



**Full power&Default Power**

OSM100_Ant 6	Best Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power Limit			Tune-up Limit
	98	99	99.5		98	99	99.5	
Frequency (MHz)	15.2	15.4	15.6	15.0	15.2	15.4	15.6	14.0
OPRS 1 Tx Limit	32.13	31.92	32.38	33.00	33.13	32.92	33.38	24.00
OPRS 1 Tx Min	30.33	29.96	30.38	31.00	31.33	31.06	31.38	20.00
OPRS 1 Tx Max	24.43	24.31	24.99	26.00	24.72	24.25	24.33	26.34
OPRS 1 Tx Limit	20.81	20.64	20.75	21.00	21.81	21.64	21.75	20.00
EDGE 1 Tx Limit	24.91	24.72	24.79	25.00	17.02	16.81	16.96	18.00
EDGE 1 Tx Min	21.69	21.39	21.69	24.00	18.39	18.33	18.39	20.34
EDGE 1 Tx Max	21.69	21.61	21.68	23.00	18.69	18.61	18.68	20.00

OSM100_Ant 5	Best Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power Limit			Tune-up Limit
	98	99	99.5		98	99	99.5	
Frequency (MHz)	169.2	169.0	169.8	165.0	169.2	169.0	169.8	150.0
OPRS 1 Tx Limit	29.86	29.41	29.83	30.00	30.86	30.41	30.83	21.00
OPRS 1 Tx Min	27.88	27.47	27.89	28.00	27.88	27.47	27.89	22.00
OPRS 1 Tx Max	26.19	25.87	26.74	27.00	21.93	21.61	21.48	22.74
OPRS 1 Tx Limit	24.25	24.16	24.43	24.00	21.92	21.56	21.53	23.00
EDGE 1 Tx Limit	26.15	25.60	26.12	27.00	17.19	16.90	17.12	18.00
EDGE 1 Tx Min	23.11	22.42	23.02	24.00	18.11	18.01	18.06	20.00
EDGE 1 Tx Max	23.06	22.74	23.01	24.00	18.80	18.48	18.75	20.34
EDGE 1 Tx Limit	22.12	21.40	21.94	23.00	18.12	18.01	18.04	20.00

Bios	WCCMA_V_Ant 0			Tune-up Limit (dBm)	WCCMA_V_Ant 0			Tune-up Limit	WCCMA_V_Ant 0			Tune-up Limit (dBm)
	98	99	99.5		98	99	99.5		98	99	99.5	
Frequency (MHz)	169.4	169.0	169.8	165.0	169.4	169.0	169.8	150.0	169.4	169.0	169.8	140.0
SOPF Power	23.28	23.49	23.30	24.00	23.17	23.40	23.38	24.00	23.64	23.11	23.61	24.00
SOPF Power	22.29	22.00	22.22	24.00	22.19	22.02	22.41	24.00	23.05	22.12	22.62	24.00
SOPF Power	22.25	22.59	22.25	23.00	22.22	22.06	22.26	23.00	21.96	22.01	21.95	23.00
SOPF Power	22.27	22.07	22.24	23.00	22.23	22.09	22.07	23.00	21.98	22.01	21.97	23.00
SOPF Power	21.80	22.05	21.71	22.00	21.72	22.03	22.06	22.00	21.90	21.94	21.48	22.00
SOPF Power	21.83	22.01	21.74	22.00	21.72	21.95	22.08	22.00	21.43	21.55	21.41	22.00
SOPF Power	22.21	22.40	22.41	23.00	22.22	22.35	22.21	23.00	21.99	21.99	21.98	23.00
SOPF Power	22.08	22.45	22.46	23.00	22.23	22.23	22.25	23.00	21.98	21.68	21.94	23.00
SOPF Power	22.03	22.15	22.07	22.00	21.72	22.00	21.91	22.00	21.90	21.55	21.44	22.00
SOPF Power	22.06	22.09	22.00	22.00	21.72	21.89	22.01	22.00	21.43	21.30	21.41	22.00
SOPF Power	22.27	22.03	22.25	23.00	22.17	22.44	22.06	23.00	21.95	22.04	21.92	23.00
SOPF Power	22.30	22.01	22.07	21.00	22.10	22.44	22.05	21.00	18.00	20.00	18.00	21.00
SOPF Power	21.30	21.52	21.21	22.00	21.23	21.43	21.58	22.00	20.90	21.00	20.81	22.00
SOPF Power	20.38	20.48	20.34	21.00	20.10	20.41	20.59	21.00	18.91	19.69	19.00	21.00
SOPF Power	20.35	20.65	20.25	23.00	20.15	22.05	20.65	23.00	21.92	22.02	21.92	23.00



Band 2\_Ant 0

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (W), Power Ch./F.Freq., Power Ht./F.Freq., Turn-on (min), MPR (dB), Channel, Frequency (MHz), and a grid of data points for various antenna configurations.

Band 2\_Ant 1

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (W), Power Ch./F.Freq., Power Ht./F.Freq., Turn-on (min), MPR (dB), Channel, Frequency (MHz), and a grid of data points for various antenna configurations.

Band 4\_Ant 0

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (W), Power Ch./F.Freq., Power Ht./F.Freq., Turn-on (min), MPR (dB), Channel, Frequency (MHz), and a grid of data points for various antenna configurations.

Band 4\_Ant 1

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (W), Power Ch./F.Freq., Power Ht./F.Freq., Turn-on (min), MPR (dB), Channel, Frequency (MHz), and a grid of data points for various antenna configurations.



Band 5_Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freqs	Power Hsp./Ch./F.Freqs	Power Tot./Ch./F.Freqs	Turn-up (dB)	MPE (dB)						
Channel	Frequency (MHz)								Turn-up (dB)	MPE (dB)				
10	QPSK	1	0	22.48	22.62	22.53								
10	QPSK	1	25	22.44	22.58	22.48								
10	QPSK	1	49	22.40	22.51	22.43	24	0						
10	QPSK	25	0	21.46	21.63	21.62								
10	QPSK	25	12	21.46	21.63	21.62								
10	QPSK	25	24	21.49	21.64	21.48	23	1						
10	QPSK	50	0	21.47	21.60	21.52								
10	QPSK	50	24	21.51	21.71	21.65	23	1						
10	16QAM	1	25	22.11	21.77	21.64								
10	16QAM	5	49	21.83	21.56	21.68								
10	16QAM	5	73	22.44	22.39	22.40								
10	16QAM	25	12	20.51	20.51	20.52								
10	16QAM	25	24	20.49	20.49	20.52								
10	16QAM	50	0	20.50	20.53	20.52								
10	16QAM	50	24	20.59	20.59	20.64								
10	64QAM	1	25	20.97	20.36	20.52								
10	64QAM	5	73	21.66	21.70	21.66								
10	64QAM	25	0	19.32	19.40	19.40								
10	64QAM	25	12	19.30	19.55	19.34								
10	64QAM	25	24	19.30	19.55	19.34								
10	64QAM	50	0	19.37	19.50	19.37								
10	64QAM	50	24	19.37	19.50	19.37								
10	256QAM	1	25	17.85	18.00	17.94								
10	256QAM	1	49	17.87	17.95	17.94								
10	256QAM	5	73	17.86	17.94	17.86								
10	256QAM	25	12	17.90	17.89	18.01								
10	256QAM	25	24	17.88	17.82	17.91								
10	256QAM	50	0	17.92	17.95	17.92								

Band 7_Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freqs	Power Hsp./Ch./F.Freqs	Power Tot./Ch./F.Freqs	Turn-up (dB)	MPE (dB)						
Channel	Frequency (MHz)								Turn-up (dB)	MPE (dB)				
20	QPSK	1	0	22.98	22.96	22.92								
20	QPSK	1	24	22.92	22.91	22.92	24	0						
20	QPSK	1	48	22.99	23.01	23.04								
20	QPSK	50	0	22.32	22.47	22.35								
20	QPSK	50	24	22.36	22.45	22.43	23	1						
20	QPSK	100	0	22.30	22.44	22.35								
20	16QAM	1	49	22.47	22.60	22.54	23	1						
20	16QAM	1	99	22.56	22.76	22.75								
20	16QAM	50	0	21.31	21.32	21.37								
20	16QAM	50	24	21.35	21.43	21.38	22	2						
20	16QAM	100	0	21.34	21.44	21.47								
20	16QAM	100	0	21.35	21.45	21.59								
20	64QAM	1	0	21.31	21.43	21.45								
20	64QAM	1	49	21.38	21.51	21.51								
20	64QAM	50	0	20.34	20.34	20.40								
20	64QAM	50	24	20.39	20.48	20.42								
20	64QAM	100	0	20.37	20.44	20.42								
20	256QAM	1	49	18.16	18.12	18.20								
20	256QAM	1	99	18.26	18.15	18.26								
20	256QAM	50	0	18.22	18.24	18.33								
20	256QAM	50	24	18.23	18.21	18.24								
20	256QAM	100	0	18.22	18.17	18.26								
20	256QAM	100	24	18.25	18.10	18.25								

Band 7_Ant 1														
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freqs	Power Hsp./Ch./F.Freqs	Power Tot./Ch./F.Freqs	Turn-up (dB)	MPE (dB)						
Channel	Frequency (MHz)								Turn-up (dB)	MPE (dB)				
20	QPSK	1	0	22.67	22.76	22.69								
20	QPSK	1	49	22.70	22.82	22.82	24	0						
20	QPSK	1	99	22.78	22.85	22.49								
20	QPSK	50	0	21.89	21.91	21.82								
20	QPSK	50	24	21.91	21.92	21.82	23	1						
20	QPSK	100	0	21.87	21.92	21.81								
20	16QAM	1	49	21.94	22.03	22.00	23	1						
20	16QAM	1	99	22.01	22.13	22.06								
20	16QAM	50	0	20.79	20.82	20.85								
20	16QAM	50	24	20.83	20.85	20.82	22	2						
20	16QAM	100	0	20.87	20.89	20.89								
20	64QAM	1	0	20.49	20.55	20.50								
20	64QAM	1	49	20.43	20.50	20.50								
20	64QAM	50	24	19.45	19.50	19.81	21	3						
20	64QAM	100	0	19.45	19.70	19.70								
20	256QAM	1	49	17.69	17.73	17.67								
20	256QAM	1	99	17.75	17.86	17.63								
20	256QAM	50	0	17.70	17.82	17.65								
20	256QAM	50	24	17.72	17.81	17.65								
20	256QAM	100	0	17.71	17.85	17.68								
20	256QAM	100	24	17.75	17.80	17.82								

Band 12_Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freqs	Power Hsp./Ch./F.Freqs	Power Tot./Ch./F.Freqs	Turn-up (dB)	MPE (dB)						
Channel	Frequency (MHz)								Turn-up (dB)	MPE (dB)				
10	QPSK	1	0	22.71	22.79	22.85								
10	QPSK	1	25	22.75	22.76	22.82	24	0						
10	QPSK	1	49	22.63	22.84	22.48								
10	QPSK	25	0	21.78	21.82	21.75								
10	QPSK	25	12	21.73	21.77	21.75								
10	QPSK	25	24	21.82	21.74	21.63	23	1						
10	QPSK	50	0	21.75	21.77	21.72								
10	QPSK	50	24	21.79	22.25	22.42								
10	16QAM	1	25	22.02	22.04	22.02								
10	16QAM	1	49	22.07	22.26	22.26								
10	16QAM	5	73	21.82	21.97	21.92								
10	16QAM	25	12	20.87	20.78	20.78								
10	16QAM	25	24	20.82	20.88	20.72								
10	16QAM	50	0	21.06	20.70	21.20								
10	16QAM	50	24	21.02	21.08	21.05								
10	64QAM	1	25	20.62	20.66	20.67								
10	64QAM	5	73	21.42	21.48	21.42								
10	64QAM	25	0	19.26	19.31	19.27								
10	64QAM	25	12	19.30	19.51	19.31								
10	64QAM	25	24	19.30	19.51	19.31								
10	64QAM	50	0	19.36	19.50	19.36								
10	64QAM	50	24	19.36	19.50	19.36								
10	256QAM	1	49	17.69	17.68	17.69								
10	256QAM	1	99	17.75	17.86	17.63								
10	256QAM	50	0	17.70	17.82	17.65								
10	256QAM	50	24	17.72	17.81	17.65								
10	256QAM	100	0	17.71	17.85	17.68								
10	256QAM	100	24	17.75	17.80	17.82								















Reduced Power for DSI 2-Standalone

OSM100_Ant 0	Best Average Power (dBm)			Turn-up Limit (dBm)	Frame-Average Power Limit (dBm)			Turn-up Limit (dBm)
	98	106	114		100	108	116	
Frequency (MHz)	12.12	11.74	11.14	11.00	12.12	11.74	11.14	11.00
OPRS 1 Tx total	32.13	31.92	32.38	33.00	23.13	22.92	23.38	24.00
OPRS 1 Tx total	30.33	29.96	30.38	31.00	24.33	23.96	24.38	25.00
OPRS 1 Tx total	28.43	28.31	28.99	29.00	21.17	21.05	21.53	22.00
OPRS 1 Tx total	26.81	26.64	26.76	27.00	23.81	23.64	23.76	24.00
EDGE 1 Tx total	24.02	24.01	24.69	25.00	17.02	16.91	17.59	18.00
EDGE 2 Tx total	24.01	24.12	24.79	25.00	18.01	18.12	18.79	20.00
EDGE 3 Tx total	23.69	23.39	23.69	24.00	18.39	18.09	18.39	20.00
EDGE 4 Tx total	21.89	21.61	21.68	23.00	18.69	18.61	18.68	20.00

OSM100_Ant 0	Best Average Power (dBm)			Turn-up Limit (dBm)	Frame-Average Power Limit (dBm)			Turn-up Limit (dBm)
	98	106	114		100	108	116	
Frequency (MHz)	189.2	189.0	189.8	190.0	189.2	189.0	189.8	190.0
OPRS 1 Tx total	29.86	29.41	29.83	30.00	20.86	20.41	20.83	21.00
OPRS 1 Tx total	27.98	27.47	27.89	28.00	17.98	17.47	17.89	18.00
OPRS 1 Tx total	26.19	25.67	25.74	27.00	21.03	20.51	20.48	22.74
OPRS 1 Tx total	24.25	24.16	24.43	25.00	21.92	21.86	21.93	23.00
EDGE 1 Tx total	20.15	20.00	20.12	21.00	17.15	16.90	17.12	18.00
EDGE 2 Tx total	20.11	19.92	20.02	20.00	18.11	18.01	18.06	20.00
EDGE 3 Tx total	20.06	20.14	20.01	20.00	18.80	18.48	18.75	20.00
EDGE 4 Tx total	22.12	21.40	21.94	23.00	18.12	18.61	18.94	20.00

BSP	WCDMA_V_Ant 0			Turn-up Limit (dBm)	WCDMA_V_Ant 0			Turn-up Limit (dBm)	WCDMA_V_Ant 0			Turn-up Limit (dBm)
	98	106	114		100	108	116		100	108	116	
Frequency (MHz)	189.2	189.0	189.8	190.0	189.2	189.0	189.8	190.0	189.2	189.0	189.8	190.0
SOPF Power	23.28	23.49	23.30	24.00	23.17	23.40	23.38	24.00	23.64	23.11	23.61	24.00
SOPF Power	23.29	23.20	23.22	24.00	23.19	23.42	23.41	24.00	23.05	23.12	23.02	24.00
SOPF Power	22.25	22.59	22.25	23.00	22.22	22.46	22.26	23.00	21.96	22.01	21.95	23.00
SOPF Power	22.27	22.07	22.24	23.00	22.23	22.39	22.27	23.00	21.98	22.01	21.97	23.00
SOPF Power	21.80	22.06	21.71	22.00	21.72	22.03	21.96	22.00	21.90	21.94	21.48	22.00
SOPF Power	21.83	22.01	21.74	22.00	21.72	21.95	22.08	22.00	21.43	21.55	21.47	22.00
SOPF Power	22.21	22.40	22.41	23.00	22.22	22.35	22.21	23.00	21.99	21.99	21.98	23.00
SOPF Power	22.08	22.45	22.46	23.00	22.23	22.23	22.20	23.00	21.98	21.68	21.94	23.00
SOPF Power	22.03	22.15	22.07	22.00	21.72	22.00	21.91	22.00	21.90	21.55	21.44	22.00
SOPF Power	22.06	22.09	22.00	22.00	21.72	21.89	22.01	22.00	21.43	21.30	21.41	22.00
SOPF Power	22.27	22.01	22.25	23.00	22.17	22.44	22.46	23.00	21.95	22.04	21.92	23.00
SOPF Power	22.30	22.01	22.07	23.00	22.19	22.44	22.59	23.00	21.95	22.00	21.85	23.00
SOPF Power	21.30	21.52	21.21	22.00	21.23	21.43	21.58	22.00	20.95	21.00	20.81	22.00
SOPF Power	20.38	20.48	20.34	21.00	20.19	20.41	20.59	21.00	19.91	19.99	19.90	21.00
SOPF Power	20.35	20.65	20.25	21.00	20.15	20.40	20.65	21.00	19.90	20.00	21.00	21.00



















**Reduced Power for DSI 2-Simultaneous**

Channel / Tx Channel	Best Average Power (dBm)			Turn-up Limit (dBm)	Frame-Average Power Limit (dBm)			Turn-up Limit (dBm)
	98.5	100	101.5		98.5	100	101.5	
Frequency (MHz)	11.2	11.4	11.6	11.0	11.2	11.4	11.6	11.0
OPRS 1 Tx Util.	32.13	31.92	32.38	33.00	23.13	22.92	23.38	24.00
OPRS 2 Tx Util.	30.31	29.96	30.38	31.00	24.31	23.96	24.38	25.00
OPRS 3 Tx Util.	24.43	24.31	24.99	25.00	14.17	14.25	14.13	25.24
OPRS 4 Tx Util.	20.81	20.64	20.75	21.00	13.81	13.64	13.75	23.00
EDGE 1 Tx Util.	24.02	24.22	24.79	27.00	17.02	16.81	16.99	18.00
EDGE 2 Tx Util.	24.01	24.22	24.79	26.00	16.91	16.72	16.79	20.00
EDGE 3 Tx Util.	21.60	21.39	21.68	24.00	14.39	14.23	14.24	20.24
EDGE 4 Tx Util.	21.60	21.61	21.68	23.00	14.60	14.61	14.68	20.00

Channel / Tx Channel	Best Average Power (dBm)			Turn-up Limit (dBm)	Frame-Average Power Limit (dBm)			Turn-up Limit (dBm)
	98.5	100	101.5		98.5	100	101.5	
Frequency (MHz)	109.2	109.0	109.8	105.0	109.0	109.0	109.8	105.0
OPRS 1 Tx Util.	29.86	29.41	29.83	30.00	20.86	20.41	20.83	21.00
OPRS 2 Tx Util.	27.08	26.4	27.08	28.00	17.08	16.4	17.08	21.00
OPRS 3 Tx Util.	26.19	25.67	26.74	27.00	16.09	15.61	16.48	22.74
OPRS 4 Tx Util.	24.25	24.26	24.43	24.00	14.92	14.96	15.03	23.00
EDGE 1 Tx Util.	20.15	20.60	20.12	27.00	17.15	16.90	17.12	18.00
EDGE 2 Tx Util.	22.11	21.42	22.02	26.00	13.11	12.91	13.06	20.00
EDGE 3 Tx Util.	23.06	22.74	23.01	24.00	14.80	14.48	14.73	20.24
EDGE 4 Tx Util.	22.12	21.40	21.94	23.00	13.12	12.61	13.04	20.00

Band / Tx Channel	WCCMA_V_Ant 0			Turn-up Limit (dBm)	WCCMA_V_Ant 0			Turn-up Limit (dBm)	WCCMA_V_Ant 0			Turn-up Limit (dBm)
	98.5	100	101.5		98.5	100	101.5		98.5	100	101.5	
Frequency (MHz)	109.4	109.0	109.8	105.0	109.4	109.0	109.8	105.0	109.4	109.0	109.8	105.0
SOPF Rate	23.28	23.49	23.30	24.00	23.17	23.40	23.38	24.00	23.64	23.11	23.01	24.00
SOPF Rate	23.29	23.20	23.22	24.00	23.19	23.42	23.41	24.00	23.05	23.12	23.02	24.00
SOPF Rate	22.25	22.59	22.25	23.00	22.22	22.46	22.26	23.00	21.96	22.01	21.95	23.00
SOPF Rate	22.27	22.07	22.24	23.00	22.23	22.39	22.27	23.00	21.98	22.01	21.97	23.00
SOPF Rate	21.80	22.05	21.71	22.00	21.72	22.03	21.96	22.00	21.36	21.46	21.48	22.00
SOPF Rate	21.83	22.01	21.74	22.00	21.72	21.95	21.98	22.00	21.43	21.55	21.47	22.00
SOPF Rate	22.21	22.40	22.41	23.00	22.22	22.35	22.21	23.00	21.99	21.99	21.98	23.00
SOPF Rate	22.08	22.45	22.46	23.00	22.23	22.23	22.20	23.00	21.98	21.68	21.54	23.00
SOPF Rate	22.03	22.15	22.07	22.00	21.72	22.00	21.91	22.00	21.36	21.55	21.44	22.00
SOPF Rate	22.06	22.09	22.00	22.00	21.72	21.89	22.01	22.00	21.43	21.39	21.41	22.00
SOPF Rate	22.27	22.01	22.25	23.00	22.17	22.44	22.46	23.00	21.95	22.04	21.92	23.00
SOPF Rate	22.30	22.01	22.07	21.00	22.19	22.44	22.09	21.00	18.00	20.00	18.00	21.00
SOPF Rate	21.30	21.52	21.21	22.00	21.23	21.43	21.58	22.00	20.90	21.00	20.81	22.00
SOPF Rate	20.38	20.48	20.34	21.00	20.19	20.41	20.39	21.00	18.91	19.69	19.6	21.00
SOPF Rate	20.35	20.65	20.25	23.00	20.15	22.05	20.65	23.00	19.90	22.00	21.60	23.00



Band 2\_Ant 0

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (Ch./F.Freq), Power (Ch./F.Freq), Power (Ch./F.Freq), Turn-on (min), MPR (dB), Channel, Frequency (MHz), RB Sca, RB Offset, Power (Ch./F.Freq), Power (Ch./F.Freq), Power (Ch./F.Freq), Turn-on (min), MPR (dB). Rows include frequencies from 20.000 to 20.995 MHz.

