	21	3		
18	16QAM	75	0	19.73	19.34	19.38	21	3		
18	16QAM	75	24	19.52	19.25	19.25	21	3		
18	16QAM	75	37	19.17	19.38	19.32	19	5		
18	16QAM	1	74	19.19	19.16	19.15	19	5		
18	16QAM	36	0	19.11	19.11	19.11	19	5		
18	16QAM	36	24	19.11	19.11	19.11	19	5		
18	16QAM	36	39	19.11	19.11	19.11	19	5		
18	16QAM	75	0	19.34	19.33	19.22	19	5		
Channel Frequency (MHz)										
10	QPSK	1	0	22.86	22.27	22.44	24	0		
10	QPSK	1	49	22.77	22.29	22.45	24	0		
10	QPSK	25	0	21.71	21.46	21.32	23	1		
10	QPSK	25	12	21.71	21.32	21.32	23	1		
10	QPSK	25	25	21.74	21.18	21.18	23	1		
10	16QAM	1	0	21.73	21.27	21.35	23	1		
10	16QAM	1	25	21.78	21.44	21.36	23	1		
10	16QAM	1	49	21.69	21.32	21.33	23	1		
10	16QAM	25	0	20.81	20.22	20.28	22	2		
10	16QAM	25	12	20.65	20.13	20.21	22	2		
10	16QAM	25	25	20.82	20.23	20.18	22	2		
10	16QAM	50	0	20.73	20.22	20.30	22	2		
10	16QAM	50	12	20.52	20.01	20.03	22	2		
10	16QAM	50	25	20.51	20.14	20.02	22	2		
10	16QAM	1	49	20.46	20.03	20.03	21	3		
10	16QAM	25	0	19.75	19.28	19.21	19	5		
10	16QAM	25	12	19.62	19.26	19.30	19	5		
10	16QAM	25	25	19.71	19.11	19.11	19	5		
10	16QAM	50	0	19.75	19.28	19.27	19	5		
10	16QAM	50	12	19.23	19.24	19.30	19	5		
10	16QAM	50	25	19.17	19.28	19.32	19	5		
10	16QAM	1	49	19.16	19.16	19.15	19	5		
10	16QAM	25	0	19.17	19.18	19.23	19	5		
10	16QAM	25	12	19.11	19.22	19.34	19	5		
10	16QAM	25	25	19.06	19.20	19.11	19	5		
10	16QAM	50	0	19.34	19.20	19.22	19	5		
Channel Frequency (MHz)										
5	QPSK	1	0	22.84	22.29	22.29	24	0		
5	QPSK	1	12	22.80	22.49	22.49	24	0		
5	QPSK	1	24	22.78	22.43	22.46	24	0		
5	QPSK	12	0	21.81	21.46	21.29	23	1		
5	QPSK	12	13	21.82	21.23	21.18	23	1		
5	QPSK	25	0	21.76	21.15	21.17	23	1		
5	16QAM	1	0	21.88	21.39	21.31	23	1		
5	16QAM	1	12	21.79	21.17	21.45	23	1		
5	16QAM	12	0	20.73	20.32	20.21	22	2		
5	16QAM	12	7	20.56	20.20	20.30	22	2		
5	16QAM	12	13	20.50	20.27	20.28	22	2		
5	16QAM	25	0	20.51	20.15	20.03	22	2		
5	16QAM	25	0	20.59	20.15	20.04	22	2		
5	16QAM	1	12	20.62	20.00	20.07	21	3		
5	16QAM	12	0	19.85	19.40	19.24	19	5		
5	16QAM	12	7	19.66	19.19	19.55	19	5		
5	16QAM	12	13	19.59	19.21	19.32	19	5		
5	16QAM	25	0	19.74	19.30	19.43	19	5		
5	16QAM	25	7	19.23	19.24	19.29	19	5		
5	16QAM	1	12	19.17	19.26	19.32	19	5		
5	16QAM	12	0	19.16	19.16	19.15	19	5		
5	16QAM	12	7	19.17	19.18	19.23	19	5		
5	16QAM	12	13	19.06	19.20	19.11	19	5		
5	16QAM	25	0	19.34	19.20	19.22	19	5		

Band 38_Ant 2										
Ev (MHz)	Modulation	RB Size	RB Offset	Power Ch./Frac.	Power Max/Ch./Frac.	Power Min/Ch./Frac.	Time-up limit (min)	MPR (dB)		
Channel Frequency (MHz)										
20	QPSK	1	0	24.34	24.30	24.38	25	0		
20	QPSK	1	49	24.35	24.30	24.30	25	0		
20	QPSK	1	98	24.36	24.37	24.31	25	0		
20	QPSK	50	0	23.57	23.30	23.39	24	1		
20	QPSK	50	24	23.54	23.26	23.28	24	1		
20	QPSK	50	50	23.52	23.35	23.38	24	1		
20	16QAM	1	0	23.68	23.27	23.41	24	1		
20	16QAM	1	49	23.56	23.31	23.30	24	1		
20	16QAM	1	98	23.50	23.38	23.34	24	1		
20	16QAM	50	0	22.53	22.33	22.38	23	2		
20	16QAM	50	24	22.54	22.33	22.35	23	2		
20	16QAM	50	50	22.61	22.33	22.33	23	2		
20	16QAM	100	0	22.50	22.26	22.28	23	2		
20	16QAM	100	24	22.29	22.26	22.26	23	2		
20	16QAM	100	49	22.25	22.26	22.10	23	2		
20	16QAM	1	99	22.26	22.09	22.11	23	2		
20	16QAM	50	0	21.60	21.31	21.40	22	3		
20	16QAM	50	24	21.59	21.31	21.36	22	3		
20	16QAM	50	50	21.54	21.26	21.42	22	3		
20	16QAM	100	0	21.55	21.27	21.37	22	3		
20	16QAM	100	24	21.69	21.33	21.51	22	3		
20	16QAM	100	49	21.36	21.45	21.46	20	5		
20	16QAM	1	99	21.30	21.26	21.33	20	5		
20	16QAM	50	24	21.32	21.26	21.33	20	5		
20	16QAM	50	50	21.34	21.26	21.33	20	5		
20	16QAM	100	0	21.55	21.27	21.37	20	5		
20	16QAM	100	24	21.55	21.27	21.37	20	5		
20	16QAM	100	49	21.52	21.40	21.45	20	5		
Channel Frequency (MHz)										
15	QPSK	1	0	24.81	24.33	24.32	25	0		
15	QPSK	1	37	24.80	24.33	24.30	25	0		
15	QPSK	1	74	24.80	24.34	24.34	25	0		
15	QPSK	36	0	23.43	23.21	23.41	24	1		
15	QPSK	36	24	23.42	23.24	23.28	24	1		
15	QPSK	36	39	23.55	23.23	23.29	24	1		
15	16QAM	1	0	23.51	23.24	23.29	24	1		
15	16QAM	1	37	23.57	23.31	23.33	24	1		
15	16QAM	1	74	23.52	23.28	23.28	24	1		
15	16QAM	36	0	22.44	22.18	22.22	23	2		
15	16QAM	36	24	22.44	22.18	22.20	23	2		





Band 41_Ant 3												
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Power	Power	Time-req [ms] (dB)	MPE (dB)		
					Low	Mid	High	Low				Mid
Channel				39750	40185	40620	41055	41490				
Frequency [MHz]				25.12	25.33	25.57	25.80	26.02				
20	QPSK	1	0	25.12	25.33	25.57	25.80	26.02	25.7	0		
30	QPSK	1	0	25.12	25.33	25.57	25.80	26.02				
40	QPSK	1	0	25.12	25.33	25.57	25.80	26.02				
50	QPSK	50	0	24.18	24.48	24.87	24.87	24.81	24.7	1		
20	QPSK	50	0	24.18	24.48	24.87	24.87	24.81				
30	QPSK	50	0	24.18	24.38	24.52	24.51	24.47	23.7	2		
40	QPSK	50	0	24.18	24.38	24.52	24.51	24.47				
50	QPSK	50	0	24.18	24.38	24.52	24.51	24.47				
10	16QAM	1	0	24.22	24.38	24.38	24.45	24.64	24.7	1		
20	16QAM	1	0	24.13	24.45	24.38	24.46	24.55				
30	16QAM	1	0	24.19	24.47	24.46	24.46	24.55	23.7	2		
40	16QAM	50	0	23.13	23.51	23.90	23.49	23.83				
50	16QAM	50	0	23.17	23.53	23.44	23.48	23.57				
10	16QAM	100	0	23.25	23.51	23.46	23.53	23.58	23.7	2		
20	16QAM	100	0	23.19	23.47	23.42	23.52	23.58				
30	16QAM	1	0	23.17	23.19	23.21	23.20	23.23	22.7	3		
40	16QAM	50	0	22.14	22.48	22.38	22.48	22.56				
50	16QAM	50	0	22.24	22.50	22.42	22.45	22.58				
10	16QAM	100	0	22.25	22.50	22.48	22.51	22.53	20.7	5		
20	16QAM	100	0	22.17	22.42	22.38	22.48	22.53				
30	16QAM	1	0	20.28	20.13	20.24	20.26	20.15	20.7	5		
40	16QAM	1	0	20.38	20.19	20.19	20.20	20.17				
50	16QAM	1	0	20.18	20.24	20.27	20.26	20.33				
10	16QAM	50	0	20.20	20.22	20.24	20.23	20.30	20.7	5		
20	16QAM	50	0	20.20	20.22	20.24	20.23	20.30				
30	16QAM	50	0	20.13	20.19	20.24	20.23	20.34	20.7	5		
40	16QAM	50	0	20.13	20.19	20.24	20.23	20.34				
50	16QAM	100	0	20.13	20.19	20.24	20.23	20.34				
Channel				39750	40185	40620	41055	41490				
Frequency [MHz]				25.85	26.06	26.30	26.53	26.75				
15	QPSK	1	0	25.12	25.13	25.53	26.48	26.52	25.0	0		
15	QPSK	1	0	25.08	25.24	25.62	26.65	26.83				
15	QPSK	1	14	25.16	25.20	25.57	25.58	25.61	24.7	1		
15	QPSK	36	0	24.83	24.83	24.86	24.45	24.81				
15	QPSK	36	0	24.88	24.88	24.88	24.83	24.86	23.7	2		
15	QPSK	36	0	24.88	24.88	24.88	24.83	24.86				
15	QPSK	36	0	24.13	24.13	24.40	24.47	24.64	24.7	1		
15	QPSK	36	0	24.13	24.13	24.40	24.47	24.64				
15	16QAM	1	0	24.13	24.13	24.40	24.47	24.64	24.7	1		
15	16QAM	1	0	24.10	24.11	24.44	24.46	24.55				
15	16QAM	1	0	24.10	24.09	24.43	24.46	24.55	23.7	2		
15	16QAM	36	0	23.28	23.00	23.41	23.40	23.83				
15	16QAM	36	0	23.48	23.38	23.41	23.41	23.41	23.7	2		
15	16QAM	36	0	23.48	23.38	23.41	23.41	23.41				
15	16QAM	36	0	23.11	23.05	23.42	23.47	23.54	22.7	3		
15	16QAM	75	0	23.10	23.10	23.46	23.45	23.58				
15	16QAM	1	0	23.17	23.17	23.52	23.51	23.52	23.7	2		
15	16QAM	1	0	23.11	23.07	23.22	23.11	23.23				
15	16QAM	1	0	23.18	23.13	23.48	23.43	23.34	22.7	3		
15	16QAM	36	0	22.82	22.83	22.84	22.82	22.88				
15	16QAM	36	0	22.87	22.87	22.81	22.82	22.88	20.7	5		
15	16QAM	36	0	22.17	22.25	22.48	22.50	22.58				
15	16QAM	75	0	22.86	22.86	22.88	22.83	22.83	20.7	5		
15	16QAM	75	0	20.15	20.18	20.24	20.24	20.37				
15	16QAM	1	0	20.15	20.20	20.18	20.20	20.36	20.7	5		
15	16QAM	1	0	20.15	20.20	20.18	20.20	20.36				
15	16QAM	36	0	20.39	20.38	20.24	20.24	20.37	20.7	5		
15	16QAM	75	0	20.39	20.38	20.24	20.24	20.37				
Channel				39750	40185	40620	41055	41490				
Frequency [MHz]				26.85	26.85	27.00	26.93	26.93				
10	QPSK	1	0	25.10	25.53	25.47	25.44	25.57	25.0	0		
10	QPSK	1	0	25.11	25.53	25.48	25.45	25.57				
10	QPSK	1	0	24.18	24.38	24.38	24.44	24.51	24.7	1		
10	QPSK	24	0	24.08	24.43	24.42	24.41	24.87				
10	QPSK	24	0	24.07	24.46	24.46	24.46	24.87	24.7	1		
10	QPSK	25	0	24.09	24.46	24.46	24.46	24.87				
10	QPSK	25	0	24.07	24.46	24.46	24.46	24.86	24.7	1		
10	16QAM	1	0	24.07	24.42	24.39	24.44	24.51				
10	16QAM	1	0	24.16	24.42	24.42	24.46	24.52	23.7	2		
10	16QAM	1	0	24.09	24.48	24.48	24.48	24.51				
10	16QAM	25	0	23.04	23.80	23.43	23.44	23.57	23.7	2		
10	16QAM	25	0	23.09	23.47	23.48	23.48	23.57				
10	16QAM	25	0	23.15	23.31	23.39	23.52	23.58	23.7	2		
10	16QAM	50	0	23.10	23.30	23.44	23.41	23.56				
10	16QAM	50	0	23.09	23.17	23.18	23.18	23.22	22.7	3		
10	16QAM	25	0	22.08	22.46	22.45	22.47	22.58				
10	16QAM	25	0	22.15	22.51	22.46	22.51	22.58	20.7	5		
10	16QAM	50	0	22.06	22.44	22.25	22.44	22.56				
10	16QAM	1	0	20.44	20.19	20.25	20.21	20.37	20.7	5		
10	16QAM	1	0	20.34	20.21	20.25	20.21	20.36				
10	16QAM	25	0	20.35	20.24	20.24	20.23	20.28	20.7	5		
10	16QAM	25	0	20.29	20.18	20.20	20.41	20.40				
10	16QAM	50	0	20.22	20.12	20.24	20.20	20.21	20.7	5		
10	16QAM	50	0	20.22	20.12	20.24	20.20	20.21				

Band 41_Ant 5												
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Power	Power	Time-req [ms] (dB)	MPE (dB)		
					Low	Mid	High	Low				Mid
Channel				39750	40185	40620	41055	41490				
Frequency [MHz]				24.08	24.29	24.42	24.31	24.30				
20	QPSK	1	0	24.08	24.29	24.42	24.31	24.30	25.0	0		
30	QPSK	1	0	24.07	24.30	24.41	24.43	24.52				
40	QPSK	1	0	24.08	24.30	24.36	24.40	24.48	24.7	1		
50	QPSK	50	0	23.03	23.45	23.44	23.39	23.38				
20	QPSK	50	0	23.07	23.39	23.40	23.39	23.38	24.7	1		
30	QPSK	50	0	23.05	23.30	23.18	23.38	23.39				
40	QPSK	50	0	23.07	23.30	23.16	23.36	23.37	23.7	2		
50	QPSK	50	0	22.07	22.35	22.23	22.40	22.42				
10	16QAM	1	0	22.07	22.35	22.23	22.40	22.42	24.7	1		
20	16QAM	1	0	22.00	22.30	22.14	22.34	22.40				
30	16QAM	1	0	22.09	22.30	22.18	22.38	22.45	23.7	2		
40	16QAM	50	0	22.09	22.32	22.13	22.42	22.37				
50	16QAM	50	0	22.10	22.30	22.11	22.30	22.30	23.7	2		
10	16QAM	100	0	22.07	22.35	22.23	22.40	22.42				
20	16QAM	100	0	22.07	22.30	22.15	22.36	22.39	23.7	2		
30	16QAM	1	0	21.75	22.09	22.03	22.11	22.28				
40	16QAM	1	0	21.75	22.09	22.03	22.11	22.28	22.7	3		
50	16QAM	50	0	21.06	21.25	21.14	21.38	21.40				
20	16QAM	50	0	21.06	21.29	21.18	21.32	21.37	22.7	3		
30	16QAM	50	0	21.11	21.37	21.25	21.38	21.44				
40	16QAM	100	0	21.04	21.38	21.14	21.38	21.30	20.7	5		
50	16QAM	100	0	21.00	21.41	21.06	21.40	21.43				
20	16QAM	1	0	19.87	19.20	19.36	19.41	19.67	20.7	5		
30	16QAM	1	0	19.81	19.80	19.59	19.26	19.32				
40	16QAM	1	0	19.82	19.82	19.59	19.26	19.32	20.7	5		
50	16QAM	50	0	19.84	19.24	19.59	19.10	19.60				
20	16QAM	50	0	19.85	19.26	19.59	19.10	19.36	20.7	5		
30	16QAM	100	0	19.75	19.54	19.20	19.68	19.43				
Channel				39750	40185	40620	41055	41490				
Frequency [MHz]				24.08	24.29	24.42	24.30	24.30				
15	QPSK	1	0	24.08	24.28	24.10	24.32	24.32	25.0	0		
15	QPSK	1	0	24.01	24.28	24.11	24.43	24.30				
15	QPSK	1	14	24.07	24.33	24.19	24.32	24.43	24.7	1		
15	QPSK	36	0	22.88	23.28	23.10	23.32	23.31				
15	QPSK	36	0	22.89	23.28	23.10	23.32	23.32	24.7	1		
15	QPSK	36	0	22.89	23.28	23.08	23.31	23.34				
15	QPSK											



DSI 4

GSM850_Ant 0	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM 1 Tx slot	32.78	32.84	32.77	34.00	23.78	23.84	23.77	25.00
GPRS 1 Tx slot	33.03	33.01	33.00	34.00	24.03	24.01	24.00	25.00
GPRS 2 Tx slots	29.76	29.75	29.78	31.00	23.78	23.75	23.78	25.00
GPRS 3 Tx slots	27.74	27.85	27.81	29.20	23.48	23.59	23.55	24.94
GPRS 4 Tx slots	26.26	26.33	26.32	28.00	23.26	23.33	23.32	25.00
EDGE 1 Tx slot	27.16	27.09	27.11	28.00	18.16	18.09	18.11	19.00
EDGE 2 Tx slots	23.94	23.91	24.19	25.00	17.94	17.91	18.19	19.00
EDGE 3 Tx slots	22.07	22.02	22.31	23.20	17.81	17.76	18.05	18.94
EDGE 4 Tx slots	20.58	20.56	20.67	22.00	17.58	17.56	17.67	19.00

GSM850_Ant 1	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251	Limit	128	189	251	Limit
Frequency (MHz)	824.2	836.4	848.8	(dBm)	824.2	836.4	848.8	(dBm)
GSM 1 Tx slot	27.54	27.57	27.63	29.00	18.54	18.57	18.63	20.00
GPRS 1 Tx slot	27.54	27.63	27.69	29.00	18.64	18.63	18.69	20.00
GPRS 2 Tx slots	24.44	24.42	24.58	26.00	18.44	18.42	18.58	20.00
GPRS 3 Tx slots	22.49	22.51	22.63	24.20	18.23	18.25	18.37	19.94
GPRS 4 Tx slots	21.09	21.12	21.01	23.00	18.09	18.12	18.01	20.00
EDGE 1 Tx slot	21.64	21.45	21.50	23.00	12.64	12.45	12.50	14.00
EDGE 2 Tx slots	18.32	18.32	18.41	20.00	12.32	12.32	12.41	14.00
EDGE 3 Tx slots	16.61	16.44	16.34	18.20	12.35	12.18	12.08	13.94
EDGE 4 Tx slots	15.17	15.12	15.05	17.00	12.17	12.12	12.05	14.00

GSM1900_Ant 2	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	681	810		512	681	810	
TX Channel	512	681	810	Limit	512	681	810	Limit
Frequency (MHz)	1852.2	1880	1909.8	(dBm)	1852.2	1880	1909.8	(dBm)
GSM 1 Tx slot	28.90	28.91	28.75	29.50	19.90	19.91	19.75	20.50
GPRS 1 Tx slot	28.95	28.90	28.74	29.50	19.95	19.90	19.74	20.50
GPRS 2 Tx slots	25.70	25.74	25.63	26.50	19.70	19.74	19.63	20.50
GPRS 3 Tx slots	23.80	23.82	23.74	24.70	19.54	19.56	19.48	20.44
GPRS 4 Tx slots	22.41	22.47	22.35	23.50	19.41	19.47	19.35	20.50
EDGE 1 Tx slot	24.88	24.85	24.73	25.00	15.88	15.85	15.73	16.00
EDGE 2 Tx slots	21.76	21.79	21.76	22.00	15.76	15.79	15.76	16.00
EDGE 3 Tx slots	19.98	20.05	19.94	20.20	15.72	15.79	15.68	15.94
EDGE 4 Tx slots	18.45	18.34	18.20	19.00	15.45	15.34	15.20	16.00

GSM1900_Ant 5	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	681	810		512	681	810	
TX Channel	512	681	810	Limit	512	681	810	Limit
Frequency (MHz)	1852.2	1880	1909.8	(dBm)	1852.2	1880	1909.8	(dBm)
GSM 1 Tx slot	24.71	24.76	24.79	26.00	15.71	15.76	15.79	17.00
GPRS 1 Tx slot	24.46	24.53	24.32	26.00	15.46	15.53	15.32	17.00
GPRS 2 Tx slots	21.21	21.31	21.23	23.00	15.21	15.31	15.23	17.00
GPRS 3 Tx slots	19.43	19.41	19.26	21.20	15.17	15.15	15.00	16.94
GPRS 4 Tx slots	18.21	18.32	18.31	20.00	15.21	15.32	15.31	17.00
EDGE 1 Tx slot	21.22	21.01	20.87	21.50	12.22	12.01	11.87	12.50
EDGE 2 Tx slots	17.76	17.51	17.74	18.50	11.76	11.51	11.74	12.50
EDGE 3 Tx slots	15.58	15.63	15.50	16.70	11.32	11.37	11.24	12.44
EDGE 4 Tx slots	14.04	14.08	14.01	15.50	11.04	11.06	11.01	12.50

Band	WCDMA II_Ant 2			Tune-up Limit (dBm)	WCDMA II_Ant 5			Tune-up Limit (dBm)	
	9262	9400	9538		9262	9400	9538		
TX Channel	9262	9400	9538	Limit	9262	9400	9538	Limit	
Rx Channel	9662	9800	9938	(dBm)	9662	9800	9938	(dBm)	
Frequency (MHz)	1852.4	1880	1907.6		1852.4	1880	1907.6		
3GPP Rel 99	AMR 12.2Kbps	19.92	19.92	19.88	21.00	17.32	17.33	17.26	19.00
3GPP Rel 99	RMC 12.2Kbps	19.93	19.94	19.89	21.00	17.35	17.36	17.27	19.00
3GPP Rel 6	HSDPA Subtest-1	19.05	18.91	18.81	20.00	16.44	16.46	16.34	18.00
3GPP Rel 6	HSDPA Subtest-2	19.04	18.85	18.90	20.00	16.41	16.41	16.44	18.00
3GPP Rel 6	HSDPA Subtest-3	18.36	18.38	18.34	19.50	15.94	15.98	15.81	17.50
3GPP Rel 6	HSDPA Subtest-4	18.41	18.42	18.38	19.50	15.91	15.95	15.91	17.50
3GPP Rel 8	DC-HSDPA Subtest-1	18.91	18.83	18.78	20.00	16.21	16.19	16.27	18.00
3GPP Rel 8	DC-HSDPA Subtest-2	19.03	18.93	18.90	20.00	16.12	16.22	16.15	18.00
3GPP Rel 8	DC-HSDPA Subtest-3	18.44	18.31	18.33	19.50	15.80	15.97	15.70	17.50
3GPP Rel 8	DC-HSDPA Subtest-4	18.41	18.39	18.23	19.50	15.96	15.91	15.88	17.50
3GPP Rel 6	HSUPA Subtest-1	18.89	18.90	18.82	20.00	13.42	13.48	13.41	18.00
3GPP Rel 6	HSUPA Subtest-2	17.00	16.90	16.79	18.00	13.41	13.45	13.45	16.00
3GPP Rel 6	HSUPA Subtest-3	17.88	17.79	17.91	19.00	14.62	14.61	14.76	17.00
3GPP Rel 6	HSUPA Subtest-4	16.96	16.98	16.79	18.00	12.94	13.11	12.96	16.00
3GPP Rel 6	HSUPA Subtest-5	19.03	18.85	18.85	20.00	14.56	14.51	14.52	18.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.88	15.96	15.81	17.50	13.25	13.36	13.38	15.50

Band	WCDMA IV_Ant 2			Tune-up Limit (dBm)	WCDMA IV_Ant 5			Tune-up Limit (dBm)	
	1312	1413	1513		1312	1413	1513		
TX Channel	1312	1413	1513	Limit	1312	1413	1513	Limit	
Rx Channel	1537	1638	1738	(dBm)	1537	1638	1738	(dBm)	
Frequency (MHz)	1722.4	1722.6	1722.6		1722.4	1722.4	1722.6		
3GPP Rel 99	AMR 12.2Kbps	21.07	21.11	21.04	22.00	17.16	17.33	17.23	19.00
3GPP Rel 99	RMC 12.2Kbps	21.09	21.12	21.06	22.00	17.18	17.34	17.28	19.00
3GPP Rel 6	HSDPA Subtest-1	20.07	20.14	20.19	21.00	16.34	16.51	16.46	18.00
3GPP Rel 6	HSDPA Subtest-2	20.03	20.19	20.13	21.00	16.41	16.48	16.36	18.00
3GPP Rel 6	HSDPA Subtest-3	19.53	19.72	19.76	20.50	15.92	16.05	15.89	17.50
3GPP Rel 6	HSDPA Subtest-4	19.53	19.65	19.62	20.50	15.74	16.05	15.96	17.50
3GPP Rel 6	DC-HSDPA Subtest-1	20.03	20.25	20.23	21.00	16.35	16.22	16.17	18.00
3GPP Rel 8	DC-HSDPA Subtest-2	20.03	20.22	20.12	21.00	16.32	16.37	16.36	18.00
3GPP Rel 8	DC-HSDPA Subtest-3	19.60	19.63	19.65	20.50	15.74	15.72	15.89	17.50
3GPP Rel 8	DC-HSDPA Subtest-4	19.52	19.79	19.57	20.50	15.75	15.85	15.76	17.50
3GPP Rel 6	HSUPA Subtest-1	20.06	20.19	20.26	21.00	14.12	14.19	14.16	18.00
3GPP Rel 6	HSUPA Subtest-2	18.03	18.31	18.07	19.00	14.07	14.20	14.24	16.00
3GPP Rel 6	HSUPA Subtest-3	19.15	19.24	19.13	20.00	15.11	15.32	15.15	17.00
3GPP Rel 6	HSUPA Subtest-4	18.09	18.25	18.12	19.00	13.69	13.85	13.57	16.00
3GPP Rel 6	HSUPA Subtest-5	20.11	20.21	20.18	21.00	15.04	15.14	15.12	18.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.08	17.25	17.17	18.50	13.95	13.99	13.97	12.50

Band	WCDMA V_Ant 0			Tune-up Limit (dBm)	WCDMA V_Ant 1			Tune-up Limit (dBm)	
	4132	4182	4233		4132	4182	4233		
TX Channel	4132	4182	4233	Limit	4132	4182	4233	Limit	
Rx Channel	4357	4407	4458	(dBm)	4357	4407	4458	(dBm)	
Frequency (MHz)	826.4	836.4	846.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	22.77	22.81	22.76	24.00	19.01	19.03	19.00	21.00
3GPP Rel 99	RMC 12.2Kbps	22.79	22.83	22.79	24.00	19.05	19.06	19.01	21.00
3GPP Rel 6	HSDPA Subtest-1	21.89	21.84	21.74	23.00	18.05	18.04	18.09	20.00
3GPP Rel 6	HSDPA Subtest-2	21.70	21.75	21.74	23.00	18.04	18.06	18.01	20.00
3GPP Rel 6	HSDPA Subtest-3	21.25	21.31	21.40	22.50	17.59	17.59	17.52	19.50
3GPP Rel 6	HSDPA Subtest-4	21.11	21.29	21.39	22.50	17.52	17.53	17.55	19.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.67	21.85	21.85	23.00	18.03	18.03	18.10	20.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.58	21.76	21.74	23.00	18.04	18.00	18.22	20.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.11	21.36	21.40	22.50	17.59	17.50	17.55	19.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.08	21.27	21.20	22.50	17.53	17.60	17.57	19.50
3GPP Rel 6	HSUPA Subtest-1	21.76	21.95	21.89	23.00	14.99	15.21	15.04	20.00
3GPP Rel 6	HSUPA Subtest-2	19.58	19.94	19.77	21.00	13.01	13.10	13.00	18.00
3GPP Rel 6	HSUPA Subtest-3	20.78	20.83	20.73	22.00	14.04	14.14	14.19	19.00
3GPP Rel 6	HSUPA Subtest-4	19.60	19.85	19.72	21.00	14.84	14.71		











Band 26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Mid	Power High	Time-up (min)	MPK (dB)	
Channel									
Frequency (MHz)									
14	QPSK	1	0	25.13	25.13	25.13	25.7	0	
14	QPSK	1	37	25.13	25.18	25.07			
14	QPSK	1	74	25.12	25.25	25.07			
14	QPSK	36	0	23.81	23.87	23.78			
14	QPSK	36	20	23.77	23.80	23.79			
14	QPSK	36	37	23.76	23.81	23.81			
14	16QAM	1	0	24.02	24.02	24.02	24.7	1	
14	16QAM	1	37	24.06	24.21	24.28			
14	16QAM	1	74	24.11	24.39	24.50			
14	16QAM	36	0	22.74	22.74	22.74			
14	16QAM	36	20	22.79	22.82	22.77			
14	16QAM	36	37	22.77	22.80	22.71			
14	16QAM	75	0	22.78	22.84	22.81			
14	8QAM	1	0	22.77	22.80	22.79			
14	8QAM	1	37	22.80	22.85	22.85			
14	8QAM	1	74	22.77	22.89	22.94			
14	8QAM	36	0	21.80	21.79	21.79			
14	8QAM	36	20	21.84	21.78	21.83			
14	8QAM	36	37	21.76	21.77	21.76			
14	8QAM	75	0	21.72	21.75	21.80			
14	25QAM	1	0	19.97	19.89	19.84			
14	25QAM	1	74	19.98	19.88	19.88			
14	25QAM	36	0	19.86	19.87	19.74			
14	25QAM	36	37	19.82	19.85	19.85			
14	25QAM	75	0	19.82	19.84	19.74			
14	25QAM	75	37	19.81	19.85	19.85			
Channel									
Frequency (MHz)									
14	QPSK	1	0	24.71	24.74	24.69	25.7	0	
14	QPSK	1	37	24.78	24.82	24.71			
14	QPSK	1	74	24.84	24.87	24.78			
14	QPSK	36	0	23.82	23.78	23.88			
14	QPSK	36	20	23.78	23.83	23.83			
14	QPSK	36	37	23.82	23.82	23.83			
14	16QAM	1	0	24.28	24.28	24.28	24.7	1	
14	16QAM	1	37	24.28	24.37	24.56			
14	16QAM	1	74	24.28	24.56	24.66			
14	16QAM	36	0	22.85	22.85	22.85			
14	16QAM	36	20	22.72	22.72	22.72			
14	16QAM	36	37	22.75	22.80	22.80			
14	16QAM	75	0	22.81	22.88	22.85			
14	8QAM	1	0	22.87	22.88	22.85			
14	8QAM	1	37	22.89	22.92	22.92			
14	8QAM	1	74	22.87	22.92	22.92			
14	8QAM	36	0	21.89	21.89	21.89			
14	8QAM	36	20	21.79	21.72	21.74			
14	8QAM	36	37	21.77	21.81	21.74			
14	8QAM	75	0	21.82	21.87	21.84			
14	25QAM	1	0	19.87	19.85	19.85			
14	25QAM	1	74	19.71	19.75	19.75			
14	25QAM	36	0	19.82	19.84	19.84			
14	25QAM	36	37	19.77	19.74	19.82			
14	25QAM	75	0	19.81	19.82	19.81			
14	25QAM	75	37	19.81	19.82	19.81			
Channel									
Frequency (MHz)									
14	QPSK	1	0	24.73	24.73	24.73	25.7	0	
14	QPSK	1	37	24.78	24.78	24.78			
14	QPSK	1	74	24.78	24.78	24.78			
14	QPSK	36	0	23.83	23.82	23.83			
14	QPSK	36	20	23.77	23.84	23.74			
14	QPSK	36	37	23.77	23.84	23.74			
14	16QAM	1	0	24.31	24.31	24.31	24.7	1	
14	16QAM	1	37	24.31	24.39	24.58			
14	16QAM	1	74	24.31	24.58	24.68			
14	16QAM	36	0	22.86	22.86	22.86			
14	16QAM	36	20	22.72	22.72	22.72			
14	16QAM	36	37	22.75	22.80	22.80			
14	16QAM	75	0	22.82	22.83	22.83			
14	8QAM	1	0	22.87	22.88	22.85			
14	8QAM	1	37	22.89	22.92	22.92			
14	8QAM	1	74	22.87	22.92	22.92			
14	8QAM	36	0	21.89	21.89	21.89			
14	8QAM	36	20	21.79	21.72	21.74			
14	8QAM	36	37	21.77	21.81	21.74			
14	8QAM	75	0	21.82	21.87	21.84			
14	25QAM	1	0	19.87	19.85	19.85			
14	25QAM	1	74	19.71	19.75	19.75			
14	25QAM	36	0	19.82	19.84	19.84			
14	25QAM	36	37	19.77	19.74	19.82			
14	25QAM	75	0	19.81	19.82	19.81			
14	25QAM	75	37	19.81	19.82	19.81			
Channel									
Frequency (MHz)									
14	QPSK	1	0	24.75	24.75	24.75	25.7	0	
14	QPSK	1	37	24.80	24.80	24.80			
14	QPSK	1	74	24.80	24.80	24.80			
14	QPSK	36	0	23.84	23.83	23.84			
14	QPSK	36	20	23.78	23.85	23.85			
14	QPSK	36	37	23.78	23.85	23.85			
14	16QAM	1	0	24.33	24.33	24.33	24.7	1	
14	16QAM	1	37	24.33	24.41	24.60			
14	16QAM	1	74	24.33	24.60	24.70			
14	16QAM	36	0	22.87	22.87	22.87			
14	16QAM	36	20	22.72	22.72	22.72			
14	16QAM	36	37	22.75	22.80	22.80			
14	16QAM	75	0	22.83	22.84	22.84			
14	8QAM	1	0	22.87	22.88	22.85			
14	8QAM	1	37	22.89	22.92	22.92			
14	8QAM	1	74	22.87	22.92	22.92			
14	8QAM	36	0	21.89	21.89	21.89			
14	8QAM	36	20	21.79	21.72	21.74			
14	8QAM	36	37	21.77	21.81	21.74			
14	8QAM	75	0	21.82	21.87	21.84			
14	25QAM	1	0	19.87	19.85	19.85			
14	25QAM	1	74	19.71	19.75	19.75			
14	25QAM	36	0	19.82	19.84	19.84			
14	25QAM	36	37	19.77	19.74	19.82			
14	25QAM	75	0	19.81	19.82	19.81			
14	25QAM	75	37	19.81	19.82	19.81			
Channel									
Frequency (MHz)									
14	QPSK	1	0	24.77	24.77	24.77	25.7	0	
14	QPSK	1	37	24.82	24.82	24.82			
14	QPSK	1	74	24.82	24.82	24.82			
14	QPSK	36	0	23.85	23.84	23.85			
14	QPSK	36	20	23.79	23.86	23.86			
14	QPSK	36	37	23.79	23.86	23.86			
14	16QAM	1	0	24.35	24.35	24.35	24.7	1	
14	16QAM	1	37	24.35	24.43	24.62			
14	16QAM	1	74	24.35	24.62	24.72			
14	16QAM	36	0	22.89	22.89	22.89			
14	16QAM	36	20	22.74	22.74	22.74			
14	16QAM	36	37	22.77	22.82	22.82			
14	16QAM	75	0	22.84	22.85	22.85			
14	8QAM	1	0	22.87	22.88	22.85			
14	8QAM	1	37	22.89	22.92	22.92			
14	8QAM	1	74	22.87	22.92	22.92			
14	8QAM	36	0	21.89	21.89	21.89			
14	8QAM	36	20	21.79	21.72	21.74			
14	8QAM	36	37	21.77	21.81	21.74			
14	8QAM	75	0	21.82	21.87	21.84			
14	25QAM	1	0	19.87	19.85	19.85			
14	25QAM	1	74	19.71	19.75	19.75			
14	25QAM	36	0	19.82	19.84	19.84			
14	25QAM	36	37	19.77	19.74	19.82			
14	25QAM	75	0	19.81	19.82	19.81			
14	25QAM	75	37	19.81	19.82	19.81			

Band 26_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Mid	Power High	Time-up (min)	MPK (dB)	
Channel									
Frequency (MHz)									
14	QPSK	1	0	21.84	21.84	21.84	22.7	0	
14	QPSK	1	37	21.88	21.84	21.88			
14	QPSK	1	74	21.92	21.98	21.88			
14	QPSK	36	0	21.79	21.85				



Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (MHz)	MFR (dB)		
Channel										
Frequency (MHz)				37650	38050	38450				
20	QPSK	1	0	21.73	21.78	21.70				
20	QPSK	1	49	21.84	21.72	21.82	23	0		
20	QPSK	1	99	22.09	21.80	21.91				
20	QPSK	50	0	21.88	21.76	21.72				
20	QPSK	50	24	21.76	21.76	21.74	23	0		
20	QPSK	100	0	21.77	21.68	21.72				
20	16QAM	1	0	21.76	21.70	21.75				
20	16QAM	1	49	21.78	21.71	21.80	23	0		
20	16QAM	1	99	21.88	21.72	21.75				
20	16QAM	50	0	20.75	20.79	20.80				
20	16QAM	50	24	20.75	20.79	20.79	22	1		
20	16QAM	100	0	20.76	20.70	20.75				
20	64QAM	1	0	20.49	20.45	20.43				
20	64QAM	1	49	20.52	20.46	20.51	22	1		
20	64QAM	1	99	20.57	20.55	20.43				
20	64QAM	50	0	19.71	19.75	19.72				
20	64QAM	50	24	19.76	19.74	19.75	21	2		
20	64QAM	100	0	19.72	19.76	19.78				
20	256QAM	1	0	19.76	19.75	19.70				
20	256QAM	1	49	17.58	17.66	17.72				
20	256QAM	1	99	17.70	17.63	17.61	19	4		
20	256QAM	50	0	17.58	17.56	17.68				
20	256QAM	50	24	17.37	17.56	17.27	19	4		
20	256QAM	100	0	17.41	17.38	17.30				
Channel										
Frequency (MHz)				37650	38050	38450	Tune-up limit (MHz)	MFR (dB)		
15	QPSK	1	0	21.70	21.77	21.65				
15	QPSK	1	37	21.79	21.69	21.65	23	0		
15	QPSK	1	74	22.08	21.89	21.67				
15	QPSK	50	0	21.84	21.70	21.69				
15	QPSK	50	24	21.74	21.64	21.73	23	0		
15	QPSK	100	0	21.78	21.68	21.71				
15	16QAM	1	0	21.73	21.67	21.63				
15	16QAM	1	49	21.72	21.63	21.72	23	0		
15	16QAM	1	97	21.88	21.65	21.70				
15	16QAM	50	0	20.68	20.74	20.79				
15	16QAM	50	24	20.69	20.74	20.79	22	1		
15	16QAM	100	0	20.75	20.70	20.68				
15	16QAM	75	0	20.68	20.60	20.72				
15	64QAM	1	0	20.41	20.41	20.47				
15	64QAM	1	37	20.51	20.44	20.42	22	1		
15	64QAM	1	74	20.51	20.42	20.44				
15	64QAM	50	0	19.69	19.65	19.52				
15	64QAM	50	24	19.73	19.64	19.75	21	2		
15	64QAM	100	0	19.71	19.70	19.68				
15	256QAM	1	0	17.50	17.65	17.70				
15	256QAM	1	37	17.62	17.65	17.59	19	4		
15	256QAM	1	74	17.61	17.61	17.47				
15	256QAM	50	0	17.52	17.54	17.54				
15	256QAM	50	24	17.45	17.33	17.25	19	4		
15	256QAM	100	0	17.41	17.27	17.25				
Channel										
Frequency (MHz)				37650	38050	38450	Tune-up limit (MHz)	MFR (dB)		
10	QPSK	1	0	21.69	21.76	21.70				
10	QPSK	1	25	21.75	21.66	21.78	23	0		
10	QPSK	1	50	21.83	21.67	21.67				
10	QPSK	25	0	21.83	21.74	21.83				
10	QPSK	25	12	21.77	21.68	21.66	23	0		
10	QPSK	50	0	21.77	21.72	21.69				
10	QPSK	50	0	21.72	21.62	21.69				
10	16QAM	1	0	21.71	21.65	21.70				
10	16QAM	1	25	21.73	21.65	21.75	23	0		
10	16QAM	1	49	21.86	21.68	21.73				
10	16QAM	25	0	20.75	20.76	20.80				
10	16QAM	25	12	20.87	20.82	20.69	22	1		
10	16QAM	50	0	20.74	20.86	20.72				
10	16QAM	50	0	20.66	20.70	20.68				
10	64QAM	1	0	20.42	20.38	20.33				
10	64QAM	1	25	20.53	20.40	20.40	22	1		
10	64QAM	1	49	20.46	20.53	20.37				
10	64QAM	25	0	19.50	19.74	19.65				
10	64QAM	25	12	19.69	19.70	19.78	21	2		
10	64QAM	50	0	19.73	19.66	19.67				
10	256QAM	1	0	17.52	17.61	17.66				
10	256QAM	1	25	17.68	17.47	17.60	19	4		
10	256QAM	1	49	17.60	17.54	17.54				
10	256QAM	25	0	17.52	17.45	17.45				
10	256QAM	25	12	17.35	17.34	17.26	19	4		
10	256QAM	50	0	17.41	17.33	17.27				
10	256QAM	50	0	17.38	17.37	17.30				

Band 38_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (MHz)	MFR (dB)		
Channel										
Frequency (MHz)				37950	38350	38750				
20	QPSK	1	0	21.21	21.21	21.20				
20	QPSK	1	49	21.36	21.22	21.29	22	0		
20	QPSK	1	99	21.43	21.26	21.35				
20	QPSK	50	0	21.42	21.19	21.21				
20	QPSK	50	24	21.45	21.39	21.31	22	0		
20	QPSK	100	0	21.38	21.27	21.27				
20	16QAM	1	0	21.25	21.21	21.22				
20	16QAM	1	49	21.41	21.30	21.38	22	0		
20	16QAM	1	99	21.45	21.43	21.41				
20	16QAM	50	0	21.45	21.22	21.21				
20	16QAM	50	24	21.41	21.25	21.26	22	0		
20	16QAM	100	0	21.45	21.22	21.24				
20	64QAM	1	0	21.62	20.91	20.98				
20	64QAM	1	49	21.43	21.63	21.00	22	0		
20	64QAM	1	99	21.17	21.12	21.68				
20	64QAM	50	0	21.35	21.34	21.04				
20	64QAM	50	24	21.33	21.31	21.35	22	0		
20	64QAM	100	0	21.40	21.32	21.27				
20	256QAM	1	0	19.35	19.38	19.38				
20	256QAM	1	49	19.52	19.35	19.30	20.5	1.5		
20	256QAM	1	99	19.55	19.49	19.50				
20	256QAM	50	0	19.74	19.65	19.65				
20	256QAM	50	24	19.71	19.61	19.66	20.5	1.5		
20	256QAM	100	0	19.71	19.68	19.64				
20	256QAM	100	0	19.84	19.70	19.71				
Channel										
Frequency (MHz)				37950	38350	38750	Tune-up limit (MHz)	MFR (dB)		
15	QPSK	1	0	21.16	21.11	21.11				
15	QPSK	1	37	21.29	21.18	21.19	22	0		
15	QPSK	1	74	21.44	21.27	21.26				
15	QPSK	50	0	21.33	21.25	21.26				
15	QPSK	50	24	21.38	21.25	21.28	22	0		
15	QPSK	100	0	21.33	21.34	21.31				
15	16QAM	1	0	21.27	21.27	21.17				
15	16QAM	1	49	21.24	21.24	21.16				
15	16QAM	1	97	21.38	21.29	21.32	22	0		
15	16QAM	50	0	21.32	21.33	21.33				
15	16QAM	50	24	21.26	21.13	21.11	22	0		
15	16QAM	100	0	21.41	21.17	21.16				
15	16QAM	75	0	21.38	21.37	21.23				
15	16QAM	75	0	21.31	21.21	21.13				
15	64QAM	1	0	21.09	20.89	20.89				
15	64QAM	1	37	21.13	21.09	20.99	22	0		
15	64QAM	1	74	21.15	21.05	21.14				
15	64QAM	50	0	21.32	21.20	21.15				
15	64QAM	50	24	21.33	21.21	21.24	22	0		
15	64QAM	100	0	21.31	21.19	21.18				
15	256QAM	1	0	19.24	19.26	19.25				
15	256QAM	1	37	19.55	19.24	19.28	20.5	1.5		
15	256QAM	1	74	19.56	19.47	19.45				
15	256QAM	50	0	19.55	19.56	19.55				
15	256QAM	50	24	19.71	19.56	19.55	20.5	1.5		
15	256QAM	100	0	19.62	19.61	19.57				
15	256QAM	100	0	19.72	19.63	19.68				
Channel										
Frequency (MHz)				37950	38350	38750	Tune-up limit (MHz)	MFR (dB)		
10	QPSK	1	0	21.15	21.17	21.10				
10	QPSK	1	25	21.34	21.17	21.24	22	0		
10	QPSK	1	50	21.42	21.26	21.33				
10	QPSK	25	0	21.34	21.10	21.13				
10	QPSK	25	12	21.37	21.26	21.28	22	0		
10	QPSK	50	0	21.32	21.12	21.22				
10	QPSK	50	0	21.27	21.23	21.23				
10	16QAM	1	0	21.22	21.20	21.14				
10	16QAM	1	25	21.35	21.26	21.31	22	0		
10	16QAM	1	49	21.44	21.42	21.40				
10	16QAM	25	0	21.32	21.12	21				



### Band 38\_Ant 5

BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch / Freq	Power Level Ch / Freq	Power Level Ch / Freq	Turn-up Int (dBm)	MFR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	16.92	16.92	16.92	18	0
20	QPSK	1	49	16.91	16.87	16.84	18	0
20	QPSK	1	99	17.21	16.87	16.84	18	0
20	QPSK	59	0	17.11	16.93	17.00	18	0
20	QPSK	59	49	17.02	17.05	17.00	18	0
20	QPSK	59	99	17.03	17.04	16.96	18	0
20	QPSK	100	0	17.02	16.96	16.97	18	0
20	16QAM	1	0	17.02	17.05	17.00	18	0
20	16QAM	1	49	17.14	17.13	17.10	18	0
20	16QAM	1	99	17.18	17.16	17.15	18	0
20	16QAM	59	0	17.02	17.05	17.00	18	0
20	16QAM	59	49	17.07	16.98	17.08	18	0
20	16QAM	59	99	17.05	17.05	16.97	18	0
20	16QAM	100	0	17.00	16.95	16.95	18	0
20	64QAM	1	0	16.98	17.01	16.94	18	0
20	64QAM	1	49	17.02	17.03	16.91	18	0
20	64QAM	1	99	17.13	17.01	17.09	18	0
20	64QAM	59	0	17.01	16.93	17.04	18	0
20	64QAM	59	49	17.07	17.04	17.03	18	0
20	64QAM	59	99	17.03	17.04	16.97	18	0
20	256QAM	1	0	16.82	16.85	16.87	18	0
20	256QAM	1	49	16.94	16.86	16.89	18	0
20	256QAM	1	99	17.02	16.87	16.89	18	0
20	256QAM	59	0	16.86	16.81	16.88	18	0
20	256QAM	59	49	16.89	16.87	16.91	18	0
20	256QAM	59	99	16.84	16.86	16.89	18	0
20	256QAM	100	0	16.87	16.79	16.83	18	0
Channel								
Frequency (MHz)								
15	QPSK	1	0	16.87	16.78	16.79	18	0
15	QPSK	1	49	16.84	16.78	16.79	18	0
15	QPSK	1	99	17.11	16.89	16.83	18	0
15	QPSK	59	0	17.00	16.89	16.89	18	0
15	QPSK	59	49	16.87	17.02	16.94	18	0
15	QPSK	59	99	16.97	16.94	17.07	18	0
15	16QAM	1	0	17.01	17.03	17.02	18	0
15	16QAM	1	49	17.14	17.09	17.10	18	0
15	16QAM	1	99	17.17	17.08	17.08	18	0
15	16QAM	59	0	16.89	16.95	16.91	18	0
15	16QAM	59	49	16.84	16.94	16.93	18	0
15	16QAM	59	99	16.99	16.98	16.97	18	0
15	16QAM	100	0	16.94	16.93	16.89	18	0
15	64QAM	1	0	17.02	16.95	16.92	18	0
15	64QAM	1	49	17.01	16.91	16.97	18	0
15	64QAM	1	99	17.11	16.94	16.99	18	0
15	64QAM	59	0	16.89	16.83	16.91	18	0
15	64QAM	59	49	16.89	16.83	16.91	18	0
15	256QAM	1	0	16.70	16.91	16.84	18	0
15	256QAM	1	49	16.81	16.81	16.86	18	0
15	256QAM	1	99	17.04	16.79	16.88	18	0
15	256QAM	59	0	16.82	16.86	16.88	18	0
15	256QAM	59	49	16.85	16.87	16.85	18	0
15	256QAM	59	99	16.83	16.83	16.79	18	0
15	256QAM	100	0	16.84	16.75	16.81	18	0
Channel								
Frequency (MHz)								
10	QPSK	1	0	16.86	16.77	16.78	18	0
10	QPSK	1	25	16.87	16.76	16.80	18	0
10	QPSK	1	50	17.02	16.82	16.82	18	0
10	QPSK	25	0	17.02	16.90	16.91	18	0
10	QPSK	25	12	16.89	17.02	16.94	18	0
10	QPSK	25	37	16.88	16.97	16.89	18	0
10	QPSK	50	0	16.99	16.86	16.89	18	0
10	16QAM	1	0	17.01	17.02	17.02	18	0
10	16QAM	1	49	17.17	17.13	17.08	18	0
10	16QAM	1	99	17.15	17.03	17.07	18	0
10	16QAM	25	12	17.00	16.91	17.07	18	0
10	16QAM	25	37	17.02	16.98	17.00	18	0
10	16QAM	50	0	16.99	16.94	16.99	18	0
10	64QAM	1	0	16.94	16.96	16.94	18	0
10	64QAM	1	25	16.95	17.01	16.93	18	0
10	64QAM	1	50	17.03	17.00	17.07	18	0
10	64QAM	25	0	17.01	16.92	17.03	18	0
10	64QAM	25	12	17.07	16.95	17.00	18	0
10	64QAM	25	37	16.91	16.92	16.86	18	0
10	256QAM	1	0	16.71	16.87	16.85	18	0
10	256QAM	1	25	16.87	16.78	16.79	18	0
10	256QAM	1	50	16.94	16.85	16.84	18	0
10	256QAM	25	0	16.84	16.76	16.87	18	0
10	256QAM	25	12	16.82	16.84	16.82	18	0
10	256QAM	25	37	16.79	16.78	16.85	18	0
10	256QAM	50	0	16.82	16.75	16.81	18	0
Channel								
Frequency (MHz)								
5	QPSK	1	0	16.84	16.75	16.75	18	0
5	QPSK	1	12	16.82	16.86	16.82	18	0
5	QPSK	1	24	17.13	16.82	16.82	18	0
5	QPSK	12	0	17.11	16.89	16.86	18	0
5	QPSK	12	7	16.88	16.97	16.89	18	0
5	QPSK	12	13	17.02	17.01	16.91	18	0
5	QPSK	25	0	16.96	16.86	16.89	18	0
5	16QAM	1	0	17.01	17.00	17.01	18	0
5	16QAM	1	12	17.10	17.08	17.05	18	0
5	16QAM	1	24	17.15	17.15	17.13	18	0
5	16QAM	12	0	16.84	17.01	16.97	18	0
5	16QAM	12	7	17.06	16.98	17.00	18	0
5	16QAM	12	13	17.05	16.92	17.00	18	0
5	16QAM	25	0	17.00	16.88	16.90	18	0
5	16QAM	25	12	16.87	16.96	16.90	18	0
5	64QAM	1	0	16.91	16.90	16.90	18	0
5	64QAM	1	12	17.13	16.96	17.04	18	0
5	64QAM	1	24	17.10	16.87	16.93	18	0
5	64QAM	12	0	16.76	16.79	16.85	18	0
5	64QAM	12	7	16.82	16.85	16.88	18	0
5	64QAM	12	13	16.86	16.77	16.79	18	0
5	256QAM	1	0	16.86	16.75	16.83	18	0

### Band 41\_Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch / Freq	Turn-up Int (dBm)	MFR (dB)				
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.73	21.95	21.70	21.80	21.38	22.5	0
20	QPSK	1	49	21.74	21.81	21.72	21.65	21.29	22.5	0
20	QPSK	1	99	21.79	21.86	21.73	21.67	21.31	22.5	0
20	QPSK	59	0	21.73	21.96	21.77	21.74	21.39	22.5	0
20	QPSK	59	49	21.74	21.85	21.75	21.74	21.39	22.5	0
20	QPSK	59	99	21.71	21.82	21.65	21.73	21.37	22.5	0
20	QPSK	100	0	21.71	21.92	21.78	21.81	21.38	22.5	0
20	16QAM	1	0	21.85	21.93	21.76	21.75	21.35	22.5	0
20	16QAM	1	49	21.89	21.90	21.81	21.72	21.38	22.5	0
20	16QAM	1	99	21.88	21.88	21.82	21.83	21.29	22.5	0
20	16QAM	59	0	20.25	20.36	20.31	20.14	19.88	22.5	0
20	16QAM	59	49	20.31	20.37	20.27	20.14	19.85	22.5	0
20	16QAM	59	99	20.24	20.49	20.32	20.28	19.88	22.5	0
20	16QAM	100	0	20.24	20.41	20.29	20.15	19.75	22.5	0
20	64QAM	1	0	19.99	20.19	19.99	19.88	19.52	22.5	0
20	64QAM	1	49	20.23	20.25	20.00	19.87	19.52	22.5	0
20	64QAM	1	99	20.04	20.08	19.88	19.85	19.47	22.5	0
20	64QAM	59	0	19.73	19.89	19.75	19.60	19.25	22.5	0
20	64QAM	59	49	19.81	19.87	19.76	19.62	19.33	22.5	0
20	64QAM	59	99	19.85	19.87	19.87	19.85	19.31	22.5	0
20	64QAM	100	0	19.78	19.92	19.76	19.68	19.31	22.5	0
20	256QAM	1	0	17.80	17.89	17.84	17.72	17.65	19	3.5
20	256QAM	1	49	17.80	17.88	17.80	17.65	17.60	19	3.5
20	256QAM	1	99	17.84	17.82	17.80	17.65	17.60	19	3.5
20	256QAM	59	0	17.83	17.83	17.88	17.80	17.71	19	3.5
20	256QAM	59	49	17.86	17.75	17.83	17.63	17.68	19	3.5
20	256QAM	59	99	17.78	17.84					



Band 41_Ant 3												
Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up Int (ms)	MPR (dB)
Channel			39750	40185	40620	41055	41490					
Frequency (MHz)												
QPSK	1	0	19.83	19.79	20.01	19.93	19.99				20.2	0
QPSK	1	49	19.84	19.90	20.07	19.85	19.98					
QPSK	1	99	19.71	19.19	20.14	20.01	20.07					
QPSK	50	0	19.68	20.18	20.17	19.97	20.04					
QPSK	24	0	19.82	19.80	19.96	19.93	19.98				20.2	0
QPSK	50	50	19.82	19.80	19.96	19.93	19.98					
QPSK	100	0	19.86	20.02	20.00	19.91	20.01					
16QAM	1	0	19.68	19.81	19.88	19.91	20.02					
16QAM	1	49	19.82	19.83	19.80	19.97	20.00				20.2	0
16QAM	1	99	19.69	20.07	19.77	19.97	19.93					
16QAM	50	0	19.99	19.93	19.86	19.90	20.04					
16QAM	50	24	19.83	20.02	19.85	19.94	20.03				20.2	0
16QAM	50	50	19.83	20.02	19.85	19.94	20.03					
16QAM	100	0	19.80	19.94	19.92	19.95	19.97					
64QAM	1	0	19.89	19.85	19.82	19.70	19.86				20.2	0
64QAM	1	49	19.84	19.83	19.70	19.83	19.89					
64QAM	1	99	19.82	19.89	19.81	19.82	19.72					
64QAM	50	0	19.99	19.97	19.76	19.96	20.02				20.2	0
64QAM	50	24	19.82	19.82	19.86	19.85	20.02					
64QAM	50	50	19.84	19.99	19.95	19.89	19.84					
256QAM	100	0	19.82	19.80	19.87	19.80	20.02					
256QAM	1	0	19.78	19.83	19.89	19.77	19.89					
256QAM	1	49	19.88	19.83	19.89	19.89	19.84				20.2	0
256QAM	1	99	19.69	19.88	19.74	19.70	19.82					
256QAM	50	0	19.70	19.88	19.93	19.83	19.89					
256QAM	50	24	19.77	19.70	19.85	19.81	19.79					
256QAM	50	50	19.82	19.84	19.85	19.77	19.74				20.2	0
256QAM	100	0	19.87	19.89	19.85	19.83	19.77					
Channel			26015	25483	25911	26378	26845				Tune-up Int (ms)	MPR (dB)
Frequency (MHz)												
QPSK	1	0	19.89	19.71	19.89	19.85	19.80				20.0	0
QPSK	1	37	19.99	19.82	20.00	19.84	19.88					
QPSK	1	74	19.87	20.12	20.08	20.00	20.00					
QPSK	36	0	19.87	20.19	20.17	19.85	20.02					
QPSK	36	20	19.85	19.70	20.01	19.90	19.92				20.2	0
QPSK	36	39	19.82	19.74	19.91	19.89	19.85					
16QAM	1	0	19.82	19.80	19.70	19.81	19.89					
16QAM	1	49	19.81	19.76	19.88	19.83	19.96				20.2	0
16QAM	1	97	19.81	19.88	19.74	19.96	19.99					
16QAM	74	0	19.88	19.87	19.76	19.82	19.86					
16QAM	36	0	19.89	19.87	19.79	19.85	19.84					
16QAM	36	20	19.87	19.87	19.80	19.85	19.99					
16QAM	36	39	19.80	19.83	19.82	19.91	19.85				20.2	0
16QAM	75	0	19.84	19.87	19.81	19.83	19.88					
16QAM	75	0	19.84	19.84	19.80	19.82	19.87					
64QAM	1	37	19.83	19.81	19.87	19.83	19.82				20.2	0
64QAM	1	74	19.82	19.81	19.81	19.81	19.81					
64QAM	36	20	19.87	19.81	19.75	19.75	19.87					
64QAM	36	20	19.83	19.82	19.84	19.74	19.91				20.2	0
64QAM	36	39	19.80	19.87	19.85	19.84	19.84					
64QAM	75	0	19.80	19.72	19.80	19.80	19.95					
256QAM	1	0	19.87	19.82	19.84	19.76	19.92					
256QAM	1	37	19.84	19.81	19.85	19.80	19.84				20.2	0
256QAM	1	74	19.85	19.82	19.79	19.79	19.81					
256QAM	36	0	19.87	19.88	19.75	19.85	19.71					
256QAM	36	20	19.77	19.88	19.75	19.85	19.71				20.2	0
256QAM	36	39	19.89	19.84	19.80	19.71	19.89					
256QAM	75	0	19.87	19.88	19.85	19.70	19.87					
Channel			39750	40160	40620	41080	41540				Tune-up Int (ms)	MPR (dB)
Frequency (MHz)												
QPSK	1	0	19.89	20.04	20.00	19.87	19.89				20.0	0
QPSK	1	49	19.84	19.87	20.00	19.74	19.87					
QPSK	49	49	19.86	19.86	19.86	19.86	19.86					
QPSK	25	0	19.82	20.15	20.06	19.84	19.96					
QPSK	25	12	19.81	19.80	20.09	19.82	19.87				20.2	0
QPSK	25	24	19.81	19.70	19.87	19.80	19.82					
QPSK	50	0	19.84	20.01	20.08	19.88	20.01					
16QAM	1	0	19.81	19.81	19.81	19.81	20.06					
16QAM	1	25	19.90	19.87	19.79	19.95	19.98				20.2	0
16QAM	1	49	19.83	19.98	19.87	19.80	19.91					
16QAM	25	12	19.80	19.80	19.76	19.86	19.90					
16QAM	25	24	19.80	19.90	19.87	19.86	19.97				20.2	0
16QAM	50	0	19.85	19.89	19.82	19.82	19.88					
64QAM	1	0	19.89	19.45	19.81	19.85	19.80					
64QAM	1	24	19.83	19.85	19.87	19.82	19.82				20.2	0
64QAM	1	49	19.83	19.88	19.80	19.80	19.71					
64QAM	25	0	19.44	19.94	19.75	19.89	19.96					
64QAM	25	12	19.82	19.83	19.83	19.70	20.00				20.2	0
64QAM	25	24	19.88	19.85	19.92	19.80	19.90					
64QAM	50	0	19.82	19.79	19.88	19.86	19.89					
256QAM	1	0	19.72	19.82	19.82	19.88	19.88					
256QAM	1	25	19.83	19.81	19.80	19.88	19.88				20.2	0
256QAM	1	49	19.81	19.80	19.80	19.70	19.82					
256QAM	25	0	19.84	19.84	19.85	19.60	19.84					
256QAM	25	12	19.71	19.86	19.70	19.82	19.78				20.2	0
256QAM	25	24	19.84	19.84	19.88	19.70	19.84					
256QAM	50	0	19.49	19.89	19.80	19.77	19.73					
Channel			26895	25483	25911	26400	26877				Tune-up Int (ms)	MPR (dB)
Frequency (MHz)												
QPSK	1	0	19.82	19.76	19.88	19.87	19.89				20.0	0
QPSK	1	12	19.83	19.86	19.88	19.74	19.80					
QPSK	1	24	19.84	20.14	20.04	20.00	20.05					
QPSK	12	0	19.82	20.11	20.06	19.85	20.03					
QPSK	12	7	19.87	19.79	20.00	19.82	19.92				20.2	0
QPSK	12	13	19.81	19.72	19.86	19.80	19.88					
QPSK	25	0	19.86	19.84	19.87	19.86	19.86					
QPSK	25	0	19.85	19.77	19.79	19.88	20.05					
16QAM	1	12	19.48	19.91	19.78	19.91	19.93				20.2	0
16QAM	1	24	19.81	20.00	19.86	19.84	19.91					
16QAM	12	0	19.81	19.86	19.76	19.81	20.02					
16QAM	12	7	19.83	19.83	19.83	19.87	19.87					
16QAM	12	13	19.82	19.82	19.83	19.81	19.88				20.2	0
16QAM	25	0	19.87	19.88	19.80	19.84	19.84					
64QAM	1	0	19.88	19.44	19.81	19.85	19.87					
64QAM	1	12	19.85	19.87	19.80	19.81	19.85				20.2	0
64QAM	1	24	19.86	19.82	19.85	19.86	19.					



**Full Power level/Default Power level for 5G NR  
For DFT-15**

n5_Ant 0 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch./Freq. 167300	Middle Ch./Freq. 167300	High Ch./Freq. 167300			
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	25.23	25.26	25.24	25.7	0.0	
20	PI2 BPSK	1	53	25.22	25.25	25.23	25.7	0.0	
20	PI2 BPSK	1	104	25.17	25.17	25.12	25.7	0.0	
20	PI2 BPSK	50	0	24.45	24.47	24.48	25.2	0.5	
20	PI2 BPSK	50	28	24.59	25.08	25.03	25.7	0.0	
20	PI2 BPSK	50	56	24.43	24.51	24.36	25.2	0.5	
20	PI2 BPSK	100	0	24.42	24.57	24.45	25.2	0.5	
20	QPSK	1	1	25.03	25.08	25.00	25.7	0.0	
20	QPSK	1	53	24.93	25.03	24.92	25.7	0.0	
20	QPSK	1	104	24.88	25.01	24.90	24.7	1.0	
20	QPSK	50	0	23.98	24.06	24.01	24.7	1.0	
20	QPSK	50	28	24.94	25.08	24.99	25.7	0.0	
20	QPSK	50	56	23.89	24.04	23.95	24.7	1.0	
20	QPSK	100	0	24.02	24.07	23.92	24.7	1.0	
20	16QAM	1	1	23.81	23.97	23.86	24.7	1.0	
20	16QAM	1	1	22.43	22.58	22.39	23.2	2.5	
20	256QAM	1	1	20.93	21.03	20.92	21.2	4.5	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	16590	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	16530	167300	169300	Tune-up limit (dBm)	MPR (dB)	

n5_Ant 1 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch./Freq. 167300	Middle Ch./Freq. 167300	High Ch./Freq. 167300			
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.95	25.01	24.97	25.7	0.0	
20	PI2 BPSK	1	53	24.94	24.98	24.96	25.7	0.0	
20	PI2 BPSK	1	104	24.94	24.74	24.76	25.2	0.5	
20	PI2 BPSK	50	0	24.73	24.79	24.73	25.2	0.5	
20	PI2 BPSK	50	28	24.79	24.90	24.89	25.7	0.0	
20	PI2 BPSK	50	56	24.58	24.72	24.66	25.2	0.5	
20	PI2 BPSK	100	0	24.70	24.74	24.73	25.2	0.5	
20	QPSK	1	1	24.81	24.87	24.80	25.7	0.0	
20	QPSK	1	53	24.73	24.81	24.69	25.7	0.0	
20	QPSK	1	104	24.58	24.66	24.61	24.7	1.0	
20	QPSK	50	0	23.57	23.70	23.56	24.7	1.0	
20	QPSK	50	28	24.70	24.77	24.65	25.7	0.0	
20	QPSK	50	56	23.47	23.59	23.50	24.7	1.0	
20	QPSK	100	0	23.60	23.67	23.57	24.7	1.0	
20	16QAM	1	1	23.54	23.67	23.53	24.7	1.0	
20	16QAM	1	1	22.19	22.28	22.23	23.2	2.5	
20	256QAM	1	1	20.69	20.76	20.69	21.2	4.5	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	166800	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	16590	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	16530	167300	169300	Tune-up limit (dBm)	MPR (dB)	

n7_Ant 0 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)	
				Low Ch./Freq. 507000	Middle Ch./Freq. 507000	High Ch./Freq. 507000			
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	22.38	22.41	22.36	24.0	0.0	
50	PI2 BPSK	1	135	22.28	22.28	22.21	24.0	0.0	
50	PI2 BPSK	1	268	22.35	22.24	22.31	24.0	0.0	
50	PI2 BPSK	135	0	21.78	21.83	21.67	23.5	0.5	
50	PI2 BPSK	135	68	22.30	22.38	22.21	24.0	0.0	
50	PI2 BPSK	135	135	21.44	21.53	21.42	23.5	0.5	
50	PI2 BPSK	270	0	21.74	21.75	21.65	23.5	0.5	
50	QPSK	1	1	22.37	22.40	22.35	24.0	0.0	
50	QPSK	1	135	22.28	22.34	22.23	24.0	0.0	
50	QPSK	1	268	22.04	22.11	21.95	23.0	1.0	
50	QPSK	135	0	21.06	21.21	21.15	23.0	1.0	
50	QPSK	135	68	22.13	22.21	22.12	24.0	0.0	
50	QPSK	135	135	20.83	20.93	20.79	23.0	1.0	
50	QPSK	270	0	21.02	21.13	21.06	23.0	1.0	
50	16QAM	1	1	21.21	21.26	21.15	23.0	1.0	
50	16QAM	1	1	19.68	19.78	19.71	21.5	2.5	
50	256QAM	1	1	18.60	18.69	18.56	19.5	4.5	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	50200	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	50250	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	50200	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	50100	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	50000	507000	514000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	50000	507000	515000	Tune-up limit (dBm)	MPR (dB)	



n7_Ant 2 Default										
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)										
50	PI2 BPSK	1	1	24.48	24.59	24.66	25.0	0.0		
50	PI2 BPSK	1	135	24.22	24.28	24.14	25.0	0.0		
50	PI2 BPSK	1	268	24.34	24.28	24.55	25.0	0.0		
50	PI2 BPSK	135	0	23.82	23.89	23.80	24.5	0.5		
50	PI2 BPSK	135	68	24.26	24.33	24.29	25.0	0.0		
50	PI2 BPSK	135	135	23.82	23.85	23.78	24.5	0.5		
50	PI2 BPSK	270	0	23.86	23.90	23.82	24.5	0.5		
50	QPSK	1	1	24.34	24.43	24.34	25.0	0.0		
50	QPSK	1	135	23.94	24.10	23.97	25.0	0.0		
50	QPSK	1	268	24.15	24.27	24.21	25.0	0.0		
50	QPSK	135	0	23.73	23.83	23.89	24.0	1.0		
50	QPSK	135	68	24.19	24.24	24.17	25.0	0.0		
50	QPSK	135	135	23.54	23.68	23.56	24.0	1.0		
50	QPSK	270	0	23.67	23.75	23.68	24.0	1.0		
50	16QAM	1	1	23.51	23.62	23.50	24.0	1.0		
50	16QAM	1	1	21.32	21.35	21.30	22.5	2.5		
50	256QAM	1	1	20.34	20.47	20.39	20.5	4.5		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	24.06	24.39	24.24	25.0	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	24.32	24.27	24.32	25.0	0.0		
Channel										
Frequency (MHz)										
25	PI2 BPSK	1	1	23.54	23.41	23.24	23.0	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	24.09	24.19	24.07	25.0	0.0		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	24.08	24.12	24.13	25.0	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	24.07	24.14	24.11	25.0	0.0		
Channel										
Frequency (MHz)										
5	PI2 BPSK	1	1	24.09	24.12	24.12	25.0	0.0		

n7_Ant 3 Default										
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)										
50	PI2 BPSK	1	1	24.32	24.52	24.19	25.7	0.0		
50	PI2 BPSK	1	135	24.18	24.24	24.02	25.7	0.0		
50	PI2 BPSK	1	268	24.28	24.42	24.18	25.7	0.0		
50	PI2 BPSK	135	0	23.83	23.96	23.86	25.2	0.5		
50	PI2 BPSK	135	68	24.22	24.31	24.26	25.7	0.0		
50	PI2 BPSK	135	135	23.93	24.04	23.84	25.2	0.5		
50	PI2 BPSK	270	0	23.75	23.85	23.75	25.2	0.5		
50	QPSK	1	1	24.24	24.39	24.33	25.7	0.0		
50	QPSK	1	135	24.00	24.16	24.09	25.7	0.0		
50	QPSK	1	268	24.47	24.51	24.36	25.7	0.0		
50	QPSK	135	0	23.16	23.28	23.13	24.7	1.0		
50	QPSK	135	68	24.17	24.29	24.24	25.7	0.0		
50	QPSK	135	135	23.16	23.28	23.20	24.7	1.0		
50	QPSK	270	0	23.05	23.20	23.05	24.7	1.0		
50	16QAM	1	1	22.83	22.89	22.79	24.7	1.0		
50	16QAM	1	1	21.42	21.47	21.38	23.2	2.5		
50	256QAM	1	1	20.24	20.38	20.32	21.2	4.5		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	24.38	24.45	24.32	25.7	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	24.25	24.27	24.35	25.7	0.0		
Channel										
Frequency (MHz)										
25	PI2 BPSK	1	1	23.44	23.30	23.44	23.7	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	24.30	24.29	24.31	25.7	0.0		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	24.34	24.22	24.29	25.7	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	24.40	24.18	24.34	25.7	0.0		
Channel										
Frequency (MHz)										
5	PI2 BPSK	1	1	24.30	24.13	24.32	25.7	0.0		

n7_Ant 5 Default										
YYYY	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)										
50	PI2 BPSK	1	1	23.01	23.05	23.03	24.5	0.0		
50	PI2 BPSK	1	135	22.85	22.86	23.02	24.5	0.0		
50	PI2 BPSK	1	268	22.92	23.01	22.86	24.5	0.0		
50	PI2 BPSK	135	0	22.80	22.71	22.57	24.0	0.5		
50	PI2 BPSK	135	68	22.78	22.81	22.79	24.5	0.0		
50	PI2 BPSK	135	135	22.66	22.71	22.56	24.0	0.5		
50	PI2 BPSK	270	0	22.12	22.23	22.13	24.0	0.5		
50	QPSK	1	1	22.79	22.95	22.90	24.5	0.0		
50	QPSK	1	135	22.82	22.76	22.69	24.5	0.0		
50	QPSK	1	268	22.85	23.00	23.00	24.5	0.0		
50	QPSK	135	0	21.85	21.77	21.83	23.5	1.0		
50	QPSK	135	68	22.82	22.85	22.81	24.5	0.0		
50	QPSK	135	135	21.79	21.86	21.71	23.5	1.0		
50	QPSK	270	0	21.77	21.87	21.82	23.5	1.0		
50	16QAM	1	1	21.39	21.51	21.37	23.5	1.0		
50	16QAM	1	1	20.02	20.11	19.97	22.0	2.5		
50	256QAM	1	1	18.93	19.07	18.98	20.0	4.5		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	22.92	23.00	22.92	24.5	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	22.87	22.87	22.84	24.5	0.0		
Channel										
Frequency (MHz)										
25	PI2 BPSK	1	1	22.24	22.28	22.32	24.5	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	22.12	22.14	22.13	24.5	0.0		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	22.90	22.88	22.92	24.5	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	22.94	22.88	22.84	24.5	0.0		
Channel										
Frequency (MHz)										
5	PI2 BPSK	1	1	22.85	22.84	22.91	24.5	0.0		



For DFT-30

n38_Ant 0 Default									
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)									
40	PI2 BPSK	1	1	22.83	22.89	22.80			
40	PI2 BPSK	1	53	22.73	22.68	22.56	24.0	0.0	
40	PI2 BPSK	1	104	22.47	22.34	22.23			
40	PI2 BPSK	50	0	21.87	22.02	21.92	23.5	0.5	
40	PI2 BPSK	50	28	22.36	22.75	22.34	24.0	0.0	
40	PI2 BPSK	50	56	22.01	22.15	22.09			
40	PI2 BPSK	100	0	22.35	22.25	22.12	23.5	0.5	
40	QPSK	1	1	22.69	22.74	22.69			
40	QPSK	1	53	22.37	22.56	22.35	24.0	0.0	
40	QPSK	1	104	22.24	22.59	22.26			
40	QPSK	50	0	22.38	22.65	22.39			
40	QPSK	50	28	22.31	22.53	22.29	24.0	0.0	
40	QPSK	50	56	22.17	22.01	22.11			
40	QPSK	100	0	21.52	21.55	21.53	23.0	1.0	
40	16QAM	1	1	21.24	21.54	21.16	23.0	1.0	
40	64QAM	1	1	20.05	20.12	20.05	21.5	2.5	
40	256QAM	1	1	18.41	18.48	18.43	19.3	4.5	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	22.53	22.69	22.56	24.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	21.80	21.91	21.76	24.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.55	22.74	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.50	22.61	22.50	24.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.61	22.65	22.61	24.0	0.0	

n38_Ant 2 Default									
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)									
40	PI2 BPSK	1	1	24.94	24.98	24.98			
40	PI2 BPSK	1	53	24.82	24.83	24.74	25.5	0.0	
40	PI2 BPSK	1	104	24.36	24.50	24.82			
40	PI2 BPSK	50	0	24.07	24.22	24.12	25.0	0.5	
40	PI2 BPSK	50	28	24.54	24.68	24.55	25.5	0.0	
40	PI2 BPSK	50	56	24.36	24.07	23.93			
40	PI2 BPSK	100	0	24.04	24.16	24.08	25.0	0.5	
40	QPSK	1	1	24.89	24.97	24.91			
40	QPSK	1	53	24.69	24.75	24.67	25.5	0.0	
40	QPSK	1	104	24.55	24.77	24.81			
40	QPSK	50	0	24.37	24.51	24.41			
40	QPSK	50	28	24.36	24.48	24.39	25.5	0.0	
40	QPSK	50	56	24.33	24.38	24.24			
40	QPSK	100	0	23.87	23.84	23.73	24.5	1.0	
40	16QAM	1	1	23.57	23.63	23.49	24.5	1.0	
40	64QAM	1	1	22.03	22.12	21.98	23.0	2.5	
40	256QAM	1	1	20.67	20.82	20.72	21.0	4.5	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.71	24.82	24.70	25.5	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	24.01	24.16	24.08	25.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.72	24.86	24.72	25.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.71	24.79	24.75	25.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.74	24.73	24.68	25.5	0.0	

n38_Ant 3 Default									
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)									
40	PI2 BPSK	1	1	24.84	25.20	24.86			
40	PI2 BPSK	1	53	24.82	25.00	24.82	25.7	0.0	
40	PI2 BPSK	1	104	24.61	25.19	24.73			
40	PI2 BPSK	50	0	24.38	24.56	24.33	25.2	0.5	
40	PI2 BPSK	50	28	24.69	24.88	24.65	25.7	0.0	
40	PI2 BPSK	50	56	24.17	24.28	24.19			
40	PI2 BPSK	100	0	24.18	24.34	24.20	25.2	0.5	
40	QPSK	1	1	24.37	24.49	24.38			
40	QPSK	1	53	24.67	24.65	24.67	25.7	0.0	
40	QPSK	1	104	24.68	24.78	24.69			
40	QPSK	50	0	23.68	23.77	23.72			
40	QPSK	50	28	24.19	24.25	24.20	25.7	0.0	
40	QPSK	50	56	23.53	23.60	23.54			
40	QPSK	100	0	23.59	23.69	23.61	24.7	1.0	
40	16QAM	1	1	23.65	23.71	23.63	24.7	1.0	
40	64QAM	1	1	22.36	22.43	22.36	23.2	2.5	
40	256QAM	1	1	20.97	21.00	21.00	21.2	4.5	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.38	24.54	24.43	25.7	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	23.77	23.83	23.75	25.7	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.42	24.64	24.39	25.7	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.43	24.65	24.45	25.7	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.47	24.66	24.49	25.7	0.0	



n38_Ant 5 Default									
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)									
40	PI2 BPSK	1	1	23.18	23.56	23.21	25.0	0.0	
40	PI2 BPSK	1	33	23.06	23.46	23.11			
40	PI2 BPSK	1	104	23.17	23.44	23.04			
40	PI2 BPSK	50	0	22.84	23.00	22.91	24.5	0.5	
40	PI2 BPSK	50	28	23.32	23.42	23.38	25.0	0.0	
40	PI2 BPSK	50	56	22.80	22.90	22.84	24.5	0.5	
40	PI2 BPSK	100	0	22.84	22.92	22.85	25.0	0.0	
40	QPSK	1	1	23.21	23.33	23.17			
40	QPSK	1	33	22.82	23.21	22.67			
40	QPSK	1	104	22.53	23.23	22.60	25.0	0.0	
40	QPSK	50	0	22.69	23.22	22.77			
40	QPSK	50	28	22.64	23.20	22.71			
40	QPSK	50	56	22.63	23.21	22.61	24.0	1.0	
40	QPSK	100	0	22.69	22.70	22.68	24.0	1.0	
40	16QAM	1	1	22.91	22.98	22.87			
40	64QAM	1	1	20.28	20.22	20.25			
40	256QAM	1	1	18.84	18.96	18.81	20.3	4.5	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	23.07	23.46	23.07	25.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	23.06	23.40	23.08	25.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.99	23.51	23.11	25.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.90	23.45	23.11	25.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	23.04	23.43	23.07	25.0	0.0	

n41_Ant 0 Default									
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	23.45	23.57	23.46	24.5	0.0	
100	PI2 BPSK	1	137	23.38	23.42	23.40			
100	PI2 BPSK	1	211	23.31	23.35	23.32			
100	PI2 BPSK	135	0	22.87	23.04	22.84	24.0	0.5	
100	PI2 BPSK	135	69	23.41	23.48	23.42	24.5	0.0	
100	PI2 BPSK	135	138	22.40	22.54	22.48	24.0	0.5	
100	PI2 BPSK	270	0	22.68	22.74	22.69	24.5	0.0	
100	QPSK	1	1	23.25	23.35	23.25			
100	QPSK	1	137	23.28	23.32	23.31			
100	QPSK	1	211	23.01	23.05	23.03	24.5	0.0	
100	QPSK	135	0	23.00	23.03	23.01			
100	QPSK	135	69	23.21	23.32	23.24			
100	QPSK	135	138	23.15	23.25	23.21	24.5	1.0	
100	QPSK	270	0	22.69	22.78	22.71	23.5	1.0	
100	16QAM	1	1	22.03	22.17	22.10	23.5	1.0	
100	64QAM	1	1	20.57	20.85	20.56	22.0	2.5	
100	256QAM	1	1	19.20	19.20	19.21	20.3	4.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	23.24	23.37	23.25	24.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	23.29	23.33	23.24	24.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	23.29	23.15	23.28	24.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	23.22	23.34	23.31	24.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	23.21	23.29	23.27	24.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	23.23	23.23	23.24	24.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	23.32	23.23	23.24	24.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	23.23	23.41	23.25	24.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	23.26	23.39	23.30	24.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	23.09	23.15	23.06	24.5	0.0	

n41_Ant 2 Default									
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	24.96	25.10	25.01	25.5	0.0	
100	PI2 BPSK	1	137	24.83	25.02	24.99			
100	PI2 BPSK	1	211	24.85	24.95	24.83			
100	PI2 BPSK	135	0	24.67	24.85	24.65	25.0	0.5	
100	PI2 BPSK	135	69	24.71	24.87	24.75	25.5	0.0	
100	PI2 BPSK	135	138	24.45	24.41	24.21	25.0	0.5	
100	PI2 BPSK	270	0	24.62	24.71	24.61	25.5	0.0	
100	QPSK	1	1	24.94	25.01	24.88			
100	QPSK	1	137	24.48	24.63	24.58			
100	QPSK	1	211	24.61	24.71	24.59	25.5	0.0	
100	QPSK	135	0	24.07	24.23	24.16			
100	QPSK	135	69	24.56	24.66	24.54			
100	QPSK	135	138	24.05	24.03	24.05	24.5	1.0	
100	QPSK	270	0	24.63	24.10	23.67	24.5	1.0	
100	16QAM	1	1	24.21	24.35	24.19	24.5	1.0	
100	64QAM	1	1	22.75	22.82	22.77	23.0	2.5	
100	256QAM	1	1	21.14	21.20	21.21	21.0	4.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	24.96	25.05	24.87	25.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	24.99	24.95	24.97	25.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	24.96	24.87	25.02	25.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	25.00	25.08	24.99	25.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	24.92	25.01	24.94	25.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.92	24.91	24.58	25.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.99	24.81	25.00	25.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.90	24.46	24.28	25.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.31	24.45	24.25	25.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.27	24.36	24.29	25.5	0.0	



### n41\_Ant 3 Default

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	24.71	25.58	24.65	25.7	0.0
100	PI2 BPSK	1	137	24.65	25.31	24.63		
100	PI2 BPSK	1	211	24.62	25.39	24.52		
100	PI2 BPSK	135	0	24.67	24.73	24.57	25.2	0.5
100	PI2 BPSK	135	69	24.69	24.75	24.62	25.7	0.0
100	PI2 BPSK	135	138	24.97	24.72	24.60	25.2	0.5
100	PI2 BPSK	270	0	24.71	24.82	24.72	25.7	0.0
100	QPSK	1	1	24.94	25.08	25.02	25.7	0.0
100	QPSK	1	137	25.43	25.57	25.44		
100	QPSK	1	211	24.80	24.78	24.68		
100	QPSK	135	0	25.22	25.29	25.18	25.7	0.0
100	QPSK	135	69	25.23	25.32	25.22	25.7	0.0
100	QPSK	135	138	25.01	25.11	24.97	25.7	1.0
100	QPSK	270	0	25.38	25.44	25.29	24.7	1.0
100	16QAM	1	1	24.12	24.17	24.12	24.7	1.0
100	64QAM	1	1	22.83	22.88	22.42	23.2	2.5
100	256QAM	1	1	21.06	21.17	21.01	21.2	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.42	25.53	25.41	25.7	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.42	25.24	25.39	25.7	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	24.50	24.52	24.51	25.7	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.52	24.54	24.53	25.7	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.69	24.85	24.73	25.7	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.62	24.76	24.74	25.7	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.72	24.89	24.80	25.7	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.80	24.68	24.77	25.7	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	24.80	24.64	24.71	25.7	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	24.79	24.53	24.71	25.7	0.0

### n41\_Ant 5 Default

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	24.18	24.54	24.24	25.5	0.0
100	PI2 BPSK	1	137	23.74	24.50	23.58		
100	PI2 BPSK	1	211	23.87	24.28	23.23		
100	PI2 BPSK	135	0	23.85	24.01	23.88	25.0	0.5
100	PI2 BPSK	135	69	24.37	24.43	24.38	25.5	0.0
100	PI2 BPSK	135	138	23.92	23.98	23.82	25.0	0.5
100	PI2 BPSK	270	0	23.77	23.83	23.73	25.7	0.0
100	QPSK	1	1	23.86	24.05	23.80	25.5	0.0
100	QPSK	1	137	23.78	24.06	23.82		
100	QPSK	1	211	23.63	24.08	23.63		
100	QPSK	135	0	24.20	24.28	24.15	25.7	0.0
100	QPSK	135	69	24.33	24.40	24.28	25.5	0.0
100	QPSK	135	138	23.94	24.02	23.87	24.5	1.0
100	QPSK	270	0	23.17	23.23	23.10	24.5	1.0
100	16QAM	1	1	23.56	23.71	23.56	24.5	1.0
100	64QAM	1	1	21.87	21.75	21.59	23.0	2.5
100	256QAM	1	1	20.28	20.32	20.18	21.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.21	24.27	24.11	25.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.19	24.18	24.12	25.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	24.17	24.15	24.22	25.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.20	24.34	24.13	25.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.15	24.31	24.19	25.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.11	24.21	24.13	25.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.13	24.16	24.22	25.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.03	24.02	24.01	25.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	24.03	24.09	24.02	25.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	24.01	24.12	24.06	25.5	0.0

### Par27Q n77\_Ant 4 Default

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	25.26	25.26	25.26	25.7	0.0
100	PI2 BPSK	1	137	24.57	25.21	25.21		
100	PI2 BPSK	1	211	25.24	25.24	25.24		
100	PI2 BPSK	135	0	24.60	25.20	25.20	25.2	0.5
100	PI2 BPSK	135	69	24.61	25.21	25.21	25.7	0.0
100	PI2 BPSK	135	138	24.57	25.20	25.20	25.2	0.5
100	PI2 BPSK	270	0	24.64	25.20	25.20	25.7	0.0
100	QPSK	1	1	24.75	25.20	25.20	25.7	0.0
100	QPSK	1	137	24.86	25.13	25.13		
100	QPSK	1	211	25.13	25.13	25.13		
100	QPSK	135	0	25.05	25.15	25.15	25.7	0.0
100	QPSK	135	69	25.01	25.15	25.15	25.7	0.0
100	QPSK	135	138	25.03	25.15	25.15	24.7	1.0
100	QPSK	270	0	24.11	25.15	25.15	24.7	1.0
100	16QAM	1	1	24.07	25.15	25.15	24.7	1.0
100	64QAM	1	1	22.86	25.15	25.15	23.2	2.5
100	256QAM	1	1	21.23	25.15	25.15	21.2	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.16	25.13	25.21	25.7	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.03	25.08	25.05	25.7	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	25.00	25.04	25.05	25.7	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.02	25.03	25.13	25.7	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.10	25.08	25.06	25.7	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.02	25.03	25.03	25.7	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.00	25.02	25.00	25.7	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	25.10	24.97	25.08	25.7	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.01	25.02	25.16	25.7	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	25.11	25.02	25.14	25.7	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	25.10	25.07	25.13	25.7	0.0



**Par270 n77\_Ant 4 Default**

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	25.19	25.28	25.27	25.7	0.0
100	PI2 BPSK	1	137	24.98	25.13	25.05		
100	PI2 BPSK	1	211	25.18	25.27	25.28		
100	PI2 BPSK	135	0	24.50	24.61	24.53	25.2	0.5
100	PI2 BPSK	135	69	24.89	25.10	25.10	25.7	0.0
100	PI2 BPSK	135	138	24.46	24.76	24.74	25.2	0.5
100	PI2 BPSK	210	0	24.54	24.71	24.69	25.7	0.0
100	QPSK	1	1	25.12	25.23	25.12	25.7	0.0
100	QPSK	1	137	24.98	25.06	24.99		
100	QPSK	1	211	25.06	25.25	25.14		
100	QPSK	135	0	25.03	25.10	24.94	25.7	0.0
100	QPSK	135	69	24.50	25.06	24.98	25.7	0.0
100	QPSK	135	138	24.98	25.05	24.94	25.7	1.0
100	QPSK	210	0	23.52	24.08	23.51	24.7	1.0
100	16QAM	1	1	24.04	24.15	24.08	24.7	1.0
100	64QAM	1	1	22.44	22.55	22.42	23.2	2.5
100	256QAM	1	1	21.90	21.96	21.90	21.2	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.16	25.11	25.20	25.7	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.11	25.15	25.18	25.7	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	25.21	25.07	25.17	25.7	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.10	25.12	25.21	25.7	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.13	25.07	25.04	25.7	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.20	25.10	25.10	25.7	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.19	25.10	25.05	25.7	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	25.11	25.05	25.05	25.7	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.18	25.15	25.17	25.7	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	25.15	25.07	25.08	25.7	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	25.19	25.07	25.21	25.7	0.0

**Par270 n77\_Ant 6 Default**

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	22.98	22.98	22.98	24.5	0.0
100	PI2 BPSK	1	137	22.62	22.62	22.62		
100	PI2 BPSK	1	211	22.98	22.98	22.98		
100	PI2 BPSK	135	0	22.28	22.28	22.28	24.0	0.5
100	PI2 BPSK	135	69	22.71	22.71	22.71	24.5	0.0
100	PI2 BPSK	135	138	22.28	22.28	22.28	24.0	0.5
100	PI2 BPSK	210	0	22.28	22.28	22.28	24.0	0.5
100	QPSK	1	1	22.80	22.80	22.80	24.5	0.0
100	QPSK	1	137	22.61	22.61	22.61		
100	QPSK	1	211	22.80	22.80	22.80		
100	QPSK	135	0	22.78	22.78	22.78	24.5	0.0
100	QPSK	135	69	22.62	22.62	22.62	24.5	0.0
100	QPSK	135	138	22.78	22.78	22.78	24.5	1.0
100	QPSK	210	0	21.75	21.75	21.75	23.5	1.0
100	16QAM	1	1	21.89	21.89	21.89	23.5	1.0
100	64QAM	1	1	20.22	20.22	20.22	22.0	2.5
100	256QAM	1	1	19.78	19.78	19.78	20.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	22.83	22.82	22.78	24.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.89	22.75	22.70	24.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	22.70	22.77	22.66	24.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.72	22.72	22.64	24.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	22.88	22.72	22.65	24.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.66	22.72	22.67	24.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.70	22.72	22.63	24.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	22.76	22.67	22.67	24.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.68	22.74	22.72	24.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	22.72	22.76	22.68	24.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	22.73	22.71	22.65	24.5	0.0

**Par270 n77\_Ant 6 Default**

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	22.69	23.05	23.03	24.5	0.0
100	PI2 BPSK	1	137	22.49	22.84	22.83		
100	PI2 BPSK	1	211	22.67	23.03	23.02		
100	PI2 BPSK	135	0	22.05	22.32	22.38	24.0	0.5
100	PI2 BPSK	135	69	22.43	22.79	22.76	24.5	0.0
100	PI2 BPSK	135	138	22.15	22.42	22.29	24.0	0.5
100	PI2 BPSK	210	0	22.15	22.42	22.44	24.0	0.5
100	QPSK	1	1	22.99	22.87	22.88	24.5	0.0
100	QPSK	1	137	22.44	22.73	22.70		
100	QPSK	1	211	22.67	22.86	23.00		
100	QPSK	135	0	22.60	22.86	22.87	24.5	0.0
100	QPSK	135	69	22.45	22.76	22.83	24.5	0.0
100	QPSK	135	138	22.51	22.60	22.67	24.5	1.0
100	QPSK	210	0	21.53	21.53	21.50	23.5	1.0
100	16QAM	1	1	21.38	21.63	21.64	23.0	1.0
100	64QAM	1	1	19.80	20.09	20.07	22.0	2.5
100	256QAM	1	1	18.44	18.78	18.82	20.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	22.67	22.80	22.84	24.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.85	22.79	22.82	24.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	22.54	22.62	22.87	24.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.61	22.73	22.80	24.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	22.87	22.74	22.83	24.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.63	22.77	22.84	24.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.62	22.70	22.80	24.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	22.59	22.80	22.78	24.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.56	22.78	22.80	24.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	22.53	22.77	22.88	24.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	22.55	22.76	22.84	24.5	0.0



### Par27Q n77\_Ant 7 Default

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	21.20				
100	PI2 BPSK	1	137	21.04			22.5	0.0
100	PI2 BPSK	1	211	21.27				
100	PI2 BPSK	135	0	20.74			22.0	0.5
100	PI2 BPSK	135	69	21.12			22.5	0.0
100	PI2 BPSK	135	138	20.95			22.0	0.5
100	PI2 BPSK	270	0	20.72				
100	QPSK	1	1	21.24				
100	QPSK	1	137	21.08			22.5	0.0
100	QPSK	1	211	21.31				
100	QPSK	135	0	21.20				
100	QPSK	135	69	21.15			22.5	0.0
100	QPSK	135	138	21.17				
100	QPSK	270	0	20.23			21.5	1.0
100	16QAM	1	1	20.06			21.5	1.0
100	64QAM	1	1	18.63			20.0	2.5
100	256QAM	1	1	17.21			18.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	21.20	21.18	21.21	22.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	21.15	21.11	21.09	22.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	21.05	21.02	21.16	22.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	21.05	21.13	21.12	22.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	21.09	21.02	21.06	22.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	21.15	21.06	21.09	22.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	21.13	21.12	21.09	22.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	21.04	21.02	21.10	22.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	21.09	21.04	21.10	22.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	21.12	21.06	21.12	22.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	21.10	21.11	21.05	22.5	0.0

### Par27Q n77\_Ant 7 Default

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	21.08	21.10	20.99		
100	PI2 BPSK	1	137	20.85	20.85	20.74	22.5	0.0
100	PI2 BPSK	1	211	21.07	21.08	20.98		
100	PI2 BPSK	135	0	20.57	20.46	20.37	22.0	0.5
100	PI2 BPSK	135	69	20.34	20.39	20.50	22.5	0.0
100	PI2 BPSK	135	138	20.57	20.44	20.25	22.0	0.5
100	PI2 BPSK	270	0	20.59	20.59	20.33		
100	QPSK	1	1	20.97	21.02	20.94		
100	QPSK	1	137	20.73	20.85	20.80	22.5	0.0
100	QPSK	1	211	20.92	20.95	20.82		
100	QPSK	135	0	20.88	20.91	20.76		
100	QPSK	135	69	20.78	20.89	20.73	22.5	0.0
100	QPSK	135	138	20.80	20.88	20.78		
100	QPSK	270	0	19.86	19.97	19.82	21.5	1.0
100	16QAM	1	1	19.73	19.88	19.75	21.5	1.0
100	64QAM	1	1	18.16	18.32	18.25	20.0	2.5
100	256QAM	1	1	16.90	16.98	16.79	18.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	20.96	21.03	20.88	22.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	20.90	20.95	20.86	22.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	20.92	20.96	20.84	22.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	20.94	20.97	20.89	22.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	20.91	20.97	20.85	22.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	20.89	21.02	20.87	22.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	20.99	21.02	20.83	22.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	20.98	20.97	20.86	22.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	20.93	21.01	20.79	22.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	20.96	20.96	20.89	22.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	20.92	20.98	20.86	22.5	0.0

### Par27Q n77\_Ant 8 Default

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	24.63				
100	PI2 BPSK	1	137	24.48			25.7	0.0
100	PI2 BPSK	1	211	24.62				
100	PI2 BPSK	135	0	24.17			25.2	0.5
100	PI2 BPSK	135	69	24.54			25.7	0.0
100	PI2 BPSK	135	138	24.16			25.2	0.5
100	PI2 BPSK	270	0	24.15				
100	QPSK	1	1	24.78				
100	QPSK	1	137	24.56			25.7	0.0
100	QPSK	1	211	24.71				
100	QPSK	135	0	24.65				
100	QPSK	135	69	24.48			25.7	0.0
100	QPSK	135	138	24.62				
100	QPSK	270	0	23.61			24.7	1.0
100	16QAM	1	1	23.53			24.7	1.0
100	64QAM	1	1	22.09			23.2	2.5
100	256QAM	1	1	20.68			21.2	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.68	24.62	24.69	25.7	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.62	24.46	24.53	25.7	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	24.56	24.49	24.64	25.7	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.54	24.57	24.50	25.7	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.61	24.51	24.53	25.7	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.54	24.51	24.61	25.7	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.57	24.47	24.60	25.7	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	24.59	24.51	24.54	25.7	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.56	24.50	24.58	25.7	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	24.53	24.54	24.57	25.7	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	24.53	24.55	24.58	25.7	0.0



### Par270 n77\_Ant 8 Default

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	24.65	24.70	24.78		
100	PI2 BPSK	1	137	23.36	24.39	24.33	25.7	0.0
100	PI2 BPSK	1	211	24.62	24.70	24.78		
100	PI2 BPSK	135	0	24.02	24.02	24.00	25.2	0.5
100	PI2 BPSK	135	69	24.42	24.49	24.48	25.7	0.0
100	PI2 BPSK	135	138	24.06	24.01	24.07	25.2	0.5
100	PI2 BPSK	270	0	24.07	24.10	24.08		
100	QPSK	1	1	24.40	24.52	24.39		
100	QPSK	1	137	24.25	24.35	24.25	25.7	0.0
100	QPSK	1	211	24.50	24.55	24.48		
100	QPSK	135	0	24.39	24.47	24.34		
100	QPSK	135	69	24.20	24.35	24.28	25.7	0.0
100	QPSK	135	138	24.39	24.46	24.37		
100	QPSK	270	0	23.30	23.44	23.39	24.7	1.0
100	16QAM	1	1	23.23	23.32	23.19	24.7	1.0
100	64QAM	1	1	21.68	21.83	21.67	23.2	2.5
100	256QAM	1	1	20.47	20.56	20.46	21.2	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.39	24.48	24.53	25.7	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.39	24.52	24.44	25.7	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	24.43	24.46	24.43	25.7	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.45	24.49	24.42	25.7	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.41	24.52	24.44	25.7	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.41	24.51	24.43	25.7	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.44	24.45	24.40	25.7	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	24.43	24.44	24.49	25.7	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.39	24.44	24.51	25.7	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	24.45	24.52	24.46	25.7	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	24.49	24.50	24.44	25.7	0.0

### Part27Q n78\_Ant 4 Default

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	26.32				
100	PI2 BPSK	1	137	26.03			27.0	0.0
100	PI2 BPSK	1	211	26.28				
100	PI2 BPSK	135	0	26.18			26.5	0.5
100	PI2 BPSK	135	69	26.23			27.0	0.0
100	PI2 BPSK	135	138	26.11			26.5	0.5
100	PI2 BPSK	270	0	26.12				
100	QPSK	1	1	26.23				
100	QPSK	1	137	26.05			27.0	0.0
100	QPSK	1	211	26.33				
100	QPSK	135	0	25.95				
100	QPSK	135	69	25.94			27.0	0.0
100	QPSK	135	138	26.00				
100	QPSK	270	0	25.99			26.0	1.0
100	16QAM	1	1	24.88			26.0	1.0
100	64QAM	1	1	23.51			24.5	2.5
100	256QAM	1	1	22.27			22.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	26.21	26.19	26.25	27.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	26.13	26.07	26.15	27.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	26.10	26.09	26.12	27.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	26.05	26.05	26.10	27.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	26.06	26.06	26.11	27.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	26.15	26.16	26.13	27.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	26.10	26.10	26.15	27.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	26.10	26.04	26.11	27.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	26.12	26.10	26.11	27.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	26.05	26.08	26.16	27.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	26.16	26.08	26.15	27.0	0.0

### Part270 n78\_Ant 4 Default

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	26.28				
100	PI2 BPSK	1	137	25.92			27.0	0.0
100	PI2 BPSK	1	211	26.25				
100	PI2 BPSK	135	0	25.99			26.5	0.5
100	PI2 BPSK	135	69	26.23			27.0	0.0
100	PI2 BPSK	135	138	26.04			26.5	0.5
100	PI2 BPSK	270	0	25.92				
100	QPSK	1	1	26.00				
100	QPSK	1	137	25.91			27.0	0.0
100	QPSK	1	211	26.39				
100	QPSK	135	0	25.97				
100	QPSK	135	69	26.00			27.0	0.0
100	QPSK	135	138	26.04				
100	QPSK	270	0	25.92			26.0	1.0
100	16QAM	1	1	26.10			26.0	1.0
100	64QAM	1	1	22.65			24.5	2.5
100	256QAM	1	1	21.40			22.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	26.09	25.97	26.04	27.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.84	25.83	25.84	27.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	25.83	25.84	25.84	27.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.93	25.92	25.94	27.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.87	25.85	25.84	27.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.87	25.89	25.82	27.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.85	25.87	25.82	27.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	25.86	25.86	25.90	27.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.93	25.83	25.99	27.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	25.84	25.83	25.97	27.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	25.94	25.83	25.99	27.0	0.0



### Part27Q n78\_Ant 6 Default

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	23.95				
100	PI2 BPSK	1	137	23.70			25.0	0.0
100	PI2 BPSK	1	211	23.50				
100	PI2 BPSK	135	0	23.35			24.5	0.5
100	PI2 BPSK	135	69	23.65			25.0	0.0
100	PI2 BPSK	135	138	23.25			24.5	0.5
100	PI2 BPSK	270	0	23.35				
100	QPSK	1	1	23.84				
100	QPSK	1	137	23.71			25.0	0.0
100	QPSK	1	211	23.59				
100	QPSK	135	0	23.78			25.0	0.0
100	QPSK	135	69	23.65			25.0	0.0
100	QPSK	135	138	23.75			24.0	1.0
100	QPSK	270	0	23.77			24.0	1.0
100	16QAM	1	1	22.57			24.0	1.0
100	64QAM	1	1	21.10			22.5	2.5
100	256QAM	1	1	19.90			20.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	63300	63334	63366	Tune-up limit (dBm)	MPR (dB)
				3495	3500.01	3504.99		
90	PI2 BPSK	1	1	23.85	23.84	23.85	25.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	23.79	23.74	23.84	25.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	23.76	23.72	23.82	25.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	23.73	23.73	23.82	25.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	23.80	23.69	23.85	25.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.72	23.69	23.83	25.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	23.74	23.78	23.80	25.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	23.72	23.78	23.76	25.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	23.81	23.73	23.80	25.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	23.75	23.69	23.84	25.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	23.81	23.71	23.81	25.0	0.0

### Part27Q n78\_Ant 6 Default

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	23.89				
100	PI2 BPSK	1	137	23.56			25.0	0.0
100	PI2 BPSK	1	211	23.88				
100	PI2 BPSK	135	0	23.16			24.5	0.5
100	PI2 BPSK	135	69	23.69			25.0	0.0
100	PI2 BPSK	135	138	23.25			24.5	0.5
100	PI2 BPSK	270	0	23.27				
100	QPSK	1	1	23.65				
100	QPSK	1	137	23.58			25.0	0.0
100	QPSK	1	211	23.87				
100	QPSK	135	0	23.64			25.0	0.0
100	QPSK	135	69	23.65			25.0	0.0
100	QPSK	135	138	23.74			24.0	1.0
100	QPSK	270	0	22.71			24.0	1.0
100	16QAM	1	1	22.39			24.0	1.0
100	64QAM	1	1	20.98			22.5	2.5
100	256QAM	1	1	19.61			20.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	64968	65000	65032	Tune-up limit (dBm)	MPR (dB)
				3740.02	3750	3754.98		
90	PI2 BPSK	1	1	23.87	23.86	23.84	25.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	23.80	23.44	23.48	25.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	23.52	23.52	23.58	25.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	23.54	23.53	23.54	25.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	23.57	23.55	23.52	25.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.62	23.55	23.59	25.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	23.81	23.44	23.42	25.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	23.59	23.44	23.49	25.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	23.62	23.53	23.58	25.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	23.57	23.54	23.49	25.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	23.57	23.47	23.50	25.0	0.0

### Part27Q n78\_Ant 7 Default

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	22.35				
100	PI2 BPSK	1	137	22.16			23.5	0.0
100	PI2 BPSK	1	211	22.33				
100	PI2 BPSK	135	0	21.76			23.0	0.5
100	PI2 BPSK	135	69	22.18			23.5	0.0
100	PI2 BPSK	135	138	21.70			23.0	0.5
100	PI2 BPSK	270	0	21.75				
100	QPSK	1	1	22.27				
100	QPSK	1	137	22.11			23.5	0.0
100	QPSK	1	211	22.31				
100	QPSK	135	0	21.90			23.5	0.0
100	QPSK	135	69	22.07			23.5	0.0
100	QPSK	135	138	22.12			22.5	1.0
100	QPSK	270	0	21.22			22.5	1.0
100	16QAM	1	1	21.04			21.0	1.0
100	64QAM	1	1	19.65			21.0	2.5
100	256QAM	1	1	18.21			18.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	63300	63334	63366	Tune-up limit (dBm)	MPR (dB)
				3495	3500.01	3504.99		
90	PI2 BPSK	1	1	22.22	22.25	22.22	23.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.13	22.23	22.24	23.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	22.15	22.19	22.21	23.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.08	22.16	22.13	23.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	22.13	22.17	22.13	23.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.11	22.25	22.22	23.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.17	22.24	22.17	23.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	22.07	22.24	22.16	23.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.13	22.08	22.15	23.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	22.07	22.17	22.20	23.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	22.11	22.22	22.13	23.5	0.0



### Part270 n78\_Ant 7 Default

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)								
100	Pi2 BPSK	1	1	22.15				
100	Pi2 BPSK	1	137	21.89			23.5	0.0
100	Pi2 BPSK	1	211	22.12				
100	Pi2 BPSK	135	0	21.53			23.0	0.5
100	Pi2 BPSK	135	69	22.05			23.5	0.0
100	Pi2 BPSK	135	138	21.53			23.0	0.5
100	Pi2 BPSK	220	0	21.57				
100	QPSK	1	1	22.06				
100	QPSK	1	137	21.87			23.5	0.0
100	QPSK	1	211	22.06				
100	QPSK	135	0	21.99			23.5	0.0
100	QPSK	135	69	22.00			23.5	0.0
100	QPSK	135	138	22.06			23.5	0.0
100	QPSK	220	0	21.03			22.5	1.0
100	16QAM	1	1	20.82			22.5	1.0
100	16QAM	1	1	19.40			21.0	2.5
100	256QAM	1	1	18.00			18.0	4.5
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	22.01	22.03	22.03	23.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	21.98	21.92	21.96	23.5	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	21.93	21.97	21.92	23.5	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	21.91	21.87	21.96	23.5	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	21.86	21.97	21.94	23.5	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	21.78	21.85	21.86	23.5	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	21.69	21.80	21.84	23.5	0.0
Channel								
Frequency (MHz)								
25	Pi2 BPSK	1	1	21.68	21.85	21.80	23.5	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	21.96	21.98	21.96	23.5	0.0
Channel								
Frequency (MHz)								
15	Pi2 BPSK	1	1	21.93	21.96	21.96	23.5	0.0
Channel								
Frequency (MHz)								
10	Pi2 BPSK	1	1	21.85	21.96	21.97	23.5	0.0

### Part27Q n78\_Ant 8 Default

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)								
100	Pi2 BPSK	1	1	25.79				
100	Pi2 BPSK	1	137	25.54			27.0	0.0
100	Pi2 BPSK	1	211	25.76				
100	Pi2 BPSK	135	0	25.21			26.5	0.5
100	Pi2 BPSK	135	69	25.54			27.0	0.0
100	Pi2 BPSK	135	138	25.15			26.5	0.5
100	Pi2 BPSK	220	0	25.16				
100	QPSK	1	1	25.75				
100	QPSK	1	137	25.56			27.0	0.0
100	QPSK	1	211	25.70				
100	QPSK	135	0	25.67			27.0	0.0
100	QPSK	135	69	25.51			27.0	0.0
100	QPSK	135	138	25.64			27.0	0.0
100	QPSK	220	0	24.93			26.0	1.0
100	16QAM	1	1	24.52			26.0	1.0
100	16QAM	1	1	23.10			24.5	2.5
100	256QAM	1	1	21.66			22.5	4.5
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	25.72	25.74	25.73	27.0	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	25.59	25.64	25.63	27.0	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	25.65	25.64	25.61	27.0	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	25.59	25.58	25.58	27.0	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	25.63	25.64	25.63	27.0	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	25.61	25.61	25.58	27.0	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	25.60	25.60	25.56	27.0	0.0
Channel								
Frequency (MHz)								
25	Pi2 BPSK	1	1	25.61	25.61	25.66	27.0	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	25.66	25.63	25.65	27.0	0.0
Channel								
Frequency (MHz)								
15	Pi2 BPSK	1	1	25.56	25.67	25.63	27.0	0.0
Channel								
Frequency (MHz)								
10	Pi2 BPSK	1	1	25.66	25.59	25.60	27.0	0.0

### Part270 n78\_Ant 8 Default

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)								
100	Pi2 BPSK	1	1	25.69				
100	Pi2 BPSK	1	137	25.43			27.0	0.0
100	Pi2 BPSK	1	211	25.55				
100	Pi2 BPSK	135	0	25.08			26.5	0.5
100	Pi2 BPSK	135	69	25.53			27.0	0.0
100	Pi2 BPSK	135	138	25.14			26.5	0.5
100	Pi2 BPSK	220	0	25.11				
100	QPSK	1	1	25.59				
100	QPSK	1	137	25.46			27.0	0.0
100	QPSK	1	211	25.54				
100	QPSK	135	0	25.63			27.0	0.0
100	QPSK	135	69	25.55			27.0	0.0
100	QPSK	135	138	25.50			27.0	0.0
100	QPSK	220	0	24.53			26.0	1.0
100	16QAM	1	1	24.33			26.0	1.0
100	16QAM	1	1	22.91			24.5	2.5
100	256QAM	1	1	21.49			22.5	4.5
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	25.53	25.54	25.59	27.0	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	25.44	25.38	25.47	27.0	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	25.44	25.47	25.54	27.0	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	25.47	25.39	25.52	27.0	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	25.39	25.43	25.51	27.0	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	25.43	25.42	25.43	27.0	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	25.39	25.39	25.48	27.0	0.0
Channel								
Frequency (MHz)								
25	Pi2 BPSK	1	1	25.40	25.38	25.47	27.0	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	25.37	25.46	25.54	27.0	0.0
Channel								
Frequency (MHz)								
15	Pi2 BPSK	1	1	25.44	25.44	25.50	27.0	0.0
Channel								
Frequency (MHz)								
10	Pi2 BPSK	1	1	25.45	25.43	25.50	27.0	0.0



Reduced power level for 5G NR  
For DFT-15

n5_Ant 0 DSI 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 167300	Power Middle Ch./Freq. 167300	Power High Ch./Freq. 167300	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	25.23	25.26	25.24	25.7	0.0	
20	PI2 BPSK	1	53	25.22	25.25	25.23	25.7	0.0	
20	PI2 BPSK	1	104	25.17	25.17	25.12	25.7	0.0	
20	PI2 BPSK	50	0	24.45	24.47	24.48	25.2	0.5	
20	PI2 BPSK	50	28	24.59	25.08	25.03	25.7	0.0	
20	PI2 BPSK	50	56	24.43	24.51	24.36	25.2	0.5	
20	PI2 BPSK	100	0	24.42	24.57	24.45	25.2	0.5	
20	QPSK	1	1	25.03	25.08	25.00	25.7	0.0	
20	QPSK	1	53	24.93	25.03	24.92	25.7	0.0	
20	QPSK	1	104	24.88	25.01	24.90	25.7	0.0	
20	QPSK	50	0	23.98	24.06	24.01	24.7	1.0	
20	QPSK	50	28	24.94	25.08	24.99	25.7	0.0	
20	QPSK	50	56	23.89	24.04	23.95	24.7	1.0	
20	QPSK	100	0	24.02	24.07	23.92	24.7	1.0	
20	16QAM	1	1	23.81	23.97	23.86	24.7	1.0	
20	16QAM	1	1	22.43	22.58	22.39	23.2	2.5	
20	256QAM	1	1	20.93	21.03	20.92	21.2	4.5	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	166.90	167.300	168.300	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	820	836.5	844	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	166.900	167.300	168.300	Tune-up limit (dBm)	MPR (dB)	

n5_Ant 1 DSI 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 167300	Power Middle Ch./Freq. 167300	Power High Ch./Freq. 167300	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.54	22.62	22.65	23.2	0.0	
20	PI2 BPSK	1	53	22.52	22.59	22.51	23.2	0.0	
20	PI2 BPSK	1	104	22.43	22.48	22.45	23.2	0.0	
20	PI2 BPSK	50	0	22.33	22.40	22.35	23.2	0.0	
20	PI2 BPSK	50	28	22.41	22.45	22.43	23.2	0.0	
20	PI2 BPSK	50	56	22.31	22.34	22.32	23.2	0.0	
20	PI2 BPSK	100	0	22.32	22.35	22.33	23.2	0.0	
20	QPSK	1	1	22.41	22.47	22.43	23.2	0.0	
20	QPSK	1	53	22.36	22.34	22.34	23.2	0.0	
20	QPSK	1	104	22.32	22.42	22.35	23.2	0.0	
20	QPSK	50	0	22.28	22.34	22.24	23.2	0.0	
20	QPSK	50	28	22.27	22.43	22.41	23.2	0.0	
20	QPSK	50	56	22.16	22.32	22.30	23.2	0.0	
20	QPSK	100	0	22.17	22.31	22.21	23.2	0.0	
20	16QAM	1	1	21.99	22.14	22.09	23.2	0.0	
20	16QAM	1	1	22.11	22.18	22.09	23.2	0.0	
20	256QAM	1	1	20.81	20.73	20.66	21.2	2.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	166.900	167.300	168.300	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	820.5	836.5	844.5	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	166.900	167.300	168.300	Tune-up limit (dBm)	MPR (dB)	

n7_Ant 0 DSI 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 507000	Power Middle Ch./Freq. 507000	Power High Ch./Freq. 507000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	22.38	22.41	22.36	24.0	0.0	
50	PI2 BPSK	1	135	22.28	22.28	22.21	24.0	0.0	
50	PI2 BPSK	1	268	22.35	22.24	22.31	24.0	0.0	
50	PI2 BPSK	135	0	21.78	21.83	21.67	23.5	0.5	
50	PI2 BPSK	135	68	22.30	22.38	22.21	24.0	0.0	
50	PI2 BPSK	135	135	21.44	21.53	21.42	23.5	0.5	
50	PI2 BPSK	270	0	21.74	21.75	21.65	23.5	0.5	
50	QPSK	1	1	22.37	22.40	22.35	24.0	0.0	
50	QPSK	1	135	22.28	22.34	22.23	24.0	0.0	
50	QPSK	1	268	22.04	22.11	21.95	23.0	1.0	
50	QPSK	135	0	21.06	21.21	21.15	23.0	1.0	
50	QPSK	135	68	22.13	22.21	22.12	24.0	0.0	
50	QPSK	135	135	20.83	20.93	20.79	23.0	1.0	
50	QPSK	270	0	21.02	21.13	21.06	23.0	1.0	
50	16QAM	1	1	21.21	21.26	21.15	23.0	1.0	
50	16QAM	1	1	18.68	18.78	18.71	21.5	2.5	
50	256QAM	1	1	18.60	18.69	18.56	19.5	4.5	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	506.000	507.000	510.000	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	25.15	25.33	25.29	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	506.500	507.000	510.500	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	25.12	25.35	25.27	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	25.05	25.35	25.62	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.00	22.19	22.02	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	21.96	22.03	21.97	Tune-up limit (dBm)	MPR (dB)	



n7_Ant 2 DSI 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									
Frequency (MHz)									
50	PI2 BPSK	1	1	24.48	24.59	24.66	25.0	0.0	
50	PI2 BPSK	1	135	24.22	24.28	24.14	25.0	0.0	
50	PI2 BPSK	1	268	24.34	24.28	24.55	25.0	0.0	
50	PI2 BPSK	135	0	23.82	23.89	23.80	24.5	0.5	
50	PI2 BPSK	135	68	24.26	24.33	24.29	25.0	0.0	
50	PI2 BPSK	135	135	23.82	23.89	23.78	24.5	0.5	
50	PI2 BPSK	270	0	23.86	23.90	23.82	24.5	0.5	
50	QPSK	1	1	24.34	24.43	24.34	25.0	0.0	
50	QPSK	1	135	23.94	24.10	23.97	25.0	0.0	
50	QPSK	1	268	24.15	24.27	24.21	25.0	0.0	
50	QPSK	135	0	23.73	23.83	23.89	24.0	1.0	
50	QPSK	135	68	24.19	24.24	24.17	25.0	0.0	
50	QPSK	135	135	23.54	23.68	23.56	24.0	1.0	
50	QPSK	270	0	23.67	23.75	23.68	24.0	1.0	
50	16QAM	1	1	23.51	23.62	23.50	24.0	1.0	
50	16QAM	1	1	21.32	21.35	21.30	22.5	2.5	
50	256QAM	1	1	20.34	20.47	20.39	20.5	4.5	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.06	24.39	24.24	25.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.32	24.27	24.32	25.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	23.54	23.41	23.24	23.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.09	24.19	24.07	25.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.08	24.12	24.13	25.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.07	24.14	24.11	25.0	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	24.09	24.12	24.12	25.0	0.0	

n7_Ant 3 DSI 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									
Frequency (MHz)									
50	PI2 BPSK	1	1	16.98	17.12	16.92	17.7	0.0	
50	PI2 BPSK	1	135	16.95	17.01	16.90	17.7	0.0	
50	PI2 BPSK	1	268	16.94	16.96	16.98	17.7	0.0	
50	PI2 BPSK	135	0	16.83	16.85	16.81	17.7	0.0	
50	PI2 BPSK	135	68	17.02	17.07	16.98	17.7	0.0	
50	PI2 BPSK	135	135	17.00	17.05	16.94	17.7	0.0	
50	PI2 BPSK	270	0	17.03	17.11	16.92	17.7	0.0	
50	QPSK	1	1	16.77	16.77	16.63	17.7	0.0	
50	QPSK	1	135	16.53	16.59	16.40	17.7	0.0	
50	QPSK	1	268	16.67	16.75	16.56	17.7	0.0	
50	QPSK	135	0	16.81	16.86	16.73	17.7	0.0	
50	QPSK	135	68	16.95	16.96	16.82	17.7	0.0	
50	QPSK	135	135	16.92	17.03	16.82	17.7	0.0	
50	QPSK	270	0	16.88	17.02	16.90	17.7	0.0	
50	16QAM	1	1	16.64	16.66	16.55	17.7	0.0	
50	16QAM	1	1	16.27	16.38	16.21	17.7	0.0	
50	256QAM	1	1	16.78	16.81	16.70	17.7	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	16.82	16.97	16.77	17.7	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	16.93	16.97	16.83	17.7	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	16.80	17.07	16.78	17.7	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	16.83	17.07	16.76	17.7	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	16.92	17.05	16.80	17.7	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	16.91	16.96	16.77	17.7	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	16.82	16.89	16.84	17.7	0.0	

n7_Ant 5 DSI 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									
Frequency (MHz)									
50	PI2 BPSK	1	1	14.90	15.01	14.95	16.0	0.0	
50	PI2 BPSK	1	135	14.85	14.82	14.89	16.0	0.0	
50	PI2 BPSK	1	268	14.80	14.91	14.80	16.0	0.0	
50	PI2 BPSK	135	0	14.80	14.88	14.85	16.0	0.0	
50	PI2 BPSK	135	68	14.85	14.98	14.90	16.0	0.0	
50	PI2 BPSK	135	135	14.84	14.95	14.87	16.0	0.0	
50	PI2 BPSK	270	0	14.82	14.95	14.85	16.0	0.0	
50	QPSK	1	1	14.84	14.82	14.74	16.0	0.0	
50	QPSK	1	135	14.49	14.67	14.66	16.0	0.0	
50	QPSK	1	268	14.63	14.78	14.79	16.0	0.0	
50	QPSK	135	0	14.81	14.78	14.76	16.0	0.0	
50	QPSK	135	68	14.78	14.82	14.83	16.0	0.0	
50	QPSK	135	135	14.85	14.89	14.80	16.0	0.0	
50	QPSK	270	0	14.79	14.84	14.85	16.0	0.0	
50	16QAM	1	1	14.83	14.77	14.72	16.0	0.0	
50	16QAM	1	1	14.32	14.46	14.46	16.0	0.0	
50	256QAM	1	1	14.72	14.82	14.81	16.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	14.75	14.93	14.87	16.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	14.85	14.93	14.84	16.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	14.77	14.89	14.80	16.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	14.74	14.89	14.80	16.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	14.83	14.89	14.80	16.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	14.80	14.96	14.89	16.0	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	14.78	14.84	14.85	16.0	0.0	



For DFT-30

n38_Ant 0 DSI 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									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.83	22.89	22.80			
40	PI2 BPSK	1	53	22.73	22.68	22.66	24.0	0.0	
40	PI2 BPSK	1	104	22.47	22.34	22.23			
40	PI2 BPSK	50	0	21.87	22.02	21.92	23.5	0.5	
40	PI2 BPSK	50	28	22.36	22.75	22.34	24.0	0.0	
40	PI2 BPSK	50	56	22.01	22.15	22.09			
40	PI2 BPSK	100	0	22.35	22.25	22.12	23.5	0.5	
40	QPSK	1	1	22.69	22.74	22.69			
40	QPSK	1	53	22.37	22.56	22.35	24.0	0.0	
40	QPSK	1	104	22.24	22.59	22.26			
40	QPSK	50	0	22.38	22.65	22.39			
40	QPSK	50	28	22.31	22.53	22.29	24.0	0.0	
40	QPSK	50	56	22.17	22.01	22.11			
40	QPSK	100	0	21.52	21.55	21.53	23.0	1.0	
40	16QAM	1	1	21.24	21.54	21.16	23.0	1.0	
40	64QAM	1	1	20.05	20.12	20.05	21.5	2.5	
40	256QAM	1	1	18.41	18.48	18.43	19.3	4.5	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	22.53	22.69	22.56	24.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	21.80	21.91	21.76	24.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.55	22.74	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.50	22.61	22.50	24.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.61	22.65	22.61	24.0	0.0	

n38_Ant 2 DSI 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									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.94	24.98	24.98			
40	PI2 BPSK	1	53	24.82	24.83	24.74	25.5	0.0	
40	PI2 BPSK	1	104	24.36	24.50	24.82			
40	PI2 BPSK	50	0	24.07	24.22	24.12	25.0	0.5	
40	PI2 BPSK	50	28	24.54	24.69	24.55	25.5	0.0	
40	PI2 BPSK	50	56	24.36	24.07	23.93			
40	PI2 BPSK	100	0	24.04	24.16	24.08	25.0	0.5	
40	QPSK	1	1	24.89	24.97	24.91			
40	QPSK	1	53	24.69	24.75	24.67	25.5	0.0	
40	QPSK	1	104	24.55	24.77	24.61			
40	QPSK	50	0	24.37	24.51	24.41			
40	QPSK	50	28	24.36	24.48	24.39	25.5	0.0	
40	QPSK	50	56	24.33	24.38	24.24			
40	QPSK	100	0	23.87	23.84	23.73	24.5	1.0	
40	16QAM	1	1	23.57	23.63	23.49	24.5	1.0	
40	64QAM	1	1	22.03	22.12	21.98	23.0	2.5	
40	256QAM	1	1	20.67	20.82	20.72	21.0	4.5	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.71	24.82	24.70	25.5	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	24.01	24.16	24.08	25.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.72	24.86	24.72	25.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.71	24.79	24.75	25.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.74	24.73	24.68	25.5	0.0	

n38_Ant 3 DSI 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									
Frequency (MHz)									
40	PI2 BPSK	1	1	18.54	18.66	18.57			
40	PI2 BPSK	1	53	18.52	18.61	18.53	18.7	0.0	
40	PI2 BPSK	1	104	18.50	18.53	18.50			
40	PI2 BPSK	50	0	18.42	18.48	18.47	18.7	0.0	
40	PI2 BPSK	50	28	18.54	18.60	18.57	18.7	0.0	
40	PI2 BPSK	50	56	18.45	18.49	18.47			
40	PI2 BPSK	100	0	18.46	18.48	18.47	18.7	0.0	
40	QPSK	1	1	18.41	18.53	18.44			
40	QPSK	1	53	18.39	18.55	18.53	18.7	0.0	
40	QPSK	1	104	18.32	18.52	18.50			
40	QPSK	50	0	18.38	18.46	18.37			
40	QPSK	50	28	18.37	18.56	18.52	18.7	0.0	
40	QPSK	50	56	18.33	18.45	18.38			
40	QPSK	100	0	18.24	18.44	18.35	18.7	0.0	
40	16QAM	1	1	18.16	18.31	18.25	18.7	0.0	
40	64QAM	1	1	18.17	18.35	18.27	18.7	0.0	
40	256QAM	1	1	18.20	18.30	18.25	18.7	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	18.42	18.54	18.48	18.7	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	18.42	18.49	18.47	18.7	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	18.45	18.53	18.52	18.7	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	18.45	18.55	18.50	18.7	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	18.40	18.52	18.46	18.7	0.0	



n38_Ant 5 DSI 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									
Frequency (MHz)									
40	PI2 BPSK	1	1	14.85	15.06	14.92	16.0	0.0	
40	PI2 BPSK	1	33	14.78	14.90	14.82			
40	PI2 BPSK	1	104	14.76	14.88	14.79	16.0	0.0	
40	PI2 BPSK	50	0	14.78	14.83	14.81			
40	PI2 BPSK	50	28	14.75	14.85	14.82	16.0	0.0	
40	PI2 BPSK	50	56	14.89	14.74	14.71			
40	PI2 BPSK	100	0	14.74	14.77	14.75	16.0	0.0	
40	QPSK	1	1	14.73	14.81	14.67			
40	QPSK	1	33	14.77	14.88	14.78	16.0	0.0	
40	QPSK	1	104	14.63	14.68	14.60			
40	QPSK	50	0	14.67	14.78	14.68	16.0	0.0	
40	QPSK	50	28	14.63	14.77	14.64			
40	QPSK	50	56	14.64	14.72	14.69	16.0	0.0	
40	QPSK	100	0	14.70	14.77	14.71			
40	16QAM	1	1	14.58	14.73	14.63	16.0	0.0	
40	64QAM	1	1	14.32	14.44	14.28			
40	256QAM	1	1	14.81	14.92	14.77	16.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	14.73	15.00	14.77	16.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	14.74	14.97	14.79	16.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	14.80	14.94	14.83	16.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	14.79	14.94	14.79	16.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	14.74	14.90	14.87	16.0	0.0	
Channel									
Frequency (MHz)									

n41_Ant 0 DSI 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									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.45	23.57	23.58	24.5	0.0	
100	PI2 BPSK	1	137	23.38	23.42	23.40			
100	PI2 BPSK	1	211	23.31	23.38	23.32	24.0	0.5	
100	PI2 BPSK	135	0	23.27	23.04	23.24			
100	PI2 BPSK	135	69	23.41	23.48	23.42	24.5	0.0	
100	PI2 BPSK	135	138	22.40	22.54	22.48			
100	PI2 BPSK	270	0	22.68	22.74	22.69	24.0	0.5	
100	QPSK	1	1	23.25	23.35	23.25			
100	QPSK	1	137	23.28	23.32	23.31	24.5	0.0	
100	QPSK	1	211	23.01	23.05	23.03			
100	QPSK	135	0	23.00	23.03	23.01	24.5	0.0	
100	QPSK	135	69	23.21	23.32	23.24			
100	QPSK	135	138	23.15	23.28	23.21	24.5	1.0	
100	QPSK	270	0	22.28	22.38	22.31			
100	16QAM	1	1	22.03	22.17	22.10	23.5	1.0	
100	64QAM	1	1	20.57	20.85	20.56			
100	256QAM	1	1	19.28	19.28	19.21	20.0	4.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	23.24	23.37	23.25	24.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	23.29	23.33	23.24	24.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	23.29	23.15	23.28	24.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	23.22	23.34	23.31	24.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	23.21	23.34	23.27	24.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	23.23	23.23	23.24	24.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	23.32	23.15	23.25	24.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	23.23	23.41	23.25	24.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	23.26	23.39	23.30	24.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	23.09	23.15	23.06	24.5	0.0	
Channel									
Frequency (MHz)									

n41_Ant 2 DSI 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									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.96	25.10	25.01	25.5	0.0	
100	PI2 BPSK	1	137	24.83	25.02	24.99			
100	PI2 BPSK	1	211	24.85	24.95	24.83	25.0	0.5	
100	PI2 BPSK	135	0	24.67	24.85	24.65			
100	PI2 BPSK	135	69	24.71	24.87	24.75	25.5	0.0	
100	PI2 BPSK	135	138	24.45	24.61	24.51			
100	PI2 BPSK	270	0	24.82	24.71	24.61	25.0	0.5	
100	QPSK	1	1	24.94	25.01	24.88			
100	QPSK	1	137	24.48	24.63	24.58	25.5	0.0	
100	QPSK	1	211	24.81	24.71	24.59			
100	QPSK	135	0	24.07	24.23	24.16	24.5	0.0	
100	QPSK	135	69	24.56	24.66	24.54			
100	QPSK	135	138	24.05	24.03	24.05	24.5	1.0	
100	QPSK	270	0	24.03	24.10	23.97			
100	16QAM	1	1	24.21	24.35	24.19	24.5	1.0	
100	64QAM	1	1	22.75	22.82	22.77			
100	256QAM	1	1	21.14	21.23	21.21	21.0	4.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	24.96	25.06	24.87	25.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	24.99	24.95	24.97	25.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	24.96	24.87	25.02	25.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	25.00	25.08	24.99	25.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	24.92	25.01	24.94	25.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.92	24.91	24.58	23.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.99	24.81	25.00	25.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.90	24.46	24.28	25.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.31	24.45	24.25	25.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.27	24.36	24.29	25.5	0.0	
Channel									
Frequency (MHz)									



n41_Ant 3 DSI 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									
Frequency (MHz)									
100	PI2 BPSK	1	1	17.95	18.03	17.87			
100	PI2 BPSK	1	137	17.90	17.94	17.85	18.2	0.0	
100	PI2 BPSK	1	211	17.88	17.86	17.86			
100	PI2 BPSK	135	0	17.82	17.84	17.80	18.2	0.0	
100	PI2 BPSK	135	69	17.92	17.90	17.89	18.2	0.0	
100	PI2 BPSK	135	138	17.91	17.95	17.86	18.2	0.0	
100	PI2 BPSK	210	0	17.82	17.84	17.80			
100	QPSK	1	1	17.62	17.70	17.60			
100	QPSK	1	137	17.94	17.97	17.77	18.2	0.0	
100	QPSK	1	211	17.73	17.84	17.64			
100	QPSK	135	0	17.72	17.82	17.72			
100	QPSK	135	69	17.83	17.91	17.80	18.2	0.0	
100	QPSK	135	138	17.72	17.76	17.68			
100	QPSK	210	0	17.72	17.81	17.66	18.2	0.0	
100	16QAM	1	1	17.41	17.41	17.31	18.2	0.0	
100	64QAM	1	1	17.41	17.46	17.26	18.2	0.0	
100	256QAM	1	1	18.01	18.02	17.80	18.2	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	17.85	17.86	17.70	18.2	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	17.87	17.82	17.71	18.2	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	17.86	17.91	17.80	18.2	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	17.87	17.83	17.70	18.2	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	17.83	17.87	17.74	18.2	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.83	17.85	17.72	18.2	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	17.81	17.88	17.73	18.2	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	17.83	17.85	17.76	18.2	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	17.88	17.94	17.71	18.2	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	17.82	17.85	17.74	18.2	0.0	

n41_Ant 5 DSI 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									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.17	15.19	15.12			
100	PI2 BPSK	1	137	15.09	15.15	15.11	16.0	0.0	
100	PI2 BPSK	1	211	15.08	15.13	15.10			
100	PI2 BPSK	135	0	15.02	15.12	15.08	16.0	0.0	
100	PI2 BPSK	135	69	15.10	15.14	15.12	16.0	0.0	
100	PI2 BPSK	135	138	15.00	15.06	15.02	16.0	0.0	
100	PI2 BPSK	210	0	15.09	15.12	15.10			
100	QPSK	1	1	14.73	14.83	14.83			
100	QPSK	1	137	15.00	15.16	15.07	16.0	0.0	
100	QPSK	1	211	14.74	14.84	14.83			
100	QPSK	135	0	14.97	15.13	15.08			
100	QPSK	135	69	15.00	15.16	15.10	16.0	0.0	
100	QPSK	135	138	14.83	15.02	14.99			
100	QPSK	210	0	14.99	15.16	15.11	16.0	0.0	
100	16QAM	1	1	14.64	14.84	14.83	16.0	0.0	
100	64QAM	1	1	14.41	14.82	14.48	16.0	0.0	
100	256QAM	1	1	14.79	14.97	14.80	16.0	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	15.00	15.03	15.00	16.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	14.98	15.14	15.06	16.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	14.96	15.03	15.05	16.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	14.99	15.10	14.97	16.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	14.95	15.08	15.05	16.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	15.00	15.06	15.07	16.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	14.97	15.13	15.02	16.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	14.98	15.11	15.01	16.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	14.98	15.06	15.04	16.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	14.99	15.13	15.06	16.0	0.0	

Par27Q n77_Ant 4 DSI 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									
Frequency (MHz)									
100	PI2 BPSK	1	1		15.99				
100	PI2 BPSK	1	137		15.96		16.2	0.0	
100	PI2 BPSK	1	211		15.72				
100	PI2 BPSK	135	0		15.93		16.2	0.0	
100	PI2 BPSK	135	69		15.99		16.2	0.0	
100	PI2 BPSK	135	138		15.87		16.2	0.0	
100	PI2 BPSK	210	0		15.98		16.2	0.0	
100	QPSK	1	1		15.87				
100	QPSK	1	137		15.87		16.2	0.0	
100	QPSK	1	211		15.69				
100	QPSK	135	0		15.98		16.2	0.0	
100	QPSK	135	69		15.93		16.2	0.0	
100	QPSK	135	138		15.80		16.2	0.0	
100	QPSK	210	0		15.81		16.2	0.0	
100	16QAM	1	1		15.68		16.2	0.0	
100	64QAM	1	1		15.68		16.2	0.0	
100	256QAM	1	1		15.70		16.2	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	15.79	15.82	15.73	16.2	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	15.86	15.77	15.61	16.2	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	15.61	15.76	15.59	16.2	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	15.65	15.66	15.58	16.2	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	15.67	15.68	15.62	16.2	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	15.70	15.74	15.63	16.2	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	15.64	15.69	15.62	16.2	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	15.70	15.72	15.68	16.2	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	15.59	15.67	15.68	16.2	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	15.66	15.70	15.66	16.2	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	15.60	15.71	15.61	16.2	0.0	



### Par270 n77\_Ant 4 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.79	15.85	15.82		
100	PI2 BPSK	1	137	15.73	15.84	15.75	16.2	0.0
100	PI2 BPSK	1	211	15.65	15.71	15.68		
100	PI2 BPSK	135	0	15.70	15.72	15.71	16.2	0.0
100	PI2 BPSK	135	69	15.79	15.84	15.72	16.2	0.0
100	PI2 BPSK	135	138	15.68	15.82	15.70	16.2	0.0
100	PI2 BPSK	210	0	15.65	15.65	15.65		
100	QPSK	1	1	15.63	15.62	15.76		
100	QPSK	1	137	15.68	15.80	15.79	16.2	0.0
100	QPSK	1	211	15.49	15.64	15.56		
100	QPSK	135	0	15.63	15.62	15.77		
100	QPSK	135	69	15.59	15.75	15.72	16.2	0.0
100	QPSK	135	138	15.60	15.81	15.81	16.2	0.0
100	QPSK	210	0	15.64	15.63	15.74		
100	16QAM	1	1	15.43	15.53	15.42	16.2	0.0
100	64QAM	1	1	15.38	15.54	15.45	16.2	0.0
100	256QAM	1	1	15.54	15.72	15.70	16.2	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.63	15.70	15.72	16.2	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.65	15.74	15.66	16.2	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	15.63	15.72	15.68	16.2	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	15.72	15.77	15.75	16.2	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	15.74	15.77	15.67	16.2	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.66	15.71	15.60	16.2	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	15.72	15.71	15.60	16.2	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	15.68	15.71	15.75	16.2	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	15.66	15.70	15.71	16.2	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	15.68	15.77	15.66	16.2	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	15.65	15.76	15.70	16.2	0.0

### Par27Q n77\_Ant 6 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.23				
100	PI2 BPSK	1	137	16.21			17.5	0.0
100	PI2 BPSK	1	211	15.97				
100	PI2 BPSK	135	0	16.12			17.5	0.0
100	PI2 BPSK	135	69	16.15			17.5	0.0
100	PI2 BPSK	135	138	16.06			17.5	0.0
100	PI2 BPSK	210	0	16.10				
100	QPSK	1	1	16.13				
100	QPSK	1	137	16.21			17.5	0.0
100	QPSK	1	211	15.97				
100	QPSK	135	0	16.08			17.5	0.0
100	QPSK	135	69	16.16			17.5	0.0
100	QPSK	135	138	16.06			17.5	0.0
100	QPSK	210	0	16.14				
100	16QAM	1	1	15.88			17.5	0.0
100	64QAM	1	1	15.92			17.5	0.0
100	256QAM	1	1	16.02			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.18	16.22	16.13	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.13	16.17	16.01	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.08	16.16	16.04	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.05	16.08	15.98	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.12	16.15	16.02	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.13	16.15	16.01	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.03	16.06	16.04	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.02	16.10	16.07	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.03	16.06	16.07	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.06	16.13	16.01	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.05	16.07	16.04	17.5	0.0

### Par270 n77\_Ant 6 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.05	16.13	16.10		
100	PI2 BPSK	1	137	15.95	16.05	15.99	17.5	0.0
100	PI2 BPSK	1	211	15.90	15.98	15.92		
100	PI2 BPSK	135	0	15.90	16.06	15.97	17.5	0.0
100	PI2 BPSK	135	69	16.02	16.10	16.08	17.5	0.0
100	PI2 BPSK	135	138	15.96	16.02	16.01	17.5	0.0
100	PI2 BPSK	210	0	15.95	16.11	16.01		
100	QPSK	1	1	15.85	15.98	15.81		
100	QPSK	1	137	15.87	16.03	16.02	17.5	0.0
100	QPSK	1	211	15.74	15.84	15.80		
100	QPSK	135	0	15.89	16.05	16.02		
100	QPSK	135	69	15.92	16.08	15.99	17.5	0.0
100	QPSK	135	138	15.86	16.04	16.02	17.5	0.0
100	QPSK	210	0	15.92	16.05	16.05		
100	16QAM	1	1	15.61	15.77	15.75	17.5	0.0
100	64QAM	1	1	15.69	15.81	15.81	17.5	0.0
100	256QAM	1	1	15.88	16.00	16.07	17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.99	15.97	16.02	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.92	16.06	16.05	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	15.92	16.06	15.99	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	15.89	16.02	16.00	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	15.97	16.00	16.02	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.94	16.07	16.02	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	15.84	15.99	15.90	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	15.94	16.01	16.01	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	15.96	16.01	15.99	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	15.94	16.00	16.01	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	15.89	15.99	15.94	17.5	0.0



### Par27Q n77\_Ant 7 DSI 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								
Frequency (MHz)								
100	P12 BPSK	1	1	14.36				
100	P12 BPSK	1	137	14.27			15.5	0.0
100	P12 BPSK	1	211	14.22				
100	P12 BPSK	135	0	14.25			15.5	0.0
100	P12 BPSK	135	69	14.33			15.5	0.0
100	P12 BPSK	135	138	14.16			15.5	0.0
100	P12 BPSK	270	0	14.26				
100	QPSK	1	1	14.28				
100	QPSK	1	137	14.25			15.5	0.0
100	QPSK	1	211	14.01				
100	QPSK	135	0	14.28				
100	QPSK	135	69	14.25			15.5	0.0
100	QPSK	135	138	14.05			15.5	0.0
100	QPSK	270	0	14.23				
100	16QAM	1	1	14.05			15.5	0.0
100	64QAM	1	1	14.04			15.5	0.0
100	256QAM	1	1	14.30			15.5	0.0
Channel								
Frequency (MHz)								
63300	63334	63366					Tune-up limit (dBm)	MPR (dB)
3495	3500.01	3504.99						
90	P12 BPSK	1	1	14.32	14.30	14.33	15.5	0.0
Channel								
Frequency (MHz)								
3490.02	3500.01	3510					Tune-up limit (dBm)	MPR (dB)
80	P12 BPSK	1	1	14.16	14.30	14.22	15.5	0.0
Channel								
Frequency (MHz)								
3495.01	3500.01	3514.98					Tune-up limit (dBm)	MPR (dB)
70	P12 BPSK	1	1	14.26	14.19	14.18	15.5	0.0
Channel								
Frequency (MHz)								
63200	63334	63466					Tune-up limit (dBm)	MPR (dB)
3495	3500.01	3514.99						
60	P12 BPSK	1	1	14.17	14.19	14.20	15.5	0.0
Channel								
Frequency (MHz)								
631668	633334	635000					Tune-up limit (dBm)	MPR (dB)
3495.02	3500.01	3514.99						
50	P12 BPSK	1	1	14.16	14.22	14.24	15.5	0.0
Channel								
Frequency (MHz)								
631334	633334	635332					Tune-up limit (dBm)	MPR (dB)
3470.01	3500.01	3520.98						
40	P12 BPSK	1	1	14.24	14.21	14.20	15.5	0.0
Channel								
Frequency (MHz)								
631000	633334	635666					Tune-up limit (dBm)	MPR (dB)
3495	3500.01	3534.99						
30	P12 BPSK	1	1	14.16	14.20	14.22	15.5	0.0
Channel								
Frequency (MHz)								
63050	633334	635000					Tune-up limit (dBm)	MPR (dB)
3492.51	3500.01	3537.48						
25	P12 BPSK	1	1	14.17	14.26	14.26	15.5	0.0
Channel								
Frequency (MHz)								
3490.02	3500.01	3540					Tune-up limit (dBm)	MPR (dB)
20	P12 BPSK	1	1	14.24	14.28	14.29	15.5	0.0
Channel								
Frequency (MHz)								
630500	633334	636166					Tune-up limit (dBm)	MPR (dB)
3497.5	3500.01	3544.99						
15	P12 BPSK	1	1	14.23	14.30	14.22	15.5	0.0
Channel								
Frequency (MHz)								
630334	633334	636332					Tune-up limit (dBm)	MPR (dB)
3485.01	3500.01	3544.98						
10	P12 BPSK	1	1	14.27	14.26	14.26	15.5	0.0

### Par27Q n77\_Ant 7 DSI 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								
Frequency (MHz)								
100	P12 BPSK	1	1	13.95	14.04	13.91		
100	P12 BPSK	1	137	13.92	14.00	13.88	15.5	0.0
100	P12 BPSK	1	211	13.92	13.98	13.89		
100	P12 BPSK	135	0	13.90	13.92	13.88	15.5	0.0
100	P12 BPSK	135	69	13.93	14.02	13.91	15.5	0.0
100	P12 BPSK	135	138	13.92	13.96	13.90	15.5	0.0
100	P12 BPSK	270	0	13.95	14.01	13.92		
100	QPSK	1	1	13.99	14.01	13.87		
100	QPSK	1	137	13.98	14.03	13.83	15.5	0.0
100	QPSK	1	211	13.68	13.73	13.81		
100	QPSK	135	0	13.91	14.02	13.88		
100	QPSK	135	69	13.95	14.00	13.84	15.5	0.0
100	QPSK	135	138	13.95	13.95	13.79	15.5	0.0
100	QPSK	270	0	13.95	14.02	13.82	15.5	0.0
100	16QAM	1	1	13.67	13.77	13.58	15.5	0.0
100	64QAM	1	1	13.72	13.81	13.67	15.5	0.0
100	256QAM	1	1	13.91	13.98	13.83	15.5	0.0
Channel								
Frequency (MHz)								
649668	650000	652332					Tune-up limit (dBm)	MPR (dB)
3740.02	3840	3934.98						
90	P12 BPSK	1	1	13.80	13.95	13.84	15.5	0.0
Channel								
Frequency (MHz)								
3740.01	3840	3938.99					Tune-up limit (dBm)	MPR (dB)
80	P12 BPSK	1	1	13.89	13.93	13.83	15.5	0.0
Channel								
Frequency (MHz)								
649600	650000	650000					Tune-up limit (dBm)	MPR (dB)
3745.01	3840	3945						
70	P12 BPSK	1	1	13.83	13.90	13.84	15.5	0.0
Channel								
Frequency (MHz)								
648968	650000	653332					Tune-up limit (dBm)	MPR (dB)
3740.01	3840	3949.98						
60	P12 BPSK	1	1	13.81	13.96	13.74	15.5	0.0
Channel								
Frequency (MHz)								
648334	650000	653666					Tune-up limit (dBm)	MPR (dB)
3745.01	3840	3954.99						
50	P12 BPSK	1	1	13.88	13.90	13.83	15.5	0.0
Channel								
Frequency (MHz)								
648000	650000	654000					Tune-up limit (dBm)	MPR (dB)
3742	3840	3960						
40	P12 BPSK	1	1	13.89	13.94	13.85	15.5	0.0
Channel								
Frequency (MHz)								
647668	650000	654332					Tune-up limit (dBm)	MPR (dB)
3745.02	3840	3964.98						
30	P12 BPSK	1	1	13.86	13.90	13.70	15.5	0.0
Channel								
Frequency (MHz)								
647500	650000	654500					Tune-up limit (dBm)	MPR (dB)
3742.51	3840	3969.99						
25	P12 BPSK	1	1	13.86	13.90	13.84	15.5	0.0
Channel								
Frequency (MHz)								
647168	650000	654832					Tune-up limit (dBm)	MPR (dB)
3747.52	3840	3974.98						
20	P12 BPSK	1	1	13.88	13.98	13.77	15.5	0.0
Channel								
Frequency (MHz)								
647168	650000	654932					Tune-up limit (dBm)	MPR (dB)
3747.52	3840	3974.98						
15	P12 BPSK	1	1	13.82	13.93	13.78	15.5	0.0
Channel								
Frequency (MHz)								
647000	650000	655000					Tune-up limit (dBm)	MPR (dB)
3740	3840	3978						
10	P12 BPSK	1	1	13.82	13.89	13.84	15.5	0.0

### Par27Q n77\_Ant 8 DSI 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								
Frequency (MHz)								
100	P12 BPSK	1	1	22.36				
100	P12 BPSK	1	137	22.35			23.2	0.0
100	P12 BPSK	1	211	22.33				
100	P12 BPSK	135	0	22.32			23.2	0.0
100	P12 BPSK	135	69	22.33			23.2	0.0
100	P12 BPSK	135	138	22.14			23.2	0.0
100	P12 BPSK	270	0	22.28				
100	QPSK	1	1	22.28				
100	QPSK	1	137	22.34			23.2	0.0
100	QPSK	1	211	21.98				
100	QPSK	135	0	22.33				
100	QPSK	135	69	22.28			23.2	0.0
100	QPSK	135	138	22.12			23.2	0.0
100	QPSK	270	0	22.25				
100	16QAM	1	1	22.08			23.2	0.0
100	64QAM	1	1	22.13			23.2	0.0
100	256QAM	1	1	20.72			21.2	2.0
Channel								
Frequency (MHz)								
633000	633334	633666					Tune-up limit (dBm)	MPR (dB)
3495	3500.01	3504.99						
90	P12 BPSK	1	1	22.30	22.32	22.27	23.2	0.0
Channel								
Frequency (MHz)								
3490.02	3500.01	3510					Tune-up limit (dBm)	MPR (dB)
80	P12 BPSK	1	1	22.16	22.21	22.12	23.2	0.0
Channel								
Frequency (MHz)								
632334	633334	634332					Tune-up limit (dBm)	MPR (dB)
3500.01	3500.01	3514.98						
70	P12 BPSK	1	1	22.25	22.16	22.13	23.2	0.0
Channel								
Frequency (MHz)								
632000	633334	634666					Tune-up limit (dBm)	MPR (dB)
3495	3500.01	3514.99						
60	P12 BPSK	1	1	22.14	22.20	22.19	23.2	0.0
Channel								
Frequency (MHz)								
631668	633334	635000					Tune-up limit (dBm)	MPR (dB)
3495.02	3500.01	3514.99						
50	P12 BPSK	1	1	22.19	22.25	22.13	23.2	0.0
Channel								
Frequency (MHz)								
631334	633334	635332					Tune-up limit (dBm)	MPR (dB)
3470.01	3500.01	3529.98						
40	P12 BPSK	1	1	22.24	22.22	22.17	23.2	0.0
Channel								
Frequency (MHz)								
631000	633334	635666					Tune-up limit (dBm)	MPR (dB)
3495	3500.01	3534.99						
30	P12 BPSK	1	1	22.25	22.24	22.20	23.2	0.0
Channel								
Frequency (MHz)								
630500	633334	635000					Tune-up limit (dBm)	MPR (dB)
3492.51	3500.01	3537.48						
25	P12 BPSK	1	1	22.14	22.19	22.18	23.2	0.0
Channel								
Frequency (MHz)								
3490.02	3500.01	3540					Tune-up limit (dBm)	MPR (dB)
20	P12 BPSK	1	1	22.22	22.22	22.19	23.2	0.0
Channel								
Frequency (MHz)								
630500	633334	636166					Tune-up limit (dBm)	MPR (dB)
3497.5	3500.01	3544.99						
15	P12 BPSK	1	1	22.18	22.17	22.17	23.2	0.0
Channel								
Frequency (MHz)								
630334	633334	636332					Tune-up limit (dBm)	MPR (dB)
3485.01	3500.01	3544.98						
10	P12 BPSK	1	1	22.20	22.25	22.15	23.2	0.0



### Par270 n77\_Ant 8 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.10	22.23	22.12		
100	PI2 BPSK	1	137	22.08	22.14	22.10	23.2	0.0
100	PI2 BPSK	1	211	22.05	22.12	22.08		
100	PI2 BPSK	135	0	22.01	22.07	22.02	23.2	0.0
100	PI2 BPSK	135	69	22.03	22.18	22.10	23.2	0.0
100	PI2 BPSK	138	138	21.89	22.04	21.95	23.2	0.0
100	PI2 BPSK	210	0	21.92	22.05	21.98		
100	QPSK	1	1	21.89	22.08	22.04		
100	QPSK	1	137	21.92	22.13	22.05	23.2	0.0
100	QPSK	1	211	21.83	21.94	21.89		
100	QPSK	135	0	21.90	22.08	21.98	23.2	0.0
100	QPSK	135	69	21.93	22.12	22.05	23.2	0.0
100	QPSK	138	138	21.80	21.98	21.88	23.2	0.0
100	QPSK	210	0	21.87	22.04	21.93	23.2	0.0
100	16QAM	1	1	21.70	21.83	21.74	23.2	0.0
100	64QAM	1	1	21.72	21.85	21.85	23.2	0.0
100	256QAM	1	1	21.78	21.91	21.83	21.2	2.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	3745.02	3840	3834.98	Tune-up limit (dBm)	MPR (dB)
90	PI2 BPSK	1	1	22.02	22.13	22.06	23.2	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.04	22.07	21.96	23.2	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	21.98	22.16	21.96	23.2	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	21.90	22.05	22.03	23.2	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	21.85	22.17	22.00	23.2	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.04	22.06	22.00	23.2	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	21.89	22.09	22.07	23.2	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	21.85	22.10	22.00	23.2	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.03	22.18	22.01	23.2	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	22.02	22.18	21.99	23.2	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	21.95	22.11	22.05	23.2	0.0

### Part27Q n78\_Ant 4 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.46				
100	PI2 BPSK	1	137	15.33			16.0	0.0
100	PI2 BPSK	1	211	15.38				
100	PI2 BPSK	135	0	15.44			16.0	0.0
100	PI2 BPSK	135	69	15.48			16.0	0.0
100	PI2 BPSK	138	138	15.24			16.0	0.0
100	PI2 BPSK	210	0	15.38				
100	QPSK	1	1	15.11				
100	QPSK	1	137	15.06			16.0	0.0
100	QPSK	1	211	15.34				
100	QPSK	135	0	15.42			16.0	0.0
100	QPSK	135	69	15.37			16.0	0.0
100	QPSK	138	138	15.22			16.0	0.0
100	QPSK	210	0	15.32			16.0	0.0
100	16QAM	1	1	15.09			16.0	0.0
100	64QAM	1	1	15.13			16.0	0.0
100	256QAM	1	1	15.40			16.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.40	15.42	15.35	16.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.34	15.28	15.20	16.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	15.29	15.34	15.28	16.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	15.25	15.35	15.22	16.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	15.26	15.27	15.23	16.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.32	15.29	15.23	16.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	15.34	15.30	15.24	16.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	15.32	15.35	15.23	16.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	15.27	15.31	15.21	16.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	15.30	15.36	15.21	16.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	15.29	15.31	15.20	16.0	0.0

### Part27Q n78\_Ant 4 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.18				
100	PI2 BPSK	1	137	15.11			16.0	0.0
100	PI2 BPSK	1	211	15.24				
100	PI2 BPSK	135	0	15.13			16.0	0.0
100	PI2 BPSK	135	69	15.14			16.0	0.0
100	PI2 BPSK	138	138	15.11			16.0	0.0
100	PI2 BPSK	210	0	15.12			16.0	0.0
100	QPSK	1	1	14.88				
100	QPSK	1	137	15.13			16.0	0.0
100	QPSK	1	211	15.03				
100	QPSK	135	0	15.14			16.0	0.0
100	QPSK	135	69	15.15			16.0	0.0
100	QPSK	138	138	15.09			16.0	0.0
100	QPSK	210	0	15.13			16.0	0.0
100	16QAM	1	1	14.80			16.0	0.0
100	64QAM	1	1	14.78			16.0	0.0
100	256QAM	1	1	14.85			16.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.10	15.12	15.05	16.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.04	14.96	14.95	16.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	14.96	14.97	14.99	16.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	14.98	15.07	14.91	16.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	15.00	15.07	14.97	16.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.03	14.95	14.88	16.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	14.99	15.02	14.92	16.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	14.99	15.01	14.90	16.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	14.94	14.97	14.97	16.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	14.97	14.98	14.92	16.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	14.98	15.00	14.93	16.0	0.0



### Part27Q n78\_Ant 6 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.56				
100	PI2 BPSK	1	137	16.46			17.5	0.0
100	PI2 BPSK	1	211	16.28				
100	PI2 BPSK	135	0	16.33			17.5	0.0
100	PI2 BPSK	135	69	16.50			17.5	0.0
100	PI2 BPSK	135	138	16.32			17.5	0.0
100	PI2 BPSK	270	0	16.52				
100	QPSK	1	1	16.41				
100	QPSK	1	137	16.43			17.5	0.0
100	QPSK	1	211	16.28				
100	QPSK	135	0	16.52			17.5	0.0
100	QPSK	135	69	16.46			17.5	0.0
100	QPSK	135	138	16.34			17.5	0.0
100	QPSK	270	0	16.48				
100	16QAM	1	1	16.25			17.5	0.0
100	64QAM	1	1	16.24			17.5	0.0
100	256QAM	1	1	16.32			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.45	16.48	16.40	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.30	16.36	16.30	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.39	16.52	16.24	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.30	16.43	16.27	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.33	16.42	16.27	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.37	16.36	16.30	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.29	16.34	16.25	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.37	16.37	16.35	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.38	16.32	16.27	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.35	16.35	16.27	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.30	16.34	16.35	17.5	0.0

### Part27Q n78\_Ant 6 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.46				
100	PI2 BPSK	1	137	16.38			17.5	0.0
100	PI2 BPSK	1	211	16.28				
100	PI2 BPSK	135	0	16.43			17.5	0.0
100	PI2 BPSK	135	69	16.44			17.5	0.0
100	PI2 BPSK	135	138	16.37			17.5	0.0
100	PI2 BPSK	270	0	16.42				
100	QPSK	1	1	16.29				
100	QPSK	1	137	16.36			17.5	0.0
100	QPSK	1	211	16.28				
100	QPSK	135	0	16.41			17.5	0.0
100	QPSK	135	69	16.39			17.5	0.0
100	QPSK	135	138	16.37			17.5	0.0
100	QPSK	270	0	16.42				
100	16QAM	1	1	16.04			17.5	0.0
100	64QAM	1	1	16.06			17.5	0.0
100	256QAM	1	1	16.20			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.38	16.42	16.36	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.33	16.27	16.22	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.25	16.31	16.24	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.29	16.27	16.30	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.28	16.33	16.23	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.30	16.36	16.30	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.20	16.30	16.20	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.24	16.33	16.24	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.20	16.28	16.20	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.28	16.36	16.22	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.31	16.27	16.20	17.5	0.0

### Part27Q n78\_Ant 7 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.17				
100	PI2 BPSK	1	137	14.96			16.0	0.0
100	PI2 BPSK	1	211	14.82				
100	PI2 BPSK	135	0	15.08			16.0	0.0
100	PI2 BPSK	135	69	15.12			16.0	0.0
100	PI2 BPSK	135	138	14.94			16.0	0.0
100	PI2 BPSK	270	0	15.07			16.0	0.0
100	QPSK	1	1	15.12				
100	QPSK	1	137	15.02			16.0	0.0
100	QPSK	1	211	14.78				
100	QPSK	135	0	15.14			16.0	0.0
100	QPSK	135	69	15.02			16.0	0.0
100	QPSK	135	138	14.93			16.0	0.0
100	QPSK	270	0	15.04			16.0	0.0
100	16QAM	1	1	14.85			16.0	0.0
100	64QAM	1	1	14.82			16.0	0.0
100	256QAM	1	1	14.80			16.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.02	15.10	14.95	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	14.93	15.03	14.90	16.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	14.96	14.98	14.83	16.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	14.95	14.95	14.84	16.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	14.95	15.00	14.85	16.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	14.82	15.02	14.81	16.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	14.89	14.94	14.80	16.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	14.97	15.02	14.79	16.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	14.94	15.02	14.86	16.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	14.89	15.06	14.82	16.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	14.92	15.00	14.80	16.0	0.0



**Part270 n78\_Ant 7 DSI 0**

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)								
100	Pi2 BPSK	1	1	14.97			16.0	0.0
100	Pi2 BPSK	1	137	14.92			16.0	0.0
100	Pi2 BPSK	1	211	14.82			16.0	0.0
100	Pi2 BPSK	135	0	14.92			16.0	0.0
100	Pi2 BPSK	135	69	14.95			16.0	0.0
100	Pi2 BPSK	135	138	14.91			16.0	0.0
100	Pi2 BPSK	220	0	14.92			16.0	0.0
100	QPSK	1	1	14.82			16.0	0.0
100	QPSK	1	137	14.92			16.0	0.0
100	QPSK	1	211	14.76			16.0	0.0
100	QPSK	135	0	14.96			16.0	0.0
100	QPSK	135	69	14.92			16.0	0.0
100	QPSK	135	138	14.92			16.0	0.0
100	QPSK	220	0	14.93			16.0	0.0
100	16QAM	1	1	14.82			16.0	0.0
100	16QAM	1	137	14.91			16.0	0.0
100	256QAM	1	1	14.58			16.0	0.0
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	14.08	14.92	14.82	16.0	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	14.82	14.85	14.71	16.0	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	14.80	14.84	14.75	16.0	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	14.76	14.85	14.71	16.0	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	14.79	14.85	14.74	16.0	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	14.74	14.83	14.69	16.0	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	14.73	14.79	14.72	16.0	0.0
Channel								
Frequency (MHz)								
25	Pi2 BPSK	1	1	14.80	14.78	14.70	16.0	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	14.81	14.83	14.73	16.0	0.0
Channel								
Frequency (MHz)								
15	Pi2 BPSK	1	1	14.81	14.76	14.72	16.0	0.0
Channel								
Frequency (MHz)								
10	Pi2 BPSK	1	1	14.80	14.79	14.76	16.0	0.0

**Part27Q n78\_Ant 8 DSI 0**

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)								
100	Pi2 BPSK	1	1	23.29			24.5	0.0
100	Pi2 BPSK	1	137	23.04			24.5	0.0
100	Pi2 BPSK	1	211	22.26			24.5	0.0
100	Pi2 BPSK	135	0	22.71			24.5	0.0
100	Pi2 BPSK	135	69	23.04			24.5	0.0
100	Pi2 BPSK	135	138	22.85			24.5	0.0
100	Pi2 BPSK	220	0	22.95			24.5	0.0
100	QPSK	1	1	23.25			24.5	0.0
100	QPSK	1	137	23.06			24.5	0.0
100	QPSK	1	211	23.20			24.5	0.0
100	QPSK	135	0	23.17			24.5	0.0
100	QPSK	135	69	23.01			24.5	0.0
100	QPSK	135	138	23.14			24.5	0.0
100	QPSK	220	0	22.13			24.5	0.0
100	16QAM	1	1	22.02			24.5	0.0
100	16QAM	1	137	20.80			24.5	0.0
100	256QAM	1	1	19.16			22.5	2.0
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	23.22	23.24	23.23	24.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	23.09	23.14	20.83	24.5	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	23.15	23.14	23.11	24.5	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	23.09	23.08	23.08	24.5	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	23.13	23.14	23.13	24.5	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	23.11	23.10	23.08	24.5	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	23.10	23.16	23.16	24.5	0.0
Channel								
Frequency (MHz)								
25	Pi2 BPSK	1	1	23.11	23.11	23.16	24.5	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	23.16	23.13	23.15	24.5	0.0
Channel								
Frequency (MHz)								
15	Pi2 BPSK	1	1	23.06	23.17	23.13	24.5	0.0
Channel								
Frequency (MHz)								
10	Pi2 BPSK	1	1	23.16	23.09	23.10	24.5	0.0

**Part270 n78\_Ant 8 DSI 0**

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)								
100	Pi2 BPSK	1	1	23.19			24.5	0.0
100	Pi2 BPSK	1	137	22.93			24.5	0.0
100	Pi2 BPSK	1	211	22.15			24.5	0.0
100	Pi2 BPSK	135	0	22.58			24.5	0.0
100	Pi2 BPSK	135	69	23.03			24.5	0.0
100	Pi2 BPSK	135	138	22.84			24.5	0.0
100	Pi2 BPSK	220	0	22.81			24.5	0.0
100	QPSK	1	1	23.09			24.5	0.0
100	QPSK	1	137	22.96			24.5	0.0
100	QPSK	1	211	23.14			24.5	0.0
100	QPSK	135	0	23.13			24.5	0.0
100	QPSK	135	69	23.05			24.5	0.0
100	QPSK	135	138	23.00			24.5	0.0
100	QPSK	220	0	22.03			24.5	0.0
100	16QAM	1	1	21.83			24.5	0.0
100	16QAM	1	137	20.41			24.5	0.0
100	256QAM	1	1	18.99			22.5	2.0
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	23.03	23.04	23.09	24.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	22.94	22.88	22.97	24.5	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	22.94	22.97	23.04	24.5	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	22.97	22.89	23.02	24.5	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	22.99	22.93	23.01	24.5	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	22.91	22.92	22.93	24.5	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	22.89	22.89	22.96	24.5	0.0
Channel								
Frequency (MHz)								
25	Pi2 BPSK	1	1	22.90	22.86	22.97	24.5	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	22.87	22.96	23.04	24.5	0.0
Channel								
Frequency (MHz)								
15	Pi2 BPSK	1	1	22.94	22.94	23.00	24.5	0.0
Channel								
Frequency (MHz)								
10	Pi2 BPSK	1	1	22.95	22.93	23.00	24.5	0.0



For DFT-15

n5_Ant 0 DSI 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									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.73	24.76	24.74	25.2	0.0	
20	PI2 BPSK	1	53	24.72	24.75	24.73			
20	PI2 BPSK	1	104	24.67	24.67	24.62			
20	PI2 BPSK	50	0	23.95	24.07	23.98	25.2	0.0	
20	PI2 BPSK	50	28	24.45	24.50	24.53	25.2	0.0	
20	PI2 BPSK	50	56	23.92	24.01	23.86	25.2	0.0	
20	PI2 BPSK	100	0	23.92	24.07	23.98			
20	QPSK	1	1	24.53	24.58	24.50	25.2	0.0	
20	QPSK	1	53	24.43	24.53	24.42			
20	QPSK	1	104	24.38	24.51	24.40			
20	QPSK	50	0	23.48	23.56	23.51	24.7	0.5	
20	QPSK	50	28	24.44	24.58	24.49	25.2	0.0	
20	QPSK	50	56	23.89	24.04	23.95	24.7	0.5	
20	QPSK	100	0	23.92	24.07	23.92			
20	16QAM	1	1	23.81	23.97	23.86	24.7	0.5	
20	64QAM	1	1	22.43	22.55	22.39	23.2	2.0	
20	256QAM	1	1	20.93	21.03	20.92	21.2	4.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.52	24.57	24.45	25.2	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.50	24.60	24.44	25.2	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	24.52	24.58	24.48	25.2	0.0	

n5_Ant 1 DSI 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									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.04	22.12	22.05	22.7	0.0	
20	PI2 BPSK	1	53	22.02	22.08	22.01			
20	PI2 BPSK	1	104	21.92	21.98	21.95			
20	PI2 BPSK	50	0	21.83	21.90	21.85	22.7	0.0	
20	PI2 BPSK	50	28	21.91	21.95	21.93	22.7	0.0	
20	PI2 BPSK	50	56	21.81	21.84	21.82	22.7	0.0	
20	PI2 BPSK	100	0	21.82	21.85	21.83			
20	QPSK	1	1	21.91	21.97	21.93	22.7	0.0	
20	QPSK	1	53	21.86	22.04	22.04			
20	QPSK	1	104	21.82	21.92	21.85			
20	QPSK	50	0	21.78	21.84	21.74	22.7	0.0	
20	QPSK	50	28	21.77	21.93	21.91	22.7	0.0	
20	QPSK	50	56	21.69	21.82	21.80	22.7	0.0	
20	QPSK	100	0	21.67	21.81	21.71			
20	16QAM	1	1	21.48	21.64	21.58	22.7	0.5	
20	64QAM	1	1	22.11	22.08	22.09	22.7	0.0	
20	256QAM	1	1	20.81	20.72	20.68	21.2	1.5	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	21.80	22.07	21.82	22.7	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	21.84	22.00	21.97	22.7	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	21.83	22.03	22.00	22.7	0.0	

n7_Ant 0 DSI 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									
Frequency (MHz)									
50	PI2 BPSK	1	1	21.38	21.41	21.38	23.0	0.0	
50	PI2 BPSK	1	135	21.28	21.28	21.21			
50	PI2 BPSK	1	268	21.28	21.24	21.21			
50	PI2 BPSK	135	0	20.78	20.83	20.67	23.0	0.0	
50	PI2 BPSK	135	68	21.38	21.38	21.21	23.0	0.0	
50	PI2 BPSK	135	135	20.44	20.43	20.42	23.0	0.0	
50	PI2 BPSK	270	0	20.74	20.75	20.66			
50	QPSK	1	1	21.37	21.40	21.36	23.0	0.0	
50	QPSK	1	135	21.28	21.34	21.23			
50	QPSK	1	268	21.04	21.11	20.86			
50	QPSK	135	0	20.08	20.21	20.15	23.0	0.0	
50	QPSK	135	68	21.13	21.21	21.12	23.0	0.0	
50	QPSK	135	135	20.83	20.83	20.79	23.0	0.0	
50	QPSK	270	0	21.02	21.13	21.06			
50	16QAM	1	1	21.21	21.28	21.15	23.0	0.0	
50	64QAM	1	1	19.68	19.78	19.71	21.5	1.5	
50	256QAM	1	1	18.60	18.63	18.56	19.5	3.5	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	21.31	21.32	21.27	23.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	21.36	21.31	21.31	23.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	20.40	20.56	20.40	23.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.37	21.15	21.30	23.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	20.98	21.11	20.97	23.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	21.00	21.15	21.02	23.0	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	20.96	21.00	20.97	23.0	0.0	



n7_Ant 2 DSI 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									
Frequency (MHz)				505000	507000	509000			
Frequency (MHz)				2545	2535	2545			
50	PI2 BPSK	1	1	19.80	19.89	19.82			
50	PI2 BPSK	1	135	19.71	19.84	19.76	20.5	0.0	
50	PI2 BPSK	1	269	19.62	19.71	19.66			
50	PI2 BPSK	135	0	19.70	19.80	19.82	20.5	0.0	
50	PI2 BPSK	135	68	19.78	19.88	19.86	20.5	0.0	
50	PI2 BPSK	135	135	19.69	19.84	19.81	20.5	0.0	
50	PI2 BPSK	220	0	19.67	19.80	19.76			
50	QPSK	1	1	19.83	19.73	19.84			
50	QPSK	1	135	19.68	19.77	19.69	20.5	0.0	
50	QPSK	1	269	19.40	19.61	19.57			
50	QPSK	135	0	19.69	19.81	19.77	20.5	0.0	
50	QPSK	135	68	19.56	19.74	19.65	20.5	0.0	
50	QPSK	135	135	19.67	19.86	19.85	20.5	0.0	
50	QPSK	220	0	19.63	19.78	19.71			
50	16QAM	1	1	19.30	19.46	19.43	20.5	0.0	
50	16QAM	1	1	19.43	19.53	19.42	20.5	0.0	
50	16QAM	1	1	18.95	19.12	19.06	20.5	0.0	
Channel									
Frequency (MHz)				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	19.64	19.74	19.68	21.5	0.0	
Channel									
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI2 BPSK	1	1	19.78	19.75	19.76	20.5	0.0	
Channel									
Frequency (MHz)				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	PI2 BPSK	1	1	19.68	19.76	19.71	20.5	0.0	
Channel									
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	19.84	19.83	19.74	20.5	0.0	
Channel									
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI2 BPSK	1	1	19.74	19.79	19.70	20.5	0.0	
Channel									
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI2 BPSK	1	1	19.73	19.81	19.77	20.5	0.0	
Channel									
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI2 BPSK	1	1	19.73	19.77	19.69	20.5	0.0	

n7_Ant 3 DSI 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									
Frequency (MHz)				506000	507000	508000			
Frequency (MHz)				2555	2535	2545			
50	PI2 BPSK	1	1	20.13	20.20	20.05			
50	PI2 BPSK	1	135	20.04	20.14	20.02	21.2	0.0	
50	PI2 BPSK	1	269	20.06	20.13	20.04			
50	PI2 BPSK	135	0	20.06	20.11	20.01	21.2	0.0	
50	PI2 BPSK	135	68	20.09	20.12	20.03	21.2	0.0	
50	PI2 BPSK	135	135	19.96	20.01	19.92	21.2	0.0	
50	PI2 BPSK	220	0	20.03	20.16	20.01			
50	QPSK	1	1	19.82	19.92	19.75			
50	QPSK	1	135	19.97	20.04	19.93	21.2	0.0	
50	QPSK	1	269	20.04	20.06	19.92			
50	QPSK	135	0	20.06	20.06	19.91	21.2	0.0	
50	QPSK	135	68	19.97	19.97	19.79	21.2	0.0	
50	QPSK	135	135	20.10	20.16	20.04	21.2	0.0	
50	QPSK	220	0	20.07	20.09	19.97			
50	16QAM	1	1	20.00	20.02	19.98	21.2	0.0	
50	16QAM	1	1	19.99	20.00	19.88	21.2	0.0	
50	16QAM	1	1	20.01	20.03	20.00	21.2	0.0	
Channel									
Frequency (MHz)				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	20.03	20.06	19.92	21.2	0.0	
Channel									
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI2 BPSK	1	1	20.03	20.13	19.98	21.2	0.0	
Channel									
Frequency (MHz)				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	PI2 BPSK	1	1	20.06	20.08	19.88	21.2	0.0	
Channel									
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	20.06	20.10	19.89	21.2	0.0	
Channel									
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI2 BPSK	1	1	20.03	20.10	19.91	21.2	0.0	
Channel									
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI2 BPSK	1	1	19.98	20.10	19.91	21.2	0.0	
Channel									
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI2 BPSK	1	1	20.03	20.13	19.98	21.2	0.0	

n7_Ant 5 DSI 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									
Frequency (MHz)				506000	507000	508000			
Frequency (MHz)				2555	2535	2545			
50	PI2 BPSK	1	1	18.13	18.20	18.16			
50	PI2 BPSK	1	135	18.07	18.14	18.12	19.5	0.0	
50	PI2 BPSK	1	269	18.11	18.16	18.15			
50	PI2 BPSK	135	0	17.95	18.02	18.01	19.5	0.0	
50	PI2 BPSK	135	68	17.98	18.03	18.02	19.5	0.0	
50	PI2 BPSK	135	135	17.81	17.84	17.83	19.5	0.0	
50	PI2 BPSK	220	0	17.97	18.00	17.98			
50	QPSK	1	1	17.87	17.99	17.87			
50	QPSK	1	135	18.03	18.18	18.10	19.5	0.0	
50	QPSK	1	269	17.95	18.12	18.05			
50	QPSK	135	0	17.81	18.02	17.94	19.5	0.0	
50	QPSK	135	68	17.90	18.05	18.00	19.5	0.0	
50	QPSK	135	135	17.94	18.15	18.13	19.5	0.0	
50	QPSK	220	0	18.01	18.11	18.07			
50	16QAM	1	1	17.71	17.88	17.84	19.5	0.0	
50	16QAM	1	1	17.58	17.71	17.60	19.5	0.0	
50	16QAM	1	1	17.82	17.88	17.85	19.5	0.0	
Channel									
Frequency (MHz)				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2520	2535	2550			
40	PI2 BPSK	1	1	17.03	18.08	18.03	19.5	0.0	
Channel									
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI2 BPSK	1	1	17.94	18.11	18.03	19.5	0.0	
Channel									
Frequency (MHz)				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	PI2 BPSK	1	1	17.99	18.06	18.01	19.5	0.0	
Channel									
Frequency (MHz)				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI2 BPSK	1	1	17.94	18.13	18.04	19.5	0.0	
Channel									
Frequency (MHz)				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI2 BPSK	1	1	17.92	18.11	18.01	19.5	0.0	
Channel									
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI2 BPSK	1	1	17.91	18.14	17.98	19.5	0.0	
Channel									
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI2 BPSK	1	1	17.91	18.05	18.02	19.5	0.0	



For DFT-30

n38_Ant 0 DSI 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									
Frequency (MHz)									
40	PI2 BPSK	1	1	20.75	20.76	20.74			
40	PI2 BPSK	1	33	20.72	20.73	20.68	22.0	0.0	
40	PI2 BPSK	1	104	20.54	20.56	20.52			
40	PI2 BPSK	50	0	20.62	20.66	20.57	22.0	0.0	
40	PI2 BPSK	50	28	20.63	20.70	20.59	22.0	0.0	
40	PI2 BPSK	50	56	20.52	20.53	20.47	22.0	0.0	
40	PI2 BPSK	100	0	20.58	20.61	20.52			
40	QPSK	1	1	20.62	20.72	20.63			
40	QPSK	1	53	20.54	20.58	20.37	22.0	0.0	
40	QPSK	1	104	20.44	20.52	20.40			
40	QPSK	50	0	20.51	20.56	20.44			
40	QPSK	50	28	20.59	20.61	20.40	22.0	0.0	
40	QPSK	50	56	20.46	20.48	20.27			
40	QPSK	100	0	20.54	20.56	20.38	22.0	0.0	
40	16QAM	1	1	20.41	20.47	20.33	22.0	0.0	
40	64QAM	1	1	19.97	20.06	19.95	21.5	0.5	
40	256QAM	1	1	18.64	18.76	18.64	19.3	2.3	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	20.59	20.62	20.65	22.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	20.66	20.68	20.59	22.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	20.69	20.68	20.62	22.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	20.66	20.63	20.62	22.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	20.60	20.70	20.68	22.0	0.0	

n38_Ant 2 DSI 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									
Frequency (MHz)									
40	PI2 BPSK	1	1	19.90	19.92	19.91			
40	PI2 BPSK	1	53	19.85	19.87	19.84	20.5	0.0	
40	PI2 BPSK	1	104	19.76	19.76	19.72			
40	PI2 BPSK	50	0	19.68	19.72	19.71	20.5	0.0	
40	PI2 BPSK	50	28	19.70	19.79	19.73	20.5	0.0	
40	PI2 BPSK	50	56	19.66	19.66	19.63	20.5	0.0	
40	PI2 BPSK	100	0	19.67	19.71	19.72			
40	QPSK	1	1	19.73	19.88	19.78			
40	QPSK	1	53	19.66	19.82	19.74	20.5	0.0	
40	QPSK	1	104	19.56	19.68	19.68			
40	QPSK	50	0	19.49	19.62	19.56			
40	QPSK	50	28	19.56	19.71	19.65	20.5	0.0	
40	QPSK	50	56	19.44	19.56	19.59			
40	QPSK	100	0	19.58	19.69	19.65	20.5	0.0	
40	16QAM	1	1	19.33	19.54	19.52	20.5	0.0	
40	64QAM	1	1	19.48	19.62	19.54	20.5	0.0	
40	256QAM	1	1	19.08	19.74	19.72	20.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	19.81	19.81	19.76	20.5	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	19.76	19.86	19.78	20.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	19.82	19.76	19.76	20.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	19.76	19.67	19.63	20.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	19.84	19.76	19.75	20.5	0.0	

n38_Ant 3 DSI 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									
Frequency (MHz)									
40	PI2 BPSK	1	1	20.21	20.30	20.28			
40	PI2 BPSK	1	53	20.18	20.26	20.21	20.7	0.0	
40	PI2 BPSK	1	104	20.12	20.27	20.22			
40	PI2 BPSK	50	0	20.17	20.21	20.18	20.7	0.0	
40	PI2 BPSK	50	28	20.18	20.24	20.21	20.7	0.0	
40	PI2 BPSK	50	56	20.16	20.15	20.14	20.7	0.0	
40	PI2 BPSK	100	0	20.13	20.18	20.16			
40	QPSK	1	1	20.03	20.24	20.17			
40	QPSK	1	53	20.12	20.27	20.20	20.7	0.0	
40	QPSK	1	104	20.08	20.25	20.17			
40	QPSK	50	0	19.97	20.16	20.08			
40	QPSK	50	28	20.13	20.27	20.18	20.7	0.0	
40	QPSK	50	56	20.03	20.19	20.18			
40	QPSK	100	0	19.98	20.18	20.16	20.7	0.0	
40	16QAM	1	1	19.95	20.11	20.07	20.7	0.0	
40	64QAM	1	1	19.91	20.06	20.01	20.7	0.0	
40	256QAM	1	1	20.02	20.21	20.20	20.7	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	20.09	20.25	20.20	20.7	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	20.05	20.24	20.21	20.7	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	20.11	20.22	20.14	20.7	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	20.07	20.20	20.19	20.7	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	20.13	20.16	20.14	20.7	0.0	



n38_Ant 5 DSI 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									
Frequency (MHz)									
40	PI2 BPSK	1	1	18.58	18.68	18.67			
40	PI2 BPSK	1	33	18.48	18.56	18.52	19.5	0.0	
40	PI2 BPSK	1	104	18.45	18.51	18.49			
40	PI2 BPSK	50	0	18.32	18.40	18.35	19.5	0.0	
40	PI2 BPSK	50	28	18.36	18.52	18.59			
40	PI2 BPSK	50	56	18.42	18.49	18.45	19.5	0.0	
40	PI2 BPSK	100	0	18.51	18.54	18.53			
40	QPSK	1	1	18.39	18.53	18.48			
40	QPSK	1	33	18.40	18.56	18.56	19.5	0.0	
40	QPSK	1	104	18.42	18.53	18.42			
40	QPSK	50	0	18.30	18.45	18.38			
40	QPSK	50	28	18.41	18.52	18.48	19.5	0.0	
40	QPSK	50	56	18.29	18.46	18.45			
40	QPSK	100	0	18.40	18.50	18.43	19.5	0.0	
40	16QAM	1	1	18.32	18.47	18.43	19.5	0.0	
40	64QAM	1	1	18.13	18.28	18.21	19.5	0.0	
40	256QAM	1	1	18.11	18.28	18.16	19.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	18.51	18.58	18.52	19.5	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	18.50	18.55	18.51	19.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	18.52	18.61	18.53	19.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	18.50	18.54	18.52	19.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	18.48	18.53	18.52	19.5	0.0	

n41_Ant 0 DSI 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									
Frequency (MHz)									
100	PI2 BPSK	1	1	20.53	20.69	20.65			
100	PI2 BPSK	1	137	20.31	20.48	20.34	21.5	0.0	
100	PI2 BPSK	1	211	20.48	20.52	20.50			
100	PI2 BPSK	135	0	20.50	20.67	20.53	21.5	0.0	
100	PI2 BPSK	135	69	20.30	20.49	20.38	21.5	0.0	
100	PI2 BPSK	135	138	20.47	20.42	20.42	21.5	0.0	
100	PI2 BPSK	270	0	20.42	20.58	20.48			
100	QPSK	1	1	20.45	20.58	20.50			
100	QPSK	1	137	20.40	20.53	20.48	21.5	0.0	
100	QPSK	1	211	19.98	20.12	20.12			
100	QPSK	135	0	20.43	20.60	20.54			
100	QPSK	135	69	20.43	20.57	20.57	21.5	0.0	
100	QPSK	135	138	20.23	20.37	20.29			
100	QPSK	270	0	20.31	20.48	20.45	21.5	0.0	
100	16QAM	1	1	20.16	20.34	20.25	21.5	0.0	
100	64QAM	1	1	19.84	19.81	19.70	21.5	0.0	
100	256QAM	1	1	19.38	19.48	19.48	20.0	1.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	20.39	20.56	20.56	21.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	20.38	20.61	20.58	21.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	20.41	20.57	20.49	21.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	20.39	20.60	20.56	21.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	20.43	20.62	20.60	21.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	20.45	20.62	20.60	21.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	20.37	20.59	20.50	21.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	20.43	20.63	20.60	21.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	20.39	20.59	20.50	21.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	20.40	20.60	20.58	21.5	0.0	

n41_Ant 2 DSI 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									
Frequency (MHz)									
100	PI2 BPSK	1	1	19.41	19.53	19.43			
100	PI2 BPSK	1	137	19.40	19.46	19.41	20.0	0.0	
100	PI2 BPSK	1	211	19.38	19.45	19.40			
100	PI2 BPSK	135	0	19.41	19.51	19.45	20.0	0.0	
100	PI2 BPSK	135	69	19.43	19.52	19.46	20.0	0.0	
100	PI2 BPSK	135	138	19.41	19.48	19.43	20.0	0.0	
100	PI2 BPSK	270	0	19.48	19.50	19.45			
100	QPSK	1	1	19.30	19.51	19.48			
100	QPSK	1	137	19.26	19.38	19.38	20.0	0.0	
100	QPSK	1	211	19.08	19.18	19.18			
100	QPSK	135	0	19.25	19.46	19.41			
100	QPSK	135	69	19.26	19.42	19.33	20.0	0.0	
100	QPSK	135	138	19.09	19.25	19.23			
100	QPSK	270	0	19.23	19.43	19.43	20.0	0.0	
100	16QAM	1	1	19.13	19.34	19.33	20.0	0.0	
100	64QAM	1	1	19.12	19.33	19.33	20.0	0.0	
100	256QAM	1	1	19.04	19.25	19.17	20.0	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	19.35	19.39	19.35	20.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	19.31	19.37	19.32	20.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	19.34	19.39	19.38	20.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	19.27	19.41	19.34	20.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	19.25	19.42	19.38	20.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	19.33	19.44	19.37	20.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	19.30	19.47	19.33	20.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	19.35	19.40	19.38	20.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	19.30	19.42	19.38	20.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	19.36	19.38	19.35	20.0	0.0	



### n41\_Ant 3 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.98	20.03	19.93		
100	PI2 BPSK	1	137	19.97	20.01	19.92	20.2	0.0
100	PI2 BPSK	1	211	19.95	19.91	19.90		
100	PI2 BPSK	135	0	19.71	19.88	19.68	20.2	0.0
100	PI2 BPSK	135	69	19.95	19.98	19.91	20.2	0.0
100	PI2 BPSK	135	138	19.82	19.85	19.80	20.2	0.0
100	PI2 BPSK	210	0	19.85	19.87	19.83		
100	QPSK	1	1	19.75	19.82	19.71		
100	QPSK	1	137	19.90	20.01	19.81	20.2	0.0
100	QPSK	1	211	19.81	19.83	19.80		
100	QPSK	135	0	19.81	19.86	19.65	20.2	0.0
100	QPSK	135	69	19.93	20.02	19.91	20.2	0.0
100	QPSK	135	138	19.76	19.83	19.63	20.2	0.0
100	QPSK	210	0	19.80	19.87	19.71	20.2	0.0
100	16QAM	1	1	19.54	19.59	19.49	20.2	0.0
100	64QAM	1	1	19.60	19.62	19.47	20.2	0.0
100	256QAM	1	1	19.74	19.78	19.63	20.2	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	19.88	19.92	19.77	20.2	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	19.87	19.87	19.79	20.2	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	19.82	19.88	19.62	20.2	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	19.84	19.89	19.60	20.2	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	19.89	19.94	19.63	20.2	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	19.81	19.90	19.55	20.2	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	19.83	19.90	19.67	20.2	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	19.86	19.93	19.67	20.2	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	19.81	19.93	19.80	20.2	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	19.82	19.91	19.81	20.2	0.0

### n41\_Ant 5 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.68	18.70	18.74		
100	PI2 BPSK	1	137	18.67	18.77	18.73	20.0	0.0
100	PI2 BPSK	1	211	18.62	18.70	18.68		
100	PI2 BPSK	135	0	18.61	18.71	18.70	20.0	0.0
100	PI2 BPSK	135	69	18.65	18.78	18.74	20.0	0.0
100	PI2 BPSK	135	138	18.52	18.64	18.50	20.0	0.0
100	PI2 BPSK	210	0	18.57	18.68	18.62		
100	QPSK	1	1	18.43	18.62	18.59		
100	QPSK	1	137	18.55	18.72	18.63	20.0	0.0
100	QPSK	1	211	18.39	18.54	18.50		
100	QPSK	135	0	18.58	18.71	18.65	20.0	0.0
100	QPSK	135	69	18.52	18.72	18.64	20.0	0.0
100	QPSK	135	138	18.46	18.64	18.52	20.0	0.0
100	QPSK	210	0	18.50	18.72	18.72	20.0	0.0
100	16QAM	1	1	18.40	18.58	18.47	20.0	0.0
100	64QAM	1	1	18.20	18.32	18.29	20.0	0.0
100	256QAM	1	1	18.08	18.28	18.28	20.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	18.57	18.74	18.62	20.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	18.57	18.66	18.66	20.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	18.53	18.73	18.55	20.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.60	18.70	18.61	20.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	18.56	18.71	18.66	20.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	18.53	18.71	18.60	20.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	18.63	18.65	18.60	20.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.60	18.64	18.65	20.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	18.63	18.69	18.67	20.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	18.57	18.68	18.62	20.0	0.0

### Par27Q n77\_Ant 4 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	19.07	19.07	19.06		
100	PI2 BPSK	1	137	19.06	19.06	19.06	19.2	0.0
100	PI2 BPSK	1	211	19.02	19.02	19.02		
100	PI2 BPSK	135	0	19.01	19.01	19.01	19.2	0.0
100	PI2 BPSK	135	69	19.03	19.03	19.03	19.2	0.0
100	PI2 BPSK	135	138	18.98	18.98	18.98	19.2	0.0
100	PI2 BPSK	210	0	18.99	18.99	18.99	19.2	0.0
100	QPSK	1	1	18.84	18.84	18.84		
100	QPSK	1	137	19.05	19.05	19.05	19.2	0.0
100	QPSK	1	211	18.77	18.77	18.77		
100	QPSK	135	0	19.01	19.01	19.01	19.2	0.0
100	QPSK	135	69	19.02	19.02	19.02	19.2	0.0
100	QPSK	135	138	18.86	18.86	18.86	19.2	0.0
100	QPSK	210	0	19.02	19.02	19.02	19.2	0.0
100	16QAM	1	1	18.72	18.72	18.72	19.2	0.0
100	64QAM	1	1	18.75	18.75	18.75	19.2	0.0
100	256QAM	1	1	18.74	18.74	18.74	19.2	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	19.02	19.02	18.99	19.2	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	18.84	18.93	18.81	19.2	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	18.78	18.86	18.81	19.2	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.83	18.88	18.77	19.2	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	18.79	18.88	18.74	19.2	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	18.87	18.97	18.81	19.2	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	18.87	18.97	18.81	19.2	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	18.85	18.91	18.82	19.2	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.78	18.93	18.83	19.2	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	18.85	18.87	18.84	19.2	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	18.87	18.88	18.76	19.2	0.0



### Par270 n77\_Ant 4 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.80	18.92	18.86		
100	PI2 BPSK	1	137	18.78	18.89	18.80	19.2	0.0
100	PI2 BPSK	1	211	18.72	18.82	18.78		
100	PI2 BPSK	135	0	18.70	18.78	18.77	19.2	0.0
100	PI2 BPSK	135	69	18.71	18.85	18.79	19.2	0.0
100	PI2 BPSK	135	138	18.66	18.82	18.71	19.2	0.0
100	QPSK	1	1	18.53	18.74	18.70		
100	QPSK	1	137	18.70	18.86	18.82	19.2	0.0
100	QPSK	1	211	18.55	18.70	18.70		
100	QPSK	135	0	18.64	18.75	18.67	19.2	0.0
100	QPSK	135	69	18.68	18.86	18.86	19.2	0.0
100	QPSK	135	138	18.59	18.75	18.75	19.2	0.0
100	QPSK	210	0	18.62	18.84	18.75	19.2	0.0
100	16QAM	1	1	18.37	18.53	18.48	19.2	0.0
100	64QAM	1	1	18.38	18.58	18.51	19.2	0.0
100	256QAM	1	1	18.41	18.62	18.48	19.2	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	18.68	18.87	18.76	19.2	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	18.70	18.79	18.69	19.2	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	18.70	18.82	18.76	19.2	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.67	18.80	18.78	19.2	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	18.70	18.86	18.72	19.2	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	18.54	18.70	18.70	19.2	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	18.82	18.83	18.74	19.2	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	18.88	18.78	18.71	19.2	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.67	18.82	18.77	19.2	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	18.69	18.83	18.87	19.2	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	18.72	18.79	18.79	19.2	0.0