Band 2\_Ant 1

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (Ch./F.Freq), Power (Ch./F.Freq), Power (Ch./F.Freq), Turn-on (min), MPR (dB), Channel, Frequency (MHz), RB Sca, RB Offset, Power (Ch./F.Freq), Power (Ch./F.Freq), Power (Ch./F.Freq), Turn-on (min), MPR (dB). Rows include frequencies from 15.000 to 15.995 MHz.

Band 4\_Ant 0

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (Ch./F.Freq), Power (Ch./F.Freq), Power (Ch./F.Freq), Turn-on (min), MPR (dB), Channel, Frequency (MHz), RB Sca, RB Offset, Power (Ch./F.Freq), Power (Ch./F.Freq), Power (Ch./F.Freq), Turn-on (min), MPR (dB). Rows include frequencies from 18.000 to 18.995 MHz.

Band 4\_Ant 1

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (Ch./F.Freq), Power (Ch./F.Freq), Power (Ch./F.Freq), Turn-on (min), MPR (dB), Channel, Frequency (MHz), RB Sca, RB Offset, Power (Ch./F.Freq), Power (Ch./F.Freq), Power (Ch./F.Freq), Turn-on (min), MPR (dB). Rows include frequencies from 16.000 to 16.995 MHz.





Band 13\_Ant 0

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains data for channels 782, 785, and 788.5.

Band 17\_Ant 0

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains data for channels 708, 710, 711, 713.5, 715.5, 717.5, and 719.5.

Band 25\_Ant 0

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power High Ch./Freq., Tune-up limit (dBm), MPR (dB). Contains data for multiple channels across various RB sizes (5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 90).













Reduced Power for DSI 3-Standalone

OSM100_Ant 6 Tx Channel	Best Average Power (dBm)			Turn-up Level (dBm)	Frame-Average Power (dBm)			Turn-up Level (dBm)
	98	114	95.5		106	109	95	
Frequency (MHz)	32.25	31.74	32.55	33.00	32.52	32.23	32.39	34.00
OPRS 1 Tx Util.	32.13	31.92	32.38	33.00	32.13	22.92	22.38	24.00
OPRS 2 Tx Util.	30.33	29.96	30.38	31.00	29.33	21.95	22.38	23.00
OPRS 3 Tx Util.	29.43	29.31	29.99	30.00	29.17	24.25	24.33	25.24
OPRS 4 Tx Util.	28.81	28.64	29.75	29.00	27.81	23.84	23.75	23.99
EDGE 1 Tx Util.	24.91	24.22	24.79	27.00	17.92	18.81	18.99	19.00
EDGE 2 Tx Util.	24.91	24.22	24.79	26.00	18.91	18.72	18.79	20.00
EDGE 3 Tx Util.	23.99	23.29	23.98	24.00	18.99	18.73	18.79	20.34
EDGE 4 Tx Util.	21.89	21.61	21.68	23.00	18.69	18.81	18.88	20.00

OSM100_Ant 5 Tx Channel	Best Average Power (dBm)			Turn-up Level (dBm)	Frame-Average Power (dBm)			Turn-up Level (dBm)
	99.2	109	99.2		102	106	99.2	
Frequency (MHz)	30.92	30.96	30.92	31.00	30.92	30.96	30.92	31.00
OPRS 1 Tx Util.	28.83	28.01	28.25	29.00	19.03	19.01	19.25	20.00
OPRS 2 Tx Util.	28.91	27.87	28.24	29.00	18.69	18.9	18.24	20.00
OPRS 3 Tx Util.	25.77	25.85	26.46	26.00	19.77	19.85	19.85	20.00
OPRS 4 Tx Util.	22.69	22.65	22.67	24.00	18.43	18.99	18.41	20.14
OPRS 5 Tx Util.	23.00	22.15	22.44	23.00	19.03	19.15	19.14	20.20
EDGE 1 Tx Util.	20.58	20.57	20.57	27.00	18.99	18.97	18.92	18.00
EDGE 2 Tx Util.	20.40	19.21	19.51	26.00	18.60	18.51	18.51	20.00
EDGE 3 Tx Util.	20.99	20.00	20.98	24.00	18.73	18.74	18.74	20.00
EDGE 4 Tx Util.	21.92	21.31	21.15	23.00	18.52	18.31	18.19	20.00

BMS Tx Channel	WCCMA_V_Ant 0			Turn-up Level (dBm)	WCCMA_V_Ant 0			Turn-up Level (dBm)	WCCMA_V_Ant 0			Turn-up Level (dBm)
	99.2	99.0	99.9		102	103	103		419	420	423	
Frequency (MHz)	197.4	199	197.6	197.4	197.6	197.6	197.4	196	197.4	197.4	197.4	197.4
SOPF Rate 0	18.16	18.41	18.08	20.00	18.72	18.97	18.91	19.80	20.64	20.11	20.01	24.00
SOPF Rate 1	18.18	18.21	18.08	20.00	18.98	18.95	18.15	19.80	20.05	20.12	20.02	24.00
SOPF Rate 2	18.17	18.45	18.17	19.00	17.84	18.03	18.15	19.80	21.96	22.04	21.95	23.00
SOPF Rate 3	18.10	18.43	18.10	18.00	17.85	18.02	18.14	18.80	21.98	22.01	21.97	23.00
SOPF Rate 4	17.80	17.80	17.68	18.00	17.98	17.81	17.63	18.30	21.98	21.94	21.48	22.00
SOPF Rate 5	17.71	17.69	17.68	18.00	17.59	17.62	17.68	18.30	21.43	21.55	21.47	22.00
SOPF Rate 6	18.46	18.46	18.30	19.00	17.94	17.97	18.09	19.80	21.99	21.99	21.99	23.00
SOPF Rate 7	18.46	18.52	18.47	19.00	17.82	17.77	18.07	19.80	21.98	21.68	21.94	23.00
SOPF Rate 8	17.89	18.00	18.03	18.00	17.29	17.58	17.45	18.30	21.39	21.55	21.44	22.00
SOPF Rate 9	17.97	17.97	17.96	18.00	17.93	17.92	17.92	19.30	21.43	21.39	21.41	22.00
SOPF Rate 10	18.15	18.49	18.11	19.00	17.76	17.99	18.16	18.80	21.95	22.04	21.92	23.00
SOPF Rate 11	18.33	18.41	18.32	17.00	18.76	18.99	18.75	18.80	19.00	20.00	19.81	21.00
SOPF Rate 12	17.25	17.37	17.69	18.00	16.87	17.07	17.39	17.80	20.99	21.00	20.81	22.00
SOPF Rate 13	18.19	18.39	18.39	17.00	18.73	18.82	18.50	19.80	19.91	19.99	19.99	21.00
SOPF Rate 14	18.25	18.51	18.51	19.00	17.72	18.04	18.19	18.80	21.92	22.02	21.92	23.00





Band 5_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Power Hsp./F.Freq.	Turn-up (dB)	MPE (dB)		
Channel										
Frequency (MHz)	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Power Hsp./F.Freq.	Turn-up (dB)	MPE (dB)			
10	QPSK	1	0	22.48	22.62	22.53				
10	QPSK	1	25	22.44	22.58	22.48				
10	QPSK	1	49	22.40	22.51	22.43			24	0
10	QPSK	25	0	21.46	21.63	21.62				
10	QPSK	25	12	21.46	21.63	21.63				
10	QPSK	25	25	21.49	21.64	21.48			23	1
10	QPSK	50	0	21.47	21.60	21.52				
10	QPSK	50	12	21.51	21.70	21.65				
10	16QAM	1	25	22.11	21.77	21.64			23	1
10	16QAM	1	49	21.83	21.56	21.68				
10	16QAM	1	73	21.86	21.59	21.68				
10	16QAM	25	12	20.51	20.51	20.55			22	2
10	16QAM	25	25	20.49	20.49	20.63				
10	16QAM	50	0	20.50	20.53	20.57				
10	16QAM	50	12	20.59	20.59	20.64				
10	16QAM	1	25	20.57	20.36	20.52			22	2
10	16QAM	1	49	19.32	19.49	19.40				
10	16QAM	25	12	19.30	19.30	19.34				
10	16QAM	25	25	19.45	19.30	19.40			21	3
10	16QAM	50	0	19.37	19.37	19.37				
10	16QAM	50	12	19.46	19.30	19.40				
10	256QAM	1	25	17.85	18.00	17.94			19	5
10	256QAM	1	49	17.87	17.86	17.94				
10	256QAM	1	73	17.86	17.86	17.94				
10	256QAM	25	12	17.90	17.89	18.01			19	5
10	256QAM	25	25	17.88	17.82	17.91				
10	256QAM	50	0	17.92	17.92	17.92				
10	256QAM	50	12	17.95	17.95	17.95				
10	256QAM	50	25	17.95	17.95	17.95				
10	256QAM	50	37	17.95	17.95	17.95				
10	256QAM	50	49	17.95	17.95	17.95				
10	256QAM	50	61	17.95	17.95	17.95				
10	256QAM	50	73	17.95	17.95	17.95				
10	256QAM	50	85	17.95	17.95	17.95				
10	256QAM	50	97	17.95	17.95	17.95				
10	256QAM	50	109	17.95	17.95	17.95				
10	256QAM	50	121	17.95	17.95	17.95				
10	256QAM	50	133	17.95	17.95	17.95				
10	256QAM	50	145	17.95	17.95	17.95				
10	256QAM	50	157	17.95	17.95	17.95				
10	256QAM	50	169	17.95	17.95	17.95				
10	256QAM	50	181	17.95	17.95	17.95				
10	256QAM	50	193	17.95	17.95	17.95				
10	256QAM	50	205	17.95	17.95	17.95				
10	256QAM	50	217	17.95	17.95	17.95				
10	256QAM	50	229	17.95	17.95	17.95				
10	256QAM	50	241	17.95	17.95	17.95				
10	256QAM	50	253	17.95	17.95	17.95				
10	256QAM	50	265	17.95	17.95	17.95				
10	256QAM	50	277	17.95	17.95	17.95				
10	256QAM	50	289	17.95	17.95	17.95				
10	256QAM	50	301	17.95	17.95	17.95				
10	256QAM	50	313	17.95	17.95	17.95				
10	256QAM	50	325	17.95	17.95	17.95				
10	256QAM	50	337	17.95	17.95	17.95				
10	256QAM	50	349	17.95	17.95	17.95				
10	256QAM	50	361	17.95	17.95	17.95				
10	256QAM	50	373	17.95	17.95	17.95				
10	256QAM	50	385	17.95	17.95	17.95				
10	256QAM	50	397	17.95	17.95	17.95				
10	256QAM	50	409	17.95	17.95	17.95				
10	256QAM	50	421	17.95	17.95	17.95				
10	256QAM	50	433	17.95	17.95	17.95				
10	256QAM	50	445	17.95	17.95	17.95				
10	256QAM	50	457	17.95	17.95	17.95				
10	256QAM	50	469	17.95	17.95	17.95				
10	256QAM	50	481	17.95	17.95	17.95				
10	256QAM	50	493	17.95	17.95	17.95				
10	256QAM	50	505	17.95	17.95	17.95				
10	256QAM	50	517	17.95	17.95	17.95				
10	256QAM	50	529	17.95	17.95	17.95				
10	256QAM	50	541	17.95	17.95	17.95				
10	256QAM	50	553	17.95	17.95	17.95				
10	256QAM	50	565	17.95	17.95	17.95				
10	256QAM	50	577	17.95	17.95	17.95				
10	256QAM	50	589	17.95	17.95	17.95				
10	256QAM	50	601	17.95	17.95	17.95				
10	256QAM	50	613	17.95	17.95	17.95				
10	256QAM	50	625	17.95	17.95	17.95				
10	256QAM	50	637	17.95	17.95	17.95				
10	256QAM	50	649	17.95	17.95	17.95				
10	256QAM	50	661	17.95	17.95	17.95				
10	256QAM	50	673	17.95	17.95	17.95				
10	256QAM	50	685	17.95	17.95	17.95				
10	256QAM	50	697	17.95	17.95	17.95				
10	256QAM	50	709	17.95	17.95	17.95				
10	256QAM	50	721	17.95	17.95	17.95				
10	256QAM	50	733	17.95	17.95	17.95				
10	256QAM	50	745	17.95	17.95	17.95				
10	256QAM	50	757	17.95	17.95	17.95				
10	256QAM	50	769	17.95	17.95	17.95				
10	256QAM	50	781	17.95	17.95	17.95				
10	256QAM	50	793	17.95	17.95	17.95				
10	256QAM	50	805	17.95	17.95	17.95				
10	256QAM	50	817	17.95	17.95	17.95				
10	256QAM	50	829	17.95	17.95	17.95				
10	256QAM	50	841	17.95	17.95	17.95				
10	256QAM	50	853	17.95	17.95	17.95				
10	256QAM	50	865	17.95	17.95	17.95				
10	256QAM	50	877	17.95	17.95	17.95				
10	256QAM	50	889	17.95	17.95	17.95				
10	256QAM	50	901	17.95	17.95	17.95				
10	256QAM	50	913	17.95	17.95	17.95				
10	256QAM	50	925	17.95	17.95	17.95				
10	256QAM	50	937	17.95	17.95	17.95				
10	256QAM	50	949	17.95	17.95	17.95				
10	256QAM	50	961	17.95	17.95	17.95				
10	256QAM	50	973	17.95	17.95	17.95				
10	256QAM	50	985	17.95	17.95	17.95				
10	256QAM	50	997	17.95	17.95	17.95				
10	256QAM	50	1009	17.95	17.95	17.95				
10	256QAM	50	1021	17.95	17.95	17.95				
10	256QAM	50	1033	17.95	17.95	17.95				
10	256QAM	50	1045	17.95	17.95	17.95				
10	256QAM	50	1057	17.95	17.95	17.95				
10	256QAM	50	1069	17.95	17.95	17.95				
10	256QAM	50	1081	17.95	17.95	17.95				
10	256QAM	50	1093	17.95	17.95	17.95				
10	256QAM	50	1105	17.95	17.95	17.95				
10	256QAM	50	1117	17.95	17.95	17.95				
10	256QAM	50	1129	17.95	17.95	17.95				
10	256QAM	50	1141	17.95	17.95	17.95				
10	256QAM	50	1153	17.95	17.95	17.95				
10	256QAM	50	1165	17.95	17.95	17.95				
10	256QAM	50	1177	17.95	17.95	17.95				
10	256QAM	50	1189	17.95	17.95	17.95				
10	256QAM	50	1201	17.95	17.95	17.95				
10	256QAM	50	1213	17.95	17.95	17.95				
10	256QAM	50	1225	17.95	17.95	17.95				
10	256QAM	50	1237	17.95	17.95	17.95				
10	256QAM	50	1249	17.95	17.95	17.95				
10	256QAM	50	1261	17.95	17.95	17.95				
10	256QAM	50	1273	17.95	17.95	17.95				
10	256QAM	50	1285	17.95	17.95	17.95				
10	256QAM	50	1297	17.95	17.95	17.95				
10	256QAM	50	1309	17.95	17.95	17.95				
10	256QAM	50	1321	17.95	17.95	17.95				
10	256QAM	50	1333	17.95	17.95	17.95				
10	256QAM	50	1345	17.95	17.95	17.95				
10	256QAM	50	1357	17.95	17.95	17.95				
10	256QAM	50	1369	17.95	17.95	17.95				
10	256QAM	50	1381	17.95	17.95	17.95				
10	256QAM	50	1393	17.95	17.95	17.95				
10	256QAM	50	1405	17.95	17.95	17.95				
10	256QAM	50	1417	17.95	17.95	17.95				
10	256QAM									



Band 13_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turn-up limit (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.86					24	0
10	QPSK	1	24	22.84						
10	QPSK	1	48	22.82						
10	QPSK	25	0	21.88					23	1
10	QPSK	25	12	21.85						
10	QPSK	25	25	21.82						
10	QPSK	50	0	21.73						
10	HQAM	1	25	22.10					23	1
10	HQAM	1	49	22.02						
10	HQAM	25	0	20.92						
10	HQAM	25	12	20.87					22	2
10	HQAM	25	25	20.84						
10	HQAM	50	0	20.57						
10	HQAM	1	0	20.81					22	2
10	HQAM	1	25	20.92						
10	HQAM	1	49	20.89						
10	HQAM	25	0	20.85						
10	HQAM	25	12	20.84					21	3
10	HQAM	25	25	20.82						
10	HQAM	50	0	20.56						
10	ZSSBAM	1	25	18.05					19	5
10	ZSSBAM	1	49	18.11						
10	ZSSBAM	25	0	17.91						
10	ZSSBAM	25	12	18.07					19	5
10	ZSSBAM	25	25	18.07						
10	ZSSBAM	50	0	17.81						
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.84	22.83	22.85			24	0
5	QPSK	1	12	22.82	22.80	22.83				
5	QPSK	1	24	22.83	22.48	22.50				
5	QPSK	12	0	21.84	21.89	21.83			23	1
5	QPSK	12	7	21.72	21.84	21.85				
5	QPSK	12	13	21.63	21.52	21.60				
5	QPSK	25	0	21.65	21.59	21.61				
5	HQAM	1	0	22.05	21.91	21.88			23	1
5	HQAM	1	12	21.99	21.83	22.13				
5	HQAM	12	0	20.54	20.54	20.60				
5	HQAM	12	7	20.70	20.41	20.59			22	2
5	HQAM	12	13	20.63	20.58	20.73				
5	HQAM	25	0	20.73	20.62	20.48				
5	HQAM	1	0	20.88	20.81	20.50			22	2
5	HQAM	1	12	21.20	20.69	20.58				
5	HQAM	1	24	21.27	20.90	20.34				
5	HQAM	12	0	19.72	19.71	19.74			21	3
5	HQAM	12	7	19.68	19.72	19.87				
5	HQAM	12	13	19.80	19.75	19.53				
5	HQAM	25	0	19.48	19.65	19.55				
5	ZSSBAM	1	0	17.80	17.82	17.88			19	5
5	ZSSBAM	1	12	17.97	17.94	17.91				
5	ZSSBAM	1	24	18.04	17.98	18.02				
5	ZSSBAM	12	0	17.80	17.84	17.78			19	5
5	ZSSBAM	12	7	17.85	17.84	17.89				
5	ZSSBAM	12	13	17.89	17.82	17.92				
5	ZSSBAM	25	0	17.85	17.84	17.77				