### Par27Q n77\_Ant 6 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1		18.73			
100	PI2 BPSK	1	137		18.71		18.0	0.0
100	PI2 BPSK	1	211		18.47			
100	PI2 BPSK	135	0		18.62		18.0	0.0
100	PI2 BPSK	135	69		18.69		18.0	0.0
100	PI2 BPSK	135	138		18.56		18.0	0.0
100	PI2 BPSK	210	0		18.67		18.0	0.0
100	QPSK	1	1		18.63			
100	QPSK	1	137		18.71		18.0	0.0
100	QPSK	1	211		18.47			
100	QPSK	135	0		18.58		18.0	0.0
100	QPSK	135	69		18.66		18.0	0.0
100	QPSK	135	138		18.58		18.0	0.0
100	QPSK	210	0		18.64		18.0	0.0
100	16QAM	1	1		18.38		18.0	0.0
100	64QAM	1	1		18.42		18.0	0.0
100	256QAM	1	1		18.52		18.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	18.68	18.72	18.63	18.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	18.63	18.67	18.51	18.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	18.58	18.66	18.54	18.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.55	18.58	18.48	18.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	18.62	18.65	18.52	18.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	18.63	18.65	18.51	18.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	18.83	18.86	18.84	18.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	18.82	18.60	18.67	18.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.53	18.56	18.57	18.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	18.56	18.63	18.51	18.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	18.55	18.57	18.54	18.0	0.0

### Par270 n77\_Ant 6 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.55	18.63	18.60		
100	PI2 BPSK	1	137	18.45	18.55	18.49	18.0	0.0
100	PI2 BPSK	1	211	18.40	18.48	18.42		
100	PI2 BPSK	135	0	18.40	18.56	18.47	18.0	0.0
100	PI2 BPSK	135	69	18.52	18.62	18.58	18.0	0.0
100	PI2 BPSK	135	138	18.45	18.52	18.51	18.0	0.0
100	PI2 BPSK	210	0	18.45	18.61	18.51	18.0	0.0
100	QPSK	1	1	18.38	18.48	18.41		
100	QPSK	1	137	18.37	18.53	18.52	18.0	0.0
100	QPSK	1	211	18.28	18.41	18.40		
100	QPSK	135	0	18.39	18.55	18.52	18.0	0.0
100	QPSK	135	69	18.42	18.58	18.49	18.0	0.0
100	QPSK	135	138	18.36	18.54	18.52	18.0	0.0
100	QPSK	210	0	18.40	18.58	18.58	18.0	0.0
100	16QAM	1	1	18.11	18.27	18.25	18.0	0.0
100	64QAM	1	1	18.19	18.31	18.31	18.0	0.0
100	256QAM	1	1	18.28	18.30	18.27	18.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	18.48	18.47	18.52	18.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	18.42	18.56	18.55	18.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	18.42	18.56	18.49	18.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.39	18.52	18.50	18.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	18.47	18.50	18.52	18.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	18.44	18.57	18.52	18.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	18.44	18.51	18.51	18.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	18.44	18.51	18.51	18.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.45	18.51	18.49	18.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	18.44	18.50	18.51	18.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	18.39	18.49	18.44	18.0	0.0



### Par27Q n77\_Ant 7 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.30				
100	PI2 BPSK	1	137	16.37			17.5	0.0
100	PI2 BPSK	1	211	16.28				
100	PI2 BPSK	135	0	16.31			17.5	0.0
100	PI2 BPSK	135	69	16.38			17.5	0.0
100	PI2 BPSK	135	138	16.25			17.5	0.0
100	PI2 BPSK	270	0	16.33				
100	QPSK	1	1	16.32				
100	QPSK	1	137	16.38			17.5	0.0
100	QPSK	1	211	16.17				
100	QPSK	135	0	16.36				
100	QPSK	135	69	16.34			17.5	0.0
100	QPSK	135	138	16.22			17.5	0.0
100	QPSK	270	0	16.23				
100	16QAM	1	1	16.11			17.5	0.0
100	64QAM	1	1	16.18			17.5	0.0
100	256QAM	1	1	16.10			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.28	16.32	16.27	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.16	16.21	16.19	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.13	16.17	16.16	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.20	16.24	16.12	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.22	16.25	16.22	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.13	16.16	16.12	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.18	16.24	16.17	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.21	16.19	16.14	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.22	16.20	16.13	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.21	16.19	16.20	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.23	16.18	16.15	17.5	0.0

### Par27Q n77\_Ant 7 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.48	16.57	16.38		
100	PI2 BPSK	1	137	16.44	16.51	16.32	17.5	0.0
100	PI2 BPSK	1	211	16.20	16.23	16.12		
100	PI2 BPSK	135	0	16.22	16.27	16.10	17.5	0.0
100	PI2 BPSK	135	69	16.25	16.28	16.12	17.5	0.0
100	PI2 BPSK	135	138	16.12	16.25	16.10	17.5	0.0
100	PI2 BPSK	270	0	16.18	16.23	16.17		
100	QPSK	1	1	16.12	16.22	16.08		
100	QPSK	1	137	16.05	16.16	15.98	17.5	0.0
100	QPSK	1	211	16.03	16.08	15.84		
100	QPSK	135	0	16.23	16.28	16.06		
100	QPSK	135	69	16.12	16.22	16.10	17.5	0.0
100	QPSK	135	138	16.03	16.08	15.98	17.5	0.0
100	QPSK	270	0	16.21	16.21	16.09	17.5	0.0
100	16QAM	1	1	15.90	15.99	15.81	17.5	0.0
100	64QAM	1	1	16.01	16.05	15.93	17.5	0.0
100	256QAM	1	1	16.16	16.18	16.08	17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.30	16.46	16.30	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.42	16.48	16.26	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.42	16.42	16.23	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.34	16.42	16.22	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.43	16.51	16.27	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.36	16.44	16.30	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.42	16.46	16.20	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.37	16.45	16.27	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.35	16.51	16.29	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.35	16.43	16.19	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.38	16.48	16.20	17.5	0.0

### Par27Q n77\_Ant 8 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.47				
100	PI2 BPSK	1	137	15.42			16.2	0.0
100	PI2 BPSK	1	211	15.14				
100	PI2 BPSK	135	0	15.42			16.2	0.0
100	PI2 BPSK	135	69	15.43			16.2	0.0
100	PI2 BPSK	135	138	15.29			16.2	0.0
100	PI2 BPSK	270	0	15.21				
100	QPSK	1	1	15.37				
100	QPSK	1	137	15.45			16.2	0.0
100	QPSK	1	211	15.14				
100	QPSK	135	0	15.42				
100	QPSK	135	69	15.37			16.2	0.0
100	QPSK	135	138	15.22			16.2	0.0
100	QPSK	270	0	15.24				
100	16QAM	1	1	15.17			16.2	0.0
100	64QAM	1	1	15.23			16.2	0.0
100	256QAM	1	1	15.20			16.2	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.40	15.43	15.20	16.2	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.33	15.20	15.34	16.2	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	15.28	15.32	15.31	16.2	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	15.31	15.36	15.31	16.2	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	15.25	15.38	15.31	16.2	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.32	15.32	15.32	16.2	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	15.33	15.34	15.27	16.2	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	15.27	15.36	15.28	16.2	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	15.34	15.30	15.28	16.2	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	15.32	15.38	15.34	16.2	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	15.25	15.38	15.34	16.2	0.0



### Par270 n77\_Ant 8 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.12	15.21	15.18		
100	PI2 BPSK	1	137	15.05	15.13	15.10	16.2	0.0
100	PI2 BPSK	1	211	15.01	15.12	15.08		
100	PI2 BPSK	135	0	15.00	15.08	15.02	16.2	0.0
100	PI2 BPSK	135	69	15.08	15.13	15.10	16.2	0.0
100	PI2 BPSK	135	138	14.96	15.10	15.00	16.2	0.0
100	PI2 BPSK	270	0	14.98	15.07	15.01		
100	QPSK	1	1	14.96	15.08	14.98		
100	QPSK	1	137	14.97	15.07	15.04	16.2	0.0
100	QPSK	1	211	14.82	14.98	14.88		
100	QPSK	135	0	14.93	15.08	15.08		
100	QPSK	135	69	14.99	15.16	15.10	16.2	0.0
100	QPSK	135	138	14.89	15.07	14.97	16.2	0.0
100	QPSK	270	0	14.93	15.14	15.09	16.2	0.0
100	16QAM	1	1	14.66	14.86	14.81	16.2	0.0
100	64QAM	1	1	14.69	14.89	14.79	16.2	0.0
100	256QAM	1	1	14.68	14.82	14.70	16.2	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.06	15.13	15.11	16.2	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.05	15.09	15.04	16.2	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	15.02	15.06	15.07	16.2	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	15.00	15.16	15.07	16.2	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	15.01	15.14	15.07	16.2	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.01	15.14	15.07	16.2	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	15.03	15.14	15.09	16.2	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	15.03	15.14	15.09	16.2	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	15.01	15.07	15.07	16.2	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	15.06	15.14	15.06	16.2	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	15.05	15.05	15.05	16.2	0.0

### Part27Q n78\_Ant 4 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.40				
100	PI2 BPSK	1	137	18.28			19.0	0.0
100	PI2 BPSK	1	211	18.13				
100	PI2 BPSK	135	0	18.32			19.0	0.0
100	PI2 BPSK	135	69	18.33			19.0	0.0
100	PI2 BPSK	135	138	18.26			19.0	0.0
100	PI2 BPSK	270	0	18.38				
100	QPSK	1	1	18.43				
100	QPSK	1	137	18.36			19.0	0.0
100	QPSK	1	211	18.24				
100	QPSK	135	0	18.43				
100	QPSK	135	69	18.36			19.0	0.0
100	QPSK	135	138	18.18			19.0	0.0
100	QPSK	270	0	18.34			19.0	0.0
100	16QAM	1	1	18.18			19.0	0.0
100	64QAM	1	1	18.22			19.0	0.0
100	256QAM	1	1	18.08			19.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	18.30	18.32	18.25	19.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	18.21	18.22	18.15	19.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	18.18	18.16	18.13	19.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.18	18.24	18.13	19.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	18.16	18.18	18.16	19.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	18.24	18.17	18.13	19.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	18.17	18.21	18.15	19.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	18.22	18.27	18.15	19.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	18.20	18.20	18.15	19.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	18.24	18.19	18.12	19.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	18.14	18.24	18.17	19.0	0.0

### Part27Q n78\_Ant 4 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	18.20				
100	PI2 BPSK	1	137	18.14			19.0	0.0
100	PI2 BPSK	1	211	18.13				
100	PI2 BPSK	135	0	18.15			19.0	0.0
100	PI2 BPSK	135	69	18.17			19.0	0.0
100	PI2 BPSK	135	138	18.18			19.0	0.0
100	PI2 BPSK	270	0	18.18				
100	QPSK	1	1	18.04				
100	QPSK	1	137	18.15			19.0	0.0
100	QPSK	1	211	18.09				
100	QPSK	135	0	18.15				
100	QPSK	135	69	18.09			19.0	0.0
100	QPSK	135	138	18.14			19.0	0.0
100	QPSK	270	0	18.12			19.0	0.0
100	16QAM	1	1	17.85			19.0	0.0
100	64QAM	1	1	17.83			19.0	0.0
100	256QAM	1	1	17.80			19.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	18.12	18.15	18.10	19.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	18.07	18.07	18.00	19.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	17.98	18.02	18.02	19.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	18.02	18.07	17.94	19.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	18.06	18.15	18.05	19.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	18.04	18.13	18.03	19.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	18.05	18.02	18.00	19.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	18.01	18.06	17.99	19.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	17.98	18.08	17.98	19.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	18.01	18.04	17.97	19.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	18.03	18.06	18.02	19.0	0.0



### Part27Q n78\_Ant 6 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.63				
100	PI2 BPSK	1	137	16.48			17.5	0.0
100	PI2 BPSK	1	211	16.28				
100	PI2 BPSK	135	0	16.52			17.5	0.0
100	PI2 BPSK	135	69	16.56			17.5	0.0
100	PI2 BPSK	135	138	16.43			17.5	0.0
100	PI2 BPSK	210	0	16.58				
100	QPSK	1	1	16.53				
100	QPSK	1	137	16.62			17.5	0.0
100	QPSK	1	211	16.28				
100	QPSK	135	0	16.30			17.5	0.0
100	QPSK	135	69	16.56			17.5	0.0
100	QPSK	135	138	16.47			17.5	0.0
100	QPSK	210	0	16.58				
100	16QAM	1	1	16.28			17.5	0.0
100	64QAM	1	1	16.33			17.5	0.0
100	256QAM	1	1	16.22			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.80	16.80	16.80	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.52	16.55	16.30	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.50	16.52	16.47	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.53	16.52	16.38	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.42	16.51	16.38	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.43	16.52	16.30	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.43	16.51	16.44	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.43	16.51	16.44	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.49	16.52	16.38	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.52	16.55	16.46	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.47	16.44	16.36	17.5	0.0

### Part27Q n78\_Ant 6 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.54				
100	PI2 BPSK	1	137	16.43			17.5	0.0
100	PI2 BPSK	1	211	16.23				
100	PI2 BPSK	135	0	16.47			17.5	0.0
100	PI2 BPSK	135	69	16.48			17.5	0.0
100	PI2 BPSK	135	138	16.38			17.5	0.0
100	PI2 BPSK	210	0	16.52				
100	QPSK	1	1	16.34				
100	QPSK	1	137	16.37			17.5	0.0
100	QPSK	1	211	16.28				
100	QPSK	135	0	16.33			17.5	0.0
100	QPSK	135	69	16.42			17.5	0.0
100	QPSK	135	138	16.43			17.5	0.0
100	QPSK	210	0	16.47				
100	16QAM	1	1	16.09			17.5	0.0
100	64QAM	1	1	16.11			17.5	0.0
100	256QAM	1	1	16.28			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.80	16.82	16.45	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.40	16.47	16.38	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.41	16.44	16.31	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.44	16.38	16.39	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.34	16.38	16.34	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.45	16.43	16.35	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.37	16.41	16.43	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.39	16.36	16.32	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.35	16.38	16.37	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.45	16.46	16.29	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.38	16.46	16.30	17.5	0.0

### Part27Q n78\_Ant 7 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.58				
100	PI2 BPSK	1	137	16.48			17.5	0.0
100	PI2 BPSK	1	211	16.31				
100	PI2 BPSK	135	0	16.52			17.5	0.0
100	PI2 BPSK	135	69	16.55			17.5	0.0
100	PI2 BPSK	135	138	16.39			17.5	0.0
100	PI2 BPSK	210	0	16.47				
100	QPSK	1	1	16.48				
100	QPSK	1	137	16.46			17.5	0.0
100	QPSK	1	211	16.32				
100	QPSK	135	0	16.55			17.5	0.0
100	QPSK	135	69	16.47			17.5	0.0
100	QPSK	135	138	16.38			17.5	0.0
100	QPSK	210	0	16.53				
100	16QAM	1	1	16.23			17.5	0.0
100	64QAM	1	1	16.34			17.5	0.0
100	256QAM	1	1	16.23			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.80	16.82	16.48	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.41	16.40	16.36	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.37	16.38	16.34	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.43	16.43	16.30	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.35	16.40	16.42	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.38	16.35	16.37	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.40	16.40	16.43	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.42	16.46	16.43	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.44	16.39	16.32	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.40	16.39	16.32	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.40	16.39	16.37	17.5	0.0



### Part270 n78\_Ant 7 DSI 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)								
100	PI2 BPSK	1	1	16.48				
100	PI2 BPSK	1	137	16.38			17.5	0.0
100	PI2 BPSK	1	211	16.22				
100	PI2 BPSK	135	0	16.43			17.5	0.0
100	PI2 BPSK	135	69	16.45			17.5	0.0
100	PI2 BPSK	135	138	16.36			17.5	0.0
100	PI2 BPSK	220	0	16.43				
100	QPSK	1	1	16.27				
100	QPSK	1	137	16.34			17.5	0.0
100	QPSK	1	211	16.16				
100	QPSK	135	0	16.35			17.5	0.0
100	QPSK	135	69	16.36			17.5	0.0
100	QPSK	135	138	16.36			17.5	0.0
100	QPSK	220	0	16.38				
100	16QAM	1	1	16.06			17.5	0.0
100	16QAM	1	1	16.07			17.5	0.0
100	256QAM	1	1	16.02			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.40	16.42	16.39	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.28	16.29	16.34	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.30	16.37	16.32	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.35	16.30	16.34	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.26	16.35	16.33	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.27	16.29	16.34	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.30	16.29	16.34	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.32	16.36	16.28	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.28	16.35	16.29	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.27	16.26	16.32	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.31	16.29	16.33	17.5	0.0

### Part27Q n78\_Ant 8 DSI 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)								
100	PI2 BPSK	1	1	16.36				
100	PI2 BPSK	1	137	16.21			17.5	0.0
100	PI2 BPSK	1	211	16.01				
100	PI2 BPSK	135	0	16.21			17.5	0.0
100	PI2 BPSK	135	69	16.25			17.5	0.0
100	PI2 BPSK	135	138	16.03			17.5	0.0
100	PI2 BPSK	220	0	16.16				
100	QPSK	1	1	16.24				
100	QPSK	1	137	16.21			17.5	0.0
100	QPSK	1	211	15.96				
100	QPSK	135	0	16.33			17.5	0.0
100	QPSK	135	69	16.24			17.5	0.0
100	QPSK	135	138	16.04			17.5	0.0
100	QPSK	220	0	16.24				
100	16QAM	1	1	15.98			17.5	0.0
100	16QAM	1	1	20.01			17.5	0.0
100	256QAM	1	1	16.21			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.28	16.32	16.25	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.23	16.21	16.16	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.12	16.20	16.19	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.20	16.17	16.11	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.23	16.20	16.19	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.14	16.16	16.20	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.21	16.22	16.11	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.18	16.26	16.09	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.19	16.17	16.09	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.15	16.21	16.13	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.18	16.21	16.17	17.5	0.0

### Part270 n78\_Ant 8 DSI 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)								
100	PI2 BPSK	1	1	16.23				
100	PI2 BPSK	1	137	16.09			17.5	0.0
100	PI2 BPSK	1	211	15.85				
100	PI2 BPSK	135	0	15.95			17.5	0.0
100	PI2 BPSK	135	69	16.20			17.5	0.0
100	PI2 BPSK	135	138	15.86			17.5	0.0
100	PI2 BPSK	220	0	16.18				
100	QPSK	1	1	15.75				
100	QPSK	1	137	15.88			17.5	0.0
100	QPSK	1	211	15.52				
100	QPSK	135	0	15.91			17.5	0.0
100	QPSK	135	69	15.93			17.5	0.0
100	QPSK	135	138	15.87			17.5	0.0
100	QPSK	220	0	15.94				
100	16QAM	1	1	15.85			17.5	0.0
100	16QAM	1	1	16.83			17.5	0.0
100	256QAM	1	1	15.82			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.91	15.95	15.86	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.86	15.89	15.73	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	15.78	15.79	15.70	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	15.85	15.90	15.75	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	15.90	15.90	15.81	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.75	15.83	15.73	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	15.79	15.84	15.70	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	15.83	15.82	15.75	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	15.79	15.86	15.74	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	15.75	15.84	15.77	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	15.75	15.85	15.80	17.5	0.0



For DFT-15

n5_Ant 0 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	25.23	25.26	25.24			
20	PI2 BPSK	1	53	25.22	25.25	25.23	25.7	0.0	
20	PI2 BPSK	1	104	25.17	25.17	25.12			
20	PI2 BPSK	50	0	24.45	24.47	24.48	25.2	0.5	
20	PI2 BPSK	50	28	24.95	25.03	25.03	25.7	0.0	
20	PI2 BPSK	50	56	24.42	24.41	24.36	25.2	0.5	
20	PI2 BPSK	100	0	24.42	24.47	24.45			
20	QPSK	1	1	25.03	25.08	25.00			
20	QPSK	1	53	24.93	25.03	24.92	25.7	0.0	
20	QPSK	1	104	24.88	25.01	24.80			
20	QPSK	50	0	23.98	24.06	24.01	24.7	1.0	
20	QPSK	50	28	24.94	25.08	24.99	25.7	0.0	
20	QPSK	50	56	23.89	24.04	23.95	24.7	1.0	
20	QPSK	100	0	24.02	24.07	23.92			
20	16QAM	1	1	23.81	23.97	23.86	24.7	1.0	
20	16QAM	1	1	22.43	22.55	22.39	23.2	2.5	
20	256QAM	1	1	23.93	23.93	23.92	21.2	4.5	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	25.02	25.07	24.99	25.7	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	25.00	25.10	24.94	25.7	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	25.02	25.08	24.98	25.7	0.0	

25.33

n5_Ant 1 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.04	22.12	22.06			
20	PI2 BPSK	1	53	22.02	22.08	22.01	22.7	0.0	
20	PI2 BPSK	1	104	21.92	21.98	21.95			
20	PI2 BPSK	50	0	21.83	21.90	21.85	22.7	0.0	
20	PI2 BPSK	50	28	21.91	21.98	21.93	22.7	0.0	
20	PI2 BPSK	50	56	21.81	21.84	21.82	22.7	0.0	
20	PI2 BPSK	100	0	21.82	21.88	21.83			
20	QPSK	1	1	21.91	21.97	21.93			
20	QPSK	1	53	21.86	22.04	22.04	22.7	0.0	
20	QPSK	1	104	21.82	21.95	21.85			
20	QPSK	50	0	21.78	21.94	21.74	22.7	0.0	
20	QPSK	50	28	21.77	21.93	21.91	22.7	0.0	
20	QPSK	50	56	21.69	21.82	21.80	22.7	0.0	
20	QPSK	100	0	21.67	21.81	21.71			
20	16QAM	1	1	21.48	21.64	21.58	22.7	0.0	
20	16QAM	1	1	22.11	22.08	22.09	22.7	0.0	
20	256QAM	1	1	20.81	20.72	20.68	21.2	1.5	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	21.80	22.07	21.82	22.7	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	21.94	22.20	21.97	22.7	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	21.93	22.03	22.00	22.7	0.0	

n7_Ant 0 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	22.38	22.41	22.38			
50	PI2 BPSK	1	135	22.28	22.28	22.21	24.0	0.0	
50	PI2 BPSK	1	268	22.38	22.24	22.31			
50	PI2 BPSK	135	0	21.78	21.83	21.87	23.5	0.5	
50	PI2 BPSK	135	68	22.38	22.38	22.21	24.0	0.0	
50	PI2 BPSK	135	135	21.44	21.35	21.42	23.5	0.5	
50	PI2 BPSK	270	0	21.74	21.75	21.66			
50	QPSK	1	1	22.37	22.40	22.38			
50	QPSK	1	135	22.28	22.34	22.23	24.0	0.0	
50	QPSK	1	268	22.04	22.11	21.86			
50	QPSK	135	0	21.08	21.21	21.15	23.0	1.0	
50	QPSK	135	68	22.13	22.21	22.12	24.0	0.0	
50	QPSK	135	135	20.83	20.93	20.79	23.0	1.0	
50	QPSK	270	0	21.02	21.13	21.06			
50	16QAM	1	1	21.21	21.28	21.15	23.0	1.0	
50	16QAM	1	1	19.68	19.78	19.71	21.5	2.5	
50	256QAM	1	1	18.60	18.63	18.56	19.5	4.5	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.31	22.32	22.27	24.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	22.36	22.31	22.31	24.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	21.40	21.56	21.40	24.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.37	22.15	22.30	24.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	21.98	22.11	21.97	24.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.03	22.15	22.02	24.0	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	21.96	22.03	21.97	24.0	0.0	



n7_Ant 2 DSI 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	24.48	24.59	24.56			
50	PI2 BPSK	1	135	24.22	24.28	24.14	25.0	0.0	
50	PI2 BPSK	1	288	24.34	24.26	24.56			
50	PI2 BPSK	135	0	23.82	23.89	23.80	24.5	0.5	
50	PI2 BPSK	135	68	24.26	24.33	24.29	25.0	0.0	
50	PI2 BPSK	135	135	23.82	23.86	23.76	24.5	0.5	
50	PI2 BPSK	220	0	23.86	23.80	23.82			
50	QPSK	1	1	24.34	24.43	24.34			
50	QPSK	1	135	23.84	24.10	23.97	25.0	0.0	
50	QPSK	1	288	24.15	24.27	24.21			
50	QPSK	135	0	23.73	23.83	23.68	24.0	1.0	
50	QPSK	135	68	24.19	24.24	24.17	25.0	0.0	
50	QPSK	135	135	23.84	23.88	23.86	24.0	1.0	
50	QPSK	220	0	23.67	23.75	23.68			
50	16QAM	1	1	23.81	23.82	23.80	24.0	1.0	
50	16QAM	1	1	21.32	21.38	21.30	22.5	2.5	
50	16QAM	1	1	20.34	20.47	20.39	20.5	4.5	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.26	24.39	24.24	23.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.32	24.27	24.32	25.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	23.34	23.41	23.34	25.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.09	24.19	24.07	25.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.08	24.12	24.13	25.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.07	24.14	24.11	25.0	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	24.09	24.12	24.12	25.0	0.0	

n7_Ant 3 DSI 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	24.21	24.26	24.24			
50	PI2 BPSK	1	135	24.19	24.21	24.18	25.2	0.0	
50	PI2 BPSK	1	288	24.17	24.23	24.17			
50	PI2 BPSK	135	0	24.24	24.24	24.17	24.7	0.5	
50	PI2 BPSK	135	68	24.19	24.25	24.23	25.2	0.0	
50	PI2 BPSK	135	135	24.17	24.17	24.16	24.7	0.5	
50	PI2 BPSK	220	0	24.18	24.16	24.15			
50	QPSK	1	1	24.02	24.08	24.06			
50	QPSK	1	135	24.09	24.12	24.11	25.2	0.0	
50	QPSK	1	288	24.04	24.06	24.03			
50	QPSK	135	0	24.03	24.09	24.08	24.2	1.0	
50	QPSK	135	68	24.15	24.18	24.17	25.2	0.0	
50	QPSK	135	135	24.16	24.16	24.09	24.2	1.0	
50	QPSK	220	0	24.17	24.20	24.13			
50	16QAM	1	1	24.19	24.21	24.20	24.2	1.0	
50	16QAM	1	1	24.04	24.09	24.03	22.7	2.5	
50	16QAM	1	1	23.94	24.00	23.96	20.7	4.5	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.17	24.25	24.20	23.2	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.15	24.22	24.23	25.2	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	24.18	24.24	24.20	25.2	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.18	24.21	24.19	25.2	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.16	24.21	24.24	25.2	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.16	24.21	24.21	25.2	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	24.16	24.22	24.18	25.2	0.0	

n7_Ant 5 DSI 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	23.91	23.95	23.93			
50	PI2 BPSK	1	135	22.85	22.96	22.92	24.5	0.0	
50	PI2 BPSK	1	288	22.92	23.01	22.95			
50	PI2 BPSK	135	0	22.60	22.71	22.57	24.0	0.5	
50	PI2 BPSK	135	68	22.78	22.81	22.79	24.5	0.0	
50	PI2 BPSK	135	135	22.86	22.71	22.84	24.0	0.5	
50	PI2 BPSK	220	0	22.92	22.90	22.93			
50	QPSK	1	1	22.79	22.95	22.90			
50	QPSK	1	135	22.62	22.76	22.69	24.5	0.0	
50	QPSK	1	288	22.95	23.00	23.00			
50	QPSK	135	0	21.65	21.77	21.63	23.5	1.0	
50	QPSK	135	68	22.82	22.95	22.81	24.5	0.0	
50	QPSK	135	135	21.79	21.86	21.71	23.5	1.0	
50	QPSK	220	0	21.77	21.87	21.82			
50	16QAM	1	1	21.38	21.51	21.37	23.5	1.0	
50	16QAM	1	1	20.02	20.11	19.87	22.0	2.5	
50	16QAM	1	1	18.93	19.07	18.96	20.0	4.5	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.92	23.00	22.92	24.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	22.87	22.97	22.84	24.5	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	22.94	22.36	22.92	24.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.92	22.94	22.93	24.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.90	22.88	22.92	24.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.94	22.88	22.84	24.5	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	22.85	22.84	22.81	24.5	0.0	



For DFT-30

n38_Ant 0 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.83	22.89	22.80			
40	PI2 BPSK	1	53	22.73	22.68	22.56	24.0	0.0	
40	PI2 BPSK	1	104	22.47	22.34	22.23			
40	PI2 BPSK	50	0	21.87	22.02	21.92	23.5	0.5	
40	PI2 BPSK	50	28	22.36	22.75	22.34	24.0	0.0	
40	PI2 BPSK	50	56	22.01	22.15	22.09			
40	PI2 BPSK	100	0	22.35	22.25	22.12	23.5	0.5	
40	QPSK	1	1	22.69	22.74	22.69			
40	QPSK	1	53	22.37	22.56	22.35	24.0	0.0	
40	QPSK	1	104	22.24	22.59	22.26			
40	QPSK	50	0	22.38	22.65	22.39			
40	QPSK	50	28	22.31	22.53	22.29	24.0	0.0	
40	QPSK	50	56	22.17	22.01	22.11			
40	QPSK	100	0	21.52	21.55	21.53	23.0	1.0	
40	16QAM	1	1	21.24	21.54	21.16	23.0	1.0	
40	64QAM	1	1	20.05	20.12	20.05	21.5	2.5	
40	256QAM	1	1	18.41	18.48	18.43	19.3	4.5	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	22.53	22.69	22.56	24.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	21.80	21.91	21.76	24.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.55	22.74	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.50	22.61	22.50	24.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.61	22.65	22.61	24.0	0.0	

n38_Ant 2 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.94	24.98	24.98			
40	PI2 BPSK	1	53	24.82	24.83	24.74	25.5	0.0	
40	PI2 BPSK	1	104	24.36	24.50	24.82			
40	PI2 BPSK	50	0	24.07	24.22	24.12	25.0	0.5	
40	PI2 BPSK	50	28	24.54	24.68	24.55	25.5	0.0	
40	PI2 BPSK	50	56	24.36	24.07	23.93			
40	PI2 BPSK	100	0	24.04	24.16	24.08	25.0	0.5	
40	QPSK	1	1	24.89	24.97	24.91			
40	QPSK	1	53	24.69	24.75	24.67	25.5	0.0	
40	QPSK	1	104	24.55	24.77	24.81			
40	QPSK	50	0	24.37	24.51	24.41			
40	QPSK	50	28	24.36	24.48	24.39	25.5	0.0	
40	QPSK	50	56	24.33	24.38	24.24			
40	QPSK	100	0	23.87	23.84	23.73	24.5	1.0	
40	16QAM	1	1	23.57	23.63	23.49	24.5	1.0	
40	64QAM	1	1	22.03	22.12	21.98	23.0	2.5	
40	256QAM	1	1	20.67	20.82	20.72	21.0	4.5	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.71	24.82	24.70	25.5	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	24.01	24.16	24.08	25.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.72	24.86	24.72	25.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.71	24.79	24.75	25.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.74	24.73	24.68	25.5	0.0	

n38_Ant 3 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.84	25.20	24.86			
40	PI2 BPSK	1	53	24.82	25.00	24.82	25.7	0.0	
40	PI2 BPSK	1	104	24.61	25.19	24.73			
40	PI2 BPSK	50	0	24.38	24.56	24.33	25.2	0.5	
40	PI2 BPSK	50	28	24.69	24.88	24.65	25.7	0.0	
40	PI2 BPSK	50	56	24.17	24.28	24.19			
40	PI2 BPSK	100	0	24.18	24.34	24.20	25.2	0.5	
40	QPSK	1	1	24.37	24.49	24.38			
40	QPSK	1	53	24.67	24.65	24.67	25.7	0.0	
40	QPSK	1	104	24.68	24.78	24.69			
40	QPSK	50	0	23.68	23.77	23.72			
40	QPSK	50	28	24.19	24.25	24.20	25.7	0.0	
40	QPSK	50	56	23.53	23.60	23.54			
40	QPSK	100	0	23.59	23.69	23.61	24.7	1.0	
40	16QAM	1	1	23.65	23.71	23.63	24.7	1.0	
40	64QAM	1	1	22.36	22.43	22.36	23.2	2.5	
40	256QAM	1	1	20.97	21.00	21.00	21.2	4.5	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.38	24.54	24.43	25.7	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	23.77	23.83	23.75	25.7	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.42	24.64	24.39	25.7	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.43	24.65	24.45	25.7	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.47	24.66	24.49	25.7	0.0	



n38_Ant 5 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
49	PI2 BPSK	1	1	23.18	23.56	23.21	25.0	0.0	
49	PI2 BPSK	1	33	23.06	23.46	23.11			
49	PI2 BPSK	1	104	23.17	23.44	23.28			
49	PI2 BPSK	50	0	22.84	23.00	22.91	24.5	0.5	
49	PI2 BPSK	50	28	23.32	23.42	23.38	25.0	0.0	
49	PI2 BPSK	50	56	22.80	22.90	22.84	24.5	0.5	
49	PI2 BPSK	100	0	22.84	22.92	22.88	25.0	0.0	
49	QPSK	1	1	23.21	23.33	23.17			
49	QPSK	1	33	23.22	23.21	22.67			
49	QPSK	1	104	23.23	23.23	22.60	25.0	0.0	
49	QPSK	50	0	22.69	23.22	22.77			
49	QPSK	50	28	22.64	23.20	22.71			
49	QPSK	50	56	22.63	23.21	22.61	24.0	1.0	
49	QPSK	100	0	22.69	22.70	22.68	24.0	1.0	
49	16QAM	1	1	22.91	22.98	22.87	24.0	1.0	
49	64QAM	1	1	20.28	20.22	20.25	22.5	2.5	
49	256QAM	1	1	18.84	18.96	18.81	20.5	4.5	
Channel									
Frequency (MHz)									
51	PI2 BPSK	1	1	23.07	23.46	23.07	25.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	23.06	23.40	23.08	25.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.99	23.51	23.11	25.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.90	23.45	23.11	25.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	23.04	23.43	23.07	25.0	0.0	

n41_Ant 0 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	23.45	23.57	23.58	24.5	0.0	
100	PI2 BPSK	1	137	23.38	23.42	23.40			
100	PI2 BPSK	1	211	23.31	23.38	23.32			
100	PI2 BPSK	135	0	22.87	23.04	22.84	24.0	0.5	
100	PI2 BPSK	135	69	23.41	23.48	23.42	24.5	0.0	
100	PI2 BPSK	135	138	22.40	22.54	22.48	24.0	0.5	
100	PI2 BPSK	270	0	22.68	22.74	22.69	24.5	0.0	
100	QPSK	1	1	23.25	23.35	23.25			
100	QPSK	1	137	23.28	23.32	23.31			
100	QPSK	1	211	23.31	23.35	23.33	24.5	0.0	
100	QPSK	135	0	23.00	23.03	23.01			
100	QPSK	135	69	23.21	23.32	23.24			
100	QPSK	135	138	23.15	23.28	23.21	24.5	1.0	
100	QPSK	270	0	22.69	22.78	22.71	23.5	1.0	
100	16QAM	1	1	22.03	22.17	22.10	23.5	1.0	
100	64QAM	1	1	20.57	20.85	20.56	22.0	2.5	
100	256QAM	1	1	19.20	19.20	19.21	20.5	4.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	23.24	23.37	23.25	24.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	23.29	23.33	23.24	24.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	23.29	23.35	23.28	24.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	23.22	23.34	23.31	24.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	23.21	23.34	23.27	24.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	23.23	23.29	23.24	24.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	23.32	23.29	23.24	24.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	23.23	23.41	23.25	24.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	23.26	23.39	23.30	24.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	23.09	23.15	23.06	24.5	0.0	

n41_Ant 2 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	24.96	25.10	25.01	25.5	0.0	
100	PI2 BPSK	1	137	24.83	25.02	24.99			
100	PI2 BPSK	1	211	24.85	24.95	24.83			
100	PI2 BPSK	135	0	24.67	24.85	24.65	25.0	0.5	
100	PI2 BPSK	135	69	24.71	24.87	24.75	25.5	0.0	
100	PI2 BPSK	135	138	24.45	24.41	24.21	25.0	0.5	
100	PI2 BPSK	270	0	24.82	24.71	24.61	25.5	0.0	
100	QPSK	1	1	24.94	25.01	24.88			
100	QPSK	1	137	24.48	24.63	24.58			
100	QPSK	1	211	24.81	24.71	24.59	25.5	0.0	
100	QPSK	135	0	24.07	24.23	24.16			
100	QPSK	135	69	24.56	24.66	24.54			
100	QPSK	135	138	24.05	24.03	24.05	24.5	1.0	
100	QPSK	270	0	24.63	24.10	23.97	24.5	1.0	
100	16QAM	1	1	24.21	24.35	24.19	24.5	1.0	
100	64QAM	1	1	22.75	22.82	22.77	23.0	2.5	
100	256QAM	1	1	21.14	21.20	21.21	21.0	4.5	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	24.96	25.06	24.87	25.5	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	24.99	24.95	24.97	25.5	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	24.96	24.87	25.02	25.5	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	25.00	25.08	24.99	25.5	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	24.92	25.01	24.94	25.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.92	24.91	24.58	25.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.99	24.81	25.00	25.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.90	24.46	24.28	25.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.31	24.45	24.25	25.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.27	24.36	24.29	25.5	0.0	



### n41\_Ant 3 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.15	24.18	24.13		
100	PI2 BPSK	1	137	24.04	24.06	24.06	24.7	0.0
100	PI2 BPSK	1	211	24.11	24.15	24.11		
100	PI2 BPSK	135	0	24.11	24.11	24.07	24.2	0.5
100	PI2 BPSK	135	69	24.10	24.15	24.12	24.7	0.0
100	PI2 BPSK	135	138	24.08	24.13	24.11	24.2	0.5
100	PI2 BPSK	210	0	24.07	24.11	24.09		
100	QPSK	1	1	24.04	24.09	24.04		
100	QPSK	1	137	24.06	24.10	24.06	24.7	0.0
100	QPSK	1	211	24.05	24.05	24.05		
100	QPSK	135	0	24.06	24.11	24.07		
100	QPSK	135	69	24.09	24.15	24.09	24.7	0.0
100	QPSK	135	138	24.11	24.13	24.09	24.7	1.0
100	QPSK	210	0	24.07	24.09	24.08		
100	16QAM	1	1	24.04	24.07	24.06	23.7	1.0
100	64QAM	1	1	22.27	22.31	22.28	22.2	2.5
100	256QAM	1	1	19.31	19.37	19.35	20.2	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.14	24.16	24.13	24.7	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.12	24.12	24.13	24.7	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	24.13	24.17	24.13	24.7	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.10	24.14	24.12	24.7	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.13	24.12	24.07	24.7	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.12	24.16	24.12	24.7	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.11	24.16	24.13	24.7	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.11	24.12	24.09	24.7	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	24.15	24.14	24.08	24.7	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	24.12	24.16	24.10	24.7	0.0

### n41\_Ant 5 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	24.18	24.54	24.24		
100	PI2 BPSK	1	137	23.74	24.50	23.58	25.5	0.0
100	PI2 BPSK	1	211	23.57	24.25	23.23		
100	PI2 BPSK	135	0	23.85	24.01	23.80	25.0	0.5
100	PI2 BPSK	135	69	24.37	24.43	24.38	25.5	0.0
100	PI2 BPSK	135	138	23.92	23.95	23.92	25.0	0.5
100	PI2 BPSK	210	0	23.77	23.83	23.73		
100	QPSK	1	1	23.86	24.05	23.80		
100	QPSK	1	137	23.78	24.06	23.82	25.5	0.0
100	QPSK	1	211	23.63	24.08	23.63		
100	QPSK	135	0	24.20	24.26	24.15		
100	QPSK	135	69	24.33	24.40	24.28	25.5	0.0
100	QPSK	135	138	23.94	24.02	23.97	25.0	1.0
100	QPSK	210	0	23.17	23.23	23.10	24.5	1.0
100	16QAM	1	1	23.56	23.71	23.56	24.5	1.0
100	64QAM	1	1	21.87	21.75	21.59	23.0	2.5
100	256QAM	1	1	20.28	20.32	20.16	21.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	24.21	24.27	24.11	25.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	24.19	24.18	24.12	25.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	24.17	24.15	24.22	25.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	24.20	24.34	24.13	25.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	24.15	24.31	24.19	25.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	24.11	24.21	24.13	25.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	24.13	24.16	24.22	25.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	24.03	24.02	24.01	25.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	24.03	24.05	24.02	25.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	24.01	24.12	24.06	25.5	0.0

### Par27Q n77\_Ant 4 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		23.26			
100	PI2 BPSK	1	137		23.21		23.7	0.0
100	PI2 BPSK	1	211		22.57			
100	PI2 BPSK	135	0		22.60		23.7	0.0
100	PI2 BPSK	135	69		23.21		23.7	0.0
100	PI2 BPSK	135	138		22.57		23.7	0.0
100	PI2 BPSK	210	0		22.64			
100	QPSK	1	1		22.75			
100	QPSK	1	137		22.86		23.7	0.0
100	QPSK	1	211		23.12			
100	QPSK	135	0		23.05			
100	QPSK	135	69		23.01		23.7	0.0
100	QPSK	135	138		23.03		23.7	0.0
100	QPSK	210	0		23.11			
100	16QAM	1	1		23.07		23.7	0.0
100	64QAM	1	1		22.86		23.2	0.5
100	256QAM	1	1		21.23		21.2	2.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	23.16	23.13	23.21	23.7	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	23.03	23.08	23.05	23.7	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	23.01	23.04	23.05	23.7	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	23.02	23.03	23.13	23.7	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	23.10	23.06	23.06	23.7	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.02	23.03	23.03	23.7	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	23.02	23.02	23.02	23.7	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	23.10	22.87	23.08	23.7	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	23.01	23.02	23.16	23.7	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	23.11	23.02	23.14	23.7	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	23.10	23.07	23.13	23.7	0.0



**Par270 n77\_Ant 4 DSI 3**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.19	23.28	23.27		
100	PI2 BPSK	1	137	22.98	23.13	23.05	23.7	0.0
100	PI2 BPSK	1	211	23.18	23.27	23.28		
100	PI2 BPSK	135	0	22.20	22.61	22.53	23.7	0.0
100	PI2 BPSK	135	69	22.85	23.15	23.10	23.7	0.0
100	PI2 BPSK	135	138	22.46	22.99	22.94	23.7	0.0
100	PI2 BPSK	210	0	22.24	22.71	22.69		
100	QPSK	1	1	23.12	23.23	23.12		
100	QPSK	1	137	22.98	23.06	22.99	23.7	0.0
100	QPSK	1	211	23.06	23.26	23.14		
100	QPSK	135	0	23.03	23.10	22.94	23.7	0.0
100	QPSK	135	69	22.90	23.06	22.98	23.7	0.0
100	QPSK	135	138	22.86	23.05	22.94	23.7	0.0
100	QPSK	210	0	22.52	23.08	22.51	23.7	0.0
100	16QAM	1	1	21.04	21.15	21.08	23.7	0.0
100	64QAM	1	1	22.44	22.85	22.42	23.2	0.5
100	256QAM	1	1	21.90	21.96	21.90	21.2	2.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	23.16	23.11	23.20	23.7	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	23.11	23.15	23.18	23.7	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	23.21	23.07	23.17	23.7	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	23.10	23.12	23.21	23.7	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	23.13	23.07	23.04	23.7	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.20	23.15	23.10	23.7	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	23.19	23.10	23.05	23.7	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	23.11	23.05	23.05	23.7	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	23.18	23.15	23.17	23.7	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	23.15	23.07	23.08	23.7	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	23.19	23.07	23.21	23.7	0.0

**Par27Q n77\_Ant 6 DSI 3**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		22.98			
100	PI2 BPSK	1	137		22.62		24.5	0.0
100	PI2 BPSK	1	211		22.98			
100	PI2 BPSK	135	0		22.28		24.0	0.5
100	PI2 BPSK	135	69		22.71		24.5	0.0
100	PI2 BPSK	135	138		22.25		24.0	0.5
100	PI2 BPSK	210	0		22.31			
100	QPSK	1	1		22.80			
100	QPSK	1	137		22.61		24.5	0.0
100	QPSK	1	211		22.98			
100	QPSK	135	0		22.78		24.5	0.0
100	QPSK	135	69		22.62		24.5	0.0
100	QPSK	135	138		22.78		24.5	1.0
100	QPSK	210	0		21.75		23.5	4.5
100	16QAM	1	1		21.89		23.5	1.0
100	64QAM	1	1		20.22		22.0	2.5
100	256QAM	1	1		18.78		20.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	22.83	22.82	22.78	24.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.89	22.75	22.70	24.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	22.70	22.77	22.68	24.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.72	22.72	22.64	24.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	22.88	22.72	22.65	24.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.68	22.72	22.67	24.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.70	22.72	22.63	24.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	22.76	22.67	22.67	24.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.68	22.74	22.72	24.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	22.72	22.76	22.68	24.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	22.73	22.71	22.65	24.5	0.0

**Par270 n77\_Ant 6 DSI 3**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.69	23.05	23.03		
100	PI2 BPSK	1	137	22.49	22.84	22.83	24.5	0.0
100	PI2 BPSK	1	211	22.67	23.03	23.02		
100	PI2 BPSK	135	0	22.05	22.32	22.38	24.0	0.5
100	PI2 BPSK	135	69	22.43	22.79	22.76	24.5	0.0
100	PI2 BPSK	135	138	22.15	22.42	22.29	24.0	0.5
100	PI2 BPSK	210	0	22.12	22.45	22.44		
100	QPSK	1	1	22.99	22.87	22.88		
100	QPSK	1	137	22.44	22.73	22.70	24.5	0.0
100	QPSK	1	211	22.67	22.86	23.00		
100	QPSK	135	0	22.60	22.86	22.87	24.5	0.0
100	QPSK	135	69	22.45	22.76	22.83	24.5	0.0
100	QPSK	135	138	22.51	22.60	22.67	24.5	1.0
100	QPSK	210	0	21.53	21.63	21.60	23.5	1.0
100	16QAM	1	1	21.38	21.63	21.64	23.5	1.0
100	64QAM	1	1	19.80	20.59	20.67	22.0	2.5
100	256QAM	1	1	18.44	18.78	18.82	20.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	22.67	22.85	22.84	24.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.85	22.79	22.82	24.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	22.54	22.62	22.87	24.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.61	22.73	22.80	24.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	22.87	22.74	22.83	24.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.63	22.77	22.84	24.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.62	22.71	22.81	24.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	22.59	22.80	22.78	24.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.56	22.78	22.80	24.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	22.53	22.77	22.88	24.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	22.55	22.76	22.84	24.5	0.0



**Par27Q n77\_Ant 7 DSI 3**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.30				
100	PI2 BPSK	1	137	16.37			17.5	0.0
100	PI2 BPSK	1	211	16.28				
100	PI2 BPSK	135	0	16.51			17.5	0.0
100	PI2 BPSK	135	69	16.38			17.5	0.0
100	PI2 BPSK	135	138	16.25			17.5	0.0
100	PI2 BPSK	270	0	16.33				
100	QPSK	1	1	16.32				
100	QPSK	1	137	16.38			17.5	0.0
100	QPSK	1	211	16.17				
100	QPSK	135	0	16.36				
100	QPSK	135	69	16.34			17.5	0.0
100	QPSK	135	138	16.22			17.5	0.0
100	QPSK	270	0	16.23				
100	16QAM	1	1	16.11			17.5	0.0
100	64QAM	1	1	16.18			17.5	0.0
100	256QAM	1	1	16.10			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.28	16.32	16.27	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.16	16.21	16.19	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.13	16.17	16.16	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.20	16.24	16.12	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.22	16.25	16.22	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.13	16.16	16.12	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.21	16.24	16.17	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.21	16.19	16.14	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.22	16.20	16.13	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.21	16.19	16.20	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.23	16.18	16.15	17.5	0.0

**Par27Q n77\_Ant 7 DSI 3**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.44	16.57	16.35		
100	PI2 BPSK	1	137	16.44	16.51	16.32	17.5	0.0
100	PI2 BPSK	1	211	16.20	16.23	16.12		
100	PI2 BPSK	135	0	16.22	16.27	16.10	17.5	0.0
100	PI2 BPSK	135	69	16.25	16.28	16.12	17.5	0.0
100	PI2 BPSK	135	138	16.12	16.25	16.10	17.5	0.0
100	PI2 BPSK	270	0	16.18	16.23	16.17		
100	QPSK	1	1	16.12	16.22	16.08		
100	QPSK	1	137	16.05	16.16	15.98	17.5	0.0
100	QPSK	1	211	16.03	16.08	15.84		
100	QPSK	135	0	16.23	16.28	16.06		
100	QPSK	135	69	16.12	16.22	16.10	17.5	0.0
100	QPSK	135	138	16.03	16.08	15.88	17.5	0.0
100	QPSK	270	0	16.21	16.21	16.09	17.5	0.0
100	16QAM	1	1	15.90	15.99	15.81	17.5	0.0
100	64QAM	1	1	16.01	16.05	15.93	17.5	0.0
100	256QAM	1	1	16.16	16.18	16.08	17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.30	16.46	16.30	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.42	16.48	16.26	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.42	16.42	16.23	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.34	16.42	16.22	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.43	16.50	16.35	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.38	16.44	16.30	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.42	16.46	16.20	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.37	16.45	16.27	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.38	16.44	16.20	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.35	16.43	16.19	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.38	16.48	16.20	17.5	0.0

**Par27Q n77\_Ant 8 DSI 3**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.33				
100	PI2 BPSK	1	137	23.08			24.2	0.0
100	PI2 BPSK	1	211	23.32				
100	PI2 BPSK	135	0	22.67			24.2	0.0
100	PI2 BPSK	135	69	23.04			24.2	0.0
100	PI2 BPSK	135	138	22.60			24.2	0.0
100	PI2 BPSK	270	0	22.65				
100	QPSK	1	1	23.28				
100	QPSK	1	137	23.06			24.2	0.0
100	QPSK	1	211	23.1				
100	QPSK	135	0	23.15				
100	QPSK	135	69	22.98			24.2	0.0
100	QPSK	135	138	23.12			24.2	0.0
100	QPSK	270	0	22.61				
100	16QAM	1	1	22.53			24.2	0.0
100	64QAM	1	1	22.59			23.2	1.0
100	256QAM	1	1	22.68			21.2	3.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	23.18	23.12	23.10	24.2	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	23.12	22.96	23.03	24.2	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	23.06	22.99	23.14	24.2	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	23.04	23.07	23.09	24.2	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	23.11	23.04	23.03	24.2	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.04	23.01	23.11	24.2	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	23.07	22.97	23.00	24.2	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	23.09	23.01	23.04	24.2	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	23.06	23.00	23.08	24.2	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	23.03	23.04	23.07	24.2	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	23.03	23.05	23.08	24.2	0.0



### Par270 n77\_Ant 8 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.15	23.20	23.28		
100	PI2 BPSK	1	137	21.86	22.89	22.83	24.2	0.0
100	PI2 BPSK	1	211	23.12	23.28	23.28		
100	PI2 BPSK	135	0	22.52	22.52	22.53	24.2	0.0
100	PI2 BPSK	135	69	22.52	22.59	22.58	24.2	0.0
100	PI2 BPSK	135	138	22.56	22.51	22.57	24.2	0.0
100	PI2 BPSK	270	0	22.57	22.57	22.58		
100	QPSK	1	1	22.90	23.02	22.89		
100	QPSK	1	137	22.75	22.85	22.75	24.2	0.0
100	QPSK	1	211	23.00	23.09	22.98		
100	QPSK	135	0	22.89	22.97	22.84	24.2	0.0
100	QPSK	135	69	22.70	22.85	22.78	24.2	0.0
100	QPSK	135	138	22.89	22.96	22.87	24.2	0.0
100	QPSK	270	0	22.50	22.44	22.39		
100	16QAM	1	1	22.23	22.32	22.19	24.2	0.0
100	64QAM	1	1	21.68	21.83	21.67	23.2	1.0
100	256QAM	1	1	20.47	20.54	20.44	21.2	3.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	22.89	22.98	23.01	24.2	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.89	23.02	22.94	24.2	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	22.93	22.96	22.93	24.2	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.95	22.99	22.92	24.2	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	22.91	23.02	22.94	24.2	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.81	23.01	22.93	24.2	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.94	22.95	23.00	24.2	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	22.83	22.94	22.89	24.2	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.89	22.94	23.01	24.2	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	22.95	23.02	22.96	24.2	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	22.99	23.00	22.94	24.2	0.0

### Part27Q n78\_Ant 4 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		23.82			
100	PI2 BPSK	1	137		23.53		24.5	0.0
100	PI2 BPSK	1	211		23.78			
100	PI2 BPSK	135	0		23.68		24.5	0.0
100	PI2 BPSK	135	69		23.70		24.5	0.0
100	PI2 BPSK	135	138		23.81		24.5	0.0
100	PI2 BPSK	270	0		23.82			
100	QPSK	1	1		23.73			
100	QPSK	1	137		23.65		24.5	0.0
100	QPSK	1	211		23.63			
100	QPSK	135	0		23.45		24.5	0.0
100	QPSK	135	69		23.44		24.5	0.0
100	QPSK	135	138		23.56		24.5	0.0
100	QPSK	270	0		23.59			
100	16QAM	1	1		22.48		24.5	0.0
100	64QAM	1	1		21.01		24.5	0.0
100	256QAM	1	1		19.71		22.5	2.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	23.71	23.69	23.76	24.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	23.63	23.57	23.65	24.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	23.60	23.59	23.62	24.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	23.55	23.50	23.69	24.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	23.56	23.59	23.61	24.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.65	23.64	23.63	24.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	23.60	23.60	23.60	24.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	23.60	23.54	23.61	24.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	23.62	23.60	23.61	24.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	23.55	23.58	23.66	24.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	23.66	23.66	23.65	24.5	0.0

### Part27Q n78\_Ant 4 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		23.78			
100	PI2 BPSK	1	137		23.42		24.5	0.0
100	PI2 BPSK	1	211		23.78			
100	PI2 BPSK	135	0		23.09		24.5	0.0
100	PI2 BPSK	135	69		23.73		24.5	0.0
100	PI2 BPSK	135	138		23.14		24.5	0.0
100	PI2 BPSK	270	0		23.52			
100	QPSK	1	1		23.50			
100	QPSK	1	137		23.41		24.5	0.0
100	QPSK	1	211		23.69			
100	QPSK	135	0		23.47		24.5	0.0
100	QPSK	135	69		23.50		24.5	0.0
100	QPSK	135	138		23.54		24.5	0.0
100	QPSK	270	0		22.52			
100	16QAM	1	1		23.60		24.5	0.0
100	64QAM	1	1		22.65		24.5	0.0
100	256QAM	1	1		21.85		22.5	2.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	23.48	23.47	23.54	24.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	23.34	23.33	23.44	24.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	23.33	23.34	23.44	24.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	23.43	23.42	23.44	24.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	23.33	23.35	23.44	24.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.37	23.39	23.42	24.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	23.35	23.40	23.42	24.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	23.36	23.36	23.40	24.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	23.43	23.33	23.49	24.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	23.34	23.33	23.47	24.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	23.44	23.33	23.49	24.5	0.0



### Part27Q n78\_Ant 6 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.95				
100	PI2 BPSK	1	137	23.70			25.0	0.0
100	PI2 BPSK	1	211	23.52				
100	PI2 BPSK	135	0	23.35			24.5	0.5
100	PI2 BPSK	135	69	23.65			25.0	0.0
100	PI2 BPSK	135	138	23.25				
100	PI2 BPSK	210	0	23.38			24.5	0.5
100	QPSK	1	1	23.84				
100	QPSK	1	137	23.71			25.0	0.0
100	QPSK	1	211	23.58				
100	QPSK	135	0	23.78				
100	QPSK	135	69	23.62			25.0	0.0
100	QPSK	135	138	23.75				
100	QPSK	210	0	23.77			24.0	1.0
100	16QAM	1	1	22.57			24.0	1.0
100	64QAM	1	1	21.10			22.5	2.5
100	256QAM	1	1	19.80			20.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	63300	63334	63366	Tune-up limit (dBm)	MPR (dB)
				3495	3500.01	3504.99		
90	PI2 BPSK	1	1	23.85	23.84	23.85	25.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	23.79	23.74	23.84	25.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	23.76	23.73	23.82	25.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	23.73	23.73	23.82	25.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	23.80	23.69	23.83	25.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.72	23.69	23.83	25.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	23.74	23.78	23.80	25.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	23.72	23.78	23.76	25.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	23.81	23.73	23.80	25.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	23.75	23.69	23.84	25.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	23.81	23.71	23.81	25.0	0.0

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### Part27Q n78\_Ant 6 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	23.89				
100	PI2 BPSK	1	137	23.56			25.0	0.0
100	PI2 BPSK	1	211	23.88				
100	PI2 BPSK	135	0	23.16			24.5	0.5
100	PI2 BPSK	135	69	23.69			25.0	0.0
100	PI2 BPSK	135	138	23.25				
100	PI2 BPSK	210	0	23.27			24.5	0.5
100	QPSK	1	1	23.85				
100	QPSK	1	137	23.58			25.0	0.0
100	QPSK	1	211	23.87				
100	QPSK	135	0	23.64				
100	QPSK	135	69	23.62			25.0	0.0
100	QPSK	135	138	23.74				
100	QPSK	210	0	23.71			24.0	1.0
100	16QAM	1	1	22.38			24.0	1.0
100	64QAM	1	1	20.98			22.5	2.5
100	256QAM	1	1	19.61			20.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	64968	65000	65032	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3754.98		
90	PI2 BPSK	1	1	23.87	23.86	23.84	25.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	23.80	23.44	23.48	25.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	23.52	23.52	23.58	25.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	23.54	23.53	23.54	25.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	23.57	23.55	23.52	25.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	23.62	23.55	23.59	25.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	23.81	23.44	23.42	25.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	23.59	23.44	23.49	25.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	23.62	23.53	23.58	25.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	23.57	23.54	23.48	25.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	23.57	23.47	23.50	25.0	0.0

### Part27Q n78\_Ant 7 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power Middle Ch./Freq	Power High Ch./Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.58				
100	PI2 BPSK	1	137	16.45			17.5	0.0
100	PI2 BPSK	1	211	16.31				
100	PI2 BPSK	135	0	16.52			17.5	0.0
100	PI2 BPSK	135	69	16.55			17.5	0.0
100	PI2 BPSK	135	138	16.29				
100	PI2 BPSK	210	0	16.47			17.5	0.0
100	QPSK	1	1	16.48				
100	QPSK	1	137	16.46			17.5	0.0
100	QPSK	1	211	16.32				
100	QPSK	135	0	16.55				
100	QPSK	135	69	16.47			17.5	0.0
100	QPSK	135	138	16.26				
100	QPSK	210	0	16.23			17.5	0.0
100	16QAM	1	1	16.23			17.5	0.0
100	64QAM	1	1	16.34			17.5	0.0
100	256QAM	1	1	16.23			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	63300	63334	63366	Tune-up limit (dBm)	MPR (dB)
				3495	3500.01	3504.99		
90	PI2 BPSK	1	1	16.80	16.82	16.83	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.41	16.40	16.36	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.37	16.38	16.34	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.43	16.43	16.35	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.35	16.34	16.30	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.38	16.40	16.42	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.35	16.35	16.37	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.42	16.46	16.43	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.44	16.39	16.32	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.40	16.39	16.42	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.40	16.39	16.37	17.5	0.0



**Part270 n78\_Ant 7 DSI 3**

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)								
100	Pi2 BPSK	1	1	16.48				
100	Pi2 BPSK	1	137	16.38			17.5	0.0
100	Pi2 BPSK	1	211	16.32				
100	Pi2 BPSK	135	0	16.43			17.5	0.0
100	Pi2 BPSK	135	69	16.45			17.5	0.0
100	Pi2 BPSK	135	138	16.36			17.5	0.0
100	Pi2 BPSK	220	0	16.43				
100	QPSK	1	1	16.27				
100	QPSK	1	137	16.34			17.5	0.0
100	QPSK	1	211	16.16				
100	QPSK	135	0	16.35				
100	QPSK	135	69	16.36			17.5	0.0
100	QPSK	135	138	16.36			17.5	0.0
100	QPSK	220	0	16.38				
100	16QAM	1	1	16.06			17.5	0.0
100	16QAM	1	1	16.07			17.5	0.0
100	256QAM	1	1	16.02			17.5	0.0
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	16.40	16.42	16.39	17.5	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	16.28	16.29	16.34	17.5	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	16.30	16.37	16.32	17.5	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	16.35	16.30	16.34	17.5	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	16.26	16.35	16.33	17.5	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	16.27	16.29	16.34	17.5	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	16.30	16.29	16.34	17.5	0.0
Channel								
Frequency (MHz)								
25	Pi2 BPSK	1	1	16.32	16.36	16.28	17.5	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	16.28	16.35	16.29	17.5	0.0
Channel								
Frequency (MHz)								
15	Pi2 BPSK	1	1	16.27	16.26	16.32	17.5	0.0
Channel								
Frequency (MHz)								
10	Pi2 BPSK	1	1	16.31	16.29	16.33	17.5	0.0

**Part27Q n78\_Ant 8 DSI 3**

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)								
100	Pi2 BPSK	1	1	23.79				
100	Pi2 BPSK	1	137	23.54			25.0	0.0
100	Pi2 BPSK	1	211	23.76				
100	Pi2 BPSK	135	0	23.21			25.0	0.0
100	Pi2 BPSK	135	69	23.54			25.0	0.0
100	Pi2 BPSK	135	138	23.15			25.0	0.0
100	Pi2 BPSK	220	0	23.16				
100	QPSK	1	1	23.75				
100	QPSK	1	137	23.56			25.0	0.0
100	QPSK	1	211	23.70				
100	QPSK	135	0	23.67				
100	QPSK	135	69	23.51			25.0	0.0
100	QPSK	135	138	23.64			25.0	0.0
100	QPSK	220	0	22.53				
100	16QAM	1	1	22.52			25.0	0.0
100	16QAM	1	1	23.10			24.5	0.5
100	256QAM	1	1	21.66			22.5	2.5
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	23.72	23.74	23.73	25.0	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	23.59	23.64	23.63	25.0	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	23.65	23.64	23.61	25.0	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	23.59	23.58	23.58	25.0	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	23.63	23.64	23.63	25.0	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	23.61	23.61	23.58	25.0	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	23.60	23.68	23.66	25.0	0.0
Channel								
Frequency (MHz)								
25	Pi2 BPSK	1	1	23.61	23.61	23.66	25.0	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	23.66	23.63	23.65	25.0	0.0
Channel								
Frequency (MHz)								
15	Pi2 BPSK	1	1	23.56	23.67	23.63	25.0	0.0
Channel								
Frequency (MHz)								
10	Pi2 BPSK	1	1	23.66	23.59	23.60	25.0	0.0

**Part270 n78\_Ant 8 DSI 3**

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)								
100	Pi2 BPSK	1	1	23.69				
100	Pi2 BPSK	1	137	23.43			25.0	0.0
100	Pi2 BPSK	1	211	23.65				
100	Pi2 BPSK	135	0	23.08			25.0	0.0
100	Pi2 BPSK	135	69	23.53			25.0	0.0
100	Pi2 BPSK	135	138	23.14			25.0	0.0
100	Pi2 BPSK	220	0	23.11				
100	QPSK	1	1	23.59				
100	QPSK	1	137	23.46			25.0	0.0
100	QPSK	1	211	23.54				
100	QPSK	135	0	23.63				
100	QPSK	135	69	23.55			25.0	0.0
100	QPSK	135	138	23.50			25.0	0.0
100	QPSK	220	0	22.53				
100	16QAM	1	1	22.53			25.0	0.0
100	16QAM	1	1	22.81			24.5	0.5
100	256QAM	1	1	21.49			22.5	2.5
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	23.53	23.54	23.59	25.0	0.0
Channel								
Frequency (MHz)								
80	Pi2 BPSK	1	1	23.44	23.38	23.47	25.0	0.0
Channel								
Frequency (MHz)								
70	Pi2 BPSK	1	1	23.44	23.47	23.54	25.0	0.0
Channel								
Frequency (MHz)								
60	Pi2 BPSK	1	1	23.47	23.39	23.52	25.0	0.0
Channel								
Frequency (MHz)								
50	Pi2 BPSK	1	1	23.39	23.43	23.51	25.0	0.0
Channel								
Frequency (MHz)								
40	Pi2 BPSK	1	1	23.43	23.42	23.43	25.0	0.0
Channel								
Frequency (MHz)								
30	Pi2 BPSK	1	1	23.39	23.39	23.48	25.0	0.0
Channel								
Frequency (MHz)								
25	Pi2 BPSK	1	1	23.40	23.38	23.47	25.0	0.0
Channel								
Frequency (MHz)								
20	Pi2 BPSK	1	1	23.37	23.46	23.54	25.0	0.0
Channel								
Frequency (MHz)								
15	Pi2 BPSK	1	1	23.44	23.44	23.50	25.0	0.0
Channel								
Frequency (MHz)								
10	Pi2 BPSK	1	1	23.45	23.43	23.50	25.0	0.0



For DFT-15

n5_Ant 0 DSI 4									
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)									
20	PI2 BPSK	1	1	24.73	24.76	24.74	25.2	0.0	
20	PI2 BPSK	1	53	24.72	24.75	24.73			
20	PI2 BPSK	1	104	24.67	24.67	24.62			
20	PI2 BPSK	50	0	23.95	24.07	23.98	25.2	0.0	
20	PI2 BPSK	50	28	24.45	24.50	24.53	25.2	0.0	
20	PI2 BPSK	50	56	23.92	24.01	23.95	25.2	0.0	
20	PI2 BPSK	100	0	23.92	24.07	23.95			
20	QPSK	1	1	24.53	24.58	24.50	25.2	0.0	
20	QPSK	1	53	24.43	24.53	24.42			
20	QPSK	1	104	24.38	24.51	24.40			
20	QPSK	50	0	23.48	23.56	23.51	24.7	0.5	
20	QPSK	50	28	24.44	24.58	24.49	25.2	0.0	
20	QPSK	50	56	23.89	24.04	23.95	24.7	0.5	
20	QPSK	100	0	23.92	24.07	23.92			
20	16QAM	1	1	23.81	23.97	23.86	24.7	0.5	
20	64QAM	1	1	22.43	22.55	22.39	23.2	2.0	
20	256QAM	1	1	20.93	21.03	20.92	21.2	4.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.52	24.57	24.45	25.2	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.50	24.60	24.44	25.2	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	24.52	24.58	24.48	25.2	0.0	

n5_Ant 1 DSI 4									
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)									
20	PI2 BPSK	1	1	22.04	22.12	22.05	22.7	0.0	
20	PI2 BPSK	1	53	22.02	22.08	22.01			
20	PI2 BPSK	1	104	21.92	21.98	21.95			
20	PI2 BPSK	50	0	21.83	21.90	21.85	22.7	0.0	
20	PI2 BPSK	50	28	21.91	21.95	21.93	22.7	0.0	
20	PI2 BPSK	50	56	21.81	21.84	21.82	22.7	0.0	
20	PI2 BPSK	100	0	21.82	21.85	21.83			
20	QPSK	1	1	21.91	21.97	21.93	22.7	0.0	
20	QPSK	1	53	21.86	22.04	22.04			
20	QPSK	1	104	21.82	21.92	21.85			
20	QPSK	50	0	21.78	21.84	21.74	22.7	0.0	
20	QPSK	50	28	21.77	21.93	21.91	22.7	0.0	
20	QPSK	50	56	21.69	21.82	21.80	22.7	0.0	
20	QPSK	100	0	21.67	21.81	21.71			
20	16QAM	1	1	21.48	21.64	21.58	22.7	0.5	
20	64QAM	1	1	22.11	22.08	22.09	22.7	0.0	
20	256QAM	1	1	20.81	20.72	20.68	21.2	1.5	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	21.80	22.07	21.82	22.7	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	21.84	22.00	21.97	22.7	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	21.83	22.03	22.00	22.7	0.0	

n7_Ant 0 DSI 4									
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)									
50	PI2 BPSK	1	1	21.38	21.41	21.38	23.0	0.0	
50	PI2 BPSK	1	135	21.28	21.28	21.21			
50	PI2 BPSK	1	268	21.28	21.24	21.21			
50	PI2 BPSK	135	0	20.78	20.83	20.67	23.0	0.0	
50	PI2 BPSK	135	68	21.38	21.38	21.21	23.0	0.0	
50	PI2 BPSK	135	135	20.44	20.43	20.42	23.0	0.0	
50	PI2 BPSK	270	0	20.74	20.75	20.66			
50	QPSK	1	1	21.37	21.40	21.36	23.0	0.0	
50	QPSK	1	135	21.28	21.34	21.23			
50	QPSK	1	268	21.04	21.11	20.86			
50	QPSK	135	0	20.08	20.21	20.15	23.0	0.0	
50	QPSK	135	68	21.13	21.21	21.12	23.0	0.0	
50	QPSK	135	135	20.83	20.83	20.79	23.0	0.0	
50	QPSK	270	0	21.02	21.13	21.06			
50	16QAM	1	1	21.21	21.28	21.15	23.0	0.0	
50	64QAM	1	1	19.68	19.78	19.71	21.5	1.5	
50	256QAM	1	1	18.60	18.63	18.56	19.5	3.5	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	21.31	21.32	21.27	23.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	21.36	21.31	21.31	23.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	20.40	20.56	20.40	23.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.37	21.15	21.30	23.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	20.98	21.11	20.97	23.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	21.00	21.15	21.02	23.0	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	20.96	21.00	20.97	23.0	0.0	



n7_Ant 2 DSI 4									
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)									
50	PI2 BPSK	1	1	19.80	19.89	19.82			
50	PI2 BPSK	1	135	19.71	19.84	19.76	20.5	0.0	
50	PI2 BPSK	1	269	19.62	19.71	19.66			
50	PI2 BPSK	135	0	19.70	19.80	19.82	20.5	0.0	
50	PI2 BPSK	135	68	19.78	19.88	19.86	20.5	0.0	
50	PI2 BPSK	135	135	19.69	19.84	19.81	20.5	0.0	
50	PI2 BPSK	220	0	19.67	19.80	19.76			
50	QPSK	1	1	19.83	19.73	19.84			
50	QPSK	1	135	19.68	19.77	19.69	20.5	0.0	
50	QPSK	1	269	19.40	19.61	19.57			
50	QPSK	135	0	19.69	19.81	19.77	20.5	0.0	
50	QPSK	135	68	19.56	19.74	19.65	20.5	0.0	
50	QPSK	135	135	19.67	19.86	19.85	20.5	0.0	
50	QPSK	220	0	19.63	19.78	19.71			
50	16QAM	1	1	19.30	19.46	19.43	20.5	0.0	
50	16QAM	1	1	19.43	19.53	19.42	20.5	0.0	
50	16QAM	1	1	18.95	19.12	19.06	20.5	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	19.64	19.74	19.68	20.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	19.78	19.75	19.76	20.5	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	19.68	19.76	19.71	20.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	19.84	19.83	19.74	20.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	19.74	19.79	19.70	20.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	19.73	19.81	19.77	20.5	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	19.73	19.77	19.69	20.5	0.0	

n7_Ant 3 DSI 4									
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)									
50	PI2 BPSK	1	1	16.98	17.12	16.92			
50	PI2 BPSK	1	135	16.95	17.01	16.90	17.7	0.0	
50	PI2 BPSK	1	269	16.94	16.96	16.95			
50	PI2 BPSK	135	0	16.83	16.85	16.81	17.7	0.0	
50	PI2 BPSK	135	68	17.02	17.07	16.98	17.7	0.0	
50	PI2 BPSK	135	135	17.00	17.05	16.90	17.7	0.0	
50	PI2 BPSK	220	0	17.03	17.11	16.92			
50	QPSK	1	1	16.77	16.77	16.63			
50	QPSK	1	135	16.63	16.59	16.40	17.7	0.0	
50	QPSK	1	269	16.67	16.76	16.54			
50	QPSK	135	0	16.81	16.86	16.73	17.7	0.0	
50	QPSK	135	68	16.95	16.96	16.82	17.7	0.0	
50	QPSK	135	135	16.92	17.03	16.82	17.7	0.0	
50	QPSK	220	0	16.98	17.02	16.90			
50	16QAM	1	1	16.64	16.66	16.55	17.7	0.0	
50	16QAM	1	1	16.27	16.38	16.21	17.7	0.0	
50	16QAM	1	1	16.78	16.81	16.70	17.7	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	16.92	16.97	16.77	17.7	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	16.93	16.97	16.83	17.7	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	16.88	17.07	16.78	17.7	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	16.83	17.07	16.78	17.7	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	16.92	17.05	16.80	17.7	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	16.91	16.96	16.77	17.7	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	16.82	16.99	16.84	17.7	0.0	

n7_Ant 5 DSI 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									
Frequency (MHz)									
50	PI2 BPSK	1	1	14.90	15.01	14.95			
50	PI2 BPSK	1	135	14.85	14.92	14.89	16.0	0.0	
50	PI2 BPSK	1	269	14.80	14.91	14.90			
50	PI2 BPSK	135	0	14.80	14.88	14.85	16.0	0.0	
50	PI2 BPSK	135	68	14.85	14.98	14.90	16.0	0.0	
50	PI2 BPSK	135	135	14.84	14.96	14.87	16.0	0.0	
50	PI2 BPSK	220	0	14.82	14.95	14.93			
50	QPSK	1	1	14.84	14.82	14.74			
50	QPSK	1	135	14.49	14.87	14.86	16.0	0.0	
50	QPSK	1	269	14.63	14.79	14.79			
50	QPSK	135	0	14.61	14.78	14.76	16.0	0.0	
50	QPSK	135	68	14.76	14.92	14.83	16.0	0.0	
50	QPSK	135	135	14.89	14.99	14.93	16.0	0.0	
50	QPSK	220	0	14.78	14.94	14.85			
50	16QAM	1	1	14.63	14.77	14.72	16.0	0.0	
50	16QAM	1	1	14.32	14.46	14.45	16.0	0.0	
50	16QAM	1	1	14.72	14.92	14.91	16.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	14.75	14.93	14.87	16.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	14.85	14.93	14.84	16.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	14.77	14.86	14.86	16.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	14.84	14.89	14.90	16.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	14.83	14.89	14.90	16.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	14.80	14.96	14.89	16.0	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	14.78	14.94	14.89	16.0	0.0	



For DFT-30

n38_Ant 0 DSI 4									
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)									
40	PI2 BPSK	1	1	20.75	20.76	20.74			
40	PI2 BPSK	1	53	20.72	20.73	20.68	22.0	0.0	
40	PI2 BPSK	1	104	20.54	20.56	20.52			
40	PI2 BPSK	50	0	20.62	20.66	20.57	22.0	0.0	
40	PI2 BPSK	50	28	20.63	20.70	20.59	22.0	0.0	
40	PI2 BPSK	50	56	20.52	20.53	20.47	22.0	0.0	
40	PI2 BPSK	100	0	20.58	20.61	20.52			
40	QPSK	1	1	20.62	20.72	20.53			
40	QPSK	1	53	20.54	20.56	20.57	22.0	0.0	
40	QPSK	1	104	20.44	20.52	20.40			
40	QPSK	50	0	20.51	20.56	20.44			
40	QPSK	50	28	20.50	20.61	20.40	22.0	0.0	
40	QPSK	50	56	20.46	20.48	20.27			
40	QPSK	100	0	20.54	20.58	20.38	22.0	0.0	
40	16QAM	1	1	20.41	20.47	20.53	22.0	0.0	
40	56QAM	1	1	18.97	20.06	19.95	21.5	0.5	
40	256QAM	1	1	18.64	18.75	18.64	19.5	2.5	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	20.59	20.62	20.65	22.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	20.66	20.68	20.59	22.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	20.69	20.68	20.62	22.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	20.55	20.53	20.62	22.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	20.63	20.70	20.68	22.0	0.0	

n38_Ant 2 DSI 4									
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)									
40	PI2 BPSK	1	1	19.90	19.92	19.91			
40	PI2 BPSK	1	53	19.85	19.87	19.84	20.5	0.0	
40	PI2 BPSK	1	104	19.70	19.75	19.72			
40	PI2 BPSK	50	0	19.68	19.72	19.71	20.5	0.0	
40	PI2 BPSK	50	28	19.70	19.79	19.73	20.5	0.0	
40	PI2 BPSK	50	56	19.60	19.69	19.63	20.5	0.0	
40	PI2 BPSK	100	0	19.67	19.73	19.72			
40	QPSK	1	1	19.73	19.88	19.78			
40	QPSK	1	53	19.66	19.62	19.74	20.5	0.0	
40	QPSK	1	104	19.55	19.68	19.68			
40	QPSK	50	0	19.49	19.62	19.56			
40	QPSK	50	28	19.55	19.71	19.65	20.5	0.0	
40	QPSK	50	56	19.44	19.59	19.59			
40	QPSK	100	0	19.58	19.69	19.66	20.5	0.0	
40	16QAM	1	1	19.34	19.54	19.52	20.5	0.0	
40	56QAM	1	1	19.48	19.62	19.54	20.5	0.0	
40	256QAM	1	1	19.58	19.74	19.72	20.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	19.81	19.81	19.76	20.5	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	19.76	19.86	19.78	20.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	19.82	19.76	19.76	20.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	19.73	19.87	19.83	20.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	19.84	19.70	19.72	20.5	0.0	

n38_Ant 3 DSI 4									
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)									
40	PI2 BPSK	1	1	18.54	18.65	18.57			
40	PI2 BPSK	1	53	18.52	18.61	18.53	18.7	0.0	
40	PI2 BPSK	1	104	18.50	18.63	18.50			
40	PI2 BPSK	50	0	18.42	18.49	18.47	18.7	0.0	
40	PI2 BPSK	50	28	18.54	18.60	18.47	18.7	0.0	
40	PI2 BPSK	50	56	18.45	18.49	18.47	18.7	0.0	
40	PI2 BPSK	100	0	18.46	18.49	18.47			
40	QPSK	1	1	18.41	18.53	18.44			
40	QPSK	1	53	18.36	18.51	18.53	18.7	0.0	
40	QPSK	1	104	18.32	18.52	18.50			
40	QPSK	50	0	18.36	18.46	18.37			
40	QPSK	50	28	18.37	18.56	18.52	18.7	0.0	
40	QPSK	50	56	18.33	18.45	18.38			
40	QPSK	100	0	18.24	18.44	18.36	18.7	0.0	
40	16QAM	1	1	18.16	18.31	18.25	18.7	0.0	
40	56QAM	1	1	18.17	18.35	18.27	18.7	0.0	
40	256QAM	1	1	18.26	18.39	18.33	18.7	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	18.42	18.54	18.48	18.7	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	18.42	18.49	18.47	18.7	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	18.45	18.53	18.52	18.7	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	18.45	18.55	18.53	18.7	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	18.42	18.52	18.48	18.7	0.0	



n38_Ant 5 DSI 4									
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)				51894	51893	51898			
				2590.02	2595	2599.98			
40	PI2 BPSK	1	1	14.85	15.06	14.92			
40	PI2 BPSK	1	53	14.76	14.90	14.92	16.0	0.0	
40	PI2 BPSK	1	104	14.76	14.85	14.79			
Channel									
Frequency (MHz)				51900	51899	51905			
40	PI2 BPSK	50	0	14.78	14.83	14.81	16.0	0.0	
40	PI2 BPSK	50	28	14.79	14.85	14.92	16.0	0.0	
40	PI2 BPSK	50	65	14.80	14.74	14.71	16.0	0.0	
40	PI2 BPSK	100	0	14.74	14.77	14.75			
Channel									
Frequency (MHz)				51906	51905	51911			
40	QPSK	1	1	14.73	14.81	14.67			
40	QPSK	1	63	14.77	14.86	14.78	16.0	0.0	
40	QPSK	1	104	14.63	14.69	14.60			
40	QPSK	50	0	14.67	14.79	14.85			
40	QPSK	50	28	14.63	14.77	14.64	16.0	0.0	
40	QPSK	50	66	14.64	14.72	14.59			
40	QPSK	100	0	14.70	14.77	14.71	16.0	0.0	
40	16QAM	1	1	14.58	14.73	14.53	16.0	0.0	
40	56QAM	1	1	14.32	14.44	14.28	16.0	0.0	
40	256QAM	1	1	14.81	14.92	14.77	16.0	0.0	
Channel									
Frequency (MHz)				51912	51910	51916	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51918	51917	51923	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51924	51923	51929	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51930	51929	51935	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51936	51935	51941	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51942	51941	51947	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51948	51947	51953	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51954	51953	51959	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51960	51959	51965	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51966	51965	51971	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51972	51971	51977	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51978	51977	51983	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51984	51983	51989	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51990	51989	51995	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				51996	51995	52001	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52002	51999	52006	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52008	52007	52013	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52014	52013	52019	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52020	52019	52025	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52026	52025	52031	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52032	52031	52037	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52038	52037	52043	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52044	52043	52049	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52050	52049	52055	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52056	52055	52061	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52062	52061	52067	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52068	52067	52073	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52074	52073	52079	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52080	52079	52085	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52086	52085	52091	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52092	52091	52097	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52098	52097	52103	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52104	52103	52109	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52110	52109	52115	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52116	52115	52121	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52122	52121	52127	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52128	52127	52133	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52134	52133	52139	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52140	52139	52145	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52146	52145	52151	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52152	52151	52157	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52158	52157	52163	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52164	52163	52169	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52170	52169	52175	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52176	52175	52181	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52182	52181	52187	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52188	52187	52193	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52194	52193	52199	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52200	52199	52205	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52206	52205	52211	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52212	52211	52217	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52218	52217	52223	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52224	52223	52229	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52230	52229	52235	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52236	52235	52241	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52242	52241	52247	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52248	52247	52253	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52254	52253	52259	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52260	52259	52265	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52266	52265	52271	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52272	52271	52277	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52278	52277	52283	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99			
Channel									
Frequency (MHz)				52284	52283	52289	Tune-up limit (dBm)	MPR (dB)	
				2595.01	2595	2595.99		</	



n41_Ant 3 DSI 4									
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	17.95	18.03	17.87			
100	PI2 BPSK	1	137	17.80	17.84	17.86	18.2	0.0	
100	PI2 BPSK	1	271	17.88	17.90	17.86			
100	PI2 BPSK	135	0	17.82	17.84	17.80	18.2	0.0	
100	PI2 BPSK	135	69	17.92	17.99	17.89	18.2	0.0	
100	PI2 BPSK	135	135	17.91	17.96	17.86	18.2	0.0	
100	PI2 BPSK	270	0	17.82	17.84	17.80			
100	QPSK	1	1	17.62	17.70	17.69			
100	QPSK	1	137	17.94	17.97	17.77	18.2	0.0	
100	QPSK	1	271	17.73	17.84	17.84			
100	QPSK	135	0	17.72	17.82	17.72			
100	QPSK	135	69	17.83	17.91	17.80	18.2	0.0	
100	QPSK	135	135	17.73	17.76	17.58			
100	QPSK	270	0	17.73	17.81	17.66	18.2	0.0	
100	16QAM	1	1	17.41	17.41	17.51	18.2	0.0	
100	56QAM	1	1	17.41	17.46	17.06	18.2	0.0	
100	256QAM	1	1	18.01	18.02	17.89	18.2	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	17.85	17.96	17.70	18.2	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	17.87	17.92	17.71	18.2	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	17.86	17.91	17.80	18.2	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	17.87	17.92	17.71	18.2	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	17.83	17.87	17.74	18.2	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.83	17.85	17.72	18.2	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	17.81	17.88	17.73	18.2	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	17.83	17.85	17.78	18.2	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	17.88	17.94	17.71	18.2	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	17.82	17.89	17.74	18.2	0.0	

n41_Ant 5 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.17	15.19	15.12			
100	PI2 BPSK	1	137	15.09	15.10	15.11	16.0	0.0	
100	PI2 BPSK	1	271	15.08	15.13	15.10			
100	PI2 BPSK	135	0	15.02	15.12	15.08	16.0	0.0	
100	PI2 BPSK	135	69	15.10	15.14	15.12	16.0	0.0	
100	PI2 BPSK	135	135	15.00	15.06	15.02	16.0	0.0	
100	PI2 BPSK	270	0	15.06	15.12	15.10			
100	QPSK	1	1	14.73	14.93	14.93			
100	QPSK	1	137	15.00	15.10	15.07	16.0	0.0	
100	QPSK	1	271	14.74	14.94	14.93			
100	QPSK	135	0	14.87	15.13	15.08			
100	QPSK	135	69	15.08	15.15	15.10	16.0	0.0	
100	QPSK	135	135	14.83	15.02	14.99			
100	QPSK	270	0	14.99	15.10	15.11	16.0	0.0	
100	16QAM	1	1	14.84	14.84	14.84	16.0	0.0	
100	56QAM	1	1	14.41	14.52	14.46	16.0	0.0	
100	256QAM	1	1	14.70	14.87	14.89	16.0	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	15.00	15.03	15.00	16.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	14.98	15.14	15.06	16.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	14.99	15.10	14.97	16.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	14.92	15.03	15.02	16.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	14.92	15.06	15.00	16.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	15.00	15.00	15.07	16.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	14.97	15.13	15.02	16.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	14.98	15.11	15.01	16.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	14.98	15.00	15.04	16.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	14.99	15.13	15.06	16.0	0.0	

Par27Q n77_Ant 4 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI2 BPSK	1	1	15.09					
100	PI2 BPSK	1	137	15.06			16.2	0.0	
100	PI2 BPSK	1	271	15.72					
100	PI2 BPSK	135	0	15.93			16.2	0.0	
100	PI2 BPSK	135	69	15.95			16.2	0.0	
100	PI2 BPSK	135	135	15.81			16.2	0.0	
100	PI2 BPSK	270	0	15.98					
100	QPSK	1	1	15.87					
100	QPSK	1	137	15.97			16.2	0.0	
100	QPSK	1	271	15.89					
100	QPSK	135	0	15.96					
100	QPSK	135	69	15.93			16.2	0.0	
100	QPSK	135	135	15.80					
100	QPSK	270	0	15.91			16.2	0.0	
100	16QAM	1	1	15.86			16.2	0.0	
100	56QAM	1	1	15.86			16.2	0.0	
100	256QAM	1	1	15.70			16.2	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	15.75	15.82	15.73	16.2	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	15.69	15.77	15.61	16.2	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	15.61	15.76	15.59	16.2	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	15.65	15.69	15.58	16.2	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	15.67	15.63	15.62	16.2	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	15.70	15.74	15.59	16.2	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	15.64	15.66	15.63	16.2	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	15.70	15.72	15.68	16.2	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	15.69	15.67	15.68	16.2	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	15.66	15.70	15.66	16.2	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	15.60	15.71	15.61	16.2	0.0	



### Par270 n77\_Ant 4 DSI 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	15.79	15.85	15.82		
100	P12 BPSK	1	127	15.73	15.84	15.78	16.2	0.0
100	P12 BPSK	1	271	15.65	15.71	15.68		
100	P12 BPSK	135	0	15.70	15.72	15.71	16.2	0.0
100	P12 BPSK	135	66	15.79	15.84	15.72	16.2	0.0
100	P12 BPSK	135	138	15.68	15.82	15.70	16.2	0.0
100	P12 BPSK	270	0	15.66	15.83	15.66		
100	QPSK	1	1	15.63	15.82	15.76		
100	QPSK	1	137	15.65	15.80	15.79	16.2	0.0
100	QPSK	1	271	15.48	15.64	15.56		
100	QPSK	135	0	15.63	15.82	15.77		
100	QPSK	135	66	15.69	15.75	15.72	16.2	0.0
100	QPSK	135	138	15.60	15.81	15.81		
100	QPSK	270	0	15.64	15.83	15.74	16.2	0.0
100	16QAM	1	1	15.45	15.54	15.42	16.2	0.0
100	16QAM	1	1	15.38	15.54	15.45	16.2	0.0
100	256QAM	1	1	15.54	15.73	15.73	16.2	0.0
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	15.63	15.76	15.72	16.2	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	15.65	15.74	15.66	16.2	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	15.63	15.72	15.68	16.2	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	15.72	15.77	15.75	16.2	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	15.74	15.77	15.67	16.2	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	15.69	15.71	15.69	16.2	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	15.71	15.71	15.68	16.2	0.0
Channel								
Frequency (MHz)								
25	P12 BPSK	1	1	15.68	15.71	15.75	16.2	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	15.65	15.70	15.71	16.2	0.0
Channel								
Frequency (MHz)								
15	P12 BPSK	1	1	15.68	15.71	15.66	16.2	0.0
Channel								
Frequency (MHz)								
10	P12 BPSK	1	1	15.65	15.76	15.70	16.2	0.0

### Par27Q n77\_Ant 6 DSI 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1		3500.01					
100	P12 BPSK	1	1		16.23		17.5	0.0		
100	P12 BPSK	1	127		16.24					
100	P12 BPSK	1	271		15.97					
100	P12 BPSK	135	0		16.12		17.5	0.0		
100	P12 BPSK	135	66		16.15		17.5	0.0		
100	P12 BPSK	135	138		16.08					
100	P12 BPSK	270	0		16.10		17.5	0.0		
100	QPSK	1	1		16.13					
100	QPSK	1	137		16.21		17.5	0.0		
100	QPSK	1	271		15.97					
100	QPSK	135	0		16.08					
100	QPSK	135	66		16.16		17.5	0.0		
100	QPSK	135	138		16.08					
100	QPSK	270	0		16.14		17.5	0.0		
100	16QAM	1	1		15.98		17.5	0.0		
100	16QAM	1	1		15.92		17.5	0.0		
100	256QAM	1	1		16.02		17.5	0.0		
Channel										
Frequency (MHz)										
90	P12 BPSK	1	1		16.18		16.13	17.5	0.0	
Channel										
Frequency (MHz)										
80	P12 BPSK	1	1		16.13		16.01	17.5	0.0	
Channel										
Frequency (MHz)										
70	P12 BPSK	1	1		16.08		16.04	17.5	0.0	
Channel										
Frequency (MHz)										
60	P12 BPSK	1	1		16.06		16.04	17.5	0.0	
Channel										
Frequency (MHz)										
50	P12 BPSK	1	1		16.12		16.09	17.5	0.0	
Channel										
Frequency (MHz)										
40	P12 BPSK	1	1		16.13		16.01	17.5	0.0	
Channel										
Frequency (MHz)										
30	P12 BPSK	1	1		16.03		16.04	17.5	0.0	
Channel										
Frequency (MHz)										
25	P12 BPSK	1	1		16.02		16.07	17.5	0.0	
Channel										
Frequency (MHz)										
20	P12 BPSK	1	1		16.03		16.07	17.5	0.0	
Channel										
Frequency (MHz)										
15	P12 BPSK	1	1		16.05		16.13	16.01	17.5	0.0
Channel										
Frequency (MHz)										
10	P12 BPSK	1	1		16.05		16.07	16.04	17.5	0.0

### Par270 n77\_Ant 6 DSI 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up Int (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	16.05	16.13	16.10		
100	P12 BPSK	1	127	15.98	16.05	15.99	17.5	0.0
100	P12 BPSK	1	271	15.90	15.98	15.92		
100	P12 BPSK	135	0	15.90	16.06	15.97	17.5	0.0
100	P12 BPSK	135	66	16.02	16.10	16.08	17.5	0.0
100	P12 BPSK	135	138	15.98	16.02	16.01	17.5	0.0
100	P12 BPSK	270	0	15.95	16.11	16.01		
100	QPSK	1	1	15.85	15.96	15.91		
100	QPSK	1	137	15.87	16.03	16.02	17.5	0.0
100	QPSK	1	271	15.74	15.94	15.90		
100	QPSK	135	0	15.85	16.08	16.02		
100	QPSK	135	66	15.92	15.98	15.99	17.5	0.0
100	QPSK	135	138	15.86	16.04	16.02		
100	QPSK	270	0	15.85	16.08	16.08	17.5	0.0
100	16QAM	1	1	15.81	16.07	16.05	17.5	0.0
100	16QAM	1	1	15.85	15.81	15.81	17.5	0.0
100	256QAM	1	1	15.88	16.09	16.07	17.5	0.0
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	15.99	16.07	16.02	17.5	0.0
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	15.92	16.06	16.05	17.5	0.0
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	15.92	16.06	15.99	17.5	0.0
Channel								
Frequency (MHz)								
60	P12 BPSK	1	1	15.99	16.02	16.05	17.5	0.0
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	15.97	16.00	16.02	17.5	0.0
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	15.94	16.07	16.02	17.5	0.0
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	16.00	16.09	16.05	17.5	0.0
Channel								
Frequency (MHz)								
25	P12 BPSK	1	1	15.94	16.01	16.01	17.5	0.0
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	15.95	16.01	15.99	17.5	0.0
Channel								
Frequency (MHz)								
15	P12 BPSK	1	1	15.94	16.00	16.01	17.5	0.0
Channel								
Frequency (MHz)								
10	P12 BPSK	1	1	15.80	15.99	15.94	17.5	0.0

### Par

BW (MHz)	Modulation	RB Size
Channel		
Frequency (MHz)		
100	P12 BPSK	1
100	P12 BPSK	1
100	P12 BPSK	1
100	P12 BPSK	135
100	P12 BPSK	135
100	P12 BPSK	135
100	P12 BPSK	270
100	QPSK	1
100	QPSK	1
100	QPSK	1
100	QPSK	135
100	QPSK	135
100	QPSK	135
100	QPSK	270
100	16QAM	1
100	16QAM	1
100	256QAM	1
Channel		
Frequency (MHz)		
90	P12 BPSK	1
Channel		
Frequency (MHz)		
80	P12 BPSK	1
Channel		
Frequency (MHz)		
70	P12 BPSK	1
Channel		
Frequency (MHz)		
60	P12 BPSK	1
Channel		
Frequency (MHz)		
50	P12 BPSK	1
Channel		
Frequency (MHz)		
40	P12 BPSK	1
Channel		
Frequency (MHz)		
30	P12 BPSK	1
Channel		
Frequency (MHz)		
25	P12 BPSK	1
Channel		
Frequency (MHz)		
20	P12 BPSK	1
Channel		
Frequency (MHz)		
15	P12 BPSK	1
Channel		
Frequency (MHz)		
10	P12 BPSK	1



### 27Q n77\_Ant 7 DSI 4

RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
	Channel				
	Frequency (MHz)				
	3600.01	3600.01	3600.01		
1	14.36				
137	14.27			15.5	0.0
271	14.22				
0	14.20			15.5	0.0
66	14.18			15.5	0.0
138	14.18			15.5	0.0
0	14.26				
1	14.28			15.5	0.0
137	14.28				
271	14.01				
0	14.28			15.5	0.0
66	14.28			15.5	0.0
138	14.08				
0	14.23			15.5	0.0
1	14.06			15.5	0.0
1	14.06			15.5	0.0
1	14.30			15.5	0.0
	633000	633334	633666	Tune-up limit (dBm)	MPR (dB)
	3465	3600.01	3604.86		
1	14.32	14.36	14.33	15.5	0.0
	632068	633334	634000	Tune-up limit (dBm)	MPR (dB)
	3460.00	3600.01	3610		
1	14.16	14.30	14.22	15.5	0.0
	632334	633334	634332	Tune-up limit (dBm)	MPR (dB)
	3478.01	3600.01	3614.86		
1	14.26	14.18	14.18	15.5	0.0
	632000	633334	634666	Tune-up limit (dBm)	MPR (dB)
	3472.02	3600.01	3626		
1	14.17	14.19	14.29	15.5	0.0
	631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
	3475.02	3600.01	3626		
1	14.10	14.22	14.24	15.5	0.0
	631334	633334	635332	Tune-up limit (dBm)	MPR (dB)
	3470.01	3600.01	3629.88		
1	14.24	14.21	14.20	15.5	0.0
	631000	633334	635666	Tune-up limit (dBm)	MPR (dB)
	3465	3600.01	3634.86		
1	14.16	14.20	14.22	15.5	0.0
	630504	633334	635932	Tune-up limit (dBm)	MPR (dB)
	3462.01	3600.01	3637.48		
1	14.17	14.28	14.26	15.5	0.0
	630000	633334	636000	Tune-up limit (dBm)	MPR (dB)
	3460.02	3600.01	3640		
1	14.24	14.20	14.20	15.5	0.0
	630500	633334	636166	Tune-up limit (dBm)	MPR (dB)
	3457.5	3600.01	3642.49		
1	14.23	14.30	14.22	15.5	0.0
	630334	633334	636332	Tune-up limit (dBm)	MPR (dB)
	3455.01	3600.01	3644.86		
1	14.27	14.20	14.26	15.5	0.0

### Par270 n77\_Ant 7 DSI 4

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	13.95	14.04	13.91		
100	PI2 BPSK	1	137	13.92	14.00	13.88	15.5	0.0
100	PI2 BPSK	1	271	13.92	13.98	13.90		
100	PI2 BPSK	135	0	13.90	13.92	13.88	15.5	0.0
100	PI2 BPSK	135	69	13.93	14.02	13.91	15.5	0.0
100	PI2 BPSK	135	138	13.92	13.96	13.90	15.5	0.0
100	PI2 BPSK	270	0	13.95	14.01	13.92	15.5	0.0
100	QPSK	1	1	13.99	14.01	13.87		
100	QPSK	1	137	13.96	14.03	13.83	15.5	0.0
100	QPSK	1	271	13.68	13.73	13.61		
100	QPSK	135	0	13.91	14.02	13.88	15.5	0.0
100	QPSK	135	69	13.95	14.00	13.84	15.5	0.0
100	QPSK	135	138	13.95	13.99	13.79	15.5	0.0
100	QPSK	270	0	13.96	14.02	13.82	15.5	0.0
100	8QAM	1	1	13.87	13.77	13.69	15.5	0.0
100	8QAM	1	1	13.72	13.81	13.67	15.5	0.0
100	256QAM	1	1	13.91	13.99	13.83	15.5	0.0
Channel								
Frequency (MHz)								
				64668	65600	66232	Tune-up limit (dBm)	MPR (dB)
				3743.02	3840	3934.86		
90	PI2 BPSK	1	1	13.80	13.95	13.84	15.5	0.0
Channel								
Frequency (MHz)								
				64334	65600	66266	Tune-up limit (dBm)	MPR (dB)
				3740.01	3840	3938.99		
80	PI2 BPSK	1	1	13.89	13.93	13.83	15.5	0.0
Channel								
Frequency (MHz)								
				64900	65600	66300	Tune-up limit (dBm)	MPR (dB)
				3745.01	3840	3939.99		
70	PI2 BPSK	1	1	13.83	13.93	13.84	15.5	0.0
Channel								
Frequency (MHz)								
				64668	65600	66332	Tune-up limit (dBm)	MPR (dB)
				3743.02	3840	3939.99		
60	PI2 BPSK	1	1	13.11	13.06	13.74	15.5	0.0
Channel								
Frequency (MHz)								
				64334	65600	66366	Tune-up limit (dBm)	MPR (dB)
				3745.01	3840	3942.99		
50	PI2 BPSK	1	1	13.28	13.19	13.03	15.5	0.0
Channel								
Frequency (MHz)								
				64900	65600	66400	Tune-up limit (dBm)	MPR (dB)
				3750	3840	3960		
40	PI2 BPSK	1	1	13.19	13.14	13.05	15.5	0.0
Channel								
Frequency (MHz)								
				64334	65600	66432	Tune-up limit (dBm)	MPR (dB)
				3745.02	3840	3964.86		
30	PI2 BPSK	1	1	13.08	13.09	13.70	15.5	0.0
Channel								
Frequency (MHz)								
				64668	65600	66500	Tune-up limit (dBm)	MPR (dB)
				3745.01	3840	3969.99		
25	PI2 BPSK	1	1	13.88	13.90	13.84	15.5	0.0
Channel								
Frequency (MHz)								
				64334	65600	66566	Tune-up limit (dBm)	MPR (dB)
				3740.01	3840	3969.99		
20	PI2 BPSK	1	1	13.88	13.96	13.77	15.5	0.0
Channel								
Frequency (MHz)								
				64168	65600	66582	Tune-up limit (dBm)	MPR (dB)
				3707.52	3840	3972.49		
15	PI2 BPSK	1	1	13.82	13.93	13.78	15.5	0.0
Channel								
Frequency (MHz)								
				64700	65600	66600	Tune-up limit (dBm)	MPR (dB)
				3705	3840	3975		
10	PI2 BPSK	1	1	13.84	13.89	13.84	15.5	0.0

### Par27Q n77\_Ant 8 DSI 4

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)								
				3800.01	3800.01	3800.01		
100	PI2 BPSK	1	1	15.47				
100	PI2 BPSK	1	137	15.42			16.2	0.0
100	PI2 BPSK	1	271	15.14				
100	PI2 BPSK	135	0	15.42			16.2	0.0
100	PI2 BPSK	135	69	15.43			16.2	0.0
100	PI2 BPSK	135	138	15.29			16.2	0.0
100	PI2 BPSK	270	0	15.21			16.2	0.0
100	QPSK	1	1	15.37				
100	QPSK	1	137	15.45			16.2	0.0
100	QPSK	1	271	15.14				
100	QPSK	135	0	15.42			16.2	0.0
100	QPSK	135	69	15.37			16.2	0.0
100	QPSK	135	138	15.22			16.2	0.0
100	QPSK	270	0	15.34			16.2	0.0
100	8QAM	1	1	15.17			16.2	0.0
100	8QAM	1	1	15.29			16.2	0.0
100	256QAM	1	1	15.20			16.2	0.0
Channel								
Frequency (MHz)								
				633000	633334	633666	Tune-up limit (dBm)	MPR (dB)
				3465	3600.01	3604.86		
90	PI2 BPSK	1	1	15.40	15.43	15.39	16.2	0.0
Channel								
Frequency (MHz)								
				632068	633334	634000	Tune-up limit (dBm)	MPR (dB)
				3460.00	3600.01	3610		
80	PI2 BPSK	1	1	15.33	15.29	15.34	16.2	0.0
Channel								
Frequency (MHz)								
				632334	633334	634332	Tune-up limit (dBm)	MPR (dB)
				3460.01	3600.01	3614.86		
70	PI2 BPSK	1	1	15.28	15.30	15.31	16.2	0.0
Channel								
Frequency (MHz)								
				632000	633334	634666	Tune-up limit (dBm)	MPR (dB)
				3476.02	3600.01	3626		
60	PI2 BPSK	1	1	15.31	15.30	15.31	16.2	0.0
Channel								
Frequency (MHz)								
				631668	633334	635000	Tune-up limit (dBm)	MPR (dB)
				3476.02	3600.01	3626		
50	PI2 BPSK	1	1	15.25	15.30	15.31	16.2	0.0
Channel								
Frequency (MHz)								
				631334	633334	635332	Tune-up limit (dBm)	MPR (dB)
				3470.01	3600.01	3629.88		
40	PI2 BPSK	1	1	15.32	15.32	15.32	16.2	0.0
Channel								
Frequency (MHz)								
				631000	633334	635666	Tune-up limit (dBm)	MPR (dB)
				3465	3600.01	3634.86		
30	PI2 BPSK	1	1	15.33	15.34	15.27	16.2	0.0
Channel								
Frequency (MHz)								
				630504	633334	635932	Tune-up limit (dBm)	MPR (dB)
				3462.01	3600.01	3637.48		
25	PI2 BPSK	1	1	15.27	15.38	15.26	16.2	0.0
Channel								
Frequency (MHz)								
				630000	633334	636000	Tune-up limit	



### Par270 n77\_Ant 4 DSI 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.12	15.21	15.18		
100	PI2 BPSK	1	137	15.05	15.13	15.10		
100	PI2 BPSK	1	271	15.01	15.12	15.08	16.2	0.0
100	PI2 BPSK	135	0	15.00	15.08	15.02	16.2	0.0
100	PI2 BPSK	135	69	15.08	15.13	15.10	16.2	0.0
100	PI2 BPSK	135	133	14.96	15.10	15.00	16.2	0.0
100	PI2 BPSK	270	0	14.98	15.07	15.01		
100	QPSK	1	1	14.96	15.08	14.98		
100	QPSK	1	137	14.97	15.07	15.04		
100	QPSK	1	271	14.82	14.96	14.89	16.2	0.0
100	QPSK	135	0	14.93	15.08	15.08		
100	QPSK	135	69	14.99	15.16	15.10		
100	QPSK	135	133	14.89	15.07	14.97	16.2	0.0
100	QPSK	270	0	14.93	15.14	15.09	16.2	0.0
100	16QAM	1	1	14.99	14.99	14.91	16.2	0.0
100	56QAM	1	1	14.69	14.89	14.79	16.2	0.0
100	256QAM	1	1	14.68	14.82	14.79	16.2	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.06	15.13	15.11	16.2	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.05	15.09	15.04	16.2	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	15.02	15.05	15.07	16.2	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	15.05	15.16	15.07	16.2	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	15.01	15.14	15.09	16.2	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.01	15.14	15.09	16.2	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	14.99	15.14	15.02	16.2	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	15.03	15.14	15.09	16.2	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	15.01	15.07	15.07	16.2	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	15.06	15.14	15.05	16.2	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	15.05	15.05	15.06	16.2	0.0

### Part27Q n78\_Ant 4 DSI 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.48				
100	PI2 BPSK	1	137	15.32			16.0	0.0
100	PI2 BPSK	1	271	15.16			16.0	0.0
100	PI2 BPSK	135	0	15.44			16.0	0.0
100	PI2 BPSK	135	69	15.46			16.0	0.0
100	PI2 BPSK	135	138	15.26			16.0	0.0
100	PI2 BPSK	270	0	15.39			16.0	0.0
100	QPSK	1	1	15.11			16.0	0.0
100	QPSK	1	137	15.06			16.0	0.0
100	QPSK	1	271	15.14			16.0	0.0
100	QPSK	135	0	15.42			16.0	0.0
100	QPSK	135	69	15.37			16.0	0.0
100	QPSK	135	138	15.22			16.0	0.0
100	QPSK	270	0	15.32			16.0	0.0
100	16QAM	1	1	15.09			16.0	0.0
100	56QAM	1	1	15.15			16.0	0.0
100	256QAM	1	1	15.45			16.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.40	15.42	15.35	16.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.34	15.28	15.20	16.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	15.29	15.34	15.28	16.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	15.29	15.35	15.22	16.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	15.20	15.27	15.23	16.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.32	15.20	15.23	16.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	15.34	15.20	15.24	16.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	15.32	15.30	15.23	16.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	15.27	15.31	15.21	16.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	15.30	15.35	15.21	16.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	15.20	15.31	15.20	16.0	0.0

### Part270 n78\_Ant 4 DSI 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up Int. (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.18				
100	PI2 BPSK	1	137	15.11			16.0	0.0
100	PI2 BPSK	1	271	15.04			16.0	0.0
100	PI2 BPSK	135	0	15.13			16.0	0.0
100	PI2 BPSK	135	69	15.14			16.0	0.0
100	PI2 BPSK	135	138	15.11			16.0	0.0
100	PI2 BPSK	270	0	15.12			16.0	0.0
100	QPSK	1	1	14.95			16.0	0.0
100	QPSK	1	137	15.13			16.0	0.0
100	QPSK	1	271	15.03			16.0	0.0
100	QPSK	135	0	15.14			16.0	0.0
100	QPSK	135	69	15.15			16.0	0.0
100	QPSK	135	138	15.09			16.0	0.0
100	QPSK	270	0	15.13			16.0	0.0
100	16QAM	1	1	14.99			16.0	0.0
100	56QAM	1	1	14.78			16.0	0.0
100	256QAM	1	1	14.85			16.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.10	15.12	15.05	16.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.04	14.96	14.95	16.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	14.96	14.97	14.99	16.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	14.98	15.07	14.91	16.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	15.00	15.07	14.97	16.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.03	14.99	14.99	16.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	14.99	15.02	14.92	16.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	14.99	15.01	14.90	16.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	14.94	14.97	14.97	16.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	14.97	14.99	14.92	16.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	14.98	15.00	14.93	16.0	0.0



### Part27Q n78\_Ant 6 DSI 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up Int (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.43				
100	PI2 BPSK	1	137	16.46			17.5	0.0
100	PI2 BPSK	1	271	16.38				
100	PI2 BPSK	135	0	16.52			17.5	0.0
100	PI2 BPSK	135	69	16.36			17.5	0.0
100	PI2 BPSK	135	138	16.43			17.5	0.0
100	PI2 BPSK	270	0	16.59			17.5	0.0
100	QPSK	1	1	16.53				
100	QPSK	1	137	16.52			17.5	0.0
100	QPSK	1	271	16.39				
100	QPSK	135	0	16.39			17.5	0.0
100	QPSK	135	69	16.56				
100	QPSK	135	138	16.47			17.5	0.0
100	QPSK	270	0	16.58			17.5	0.0
100	16QAM	1	1	16.28			17.5	0.0
100	56QAM	1	1	16.33			17.5	0.0
100	256QAM	1	1	16.23			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.58	16.60	16.52	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.52	16.55	16.39	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.50	16.52	16.47	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.49	16.51	16.38	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.33	16.33	16.33	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.49	16.52	16.39	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.52	16.50	16.44	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.43	16.51	16.44	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.49	16.52	16.38	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.52	16.55	16.46	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.47	16.44	16.36	17.5	0.0

### Part270 n78\_Ant 6 DSI 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up Int (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.54				
100	PI2 BPSK	1	137	16.43			17.5	0.0
100	PI2 BPSK	1	271	16.33				
100	PI2 BPSK	135	0	16.47			17.5	0.0
100	PI2 BPSK	135	69	16.48			17.5	0.0
100	PI2 BPSK	135	138	16.38			17.5	0.0
100	PI2 BPSK	270	0	16.42			17.5	0.0
100	QPSK	1	1	16.34				
100	QPSK	1	137	16.37			17.5	0.0
100	QPSK	1	271	16.29				
100	QPSK	135	0	16.33			17.5	0.0
100	QPSK	135	69	16.42				
100	QPSK	135	138	16.43			17.5	0.0
100	QPSK	270	0	16.47			17.5	0.0
100	16QAM	1	1	16.39			17.5	0.0
100	56QAM	1	1	16.11			17.5	0.0
100	256QAM	1	1	16.28			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.50	16.52	16.45	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.40	16.47	16.38	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.41	16.44	16.31	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.44	16.39	16.34	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.34	16.30	16.34	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.45	16.40	16.35	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.37	16.41	16.33	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.38	16.36	16.32	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.35	16.30	16.37	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.46	16.46	16.29	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.38	16.46	16.30	17.5	0.0

### Part27Q n78\_Ant 7 DSI 4

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Middle Ch./Freq.	Power High Ch./Freq.	Tune-up Int (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.17				
100	PI2 BPSK	1	137	14.96			16.0	0.0
100	PI2 BPSK	1	271	14.92				
100	PI2 BPSK	135	0	15.08			16.0	0.0
100	PI2 BPSK	135	69	15.12			16.0	0.0
100	PI2 BPSK	135	138	14.84			16.0	0.0
100	PI2 BPSK	270	0	15.07			16.0	0.0
100	QPSK	1	1	15.12				
100	QPSK	1	137	15.02			16.0	0.0
100	QPSK	1	271	14.76				
100	QPSK	135	0	15.14			16.0	0.0
100	QPSK	135	69	15.02				
100	QPSK	135	138	14.93			16.0	0.0
100	QPSK	270	0	15.04			16.0	0.0
100	16QAM	1	1	14.85			16.0	0.0
100	56QAM	1	1	14.92			16.0	0.0
100	256QAM	1	1	14.90			16.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.02	15.10	14.95	16.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	14.93	15.03	14.90	16.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	14.96	14.98	14.83	16.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	14.95	14.95	14.84	16.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	14.92	15.00	14.93	16.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	14.95	15.02	14.84	16.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	14.98	14.94	14.80	16.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	14.97	15.02	14.79	16.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	14.94	15.02	14.86	16.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	14.89	15.05	14.82	16.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	14.92	15.00	14.80	16.0	0.0



### Part270 n78\_Ant 7 DSI 4

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	14.97				
100	PI2 BPSK	1	137	14.92			16.0	0.0
100	PI2 BPSK	1	271	14.82				
100	PI2 BPSK	135	0	14.92			16.0	0.0
100	PI2 BPSK	135	69	14.95			16.0	0.0
100	PI2 BPSK	135	138	14.91			16.0	0.0
100	PI2 BPSK	270	0	14.92			16.0	0.0
100	QPSK	1	1	14.82			16.0	0.0
100	QPSK	1	137	14.82			16.0	0.0
100	QPSK	1	271	14.78				
100	QPSK	135	0	14.86			16.0	0.0
100	QPSK	135	69	14.82			16.0	0.0
100	QPSK	135	138	14.92			16.0	0.0
100	QPSK	270	0	14.83			16.0	0.0
100	8QAM	1	1	14.82			16.0	0.0
100	8QAM	1	1	14.81			16.0	0.0
100	256QAM	1	1	14.58			16.0	0.0
Channel								
Frequency (MHz)								
649668	650000	650332					Tune-up limit (dBm)	MPR (dB)
3745.02	3750	3754.98					16.0	0.0
90	PI2 BPSK	1	1	14.88	14.92	14.82	16.0	0.0
Channel								
Frequency (MHz)								
649334	650000	650666					Tune-up limit (dBm)	MPR (dB)
3742.01	3750	3759.99					16.0	0.0
80	PI2 BPSK	1	1	14.82	14.85	14.71	16.0	0.0
Channel								
Frequency (MHz)								
649000	650000	651000					Tune-up limit (dBm)	MPR (dB)
3739	3750	3760.99					16.0	0.0
70	PI2 BPSK	1	1	14.80	14.84	14.76	16.0	0.0
Channel								
Frequency (MHz)								
648668	650000	651332					Tune-up limit (dBm)	MPR (dB)
3737	3750	3760.99					16.0	0.0
60	PI2 BPSK	1	1	14.79	14.82	14.71	16.0	0.0
Channel								
Frequency (MHz)								
648334	650000	651666					Tune-up limit (dBm)	MPR (dB)
3735.01	3750	3774.99					16.0	0.0
50	PI2 BPSK	1	1	14.72	14.82	14.74	16.0	0.0
Channel								
Frequency (MHz)								
648000	650000	652000					Tune-up limit (dBm)	MPR (dB)
3732	3750	3760.99					16.0	0.0
40	PI2 BPSK	1	1	14.72	14.83	14.65	16.0	0.0
Channel								
Frequency (MHz)								
647668	650000	652332					Tune-up limit (dBm)	MPR (dB)
3715.02	3750	3764.98					16.0	0.0
30	PI2 BPSK	1	1	14.72	14.79	14.72	16.0	0.0
Channel								
Frequency (MHz)								
647334	650000	652666					Tune-up limit (dBm)	MPR (dB)
3712.01	3750	3767.99					16.0	0.0
25	PI2 BPSK	1	1	14.80	14.78	14.70	16.0	0.0
Channel								
Frequency (MHz)								
647000	650000	653000					Tune-up limit (dBm)	MPR (dB)
3710.01	3750	3769.99					16.0	0.0
20	PI2 BPSK	1	1	14.81	14.83	14.73	16.0	0.0
Channel								
Frequency (MHz)								
647168	650000	653332					Tune-up limit (dBm)	MPR (dB)
3707.92	3750	3762.98					16.0	0.0
15	PI2 BPSK	1	1	14.81	14.76	14.72	16.0	0.0
Channel								
Frequency (MHz)								
647000	650000	653000					Tune-up limit (dBm)	MPR (dB)
3705	3750	3765					16.0	0.0
10	PI2 BPSK	1	1	14.80	14.79	14.75	16.0	0.0

### Part27Q n78\_Ant 8 DSI 4

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	16.36				
100	PI2 BPSK	1	137	16.21			17.5	0.0
100	PI2 BPSK	1	271	16.01				
100	PI2 BPSK	135	0	16.21			17.5	0.0
100	PI2 BPSK	135	69	16.25			17.5	0.0
100	PI2 BPSK	135	138	16.03			17.5	0.0
100	PI2 BPSK	270	0	16.16			17.5	0.0
100	QPSK	1	1	16.24			17.5	0.0
100	QPSK	1	137	16.21			17.5	0.0
100	QPSK	1	271	15.98				
100	QPSK	135	0	16.33			17.5	0.0
100	QPSK	135	69	16.24			17.5	0.0
100	QPSK	135	138	16.04			17.5	0.0
100	QPSK	270	0	16.24			17.5	0.0
100	8QAM	1	1	16.38			17.5	0.0
100	8QAM	1	1	20.01			17.5	0.0
100	256QAM	1	1	16.21			17.5	0.0
Channel								
Frequency (MHz)								
633000	633334	633666					Tune-up limit (dBm)	MPR (dB)
3495	3500.01	3504.99					16.25	0.0
90	PI2 BPSK	1	1	16.28	16.32	16.25	17.5	0.0
Channel								
Frequency (MHz)								
632668	633334	634000					Tune-up limit (dBm)	MPR (dB)
3492.02	3500.01	3510					16.25	0.0
80	PI2 BPSK	1	1	16.23	16.21	16.16	17.5	0.0
Channel								
Frequency (MHz)								
632334	633334	634332					Tune-up limit (dBm)	MPR (dB)
3490	3500.01	3511.99					17.5	0.0
70	PI2 BPSK	1	1	16.12	16.20	16.19	17.5	0.0
Channel								
Frequency (MHz)								
632000	633334	634666					Tune-up limit (dBm)	MPR (dB)
3488	3500.01	3514.98					17.5	0.0
60	PI2 BPSK	1	1	16.23	16.20	16.19	17.5	0.0
Channel								
Frequency (MHz)								
631668	633334	635000					Tune-up limit (dBm)	MPR (dB)
3486.01	3500.01	3516.98					17.5	0.0
50	PI2 BPSK	1	1	16.23	16.20	16.19	17.5	0.0
Channel								
Frequency (MHz)								
631334	633334	635332					Tune-up limit (dBm)	MPR (dB)
3470.01	3500.01	3520.98					17.5	0.0
40	PI2 BPSK	1	1	16.14	16.16	16.20	17.5	0.0
Channel								
Frequency (MHz)								
631000	633334	635666					Tune-up limit (dBm)	MPR (dB)
3465	3500.01	3524.98					17.5	0.0
30	PI2 BPSK	1	1	16.21	16.22	16.11	17.5	0.0
Channel								
Frequency (MHz)								
630668	633334	636000					Tune-up limit (dBm)	MPR (dB)
3462.51	3500.01	3537.48					17.5	0.0
25	PI2 BPSK	1	1	16.18	16.26	16.09	17.5	0.0
Channel								
Frequency (MHz)								
630334	633334	636332					Tune-up limit (dBm)	MPR (dB)
3460.02	3500.01	3540					17.5	0.0
20	PI2 BPSK	1	1	16.19	16.17	16.09	17.5	0.0
Channel								
Frequency (MHz)								
630000	633334	636666					Tune-up limit (dBm)	MPR (dB)
3457.5	3500.01	3542.49					17.5	0.0
15	PI2 BPSK	1	1	16.15	16.21	16.13	17.5	0.0
Channel								
Frequency (MHz)								
629334	633334	637000					Tune-up limit (dBm)	MPR (dB)
3450.01	3500.01	3544.98					17.5	0.0
10	PI2 BPSK	1	1	16.18	16.21	16.17	17.5	0.0

### Part270 n78\_Ant 8 DSI 4

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	16.23				
100	PI2 BPSK	1	137	16.08			17.5	0.0
100	PI2 BPSK	1	271	15.85				
100	PI2 BPSK	135	0	16.25			17.5	0.0
100	PI2 BPSK	135	69	16.26			17.5	0.0
100	PI2 BPSK	135	138	16.06			17.5	0.0
100	PI2 BPSK	270	0	16.18			17.5	0.0
100	QPSK	1	1	16.24			17.5	0.0
100	QPSK	1	137	16.08			17.5	0.0
100	QPSK	1	271	15.82				
100	QPSK	135	0	16.31			17.5	0.0
100	QPSK	135	69	16.22			17.5	0.0
100	QPSK	135	138	16.04			17.5	0.0
100	QPSK	270	0	16.24			17.5	0.0
100	8QAM	1	1	16.38			17.5	0.0
100	8QAM	1	1	20.01			17.5	0.0
100	256QAM	1	1	16.21			17.5	0.0
Channel								
Frequency (MHz)								
649668	650000	650332					Tune-up limit (dBm)	MPR (dB)
3745.02	3750	3754.98					16.25	0.0
90	PI2 BPSK	1	1	15.91	15.95	15.86	17.5	0.0
Channel								
Frequency (MHz)								
649334	650000	650666					Tune-up limit (dBm)	MPR (dB)
3742.01	3750	3760.99					17.5	0.0
80	PI2 BPSK	1	1	15.80	15.89	15.73	17.5	0.0
Channel								
Frequency (MHz)								
649000	650000	651000					Tune-up limit (dBm)	MPR (dB)
3739	3750	3760.99					17.5	0.0
70	PI2 BPSK	1	1	15.85	15.90	15.75	17.5	0.0
Channel								
Frequency (MHz)								
648668	650000	651332					Tune-up limit (dBm)	MPR (dB)
3737	3750	3760.99					17.5	0.0
60	PI2 BPSK	1	1	15.82	15.90	15.81	17.5	0.0
Channel								
Frequency (MHz)								
648334	650000	651666					Tune-up limit (dBm)	MPR (dB)
3735.01	3750	3774.99					17.5	0.0
50	PI2 BPSK	1	1	15.82	15.90	15.81	17.5	0.0
Channel								
Frequency (MHz)								
648000	650000	652000					Tune-up limit (dBm)	MPR (dB)
3732	3750	3760.99					17.5	0.0
40	PI2 BPSK	1	1	15.75	15.83	15.74	17.5	0.0
Channel								
Frequency (MHz)								
647668	650000	652332					Tune-up limit (dBm)	MPR (dB)
3715.02	3750	3764.98					17.5	0.0
30	PI2 BPSK	1	1	15.79	15.84	15.70	17.5	0.0
Channel								
Frequency (MHz)								
647334	650000	652666					Tune-up limit (dBm)	MPR (dB)
3712.01	3750	3767.99					17.5	0.0
25	PI2 BPSK	1	1	15.83	15.82	15.75	17.5	0.0
Channel								
Frequency (MHz)								
647000	650000	653000					Tune-up limit (dBm)	MPR (dB)
3710.01	3750	3769.99					17.5	0.0
20	PI2 BPSK	1	1	15.79	15.86	15.74	17.5	0.0
Channel								
Frequency (MHz)								
647168	650000	653332					Tune-up limit (dBm)	MPR (dB)
3707.92	3750	3762.98					17.5	0.0
15	PI2 BPSK	1	1					









Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)				37850	38050	38150				
20	QPSK	1	0	22.81	22.54	22.46				
20	QPSK	1	49	22.83	22.52	22.45			24	0
20	QPSK	1	99	22.80	22.56	22.49				
20	QPSK	50	0	21.64	21.31	21.52				
20	QPSK	50	24	21.78	21.37	21.28			23	1
20	QPSK	50	60	21.54	21.25	21.28				
20	QPSK	100	0	21.85	21.59	21.28				
20	16QAM	1	0	21.41	21.37	21.28				
20	16QAM	1	49	21.62	21.27	21.33			23	1
20	16QAM	1	99	21.54	21.25	21.30				
20	16QAM	50	0	20.81	20.23	20.30				
20	16QAM	50	24	20.59	20.25	20.31			22	2
20	16QAM	50	60	20.52	20.29	20.28				
20	16QAM	100	0	20.56	20.24	20.31				
20	64QAM	1	0	20.32	20.03	20.07			22	2
20	64QAM	1	99	20.38	20.01	20.02				
20	64QAM	50	0	19.59	19.31	19.34				
20	64QAM	50	24	19.61	19.26	19.35			21	3
20	64QAM	50	60	19.58	19.25	19.28				
20	256QAM	100	0	19.82	19.29	19.28				
20	256QAM	1	0	17.24	17.34	17.50				
20	256QAM	1	49	17.27	17.24	17.31			19	5
20	256QAM	1	99	17.31	17.29	17.24				
20	256QAM	50	0	17.35	17.09	17.33				
20	256QAM	50	24	17.14	17.25	17.30			19	5
20	256QAM	50	60	17.22	17.20	17.22				
20	256QAM	100	0	17.30	17.30	17.20				
Channel										
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)	MFR (dB)		
15	QPSK	1	0	22.77	22.38	22.36			24	0
15	QPSK	1	37	22.78	22.37	22.45				
15	QPSK	1	74	22.70	22.39	22.39				
15	QPSK	36	0	21.70	21.23	21.29				
15	QPSK	36	20	21.69	21.25	21.20			23	1
15	QPSK	36	39	21.68	21.24	21.24				
15	QPSK	75	0	21.72	21.27	21.25				
15	QPSK	1	0	21.72	21.33	21.29				
15	16QAM	1	37	21.79	21.35	21.31			23	1
15	16QAM	1	74	21.69	21.23	21.24				
15	16QAM	36	0	20.71	20.23	20.27				
15	16QAM	36	20	20.53	20.11	20.24			22	2
15	16QAM	36	39	20.60	20.17	20.25				
15	16QAM	75	0	20.69	20.28	20.30				
15	16QAM	1	0	20.11	19.79	19.24				
15	64QAM	1	37	20.52	20.01	20.02			22	2
15	64QAM	1	74	20.52	20.08	20.05				
15	64QAM	36	0	19.75	19.35	19.27				
15	64QAM	36	20	19.70	19.27	19.31			21	3
15	64QAM	36	39	19.73	19.34	19.38				
15	256QAM	1	0	17.23	17.34	17.20				
15	256QAM	1	37	17.17	17.25	17.32			19	5
15	256QAM	1	74	17.19	17.10	17.15				
15	256QAM	36	0	17.11	17.32	17.34				
15	256QAM	36	20	17.09	17.20	17.11			19	5
15	256QAM	36	39	17.17	17.35	17.22				
15	256QAM	75	0	17.34	17.35	17.22				
Channel										
Frequency (MHz)				37850	38050	38250	Tune-up limit (dBm)	MFR (dB)		
10	QPSK	1	0	22.81	22.59	22.44			24	0
10	QPSK	1	25	22.81	22.51	22.29				
10	QPSK	1	50	22.80	22.56	22.49				
10	QPSK	25	0	21.77	21.40	21.52				
10	QPSK	25	12	21.71	21.25	21.20			23	1
10	QPSK	25	24	21.74	21.18	21.18				
10	QPSK	50	0	21.78	21.24	21.21				
10	16QAM	1	0	21.73	21.44	21.38			23	1
10	16QAM	1	25	21.78	21.44	21.38				
10	16QAM	1	49	21.66	21.29	21.39				
10	16QAM	25	0	20.81	20.22	20.30				
10	16QAM	25	12	20.65	20.16	20.21			22	2
10	16QAM	25	24	20.62	20.25	20.16				
10	16QAM	50	0	20.75	20.22	20.30				
10	64QAM	1	0	20.52	20.01	20.03			22	2
10	64QAM	1	25	20.51	20.14	20.05				
10	64QAM	1	49	20.46	20.03	20.03				
10	64QAM	25	0	19.75	19.28	19.21			21	3
10	64QAM	25	12	19.62	19.28	19.38				
10	64QAM	25	24	19.71	19.15	19.30				
10	64QAM	50	0	19.75	19.26	19.27				
10	64QAM	50	12	17.23	17.34	17.20			19	5
10	256QAM	1	0	17.23	17.34	17.20				
10	256QAM	1	12	17.17	17.25	17.32			19	5
10	256QAM	1	24	17.19	17.10	17.15				
10	256QAM	25	0	17.11	17.32	17.34				
10	256QAM	25	12	17.09	17.20	17.11			19	5
10	256QAM	25	24	17.17	17.35	17.22				
10	256QAM	50	0	17.34	17.35	17.22				

Band 38_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)				37950	38000	38150				
20	QPSK	1	0	24.54	24.30	24.38			25.5	0
20	QPSK	1	49	24.55	24.38	24.36				
20	QPSK	1	99	24.51	24.33	24.31				
20	QPSK	50	0	23.57	23.32	23.39				
20	QPSK	50	24	23.61	23.27	23.38			24.5	1
20	QPSK	50	60	23.55	23.35	23.38				
20	QPSK	100	0	23.49	23.27	23.41				
20	16QAM	1	0	23.61	23.31	23.35				
20	16QAM	1	49	23.50	23.36	23.34			24.5	1
20	16QAM	1	99	23.56	23.38	23.35				
20	16QAM	50	0	22.91	22.39	22.38				
20	16QAM	50	24	22.59	22.33	22.39			23.5	2
20	16QAM	50	60	22.55	22.35	22.38				
20	16QAM	100	0	22.51	22.25	22.38				
20	64QAM	1	0	22.29	22.06	22.05			23.5	2
20	64QAM	1	99	22.28	22.00	22.11				
20	64QAM	50	0	21.50	21.31	21.38			22.5	3
20	64QAM	50	24	21.55	21.31	21.40				
20	64QAM	50	60	21.54	21.35	21.42				
20	256QAM	100	0	21.50	21.27	21.27				
20	256QAM	1	0	19.00	19.33	19.23				
20	256QAM	1	49	19.32	19.45	19.38				
20	256QAM	1	99	19.20	19.29	19.13				
20	256QAM	50	0	19.32	19.05	19.03				
20	256QAM	50	24	19.36	19.27	19.37			20.5	5
20	256QAM	50	60	19.35	19.11	19.34				
20	256QAM	100	0	19.32	19.04	19.42				
Channel										
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)	MFR (dB)		
15	QPSK	1	0	24.81	24.30	24.32			25.5	0
15	QPSK	1	37	24.86	24.33	24.39				
15	QPSK	1	74	24.60	24.34	24.34				
15	QPSK	36	0	23.62	23.24	23.28			24.5	1
15	QPSK	36	20	23.55	23.23	23.29				
15	QPSK	36	39	23.52	23.18	23.31				
15	QPSK	75	0	23.51	23.24	23.29				
15	16QAM	1	37	23.57	23.31	23.33			24.5	1
15	16QAM	1	74	23.47	23.28	23.38				
15	16QAM	36	0	22.44	22.18	22.30				
15	16QAM	36	20	22.45	22.04	22.09			23.5	2
15	16QAM	36	39	22.54	22.18	22.29				
15	16QAM	75	0	22.55	22.23	22.36				
15	16QAM	1	0	22.01	21.74	21.24				
15	64QAM	1	37	22.30	22.06	22.12			23.5	2
15	64QAM	1	74	22.30	22.05	22.13				
15	64QAM	36	0	21.54	21.25	21.33				
15	64QAM	36	20	21.51	21.23	21.26			22.5	3
15	64QAM	36	39	21.52	21.25	21.31				
15	64QAM	75	0	21.52	21.24	21.30				
15	256QAM	1	0	19.32	19.08	19.37			20.5	5
15	256QAM	1	37	19.44	19.21	19.30				
15	256QAM	1	74	19.22	19.08	19.00				
15	256QAM	36	0	19.35	19.24	19.25				
15	256QAM	36	20	19.15	19.21	19.32			20.5	5
15	256QAM	36	39	19.36	19.05	19.34				
15	256QAM	75	0	19.32	19.04	19.32				
Channel										
Frequency (MHz)				37950	38000	38250	Tune-up limit (dBm)	MFR (dB)		
10	QPSK	1	0	24.50	24.31	24.43			25.5	0
10	QPSK	1	25	24.57	24.27	24.31				
10										



Band 38_Ant 5											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MRR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	24.03	23.84	23.91				25	0
20	QPSK	1	49	23.95	23.81	23.88					
20	QPSK	1	99	22.06	21.94	22.00					
20	QPSK	50	0	23.12	22.95	23.03					
20	QPSK	50	24	22.11	22.07	22.09				24	1
20	QPSK	50	49	22.11	22.07	22.09					
20	QPSK	100	0	23.08	22.83	22.95					
20	16QAM	1	0	23.24	23.02	23.13					
20	16QAM	1	49	23.27	23.12	23.21				24	1
20	16QAM	1	99	23.29	23.11	23.21					
20	16QAM	50	0	22.06	21.94	22.00					
20	16QAM	50	24	22.16	21.95	22.02				23	2
20	16QAM	50	49	22.16	21.95	22.02					
20	16QAM	100	0	22.13	21.95	22.04					
20	64QAM	1	0	22.08	21.93	22.01				23	2
20	64QAM	1	99	22.16	22.09	22.09					
20	64QAM	50	0	21.10	20.95	21.08					
20	64QAM	50	24	21.14	20.99	21.08				22	3
20	64QAM	50	49	21.18	20.97	21.12					
20	64QAM	100	0	21.07	20.92	21.00					
20	256QAM	1	0	18.66	18.58	18.62					
20	256QAM	1	49	18.57	18.47	18.42				20	5
20	256QAM	1	99	18.62	18.52	18.57					
20	256QAM	50	0	18.82	18.72	18.71					
20	256QAM	50	24	18.83	18.70	18.88				20	5
20	256QAM	50	49	18.84	18.74	18.85					
20	256QAM	100	0	18.73	18.63	18.65					
Channel											
Frequency (MHz)											
15	QPSK	1	0	24.10	23.91	24.00					
15	QPSK	1	37	24.06	23.94	24.00				25	0
15	QPSK	1	74	24.11	24.07	24.11					
15	QPSK	36	0	23.12	22.99	23.06					
15	QPSK	36	20	23.08	22.93	23.01				24	1
15	QPSK	36	39	23.13	22.94	23.08					
15	16QAM	1	0	23.24	23.02	23.13					
15	16QAM	1	37	23.27	23.08	23.21				24	1
15	16QAM	1	74	23.29	23.09	23.21					
15	16QAM	36	0	22.06	21.94	22.00					
15	16QAM	36	20	22.14	21.98	22.03				23	2
15	16QAM	36	39	22.13	21.93	22.07					
15	16QAM	75	0	22.09	21.92	22.06					
15	64QAM	1	0	21.99	21.89	21.98					
15	64QAM	1	37	22.15	21.97	22.05				23	2
15	64QAM	36	0	21.08	20.95	21.05					
15	64QAM	36	20	21.13	20.92	21.09				22	3
15	64QAM	36	39	21.08	20.94	21.11					
15	256QAM	1	0	18.75	18.71	18.75					
15	256QAM	1	37	18.78	18.69	18.77				20	5
15	256QAM	1	74	18.83	18.63	18.70					
15	256QAM	36	0	18.53	18.50	18.53					
15	256QAM	36	20	18.53	18.50	18.53				20	5
15	256QAM	36	39	18.53	18.56	18.73					
15	256QAM	75	0	18.75	18.69	18.75					
Channel											
Frequency (MHz)											
10	QPSK	1	0	24.11	23.93	24.00					
10	QPSK	1	25	24.11	23.88	23.96				24	0
10	QPSK	1	49	24.06	23.95	24.00					
10	QPSK	25	0	23.12	23.02	23.12					
10	QPSK	25	12	23.14	22.98	23.11				24	1
10	QPSK	25	25	23.12	22.95	23.11					
10	16QAM	1	0	23.24	23.02	23.13					
10	16QAM	1	25	23.27	23.08	23.21				24	1
10	16QAM	1	49	23.29	23.09	23.21					
10	16QAM	25	0	22.06	21.94	22.00					
10	16QAM	25	12	22.21	21.99	22.18				23	2
10	16QAM	25	25	22.20	21.96	22.14					
10	16QAM	50	0	22.13	21.95	22.04					
10	64QAM	1	0	22.12	21.94	22.09					
10	64QAM	1	25	22.16	21.95	22.06				23	2
10	64QAM	1	49	22.16	21.95	22.02					
10	64QAM	25	0	21.17	21.08	21.21					
10	64QAM	25	12	21.22	21.00	21.18				22	3
10	64QAM	25	25	21.23	21.09	21.17					
10	256QAM	1	0	18.73	18.63	18.74					
10	256QAM	1	25	18.82	18.76	18.74				20	5
10	256QAM	1	49	18.85	18.64	18.58					
10	256QAM	25	0	18.77	18.66	18.63					
10	256QAM	25	12	18.69	18.70	18.65				20	5
10	256QAM	25	25	18.68	18.72	18.61					
10	256QAM	50	0	18.73	18.61	18.59					
Channel											
Frequency (MHz)											
5	QPSK	1	0	24.05	23.96	24.02					
5	QPSK	1	12	24.08	23.85	23.90				25	0
5	QPSK	1	24	24.06	23.83	24.00					
5	QPSK	12	0	23.14	22.95	23.02					
5	QPSK	12	7	23.14	22.91	23.02				24	1
5	QPSK	12	13	23.10	22.86	23.00					
5	16QAM	1	0	23.23	23.05	23.19					
5	16QAM	1	12	23.23	23.05	23.25				24	1
5	16QAM	1	24	23.24	23.06	23.20					
5	16QAM	12	0	22.06	21.94	22.00					
5	16QAM	12	7	22.13	21.93	22.12				23	2
5	16QAM	12	13	22.13	21.96	22.06					
5	16QAM	25	0	22.13	21.95	22.04					
5	64QAM	1	0	22.17	21.93	22.04				23	2
5	64QAM	1	12	22.17	21.98	22.14					
5	64QAM	1	24	22.17	21.99	22.05					
5	64QAM	12	0	21.17	20.99	21.05				22	3
5	64QAM	12	7	21.19	20.97	21.12					
5	64QAM	12	13	21.17	20.99	21.06					
5	64QAM	25	0	21.24	21.05	21.20					
5	256QAM	1	0	18.53	18.55	18.66					
5	256QAM	1	12	18.67	18.50	18.58				20	5
5	256QAM	1	24	18.60	18.68	18.52					
5	256QAM	12	0	18.77	18.71	18.68					
5	256QAM	12	7	18.66	18.76	18.76				20	5
5	256QAM	12	13	18.81	18.81	18.59					
5	256QAM	25	0	18.63	18.62	18.69					

Band 41_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MRR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.04	23.24	23.38	23.24	23.09		24	0
20	QPSK	1	49	23.10	23.31	23.35	23.25	23.18			
20	QPSK	1	99	23.15	23.48	23.47	23.33	23.24			
20	QPSK	50	0	22.15	22.42	22.41	22.36	22.21			
20	QPSK	50	24	22.11	22.27	22.27	22.16	22.11		23	1
20	QPSK	50	49	22.14	22.35	22.33	22.23	22.11			
20	QPSK	100	0	22.12	22.38	22.37	22.25	22.13			
20	16QAM	1	0	22.11	22.36	22.36	22.23	22.12			
20	16QAM	1	49	22.12	22.42	22.39	22.28	22.14		23	1
20	16QAM	1	99	22.13	22.27	22.26	22.21	22.08			
20	16QAM	50	0	21.09	21.28	21.45	21.24	21.22			
20	16QAM	50	24	21.11	21.31	21.43	21.31	21.19		22	2
20	16QAM	50	49	21.15	21.25	21.35	21.27	21.15			
20	16QAM	100	0	21.15	21.25	21.35	21.27	21.15			
20	64QAM	1	0	20.92	20.98	21.18	20.96	20.85		22	2
20	64QAM	1	49	20.92	20.98	21.18	20.96	20.85			
20	64QAM	1	99	20.80	20.88	21.03	20.92	20.82			
20	64QAM	50	0	20.08	20.29	20.39	20.21	20.16		21	3
20	64QAM	50	24	20.08	20.25	20.38	20.25	20.14			
20	64QAM	50	49	20.13	20.29	20.33	20.23	20.13			
20	64QAM	100	0	20.08	20.24	20.31	20.18	20.17			
20	256QAM	1	0	17.80	17.69	17.94	17.72	17.65			
20	256QAM	1	49	17.80	17.58	17.60	17.65	17.71		19	5
20	256QAM	1	99	17.63	17.83	17.58	17.68	17.80			
20	256QAM	50	0	17.84	17.70	17.69	17.61	17.62			
20	256QAM	50	24	17.85	17.75	17.63	17.63	17.88		19	5
20	256QAM	50	49	17.71	17.74	17.67	17.65	17.68			
20	256QAM	100	0	17.82	17.71	17.62	17.65	17.74			
Channel											
Frequency (MHz)											
15	QPSK	1									



Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MPE (dB)
Channel										
Frequency (MHz)										
39750 40165 40620 41055 41490										
30	QPSK	1	0	25.16	25.33	25.57	25.50	25.52	25.7	0
30	QPSK	1	49	25.21	25.41	25.58	25.45	25.55		
30	QPSK	1	99	25.22	25.65	25.65	25.49	25.61		
30	QPSK	50	0	24.18	24.68	24.67	24.67	24.61	24.7	1
30	QPSK	50	24	24.18	24.26	24.61	24.47	24.56		
30	QPSK	50	50	24.10	24.26	24.55	24.55	24.47		
30	QPSK	100	0	24.17	24.59	24.58	24.49	24.57		
30	IQAM	1	0	24.22	24.24	24.45	24.45	24.44	24.7	1
30	IQAM	1	49	24.13	24.45	24.38	24.48	24.52		
30	IQAM	1	99	24.19	24.57	24.32	24.47	24.53		
30	IQAM	50	0	23.13	23.91	23.60	23.49	23.63	23.7	2
30	IQAM	50	24	23.17	23.93	23.64	23.49	23.57		
30	IQAM	100	0	23.16	23.47	23.45	23.52	23.58		
30	IQAM	1	0	23.17	23.15	23.13	23.23	23.25	23.7	2
30	IQAM	1	49	23.01	23.19	23.21	23.20	23.21		
30	IQAM	1	99	23.22	23.27	23.22	23.17	23.28		
30	IQAM	50	0	22.14	22.48	22.36	22.48	22.58	22.7	3
30	IQAM	50	24	22.14	22.50	22.45	22.45	22.58		
30	IQAM	50	50	22.25	22.50	22.40	22.51	22.53		
30	IQAM	100	0	22.17	22.42	22.39	22.48	22.51	20.7	5
30	IQAM	100	0	20.29	20.13	20.24	20.38	20.18		
30	IQAM	1	49	20.38	20.19	20.19	20.20	20.17		
30	IQAM	1	99	20.18	20.24	20.27	20.29	20.31		
30	IQAM	50	0	20.30	20.18	20.44	20.10	20.39		
30	IQAM	50	24	20.33	20.29	20.31	20.22	20.33		
30	IQAM	50	50	20.18	20.15	20.33	20.33	20.24		
30	IQAM	100	0	20.13	20.19	20.24	20.39	20.34		
Channel										
Frequency (MHz)										
2503.5 2548.1 2593 2637.8 2682.5										
15	QPSK	1	0	25.12	25.10	25.23	25.48	25.52	25.70	0
15	QPSK	1	37	25.08	25.24	25.23	25.43	25.58		
15	QPSK	1	74	25.16	25.20	25.27	25.38	25.61		
15	QPSK	36	0	24.03	24.03	24.46	24.45	24.41	24.7	1
15	QPSK	36	20	24.06	24.05	24.44	24.43	24.56		
15	QPSK	36	39	24.12	24.08	24.47	24.45	24.57		
15	IQAM	1	0	24.10	24.12	24.42	24.45	24.45	24.7	1
15	IQAM	1	37	24.10	24.11	24.44	24.48	24.50		
15	IQAM	1	74	24.15	24.09	24.46	24.44	24.53		
15	IQAM	36	0	23.28	23.00	23.41	23.40	23.63	23.7	2
15	IQAM	36	20	23.16	23.02	23.41	23.40	23.61		
15	IQAM	36	39	23.11	23.05	23.42	23.41	23.59		
15	IQAM	75	0	23.10	23.10	23.46	23.49	23.58		
15	IQAM	1	0	23.10	23.21	23.29	23.29	23.25	23.7	2
15	IQAM	1	37	23.11	23.07	23.22	23.11	23.23		
15	IQAM	1	74	23.02	23.03	23.41	23.42	23.56		
15	IQAM	36	0	22.02	22.03	22.41	22.42	22.58	22.7	3
15	IQAM	36	20	22.07	22.03	22.41	22.42	22.58		
15	IQAM	36	39	22.12	22.04	22.41	22.46	22.53		
15	IQAM	75	0	22.46	22.06	22.46	22.43	22.53		
15	IQAM	1	0	20.15	20.14	20.36	20.24	20.27	20.7	5
15	IQAM	1	37	20.15	20.29	20.30	20.30	20.32		
15	IQAM	1	74	20.28	20.23	20.31	20.37	20.37		
15	IQAM	36	0	20.14	20.26	20.31	20.37	20.37		
15	IQAM	36	20	20.38	20.14	20.15	20.30	20.34		
15	IQAM	36	39	20.35	20.17	20.20	20.38	20.39		
15	IQAM	75	0	20.39	20.28	20.34	20.34	20.37		
Channel										
Frequency (MHz)										
39750 40165 40620 41055 41490										
30	QPSK	1	0	25.10	25.51	25.47	25.48	25.57	25.70	0
30	QPSK	1	25	25.14	25.56	25.50	25.54	25.53		
30	QPSK	1	50	24.05	24.05	24.47	24.47	24.46		
30	QPSK	25	0	24.08	24.43	24.42	24.41	24.57		
30	QPSK	25	12	24.07	24.46	24.40	24.47	24.53		
30	QPSK	25	25	24.09	24.45	24.48	24.48	24.57		
30	QPSK	50	0	24.07	24.45	24.40	24.46	24.56		
30	IQAM	1	0	24.04	24.44	24.40	24.44	24.44		
30	IQAM	1	49	24.14	24.42	24.38	24.46	24.52		
30	IQAM	1	99	24.09	24.49	24.39	24.47	24.51		
30	IQAM	25	0	23.04	23.00	23.43	23.44	23.57		
30	IQAM	25	12	23.09	23.47	23.48	23.48	23.87		
30	IQAM	25	26	23.10	23.51	23.38	23.52	23.58		
30	IQAM	50	0	23.10	23.00	23.44	23.47	23.56		
30	IQAM	1	0	23.09	23.17	23.20	23.18	23.22	23.7	2
30	IQAM	1	49	23.12	23.26	23.21	23.11	23.25		
30	IQAM	25	0	22.08	22.46	22.45	22.47	22.58	22.7	3
30	IQAM	25	12	22.11	22.51	22.42	22.51	22.58		
30	IQAM	50	0	22.06	22.44	22.36	22.44	22.56		
30	IQAM	1	0	20.44	20.19	20.35	20.11	20.33		
30	IQAM	1	25	20.20	20.41	20.27	20.12	20.14		
30	IQAM	1	49	20.24	20.26	20.31	20.43	20.22		
30	IQAM	25	0	20.34	20.23	20.35	20.13	20.35		
30	IQAM	25	12	20.33	20.24	20.25	20.20	20.28		
30	IQAM	25	25	20.29	20.10	20.29	20.44	20.40		
30	IQAM	50	0	20.22	20.12	20.24	20.30	20.21		
Channel										
Frequency (MHz)										
2488.5 2543.8 2599 2643.9 2687.5										
5	QPSK	1	0	25.11	25.53	25.47	25.44	25.61	25.70	0
5	QPSK	1	12	25.17	25.62	25.43	25.52	25.60		
5	QPSK	1	24	25.13	25.54	25.46	25.45	25.67		
5	QPSK	12	0	24.13	24.42	24.46	24.46	24.47		
5	QPSK	12	7	24.04	24.45	24.38	24.44	24.56		
5	QPSK	12	13	24.04	24.49	24.38	24.47	24.54		
5	QPSK	25	0	24.00	24.41	24.30	24.36	24.51		
5	IQAM	1	0	24.07	24.45	24.38	24.42	24.46		
5	IQAM	1	12	24.08	24.47	24.41	24.45	24.50		
5	IQAM	1	24	24.05	24.50	24.38	24.40	24.51		
5	IQAM	12	0	23.10	23.41	23.38	23.40	23.43		
5	IQAM	12	7	23.04	23.41	23.36	23.39	23.50		
5	IQAM	12	13	23.28	23.41	23.38	23.42	23.48		
5	IQAM	25	0	23.05	23.45	23.41	23.48	23.56		
5	IQAM	1	0	23.16	23.36	23.38	23.18	23.30	23.7	2
5	IQAM	1	12	23.11	23.24	23.24	23.17	23.27		
5	IQAM	1	24	23.15	23.29	23.21	23.14	23.26		
5	IQAM	12	0	22.04	22.47	22.37	22.40	22.50	22.7	3
5	IQAM	12	13	22.04	22.44	22.34	22.36	22.47		
5	IQAM	25	0	22.06	22.49	22.42	22.50	22.60		
5	IQAM	1	0	20.27	20.40	20.33	20.44	20.23	20.7	5
5	IQAM	1	12	20.37	20.31	20.38	20.21	20.32		
5	IQAM	1	24	20.34	20.18	20.17	20.21	20.35		
5	IQAM	12	0	20.21	20.28	20.36	20.24	20.40		
5	IQAM	12	7	20.14	20.15	20.27	20.12	20.34		
5	IQAM	12	13	20.28	20.45	20.24	20.45	20.23		
5	IQAM	25	0	20.16	20.40	20.20	20.10	20.12		

Band 41_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MPE (dB)
Channel										
Frequency (MHz)										
39750 40165 40620 41055 41490										
30	QPSK	1	0	24.04	24.29	24.42	24.31	24.35	25	0
30	QPSK	1	49	24.08	24.30	24.40	24.30	24.35		
30	QPSK	1	99	24.08	24.38	24.37	24.31	24.41		
30	QPSK	50	0	23.09	23.45	23.44	23.39	23.38		
30	QPSK	50	24	23.09	23.32	23.35	23.15	23.35		
30	QPSK	50	50	23.05	23.32	23.35	23.21	23.25		
30	QPSK	100	0	23.05	23.36	23.35	23.21	23.11		
30	IQAM	1	0	23.07	23.20	23.12	23.40	23.42		
30	IQAM	1	49	23.00	23.30	23.14	23.34	23.40		
30	IQAM	1	99	23.09	23.40	23.19	23.34	23.45		
30	IQAM	50	0	22.09	22.32	22.19	22.42	22.37		
30	IQAM	50	24	22.10	22.30	22.17	22.39	22.38		
30	IQAM	50	50	22.07	22.32	22.15	22.36	22.39		
30	IQAM	100	0	21.77	21.99	21.83	22.07	22.12		
30	IQAM	1	0	21.78	22.12	21.90	22.07	22.16		
30	IQAM	1	49	21.00	21.25	21.14	21.39	21.40		
30	IQAM	1	99	21.08	21.28	21.18	21.32	21.37		
30	IQAM	50	0	21.11	21.37	21.25	21.38	21.44		
30	IQAM	50	24	21.04	21.28	21.14	21.33	21.35		
30	IQAM	50	50	19.80	19.47	19.89	19.57	19.20		
30	IQAM	100	0	19.87	19.20	19.36	19.41	19.67		
30	IQAM	1	49	19.51	19.60	19.69	19.28	19.32		
30	IQAM	1	99	19.72	19.29	19.57	19.23	19.22		
30	IQAM	50	0	19.84	19.24	19.59	19.10	19.69		
30	IQAM	50	24	19.49	19.20	19.23	19.38	19.38		
30	IQAM	50	50	19.75	19.24	19.20	19.68	19.43		
Channel										
Frequency (MHz)										
2503.5 2548.1 2593 2637.8 2682.5										
15	QPSK	1	0	24.08	24.26					



Reduced power level for WWAN-EMC  
D3.9

Table for Band 2\_Ant 2. Columns include BW (MHz), Modulation, RB Size, RB Offset, Channel, Power (dBm), and LTP. Rows list various channel configurations for OFDM, SC-FDMA, and ISM bands.

Table for Band 2\_Ant 3. Columns include BW (MHz), Modulation, RB Size, RB Offset, Channel, Power (dBm), and LTP. Rows list various channel configurations for OFDM, SC-FDMA, and ISM bands.

Table for Band 4\_Ant 2. Columns include BW (MHz), Modulation, RB Size, RB Offset, Channel, Power (dBm), and LTP. Rows list various channel configurations for OFDM, SC-FDMA, and ISM bands.

Table for Band 4\_Ant 3. Columns include BW (MHz), Modulation, RB Size, RB Offset, Channel, Power (dBm), and LTP. Rows list various channel configurations for OFDM, SC-FDMA, and ISM bands.





Band 7_Ant 3										
SV (MHz)	Modulation	RB Size	RB Offset	Low	High	Power	Time Slot	Time Slot	Time Slot	MFR (MHz)
Channel										
Frequency (MHz)				2495	2495	2495				
20	QPSK	1	0	15.72	15.88	15.74	90.7	0		
20	QPSK	1	0	15.73	15.89	15.81				
20	QPSK	1	0	15.74	15.90	15.82				
20	QPSK	1	0	15.75	15.91	15.83				
20	QPSK	1	0	15.76	15.92	15.84				
20	QPSK	1	0	15.77	15.93	15.85				
20	QPSK	1	0	15.78	15.94	15.86				
20	QPSK	1	0	15.79	15.95	15.87				
20	QPSK	1	0	15.80	15.96	15.88				
20	QPSK	1	0	15.81	15.97	15.89				
20	QPSK	1	0	15.82	15.98	15.90				
20	QPSK	1	0	15.83	15.99	15.91				
20	QPSK	1	0	15.84	16.00	15.92				
20	QPSK	1	0	15.85	16.01	15.93				
20	QPSK	1	0	15.86	16.02	15.94				
20	QPSK	1	0	15.87	16.03	15.95				
20	QPSK	1	0	15.88	16.04	15.96				
20	QPSK	1	0	15.89	16.05	15.97				
20	QPSK	1	0	15.90	16.06	15.98				
20	QPSK	1	0	15.91	16.07	15.99				
20	QPSK	1	0	15.92	16.08	16.00				
20	QPSK	1	0	15.93	16.09	16.01				
20	QPSK	1	0	15.94	16.10	16.02				
20	QPSK	1	0	15.95	16.11	16.03				
20	QPSK	1	0	15.96	16.12	16.04				
20	QPSK	1	0	15.97	16.13	16.05				
20	QPSK	1	0	15.98	16.14	16.06				
20	QPSK	1	0	15.99	16.15	16.07				
20	QPSK	1	0	16.00	16.16	16.08				
20	QPSK	1	0	16.01	16.17	16.09				
20	QPSK	1	0	16.02	16.18	16.10				
20	QPSK	1	0	16.03	16.19	16.11				
20	QPSK	1	0	16.04	16.20	16.12				
20	QPSK	1	0	16.05	16.21	16.13				
20	QPSK	1	0	16.06	16.22	16.14				
20	QPSK	1	0	16.07	16.23	16.15				
20	QPSK	1	0	16.08	16.24	16.16				
20	QPSK	1	0	16.09	16.25	16.17				
20	QPSK	1	0	16.10	16.26	16.18				
20	QPSK	1	0	16.11	16.27	16.19				
20	QPSK	1	0	16.12	16.28	16.20				
20	QPSK	1	0	16.13	16.29	16.21				
20	QPSK	1	0	16.14	16.30	16.22				
20	QPSK	1	0	16.15	16.31	16.23				
20	QPSK	1	0	16.16	16.32	16.24				
20	QPSK	1	0	16.17	16.33	16.25				
20	QPSK	1	0	16.18	16.34	16.26				
20	QPSK	1	0	16.19	16.35	16.27				
20	QPSK	1	0	16.20	16.36	16.28				
20	QPSK	1	0	16.21	16.37	16.29				
20	QPSK	1	0	16.22	16.38	16.30				
20	QPSK	1	0	16.23	16.39	16.31				
20	QPSK	1	0	16.24	16.40	16.32				
20	QPSK	1	0	16.25	16.41	16.33				
20	QPSK	1	0	16.26	16.42	16.34				
20	QPSK	1	0	16.27	16.43	16.35				
20	QPSK	1	0	16.28	16.44	16.36				
20	QPSK	1	0	16.29	16.45	16.37				
20	QPSK	1	0	16.30	16.46	16.38				
20	QPSK	1	0	16.31	16.47	16.39				
20	QPSK	1	0	16.32	16.48	16.40				
20	QPSK	1	0	16.33	16.49	16.41				
20	QPSK	1	0	16.34	16.50	16.42				
20	QPSK	1	0	16.35	16.51	16.43				
20	QPSK	1	0	16.36	16.52	16.44				
20	QPSK	1	0	16.37	16.53	16.45				
20	QPSK	1	0	16.38	16.54	16.46				
20	QPSK	1	0	16.39	16.55	16.47				
20	QPSK	1	0	16.40	16.56	16.48				
20	QPSK	1	0	16.41	16.57	16.49				
20	QPSK	1	0	16.42	16.58	16.50				
20	QPSK	1	0	16.43	16.59	16.51				
20	QPSK	1	0	16.44	16.60	16.52				
20	QPSK	1	0	16.45	16.61	16.53				
20	QPSK	1	0	16.46	16.62	16.54				
20	QPSK	1	0	16.47	16.63	16.55				
20	QPSK	1	0	16.48	16.64	16.56				
20	QPSK	1	0	16.49	16.65	16.57				
20	QPSK	1	0	16.50	16.66	16.58				
20	QPSK	1	0	16.51	16.67	16.59				
20	QPSK	1	0	16.52	16.68	16.60				
20	QPSK	1	0	16.53	16.69	16.61				
20	QPSK	1	0	16.54	16.70	16.62				
20	QPSK	1	0	16.55	16.71	16.63				
20	QPSK	1	0	16.56	16.72	16.64				
20	QPSK	1	0	16.57	16.73	16.65				
20	QPSK	1	0	16.58	16.74	16.66				
20	QPSK	1	0	16.59	16.75	16.67				
20	QPSK	1	0	16.60	16.76	16.68				
20	QPSK	1	0	16.61	16.77	16.69				
20	QPSK	1	0	16.62	16.78	16.70				
20	QPSK	1	0	16.63	16.79	16.71				
20	QPSK	1	0	16.64	16.80	16.72				
20	QPSK	1	0	16.65	16.81	16.73				
20	QPSK	1	0	16.66	16.82	16.74				
20	QPSK	1	0	16.67	16.83	16.75				
20	QPSK	1	0	16.68	16.84	16.76				
20	QPSK	1	0	16.69	16.85	16.77				
20	QPSK	1	0	16.70	16.86	16.78				
20	QPSK	1	0	16.71	16.87	16.79				
20	QPSK	1	0	16.72	16.88	16.80				
20	QPSK	1	0	16.73	16.89	16.81				
20	QPSK	1	0	16.74	16.90	16.82				
20	QPSK	1	0	16.75	16.91	16.83				
20	QPSK	1	0	16.76	16.92	16.84				
20	QPSK	1	0	16.77	16.93	16.85				
20	QPSK	1	0	16.78	16.94	16.86				
20	QPSK	1	0	16.79	16.95	16.87				
20	QPSK	1	0	16.80	16.96	16.88				
20	QPSK	1	0	16.81	16.97	16.89				
20	QPSK	1	0	16.82	16.98	16.90				
20	QPSK	1	0	16.83	16.99	16.91				
20	QPSK	1	0	16.84	17.00	16.92				
20	QPSK	1	0	16.85	17.01	16.93				
20	QPSK	1	0	16.86	17.02	16.94				
20	QPSK	1	0	16.87	17.03	16.95				
20	QPSK	1	0	16.88	17.04	16.96				
20	QPSK	1	0	16.89	17.05	16.97				
20	QPSK	1	0	16.90	17.06	16.98				
20	QPSK	1	0	16.91	17.07	16.99				
20	QPSK	1	0	16.92	17.08	17.00				
20	QPSK	1	0	16.93	17.09	17.01				
20	QPSK	1	0	16.94	17.10	17.02				
20	QPSK	1	0	16.95	17.11	17.03				
20	QPSK	1	0	16.96	17.12	17.04				
20	QPSK	1	0	16.97	17.13	17.05				
20	QPSK	1	0	16.98	17.14	17.06				
20	QPSK	1	0	16.99	17.15	17.07				
20	QPSK	1	0	17.00	17.16	17.08				
20	QPSK	1	0	17.01	17.17	17.09				
20	QPSK	1	0	17.02	17.18	17.10				
20	QPSK	1	0	17.03	17.19	17.11				
20	QPSK	1	0	17.04	17.20	17.12				
20	QPSK	1	0	17.05	17.21	17.13				
20	QPSK	1	0	17.06	17.22	17.14				
20	QPSK	1	0	17.07	17.23	17.15				
20	QPSK	1	0	17.08	17.24	17.16				
20	QPSK	1	0	17.09	17.25	17.17				
20	QPSK	1	0	17.10	17.26	17.18				
20	QPSK	1	0	17.11	17.27	17.19				
20	QPSK	1	0	17.12	17.28	17.20				
20	QPSK	1	0	17.13	17.29	17.21				
20	QPSK	1	0	17.14	17.30	17.22				
20	QPSK	1	0	17.15	17.31	17.23				
20	QPSK	1	0	17.16	17.32	17.24				
20	QPSK	1	0	17.17	17.33	17.25				
20	QPSK	1	0	17.18	17.34	17.26				
20	QPSK	1	0	17.19	17.35	17.27				
20	QPSK	1	0	17.20	17.36	17.28				
20	QPSK	1	0	17.21	17.37	17.29				
20	QPSK	1	0	17.22	17.38	17.30				
20	QPSK	1	0	17.23	17.39	17.31				
20	QPSK	1	0	17.24	17.40	17.32				
20	QPSK	1	0	17.25	17.41	17.33				
20	QPSK	1	0	17.26	17.42	17.34				



Band 38_Ant 0										
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)										
20	QPSK	1	0	22.81	22.84	22.86				
20	QPSK	1	49	22.83	22.82	22.85			24	0
20	QPSK	1	99	22.80	22.86	22.83				
20	QPSK	50	0	21.64	21.31	21.52				
20	QPSK	50	24	21.78	21.37	21.58			23	1
20	QPSK	50	60	21.54	21.25	21.28				
20	QPSK	100	0	21.85	21.59	21.28				
20	16QAM	1	0	21.41	21.37	21.28				
20	16QAM	1	49	21.82	21.27	21.33			23	1
20	16QAM	1	99	21.54	21.25	21.30				
20	16QAM	50	0	20.81	20.23	20.30				
20	16QAM	50	24	20.59	20.25	20.31			22	2
20	16QAM	50	49	20.52	20.29	20.28				
20	16QAM	100	0	20.56	20.24	20.31				
20	64QAM	1	0	20.32	20.03	20.07			22	2
20	64QAM	1	49	20.38	20.01	20.02				
20	64QAM	50	0	19.59	19.31	19.34				
20	64QAM	50	24	19.61	19.26	19.35			21	3
20	64QAM	50	49	19.58	19.25	19.28				
20	256QAM	1	0	19.82	19.29	19.28				
20	256QAM	1	49	17.24	17.34	17.50				
20	256QAM	1	99	17.27	17.24	17.31			19	5
20	256QAM	50	0	17.35	17.09	17.33				
20	256QAM	50	24	17.14	17.25	17.30			19	5
20	256QAM	50	49	17.22	17.20	17.22				
20	256QAM	100	0	17.30	17.30	17.20				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.77	22.38	22.36				
15	QPSK	1	37	22.78	22.37	22.35			24	0
15	QPSK	1	74	22.70	22.39	22.38				
15	QPSK	36	0	21.70	21.33	21.29				
15	QPSK	36	20	21.69	21.25	21.20			23	1
15	QPSK	36	39	21.68	21.24	21.24				
15	16QAM	1	0	21.72	21.33	21.29				
15	16QAM	1	37	21.79	21.35	21.31			23	1
15	16QAM	1	74	21.69	21.23	21.27				
15	16QAM	36	0	20.71	20.23	20.27				
15	16QAM	36	20	20.53	20.11	20.24			22	2
15	16QAM	36	39	20.60	20.17	20.25				
15	16QAM	75	0	20.69	20.28	20.30				
15	64QAM	1	0	20.11	20.11	20.24				
15	64QAM	1	37	20.52	20.01	20.02			22	2
15	64QAM	1	74	20.52	20.08	20.08				
15	64QAM	36	0	19.73	19.35	19.27				
15	64QAM	36	20	19.70	19.27	19.31			21	3
15	64QAM	36	39	19.73	19.34	19.38				
15	256QAM	1	0	17.23	17.34	17.20				
15	256QAM	1	37	17.17	17.25	17.32			19	5
15	256QAM	1	74	17.19	17.10	17.15				
15	256QAM	36	0	17.11	17.32	17.34				
15	256QAM	36	20	17.09	17.20	17.31			19	5
15	256QAM	36	39	17.34	17.35	17.22				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.81	22.29	22.34				
10	QPSK	1	25	22.81	22.31	22.29			24	0
10	QPSK	1	50	22.80	22.26	22.28				
10	QPSK	25	0	21.77	21.40	21.52				
10	QPSK	25	12	21.71	21.25	21.20			23	1
10	QPSK	25	24	21.74	21.18	21.20				
10	QPSK	50	0	21.78	21.24	21.21				
10	16QAM	1	0	21.78	21.24	21.21				
10	16QAM	1	25	21.78	21.24	21.28			23	1
10	16QAM	1	49	21.66	21.29	21.30				
10	16QAM	25	0	20.73	20.22	20.30				
10	16QAM	25	12	20.65	20.16	20.21			22	2
10	16QAM	25	24	20.62	20.25	20.16				
10	16QAM	50	0	20.73	20.22	20.30				
10	64QAM	1	0	20.52	20.01	20.03			22	2
10	64QAM	1	25	20.51	20.14	20.05				
10	64QAM	1	49	20.46	20.03	20.03				
10	64QAM	25	0	19.75	19.28	19.21			21	3
10	64QAM	25	12	19.62	19.28	19.38				
10	64QAM	25	24	19.71	19.15	19.20				
10	64QAM	50	0	19.75	19.26	19.27				
10	256QAM	1	0	17.23	17.34	17.20				
10	256QAM	1	25	17.17	17.35	17.32			19	5
10	256QAM	1	49	17.10	17.10	17.15				
10	256QAM	25	0	17.11	17.32	17.34				
10	256QAM	25	12	17.09	17.20	17.31			19	5
10	256QAM	25	24	17.34	17.35	17.22				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.84	22.29	22.29				
5	QPSK	1	12	22.80	22.46	22.25			24	0
5	QPSK	1	24	22.78	22.43	22.46				
5	QPSK	12	0	21.70	21.40	21.25				
5	QPSK	12	6	21.71	21.17	21.20			23	1
5	QPSK	12	13	21.62	21.23	21.16				
5	QPSK	25	0	21.75	21.15	21.17				
5	16QAM	1	0	21.68	21.39	21.31				
5	16QAM	1	12	21.72	21.33	21.23			23	1
5	16QAM	1	24	21.70	21.17	21.40				
5	16QAM	12	0	20.73	20.32	20.21				
5	16QAM	12	6	20.66	20.09	20.30			22	2
5	16QAM	12	13	20.50	20.27	20.26				
5	16QAM	25	0	20.77	20.19	20.30				
5	64QAM	1	0	20.50	20.35	20.04				
5	64QAM	1	12	20.62	20.09	20.07			22	2
5	64QAM	1	24	20.53	20.10	20.03				
5	64QAM	12	0	19.65	19.20	19.24			21	3
5	64QAM	12	6	19.59	19.21	19.20				
5	64QAM	12	13	19.74	19.30	19.45				
5	256QAM	1	0	17.23	17.34	17.20				
5	256QAM	1	12	17.17	17.35	17.32			19	5
5	256QAM	1	24	17.19	17.10	17.15				
5	256QAM	12	0	17.11	17.32	17.34				
5	256QAM	12	6	17.11	17.32	17.34			19	5
5	256QAM	12	13	17.09	17.20	17.31				
5	256QAM	25	0	17.34	17.35	17.22				

Band 38_Ant 2										
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)										
20	QPSK	1	0	24.54	24.30	24.38				
20	QPSK	1	49	24.55	24.38	24.36			25.5	0
20	QPSK	1	99	24.51	24.33	24.31				
20	QPSK	50	0	23.57	23.32	23.39				
20	QPSK	50	24	23.55	23.25	23.38			24.5	1
20	QPSK	50	49	23.53	23.35	23.38				
20	QPSK	100	0	23.48	23.27	23.41				
20	16QAM	1	0	23.61	23.31	23.35				
20	16QAM	1	49	23.50	23.36	23.34			24.5	1
20	16QAM	1	99	23.56	23.38	23.35				
20	16QAM	50	0	22.91	22.39	22.38				
20	16QAM	50	24	22.59	22.33	22.39			23.5	2
20	16QAM	50	49	22.55	22.35	22.40				
20	16QAM	100	0	22.51	22.25	22.38				
20	64QAM	1	0	22.29	22.06	22.05			23.5	2
20	64QAM	1	49	22.33	22.16	22.16				
20	64QAM	1	99	22.28	22.00	22.11				
20	64QAM	50	0	21.50	21.31	21.38				
20	64QAM	50	24	21.55	21.31	21.40			22.5	3
20	64QAM	50	49	21.54	21.35	21.42				
20	256QAM	1	0	21.55	21.27	21.27				
20	256QAM	1	49	19.05	19.33	19.23				
20	256QAM	1	99	19.38	19.45	19.38				
20	256QAM	50	0	19.32	18.95	19.03				
20	256QAM	50	24	19.38	19.27	19.37			20.5	5
20	256QAM	50	49	19.36	19.11	19.34				
20	256QAM	100	0	19.32	19.40	19.42				
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.61	24.30	24.32				
15	QPSK	1	37	24.66	24.36	24.30			25.5	0
15	QPSK	1	74	24.60	24.34	24.34				
15	QPSK	36	0	23.61	23.27	23.31				
15	QPSK	36	20	23.52	23.24	23.28			24.5	1
15	QPSK	36	39	23.55	23.23	23.29				
15	16QAM	1	0	23.51	23.24	23.29				
15	16QAM	1	37	23.57	23.31	23.33			24.5	1
15	16QAM	1	74	23.45	23.18	23.38				
15	16QAM	36	0	22.44	22.18	22.30				
15	16QAM	36	20	22.45	22.14	22.24			23.5	2
15	16QAM	36	39	22.54	22.18	22.29				
15	16QAM									



Band 38_Ant 5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MRR (dB)			
Channel										
Frequency (MHz)										
30	QPSK	1	0	13.50	13.82	13.82				
30	QPSK	1	49	13.91	13.87	13.84			15	0
30	QPSK	50	0	13.94	14.03	14.00				
30	QPSK	50	0	14.11	13.93	14.00				
30	QPSK	50	24	14.03	13.84	13.95			15	0
30	QPSK	100	0	14.02	13.96	13.97				
30	16QAM	1	0	14.08	14.05	14.01				
30	16QAM	1	49	14.14	14.13	14.10			15	0
30	16QAM	1	99	14.18	14.16	14.15				
30	16QAM	50	0	14.07	14.04	14.00				
30	16QAM	50	24	14.07	13.98	14.00			15	0
30	16QAM	100	0	14.06	14.02	14.07				
30	16QAM	100	0	14.00	13.95	13.97				
30	64QAM	1	0	13.98	14.01	13.94				
30	64QAM	1	49	14.05	14.03	14.01			15	0
30	64QAM	1	99	14.13	14.01	14.00				
30	64QAM	50	0	14.01	13.93	14.04				
30	64QAM	50	24	14.07	14.04	14.03			15	0
30	64QAM	100	0	14.03	14.04	13.97				
30	64QAM	100	0	13.96	13.97	13.96				
30	256QAM	1	0	13.80	13.95	13.87				
30	256QAM	1	49	13.94	13.86	13.89			15	0
30	256QAM	1	99	14.09	13.99	14.00				
30	256QAM	50	0	13.86	13.81	13.81				
30	256QAM	50	24	13.89	13.87	13.91			15	0
30	256QAM	100	0	13.89	13.86	13.86				
30	256QAM	100	0	13.87	13.79	13.88				
Channel										
Frequency (MHz)										
15	QPSK	1	0	23.72	23.91	24.12				
15	16QAM	1	0	23.87	23.78	23.74				
15	QPSK	1	37	23.86	23.99	24.09			15	0
15	QPSK	1	74	24.11	23.89	23.83				
15	QPSK	36	0	23.86	23.89	23.96				
15	QPSK	36	20	23.87	24.02	23.94			15	0
15	QPSK	36	38	23.97	23.94	24.02				
15	16QAM	1	0	24.01	24.03	24.07				
15	16QAM	1	37	24.04	24.00	24.01			15	0
15	16QAM	1	74	24.14	24.05	24.00				
15	16QAM	36	0	23.99	23.92	23.93				
15	16QAM	36	20	23.99	24.02	24.04			15	0
15	16QAM	36	38	23.99	23.98	23.97				
15	64QAM	1	0	23.94	23.94	23.94				
15	64QAM	1	37	24.03	23.95	23.92			15	0
15	64QAM	1	74	24.11	23.91	23.97				
15	64QAM	36	0	23.95	23.92	23.97				
15	64QAM	36	20	23.95	24.02	24.04			15	0
15	64QAM	36	38	23.95	23.97	23.96				
15	256QAM	1	0	23.70	23.87	23.79				
15	256QAM	1	37	23.81	23.83	23.84			15	0
15	256QAM	1	74	24.06	23.86	23.89				
15	256QAM	36	0	23.86	23.87	23.90				
15	256QAM	36	20	23.86	24.02	24.04			15	0
15	256QAM	36	38	23.86	23.87	23.86				
15	256QAM	36	38	23.83	23.83	23.79				
15	256QAM	36	38	23.84	23.77	23.87				
Channel										
Frequency (MHz)										
5	QPSK	1	0	13.84	13.75	13.75				
5	QPSK	1	12	13.85	13.85	13.82				
5	QPSK	1	24	14.13	13.82	13.82			15	0
5	QPSK	12	0	14.11	13.89	13.86				
5	QPSK	12	7	13.88	13.87	13.86				
5	QPSK	12	13	14.02	14.01	13.91			15	0
5	QPSK	25	0	13.86	13.86	13.86				
5	16QAM	1	0	14.01	14.00	14.01				
5	16QAM	1	12	14.10	14.08	14.05			15	0
5	16QAM	1	24	14.15	14.15	14.13				
5	16QAM	12	0	13.84	14.01	13.97				
5	16QAM	12	7	13.86	13.86	14.00				
5	16QAM	12	13	14.00	13.92	14.00			15	0
5	16QAM	25	0	14.00	13.85	13.86				
5	64QAM	1	0	13.87	13.80	13.96				
5	64QAM	1	12	13.98	13.98	13.96			15	0
5	64QAM	1	24	14.13	13.84	14.04				
5	64QAM	12	0	14.00	13.87	13.95				
5	64QAM	12	7	13.96	13.97	13.94			15	0
5	64QAM	12	13	13.92	13.85	13.86				
5	64QAM	25	0	13.96	13.77	13.79				
5	64QAM	25	0	13.86	13.75	13.81				
5	256QAM	1	0	13.71	13.93	13.79				
5	256QAM	1	12	13.91	13.81	13.86			15	0
5	256QAM	1	24	14.02	13.79	13.96				
5	256QAM	12	0	13.76	13.71	13.86				
5	256QAM	12	7	13.82	13.85	13.86			15	0
5	256QAM	12	13	13.86	13.77	13.79				
5	256QAM	25	0	13.86	13.75	13.81				

Band 41_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MRR (dB)				
Channel											
Frequency (MHz)											
30	QPSK	1	0	23.04	23.24	23.38	23.24	23.09			
30	QPSK	1	49	23.10	23.31	23.35	23.25	23.18		24	0
30	QPSK	50	0	23.15	23.48	23.47	23.33	23.25			
30	QPSK	50	0	22.15	22.42	22.41	22.36	22.21			
30	QPSK	50	24	22.11	22.27	22.32	22.22	22.11		23	1
30	QPSK	50	49	22.14	22.35	22.37	22.27	22.11			
30	QPSK	100	0	22.12	22.38	22.37	22.25	22.13			
30	16QAM	1	0	22.11	22.30	22.32	22.21	22.12			
30	16QAM	1	49	22.12	22.24	22.30	22.24	22.14		23	1
30	16QAM	1	99	22.13	22.27	22.26	22.21	22.08			
30	16QAM	50	0	21.99	21.28	21.45	21.24	21.22			
30	16QAM	50	24	21.11	21.31	21.43	21.27	21.19		22	2
30	16QAM	100	0	21.15	21.25	21.36	21.27	21.15			
30	64QAM	1	0	20.92	20.98	21.18	20.96	20.85			
30	64QAM	1	49	20.92	20.98	21.03	20.92	20.87			
30	64QAM	1	99	20.80	20.88	21.03	20.81	20.76			
30	64QAM	50	0	20.98	20.95	20.99	20.91	20.78		21	3
30	64QAM	50	24	20.98	20.95	20.98	20.93	20.74			
30	64QAM	50	49	20.13	20.20	20.33	20.23	20.13			
30	64QAM	100	0	20.08	20.34	20.31	20.18	20.17			
30	256QAM	1	0	17.80	17.89	17.94	17.72	17.65			
30	256QAM	1	49	17.80	17.88	17.90	17.85	17.70		19	5
30	256QAM	1	99	17.63	17.83	17.88	17.78	17.71			
30	256QAM	50	0	17.84	17.70	17.89	17.81	17.82			
30	256QAM	50	24	17.85	17.75	17.83	17.83	17.88			
30	256QAM	50	49	17.71	17.74	17.81	17.85	17.86		19	5
30	256QAM	100	0	17.82	17.71	17.82	17.85	17.74			
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.12	23.31	23.45	23.24	23.27			
15	QPSK	1	37	23.14	23.26	23.35	23.27	23.08		24.00	0
15	QPSK	1	74	23.11	23.23	23.42	23.22	23.06			
15	QPSK	36	0	23.16	23.16	23.27	23.23	23.25			
15	QPSK	36	20	23.14	23.24	23.35	23.19	23.24			
15	QPSK	36	38	23.05	23.18	23.28	23.27	23.07			
15	QPSK	36	38	23.10	23.22	23.31	23.21	23.12			
15	16QAM	1	0	22.11	22.32	22.41	22.30	22.17			
15	16QAM	1	37	22.18	22.14	22.22	22.26	22.21		23	1
15	16QAM	1	74	23.13	23.24	23.29	23.22	23.10			
15	16QAM	36	0	21.14	21.38	21.51	21.20	21.15			
15	16QAM	36	20	21.07	21.24	21.35	21.20	21.15			
15	16QAM	36	38	21.18	21.22	21.28	21.27	21.20		22	2
15	16QAM	75	0	21.18	21.25	21.40	21.26	21.10			
15	64QAM	1	0	20.86	20.87	21.00	20.82	20.80			
15	64QAM	1	37	20.74	21.03	21.05	20.82	20.75		22	2
15	64QAM	1	74	20.85	20.86	20.98	20.84	20.84			
15	64QAM	36	0	20.95	20.92	20.95	20.11	20.24			
15	64QAM	36	20	20.15	20.30	20.38	20.23	20.28		21	3
15	64QAM	36	38	20.98	20.98	20.98	20.24	20.19			
15	64QAM	75	0	19.99	20.22	20.27	20.18	20.22			
15	256QAM	1	0	17.82	17.71	17.83	17.79	17.88			
15	256QAM	1	37	17.68	17.89	17.89	17.81	17.81		19	5
15	256QAM	1	74	17.89	17.85	17.88	17.88	17.71			
15	256QAM	36	0	17.79	17.87	17.8					



Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch / Freq	Tune-up limit (dBm)	MPE (dB)				
Channel				39750	40165	40620	41055	41460		
Frequency (MHz)										
30	QPSK	1	0	16.13	16.29	16.51	16.43	16.49		
30	QPSK	1	49	16.14	16.40	16.57	16.35	16.48	16.7	0
30	QPSK	1	99	16.21	16.60	16.61	16.51	16.37		
30	QPSK	50	0	16.18	16.68	16.67	16.47	16.54		
30	QPSK	50	24	16.16	16.67	16.43	16.41	16.44		
30	QPSK	50	50	16.02	16.30	16.45	16.43	16.43	16.7	0
30	QPSK	100	0	16.06	16.52	16.50	16.41	16.51		
30	IQAM	1	0	16.16	16.31	16.33	16.41	16.56		
30	IQAM	1	49	16.02	16.43	16.30	16.47	16.50	16.7	0
30	IQAM	1	99	16.10	16.27	16.27	16.47	16.43		
30	IQAM	50	0	16.09	16.63	16.30	16.40	16.54		
30	IQAM	50	24	16.13	16.52	16.50	16.44	16.53	16.7	0
30	IQAM	50	50	16.02	16.40	16.50	16.44	16.46		
30	IQAM	100	0	16.10	16.54	16.43	16.43	16.47		
30	IQAM	1	0	16.16	16.65	16.50	16.20	16.16	16.7	0
30	IQAM	1	49	16.14	16.33	16.20	16.03	16.19		
30	IQAM	1	99	16.12	16.19	16.11	16.16	16.22		
30	IQAM	50	0	16.05	16.47	16.26	16.40	16.53		
30	IQAM	50	24	16.12	16.62	16.30	16.35	16.52	16.7	0
30	IQAM	50	50	16.14	16.49	16.40	16.40	16.44		
30	IQAM	100	0	16.10	16.30	16.37	16.39	16.50		
30	SSBQAM	1	0	16.28	16.13	16.10	16.27	16.00		
30	SSBQAM	1	49	16.38	16.13	16.00	16.19	16.14	16.7	0
30	SSBQAM	1	99	16.16	16.16	16.00	16.20	16.32		
30	SSBQAM	50	0	16.20	16.18	16.43	16.03	16.39		
30	SSBQAM	50	24	16.27	16.40	16.41	16.17	16.20	16.7	0
30	SSBQAM	50	50	16.12	16.14	16.16	16.27	16.22		
30	SSBQAM	100	0	16.07	16.19	16.15	16.33	16.27		
Channel										
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Tune-up limit (dBm)	MPE (dB)
15	QPSK	1	0	16.09	16.21	16.46	16.30	16.40		
15	QPSK	1	37	16.09	16.32	16.60	16.34	16.38	16.70	0
15	QPSK	1	74	16.07	16.62	16.58	16.50	16.50		
15	QPSK	36	0	16.07	16.60	16.61	16.37	16.41		
15	QPSK	36	20	16.06	16.20	16.51	16.40	16.42	16.7	0
15	QPSK	36	39	16.02	16.24	16.41	16.39	16.35		
15	QPSK	75	0	16.05	16.48	16.48	16.32	16.40		
15	IQAM	1	0	16.11	16.28	16.30	16.33	16.46		
15	IQAM	1	37	16.01	16.36	16.24	16.46	16.49	16.7	0
15	IQAM	1	74	16.16	16.31	16.50	16.29	16.32		
15	IQAM	36	0	16.09	16.37	16.29	16.35	16.44		
15	IQAM	36	20	16.07	16.30	16.50	16.32	16.48	16.7	0
15	IQAM	36	39	16.10	16.33	16.32	16.41	16.38		
15	IQAM	75	0	16.04	16.37	16.31	16.43	16.38		
15	IQAM	1	0	16.14	16.04	16.00	16.19	16.07		
15	IQAM	1	37	16.13	16.11	16.17	16.03	16.12	16.7	0
15	IQAM	1	74	15.97	16.41	16.25	16.30	16.47		
15	IQAM	36	0	16.10	16.22	16.30	16.30	16.45		
15	IQAM	36	20	16.03	16.52	16.34	16.24	16.41	16.7	0
15	IQAM	36	39	16.14	16.47	16.47	16.44	16.41		
15	IQAM	75	0	16.10	16.22	16.30	16.30	16.45		
15	SSBQAM	1	0	16.17	16.12	16.14	16.26	16.02		
15	SSBQAM	1	37	16.34	16.11	16.36	16.09	16.04	16.7	0
15	SSBQAM	1	74	16.05	16.12	16.22	16.28	16.31		
15	SSBQAM	36	0	16.10	16.00	16.30	16.30	16.31		
15	SSBQAM	36	20	16.27	16.00	16.25	16.05	16.15	16.7	0
15	SSBQAM	36	39	16.08	16.04	16.10	16.21	16.19		
15	SSBQAM	75	0	16.07	16.00	16.20	16.22	16.04		
Channel										
Frequency (MHz)				39750	40165	40620	41055	41460	Tune-up limit (dBm)	MPE (dB)
10	QPSK	1	0	16.09	16.25	16.20	16.37	16.39		
10	QPSK	1	25	16.14	16.37	16.50	16.24	16.37	16.70	0
10	QPSK	1	50	16.06	16.60	16.44	16.46	16.46		
10	QPSK	25	0	16.02	16.65	16.56	16.44	16.46		
10	QPSK	25	12	16.11	16.30	16.56	16.32	16.37	16.7	0
10	QPSK	25	37	16.01	16.23	16.37	16.33	16.41		
10	QPSK	50	0	16.04	16.31	16.48	16.38	16.37		
10	IQAM	1	0	16.16	16.31	16.31	16.37	16.46		
10	IQAM	1	49	16.13	16.48	16.17	16.40	16.41	16.7	0
10	IQAM	25	0	16.09	16.37	16.38	16.46	16.58		
10	IQAM	25	12	16.07	16.50	16.20	16.36	16.49	16.7	0
10	IQAM	25	37	16.15	16.40	16.37	16.40	16.47		
10	IQAM	50	0	16.09	16.39	16.42	16.42	16.38		
10	IQAM	1	0	16.09	16.55	16.01	16.19	16.10	16.7	0
10	IQAM	1	24	16.03	16.08	16.00	16.10	16.21		
10	IQAM	1	49	16.03	16.08	16.00	16.10	16.21		
10	IQAM	25	0	16.04	16.44	16.20	16.39	16.46	16.7	0
10	IQAM	25	12	16.08	16.45	16.42	16.48	16.40		
10	IQAM	50	0	16.02	16.39	16.34	16.30	16.43		
10	SSBQAM	1	0	16.22	16.12	16.12	16.16	16.00		
10	SSBQAM	1	25	16.33	16.11	16.00	16.28	16.08	16.7	0
10	SSBQAM	1	49	16.11	16.30	16.17	16.28	16.30		
10	SSBQAM	25	0	16.14	16.14	16.35	16.30	16.34		
10	SSBQAM	25	12	16.21	16.16	16.26	16.12	16.28	16.7	0
10	SSBQAM	25	37	16.04	16.04	16.30	16.20	16.14		
10	SSBQAM	50	0	16.09	16.39	16.20	16.27	16.23		
Channel										
Frequency (MHz)				2488.5	2543.8	2599	2640.3	2687.5	Tune-up limit (dBm)	MPE (dB)
5	QPSK	1	0	16.12	16.26	16.48	16.37	16.39		
5	QPSK	1	10	16.03	16.35	16.43	16.24	16.40	16.70	0
5	QPSK	1	24	16.04	16.64	16.54	16.50	16.55		
5	QPSK	12	0	16.12	16.61	16.56	16.46	16.53		
5	QPSK	12	7	16.07	16.23	16.30	16.39	16.42	16.7	0
5	QPSK	12	13	16.01	16.52	16.46	16.39	16.38		
5	QPSK	25	0	16.06	16.44	16.47	16.36	16.46		
5	QPSK	25	0	16.15	16.27	16.20	16.38	16.55		
5	IQAM	1	0	16.08	16.41	16.28	16.41	16.43	16.7	0
5	IQAM	1	24	16.11	16.30	16.16	16.44	16.41		
5	IQAM	12	0	16.01	16.36	16.20	16.31	16.52		
5	IQAM	12	7	16.03	16.43	16.33	16.37	16.47	16.7	0
5	IQAM	12	13	16.12	16.32	16.12	16.41	16.39		
5	IQAM	25	0	16.07	16.38	16.40	16.34	16.44		
5	IQAM	1	0	16.06	16.34	16.01	16.16	16.07		
5	IQAM	1	12	16.08	16.07	16.10	16.01	16.15	16.7	0
5	IQAM	1	24	16.06	16.12	16.05	16.08	16.20		
5	IQAM	12	0	16.07	16.34	16.20	16.40	16.46		
5	IQAM	12	7	16.04	16.41	16.30	16.39	16.49	16.7	0
5	IQAM	12	13	16.04	16.39	16.43	16.47	16.39		
5	IQAM	25	0	16.03	16.22	16.28	16.30	16.46		
5	SSBQAM	1	0	16.21	16.11	16.10	16.23	16.02	16.7	0
5	SSBQAM	1	10	16.20	16.04	16.02	16.08	16.03		
5	SSBQAM	1	24	16.07	16.07	16.21	16.21	16.26		
5	SSBQAM	12	0	16.10	16.16	16.41	16.01	16.31	16.7	0
5	SSBQAM	12	7	16.24	16.16	16.31	16.07	16.25		
5	SSBQAM	12	13	16.08	16.14	16.05	16.16	16.19		
5	SSBQAM	25	0	16.04	16.15	16.04	16.26	16.27		

Band 41_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Line Ch / Freq	Tune-up limit (dBm)	MPE (dB)				
Channel				39750	40165	40620	41055	41460		
Frequency (MHz)										
30	QPSK	1	0	13.04	13.07	13.35	13.35	13.08		
30	QPSK	1	49	13.16	13.29	13.38	13.26	13.09	14	0
30	QPSK	1	99	13.38	13.31	13.42	13.37	13.29		
30	QPSK	50	0	13.35	13.58	13.41	13.28	13.24		
30	QPSK	50	24	13.17	13.45	13.45	13.25	13.21	14	0
30	QPSK	50	50	13.29	13.46	13.46	13.41	13.24		
30	QPSK	100	0	13.15	13.51	13.46	13.41	13.24		
30	IQAM	1	0	13.31	13.33	13.60	13.55	13.38		
30	IQAM	1	49	13.42	13.60	13.72	13.58	13.35	14	0
30	IQAM	1	99	13.49	13.70	13.81	13.55	13.36		
30	IQAM	50	0	13.17	13.28	13.45	13.44	13.18		
30	IQAM	50	24	13.26	13.36	13.52	13.52	13.29	14	0
30	IQAM	50	50	13.24						