Band 17_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup limit (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.71	22.77	22.74			24	0
10	QPSK	1	25	22.66	22.76	22.74				
10	QPSK	1	49	22.58	22.68	22.64				
10	QPSK	25	0	21.68	21.72	21.70			23	1
10	QPSK	25	12	21.67	21.69	21.70				
10	QPSK	25	25	21.64	21.65	21.67				
10	QPSK	50	0	21.25	21.78	21.77				
10	HQAM	1	0	22.00	21.93	21.64			23	1
10	HQAM	1	25	21.80	21.78	22.25				
10	HQAM	1	49	21.72	21.95	22.30				
10	HQAM	25	0	20.56	20.85	20.81			22	2
10	HQAM	25	12	20.55	20.87	20.87				
10	HQAM	25	25	20.64	20.91	20.85				
10	HQAM	50	0	20.59	20.82	20.86				
10	HQAM	1	0	20.62	20.65	20.86			22	2
10	HQAM	1	25	20.90	21.03	20.46				
10	HQAM	1	49	20.80	20.63	21.05				
10	HQAM	25	0	19.73	19.71	19.56			21	3
10	HQAM	25	12	19.77	19.81	19.72				
10	HQAM	25	25	19.55	19.82	19.81				
10	HQAM	50	0	19.67	19.79	19.56				
10	ZSSBAM	1	0	18.04	18.06	18.04			19	5
10	ZSSBAM	1	25	18.05	18.00	18.12				
10	ZSSBAM	1	49	18.07	18.05	18.09				
10	ZSSBAM	25	0	18.03	18.00	18.08			19	5
10	ZSSBAM	25	12	18.08	18.02	18.03				
10	ZSSBAM	25	25	18.01	18.06	18.03				
10	ZSSBAM	50	0	18.05	18.00	18.03				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.72	22.70	22.74			24	0
5	QPSK	1	12	22.61	22.69	22.71				
5	QPSK	1	24	22.64	22.66	22.67				
5	QPSK	12	0	21.75	21.79	21.79			23	1
5	QPSK	12	7	21.60	21.76	21.83				
5	QPSK	12	13	21.75	21.76	21.79				
5	QPSK	25	0	21.78	21.78	21.78			23	1
5	HQAM	1	0	22.08	22.10	22.11			23	1
5	HQAM	1	12	22.10	22.21	22.13				
5	HQAM	12	0	20.83	20.77	20.85			22	2
5	HQAM	12	7	20.85	20.84	20.94				
5	HQAM	12	13	20.85	20.84	20.94				
5	HQAM	25	0	20.80	20.75	20.75			22	2
5	HQAM	1	0	20.86	20.93	20.95				
5	HQAM	1	12	20.87	21.80	21.88			21	3
5	HQAM	1	24	20.51	20.92	20.93				
5	HQAM	12	0	19.77	19.83	19.84				
5	HQAM	12	7	19.85	19.79	19.90				
5	HQAM	12	13	19.75	19.81	19.82				
5	HQAM	25	0	19.78	19.81	19.82				
5	ZSSBAM	1	0	17.89	17.90	17.98			19	5
5	ZSSBAM	1	12	17.98	17.93	18.05				
5	ZSSBAM	1	24	17.93	17.99	17.93				
5	ZSSBAM	12	0	17.80	17.80	17.92			19	5
5	ZSSBAM	12	7	17.85	17.84	17.98				
5	ZSSBAM	12	13	17.87	17.85	17.97				
5	ZSSBAM	25	0	17.82	17.88	17.86				

Band 25_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Turnup limit (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.68	18.02	18.08			19.5	0
20	QPSK	1	24	17.60	18.25	18.01				
20	QPSK	1	48	17.54	18.09	17.91				
20	QPSK	50	0	17.68	18.20	17.96			19.5	0
20	QPSK	50	24	17.65	18.01	17.84				
20	QPSK	50	50	17.65	18.00	17.70				
20	QPSK	100	0	17.67	18.11	17.87				
20	HQAM	1	0	17.88	18.04	17.91			19.5	0
20	HQAM	1	49	17.92	18.02	17.87				
20	HQAM	1	99	17.85	18.23	17.99				
20	HQAM	50	0	17.85	18.04	17.90			19.5	0
20	HQAM	50	24	17.99	17.99	17.79				
20	HQAM	50	50	17.88	18.14	18.08				
20	HQAM	100	0	17.90	18.16	17.82				
20	HQAM	1	0	17.91	18.00	17.89			19.5	0
20	HQAM	1	49	18.05	18.24	17.99				
20	HQAM	1	99	17.85	18.05	17.82				
20	HQAM	50	0	17.85	18.03	17.78			19.5	0
20	HQAM	50	24	18.04	18.17	18.00				
20	HQAM	50	50	17.98	18.06	17.85				
20	HQAM	100	0	17.77	17.89					



Band 26_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power Ch. / Freq.	Power Ch. / Freq.	Time-up (sec)	MPE (dB)		
Channel										
				841.5	841.5	841.5				
15	QPSK	1	0	22.56	22.56	22.53				
15	QPSK	1	74	22.53	22.53	22.49	24	0		
15	QPSK	36	0	21.80	21.81	21.79				
15	QPSK	36	25	21.72	21.72	21.68	23	1		
15	QPSK	36	38	21.57	21.78	21.68				
15	QPSK	75	0	21.71	21.76	21.67				
15	QPSK	75	2	21.76	22.23	22.20				
15	16QAM	1	37	22.14	22.21	21.83	23	1		
15	16QAM	1	74	21.90	21.82	22.09				
15	16QAM	36	0	20.88	20.90	20.85				
15	16QAM	36	20	20.74	20.91	20.88	22	2		
15	16QAM	36	37	20.74	20.94	20.84				
15	16QAM	75	0	20.99	21.05	20.94				
15	64QAM	1	37	20.94	20.96	20.81	22	2		
15	64QAM	1	74	20.99	20.99	20.81				
15	64QAM	36	0	19.72	19.77	19.77				
15	64QAM	36	20	19.75	19.80	19.75	21	3		
15	64QAM	36	38	19.83	19.84	19.80				
15	64QAM	75	0	19.87	19.86	19.82				
15	256QAM	1	0	17.83	17.81	17.84	19	5		
15	256QAM	1	37	17.84	17.82	17.80				
15	256QAM	1	74	17.82	17.81	17.80				
15	256QAM	36	20	17.89	17.72	17.72	19	5		
15	256QAM	36	38	17.73	17.76	17.77				
15	256QAM	75	0	17.86	17.75	17.80				
Channel										
				819	819.5	846.0				
15	QPSK	1	0	22.51	22.45	22.47				
15	QPSK	1	28	22.50	22.46	22.42	24	0		
15	QPSK	1	48	22.50	22.51	22.48				
15	QPSK	26	0	21.63	21.55	21.56				
15	QPSK	26	15	21.60	21.56	21.60	23	1		
15	QPSK	26	28	21.58	21.62	21.63				
15	QPSK	50	0	21.62	21.59	21.58				
15	16QAM	1	0	21.88	21.88	21.88				
15	16QAM	1	28	21.82	21.83	21.89	23	1		
15	16QAM	1	48	21.86	21.87	21.86				
15	16QAM	26	0	20.66	20.65	20.61				
15	16QAM	26	15	20.65	20.62	20.60	22	2		
15	16QAM	26	28	20.62	20.67	20.58				
15	64QAM	1	0	20.83	20.75	20.75	22	2		
15	64QAM	1	28	20.83	20.82	20.80				
15	64QAM	1	48	20.98	20.97	20.71				
15	64QAM	26	0	19.87	19.82	19.82	21	3		
15	64QAM	26	15	19.87	19.85	19.83				
15	64QAM	26	28	19.82	19.87	19.89				
15	64QAM	50	0	19.85	19.88	19.89				
15	256QAM	1	0	17.73	17.73	17.73	19	5		
15	256QAM	1	28	17.62	17.67	17.65				
15	256QAM	1	48	17.76	17.87	17.82				
15	256QAM	26	0	17.82	17.86	17.82				
15	256QAM	26	15	17.84	17.82	17.85	19	5		
15	256QAM	26	28	17.86	17.81	17.82				
15	256QAM	50	0	17.86	17.86	17.80				
Channel										
				879.5	888.5	929.5				
5	QPSK	1	0	22.41	22.41	22.41				
5	QPSK	1	24	22.51	22.51	22.45	24	0		
5	QPSK	1	48	22.50	22.50	22.47				
5	QPSK	12	7	21.59	21.59	21.56				
5	QPSK	12	13	21.54	21.59	21.52	23	1		
5	QPSK	25	2	21.58	21.62	21.62				
5	16QAM	1	0	21.94	21.90	21.82				
5	16QAM	1	12	21.80	21.88	21.75	23	1		
5	16QAM	1	24	21.86	21.87	21.86				
5	16QAM	12	7	20.99	20.94	20.81				
5	16QAM	12	13	20.81	20.88	20.80	22	2		
5	16QAM	25	0	20.85	20.86	20.87				
5	16QAM	25	4	20.80	20.49	20.59				
5	64QAM	1	0	20.73	20.71	20.83	22	2		
5	64QAM	1	12	20.82	20.82	20.82				
5	64QAM	1	24	20.72	20.73	20.69				
5	64QAM	12	7	19.83	19.86	19.70				
5	64QAM	12	13	19.84	19.85	19.83	21	3		
5	64QAM	25	0	19.59	19.59	19.59				
5	64QAM	25	4	19.80	19.50	19.61				
5	256QAM	1	0	17.58	17.58	17.77	19	5		
5	256QAM	1	12	17.59	17.76	17.74				
5	256QAM	1	24	17.76	17.86	17.85				
5	256QAM	12	7	17.83	17.87	17.87				
5	256QAM	12	13	17.86	17.82	17.86	19	5		
5	256QAM	25	0	17.84	17.82	17.80				
Channel										
				813.5	831.2	846.5				
3	QPSK	1	0	22.41	22.41	22.41				
3	QPSK	1	14	22.48	22.52	22.50	24	0		
3	QPSK	1	48	22.52	22.52	22.44				
3	QPSK	8	7	21.61	21.61	21.59				
3	QPSK	8	7	21.59	21.56	21.47	23	1		
3	16QAM	1	0	21.88	21.88	21.88				
3	16QAM	1	8	21.93	21.86	21.87	23	1		
3	16QAM	1	16	21.79	21.79	21.82				
3	16QAM	8	0	20.63	20.50	20.58				
3	16QAM	8	4	20.69	20.65	20.66	22	2		
3	16QAM	15	0	20.60	20.52	20.60				
3	64QAM	1	0	20.73	20.66	20.78	22	2		
3	64QAM	1	8	20.82	20.75	20.79				
3	64QAM	1	14	20.79	20.78	20.70				
3	64QAM	8	0	19.85	19.84	19.82	21	3		
3	64QAM	8	4	19.85	19.89	19.83				
3	64QAM	15	0	19.82	19.87	19.84				
3	256QAM	1	0	17.80	17.83	17.84	19	5		
3	256QAM	1	14	17.71	17.83	17.77				
3	256QAM	1	28	17.81	17.92	17.89				
3	256QAM	8	4	17.88	17.87	17.87	19	5		
3	256QAM	15	0	17.82	17.84	17.80				
Channel										
				2667	2686	2743.5				
1.4	QPSK	1	0	22.38	22.35	22.29				
1.4	QPSK	1	3	22.47	22.41	22.41	24	0		
1.4	QPSK	1	24	22.50	22.44	22.37				
1.4	QPSK	1	25	22.42	22.42	22.45				
1.4	QPSK	1	48	22.49	22.49	22.37	23	1		
1.4	16QAM	1	0	21.77	21.79	21.72				
1.4	16QAM	1	3	21.81	21.83	21.79	23	1		
1.4	16QAM	1	5	21.83	21.77	21.86				
1.4	16QAM	1	9	21.55	21.45	21.43				
1.4	16QAM	3	1	21.53	21.47	21.47				
1.4	16QAM	3	3	21.54	21.53	21.42				
1.4	16QAM	6	0	20.87	20.52	20.53	22	2		
1.4	16QAM	6	3	20.70	20.64	20.66				
1.4	64QAM	1	0	20.79	20.74	20.70				
1.4	64QAM	1	5	20.72	20.73	20.62	22	2		
1.4	64QAM	3	1	20.66	20.53	20.61				
1.4	64QAM	3	3	20.60	20.68	20.58				
1.4	256QAM	1	0	17.73	17.65	17.69	21	3		
1.4	256QAM	1	3	17.59	17.69	17.71				
1.4	256QAM	1	6	17.86	17.86	17.83				
1.4	256QAM	3	1	17.84	17.82	17.83	19	5		
1.4	256QAM	3	3	17.86	17.81	17.86				
1.4	256QAM	6	0	17.82	17.84	17.80				
Channel										
				2667	2686	2743.5				



Band 38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Time-up limit (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.87	20.71	20.53	21.4	0	
20	QPSK	1	49	20.92	20.40	20.35			
20	QPSK	1	99	20.91	20.84	20.59			
20	QPSK	50	0	20.47	20.52	20.43	21.4	0	
20	QPSK	50	24	20.46	20.43	20.31			
20	QPSK	50	50	20.40	20.40	20.30			
20	QPSK	100	0	20.51	20.43	20.34	21.4	0	
20	QPSK	100	49	20.40	20.51	20.32			
20	QPSK	100	99	20.46	20.47	20.23	21.4	0	
20	QPSK	50	24	20.43	20.44	20.38			
20	QPSK	50	50	20.45	20.39	20.50			
20	QPSK	100	0	20.46	20.51	20.28	21.4	0	
20	QPSK	100	49	20.39	20.42	20.52			
20	QPSK	100	99	20.47	20.47	20.50	21.4	0	
20	QPSK	1	99	20.43	20.37	20.37			
20	QPSK	50	0	20.47	20.46	20.35	21	0.4	
20	QPSK	50	24	20.33	20.41	20.43			
20	QPSK	50	50	20.53	20.43	20.38			
20	QPSK	100	0	20.46	20.46	20.38	21.4	0	
20	QPSK	100	49	17.73	17.84	17.73			
20	QPSK	100	99	17.76	17.85	17.85	19	2.4	
20	QPSK	50	24	17.86	17.92	17.78			
20	QPSK	50	50	17.84	18.00	17.99			
20	QPSK	100	24	18.01	18.11	18.04	19	2.4	
20	QPSK	100	50	17.98	17.92	17.95			
20	QPSK	100	0	17.91	18.02	17.91			
Channel									
Frequency (MHz)									
15	QPSK	1	0	20.51	20.61	20.42	21.4	0	
15	QPSK	1	49	20.40	20.35	20.35			
15	QPSK	1	74	20.52	20.55	20.31			
15	QPSK	36	0	20.30	20.37	20.32	21.4	0	
15	QPSK	36	36	20.35	20.35	20.31			
15	QPSK	36	39	20.30	20.32	20.18			
15	QPSK	75	0	20.16	20.41	20.41	21.4	0	
15	QPSK	75	0	20.26	20.27	20.24			
15	QPSK	1	37	20.26	20.43	20.20	21.4	0	
15	QPSK	36	0	20.33	20.37	20.13			
15	QPSK	36	20	20.29	20.33	20.24	21.4	0	
15	QPSK	36	39	20.36	20.37	20.16			
15	QPSK	75	0	20.43	20.26	20.24	21.4	0	
15	QPSK	75	0	20.33	20.31	20.32			
15	QPSK	75	0	20.33	20.41	20.16			
15	QPSK	1	0	20.43	20.26	20.24	21.4	0	
15	QPSK	1	74	20.33	20.23	20.21			
15	QPSK	36	39	20.42	20.39	20.25	21	0.4	
15	QPSK	36	39	20.40	20.38	20.25			
15	QPSK	75	0	20.38	20.38	20.22			
15	QPSK	75	0	20.36	17.75	17.68	19	2.4	
15	QPSK	1	37	17.67	17.89	17.78			
15	QPSK	36	0	17.73	17.92	17.93			
15	QPSK	36	20	17.83	18.01	17.98	19	2.4	
15	QPSK	36	20	17.95	17.99	17.98			
15	QPSK	75	0	17.77	17.94	17.76			
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.61	20.57	20.37	21.4	0	
10	QPSK	1	25	20.46	20.41	20.20			
10	QPSK	24	24	20.48	20.58	20.28	21.4	0	
10	QPSK	25	0	20.34	20.40	20.29			
10	QPSK	25	12	20.37	20.37	20.25	21.4	0	
10	QPSK	25	25	20.30	20.33	20.17			
10	QPSK	50	0	20.14	20.42	20.46	21.4	0	
10	QPSK	50	24	20.29	20.36	20.26			
10	QPSK	1	25	20.34	20.44	20.25	21.4	0	
10	QPSK	1	49	20.25	20.38	20.33			
10	QPSK	25	0	20.36	20.39	20.18	21.4	0	
10	QPSK	25	12	20.37	20.29	20.24			
10	QPSK	25	25	20.36	20.26	20.27			
10	QPSK	50	0	20.30	20.38	20.17	21.4	0	
10	QPSK	1	0	20.36	20.32	20.23			
10	QPSK	1	25	20.25	20.40	20.35	21.4	0	
10	QPSK	1	49	20.25	20.33	20.25			
10	QPSK	25	0	20.38	20.35	20.24			
10	QPSK	25	12	20.22	20.36	20.34			
10	QPSK	25	25	20.30	20.38	20.17	21	0.4	
10	QPSK	50	0	20.30	20.37	20.15			
10	QPSK	50	0	20.41	20.33	20.13			
10	QPSK	100	0	17.65	17.70	17.67	19	2.4	
10	QPSK	100	49	17.85	17.92	17.89			
10	QPSK	25	25	17.91	17.99	17.98			
10	QPSK	50	0	17.83	17.95	17.78			
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.52	20.58	20.48	21.4	0	
5	QPSK	1	12	20.46	20.50	20.19			
5	QPSK	12	0	20.33	20.39	20.29	21.4	0	
5	QPSK	12	7	20.34	20.28	20.16			
5	QPSK	12	13	20.34	20.34	20.16			
5	QPSK	25	0	20.21	20.44	20.39	21.4	0	
5	QPSK	1	0	20.46	20.34	20.23	21.4	0	
5	QPSK	1	12	20.35	20.43	20.24			
5	QPSK	1	24	20.21	20.40	20.34			
5	QPSK	12	0	20.36	20.38	20.11	21.4	0	
5	QPSK	12	7	20.38	20.39	20.24			
5	QPSK	12	13	20.36	20.32	20.28	21.4	0	
5	QPSK	25	0	20.37	20.39	20.18			
5	QPSK	1	12	20.24	20.42	20.35	21.4	0	
5	QPSK	1	24	20.36	20.26	20.32			
5	QPSK	12	0	20.34	20.35	20.28			
5	QPSK	12	7	20.29	20.32	20.33	21	0.4	
5	QPSK	12	13	20.41	20.33	20.18			
5	QPSK	25	0	20.37	20.40	20.17			
5	QPSK	1	0	17.69	17.70	17.67	19	2.4	
5	QPSK	1	12	17.71	17.82	17.77			
5	QPSK	1	24	17.76	17.88	17.59			
5	QPSK	12	0	17.86	17.84	17.84			
5	QPSK	12	7	17.93	18.00	17.90	19	2.4	
5	QPSK	12	13	17.95	17.89	17.79			
5	QPSK	25	0	17.75	17.81	17.78			