Band 7_Ant 3										
BW (MHz)	Multicast	FE Size	FE Offset	Power Ch. 1 (dBm)	Power Ch. 2 (dBm)	Power Ch. 3 (dBm)	Time Int. (min)	LFMT (MHz)	LFMT (MHz)	LFMT (MHz)
Channel										
Frequency (MHz)										
20	OPSC	1	0	18.18	18.22	18.18	20.2	0		
20	OPSC	1	40	18.14	18.18	18.22				
20	OPSC	1	80	18.10	18.14	18.18				
20	OPSC	30	24	18.12	18.08	18.24	20.2	0		
20	OPSC	30	20	18.16	18.20	18.12				
20	OPSC	100	2	18.08	18.11	18.07				
20	ICMAN	1	44	18.07	18.21	18.19	20.2	0		
20	ICMAN	35	39	18.19	18.13	18.17				
20	ICMAN	35	4	18.14	18.11	18.17				
20	ICMAN	30	24	18.20	18.20	18.20	20.2	0		
20	ICMAN	30	20	18.20	18.16	18.24				
20	ICMAN	100	2	18.05	18.08	18.05				
20	ICMAN	1	48	18.08	18.14	18.09	20.2	0		
20	ICMAN	1	44	18.07	18.21	18.09				
20	ICMAN	30	2	18.81	18.08	18.15				
20	ICMAN	30	30	18.07	18.17	18.16	20.2	0		
20	ICMAN	30	26	18.09	18.06	18.12				
20	ICMAN	1	4	18.07	18.02	18.19				
20	ZICMAN	1	40	18.00	18.00	18.11	20.2	0		
20	ZICMAN	30	0	18.70	18.00	18.14				
20	ZICMAN	30	24	18.70	18.00	18.15	20.2	0		
20	ZICMAN	30	20	18.70	18.04	18.03				
20	ZICMAN	100	2	18.04	18.01	18.14				
Channel										
Frequency (MHz)										
15	OPSC	1	0	18.07	18.17	18.04	20.2	0		
15	OPSC	1	44	18.11	18.10	18.02				
15	OPSC	30	0	18.14	18.10	18.00	20.2	0		
15	OPSC	30	20	18.04	18.00	18.00				
15	OPSC	30	24	18.03	18.04	18.01				
15	OPSC	70	0	18.00	18.00	18.00				
15	ICMAN	1	2	18.07	18.09	18.17	20.2	0		
15	ICMAN	1	74	18.10	18.11	18.21				
15	ICMAN	30	20	18.02	18.02	18.02	20.2	0		
15	ICMAN	30	24	18.02	18.02	18.02				
15	ICMAN	70	0	18.00	18.00	18.00				
15	ICMAN	1	37	18.07	18.17	18.05	20.2	0		
15	ICMAN	1	74	18.07	18.10	18.05				
15	ICMAN	30	20	18.00	18.00	18.07	20.2	0		
15	ICMAN	30	24	18.07	18.12	18.12				
15	ICMAN	70	0	18.00	18.00	18.07				
15	ZICMAN	1	37	18.03	18.08	18.11	20.2	0		
15	ZICMAN	30	20	18.07	18.07	18.12				
15	ZICMAN	30	24	18.07	18.07	18.12	20.2	0		
15	ZICMAN	30	20	18.70	18.04	18.04				
15	ZICMAN	70	0	18.74	18.00	18.12				
Channel										
Frequency (MHz)										
10	OPSC	1	0	18.16	18.14	18.16	20.2	0		
10	OPSC	1	24	18.20	18.18	18.21	20.2	0		
10	OPSC	20	0	18.08	18.11	18.06				
10	OPSC	20	20	18.00	18.00	18.04	20.2	0		
10	OPSC	35	24	18.00	18.00	18.04				
10	OPSC	70	0	18.04	18.00	18.00				
10	ICMAN	1	24	18.19	18.12	18.00	20.2	0		
10	ICMAN	40	0	18.00	18.00	18.00				
10	ICMAN	20	0	18.11	18.04	18.00	20.2	0		
10	ICMAN	20	12	18.02	18.00	18.01				
10	ICMAN	25	20	18.00	18.00	18.00				
10	ICMAN	30	20	18.00	18.00	18.00				
10	ICMAN	1	0	18.00	18.11	18.14	20.2	0		
10	ICMAN	1	44	18.10	18.10	18.01				
10	ICMAN	25	12	18.00	18.00	18.00	20.2	0		
10	ICMAN	30	0	18.00	18.13	18.11				
10	ICMAN	30	20	18.00	18.13	18.11				
10	ZICMAN	1	0	18.19	18.03	18.14	20.2	0		
10	ZICMAN	1	40	18.07	18.00	18.11				
10	ZICMAN	1	40	18.02	18.07	18.14	20.2	0		
10	ZICMAN	20	0	18.00	18.00	18.00				
10	ZICMAN	25	12	18.07	18.07	18.00	20.2	0		
10	ZICMAN	100	2	18.00	18.00	18.07				
10	ZICMAN	30	0	18.00	18.00	18.00				
Channel										
Frequency (MHz)										
5	OPSC	1	0	18.16	18.02	18.00	20.2	0		
5	OPSC	1	40	18.07	18.07	18.00				
5	OPSC	12	7	18.00	18.00	18.00	20.2	0		
5	OPSC	20	0	18.07	18.00	18.00				
5	ICMAN	1	12	18.07	18.12	18.16	20.2	0		
5	ICMAN	12	0	18.10	18.00	18.00				
5	ICMAN	12	7	18.00	18.00	18.04	20.2	0		
5	ICMAN	12	19	18.00	18.00	18.00				
5	ICMAN	20	0	18.00	18.01	18.00	20.2	0		
5	ICMAN	1	12	18.00	18.04	18.10	20.2	0		
5	ICMAN	24	24	18.14	18.00	18.00				
5	ICMAN	12	0	18.10	18.00	18.12	20.2	0		
5	ICMAN	12	13	18.07	18.11	18.13				
5	ICMAN	20	0	18.04	18.00	18.12				
5	ZICMAN	1	0	18.04	18.00	18.16	20.2	0		
5	ZICMAN	1	24	18.07	18.07	18.21				
5	ZICMAN	12	0	18.12	18.03	18.12	20.2	0		
5	ZICMAN	12	13	18.10	18.00	18.00				
5	ZICMAN	20	0	18.70	18.00	18.00				

Band 7_Ant 5										
BW (MHz)	Multicast	FE Size	FE Offset	Power Ch. 1 (dBm)	Power Ch. 2 (dBm)	Power Ch. 3 (dBm)	Time Int. (min)	LFMT (MHz)	LFMT (MHz)	LFMT (MHz)
Channel										
Frequency (MHz)										
20	OPSC	1	0	18.20	18.07	18.20	20.2	0		
20	OPSC	1	30	18.11	18.14	18.20				
20	OPSC	30	24	18.12	18.21	18.20	20.2	0		
20	OPSC	30	20	18.10	18.20	18.20				
20	OPSC	100	2	18.07	18.24	18.24				
20	ICMAN	1	44	18.10	18.00	18.00	20.2	0		
20	ICMAN	1	30	18.04	18.00	18.00				
20	ICMAN	30	24	18.20	18.20	18.20	20.2	0		
20	ICMAN	30	20	18.20	18.14	18.21				
20	ICMAN	100	2	18.12	18.20	18.20				
20	ICMAN	1	44	18.10	18.20	18.07	20.2	0		
20	ICMAN	30	2	18.00	18.20	18.40				
20	ICMAN	30	30	18.21	18.20	18.20	20.2	0		
20	ICMAN	30	26	18.10	18.00	18.00				
20	ICMAN	1	4	18.00	18.10	18.20				
20	ZICMAN	1	40	18.00	18.20	18.20	18.5	1		
20	ZICMAN	30	0	18.00	18.10	18.20				
20	ZICMAN	30	24	18.00	18.17	18.00	18.5	1		
20	ZICMAN	30	20	18.00	18.11	18.21				
Channel										
Frequency (MHz)										
18	OPSC	1	0	18.00	18.01	18.00	20.2	0		
18	OPSC	1	37	18.04	18.00	18.00				
18	OPSC	30	0	18.00	18.07	18.00	20.2	0		
18	OPSC	30	20	18.00	18.00	18.00				
18	OPSC	30	24	18.12	18.00	18.00				
18	ICMAN	1	0	18.27	18.00	18.00	20.2	0		
18	ICMAN	1	74	18.00	18.00	18.01				
18	ICMAN	30	20	18.00	18.00	18.00	20.2	0		
18	ICMAN	30	24	18.00	18.00	18.00				
18	ICMAN	70	0	18.12	18.00	18.00				
18	ICMAN	1	37	18.00	18.00	18.00	20.2	0		
18	ICMAN	1	74	18.00	18.00	18.13				
18	ICMAN	30	20	18.14	18.23	18.20	20.2	0		
18	ICMAN	70	0	18.00	18.00	18.00				
18	ZICMAN	1	37	18.00	18.21	18.27	18.5	1		
18	ZICMAN	30	0	18.00	18.00	18.00				
18	ZICMAN	30	20	18.00	18.10	18.10	18.5	1		
18	ZICMAN	70	0	18.00	18.00	18.00				
Channel										
Frequency (MHz)										
10	OPSC	1</								



Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)				37650	38050	38450				
20	QPSK	1	0	21.73	21.78	21.70				
20	QPSK	1	49	21.84	21.72	21.82			23	0
20	QPSK	1	99	22.00	21.80	21.90				
20	QPSK	50	0	21.88	21.76	21.72				
20	QPSK	50	24	21.76	21.76	21.74			23	0
20	QPSK	50	60	21.78	21.76	21.74				
20	QPSK	100	0	21.77	21.68	21.72				
20	16QAM	1	0	21.76	21.70	21.70				
20	16QAM	1	49	21.78	21.71	21.80			23	0
20	16QAM	1	99	21.88	21.72	21.75				
20	16QAM	50	0	20.75	20.79	20.80				
20	16QAM	50	24	20.75	20.79	20.79			22	1
20	16QAM	50	60	20.75	20.79	20.79				
20	16QAM	100	0	20.76	20.70	20.75				
20	64QAM	1	0	20.49	20.45	20.43			22	1
20	64QAM	1	49	20.52	20.46	20.51				
20	64QAM	1	99	20.57	20.45	20.43				
20	64QAM	50	0	19.71	19.75	19.72				
20	64QAM	50	24	19.76	19.74	19.75			21	2
20	64QAM	50	60	19.72	19.76	19.78				
20	64QAM	100	0	19.76	19.75	19.70				
20	256QAM	1	0	17.58	17.66	17.72				
20	256QAM	1	49	17.70	17.63	17.61			19	4
20	256QAM	1	99	17.66	17.62	17.60				
20	256QAM	50	0	17.58	17.56	17.68				
20	256QAM	50	24	17.37	17.56	17.27			19	4
20	256QAM	50	60	17.48	17.40	17.59				
20	256QAM	100	0	17.41	17.37	17.30				
Channel										
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)	MFR (dB)		
15	QPSK	1	0	21.70	21.77	21.65				
15	QPSK	1	37	21.79	21.69	21.75			23	0
15	QPSK	1	74	22.08	21.89	21.87				
15	QPSK	36	0	21.74	21.74	21.73			23	0
15	QPSK	36	20	21.74	21.64	21.73				
15	QPSK	36	39	21.78	21.68	21.71				
15	QPSK	75	0	21.73	21.67	21.63				
15	16QAM	1	0	21.72	21.63	21.72				
15	16QAM	1	37	21.88	21.85	21.70			23	0
15	16QAM	1	74	21.85	21.69	21.69				
15	16QAM	36	0	20.89	20.74	20.79			22	1
15	16QAM	36	20	20.75	20.70	20.68				
15	16QAM	36	39	20.66	20.60	20.72				
15	16QAM	75	0	20.38	20.41	20.37				
15	16QAM	75	0	20.51	20.44	20.42			22	1
15	16QAM	75	20	20.51	20.42	20.44				
15	16QAM	75	39	20.48	20.58	20.52				
15	16QAM	75	0	19.71	19.70	19.68			21	2
15	16QAM	75	20	19.73	19.64	19.75				
15	16QAM	75	39	19.71	19.70	19.68				
15	256QAM	1	0	17.50	17.65	17.70				
15	256QAM	1	37	17.65	17.65	17.59			19	4
15	256QAM	1	74	17.81	17.51	17.47				
15	256QAM	36	0	17.52	17.54	17.54				
15	256QAM	36	20	17.32	17.34	17.38			19	4
15	256QAM	36	39	17.45	17.33	17.25				
15	256QAM	75	0	17.41	17.27	17.20				
Channel										
Frequency (MHz)				37650	38050	38500	Tune-up limit (dBm)	MFR (dB)		
10	QPSK	1	0	21.69	21.76	21.70				
10	QPSK	1	25	21.75	21.66	21.78			23	0
10	QPSK	1	50	21.83	21.68	21.68				
10	QPSK	25	0	21.83	21.74	21.83				
10	QPSK	25	12	21.77	21.69	21.66			23	0
10	QPSK	25	37	21.77	21.74	21.69				
10	QPSK	50	0	21.72	21.62	21.69				
10	16QAM	1	0	21.71	21.60	21.73			23	0
10	16QAM	1	25	21.73	21.60	21.75				
10	16QAM	1	49	21.86	21.68	21.79				
10	16QAM	25	0	20.87	20.82	20.69			22	1
10	16QAM	25	12	20.74	20.86	20.72				
10	16QAM	25	37	20.86	20.79	20.86				
10	16QAM	50	0	20.42	20.38	20.33			22	1
10	16QAM	50	12	20.53	20.40	20.40				
10	16QAM	50	25	20.46	20.53	20.37				
10	16QAM	50	0	19.80	19.74	19.65				
10	16QAM	50	12	19.89	19.70	19.78			21	2
10	16QAM	50	25	19.89	19.86	19.75				
10	16QAM	50	0	19.73	19.86	19.87				
10	16QAM	50	12	17.52	17.61	17.66				
10	16QAM	50	25	17.58	17.47	17.50			19	4
10	16QAM	50	0	17.50	17.54	17.65				
10	16QAM	50	12	17.35	17.34	17.26			19	4
10	16QAM	50	25	17.41	17.23	17.27				
10	16QAM	50	0	17.38	17.37	17.30				
Channel										
Frequency (MHz)				2572.5	2590	2617.5	Tune-up limit (dBm)	MFR (dB)		
5	QPSK	1	0	21.69	21.74	21.62				
5	QPSK	1	12	21.82	21.65	21.72			23	0
5	QPSK	1	24	22.08	21.73	21.70				
5	QPSK	12	0	21.68	21.76	21.67				
5	QPSK	12	12	21.77	21.74	21.71			23	0
5	QPSK	12	13	21.76	21.68	21.65				
5	16QAM	1	0	21.66	21.67	21.74				
5	16QAM	1	12	21.69	21.68	21.72			23	0
5	16QAM	1	24	21.84	21.72	21.67				
5	16QAM	12	0	20.88	20.76	20.75				
5	16QAM	12	7	20.74	20.66	20.74			22	1
5	16QAM	12	13	20.76	20.82	20.65				
5	16QAM	25	0	20.86	20.86	20.88				
5	16QAM	25	0	20.48	20.44	20.35			22	1
5	16QAM	25	12	20.50	20.44	20.45				
5	16QAM	25	0	20.56	20.45	20.36				
5	16QAM	25	12	19.70	19.74	19.70			21	2
5	16QAM	25	13	19.80	19.76	19.78				
5	16QAM	25	0	19.74	19.64	19.63				
5	256QAM	1	0	17.47	17.60	17.68			19	4
5	256QAM	1	12	17.68	17.63	17.60				
5	256QAM	1	24	17.85	17.54	17.50				
5	256QAM	12	0	17.49	17.45	17.47			19	4
5	256QAM	12	7	17.37	17.37	17.34				
5	256QAM	12	13	17.39	17.37	17.34				
5	256QAM	25	0	17.41	17.28	17.20				

Band 38_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)		
Channel										
Frequency (MHz)				37950	38000	38150				
20	QPSK	1	0	21.21	21.21	21.20			22	0
20	QPSK	1	49	21.36	21.22	21.29				
20	QPSK	1	99	21.43	21.26	21.35				
20	QPSK	50	0	21.42	21.19	21.21				
20	QPSK	50	24	21.45	21.20	21.21			22	0
20	QPSK	50	60	21.45	21.21	21.31				
20	QPSK	100	0	21.38	21.27	21.27				
20	16QAM	1	0	21.25	21.22	21.21				
20	16QAM	1	49	21.41	21.30	21.38			22	0
20	16QAM	1	99	21.45	21.43	21.41				
20	16QAM	50	0	21.45	21.22	21.21				
20	16QAM	50	24	21.41	21.25	21.26			22	0
20	16QAM	50	60	21.45	21.22	21.24				
20	16QAM	100	0	21.45	21.22	21.24				
20	64QAM	1	0	21.62	20.91	20.98			22	0
20	64QAM	1	49	21.43	21.63	21.00				
20	64QAM	1	99	21.17	21.12	21.08				
20	64QAM	50	0	21.35	21.24	21.24			22	0
20	64QAM	50	24	21.35	21.31	21.25				
20	64QAM	50	60	21.40	21.32	21.27				
20	64QAM	100	0	21.30	21.26	21.26				
20	256QAM	1	0	19.35	19.36	19.36				
20	256QAM	1	49	19.52	19.35	19.30			20.5	1.5
20	256QAM	1	99	19.55	19.34	19.30				
20	256QAM	50	0	19.74	19.66	19.65				
20	256QAM	50	24	19.71	19.61	19.66			20.5	1.5
20	256QAM	50	60	19.71	19.68	19.64				
20	256QAM	100	0	19.84	19.70	19.71				
Channel										
Frequency (MHz)				2572.5	2595	2612.5	Tune-up limit (dBm)	MFR (dB)		
15	QPSK	1	0	21.16	21.11	21.11			22	0
15	QPSK	1	37	21.29	21.18	21.19				
15	QPSK	1	74	21.44	21.27	21.26				
15	QPSK	36	0	21.33	21.26	21.26			22	



Band 38_Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)				37650	38050	38450			
30	QPSK	1	0	20.95	21.05	20.95			
30	QPSK	1	49	21.10	21.04	21.02	22.5	0	
30	QPSK	59	0	20.97	21.09	21.08			
30	QPSK	50	0	21.10	21.03	21.03			
30	QPSK	50	24	21.10	21.01	21.01	22.5	0	
30	QPSK	50	49	21.08	21.02	21.02			
30	QPSK	100	0	21.04	21.02	20.99			
30	16QAM	1	0	20.95	21.07	21.04			
30	16QAM	1	49	21.04	21.06	21.06	22.5	0	
30	16QAM	1	99	21.17	21.12	21.10			
30	16QAM	59	0	20.97	21.09	21.08			
30	16QAM	50	24	21.05	21.06	21.07	22.5	0	
30	16QAM	50	49	21.05	21.06	21.06			
30	16QAM	100	0	21.00	21.01	21.05			
30	64QAM	1	0	20.72	20.78	20.74	22.5	0	
30	64QAM	1	49	20.88	20.82	20.81			
30	64QAM	1	99	20.90	20.89	20.82			
30	64QAM	59	0	20.94	20.96	20.94			
30	64QAM	50	24	20.92	20.95	20.95	22	0.5	
30	64QAM	50	49	20.91	20.98	20.98			
30	64QAM	100	0	20.86	20.98	20.96			
30	256QAM	1	0	19.39	19.27	19.47	20	2.5	
30	256QAM	1	49	19.47	19.38	19.52			
30	256QAM	1	99	19.44	19.32	19.38			
30	256QAM	59	0	19.44	19.32	19.38			
30	256QAM	50	24	19.46	19.36	19.31	20	2.5	
30	256QAM	50	49	19.45	19.35	19.31			
30	256QAM	100	0	19.38	19.38	19.23			
Channel									
Frequency (MHz)				2371.5	2391	2411.5	Turnup time (min)	MFR (dB)	
15	QPSK	1	0	20.95	21.05	20.94			
15	QPSK	1	37	21.07	20.98	20.96	22.5	0	
15	QPSK	1	74	21.11	21.09	21.06			
15	QPSK	36	0	21.09	20.98	21.01			
15	QPSK	36	20	20.94	20.98	20.92	22.5	0	
15	QPSK	36	38	21.03	20.91	21.04			
15	QPSK	1	0	20.93	21.06	21.00			
15	16QAM	1	0	20.93	21.06	21.00	22.5	0	
15	16QAM	1	37	20.93	21.02	21.07			
15	16QAM	1	74	21.03	21.03	21.07			
15	16QAM	36	0	20.95	20.99	21.08	22.5	0	
15	16QAM	36	20	20.94	20.95	20.92			
15	16QAM	36	38	21.03	20.91	21.04			
15	16QAM	1	0	20.93	21.06	21.00			
15	16QAM	1	37	20.93	21.02	21.07	22.5	0	
15	16QAM	1	74	21.03	21.03	21.07			
15	16QAM	36	0	20.95	20.99	21.08	22.5	0	
15	16QAM	36	20	20.94	20.95	20.92			
15	16QAM	36	38	21.03	20.91	21.04			
15	16QAM	75	0	20.99	20.92	20.96			
15	64QAM	1	0	20.98	20.95	20.94	22.5	0	
15	64QAM	1	37	20.72	20.82	20.77			
15	64QAM	1	74	20.94	20.92	20.95			
15	64QAM	36	0	20.94	20.95	20.92	22	0.5	
15	64QAM	36	20	20.92	20.95	20.94			
15	256QAM	1	0	19.35	19.27	19.37	20	2.5	
15	256QAM	1	37	19.39	19.28	19.46			
15	256QAM	1	74	19.47	19.43	19.29			
15	256QAM	36	0	19.04	19.09	19.05	20	2.5	
15	256QAM	36	20	19.17	19.23	19.02			
15	256QAM	36	38	19.25	19.13	19.22			
Channel									
Frequency (MHz)				37650	38050	38450	Turnup time (min)	MFR (dB)	
30	QPSK	1	0	20.97	20.99	20.99			
30	QPSK	1	25	21.06	20.95	20.96	22.5	0	
30	QPSK	1	49	21.08	20.92	20.92			
30	QPSK	25	0	21.10	20.92	20.92			
30	QPSK	25	12	20.91	21.01	20.96	22.5	0	
30	QPSK	25	37	20.98	20.98	20.96			
30	QPSK	50	0	21.00	20.99	20.96			
30	16QAM	1	0	20.96	21.00	20.99			
30	16QAM	1	49	21.16	21.06	21.13	22.5	0	
30	16QAM	1	99	20.99	21.00	21.00			
30	16QAM	59	0	20.96	20.98	20.98	22.5	0	
30	16QAM	50	24	20.95	20.98	20.98			
30	16QAM	50	49	20.93	20.70	20.69	22.5	0	
30	16QAM	100	0	20.94	20.92	20.73			
30	64QAM	1	0	20.85	20.75	20.78	22.5	0	
30	64QAM	1	49	20.49	20.45	20.58			
30	64QAM	1	99	20.55	20.64	20.63			
30	64QAM	59	0	20.48	20.51	20.50	22	0.5	
30	64QAM	50	24	20.48	20.56	20.49			
30	64QAM	50	49	20.46	20.56	20.49			
30	256QAM	1	0	19.36	19.27	19.44	20	2.5	
30	256QAM	1	49	19.47	19.34	19.45			
30	256QAM	1	99	19.47	19.25	19.34			
30	256QAM	59	0	19.39	19.28	19.34	20	2.5	
30	256QAM	50	24	19.34	19.16	19.06			
30	256QAM	50	49	19.20	19.19	19.26			
30	256QAM	100	0	19.32	19.11	19.13			
Channel									
Frequency (MHz)				2371.5	2391	2411.5	Turnup time (min)	MFR (dB)	
15	QPSK	1	0	20.94	21.03	20.95			
15	QPSK	1	12	21.00	21.02	20.98	22.5	0	
15	QPSK	1	24	21.06	21.05	21.05			
15	QPSK	12	0	21.03	20.94	21.02			
15	QPSK	12	7	20.93	20.98	20.95	22.5	0	
15	QPSK	12	13	20.99	20.92	21.01			
15	QPSK	25	0	20.97	20.91	20.96			
15	16QAM	1	0	20.96	21.01	20.96			
15	16QAM	1	12	21.04	20.97	21.00	22.5	0	
15	16QAM	1	24	21.16	21.09	21.10			
15	16QAM	12	0	20.92	21.01	21.08			
15	16QAM	12	7	21.05	20.96	21.05	22.5	0	
15	16QAM	12	13	21.09	21.07	21.05			
15	16QAM	25	0	20.95	20.94	20.96			
15	64QAM	1	0	20.82	20.76	20.86	22.5	0	
15	64QAM	1	12	20.80	20.71	20.80			
15	64QAM	1	24	20.84	20.71	20.73			
15	64QAM	12	0	20.74	20.52	20.47	22	0.5	
15	64QAM	12	7	20.54	20.58	20.56			
15	64QAM	25	0	20.54	20.48	20.50			
15	256QAM	1	0	19.36	19.31	19.39	20	2.5	
15	256QAM	1	12	19.41	19.21	19.46			
15	256QAM	1	24	19.41	19.38	19.38			
15	256QAM	12	0	19.41	19.21	19.28	20	2.5	
15	256QAM	12	7	19.04	19.14	19.04			
15	256QAM	12	13	19.21	19.15	19.07			
15	256QAM	25	0	19.26	19.10	19.16			

Band 41_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MFR (dB)	
Channel									
Frequency (MHz)				39750	40185	40620	41055	41490	
30	QPSK	1	0	21.73	21.95	21.70	21.60	21.35	
30	QPSK	1	49	21.74	21.81	21.72	21.65	21.50	22.5
30	QPSK	59	0	21.76	21.88	21.78	21.69	21.61	
30	QPSK	50	0	21.73	21.96	21.77	21.74	21.59	
30	QPSK	50	24	21.70	21.71	21.71	21.70	21.51	22.5
30	QPSK	50	49	21.71	21.85	21.75	21.68	21.57	
30	QPSK	100	0	21.71	21.92	21.76	21.61	21.38	
30	16QAM	1	0	21.68	21.86	21.78	21.63	21.35	
30	16QAM	1	49	21.89	21.80	21.81	21.72	21.36	22.5
30	16QAM	1	99	21.88	21.86	21.82	21.63	21.29	
30	16QAM	59	0	20.25	20.30	20.31	20.14	19.88	
30	16QAM	50	24	20.31	20.37	20.27	20.14	19.85	21
30	16QAM	50	49	20.24	20.41	20.25	20.13	19.75	
30									



Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Mch / Freq	Power High Mch / Freq	Tune-up limit (dB)	MPE (dB)
Channel										
Frequency (MHz)										
39750	40165	40620	41055	41490						
30	QPSK	1	0	21.28	21.51	21.43	21.55	21.35	21.7	0
30	QPSK	1	49	21.27	21.60	21.49	21.61	21.40	21.7	0
30	QPSK	1	99	21.26	21.69	21.62	21.63	21.44	21.7	0
30	QPSK	50	0	21.22	21.67	21.59	21.65	21.45	21.7	0
30	QPSK	50	24	21.21	21.66	21.64	21.64	21.44	21.7	0
30	QPSK	50	49	21.18	21.50	21.43	21.52	21.42	21.7	0
30	QPSK	100	0	21.34	21.65	21.49	21.61	21.39	21.7	0
30	QPSK	100	24	21.33	21.68	21.63	21.63	21.37	21.7	0
30	QPSK	100	49	21.45	21.64	21.56	21.62	21.50	21.7	0
30	16QAM	1	99	21.38	21.61	21.55	21.61	21.37	21.7	0
30	16QAM	50	24	21.32	21.61	21.61	21.61	21.44	21.7	0
30	16QAM	100	0	21.28	21.55	21.55	21.67	21.39	21.7	0
30	16QAM	100	49	21.28	21.55	21.55	21.67	21.39	21.7	0
30	16QAM	1	0	21.23	21.57	21.43	21.53	21.29	21.7	0
30	16QAM	1	49	21.23	21.57	21.43	21.53	21.29	21.7	0
30	16QAM	1	99	21.26	21.63	21.59	21.59	21.41	21.7	0
30	16QAM	50	0	21.17	21.61	21.47	21.66	21.45	21.7	0
30	16QAM	50	24	21.30	21.60	21.56	21.63	21.47	21.7	0
30	16QAM	50	49	21.35	21.65	21.53	21.65	21.48	21.7	0
30	16QAM	100	0	21.26	21.62	21.53	21.62	21.42	21.7	0
30	16QAM	100	49	20.55	20.52	20.35	20.42	20.17	20.7	1
30	256QAM	1	49	20.16	20.42	20.44	20.38	20.28	20.7	1
30	256QAM	1	99	20.06	20.35	20.46	20.42	20.32	20.7	1
30	256QAM	50	0	19.98	20.53	20.30	20.59	20.33	20.7	1
30	256QAM	50	24	20.17	20.55	20.36	20.58	20.38	20.7	1
30	256QAM	50	49	20.28	20.43	20.43	20.33	20.31	20.7	1
30	256QAM	100	0	20.10	20.51	20.35	20.49	20.32	20.7	1
30	256QAM	100	49	20.22	20.43	20.33	20.43	20.33	20.7	1
Channel										
Frequency (MHz)										
2503.5	2548.1	2593	2637.3	2682.5						
15	QPSK	1	0	21.31	21.40	21.46	21.56	21.65	21.70	0
15	QPSK	1	37	21.26	21.61	21.61	21.58	21.64	21.70	0
15	QPSK	1	74	21.31	21.44	21.53	21.59	21.66	21.70	0
15	QPSK	36	0	21.26	21.38	21.46	21.56	21.68	21.70	0
15	QPSK	36	30	21.28	21.38	21.48	21.58	21.68	21.70	0
15	QPSK	36	59	21.31	21.40	21.43	21.62	21.62	21.70	0
15	QPSK	75	0	21.30	21.48	21.43	21.63	21.63	21.70	0
15	16QAM	1	0	21.42	21.49	21.47	21.61	21.63	21.70	0
15	16QAM	1	37	21.41	21.30	21.36	21.60	21.60	21.70	0
15	16QAM	1	74	21.35	21.49	21.48	21.64	21.69	21.70	0
15	16QAM	36	0	21.26	21.37	21.44	21.57	21.59	21.70	0
15	16QAM	36	30	21.29	21.38	21.45	21.56	21.61	21.70	0
15	16QAM	36	59	21.28	21.40	21.41	21.60	21.61	21.70	0
15	16QAM	75	0	21.33	21.41	21.50	21.61	21.68	21.70	0
15	16QAM	75	0	21.27	21.39	21.46	21.52	21.59	21.70	0
15	16QAM	1	37	21.20	21.28	21.46	21.53	21.55	21.70	0
15	16QAM	1	74	21.27	21.36	21.45	21.56	21.68	21.70	0
15	16QAM	36	0	21.19	21.35	21.45	21.55	21.68	21.70	0
15	16QAM	36	20	21.26	21.45	21.46	21.58	21.68	21.70	0
15	16QAM	36	59	21.31	21.35	21.43	21.61	21.61	21.70	0
15	16QAM	75	0	21.30	21.38	21.50	21.60	21.67	21.70	0
15	256QAM	1	0	20.06	20.22	20.35	20.38	20.50	20.7	1
15	256QAM	1	37	20.12	20.21	20.40	20.40	20.52	20.7	1
15	256QAM	1	74	20.06	20.35	20.46	20.51	20.58	20.7	1
15	256QAM	36	0	20.16	20.35	20.45	20.45	20.58	20.7	1
15	256QAM	36	20	20.16	20.35	20.45	20.45	20.58	20.7	1
15	256QAM	36	59	20.19	20.30	20.41	20.47	20.52	20.7	1
15	256QAM	75	0	20.20	20.42	20.42	20.42	20.58	20.7	1
Channel										
Frequency (MHz)										
39750	40165	40620	41055	41490						
10	QPSK	1	0	21.22	21.54	21.42	21.55	21.61	21.70	0
10	QPSK	1	25	21.22	21.59	21.44	21.58	21.63	21.70	0
10	QPSK	1	50	21.24	21.63	21.46	21.62	21.65	21.70	0
10	QPSK	25	0	21.19	21.34	21.43	21.61	21.64	21.70	0
10	QPSK	25	12	21.24	21.59	21.47	21.62	21.62	21.70	0
10	QPSK	25	25	21.31	21.49	21.41	21.62	21.64	21.70	0
10	QPSK	50	0	21.29	21.44	21.51	21.59	21.67	21.70	0
10	16QAM	1	0	21.47	21.43	21.48	21.66	21.66	21.70	0
10	16QAM	1	25	21.38	21.48	21.48	21.64	21.67	21.70	0
10	16QAM	1	49	21.29	21.52	21.56	21.64	21.61	21.70	0
10	16QAM	25	0	21.23	21.38	21.67	21.62	21.68	21.70	0
10	16QAM	25	12	21.28	21.46	21.52	21.62	21.68	21.70	0
10	16QAM	25	26	21.34	21.43	21.47	21.60	21.66	21.70	0
10	16QAM	50	0	21.30	21.45	21.56	21.66	21.61	21.70	0
10	16QAM	1	0	21.16	21.30	21.44	21.54	21.59	21.70	0
10	16QAM	1	25	21.21	21.38	21.45	21.58	21.61	21.70	0
10	16QAM	1	49	21.19	21.33	21.48	21.51	21.58	21.70	0
10	16QAM	25	0	21.27	21.42	21.53	21.67	21.69	21.70	0
10	16QAM	25	12	21.30	21.45	21.53	21.65	21.62	21.70	0
10	16QAM	25	26	21.36	21.50	21.52	21.68	21.60	21.70	0
10	16QAM	50	0	21.30	21.41	21.36	20.82	20.62	20.7	1
10	16QAM	50	24	20.10	20.22	20.35	20.33	20.37	20.7	1
10	256QAM	1	25	20.04	20.30	20.31	20.43	20.41	20.7	1
10	256QAM	1	49	20.16	20.28	20.35	20.40	20.47	20.7	1
10	256QAM	25	0	19.99	20.28	20.35	20.48	20.57	20.7	1
10	256QAM	25	12	20.21	20.37	20.35	20.59	20.50	20.7	1
10	256QAM	25	26	20.25	20.43	20.35	20.51	20.45	20.7	1
10	256QAM	50	0	20.24	20.32	20.37	20.48	20.54	20.7	1
Channel										
Frequency (MHz)										
2488.5	2543.8	2593	2640.3	2687.5						
5	QPSK	1	0	21.23	21.53	21.43	21.55	21.59	21.70	0
5	QPSK	1	12	21.24	21.42	21.45	21.53	21.56	21.70	0
5	QPSK	1	24	21.24	21.40	21.41	21.56	21.63	21.70	0
5	QPSK	12	0	21.27	21.43	21.46	21.60	21.67	21.70	0
5	QPSK	12	7	21.26	21.43	21.48	21.60	21.64	21.70	0
5	QPSK	12	13	21.29	21.41	21.42	21.58	21.62	21.70	0
5	QPSK	25	0	21.25	21.47	21.45	21.60	21.64	21.70	0
5	QPSK	25	0	21.37	21.51	21.52	21.59	21.68	21.70	0
5	16QAM	1	0	21.40	21.51	21.53	21.60	21.61	21.70	0
5	16QAM	1	24	21.36	21.54	21.52	21.66	21.67	21.70	0
5	16QAM	12	0	21.25	21.33	21.44	21.53	21.63	21.70	0
5	16QAM	12	7	21.23	21.41	21.46	21.53	21.61	21.70	0
5	16QAM	12	13	21.18	21.40	21.45	21.58	21.59	21.70	0
5	16QAM	25	0	21.31	21.48	21.46	21.62	21.62	21.70	0
5	16QAM	1	0	21.26	21.36	21.50	21.51	21.63	21.70	0
5	16QAM	1	12	21.20	21.35	21.44	21.50	21.58	21.70	0
5	16QAM	1	24	21.17	21.35	21.50	21.55	21.63	21.70	0
5	16QAM	12	0	21.26	21.41	21.47	21.55	21.67	21.70	0
5	16QAM	12	7	21.26	21.39	21.46	21.55	21.67	21.70	0
5	16QAM	12	13	21.20	21.39	21.46	21.60	21.64	21.70	0
5	16QAM	25	0	21.33	21.49	21.50	21.66	21.64	21.70	0
5	256QAM	1	0	20.11	20.15	20.39	20.34	20.41	20.7	1
5	256QAM	1	12	20.13	20.31	20.43	20.40	20.88	20.7	1
5	256QAM	1	24	20.13	20.31	20.43	20.40	20.88	20.7	1
5	256QAM	12	0	19.99	20.37	20.26	20.49	20.94	20.7	1
5	256QAM	12	7	20.14	20.33	20.43	20.54	20.83	20.7	1
5	256QAM	12	13	20.28	20.37	20.33	20.63	20.57	20.7	1
5	256QAM	25	0	20.15	20.29	20.30	20.46	20.52	20.7	1

Band 41_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Low Mch / Freq	Power High Mch / Freq	Tune-up limit (dB)	MPE (dB)
Channel										
Frequency (MHz)										
39750	40165	40620	41055	41490						
30	QPSK	1	0	21.97	22.12	21.99	22.18	22.01	22.5	0
30	QPSK	1	49	21.85	22.13	21.93	21.93	21.85	22.5	0
30	QPSK	1	99	21.99	22.00	22.0				







Band 7_Ant 3											
SVT (MHz)	Multicast	FE Size	FE Offset	Power Low	Power Mid	Power High	Turn-up (dB)	Turn-down (dB)	Turn-off (dB)	MTN (MHz)	
Channel											
20	OPRS	1	0	2128	2170	2198				23.2	0
20	OPRS	1	48	2138	2180	2208				23.2	0
20	OPRS	1	96	2148	2190	2218				23.2	0
20	OPRS	30	144	2158	2200	2228				23.2	0
20	OPRS	100	0	2168	2210	2238				23.2	0
20	OPRS	100	0	2178	2220	2248				23.2	0
20	OPRS	100	0	2188	2230	2258				23.2	0
20	OPRS	100	0	2198	2240	2268				23.2	0
20	OPRS	100	0	2208	2250	2278				23.2	0
20	OPRS	100	0	2218	2260	2288				23.2	0
20	OPRS	100	0	2228	2270	2298				23.2	0
20	OPRS	100	0	2238	2280	2308				23.2	0
20	OPRS	100	0	2248	2290	2318				23.2	0
20	OPRS	100	0	2258	2300	2328				23.2	0
20	OPRS	100	0	2268	2310	2338				23.2	0
20	OPRS	100	0	2278	2320	2348				23.2	0
20	OPRS	100	0	2288	2330	2358				23.2	0
20	OPRS	100	0	2298	2340	2368				23.2	0
20	OPRS	100	0	2308	2350	2378				23.2	0
20	OPRS	100	0	2318	2360	2388				23.2	0
20	OPRS	100	0	2328	2370	2398				23.2	0
20	OPRS	100	0	2338	2380	2408				23.2	0
20	OPRS	100	0	2348	2390	2418				23.2	0
20	OPRS	100	0	2358	2400	2428				23.2	0
20	OPRS	100	0	2368	2410	2438				23.2	0
20	OPRS	100	0	2378	2420	2448				23.2	0
20	OPRS	100	0	2388	2430	2458				23.2	0
20	OPRS	100	0	2398	2440	2468				23.2	0
20	OPRS	100	0	2408	2450	2478				23.2	0
20	OPRS	100	0	2418	2460	2488				23.2	0
20	OPRS	100	0	2428	2470	2498				23.2	0
20	OPRS	100	0	2438	2480	2508				23.2	0
20	OPRS	100	0	2448	2490	2518				23.2	0
20	OPRS	100	0	2458	2500	2528				23.2	0
20	OPRS	100	0	2468	2510	2538				23.2	0
20	OPRS	100	0	2478	2520	2548				23.2	0
20	OPRS	100	0	2488	2530	2558				23.2	0
20	OPRS	100	0	2498	2540	2568				23.2	0
20	OPRS	100	0	2508	2550	2578				23.2	0
20	OPRS	100	0	2518	2560	2588				23.2	0
20	OPRS	100	0	2528	2570	2598				23.2	0
20	OPRS	100	0	2538	2580	2608				23.2	0
20	OPRS	100	0	2548	2590	2618				23.2	0
20	OPRS	100	0	2558	2600	2628				23.2	0
20	OPRS	100	0	2568	2610	2638				23.2	0
20	OPRS	100	0	2578	2620	2648				23.2	0
20	OPRS	100	0	2588	2630	2658				23.2	0
20	OPRS	100	0	2598	2640	2668				23.2	0
20	OPRS	100	0	2608	2650	2678				23.2	0
20	OPRS	100	0	2618	2660	2688				23.2	0
20	OPRS	100	0	2628	2670	2698				23.2	0
20	OPRS	100	0	2638	2680	2708				23.2	0
20	OPRS	100	0	2648	2690	2718				23.2	0
20	OPRS	100	0	2658	2700	2728				23.2	0
20	OPRS	100	0	2668	2710	2738				23.2	0
20	OPRS	100	0	2678	2720	2748				23.2	0
20	OPRS	100	0	2688	2730	2758				23.2	0
20	OPRS	100	0	2698	2740	2768				23.2	0
20	OPRS	100	0	2708	2750	2778				23.2	0
20	OPRS	100	0	2718	2760	2788				23.2	0
20	OPRS	100	0	2728	2770	2798				23.2	0
20	OPRS	100	0	2738	2780	2808				23.2	0
20	OPRS	100	0	2748	2790	2818				23.2	0
20	OPRS	100	0	2758	2800	2828				23.2	0
20	OPRS	100	0	2768	2810	2838				23.2	0
20	OPRS	100	0	2778	2820	2848				23.2	0
20	OPRS	100	0	2788	2830	2858				23.2	0
20	OPRS	100	0	2798	2840	2868				23.2	0
20	OPRS	100	0	2808	2850	2878				23.2	0
20	OPRS	100	0	2818	2860	2888				23.2	0
20	OPRS	100	0	2828	2870	2898				23.2	0
20	OPRS	100	0	2838	2880	2908				23.2	0
20	OPRS	100	0	2848	2890	2918				23.2	0
20	OPRS	100	0	2858	2900	2928				23.2	0
20	OPRS	100	0	2868	2910	2938				23.2	0
20	OPRS	100	0	2878	2920	2948				23.2	0
20	OPRS	100	0	2888	2930	2958				23.2	0
20	OPRS	100	0	2898	2940	2968				23.2	0
20	OPRS	100	0	2908	2950	2978				23.2	0
20	OPRS	100	0	2918	2960	2988				23.2	0
20	OPRS	100	0	2928	2970	2998				23.2	0
20	OPRS	100	0	2938	2980	3008				23.2	0
20	OPRS	100	0	2948	2990	3018				23.2	0
20	OPRS	100	0	2958	3000	3028				23.2	0
20	OPRS	100	0	2968	3010	3038				23.2	0
20	OPRS	100	0	2978	3020	3048				23.2	0
20	OPRS	100	0	2988	3030	3058				23.2	0
20	OPRS	100	0	2998	3040	3068				23.2	0
20	OPRS	100	0	3008	3050	3078				23.2	0
20	OPRS	100	0	3018	3060	3088				23.2	0
20	OPRS	100	0	3028	3070	3098				23.2	0
20	OPRS	100	0	3038	3080	3108				23.2	0
20	OPRS	100	0	3048	3090	3118				23.2	0
20	OPRS	100	0	3058	3100	3128				23.2	0
20	OPRS	100	0	3068	3110	3138				23.2	0
20	OPRS	100	0	3078	3120	3148				23.2	0
20	OPRS	100	0	3088	3130	3158				23.2	0
20	OPRS	100	0	3098	3140	3168				23.2	0
20	OPRS	100	0	3108	3150	3178				23.2	0
20	OPRS	100	0	3118	3160	3188				23.2	0
20	OPRS	100	0	3128	3170	3198				23.2	0
20	OPRS	100	0	3138	3180	3208				23.2	0
20	OPRS	100	0	3148	3190	3218				23.2	0
20	OPRS	100	0	3158	3200	3228				23.2	0
20	OPRS	100	0	3168	3210	3238				23.2	0
20	OPRS	100	0	3178	3220	3248				23.2	0
20	OPRS	100	0	3188	3230	3258				23.2	0
20	OPRS	100	0	3198	3240	3268				23.2	0
20	OPRS	100	0	3208	3250	3278				23.2	0
20	OPRS	100	0	3218	3260	3288				23.2	0
20	OPRS	100	0	3228	3270	3298				23.2	0
20	OPRS	100	0	3238	3280	3308				23.2	0
20	OPRS	100	0	3248	3290	3318				23.2	0
20	OPRS	100	0	3258	3300	3328				23.2	0
20	OPRS	100	0	3268	3310	3338				23.2	0
20	OPRS	100	0	3278	3320	3348				23.2	0
20	OPRS	100	0	3288	3330	3358				23.2	0
20	OPRS	100	0	3298	3340	3368				23.2	0
20	OPRS	100	0	3308	3350	3378				23.2	0
20	OPRS	100	0	3318	3360	3388				23.2	0
20	OPRS	100	0	3328</							



Band 38_Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.81	22.84	22.86						
20	QPSK	1	49	22.83	22.82	22.85			24			
20	QPSK	1	99	22.80	22.86	22.82						
20	QPSK	50	0	21.64	21.31	21.52						
20	QPSK	50	24	21.78	21.37	21.28			23			
20	QPSK	50	60	21.54	21.25	21.28						
20	QPSK	100	0	21.85	21.59	21.28						
20	16QAM	1	0	21.41	21.37	21.28						
20	16QAM	1	49	21.82	21.27	21.33			23			
20	16QAM	1	99	21.84	21.25	21.30						
20	16QAM	50	0	20.81	20.23	20.30						
20	16QAM	50	24	20.59	20.25	20.31			22			
20	16QAM	50	60	20.52	20.29	20.28						
20	16QAM	100	0	20.56	20.24	20.31						
20	64QAM	1	0	20.32	20.03	20.07			22			
20	64QAM	1	99	20.26	20.01	20.02						
20	64QAM	50	0	19.59	19.31	19.34						
20	64QAM	50	24	19.61	19.26	19.35			21			
20	64QAM	50	60	19.58	19.25	19.28						
20	256QAM	100	0	19.82	19.29	19.29						
20	256QAM	1	0	17.24	17.34	17.50						
20	256QAM	1	49	17.27	17.24	17.31			19			
20	256QAM	1	99	17.35	17.29	17.33						
20	256QAM	50	0	17.14	17.25	17.30						
20	256QAM	50	24	17.22	17.20	17.22			19			
20	256QAM	50	60	17.30	17.20	17.20						
20	256QAM	100	0	17.30	17.20	17.20						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.77	22.38	22.36						
15	QPSK	1	37	22.78	22.37	22.43			24			
15	QPSK	1	74	22.70	22.39	22.39						
15	QPSK	36	0	21.70	21.23	21.29						
15	QPSK	36	20	21.69	21.25	21.20			23			
15	QPSK	36	39	21.68	21.24	21.24						
15	16QAM	1	0	21.72	21.33	21.29						
15	16QAM	1	37	21.79	21.35	21.31			23			
15	16QAM	1	74	21.69	21.23	21.24						
15	16QAM	36	0	20.71	20.23	20.27						
15	16QAM	36	20	20.53	20.11	20.24			22			
15	16QAM	36	39	20.50	20.17	20.20						
15	16QAM	75	0	20.69	20.28	20.30						
15	16QAM	75	37	20.17	19.79	19.24			22			
15	64QAM	1	0	20.52	20.01	20.02						
15	64QAM	1	37	20.52	20.01	20.02			22			
15	64QAM	36	0	19.75	19.35	19.27						
15	64QAM	36	20	19.70	19.27	19.31			21			
15	64QAM	36	39	19.73	19.34	19.38						
15	256QAM	1	0	17.23	17.34	17.20						
15	256QAM	1	37	17.17	17.25	17.32			19			
15	256QAM	1	74	17.19	17.10	17.15						
15	256QAM	36	0	17.11	17.25	17.34						
15	256QAM	36	20	17.11	17.25	17.34			19			
15	256QAM	36	39	17.09	17.20	17.11						
15	256QAM	75	0	17.24	17.25	17.22						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.81	22.29	22.34						
10	QPSK	1	25	22.81	22.31	22.29			24			
10	QPSK	1	50	22.80	22.26	22.27						
10	QPSK	25	0	21.77	21.40	21.52						
10	QPSK	25	12	21.71	21.25	21.20			23			
10	QPSK	25	24	21.74	21.18	21.18						
10	QPSK	50	0	21.78	21.24	21.21						
10	16QAM	1	0	21.73	21.34	21.30						
10	16QAM	1	25	21.78	21.44	21.38			23			
10	16QAM	1	49	21.86	21.29	21.39						
10	16QAM	25	0	20.81	20.22	20.30						
10	16QAM	25	12	20.85	20.16	20.21			22			
10	16QAM	25	24	20.82	20.25	20.16						
10	16QAM	50	0	20.73	20.22	20.30						
10	64QAM	1	0	20.52	20.01	20.03						
10	64QAM	1	25	20.51	20.14	20.00			22			
10	64QAM	1	49	20.46	20.03	20.03						
10	64QAM	25	0	19.75	19.26	19.21			21			
10	64QAM	25	12	19.62	19.28	19.38						
10	64QAM	25	24	19.71	19.15	19.20						
10	64QAM	50	0	19.75	19.26	19.27						
10	64QAM	50	12	17.23	17.34	17.20			19			
10	64QAM	50	24	17.23	17.34	17.20						
10	256QAM	100	0	19.85	19.29	19.24						
10	256QAM	1	0	17.19	17.30	17.15						
10	256QAM	1	24	17.17	17.18	17.18			19			
10	256QAM	12	0	17.11	17.32	17.34						
10	256QAM	12	7	17.11	17.32	17.34						
10	256QAM	12	13	17.09	17.30	17.11						
10	256QAM	25	0	17.34	17.25	17.22						

Band 38_Ant 2												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	24.54	24.30	24.38			25.5			
20	QPSK	1	49	24.55	24.38	24.36						
20	QPSK	1	99	24.51	24.33	24.31						
20	QPSK	50	0	23.57	23.32	23.39						
20	QPSK	50	24	23.61	23.25	23.38			24.5			
20	QPSK	50	60	23.55	23.35	23.38						
20	QPSK	100	0	23.49	23.27	23.41						
20	16QAM	1	0	23.61	23.31	23.30						
20	16QAM	1	49	23.50	23.36	23.34			24.5			
20	16QAM	1	99	23.56	23.38	23.35						
20	16QAM	50	0	22.91	22.39	22.38						
20	16QAM	50	24	22.95	22.33	22.39			23.5			
20	16QAM	50	60	22.95	22.35	22.38						
20	16QAM	100	0	22.91	22.35	22.38						
20	64QAM	1	0	22.29	22.06	22.05			23.5			
20	64QAM	1	99	22.28	22.00	22.11						
20	64QAM	50	0	21.90	21.31	21.38						
20	64QAM	50	24	21.95	21.31	21.40			22.5			
20	64QAM	50	60	21.84	21.35	21.42						
20	256QAM	100	0	21.50	21.27	21.27						
20	256QAM	1	0	19.00	19.33	19.23						
20	256QAM	1	49	19.32	19.45	19.38						
20	256QAM	1	99	19.20	19.29	19.13						
20	256QAM	50	0	19.32	19.35	19.03						
20	256QAM	50	24	19.36	19.27	19.37			20.5			
20	256QAM	50	60	19.35	19.11	19.34						
20	256QAM	100	0	19.32	19.40	19.42						
Channel												
Frequency (MHz)												
15	QPSK	1	0	24.81	24.30	24.32			25.5			
15	QPSK	1	37	24.86	24.33	24.39						
15	QPSK	1	74	24.80	24.34	24.34						
15	QPSK	36	0	23.62	23.24	23.28						
15	QPSK	36	20	23.62	23.24	23.28			24.5			
15	QPSK	36	39	23.55	23.23	23.29						
15	16QAM	1	0	23.51	23.24	23.29						
15	16QAM	1	37	23.57	23.31	23.33			24.5			
15	16QAM	1	74	23.47	23.28	23.38						
15	16QAM	36	0	22.44	22.18	22.30						
15	16QAM	36	20	22.45	22.04	22.09						
15	16QAM	36	39	22.54	22.18	22.29			23.5			
15	16QAM	75	0	22.55	22.23	22.36						
15	16QAM	75	37	22.51	22.12	22.18						
15	64QAM	1	0	22.30	22.06	22.12			23.5			
15	64QAM	1	37	22.30	22.06	22.12						
15	64QAM	36	0	21.54	21.25	21.33						
15	64QAM	36	20	21.51	21.23	21.26			22.5			
15	64QAM	36	39	21.61	21.25	21.30						
15	64QAM	75	0	21.52	21.24	21.30						
15	256QAM	1	0	19.32	19.08	19.37						
15	256QAM	1	37	19.44	19.21	19.00			20.5			
15	2											



Band 38_Ant 5											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MFR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	24.03	23.84	23.91				25	0
20	QPSK	1	49	23.95	23.81	23.88					
20	QPSK	50	0	22.06	21.94	22.00					
20	QPSK	50	0	22.12	22.05	22.08					
20	QPSK	50	24	22.11	22.07	22.09				24	1
20	QPSK	50	24	22.14	22.10	22.12					
20	QPSK	100	0	23.08	22.83	22.95					
20	16QAM	1	0	23.24	23.02	23.13					
20	16QAM	1	49	23.27	23.12	23.21				24	1
20	16QAM	1	99	23.29	23.11	23.21					
20	16QAM	50	0	22.06	21.94	22.00					
20	16QAM	50	24	22.16	21.95	22.02				23	2
20	16QAM	100	0	22.13	21.95	22.04					
20	16QAM	100	0	22.13	21.95	22.04					
20	64QAM	1	0	22.08	21.93	22.01				23	2
20	64QAM	1	99	22.16	22.09	22.09					
20	64QAM	50	0	21.10	20.95	21.08				22	3
20	64QAM	50	24	21.14	20.99	21.08					
20	64QAM	50	50	21.18	20.97	21.12					
20	64QAM	100	0	21.07	20.92	21.00					
20	64QAM	100	0	18.56	18.58	18.46					
20	256QAM	1	0	18.57	18.47	18.42				20	5
20	256QAM	1	99	18.56	18.46	18.45					
20	256QAM	50	0	18.52	18.72	18.71					
20	256QAM	50	24	18.53	18.70	18.68				20	5
20	256QAM	50	50	18.54	18.74	18.73					
20	256QAM	100	0	18.73	18.63	18.65					
Channel											
Frequency (MHz)											
15	QPSK	1	0	24.10	23.91	24.00					
15	QPSK	1	37	24.06	23.84	23.95				25	0
15	QPSK	1	74	24.11	24.07	24.11					
15	QPSK	36	0	23.12	22.99	23.06					
15	QPSK	36	20	23.08	22.93	23.01				24	1
15	QPSK	36	36	23.13	22.94	23.08					
15	16QAM	1	0	23.24	23.07	23.20				24	1
15	16QAM	1	37	23.27	23.08	23.21					
15	16QAM	1	74	23.31	23.14	23.23					
15	16QAM	36	0	22.13	22.04	22.09					
15	16QAM	36	20	22.14	22.04	22.09				23	2
15	16QAM	36	36	22.13	21.93	22.07					
15	16QAM	75	0	22.09	21.92	22.06					
15	64QAM	1	37	22.15	21.97	22.06				23	2
15	64QAM	36	0	21.08	20.95	21.05					
15	64QAM	36	20	21.13	20.92	21.09				22	3
15	64QAM	75	0	21.06	20.94	21.11					
15	256QAM	1	0	18.75	18.71	18.75				20	5
15	256QAM	1	37	18.76	18.59	18.61					
15	256QAM	1	74	18.79	18.67	18.78					
15	256QAM	36	0	18.53	18.70	18.70				20	5
15	256QAM	36	20	18.53	18.70	18.73					
15	256QAM	36	36	18.53	18.56	18.73					
15	256QAM	75	0	18.75	18.59	18.62					
Channel											
Frequency (MHz)											
10	QPSK	1	0	24.11	23.93	24.00					
10	QPSK	1	25	24.11	23.88	23.96				24	0
10	QPSK	25	0	22.12	22.02	22.10					
10	QPSK	25	0	22.12	22.02	22.10					
10	QPSK	25	12	22.14	22.06	22.11				24	1
10	QPSK	25	12	22.17	22.05	22.11					
10	16QAM	1	0	23.24	23.07	23.20				24	1
10	16QAM	1	49	23.25	23.08	23.21					
10	16QAM	25	0	22.12	21.98	22.18				23	2
10	16QAM	25	26	22.20	21.96	22.14					
10	16QAM	50	0	22.13	21.95	22.04					
10	64QAM	1	0	22.12	21.94	22.09				23	2
10	64QAM	1	49	22.16	21.95	22.12					
10	64QAM	25	0	21.17	21.08	21.21				22	3
10	64QAM	25	12	21.22	21.00	21.18					
10	64QAM	25	25	21.23	20.99	21.17					
10	64QAM	50	0	21.14	20.94	21.10				20	5
10	64QAM	50	12	18.53	18.63	18.74					
10	256QAM	1	0	18.53	18.64	18.58				20	5
10	256QAM	25	0	18.77	18.66	18.63					
10	256QAM	25	12	18.69	18.70	18.65					
10	256QAM	25	25	18.68	18.72	18.61					
10	256QAM	50	0	18.73	18.51	18.59					

Band 41_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (min)	MFR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	23.04	23.24	23.38	23.24	23.09		24	0
20	QPSK	1	49	23.10	23.31	23.35	23.25	23.18			
20	QPSK	50	0	22.15	22.48	22.47	22.33	22.24			
20	QPSK	50	0	22.15	22.42	22.41	22.36	22.21			
20	QPSK	50	24	22.11	22.27	22.27	22.16	22.11		23	1
20	QPSK	50	24	22.14	22.25	22.23	22.13	22.11			
20	QPSK	100	0	22.12	22.38	22.37	22.25	22.13			
20	16QAM	1	0	22.11	22.36	22.36	22.23	22.12			
20	16QAM	1	49	22.12	22.42	22.39	22.24	22.14		23	1
20	16QAM	1	99	22.13	22.27	22.26	22.21	22.08			
20	16QAM	50	0	21.09	21.28	21.45	21.24	21.22			
20	16QAM	50	24	21.11	21.31	21.43	21.31	21.19		22	2
20	16QAM	100	0	21.15	21.23	21.23	21.12	21.08			
20	16QAM	100	0	21.15	21.25	21.25	21.27	21.15			
20	64QAM	1	0	20.92	20.96	21.18	20.96	20.85		22	2
20	64QAM	1	99	20.92	20.98	21.03	20.92	20.82			
20	64QAM	50	0	20.08	20.29	20.39	20.21	20.14		21	3
20	64QAM	50	24	20.08	20.25	20.38	20.23	20.14			
20	64QAM	50	50	20.13	20.29	20.33	20.23	20.13			
20	64QAM	100	0	20.08	20.24	20.31	20.18	20.17			
20	256QAM	1	0	17.80	17.69	17.94	17.72	17.65		19	5
20	256QAM	1	49	17.80	17.58	17.60	17.65	17.71			
20	256QAM	50	0	17.63	17.83	17.58	17.89	17.80			
20	256QAM	50	24	17.86	17.75	17.63	17.63	17.88			
20	256QAM	50	50	17.71	17.74	17.67	17.65	17.68		19	5
20	256QAM	100	0	17.82	17.71	17.62	17.65	17.74			
Channel											
Frequency (MHz)											
15	QPSK	1	0	23.12	23.43	23.45	23.24	23.27			
15	QPSK	1	37	23.14	23.26	23.35	23.17	23.08		24	0
15	QPSK	1	74	23.11	23.23	23.42	23.22	23.06			
15	QPSK	36	0	22.16	22.16	22.38	22.33	22.25			
15	QPSK	36	20	22.14	22.24	22.35	22.19	22.24			
15	QPSK	36	36	22.05	22.18	22.38	22.27	22.07			
15	16QAM	1	0	22.10	22.31	22.43	22.25	22.12			
15	16QAM	1	37	22.11	22.31	22.31	22.20	22.17		23	1
15	16QAM	1	74	22.18	22.14	22.22	22.26	22.21			
15	16QAM	36	0	21.14	21.24	21.29	21.20	21.15		22	2
15	16QAM	36	20	21.07	21.28	21.30	21.20	21.15			
15	16QAM	36	36	21.18	21.22	21.28	21.37	21.20		22	2
15	16QAM	75	0	21.18	21.25	21.40	21.26	21.10			
15	64QAM	1	37	20.96	20.87	21.09	20.82	20.80		21	3
15	64QAM	36	0	20.74	21.03	21.05	20.92	20.75			
15	64QAM	36	20	20.85	20.92	20.95	20.11	20.24			
15	64QAM	75	0	19.99	20.22	20.27	20.23	20.28		21	3
15	256QAM	1	0	17.82	17.71	17.63	17.79	17.88			
15	256QAM	1	37	17.68	17.59	17.69	17.61	17.71		19	5
15	256QAM	1	74	17.89	17.65	17.68	17.68	17.61			
15	256QAM	36	0	17.79	17.67	17.66	17.63	17.64			
15	256QAM	36	20	17.79	17.67	17.66	17.63	17.64			
15	256QAM	36	36	17.63	17.69	17.67	17.63	17.60		19	5
15	256QAM	75	0	17.87	17.72	17.63	17.65	17.60			
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.11	23.44	23.46	23.25	23.29			
10	QPSK	1	25	23.19	23.22	23.37	23.17	23.14		24	0
10	QPSK	25	0	22.04	22.04	22.26	22.21	22.10			
10	QPSK	25	0	22.04	22.01	22.20	22.20	22.12			
10	QPSK	25	12	22.20	22.29	22.43	22.28	22.25		23	1



Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MPE (dB)
Channel										
Frequency (MHz)										
39750	40165	40620	41055	41490						
30	QPSK	1	0	25.16	25.33	25.57	25.50	25.52	25.7	0
30	QPSK	1	49	25.21	25.41	25.58	25.45	25.55		
30	QPSK	1	99	25.22	25.55	25.65	25.47	25.61		
30	QPSK	50	0	24.18	24.68	24.67	24.67	24.61	24.7	1
30	QPSK	50	24	24.18	24.36	24.61	24.47	24.56		
30	QPSK	50	50	24.10	24.36	24.61	24.45	24.47		
30	QPSK	100	0	24.17	24.59	24.58	24.49	24.57		
30	IQAM	1	0	24.22	24.33	24.45	24.45	24.44	24.7	1
30	IQAM	1	49	24.13	24.45	24.38	24.48	24.52		
30	IQAM	1	99	24.19	24.57	24.32	24.47	24.53		
30	IQAM	50	0	23.13	23.91	23.60	23.49	23.63		
30	IQAM	50	24	23.17	23.93	23.64	23.49	23.57		
30	IQAM	100	0	23.16	23.47	23.45	23.32	23.58		
30	IQAM	100	24	23.17	23.15	23.13	23.23	23.25		
30	IQAM	1	0	23.22	23.27	23.22	23.17	23.28	23.7	2
30	IQAM	1	49	22.14	22.48	22.36	22.48	22.58		
30	IQAM	1	99	22.14	22.50	22.45	22.45	22.58		
30	IQAM	50	0	22.25	22.50	22.40	22.51	22.53		
30	IQAM	50	24	22.17	22.42	22.39	22.48	22.52		
30	IQAM	100	0	22.20	22.37	22.36	22.46	22.52		
30	IQAM	100	24	22.19	22.17	22.15	22.25	22.27		
30	IQAM	1	0	22.22	22.27	22.22	22.17	22.28	22.7	3
30	IQAM	1	49	21.14	21.48	21.36	21.48	21.58		
30	IQAM	1	99	21.14	21.50	21.45	21.45	21.58		
30	IQAM	50	0	21.25	21.50	21.40	21.51	21.53		
30	IQAM	50	24	21.17	21.42	21.39	21.48	21.52		
30	IQAM	100	0	21.20	21.37	21.36	21.46	21.52		
30	IQAM	100	24	21.19	21.17	21.15	21.25	21.27		
30	IQAM	1	0	21.22	21.27	21.22	21.17	21.28	20.7	5
30	IQAM	1	49	20.28	20.13	20.24	20.38	20.18		
30	IQAM	1	99	20.28	20.19	20.19	20.20	20.17		
30	IQAM	50	0	20.30	20.18	20.27	20.29	20.33		
30	IQAM	50	24	20.30	20.18	20.24	20.19	20.39		
30	IQAM	100	0	20.33	20.29	20.27	20.22	20.33		
30	IQAM	100	24	20.30	20.15	20.33	20.33	20.24		
30	IQAM	100	0	20.13	20.19	20.24	20.39	20.34		
Channel										
Frequency (MHz)										
2503.5	2548.1	2593	2637.7	2682.5						
15	QPSK	1	0	25.12	25.10	25.23	25.48	25.52	25.70	0
15	QPSK	1	37	25.08	25.24	25.23	25.43	25.58		
15	QPSK	1	74	25.16	25.20	25.27	25.38	25.61		
15	QPSK	36	0	24.03	24.43	24.46	24.45	24.41	24.7	1
15	QPSK	36	20	24.06	24.05	24.44	24.43	24.56		
15	QPSK	36	39	24.12	24.08	24.47	24.45	24.57		
15	QPSK	75	0	24.10	24.12	24.42	24.45	24.45		
15	IQAM	1	0	24.13	24.13	24.40	24.47	24.84	24.7	1
15	IQAM	1	37	24.10	24.11	24.44	24.48	24.50		
15	IQAM	1	74	24.15	24.09	24.46	24.44	24.53		
15	IQAM	36	0	23.28	23.00	23.41	23.40	23.63		
15	IQAM	36	20	23.16	23.42	23.41	23.42	23.51		
15	IQAM	36	39	23.11	23.05	23.42	23.41	23.59		
15	IQAM	75	0	23.10	23.10	23.46	23.49	23.58		
15	IQAM	75	0	23.10	23.21	23.39	23.39	23.25		
15	IQAM	1	0	23.11	23.07	23.22	23.11	23.23	23.7	2
15	IQAM	1	37	22.02	22.03	22.41	22.42	22.56		
15	IQAM	36	0	22.07	22.03	22.41	22.42	22.58		
15	IQAM	36	20	22.07	22.03	22.41	22.42	22.58		
15	IQAM	75	0	22.06	22.06	22.48	22.43	22.53		
15	IQAM	75	0	22.06	22.04	22.36	22.34	22.52		
15	IQAM	1	0	20.15	20.14	20.36	20.24	20.27	20.7	5
15	IQAM	1	37	20.15	20.29	20.30	20.30	20.36		
15	IQAM	1	74	20.28	20.23	20.31	20.37	20.37		
15	IQAM	36	0	20.14	20.26	20.31	20.31	20.31		
15	IQAM	36	20	20.38	20.14	20.15	20.30	20.39		
15	IQAM	36	39	20.35	20.17	20.20	20.38	20.34		
15	IQAM	75	0	20.39	20.28	20.34	20.34	20.37		
Channel										
Frequency (MHz)										
39750	40165	40620	41055	41490						
30	QPSK	1	0	25.10	25.51	25.47	25.48	25.57	25.70	0
30	QPSK	1	25	25.14	25.56	25.50	25.54	25.53		
30	QPSK	1	50	25.05	25.46	25.47	25.47	25.46		
30	QPSK	25	0	24.08	24.43	24.42	24.41	24.57		
30	QPSK	25	12	24.07	24.48	24.40	24.47	24.53		
30	QPSK	25	25	24.09	24.45	24.48	24.48	24.57		
30	QPSK	50	0	24.07	24.45	24.40	24.46	24.56		
30	IQAM	1	0	24.04	24.44	24.40	24.44	24.44		
30	IQAM	1	49	24.14	24.42	24.38	24.46	24.52		
30	IQAM	1	99	24.09	24.49	24.39	24.47	24.51		
30	IQAM	25	0	23.04	23.30	23.43	23.44	23.57		
30	IQAM	25	12	23.09	23.47	23.48	23.48	23.87		
30	IQAM	25	26	23.10	23.51	23.38	23.52	23.58		
30	IQAM	50	0	23.10	23.60	23.46	23.47	23.56		
30	IQAM	50	1	23.09	23.17	23.20	23.18	23.22		
30	IQAM	1	0	23.12	23.18	23.19	23.17	23.26		
30	IQAM	1	49	23.12	23.26	23.21	23.11	23.35		
30	IQAM	1	99	22.08	22.46	22.45	22.47	22.58		
30	IQAM	25	0	22.04	22.40	22.48	22.49	22.50		
30	IQAM	25	12	22.09	22.47	23.48	23.48	23.87		
30	IQAM	25	26	22.10	22.51	22.38	22.52	22.58		
30	IQAM	50	0	22.09	22.44	22.36	22.44	22.56		
30	IQAM	50	1	20.44	20.79	20.81	20.11	20.33		
30	IQAM	1	0	20.20	20.41	20.37	20.12	20.14		
30	IQAM	1	49	20.24	20.26	20.31	20.43	20.22		
30	IQAM	1	99	20.34	20.23	20.35	20.13	20.35		
30	IQAM	25	0	20.33	20.24	20.25	20.20	20.28		
30	IQAM	25	12	20.29	20.10	20.29	20.44	20.40		
30	IQAM	25	26	20.22	20.12	20.24	20.30	20.21		
Channel										
Frequency (MHz)										
2488.5	2543.8	2599	2643.9	2687.5						
5	QPSK	1	0	25.11	25.53	25.47	25.44	25.61	25.70	0
5	QPSK	1	12	25.17	25.62	25.43	25.52	25.60		
5	QPSK	1	24	25.13	25.54	25.48	25.45	25.67		
5	QPSK	12	0	24.13	24.42	24.46	24.46	24.47		
5	QPSK	12	7	24.04	24.45	24.38	24.44	24.56		
5	QPSK	12	13	24.04	24.49	24.38	24.47	24.54		
5	QPSK	25	0	24.00	24.41	24.30	24.36	24.52		
5	QPSK	25	0	24.07	24.45	24.38	24.42	24.46		
5	IQAM	1	0	24.08	24.47	24.41	24.45	24.50		
5	IQAM	1	24	24.05	24.40	24.38	24.40	24.51		
5	IQAM	12	0	23.10	23.41	23.38	23.40	23.43		
5	IQAM	12	7	23.04	23.41	23.36	23.39	23.50		
5	IQAM	12	13	23.08	23.41	23.38	23.42	23.48		
5	IQAM	25	0	23.05	23.45	23.41	23.48	23.56		
5	IQAM	1	0	23.16	23.16	23.38	23.18	23.30		
5	IQAM	1	12	23.11	23.24	23.24	23.17	23.27		
5	IQAM	1	24	23.15	23.29	23.21	23.14	23.30		
5	IQAM	12	0	22.04	22.47	22.37	22.40	22.50		
5	IQAM	12	7	22.05	22.49	22.39	22.47	22.53		
5	IQAM	12	13	22.04	22.44	22.36	22.39	22.47		
5	IQAM	25	0	22.06	22.49	22.42	22.60	22.60		
5	IQAM	1	0	20.27	20.40	20.33	20.44	20.23		
5	IQAM	1	12	20.37	20.31	20.38	20.21	20.32		
5	IQAM	1	24	20.34	20.18	20.17	20.21	20.35		
5	IQAM	12	0	20.21	20.28	20.30	20.24	20.40		
5	IQAM	12	7	20.14	20.15	20.27	20.12	20.34		
5	IQAM	12	13	20.28	20.45	20.34	20.45	20.23		
5	IQAM	25	0	20.16	20.40	20.30	20.10	20.12		

Band 41_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Power High Ch / Freq	Tune-up limit (dB)	MPE (dB)
Channel										
Frequency (MHz)										
39750	40165	40620	41055	41490						
30	QPSK	1	0	24.04	24.29	24.42	24.31	24.35	25	0
30	QPSK	1	49	24.08	24.30	24.40	24.30	24.35		
30	QPSK	1	99	24.08	24.38	24.42	24.33	24.41		
30	QPSK	50	0	23.09	23.45	23.44	23.39	23.38		
30	QPSK	50	24	23.09	23.32	23.35	23.15	23.35		
30	QPSK	50	50	23.05	23.32	23.35	23.11	23.35		
30	QPSK	100	0	23.05	23.36	23.35	23.21	23.11		
30	IQAM	1	0	23.07	23.20	23.12	23.40	23.42		
30	IQAM	1	49	23.00	23.30	23.14	23.34	23.40		
30	IQAM	1	99	23.09	23.40	23.19	23.34	23.45		
30	IQAM	50	0	22.09	22.32	22.19	22.42	22.37		
30	IQAM	50	24	22.10	22.30	22.17	22.39	22.38		
30	IQAM	100	0	22.07	22.32	22.15	22.36	22.39		
30	IQAM	100	24	21.77	21.99					







Band 7_Ant 3										
SVT (MHz)	Multiplex	FE Size	FE Chn	Power Low	Power High	Power Tgt	Turn-up (dB)	Latency (ms)	Mod	Beam
Channel										
2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000
20	OPRS	1	0	15.72	15.88	15.74				
20	OPRS	1	48	15.51	15.57	15.55			80.7	0
20	OPRS	1	96	15.45	15.51	15.48				
20	OPRS	36	24	15.52	15.58	15.55			80.7	0
20	OPRS	100	0	15.47	15.53	15.50				
20	IRDM	1	0	15.50	15.50	15.50				
20	IRDM	1	48	15.29	15.49	15.12			80.7	0
20	IRDM	1	96	15.30	15.48	15.11				
20	IRDM	36	24	15.45	15.55	15.54			80.7	0
20	IRDM	100	0	15.45	15.55	15.54				
20	IRDM	100	0	15.44	15.55	15.55				
20	IRDM	1	48	15.27	15.35	15.35			80.7	0
20	IRDM	1	96	15.25	15.37	15.31				
20	IRDM	36	24	15.37	15.51	15.41			80.7	0
20	IRDM	100	0	15.34	15.46	15.40				
20	IRDM	100	0	15.34	15.42	15.38			80.7	0
20	IRDM	100	0	15.45	15.55	15.51				
20	ZIRDM	1	48	15.21	15.41	15.40			80.7	0
20	ZIRDM	1	96	15.47	15.55	15.54				
20	ZIRDM	36	24	15.45	15.53	15.57			80.7	0
20	ZIRDM	100	0	15.34	15.41	15.36				
20	ZIRDM	100	0	15.41	15.53	15.53				
20	ZIRDM	100	0	15.34	15.41	15.39				
Channel										
2100	2100	2100	2100	2100	2100	2100				
Frequency (MHz)										
15	OPRS	1	0	15.50	15.70	15.72				
15	OPRS	1	37	15.30	15.45	15.35			80.7	0
15	OPRS	1	74	15.48	15.55	15.48				
15	OPRS	36	24	15.25	15.50	15.45			80.7	0
15	OPRS	100	0	15.30	15.45	15.40				
15	OPRS	36	24	15.44	15.55	15.54			80.7	0
15	IRDM	1	0	15.50	15.50	15.50				
15	IRDM	1	4	15.18	15.35	15.35			80.7	0
15	IRDM	1	74	15.12	15.32	15.32				
15	IRDM	36	24	15.38	15.52	15.41			80.7	0
15	IRDM	100	0	15.30	15.45	15.40				
15	IRDM	100	0	15.36	15.44	15.53			80.7	0
15	IRDM	1	0	15.50	15.41	15.39				
15	IRDM	1	74	15.55	15.51	15.55			80.7	0
15	IRDM	36	24	15.38	15.55	15.48				
15	IRDM	36	24	15.32	15.57	15.51			80.7	0
15	IRDM	100	0	15.30	15.45	15.40				
15	IRDM	100	0	15.36	15.56	15.49			80.7	0
15	ZIRDM	1	37	15.28	15.48	15.45			80.7	0
15	ZIRDM	1	74	15.29	15.47	15.51				
15	ZIRDM	36	24	15.32	15.46	15.44			80.7	0
15	ZIRDM	100	0	15.30	15.41	15.34				
15	ZIRDM	36	24	15.38	15.51	15.50			80.7	0
15	ZIRDM	100	0	15.17	15.37	15.50				
Channel										
2200	2200	2200	2200	2200	2200	2200				
Frequency (MHz)										
10	OPRS	1	0	15.44	15.72	15.61				
10	OPRS	1	25	15.36	15.42	15.46			80.7	0
10	OPRS	1	50	15.40	15.48	15.44				
10	OPRS	36	24	15.42	15.52	15.50			80.7	0
10	OPRS	100	0	15.47	15.53	15.50				
10	OPRS	100	0	15.32	15.51	15.45			80.7	0
10	OPRS	100	0	15.50	15.55	15.53				
10	IRDM	1	0	15.50	15.50	15.50				
10	IRDM	1	25	15.24	15.20	15.25			80.7	0
10	IRDM	1	50	15.40	15.43	15.45				
10	IRDM	36	24	15.19	15.54	15.57			80.7	0
10	IRDM	100	0	15.30	15.50	15.57				
10	IRDM	100	0	15.35	15.56	15.53			80.7	0
10	IRDM	1	0	15.50	15.38	15.57				
10	IRDM	1	48	15.45	15.56	15.52			80.7	0
10	IRDM	1	96	15.34	15.50	15.47				
10	IRDM	36	24	15.34	15.50	15.45			80.7	0
10	IRDM	100	0	15.36	15.50	15.43				
10	IRDM	100	0	15.36	15.54	15.51			80.7	0
10	ZIRDM	1	0	15.24	15.35	15.74				
10	ZIRDM	1	25	15.31	15.41	15.41			80.7	0
10	ZIRDM	1	50	15.30	15.41	15.43				
10	ZIRDM	36	24	15.27	15.53	15.50			80.7	0
10	ZIRDM	100	0	15.19	15.43	15.44				
10	ZIRDM	100	0	15.45	15.43	15.30			80.7	0
10	ZIRDM	100	0	15.28	15.37	15.58				
Channel										
2300	2300	2300	2300	2300	2300	2300				
Frequency (MHz)										
5	OPRS	1	0	15.45	15.78	15.72				
5	OPRS	1	12	15.46	15.46	15.46			80.7	0
5	OPRS	1	24	15.37	15.41	15.41				
5	OPRS	12	7	15.30	15.50	15.51			80.7	0
5	OPRS	12	13	15.44	15.53	15.53				
5	OPRS	36	24	15.45	15.53	15.50			80.7	0
5	IRDM	1	12	15.28	15.14	14.93			80.7	0
5	IRDM	1	24	15.27	15.36	15.37				
5	IRDM	12	7	15.34	15.53	15.46			80.7	0
5	IRDM	12	13	15.48	15.58	15.57				
5	IRDM	36	24	15.25	15.27	15.44				
5	IRDM	1	12	15.43	15.47	15.44			80.7	0
5	IRDM	1	24	15.43	15.53	15.53				
5	IRDM	12	0	15.25	15.36	15.45				
5	IRDM	12	13	15.41	15.51	15.51			80.7	0
5	IRDM	36	24	15.18	15.46	15.41				
5	IRDM	100	0	15.18	15.47	15.70				
5	ZIRDM	1	12	15.20	15.54	15.51			80.7	0
5	ZIRDM	1	24	15.35	15.50	15.57				
5	ZIRDM	12	0	15.43	15.40	15.57				
5	ZIRDM	12	13	15.27	15.37	15.54			80.7	0
5	ZIRDM	36	24	15.24	15.50	15.54				

Band 7_Ant 5										
SVT (MHz)	Multiplex	FE Size	FE Chn	Power Low	Power High	Power Tgt	Turn-up (dB)	Latency (ms)	Mod	Beam
Channel										
2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000
20	OPRS	1	0	11.67	12.27	12.20				
20	OPRS	1	96	11.56	11.61	11.59			13.5	0
20	OPRS	1	192	11.62	12.13	12.06				
20	OPRS	36	24	11.62	12.14	12.05			13.5	0
20	OPRS	100	0	11.59	12.04	11.93				
20	IRDM	1	0	11.56	11.56	11.54				
20	IRDM	1	96	11.73	11.96	11.96			13.5	0
20	IRDM	1	192	11.76	12.01	12.06				
20	IRDM	36	24	11.62	12.11	11.95			13.5	0
20	IRDM	100	0	11.66	12.12	12.07				
20	IRDM	100	0	11.66	12.08	12.07				
20	IRDM	1	48	11.75	12.05	12.05			13.5	0
20	IRDM	1	96	11.62	12.14	12.07				
20	IRDM	36	24	11.66	12.07	12.11			13.5	0
20	IRDM	100	0	11.57	12.05	11.95				
20	IRDM	100	0	11.60	12.02	11.94				
20	IRDM	1	48	12.12	11.99	11.93			13.5	0
20	IRDM	1	96	12.11	11.95	11.92				
20	IRDM	36	24	12.14	11.95	11.85			13.5	0
20	IRDM	100	0	12.12	11.94	11.82				
20	IRDM	100	0	12.11	11.95	11.92				
Channel										
2100	2100	2100	2100	2100	2100	2100				
Frequency (MHz)										
15	OPRS	1	0	11.55	12.27	12.20				
15	OPRS	1	37	11.54	11.96	11.94			13.5	0
15	OPRS	1	74	11.56	11.93	11.93				
15	OPRS	36	24	11.51	12.08	12.01			13.5	0
15	OPRS	100	0	11.55	12.01	11.98				
15	OPRS	36	24	11.60	12.04	11.94				
15	IRDM	1	0	11.55	11.54	11.52				
15	IRDM	1	4	11.71	11.92	11.92			13.5	0
15	IRDM	1	74	11.71	11.92	11.92				
15	IRDM	36	24	11.63	12.12	11.94			13.5	0
15	IRDM	100	0	11.55	11.95	11.95				
15	IRDM	100	0	11.57	12.01	11.95				
15	IRDM	1	0	12.02	11.90	11.85			13.5	0
15	IRDM	1	74	11.83	12.03	11.99				
15	IRDM	36	24	11.60	12.02	11.91				
15	IRDM	36	24	11.60	12.07	11.99			13.5	0
15	IRDM	100	0	11.55	12.05	11.95				
15	IRDM	100	0	11.66	12.02	11.95				
15	ZIRDM	1	37	12.12	11.98	11.92			13.5	0
15	ZIRDM	1	74	12.02	11.97	11.95				
15	ZIRDM	36	24	12.10	11.96	11.79			13.5	0
15	ZIRDM	100	0	12.07	11.90	11.80				
Channel										
2200	2200	2200	2200							



Band 38_Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)			
Channel											
Frequency (MHz)				37650	38050	38550					
20	QPSK	1	0	21.73	21.78	21.70					
20	QPSK	1	49	21.84	21.72	21.82			23	0	
20	QPSK	1	99	22.09	21.80	21.91					
20	QPSK	50	0	21.88	21.76	21.72					
20	QPSK	50	24	21.78	21.76	21.74			23	0	
20	QPSK	100	0	21.77	21.68	21.72					
20	16QAM	1	0	21.76	21.70	21.73					
20	16QAM	1	49	21.78	21.71	21.80					
20	16QAM	1	99	21.88	21.72	21.75					
20	16QAM	50	0	20.75	20.79	20.80					
20	16QAM	50	24	20.75	20.79	20.79			22	1	
20	16QAM	100	0	20.76	20.70	20.75					
20	64QAM	1	0	20.49	20.45	20.43					
20	64QAM	1	49	20.52	20.46	20.51			22	1	
20	64QAM	1	99	20.57	20.55	20.43					
20	64QAM	50	0	19.71	19.75	19.72					
20	64QAM	50	24	19.76	19.74	19.75			21	2	
20	64QAM	50	50	19.72	19.76	19.78					
20	256QAM	1	0	19.76	19.75	19.70					
20	256QAM	1	49	17.58	17.66	17.72					
20	256QAM	1	99	17.70	17.63	17.61			19	4	
20	256QAM	50	0	17.58	17.56	17.68					
20	256QAM	50	24	17.37	17.56	17.57			19	4	
20	256QAM	50	50	17.48	17.40	17.39					
20	256QAM	100	0	17.41	17.38	17.30					
Channel											
Frequency (MHz)				2577.5	2595	2612.5			Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	21.70	21.77	21.65					
15	QPSK	1	37	21.79	21.69	21.65			23	0	
15	QPSK	1	74	22.08	21.89	21.87					
15	QPSK	36	0	21.84	21.73	21.80					
15	QPSK	36	20	21.74	21.64	21.73			23	0	
15	QPSK	36	39	21.78	21.68	21.73					
15	16QAM	1	0	21.72	21.63	21.63					
15	16QAM	1	4	21.72	21.63	21.72					
15	16QAM	1	37	21.88	21.85	21.70			23	0	
15	16QAM	1	74	21.85	21.82	21.69					
15	16QAM	36	0	20.89	20.74	20.79					
15	16QAM	36	20	20.75	20.70	20.80			22	1	
15	16QAM	36	39	20.86	20.80	20.72					
15	64QAM	1	0	20.38	20.41	20.37					
15	64QAM	1	37	20.51	20.44	20.42			22	1	
15	64QAM	36	0	19.51	19.52	19.44					
15	64QAM	36	20	19.73	19.64	19.75			21	2	
15	64QAM	36	39	19.71	19.70	19.68					
15	256QAM	1	0	17.50	17.65	17.70					
15	256QAM	1	37	17.65	17.65	17.59			19	4	
15	256QAM	1	74	17.81	17.81	17.47					
15	256QAM	36	0	17.52	17.54	17.54					
15	256QAM	36	20	17.45	17.33	17.25			19	4	
15	256QAM	36	39	17.41	17.27	17.25					
Channel											
Frequency (MHz)				37650	38050	38550			Tune-up limit (dBm)	MFR (dB)	
10	QPSK	1	0	21.69	21.76	21.70					
10	QPSK	1	25	21.75	21.66	21.78			23	0	
10	QPSK	1	50	21.83	21.68	21.67					
10	QPSK	25	0	21.83	21.74	21.83					
10	QPSK	25	12	21.77	21.68	21.66			23	0	
10	QPSK	25	25	21.77	21.72	21.69					
10	QPSK	50	0	21.72	21.62	21.69					
10	16QAM	1	0	21.71	21.60	21.63					
10	16QAM	1	25	21.73	21.65	21.75			23	0	
10	16QAM	1	49	21.86	21.68	21.73					
10	16QAM	25	0	20.75	20.76	20.80					
10	16QAM	25	12	20.87	20.82	20.69			22	1	
10	16QAM	25	25	20.74	20.86	20.72					
10	16QAM	50	0	20.86	20.79	20.88					
10	64QAM	1	0	20.42	20.38	20.33					
10	64QAM	1	25	20.53	20.40	20.40			22	1	
10	64QAM	1	49	20.46	20.53	20.37					
10	64QAM	25	0	19.50	19.74	19.65					
10	64QAM	25	12	19.69	19.70	19.78			21	2	
10	64QAM	25	25	19.69	19.86	19.75					
10	64QAM	50	0	19.73	19.86	19.67					
10	256QAM	1	0	17.52	17.61	17.66					
10	256QAM	1	25	17.68	17.47	17.50			19	4	
10	256QAM	1	49	17.60	17.54	17.54					
10	256QAM	25	0	17.52	17.45	17.45					
10	256QAM	25	12	17.35	17.34	17.26			19	4	
10	256QAM	25	25	17.41	17.23	17.27					
10	256QAM	50	0	17.38	17.37	17.28					
Channel											
Frequency (MHz)				2577.5	2595	2612.5			Tune-up limit (dBm)	MFR (dB)	
5	QPSK	1	0	21.69	21.74	21.62					
5	QPSK	1	12	21.82	21.65	21.72			23	0	
5	QPSK	1	24	22.08	21.73	21.70					
5	QPSK	12	0	21.88	21.76	21.67					
5	QPSK	12	12	21.77	21.74	21.71			23	0	
5	QPSK	12	13	21.76	21.68	21.65					
5	16QAM	1	0	21.66	21.67	21.74					
5	16QAM	1	12	21.69	21.68	21.72			23	0	
5	16QAM	1	24	21.84	21.72	21.67					
5	16QAM	12	0	20.88	20.76	20.75					
5	16QAM	12	7	20.74	20.66	20.74			22	1	
5	16QAM	12	13	20.76	20.82	20.65					
5	16QAM	25	0	20.86	20.86	20.88					
5	64QAM	1	0	20.46	20.44	20.35					
5	64QAM	1	12	20.50	20.44	20.45			22	1	
5	64QAM	1	24	20.56	20.45	20.36					
5	64QAM	12	0	19.70	19.74	19.70					
5	64QAM	12	7	19.72	19.88	19.75			21	2	
5	64QAM	12	13	19.60	19.76	19.78					
5	64QAM	25	0	19.74	19.64	19.63					
5	256QAM	1	0	17.47	17.60	17.68					
5	256QAM	1	12	17.68	17.53	17.60			19	4	
5	256QAM	1	24	17.65	17.54	17.55					
5	256QAM	12	0	17.49	17.45	17.47					
5	256QAM	12	7	17.37	17.37	17.34			19	4	
5	256QAM	12	13	17.39	17.37	17.34					
5	256QAM	25	0	17.41	17.28	17.28					

Band 38_Ant 2											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MFR (dB)			
Channel											
Frequency (MHz)				37950	38000	38550					
20	QPSK	1	0	21.21	21.21	21.20					
20	QPSK	1	49	21.36	21.22	21.29			22	0	
20	QPSK	1	99	21.59	21.26	21.35					
20	QPSK	50	0	21.42	21.19	21.21					
20	QPSK	50	24	21.45	21.29	21.21			22	0	
20	QPSK	100	0	21.38	21.27	21.27					
20	16QAM	1	0	21.41	21.31	21.22					
20	16QAM	1	49	21.41	21.30	21.38			22	0	
20	16QAM	1	99	21.45	21.43	21.41					
20	16QAM	50	0	21.45	21.22	21.21					
20	16QAM	50	24	21.41	21.25	21.26			22	0	
20	16QAM	100	0	21.45	21.22	21.24					
20	64QAM	1	0	21.62	20.91	20.98					
20	64QAM	1	49	21.43	21.63	21.00			22	0	
20	64QAM	1	99	21.17	21.12	21.68					
20	64QAM	50	0	21.35	21.34	21.04					
20	64QAM	50	24	21.35	21.31	21.35			22	0	
20	64QAM	50	50	21.40	21.32	21.27					
20	256QAM	1	0	19.35	19.36	19.36					
20	256QAM	1	49	19.52	19.35	19.30			20.5	1.5	
20	256QAM	1	99	19.55	19.49	19.50					
20	256QAM	50	0	19.74	19.65	19.65					
20	256QAM	50	24	19.71	19.61	19.66			20.5	1.5	
20	256QAM	50	50	19.71	19.68	19.64					
20	256QAM	100	0	19.84	19.70	19.71					
Channel											
Frequency (MHz)				2577.5	2595	2612.5			Tune-up limit (dBm)	MFR (dB)	
15	QPSK	1	0	21.16	21.11	21.11					
15	QPSK	1	37	21.29	21.18	21.19			22	0	
15	QPSK	1	74	21.44	21.27	21.26					
15	QPSK	36	0	21.33	21.25	21.26					
15	QPSK	36	20	21.38	21.25	21.28			22	0	
15	QPSK	36	39	21.33	21.34	21.31					
15	16QAM	1	0	21.27	21.27	21.17					
15	16QAM	1	4	21.24	21.24	21.16					
15	16QAM	1	37	21.38	21.28	21.32			22	0	
15	16QAM	1	74	21.35	21.30	21.33					



Band 38\_Ant 5

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Tune-up (dB), MPR, Channel, Frequency (MHz). Contains data for various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM, and 1024QAM across different bandwidths and power levels.

Band 41\_Ant 0

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Power, Power, Tune-up (dB), MPR, Channel, Frequency (MHz). Contains data for various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM, and 1024QAM across different bandwidths and power levels.

Band 41\_Ant 2

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Power, Power, Power, Power, Tune-up (dB), MPR, Channel, Frequency (MHz). Contains data for various modulation schemes like QPSK, 16QAM, 64QAM, 256QAM, and 1024QAM across different bandwidths and power levels.



Band 41_Ant 3														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)	Channel		
												39750	40150	40550
Channel														
Frequency (MHz)														
20	QPSK	1	0	18.13	18.29	18.51	18.43	18.49						
20	QPSK	1	40	18.14	18.40	18.57	18.35	18.48	18.7	0				
20	QPSK	1	80	18.21	18.69	18.84	18.51	18.67						
20	QPSK	50	0	18.18	18.68	18.87	18.47	18.54						
20	QPSK	50	20	18.25	18.30	18.30	18.45	18.48						
20	QPSK	50	24	18.32	18.32	18.46	18.40	18.43	18.7	0				
20	QPSK	100	0	18.08	18.52	18.50	18.41	18.51						
20	16QAM	1	0	18.15	18.35	18.36	18.41	18.25						
20	16QAM	1	40	18.02	18.43	18.30	18.47	18.58	18.7	0				
20	16QAM	1	80	18.10	18.27	18.27	18.47	18.43						
20	16QAM	50	0	18.09	18.43	18.36	18.40	18.54						
20	16QAM	50	24	18.13	18.52	18.36	18.44	18.53	18.7	0				
20	16QAM	100	0	18.15	18.44	18.42	18.43	18.47						
20	64QAM	1	0	18.16	18.36	18.32	18.20	18.16						
20	64QAM	1	40	18.14	18.31	18.30	18.09	18.49	18.7	0				
20	64QAM	1	80	18.12	18.19	18.11	18.16	18.22						
20	64QAM	50	0	18.05	18.47	18.26	18.40	18.53						
20	64QAM	50	24	18.12	18.45	18.36	18.35	18.52	18.7	0				
20	64QAM	100	0	18.14	18.49	18.45	18.48	18.44						
20	64QAM	100	0	18.15	18.44	18.42	18.43	18.47						
20	256QAM	1	0	18.28	18.13	18.19	18.27	18.00						
20	256QAM	1	40	18.38	18.13	18.09	18.19	18.14	18.7	0				
20	256QAM	1	80	18.18	18.43	18.29	18.31	18.25						
20	256QAM	50	0	18.20	18.18	18.43	18.03	18.39						
20	256QAM	50	24	18.27	18.20	18.31	18.17	18.20	18.7	0				
20	256QAM	100	0	18.27	18.14	18.15	18.33	18.27						
20	256QAM	100	0	18.07	18.19	18.15	18.33	18.27						
Channel														
Frequency (MHz)														
15	QPSK	1	0	18.00	18.21	18.49	18.35	18.40						
15	QPSK	1	20	18.09	18.32	18.56	18.24	18.38	18.70	0				
15	QPSK	1	40	18.07	18.62	18.58	18.50	18.50						
15	QPSK	50	0	18.07	18.69	18.57	18.57	18.57						
15	QPSK	50	20	18.08	18.20	18.51	18.40	18.42	18.7	0				
15	QPSK	50	24	18.02	18.24	18.41	18.39	18.35						
15	16QAM	1	0	18.05	18.48	18.48	18.32	18.44						
15	16QAM	1	40	18.11	18.28	18.36	18.33	18.48						
15	16QAM	1	80	18.01	18.38	18.24	18.48	18.49	18.7	0				
15	16QAM	50	0	18.18	18.47	18.26	18.43	18.52						
15	16QAM	50	20	18.09	18.37	18.29	18.35	18.44						
15	16QAM	50	24	18.07	18.47	18.31	18.34	18.49	18.7	0				
15	16QAM	100	0	18.10	18.33	18.32	18.41	18.38						
15	16QAM	100	0	18.04	18.37	18.32	18.41	18.38						
15	16QAM	100	0	18.04	18.37	18.31	18.43	18.28						
15	16QAM	50	0	18.14	18.04	18.00	18.19	18.07						
15	64QAM	1	0	18.13	18.11	18.17	18.03	18.12						
15	64QAM	1	20	18.12	18.12	18.25	18.29	18.47						
15	64QAM	50	0	18.03	18.32	18.34	18.24	18.41						
15	64QAM	50	20	18.04	18.47	18.44	18.47	18.44	18.7	0				
15	64QAM	50	24	18.10	18.22	18.30	18.30	18.45						
15	256QAM	1	0	18.17	18.12	18.14	18.26	18.02						
15	256QAM	1	20	18.24	18.11	18.05	18.09	18.09	18.7	0				
15	256QAM	1	40	18.05	18.12	18.22	18.09	18.31						
15	256QAM	50	0	18.08	18.09	18.26	18.36	18.26						
15	256QAM	50	20	18.27	18.08	18.26	18.08	18.21	18.7	0				
15	256QAM	50	24	18.08	18.04	18.10	18.21	18.10						
15	256QAM	100	0	18.07	18.05	18.05	18.22	18.10						
Channel														
Frequency (MHz)														
5	QPSK	1	0	18.00	18.25	18.50	18.37	18.39						
5	QPSK	1	25	18.14	18.37	18.50	18.24	18.37	18.70	0				
5	QPSK	1	50	18.05	18.61	18.54	18.44	18.46						
5	QPSK	25	0	18.02	18.85	18.58	18.44	18.46						
5	QPSK	25	12	18.11	18.30	18.56	18.32	18.37	18.7	0				
5	QPSK	25	7	18.07	18.23	18.50	18.50	18.42						
5	QPSK	12	13	18.01	18.22	18.46	18.39	18.38						
5	16QAM	1	0	18.09	18.44	18.47	18.35	18.46						
5	16QAM	1	12	18.15	18.27	18.29	18.38	18.55						
5	16QAM	1	24	18.08	18.41	18.28	18.41	18.43	18.7	0				
5	16QAM	25	0	18.09	18.37	18.28	18.34	18.50						
5	16QAM	25	12	18.01	18.38	18.26	18.31	18.52						
5	16QAM	25	7	18.03	18.43	18.33	18.37	18.40	18.7	0				
5	16QAM	12	13	18.12	18.32	18.33	18.41	18.39						
5	16QAM	25	0	18.07	18.38	18.40	18.34	18.44						
5	64QAM	1	0	18.08	18.34	18.01	18.15	18.07						
5	64QAM	1	12	18.06	18.07	18.10	18.01	18.15	18.7	0				
5	64QAM	1	24	18.06	18.12	18.05	18.08	18.20						
5	64QAM	12	0	18.07	18.46	18.20	18.40	18.49						
5	64QAM	12	7	18.04	18.41	18.30	18.35	18.49	18.7	0				
5	64QAM	12	13	18.04	18.39	18.43	18.47	18.39						
5	64QAM	25	0	18.03	18.22	18.28	18.30	18.48						
5	256QAM	1	0	18.21	18.11	18.10	18.23	18.02						
5	256QAM	1	12	18.20	18.04	18.02	18.08	18.03	18.7	0				
5	256QAM	1	24	18.07	18.07	18.21	18.21	18.28						
5	256QAM	12	0	18.10	18.18	18.41	18.01	18.31						
5	256QAM	12	7	18.24	18.16	18.31	18.07	18.25	18.7	0				
5	256QAM	12	13	18.08	18.14	18.05	18.18	18.19						
5	256QAM	25	0	18.04	18.18	18.04	18.25	18.27						

Band 41_Ant 5														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPP (dB)	Channel		
												39750	40150	40550
Channel														
Frequency (MHz)														
20	QPSK	1	0	13.04	13.07	13.35	13.29	13.08						
20	QPSK	1	40	13.16	13.29	13.38	13.38	13.28	14.00	0				
20	QPSK	1	80	13.28	13.74	13.42	13.42	13.30						
20	QPSK	50	0	13.28	13.68	13.41	13.28	13.24						
20	QPSK	50	20	13.25	13.45	13.35	13.45	13.22						
20	QPSK	50	24	13.25	13.45	13.35	13.25	13.21	14	0				
20	QPSK	100	0	13.15	13.51	13.46	13.41	13.24						
20	16QAM	1	0	13.21	13.									