Band 38_Ant 0 HPUE									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Max Ch./Freq.	Time-up limit (min)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.31	22.23	22.23	23	0	
20	QPSK	1	49	22.33	22.23	22.23			
20	QPSK	1	99	22.27	22.21	22.28			
20	QPSK	50	0	22.21	22.28	22.18	23	0	
20	QPSK	50	24	22.16	22.16	22.16			
20	QPSK	50	50	22.17	22.11	22.18			
20	QPSK	100	0	22.25	22.10	22.20	23	0	
20	QPSK	100	49	22.24	22.18	22.16			
20	QPSK	100	99	22.27	22.23	22.21	23	0	
20	QPSK	50	24	22.10	22.23	22.14	23	0	
20	QPSK	50	50	22.22	22.16	22.23			
20	QPSK	100	0	22.24	22.17	22.17	23	0	
20	QPSK	100	49	22.24	22.16	22.10			
20	QPSK	100	99	22.29	22.23	22.25	23	0	
20	QPSK	1	99	22.25	22.24	22.27			
20	QPSK	50	0	22.17	22.28	22.18	23	0	
20	QPSK	50	24	22.15	22.13	22.10			
20	QPSK	50	50	22.21	22.09	22.17			
20	QPSK	100	0	22.08	22.08	22.01	22	1	
20	QPSK	100	49	20.42	20.48	20.38			
20	QPSK	100	99	20.45	20.51	20.44			
20	QPSK	50	24	20.41	20.44	20.42	22	1	
20	QPSK	50	50	20.40	20.43	20.38			
20	QPSK	100	0	20.31	20.43	20.31	22	1	
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.28	22.21	22.19	23	0	
15	QPSK	1	49	22.33	22.23	22.23			
15	QPSK	1	74	22.14	22.14	22.15			



Band 38 HPUE_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Mid Ch. / Freq.	Time-up limit (dB)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	20.43	20.59	20.54	22.2	0		
20	QPSK	1	49	20.47	20.45	20.41				
20	QPSK	1	99	20.47	20.33	20.34				
20	QPSK	50	0	20.29	20.51	20.41	22.2	0		
20	QPSK	50	24	20.30	20.41	20.30				
20	QPSK	50	50	20.47	20.30	20.28				
20	QPSK	100	0	20.29	20.49	20.39	22.2	0		
20	QPSK	100	24	20.40	20.34	20.38				
20	QPSK	100	49	20.40	20.32	20.29				
20	QPSK	500	0	20.27	20.43	20.38	22.2	0		
20	QPSK	500	24	20.30	20.33	20.25				
20	QPSK	500	50	20.29	20.29	20.28				
20	QPSK	1000	0	20.32	20.32	20.31	22.2	0		
20	QPSK	1000	1	20.49	20.20	20.52				
20	QPSK	1000	1	20.49	20.41	20.34				
20	QPSK	1	0	20.46	20.34	20.29	22.2	0		
20	QPSK	1	99	20.46	20.34	20.29				
20	QPSK	1	99	20.46	20.34	20.29				
20	QPSK	50	0	20.37	20.40	20.36	22.2	0		
20	QPSK	50	24	20.32	20.42	20.31				
20	QPSK	50	50	20.38	20.27	20.28				
20	QPSK	100	0	20.46	20.26	20.26	20.5	1.7		
20	QPSK	100	1	18.20	18.90	18.71				
20	QPSK	100	1	18.20	18.94	18.92				
20	QPSK	500	0	18.81	18.81	18.70	20.5	1.7		
20	QPSK	500	24	18.83	18.83	18.82				
20	QPSK	500	50	18.82	18.82	18.81				
20	QPSK	1000	0	18.73	18.86	18.75	20.5	1.7		
20	QPSK	1000	1	18.73	18.86	18.75				
20	QPSK	1000	1	18.73	18.86	18.75				
Channel										
Frequency (MHz)										
15	QPSK	1	0	20.38	20.53	20.54	22.2	0		
15	QPSK	1	49	20.44	20.46	20.46				
15	QPSK	1	99	20.48	20.28	20.37				
15	QPSK	50	0	20.23	20.55	20.43	22.2	0		
15	QPSK	50	24	20.26	20.45	20.34				
15	QPSK	50	50	20.50	20.34	20.24				
15	QPSK	100	0	20.20	20.50	20.34	22.2	0		
15	QPSK	100	24	20.30	20.39	20.32				
15	QPSK	100	49	20.45	20.35	20.32				
15	QPSK	500	0	20.27	20.41	20.38	22.2	0		
15	QPSK	500	24	20.30	20.32	20.33				
15	QPSK	500	50	20.30	20.31	20.24				
15	QPSK	1000	0	20.30	20.30	20.24	22.2	0		
15	QPSK	1000	24	20.32	20.36	20.34				
15	QPSK	1000	49	20.41	20.21	20.28				
15	QPSK	1	0	20.43	20.33	20.29	22.2	0		
15	QPSK	1	99	20.43	20.33	20.29				
15	QPSK	1	99	20.43	20.33	20.29				
15	QPSK	50	0	20.32	20.25	20.25	22.2	0		
15	QPSK	50	24	20.30	20.42	20.33				
15	QPSK	50	50	20.31	20.27	20.34				
15	QPSK	100	0	20.45	20.29	20.22	20.5	1.7		
15	QPSK	100	1	18.79	18.86	18.75				
15	QPSK	100	1	18.89	18.89	18.81				
15	QPSK	500	0	18.73	18.88	18.74	20.5	1.7		
15	QPSK	500	24	18.80	18.89	18.83				
15	QPSK	500	50	18.82	18.88	18.81				
15	QPSK	1000	0	18.77	18.84	18.71	20.5	1.7		
15	QPSK	1000	1	18.77	18.84	18.71				
15	QPSK	1000	1	18.77	18.84	18.71				
Channel										
Frequency (MHz)										
10	QPSK	1	0	20.39	20.56	20.54	22.2	0		
10	QPSK	1	24	20.43	20.40	20.45				
10	QPSK	1	49	20.47	20.35	20.34				
10	QPSK	25	0	20.21	20.47	20.39	22.2	0		
10	QPSK	25	12	20.30	20.30	20.34				
10	QPSK	25	25	20.45	20.33	20.29				
10	QPSK	50	0	20.28	20.43	20.33	22.2	0		
10	QPSK	50	12	20.38	20.35	20.33				
10	QPSK	50	25	20.40	20.38	20.34				
10	QPSK	100	0	20.26	20.48	20.41	22.2	0		
10	QPSK	100	12	20.31	20.32	20.43				
10	QPSK	100	25	20.31	20.31	20.29				
10	QPSK	250	0	20.28	20.30	20.52	22.2	0		
10	QPSK	250	12	20.28	20.37	20.30				
10	QPSK	250	25	20.48	20.22	20.29				
10	QPSK	500	0	20.25	20.43	20.39	22.2	0		
10	QPSK	500	12	20.45	20.35	20.33				
10	QPSK	500	25	20.25	20.43	20.39				
10	QPSK	1000	0	20.33	20.28	20.26	22.2	0		
10	QPSK	1000	12	20.34	20.40	20.38				
10	QPSK	1000	25	20.38	20.25	20.31				
10	QPSK	50	0	20.44	20.28	20.23	22.2	0		
10	QPSK	50	12	18.82	18.84	18.85				
10	QPSK	50	25	18.92	18.88	18.85				
10	QPSK	100	0	18.79	18.81	18.71	20.5	1.7		
10	QPSK	100	12	18.86	18.86	18.75				
10	QPSK	100	25	18.96	18.82	18.83				
10	QPSK	250	0	18.76	18.84	18.89	20.5	1.7		
10	QPSK	250	12	18.76	18.86	18.77				
10	QPSK	250	25	18.76	18.86	18.77				
Channel										
Frequency (MHz)										
5	QPSK	1	0	20.37	20.52	20.58	22.2	0		
5	QPSK	1	12	20.43	20.40	20.40				
5	QPSK	1	24	20.41	20.35	20.34				
5	QPSK	12	0	20.26	20.54	20.39	22.2	0		
5	QPSK	12	7	20.29	20.42	20.34				
5	QPSK	12	15	20.29	20.28	20.23				
5	QPSK	25	0	20.23	20.44	20.35	22.2	0		
5	QPSK	25	7	20.36	20.37	20.40				
5	QPSK	25	15	20.30	20.34	20.35				
5	QPSK	50	0	20.26	20.42	20.39	22.2	0		
5	QPSK	50	7	20.32	20.25	20.43				
5	QPSK	50	15	20.33	20.37	20.20				
5	QPSK	100	0	20.24	20.27	20.30	22.2	0		
5	QPSK	100	7	20.36	20.30	20.28				
5	QPSK	100	15	20.40	20.39	20.25				
5	QPSK	250	0	20.38	20.29	20.22	22.2	0		
5	QPSK	250	7	20.30	20.38	20.20				
5	QPSK	250	15	20.29	20.29	20.30				
5	QPSK	500	0	20.30	20.27	20.29	22.2	0		
5	QPSK	500	7	20.30	20.27	20.29				
5	QPSK	500	15	20.30	20.27	20.29				
5	QPSK	1000	0	18.85	18.85	18.77	20.5	1.7		
5	QPSK	1000	7	18.87	18.89	18.86				
5	QPSK	1000	15	18.84	18.80	18.74				
5	QPSK	2500	0	18.94	18.89	18.83	20.5	1.7		
5	QPSK	2500	7	18.82	18.86	18.85				
5	QPSK	2500	15	18.78	18.85	18.78				

Band 41_Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (dB)	MFR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	20.71	20.48	20.73	20.56	20.72	20.56	21.4	0
20	QPSK	1	49	20.70	20.41	20.61	20.51	20.60	20.60		
20	QPSK	1	99	20.57	20.45	20.69	20.53	20.70	20.70		
20	QPSK	50	0	20.61	20.46	20.67	20.51	20.68	20.68	21.4	0
20	QPSK	50	24	20.58	20.48	20.54	20.50	20.53	20.53		
20	QPSK	50	50	20.53	20.48	20.59	20.45	20.55	20.55		
20	QPSK	100	0	20.58	20.49	20.62	20.46	20.62	20.62	21.4	0
20	QPSK	100	24	20.54	20.48	20.52	20.46	20.52	20.52		
20	QPSK	100	49	20.54	20.48	20.52	20.36	20.61	20.61		
20	QPSK	500	0	20.57	20.40	20.53	20.51	20.54	20.54	21.4	0
20	QPSK	500	24	20.63	20.45	20.47	20.46	20.61	20.61		
20	QPSK	500	50	20.48	20.58	20.57	20.54	20.59	20.59		
20	QPSK	1000	0	20.50	20.44	20.51	20.55	20.44	20.44	21.4	0
20	QPSK	1000	1	20.52	20.62	20.49	20.40	20.58	20.58		
20	QPSK	1000	1	20.52	20.47	20.64	20.48	20.58			



Band 41 HPUE_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.	Time-up limit (min)	MRR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.30	22.32	22.34	22.30	22.29	22.30	23	0
20	QPSK	1	49	22.31	22.31	22.28	22.32	22.29	22.31	23	0
20	QPSK	1	99	22.21	22.23	22.23	22.29	22.23	22.23	23	0
20	QPSK	50	0	22.19	22.22	22.24	22.14	22.19	22.19	23	0
20	QPSK	50	24	22.14	22.11	22.02	22.13	22.15	22.14	23	0
20	QPSK	50	50	22.08	22.14	22.11	22.09	22.12	22.12	23	0
20	QPSK	100	0	22.06	22.10	22.08	22.06	22.07	22.07	23	0
20	16QAM	1	0	22.10	22.27	22.04	22.08	22.11	22.11	23	0
20	16QAM	1	49	22.23	22.15	22.15	22.12	22.12	22.12	23	0
20	16QAM	50	0	22.11	22.11	22.08	22.15	22.13	22.13	23	0
20	16QAM	50	24	22.24	22.10	22.04	22.25	22.09	22.09	23	0
20	16QAM	100	0	22.19	22.11	22.08	22.12	22.14	22.14	23	0
20	16QAM	100	24	22.14	22.19	22.12	22.24	22.16	22.16	23	0
20	64QAM	1	0	22.20	22.16	22.07	22.09	22.09	22.09	23	0
20	64QAM	1	99	22.23	22.15	22.09	22.20	22.15	22.15	23	0
20	64QAM	50	24	22.05	22.21	22.17	22.14	22.15	22.15	23	0
20	64QAM	50	50	22.15	22.14	22.11	22.18	22.17	22.17	23	0
20	64QAM	100	0	22.12	22.13	22.08	22.07	22.09	22.09	23	0
20	256QAM	1	0	20.21	20.24	20.40	20.53	20.57	20.57	22	1
20	256QAM	1	49	20.19	20.14	20.35	20.48	20.52	20.52	22	1
20	256QAM	1	99	20.09	20.41	20.41	20.41	20.69	20.69	22	1
20	256QAM	50	0	20.48	20.33	20.48	20.58	20.70	20.70	22	1
20	256QAM	50	24	20.44	20.28	20.54	20.66	20.84	20.84	22	1
20	256QAM	100	0	20.35	20.20	20.54	20.54	20.74	20.74	22	1
20	256QAM	100	0	20.35	20.29	20.41	20.64	20.64	20.64	22	1
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.23	22.25	22.18	22.18	22.18	22.18	23.00	0
15	QPSK	1	39	22.13	22.21	22.06	22.02	22.23	22.23	23.00	0
15	QPSK	1	74	22.14	22.14	22.09	22.18	22.12	22.12	23.00	0
15	QPSK	36	0	22.05	22.13	22.15	22.07	22.09	22.09	23	0
15	QPSK	36	20	22.02	22.04	21.93	22.02	22.05	22.05	23	0
15	QPSK	36	39	21.97	22.00	22.06	21.98	22.08	22.08	23	0
15	QPSK	75	0	21.96	22.10	22.10	22.02	21.91	21.91	23	0
15	16QAM	1	0	22.01	22.19	21.99	22.02	22.04	22.04	23	0
15	16QAM	1	39	22.15	22.08	22.01	22.07	22.05	22.05	23	0
15	16QAM	36	0	22.17	21.94	21.94	22.17	21.98	21.98	23	0
15	16QAM	36	20	21.95	22.13	22.03	21.99	21.97	21.97	23	0
15	16QAM	75	0	22.01	21.94	21.96	22.02	22.02	22.02	23	0
15	16QAM	75	0	22.11	21.97	21.98	22.04	22.15	22.15	23	0
15	64QAM	1	0	22.03	22.07	21.96	22.13	22.02	22.02	23	0
15	64QAM	1	39	22.12	22.03	22.11	22.15	22.05	22.05	23	0
15	64QAM	1	74	22.09	22.02	21.89	22.15	22.04	22.04	23	0
15	64QAM	36	0	21.96	21.91	22.02	22.10	22.15	22.15	23	0
15	64QAM	36	20	21.90	21.13	22.05	22.02	22.02	22.02	23	0
15	64QAM	36	39	22.08	22.02	21.96	22.06	22.07	22.07	23	0
15	64QAM	75	0	22.00	22.08	22.05	21.94	22.10	22.10	23	0
15	256QAM	1	0	20.06	20.11	20.33	20.48	20.55	20.55	22	1
15	256QAM	1	39	20.05	20.09	20.27	20.37	20.38	20.38	22	1
15	256QAM	1	74	20.13	20.02	20.12	20.12	20.12	20.12	22	1
15	256QAM	36	0	20.35	20.24	20.43	20.43	20.54	20.54	22	1
15	256QAM	36	20	20.31	20.17	20.42	20.57	20.48	20.48	22	1
15	256QAM	75	0	20.23	20.08	20.45	20.45	20.59	20.59	22	1
15	256QAM	75	0	20.29	20.14	20.33	20.49	20.47	20.47	22	1
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.17	22.17	22.22	22.16	22.22	22.22	23.00	0
10	QPSK	1	25	22.07	22.20	22.21	21.96	22.17	22.17	23.00	0
10	QPSK	1	49	22.05	22.15	22.17	22.23	22.11	22.11	23	0
10	QPSK	26	0	22.02	22.16	22.17	22.06	22.09	22.09	23	0
10	QPSK	26	12	22.04	22.09	21.99	22.04	22.09	22.09	23	0
10	QPSK	26	25	21.92	22.09	21.96	22.00	22.00	22.00	23	0
10	QPSK	50	0	22.04	22.03	22.08	22.03	22.01	22.01	23	0
10	16QAM	1	0	22.09	22.15	22.02	22.05	22.06	22.06	23	0
10	16QAM	1	25	22.10	22.08	22.05	22.06	22.05	22.05	23	0
10	16QAM	1	49	21.98	22.12	21.96	22.04	22.01	22.01	23	0
10	16QAM	26	0	22.13	22.05	21.94	22.19	21.96	21.96	23	0
10	16QAM	26	12	21.98	22.10	22.06	22.08	21.97	21.97	23	0
10	16QAM	25	25	21.99	22.02	22.16	22.06	22.09	22.09	23	0
10	16QAM	50	0	22.08	22.00	21.92	22.01	22.08	22.08	23	0
10	64QAM	1	0	22.02	22.05	21.96	22.11	22.07	22.07	23	0
10	64QAM	1	25	22.11	22.05	21.96	22.10	22.07	22.07	23	0
10	64QAM	1	49	22.11	22.00	21.97	22.12	22.02	22.02	23	0
10	64QAM	26	0	21.97	21.84	21.96	22.08	22.07	22.07	23	0
10	64QAM	26	12	21.90	22.12	22.06	22.08	22.05	22.05	23	0
10	64QAM	25	25	21.98	21.98	22.15	21.96	22.03	22.03	23	0
10	256QAM	1	0	20.12	20.12	20.33	20.55	20.54	20.54	22	1
10	256QAM	1	25	20.10	20.04	20.30	20.40	20.45	20.45	22	1
10	256QAM	1	49	20.11	20.08	20.34	20.26	20.30	20.30	22	1
10	256QAM	26	0	20.33	20.20	20.35	20.46	20.54	20.54	22	1
10	256QAM	26	12	20.33	20.21	20.45	20.58	20.48	20.48	22	1
10	256QAM	25	25	20.28	20.04	20.44	20.44	20.68	20.68	22	1
10	256QAM	50	0	20.26	20.16	20.34	20.49	20.46	20.46	22	1
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.15	22.19	22.27	22.24	22.15	22.15	23.00	0
5	QPSK	1	12	22.11	22.24	22.19	22.03	22.21	22.21	23.00	0
5	QPSK	1	24	22.08	22.15	22.17	22.15	22.09	22.09	23	0
5	QPSK	12	0	22.08	22.17	22.12	21.98	22.00	22.00	23	0
5	QPSK	12	7	21.99	21.96	21.98	21.98	22.04	22.04	23	0
5	QPSK	1	0	22.11	22.04	22.04	21.97	22.05	22.05	23	0
5	16QAM	1	0	22.11	22.17	21.99	21.97	21.99	21.99	23	0
5	16QAM	1	12	22.13	22.03	22.02	22.04	21.99	21.99	23	0
5	16QAM	1	24	22.04	22.18	21.93	22.04	22.05	22.05	23	0
5	16QAM	12	0	22.10	21.96	21.98	22.14	22.01	22.01	23	0
5	16QAM	12	7	22.06	22.03	22.02	22.09	22.07	22.07	23	0
5	16QAM	26	0	22.01	22.04	22.00	22.00	22.13	22.13	23	0
5	16QAM	1	0	22.01	22.10	22.02	22.08	22.10	22.10	23	0
5	64QAM	1	12	22.13	22.09	21.98	21.96	22.08	22.08	23	0
5	64QAM	1	24	22.15	22.09	21.99	22.12	22.08	22.08	23	0
5	64QAM	12	0	22.01	21.93	21.99	22.11	22.08	22.08	23	0
5	64QAM	12	7	21.99	22.08	22.03	22.08	22.06	22.06	23	0
5	64QAM	12	13	22.06	22.00	21.98	22.07	22.05	22.05	23	0
5	64QAM	26	0	21.97	21.99	22.07	21.96	22.03	22.03	23	0
5	256QAM	1	0	20.09	20.12	20.41	20.57	20.52	20.52	22	1
5	25										





Reduced Power for DSI 3-Simultaneous

OSM100_Air 6 TX Channel	Best Average Power (dBm)			Turn-up Level (dBm)	Frame-Average Power (dBm)			Turn-up Level (dBm)
	800	1760	3510		1760	1760	3510	
Frequency (MHz)	15.12	15.12	15.12	17.00	15.12	15.12	15.12	24.00
OPRR 1 Tx (dBm)	32.32	31.92	32.38	33.00	23.13	22.92	23.38	24.00
OPRR 2 Tx (dBm)	30.33	29.99	30.38	31.00	24.31	24.05	24.38	25.00
OPRR 3 Tx (dBm)	24.43	24.31	24.99	25.00	24.17	24.25	24.33	25.14
EDGE 1 Tx (dBm)	20.01	20.04	20.75	21.00	23.81	23.84	23.75	23.00
EDGE 2 Tx (dBm)	24.01	24.22	24.79	25.00	19.02	18.81	18.98	18.00
EDGE 3 Tx (dBm)	24.01	24.22	24.79	25.00	18.99	18.72	18.79	18.00
EDGE 4 Tx (dBm)	21.00	21.00	21.00	24.00	18.99	18.93	18.93	20.14
EDGE 5 Tx (dBm)	21.00	21.01	21.00	23.00	18.60	18.61	18.60	20.00

OSM100_Air 5 TX Channel	Best Average Power (dBm)			Turn-up Level (dBm)	Frame-Average Power (dBm)			Turn-up Level (dBm)
	800	1760	3510		1760	1760	3510	
Frequency (MHz)	16.02	16.00	16.02	18.00	16.02	16.00	16.02	17.00
OPRR 1 Tx (dBm)	26.16	26.03	26.18	26.20	17.16	17.03	18.18	17.00
OPRR 2 Tx (dBm)	20.15	20.14	20.14	20.00	17.16	17.14	18.14	17.00
OPRR 3 Tx (dBm)	20.03	20.07	20.33	21.00	16.77	16.81	16.07	17.14
OPRR 4 Tx (dBm)	19.15	19.40	19.97	20.00	16.15	16.46	16.97	17.00
EDGE 1 Tx (dBm)	20.00	20.00	20.07	20.00	16.00	16.00	16.07	17.00
EDGE 2 Tx (dBm)	22.00	22.00	22.16	23.00	16.00	16.00	16.16	17.00
EDGE 3 Tx (dBm)	20.32	20.52	20.38	21.00	16.08	16.08	16.13	17.04
EDGE 4 Tx (dBm)	18.28	19.40	18.42	20.00	16.28	16.00	16.42	17.00

Base TX Channel	WOCMA 1_Air 6 Line			Turn-up Level (dBm)	WOCMA 1_Air 5 Line			Turn-up Level (dBm)	WOCMA 1_Air 5 Line			Turn-up Level (dBm)
	800	1760	3510		1760	1760	3510		4150	4800	4220	
Frequency (MHz)	16.02	16.00	16.02	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00	17.00
OPRR 1 (dBm)	17.01	17.03	16.91	18.00	16.80	17.13	17.17	18.00	23.04	23.13	23.01	24.00
OPRR 2 (dBm)	17.08	17.46	16.93	18.00	17.01	17.01	17.30	18.00	23.05	23.13	23.00	24.00
OPRR 3 (dBm)	16.10	16.38	16.01	17.00	16.04	16.27	16.30	17.00	21.98	22.41	21.95	23.00
OPRR 4 (dBm)	16.12	16.28	15.88	17.00	16.09	16.23	16.30	17.00	21.98	22.01	21.97	23.00
OPRR 5 (dBm)	15.95	15.91	15.91	16.00	15.95	15.98	15.78	16.00	21.95	21.96	21.48	22.00
OPRR 6 (dBm)	15.85	15.86	15.95	16.00	15.58	15.77	15.95	16.00	21.43	21.65	21.47	22.00
OPRR 7 (dBm)	16.30	16.30	16.10	17.00	16.00	16.03	16.29	17.00	21.96	21.98	21.96	23.00
OPRR 8 (dBm)	16.30	16.40	15.92	17.00	15.92	15.95	15.77	17.00	21.95	21.98	21.44	22.00
OPRR 9 (dBm)	16.78	15.94	15.93	16.00	15.51	15.74	15.84	16.00	21.30	21.55	21.44	22.00
OPRR 10 (dBm)	15.80	15.85	15.87	16.00	15.68	15.85	15.77	16.00	21.43	21.38	21.41	22.00
OPRR 11 (dBm)	16.00	16.44	16.03	17.00	15.98	16.19	16.37	17.00	21.95	22.04	21.92	23.00
OPRR 12 (dBm)	14.14	14.27	14.10	15.00	13.94	14.21	14.29	15.00	19.00	19.00	19.00	21.00
OPRR 13 (dBm)	14.13	14.25	14.07	15.00	14.05	14.20	14.33	15.00	20.95	21.00	20.83	22.00
OPRR 14 (dBm)	14.04	14.21	14.00	15.00	13.93	14.10	14.30	15.00	19.97	19.99	19.95	21.00
OPRR 15 (dBm)	14.10	14.37	14.10	15.00	13.88	14.21	14.30	15.00	21.95	22.02	21.92	23.00



Band 2\_Ant 0

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (W), Power Ch./Freq., Power Hb./Freq., Turn-on (min), MPR (dB), Channel, Frequency (MHz), and a grid of 10x10 cells for antenna combinations.

Band 2\_Ant 1

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (W), Power Ch./Freq., Power Hb./Freq., Turn-on (min), MPR (dB), Channel, Frequency (MHz), and a grid of 10x10 cells for antenna combinations.

Band 4\_Ant 0

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (W), Power Ch./Freq., Power Hb./Freq., Turn-on (min), MPR (dB), Channel, Frequency (MHz), and a grid of 10x10 cells for antenna combinations.

Band 4\_Ant 1

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (W), Power Ch./Freq., Power Hb./Freq., Turn-on (min), MPR (dB), Channel, Frequency (MHz), and a grid of 10x10 cells for antenna combinations.





Band 13\_Ant 0

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power High Ch./Freq., Turn-up limit (dB), MPR (dB). Includes sub-headers for Channel and Frequency (MHz) and rows for various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM.

Band 17\_Ant 0

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power High Ch./Freq., Turn-up limit (dB), MPR (dB). Includes sub-headers for Channel and Frequency (MHz) and rows for various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM.

Band 25\_Ant 0

Table with 10 columns: BW (MHz), Modulation, RB Size, RB Offset, Power Low Ch./Freq., Power High Ch./Freq., Turn-up limit (dB), MPR (dB). Includes sub-headers for Channel and Frequency (MHz) and rows for various modulation schemes like QPSK, 16QAM, 64QAM, and 256QAM.













Reduced Power for DSI 6-Standalone

OSM100_Ant 6	Best Average Power (dBm)			Turn-up Limit (dBm)	Frame-Average Power Limit (dBm)			Turn-up Limit (dBm)
	99.5	99.9	99.95		99.5	99.9	99.95	
TX Channel	15.2	15.4	15.6	21.00	15.2	15.4	15.6	24.00
Frequency (MHz)	32.25	31.21	32.25	33.00	32.25	32.23	32.25	24.00
OPRR 1 Tx stat	32.13	31.92	32.38	33.00	32.13	22.92	22.38	24.00
OPRR 2 Tx stat	30.33	29.26	30.38	31.00	30.33	21.05	20.38	25.00
OPRR 3 Tx stat	29.43	28.31	29.69	30.00	29.43	24.25	23.13	25.24
OPRR 4 Tx stat	28.81	28.64	28.75	29.00	28.81	23.84	22.75	25.50
EDGE 1 Tx stat	24.02	24.02	24.02	27.00	17.02	18.81	18.06	18.00
EDGE 2 Tx stat	24.01	24.22	24.79	26.00	18.91	18.72	18.79	20.00
EDGE 3 Tx stat	23.50	23.28	23.58	24.00	18.29	18.73	18.12	20.24
EDGE 4 Tx stat	23.00	21.81	21.48	23.00	18.60	18.81	18.06	20.00

OSM100_Ant 5	Best Average Power (dBm)			Turn-up Limit (dBm)	Frame-Average Power Limit (dBm)			Turn-up Limit (dBm)
	99.5	99.9	99.95		99.5	99.9	99.95	
TX Channel	15.2	15.4	15.6	21.00	15.2	15.4	15.6	24.00
Frequency (MHz)	30.22	30.06	30.22	30.00	30.22	30.06	30.22	21.00
OPRR 1 Tx stat	29.88	29.25	29.89	30.00	29.88	20.25	20.89	21.00
OPRR 2 Tx stat	29.08	28.42	29.20	27.00	29.08	20.25	20.25	21.00
OPRR 3 Tx stat	28.05	24.65	24.32	25.00	18.89	20.29	20.08	21.24
OPRR 4 Tx stat	23.21	22.25	23.28	24.00	20.21	19.25	20.28	21.00
EDGE 1 Tx stat	22.53	22.60	22.51	27.00	18.53	18.60	18.51	18.00
EDGE 2 Tx stat	20.53	18.21	18.11	20.00	18.53	18.24	18.11	20.00
EDGE 3 Tx stat	20.03	23.08	22.81	24.00	18.77	18.82	18.52	18.74
EDGE 4 Tx stat	21.05	21.46	21.09	23.00	18.36	18.46	18.09	20.00

BMS	WCCMA_V_Ant 0			Turn-up Limit (dBm)	WCCMA_V_Ant 0			Turn-up Limit (dBm)	WCCMA_V_Ant 0			Turn-up Limit (dBm)
	99.5	99.9	99.95		99.5	99.9	99.95		4130	4130	4223	
TX Channel	16.62	16.66	16.68	21.00	13.12	14.33	15.13	16.00	16.00	16.00	16.00	24.00
Frequency (MHz)	197.04	197.00	197.00	21.00	19.74	19.74	19.74	20.00	20.00	20.00	20.00	24.00
SOPF Run#0	19.13	21.43	21.11	22.00	20.11	20.33	20.30	21.00	20.64	20.11	20.01	24.00
SOPF Run#1	19.17	21.48	21.12	22.00	20.13	20.48	20.32	21.00	20.05	20.12	20.02	24.00
SOPF Run#2	20.72	20.45	20.20	21.00	19.00	19.41	19.44	20.00	21.56	22.01	21.92	23.00
SOPF Run#3	20.15	20.48	20.18	21.00	19.10	19.24	19.43	20.00	21.58	22.01	21.97	23.00
SOPF Run#4	19.80	19.81	19.87	20.00	18.60	18.87	18.92	19.00	21.26	21.56	21.48	22.00
SOPF Run#5	19.76	19.60	19.60	20.00	18.64	18.88	18.98	19.00	21.43	21.55	21.47	22.00
SOPF Run#6	20.42	20.32	20.31	21.00	19.09	19.27	19.29	20.00	21.09	21.50	21.50	23.00
SOPF Run#7	20.48	20.55	20.49	21.00	19.09	19.19	19.37	20.00	21.09	21.68	21.54	23.00
SOPF Run#8	19.89	20.03	19.94	20.00	18.80	18.88	18.77	19.00	21.30	21.55	21.44	22.00
SOPF Run#9	19.03	19.03	19.94	20.00	18.63	18.79	19.02	19.00	21.43	21.30	21.41	22.00
SOPF Run#10	20.15	20.47	20.15	21.00	19.42	19.36	19.49	20.00	21.50	22.04	21.92	23.00
SOPF Run#11	19.13	18.44	18.14	19.00	17.09	17.31	17.46	18.00	19.00	20.00	19.00	21.00
SOPF Run#12	19.15	18.38	18.08	20.00	18.11	18.36	18.53	19.00	20.50	21.00	20.81	22.00
SOPF Run#13	18.59	18.28	18.16	19.00	17.00	17.28	17.51	18.00	18.91	19.00	19.00	21.00
SOPF Run#14	20.22	20.63	20.19	21.00	19.00	19.32	19.44	20.00	21.50	22.00	21.50	23.00



















Reduced Power for DSI 6-Simultaneous

OSM100_Ant 6 TX Channel	Best Average Power (dBm)			Turn-up Level (dBm)	Frame-Average Power Level			Turn-up Level
	800	810	815		810	815	815	
Frequency (MHz)	32.25	31.74	32.55	33.00	32.25	32.23	32.39	34.00
OPRS 1 Tx Rate	32.13	31.92	32.38	33.00	32.13	22.92	22.38	24.00
OPRS 2 Tx Rate	30.33	29.95	30.38	31.00	30.33	21.95	21.38	23.00
OPRS 3 Tx Rate	29.43	29.31	29.99	30.00	29.43	24.25	24.13	25.24
OPRS 4 Tx Rate	28.81	28.64	29.75	29.00	28.81	23.84	23.75	25.00
EDGE 1 Tx Rate	24.00	24.00	24.00	27.00	17.00	18.00	18.00	19.00
EDGE 2 Tx Rate	24.01	24.22	24.79	26.00	18.01	18.72	18.79	20.00
EDGE 3 Tx Rate	23.99	23.99	23.99	24.00	18.99	19.19	19.19	20.34
EDGE 4 Tx Rate	23.89	23.81	23.88	23.00	18.69	18.81	18.88	20.00

OSM100_Ant 5 TX Channel	Best Average Power (dBm)			Turn-up Level (dBm)	Frame-Average Power Level			Turn-up Level
	800	810	815		810	815	815	
Frequency (MHz)	30.92	30.96	30.93	30.00	30.92	30.96	30.93	31.00
OPRS 1 Tx Rate	29.88	29.25	29.89	30.00	29.88	29.25	29.89	31.00
OPRS 2 Tx Rate	29.08	28.42	29.24	30.00	29.08	28.42	29.24	31.00
OPRS 3 Tx Rate	28.95	28.65	29.35	29.00	28.95	29.09	29.08	31.24
OPRS 4 Tx Rate	28.21	27.95	29.38	28.00	28.21	19.95	20.38	21.00
EDGE 1 Tx Rate	22.53	22.60	22.51	27.00	18.53	18.60	18.51	18.00
EDGE 2 Tx Rate	22.53	24.21	24.11	26.00	18.53	18.24	18.11	18.00
EDGE 3 Tx Rate	22.03	23.08	22.81	24.00	18.27	18.42	18.52	18.74
EDGE 4 Tx Rate	21.95	21.46	21.09	23.00	18.36	18.46	18.09	20.00

Bios TX Channel	WCCMA_V_Ant 0			Turn-up Level (dBm)	WCCMA_V_Ant 0			Turn-up Level	WCCMA_V_Ant 0			Turn-up Level (dBm)
	800	810	815		810	815	815		810	815	815	
Frequency (MHz)	197.04	199.00	197.00	197.00	197.04	197.00	197.00	197.00	197.04	197.00	197.00	197.00
SOPF Rate 0	21.13	21.43	21.11	22.00	20.11	20.33	20.30	21.00	20.64	20.11	20.01	24.00
SOPF Rate 1	21.17	21.48	21.12	22.00	20.13	20.48	20.32	21.00	20.05	20.12	20.02	24.00
SOPF Rate 2	20.72	20.45	20.20	21.00	19.00	19.41	19.44	20.00	21.96	22.01	21.95	23.00
SOPF Rate 3	20.15	20.48	20.18	21.00	19.10	19.24	19.43	20.00	21.58	22.01	21.97	23.00
SOPF Rate 4	19.80	19.91	19.87	20.00	18.60	18.87	18.90	19.00	21.30	21.94	21.48	22.00
SOPF Rate 5	19.76	19.90	19.60	20.00	18.64	18.88	18.98	19.00	21.43	21.55	21.47	22.00
SOPF Rate 6	20.43	20.92	20.31	21.00	19.09	19.27	19.29	20.00	21.09	21.99	21.98	23.00
SOPF Rate 7	20.48	20.55	20.49	21.00	19.09	19.19	19.37	20.00	21.98	21.68	21.94	23.00
SOPF Rate 8	19.89	20.03	19.94	20.00	18.80	18.88	18.77	19.00	21.30	21.55	21.44	22.00
SOPF Rate 9	19.93	19.93	19.94	20.00	18.83	18.79	18.92	19.00	21.43	21.39	21.41	22.00
SOPF Rate 10	20.15	20.47	20.15	21.00	19.12	19.39	19.49	20.00	21.95	22.04	21.92	23.00
SOPF Rate 11	19.13	18.44	18.14	19.00	17.99	17.31	17.46	18.00	19.00	20.00	19.00	21.00
SOPF Rate 12	19.15	18.38	18.08	20.00	18.11	18.36	18.53	19.00	20.95	21.00	20.81	22.00
SOPF Rate 13	18.99	18.39	18.19	19.00	17.90	17.39	17.51	18.00	18.91	19.00	18.90	21.00
SOPF Rate 14	20.22	20.60	20.19	21.00	19.00	19.30	19.44	20.00	21.92	22.00	21.90	23.00