**Full Power level/Default Power level for 5G NR-ENDC  
For DFT-15**

n5_Ant 0 Default								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 167300	Middle Ch. Freq. 167300	High Ch. Freq. 167300		
Channel				834	836.5	838		
Frequency (MHz)				25.23	25.24	25.24		
20	PI2 BPSK	1	1	25.23	25.24	25.24	25.7	0.0
20	PI2 BPSK	1	53	25.22	25.25	25.23		
20	PI2 BPSK	1	104	25.17	25.17	25.12		
20	PI2 BPSK	50	0	24.45	24.57	24.48	25.2	0.5
20	PI2 BPSK	50	56	24.35	24.08	24.03	25.7	0.0
20	PI2 BPSK	50	56	24.43	24.51	24.36	25.2	0.5
20	PI2 BPSK	100	0	24.42	24.57	24.45		
20	QPSK	1	1	25.03	25.06	25.00		
20	QPSK	1	53	25.03	25.03	24.92	25.7	0.0
20	QPSK	1	104	24.88	25.01	24.90		
20	QPSK	50	0	23.98	24.06	24.01	24.7	1.0
20	QPSK	50	56	24.94	25.08	24.99	25.7	0.0
20	QPSK	50	56	23.85	24.04	23.85	24.7	1.0
20	QPSK	100	0	24.02	24.07	23.92		
20	16QAM	1	1	23.81	23.97	23.86	24.7	1.0
20	16QAM	1	1	22.43	22.56	22.39	23.2	2.5
20	256QAM	1	1	20.93	21.03	20.92	21.2	4.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
10	PI2 BPSK	1	1	23.02	23.07	24.00	25.7	0.0
Channel				168900	167300	168900	Tune-up limit (dBm)	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	PI2 BPSK	1	1	25.00	25.10	24.94	25.7	0.0
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR
Frequency (MHz)				836.5	836.5	846.5	(dBm)	(dB)
5	PI2 BPSK	1	1	25.02	25.06	24.98	25.7	0.0

n5_Ant 1 Default								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 167300	Middle Ch. Freq. 167300	High Ch. Freq. 167300		
Channel				834	836.5	838		
Frequency (MHz)				24.95	25.01	24.97		
20	PI2 BPSK	1	1	24.95	25.01	24.97	25.7	0.0
20	PI2 BPSK	1	53	24.94	24.98	24.96		
20	PI2 BPSK	1	104	24.84	24.74	24.76		
20	PI2 BPSK	50	0	24.73	24.79	24.73	25.2	0.5
20	PI2 BPSK	50	56	24.70	24.50	24.69	25.7	0.0
20	PI2 BPSK	50	56	24.58	24.72	24.68	25.2	0.5
20	PI2 BPSK	100	0	24.70	24.74	24.73		
20	QPSK	1	1	24.81	24.87	24.80		
20	QPSK	1	53	24.71	24.81	24.69	25.7	0.0
20	QPSK	1	104	24.59	24.66	24.61		
20	QPSK	50	0	23.57	23.70	23.56	24.7	1.0
20	QPSK	50	56	24.76	24.77	24.65	25.7	0.0
20	QPSK	50	56	23.47	23.59	23.50	24.7	1.0
20	QPSK	100	0	23.60	23.67	23.57		
20	16QAM	1	1	23.54	23.67	23.53	24.7	1.0
20	16QAM	1	1	22.16	22.28	22.23	23.2	2.5
20	256QAM	1	1	20.69	20.76	20.69	21.2	4.5
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
10	PI2 BPSK	1	1	24.62	24.74	24.69	25.7	0.0
Channel				168900	167300	168900	Tune-up limit (dBm)	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	PI2 BPSK	1	1	24.59	24.76	24.63	25.7	0.0
Channel				168300	167300	168300	Tune-up limit (dBm)	MPR
Frequency (MHz)				836.5	836.5	846.5	(dBm)	(dB)
5	PI2 BPSK	1	1	24.65	24.83	24.58	25.7	0.0

n7_Ant 0 Default								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. Freq. 509000	Middle Ch. Freq. 507000	High Ch. Freq. 509000		
Channel				2505	2535	2545		
Frequency (MHz)				22.39	22.41	22.39		
50	PI2 BPSK	1	1	22.39	22.41	22.39	24.0	0.0
50	PI2 BPSK	1	135	22.28	22.28	22.21		
50	PI2 BPSK	1	268	22.36	22.24	22.31		
50	PI2 BPSK	135	0	21.78	21.83	21.87	23.5	0.5
50	PI2 BPSK	135	68	22.35	22.38	22.21	24.0	0.0
50	PI2 BPSK	135	135	21.44	21.53	21.42	23.5	0.5
50	PI2 BPSK	270	0	21.74	21.75	21.66		
50	QPSK	1	1	22.37	22.40	22.35		
50	QPSK	1	135	22.25	22.34	22.23	24.0	0.0
50	QPSK	1	268	22.04	22.11	21.95		
50	QPSK	135	0	21.06	21.21	21.15	23.0	1.0
50	QPSK	135	68	22.15	22.21	22.12	24.0	0.0
50	QPSK	135	135	20.83	20.83	20.79	23.0	1.0
50	QPSK	270	0	21.02	21.13	21.06		
50	16QAM	1	1	21.21	21.26	21.15	23.0	1.0
50	16QAM	1	1	19.68	19.78	19.71	21.5	2.5
50	256QAM	1	1	18.69	18.69	18.56	19.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2505	2535	2550	(dBm)	(dB)
40	PI2 BPSK	1	1	22.31	22.33	22.27	24.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)
30	PI2 BPSK	1	1	22.36	22.31	22.31	24.0	0.0
Channel				502000	507000	515000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)
25	PI2 BPSK	1	1	21.40	21.56	21.40	24.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2515	2535	2550	(dBm)	(dB)
20	PI2 BPSK	1	1	22.37	22.15	22.30	24.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	PI2 BPSK	1	1	21.98	22.11	21.97	24.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	PI2 BPSK	1	1	22.00	22.19	22.02	24.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	PI2 BPSK	1	1	21.96	22.03	21.97	24.0	0.0



n7_Ant 2 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq. 505000]	Power Middle Ch. [Freq. 507000]	Power High Ch. [Freq. 509000]	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	24.48	24.59	24.55			
50	PI2 BPSK	1	135	24.22	24.28	24.14	25.0	0.0	
50	PI2 BPSK	1	268	24.34	24.28	24.55			
50	PI2 BPSK	135	0	23.82	23.89	23.80	24.5	0.5	
50	PI2 BPSK	135	68	24.06	24.33	24.26	25.0	0.0	
50	PI2 BPSK	135	135	23.82	23.85	23.78	24.5	0.5	
50	PI2 BPSK	270	0	23.86	23.90	23.82			
50	QPSK	1	1	24.34	24.43	24.34			
50	QPSK	1	135	23.94	24.10	23.97	25.0	0.0	
50	QPSK	1	268	24.15	24.27	24.21			
50	QPSK	135	0	23.73	23.83	23.69	24.0	1.0	
50	QPSK	135	68	24.19	24.24	24.17	25.0	0.0	
50	QPSK	135	135	23.54	23.68	23.66	24.0	1.0	
50	QPSK	270	0	23.67	23.75	23.68			
50	HQAM	1	1	23.51	23.62	23.50	24.0	1.0	
50	HQAM	1	1	21.92	21.96	21.90	22.5	2.5	
50	25GQAM	1	1	20.34	20.47	20.36	20.5	4.5	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.29	24.39	24.24	25.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.32	24.27	24.32	25.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	23.34	23.41	23.34	25.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.09	24.19	24.07	25.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.08	24.12	24.13	25.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.07	24.14	24.11	25.0	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	24.09	24.12	24.12	25.0	0.0	

n7_Ant 3 Default									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. [Freq. 505000]	Power Middle Ch. [Freq. 507000]	Power High Ch. [Freq. 509000]	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	24.32	24.52	24.19			
50	PI2 BPSK	1	135	24.18	24.24	24.02	25.7	0.0	
50	PI2 BPSK	1	268	24.24	24.43	24.18			
50	PI2 BPSK	135	0	23.83	23.96	23.86	25.2	0.5	
50	PI2 BPSK	135	68	24.22	24.31	24.26	25.7	0.0	
50	PI2 BPSK	135	135	23.93	24.00	23.84	25.2	0.5	
50	PI2 BPSK	270	0	23.76	23.85	23.75			
50	QPSK	1	1	24.24	24.39	24.33			
50	QPSK	1	135	24.00	24.16	24.05	25.7	0.0	
50	QPSK	1	268	24.47	24.51	24.36			
50	QPSK	135	0	23.16	23.28	23.13	24.7	1.0	
50	QPSK	135	68	24.17	24.29	24.24	25.7	0.0	
50	QPSK	135	135	23.16	23.26	23.00	24.7	1.0	
50	QPSK	270	0	23.09	23.20	23.06			
50	HQAM	1	1	22.83	22.89	22.78	24.7	1.0	
50	HQAM	1	1	21.42	21.47	21.38	23.2	2.5	
50	25GQAM	1	1	20.24	20.36	20.32	21.2	4.5	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	24.38	24.45	24.32	25.7	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	24.38	24.47	24.36	25.7	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	23.44	23.59	23.44	25.7	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	24.35	24.29	24.31	25.7	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	24.34	24.22	24.29	25.7	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	24.40	24.18	24.34	25.7	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	24.36	24.13	24.32	25.7	0.0	

n7_Ant 5 Default									
YYYYY	Modulation	RB Size	RB Offset	Power Low Ch. [Freq. 505000]	Power Middle Ch. [Freq. 507000]	Power High Ch. [Freq. 509000]	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	22.01	22.05	22.03			
50	PI2 BPSK	1	135	22.85	22.96	22.02	24.5	0.0	
50	PI2 BPSK	1	268	22.92	23.01	22.85			
50	PI2 BPSK	135	0	22.60	22.71	22.57	24.0	0.5	
50	PI2 BPSK	135	68	22.76	22.81	22.76	24.5	0.0	
50	PI2 BPSK	135	135	22.68	22.71	22.58	24.0	0.5	
50	PI2 BPSK	270	0	22.12	22.23	22.13			
50	QPSK	1	1	22.79	22.96	22.90			
50	QPSK	1	135	22.02	22.76	22.05	24.5	0.0	
50	QPSK	1	268	22.95	23.00	23.00			
50	QPSK	135	0	21.65	21.77	21.63	23.5	1.0	
50	QPSK	135	68	22.82	22.86	22.81	24.5	0.0	
50	QPSK	135	135	21.79	21.86	21.71	23.5	1.0	
50	QPSK	270	0	21.77	21.87	21.82			
50	HQAM	1	1	21.39	21.51	21.37	23.5	1.0	
50	HQAM	1	1	20.02	20.11	19.97	22.0	2.5	
50	25GQAM	1	1	18.93	19.07	18.88	20.0	4.5	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	22.92	23.00	22.92	24.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	22.87	22.97	22.84	24.5	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	22.94	22.36	22.92	24.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	22.92	22.84	22.93	24.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	22.90	22.88	22.92	24.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	22.94	22.83	22.84	24.5	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	22.85	22.84	22.91	24.5	0.0	



For DFT-30

n38_Ant 0 Default									
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)									
40	P12 BPSK	1	1	22.83	22.89	22.80			
40	P12 BPSK	1	53	22.73	22.68	22.56	24.0	0.0	
40	P12 BPSK	1	104	22.47	22.34	22.23			
40	P12 BPSK	50	0	21.87	22.02	21.92	23.5	0.5	
40	P12 BPSK	50	26	22.36	22.76	22.34	24.0	0.0	
40	P12 BPSK	50	56	22.01	22.15	22.09	23.5	0.5	
40	P12 BPSK	100	0	22.16	22.25	22.12			
40	QPSK	1	1	22.69	22.74	22.59			
40	QPSK	1	53	22.37	22.56	22.35	24.0	0.0	
40	QPSK	1	104	22.24	22.59	22.26			
40	QPSK	50	0	22.38	22.65	22.39			
40	QPSK	50	26	22.31	22.53	22.29	24.0	0.0	
40	QPSK	50	56	22.17	22.51	22.11			
40	QPSK	100	0	21.52	21.96	21.53	23.0	1.0	
40	16QAM	1	1	21.24	21.54	21.16	23.0	1.0	
40	64QAM	1	1	20.05	20.12	20.06	21.5	2.5	
40	256QAM	1	1	18.41	18.48	18.43	19.5	4.5	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	22.53	22.69	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	21.80	21.91	21.76	24.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	22.55	22.74	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	22.36	22.61	22.50	24.0	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	22.61	22.65	22.61	24.0	0.0	

n38_Ant 2 Default									
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)									
40	P12 BPSK	1	1	24.94	24.98	24.96			
40	P12 BPSK	1	53	24.82	24.83	24.74	25.5	0.0	
40	P12 BPSK	1	104	24.86	24.92	24.82			
40	P12 BPSK	50	0	24.07	24.22	24.12	25.0	0.5	
40	P12 BPSK	50	26	24.54	24.68	24.55	25.5	0.0	
40	P12 BPSK	50	56	24.86	24.07	23.59	25.0	0.5	
40	P12 BPSK	100	0	24.04	24.16	24.09			
40	QPSK	1	1	24.89	24.97	24.91			
40	QPSK	1	53	24.69	24.76	24.67	25.5	0.0	
40	QPSK	1	104	24.85	24.77	24.61			
40	QPSK	50	0	24.37	24.51	24.41			
40	QPSK	50	26	24.36	24.48	24.39	25.5	0.0	
40	QPSK	50	56	24.33	24.38	24.24			
40	QPSK	100	0	23.87	23.94	23.78	24.5	1.0	
40	16QAM	1	1	23.57	23.63	23.49	24.5	1.0	
40	64QAM	1	1	22.03	22.12	21.98	23.0	2.5	
40	256QAM	1	1	20.67	20.82	20.72	21.0	4.5	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	24.71	24.82	24.70	25.5	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	24.01	24.16	24.08	25.5	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	24.72	24.80	24.72	25.5	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	24.71	24.73	24.75	25.5	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	24.74	24.73	24.68	25.5	0.0	

n38_Ant 3 Default									
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)									
40	P12 BPSK	1	1	24.84	25.20	24.86			
40	P12 BPSK	1	53	24.82	25.00	24.82	25.7	0.0	
40	P12 BPSK	1	104	24.81	25.19	24.73			
40	P12 BPSK	50	0	24.38	24.58	24.33	25.2	0.5	
40	P12 BPSK	50	26	24.69	24.68	24.65	25.7	0.0	
40	P12 BPSK	50	56	24.17	24.28	24.19	25.2	0.5	
40	P12 BPSK	100	0	24.18	24.34	24.20			
40	QPSK	1	1	24.37	24.49	24.38			
40	QPSK	1	53	24.57	24.65	24.57	25.7	0.0	
40	QPSK	1	104	24.69	24.78	24.69			
40	QPSK	50	0	23.68	23.77	23.72			
40	QPSK	50	26	24.19	24.25	24.20	25.7	0.0	
40	QPSK	50	56	23.53	23.60	23.54			
40	QPSK	100	0	23.95	23.69	23.61	24.7	1.0	
40	16QAM	1	1	23.65	23.71	23.63	24.7	1.0	
40	64QAM	1	1	22.38	22.43	22.36	23.2	2.5	
40	256QAM	1	1	20.97	21.09	21.00	21.2	4.5	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	24.38	24.54	24.43	25.7	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	23.77	23.83	23.75	25.7	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	24.42	24.64	24.59	25.7	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	24.43	24.65	24.45	25.7	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	24.47	24.68	24.49	25.7	0.0	



n38_Ant 5 Default									
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)									
40	P12 BPSK	1	1	23.18	23.56	23.21			
40	P12 BPSK	1	33	23.06	23.46	23.11	25.0	0.0	
40	P12 BPSK	1	104	23.17	23.44	23.24			
40	P12 BPSK	50	0	22.84	23.00	22.91	24.5	0.5	
40	P12 BPSK	50	26	22.32	23.42	23.38	25.0	0.0	
40	P12 BPSK	50	56	22.80	22.90	22.84	24.5	0.5	
40	P12 BPSK	100	0	22.84	22.92	22.85			
40	QPSK	1	1	23.21	23.33	23.17			
40	QPSK	1	53	22.52	23.21	22.57	25.0	0.0	
40	QPSK	1	104	22.53	23.23	22.60			
40	QPSK	50	0	22.69	23.22	22.77			
40	QPSK	50	26	22.84	23.20	22.71	25.0	0.0	
40	QPSK	50	56	22.53	23.21	22.61			
40	QPSK	100	0	22.69	22.76	22.68	24.0	1.0	
40	16QAM	1	1	22.91	22.98	22.87	24.0	1.0	
40	64QAM	1	1	20.28	20.22	20.25	22.5	2.5	
40	256QAM	1	1	18.84	18.96	18.81	20.5	4.5	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	23.07	23.46	23.07	25.0	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	23.06	23.40	23.08	25.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	22.99	23.51	23.11	25.0	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	22.96	23.45	23.11	25.0	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	23.04	23.43	23.07	25.0	0.0	

Part27Q n78_Ant 4 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	26.32					
100	P12 BPSK	1	137	26.03			27.0	0.0	
100	P12 BPSK	1	211	26.29					
100	P12 BPSK	135	0	26.18			26.5	0.5	
100	P12 BPSK	135	69	26.23			27.0	0.0	
100	P12 BPSK	135	138	26.11			26.5	0.5	
100	P12 BPSK	270	0	26.13					
100	QPSK	1	1	26.23					
100	QPSK	1	137	26.05			27.0	0.0	
100	QPSK	1	271	26.13					
100	QPSK	135	0	26.26					
100	QPSK	135	69	26.84			27.0	0.0	
100	QPSK	135	138	26.00					
100	QPSK	270	0	26.09			26.0	1.0	
100	16QAM	1	1	24.98			26.0	1.0	
100	64QAM	1	1	23.51			24.5	2.5	
100	256QAM	1	1	22.21			22.5	4.5	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	26.21	26.19	26.26	27.0	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	26.15	26.07	26.15	27.0	0.0	
Channel									
Frequency (MHz)									
70	P12 BPSK	1	1	26.10	26.09	26.12	27.0	0.0	
Channel									
Frequency (MHz)									
60	P12 BPSK	1	1	26.06	26.00	26.10	27.0	0.0	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	26.06	26.09	26.11	27.0	0.0	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	26.15	26.06	26.13	27.0	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	26.16	26.10	26.15	27.0	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	26.02	26.01	26.01	27.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	26.12	26.10	26.11	27.0	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	26.05	26.08	26.16	27.0	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	26.16	26.08	26.15	27.0	0.0	

Part270 n78_Ant 4 Default									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1	26.28					
100	P12 BPSK	1	137	25.92			27.0	0.0	
100	P12 BPSK	1	211	26.25					
100	P12 BPSK	135	0	25.99			26.5	0.5	
100	P12 BPSK	135	69	26.23			27.0	0.0	
100	P12 BPSK	135	138	25.64			26.5	0.5	
100	P12 BPSK	270	0	26.12					
100	QPSK	1	1	26.00					
100	QPSK	1	137	25.91			27.0	0.0	
100	QPSK	1	271	26.19					
100	QPSK	135	0	25.97					
100	QPSK	135	69	26.00			27.0	0.0	
100	QPSK	135	138	26.04					
100	QPSK	270	0	25.92			26.0	1.0	
100	16QAM	1	1	25.10			26.0	1.0	
100	64QAM	1	1	22.65			24.5	2.5	
100	256QAM	1	1	21.95			22.5	4.5	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	25.99	25.97	26.04	27.0	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	25.94	25.83	25.94	27.0	0.0	
Channel									
Frequency (MHz)									
70	P12 BPSK	1	1	25.83	25.84	25.94	27.0	0.0	
Channel									
Frequency (MHz)									
60	P12 BPSK	1	1	25.93	25.92	25.94	27.0	0.0	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	25.83	25.85	25.94	27.0	0.0	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	25.87	25.89	25.92	27.0	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	25.85	25.90	25.92	27.0	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	25.86	25.86	25.90	27.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	25.93	25.83	25.99	27.0	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	25.84	25.83	25.97	27.0	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	25.94	25.83	25.99	27.0	0.0	



Part27Q n78_Ant 6 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	23.95						
100	P12 BPSK	1	137	23.70			25.0	0.0		
100	P12 BPSK	1	211	23.95						
100	P12 BPSK	135	0	23.35			24.5	0.5		
100	P12 BPSK	135	69	23.66			25.0	0.0		
100	P12 BPSK	135	138	23.25			24.5	0.5		
100	P12 BPSK	270	0	23.34						
100	QPSK	1	1	23.94						
100	QPSK	1	137	23.71			25.0	0.0		
100	QPSK	1	211	23.96						
100	QPSK	135	0	23.78						
100	QPSK	135	69	23.65			25.0	0.0		
100	QPSK	135	138	23.75						
100	QPSK	270	0	22.77			24.0	1.0		
100	16QAM	1	1	22.27			24.0	1.0		
100	64QAM	1	1	21.10			22.5	2.5		
100	256QAM	1	1	19.80			20.5	4.5		
Channel										
Frequency (MHz)										
90	P12 BPSK	1	1	23.86	63334	63596	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
80	P12 BPSK	1	1	23.79	3485	3500.01	3514.98	25.0	0.0	
Channel										
Frequency (MHz)										
70	P12 BPSK	1	1	23.76	63334	63432	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
60	P12 BPSK	1	1	23.73	3485.01	3500.01	3514.98	25.0	0.0	
Channel										
Frequency (MHz)										
50	P12 BPSK	1	1	23.70	63334	63466	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
40	P12 BPSK	1	1	23.67	3485.01	3500.01	3514.98	25.0	0.0	
Channel										
Frequency (MHz)										
30	P12 BPSK	1	1	23.64	63334	63596	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
20	P12 BPSK	1	1	23.61	3485.01	3500.01	3514.98	25.0	0.0	
Channel										
Frequency (MHz)										
10	P12 BPSK	1	1	23.58	63334	63632	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										

Part27Q n78_Ant 6 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	23.89						
100	P12 BPSK	1	137	23.56			25.0	0.0		
100	P12 BPSK	1	211	23.89						
100	P12 BPSK	135	0	23.10			24.5	0.5		
100	P12 BPSK	135	69	23.66			25.0	0.0		
100	P12 BPSK	135	138	23.25			24.5	0.5		
100	P12 BPSK	270	0	23.27						
100	QPSK	1	1	23.95						
100	QPSK	1	137	23.58			25.0	0.0		
100	QPSK	1	211	23.87						
100	QPSK	135	0	23.64						
100	QPSK	135	69	23.65			25.0	0.0		
100	QPSK	135	138	23.74						
100	QPSK	270	0	22.70			24.0	1.0		
100	16QAM	1	1	22.39			24.0	1.0		
100	64QAM	1	1	20.88			22.5	2.5		
100	256QAM	1	1	19.61			20.5	4.5		
Channel										
Frequency (MHz)										
90	P12 BPSK	1	1	23.87	63334	63596	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
80	P12 BPSK	1	1	23.80	3485	3500.01	3514.98	25.0	0.0	
Channel										
Frequency (MHz)										
70	P12 BPSK	1	1	23.73	63334	63432	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
60	P12 BPSK	1	1	23.66	3485.01	3500.01	3514.98	25.0	0.0	
Channel										
Frequency (MHz)										
50	P12 BPSK	1	1	23.59	63334	63466	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
40	P12 BPSK	1	1	23.52	3485.01	3500.01	3514.98	25.0	0.0	
Channel										
Frequency (MHz)										
30	P12 BPSK	1	1	23.45	63334	63596	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
20	P12 BPSK	1	1	23.38	3485.01	3500.01	3514.98	25.0	0.0	
Channel										
Frequency (MHz)										
10	P12 BPSK	1	1	23.31	63334	63632	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										

Part27Q n78_Ant 7 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	P12 BPSK	1	1	22.35						
100	P12 BPSK	1	137	22.16			23.5	0.0		
100	P12 BPSK	1	211	22.35						
100	P12 BPSK	135	0	21.76			23.0	0.5		
100	P12 BPSK	135	69	22.16			23.5	0.0		
100	P12 BPSK	135	138	21.70			23.0	0.5		
100	P12 BPSK	270	0	21.78						
100	QPSK	1	1	22.27						
100	QPSK	1	137	22.11			23.5	0.0		
100	QPSK	1	211	22.21						
100	QPSK	135	0	21.80						
100	QPSK	135	69	22.07			23.5	0.0		
100	QPSK	135	138	22.12						
100	QPSK	270	0	21.22			22.5	1.0		
100	16QAM	1	1	21.04			22.5	1.0		
100	64QAM	1	1	19.66			21.0	2.5		
100	256QAM	1	1	18.21			19.0	4.5		
Channel										
Frequency (MHz)										
90	P12 BPSK	1	1	22.22	63334	63596	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
80	P12 BPSK	1	1	22.13	3485	3500.01	3514.98	23.5	0.0	
Channel										
Frequency (MHz)										
70	P12 BPSK	1	1	22.10	63334	63432	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
60	P12 BPSK	1	1	22.08	3485.01	3500.01	3514.98	23.5	0.0	
Channel										
Frequency (MHz)										
50	P12 BPSK	1	1	22.13	63334	63466	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
40	P12 BPSK	1	1	22.17	3485.01	3500.01	3514.98	23.5	0.0	
Channel										
Frequency (MHz)										
30	P12 BPSK	1	1	22.17	63334	63596	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										
20	P12 BPSK	1	1	22.12	3485.01	3500.01	3514.98	23.5	0.0	
Channel										
Frequency (MHz)										
10	P12 BPSK	1	1	22.11	63334	63632	Tune-up limit (dBm)	MPR		
Channel										
Frequency (MHz)										



### Part27Q n78\_Ant 7 Default

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	22.15				
100	PI2 BPSK	1	137	21.89			23.5	0.0
100	PI2 BPSK	1	211	22.12				
100	PI2 BPSK	135	0	21.53			23.0	0.5
100	PI2 BPSK	135	69	22.05			23.5	0.0
100	PI2 BPSK	135	138	21.53			23.0	0.5
100	PI2 BPSK	270	0	21.57				
100	QPSK	1	1	22.06				
100	QPSK	1	137	21.87			23.5	0.0
100	QPSK	1	271	22.09				
100	QPSK	135	0	21.96				
100	QPSK	135	69	22.00			23.5	0.0
100	QPSK	135	138	22.05				
100	QPSK	270	0	21.93			22.5	1.0
100	16QAM	1	1	20.92			22.5	1.0
100	64QAM	1	1	19.40			21.0	2.5
100	256QAM	1	1	18.00			19.0	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	22.01	22.03	22.03	23.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	21.95	21.92	21.96	23.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	21.93	21.97	21.92	23.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	21.91	21.97	21.96	23.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	21.88	21.87	21.94	23.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	21.96	21.95	21.96	23.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	21.98	21.90	21.94	23.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	21.88	21.85	21.90	23.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	21.96	21.96	21.96	23.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	21.93	21.96	21.96	23.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	21.85	21.95	21.97	23.5	0.0

### Part27Q n78\_Ant 8 Default

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	25.79				
100	PI2 BPSK	1	137	25.84			27.0	0.0
100	PI2 BPSK	1	271	25.78				
100	PI2 BPSK	135	0	25.21			26.5	0.5
100	PI2 BPSK	135	69	25.94			27.0	0.0
100	PI2 BPSK	135	138	25.15			26.5	0.5
100	PI2 BPSK	270	0	25.16				
100	QPSK	1	1	25.75				
100	QPSK	1	137	25.56			27.0	0.0
100	QPSK	1	271	25.70				
100	QPSK	135	0	25.07				
100	QPSK	135	69	25.51			27.0	0.0
100	QPSK	135	138	25.04				
100	QPSK	270	0	24.83			26.0	1.0
100	16QAM	1	1	24.32			26.0	1.0
100	64QAM	1	1	23.10			24.5	2.5
100	256QAM	1	1	21.86			22.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.72	25.74	25.73	27.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.59	25.64	25.83	27.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	25.65	25.64	25.61	27.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.59	25.58	25.58	27.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.63	25.64	25.83	27.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.61	25.60	25.58	27.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.80	25.66	25.66	27.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	25.61	25.61	25.68	27.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.66	25.63	25.65	27.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	25.56	25.67	25.83	27.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	25.66	25.59	25.80	27.0	0.0

### Part27Q n78\_Ant 8 Default

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	25.69				
100	PI2 BPSK	1	137	25.43			27.0	0.0
100	PI2 BPSK	1	271	25.65				
100	PI2 BPSK	135	0	25.08			26.5	0.5
100	PI2 BPSK	135	69	25.53			27.0	0.0
100	PI2 BPSK	135	138	25.14			26.5	0.5
100	PI2 BPSK	270	0	25.11				
100	QPSK	1	1	25.99				
100	QPSK	1	137	25.46			27.0	0.0
100	QPSK	1	271	25.84				
100	QPSK	135	0	25.63				
100	QPSK	135	69	25.55			27.0	0.0
100	QPSK	135	138	25.50				
100	QPSK	270	0	24.83			26.0	1.0
100	16QAM	1	1	24.33			26.0	1.0
100	64QAM	1	1	22.91			24.5	2.5
100	256QAM	1	1	21.49			22.5	4.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	25.53	25.54	25.59	27.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	25.44	25.38	25.47	27.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	25.44	25.47	25.54	27.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	25.47	25.39	25.52	27.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	25.39	25.43	25.51	27.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	25.40	25.42	25.49	27.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	25.39	25.39	25.48	27.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	25.40	25.38	25.47	27.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	25.37	25.46	25.54	27.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	25.44	25.44	25.50	27.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	25.45	25.43	25.50	27.0	0.0



Reduced power level for 5G NR-ENDC  
For DFT-15

n5_Ant 0 DSI 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	838.5	838				
20	PI2 BPSK	1	1	25.23	25.26	25.24	25.7	0.0		
20	PI2 BPSK	1	53	25.22	25.25	25.23				
20	PI2 BPSK	1	104	25.17	25.17	25.12				
20	PI2 BPSK	50	0	24.45	24.47	24.45	25.0	0.5		
20	PI2 BPSK	50	28	24.95	25.05	25.03	25.7	0.0		
20	PI2 BPSK	50	56	24.43	24.51	24.38	25.2	0.5		
20	PI2 BPSK	100	0	24.42	24.57	24.45				
20	QPSK	1	1	25.03	25.08	25.00				
20	QPSK	1	53	24.93	25.03	24.92	25.7	0.0		
20	QPSK	1	104	24.88	25.01	24.90				
20	QPSK	50	0	23.98	24.06	24.01	24.7	1.0		
20	QPSK	50	28	24.94	25.08	24.99	25.7	0.0		
20	QPSK	50	56	23.89	24.04	23.95	24.7	1.0		
20	QPSK	100	0	24.02	24.07	23.92				
20	16QAM	1	1	23.81	23.97	23.86	24.7	1.0		
20	64QAM	1	1	22.43	22.55	22.39	23.2	2.5		
20	256QAM	1	1	20.59	21.03	20.62	21.2	4.5		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR		
Frequency (MHz)				831.5	838.5	841.5	(dBm)	(dB)		
15	PI2 BPSK	1	1	25.02	25.07	24.99	25.7	0.0		
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR		
Frequency (MHz)				829	838.5	841	(dBm)	(dB)		
10	PI2 BPSK	1	1	25.00	25.10	24.94	25.7	0.0		
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR		
Frequency (MHz)				826.5	838.5	846.5	(dBm)	(dB)		
5	PI2 BPSK	1	1	25.02	25.06	24.98	25.7	0.0		

n5_Ant 1 DSI 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	838.5	838				
20	PI2 BPSK	1	1	20.54	20.62	20.55	21.2	0.0		
20	PI2 BPSK	1	53	20.52	20.59	20.51				
20	PI2 BPSK	1	104	20.43	20.48	20.45				
20	PI2 BPSK	50	0	20.33	20.40	20.35	21.2	0.0		
20	PI2 BPSK	50	28	20.41	20.45	20.43	21.2	0.0		
20	PI2 BPSK	50	56	20.31	20.34	20.32	21.2	0.0		
20	PI2 BPSK	100	0	20.32	20.35	20.23				
20	QPSK	1	1	20.41	20.47	20.43				
20	QPSK	1	53	20.36	20.54	20.54	21.2	0.0		
20	QPSK	1	104	20.32	20.42	20.35				
20	QPSK	50	0	20.28	20.34	20.24	21.2	0.0		
20	QPSK	50	28	20.27	20.43	20.41	21.2	0.0		
20	QPSK	50	56	20.19	20.32	20.30	21.2	0.0		
20	QPSK	100	0	20.17	20.31	20.21				
20	16QAM	1	1	19.96	20.14	20.09	21.2	0.0		
20	64QAM	1	1	20.11	20.18	20.09	21.2	0.0		
20	256QAM	1	1	18.61	18.73	18.66	19.2	2.0		
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR		
Frequency (MHz)				831.5	838.5	841.5	(dBm)	(dB)		
15	PI2 BPSK	1	1	20.40	20.57	20.42	21.2	0.0		
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR		
Frequency (MHz)				829	838.5	841	(dBm)	(dB)		
10	PI2 BPSK	1	1	20.44	20.50	20.47	21.2	0.0		
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR		
Frequency (MHz)				826.5	838.5	846.5	(dBm)	(dB)		
5	PI2 BPSK	1	1	20.43	20.53	20.50	21.2	0.0		

n7_Ant 0 DSI 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				505000	507000	509000				
Frequency (MHz)				2525	2535	2545				
50	PI2 BPSK	1	1	22.38	22.41	22.38	24.0	0.0		
50	PI2 BPSK	1	135	22.28	22.28	22.21				
50	PI2 BPSK	1	268	22.35	22.24	22.21				
50	PI2 BPSK	135	0	21.75	21.83	21.67	23.5	0.5		
50	PI2 BPSK	135	68	22.38	22.38	22.21	24.0	0.0		
50	PI2 BPSK	135	135	21.44	21.53	21.42	23.5	0.5		
50	PI2 BPSK	270	0	21.74	21.75	21.66				
50	QPSK	1	1	22.37	22.40	22.35				
50	QPSK	1	135	22.28	22.34	22.23	24.0	0.0		
50	QPSK	1	268	22.04	22.11	21.95				
50	QPSK	135	0	21.08	21.21	21.15	23.0	1.0		
50	QPSK	135	68	22.13	22.21	22.12	24.0	0.0		
50	QPSK	135	135	20.83	20.93	20.79	23.0	1.0		
50	QPSK	270	0	21.02	21.13	21.06				
50	16QAM	1	1	21.21	21.28	21.15	23.0	1.0		
50	64QAM	1	1	19.68	19.78	19.71	21.5	2.5		
50	256QAM	1	1	18.60	18.69	18.56	19.5	4.5		
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2524	2535	2546	(dBm)	(dB)		
40	PI2 BPSK	1	1	22.31	22.32	22.27	24.0	0.0		
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2514	2534	2554	(dBm)	(dB)		
30	PI2 BPSK	1	1	22.35	22.31	22.31	24.0	0.0		
Channel				502000	507000	511500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)		
25	PI2 BPSK	1	1	21.40	21.50	21.40	24.0	0.0		
Channel				501000	507000	512000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)		
20	PI2 BPSK	1	1	22.37	22.15	22.30	24.0	0.0		
Channel				500000	507000	512500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)		
15	PI2 BPSK	1	1	21.98	22.11	21.97	24.0	0.0		
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2504	2535	2565	(dBm)	(dB)		
10	PI2 BPSK	1	1	22.00	22.19	22.02	24.0	0.0		
Channel				500000	507000	513500	Tune-up limit (dBm)	MPR		
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)		
5	PI2 BPSK	1	1	21.95	22.03	21.97	24.0	0.0		



### n7\_Ant 2 DSI 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								
Frequency (MHz)				505000	507000	509000		
Frequency (MHz)				2905	2935	2965		
50	PI2 BPSK	1	1	24.48	24.59	24.56		
50	PI2 BPSK	1	135	24.22	24.28	24.14	25.0	0.0
50	PI2 BPSK	1	268	24.34	24.28	24.55		
50	PI2 BPSK	135	0	23.92	23.99	23.90	24.5	0.5
50	PI2 BPSK	135	68	24.28	24.33	24.29	25.0	0.0
50	PI2 BPSK	135	135	23.82	23.85	23.78	24.5	0.5
50	PI2 BPSK	270	0	23.96	23.90	23.82		
50	QPSK	1	1	24.34	24.43	24.34		
50	QPSK	1	135	23.94	24.10	23.97	25.0	0.0
50	QPSK	1	268	24.15	24.27	24.21		
50	QPSK	135	0	23.73	23.83	23.69	24.0	1.0
50	QPSK	135	68	24.19	24.24	24.17	25.0	0.0
50	QPSK	135	135	23.54	23.68	23.56	24.0	1.0
50	QPSK	270	0	23.67	23.75	23.68		
50	16QAM	1	1	23.51	23.62	23.50	24.0	1.0
50	16QAM	1	1	21.32	21.35	21.30	22.5	2.5
50	256QAM	1	1	20.34	20.47	20.39	20.5	4.5
Channel								
Frequency (MHz)				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2900	2935	2960		
40	PI2 BPSK	1	1	24.28	24.39	24.24	25.0	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2915	2935	2955		
30	PI2 BPSK	1	1	24.32	24.27	24.32	25.0	0.0
Channel								
Frequency (MHz)				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2912.5	2935	2957.5		
25	PI2 BPSK	1	1	23.34	23.41	23.34	25.0	0.0
Channel								
Frequency (MHz)				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2910	2935	2960		
20	PI2 BPSK	1	1	24.09	24.19	24.07	25.0	0.0
Channel								
Frequency (MHz)				500000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2907.5	2935	2962.5		
15	PI2 BPSK	1	1	24.08	24.12	24.13	25.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2915	2935	2965		
10	PI2 BPSK	1	1	24.07	24.14	24.11	25.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2922.5	2935	2977.5		
5	PI2 BPSK	1	1	24.05	24.12	24.12	25.0	0.0

### n7\_Ant 3 DSI 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								
Frequency (MHz)				505000	507000	509000		
Frequency (MHz)				2905	2935	2965		
50	PI2 BPSK	1	1	15.48	15.62	15.42		
50	PI2 BPSK	1	135	15.45	15.51	15.40	16.2	0.0
50	PI2 BPSK	1	268	15.44	15.46	15.38		
50	PI2 BPSK	135	0	15.33	15.35	15.31	16.2	0.0
50	PI2 BPSK	135	68	15.52	15.57	15.48	16.2	0.0
50	PI2 BPSK	135	135	15.50	15.55	15.40	16.2	0.0
50	PI2 BPSK	270	0	15.53	15.61	15.42		
50	QPSK	1	1	15.27	15.27	15.13		
50	QPSK	1	135	15.03	15.09	14.90	16.2	0.0
50	QPSK	1	268	15.17	15.25	15.04		
50	QPSK	135	0	14.91	14.96	14.83	16.2	0.0
50	QPSK	135	68	15.45	15.46	15.32	16.2	0.0
50	QPSK	135	135	15.42	15.53	15.32	16.2	0.0
50	QPSK	270	0	15.48	15.52	15.40		
50	16QAM	1	1	14.14	14.16	14.05	16.2	0.0
50	16QAM	1	1	14.77	14.88	14.71	16.2	0.0
50	256QAM	1	1	13.28	13.31	13.20	16.2	0.0
Channel								
Frequency (MHz)				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2900	2935	2960		
40	PI2 BPSK	1	1	15.32	15.47	15.27	16.2	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2915	2935	2955		
30	PI2 BPSK	1	1	15.43	15.47	15.33	16.2	0.0
Channel								
Frequency (MHz)				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2912.5	2935	2957.5		
25	PI2 BPSK	1	1	15.38	15.57	15.28	16.2	0.0
Channel								
Frequency (MHz)				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2910	2935	2960		
20	PI2 BPSK	1	1	15.33	15.57	15.28	16.2	0.0
Channel								
Frequency (MHz)				500000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2907.5	2935	2962.5		
15	PI2 BPSK	1	1	15.42	15.55	15.30	16.2	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2915	2935	2965		
10	PI2 BPSK	1	1	15.41	15.48	15.27	16.2	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2922.5	2935	2977.5		
5	PI2 BPSK	1	1	15.32	15.45	15.34	16.2	0.0

### n7\_Ant 5 DSI 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								
Frequency (MHz)				505000	507000	509000		
Frequency (MHz)				2905	2935	2965		
50	PI2 BPSK	1	1	12.90	13.01	12.95		
50	PI2 BPSK	1	135	12.85	12.92	12.89	14.0	0.0
50	PI2 BPSK	1	268	12.89	12.91	12.90		
50	PI2 BPSK	135	0	12.90	12.88	12.85	14.0	0.0
50	PI2 BPSK	135	68	12.85	12.98	12.90	14.0	0.0
50	PI2 BPSK	135	135	12.84	12.96	12.87	14.0	0.0
50	PI2 BPSK	270	0	12.82	12.86	12.83		
50	QPSK	1	1	12.84	12.92	12.74		
50	QPSK	1	135	12.48	12.67	12.66	14.0	0.0
50	QPSK	1	268	12.63	12.79	12.79		
50	QPSK	135	0	12.61	12.78	12.76	14.0	0.0
50	QPSK	135	68	12.76	12.92	12.83	14.0	0.0
50	QPSK	135	135	12.85	12.99	12.93	14.0	0.0
50	QPSK	270	0	12.78	12.94	12.85		
50	16QAM	1	1	12.63	12.77	12.72	14.0	0.0
50	16QAM	1	1	12.32	12.46	12.45	14.0	0.0
50	256QAM	1	1	12.72	12.92	12.91	14.0	0.0
Channel								
Frequency (MHz)				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2900	2935	2960		
40	PI2 BPSK	1	1	12.75	12.93	12.87	14.0	0.0
Channel								
Frequency (MHz)				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2915	2935	2955		
30	PI2 BPSK	1	1	12.85	12.93	12.84	14.0	0.0
Channel								
Frequency (MHz)				502000	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2912.5	2935	2957.5		
25	PI2 BPSK	1	1	12.77	12.86	12.86	14.0	0.0
Channel								
Frequency (MHz)				501000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2910	2935	2960		
20	PI2 BPSK	1	1	12.84	12.89	12.90	14.0	0.0
Channel								
Frequency (MHz)				500000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2907.5	2935	2962.5		
15	PI2 BPSK	1	1	12.93	12.89	12.90	14.0	0.0
Channel								
Frequency (MHz)				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2915	2935	2965		
10	PI2 BPSK	1	1	12.80	12.96	12.89	14.0	0.0
Channel								
Frequency (MHz)				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2922.5	2935	2977.5		
5	PI2 BPSK	1	1	12.76	12.94	12.95	14.0	0.0



For DFT-30

n38_Ant 0 DSI 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									
Frequency (MHz)									
40	P12 BPSK	1	1	22.83	22.89	22.80			
40	P12 BPSK	1	53	22.73	22.68	22.56	24.0	0.0	
40	P12 BPSK	1	104	22.47	22.34	22.23			
40	P12 BPSK	50	0	21.87	22.02	21.92	23.5	0.5	
40	P12 BPSK	50	26	22.36	22.76	22.34	24.0	0.0	
40	P12 BPSK	50	56	22.01	22.15	22.09	23.5	0.5	
40	P12 BPSK	100	0	22.16	22.25	22.12			
40	QPSK	1	1	22.69	22.74	22.59			
40	QPSK	1	53	22.37	22.56	22.35	24.0	0.0	
40	QPSK	1	104	22.24	22.59	22.26			
40	QPSK	50	0	22.38	22.65	22.39			
40	QPSK	50	26	22.31	22.53	22.29	24.0	0.0	
40	QPSK	50	56	22.17	22.51	22.11			
40	QPSK	100	0	21.52	21.96	21.53	23.0	1.0	
40	16QAM	1	1	21.24	21.54	21.16	23.0	1.0	
40	64QAM	1	1	20.05	20.12	20.06	21.5	2.5	
40	256QAM	1	1	18.41	18.48	18.43	19.5	4.5	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	22.53	22.69	22.58	24.0	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	21.80	21.91	21.76	24.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	22.55	22.74	22.61	24.0	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	22.86	22.61	22.56	24.0	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	22.61	22.65	22.61	24.0	0.0	

n38_Ant 2 DSI 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									
Frequency (MHz)									
40	P12 BPSK	1	1	24.94	24.98	24.96			
40	P12 BPSK	1	53	24.82	24.83	24.74	25.5	0.0	
40	P12 BPSK	1	104	24.86	24.92	24.82			
40	P12 BPSK	50	0	24.07	24.22	24.12	25.0	0.5	
40	P12 BPSK	50	26	24.54	24.68	24.55	25.5	0.0	
40	P12 BPSK	50	56	23.96	24.07	23.93	25.0	0.5	
40	P12 BPSK	100	0	24.04	24.16	24.09			
40	QPSK	1	1	24.89	24.97	24.91			
40	QPSK	1	53	24.69	24.76	24.67	25.5	0.0	
40	QPSK	1	104	24.65	24.77	24.61			
40	QPSK	50	0	24.37	24.51	24.41			
40	QPSK	50	26	24.36	24.48	24.39	25.5	0.0	
40	QPSK	50	56	24.33	24.38	24.24			
40	QPSK	100	0	23.87	23.94	23.78	24.5	1.0	
40	16QAM	1	1	23.57	23.63	23.49	24.5	1.0	
40	64QAM	1	1	22.03	22.12	21.98	23.0	2.5	
40	256QAM	1	1	20.67	20.82	20.72	21.0	4.5	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	24.71	24.82	24.70	25.5	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	24.01	24.16	24.08	25.5	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	24.72	24.80	24.72	25.5	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	24.71	24.73	24.75	25.5	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	24.74	24.73	24.68	25.5	0.0	

n38_Ant 3 DSI 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									
Frequency (MHz)									
40	P12 BPSK	1	1	16.54	16.65	16.57			
40	P12 BPSK	1	53	16.52	16.61	16.53	16.7	0.0	
40	P12 BPSK	1	104	16.50	16.63	16.50			
40	P12 BPSK	50	0	16.42	16.48	16.47	16.7	0.0	
40	P12 BPSK	50	26	16.54	16.60	16.57	16.7	0.0	
40	P12 BPSK	50	56	16.45	16.49	16.47	16.7	0.0	
40	P12 BPSK	100	0	16.46	16.49	16.47			
40	QPSK	1	1	16.41	16.53	16.44			
40	QPSK	1	53	16.39	16.55	16.53	16.7	0.0	
40	QPSK	1	104	16.32	16.52	16.50			
40	QPSK	50	0	16.36	16.46	16.37			
40	QPSK	50	26	16.37	16.50	16.52	16.7	0.0	
40	QPSK	50	56	16.33	16.45	16.38			
40	QPSK	100	0	16.24	16.44	16.36	16.7	0.0	
40	16QAM	1	1	16.16	16.31	16.25	16.7	0.0	
40	64QAM	1	1	16.17	16.35	16.27	16.7	0.0	
40	256QAM	1	1	16.26	16.39	16.35	16.7	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	16.42	16.54	16.48	16.7	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	16.42	16.49	16.47	16.7	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	16.43	16.53	16.52	16.7	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	16.45	16.55	16.50	16.7	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	16.40	16.52	16.46	16.7	0.0	



n38_Ant 5 DSI 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									
Frequency (MHz)									
40	P12 BPSK	1	1	12.85	13.06	12.92			
40	P12 BPSK	1	53	12.78	12.90	12.82	14.0	0.0	
40	P12 BPSK	1	104	12.76	12.85	12.79			
40	P12 BPSK	50	0	12.78	12.83	12.81	14.0	0.0	
40	P12 BPSK	50	26	12.79	12.85	12.82	14.0	0.0	
40	P12 BPSK	50	56	12.89	12.74	12.71			
40	P12 BPSK	100	0	12.74	12.77	12.75	14.0	0.0	
40	QPSK	1	1	12.73	12.81	12.87			
40	QPSK	1	53	12.77	12.88	12.78	14.0	0.0	
40	QPSK	1	104	12.83	12.85	12.80			
40	QPSK	50	0	12.87	12.78	12.85	14.0	0.0	
40	QPSK	50	26	12.83	12.77	12.84	14.0	0.0	
40	QPSK	50	56	12.64	12.72	12.59			
40	QPSK	100	0	12.70	12.77	12.71	14.0	0.0	
40	16QAM	1	1	12.58	12.73	12.63	14.0	0.0	
40	64QAM	1	1	12.32	12.44	12.28	14.0	0.0	
40	256QAM	1	1	12.81	12.92	12.77	14.0	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	12.73	13.00	12.77	14.0	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	12.74	12.97	12.79	14.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	12.83	12.94	12.83	14.0	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	12.79	12.94	12.79	14.0	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	12.74	12.92	12.87	14.0	0.0	

Part27Q n78_Ant 4 DSI 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									
Frequency (MHz)									
100	P12 BPSK	1	1		13.48				
100	P12 BPSK	1	137		13.33		14.0	0.0	
100	P12 BPSK	1	271		13.16				
100	P12 BPSK	135	0		13.44		14.0	0.0	
100	P12 BPSK	135	69		13.46		14.0	0.0	
100	P12 BPSK	135	138		13.24		14.0	0.0	
100	P12 BPSK	270	0		13.39		14.0	0.0	
100	QPSK	1	1		13.11				
100	QPSK	1	137		13.06		14.0	0.0	
100	QPSK	1	271		13.14				
100	QPSK	135	0		13.42		14.0	0.0	
100	QPSK	135	69		13.37		14.0	0.0	
100	QPSK	135	138		13.22		14.0	0.0	
100	QPSK	270	0		13.32		14.0	0.0	
100	16QAM	1	1		13.09		14.0	0.0	
100	64QAM	1	1		13.13		14.0	0.0	
100	256QAM	1	1		13.45		14.0	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	13.40	13.42	13.35	14.0	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	13.34	13.28	13.20	14.0	0.0	
Channel									
Frequency (MHz)									
70	P12 BPSK	1	1	13.25	13.24	13.22	14.0	0.0	
Channel									
Frequency (MHz)									
60	P12 BPSK	1	1	13.25	13.35	13.22	14.0	0.0	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	13.26	13.27	13.23	14.0	0.0	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	13.32	13.28	13.28	14.0	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	13.34	13.30	13.24	14.0	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	13.32	13.35	13.23	14.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	13.27	13.31	13.21	14.0	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	13.30	13.35	13.21	14.0	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	13.29	13.31	13.20	14.0	0.0	

Part270 n78_Ant 4 DSI 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									
Frequency (MHz)									
100	P12 BPSK	1	1		13.18				
100	P12 BPSK	1	137		13.11		14.0	0.0	
100	P12 BPSK	1	271		13.04				
100	P12 BPSK	135	0		13.13		14.0	0.0	
100	P12 BPSK	135	69		13.14		14.0	0.0	
100	P12 BPSK	135	138		13.11		14.0	0.0	
100	P12 BPSK	270	0		13.12		14.0	0.0	
100	QPSK	1	1		12.95				
100	QPSK	1	137		13.13		14.0	0.0	
100	QPSK	1	271		13.03				
100	QPSK	135	0		13.14		14.0	0.0	
100	QPSK	135	69		13.15		14.0	0.0	
100	QPSK	135	138		13.09		14.0	0.0	
100	QPSK	270	0		13.13		14.0	0.0	
100	16QAM	1	1		12.80		14.0	0.0	
100	64QAM	1	1		12.78		14.0	0.0	
100	256QAM	1	1		12.85		14.0	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	13.10	13.12	13.05	14.0	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	13.04	12.96	12.95	14.0	0.0	
Channel									
Frequency (MHz)									
70	P12 BPSK	1	1	12.95	12.97	12.89	14.0	0.0	
Channel									
Frequency (MHz)									
60	P12 BPSK	1	1	12.95	13.07	12.91	14.0	0.0	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	13.05	13.07	12.97	14.0	0.0	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	13.03	12.98	12.98	14.0	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	12.99	13.02	12.92	14.0	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	12.99	13.01	12.90	14.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	12.94	12.97	12.87	14.0	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	12.97	12.99	12.87	14.0	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	12.98	13.00	12.93	14.0	0.0	



**Part27Q n78\_Ant 6 DSI 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								
Frequency (MHz)								
100	P12 BPSK	1	1	14.06				
100	P12 BPSK	1	137	13.95			15.0	0.0
100	P12 BPSK	1	211	13.85				
100	P12 BPSK	135	0	13.83			15.0	0.0
100	P12 BPSK	135	69	14.06			15.0	0.0
100	P12 BPSK	135	138	13.82			15.0	0.0
100	P12 BPSK	270	0	14.02				
100	QPSK	1	1	13.91				
100	QPSK	1	137	13.93			15.0	0.0
100	QPSK	1	211	13.76				
100	QPSK	135	0	14.02				
100	QPSK	135	69	13.96			15.0	0.0
100	QPSK	135	138	13.84				
100	QPSK	270	0	13.96			15.0	0.0
100	16QAM	1	1	13.75			15.0	0.0
100	64QAM	1	1	13.74			15.0	0.0
100	256QAM	1	1	13.82			15.0	0.0
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	13.95	63334	63596		MPR
				3495	3500.01	3504.99		
80	P12 BPSK	1	1	13.86	63334	63400		MPR
				3485.01	3500.01	3514.98		
80	P12 BPSK	1	1	13.80	63334	63466		MPR
				3485.01	3500.01	3514.98		
70	P12 BPSK	1	1	13.89	63334	63466		MPR
				3485.01	3500.01	3514.98		
60	P12 BPSK	1	1	13.80	63334	63500		MPR
				3475.02	3500.01	3505		
50	P12 BPSK	1	1	13.83	63334	63532		MPR
				3475.02	3500.01	3505		
40	P12 BPSK	1	1	13.87	63334	63596		MPR
				3465.01	3500.01	3514.98		
30	P12 BPSK	1	1	13.79	63334	63600		MPR
				3460.02	3500.01	3540		
20	P12 BPSK	1	1	13.88	63334	63632		MPR
				3452.51	3500.01	3537.48		
15	P12 BPSK	1	1	13.87	63334	63666		MPR
				3457.5	3500.01	3542.49		
10	P12 BPSK	1	1	13.80	63334	63632		MPR
				3455.01	3500.01	3544.98		

**Part27Q n78\_Ant 6 DSI 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								
Frequency (MHz)								
100	P12 BPSK	1	1	13.96	63000	63050		
100	P12 BPSK	1	137	13.88	63000	63066	15.0	0.0
100	P12 BPSK	1	211	13.76	63000	63099		
100	P12 BPSK	135	0	13.93	63000	63100	15.0	0.0
100	P12 BPSK	135	69	13.94	63000	63150	15.0	0.0
100	P12 BPSK	135	138	13.87	63000	63200	15.0	0.0
100	P12 BPSK	270	0	13.92	63000	63250		
100	QPSK	1	1	13.79	63000	63250		
100	QPSK	1	137	13.86	63000	63300	15.0	0.0
100	QPSK	1	211	13.76	63000	63350		
100	QPSK	135	0	13.91	63000	63400		
100	QPSK	135	69	13.85	63000	63450	15.0	0.0
100	QPSK	135	138	13.87	63000	63500		
100	QPSK	270	0	13.92	63000	63550	15.0	0.0
100	16QAM	1	1	13.84	63000	63600	15.0	0.0
100	64QAM	1	1	13.86	63000	63650	15.0	0.0
100	256QAM	1	1	13.70	63000	63700	15.0	0.0
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	13.88	63000	63050		MPR
				3745.02	3750	3754.98		
80	P12 BPSK	1	1	13.83	63000	63066		MPR
				3745.02	3750	3754.98		
80	P12 BPSK	1	1	13.83	63000	63100		MPR
				3745.02	3750	3759.98		
70	P12 BPSK	1	1	13.79	63000	63150		MPR
				3745.02	3750	3769.98		
60	P12 BPSK	1	1	13.79	63000	63200		MPR
				3745.02	3750	3774.98		
50	P12 BPSK	1	1	13.78	63000	63250		MPR
				3745.02	3750	3779.98		
40	P12 BPSK	1	1	13.80	63000	63300		MPR
				3745.02	3750	3784.98		
30	P12 BPSK	1	1	13.79	63000	63350		MPR
				3745.02	3750	3789.98		
20	P12 BPSK	1	1	13.79	63000	63400		MPR
				3745.02	3750	3794.98		
15	P12 BPSK	1	1	13.78	63000	63450		MPR
				3745.02	3750	3799.98		
10	P12 BPSK	1	1	13.81	63000	63500		MPR
				3745.02	3750	3804.98		

**Part27Q n78\_Ant 7 DSI 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								
Frequency (MHz)								
100	P12 BPSK	1	1	13.17	63000	63000		
100	P12 BPSK	1	137	13.26	63000	63066	14.0	0.0
100	P12 BPSK	1	211	12.92	63000	63132		
100	P12 BPSK	135	0	13.08	63000	63198	14.0	0.0
100	P12 BPSK	135	69	13.12	63000	63264	14.0	0.0
100	P12 BPSK	135	138	12.84	63000	63330	14.0	0.0
100	P12 BPSK	270	0	13.07	63000	63396		
100	QPSK	1	1	13.12	63000	63402		
100	QPSK	1	137	13.02	63000	63468	14.0	0.0
100	QPSK	1	211	12.76	63000	63534		
100	QPSK	135	0	13.14	63000	63600		
100	QPSK	135	69	13.02	63000	63666	14.0	0.0
100	QPSK	135	138	12.93	63000	63732		
100	QPSK	270	0	13.04	63000	63798	14.0	0.0
100	16QAM	1	1	12.85	63000	63864	14.0	0.0
100	64QAM	1	1	12.82	63000	63930	14.0	0.0
100	256QAM	1	1	12.90	63000	64000	14.0	0.0
Channel								
Frequency (MHz)								
90	P12 BPSK	1	1	13.02	63000	63000		MPR
				3495	3500.01	3504.99		
80	P12 BPSK	1	1	13.02	63000	63066		MPR
				3485.01	3500.01	3514.98		
80	P12 BPSK	1	1	12.93	63000	63132		MPR
				3485.01	3500.01	3514.98		
70	P12 BPSK	1	1	12.96	63000	63198		MPR
				3485.01	3500.01	3514.98		
60	P12 BPSK	1	1	12.95	63000	63264		MPR
				3485.01	3500.01	3514.98		
50	P12 BPSK	1	1	12.95	63000	63330		MPR
				3475.02	3500.01	3526		
40	P12 BPSK	1	1	12.88	63000	63396		MPR
				3475.02	3500.01	3526		
30	P12 BPSK	1	1	12.86	63000	63462		MPR
				3475.02	3500.01	3526		
20	P12 BPSK	1	1	12.84	63000	63528		MPR
				3465.01	3500.01	3537.48		
15	P12 BPSK	1	1	12.97	63000	63594		MPR
				3460.02	3500.01	3542.49		
10	P12 BPSK	1	1	12.92	63000	63660		MPR
				3460.02	3500.01	3542.49		



**Part270 n78\_Ant 7 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	12.97			14.0	0.0
100	PI2 BPSK	1	137	12.92				
100	PI2 BPSK	1	211	12.82			14.0	0.0
100	PI2 BPSK	135	0	12.92			14.0	0.0
100	PI2 BPSK	135	69	12.95			14.0	0.0
100	PI2 BPSK	135	138	12.91			14.0	0.0
100	PI2 BPSK	210	0	12.92				
100	QPSK	1	1	12.82			14.0	0.0
100	QPSK	1	137	12.92				
100	QPSK	1	211	12.78			14.0	0.0
100	QPSK	135	0	12.96			14.0	0.0
100	QPSK	135	69	12.92				
100	QPSK	135	138	12.92			14.0	0.0
100	QPSK	210	0	12.83			14.0	0.0
100	16QAM	1	1	12.92			14.0	0.0
100	64QAM	1	1	12.81			14.0	0.0
100	256QAM	1	1	12.58			14.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	12.88	12.92	12.82	14.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	12.82	12.85	12.71	14.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	12.59	12.84	12.75	14.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	12.76	12.85	12.71	14.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	12.79	12.85	12.74	14.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	12.74	12.83	12.66	14.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	12.75	12.79	12.72	14.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	12.59	12.78	12.70	14.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	12.81	12.83	12.73	14.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	12.81	12.76	12.72	14.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	12.80	12.79	12.75	14.0	0.0

**Part27Q n78\_Ant 8 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.29			23.5	0.0
100	PI2 BPSK	1	137	22.04				
100	PI2 BPSK	1	211	22.28			23.5	0.0
100	PI2 BPSK	135	0	21.71			23.5	0.0
100	PI2 BPSK	135	69	22.04			23.5	0.0
100	PI2 BPSK	135	138	21.85			23.5	0.0
100	PI2 BPSK	210	0	21.86				
100	QPSK	1	1	22.25			23.5	0.0
100	QPSK	1	137	22.06				
100	QPSK	1	211	22.20			23.5	0.0
100	QPSK	135	0	22.17			23.5	0.0
100	QPSK	135	69	22.01				
100	QPSK	135	138	22.14			23.5	0.0
100	QPSK	210	0	21.13			23.5	0.0
100	16QAM	1	1	21.02			23.5	0.0
100	64QAM	1	1	19.60			23.5	0.0
100	256QAM	1	1	18.16			22.5	1.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	22.22	22.24	22.23	23.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	22.09	22.14	21.93	23.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	22.15	22.14	22.11	23.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	22.09	22.08	22.08	23.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	22.13	22.14	22.13	23.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	22.11	22.10	22.08	23.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	22.10	22.16	22.16	23.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	22.11	22.11	22.10	23.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	22.16	22.13	22.15	23.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	22.06	22.17	22.13	23.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	22.16	22.09	22.10	23.5	0.0

**Part270 n78\_Ant 8 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	22.19			23.5	0.0
100	PI2 BPSK	1	137	21.93				
100	PI2 BPSK	1	211	22.15			23.5	0.0
100	PI2 BPSK	135	0	21.98			23.5	0.0
100	PI2 BPSK	135	69	22.03			23.5	0.0
100	PI2 BPSK	135	138	21.84			23.5	0.0
100	PI2 BPSK	210	0	21.81				
100	QPSK	1	1	21.99			23.5	0.0
100	QPSK	1	137	21.96				
100	QPSK	1	211	22.14			23.5	0.0
100	QPSK	135	0	22.13			23.5	0.0
100	QPSK	135	69	22.05				
100	QPSK	135	138	22.00			23.5	0.0
100	QPSK	210	0	21.03			23.5	0.0
100	16QAM	1	1	20.93			23.5	0.0
100	64QAM	1	1	19.41			23.5	0.0
100	256QAM	1	1	17.99			22.5	1.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	22.03	22.04	22.03	23.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	21.94	21.98	21.97	23.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	21.94	21.97	21.94	23.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	21.97	21.99	22.02	23.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	21.89	21.93	22.01	23.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	21.90	21.92	21.99	23.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	21.89	21.89	21.88	23.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	21.90	21.90	21.89	23.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	21.87	21.96	22.04	23.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	21.84	21.84	22.00	23.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	21.95	21.93	22.00	23.5	0.0



For DFT-15

n5_Ant 0 DSI 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									
Frequency (MHz)									
				834	836.5	838			
20	P12 BPSK	1	1	24.73	24.76	24.74			
20	P12 BPSK	1	53	24.72	24.75	24.73	25.2	0.0	
20	P12 BPSK	1	104	24.67	24.67	24.62			
20	P12 BPSK	50	0	23.95	24.07	23.98	25.2	0.0	
20	P12 BPSK	50	26	24.45	24.58	24.53	25.2	0.0	
20	P12 BPSK	50	56	23.93	24.01	23.86	25.2	0.0	
20	P12 BPSK	100	0	23.92	24.07	23.95			
20	QPSK	1	1	24.53	24.58	24.50			
20	QPSK	1	53	24.43	24.53	24.42	25.2	0.0	
20	QPSK	1	104	24.38	24.51	24.40			
20	QPSK	50	0	23.48	23.66	23.51	24.7	0.5	
20	QPSK	50	26	24.44	24.58	24.49	25.2	0.0	
20	QPSK	50	56	23.89	24.04	23.95	24.7	0.5	
20	QPSK	100	0	24.02	24.07	23.98	24.7	0.5	
20	16QAM	1	1	23.81	23.97	23.86	24.7	0.5	
20	64QAM	1	1	22.43	22.55	22.39	23.2	2.0	
20	256QAM	1	1	20.93	21.03	20.92	21.2	4.0	
Channel									
Frequency (MHz)									
				163.30	167.30	169.90			
15	P12 BPSK	1	1	24.52	24.57	24.49	25.2	0.0	
Channel									
Frequency (MHz)									
				165.00	167.30	169.90			
10	P12 BPSK	1	1	24.50	24.60	24.44	25.2	0.0	
Channel									
Frequency (MHz)									
				166.5	168.5	169.5			
5	P12 BPSK	1	1	24.52	24.50	24.45	25.2	0.0	

n5_Ant 1 DSI 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									
Frequency (MHz)									
				834	836.5	838			
20	P12 BPSK	1	1	21.04	21.12	21.05			
20	P12 BPSK	1	53	21.02	21.09	21.01	21.7	0.0	
20	P12 BPSK	1	104	20.93	20.98	20.85			
20	P12 BPSK	50	0	20.83	20.90	20.85	21.7	0.0	
20	P12 BPSK	50	26	20.91	20.96	20.93	21.7	0.0	
20	P12 BPSK	50	56	20.81	20.84	20.82	21.7	0.0	
20	P12 BPSK	100	0	20.82	20.85	20.83			
20	QPSK	1	1	20.91	20.97	20.93			
20	QPSK	1	53	20.86	21.04	21.04	21.7	0.0	
20	QPSK	1	104	20.82	20.92	20.85			
20	QPSK	50	0	20.76	20.84	20.74	21.7	0.0	
20	QPSK	50	26	20.77	20.93	20.91	21.7	0.0	
20	QPSK	50	56	20.69	20.82	20.80	21.7	0.0	
20	QPSK	100	0	20.67	20.81	20.71			
20	16QAM	1	1	20.40	20.64	20.59	21.7	0.0	
20	64QAM	1	1	21.11	21.08	21.09	21.7	0.0	
20	256QAM	1	1	19.61	19.73	19.66	20.2	1.5	
Channel									
Frequency (MHz)									
				163.30	167.30	169.90			
15	P12 BPSK	1	1	20.90	21.07	20.92	21.7	0.0	
Channel									
Frequency (MHz)									
				165.00	167.30	169.90			
10	P12 BPSK	1	1	20.94	21.00	20.97	21.7	0.0	
Channel									
Frequency (MHz)									
				166.5	168.5	169.5			
5	P12 BPSK	1	1	20.93	21.03	21.00	21.7	0.0	

n7_Ant 0 DSI 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									
Frequency (MHz)									
				2554	2555	2556			
50	P12 BPSK	1	1	21.38	21.41	21.38			
50	P12 BPSK	1	135	21.26	21.28	21.21	23.0	0.0	
50	P12 BPSK	1	268	21.35	21.24	21.21			
50	P12 BPSK	135	0	20.78	20.83	20.87	23.0	0.0	
50	P12 BPSK	135	66	21.36	21.38	21.21	23.0	0.0	
50	P12 BPSK	135	135	20.44	20.53	20.42	23.0	0.0	
50	P12 BPSK	270	0	20.74	20.75	20.68			
50	QPSK	1	1	21.37	21.40	21.35			
50	QPSK	1	135	21.28	21.34	21.23	23.0	0.0	
50	QPSK	1	268	21.04	21.11	20.95			
50	QPSK	135	0	20.06	20.21	20.15	23.0	0.0	
50	QPSK	135	66	21.13	21.21	21.12	23.0	0.0	
50	QPSK	135	135	20.83	20.93	20.79	23.0	0.0	
50	QPSK	270	0	21.02	21.13	21.06			
50	16QAM	1	1	21.21	21.26	21.15	23.0	0.0	
50	64QAM	1	1	19.68	19.78	19.71	21.5	1.5	
50	256QAM	1	1	18.60	18.69	18.56	19.5	3.5	
Channel									
Frequency (MHz)									
				50000	50700	51000			
40	P12 BPSK	1	1	21.31	21.32	21.27	23.0	0.0	
Channel									
Frequency (MHz)									
				50300	50700	51100			
30	P12 BPSK	1	1	21.36	21.31	21.31	23.0	0.0	
Channel									
Frequency (MHz)									
				50200	50700	51100			
25	P12 BPSK	1	1	21.37	21.40	21.30	23.0	0.0	
Channel									
Frequency (MHz)									
				50200	50700	51200			
20	P12 BPSK	1	1	21.37	21.40	21.30	23.0	0.0	
Channel									
Frequency (MHz)									
				2570	2535	2560			
15	P12 BPSK	1	1	20.96	21.11	20.97	23.0	0.0	
Channel									
Frequency (MHz)									
				50700	50700	51300			
10	P12 BPSK	1	1	21.00	21.19	21.02	23.0	0.0	
Channel									
Frequency (MHz)									
				50000	50700	51300			
5	P12 BPSK	1	1	20.96	21.03	20.97	23.0	0.0	



n7_Ant 2 DSI 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										
Frequency (MHz)										
50	PI2 BPSK	1	1	19.80	19.89	19.82				
50	PI2 BPSK	1	135	19.71	19.84	19.76	20.5	0.0		
50	PI2 BPSK	1	268	19.62	19.71	19.68				
50	PI2 BPSK	135	0	19.70	19.80	19.82	20.5	0.0		
50	PI2 BPSK	135	68	19.78	19.88	19.86	20.5	0.0		
50	PI2 BPSK	135	135	19.69	19.84	19.81	20.5	0.0		
50	PI2 BPSK	270	0	19.67	19.80	19.76				
50	QPSK	1	1	19.53	19.73	19.64				
50	QPSK	1	135	19.68	19.77	19.69	20.5	0.0		
50	QPSK	1	268	19.40	19.61	19.57				
50	QPSK	135	0	19.69	19.81	19.77	20.5	0.0		
50	QPSK	135	68	19.58	19.74	19.65	20.5	0.0		
50	QPSK	135	135	19.67	19.86	19.85	20.5	0.0		
50	QPSK	270	0	19.63	19.78	19.71				
50	16QAM	1	1	19.30	19.46	19.43	20.5	0.0		
50	64QAM	1	1	19.43	19.53	19.42	20.5	0.0		
50	256QAM	1	1	19.88	19.12	19.08	20.5	0.0		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	19.64	19.74	19.68	20.5	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	19.75	19.75	19.76	20.5	0.0		
Channel										
Frequency (MHz)										
25	PI2 BPSK	1	1	19.63	19.76	19.71	20.5	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	19.74	19.83	19.74	20.5	0.0		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	19.74	19.79	19.70	20.5	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	19.73	19.81	19.77	20.5	0.0		
Channel										
Frequency (MHz)										
5	PI2 BPSK	1	1	19.73	19.77	19.69	20.5	0.0		

n7_Ant 3 DSI 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										
Frequency (MHz)										
50	PI2 BPSK	1	1	20.13	20.20	20.05				
50	PI2 BPSK	1	135	20.04	20.14	20.02	21.2	0.0		
50	PI2 BPSK	1	268	20.08	20.13	20.04				
50	PI2 BPSK	135	0	20.06	20.11	20.01	21.2	0.0		
50	PI2 BPSK	135	68	20.09	20.12	20.03	21.2	0.0		
50	PI2 BPSK	135	135	19.96	20.01	19.92	21.2	0.0		
50	PI2 BPSK	270	0	20.03	20.15	20.01				
50	QPSK	1	1	19.82	19.92	19.75				
50	QPSK	1	135	19.97	20.04	19.93	21.2	0.0		
50	QPSK	1	268	20.04	20.06	19.92				
50	QPSK	135	0	20.06	20.06	19.91	21.2	0.0		
50	QPSK	135	68	19.97	19.97	19.79	21.2	0.0		
50	QPSK	135	135	20.10	20.16	20.04	21.2	0.0		
50	QPSK	270	0	20.07	20.09	19.97				
50	16QAM	1	1	20.00	20.02	19.98	21.2	0.0		
50	64QAM	1	1	19.99	20.00	19.98	21.2	0.0		
50	256QAM	1	1	20.01	20.03	20.00	21.2	0.0		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	20.03	20.05	19.92	21.2	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	20.03	20.13	19.98	21.2	0.0		
Channel										
Frequency (MHz)										
25	PI2 BPSK	1	1	20.06	20.08	19.93	21.2	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	20.08	20.10	19.99	21.2	0.0		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	20.03	20.10	19.91	21.2	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	19.98	20.10	19.91	21.2	0.0		
Channel										
Frequency (MHz)										
5	PI2 BPSK	1	1	20.03	20.13	19.98	21.2	0.0		

n7_Ant 5 DSI 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										
Frequency (MHz)										
50	PI2 BPSK	1	1	18.13	18.20	18.16				
50	PI2 BPSK	1	135	18.07	18.14	18.12	19.5	0.0		
50	PI2 BPSK	1	268	18.11	18.16	18.15				
50	PI2 BPSK	135	0	17.95	18.02	18.01	19.5	0.0		
50	PI2 BPSK	135	68	17.98	18.03	18.02	19.5	0.0		
50	PI2 BPSK	135	135	17.81	17.84	17.83	19.5	0.0		
50	PI2 BPSK	270	0	17.97	18.00	17.98				
50	QPSK	1	1	17.87	17.99	17.97				
50	QPSK	1	135	18.03	18.18	18.10	19.5	0.0		
50	QPSK	1	268	17.95	18.12	18.06				
50	QPSK	135	0	17.81	18.02	17.84	19.5	0.0		
50	QPSK	135	68	17.90	18.05	18.00	19.5	0.0		
50	QPSK	135	135	17.84	18.15	18.13	19.5	0.0		
50	QPSK	270	0	18.01	18.11	18.07				
50	16QAM	1	1	17.71	17.89	17.84	19.5	0.0		
50	64QAM	1	1	17.58	17.71	17.60	19.5	0.0		
50	256QAM	1	1	17.52	17.68	17.60	19.5	0.0		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	17.93	18.08	18.03	19.5	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	17.94	18.11	18.03	19.5	0.0		
Channel										
Frequency (MHz)										
25	PI2 BPSK	1	1	17.99	18.06	18.01	19.5	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	17.84	18.13	18.04	19.5	0.0		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	17.92	18.11	18.01	19.5	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	17.91	18.14	17.88	19.5	0.0		
Channel										
Frequency (MHz)										
5	PI2 BPSK	1	1	17.91	18.05	18.02	19.5	0.0		



For DFT-30

n38_Ant 0 DSI 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									
Frequency (MHz)									
40	P12 BPSK	1	1	20.75	20.76	20.74			
40	P12 BPSK	1	53	20.72	20.73	20.68	22.0	0.0	
40	P12 BPSK	1	104	20.54	20.56	20.52			
40	P12 BPSK	50	0	20.62	20.66	20.57	22.0	0.0	
40	P12 BPSK	50	26	20.63	20.70	20.59	22.0	0.0	
40	P12 BPSK	50	56	20.52	20.53	20.47	22.0	0.0	
40	P12 BPSK	100	0	20.56	20.61	20.52			
40	QPSK	1	1	20.62	20.72	20.53			
40	QPSK	1	53	20.54	20.58	20.37	22.0	0.0	
40	QPSK	1	104	20.44	20.52	20.40			
40	QPSK	50	0	20.51	20.56	20.44			
40	QPSK	50	26	20.59	20.61	20.40	22.0	0.0	
40	QPSK	50	56	20.46	20.48	20.27			
40	QPSK	100	0	20.54	20.56	20.38	22.0	0.0	
40	16QAM	1	1	20.41	20.47	20.33	22.0	0.0	
40	64QAM	1	1	19.97	20.06	19.85	21.5	0.5	
40	256QAM	1	1	18.84	18.76	18.54	19.5	2.5	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	20.59	20.62	20.65	22.0	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	20.66	20.66	20.59	22.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	20.60	20.60	20.62	22.0	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	20.66	20.63	20.62	22.0	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	20.60	20.70	20.68	22.0	0.0	

n38_Ant 2 DSI 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									
Frequency (MHz)									
40	P12 BPSK	1	1	19.90	19.92	19.91			
40	P12 BPSK	1	53	19.85	19.87	19.84	20.5	0.0	
40	P12 BPSK	1	104	19.70	19.75	19.72			
40	P12 BPSK	50	0	19.68	19.72	19.71	20.5	0.0	
40	P12 BPSK	50	26	19.70	19.70	19.73	20.5	0.0	
40	P12 BPSK	50	56	19.60	19.69	19.63	20.5	0.0	
40	P12 BPSK	100	0	19.67	19.73	19.72			
40	QPSK	1	1	19.73	19.88	19.78			
40	QPSK	1	53	19.66	19.82	19.74	20.5	0.0	
40	QPSK	1	104	19.55	19.68	19.68			
40	QPSK	50	0	19.49	19.62	19.56			
40	QPSK	50	26	19.55	19.71	19.65	20.5	0.0	
40	QPSK	50	56	19.44	19.59	19.59			
40	QPSK	100	0	19.56	19.66	19.66	20.5	0.0	
40	16QAM	1	1	19.33	19.54	19.52	20.5	0.0	
40	64QAM	1	1	19.48	19.62	19.54	20.5	0.0	
40	256QAM	1	1	19.58	19.74	19.72	20.5	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	19.81	19.81	19.76	20.5	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	19.76	19.86	19.79	20.5	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	19.82	19.70	19.70	20.5	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	19.76	19.87	19.83	20.5	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	19.84	19.76	19.75	20.5	0.0	

n38_Ant 3 DSI 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									
Frequency (MHz)									
40	P12 BPSK	1	1	20.21	20.30	20.28			
40	P12 BPSK	1	53	20.18	20.26	20.21	20.7	0.0	
40	P12 BPSK	1	104	20.12	20.27	20.22			
40	P12 BPSK	50	0	20.17	20.21	20.18	20.7	0.0	
40	P12 BPSK	50	26	20.16	20.24	20.21	20.7	0.0	
40	P12 BPSK	50	56	20.10	20.15	20.14	20.7	0.0	
40	P12 BPSK	100	0	20.13	20.19	20.16			
40	QPSK	1	1	20.03	20.24	20.17			
40	QPSK	1	53	20.12	20.27	20.20	20.7	0.0	
40	QPSK	1	104	20.06	20.25	20.17			
40	QPSK	50	0	19.97	20.16	20.08			
40	QPSK	50	26	20.13	20.27	20.19	20.7	0.0	
40	QPSK	50	56	20.03	20.19	20.18			
40	QPSK	100	0	19.96	20.18	20.16	20.7	0.0	
40	16QAM	1	1	19.95	20.11	20.07	20.7	0.0	
40	64QAM	1	1	19.91	20.08	20.01	20.7	0.0	
40	256QAM	1	1	20.02	20.21	20.20	20.7	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	20.09	20.25	20.20	20.7	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	20.05	20.24	20.21	20.7	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	20.11	20.22	20.14	20.7	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	20.07	20.20	20.19	20.7	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	20.13	20.16	20.14	20.7	0.0	



n38_Ant 5 DSI 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									
Frequency (MHz)									
40	PI2 BPSK	1	1	18.58	18.68	18.67			
40	PI2 BPSK	1	53	18.48	18.56	18.52	19.5	0.0	
40	PI2 BPSK	1	104	18.45	18.51	18.49			
40	PI2 BPSK	50	0	18.32	18.48	18.35	19.5	0.0	
40	PI2 BPSK	50	28	18.56	18.62	18.56			
40	PI2 BPSK	50	56	18.42	18.49	18.45	19.5	0.0	
40	PI2 BPSK	100	0	18.51	18.54	18.53			
40	QPSK	1	1	18.35	18.53	18.48			
40	QPSK	1	53	18.40	18.56	18.56	19.5	0.0	
40	QPSK	1	104	18.42	18.53	18.42			
40	QPSK	50	0	18.30	18.45	18.38			
40	QPSK	50	28	18.41	18.53	18.48	19.5	0.0	
40	QPSK	50	56	18.29	18.48	18.46			
40	QPSK	100	0	18.40	18.52	18.43	19.5	0.0	
40	16QAM	1	1	18.32	18.47	18.43	19.5	0.0	
40	64QAM	1	1	18.13	18.28	18.21	19.5	0.0	
40	256QAM	1	1	18.11	18.25	18.16	19.5	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	18.51	18.58	18.52	19.5	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	18.50	18.55	18.51	19.5	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	18.52	18.51	18.53	19.5	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	18.50	18.54	18.62	19.5	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	18.48	18.53	18.57	19.5	0.0	

Part27Q n78_Ant 4 DSI 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									
Frequency (MHz)									
100	PI2 BPSK	1	1		17.49				
100	PI2 BPSK	1	137		17.28		18.0	0.0	
100	PI2 BPSK	1	271		17.13				
100	PI2 BPSK	135	0		17.32		18.0	0.0	
100	PI2 BPSK	135	69		17.33		18.0	0.0	
100	PI2 BPSK	135	138		17.26		18.0	0.0	
100	PI2 BPSK	270	0		17.39				
100	QPSK	1	1		17.43		18.0	0.0	
100	QPSK	1	137		17.36		18.0	0.0	
100	QPSK	1	271		17.24				
100	QPSK	135	0		17.43				
100	QPSK	135	69		17.38		18.0	0.0	
100	QPSK	135	138		17.18				
100	QPSK	270	0		17.34		18.0	0.0	
100	16QAM	1	1		17.15		18.0	0.0	
100	64QAM	1	1		17.22		18.0	0.0	
100	256QAM	1	1		17.08		18.0	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	17.30	17.32	17.28	18.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	17.21	17.22	17.15	18.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	17.10	17.11	17.13	18.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	17.18	17.24	17.13	18.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	17.16	17.18	17.18	18.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.25	17.17	17.18	18.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	17.17	17.21	17.15	18.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	17.22	17.21	17.18	18.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	17.20	17.20	17.15	18.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	17.24	17.19	17.12	18.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	17.14	17.24	17.17	18.0	0.0	

Part270 n78_Ant 4 DSI 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									
Frequency (MHz)									
100	PI2 BPSK	1	1		17.20				
100	PI2 BPSK	1	137		17.14		18.0	0.0	
100	PI2 BPSK	1	271		17.13				
100	PI2 BPSK	135	0		17.15		18.0	0.0	
100	PI2 BPSK	135	69		17.17		18.0	0.0	
100	PI2 BPSK	135	138		17.13		18.0	0.0	
100	PI2 BPSK	270	0		17.16				
100	QPSK	1	1		17.04		18.0	0.0	
100	QPSK	1	137		17.15		18.0	0.0	
100	QPSK	1	271		17.09				
100	QPSK	135	0		17.15				
100	QPSK	135	69		17.09		18.0	0.0	
100	QPSK	135	138		17.14				
100	QPSK	270	0		17.12		18.0	0.0	
100	16QAM	1	1		16.85		18.0	0.0	
100	64QAM	1	1		16.83		18.0	0.0	
100	256QAM	1	1		16.80		18.0	0.0	
Channel									
Frequency (MHz)									
90	PI2 BPSK	1	1	17.12	17.18	17.10	18.0	0.0	
Channel									
Frequency (MHz)									
80	PI2 BPSK	1	1	17.07	17.07	17.00	18.0	0.0	
Channel									
Frequency (MHz)									
70	PI2 BPSK	1	1	16.98	17.02	17.02	18.0	0.0	
Channel									
Frequency (MHz)									
60	PI2 BPSK	1	1	17.02	17.07	16.94	18.0	0.0	
Channel									
Frequency (MHz)									
50	PI2 BPSK	1	1	17.06	17.13	17.05	18.0	0.0	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	17.04	17.13	17.03	18.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	17.05	17.02	17.05	18.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	17.01	17.08	16.99	18.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	16.98	17.08	16.98	18.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	17.01	17.04	16.97	18.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	17.03	17.05	17.02	18.0	0.0	



**Part27Q n78\_Ant 6 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	14.06			15.0	0.0
100	PI2 BPSK	1	137	13.95				
100	PI2 BPSK	1	211	13.85				
100	PI2 BPSK	135	0	13.83			15.0	0.0
100	PI2 BPSK	135	69	14.06			15.0	0.0
100	PI2 BPSK	135	138	13.82			15.0	0.0
100	PI2 BPSK	270	0	14.02				
100	QPSK	1	1	13.91				
100	QPSK	1	137	13.93			15.0	0.0
100	QPSK	1	211	13.78				
100	QPSK	135	0	14.02				
100	QPSK	135	69	13.96			15.0	0.0
100	QPSK	135	138	13.84				
100	QPSK	270	0	13.96			15.0	0.0
100	16QAM	1	1	13.75			15.0	0.0
100	64QAM	1	1	13.74			15.0	0.0
100	256QAM	1	1	13.82			15.0	0.0
Channel								
Frequency (MHz)								
63300	63334	63368	Tune-up limit (dBm)	MPR (dB)				
3495	3500.01	3504.99						
90	PI2 BPSK	1	1	13.95			15.0	0.0
Channel								
Frequency (MHz)								
63098	63334	63400	Tune-up limit (dBm)	MPR (dB)				
3482.69	3500.01	3518						
80	PI2 BPSK	1	1	13.80			15.0	0.0
Channel								
Frequency (MHz)								
63034	63334	63432	Tune-up limit (dBm)	MPR (dB)				
3485.01	3500.01	3514.98						
70	PI2 BPSK	1	1	13.25			15.0	0.0
Channel								
Frequency (MHz)								
63000	63334	63466	Tune-up limit (dBm)	MPR (dB)				
3480	3500.01	3519.99						
60	PI2 BPSK	1	1	13.80			15.0	0.0
Channel								
Frequency (MHz)								
3475.02	3500.01	3525						
50	PI2 BPSK	1	1	13.83			15.0	0.0
Channel								
Frequency (MHz)								
63134	63334	63532	Tune-up limit (dBm)	MPR (dB)				
3470.01	3500.01	3529.98						
40	PI2 BPSK	1	1	13.87			15.0	0.0
Channel								
Frequency (MHz)								
63100	63334	63566	Tune-up limit (dBm)	MPR (dB)				
3465	3500.01	3534.99						
30	PI2 BPSK	1	1	13.70			15.0	0.0
Channel								
Frequency (MHz)								
63034	63334	63632	Tune-up limit (dBm)	MPR (dB)				
3462.51	3500.01	3537.48						
25	PI2 BPSK	1	1	13.87			15.0	0.0
Channel								
Frequency (MHz)								
63068	63334	63666	Tune-up limit (dBm)	MPR (dB)				
3460.02	3500.01	3540						
20	PI2 BPSK	1	1	13.88			15.0	0.0
Channel								
Frequency (MHz)								
63050	63334	63698	Tune-up limit (dBm)	MPR (dB)				
3457.5	3500.01	3542.49						
15	PI2 BPSK	1	1	13.85			15.0	0.0
Channel								
Frequency (MHz)								
63034	63334	63732	Tune-up limit (dBm)	MPR (dB)				
3455.01	3500.01	3544.98						
10	PI2 BPSK	1	1	13.80			15.0	0.0

**Part27Q n78\_Ant 6 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	13.95			15.0	0.0
100	PI2 BPSK	1	137	13.88				
100	PI2 BPSK	1	211	13.78				
100	PI2 BPSK	135	0	13.83			15.0	0.0
100	PI2 BPSK	135	69	13.94			15.0	0.0
100	PI2 BPSK	135	138	13.87			15.0	0.0
100	PI2 BPSK	270	0	13.92				
100	QPSK	1	1	13.79				
100	QPSK	1	137	13.88			15.0	0.0
100	QPSK	1	211	13.76				
100	QPSK	135	0	13.81				
100	QPSK	135	69	13.85			15.0	0.0
100	QPSK	135	138	13.87				
100	QPSK	270	0	13.92			15.0	0.0
100	16QAM	1	1	13.54			15.0	0.0
100	64QAM	1	1	13.56			15.0	0.0
100	256QAM	1	1	13.70			15.0	0.0
Channel								
Frequency (MHz)								
64968	65000	65032	Tune-up limit (dBm)	MPR (dB)				
3745.02	3750	3754.98						
90	PI2 BPSK	1	1	13.88			15.0	0.0
Channel								
Frequency (MHz)								
64934	65000	65066	Tune-up limit (dBm)	MPR (dB)				
3742.01	3750	3756.99						
80	PI2 BPSK	1	1	13.83			15.0	0.0
Channel								
Frequency (MHz)								
64900	65000	65100	Tune-up limit (dBm)	MPR (dB)				
3735	3750	3765						
70	PI2 BPSK	1	1	13.75			15.0	0.0
Channel								
Frequency (MHz)								
64868	65000	65132	Tune-up limit (dBm)	MPR (dB)				
3730.02	3750	3769.98						
60	PI2 BPSK	1	1	13.70			15.0	0.0
Channel								
Frequency (MHz)								
3725.01	3750	3774.99						
50	PI2 BPSK	1	1	13.78			15.0	0.0
Channel								
Frequency (MHz)								
64800	65000	65200	Tune-up limit (dBm)	MPR (dB)				
3720	3750	3780						
40	PI2 BPSK	1	1	13.80			15.0	0.0
Channel								
Frequency (MHz)								
64768	65000	65232	Tune-up limit (dBm)	MPR (dB)				
3715.02	3750	3784.98						
30	PI2 BPSK	1	1	13.75			15.0	0.0
Channel								
Frequency (MHz)								
64700	65000	65200	Tune-up limit (dBm)	MPR (dB)				
3710.01	3750	3789.99						
25	PI2 BPSK	1	1	13.74			15.0	0.0
Channel								
Frequency (MHz)								
64734	65000	65266	Tune-up limit (dBm)	MPR (dB)				
3710.01	3750	3794.98						
20	PI2 BPSK	1	1	13.79			15.0	0.0
Channel								
Frequency (MHz)								
64715	65000	65275	Tune-up limit (dBm)	MPR (dB)				
3707.52	3750	3792.48						
15	PI2 BPSK	1	1	13.78			15.0	0.0
Channel								
Frequency (MHz)								
64700	65000	65300	Tune-up limit (dBm)	MPR (dB)				
3705	3750	3795						
10	PI2 BPSK	1	1	13.81			15.0	0.0

**Part27Q n78\_Ant 7 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.58			15.5	0.0
100	PI2 BPSK	1	137	16.45				
100	PI2 BPSK	1	211	16.21				
100	PI2 BPSK	135	0	16.52			15.5	0.0
100	PI2 BPSK	135	69	16.55			15.5	0.0
100	PI2 BPSK	135	138	16.36			15.5	0.0
100	PI2 BPSK	270	0	16.47				
100	QPSK	1	1	16.48				
100	QPSK	1	137	16.46			15.5	0.0
100	QPSK	1	211	16.22				
100	QPSK	135	0	16.55				
100	QPSK	135	69	16.47			15.5	0.0
100	QPSK	135	138	16.38				
100	QPSK	270	0	16.53			15.5	0.0
100	16QAM	1	1	16.23			15.5	0.0
100	64QAM	1	1	16.34			15.5	0.0
100	256QAM	1	1	16.32			15.5	0.0
Channel								
Frequency (MHz)								
63300	63334	63368	Tune-up limit (dBm)	MPR (dB)				
3495	3500.01	3504.99						
90	PI2 BPSK	1	1	16.50			15.5	0.0
Channel								
Frequency (MHz)								
63098	63334	63400	Tune-up limit (dBm)	MPR (dB)				
3482.69	3500.01	3518						
80	PI2 BPSK	1	1	16.41			15.5	0.0
Channel								
Frequency (MHz)								
63034	63334	63432	Tune-up limit (dBm)	MPR (dB)				
3485.01	3500.01	3514.98						
70	PI2 BPSK	1	1	16.37			15.5	0.0
Channel								
Frequency (MHz)								
63000	63334	63466	Tune-up limit (dBm)	MPR (dB)				
3480	3500.01	3519.99						
60	PI2 BPSK	1	1	16.43			15.5	0.0
Channel								
Frequency (MHz)								
3475.02	3500.01	3525						
50	PI2 BPSK	1	1	16.35			15.5	0.0
Channel								
Frequency (MHz)								
63134	63334	63532	Tune-up limit (dBm)	MPR (dB)				
3470.01	3500.01	3529.98						
40	PI2 BPSK	1	1	16.38			15.5	0.0
Channel								
Frequency (MHz)								
63100	63334	63566	Tune-up limit (dBm)	MPR (dB)				
3465	3500.01	3534.99						
30	PI2 BPSK	1	1	16.35			15.5	0.0
Channel								



### Part270 n78\_Ant 7 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.48				
100	PI2 BPSK	1	137	18.38			17.5	0.0
100	PI2 BPSK	1	211	18.22				
100	PI2 BPSK	135	0	16.43			17.5	0.0
100	PI2 BPSK	135	69	16.45			17.5	0.0
100	PI2 BPSK	135	138	18.35			17.5	0.0
100	PI2 BPSK	270	0	16.43				
100	QPSK	1	1	16.27				
100	QPSK	1	137	18.34			17.5	0.0
100	QPSK	1	211	18.18				
100	QPSK	135	0	16.35				
100	QPSK	135	69	16.36			17.5	0.0
100	QPSK	135	138	18.38				
100	QPSK	270	0	16.38			17.5	0.0
100	16QAM	1	1	16.06			17.5	0.0
100	64QAM	1	1	16.07			17.5	0.0
100	256QAM	1	1	16.02			17.5	0.0
Channel								
Frequency (MHz)								
685968	650000	650000	650392				Tune-up limit (dBm)	M-PR (dB)
3745.02	3750	3750	3754.98					
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.40	16.42	16.39	17.5	0.0
Channel								
Frequency (MHz)								
649334	650000	650066					Tune-up limit (dBm)	MPR (dB)
3745.02	3750	3759.99						
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.25	16.29	16.34	17.5	0.0
Channel								
Frequency (MHz)								
648900	650000	651000					Tune-up limit (dBm)	MPR (dB)
3735	3750	3765						
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.20	16.37	16.32	17.5	0.0
Channel								
Frequency (MHz)								
648668	650000	651332					Tune-up limit (dBm)	MPR (dB)
3730.02	3750	3769.98						
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.35	16.30	16.34	17.5	0.0
Channel								
Frequency (MHz)								
3725.01	3750	3774.99						
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.20	16.35	16.33	17.5	0.0
Channel								
Frequency (MHz)								
648000	650000	652000					Tune-up limit (dBm)	MPR (dB)
3720	3750	3780						
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.27	16.29	16.24	17.5	0.0
Channel								
Frequency (MHz)								
647688	650000	652332					Tune-up limit (dBm)	MPR (dB)
3715.02	3750	3784.98						
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.20	16.24	16.24	17.5	0.0
Channel								
Frequency (MHz)								
647500	650000	652500					Tune-up limit (dBm)	MPR (dB)
3712.5	3750	3777.5						
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.32	16.30	16.28	17.5	0.0
Channel								
Frequency (MHz)								
647334	650000	652666					Tune-up limit (dBm)	MPR (dB)
3710.01	3750	3789.99						
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.28	16.35	16.29	17.5	0.0
Channel								
Frequency (MHz)								
647168	650000	652832					Tune-up limit (dBm)	M-PR (dB)
3707.52	3750	3792.48						
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.27	16.28	16.32	17.5	0.0
Channel								
Frequency (MHz)								
647000	650000	653000					Tune-up limit (dBm)	MPR (dB)
3705	3750	3795						
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.31	16.29	16.33	17.5	0.0

### Part27Q n78\_Ant 8 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.36				
100	PI2 BPSK	1	137	18.21			17.5	0.0
100	PI2 BPSK	1	211	18.01				
100	PI2 BPSK	135	0	16.21			17.5	0.0
100	PI2 BPSK	135	69	16.25			17.5	0.0
100	PI2 BPSK	135	138	18.03			17.5	0.0
100	PI2 BPSK	270	0	16.16				
100	QPSK	1	1	16.24				
100	QPSK	1	137	18.21			17.5	0.0
100	QPSK	1	211	18.08				
100	QPSK	135	0	16.23				
100	QPSK	135	69	16.24			17.5	0.0
100	QPSK	135	138	18.04				
100	QPSK	270	0	16.24			17.5	0.0
100	16QAM	1	1	15.88			17.5	0.0
100	64QAM	1	1	20.01			17.5	0.0
100	256QAM	1	1	16.21			17.5	0.0
Channel								
Frequency (MHz)								
633000	633334	633666					Tune-up limit (dBm)	M-PR (dB)
3405	3500.01	3504.99						
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.28	16.32	16.25	17.5	0.0
Channel								
Frequency (MHz)								
633068	633334	634000					Tune-up limit (dBm)	MPR (dB)
3406.02	3500.01	3514.98						
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.23	16.21	16.16	17.5	0.0
Channel								
Frequency (MHz)								
633034	633334	634332					Tune-up limit (dBm)	MPR (dB)
3408.01	3500.01	3514.98						
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.12	16.20	16.19	17.5	0.0
Channel								
Frequency (MHz)								
632000	633334	634666					Tune-up limit (dBm)	MPR (dB)
3408	3500.01	3519.99						
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.20	16.17	16.11	17.5	0.0
Channel								
Frequency (MHz)								
631205	633334	635000					Tune-up limit (dBm)	MPR (dB)
3405.02	3500.01	3525						
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.23	16.20	16.19	17.5	0.0
Channel								
Frequency (MHz)								
631334	633334	635332					Tune-up limit (dBm)	MPR (dB)
3401.01	3500.01	3529.98						
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.14	16.16	16.20	17.5	0.0
Channel								
Frequency (MHz)								
631000	633334	635666					Tune-up limit (dBm)	MPR (dB)
3405	3500.01	3534.98						
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.21	16.22	16.11	17.5	0.0
Channel								
Frequency (MHz)								
630684	633334	635832					Tune-up limit (dBm)	MPR (dB)
3402.51	3500.01	3537.48						
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.18	16.20	16.09	17.5	0.0
Channel								
Frequency (MHz)								
630668	633334	636000					Tune-up limit (dBm)	MPR (dB)
3406.02	3500.01	3540						
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.19	16.17	16.09	17.5	0.0
Channel								
Frequency (MHz)								
630500	633334	636166					Tune-up limit (dBm)	M-PR (dB)
3407.52	3500.01	3542.48						
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.16	16.21	16.13	17.5	0.0
Channel								
Frequency (MHz)								
630334	633334	636332					Tune-up limit (dBm)	MPR (dB)
3405.01	3500.01	3544.98						
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.18	16.21	16.17	17.5	0.0

### Part270 n78\_Ant 8 DSI 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								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.23				
100	PI2 BPSK	1	137	15.89			17.5	0.0
100	PI2 BPSK	1	211	15.85				
100	PI2 BPSK	135	0	15.85			17.5	0.0
100	PI2 BPSK	135	69	16.20			17.5	0.0
100	PI2 BPSK	135	138	15.86			17.5	0.0
100	PI2 BPSK	270	0	16.18				
100	QPSK	1	1	15.75				
100	QPSK	1	137	15.88			17.5	0.0
100	QPSK	1	211	15.82				
100	QPSK	135	0	15.81				
100	QPSK	135	69	15.93			17.5	0.0
100	QPSK	135	138	15.87				
100	QPSK	270	0	15.94			17.5	0.0
100	16QAM	1	1	15.85			17.5	0.0
100	64QAM	1	1	15.83			17.5	0.0
100	256QAM	1	1	15.82			17.5	0.0
Channel								
Frequency (MHz)								
658968	650000	659392					Tune-up limit (dBm)	MPR (dB)
3745.02	3750	3754.98						
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.91	15.95	15.86	17.5	0.0
Channel								
Frequency (MHz)								
649334	650000	650666					Tune-up limit (dBm)	MPR (dB)
3745.02	3750	3769.99						
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.86	15.89	15.73	17.	