### Band 2\_Ant 0

RV (MHz)	Modulation	RB Size	RB Offset	Power Ch. / Freq.	Power HL / Freq.	Power TL / Freq.	Time-use (min)	MPR (dB)
Channel								
Frequency (MHz)								
20	QPSK	1	0	21.20	21.60	21.94		
20	QPSK	1	48	21.20	21.60	21.94	22.6	0
20	QPSK	1	96	21.20	21.60	21.94		
20	QPSK	50	0	21.59	21.60	21.19		
20	QPSK	50	48	21.59	21.60	21.19	22.6	0
20	QPSK	50	96	21.59	21.60	21.19		
20	QPSK	100	0	21.11	21.32	21.16		
20	QPSK	100	48	21.11	21.32	21.16	22.6	0
20	QPSK	100	96	21.11	21.32	21.16		
20	16QAM	1	48	20.93	21.23	20.90	22.6	0
20	16QAM	1	96	21.06	21.35	21.03		
20	16QAM	50	24	20.74	20.81	20.78		
20	16QAM	50	72	20.88	20.82	20.82		
20	16QAM	50	96	20.77	20.80	20.78		
20	16QAM	1	0	20.75	20.99	20.82		
20	16QAM	1	48	20.58	21.02	20.81	22	0.6
20	16QAM	1	96	20.72	20.71	20.84		
20	16QAM	50	24	19.59	19.94	19.70		
20	16QAM	50	72	19.68	19.39	19.52	21	1.6
20	16QAM	50	96	19.74	19.70	19.68		
20	256QAM	1	48	17.65	17.98	17.89	19	3.6
20	256QAM	1	96	17.92	17.89	17.78		
20	256QAM	1	192	17.79	17.85	17.87		
20	256QAM	50	24	17.79	17.80	17.84		
20	256QAM	50	72	17.85	17.85	17.67		
20	256QAM	50	96	17.88	17.89	17.84		
20	256QAM	100	0	18.95	18.90	18.75		
Channel								
Frequency (MHz)								
15	QPSK	1	0	21.13	21.49	21.26		
15	QPSK	1	48	21.09	21.36	21.06	22.6	0
15	QPSK	1	96	21.04	21.49	20.99		
15	QPSK	36	0	20.94	21.37	21.07		
15	QPSK	36	48	21.03	21.41	21.01	22.6	0
15	QPSK	36	96	20.95	21.30	21.07		
15	QPSK	72	0	21.05	21.27	21.07		
15	QPSK	72	48	21.05	21.27	21.01	22.6	0
15	QPSK	72	96	21.05	21.27	21.01		
15	16QAM	1	37	20.92	21.10	20.84		
15	16QAM	1	74	20.98	20.93	20.92	22	0.6
15	16QAM	36	20	20.53	20.74	20.73		
15	16QAM	36	70	20.84	20.66	20.71		
15	16QAM	36	112	20.83	20.67	20.72		
15	16QAM	72	0	20.96	20.77	20.70	22	0.6
15	16QAM	72	37	20.83	20.87	20.72		
15	16QAM	72	74	20.72	20.70	20.50		
15	16QAM	36	0	19.86	19.75	19.75		
15	16QAM	36	48	19.85	19.70	19.42	21	1.6
15	16QAM	36	96	19.85	19.70	19.42		
15	16QAM	72	0	18.63	18.71	18.52		
15	16QAM	72	37	17.85	17.88	17.88		
15	256QAM	1	37	17.81	17.88	17.58	19	3.6
15	256QAM	1	74	17.87	17.74	17.67		
15	256QAM	36	20	17.76	17.81	17.82		
15	256QAM	36	70	17.76	17.81	17.72		
15	256QAM	36	112	17.86	17.86	17.74	19	3.6
15	256QAM	72	0	17.85	17.87	17.74		
Channel								
Frequency (MHz)								
10	QPSK	1	0	21.09	21.36	21.06		
10	QPSK	1	48	21.05	21.34	21.04	22.6	0
10	QPSK	1	96	21.06	21.34	21.04		
10	QPSK	36	0	20.95	21.21	20.98		
10	QPSK	36	48	20.95	21.21	20.98	22.6	0
10	QPSK	36	96	20.95	21.21	20.98		
10	QPSK	72	0	21.07	21.29	21.07		
10	QPSK	72	48	21.07	21.29	21.01	22.6	0
10	QPSK	72	96	21.07	21.29	21.01		
10	16QAM	1	37	20.95	21.17	21.07		
10	16QAM	1	74	20.81	21.07	20.79	22.6	0
10	16QAM	36	20	20.53	20.74	20.65		
10	16QAM	36	70	20.87	20.75	20.64		
10	16QAM	36	112	20.82	20.74	20.44	22	0.6
10	16QAM	72	0	20.95	20.83	20.67		
10	16QAM	72	37	20.70	20.88	20.73		
10	16QAM	72	74	20.84	20.68	20.58	22	0.6
10	16QAM	36	0	20.68	20.68	20.51		
10	16QAM	36	48	19.53	19.75	19.51		
10	16QAM	36	96	19.53	19.75	19.51		
10	16QAM	72	0	18.64	18.61	18.43	21	1.6
10	16QAM	72	37	17.65	17.68	17.63		
10	256QAM	1	37	17.61	17.68	17.58	19	3.6
10	256QAM	1	74	17.67	17.54	17.51		
10	256QAM	36	20	17.76	17.81	17.82		
10	256QAM	36	70	17.76	17.81	17.72		
10	256QAM	36	112	17.86	17.86	17.74	19	3.6
10	256QAM	72	0	17.85	17.87	17.74		
Channel								
Frequency (MHz)								
5	QPSK	1	0	21.01	21.34	21.01		
5	QPSK	1	48	20.95	21.21	20.98	22.6	0
5	QPSK	1	96	21.04	21.34	21.04		
5	QPSK	36	0	20.94	21.21	20.98		
5	QPSK	36	48	20.94	21.21	20.98	22.6	0
5	QPSK	36	96	20.94	21.21	20.98		
5	QPSK	72	0	21.07	21.29	21.07		
5	QPSK	72	48	21.07	21.29	21.01	22.6	0
5	QPSK	72	96	21.07	21.29	21.01		
5	16QAM	1	37	20.95	21.17	21.07		
5	16QAM	1	74	20.81	21.07	20.79	22.6	0
5	16QAM	36	20	20.53	20.74	20.65		
5	16QAM	36	70	20.87	20.75	20.64		
5	16QAM	36	112	20.82	20.74	20.44	22	0.6
5	16QAM	72	0	20.95	20.83	20.67		
5	16QAM	72	37	20.70	20.88	20.73		
5	16QAM	72	74	20.84	20.68	20.58	22	0.6
5	16QAM	36	0	20.68	20.68	20.51		
5	16QAM	36	48	19.53	19.75	19.51		
5	16QAM	36	96	19.53	19.75	19.51		
5	16QAM	72	0	18.64	18.61	18.43	21	1.6
5	16QAM	72	37	17.65	17.68	17.63		
5	256QAM	1	37	17.61	17.68	17.58	19	3.6
5	256QAM	1	74	17.67	17.54	17.51		
5	256QAM	36	20	17.76	17.81	17.82		
5	256QAM	36	70	17.76	17.81	17.72		
5	256QAM	36	112	17.86	17.86	17.74	19	3.6
5	256QAM	72	0	17.85	17.87	17.74		
Channel								
Frequency (MHz)								
1	QPSK	1	0	21.14	21.49	21.10		
1	QPSK	1	48	21.08	21.31	21.10	22.6	0
1	QPSK	1	96	21.01	21.49	21.01		
1	QPSK	36	0	20.94	21.34	21.04		
1	QPSK	36	48	20.94	21.34	21.04	22.6	0
1	QPSK	36	96	20.94	21.34	21.04		
1	QPSK	72	0	21.07	21.29	21.07		
1	QPSK	72	48	21.07	21.29	21.01	22.6	0
1	QPSK	72	96	21.07	21.29	21.01		
1	16QAM	1	37	20.95	21.17	21.07		
1	16QAM	1	74	20.81	21.07	20.79	22.6	0
1	16QAM	36	20	20.53	20.74	20.65		
1	16QAM	36	70	20.87	20.75	20.64		
1	16QAM	36	112	20.82	20.74	20.44	22	0.6
1	16QAM	72	0	20.95	20.83	20.67		
1	16QAM	72	37	20.70	20.88	20.73		
1	16QAM	72	74	20.84	20.68	20.58	22	0.6
1	16QAM	36	0	20.68	20.68	20.51		
1	16QAM	36	48	19.53	19.75	19.51		
1	16QAM	36	96	19.53	19.75	19.51		
1	16QAM	72	0	18.64	18.61	18.43	21	1.6
1	16QAM	72	37	17.65	17.68	17.63		
1	256QAM	1	37	17.61	17.68	17.58	19	3.6
1	256QAM	1	74	17.67	17.54	17.51		
1	256QAM	36	20	17.76	17.81	17.82		
1	256QAM	36	70	17.76	17.81	17.72		
1	256QAM	36	112	17.86	17.86	17.74	19	3.6
1	256QAM	72	0	17.85	17.87	17.74		
Channel								
Frequency (MHz)								
1.4	QPSK	1	0	21.11	21.49	21.10		
1.4	QPSK							



Band 5_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hpt./Ch./F.Freq.	Power Freq./Ch./F.Freq.	Turn-up (dB)	MPE (dB)		
Channel				700	848.5	844				
10	QPSK	1	0	22.48	22.62	22.53				
10	QPSK	1	25	22.44	22.58	22.48				
10	QPSK	1	49	22.40	22.31	22.43			24	0
10	QPSK	25	0	21.46	21.63	21.62				
10	QPSK	25	12	21.46	21.63	21.62				
10	QPSK	25	25	21.49	21.64	21.48			23	1
10	QPSK	50	0	21.47	21.60	21.52				
10	QPSK	50	12	21.51	21.71	21.65				
10	16QAM	1	25	22.11	21.77	21.64			23	1
10	16QAM	5	49	21.83	21.56	21.68				
10	16QAM	5	73	21.86	21.59	21.48				
10	16QAM	25	12	20.51	20.51	20.55			22	2
10	16QAM	25	25	20.49	20.49	20.63				
10	16QAM	50	0	20.52	20.53	20.57				
10	16QAM	50	12	20.59	20.59	20.64				
10	64QAM	1	25	20.57	20.36	20.52			22	2
10	64QAM	1	49	20.57	20.36	20.52				
10	64QAM	25	0	19.32	19.49	19.40				
10	64QAM	25	12	19.30	19.56	19.37				
10	64QAM	25	25	19.45	19.50	19.40			21	3
10	64QAM	50	0	19.37	19.50	19.34				
10	256QAM	1	25	17.86	18.00	17.94			19	5
10	256QAM	1	49	17.87	17.96	17.94				
10	256QAM	1	73	17.76	17.84	17.82				
10	256QAM	25	12	17.90	17.89	18.01			19	5
10	256QAM	25	25	17.88	17.82	17.91				
10	256QAM	50	0	17.92	17.91	17.92				
Channel				2652	2652	2652	Turn-up (dB)	MPE (dB)		
Frequency (MHz)				826.5	836.5	842.5				
5	QPSK	1	0	22.41	22.33	22.37				
5	QPSK	1	24	22.20	22.40	22.29			24	0
5	QPSK	1	48	22.29	22.34	22.45				
5	QPSK	12	0	21.51	21.41	21.48				
5	QPSK	12	12	21.36	21.49	21.45			23	1
5	QPSK	12	18	21.36	21.51	21.58				
5	16QAM	1	25	21.43	21.46	21.49				
5	16QAM	1	49	21.39	21.61	21.61				
5	16QAM	1	73	21.70	22.00	21.89			23	1
5	16QAM	12	0	20.56	20.56	20.56				
5	16QAM	12	12	20.48	20.58	20.47				
5	16QAM	12	18	20.58	20.54	20.48			22	2
5	16QAM	25	0	20.52	20.52	20.52				
5	16QAM	25	12	20.59	20.42	20.43				
5	64QAM	1	0	21.25	21.42	21.60			22	2
5	64QAM	1	24	21.09	21.49	21.49				
5	64QAM	1	48	21.07	21.51	21.55				
5	64QAM	12	0	20.27	20.22	20.38				
5	64QAM	12	12	20.20	20.20	20.38			21	3
5	64QAM	12	18	20.35	20.40	20.52				
5	64QAM	25	0	20.26	20.38	20.42				
5	256QAM	1	25	17.75	17.89	17.81			19	5
5	256QAM	1	49	17.80	17.87	17.81				
5	256QAM	1	73	17.82	17.89	17.84				
5	256QAM	12	12	17.78	17.79	17.94			19	5
5	256QAM	12	18	17.83	17.79	17.81				
5	256QAM	25	0	17.82	17.83	17.78				
Channel				3641.5	3652.5	3656.5	Turn-up (dB)	MPE (dB)		
Frequency (MHz)				826.5	836.5	842.5				
3	QPSK	1	0	22.25	22.24	22.31				
3	QPSK	1	14	22.28	22.47	22.24			24	0
3	QPSK	1	28	22.28	22.33	22.44				
3	QPSK	3	0	21.30	21.49	21.43				
3	QPSK	3	7	21.38	21.43	21.31			23	1
3	16QAM	1	0	21.86	21.60	21.62				
3	16QAM	1	8	21.87	21.44	21.34			23	1
3	16QAM	1	16	21.86	21.49	21.44				
3	16QAM	3	0	20.47	20.41	20.51				
3	16QAM	3	4	20.48	20.65	20.54			22	2
3	16QAM	3	8	20.46	20.57	20.36				
3	16QAM	15	0	20.30	20.48	20.43				
3	64QAM	1	0	20.96	20.72	20.79			22	2
3	64QAM	1	4	20.76	20.80	20.78				
3	64QAM	1	8	20.78	20.81	20.86				
3	64QAM	3	0	19.87	19.61	19.43				
3	64QAM	3	4	19.83	19.72	19.67			21	3
3	64QAM	3	8	19.45	19.48	19.38				
3	64QAM	15	0	19.23	19.43	19.39				
3	256QAM	1	0	17.75	17.83	17.78			19	5
3	256QAM	1	14	17.81	17.83	17.84				
3	256QAM	1	28	17.80	17.79	17.84				
3	256QAM	3	0	17.84	17.77	17.86			19	5
3	256QAM	3	7	17.83	17.86	17.76				
3	256QAM	15	0	17.82	17.85	17.67				
Channel				3647	3652.5	3656.5	Turn-up (dB)	MPE (dB)		
Frequency (MHz)				824.7	834.5	840.3				
1.4	QPSK	1	0	22.28	22.31	22.30				
1.4	QPSK	1	7	22.28	22.34	22.43				
1.4	QPSK	1	14	22.27	22.32	22.15			24	0
1.4	QPSK	3	0	22.34	22.33	22.42				
1.4	QPSK	3	7	22.38	22.49	22.42				
1.4	QPSK	3	14	22.27	22.34	22.35			23	1
1.4	16QAM	1	7	21.52	21.67	21.76				
1.4	16QAM	1	14	21.46	21.74	21.91			23	1
1.4	16QAM	1	21	21.51	21.63	21.70				
1.4	16QAM	3	0	21.68	21.49	21.33			23	1
1.4	16QAM	3	7	21.54	21.68	21.48				
1.4	16QAM	3	14	21.29	21.47	21.49				
1.4	16QAM	6	0	20.47	20.39	20.80			22	2
1.4	16QAM	6	7	20.42	20.30	21.07				
1.4	16QAM	6	14	20.50	20.50	20.50				
1.4	64QAM	1	0	20.85	20.50	20.71			22	2
1.4	64QAM	1	7	20.53	20.24	20.69				
1.4	64QAM	1	14	20.27	20.22	20.63				
1.4	64QAM	3	0	20.13	20.27	20.52			21	3
1.4	64QAM	3	7	19.44	19.35	19.47				
1.4	256QAM	1	0	17.70	17.85	17.78			19	5
1.4	256QAM	1	7	17.76	17.80	17.80				
1.4	256QAM	1	14	17.86	17.79	17.80				
1.4	256QAM	3	0	17.84	17.73	17.86			19	5
1.4	256QAM	3	7	17.79	17.76	17.80				
1.4	256QAM	6	0	17.85	17.86	17.71			19	5

Band 7_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hpt./Ch./F.Freq.	Power Freq./Ch./F.Freq.	Turn-up (dB)	MPE (dB)		
Channel				710	753.5	750				
20	QPSK	1	0	20.81	20.95	20.92			21.0	0
20	QPSK	1	4	20.78	20.92	20.87				
20	QPSK	1	8	20.79	20.87	20.85				
20	QPSK	50	0	20.66	20.79	20.67			21.0	0
20	QPSK	50	4	20.58	20.73	20.63				
20	QPSK	50	8	20.55	20.75	20.61				
20	QPSK	100	0	20.56	20.78	20.61				
20	16QAM	1	0	20.71	20.84	20.86				
20	16QAM	1	4	20.77	20.50	20.54			21.0	0
20	16QAM	1	8	20.66	20.86	20.85				
20	16QAM	50	0	20.71	20.72	20.77				
20	16QAM	50	4	20.75	20.53	20.78			21.0	0
20	16QAM	50	8	20.74	20.84	20.87				
20	16QAM	100	0	20.75	20.69	20.79				
20	64QAM	1	0	20.71	20.83	20.85				
20	64QAM	1	4	20.68	20.71	20.71			21.0	0
20	64QAM	1	8	20.72	20.79	20.75				
20	64QAM	50	0	20.32	20.29	20.32				
20	64QAM	50	4	20.37	20.31	20.42			21.0	0
20	64QAM	50	8	20.57	20.40	20.45				
20	64QAM	100	0	20.30	20.43	20.36				
20	256QAM	1	0	18.00	18.01	18.05			19	2.9
20	256QAM	1	4	18.10	18.01	18.25				
20	256QAM	1	8	18.10	18.05	18.27				
20	256QAM	1	12	18.08	18.07	18.15				
20	256QAM	25	0	18.12	18.10	18.20			19	2.9
20	256QAM	25	12	18.15	18.11	18.24				
20	256QAM	50	0	18.02	18.10	18.15				
Channel				2507.5	2510	2510	Turn-up (dB)	MPE (dB)		
Frequency (MHz)				2507.5	2530	2525.5				
15	QPSK	1	0	20.71	20.87	20.89			21.0	0
15	QPSK	1	37	20.77	20.87	20.89				
15	QPSK	1	74	20.78	20.86	20.89				
15	QPSK	36	0	20.61	20.73	20.61			21.0	0
15	QPSK	36	36	20.59	20.64	20.67				
15	QPSK	36	72	20.56	20.62	20.65				
15	16QAM	1	0	20.83	20.98	20.98				
15	16QAM	1	37	20.84	20.73	20.81</				



Band 13_Ant 0									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.64	22.63	22.65			
10	QPSK	1	24	22.64	22.63	22.65			
10	QPSK	1	48	22.64	22.63	22.65			
10	QPSK	25	0	21.68	21.72	21.70			
10	QPSK	25	12	21.72	21.68	21.70			
10	QPSK	25	25	21.68	21.65	21.67			
10	QPSK	50	0	21.75	21.78	21.77			
10	16QAM	1	0	22.00	21.93	21.94			
10	16QAM	1	24	22.10	21.80	21.78			
10	16QAM	1	48	21.72	21.96	22.20			
10	16QAM	25	0	20.85	20.89	20.83			
10	16QAM	25	12	20.85	20.87	20.87			
10	16QAM	25	25	20.84	20.91	20.85			
10	16QAM	50	0	20.89	20.82	20.86			
10	16QAM	1	0	20.82	20.85	20.86			
10	16QAM	1	24	20.80	20.83	20.86			
10	16QAM	1	48	20.80	20.83	21.06			
10	16QAM	25	0	19.73	19.71	19.80			
10	16QAM	25	12	19.72	19.81	19.72			
10	16QAM	25	25	19.54	19.82	19.81			
10	16QAM	50	0	19.67	19.79	19.66			
10	16QAM	1	0	19.64	19.66	19.64			
10	16QAM	1	24	19.05	19.09	18.12			
10	16QAM	1	48	18.07	18.05	18.09			
10	16QAM	25	0	18.03	18.03	18.03			
10	16QAM	25	12	18.08	18.02	18.03			
10	16QAM	25	25	18.01	18.08	18.03			
10	16QAM	50	0	18.05	18.02	18.01			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.64	22.63	22.65			
5	QPSK	1	24	22.63	22.68	22.60			
5	QPSK	1	48	22.63	22.68	22.60			
5	QPSK	12	0	21.64	21.59	21.63			
5	QPSK	12	7	21.72	21.64	21.65			
5	QPSK	12	13	21.63	21.52	21.60			
5	QPSK	25	0	21.66	21.59	21.61			
5	16QAM	1	0	22.00	21.91	21.88			
5	16QAM	1	12	21.90	21.83	22.13			
5	16QAM	1	24	21.08	21.79	22.30			
5	16QAM	12	0	20.54	20.54	20.60			
5	16QAM	12	7	20.70	20.41	20.59			
5	16QAM	12	13	19.86	19.73	19.87			
5	16QAM	25	0	20.73	20.62	20.48			
5	16QAM	1	0	20.86	20.81	20.50			
5	16QAM	1	12	20.85	20.59	20.84			
5	16QAM	1	24	21.27	20.95	20.91			
5	16QAM	12	0	19.72	19.71	19.74			
5	16QAM	12	7	19.86	19.73	19.87			
5	16QAM	12	13	19.80	19.75	19.83			
5	16QAM	25	0	19.46	19.65	19.55			
5	16QAM	1	0	17.90	17.90	17.90			
5	16QAM	1	12	17.97	17.94	17.91			
5	16QAM	1	24	18.04	17.98	18.02			
5	16QAM	12	0	17.80	17.84	17.86			
5	16QAM	12	7	17.85	17.84	17.80			
5	16QAM	12	13	17.89	17.82	17.82			
5	16QAM	25	0	17.85	17.84	17.77			

Band 17_Ant 0									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.71	22.77	22.74			
10	QPSK	1	24	22.66	22.76	22.73			
10	QPSK	1	48	22.85	22.88	22.84			
10	QPSK	25	0	21.68	21.72	21.70			
10	QPSK	25	12	21.67	21.69	21.70			
10	QPSK	25	25	21.84	21.65	21.67			
10	QPSK	50	0	21.75	21.78	21.77			
10	16QAM	1	0	22.00	21.93	21.94			
10	16QAM	1	24	21.80	21.78	22.25			
10	16QAM	1	48	21.72	21.96	22.20			
10	16QAM	25	0	20.85	20.89	20.83			
10	16QAM	25	12	20.85	20.87	20.87			
10	16QAM	25	25	20.84	20.91	20.85			
10	16QAM	50	0	20.89	20.82	20.86			
10	16QAM	1	0	20.82	20.85	20.86			
10	16QAM	1	24	20.80	20.83	20.86			
10	16QAM	1	48	20.80	20.83	21.06			
10	16QAM	25	0	19.73	19.71	19.80			
10	16QAM	25	12	19.72	19.81	19.72			
10	16QAM	25	25	19.54	19.82	19.81			
10	16QAM	50	0	19.67	19.79	19.66			
10	16QAM	1	0	19.64	19.66	19.64			
10	16QAM	1	24	19.05	19.09	18.12			
10	16QAM	1	48	18.07	18.05	18.09			
10	16QAM	25	0	18.03	18.03	18.03			
10	16QAM	25	12	18.08	18.02	18.03			
10	16QAM	25	25	18.01	18.08	18.03			
10	16QAM	50	0	18.05	18.02	18.01			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.72	22.70	22.74			
5	QPSK	1	12	22.81	22.69	22.71			
5	QPSK	1	24	22.84	22.66	22.67			
5	QPSK	12	0	21.75	21.70	21.70			
5	QPSK	12	7	21.80	21.76	21.80			
5	QPSK	12	13	21.75	21.76	21.78			
5	QPSK	25	0	21.78	21.79	21.76			
5	16QAM	1	0	22.08	22.10	22.11			
5	16QAM	1	12	22.10	22.21	22.13			
5	16QAM	1	24	22.01	22.11	22.09			
5	16QAM	12	0	20.83	20.81	20.84			
5	16QAM	12	7	20.83	20.77	20.85			
5	16QAM	12	13	20.72	20.69	20.78			
5	16QAM	25	0	20.80	20.75	20.75			
5	16QAM	1	0	20.88	20.83	20.55			
5	16QAM	1	12	20.85	20.84	20.84			
5	16QAM	1	24	20.81	20.92	20.93			
5	16QAM	12	0	19.77	19.83	19.84			
5	16QAM	12	7	19.85	19.79	19.83			
5	16QAM	12	13	19.75	19.81	19.80			
5	16QAM	25	0	19.78	19.81	19.82			
5	16QAM	1	0	17.88	17.88	17.88			
5	16QAM	1	12	17.89	17.83	18.02			
5	16QAM	1	24	17.93	17.99	17.93			
5	16QAM	12	0	17.82	17.82	17.82			
5	16QAM	12	7	17.85	17.84	17.80			
5	16QAM	12	13	17.87	17.85	17.87			
5	16QAM	25	0	17.87	17.88	17.85			

Band 25_Ant 0									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power Mid Ch./Freq.	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)									
30	QPSK	1	0	21.44	21.64	21.47			
30	QPSK	1	48	21.30	21.63	21.42			
30	QPSK	1	96	21.38	21.54	21.33			
30	QPSK	50	0	21.22	21.39	21.28			
30	QPSK	50	24	21.30	21.40	21.21			
30	QPSK	50	50	21.17	21.35	21.35			
30	QPSK	100	0	21.15	21.31	21.18			
30	16QAM	1	0	21.30	21.56	21.42			
30	16QAM	1	48	21.38	21.55	21.31			
30	16QAM	1	96	21.20	21.47	21.28			
30	16QAM	50	0	20.93	21.04	20.96			
30	16QAM	50	24	20.92	21.10	20.93			
30	16QAM	50	50	20.86	21.04	20.83			
30	16QAM	100	0	20.92	21.04	20.96			
30	16QAM	1	0	21.04	21.17	21.03			
30	16QAM	1	48	21.04	21.21	20.94			
30	16QAM	1	96	20.84	21.04	20.83			
30	16QAM	50	0	19.96	20.06	19.91			
30	16QAM	50	24	19.94	20.16	19.94			
30	16QAM	50	50	19.50	20.05	19.75			
30	16QAM	100	0	19.94	19.98	19.99			
30									



Band 26_Ant 0													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up (sec)	MPE (dB)					
Channel										15307	15322	15357	
Frequency (MHz)										811.5	811.5	811.5	
15	QPSK	1	0	22.56	22.56	22.53							
15	QPSK	1	40	22.56	22.56	22.53							
15	QPSK	1	74	22.53	22.53	22.49			24	0			
15	QPSK	36	0	21.80	21.81	21.79							
15	QPSK	36	20	21.80	21.80	21.77							
15	QPSK	36	39	21.57	21.78	21.86			23	1			
15	QPSK	75	0	21.71	21.76	21.87							
15	QPSK	75	0	21.76	22.22	22.10							
15	16QAM	1	37	22.14	22.21	21.83			23	1			
15	16QAM	1	74	21.90	21.82	22.09							
15	16QAM	1	40	21.90	21.90	21.85							
15	16QAM	36	20	20.74	20.91	20.88			22	2			
15	16QAM	36	39	20.74	20.91	20.84							
15	16QAM	75	0	20.77	20.84	20.82							
15	64QAM	1	0	20.99	21.06	20.94							
15	64QAM	1	37	20.94	20.96	20.81			22	2			
15	64QAM	1	74	20.94	20.96	20.81							
15	64QAM	36	0	10.72	10.77	10.77							
15	64QAM	36	20	10.76	10.80	10.75			21	3			
15	64QAM	36	39	10.83	10.84	10.80							
15	64QAM	75	0	10.87	10.86	10.82							
15	256QAM	1	37	17.75	17.83	17.81			19	5			
15	256QAM	1	74	17.84	17.82	17.90							
15	256QAM	1	40	17.84	17.81	17.84							
15	256QAM	36	20	17.89	17.72	17.72			19	5			
15	256QAM	36	39	17.73	17.78	17.77							
15	256QAM	75	0	17.73	17.80	17.80							

Band 66_Ant 0													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up (sec)	MPE (dB)					
Channel										13307	13322	13357	
Frequency (MHz)										1710	1716	1710	
20	QPSK	1	0	20.53	20.55	20.45			21.5	0			
20	QPSK	1	40	20.53	20.55	20.45							
20	QPSK	1	74	20.48	20.48	20.16							
20	QPSK	50	0	20.35	20.36	20.20			21.5	0			
20	QPSK	50	24	20.34	20.34	20.18							
20	QPSK	50	50	20.30	20.24	20.13							
20	QPSK	100	0	20.30	20.31	20.19			21.5	0			
20	16QAM	1	37	20.14	20.41	20.29							
20	16QAM	1	49	20.30	20.43	20.09							
20	16QAM	1	97	20.32	20.22	20.09							
20	16QAM	50	0	20.36	20.38	20.26			21.5	0			
20	16QAM	50	24	20.35	20.35	20.18							
20	16QAM	50	50	20.31	20.28	20.10							
20	16QAM	100	0	20.32	20.32	20.26							
20	64QAM	1	0	20.47	20.49	20.42			21.5	0			
20	64QAM	1	49	20.36	20.51	20.40							
20	64QAM	1	97	20.41	20.35	20.33							
20	64QAM	50	0	19.80	19.85	19.84			21.5	0			
20	64QAM	50	24	19.75	19.76	19.64							
20	64QAM	50	50	19.76	19.71	19.60							
20	64QAM	100	0	19.75	19.74	19.63			21.5	0			
20	256QAM	1	49	17.86	17.86	17.83			19	2.5			
20	256QAM	1	97	17.85	17.84	17.78							
20	256QAM	1	50	18.06	18.03	17.93							
20	256QAM	50	24	18.03	18.04	17.80			19	2.5			
20	256QAM	50	50	17.97	17.88	17.80							
20	256QAM	100	0	17.98	17.99	17.80							

Band 66_Ant 1													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up (sec)	MPE (dB)					
Channel										13307	13322	13357	
Frequency (MHz)										1710	1716	1710	
20	QPSK	1	0	22.96	23.20	23.04			24	0			
20	QPSK	1	40	22.96	23.20	23.04							
20	QPSK	1	74	22.98	23.08	23.00							
20	QPSK	50	0	22.09	22.28	22.25			23	1			
20	QPSK	50	24	22.03	22.15	22.17							
20	QPSK	50	50	21.99	22.09	22.09							
20	QPSK	100	0	22.08	22.12	22.11			23	1			
20	16QAM	1	49	22.04	22.02	22.00							
20	16QAM	1	97	22.04	22.04	22.21							
20	16QAM	50	24	21.10	21.21	21.25			22	2			
20	16QAM	50	50	20.96	21.02	21.05							
20	16QAM	100	0	20.99	21.19	21.21							
20	64QAM	1	0	20.80	21.19	21.50			22	2			
20	64QAM	1	49	21.31	21.42	21.22							
20	64QAM	1	97	21.04	21.38	20.90							
20	64QAM	50	0	20.08	20.12	20.21			21	3			
20	64QAM	50	24	20.11	20.21	19.95							
20	64QAM	50	50	20.13	20.15	20.25							
20	64QAM	100	0	19.83	19.87	19.80			19	5			
20	256QAM	1	49	18.03	18.16	18.00			19	5			
20	256QAM	1	97	18.03	18.17	18.10							
20	256QAM	1	50	18.03	18.15	18.00							
20	256QAM	50	24	17.97	18.05	17.97			19	5			
20	256QAM	50	50	17.94	18.06	18.00							
20	256QAM	100	0	17.90	17.90	17.80							

Band 26_Ant 0													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up (sec)	MPE (dB)					
Channel										15307	15322	15357	
Frequency (MHz)										811.5	811.5	811.5	
15	QPSK	1	0	22.51	22.46	22.47			24	0			
15	QPSK	1	40	22.50	22.51	22.46							
15	QPSK	36	0	21.83	21.56	21.56			23	1			
15	QPSK	36	20	21.59	21.59	21.59							
15	QPSK	36	39	21.58	21.62	21.63							
15	16QAM	1	37	21.62	21.69	21.68			23	1			
15	16QAM	1	74	21.59	21.59	21.58							
15	16QAM	1	40	21.59	21.59	21.58							
15	16QAM	36	20	20.86	20.89	20.81			22	2			
15	16QAM	36	39	20.86	20.82	20.80							
15	16QAM	75	0	20.82	20.87	20.88							
15	64QAM	1	0	20.83	20.75	20.75			22	2			
15	64QAM	1	37	20.83	20.84	20.88							
15	64QAM	1	74	20.85	20.72	20.71							
15	64QAM	36	0	19.87	19.82	19.82			21	3			
15	64QAM	36	20	19.87	19.82	19.82							
15	64QAM	36	39	19.82	19.87	19.89							
15	64QAM	75	0	19.85	19.88	19.89			19	5			
15	256QAM	1	37	17.82	17.82	17.85			19	5			
15	256QAM	1	74	17.86	17.87	17.82							
15	256QAM	1	40	17.86	17.86	17.86							
15	256QAM	36	20	17.84	17.80	17.85			19	5			
15	256QAM	36	39	17.86	17.81	17.86							
15	256QAM	75	0	17.86	17.82	17.82							

Band 66_Ant 1													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up (sec)	MPE (dB)					
Channel										15307	15322	15357	
Frequency (MHz)										811.5	811.5	811.5	
15	QPSK	1	0	22.51	22.46	22.47			24	0			
15	QPSK	1	40	22.50	22.50	22.47							
15	QPSK	36	0	21.83	21.56	21.56			23	1			
15	QPSK	36	20	21.59	21.59	21.59							
15	QPSK	36	39	21.58	21.62	21.63							
15	16QAM	1	37	21.62	21.69	21.68			23	1			
15	16QAM	1	74	21.59	21.59	21.58							
15	16QAM	1	40	21.59	21.59	21.58							
15	16QAM	36	20	20.86	20.89	20.81			22	2			
15	16QAM	36	39	20.86	20.82	20.80							
15	16QAM	75	0	20.82	20.87	20.88							
15	64QAM	1	0	20.83	20.75	20.75			22	2			
15	64QAM	1	37	20.83	20.84	20.8							



Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up limit (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.76	22.80	22.85	23.5	0		
20	QPSK	1	49	22.82	22.83	22.85				
20	QPSK	1	99	22.87	22.89	22.70				
20	QPSK	50	0	22.72	22.73	22.78	23	0.5		
20	QPSK	50	24	22.73	22.78	22.70				
20	QPSK	50	50	22.77	22.21	22.12				
20	QPSK	100	0	22.70	22.70	22.70	23	0.5		
20	16QAM	1	0	22.20	22.20	22.17				
20	16QAM	1	49	22.29	22.28	22.17				
20	16QAM	50	0	20.88	20.92	20.89	22	1.5		
20	16QAM	50	24	20.95	21.05	21.05				
20	16QAM	50	50	21.08	21.03	20.98				
20	16QAM	100	0	21.07	20.98	20.97	22	1.5		
20	16QAM	100	1	20.92	20.81	20.83				
20	16QAM	100	50	20.74	20.89	20.78				
20	16QAM	1	0	19.92	19.97	19.98	21	2.5		
20	16QAM	1	49	20.10	20.10	20.02				
20	16QAM	1	99	20.12	20.18	20.01				
20	16QAM	50	0	17.87	17.89	17.87	19	4.5		
20	16QAM	50	24	17.89	18.04	17.80				
20	16QAM	50	50	18.05	18.13	17.80				
20	16QAM	100	0	18.08	18.19	18.12	19	4.5		
20	16QAM	100	1	18.12	18.29	18.20				
20	16QAM	100	50	17.98	18.12	17.97				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.55	22.61	22.61	23.5	0		
15	QPSK	1	49	22.62	22.73	22.61				
15	QPSK	1	99	22.74	22.84	22.50				
15	QPSK	50	0	21.86	22.00	21.86	23	0.5		
15	QPSK	50	24	22.03	22.13	22.00				
15	QPSK	50	50	22.04	22.09	22.02				
15	QPSK	100	0	22.03	22.04	21.97	23	0.5		
15	16QAM	1	0	22.06	22.12	22.10				
15	16QAM	1	49	22.02	22.13	22.14				
15	16QAM	50	0	19.88	19.97	19.94	22	1.5		
15	16QAM	50	24	19.95	20.07	20.04				
15	16QAM	50	50	20.08	20.07	20.04				
15	16QAM	100	0	20.07	20.07	20.07	22	1.5		
15	16QAM	100	1	19.92	20.01	20.00				
15	16QAM	100	50	20.10	20.06	20.06				
15	16QAM	1	0	17.87	17.89	17.87	21	2.5		
15	16QAM	1	49	17.89	18.04	17.80				
15	16QAM	1	99	18.05	18.13	17.80				
15	16QAM	50	0	18.08	18.19	18.12	21	2.5		
15	16QAM	50	24	18.29	18.29	18.20				
15	16QAM	50	50	17.98	18.12	17.97				
15	16QAM	100	0	17.98	18.12	17.97	21	2.5		
15	16QAM	100	1	17.92	18.01	18.00				
15	16QAM	100	50	18.12	18.05	17.82				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.70	22.82	22.96	23.5	0		
10	QPSK	1	25	22.96	22.81	22.81				
10	QPSK	1	50	22.75	22.84	22.85				
10	QPSK	25	0	21.98	21.97	21.80	23	0.5		
10	QPSK	25	12	22.04	22.04	21.80				
10	QPSK	25	25	21.91	22.04	21.88				
10	QPSK	50	0	22.07	22.09	21.91	23	0.5		
10	16QAM	1	0	22.11	22.11	21.73				
10	16QAM	1	25	21.68	22.11	21.73				
10	16QAM	1	49	22.06	22.18	21.98	22	1.5		
10	16QAM	25	0	21.02	21.08	20.80				
10	16QAM	25	12	21.13	21.07	21.11				
10	16QAM	25	25	21.10	21.05	21.01	22	1.5		
10	16QAM	50	0	21.05	21.11	21.00				
10	16QAM	50	12	20.46	20.88	20.48				
10	16QAM	1	0	20.87	20.87	20.87	22	1.5		
10	16QAM	1	25	20.87	20.87	20.87				
10	16QAM	1	50	20.74	20.30	20.77				
10	16QAM	25	0	19.75	19.92	19.74	21	2.5		
10	16QAM	25	12	19.90	20.04	19.88				
10	16QAM	25	25	19.92	20.00	19.90				
10	16QAM	50	0	20.00	20.02	20.01	21	2.5		
10	16QAM	50	12	19.80	19.84	19.80				
10	16QAM	50	25	19.92	19.99	19.91				
10	16QAM	100	0	17.87	17.89	17.79	19	4.5		
10	16QAM	100	1	17.82	17.83	17.79				
10	16QAM	100	50	17.93	18.08	17.86				
10	16QAM	25	0	17.93	18.08	18.02	19	4.5		
10	16QAM	25	12	18.01	18.11	17.91				
10	16QAM	25	25	17.88	18.00	17.81				

Band 38_Ant 0 HPUE										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power High Ch./Freq.	Power High Ch./Freq.	Time-up limit (min)	MFR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	24.25	24.44	24.19	25.1	0		
20	QPSK	1	49	24.19	24.05	24.21				
20	QPSK	1	99	24.15	24.12	24.23				
20	QPSK	50	0	24.07	24.26	24.07	25.1	0		
20	QPSK	50	24	24.05	24.09	24.20				
20	QPSK	50	50	24.07	24.02	24.14				
20	QPSK	100	0	24.00	24.00	24.14	25.1	0		
20	16QAM	1	0	24.03	23.99	24.14				
20	16QAM	1	49	24.03	23.99	24.14				
20	16QAM	50	0	23.46	23.42	23.41	25	0.1		
20	16QAM	50	24	23.61	23.48	23.63				
20	16QAM	50	50	23.65	23.59	23.59				
20	16QAM	100	0	23.60	23.42	23.59	25	0.1		
20	16QAM	100	1	23.57	23.38	23.44				
20	16QAM	100	50	23.49	23.49	23.52				
20	16QAM	1	0	22.49	22.41	22.36	24	1.1		
20	16QAM	1	49	22.55	22.43	22.52				
20	16QAM	1	99	23.72	23.36	23.55				
20	16QAM	50	0	22.65	22.63	22.61	22	3.1		
20	16QAM	50	24	22.65	22.46	22.61				
20	16QAM	50	50	22.63	22.63	22.61				
20	16QAM	100	0	20.35	20.51	20.32	22	3.1		
20	16QAM	100	1	20.35	20.69	20.42				
20	16QAM	100	50	20.36	20.47	20.32				
20	16QAM	50	0	20.46	20.59	20.40	22	3.1		
20	16QAM	50	24	20.46	20.41	20.48				
20	16QAM	50	50	20.33	20.51	20.39				
Channel										
Frequency (MHz)										
15	QPSK	1	0	24.14	24.34	24.05	25.1	0		
15	QPSK	1	49	24.01	24.05	24.21				
15	QPSK	1	99	24.02	24.00	24.09				
15	QPSK	50	0	24.00	24.14	24.01	25.1	0		
15	QPSK	50	24	24.02	24.04	24.10				
15	QPSK	50	50	23.91	23.93	24.03				
15	QPSK	100	0	24.04	24.02	23.99	25.1	0		
15	16QAM	1	0	24.02	23.99	24.17				
15	16QAM	1	49	24.03	23.99	24.14				
15	16QAM	50	0	23.37	23.30	23.34	25	0.1		
15	16QAM	50	24	23.54	23.30	23.50				
15	16QAM	50	50	23.45	23.37	23.40				
15	16QAM	100	0	23.45	23.30	23.44	25	0.1		
15	16QAM	100	1	23.24	23.27	23.31				
15	16QAM	100	50	23.60	23.42	23.42				
15	16QAM	1	0	22.43	22.28	22.28	24	1.1		
15	16QAM	1	49	22.43	22.28	22.40				
15	16QAM	1	99	22.40	22.43	22.38				
15	16QAM	50	0	22.40	22.43	22.38	24	1.1		
15	16QAM	50	24	22.47	22.34	22.45				
15	16QAM	50	50	22.47	22.34	22.45				
15	16QAM	100	0	20.35	20.51	20.32	22	3.1		
15	16QAM	100	1	20.35	20.69	20.42				
15	16QAM	100	50	20.36	20.47	20.32				
15	16QAM	50	0	20.46	20.59	20.40	22	3.1		
15	16QAM	50	24	20.46	20.41	20.48				
15	16QAM	50	50	20.33	20.51	20.39				
Channel										
Frequency (MHz)										
10	QPSK	1	0	24.17	24.36	24.11	25.1	0		
10	QPSK	1	25	24.06	24.03	24.15				
10	QPSK	1	50	24.05	24.05	24.09				
10	QPSK	25	0	23.96	24.19	23.96	25.1	0		
10	Q									