For DFT-15

n5_Ant 0 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	Pi2 BPSK	1	1	25.23	25.26	25.24	25.7	0.0	
20	Pi2 BPSK	1	53	25.22	25.25	25.23			
20	Pi2 BPSK	1	104	25.17	25.17	25.12			
20	Pi2 BPSK	50	0	24.45	24.57	24.48	26.2	0.5	
20	Pi2 BPSK	50	26	24.95	25.06	25.03	25.7	0.0	
20	Pi2 BPSK	50	56	24.43	24.51	24.36	25.2	0.5	
20	Pi2 BPSK	100	0	24.42	24.57	24.45			
20	QPSK	1	1	25.03	25.08	25.00			
20	QPSK	1	53	24.93	25.03	24.92	25.7	0.0	
20	QPSK	1	104	24.88	25.01	24.90	24.7	1.0	
20	QPSK	50	0	23.98	24.06	24.01			
20	QPSK	50	26	24.94	25.05	24.90			
20	QPSK	50	56	23.89	24.04	23.95	24.7	1.0	
20	QPSK	100	0	24.02	24.07	23.92	24.7	1.0	
20	16QAM	1	1	23.91	23.97	23.86			
20	64QAM	1	1	22.43	22.55	22.39			
20	256QAM	1	1	20.93	21.03	20.92	21.2	4.5	
Channel									
Frequency (MHz)									
15	Pi2 BPSK	1	1	25.02	25.07	24.99	25.7	0.0	
Channel									
Frequency (MHz)									
10	Pi2 BPSK	1	1	25.00	25.10	24.94	25.7	0.0	
Channel									
Frequency (MHz)									
5	Pi2 BPSK	1	1	25.02	25.00	24.95	25.7	0.0	

n5_Ant 1 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	Pi2 BPSK	1	1	21.04	21.12	21.05	21.7	0.0	
20	Pi2 BPSK	1	53	21.02	21.09	21.01			
20	Pi2 BPSK	1	104	20.99	20.99	20.95			
20	Pi2 BPSK	50	0	20.83	20.90	20.85	21.7	0.0	
20	Pi2 BPSK	50	26	20.91	20.96	20.93	21.7	0.0	
20	Pi2 BPSK	50	56	20.81	20.84	20.82	21.7	0.0	
20	Pi2 BPSK	100	0	20.82	20.85	20.83			
20	QPSK	1	1	20.91	20.97	20.93			
20	QPSK	1	53	20.86	21.04	21.04	21.7	0.0	
20	QPSK	1	104	20.82	20.92	20.85	21.7	0.0	
20	QPSK	50	0	20.76	20.84	20.74			
20	QPSK	50	26	20.77	20.93	20.91			
20	QPSK	50	56	20.69	20.82	20.80	21.7	0.0	
20	QPSK	100	0	20.67	20.81	20.71	21.7	0.0	
20	16QAM	1	1	20.40	20.64	20.59			
20	64QAM	1	1	21.11	21.08	21.09			
20	256QAM	1	1	19.61	19.73	19.66	20.2	1.5	
Channel									
Frequency (MHz)									
15	Pi2 BPSK	1	1	20.90	21.07	20.92	21.7	0.0	
Channel									
Frequency (MHz)									
10	Pi2 BPSK	1	1	20.94	21.00	20.97	21.7	0.0	
Channel									
Frequency (MHz)									
5	Pi2 BPSK	1	1	20.93	21.03	21.00	21.7	0.0	

n7_Ant 0 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
50	Pi2 BPSK	1	1	22.38	22.41	22.36	24.0	0.0	
50	Pi2 BPSK	1	135	22.25	22.28	22.21			
50	Pi2 BPSK	1	268	22.35	22.24	22.21			
50	Pi2 BPSK	135	0	21.78	21.83	21.87	23.5	0.5	
50	Pi2 BPSK	135	68	22.36	22.38	22.21	24.0	0.0	
50	Pi2 BPSK	135	135	21.44	21.53	21.42	23.5	0.5	
50	Pi2 BPSK	270	0	21.74	21.75	21.68			
50	QPSK	1	1	22.37	22.40	22.35			
50	QPSK	1	135	22.28	22.34	22.23	24.0	0.0	
50	QPSK	1	268	22.04	22.11	21.95	23.0	1.0	
50	QPSK	135	0	21.08	21.21	21.15			
50	QPSK	135	68	22.13	22.21	22.12			
50	QPSK	135	135	20.83	20.93	20.79	23.0	1.0	
50	QPSK	270	0	21.02	21.13	21.06	23.0	1.0	
50	16QAM	1	1	21.21	21.26	21.15			
50	64QAM	1	1	19.68	19.78	19.71			
50	256QAM	1	1	18.60	18.69	18.56	19.5	4.5	
Channel									
Frequency (MHz)									
40	Pi2 BPSK	1	1	22.31	22.32	22.27	24.0	0.0	
Channel									
Frequency (MHz)									
30	Pi2 BPSK	1	1	22.36	22.31	22.31	24.0	0.0	
Channel									
Frequency (MHz)									
25	Pi2 BPSK	1	1	22.37	22.10	22.20	24.0	0.0	
Channel									
Frequency (MHz)									
20	Pi2 BPSK	1	1	22.37	22.10	22.20	24.0	0.0	
Channel									
Frequency (MHz)									
15	Pi2 BPSK	1	1	21.98	22.11	21.97	24.0	0.0	
Channel									
Frequency (MHz)									
10	Pi2 BPSK	1	1	22.00	22.19	22.02	24.0	0.0	
Channel									
Frequency (MHz)									
5	Pi2 BPSK	1	1	21.98	22.03	21.97	24.0	0.0	



n7_Ant 2 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	PI2 BPSK	1	1	24.48	24.59	24.56				
50	PI2 BPSK	1	135	24.22	24.28	24.14	25.0	0.0		
50	PI2 BPSK	1	268	24.34	24.28	24.55				
50	PI2 BPSK	135	0	23.82	23.88	23.80	24.5	0.5		
50	PI2 BPSK	135	68	24.26	24.33	24.29	25.0	0.0		
50	PI2 BPSK	135	135	23.82	23.85	23.78	24.5	0.5		
50	PI2 BPSK	270	0	23.86	23.80	23.82				
50	QPSK	1	1	24.34	24.43	24.34				
50	QPSK	1	135	23.84	24.10	23.97	25.0	0.0		
50	QPSK	1	268	24.15	24.27	24.21				
50	QPSK	135	0	23.73	23.83	23.86	24.0	1.0		
50	QPSK	135	68	24.19	24.24	24.17	25.0	0.0		
50	QPSK	135	135	23.54	23.68	23.56	24.0	1.0		
50	QPSK	270	0	23.87	23.75	23.88				
50	16QAM	1	1	23.51	23.62	23.50	24.0	1.0		
50	16QAM	1	1	21.32	21.35	21.30	22.5	2.5		
50	256QAM	1	1	20.34	20.47	20.39	20.5	4.5		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	24.28	24.39	24.24	25.0	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	24.32	24.27	24.32	25.0	0.0		
Channel										
Frequency (MHz)										
25	PI2 BPSK	1	1	23.34	23.44	23.34	25.0	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	24.09	24.19	24.07	25.0	0.0		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	24.08	24.12	24.13	25.0	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	24.07	24.14	24.11	25.0	0.0		
Channel										
Frequency (MHz)										
5	PI2 BPSK	1	1	24.09	24.12	24.12	25.0	0.0		

n7_Ant 3 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	PI2 BPSK	1	1	21.89	21.71	21.87				
50	PI2 BPSK	1	135	21.55	21.56	21.51	22.7	0.0		
50	PI2 BPSK	1	268	21.50	21.54	21.44				
50	PI2 BPSK	135	0	21.54	21.55	21.48	22.2	0.5		
50	PI2 BPSK	135	68	21.62	21.67	21.56	22.7	0.0		
50	PI2 BPSK	135	135	21.60	21.64	21.60	22.2	0.5		
50	PI2 BPSK	270	0	21.60	21.63	21.56				
50	QPSK	1	1	21.57	21.62	21.51				
50	QPSK	1	135	21.50	21.54	21.50	22.7	0.0		
50	QPSK	1	268	21.56	21.58	21.51				
50	QPSK	135	0	21.50	21.56	21.46	21.7	1.0		
50	QPSK	135	68	21.47	21.53	21.46	22.7	0.0		
50	QPSK	135	135	21.50	21.56	21.48	21.7	1.0		
50	QPSK	270	0	21.62	21.62	21.62				
50	16QAM	1	1	21.54	21.59	21.48	21.7	1.0		
50	16QAM	1	1	21.55	21.61	21.52	20.2	2.5		
50	256QAM	1	1	21.38	21.42	21.34	18.2	4.5		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	21.65	21.67	21.65	22.7	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	21.67	21.65	21.65	22.7	0.0		
Channel										
Frequency (MHz)										
25	PI2 BPSK	1	1	21.67	21.69	21.68	22.7	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	21.68	21.68	21.68	22.7	0.0		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	21.69	21.70	21.65	22.7	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	21.65	21.67	21.66	22.7	0.0		
Channel										
Frequency (MHz)										
5	PI2 BPSK	1	1	21.67	21.69	21.63	22.7	0.0		

n7_Ant 5 DSI 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	PI2 BPSK	1	1	19.66	19.97	19.65				
50	PI2 BPSK	1	135	19.53	19.55	19.51	21.5	0.0		
50	PI2 BPSK	1	268	19.47	19.50	19.43				
50	PI2 BPSK	135	0	19.52	19.51	19.46	21.0	0.5		
50	PI2 BPSK	135	68	19.61	19.73	19.56	21.5	0.0		
50	PI2 BPSK	135	135	19.57	19.64	19.60	21.0	0.5		
50	PI2 BPSK	270	0	19.57	19.59	19.52				
50	QPSK	1	1	19.57	19.60	19.47				
50	QPSK	1	135	19.48	19.51	19.50	21.5	0.0		
50	QPSK	1	268	19.52	19.57	19.48				
50	QPSK	135	0	19.50	19.53	19.42	20.5	1.0		
50	QPSK	135	68	19.46	19.51	19.44	21.5	0.0		
50	QPSK	135	135	19.49	19.54	19.44	20.5	1.0		
50	QPSK	270	0	19.58	19.61	19.58				
50	16QAM	1	1	19.52	19.59	19.44	20.5	1.0		
50	16QAM	1	1	19.53	19.59	19.48	19.0	2.5		
50	256QAM	1	1	19.35	19.40	19.33	17.0	4.5		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	19.66	19.74	19.64	21.5	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	19.62	19.73	19.65	21.5	0.0		
Channel										
Frequency (MHz)										
25	PI2 BPSK	1	1	19.63	19.75	19.61	21.5	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	19.64	19.74	19.63	21.5	0.0		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	19.64	19.75	19.64	21.5	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	19.64	19.76	19.64	21.5	0.0		
Channel										
Frequency (MHz)										
5	PI2 BPSK	1	1	19.65	19.76	19.61	21.5	0.0		



For DFT-30

n38_Ant 0 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				516004	516000	516996			
				2590.02	2595	2599.98			
40	P12 BPSK	1	1	22.83	22.89	22.80			
40	P12 BPSK	1	53	22.73	22.68	22.56	24.0	0.0	
40	P12 BPSK	1	104	22.47	22.34	22.23			
40	P12 BPSK	50	0	21.87	22.02	21.92	23.5	0.5	
40	P12 BPSK	50	26	22.36	22.76	22.34	24.0	0.0	
40	P12 BPSK	50	56	22.01	22.15	22.09	23.5	0.5	
40	P12 BPSK	100	0	22.16	22.25	22.12			
40	QPSK	1	1	22.69	22.74	22.59			
40	QPSK	1	53	22.37	22.56	22.35	24.0	0.0	
40	QPSK	1	104	22.24	22.59	22.26			
40	QPSK	50	0	22.38	22.65	22.39			
40	QPSK	50	26	22.31	22.53	22.29	24.0	0.0	
40	QPSK	50	56	22.17	22.51	22.11			
40	QPSK	100	0	21.52	21.96	21.53	23.0	1.0	
40	16QAM	1	1	21.24	21.54	21.16	23.0	1.0	
40	64QAM	1	1	20.05	20.12	20.06	21.5	2.5	
40	256QAM	1	1	18.41	18.48	18.43	19.5	4.5	
Channel									
Frequency (MHz)				517002	519000	520998			
				2595.01	2595	2604.99			
30	P12 BPSK	1	1	22.53	22.69	22.58	24.0	0.0	
Channel									
Frequency (MHz)				516504	519000	521496			
				2592.52	2595	2607.48			
25	P12 BPSK	1	1	21.80	21.91	21.76	24.0	0.0	
Channel									
Frequency (MHz)				516000	519000	522000			
				2590	2595	2610			
20	P12 BPSK	1	1	22.55	22.74	22.61	24.0	0.0	
Channel									
Frequency (MHz)				515502	519000	522498			
				2577.51	2595	2612.49			
15	P12 BPSK	1	1	22.36	22.61	22.50	24.0	0.0	
Channel									
Frequency (MHz)				515004	519000	522996			
				2575.02	2595	2614.98			
10	P12 BPSK	1	1	22.61	22.65	22.61	24.0	0.0	

n38_Ant 2 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				516004	519000	519996			
				2590.02	2595	2599.98			
40	P12 BPSK	1	1	24.94	24.98	24.96			
40	P12 BPSK	1	53	24.82	24.83	24.74	25.5	0.0	
40	P12 BPSK	1	104	24.86	24.92	24.82			
40	P12 BPSK	50	0	24.07	24.22	24.12	25.0	0.5	
40	P12 BPSK	50	26	24.54	24.68	24.55	25.5	0.0	
40	P12 BPSK	50	56	24.86	24.07	23.55	25.0	0.5	
40	P12 BPSK	100	0	24.04	24.16	24.09			
40	QPSK	1	1	24.89	24.97	24.91			
40	QPSK	1	53	24.69	24.75	24.67	25.5	0.0	
40	QPSK	1	104	24.85	24.77	24.61			
40	QPSK	50	0	24.37	24.51	24.41			
40	QPSK	50	26	24.36	24.48	24.39	25.5	0.0	
40	QPSK	50	56	24.33	24.38	24.24			
40	QPSK	100	0	23.87	23.94	23.78	24.5	1.0	
40	16QAM	1	1	23.57	23.63	23.49	24.5	1.0	
40	64QAM	1	1	22.03	22.12	21.98	23.0	2.5	
40	256QAM	1	1	20.67	20.82	20.72	21.0	4.5	
Channel									
Frequency (MHz)				517002	519000	520998			
				2595.01	2595	2604.99			
30	P12 BPSK	1	1	24.71	24.82	24.70	25.5	0.0	
Channel									
Frequency (MHz)				516504	519000	521496			
				2592.52	2595	2607.48			
25	P12 BPSK	1	1	24.01	24.16	24.08	25.5	0.0	
Channel									
Frequency (MHz)				516000	519000	522000			
				2590	2595	2610			
20	P12 BPSK	1	1	24.72	24.80	24.72	25.5	0.0	
Channel									
Frequency (MHz)				515502	519000	522498			
				2577.51	2595	2612.49			
15	P12 BPSK	1	1	24.71	24.73	24.75	25.5	0.0	
Channel									
Frequency (MHz)				515004	519000	522996			
				2575.02	2595	2614.98			
10	P12 BPSK	1	1	24.74	24.73	24.68	25.5	0.0	

n38_Ant 3 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				516004	519000	519996			
				2590.02	2595	2599.98			
40	P12 BPSK	1	1	22.84	22.90	22.86			
40	P12 BPSK	1	53	22.79	22.69	22.79	23.2	0.0	
40	P12 BPSK	1	104	22.72	22.84	22.84			
40	P12 BPSK	50	0	22.71	22.76	22.74	23.2	0.0	
40	P12 BPSK	50	26	22.76	22.76	22.76	23.2	0.0	
40	P12 BPSK	50	56	22.58	22.65	22.60			
40	P12 BPSK	100	0	22.75	22.80	22.74	23.2	0.0	
40	QPSK	1	1	22.83	22.84	22.84			
40	QPSK	1	53	22.83	22.83	22.78	23.2	0.0	
40	QPSK	1	104	22.78	22.85	22.85			
40	QPSK	50	0	22.75	22.76	22.69			
40	QPSK	50	26	22.72	22.79	22.75	23.2	0.0	
40	QPSK	50	56	22.74	22.81	22.80			
40	QPSK	100	0	22.67	22.74	22.70	22.2	1.0	
40	16QAM	1	1	22.83	22.89	22.87	22.2	1.0	
40	64QAM	1	1	22.84	22.87	22.84	20.7	2.5	
40	256QAM	1	1	22.89	22.71	22.65	18.7	4.5	
Channel									
Frequency (MHz)				517002	519000	520998			
				2595.01	2595	2604.99			
30	P12 BPSK	1	1	22.82	22.83	22.80	23.2	0.0	
Channel									
Frequency (MHz)				516504	519000	521496			
				2592.52	2595	2607.48			
25	P12 BPSK	1	1	22.77	22.87	22.85	23.2	0.0	
Channel									
Frequency (MHz)				516000	519000	522000			
				2590	2595	2610			
20	P12 BPSK	1	1	22.83	22.87	22.82	23.2	0.0	
Channel									
Frequency (MHz)				515502	519000	522498			
				2577.51	2595	2612.49			
15	P12 BPSK	1	1	22.82	22.89	22.84	23.2	0.0	
Channel									
Frequency (MHz)				515004	519000	522996			
				2575.02	2595	2614.98			
10	P12 BPSK	1	1	22.77	22.78	22.79	23.2	0.0	



n38_Ant 5 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				51600.4	51600	51699.6			
				2590.02	2595	2599.98			
40	P1/2 BPSK	1	1	20.11	20.17	20.16			
40	P1/2 BPSK	1	33	20.03	20.06	20.01	21.5	0.0	
40	P1/2 BPSK	1	104	20.14	20.15	20.12			
40	P1/2 BPSK	50	0	20.07	20.08	19.97	21.5	0.0	
40	P1/2 BPSK	50	26	20.08	20.06	20.03	21.5	0.0	
40	P1/2 BPSK	50	56	20.02	20.06	19.99			
40	P1/2 BPSK	100	0	20.04	20.05	20.04			
40	QPSK	1	1	19.97	19.98	19.94			
40	QPSK	1	53	19.97	19.99	19.94	21.5	0.0	
40	QPSK	1	104	19.94	20.01	19.85			
40	QPSK	50	0	19.95	19.96	19.94			
40	QPSK	50	26	19.91	19.96	19.91	21.5	0.0	
40	QPSK	50	56	19.90	19.94	19.91			
40	QPSK	100	0	19.96	19.96	19.94	20.5	1.0	
40	16QAM	1	1	19.94	20.01	19.94	20.5	1.0	
40	16QAM	1	1	20.01	20.03	19.98	19.0	2.5	
40	256QAM	1	1	19.87	19.93	19.90	17.0	4.5	
Channel									
Frequency (MHz)				51700.02	51600	51699.98			
				2595.01	2595	2604.99			
30	P1/2 BPSK	1	1	20.04	20.11	20.13	21.5	0.0	
Channel									
Frequency (MHz)				51650.4	51900	52149.6			
				2590	2595	2610			
25	P1/2 BPSK	1	1	20.10	20.13	20.15	21.5	0.0	
Channel									
Frequency (MHz)				51600.0	51900	52200.0			
				2590	2595	2610			
20	P1/2 BPSK	1	1	20.09	20.10	20.12	21.5	0.0	
Channel									
Frequency (MHz)				51550.2	51900	52249.8			
				2577.51	2595	2612.49			
15	P1/2 BPSK	1	1	20.05	20.14	20.13	21.5	0.0	
Channel									
Frequency (MHz)				51550.4	51900	52299.6			
				2575.02	2595	2614.98			
10	P1/2 BPSK	1	1	20.09	20.10	20.11	21.5	0.0	

Part27Q n78_Ant 4 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				63333.4	63333.4	63333.4			
				3000.01	3000.01	3000.01			
100	P1/2 BPSK	1	1	21.32					
100	P1/2 BPSK	1	137	21.03			22.0	0.0	
100	P1/2 BPSK	1	211	21.29					
100	P1/2 BPSK	135	0	21.18			22.0	0.0	
100	P1/2 BPSK	135	69	21.20			22.0	0.0	
100	P1/2 BPSK	135	138	21.11			22.0	0.0	
100	P1/2 BPSK	270	0	21.12					
100	QPSK	1	1	21.23					
100	QPSK	1	137	21.05			22.0	0.0	
100	QPSK	1	271	21.13					
100	QPSK	135	0	20.85			22.0	0.0	
100	QPSK	135	69	20.84					
100	QPSK	135	138	21.00					
100	QPSK	270	0	20.99			22.0	0.0	
100	16QAM	1	1	19.98			22.0	0.0	
100	16QAM	1	1	18.81			22.0	0.0	
100	256QAM	1	1	17.21			20.0	2.0	
Channel									
Frequency (MHz)				63300.0	63333.4	63366.8			
				3495	3500.01	3504.99			
50	P1/2 BPSK	1	1	21.21	21.19	21.26	22.0	0.0	
Channel									
Frequency (MHz)				63300.8	63333.4	63400.0			
				3485.01	3500.01	3514.98			
50	P1/2 BPSK	1	1	21.13	21.07	21.15	22.0	0.0	
Channel									
Frequency (MHz)				63333.4	63333.4	63433.2			
				3485.01	3500.01	3514.98			
70	P1/2 BPSK	1	1	21.10	21.09	21.12	22.0	0.0	
Channel									
Frequency (MHz)				63300.0	63333.4	63466.8			
				3480	3500.01	3519.99			
60	P1/2 BPSK	1	1	21.06	21.09	21.10	22.0	0.0	
Channel									
Frequency (MHz)				63113.4	63333.4	63533.2			
				3470.01	3500.01	3529.98			
50	P1/2 BPSK	1	1	21.06	21.09	21.11	22.0	0.0	
Channel									
Frequency (MHz)				63100.0	63333.4	63566.8			
				3465	3500.01	3534.98			
40	P1/2 BPSK	1	1	21.15	21.08	21.13	22.0	0.0	
Channel									
Frequency (MHz)				63100.0	63333.4	63599.6			
				3462.51	3500.01	3537.48			
30	P1/2 BPSK	1	1	21.10	21.04	21.11	22.0	0.0	
Channel									
Frequency (MHz)				63063.4	63333.4	63633.2			
				3462.51	3500.01	3537.48			
25	P1/2 BPSK	1	1	21.10	21.04	21.11	22.0	0.0	
Channel									
Frequency (MHz)				63068.0	63333.4	63666.8			
				3460.02	3500.01	3540			
20	P1/2 BPSK	1	1	21.12	21.10	21.11	22.0	0.0	
Channel									
Frequency (MHz)				63050.0	63333.4	63699.6			
				3457.5	3500.01	3542.49			
15	P1/2 BPSK	1	1	21.05	21.08	21.16	22.0	0.0	
Channel									
Frequency (MHz)				63033.4	63333.4	63733.2			
				3455.01	3500.01	3544.98			
10	P1/2 BPSK	1	1	21.16	21.08	21.15	22.0	0.0	

Part27O n78_Ant 4 DSI 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				65000.0	65000.0	65000.0			
				3750	3750	3750			
100	P1/2 BPSK	1	1	21.28					
100	P1/2 BPSK	1	137	20.92			22.0	0.0	
100	P1/2 BPSK	1	271	21.25					
100	P1/2 BPSK	135	0	20.59			22.0	0.0	
100	P1/2 BPSK	135	69	21.23			22.0	0.0	
100	P1/2 BPSK	135	138	20.64			22.0	0.0	
100	P1/2 BPSK	270	0	20.72					
100	QPSK	1	1	21.00					
100	QPSK	1	137	20.91			22.0	0.0	
100	QPSK	1	271	21.19					
100	QPSK	135	0	20.57			22.0	0.0	
100	QPSK	135	69	21.00					
100	QPSK	135	138	21.04					
100	QPSK	270	0	20.62			22.0	0.0	
100	16QAM	1	1	21.10			22.0	0.0	
100	16QAM	1	1	20.15			22.0	0.0	
100	256QAM	1	1	18.45			20.0	2.0	
Channel									
Frequency (MHz)				65050.0	65000.0	65050.0			
				3745.02	3750	3754.98			
50	P1/2 BPSK	1	1	20.99	20.97	21.04	22.0	0.0	
Channel									
Frequency (MHz)				64933.4	65000.0	65066.6			
				3740.01	3750	3759.99			
50	P1/2 BPSK	1	1	20.84	20.83	20.84	22.0	0.0	
Channel									
Frequency (MHz)				64900.0	65000.0	65100.0			
				3735	3750	3765			
70	P1/2 BPSK	1	1	20.83	20.84	20.84	22.0	0.0	
Channel									
Frequency (MHz)				64868.0	65000.0	65132.0			
				3730.02	3750	3769.98			
60	P1/2 BPSK	1	1	20.83	20.82	20.84	22.0	0.0	
Channel									
Frequency (MHz)				64833.4	65000.0	65166.6			
				3725.01	3750	3774.99			
50	P1/2 BPSK	1	1	20.83	20.85	20.84	22.0	0.0	
Channel									
Frequency (MHz)				64800.0	65000.0	65200.0			
				3720	3750	3780			
40	P1/2 BPSK	1	1	20.87	20.89	20.92	22.0	0.0	
Channel									
Frequency (MHz)				64768.0	65000.0	65232.0			
				3715.02	3750	3784.98			
30	P1/2 BPSK	1	1	20.85	20.90	20.92	22.0	0.0	
Channel									
Frequency (MHz)				64750.0	65000.0	65250.0			
				3712.5	3750	3787.5			
25	P1/2 BPSK	1	1	20.86	20.88	20.90	22.0	0.0	
Channel									
Frequency (MHz)				64734.0	65000.0	65266.0			
				3710.01	3750	3789.99			
20	P1/2 BPSK	1	1	20.93	20.83	20.99	22.0	0.0	
Channel									
Frequency (MHz)				64718.0	65000.0	65282.0			
				3707.52	3750	3792.48			
15	P1/2 BPSK	1	1	20.84	20.83	20.87	22.0	0.0	
Channel									
Frequency (MHz)				64700.0	65000.0	65300.0			
				3705	3750	3795			
10	P1/2 BPSK	1	1	20.94	20.83	20.99	22.0	0.0	



### Part27Q n78\_Ant 6 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	22.57				
100	Pi2 BPSK	1	137	22.41			24.0	0.0
100	Pi2 BPSK	1	211	22.48				
100	Pi2 BPSK	135	0	22.51			23.5	0.5
100	Pi2 BPSK	135	69	22.53			24.0	0.0
100	Pi2 BPSK	135	138	22.47			23.5	0.5
100	Pi2 BPSK	270	0	22.52				
100	QPSK	1	1	22.51				
100	QPSK	1	137	22.47			24.0	0.0
100	QPSK	1	211	22.46				
100	QPSK	135	0	22.49				
100	QPSK	135	69	22.50			24.0	0.0
100	QPSK	135	138	22.41				
100	QPSK	270	0	22.42			23.0	1.0
100	16QAM	1	1	22.45			23.0	1.0
100	64QAM	1	1	22.56			21.5	2.5
100	256QAM	1	1	22.34			19.5	4.5
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	22.48	63300	63396	Tune-up limit (dBm)	MPR (dB)
				3495	3500.01	3504.99		
80	Pi2 BPSK	1	1	22.48	63308	63334	Tune-up limit (dBm)	MPR (dB)
				3482.01	3500.01	3514.98		
80	Pi2 BPSK	1	1	22.49	63334	63432	Tune-up limit (dBm)	MPR (dB)
				3485.01	3500.01	3514.98		
70	Pi2 BPSK	1	1	22.41	63200	63334	Tune-up limit (dBm)	MPR (dB)
				3485	3500.01	3519.99		
60	Pi2 BPSK	1	1	22.49	63334	63432	Tune-up limit (dBm)	MPR (dB)
				3475.02	3500.01	3525		
50	Pi2 BPSK	1	1	22.48	631334	63334	Tune-up limit (dBm)	MPR (dB)
				3470.01	3500.01	3525.98		
40	Pi2 BPSK	1	1	22.46	631000	63334	Tune-up limit (dBm)	MPR (dB)
				3465	3500.01	3534.99		
30	Pi2 BPSK	1	1	22.45	630834	63334	Tune-up limit (dBm)	MPR (dB)
				3462.01	3500.01	3537.48		
25	Pi2 BPSK	1	1	22.30	63068	63334	Tune-up limit (dBm)	MPR (dB)
				3460.02	3500.01	3540		
20	Pi2 BPSK	1	1	22.30	63050	63334	Tune-up limit (dBm)	MPR (dB)
				3457.5	3500.01	3542.49		
15	Pi2 BPSK	1	1	22.46	630334	63334	Tune-up limit (dBm)	MPR (dB)
				3455.01	3500.01	3544.98		
10	Pi2 BPSK	1	1	22.46	63024	63334	Tune-up limit (dBm)	MPR (dB)
				3452.5	3500.01	3547.48		

### Part27Q n78\_Ant 6 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	22.47				
100	Pi2 BPSK	1	137	22.31			24.0	0.0
100	Pi2 BPSK	1	211	22.38				
100	Pi2 BPSK	135	0	22.41			23.5	0.5
100	Pi2 BPSK	135	69	22.43			24.0	0.0
100	Pi2 BPSK	135	138	22.37			23.5	0.5
100	Pi2 BPSK	270	0	22.42				
100	QPSK	1	1	22.41				
100	QPSK	1	137	22.37			24.0	0.0
100	QPSK	1	211	22.36				
100	QPSK	135	0	22.39				
100	QPSK	135	69	22.40			24.0	0.0
100	QPSK	135	138	22.31				
100	QPSK	270	0	22.32			23.0	1.0
100	16QAM	1	1	22.35			23.0	1.0
100	64QAM	1	1	22.46			21.5	2.5
100	256QAM	1	1	22.24			19.5	4.5
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	22.39	64900	65032	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3754.98		
80	Pi2 BPSK	1	1	22.39	64934	65000	Tune-up limit (dBm)	MPR (dB)
				3742	3750	3758		
80	Pi2 BPSK	1	1	22.39	64900	65066	Tune-up limit (dBm)	MPR (dB)
				3735	3750	3765		
70	Pi2 BPSK	1	1	22.38	64868	65000	Tune-up limit (dBm)	MPR (dB)
				3730.02	3750	3769.98		
60	Pi2 BPSK	1	1	22.42	64834	65000	Tune-up limit (dBm)	MPR (dB)
				3725.01	3750	3774.99		
50	Pi2 BPSK	1	1	22.39	64800	65000	Tune-up limit (dBm)	MPR (dB)
				3720	3750	3780		
40	Pi2 BPSK	1	1	22.38	64768	65000	Tune-up limit (dBm)	MPR (dB)
				3715.02	3750	3784.98		
30	Pi2 BPSK	1	1	22.43	64734	65000	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3789.99		
25	Pi2 BPSK	1	1	22.43	64700	65000	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795		
20	Pi2 BPSK	1	1	22.38	64676	65000	Tune-up limit (dBm)	MPR (dB)
				3702.5	3750	3792.49		
15	Pi2 BPSK	1	1	22.41	64640	65000	Tune-up limit (dBm)	MPR (dB)
				3700	3750	3795		
10	Pi2 BPSK	1	1	22.42	64600	65000	Tune-up limit (dBm)	MPR (dB)
				3695	3750	3795		

### Part27Q n78\_Ant 7 DSI 3

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pi2 BPSK	1	1	16.58				
100	Pi2 BPSK	1	137	16.45			17.5	0.0
100	Pi2 BPSK	1	211	16.31				
100	Pi2 BPSK	135	0	16.52			17.5	0.0
100	Pi2 BPSK	135	69	16.55			17.5	0.0
100	Pi2 BPSK	135	138	16.36			17.5	0.0
100	Pi2 BPSK	270	0	16.47				
100	QPSK	1	1	16.48				
100	QPSK	1	137	16.48			17.5	0.0
100	QPSK	1	211	16.32				
100	QPSK	135	0	16.55				
100	QPSK	135	69	16.47			17.5	0.0
100	QPSK	135	138	16.38				
100	QPSK	270	0	16.53			17.5	0.0
100	16QAM	1	1	16.23			17.5	0.0
100	64QAM	1	1	16.34			17.5	0.0
100	256QAM	1	1	16.32			17.5	0.0
Channel								
Frequency (MHz)								
90	Pi2 BPSK	1	1	16.50	63334	63396	Tune-up limit (dBm)	MPR (dB)
				3495	3500.01	3504.99		
80	Pi2 BPSK	1	1	16.50	63308	63334	Tune-up limit (dBm)	MPR (dB)
				3482.01	3500.01	3514.98		
80	Pi2 BPSK	1	1	16.41	63234	63334	Tune-up limit (dBm)	MPR (dB)
				3485.01	3500.01	3514.98		
70	Pi2 BPSK	1	1	16.27	63200	63334	Tune-up limit (dBm)	MPR (dB)
				3485	3500.01	3519.99		
60	Pi2 BPSK	1	1	16.43	631334	63334	Tune-up limit (dBm)	MPR (dB)
				3475.02	3500.01	3525		
50	Pi2 BPSK	1	1	16.42	631000	63334	Tune-up limit (dBm)	MPR (dB)
				3470.01	3500.01	3525.98		
40	Pi2 BPSK	1	1	16.38	630834	63334	Tune-up limit (dBm)	MPR (dB)
				3465	3500.01	3534.99		
30	Pi2 BPSK	1	1	16.35	63068	63334	Tune-up limit (dBm)	MPR (dB)
				3462.01	3500.01	3537.48		
25	Pi2 BPSK	1	1	16.42	63050	63334	Tune-up limit (dBm)	MPR (dB)
				3460.02	3500.01	3540		
20	Pi2 BPSK	1	1	16.44	630334	63334	Tune-up limit (dBm)	MPR (dB)
				3457.5	3500.01	3542.49		
15	Pi2 BPSK	1	1	16.40	63024	63334	Tune-up limit (dBm)	MPR (dB)
				3455.01	3500.01	3544.98		
10	Pi2 BPSK	1	1	16.40	63015	63334	Tune-up limit (dBm)	MPR (dB)
				3452.5	3500.01	3547.48		



**Part270 n78\_Ant 7 DSI 3**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	16.48			17.5	0.0
100	PI2 BPSK	1	137	16.38				
100	PI2 BPSK	1	211	16.22				
100	PI2 BPSK	135	0	16.43			17.5	0.0
100	PI2 BPSK	135	69	16.45			17.5	0.0
100	PI2 BPSK	135	138	16.35			17.5	0.0
100	PI2 BPSK	210	0	16.43				
100	QPSK	1	1	16.27				
100	QPSK	1	137	16.34			17.5	0.0
100	QPSK	1	211	16.18				
100	QPSK	135	0	16.35				
100	QPSK	135	69	16.36			17.5	0.0
100	QPSK	135	138	16.36				
100	QPSK	210	0	16.36			17.5	0.0
100	16QAM	1	1	16.06			17.5	0.0
100	64QAM	1	1	16.07			17.5	0.0
100	256QAM	1	1	16.02			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.40	16.42	16.36	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.28	16.29	16.34	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.30	16.37	16.32	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.35	16.30	16.34	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.28	16.35	16.33	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.27	16.29	16.24	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.30	16.29	16.24	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.32	16.30	16.28	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.28	16.35	16.29	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.27	16.26	16.32	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.31	16.29	16.33	17.5	0.0

**Part27Q n78\_Ant 8 DSI 3**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.34			22.5	0.0
100	PI2 BPSK	1	137	21.09				
100	PI2 BPSK	1	211	21.33				
100	PI2 BPSK	135	0	20.76			22.5	0.0
100	PI2 BPSK	135	69	21.09			22.5	0.0
100	PI2 BPSK	135	138	20.70			22.5	0.0
100	PI2 BPSK	210	0	20.71				
100	QPSK	1	1	21.30				
100	QPSK	1	137	21.11			22.5	0.0
100	QPSK	1	211	21.25				
100	QPSK	135	0	21.22				
100	QPSK	135	69	21.08			22.5	0.0
100	QPSK	135	138	21.19				
100	QPSK	210	0	20.18			22.5	0.0
100	16QAM	1	1	20.07			22.5	0.0
100	64QAM	1	1	20.65			22.0	0.5
100	256QAM	1	1	19.21			20.0	2.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	21.27	21.29	21.28	22.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	21.14	21.19	21.18	22.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	21.20	21.19	21.16	22.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	21.14	21.13	21.13	22.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	21.18	21.19	21.18	22.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	21.16	21.15	21.13	22.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	21.15	21.21	21.21	22.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	21.16	21.16	21.21	22.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	21.21	21.18	21.20	22.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	21.11	21.22	21.18	22.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	21.21	21.14	21.15	22.5	0.0

**Part270 n78\_Ant 8 DSI 3**

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	21.24			22.5	0.0
100	PI2 BPSK	1	137	20.98				
100	PI2 BPSK	1	211	21.20				
100	PI2 BPSK	135	0	20.83			22.5	0.0
100	PI2 BPSK	135	69	21.08			22.5	0.0
100	PI2 BPSK	135	138	20.89			22.5	0.0
100	PI2 BPSK	210	0	20.86				
100	QPSK	1	1	21.14				
100	QPSK	1	137	21.01			22.5	0.0
100	QPSK	1	211	21.19				
100	QPSK	135	0	21.18				
100	QPSK	135	69	21.10			22.5	0.0
100	QPSK	135	138	21.05				
100	QPSK	210	0	20.38			22.5	0.0
100	16QAM	1	1	19.88			22.5	0.0
100	64QAM	1	1	20.46			22.0	0.5
100	256QAM	1	1	19.04			20.0	2.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	21.08	21.09	21.14	22.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	20.99	20.93	21.02	22.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	21.02	21.02	21.09	22.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	21.02	20.94	21.07	22.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	20.94	20.98	21.06	22.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	20.95	20.97	21.04	22.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	20.94	20.94	21.03	22.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	20.95	20.93	21.02	22.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	20.92	21.01	21.09	22.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	20.99	20.99	21.05	22.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	21.00	20.98	21.05	22.5	0.0



For DFT-15

n5_Ant 0 DSI 4									
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)									
20	PI2 BPSK	1	1	23.83	23.86	23.84			
20	PI2 BPSK	1	53	23.82	23.85	23.83	24.2	0.0	
20	PI2 BPSK	1	104	23.77	23.77	23.72			
20	PI2 BPSK	50	0	23.05	23.17	23.08	24.2	0.0	
20	PI2 BPSK	50	26	23.55	23.66	23.63	24.2	0.0	
20	PI2 BPSK	50	56	23.03	23.11	22.96	24.2	0.0	
20	PI2 BPSK	100	0	23.02	23.17	23.05			
20	QPSK	1	1	23.63	23.68	23.60			
20	QPSK	1	53	23.53	23.63	23.52	24.2	0.0	
20	QPSK	1	104	23.48	23.61	23.50			
20	QPSK	50	0	22.56	22.66	22.61	23.7	0.5	
20	QPSK	50	26	23.24	23.65	23.59	24.2	0.0	
20	QPSK	50	56	22.99	23.14	23.05	23.7	0.5	
20	QPSK	100	0	23.12	23.17	23.02			
20	16QAM	1	1	23.41	23.57	23.46	23.7	0.5	
20	64QAM	1	1	22.53	22.65	22.49	22.2	2.0	
20	256QAM	1	1	21.03	21.13	21.02	20.2	4.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	23.62	23.67	23.59	24.2	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	23.60	23.70	23.54	24.2	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	23.62	23.63	23.55	24.2	0.0	

n5_Ant 1 DSI 4									
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)									
20	PI2 BPSK	1	1	19.62	19.71	19.58			
20	PI2 BPSK	1	53	19.56	19.55	19.55	20.2	0.0	
20	PI2 BPSK	1	104	19.56	19.52	19.56			
20	PI2 BPSK	50	0	19.54	19.60	19.58	20.2	0.0	
20	PI2 BPSK	50	26	19.64	19.69	19.59	20.2	0.0	
20	PI2 BPSK	50	56	19.63	19.58	19.52	20.2	0.0	
20	PI2 BPSK	100	0	19.53	19.56	19.51			
20	QPSK	1	1	19.60	19.57	19.64			
20	QPSK	1	53	19.59	19.53	19.53	20.2	0.0	
20	QPSK	1	104	19.64	19.64	19.67			
20	QPSK	50	0	19.46	19.54	19.49	20.2	0.0	
20	QPSK	50	26	19.62	19.59	19.60	20.2	0.0	
20	QPSK	50	56	19.60	19.60	19.58	20.2	0.0	
20	QPSK	100	0	19.65	19.69	19.67			
20	16QAM	1	1	19.55	19.56	19.60	20.2	0.0	
20	64QAM	1	1	19.55	19.56	19.54	20.2	0.0	
20	256QAM	1	1	19.52	19.48	19.52	20.2	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	19.46	19.58	19.43	20.2	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	19.42	19.66	19.47	20.2	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	19.51	19.50	19.42	20.2	0.0	

n7_Ant 0 DSI 4									
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)									
50	PI2 BPSK	1	1	21.38	21.41	21.38			
50	PI2 BPSK	1	135	21.26	21.28	21.21	23.0	0.0	
50	PI2 BPSK	1	268	21.25	21.24	21.21			
50	PI2 BPSK	135	0	20.78	20.83	20.87	23.0	0.0	
50	PI2 BPSK	135	68	21.36	21.38	21.21	23.0	0.0	
50	PI2 BPSK	135	135	20.44	20.53	20.42	23.0	0.0	
50	PI2 BPSK	270	0	20.74	20.75	20.68			
50	QPSK	1	1	21.37	21.40	21.35			
50	QPSK	1	135	21.28	21.34	21.23	23.0	0.0	
50	QPSK	1	268	21.04	21.11	20.95			
50	QPSK	135	0	20.06	20.21	20.15	23.0	0.0	
50	QPSK	135	68	21.13	21.21	21.12	23.0	0.0	
50	QPSK	135	135	20.83	20.93	20.79	23.0	0.0	
50	QPSK	270	0	21.02	21.13	21.06			
50	16QAM	1	1	21.21	21.26	21.15	23.0	0.0	
50	64QAM	1	1	19.68	19.78	19.71	21.5	1.5	
50	256QAM	1	1	18.60	18.69	18.56	19.5	3.5	
Channel									
Frequency (MHz)									
40	PI2 BPSK	1	1	21.31	21.32	21.27	23.0	0.0	
Channel									
Frequency (MHz)									
30	PI2 BPSK	1	1	21.36	21.31	21.31	23.0	0.0	
Channel									
Frequency (MHz)									
25	PI2 BPSK	1	1	20.43	20.56	20.40	23.0	0.0	
Channel									
Frequency (MHz)									
20	PI2 BPSK	1	1	21.37	21.40	21.30	23.0	0.0	
Channel									
Frequency (MHz)									
15	PI2 BPSK	1	1	20.96	21.11	20.97	23.0	0.0	
Channel									
Frequency (MHz)									
10	PI2 BPSK	1	1	21.00	21.19	21.02	23.0	0.0	
Channel									
Frequency (MHz)									
5	PI2 BPSK	1	1	20.96	21.03	20.97	23.0	0.0	



n7_Ant 2 DSI 4										
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)										
50	PI2 BPSK	1	1	19.80	19.89	19.82				
50	PI2 BPSK	1	135	19.71	19.84	19.76	20.5	0.0		
50	PI2 BPSK	1	268	19.62	19.71	19.68				
50	PI2 BPSK	135	0	19.70	19.80	19.82	20.5	0.0		
50	PI2 BPSK	135	68	19.78	19.88	19.86	20.5	0.0		
50	PI2 BPSK	135	135	19.69	19.84	19.81	20.5	0.0		
50	PI2 BPSK	270	0	19.67	19.80	19.76				
50	QPSK	1	1	19.53	19.73	19.64				
50	QPSK	1	135	19.66	19.77	19.69	20.5	0.0		
50	QPSK	1	268	19.49	19.61	19.57				
50	QPSK	135	0	19.69	19.81	19.77	20.5	0.0		
50	QPSK	135	68	19.58	19.74	19.65	20.5	0.0		
50	QPSK	135	135	19.67	19.86	19.85	20.5	0.0		
50	QPSK	270	0	19.63	19.78	19.71				
50	16QAM	1	1	19.30	19.46	19.43	20.5	0.0		
50	16QAM	1	1	19.43	19.53	19.42	20.5	0.0		
50	256QAM	1	1	19.85	19.12	19.08	20.5	0.0		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	19.64	19.74	19.68	20.5	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	19.75	19.75	19.76	20.5	0.0		
Channel										
Frequency (MHz)										
25	PI2 BPSK	1	1	19.63	19.76	19.71	20.5	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	19.74	19.83	19.74	20.5	0.0		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	19.74	19.79	19.70	20.5	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	19.73	19.81	19.77	20.5	0.0		
Channel										
Frequency (MHz)										
5	PI2 BPSK	1	1	19.73	19.77	19.69	20.5	0.0		

n7_Ant 3 DSI 4										
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)										
50	PI2 BPSK	1	1	15.48	15.62	15.42				
50	PI2 BPSK	1	135	15.45	15.51	15.40	16.2	0.0		
50	PI2 BPSK	1	268	15.44	15.46	15.38				
50	PI2 BPSK	135	0	15.33	15.35	15.31	16.2	0.0		
50	PI2 BPSK	135	68	15.52	15.57	15.48	16.2	0.0		
50	PI2 BPSK	135	135	15.50	15.55	15.40	16.2	0.0		
50	PI2 BPSK	270	0	15.55	15.61	15.42				
50	QPSK	1	1	15.27	15.27	15.13				
50	QPSK	1	135	15.03	15.09	14.90	16.2	0.0		
50	QPSK	1	268	15.17	15.25	15.04				
50	QPSK	135	0	15.31	15.36	15.23	16.2	0.0		
50	QPSK	135	68	15.45	15.48	15.32	16.2	0.0		
50	QPSK	135	135	15.42	15.53	15.32	16.2	0.0		
50	QPSK	270	0	15.46	15.52	15.40				
50	16QAM	1	1	15.14	15.16	15.05	16.2	0.0		
50	16QAM	1	1	14.77	14.88	14.71	16.2	0.0		
50	256QAM	1	1	15.28	15.31	15.20	16.2	0.0		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	15.32	15.47	15.27	16.2	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	15.43	15.47	15.33	16.2	0.0		
Channel										
Frequency (MHz)										
25	PI2 BPSK	1	1	15.38	15.57	15.23	16.2	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	15.33	15.57	15.28	16.2	0.0		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	15.42	15.55	15.30	16.2	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	15.41	15.46	15.27	16.2	0.0		
Channel										
Frequency (MHz)										
5	PI2 BPSK	1	1	15.32	15.49	15.34	16.2	0.0		

n7_Ant 5 DSI 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										
Frequency (MHz)										
50	PI2 BPSK	1	1	12.90	13.01	12.95				
50	PI2 BPSK	1	135	12.85	12.92	12.89	14.0	0.0		
50	PI2 BPSK	1	268	12.80	12.91	12.90				
50	PI2 BPSK	135	0	12.80	12.88	12.85	14.0	0.0		
50	PI2 BPSK	135	68	12.85	12.96	12.90	14.0	0.0		
50	PI2 BPSK	135	135	12.84	12.96	12.87	14.0	0.0		
50	PI2 BPSK	270	0	12.82	12.95	12.93				
50	QPSK	1	1	12.64	12.82	12.74				
50	QPSK	1	135	12.49	12.67	12.66	14.0	0.0		
50	QPSK	1	268	12.63	12.79	12.79				
50	QPSK	135	0	12.61	12.78	12.76	14.0	0.0		
50	QPSK	135	68	12.76	12.92	12.83	14.0	0.0		
50	QPSK	135	135	12.85	12.99	12.93	14.0	0.0		
50	QPSK	270	0	12.78	12.84	12.85				
50	16QAM	1	1	12.63	12.77	12.72	14.0	0.0		
50	16QAM	1	1	12.32	12.46	12.45	14.0	0.0		
50	256QAM	1	1	12.72	12.92	12.91	14.0	0.0		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	12.75	12.93	12.87	14.0	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	12.85	12.93	12.84	14.0	0.0		
Channel										
Frequency (MHz)										
25	PI2 BPSK	1	1	12.77	12.93	12.89	14.0	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	12.84	12.89	12.90	14.0	0.0		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	12.83	12.89	12.90	14.0	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	12.80	12.96	12.89	14.0	0.0		
Channel										
Frequency (MHz)										
5	PI2 BPSK	1	1	12.78	12.94	12.85	14.0	0.0		



For DFT-30

n38_Ant 0 DSI 4									
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)									
40	P12 BPSK	1	1	20.75	20.76	20.74			
40	P12 BPSK	1	53	20.72	20.73	20.68	21.5	0.0	
40	P12 BPSK	1	104	20.54	20.56	20.52			
40	P12 BPSK	50	0	20.62	20.66	20.57	21.5	0.0	
40	P12 BPSK	50	26	20.63	20.70	20.59	21.5	0.0	
40	P12 BPSK	50	56	20.52	20.53	20.47	21.5	0.0	
40	P12 BPSK	100	0	20.56	20.61	20.52			
40	QPSK	1	1	20.62	20.72	20.53			
40	QPSK	1	53	20.54	20.58	20.37	21.5	0.0	
40	QPSK	1	104	20.44	20.52	20.40			
40	QPSK	50	0	20.51	20.56	20.44			
40	QPSK	50	26	20.59	20.61	20.40	21.5	0.0	
40	QPSK	50	56	20.46	20.48	20.27			
40	QPSK	100	0	20.54	20.56	20.38	21.5	0.0	
40	16QAM	1	1	20.41	20.47	20.33	21.5	0.0	
40	64QAM	1	1	19.97	20.06	19.86	21.5	0.0	
40	256QAM	1	1	18.84	18.76	18.54	19.5	2.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	20.59	20.62	20.65	21.5	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	20.66	20.66	20.59	21.5	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	20.60	20.60	20.62	21.5	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	20.66	20.63	20.62	21.5	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	20.60	20.70	20.68	21.5	0.0	

n38_Ant 2 DSI 4									
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)									
40	P12 BPSK	1	1	19.90	19.92	19.91			
40	P12 BPSK	1	53	19.85	19.87	19.84	20.5	0.0	
40	P12 BPSK	1	104	19.70	19.75	19.72			
40	P12 BPSK	50	0	19.68	19.72	19.71	20.5	0.0	
40	P12 BPSK	50	26	19.70	19.70	19.73	20.5	0.0	
40	P12 BPSK	50	56	19.60	19.69	19.63	20.5	0.0	
40	P12 BPSK	100	0	19.67	19.73	19.72			
40	QPSK	1	1	19.73	19.88	19.78			
40	QPSK	1	53	19.66	19.82	19.74	20.5	0.0	
40	QPSK	1	104	19.55	19.68	19.68			
40	QPSK	50	0	19.49	19.62	19.56			
40	QPSK	50	26	19.55	19.71	19.65	20.5	0.0	
40	QPSK	50	56	19.44	19.59	19.59			
40	QPSK	100	0	19.56	19.66	19.66	20.5	0.0	
40	16QAM	1	1	19.33	19.54	19.52	20.5	0.0	
40	64QAM	1	1	19.48	19.62	19.54	20.5	0.0	
40	256QAM	1	1	19.58	19.74	19.72	20.5	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	19.81	19.81	19.76	20.5	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	19.76	19.86	19.78	20.5	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	19.82	19.70	19.70	20.5	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	19.70	19.87	19.83	20.5	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	19.84	19.76	19.75	20.5	0.0	

n38_Ant 3 DSI 4									
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)									
40	P12 BPSK	1	1	16.54	16.65	16.57			
40	P12 BPSK	1	53	16.52	16.61	16.53	16.7	0.0	
40	P12 BPSK	1	104	16.50	16.63	16.50			
40	P12 BPSK	50	0	16.42	16.48	16.47	16.7	0.0	
40	P12 BPSK	50	26	16.54	16.60	16.57	16.7	0.0	
40	P12 BPSK	50	56	16.45	16.49	16.47	16.7	0.0	
40	P12 BPSK	100	0	16.46	16.49	16.47			
40	QPSK	1	1	16.41	16.53	16.44			
40	QPSK	1	53	16.39	16.55	16.53	16.7	0.0	
40	QPSK	1	104	16.32	16.52	16.50			
40	QPSK	50	0	16.36	16.46	16.37			
40	QPSK	50	26	16.37	16.50	16.52	16.7	0.0	
40	QPSK	50	56	16.33	16.45	16.38			
40	QPSK	100	0	16.24	16.44	16.36	16.7	0.0	
40	16QAM	1	1	16.16	16.31	16.25	16.7	0.0	
40	64QAM	1	1	16.17	16.35	16.27	16.7	0.0	
40	256QAM	1	1	16.26	16.39	16.35	16.7	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	16.42	16.54	16.48	16.7	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	16.42	16.49	16.47	16.7	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	16.43	16.53	16.52	16.7	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	16.45	16.55	16.50	16.7	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	16.40	16.52	16.46	16.7	0.0	



n38_Ant 5 DSI 4									
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)									
40	P12 BPSK	1	1	12.85	13.06	12.92			
40	P12 BPSK	1	53	12.78	12.90	12.82	14.0	0.0	
40	P12 BPSK	1	104	12.76	12.85	12.79			
40	P12 BPSK	50	0	12.78	12.83	12.81	14.0	0.0	
40	P12 BPSK	50	26	12.79	12.85	12.82	14.0	0.0	
40	P12 BPSK	50	56	12.89	12.74	12.71			
40	P12 BPSK	100	0	12.74	12.77	12.75	14.0	0.0	
40	QPSK	1	1	12.73	12.81	12.87			
40	QPSK	1	53	12.77	12.88	12.78	14.0	0.0	
40	QPSK	1	104	12.83	12.85	12.80			
40	QPSK	50	0	12.87	12.78	12.85	14.0	0.0	
40	QPSK	50	26	12.83	12.77	12.84	14.0	0.0	
40	QPSK	50	56	12.64	12.72	12.59			
40	QPSK	100	0	12.70	12.77	12.71	14.0	0.0	
40	16QAM	1	1	12.58	12.73	12.63	14.0	0.0	
40	64QAM	1	1	12.32	12.44	12.28	14.0	0.0	
40	256QAM	1	1	12.81	12.92	12.77	14.0	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	12.73	13.00	12.77	14.0	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	12.74	12.97	12.79	14.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	12.83	12.94	12.83	14.0	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	12.79	12.94	12.79	14.0	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	12.74	12.92	12.87	14.0	0.0	

Part27Q n78_Ant 4 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1		13.48				
100	P12 BPSK	1	137		13.33		14.0	0.0	
100	P12 BPSK	1	271		13.16				
100	P12 BPSK	135	0		13.44		14.0	0.0	
100	P12 BPSK	135	69		13.46		14.0	0.0	
100	P12 BPSK	135	138		13.24		14.0	0.0	
100	P12 BPSK	270	0		13.39		14.0	0.0	
100	QPSK	1	1		13.11				
100	QPSK	1	137		13.06		14.0	0.0	
100	QPSK	1	271		13.14				
100	QPSK	135	0		13.42		14.0	0.0	
100	QPSK	135	69		13.37		14.0	0.0	
100	QPSK	135	138		13.22		14.0	0.0	
100	QPSK	270	0		13.32		14.0	0.0	
100	16QAM	1	1		13.09		14.0	0.0	
100	64QAM	1	1		13.13		14.0	0.0	
100	256QAM	1	1		13.45		14.0	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	13.40	13.42	13.35	14.0	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	13.34	13.28	13.20	14.0	0.0	
Channel									
Frequency (MHz)									
70	P12 BPSK	1	1	13.25	13.24	13.22	14.0	0.0	
Channel									
Frequency (MHz)									
60	P12 BPSK	1	1	13.20	13.35	13.22	14.0	0.0	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	13.26	13.27	13.23	14.0	0.0	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	13.32	13.28	13.28	14.0	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	13.34	13.30	13.24	14.0	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	13.32	13.35	13.23	14.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	13.27	13.31	13.21	14.0	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	13.30	13.35	13.21	14.0	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	13.29	13.31	13.20	14.0	0.0	

Part270 n78_Ant 4 DSI 4									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	P12 BPSK	1	1		13.18				
100	P12 BPSK	1	137		13.11		14.0	0.0	
100	P12 BPSK	1	271		13.04				
100	P12 BPSK	135	0		13.13		14.0	0.0	
100	P12 BPSK	135	69		13.14		14.0	0.0	
100	P12 BPSK	135	138		13.11		14.0	0.0	
100	P12 BPSK	270	0		13.12		14.0	0.0	
100	QPSK	1	1		12.95				
100	QPSK	1	137		13.13		14.0	0.0	
100	QPSK	1	271		13.03				
100	QPSK	135	0		13.14		14.0	0.0	
100	QPSK	135	69		13.15		14.0	0.0	
100	QPSK	135	138		13.09		14.0	0.0	
100	QPSK	270	0		13.13		14.0	0.0	
100	16QAM	1	1		12.80		14.0	0.0	
100	64QAM	1	1		12.78		14.0	0.0	
100	256QAM	1	1		12.85		14.0	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	13.10	13.12	13.05	14.0	0.0	
Channel									
Frequency (MHz)									
80	P12 BPSK	1	1	13.04	12.96	12.95	14.0	0.0	
Channel									
Frequency (MHz)									
70	P12 BPSK	1	1	12.90	12.87	12.89	14.0	0.0	
Channel									
Frequency (MHz)									
60	P12 BPSK	1	1	12.85	13.07	12.81	14.0	0.0	
Channel									
Frequency (MHz)									
50	P12 BPSK	1	1	13.05	13.01	12.97	14.0	0.0	
Channel									
Frequency (MHz)									
40	P12 BPSK	1	1	13.03	12.98	12.98	14.0	0.0	
Channel									
Frequency (MHz)									
30	P12 BPSK	1	1	12.99	13.02	12.92	14.0	0.0	
Channel									
Frequency (MHz)									
25	P12 BPSK	1	1	12.90	13.01	12.90	14.0	0.0	
Channel									
Frequency (MHz)									
20	P12 BPSK	1	1	12.94	12.97	12.97	14.0	0.0	
Channel									
Frequency (MHz)									
15	P12 BPSK	1	1	12.97	12.99	12.97	14.0	0.0	
Channel									
Frequency (MHz)									
10	P12 BPSK	1	1	12.98	13.00	12.93	14.0	0.0	



**Part27Q n78\_Ant 6 DSI 4**

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	14.06				
100	Pi2 BPSK	1	137	13.95			15.0	0.0
100	Pi2 BPSK	1	211	13.85				
100	Pi2 BPSK	135	0	13.83			15.0	0.0
100	Pi2 BPSK	135	69	14.06			15.0	0.0
100	Pi2 BPSK	135	138	13.82			15.0	0.0
100	Pi2 BPSK	270	0	14.02				
100	QPSK	1	1	13.91				
100	QPSK	1	137	13.93			15.0	0.0
100	QPSK	1	211	13.76				
100	QPSK	135	0	14.02				
100	QPSK	135	69	13.96			15.0	0.0
100	QPSK	135	138	13.84				
100	QPSK	270	0	13.96			15.0	0.0
100	16QAM	1	1	13.75			15.0	0.0
100	64QAM	1	1	13.74			15.0	0.0
100	256QAM	1	1	13.82			15.0	0.0
Channel								
Frequency (MHz)								
63000	63334	63666						
3495	3500.01	3504.99						
90	Pi2 BPSK	1	1	13.95	13.96	13.90	15.0	0.0
Channel								
Frequency (MHz)								
63006	63334	63400						
3480.02	3500.01	3510						
80	Pi2 BPSK	1	1	13.80	13.86	13.80	15.0	0.0
Channel								
Frequency (MHz)								
63034	63334	63432						
3485.01	3500.01	3514.98						
70	Pi2 BPSK	1	1	13.80	13.82	13.74	15.0	0.0
Channel								
Frequency (MHz)								
63000	63334	63466						
3480	3500.01	3519.99						
60	Pi2 BPSK	1	1	13.80	13.92	13.77	15.0	0.0
Channel								
Frequency (MHz)								
63000	63334	63500						
3475.02	3500.01	3505						
50	Pi2 BPSK	1	1	13.83	13.82	13.77	15.0	0.0
Channel								
Frequency (MHz)								
63134	63334	63532						
3470.01	3500.01	3509.98						
40	Pi2 BPSK	1	1	13.87	13.86	13.82	15.0	0.0
Channel								
Frequency (MHz)								
63100	63334	63596						
3465	3500.01	3514.98						
30	Pi2 BPSK	1	1	13.75	13.84	13.75	15.0	0.0
Channel								
Frequency (MHz)								
63034	63334	63632						
3462.01	3500.01	3517.48						
20	Pi2 BPSK	1	1	13.87	13.87	13.85	15.0	0.0
Channel								
Frequency (MHz)								
63066	63334	63600						
3460.02	3500.01	3540						
20	Pi2 BPSK	1	1	13.88	13.82	13.77	15.0	0.0
Channel								
Frequency (MHz)								
63000	63334	63666						
3457.5	3500.01	3542.49						
15	Pi2 BPSK	1	1	13.85	13.85	13.77	15.0	0.0
Channel								
Frequency (MHz)								
63034	63334	63632						
3455.01	3500.01	3544.98						
10	Pi2 BPSK	1	1	13.80	13.84	13.85	15.0	0.0

**Part27Q n78\_Ant 6 DSI 4**

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	13.95				
100	Pi2 BPSK	1	137	13.88			15.0	0.0
100	Pi2 BPSK	1	211	13.78				
100	Pi2 BPSK	135	0	13.93			15.0	0.0
100	Pi2 BPSK	135	69	13.94			15.0	0.0
100	Pi2 BPSK	135	138	13.87			15.0	0.0
100	Pi2 BPSK	270	0	13.92				
100	QPSK	1	1	13.79				
100	QPSK	1	137	13.86			15.0	0.0
100	QPSK	1	211	13.76				
100	QPSK	135	0	13.91				
100	QPSK	135	69	13.85			15.0	0.0
100	QPSK	135	138	13.87				
100	QPSK	270	0	13.92			15.0	0.0
100	16QAM	1	1	13.84			15.0	0.0
100	64QAM	1	1	13.86			15.0	0.0
100	256QAM	1	1	13.70			15.0	0.0
Channel								
Frequency (MHz)								
64666	65000	65332						
3745.02	3750	3754.98						
90	Pi2 BPSK	1	1	13.88	13.82	13.86	15.0	0.0
Channel								
Frequency (MHz)								
64934	65000	65066						
3740.01	3750	3759.99						
80	Pi2 BPSK	1	1	13.83	13.77	13.72	15.0	0.0
Channel								
Frequency (MHz)								
64900	65000	65100						
3735	3750	3765						
70	Pi2 BPSK	1	1	13.75	13.81	13.74	15.0	0.0
Channel								
Frequency (MHz)								
64866	65000	65132						
3730.02	3750	3769.98						
60	Pi2 BPSK	1	1	13.70	13.77	13.80	15.0	0.0
Channel								
Frequency (MHz)								
64900	65000	65200						
3725.01	3750	3774.99						
50	Pi2 BPSK	1	1	13.78	13.83	13.73	15.0	0.0
Channel								
Frequency (MHz)								
64800	65000	65300						
3720	3750	3780						
40	Pi2 BPSK	1	1	13.80	13.83	13.80	15.0	0.0
Channel								
Frequency (MHz)								
64766	65000	65232						
3715.02	3750	3784.98						
30	Pi2 BPSK	1	1	13.72	13.80	13.70	15.0	0.0
Channel								
Frequency (MHz)								
64700	65000	65200						
3710.01	3750	3789.99						
20	Pi2 BPSK	1	1	13.70	13.78	13.70	15.0	0.0
Channel								
Frequency (MHz)								
64766	65000	65232						
3707.52	3750	3792.48						
15	Pi2 BPSK	1	1	13.78	13.86	13.72	15.0	0.0
Channel								
Frequency (MHz)								
64700	65000	65300						
3705	3750	3795						
10	Pi2 BPSK	1	1	13.81	13.77	13.70	15.0	0.0

**Part27Q n78\_Ant 7 DSI 4**

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	13.17				
100	Pi2 BPSK	1	137	12.96			14.0	0.0
100	Pi2 BPSK	1	211	12.92				
100	Pi2 BPSK	135	0	13.08			14.0	0.0
100	Pi2 BPSK	135	69	13.12			14.0	0.0
100	Pi2 BPSK	135	138	12.84			14.0	0.0
100	Pi2 BPSK	270	0	13.07				
100	QPSK	1	1	13.12				
100	QPSK	1	137	13.02			14.0	0.0
100	QPSK	1	211	12.76				
100	QPSK	135	0	13.14				
100	QPSK	135	69	13.02			14.0	0.0
100	QPSK	135	138	12.93				
100	QPSK	270	0	13.04			14.0	0.0
100	16QAM	1	1	12.85			14.0	0.0
100	64QAM	1	1	12.92			14.0	0.0
100	256QAM	1	1	12.90			14.0	0.0
Channel								
Frequency (MHz)								
63000	63334	63666						
3495	3500.01	3504.99						
90	Pi2 BPSK	1	1	13.02	13.10	12.95	14.0	0.0
Channel								
Frequency (MHz)								
63068	63334	63400						
3480.02	3500.01	3510						
80	Pi2 BPSK	1	1	12.93	13.03	12.90	14.0	0.0
Channel								
Frequency (MHz)								
63034	63334	63432						
3485.01	3500.01	3514.98						
70	Pi2 BPSK	1	1	12.95	12.99	12.83	14.0	0.0
Channel								
Frequency (MHz)								
63000	63334	63466						
3480	3500.01	3519.99						
60	Pi2 BPSK	1	1	12.95	12.95	12.84	14.0	0.0
Channel								
Frequency (MHz)								
63000	63334	63500						
3475.02	3500.01	3505						
50	Pi2 BPSK	1	1	12.95	13.00	12.85	14.0	0.0
Channel								
Frequency (MHz)								
63134	63334	63532						
3470.01	3500.01	3509.98						
40	Pi2 BPSK	1	1	12.88	13.02	12.84	14.0	0.0
Channel								
Frequency (MHz)								
63100	63334	63596						
3465	3500.01	3514.98						
30	Pi2 BPSK	1	1	12.85	12.94	12.80	14.0	0.0
Channel								
Frequency (MHz)								
63034	63334	63632						
3462.01	3500.01	3517.48						
25	Pi2 BPSK	1	1	12.97	13.02	12.79	14.0	0.0
Channel								
Frequency (MHz)								
63066	63334	63600						
3460.02	3500.01	3540						
20	Pi2 BPSK	1	1	12.84	13.02	12.86	14.0	0.0
Channel								
Frequency (MHz)								
63000	63334	63666						
3457.5	3500.01	3542.49						
15	Pi2 BPSK	1	1	12.89	13.06	12.82	14.0	0.0
Channel								
Frequency (MHz)								
63034	63334	63632						
3455.01	3500.01	3544.98						
10	Pi2 BPSK	1	1	12.92	13.00	12.80	14.0	0.0



### Part270 n78\_Ant 7 DSI 4

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	12.97			14.0	0.0
100	PI2 BPSK	1	137	12.92				
100	PI2 BPSK	1	271	12.82				
100	PI2 BPSK	135	0	12.92			14.0	0.0
100	PI2 BPSK	135	69	12.95			14.0	0.0
100	PI2 BPSK	135	138	12.91			14.0	0.0
100	PI2 BPSK	270	0	12.92				
100	QPSK	1	1	12.82				
100	QPSK	1	137	12.92			14.0	0.0
100	QPSK	1	271	12.78				
100	QPSK	135	0	12.96				
100	QPSK	135	69	12.92			14.0	0.0
100	QPSK	135	138	12.92				
100	QPSK	270	0	12.83			14.0	0.0
100	16QAM	1	1	12.92			14.0	0.0
100	16QAM	1	1	12.81			14.0	0.0
100	256QAM	1	1	12.58			14.0	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	12.88	12.92	12.82	14.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	12.82	12.85	12.71	14.0	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	12.59	12.84	12.75	14.0	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	12.76	12.85	12.71	14.0	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	12.79	12.85	12.74	14.0	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	12.74	12.83	12.66	14.0	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	12.75	12.79	12.72	14.0	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	12.50	12.78	12.70	14.0	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	12.81	12.83	12.73	14.0	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	12.81	12.76	12.72	14.0	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	12.80	12.79	12.75	14.0	0.0

### Part27Q n78\_Ant 8 DSI 4

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	16.36			17.5	0.0
100	PI2 BPSK	1	137	16.21				
100	PI2 BPSK	1	271	16.01				
100	PI2 BPSK	135	0	16.21			17.5	0.0
100	PI2 BPSK	135	69	16.25			17.5	0.0
100	PI2 BPSK	135	138	16.03			17.5	0.0
100	PI2 BPSK	270	0	16.16				
100	QPSK	1	1	16.24				
100	QPSK	1	137	16.21			17.5	0.0
100	QPSK	1	271	15.98				
100	QPSK	135	0	16.33				
100	QPSK	135	69	16.24			17.5	0.0
100	QPSK	135	138	16.04				
100	QPSK	270	0	16.24			17.5	0.0
100	16QAM	1	1	15.98			17.5	0.0
100	16QAM	1	1	20.01			17.5	0.0
100	256QAM	1	1	16.21			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	16.28	16.32	16.25	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	16.23	16.21	16.16	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	16.12	16.20	16.19	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	16.20	16.17	16.11	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	16.23	16.20	16.19	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	16.14	16.16	16.20	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	16.21	16.22	16.11	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	16.18	16.26	16.09	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	16.19	16.17	16.09	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	16.15	16.21	16.13	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	16.18	16.21	16.17	17.5	0.0

### Part270 n78\_Ant 8 DSI 4

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	16.23			17.5	0.0
100	PI2 BPSK	1	137	16.09				
100	PI2 BPSK	1	271	15.85				
100	PI2 BPSK	135	0	15.95			17.5	0.0
100	PI2 BPSK	135	69	16.20			17.5	0.0
100	PI2 BPSK	135	138	15.86			17.5	0.0
100	PI2 BPSK	270	0	16.16				
100	QPSK	1	1	15.75				
100	QPSK	1	137	15.88			17.5	0.0
100	QPSK	1	271	15.82				
100	QPSK	135	0	15.91				
100	QPSK	135	69	15.93			17.5	0.0
100	QPSK	135	138	15.87				
100	QPSK	270	0	15.94			17.5	0.0
100	16QAM	1	1	15.85			17.5	0.0
100	16QAM	1	1	15.83			17.5	0.0
100	256QAM	1	1	15.82			17.5	0.0
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	15.91	15.95	15.86	17.5	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	15.86	15.89	15.73	17.5	0.0
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	15.71	15.79	15.70	17.5	0.0
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	15.85	15.90	15.76	17.5	0.0
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	15.80	15.90	15.81	17.5	0.0
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	15.75	15.83	15.78	17.5	0.0
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	15.79	15.84	15.70	17.5	0.0
Channel								
Frequency (MHz)								
25	PI2 BPSK	1	1	15.83	15.82	15.75	17.5	0.0
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	15.79	15.86	15.74	17.5	0.0
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	15.75	15.84	15.77	17.5	0.0
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	15.75	15.85	15.80	17.5	0.0



Other\_PA Full Power level/Default Power level for WWAN-EMDC

Table for Band 4\_Ant 0 with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Tx/Freq., Power Ch./Rx/Freq., High Ch./Tx/Freq., High Ch./Rx/Freq., Turn-on (sec), MPR (dB), Channel, Frequency (MHz), and various power level entries.

Table for Band 4\_Ant 5 with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Tx/Freq., Power Ch./Rx/Freq., High Ch./Tx/Freq., High Ch./Rx/Freq., Turn-on (sec), MPR (dB), Channel, Frequency (MHz), and various power level entries.

Table for Band 7\_Ant 0 with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Tx/Freq., Power Ch./Rx/Freq., High Ch./Tx/Freq., High Ch./Rx/Freq., Turn-on (sec), MPR (dB), Channel, Frequency (MHz), and various power level entries.

Table for Band 7\_Ant 2 with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Ch./Tx/Freq., Power Ch./Rx/Freq., High Ch./Tx/Freq., High Ch./Rx/Freq., Turn-on (sec), MPR (dB), Channel, Frequency (MHz), and various power level entries.



Band 7_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (sec/edf)	MFR (dB)		
Channel										
Frequency (MHz)				2502.5	2505	2507.5				
20	QPSK	1	0	22.19	22.23	22.28		23.5	0	
20	QPSK	1	49	22.11	22.12	22.13				
20	QPSK	1	99	22.03	22.10	22.05				
20	QPSK	1	0	21.08	21.12	21.08				
20	QPSK	50	24	21.07	21.08	21.07				
20	QPSK	50	50	20.93	20.96	20.92		22.5	1	
20	QPSK	100	0	20.99	21.03	20.97				
20	16QAM	1	0	21.07	21.13	21.08				
20	16QAM	1	49	21.01	21.14	21.07		22.5	1	
20	16QAM	1	99	21.04	21.10	21.04				
20	16QAM	50	0	20.95	20.18	20.92				
20	16QAM	50	24	20.97	20.19	20.97		21.5	2	
20	16QAM	50	50	20.84	20.97	20.86				
20	16QAM	100	0	20.97	20.13	20.95				
20	16QAM	1	0	20.11	20.26	20.20		21.5	2	
20	16QAM	1	49	20.18	20.26	20.18				
20	16QAM	1	99	20.30	20.29	20.25				
20	16QAM	50	0	19.96	19.21	19.18				
20	16QAM	50	24	19.13	19.32	19.07		20.5	3	
20	16QAM	50	50	19.12	19.24	19.14				
20	16QAM	100	0	19.01	19.19	19.07				
20	16QAM	1	0	17.06	17.23	16.92				
20	16QAM	1	49	17.00	17.19	17.01		18.5	5	
20	16QAM	1	99	17.16	17.28	17.07				
20	16QAM	50	0	17.01	17.16	17.07				
20	16QAM	50	24	16.98	17.18	17.00		18.5	5	
20	16QAM	50	50	17.05	17.15	16.99				
20	16QAM	100	0	17.00	17.17	16.95				
Channel										
Frequency (MHz)				2502.5	2505	2507.5	Time-up (sec/edf)	MFR (dB)		
15	QPSK	1	0	22.02	22.03	22.02		23.5	0	
15	QPSK	1	37	21.97	21.92	21.97				
15	QPSK	1	74	22.22	21.99	22.11				
15	QPSK	36	0	21.93	21.93	21.93				
15	QPSK	36	20	21.22	21.07	21.15		22.5	1	
15	QPSK	36	38	21.19	21.02	21.23				
15	QPSK	75	0	21.13	21.06	21.09				
15	16QAM	1	0	21.14	21.20	21.03		22.5	1	
15	16QAM	1	37	21.11	21.22	21.21				
15	16QAM	1	74	21.13	21.26	21.08				
15	16QAM	36	0	19.95	20.13	19.95		21.5	2	
15	16QAM	36	20	19.99	20.09	19.91				
15	16QAM	36	38	19.93	19.92	19.93				
15	16QAM	75	0	19.95	20.02	19.98				
15	16QAM	1	0	19.96	20.17	20.13		21.5	2	
15	16QAM	1	37	19.98	20.15	20.15				
15	16QAM	1	74	20.08	20.20	20.08				
15	16QAM	36	0	18.91	18.16	18.92		20.5	3	
15	16QAM	36	20	18.91	18.18	18.92				
15	16QAM	36	38	18.87	18.18	18.92				
15	16QAM	75	0	18.92	18.04	18.99				
15	16QAM	1	0	18.93	17.14	18.93		18.5	5	
15	16QAM	1	37	18.89	17.03	18.84				
15	16QAM	1	74	17.94	17.10	18.91				
15	16QAM	36	0	18.95	18.08	18.90				
15	16QAM	36	20	18.93	17.10	18.84		18.5	5	
15	16QAM	36	38	18.93	18.99	18.92				
15	16QAM	75	0	18.94	17.08	18.92				
Channel										
Frequency (MHz)				2502.5	2505	2507.5	Time-up (sec/edf)	MFR (dB)		
10	QPSK	1	0	22.08	22.03	22.02		23.5	0	
10	QPSK	1	25	21.98	21.97	22.02				
10	QPSK	1	49	22.00	22.03	22.20				
10	QPSK	25	0	21.18	21.07	21.08				
10	QPSK	25	12	21.20	21.05	21.22		22.5	1	
10	QPSK	25	25	21.21	21.01	21.20				
10	QPSK	50	0	21.16	21.08	21.18				
10	16QAM	1	0	21.22	21.28	21.05		22.5	1	
10	16QAM	1	25	21.09	21.18	21.22				
10	16QAM	1	49	21.09	21.28	21.22				
10	16QAM	25	0	19.97	20.03	19.92		21.5	2	
10	16QAM	25	12	19.99	20.14	19.94				
10	16QAM	25	25	20.10	20.18	20.08				
10	16QAM	50	0	20.02	19.97	19.92				
10	16QAM	1	0	20.05	20.20	20.04		21.5	2	
10	16QAM	1	25	20.05	20.23	20.04				
10	16QAM	1	49	20.12	20.16	20.13		20.5	3	
10	16QAM	25	0	18.92	18.93	18.91				
10	16QAM	25	12	17.00	17.14	18.92				
10	16QAM	25	25	18.84	17.14	18.95		18.5	5	
10	16QAM	1	0	17.06	17.11	17.01				
10	16QAM	25	0	18.89	17.03	18.88				
10	16QAM	25	12	18.89	17.13	18.86		18.5	5	
10	16QAM	25	25	18.94	18.07	18.91				
10	16QAM	50	0	18.95	17.11	18.95				
Channel										
Frequency (MHz)				2507.5	25100	25125	Time-up (sec/edf)	MFR (dB)		
5	QPSK	1	0	22.09	21.99	21.99		23.5	0	
5	QPSK	1	12	22.17	22.07	22.20				
5	QPSK	1	24	22.09	22.09	22.17				
5	QPSK	12	0	21.18	21.07	21.07				
5	QPSK	12	7	21.11	20.88	21.20		22.5	1	
5	QPSK	12	13	21.25	21.08	21.19				
5	QPSK	25	0	21.19	20.97	21.12				
5	16QAM	1	0	21.20	21.28	21.08		22.5	1	
5	16QAM	1	12	21.10	21.23	21.13				
5	16QAM	1	24	21.14	21.20	21.10				
5	16QAM	12	0	19.94	20.06	19.95		21.5	2	
5	16QAM	12	7	19.92	20.05	19.94				
5	16QAM	12	13	20.03	20.22	20.00				
5	16QAM	25	0	19.99	20.05	19.92				
5	16QAM	1	0	19.98	20.18	20.18		21.5	2	
5	16QAM	1	12	20.04	20.17	20.02				
5	16QAM	1	24	20.08	20.13	20.10				
5	16QAM	12	0	18.99	18.10	18.11		20.5	3	
5	16QAM	12	7	18.96	18.09	18.99				
5	16QAM	12	13	19.05	18.12	18.98				
5	16QAM	25	0	18.99	18.90	18.91				
5	16QAM	1	0	18.90	17.12	18.92		18.5	5	
5	16QAM	1	12	18.86	17.10	18.94				
5	16QAM	1	24	17.00	17.10	18.97				
5	16QAM	12	0	18.97	17.08	18.95				
5	16QAM	12	7	18.93	17.10	18.92		18.5	5	
5	16QAM	12	13	18.98	17.00	18.94				
5	16QAM	25	0	18.91	17.02	18.95				

Band 7_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Time-up (sec/edf)	MFR (dB)		
Channel										
Frequency (MHz)				2507.5	2510	25125	Time-up (sec/edf)	MFR (dB)		
20	QPSK	1	0	23.94	24.05	24.04		25	0	
20	QPSK	1	49	23.86	24.03	24.02				
20	QPSK	1	99	23.91	23.95	23.94		24	1	
20	QPSK	50	0	23.87	23.98	23.91				
20	QPSK	50	24	23.82	23.98	23.91		24	1	
20	QPSK	50	50	23.81	23.90	23.86				
20	QPSK	100	0	23.86	23.95	23.89				
20	16QAM	1	0	23.80	23.91	23.85		24	1	
20	16QAM	1	49	23.77	23.83	23.89				
20	16QAM	1	99	23.71	23.89	23.87				
20	16QAM	50	0	23.66	23.85	23.74		23	2	
20	16QAM	50	24	23.68	23.83	23.84				
20	16QAM	50	50	23.76	23.89	23.86				
20	16QAM	100	0	23.65	23.82	23.71				
20	16QAM	1	0	23.69	23.83	23.89		23	2	
20	16QAM	1	49	23.77	23.82	23.89				
20	16QAM	1	99	23.69	23.87	23.79				
20	16QAM	50	0	21.86	21.88	21.78		22	3	
20	16QAM	50	24	21.72	21.88	21.84				
20	16QAM	50	50	21.87	21.83	21.78				
20	16QAM	100	0	21.87	21.83	21.78				
20	16QAM	1	0	18.76	18.83	18.76		20	5	
20	16QAM	1	49	18.83	18.84	18.76				
20	16QAM	1	99	18.79	18.96	18.80				
20	16QAM	50	0	18.83	18.83	18.81				
20	16QAM	50	24	18.76	18.83	18.76		20	5	
20	16QAM	50	50	18.71	18.92	18.72				
20	16QAM	100	0	18.76	18.83	18.83				
Channel										
Frequency (MHz)				2507.5	2510	25125	Time-up (sec/edf)	MFR (dB)		
15	QPSK	1	0	23.92	23.99	23.99		25	0	
15	QPSK	1	37	23.74	23.					



Reduced power level for WWAN-ENC DS10

Table for Band 4\_Ant 0. Columns include BW (MHz), Modulation, RBW, RBDF, Power (Ch./Tx/Freq), Power (Ch./Rx/Freq), Power (Ch./Tx/Freq), Turn-on time (min), MPR (dB), and MPR (dB). Rows list various channel configurations for frequencies 1712.5 to 1762.5 MHz.

Table for Band 4\_Ant 5. Columns include BW (MHz), Modulation, RBW, RBDF, Power (Ch./Tx/Freq), Power (Ch./Rx/Freq), Power (Ch./Tx/Freq), Turn-on time (min), MPR (dB), and MPR (dB). Rows list various channel configurations for frequencies 1712.5 to 1762.5 MHz.

Table for Band 7\_Ant 0. Columns include BW (MHz), Modulation, RBW, RBDF, Power (Ch./Tx/Freq), Power (Ch./Rx/Freq), Power (Ch./Tx/Freq), Turn-on time (min), MPR (dB), and MPR (dB). Rows list various channel configurations for frequencies 2302.5 to 2352.5 MHz.

Table for Band 7\_Ant 2. Columns include BW (MHz), Modulation, RBW, RBDF, Power (Ch./Tx/Freq), Power (Ch./Rx/Freq), Power (Ch./Tx/Freq), Turn-on time (min), MPR (dB), and MPR (dB). Rows list various channel configurations for frequencies 2302.5 to 2352.5 MHz.



Band 7_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch. 1 (Frac)	Power Level Ch. 2 (Frac)	Power Level Ch. 3 (Frac)	Time-up (dBm)	MFR (dB)		
Channel				2500	2100	2100				
Frequency (MHz)										
20	QPSK	1	0	14.36	14.10	14.55				
20	QPSK	1	49	14.55	14.59	14.53	16	0		
20	QPSK	1	98	14.55	14.52	14.58				
20	QPSK	50	0	14.86	14.61	14.54				
20	QPSK	50	24	14.50	14.54	14.50	16	0		
20	QPSK	50	24	14.50	14.52	14.52				
20	QPSK	100	0	14.36	14.55	14.52				
20	16QAM	1	0	14.55	14.54	14.55				
20	16QAM	1	49	14.50	14.45	14.47	16	0		
20	16QAM	1	98	14.55	14.56	14.57				
20	16QAM	50	0	14.52	14.51	14.53				
20	16QAM	50	24	14.50	14.52	14.52	16	0		
20	16QAM	50	24	14.50	14.54	14.49				
20	16QAM	100	0	14.80	14.84	14.83				
20	16QAM	1	0	14.55	14.54	14.53				
20	16QAM	1	49	14.50	14.56	14.57	16	0		
20	16QAM	1	98	14.55	14.50	14.50				
20	16QAM	50	0	14.51	14.54	14.50				
20	16QAM	50	24	14.57	14.53	14.52	16	0		
20	16QAM	50	24	14.50	14.53	14.53				
20	16QAM	100	0	14.50	14.55	14.55				
20	256QAM	1	0	14.65	14.60	14.60				
20	256QAM	1	49	14.61	14.61	14.61	16	0		
20	256QAM	1	98	14.53	14.57	14.60				
20	256QAM	50	0	14.38	14.51	14.55				
20	256QAM	50	24	14.50	14.52	14.52	16	0		
20	256QAM	50	24	14.50	14.54	14.54				
20	256QAM	100	0	14.35	14.54	14.53				
Channel				2507.5	2035	2032.5				
Frequency (MHz)										
15	QPSK	1	0	14.48	14.52	14.50				
15	QPSK	1	37	14.45	14.49	14.42	16	0		
15	QPSK	1	74	14.41	14.41	14.37				
15	QPSK	36	0	14.42	14.47	14.41				
15	QPSK	36	20	14.42	14.43	14.38	16	0		
15	QPSK	36	36	14.45	14.48	14.45				
15	QPSK	75	0	14.37	14.33	14.38				
15	16QAM	1	0	14.53	14.42	14.38				
15	16QAM	1	37	14.50	14.50	14.45	16	0		
15	16QAM	1	74	14.46	14.41	14.42				
15	16QAM	36	0	14.48	14.52	14.45				
15	16QAM	36	20	14.41	14.40	14.45	16	0		
15	16QAM	36	36	14.34	14.37	14.30				
15	16QAM	75	0	14.40	14.40	14.40				
15	16QAM	1	0	14.45	14.46	14.38				
15	16QAM	1	37	14.42	14.44	14.45	16	0		
15	16QAM	1	74	14.45	14.40	14.35				
15	16QAM	36	0	14.45	14.39	14.32				
15	16QAM	36	20	14.46	14.44	14.42	16	0		
15	16QAM	36	36	14.48	14.43	14.43				
15	16QAM	75	0	14.35	14.45	14.35				
15	256QAM	1	0	14.58	14.54	14.43				
15	256QAM	1	37	14.48	14.56	14.56	16	0		
15	256QAM	1	74	14.40	14.45	14.43				
15	256QAM	36	0	14.45	14.43	14.39				
15	256QAM	36	20	14.37	14.40	14.40	16	0		
15	256QAM	36	36	14.40	14.40	14.42				
15	256QAM	75	0	14.39	14.43	14.43				
Channel				2505	2035	2035				
Frequency (MHz)										
10	QPSK	1	0	14.51	14.55	14.46				
10	QPSK	1	20	14.58	14.49	14.48	16	0		
10	QPSK	1	40	14.53	14.53	14.48				
10	QPSK	25	0	14.46	14.48	14.46				
10	QPSK	25	12	14.38	14.40	14.40	16	0		
10	QPSK	25	24	14.42	14.47	14.41				
10	QPSK	50	0	14.36	14.48	14.42				
10	16QAM	1	0	14.48	14.48	14.48				
10	16QAM	1	20	14.43	14.39	14.28	16	0		
10	16QAM	1	40	14.38	14.44	14.39				
10	16QAM	25	0	14.40	14.43	14.43				
10	16QAM	25	12	14.40	14.43	14.40	16	0		
10	16QAM	25	24	14.38	14.43	14.44				
10	16QAM	50	0	14.44	14.44	14.45				
10	16QAM	1	0	14.40	14.47	14.38				
10	16QAM	1	20	14.43	14.39	14.42	16	0		
10	16QAM	1	40	14.40	14.42	14.42				
10	16QAM	25	0	14.40	14.35	14.43				
10	16QAM	25	12	14.43	14.37	14.38	16	0		
10	16QAM	25	24	14.41	14.41	14.35				
10	256QAM	1	0	14.49	14.52	14.50				
10	256QAM	1	20	14.54	14.50	14.48	16	0		
10	256QAM	1	40	14.52	14.44	14.33				
10	256QAM	25	0	14.41	14.45	14.35				
10	256QAM	25	12	14.42	14.45	14.46	16	0		
10	256QAM	25	24	14.41	14.45	14.46				
10	256QAM	50	0	14.35	14.39	14.36				
Channel				2502.5	2035	2037.5				
Frequency (MHz)										
5	QPSK	1	0	14.40	14.61	14.50				
5	QPSK	1	10	14.44	14.43	14.43	16	0		
5	QPSK	1	24	14.41	14.46	14.46				
5	QPSK	12	0	14.46	14.47	14.43				
5	QPSK	12	7	14.38	14.43	14.35	16	0		
5	QPSK	12	13	14.47	14.41	14.45				
5	QPSK	25	0	14.38	14.41	14.38				
5	16QAM	1	0	14.47	14.46	14.46				
5	16QAM	1	12	14.39	14.32	14.33	16	0		
5	16QAM	1	24	14.34	14.40	14.40				
5	16QAM	12	0	14.37	14.40	14.40				
5	16QAM	12	7	14.34	14.44	14.41	16	0		
5	16QAM	12	13	14.46	14.38	14.31				
5	16QAM	25	0	14.48	14.50	14.43				
5	16QAM	1	0	14.48	14.44	14.45				
5	16QAM	1	12	14.39	14.47	14.46	16	0		
5	16QAM	1	24	14.31	14.37	14.30				
5	16QAM	12	0	14.38	14.45	14.33				
5	16QAM	12	7	14.38	14.41	14.37	16	0		
5	16QAM	12	13	14.44	14.33	14.30				
5	16QAM	25	0	14.42	14.45	14.35				
5	256QAM	1	0	14.50	14.46	14.40				
5	256QAM	1	10	14.49	14.35	14.42	16	0		
5	256QAM	1	24	14.40	14.52	14.42				
5	256QAM	12	0	14.40	14.37	14.42				
5	256QAM	12	7	14.38	14.34	14.38	16	0		
5	256QAM	12	13	14.35	14.41	14.44				
5	256QAM	25	0	14.44	14.48	14.37				

Band 7_Ant 5										
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch. 1 (Frac)	Power Level Ch. 2 (Frac)	Power Level Ch. 3 (Frac)	Time-up (dBm)	MFR (dB)		
Channel				2600	2100	2100				
Frequency (MHz)										
20	QPSK	1	0	13.54	13.05	13.07				
20	QPSK	1	49	13.53	13.54	13.55	14.5	0		
20	QPSK	1	98	13.52	13.52	13.52				
20	QPSK	50	0	13.36	13.37	13.36				
20	QPSK	50	24	13.52	13.53	13.52	14.5	0		
20	QPSK	50	24	13.52	13.52	13.48				
20	QPSK	100	0	13.49	13.55	13.54				
20	16QAM	1	0	13.60	13.52	13.53				
20	16QAM	1	49	13.56	13.52	13.58	14.5	0		
20	16QAM	1	98	13.61	13.63	13.63				
20	16QAM	50	0	13.60	13.57	13.58				
20	16QAM	50	24	13.52	13.52	13.58	14.5	0		
20	16QAM	50	24	13.54	13.60	13.60				
20	16QAM	100	0	13.60	13.59	13.60				
20	16QAM	1	0	13.59	13.62	13.60				
20	16QAM	1	49	13.53	13.52	13.50	14.5	0		
20	16QAM	1	98	13.55	13.59	13.58				
20	16QAM	50	0	13.52	13.59	13.61				
20	16QAM	50	24	13.58	13.55	13.60	14.5	0		
20	16QAM	50	24	13.58	13.55	13.60				
20	16QAM	100	0	13.52	13.59	13.61				
20	16QAM	100	0	13.52	13.59	13.61				
20	256QAM	1	0	13.64	13.63	13.59				
20	256QAM	1	49	13.60	13.67	13.66	14.5	0		
20	256QAM	1	98	13.58	13.59	13.57				
20	256QAM	50	0	13.54	13.59	13.58				
20	256QAM	50	24	13.52	13.52	13.48	14.5	0		
20	256QAM	50	24	13.52	13.58	13.54				
20	256QAM	100	0	13.57	13.58	13.54				
20	256QAM	100	0	13.60	13.67	13.63				
Channel				2602.5	2035	2032.5				
Frequency										



Band 4_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Flux	Power Ch./Flux	Power Ch./Flux	Time-use (min)	MFR (dB)		
Frequency (MHz)										
20	QPSK	1	0	22.84	22.82	22.82				
20	QPSK	1	49	22.76	22.84	22.85	23	0		
20	QPSK	1	98	22.68	22.81	22.84				
20	QPSK	50	0	22.88	22.81	22.84				
20	QPSK	50	24	22.80	22.79	22.77				
20	QPSK	50	49	22.72	22.78	22.78				
20	QPSK	100	0	22.82	22.80	22.84				
20	QPSK	100	1	22.77	22.76	22.84				
20	QPSK	100	24	22.69	22.82	22.82				
20	QPSK	100	49	22.68	22.82	22.84				
20	QPSK	150	0	22.70	22.76	22.76				
20	QPSK	150	24	22.62	22.72	22.78				
20	QPSK	150	49	22.54	22.72	22.78				
20	QPSK	150	74	22.46	22.61	22.86				
20	QPSK	150	99	22.38	22.58	22.84				
20	QPSK	150	124	22.30	22.52	22.82				
20	QPSK	150	149	22.22	22.42	22.80				
20	QPSK	150	174	22.14	22.32	22.78				
20	QPSK	150	199	22.06	22.22	22.76				
20	QPSK	150	224	21.98	22.12	22.74				
20	QPSK	150	249	21.90	22.02	22.72				
20	QPSK	150	274	21.82	21.92	22.70				
20	QPSK	150	299	21.74	21.82	22.68				
20	QPSK	150	324	21.66	21.72	22.66				
20	QPSK	150	349	21.58	21.62	22.64				
20	QPSK	150	374	21.50	21.52	22.62				
20	QPSK	150	399	21.42	21.42	22.60				
20	QPSK	150	424	21.34	21.32	22.58				
20	QPSK	150	449	21.26	21.22	22.56				
20	QPSK	150	474	21.18	21.12	22.54				
20	QPSK	150	499	21.10	21.02	22.52				
20	QPSK	150	524	21.02	20.92	22.50				
20	QPSK	150	549	20.94	20.82	22.48				
20	QPSK	150	574	20.86	20.72	22.46				
20	QPSK	150	599	20.78	20.58	22.44				
20	QPSK	150	624	20.70	20.48	22.42				
20	QPSK	150	649	20.62	20.38	22.40				
20	QPSK	150	674	20.54	20.28	22.38				
20	QPSK	150	699	20.46	20.18	22.36				
20	QPSK	150	724	20.38	20.08	22.34				
20	QPSK	150	749	20.30	19.98	22.32				
20	QPSK	150	774	20.22	19.88	22.30				
20	QPSK	150	799	20.14	19.78	22.28				
20	QPSK	150	824	20.06	19.68	22.26				
20	QPSK	150	849	19.98	19.58	22.24				
20	QPSK	150	874	19.90	19.48	22.22				
20	QPSK	150	899	19.82	19.38	22.20				
20	QPSK	150	924	19.74	19.28	22.18				
20	QPSK	150	949	19.66	19.18	22.16				
20	QPSK	150	974	19.58	19.08	22.14				
20	QPSK	150	999	19.50	18.98	22.12				
20	QPSK	150	1024	19.42	18.88	22.10				
20	QPSK	150	1049	19.34	18.78	22.08				
20	QPSK	150	1074	19.26	18.68	22.06				
20	QPSK	150	1099	19.18	18.58	22.04				
20	QPSK	150	1124	19.10	18.48	22.02				
20	QPSK	150	1149	19.02	18.38	22.00				
20	QPSK	150	1174	18.94	18.28	21.98				
20	QPSK	150	1199	18.86	18.18	21.96				
20	QPSK	150	1224	18.78	18.08	21.94				
20	QPSK	150	1249	18.70	17.98	21.92				
20	QPSK	150	1274	18.62	17.88	21.90				
20	QPSK	150	1299	18.54	17.78	21.88				
20	QPSK	150	1324	18.46	17.68	21.86				
20	QPSK	150	1349	18.38	17.58	21.84				
20	QPSK	150	1374	18.30	17.48	21.82				
20	QPSK	150	1399	18.22	17.38	21.80				
20	QPSK	150	1424	18.14	17.28	21.78				
20	QPSK	150	1449	18.06	17.18	21.76				
20	QPSK	150	1474	17.98	17.08	21.74				
20	QPSK	150	1499	17.90	16.98	21.72				
20	QPSK	150	1524	17.82	16.88	21.70				
20	QPSK	150	1549	17.74	16.78	21.68				
20	QPSK	150	1574	17.66	16.68	21.66				
20	QPSK	150	1599	17.58	16.58	21.64				
20	QPSK	150	1624	17.50	16.48	21.62				
20	QPSK	150	1649	17.42	16.38	21.60				
20	QPSK	150	1674	17.34	16.28	21.58				
20	QPSK	150	1699	17.26	16.18	21.56				
20	QPSK	150	1724	17.18	16.08	21.54				
20	QPSK	150	1749	17.10	15.98	21.52				
20	QPSK	150	1774	17.02	15.88	21.50				
20	QPSK	150	1799	16.94	15.78	21.48				
20	QPSK	150	1824	16.86	15.68	21.46				
20	QPSK	150	1849	16.78	15.58	21.44				
20	QPSK	150	1874	16.70	15.48	21.42				
20	QPSK	150	1899	16.62	15.38	21.40				
20	QPSK	150	1924	16.54	15.28	21.38				
20	QPSK	150	1949	16.46	15.18	21.36				
20	QPSK	150	1974	16.38	15.08	21.34				
20	QPSK	150	1999	16.30	14.98	21.32				
20	QPSK	150	2024	16.22	14.88	21.30				
20	QPSK	150	2049	16.14	14.78	21.28				
20	QPSK	150	2074	16.06	14.68	21.26				
20	QPSK	150	2099	15.98	14.58	21.24				
20	QPSK	150	2124	15.90	14.48	21.22				
20	QPSK	150	2149	15.82	14.38	21.20				
20	QPSK	150	2174	15.74	14.28	21.18				
20	QPSK	150	2199	15.66	14.18	21.16				
20	QPSK	150	2224	15.58	14.08	21.14				
20	QPSK	150	2249	15.50	13.98	21.12				
20	QPSK	150	2274	15.42	13.88	21.10				
20	QPSK	150	2299	15.34	13.78	21.08				
20	QPSK	150	2324	15.26	13.68	21.06				
20	QPSK	150	2349	15.18	13.58	21.04				
20	QPSK	150	2374	15.10	13.48	21.02				
20	QPSK	150	2399	15.02	13.38	21.00				
20	QPSK	150	2424	14.94	13.28	20.98				
20	QPSK	150	2449	14.86	13.18	20.96				
20	QPSK	150	2474	14.78	13.08	20.94				
20	QPSK	150	2499	14.70	12.98	20.92				
20	QPSK	150	2524	14.62	12.88	20.90				
20	QPSK	150	2549	14.54	12.78	20.88				
20	QPSK	150	2574	14.46	12.68	20.86				
20	QPSK	150	2599	14.38	12.58	20.84				
20	QPSK	150	2624	14.30	12.48	20.82				
20	QPSK	150	2649	14.22	12.38	20.80				
20	QPSK	150	2674	14.14	12.28	20.78				
20	QPSK	150	2699	14.06	12.18	20.76				
20	QPSK	150	2724	13.98	12.08	20.74				
20	QPSK	150	2749	13.90	11.98	20.72				
20	QPSK	150	2774	13.82	11.88	20.70				
20	QPSK	150	2799	13.74	11.78	20.68				
20	QPSK	150	2824	13.66	11.68	20.66				
20	QPSK	150	2849	13.58	11.58	20.64				
20	QPSK	150	2874	13.50	11.48	20.62				
20	QPSK	150	2899	13.42	11.38	20.60				



Band 7_Ant 3										
BW (MHz)	Modulation	FD Size	FD Offset	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Turn-up (dBm)	MFR (dB)		
Channel				2050	2100	2150				
Frequency (MHz)										
20	QPSK	1	0	18.78	18.80	18.88				
20	QPSK	1	49	18.69	18.65	18.62	20	0		
20	QPSK	1	24	18.74	18.78	18.82				
20	QPSK	50	0	18.44	18.85	18.45				
20	QPSK	50	24	18.43	18.45	18.50				
20	QPSK	50	50	18.01	18.48	18.50				
20	QPSK	100	0	18.45	18.48	18.30				
20	16QAM	1	0	18.54	18.43	18.48				
20	16QAM	1	49	18.68	18.48	18.52				
20	16QAM	1	59	18.47	18.47	18.47				
20	16QAM	50	0	18.44	18.48	18.27				
20	16QAM	50	24	18.51	18.43	18.43				
20	16QAM	50	50	18.40	18.42	18.43				
20	16QAM	100	0	18.46	18.37	18.40				
20	16QAM	1	0	18.58	18.40	18.51				
20	16QAM	1	49	18.46	18.43	18.47				
20	16QAM	1	59	18.50	18.44	18.48				
20	16QAM	50	0	18.43	18.40	18.33				
20	16QAM	50	24	18.43	18.43	18.39				
20	16QAM	50	50	18.46	18.46	18.42				
20	16QAM	100	0	18.43	18.41	18.48				
20	256QAM	1	0	18.60	17.01	18.37				
20	256QAM	1	49	18.60	18.61	18.61	18.5	1.5		
20	256QAM	1	59	18.67	18.73	18.75				
20	256QAM	50	0	18.67	18.91	18.93				
20	256QAM	50	24	18.68	18.94	18.94				
20	256QAM	50	50	18.50	18.97	18.95				
20	256QAM	100	0	18.88	17.06	18.93				
Channel				2100	2150	2190				
Frequency (MHz)										
15	QPSK	1	0	18.58	18.78	18.58				
15	QPSK	1	37	18.62	18.58	18.47	20	0		
15	QPSK	1	74	18.61	18.60	18.41				
15	QPSK	36	0	18.29	18.58	18.35				
15	QPSK	36	20	18.26	18.40	18.24				
15	QPSK	36	59	18.52	18.38	18.24				
15	QPSK	75	0	18.28	18.30	18.23				
15	16QAM	1	0	18.44	18.20	18.28				
15	16QAM	1	37	18.58	18.42	18.48				
15	16QAM	1	74	18.33	18.39	18.32				
15	16QAM	36	0	18.41	18.20	18.31				
15	16QAM	36	20	18.38	18.38	18.33				
15	16QAM	36	59	18.25	18.24	18.27				
15	16QAM	75	0	18.31	18.28	18.31				
15	16QAM	1	0	18.44	18.43	18.41				
15	16QAM	1	37	18.20	18.28	18.29				
15	16QAM	1	74	18.37	18.43	18.43				
15	16QAM	36	0	18.38	18.32	18.40				
15	16QAM	36	20	18.38	18.35	18.31				
15	16QAM	36	59	18.31	18.42	18.33				
15	16QAM	75	0	18.32	18.22	18.32				
15	256QAM	1	0	18.60	18.62	18.61	18.5	1.5		
15	256QAM	1	37	18.60	18.60	18.61				
15	256QAM	1	74	18.67	18.53	18.58				
15	256QAM	36	0	18.79	18.68	18.73				
15	256QAM	36	20	18.71	18.78	18.78				
15	256QAM	36	59	18.61	18.91	18.94				
15	256QAM	75	0	18.78	18.52	18.87				
Channel				2150	2190	2190				
Frequency (MHz)										
10	QPSK	1	0	18.61	18.68	18.59				
10	QPSK	1	20	18.61	18.60	18.46	20	0		
10	QPSK	1	49	18.61	18.62	18.40				
10	QPSK	25	0	18.30	18.59	18.30				
10	QPSK	25	12	18.30	18.30	18.25				
10	QPSK	25	24	18.35	18.35	18.34				
10	QPSK	50	0	18.30	18.30	18.17				
10	16QAM	1	0	18.48	18.30	18.30				
10	16QAM	1	20	18.47	18.43	18.38				
10	16QAM	1	49	18.38	18.28	18.27				
10	16QAM	25	0	18.40	18.41	18.14				
10	16QAM	25	12	18.43	18.38	18.35				
10	16QAM	25	24	18.30	18.32	18.32				
10	16QAM	50	0	18.38	18.38	18.26				
10	16QAM	1	0	18.47	18.32	18.37				
10	16QAM	1	20	18.38	18.24	18.33				
10	16QAM	1	49	18.24	18.36	18.33				
10	16QAM	25	0	18.38	18.30	18.40				
10	16QAM	25	12	18.28	18.28	18.28				
10	16QAM	25	24	18.20	18.31	18.37				
10	16QAM	50	0	18.29	18.36	18.31				
10	256QAM	1	0	18.60	18.61	18.60	18.5	1.5		
10	256QAM	1	20	18.60	18.75	18.63				
10	256QAM	1	49	18.68	18.63	18.60				
10	256QAM	25	0	18.62	18.77	18.67				
10	256QAM	25	12	18.62	18.64	18.60				
10	256QAM	25	24	18.64	18.78	18.63				
10	256QAM	50	0	18.62	18.50	18.60				
Channel				2190	2190	2190				
Frequency (MHz)										
5	QPSK	1	0	18.66	18.71	18.61				
5	QPSK	1	18	18.63	18.48	18.56				
5	QPSK	1	24	18.58	18.58	18.41				
5	QPSK	12	0	18.31	18.53	18.40				
5	QPSK	12	7	18.24	18.37	18.33				
5	QPSK	12	13	18.34	18.30	18.27				
5	QPSK	25	0	18.30	18.41	18.18				
5	16QAM	1	0	18.42	18.34	18.30				
5	16QAM	1	12	18.40	18.38	18.39				
5	16QAM	1	24	18.31	18.42	18.38				
5	16QAM	12	0	18.27	18.31	18.18				
5	16QAM	12	7	18.32	18.24	18.23				
5	16QAM	12	13	18.35	18.33	18.30				
5	16QAM	25	0	18.31	18.28	18.25				
5	16QAM	1	0	18.47	18.30	18.37				
5	16QAM	1	12	18.33	18.35	18.27				
5	16QAM	1	24	18.24	18.28	18.31				
5	16QAM	12	0	18.25	18.45	18.38				
5	16QAM	12	7	18.27	18.30	18.19				
5	16QAM	12	13	18.30	18.41	18.30				
5	16QAM	25	0	18.28	18.30	18.33				
5	256QAM	1	0	18.60	18.61	18.77	18.5	1.5		
5	256QAM	1	12	18.67	18.64	18.61				
5	256QAM	1	24	18.51	18.53	18.65				
5	256QAM	12	0	18.45	18.71	18.63				
5	256QAM	12	7	18.52	18.77	18.62				
5	256QAM	12	13	18.60	18.62	18.78				
5	256QAM	25	0	18.61	18.50	18.62				

Band 7_Ant 5										
BW (MHz)	Modulation	FD Size	FD Offset	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Turn-up (dBm)	MFR (dB)		
Channel				2050	2100	2150				
Frequency (MHz)										
20	QPSK	1	0	18.78	18.80	18.88				
20	QPSK	1	49	18.73	18.87	18.86	20	0		
20	QPSK	1	49	18.63	18.73	18.82				
20	QPSK	50	0	18.78	18.83	18.82				
20	QPSK	50	24	18.75	18.71	18.87				
20	QPSK	50	50	18.74	18.72	18.81				
20	QPSK	100	0	18.77	18.79	18.68				
20	16QAM	1	0	18.80	18.60	18.78				
20	16QAM	1	49	18.64	18.90	18.68	49	0		
20	16QAM	1	59	18.53	18.71	18.61				
20	16QAM	50	0	18.80	18.61	18.78				
20	16QAM	50	24	18.75	18.80	18.79				
20	16QAM	50	50	18.81	18.84	18.85				
20	16QAM	100	0	18.58	18.84	18.79				
20	16QAM	1	0	18.59	18.80	18.95				
20	16QAM	1	49	18.72	18.63	18.78				
20	16QAM	1	59	18.61	18.79	18.83				
20	16QAM	50	0	18.80	18.65	18.83				
20	16QAM	50	24	18.54	18.86	18.78				
20	16QAM	50	50	18.77	18.84	18.84				
20	16QAM	100	0	18.61	18.94	18.78				
20	256QAM	1	0	18.61	18.38	18.62				
20	256QAM	1	49	18.67	18.78	18.80	20	0		
20	256QAM	1	59	18.62	18.62	18.65				
20	256QAM	50	0	18.61	18.81	18.87				
20	256QAM	50	24	18.59	18.84	18.84				
20	256QAM	50	50	18.65	18.78	18.85				
20	256QAM	100	0	18.82	18.73	18.69				
Channel				2100	2150	2190				
Frequency (MHz)										
15	QPSK	1	0	18.63	18.68	18.63				
15	QPSK	1	37	18.63	18.72	18.78	20	0		
15	QPSK	1	74	18.67	18.53	18.79				
15	QPSK	36	0	18.73</						



Band 4_Ant 0										
BW MHz	Modulation	RB Size	RB Offset	Power Ch./Flux	Power Ch./Flux	Power Ch./Flux	Time-use (min)	MFR (dB)		
Frequency (MHz)										
20	QPSK	1	0	24.55	24.55	24.55				
20	QPSK	1	49	24.52	24.52	24.48	25	0		
20	QPSK	1	98	24.52	24.52	24.48				
20	QPSK	50	0	23.57	23.57	23.56				
20	QPSK	50	24	23.57	23.54	23.45	24	1		
20	QPSK	100	0	23.44	23.51	23.37				
20	QPSK	100	1	23.42	23.42	23.42				
20	QPSK	100	24	23.39	23.39	23.45				
20	QPSK	1	99	23.39	23.39	23.38				
20	QPSK	50	0	22.42	22.42	22.32				
20	QPSK	50	24	22.39	22.49	22.38				
20	QPSK	100	0	22.22	22.21	22.24				
20	QPSK	100	1	22.27	22.42	22.30				
20	QPSK	100	24	22.22	22.22	22.33				
20	QPSK	1	49	22.21	22.22	22.28	23	2		
20	QPSK	1	99	22.26	22.21	22.29				
20	QPSK	50	0	21.26	21.26	21.32				
20	QPSK	50	24	21.23	21.22	21.25				
20	QPSK	100	0	20.22	20.22	20.22				
20	QPSK	100	1	20.27	20.22	20.20				
20	QPSK	100	24	20.22	20.22	20.20				
20	QPSK	1	49	20.21	20.22	20.11	23	2		
20	QPSK	1	99	20.26	20.21	20.29				
20	QPSK	50	0	19.26	19.26	19.38				
20	QPSK	50	24	19.23	19.22	19.25				
20	QPSK	100	0	18.22	18.22	18.22				
20	QPSK	100	1	18.27	18.22	18.27				
20	QPSK	100	24	18.22	18.22	18.27				
Frequency (MHz)										
15	QPSK	1	0	24.47	24.38	24.37				
15	QPSK	1	37	24.26	24.21	24.23	25	0		
15	QPSK	1	74	24.24	24.24	24.28				
15	QPSK	36	0	23.38	23.33	23.33				
15	QPSK	36	20	23.38	23.42	23.32	24	1		
15	QPSK	72	0	23.41	23.39	23.39				
15	QPSK	72	1	23.39	23.42	23.27				
15	QPSK	1	0	22.38	22.42	22.33				
15	QPSK	1	37	22.38	22.42	22.33	24	1		
15	QPSK	1	74	22.32	22.42	22.34				
15	QPSK	36	0	22.18	22.42	22.22				
15	QPSK	36	20	22.18	22.42	22.22	23	2		
15	QPSK	72	0	22.28	22.43	22.27				
15	QPSK	72	1	22.28	22.43	22.27				
15	QPSK	1	0	21.28	21.25	21.25				
15	QPSK	1	37	21.22	21.25	21.24	23	2		
15	QPSK	1	74	21.28	21.25	21.25				
15	QPSK	36	0	20.28	20.22	20.22				
15	QPSK	36	20	20.24	20.22	20.24				
15	QPSK	72	0	19.24	19.22	19.22				
15	QPSK	72	1	19.28	19.22	19.22				
15	QPSK	1	0	18.24	18.22	18.22				
15	QPSK	1	37	18.22	18.22	18.22				
15	QPSK	1	74	18.28	18.22	18.22				
15	QPSK	36	0	17.24	17.22	17.22				
15	QPSK	36	20	17.28	17.22	17.22				
15	QPSK	72	0	16.24	16.22	16.22				
15	QPSK	72	1	16.28	16.22	16.22				
15	QPSK	1	0	15.24	15.22	15.22				
15	QPSK	1	37	15.22	15.22	15.24	23	2		
15	QPSK	1	74	15.28	15.22	15.22				
15	QPSK	36	0	14.24	14.22	14.22				
15	QPSK	36	20	14.28	14.22	14.22				
15	QPSK	72	0	13.24	13.22	13.22				
15	QPSK	72	1	13.28	13.22	13.22				
15	QPSK	1	0	12.24	12.22	12.22				
15	QPSK	1	37	12.22	12.22	12.24	23	2		
15	QPSK	1	74	12.28	12.22	12.22				
15	QPSK	36	0	11.24	11.22	11.22				
15	QPSK	36	20	11.28	11.22	11.22				
15	QPSK	72	0	10.24	10.22	10.22				
15	QPSK	72	1	10.28	10.22	10.22				
15	QPSK	1	0	9.24	9.22	9.22				
15	QPSK	1	37	9.22	9.22	9.24	23	2		
15	QPSK	1	74	9.28	9.22	9.22				
15	QPSK	36	0	8.24	8.22	8.22				
15	QPSK	36	20	8.28	8.22	8.22				
15	QPSK	72	0	7.24	7.22	7.22				
15	QPSK	72	1	7.28	7.22	7.22				
15	QPSK	1	0	6.24	6.22	6.22				
15	QPSK	1	37	6.22	6.22	6.24	23	2		
15	QPSK	1	74	6.28	6.22	6.22				
15	QPSK	36	0	5.24	5.22	5.22				
15	QPSK	36	20	5.28	5.22	5.22				
15	QPSK	72	0	4.24	4.22	4.22				
15	QPSK	72	1	4.28	4.22	4.22				
15	QPSK	1	0	3.24	3.22	3.22				
15	QPSK	1	37	3.22	3.22	3.24	23	2		
15	QPSK	1	74	3.28	3.22	3.22				
15	QPSK	36	0	2.24	2.22	2.22				
15	QPSK	36	20	2.28	2.22	2.22				
15	QPSK	72	0	1.24	1.22	1.22				
15	QPSK	72	1	1.28	1.22	1.22				
15	QPSK	1	0	0.24	0.22	0.22				
15	QPSK	1	37	0.22	0.22	0.24	23	2		
15	QPSK	1	74	0.28	0.22	0.22				
15	QPSK	36	0	-0.24	-0.22	-0.22				
15	QPSK	36	20	-0.28	-0.22	-0.22				
15	QPSK	72	0	-1.24	-1.22	-1.22				
15	QPSK	72	1	-1.28	-1.22	-1.22				
15	QPSK	1	0	-2.24	-2.22	-2.22				
15	QPSK	1	37	-2.22	-2.22	-2.24	23	2		
15	QPSK	1	74	-2.28	-2.22	-2.22				
15	QPSK	36	0	-3.24	-3.22	-3.22				
15	QPSK	36	20	-3.28	-3.22	-3.22				
15	QPSK	72	0	-4.24	-4.22	-4.22				
15	QPSK	72	1	-4.28	-4.22	-4.22				
15	QPSK	1	0	-5.24	-5.22	-5.22				
15	QPSK	1	37	-5.22	-5.22	-5.24	23	2		
15	QPSK	1	74	-5.28	-5.22	-5.22				
15	QPSK	36	0	-6.24	-6.22	-6.22				
15	QPSK	36	20	-6.28	-6.22	-6.22				
15	QPSK	72	0	-7.24	-7.22	-7.22				
15	QPSK	72	1	-7.28	-7.22	-7.22				
15	QPSK	1	0	-8.24	-8.22	-8.22				
15	QPSK	1	37	-8.22	-8.22	-8.24	23	2		
15	QPSK	1	74	-8.28	-8.22	-8.22				
15	QPSK	36	0	-9.24	-9.22	-9.22				
15	QPSK	36	20	-9.28	-9.22	-9.22				
15	QPSK	72	0	-10.24	-10.22	-10.22				
15	QPSK	72	1	-10.28	-10.22	-10.22				
15	QPSK	1	0	-11.24	-11.22	-11.22				
15	QPSK	1	37	-11.22	-11.22	-11.24	23	2		
15	QPSK	1	74	-11.28	-11.22	-11.22				
15	QPSK	36	0	-12.24	-12.22	-12.22				
15	QPSK	36	20	-12.28	-12.22	-12.22				
15	QPSK	72	0	-13.24	-13.22	-13.22				
15	QPSK	72	1	-13.28	-13.22	-13.22				
15	QPSK	1	0	-14.24	-14.22	-14.22				
15	QPSK	1	37	-14.22	-14.22	-14.24	23	2		
15	QPSK	1	74	-14.28	-14.22	-14.22				
15	QPSK	36	0	-15.24	-15.22	-15.22				
15	QPSK	36	20	-15.28	-15.22	-15.22				
15	QPSK	72	0	-16.24	-16.22					



### Band 7\_Ant 3

BW (MHz)	Modulation	PG Size	PG Offset	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Turn-up level	MFR (dB)
Channel				2050	2100	2150		
Frequency (MHz)								
20	QPSK	1	0	22.19	22.25	22.16		
20	QPSK	1	49	22.11	22.12	22.10	22.5	0
20	QPSK	1	49	22.08	22.12	22.10		
20	QPSK	50	0	21.08	21.12	21.06		
20	QPSK	50	24	21.07	21.08	21.01	22.5	1
20	QPSK	50	0	20.03	20.06	20.02		
20	QPSK	100	0	20.99	21.03	20.97		
20	16QAM	1	0	21.07	21.13	20.98		
20	16QAM	1	49	21.01	21.14	21.04	22.5	1
20	16QAM	1	99	21.04	21.15	21.07		
20	16QAM	50	0	20.06	20.16	20.02		
20	16QAM	50	24	20.07	20.16	20.07		
20	16QAM	50	50	20.18	20.27	20.16	21.5	2
20	16QAM	100	0	20.07	20.13	20.06		
20	16QAM	1	0	20.11	20.26	20.02		
20	16QAM	1	49	20.19	20.26	20.16	21.5	2
20	16QAM	1	99	20.26	20.29	20.22		
20	16QAM	50	0	19.06	19.11	19.16		
20	16QAM	50	24	19.13	19.22	19.07	20.5	3
20	16QAM	50	50	19.12	19.24	19.14		
20	16QAM	100	0	19.01	19.16	19.05		
20	256QAM	1	0	17.05	17.23	16.97		
20	256QAM	1	49	17.00	17.16	17.04	18.5	5
20	256QAM	1	99	17.16	17.26	17.07		
20	256QAM	50	0	17.01	17.16	17.03		
20	256QAM	50	24	16.99	17.02	16.92		
20	256QAM	50	50	17.05	17.15	16.99	18.5	5
20	256QAM	100	0	17.00	17.17	17.01		
Channel				2100	2150	2190		
Frequency (MHz)								
15	QPSK	1	0	22.07	22.09	21.99		
15	QPSK	1	37	21.02	21.02	21.07	22.5	0
15	QPSK	1	14	22.02	21.09	21.11		
15	QPSK	36	0	21.19	21.07	21.21		
15	QPSK	36	20	21.22	21.07	21.19	22.5	1
15	QPSK	36	59	21.19	21.02	21.23		
15	QPSK	75	0	21.23	21.08	21.22		
15	16QAM	1	0	21.14	21.02	21.03		
15	16QAM	1	37	21.11	21.22	21.21	22.5	1
15	16QAM	1	74	21.13	21.26	21.08		
15	16QAM	36	0	19.06	19.11	19.04		
15	16QAM	36	39	20.03	20.22	20.10	21.5	2
15	16QAM	36	78	19.07	19.16	19.09		
15	16QAM	1	0	19.06	20.17	20.13		
15	16QAM	1	37	20.10	20.22	20.10	21.5	2
15	16QAM	1	74	20.08	20.21	20.06		
15	16QAM	36	0	19.01	19.15	19.10		
15	16QAM	36	20	19.01	19.14	19.06	20.5	3
15	16QAM	36	39	19.07	19.16	19.02		
15	16QAM	75	0	19.02	19.04	19.09		
15	256QAM	1	0	16.85	17.14	16.89		
15	256QAM	1	37	16.80	17.03	16.94	18.5	5
15	256QAM	1	74	17.04	17.10	16.91		
15	256QAM	36	0	16.86	17.08	16.90		
15	256QAM	36	20	16.81	17.01	16.94	18.5	5
15	256QAM	36	39	16.83	16.99	16.92		
15	256QAM	75	0	16.84	17.08	16.93		
Channel				2150	2190	2210		
Frequency (MHz)								
10	QPSK	1	0	22.09	21.93	22.00		
10	QPSK	1	25	21.98	21.97	22.02	22.5	0
10	QPSK	1	49	22.03	22.03	22.01		
10	QPSK	25	0	21.19	21.02	21.28		
10	QPSK	25	12	21.20	21.06	21.22	22.5	1
10	QPSK	25	24	21.21	21.01	21.25		
10	QPSK	50	0	21.16	20.98	21.16		
10	16QAM	1	0	21.23	21.06	21.05		
10	16QAM	1	25	21.09	21.19	21.22	22.5	1
10	16QAM	1	49	21.09	21.26	21.08		
10	16QAM	25	0	19.01	19.05	19.02		
10	16QAM	25	12	19.09	20.14	19.04	21.5	2
10	16QAM	25	24	20.10	20.18	20.08		
10	16QAM	50	0	20.00	20.06	19.92		
10	16QAM	1	0	20.05	20.20	20.04	21.5	2
10	16QAM	1	49	20.12	20.18	20.13		
10	16QAM	25	0	18.02	18.05	18.08		
10	16QAM	25	12	19.04	19.13	18.96	20.5	3
10	16QAM	25	24	19.05	19.12	18.94		
10	16QAM	50	0	18.06	18.05	18.01		
10	256QAM	1	0	17.02	17.14	16.92		
10	256QAM	1	25	16.94	17.14	16.90	18.5	5
10	256QAM	1	49	17.08	17.11	17.01		
10	256QAM	25	0	16.86	17.03	16.88		
10	256QAM	25	12	16.89	17.13	16.80	18.5	5
10	256QAM	25	24	16.82	17.07	16.91		
10	256QAM	50	0	16.85	17.11	16.96		
Channel				2190	2210	2240		
Frequency (MHz)								
5	QPSK	1	0	22.09	21.99	21.90		
5	QPSK	1	19	22.07	21.97	22.00	22.5	0
5	QPSK	1	24	22.03	22.00	22.17		
5	QPSK	12	0	21.16	21.07	21.25		
5	QPSK	12	7	21.11	20.98	21.20	22.5	1
5	QPSK	12	13	21.25	21.08	21.19		
5	QPSK	25	0	21.19	20.97	21.12		
5	16QAM	1	0	21.20	21.08	21.06		
5	16QAM	1	12	21.03	21.25	21.13	22.5	1
5	16QAM	1	24	21.14	21.30	21.13		
5	16QAM	12	0	19.04	19.06	19.00		
5	16QAM	12	7	19.02	20.05	19.04	21.5	2
5	16QAM	12	13	20.03	20.22	20.00		
5	16QAM	25	0	19.00	20.05	19.92		
5	16QAM	1	0	19.06	20.18	20.13	21.5	2
5	16QAM	1	12	20.04	20.17	20.02		
5	16QAM	1	24	20.08	20.13	20.10		
5	16QAM	12	0	18.09	18.10	18.11		
5	16QAM	12	7	19.06	19.09	18.99	20.5	3
5	16QAM	12	13	19.05	19.12	18.98		
5	16QAM	25	0	18.09	18.95	18.91		
5	256QAM	1	0	16.86	17.12	16.92		
5	256QAM	1	12	16.86	17.10	16.91	18.5	5
5	256QAM	1	24	17.09	17.15	16.97		
5	256QAM	12	0	16.87	17.08	16.89		
5	256QAM	12	7	16.83	17.10	16.92	18.5	5
5	256QAM	12	13	16.90	17.03	16.94		
5	256QAM	25	0	16.81	17.02	16.80		

### Band 7\_Ant 5

BW (MHz)	Modulation	PG Size	PG Offset	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Turn-up level	MFR (dB)
Channel				2050	2100	2150		
Frequency (MHz)								
20	QPSK	1	0	21.98	21.04	21.83		
20	QPSK	1	49	21.98	21.52	21.80	22.5	0
20	QPSK	1	49	21.93	21.54	21.82		
20	QPSK	50	0	21.96	21.96	21.97		
20	QPSK	50	24	21.93	21.94	21.91	22.5	0
20	QPSK	50	0	21.93	21.96	21.98		
20	QPSK	100	0	21.92	21.96	21.93		
20	16QAM	1	0	21.49	21.97	21.93		
20	16QAM	1	49	21.48	21.92	21.93	22.5	0
20	16QAM	1	99	21.44	21.93	21.92		
20	16QAM	50	0	21.49	21.94	21.92		
20	16QAM	50	24	21.97	21.49	21.44	22.5	0
20	16QAM	50	50	21.44	21.93	21.93		
20	16QAM	100	0	21.42	21.91	21.49		
20	16QAM	1	0	21.90	21.97	21.93		
20	16QAM	1	49	21.48	21.95	21.95	22.5	0
20	16QAM	1	99	21.96	21.81	21.99		
20	16QAM	50	0	20.99	21.90	21.90		
20	16QAM	50	24	20.95	21.93	21.92	22	0.5
20	16QAM	50	50	20.99	21.92	20.99		
20	16QAM	100	0	20.91	21.90	20.98		
20	256QAM	1	0	19.01	19.09	19.06		
20	256QAM	1	49	18.94	19.09	19.07	20	2.5
20	256QAM	1	99	18.93	19.04	19.03		
20	256QAM	50	0	18.99	19.03	19.01		
20	256QAM	50	24	18.94	19.02	18.99	20	2.5
20	256QAM	50	50	18.93	19.07	19.06		
20	256QAM	100	0	19.01	19.09	19.06		
Channel				2100	2150	2190		
Frequency (MHz)								
15	QPSK	1	0	21.92	21.98	21.62		
15	QPSK	1	37	21.93	21.48	21.93	22.5	0
15	QPSK	1	14	21.91	21.99	21.96		
15	QPSK	36	0	21.47	21.93	21.92		
15	QPSK	36	20	21.46	21.92	21.49	22.5	0
15	QPSK	36	59	21.49	21.48	21.48		
15	QPSK	75	0	21.90	21.90	21.92		
15	16QAM	1	0	21.46	21.95	21.49		
15	16QAM	1	37	21.44	21.91	21.90	22.5	0
15	16QAM	1	74	21.46	21.91	21.46		
15	16QAM	36	0	19.01	19.01	19.01		
15	16QAM	36	39	20.93	20.96	21.00	22	0.5
15	16QAM	36	78	20.96	20.99	20.99		
15	16QAM	75	0	20.97	20.94	20.91		
15	256QAM	1	0	18.98	19.04	18.98		
15	256QAM	1	37	18.97	19.06	18.96	20	2.5
15	256QAM	1	74	18.99	18.98	18.97		
15	256QAM							



Band 4_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Flux	Power Ch./Flux	Power Ch./Flux	Time-use (min)	MFR (dB)		
Frequency (MHz)										
20	QPSK	1	0	22.84	22.82	22.82				
20	QPSK	1	49	22.76	22.84	22.85	23	0		
20	QPSK	50	0	22.86	22.81	22.81				
20	QPSK	50	0	22.88	22.81	22.84				
20	QPSK	50	24	22.80	22.79	22.77				
20	QPSK	100	0	22.82	22.78	22.78	23	0		
20	QPSK	100	0	22.82	22.80	22.84				
20	16QAM	1	0	22.77	22.76	22.84				
20	16QAM	50	0	22.80	22.80	22.82				
20	16QAM	1	99	22.80	22.84					
20	16QAM	50	0	22.81	22.76	22.76				
20	16QAM	50	24	22.80	22.79	22.78				
20	16QAM	100	0	22.78	22.77	22.78				
20	16QAM	100	0	22.84	22.81	22.86				
20	16QAM	1	49	22.81	22.87	22.84	23	0		
20	16QAM	1	99	22.79	22.86	22.83				
20	16QAM	50	24	21.80	21.87	21.83	22	1		
20	16QAM	50	0	21.86	21.86	21.88				
20	16QAM	100	0	21.84	21.88	21.84				
20	16QAM	1	0	21.86	21.89	21.85				
20	16QAM	1	99	21.78	21.80	21.80				
20	16QAM	50	0	18.86	18.75	18.83				
20	16QAM	50	24	18.86	18.75	18.83				
20	16QAM	100	0	18.83	18.84	18.85	20	3		
Frequency (MHz)										
18	QPSK	1	0	22.78	22.83	22.82				
18	QPSK	1	37	22.80	22.77	22.81				
18	QPSK	36	0	22.78	22.73	22.83	23	0		
18	QPSK	36	0	22.78	22.80	22.82				
18	QPSK	36	20	22.72	22.80	22.82				
18	QPSK	72	0	22.80	22.80	22.80				
18	QPSK	72	0	22.82	22.81	22.87				
18	16QAM	1	0	22.81	22.76	22.79				
18	16QAM	1	37	22.81	22.78	22.74	23	0		
18	16QAM	1	74	22.82	22.72	22.79				
18	16QAM	36	0	22.78	22.73	22.83				
18	16QAM	36	20	22.76	22.71	22.72				
18	16QAM	72	0	22.77	22.64	22.61				
18	16QAM	72	0	22.78	22.68	22.68				
18	16QAM	1	0	22.78	22.63	22.76				
18	16QAM	1	37	22.80	22.68	22.65	23	0		
18	16QAM	36	0	21.71	21.52	21.54				
18	16QAM	36	20	21.70	21.75	21.69				
18	16QAM	72	0	21.71	21.58	21.75				
18	16QAM	1	0	18.88	18.88	18.81				
18	16QAM	1	37	18.88	18.88	18.88				
18	16QAM	36	0	18.88	18.88	18.88	20	3		
18	16QAM	36	20	18.87	18.84	18.85				
18	16QAM	72	0	18.87	18.84	18.85				
18	16QAM	72	0	18.87	18.84	18.85				
18	16QAM	1	0	18.85	18.87	18.88				
Frequency (MHz)										
18	QPSK	1	0	22.74	22.82	22.82				
18	QPSK	1	25	22.72	22.74	22.83				
18	QPSK	25	0	22.84	22.82	22.88				
18	QPSK	25	0	22.84	22.82	22.88				
18	QPSK	25	25	22.85	22.83	22.89				
18	QPSK	50	0	22.84	22.74	22.73				
18	16QAM	1	25	22.82	22.74	22.85	23	0		
18	16QAM	1	49	22.78	22.74	22.74				
18	16QAM	1	99	22.78	22.74	22.74				
18	16QAM	36	0	22.76	22.64	22.72				
18	16QAM	36	12	22.76	22.64	22.72				
18	16QAM	72	0	22.80	22.66	22.68				
18	16QAM	72	0	22.81	22.67	22.77				
18	16QAM	1	0	22.76	22.62	22.77				
18	16QAM	1	37	22.80	22.67	22.78	23	0		
18	16QAM	36	0	21.71	21.61	21.61				
18	16QAM	36	12	21.70	21.77	21.73	22	1		
18	16QAM	72	0	21.70	21.68	21.76				
18	16QAM	72	0	21.70	21.68	21.76				
18	16QAM	1	0	18.83	18.82	18.86				
18	16QAM	1	37	18.83	18.79	18.81				
18	16QAM	36	0	18.83	18.82	18.82	20	3		
18	16QAM	36	12	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	1	0	18.82	18.82	18.82				
18	16QAM	1	37	18.82	18.82	18.82				
18	16QAM	36	0	18.82	18.82	18.82				
18	16QAM	36	12	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	1	0	18.82	18.82	18.82				
18	16QAM	1	37	18.82	18.82	18.82				
18	16QAM	36	0	18.82	18.82	18.82				
18	16QAM	36	12	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	1	0	18.82	18.82	18.82				
18	16QAM	1	37	18.82	18.82	18.82				
18	16QAM	36	0	18.82	18.82	18.82				
18	16QAM	36	12	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	1	0	18.82	18.82	18.82				
18	16QAM	1	37	18.82	18.82	18.82				
18	16QAM	36	0	18.82	18.82	18.82				
18	16QAM	36	12	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	1	0	18.82	18.82	18.82				
18	16QAM	1	37	18.82	18.82	18.82				
18	16QAM	36	0	18.82	18.82	18.82				
18	16QAM	36	12	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	1	0	18.82	18.82	18.82				
18	16QAM	1	37	18.82	18.82	18.82				
18	16QAM	36	0	18.82	18.82	18.82				
18	16QAM	36	12	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	1	0	18.82	18.82	18.82				
18	16QAM	1	37	18.82	18.82	18.82				
18	16QAM	36	0	18.82	18.82	18.82				
18	16QAM	36	12	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	1	0	18.82	18.82	18.82				
18	16QAM	1	37	18.82	18.82	18.82				
18	16QAM	36	0	18.82	18.82	18.82				
18	16QAM	36	12	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	1	0	18.82	18.82	18.82				
18	16QAM	1	37	18.82	18.82	18.82				
18	16QAM	36	0	18.82	18.82	18.82				
18	16QAM	36	12	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM	72	0	18.82	18.82	18.82				
18	16QAM									



Band 7_Ant 3										
BW (MHz)	Modulation	FD Size	FD Offset	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Turn-on (dBm)	MPR (dB)		
Channel				2050	2100	2150				
Frequency (MHz)										
20	QPSK	1	0	14.08	14.10	14.10				
20	QPSK	1	49	14.05	14.09	14.13	16	0		
20	QPSK	1	24	14.05	14.10	14.15				
20	QPSK	50	0	14.09	14.01	14.14				
20	QPSK	50	24	14.05	14.14	14.10	16	0		
20	QPSK	50	49	14.05	14.14	14.15				
20	QPSK	100	0	14.09	14.05	14.12				
20	16QAM	1	0	14.03	14.04	14.05				
20	16QAM	1	99	14.00	14.05	14.10	16	0		
20	16QAM	50	0	14.02	14.01	14.03				
20	16QAM	50	24	14.00	14.04	14.08				
20	16QAM	50	50	14.01	14.04	14.09	16	0		
20	16QAM	100	0	14.00	14.04	14.08				
20	16QAM	100	0	14.00	14.04	14.08				
20	16QAM	1	49	14.06	14.06	14.07	16	0		
20	16QAM	1	99	14.00	14.00	14.00				
20	16QAM	50	0	14.01	14.04	14.00				
20	16QAM	50	24	14.07	14.03	14.02	16	0		
20	16QAM	50	50	14.00	14.03	14.03				
20	16QAM	100	0	14.00	14.00	14.00				
20	256QAM	1	0	14.03	14.00	14.00				
20	256QAM	1	49	14.00	14.00	14.00	16	0		
20	256QAM	1	99	14.03	14.07	14.00				
20	256QAM	50	0	14.08	14.01	14.05				
20	256QAM	50	24	14.00	14.00	14.00	16	0		
20	256QAM	50	50	14.04	14.00	14.04				
20	256QAM	100	0	14.00	14.04	14.03				
Channel				2100	2150	2190	Turn-on (dBm)	MPR (dB)		
Frequency (MHz)										
15	QPSK	1	0	14.48	14.52	14.56				
15	QPSK	1	37	14.45	14.40	14.42	16	0		
15	QPSK	1	74	14.41	14.41	14.37				
15	QPSK	36	0	14.42	14.47	14.41				
15	QPSK	36	20	14.42	14.40	14.38	16	0		
15	QPSK	36	59	14.40	14.48	14.44				
15	QPSK	75	0	14.37	14.35	14.36				
15	16QAM	1	0	14.40	14.42	14.38				
15	16QAM	1	37	14.38	14.32	14.30	16	0		
15	16QAM	1	74	14.48	14.41	14.42				
15	16QAM	36	0	14.40	14.40	14.40				
15	16QAM	36	39	14.34	14.37	14.30	16	0		
15	16QAM	36	78	14.40	14.40	14.40				
15	16QAM	75	0	14.46	14.46	14.36				
15	16QAM	1	37	14.42	14.44	14.45	16	0		
15	16QAM	1	74	14.40	14.40	14.30				
15	16QAM	36	0	14.45	14.39	14.35				
15	16QAM	36	20	14.40	14.40	14.40	16	0		
15	16QAM	36	59	14.40	14.40	14.40				
15	16QAM	75	0	14.40	14.40	14.40				
Channel				2150	2190	2190	Turn-on (dBm)	MPR (dB)		
Frequency (MHz)										
10	QPSK	1	0	14.51	14.50	14.48				
10	QPSK	1	20	14.38	14.40	14.40	16	0		
10	QPSK	1	40	14.33	14.40	14.40				
10	QPSK	25	0	14.48	14.48	14.46				
10	QPSK	25	12	14.48	14.48	14.46	16	0		
10	QPSK	25	24	14.42	14.47	14.41				
10	QPSK	50	0	14.36	14.48	14.42				
10	16QAM	1	0	14.40	14.40	14.40				
10	16QAM	1	49	14.36	14.44	14.39	16	0		
10	16QAM	25	0	14.40	14.40	14.40				
10	16QAM	25	12	14.40	14.43	14.40				
10	16QAM	25	25	14.36	14.43	14.44	16	0		
10	16QAM	50	0	14.44	14.45	14.40				
10	16QAM	1	0	14.45	14.47	14.38				
10	16QAM	1	25	14.43	14.39	14.42	16	0		
10	16QAM	1	49	14.40	14.42	14.42				
10	16QAM	25	0	14.40	14.35	14.43				
10	16QAM	25	12	14.43	14.37	14.38	16	0		
10	16QAM	25	25	14.40	14.44	14.42				
10	16QAM	50	0	14.41	14.41	14.35				
10	256QAM	1	0	14.49	14.50	14.50				
10	256QAM	1	25	14.51	14.50	14.48	16	0		
10	256QAM	1	49	14.52	14.44	14.53				
10	256QAM	25	0	14.41	14.45	14.50				
10	256QAM	25	12	14.42	14.36	14.37	16	0		
10	256QAM	25	25	14.41	14.45	14.46				
10	256QAM	50	0	14.35	14.39	14.50				
Channel				2190	2190	2190	Turn-on (dBm)	MPR (dB)		
Frequency (MHz)										
5	QPSK	1	0	14.40	14.41	14.40				
5	QPSK	1	18	14.44	14.43	14.43	16	0		
5	QPSK	1	24	14.41	14.46	14.46				
5	QPSK	12	0	14.46	14.47	14.43				
5	QPSK	12	7	14.38	14.43	14.30	16	0		
5	QPSK	12	13	14.47	14.41	14.45				
5	QPSK	25	0	14.38	14.41	14.38				
5	16QAM	1	0	14.47	14.46	14.46				
5	16QAM	1	12	14.39	14.32	14.35	16	0		
5	16QAM	1	24	14.34	14.40	14.40				
5	16QAM	12	0	14.37	14.40	14.40				
5	16QAM	12	7	14.34	14.44	14.41	16	0		
5	16QAM	12	13	14.46	14.38	14.31				
5	16QAM	25	0	14.40	14.35	14.43				
5	16QAM	1	0	14.48	14.44	14.45				
5	16QAM	1	12	14.39	14.47	14.46	16	0		
5	16QAM	1	24	14.31	14.37	14.50				
5	16QAM	12	0	14.38	14.45	14.33				
5	16QAM	12	7	14.36	14.41	14.37	16	0		
5	16QAM	12	13	14.44	14.33	14.30				
5	16QAM	25	0	14.42	14.46	14.35				
5	16QAM	1	0	14.49	14.50	14.42	16	0		
5	16QAM	1	12	14.46	14.52	14.42				
5	256QAM	1	0	14.40	14.37	14.42				
5	256QAM	12	7	14.38	14.34	14.38	16	0		
5	256QAM	12	13	14.35	14.41	14.44				
5	256QAM	25	0	14.44	14.46	14.37				

Band 7_Ant 5										
BW (MHz)	Modulation	FD Size	FD Offset	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Turn-on (dBm)	MPR (dB)		
Channel				2050	2100	2150				
Frequency (MHz)										
20	QPSK	1	0	16.38	16.47	16.42				
20	QPSK	1	49	16.34	16.39	16.38	17.5	0		
20	QPSK	1	49	16.34	16.39	16.38				
20	QPSK	50	0	16.34	16.37	16.36				
20	QPSK	50	24	16.30	16.29	16.24	17.5	0		
20	QPSK	50	24	16.33	16.32	16.25				
20	QPSK	100	0	16.37	16.40	16.35				
20	16QAM	1	0	16.37	16.36	16.31				
20	16QAM	1	49	16.36	16.36	16.40	17.5	0		
20	16QAM	1	99	16.38	16.37	16.42				
20	16QAM	50	0	16.36	16.32	16.35				
20	16QAM	50	24	16.41	16.41	16.43	17.5	0		
20	16QAM	50	50	16.35	16.37	16.41				
20	16QAM	100	0	16.30	16.31	16.35				
20	16QAM	1	49	16.32	16.30	16.29	17.5	0		
20	16QAM	1	49	16.33	16.31	16.32				
20	16QAM	99	16.30	16.33	16.31					
20	16QAM	50	0	16.28	16.29	16.30				
20	16QAM	50	24	16.41	16.36	16.41	17.5	0		
20	16QAM	50	50	16.31	16.29	16.34				
20	16QAM	100	0	16.30	16.30	16.29				
20	256QAM	1	0	16.34	16.27	16.27				
20	256QAM	1	49	16.31	16.29	16.29	17.5	0		
20	256QAM	1	99	16.46	16.42	16.41				
20	256QAM	50	0	16.33	16.32	16.34				
20	256QAM	50	24	16.30	16.27	16.26	17.5	0		
20	256QAM	50	50	16.31	16.36	16.35				
20	256QAM	100	0	16.33	16.35	16.38				
Channel				2100	2100	2100	Turn-on (dBm)	MPR (dB)		
Frequency (MHz)										
15	QPSK	1	0	16.34	16.42	16.28				
15	QPSK	1	37	16.28	16.33	16.22	17.5	0		
15	QPSK	1	74	16.29	16.29	16.29				
15	QPSK	36	0	16.19	16.20	16.21				
15	QPSK	36	20	16.12	16.19	16.12	17.5	0		
15	QPSK	36	59	16.27	16.26	16.18				
15	QPSK	75	0	16.19	16.27	16.16				
15	16QAM	1	0	16.30	16.22	16.17				
15	16QAM	1	37	16.16	16.26	16.25	17.5	0		
15	16QAM	1	74	16.29	16.24	16.25				
15	16QAM	36	0	16.15	16.15	16.15				
15	1									



**Full Power level/Default Power level for 5G NR-ENDC**  
For DFT-15

n7_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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	23.46	23.47	23.36	24.5	0.0
50	PI/2 BPSK	1	135	23.12	23.15	23.09		
50	PI/2 BPSK	1	268	23.30	23.40	23.28		
50	PI/2 BPSK	135	0	23.22	23.23	23.16	24.0	0.5
50	PI/2 BPSK	135	68	23.24	23.28	23.18	24.5	0.0
50	PI/2 BPSK	135	135	23.12	23.18	23.09	24.0	0.5
50	PI/2 BPSK	270	0	23.23	23.25	23.17		
50	QPSK	1	1	23.32	23.39	23.28	24.5	0.0
50	QPSK	1	135	23.04	23.12	22.96		
50	QPSK	1	268	23.31	23.31	23.15		
50	QPSK	135	0	22.63	22.64	22.52	23.5	1.0
50	QPSK	135	68	23.10	23.17	23.05	24.5	0.0
50	QPSK	135	135	22.46	22.53	22.43	23.5	1.0
50	QPSK	270	0	22.53	22.63	22.56		
50	16QAM	1	1	22.61	22.62	22.52	23.5	1.0
50	64QAM	1	1	21.19	21.26	21.19	22.0	2.5
50	256QAM	1	1	19.88	19.98	19.83	20.0	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	23.33	23.40	23.20	24.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	23.33	23.35	23.30	24.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	23.33	23.38	23.22	24.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.31	23.37	23.31	24.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	23.30	23.32	23.26	24.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	23.35	23.38	23.28	24.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	23.30	23.33	23.28	24.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	21.93	21.95	21.85	22.5	0.0
50	PI/2 BPSK	1	135	21.65	21.69	21.63		
50	PI/2 BPSK	1	268	21.84	21.94	21.83		
50	PI/2 BPSK	135	0	21.68	21.69	21.67	22.0	0.5
50	PI/2 BPSK	135	68	21.70	21.71	21.68	22.5	0.0
50	PI/2 BPSK	135	135	21.69	21.70	21.65	22.0	0.5
50	PI/2 BPSK	270	0	21.72	21.73	21.68		
50	QPSK	1	1	21.76	21.86	21.70	22.5	0.0
50	QPSK	1	135	21.58	21.69	21.58		
50	QPSK	1	268	21.77	21.83	21.76		
50	QPSK	135	0	21.21	21.35	21.20	21.5	1.0
50	QPSK	135	68	21.50	21.55	21.46	22.5	0.0
50	QPSK	135	135	21.41	21.44	21.39	21.5	1.0
50	QPSK	270	0	21.29	21.39	21.28		
50	16QAM	1	1	21.30	21.36	21.29	21.5	1.0
50	64QAM	1	1	19.87	19.99	19.86	20.0	2.5
50	256QAM	1	1	17.77	17.83	17.71	18.0	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	21.81	21.90	21.80	22.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	21.78	21.88	21.73	22.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	21.81	21.85	21.78	22.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	21.79	21.90	21.79	22.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	21.86	21.89	21.73	22.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	21.83	21.87	21.75	22.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	21.78	21.90	21.76	22.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.25	22.28	22.17	23.5	0.0
50	PI/2 BPSK	1	135	21.80	21.84	21.79		
50	PI/2 BPSK	1	268	22.11	22.26	22.10		
50	PI/2 BPSK	135	0	21.53	21.58	21.47	23.0	0.5
50	PI/2 BPSK	135	68	21.98	22.02	21.92	23.5	0.0
50	PI/2 BPSK	135	135	21.50	21.53	21.39	23.0	0.5
50	PI/2 BPSK	270	0	21.49	21.54	21.42		
50	QPSK	1	1	22.11	22.18	22.05	23.5	0.0
50	QPSK	1	135	21.89	21.95	21.89		
50	QPSK	1	268	22.07	22.10	22.00		
50	QPSK	135	0	20.98	21.00	20.88	22.5	1.0
50	QPSK	135	68	21.88	21.90	21.82	23.5	0.0
50	QPSK	135	135	20.84	20.91	20.80	22.5	1.0
50	QPSK	270	0	20.87	20.92	20.78		
50	16QAM	1	1	20.92	20.93	20.86	22.5	1.0
50	64QAM	1	1	19.42	19.52	19.40	21.0	2.5
50	256QAM	1	1	18.08	18.17	18.04	19.0	4.5
Channel				504000	507000	510000	Tune-up limit	MPR
Frequency (MHz)				2520	2535	2550	(dBm)	(dB)
40	PI/2 BPSK	1	1	22.11	22.15	22.05	23.5	0.0
Channel				503000	507000	511000	Tune-up limit	MPR
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)
30	PI/2 BPSK	1	1	22.10	22.16	22.02	23.5	0.0
Channel				502500	507000	511500	Tune-up limit	MPR
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)
25	PI/2 BPSK	1	1	22.11	22.16	22.03	23.5	0.0
Channel				502000	507000	512000	Tune-up limit	MPR
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)
20	PI/2 BPSK	1	1	22.10	22.23	22.09	23.5	0.0
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	PI/2 BPSK	1	1	22.15	22.16	22.08	23.5	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	PI/2 BPSK	1	1	22.13	22.17	22.06	23.5	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	PI/2 BPSK	1	1	22.15	22.18	22.09	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	24.03	24.12	23.96	25.0	0.0
50	PI/2 BPSK	1	135	23.81	23.82	23.80		
50	PI/2 BPSK	1	268	23.94	24.11	23.90		
50	PI/2 BPSK	135	0	23.30	23.35	23.28	24.5	0.5
50	PI/2 BPSK	135	68	23.82	23.88	23.80	25.0	0.0
50	PI/2 BPSK	135	135	23.34	23.41	23.32	24.5	0.5
50	PI/2 BPSK	270	0	23.33	23.35	23.26		
50	QPSK	1	1	24.04	24.08	23.95	25.0	0.0
50	QPSK	1	135	23.72	23.78	23.70		
50	QPSK	1	268	23.95	24.06	23.91		
50	QPSK	135	0	22.68	22.79	22.64	24.0	1.0
50	QPSK	135	68	23.77	23.80	23.72	25.0	0.0
50	QPSK	135	135	22.74	22.82	22.69	24.0	1.0
50	QPSK	270	0	22.77	22.80	22.65		
50	16QAM	1	1	22.70	22.81	22.74	24.0	1.0
50	64QAM	1	1	21.38	21.36	21.30	22.5	2.5
50	256QAM	1	1	19.32	19.38	19.22	20.5	4.5
Channel				504000	507000	510000	Tune-up limit	MPR
Frequency (MHz)				2520	2535	2550	(dBm)	(dB)
40	PI/2 BPSK	1	1	23.87	23.96	23.84	25.0	0.0
Channel				503000	507000	511000	Tune-up limit	MPR
Frequency (MHz)				2515	2535	2555	(dBm)	(dB)
30	PI/2 BPSK	1	1	23.95	24.06	23.89	25.0	0.0
Channel				502500	507000	511500	Tune-up limit	MPR
Frequency (MHz)				2512.5	2535	2557.5	(dBm)	(dB)
25	PI/2 BPSK	1	1	23.87	24.00	23.85	25.0	0.0
Channel				502000	507000	512000	Tune-up limit	MPR
Frequency (MHz)				2510	2535	2560	(dBm)	(dB)
20	PI/2 BPSK	1	1	23.90	24.02	23.80	25.0	0.0
Channel				501500	507000	512500	Tune-up limit	MPR
Frequency (MHz)				2507.5	2535	2562.5	(dBm)	(dB)
15	PI/2 BPSK	1	1	23.93	24.06	23.91	25.0	0.0
Channel				501000	507000	513000	Tune-up limit	MPR
Frequency (MHz)				2505	2535	2565	(dBm)	(dB)
10	PI/2 BPSK	1	1	23.92	23.99	23.87	25.0	0.0
Channel				500500	507000	513500	Tune-up limit	MPR
Frequency (MHz)				2502.5	2535	2567.5	(dBm)	(dB)
5	PI/2 BPSK	1	1	23.97	24.01	23.89	25.0	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	23.46	23.47	23.36	24.5	0.0
50	PI/2 BPSK	1	135	23.12	23.15	23.09		
50	PI/2 BPSK	1	268	23.30	23.40	23.28		
50	PI/2 BPSK	135	0	23.22	23.23	23.16	24.0	0.5
50	PI/2 BPSK	135	68	23.24	23.26	23.18	24.5	0.0
50	PI/2 BPSK	135	135	23.12	23.18	23.09	24.0	0.5
50	PI/2 BPSK	270	0	23.23	23.25	23.17		
50	PI/2 BPSK	1	1	23.32	23.39	23.28		
50	QPSK	1	1	23.04	23.12	22.96	24.5	0.0
50	QPSK	1	135	23.31	23.31	23.15		
50	QPSK	1	268	23.31	23.31	23.15		
50	QPSK	135	0	22.63	22.64	22.52	23.5	1.0
50	QPSK	135	68	23.10	23.17	23.05	24.5	0.0
50	QPSK	135	135	22.46	22.53	22.43	23.5	1.0
50	QPSK	270	0	22.53	22.63	22.56		
50	16QAM	1	1	22.61	22.66	22.52	23.5	1.0
50	64QAM	1	1	21.19	21.26	21.19	22.0	2.5
50	256QAM	1	1	19.88	19.98	19.83	20.0	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	23.33	23.40	23.20	24.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	23.33	23.35	23.30	24.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	23.33	23.38	23.22	24.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.31	23.37	23.31	24.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	23.30	23.32	23.25	24.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	23.35	23.38	23.28	24.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	23.30	23.33	23.28	24.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	21.93	21.95	21.85	22.5	0.0
50	PI/2 BPSK	1	135	21.65	21.69	21.63		
50	PI/2 BPSK	1	268	21.84	21.94	21.83		
50	PI/2 BPSK	135	0	21.68	21.69	21.67	22.0	0.5
50	PI/2 BPSK	135	68	21.70	21.71	21.68	22.5	0.0
50	PI/2 BPSK	135	135	21.69	21.70	21.65	22.0	0.5
50	PI/2 BPSK	270	0	21.72	21.73	21.68		
50	PI/2 BPSK	1	1	21.76	21.86	21.70		
50	QPSK	1	1	21.76	21.86	21.70	22.5	0.0
50	QPSK	1	135	21.58	21.69	21.58		
50	QPSK	1	268	21.77	21.83	21.76		
50	QPSK	135	0	21.21	21.35	21.20	21.5	1.0
50	QPSK	135	68	21.50	21.55	21.46	22.5	0.0
50	QPSK	135	135	21.41	21.44	21.39	21.5	1.0
50	QPSK	270	0	21.29	21.39	21.28		
50	16QAM	1	1	21.30	21.36	21.29	21.5	1.0
50	64QAM	1	1	19.87	19.99	19.86	20.0	2.5
50	256QAM	1	1	17.77	17.83	17.71	18.0	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	21.81	21.90	21.80	22.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	21.78	21.88	21.73	22.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	21.81	21.85	21.78	22.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	21.79	21.90	21.79	22.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	21.86	21.89	21.73	22.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	21.83	21.87	21.75	22.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	21.78	21.90	21.76	22.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	14.58	14.66	14.59		
50	PI/2 BPSK	1	135	14.52	14.62	14.52	15.5	0.0
50	PI/2 BPSK	1	268	14.52	14.65	14.52		
50	PI/2 BPSK	135	0	14.51	14.58	14.59	15.5	0.0
50	PI/2 BPSK	135	68	14.59	14.62	14.60	15.5	0.0
50	PI/2 BPSK	135	135	14.56	14.53	14.50		
50	PI/2 BPSK	270	0	14.64	14.65	14.58	15.5	0.0
50	QPSK	1	1	14.60	14.56	14.58		
50	QPSK	1	135	14.60	14.55	14.59	15.5	0.0
50	QPSK	1	268	14.57	14.54	14.58		
50	QPSK	135	0	14.59	14.57	14.53	15.5	0.0
50	QPSK	135	68	14.54	14.56	14.61	15.5	0.0
50	QPSK	135	135	14.53	14.55	14.57	15.5	0.0
50	QPSK	270	0	14.56	14.58	14.64		
50	16QAM	1	1	14.63	14.60	14.60	15.5	0.0
50	64QAM	1	1	14.65	14.62	14.64	15.5	0.0
50	256QAM	1	1	14.61	14.50	14.61	15.5	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	14.52	14.48	14.45	15.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	14.46	14.57	14.49	15.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	14.42	14.49	14.47	15.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	14.45	14.53	14.46	15.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	14.38	14.52	14.41	15.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	14.47	14.61	14.39	15.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	14.39	14.51	14.46	15.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	13.18	13.28	13.16		
50	PI/2 BPSK	1	135	13.16	13.18	13.12	14.0	0.0
50	PI/2 BPSK	1	268	13.14	13.13	13.13		
50	PI/2 BPSK	135	0	13.06	13.11	13.14	14.0	0.0
50	PI/2 BPSK	135	68	13.14	13.25	13.15	14.0	0.0
50	PI/2 BPSK	135	135	13.08	13.18	13.10		
50	PI/2 BPSK	270	0	13.19	13.24	13.20	14.0	0.0
50	QPSK	1	1	13.27	13.26	13.25		
50	QPSK	1	135	13.22	13.15	13.21	14.0	0.0
50	QPSK	1	268	13.12	13.13	13.12		
50	QPSK	135	0	13.14	13.13	13.14	14.0	0.0
50	QPSK	135	68	13.18	13.17	13.18	14.0	0.0
50	QPSK	135	135	13.19	13.15	13.13	14.0	0.0
50	QPSK	270	0	13.23	13.26	13.10		
50	16QAM	1	1	13.12	13.18	13.19	14.0	0.0
50	64QAM	1	1	13.16	13.19	13.17	14.0	0.0
50	256QAM	1	1	13.17	13.05	13.23	14.0	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	13.04	13.10	12.98	14.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	13.00	13.16	13.04	14.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	12.98	13.09	12.96	14.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	13.02	13.10	13.03	14.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	13.02	13.22	13.06	14.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	13.12	13.13	13.06	14.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	13.13	13.21	13.02	14.0	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	21.47	21.49	21.43	22.5	0.0
50	PI/2 BPSK	1	135	21.32	21.36	21.33		
50	PI/2 BPSK	1	268	21.40	21.44	21.42		
50	PI/2 BPSK	135	0	21.38	21.38	21.36	22.5	0.0
50	PI/2 BPSK	135	68	21.46	21.47	21.45	22.5	0.0
50	PI/2 BPSK	135	135	21.40	21.44	21.42	22.5	0.0
50	PI/2 BPSK	270	0	21.41	21.42	21.41		
50	QPSK	1	1	21.44	21.48	21.46		
50	QPSK	1	135	21.41	21.43	21.41	22.5	0.0
50	QPSK	1	268	21.44	21.46	21.42		
50	QPSK	135	0	21.32	21.34	21.33		
50	QPSK	135	68	21.42	21.45	21.40	22.5	0.0
50	QPSK	135	135	21.35	21.39	21.39	22.5	0.0
50	QPSK	270	0	21.30	21.31	21.29		
50	16QAM	1	1	21.41	21.45	21.40		
50	64QAM	1	1	21.40	21.44	21.39	22.0	0.5
50	256QAM	1	1	19.20	19.22	19.16	20.0	2.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	21.29	21.37	21.23	22.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	21.38	21.41	21.24	22.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	21.38	21.37	21.34	22.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	21.39	21.35	21.23	22.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	21.39	21.40	21.30	22.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	21.28	21.41	21.32	22.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	21.34	21.30	21.35	22.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	19.93	19.97	19.91	20.5	0.0
50	PI/2 BPSK	1	135	19.91	19.95	19.90		
50	PI/2 BPSK	1	268	19.84	19.88	19.83		
50	PI/2 BPSK	135	0	19.84	19.87	19.83	20.5	0.0
50	PI/2 BPSK	135	68	19.94	19.95	19.91	20.5	0.0
50	PI/2 BPSK	135	135	19.86	19.90	19.86	20.5	0.0
50	PI/2 BPSK	270	0	19.87	19.89	19.84		
50	QPSK	1	1	19.90	19.94	19.91		
50	QPSK	1	135	19.92	19.96	19.90	20.5	0.0
50	QPSK	1	268	19.93	19.96	19.93		
50	QPSK	135	0	19.89	19.89	19.85		
50	QPSK	135	68	19.91	19.93	19.89	20.5	0.0
50	QPSK	135	135	19.85	19.89	19.87	20.5	0.0
50	QPSK	270	0	19.85	19.88	19.85		
50	16QAM	1	1	19.92	19.95	19.89		
50	64QAM	1	1	19.95	19.95	19.92	20.0	0.5
50	256QAM	1	1	17.70	17.70	17.64	18.0	2.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	19.80	19.82	19.84	20.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	19.79	19.90	19.81	20.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	19.85	19.87	19.84	20.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	19.82	19.91	19.73	20.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	19.84	19.89	19.74	20.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	19.82	19.80	19.78	20.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	19.88	19.82	19.81	20.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	19.08	19.54	19.00	20.5	0.0
50	PI/2 BPSK	1	135	18.81	18.77	18.78		
50	PI/2 BPSK	1	268	19.07	19.23	18.94		
50	PI/2 BPSK	135	0	18.88	19.08	18.86	20.5	0.0
50	PI/2 BPSK	135	68	19.07	19.52	19.01	20.5	0.0
50	PI/2 BPSK	135	135	19.06	18.93	18.81	20.5	0.0
50	PI/2 BPSK	270	0	18.88	19.22	18.86		
50	QPSK	1	1	18.65	18.73	18.70		
50	QPSK	1	135	19.06	18.82	18.81	20.5	0.0
50	QPSK	1	268	18.87	18.87	18.79		
50	QPSK	135	0	19.00	19.15	18.94		
50	QPSK	135	68	18.84	18.68	18.82	20.5	0.0
50	QPSK	135	135	19.13	19.21	18.91	20.5	0.0
50	QPSK	270	0	18.91	19.04	18.86		
50	16QAM	1	1	18.98	19.21	19.04		
50	64QAM	1	1	19.06	18.93	18.81	20.5	0.0
50	256QAM	1	1	17.38	17.72	17.36	19.0	1.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	18.90	19.07	18.82	20.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	18.97	19.07	18.82	20.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	18.88	19.19	18.95	20.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	19.01	19.17	18.94	20.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	18.89	19.11	18.89	20.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	18.94	19.17	18.83	20.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	19.01	19.08	18.82	20.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	19.35	19.60	19.30	20.5	0.0
50	PI/2 BPSK	1	135	19.31	19.34	19.28		
50	PI/2 BPSK	1	268	19.22	19.30	19.14		
50	PI/2 BPSK	135	0	19.12	19.13	19.12	20.5	0.0
50	PI/2 BPSK	135	68	19.13	19.58	19.15	20.5	0.0
50	PI/2 BPSK	135	135	19.12	19.10	19.14	20.5	0.0
50	PI/2 BPSK	270	0	19.06	19.12	19.06		
50	QPSK	1	1	19.01	19.09	18.93		
50	QPSK	1	135	19.09	19.11	19.07	20.5	0.0
50	QPSK	1	268	19.12	19.06	19.18		
50	QPSK	135	0	18.99	19.08	18.90		
50	QPSK	135	68	19.17	19.11	19.15	20.5	0.0
50	QPSK	135	135	18.91	19.13	18.97	20.5	0.0
50	QPSK	270	0	19.00	19.09	18.91		
50	16QAM	1	1	18.98	19.16	19.05		
50	64QAM	1	1	19.13	19.12	19.14	20.5	0.0
50	256QAM	1	1	19.32	19.38	19.22	20.5	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	19.23	19.43	19.18	20.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	19.26	19.53	19.13	20.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	19.25	19.47	19.19	20.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	19.21	19.46	19.18	20.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	19.19	19.43	19.17	20.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	19.26	19.44	19.13	20.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	19.28	19.49	19.12	20.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	23.46	23.47	23.36	24.5	0.0
50	PI/2 BPSK	1	135	23.12	23.15	23.09		
50	PI/2 BPSK	1	268	23.30	23.40	23.28		
50	PI/2 BPSK	135	0	23.22	23.23	23.16	24.0	0.5
50	PI/2 BPSK	135	68	23.24	23.26	23.18	24.5	0.0
50	PI/2 BPSK	135	135	23.12	23.18	23.09	24.0	0.5
50	PI/2 BPSK	270	0	23.23	23.25	23.17		
50	PI/2 BPSK	1	1	23.32	23.39	23.28		
50	QPSK	1	1	23.04	23.12	22.96	24.5	0.0
50	QPSK	1	135	23.31	23.31	23.15		
50	QPSK	1	268	23.31	23.31	23.15		
50	QPSK	135	0	22.63	22.64	22.52	23.5	1.0
50	QPSK	135	68	23.10	23.17	23.05	24.5	0.0
50	QPSK	135	135	22.46	22.53	22.43	23.5	1.0
50	QPSK	270	0	22.53	22.63	22.56		
50	QPSK	1	1	22.61	22.66	22.52		
50	16QAM	1	1	21.19	21.26	21.19	22.0	2.5
50	256QAM	1	1	19.88	19.98	19.83	20.0	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	23.33	23.40	23.20	24.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	23.33	23.35	23.30	24.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	23.33	23.38	23.22	24.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	23.31	23.37	23.31	24.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	23.30	23.32	23.25	24.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	23.35	23.38	23.28	24.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	23.30	23.33	23.28	24.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	21.93	21.95	21.85	22.5	0.0
50	PI/2 BPSK	1	135	21.65	21.69	21.63		
50	PI/2 BPSK	1	268	21.84	21.94	21.83		
50	PI/2 BPSK	135	0	21.68	21.69	21.67	22.0	0.5
50	PI/2 BPSK	135	68	21.70	21.71	21.68	22.5	0.0
50	PI/2 BPSK	135	135	21.69	21.70	21.65	22.0	0.5
50	PI/2 BPSK	270	0	21.72	21.73	21.68		
50	PI/2 BPSK	1	1	21.76	21.86	21.70		
50	QPSK	1	1	21.76	21.86	21.70	22.5	0.0
50	QPSK	1	135	21.58	21.69	21.58		
50	QPSK	1	268	21.77	21.83	21.76		
50	QPSK	135	0	21.21	21.35	21.20	21.5	1.0
50	QPSK	135	68	21.50	21.55	21.46	22.5	0.0
50	QPSK	135	135	21.41	21.44	21.39	21.5	1.0
50	QPSK	270	0	21.29	21.39	21.28		
50	QPSK	1	1	21.30	21.36	21.29		
50	16QAM	1	1	19.87	19.99	19.86	20.0	2.5
50	256QAM	1	1	17.77	17.83	17.71	18.0	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	21.81	21.90	21.80	22.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	21.78	21.88	21.73	22.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	21.81	21.85	21.78	22.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	21.79	21.90	21.79	22.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	21.86	21.89	21.73	22.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	21.83	21.87	21.75	22.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	21.78	21.90	21.76	22.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.25	22.28	22.17	23.5	0.0
50	PI/2 BPSK	1	135	21.80	21.84	21.79		
50	PI/2 BPSK	1	268	22.11	22.26	22.10		
50	PI/2 BPSK	135	0	21.63	21.58	21.47	23.0	0.5
50	PI/2 BPSK	135	68	21.98	22.02	21.92	23.5	0.0
50	PI/2 BPSK	135	135	21.50	21.53	21.39	23.0	0.5
50	PI/2 BPSK	270	0	21.49	21.54	21.42		
50	QPSK	1	1	22.11	22.18	22.05	23.5	0.0
50	QPSK	1	135	21.89	21.95	21.89		
50	QPSK	1	268	22.07	22.10	22.00		
50	QPSK	135	0	20.98	21.00	20.88	22.5	1.0
50	QPSK	135	68	21.88	21.90	21.82	23.5	0.0
50	QPSK	135	135	20.84	20.91	20.80	22.5	1.0
50	QPSK	270	0	20.87	20.92	20.78		
50	16QAM	1	1	20.92	20.93	20.86	22.5	1.0
50	64QAM	1	1	19.42	19.52	19.40	21.0	2.5
50	256QAM	1	1	18.08	18.17	18.04	19.0	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	22.11	22.15	22.05	23.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	22.10	22.16	22.02	23.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	22.11	22.16	22.03	23.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	22.10	22.23	22.09	23.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	22.15	22.16	22.08	23.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	22.13	22.17	22.06	23.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	22.15	22.18	22.09	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	22.05	22.14	21.98	23.0	0.0
50	PI/2 BPSK	1	135	21.63	21.84	21.82		
50	PI/2 BPSK	1	268	21.96	22.13	21.92		
50	PI/2 BPSK	135	0	21.32	21.37	21.30	22.5	0.5
50	PI/2 BPSK	135	68	21.84	21.90	21.82	23.0	0.0
50	PI/2 BPSK	135	135	21.36	21.43	21.34	22.5	0.5
50	PI/2 BPSK	270	0	21.35	21.37	21.28		
50	QPSK	1	1	22.06	22.10	21.97	23.0	0.0
50	QPSK	1	135	21.74	21.80	21.72		
50	QPSK	1	268	21.97	22.08	21.93		
50	QPSK	135	0	20.70	20.81	20.66	22.0	1.0
50	QPSK	135	68	21.79	21.82	21.74	23.0	0.0
50	QPSK	135	135	20.76	20.84	20.71	22.0	1.0
50	QPSK	270	0	20.79	20.82	20.67		
50	16QAM	1	1	20.72	20.83	20.76	22.0	1.0
50	64QAM	1	1	19.38	19.38	19.32	20.5	2.5
50	256QAM	1	1	17.34	17.40	17.24	18.5	4.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	21.89	21.98	21.86	23.0	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	21.97	22.08	21.91	23.0	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	21.89	22.02	21.87	23.0	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	21.92	22.04	21.82	23.0	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	21.95	22.08	21.93	23.0	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	21.94	22.01	21.89	23.0	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	21.99	22.03	21.91	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	21.47	21.49	21.43	22.5	0.0
50	PI/2 BPSK	1	135	21.32	21.36	21.33		
50	PI/2 BPSK	1	268	21.40	21.44	21.42		
50	PI/2 BPSK	135	0	21.38	21.38	21.36	22.5	0.0
50	PI/2 BPSK	135	68	21.46	21.47	21.45	22.5	0.0
50	PI/2 BPSK	135	135	21.40	21.44	21.42	22.5	0.0
50	PI/2 BPSK	270	0	21.41	21.42	21.41		
50	QPSK	1	1	21.44	21.48	21.46		
50	QPSK	1	135	21.41	21.43	21.41	22.5	0.0
50	QPSK	1	268	21.44	21.46	21.42		
50	QPSK	135	0	21.32	21.34	21.33		
50	QPSK	135	68	21.42	21.45	21.40	22.5	0.0
50	QPSK	135	135	21.35	21.39	21.39	22.5	0.0
50	QPSK	270	0	21.30	21.31	21.29		
50	16QAM	1	1	21.41	21.45	21.40		
50	64QAM	1	1	21.40	21.44	21.39	22.0	0.5
50	256QAM	1	1	19.20	19.22	19.16	20.0	2.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	21.29	21.37	21.23	22.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	21.38	21.41	21.24	22.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	21.38	21.37	21.34	22.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	21.39	21.35	21.23	22.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	21.39	21.40	21.30	22.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	21.28	21.41	21.32	22.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	21.34	21.30	21.35	22.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	19.93	19.97	19.91	20.5	0.0
50	PI/2 BPSK	1	135	19.91	19.95	19.90		
50	PI/2 BPSK	1	268	19.84	19.88	19.83		
50	PI/2 BPSK	135	0	19.84	19.87	19.83	20.5	0.0
50	PI/2 BPSK	135	68	19.94	19.95	19.91	20.5	0.0
50	PI/2 BPSK	135	135	19.86	19.90	19.86	20.5	0.0
50	PI/2 BPSK	270	0	19.87	19.89	19.84		
50	QPSK	1	1	19.90	19.94	19.91		
50	QPSK	1	135	19.92	19.96	19.90	20.5	0.0
50	QPSK	1	268	19.93	19.96	19.93		
50	QPSK	135	0	19.89	19.89	19.85		
50	QPSK	135	68	19.91	19.93	19.89	20.5	0.0
50	QPSK	135	135	19.85	19.89	19.87	20.5	0.0
50	QPSK	270	0	19.85	19.88	19.85		
50	16QAM	1	1	19.92	19.95	19.89		
50	64QAM	1	1	19.95	19.95	19.92	20.0	0.5
50	256QAM	1	1	17.70	17.70	17.64	18.0	2.5
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	19.80	19.82	19.84	20.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	19.79	19.90	19.81	20.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	19.85	19.87	19.84	20.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	19.82	19.91	19.73	20.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	19.84	19.89	19.74	20.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	19.82	19.80	19.78	20.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	19.88	19.82	19.81	20.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	16.12	16.15	16.13	17.5	0.0
50	PI/2 BPSK	1	135	16.09	16.08	16.12		
50	PI/2 BPSK	1	268	16.11	16.05	16.11		
50	PI/2 BPSK	135	0	16.01	15.99	15.98	17.5	0.0
50	PI/2 BPSK	135	68	16.02	16.13	16.10	17.5	0.0
50	PI/2 BPSK	135	135	15.99	16.04	16.07	17.5	0.0
50	PI/2 BPSK	270	0	16.07	16.10	16.02		
50	QPSK	1	1	15.98	16.02	16.00		
50	QPSK	1	135	16.05	16.08	16.05	17.5	0.0
50	QPSK	1	268	16.05	16.10	16.06		
50	QPSK	135	0	16.05	16.07	16.10		
50	QPSK	135	68	16.00	15.98	15.94	17.5	0.0
50	QPSK	135	135	16.12	16.09	16.12	17.5	0.0
50	QPSK	270	0	16.05	16.01	15.99		
50	16QAM	1	1	16.08	16.13	16.09		
50	64QAM	1	1	16.06	16.04	16.06	17.5	0.0
50	256QAM	1	1	16.06	16.06	16.10	17.5	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	15.93	16.06	16.05	17.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	15.96	16.05	16.03	17.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	15.95	16.06	16.08	17.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	16.01	16.09	16.02	17.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	15.93	16.09	15.96	17.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	16.02	16.01	15.95	17.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	16.02	15.96	15.97	17.5	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				505000	507000	509000		
Frequency (MHz)				2525	2535	2545		
50	PI/2 BPSK	1	1	16.85	16.95	16.87	17.5	0.0
50	PI/2 BPSK	1	135	16.84	16.85	16.86		
50	PI/2 BPSK	1	268	16.80	16.85	16.82		
50	PI/2 BPSK	135	0	16.85	16.84	16.77	17.5	0.0
50	PI/2 BPSK	135	68	16.90	16.92	16.85	17.5	0.0
50	PI/2 BPSK	135	135	16.83	16.82	16.82	17.5	0.0
50	PI/2 BPSK	270	0	16.88	16.91	16.85		
50	QPSK	1	1	16.91	16.87	16.86		
50	QPSK	1	135	16.90	16.84	16.89	17.5	0.0
50	QPSK	1	268	16.89	16.93	16.89		
50	QPSK	135	0	16.81	16.85	16.84		
50	QPSK	135	68	16.86	16.92	16.90	17.5	0.0
50	QPSK	135	135	16.89	16.90	16.94	17.5	0.0
50	QPSK	270	0	16.92	16.87	16.91		
50	16QAM	1	1	16.85	16.83	16.77		
50	64QAM	1	1	16.85	16.86	16.93	17.5	0.0
50	256QAM	1	1	16.82	16.88	16.86	17.5	0.0
Channel				504000	507000	510000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2520	2535	2550		
40	PI/2 BPSK	1	1	16.73	16.88	16.69	17.5	0.0
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2515	2535	2555		
30	PI/2 BPSK	1	1	16.69	16.88	16.80	17.5	0.0
Channel				502500	507000	511500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2512.5	2535	2557.5		
25	PI/2 BPSK	1	1	16.77	16.90	16.75	17.5	0.0
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2510	2535	2560		
20	PI/2 BPSK	1	1	16.74	16.83	16.79	17.5	0.0
Channel				501500	507000	512500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	PI/2 BPSK	1	1	16.77	16.77	16.68	17.5	0.0
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	PI/2 BPSK	1	1	16.71	16.75	16.79	17.5	0.0
Channel				500500	507000	513500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	PI/2 BPSK	1	1	16.72	16.90	16.80	17.5	0.0



UL Intra-CA Power

CA_7C - ANT0 Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Full Power	21.82	23.00
21100	20902	QPSK	1	0	0	0	1	0	Full Power	21.50	23.00
21350	21152	QPSK	1	0	0	0	1	0	Full Power	21.65	23.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 0	21.82	23.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 0	21.50	23.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 0	21.65	23.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 1	20.04	21.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 1	20.01	21.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 1	20.02	21.50
20850	21048	QPSK	1	0	0	0	1	0	DSI 3	21.82	23.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 3	21.50	23.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 3	21.65	23.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 4	20.04	21.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 4	20.01	21.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 4	20.02	21.50

CA_38C - ANT0 Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	0	0	1	0	Full Power	22.72	24.00
37901	38099	QPSK	1	99	0	0	1	0	Full Power	22.67	24.00
38150	37952	QPSK	1	99	0	0	1	0	Full Power	22.45	24.00
37850	38048	QPSK	1	99	0	0	1	0	DSI 0	22.72	24.00
37901	38099	QPSK	1	99	0	0	1	0	DSI 0	22.67	24.00
38150	37952	QPSK	1	99	0	0	1	0	DSI 0	22.45	24.00
37850	38048	QPSK	50	0	0	0	50	0	DSI 1	22.05	23.00
37901	38099	QPSK	50	0	0	0	50	0	DSI 1	22.03	23.00
38150	37952	QPSK	50	0	0	0	50	0	DSI 1	21.79	23.00
37850	38048	QPSK	1	99	0	0	1	0	DSI 3	22.72	24.00
37901	38099	QPSK	1	99	0	0	1	0	DSI 3	22.67	24.00
38150	37952	QPSK	1	99	0	0	1	0	DSI 3	22.45	24.00
37850	38048	QPSK	50	0	0	0	50	0	DSI 4	22.05	23.00
37901	38099	QPSK	50	0	0	0	50	0	DSI 4	22.03	23.00
38150	37952	QPSK	50	0	0	0	50	0	DSI 4	21.79	23.00

CA_7C - ANT2 Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Full Power	24.13	25.00
21100	20902	QPSK	1	0	0	0	1	0	Full Power	23.84	25.00
21350	21152	QPSK	1	0	0	0	1	0	Full Power	23.85	25.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 0	24.13	25.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 0	23.84	25.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 0	23.85	25.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 1	18.64	20.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 1	18.27	20.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 1	18.38	20.00
20850	21048	QPSK	1	0	0	0	1	0	DSI 3	24.13	25.00
21100	20902	QPSK	1	0	0	0	1	0	DSI 3	23.84	25.00
21350	21152	QPSK	1	0	0	0	1	0	DSI 3	23.85	25.00
20850	21048	QPSK	50	0	0	0	50	0	DSI 4	18.75	20.00
21100	20902	QPSK	50	0	0	0	50	0	DSI 4	18.65	20.00
21350	21152	QPSK	50	0	0	0	50	0	DSI 4	18.54	20.00

CA_38C - ANT2 Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	0	0	1	0	Full Power	24.37	25.50
37901	38099	QPSK	1	99	0	0	1	0	Full Power	24.36	25.50
38150	37952	QPSK	1	99	0	0	1	0	Full Power	24.25	25.50
37850	38048	QPSK	1	99	0	0	1	0	DSI 0	24.37	25.50
37901	38099	QPSK	1	99	0	0	1	0	DSI 0	24.36	25.50
38150	37952	QPSK	1	99	0	0	1	0	DSI 0	24.25	25.50
37850	38048	QPSK	50	0	0	0	50	0	DSI 1	21.19	22.00
37901	38099	QPSK	50	0	0	0	50	0	DSI 1	21.16	22.00
38150	37952	QPSK	50	0	0	0	50	0	DSI 1	21.05	22.00
37850	38048	QPSK	1	99	0	0	1	0	DSI 3	24.37	25.50
37901	38099	QPSK	1	99	0	0	1	0	DSI 3	24.36	25.50
38150	37952	QPSK	1	99	0	0	1	0	DSI 3	24.25	25.50
37850	38048	QPSK	50	0	0	0	50	0	DSI 4	21.19	22.00
37901	38099	QPSK	50	0	0	0	50	0	DSI 4	21.16	22.00
38150	37952	QPSK	50	0	0	0	50	0	DSI 4	21.05	22.00

CA_7C - ANT3 Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Full Power	24.11	25.70
21100	20902	QPSK	1	0	0	0	1	0	Full Power	24.33	25.70
21350	21152	QPSK	1	0	0	0	1	0	Full Power	24.50	25.70
20850	21048	QPSK	50	0	0	0	50	0	DSI 0	16.53	18.20
21100	20902	QPSK	50	0	0	0	50	0	DSI 0	16.75	18.20
21350	21152	QPSK	50	0	0	0	50	0	DSI 0	16.99	18.20
20850	21048	QPSK	1	0	0	0	1	0	DSI 1	18.67	20.20
21100	20902	QPSK	1	0	0	0	1	0	DSI 1	18.83	20.20
21350	21152	QPSK	1	0	0	0	1	0	DSI 1	19.14	20.20
20850	21048	QPSK	1	0	0	0	1	0	DSI 3	24.11	25.70
21100	20902	QPSK	1	0	0	0	1	0	DSI 3	24.33	25.70
21350	21152	QPSK	1	0	0	0	1	0	DSI 3	24.50	25.70
20850	21048	QPSK	50	0	0	0	50	0	DSI 4	16.62	18.20
21100	20902	QPSK	50	0	0	0	50	0	DSI 4	16.74	18.20
21350	21152	QPSK	50	0	0	0	50	0	DSI 4	16.95	18.20

CA_38C - ANT3 Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
37850	38048	QPSK	1	99	0	0	1	0	Full Power	24.97	25.70
37901	38099	QPSK	1	99	0	0	1	0	Full Power	25.01	25.70
38150	37952	QPSK	1	99	0	0	1	0	Full Power	24.99	25.70
37850	38048	QPSK	50	0	0	0	50	0	DSI 0	20.04	20.20
37901	38099	QPSK	50	0	0	0	50	0	DSI 0	20.00	20.20
38150	37952	QPSK	50	0	0	0	50	0	DSI 0	20.06	20.20
37850	38048	QPSK	1	99	0	0	1	0	DSI 1	21.52	22.20
37901	38099	QPSK	1	99	0	0	1	0	DSI 1	21.49	22.20
38150	37952	QPSK	1	99	0	0	1	0	DSI 1	21.54	22.20
37850	38048	QPSK	1	99	0	0	1	0	DSI 3	24.97	25.70
37901	38099	QPSK	1	99	0	0	1	0	DSI 3	25.01	25.70
38150	37952	QPSK	1	99	0	0	1	0	DSI 3	24.99	25.70
37850	38048	QPSK	50	0	0	0	50	0	DSI 4	20.04	20.20
37901	38099	QPSK	50	0	0	0	50	0	DSI 4	20.07	20.20
38150	37952	QPSK	50	0	0	0	50	0	DSI 4	20.06	20.20

CA_7C - ANT5 Combination 20MHz+20MHz (100RB+100RB)											
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Power Reduction	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset					
20850	21048	QPSK	1	0	0	0	1	0	Full Power	22.68	24.50
21100	20902	QPSK	1	0	0	0	1	0	Full Power	22.74	24.50
21350	21152	QPSK	1	0	0	0	1	0	Full Power	23.04	24.50
20850	21048	QPSK	50	0	0	0	50	0	DSI 0	13.62	15.50
21100	20902	QPSK	50	0	0	0	50	0	DSI 0	13.87	15.50
21350	21152	QPSK	50	0	0	0	50	0	DSI 0	14.02	15.50
20850	21048	QPSK	1	0	0	0	1	0	DSI 1	18.81	20.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 1	19.94	20.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 1	19.36	20.50
20850	21048	QPSK	1	0	0	0	1	0	DSI 3	22.68	24.50
21100	20902	QPSK	1	0	0	0	1	0	DSI 3	22.74	24.50
21350	21152	QPSK	1	0	0	0	1	0	DSI 3	23.04	24.50
20850	21048	QPSK	50	0	0	0	50	0	DSI 4	13.62	15.50
21100	20902	QPSK	50	0	0	0	50	0	DSI 4	13.87	15.50
21350	21152	QPSK	50	0	0	0	50	0	DSI 4	14.02	15.50

CA_38C - ANT5 Combination 20MHz+20										
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## Downlink CA Power

Full Power		2CC													
Configure	CA Configuration (BCS)	PCC							SCC				Power		
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)	
Inter-Band	CA_4A-5A	4	20	1732.5	20175	QPSK	1	0	5	10	881.5	2525	25.01	25.32	
	CA_4A-7A	4	20	1732.5	20175	QPSK	1	0	7	20	2655	3100	24.98	25.32	
	CA_5A-41A	5	10	836.5	20525	QPSK	1	0	41	20	2593	40620	24.99	25.05	
Inter-Band	Non-Contiguous	CA_7A-7A	7	20	2535	21100	QPSK	1	0	7	5	2687.5	3524	24.02	24.19
		2C	2	20	1860	18700	QPSK	1	0	2	20	1959.8	898	23.32	23.81
	Contiguous	CA_7C	7	20	2535	21100	QPSK	1	0	7	20	2635.20	2902	24.13	24.19
		CA_38C	38	20	2580	37850	QPSK	1	0	38	20	2599.80	38048	24.28	24.66
		CA_41C	41	20	2593	40620	QPSK	1	99	41	20	2612.80	40818	24.34	25.12

3CC		3CC																	
Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				Power		
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)	
Inter-Band	CA_2A-4A-5A	2	20	1860	18700	QPSK	1	0	4	20	2132.5	2175	5	10	881.5	2525	23.30	23.81	
	CA_2A-7A-7A	2	20	1860	18700	QPSK	1	0	7	20	2655	3100	7	20	2680	3350	23.41	23.81	
	CA_5A-7A-7A	5	10	836.5	20525	QPSK	1	0	7	20	2655	3100	7	20	2680	3350	24.99	25.05	
	CA_41A-41A-41A	41	20	2593	40620	QPSK	1	99	41	20	2506	39750	41	20	2680	41490	24.25	25.12	
Intra-Band	Contiguous	CA_2A-7C	2	20	1860	18700	QPSK	1	0	7	20	2645.1	3001	7	20	2664.9	3199	23.38	23.81
		CA_4A-7C	4	20	1732.5	20175	QPSK	1	0	7	20	2645.1	3001	7	20	2664.9	3199	25.11	25.32
		CA_5A-7C	5	10	836.5	20525	QPSK	1	0	7	20	2645.1	3001	7	20	2664.9	3199	24.01	25.05





## Bluetooth Full Power

### BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)									Tune-up Limit
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	16.81	16.67	16.77	14.16	14.08	14.11	14.15	14.05	14.06	18
	CH 39	2441	17.47	17.43	17.36	14.90	14.86	14.97	14.90	14.78	14.86	18
	CH 78	2480	17.19	17.02	16.99	14.39	14.35	14.32	14.57	14.40	14.35	18

### BLE\_1M

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	1.30	
	CH 19	2440	2.20	
	CH 39	2480	1.00	
Tune-up Limit			3.00	

### BLE\_1M/2M

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	1.30	1.30
	CH 19	2440	2.20	2.20
	CH 39	2480	1.00	1.00
Tune-up Limit			3.00	3.00



### Bluetooth Reduced Power

#### BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)									Tune-up Limit
			Packet Type									
			DH1	DH3	DH5	2DH1	2DH3	2DH5	3DH1	3DH3	3DH5	
Bluetooth	CH 0	2402	7.00	7.00	7.10	4.40	4.40	4.50	4.30	4.30	4.40	8.50
	CH 39	2441	7.70	7.70	7.80	5.10	5.10	5.20	5.00	5.00	5.10	8.50
	CH 78	2480	6.50	6.50	6.60	3.80	3.80	3.90	3.70	3.70	3.80	8.50