Band 38 HPUE_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Low Mid Ch. / Freq.	Power High Mid Ch. / Freq.	Time-up limit (dBm)	MFR (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.80	22.82	22.85		24.6	0	
20	QPSK	1	48	22.81	22.83	22.86				
20	QPSK	1	96	22.82	22.79	22.77				
20	QPSK	50	0	22.86	22.81	22.76		24.5	0.1	
20	QPSK	50	24	22.85	22.87	22.79				
20	QPSK	50	50	22.86	22.72	22.68				
20	QPSK	100	0	22.79	22.80	22.81				
20	16QAM	1	0	22.82	22.79	22.77		24.5	0.1	
20	16QAM	1	48	22.84	22.80	22.67				
20	16QAM	100	0	22.75	22.80	22.77				
20	16QAM	50	0	21.72	21.70	21.75		23.5	1.1	
20	16QAM	50	24	21.87	21.81	21.91				
20	16QAM	50	50	21.90	21.84	21.78				
20	16QAM	100	0	21.87	21.85	21.78				
20	16QAM	1	0	21.87	21.86	21.80		23.5	1.1	
20	16QAM	1	48	21.89	21.84	21.85				
20	16QAM	1	96	21.87	21.83	21.74				
20	16QAM	50	0	20.78	20.77	20.86		22.5	2.1	
20	16QAM	50	24	20.84	20.75	20.79				
20	16QAM	50	50	20.84	20.82	20.90				
20	16QAM	100	0	20.78	20.73	20.73				
20	256QAM	1	0	18.85	18.72	18.58		20.5	4.1	
20	256QAM	1	48	18.76	18.84	18.78				
20	256QAM	1	96	18.76	18.85	18.81				
20	256QAM	50	0	18.74	18.83	18.68				
20	256QAM	50	24	18.71	18.85	18.72		20.5	4.1	
20	256QAM	50	50	18.73	18.86	18.77				
20	256QAM	100	0	18.83	18.79	18.69				
Channel										
Frequency (MHz)										
15	QPSK	1	0	22.75	22.88	22.73		24.6	0	
15	QPSK	1	48	22.81	22.83	22.86				
15	QPSK	1	96	22.82	22.87	22.68				
15	QPSK	36	0	22.80	22.75	22.66		24.5	0.1	
15	QPSK	36	24	22.80	22.78	22.68				
15	QPSK	36	36	22.78	22.80	22.83				
15	QPSK	75	0	22.86	22.82	22.74				
15	16QAM	1	0	22.79	22.80	22.81		24.5	0.1	
15	16QAM	1	36	22.70	22.71	22.62				
15	16QAM	1	74	22.78	22.82	22.78				
15	16QAM	36	0	21.67	21.67	21.60		23.5	1.1	
15	16QAM	36	20	21.77	21.85	21.78				
15	16QAM	36	36	21.77	21.73	21.81				
15	16QAM	75	0	21.72	21.60	21.71				
15	16QAM	1	0	21.62	21.66	21.64		23.5	1.1	
15	16QAM	1	36	21.68	21.73	21.68				
15	16QAM	1	74	21.78	21.69	21.67				
15	16QAM	36	0	20.86	20.58	20.74		22.5	2.1	
15	16QAM	36	20	20.74	20.87	20.86				
15	16QAM	36	36	20.79	20.74	20.81				
15	16QAM	75	0	20.73	20.68	20.57				
15	256QAM	1	0	18.69	18.67	18.53		20.5	4.1	
15	256QAM	1	36	18.73	18.71	18.69				
15	256QAM	36	0	18.23	18.70	18.53				
15	256QAM	36	20	18.59	18.72	18.64		20.5	4.1	
15	256QAM	36	36	18.74	18.71	18.66				
15	256QAM	75	0	18.52	18.70	18.58				
Channel										
Frequency (MHz)										
10	QPSK	1	0	22.67	22.30	22.78		24.6	0	
10	QPSK	1	24	22.76	22.82	22.80				
10	QPSK	24	0	22.65	22.76	22.64		24.5	0.1	
10	QPSK	25	12	22.74	22.76	22.76				
10	QPSK	25	15	22.74	22.65	22.60				
10	QPSK	50	0	22.68	22.80	22.72		24.5	0.1	
10	16QAM	1	0	22.81	22.82	22.84		24.5	0.1	
10	16QAM	1	24	22.72	22.87	22.52				
10	16QAM	1	48	22.62	22.71	22.64				
10	16QAM	25	0	21.58	21.65	21.68		23.5	1.1	
10	16QAM	25	12	21.78	21.66	21.79				
10	16QAM	25	25	21.86	21.88	21.87				
10	16QAM	50	0	21.72	21.62	21.61		23.5	1.1	
10	16QAM	1	0	21.56	21.54	21.72				
10	16QAM	1	24	21.71	21.75	21.66				
10	16QAM	1	48	21.62	21.72	21.67		22.5	2.1	
10	16QAM	25	0	20.84	20.59	20.73				
10	16QAM	25	12	20.73	20.68	20.78				
10	16QAM	25	25	20.73	20.77	20.80				
10	16QAM	50	0	20.73	20.62	20.57				
10	256QAM	1	0	18.68	18.67	18.55		20.5	4.1	
10	256QAM	1	24	18.86	18.69	18.71				
10	256QAM	25	0	18.68	18.68	18.60				
10	256QAM	25	12	18.65	18.75	18.60		20.5	4.1	
10	256QAM	25	25	18.71	18.74	18.64				
10	256QAM	50	0	18.58	18.67	18.56				
Channel										
Frequency (MHz)										
5	QPSK	1	0	22.65	22.34	22.75		24.6	0	
5	QPSK	1	12	22.74	22.81	22.80				
5	QPSK	12	0	22.62	22.81	22.87		24.5	0.1	
5	QPSK	12	7	22.79	22.81	22.72				
5	QPSK	15	13	22.74	22.63	22.55				
5	QPSK	25	0	22.62	22.76	22.77		24.5	0.1	
5	16QAM	1	0	22.79	22.89	22.86		24.5	0.1	
5	16QAM	1	12	22.71	22.65	22.51				
5	16QAM	1	24	22.70	22.84	22.71				
5	16QAM	12	7	21.62	21.61	21.67		23.5	1.1	
5	16QAM	12	13	21.82	21.77	21.71				
5	16QAM	25	0	21.71	21.64	21.60		23.5	1.1	
5	16QAM	1	0	21.55	21.60	21.73				
5	16QAM	1	12	21.72	21.70	21.66				
5	16QAM	1	24	21.77	21.73	21.67				
5	16QAM	12	0	20.68	20.65	20.71		22.5	2.1	
5	16QAM	12	7	20.75	20.69	20.66				
5	16QAM	12	13	20.73	20.77	20.79				
5	16QAM	25	0	20.66	20.61	20.68				
5	256QAM	1	0	18.59	18.66	18.62		20.5	4.1	
5	256QAM	1	12	18.65	18.71	18.73				
5	256QAM	1	24	18.87	18.78	18.50				
5	256QAM	12	0	18.63	18.70	18.52		20.5	4.1	
5	256QAM	12	7	18.84	18.69	18.54				
5	256QAM	12	13	18.86	18.72	18.71				
5	256QAM	25	0	18.56	18.66	18.61				

Band 41_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power Low Mid Ch. / Freq.	Power High Mid Ch. / Freq.	Time-up limit (dBm)	MFR (dB)	
Channel										
Frequency (MHz)										
20	QPSK	1	0	22.67	22.73	22.81		23.5	0	
20	QPSK	1	48	22.68	22.79	22.83				
20	QPSK	1	96	22.81	22.88	22.88				
20	QPSK	50	0	22.86	22.86	22.81		23	0.5	
20	QPSK	50	24	22.84	22.72	22.53				
20	QPSK	50	50	22.57	22.50	22.23				
20	QPSK	100	0	22.38	22.38	22.16				
20	16QAM	1	0	22.51	22.50	22.24		23	0.5	
20	16QAM	1	48	22.52	22.17	22.26				
20	16QAM	100	0	22.33	22.22	22.31				
20	16QAM	50	0	21.36	21.36	21.10		22	1.5	
20	16QAM	50	24	21.28	21.32	21.33				
20	16QAM	50	50	21.38	21.23	21.30				
20	16QAM	100	0	21.35	21.29	21.35				
20	16QAM	1	0	20.96	20.85	20.91		22	1.5	
20	16QAM	1	48	20.99	20.89	21.00				
20										



Band 41 HPUE_Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Low Mid Ch./Freq.	Power Low High Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up Int (dBm)	MPR (dB)		
Channel												
Frequency (MHz)												
20	QPSK	1	0	24.38	24.40	24.43	24.32	24.42	25.1	0		
20	QPSK	1	80	24.28	24.29	24.31	24.24	24.29				
20	QPSK	1	160	24.28	24.30	24.27	24.31	24.41				
20	QPSK	50	0	24.47	24.49	24.39	24.29	24.42				
20	QPSK	50	160	24.12	24.22	24.17	24.24	24.24				
20	QPSK	50	160	24.25	24.19	24.24	24.28	24.31	25.1	0		
20	QPSK	50	0	24.29	24.21	24.25	24.35	24.25				
20	HQDM	1	0	24.19	24.20	24.23	24.14	24.26				
20	HQDM	1	80	24.28	24.19	24.17	24.25	24.28				
20	HQDM	1	160	24.20	24.20	24.20	24.27	24.28				
20	HQDM	50	0	23.74	23.78	23.89	23.84	23.84	25	0.1		
20	HQDM	50	24	23.73	23.82	23.77	23.76	23.71				
20	HQDM	50	160	23.88	23.79	23.74	23.86	23.82				
20	HQDM	100	0	23.78	23.74	23.73	23.72	23.72				
20	HQDM	100	1	23.46	23.91	23.83	23.88	23.71				
20	HQDM	1	80	23.82	23.70	23.65	23.75	23.75	25	0.1		
20	HQDM	1	160	23.70	23.84	23.71	23.58	23.78				
20	HQDM	50	0	22.47	22.79	22.62	22.67	22.43				
20	HQDM	50	24	22.65	22.52	22.72	22.70	22.50				
20	HQDM	50	160	22.64	22.71	22.70	22.86	22.86				
20	HQDM	100	0	22.78	22.85	22.77	22.75	22.78	22	3.1		
20	ZSSDM	1	0	20.28	20.28	20.40	20.50	20.45				
20	ZSSDM	1	80	20.17	20.08	20.36	20.58	20.62				
20	ZSSDM	1	160	20.13	20.11	20.35	20.48	20.60				
20	ZSSDM	50	0	20.41	20.32	20.38	20.57	20.64				
20	ZSSDM	50	24	20.43	20.27	20.58	20.64	20.71	22	3.1		
20	ZSSDM	50	160	20.41	20.33	20.53	20.64	20.64				
20	ZSSDM	100	0	20.33	20.21	20.39	20.58	20.55				
Channel												
Frequency (MHz)												
16	QPSK	1	0	24.24	24.29	24.36	24.27	24.24	26.10	0		
16	QPSK	1	80	24.13	24.23	24.31	24.24	24.28				
16	QPSK	1	160	24.14	24.24	24.11	24.26	24.32				
16	QPSK	36	0	24.13	24.14	24.31	24.23	24.11				
16	QPSK	36	160	23.98	24.01	24.09	24.12	24.12				
16	QPSK	36	160	24.18	24.09	24.14	24.21	24.18	25.1	0		
16	QPSK	75	0	24.23	24.14	24.27	24.10	24.01				
16	HQDM	1	0	24.11	24.24	24.13	24.09	24.20				
16	HQDM	1	80	24.13	24.09	24.12	24.18	24.12				
16	HQDM	1	160	24.22	24.07	24.14	24.07	24.14				
16	HQDM	36	0	23.84	23.88	23.82	23.82	23.89	25	0.1		
16	HQDM	36	20	23.83	23.89	23.87	23.85	23.81				
16	HQDM	36	160	23.80	23.81	23.82	23.84	23.75				
16	HQDM	75	0	23.60	23.58	23.60	23.64	23.67				
16	HQDM	1	0	23.31	23.65	23.53	23.58	23.68				
16	HQDM	1	80	23.48	23.59	23.50	23.52	23.47	25	0.1		
16	HQDM	1	160	23.59	23.51	23.62	23.46	23.71				
16	HQDM	36	0	22.59	22.61	22.51	22.57	22.67				
16	HQDM	36	160	22.59	22.69	22.60	22.60	22.66				
16	HQDM	36	160	22.57	22.62	22.62	22.61	22.75				
16	HQDM	75	0	22.60	22.72	22.69	22.62	22.64	22	3.1		
16	ZSSDM	1	0	20.12	20.05	20.25	20.44	20.53				
16	ZSSDM	1	80	20.09	20.10	20.22	20.50	20.48				
16	ZSSDM	1	160	20.15	20.10	20.31	20.43	20.57				
16	ZSSDM	36	0	20.25	20.18	20.45	20.59	20.55				
16	ZSSDM	36	20	20.33	20.18	20.32	20.45	20.45	22	3.1		
16	ZSSDM	36	160	20.25	20.11	20.33	20.44	20.45				
Channel												
Frequency (MHz)												
10	QPSK	1	0	24.23	24.30	24.38	24.24	24.30			25.10	0
10	QPSK	1	20	24.19	24.22	24.24	24.11	24.23				
10	QPSK	1	40	24.13	24.18	24.19	24.12	24.20				
10	QPSK	25	0	24.20	24.21	24.31	24.12	24.05				
10	QPSK	25	160	24.04	24.14	24.19	24.14	24.14				
10	QPSK	25	25	24.15	24.02	24.15	24.12	24.25	25.1	0		
10	QPSK	50	0	24.24	24.05	24.28	24.14	24.06				
10	HQDM	1	0	24.14	24.14	24.13	24.05	24.01				
10	HQDM	1	25	24.22	24.10	24.10	24.20	24.20				
10	HQDM	1	40	24.06	24.18	24.11	24.12	24.15				
10	HQDM	25	0	23.89	23.82	23.84	23.90	23.74	25	0.1		
10	HQDM	25	12	23.88	23.73	23.71	23.70	23.56				
10	HQDM	25	25	23.86	23.86	23.81	23.83	23.79				
10	HQDM	50	0	23.82	23.87	23.83	23.83	23.87				
10	HQDM	1	0	23.35	23.59	23.47	23.56	23.65				
10	HQDM	1	20	23.41	23.56	23.46	23.48	23.67	25	0.1		
10	HQDM	1	40	23.54	23.59	23.60	23.42	23.56				
10	HQDM	25	0	22.42	22.84	22.52	22.54	22.73				
10	HQDM	25	12	22.59	22.72	22.68	22.84	22.84				
10	HQDM	25	25	22.59	22.55	22.65	22.51	22.70				
10	HQDM	50	0	22.65	22.75	22.68	22.59	22.64	24	1.1		
10	ZSSDM	1	0	20.17	20.20	20.35	20.47	20.51				
10	ZSSDM	1	20	20.12	20.02	20.26	20.44	20.48				
10	ZSSDM	1	40	20.17	20.03	20.20	20.35	20.51				
10	ZSSDM	25	0	20.29	20.16	20.22	20.48	20.52				
10	ZSSDM	25	12	20.28	20.12	20.46	20.58	20.63	22	3.1		
10	ZSSDM	25	20	20.29	20.24	20.38	20.41	20.43				
10	ZSSDM	50	0	20.25	20.09	20.28	20.45	20.42				
Channel												
Frequency (MHz)												
5	QPSK	1	0	24.24	24.25	24.34	24.20	24.25	25.10	0		
5	QPSK	1	12	24.18	24.23	24.21	24.11	24.27				
5	QPSK	1	24	24.13	24.18	24.19	24.17	24.21				
5	QPSK	12	0	24.15	24.14	24.32	24.17	24.11				
5	QPSK	12	7	24.03	24.09	24.13	24.12	24.12				
5	QPSK	12	31	24.14	24.09	24.11	24.12	24.15	25.1	0		
5	QPSK	25	0	24.24	24.10	24.24	24.17	24.00				
5	HQDM	1	0	24.03	24.17	24.16	24.05	24.21				
5	HQDM	1	12	24.17	24.04	24.08	24.19	24.15				
5	HQDM	1	24	24.07	24.21	24.05	24.15	24.20				
5	HQDM	12	0	23.89	23.85	23.82	23.51	23.74	25	0.1		
5	HQDM	12	7	23.59	23.74	23.64	23.61	23.57				
5	HQDM	12	13	23.60	23.72	23.64	23.56	23.70				
5	HQDM	12	19	23.67	23.68	23.64	23.56	23.61				
5	HQDM	1	0	23.38	23.48	23.48	23.59	23.59				
5	HQDM	1	12	23.50	23.56	23.41	23.53	23.65	25	0.1		
5	HQDM	1	24	23.64	23.51	23.64	23.49	23.65				
5	HQDM	12	0	22.38	22.70	22.50	22.59	22.71				
5	HQDM	12	7	22.55	22.68	22.61	22.61	22.72				
5	HQDM	12	13	22.49	22.65	22.60	22.61	22.64				
5	HQDM	25	0	22.68	22.79	22.66	22.59	22.69	24	1.1		
5	ZSSDM	1	0	20.13	20.17	20.24	20.44	20.42				
5	ZSSDM	1	12	20.10	20.07	20.25	20.51	20.47				
5	ZSSDM	1	24	20.08	20.05	20.19	20.40	20.51				
5	ZSSDM	12	0	20.33	20.21	20.26	20.51	20.55				
5	ZSSDM	12	7	20.38	20.15	20.44	20.58	20.55	22	3.1		
5	ZSSDM	12	13	20.35	20.22	20.34	20.42	20.52				
5	ZSSDM	25	0	20.21	20.03	20.26	20.44	20.39				

Band 42_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Low Mid Ch./Freq.	Power Low High Ch./Freq.	Power Mid Ch./Freq.	Power High Ch./Freq.	Tune-up Int (dBm)	MPR (dB)
Channel										
Frequency (MHz)										
20	QPSK	1	0	19.95	19.20	20.02			21	0
20	QPSK	1	80	19.89	20.07	20.07				
20	QPSK	1	160	19.89	19.90	19.79				
20	QPSK	50	0	19.91	20.12	19.96				
20	QPSK	50	160	19.82	19.86	19.86				
20	QPSK	50	160	19.72	19.74	19.85			21	0
20	HQDM	1	0	19.77	19.97	19.91				
20	HQDM	1	80	19.78	19.79	19.70				
20	HQDM	1	160	19.80	19.84	19.86				
20	HQDM	50	0	19.74	19.77	19.92				





Reduced Power for DSI 4

OSM100_Ant 6	Best Average Power (dBm)			Tune-up Limit	Frame-Average Power Limit			Tune-up Limit
	95%	99%	99.9%		95%	99%	99.9%	
Frequency (MHz)	11.2	11.4	11.6	11.0	11.2	11.4	11.6	11.0
OSM1 Tx Rate	32.25	31.21	32.25	33.00	32.25	32.23	32.25	24.00
OPRS 1 Tx Rate	32.13	31.92	32.38	33.00	32.13	32.02	32.38	24.00
OPRS 2 Tx Rate	30.33	29.26	30.38	31.00	30.33	29.26	30.38	25.00
OPRS 3 Tx Rate	29.43	28.31	29.50	30.00	29.47	28.32	29.53	25.24
OPRS 4 Tx Rate	28.81	28.04	28.75	29.00	28.81	28.04	28.75	25.00
EDGE 1 Tx Rate	24.02	24.22	24.79	27.00	24.02	24.22	24.79	18.00
EDGE 2 Tx Rate	24.01	24.22	24.79	26.00	24.01	24.22	24.79	20.00
EDGE 3 Tx Rate	23.50	23.29	23.68	24.00	23.50	23.29	23.68	20.24
EDGE 4 Tx Rate	23.00	23.01	23.00	23.00	23.00	23.01	23.00	20.00

OSM100_Ant 5	Best Average Power (dBm)			Tune-up Limit	Frame-Average Power Limit			Tune-up Limit
	95%	99%	99.9%		95%	99%	99.9%	
Frequency (MHz)	109.2	109.0	109.8	105.0	109.2	109.0	109.8	105.0
OSM1 Tx Rate	29.86	29.41	29.83	30.00	29.86	29.41	29.83	21.00
OPRS 1 Tx Rate	27.08	26.4	27.08	28.00	27.08	26.4	27.08	21.00
OPRS 2 Tx Rate	27.02	27.47	27.05	28.00	27.02	27.47	27.05	22.00
OPRS 3 Tx Rate	26.79	25.87	26.74	27.00	26.79	25.87	26.74	22.74
OPRS 4 Tx Rate	24.25	24.26	24.43	26.00	24.25	24.26	24.43	23.00
EDGE 1 Tx Rate	20.75	20.50	20.72	27.00	20.75	20.50	20.72	18.00
EDGE 2 Tx Rate	20.71	20.42	20.70	26.00	20.71	20.42	20.70	20.00
EDGE 3 Tx Rate	20.06	20.24	20.01	24.00	20.06	20.48	20.75	20.24
EDGE 4 Tx Rate	22.12	21.40	21.04	23.00	22.12	21.61	21.04	20.00

BMS	WCCMA_V_Ant 0			Tune-up Limit	WCCMA_V_Ant 0			Tune-up Limit	WCCMA_V_Ant 0			Tune-up Limit
	95%	99%	99.9%		95%	99%	99.9%		95%	99%	99.9%	
Frequency (MHz)	109.4	109.0	109.8	105.0	109.4	109.0	109.8	105.0	109.4	109.0	109.8	105.0
SOPF Rate	23.28	23.49	23.20	24.00	23.27	23.40	23.38	24.00	23.04	23.11	23.01	24.00
SOPF Rate	23.29	23.20	23.22	24.00	23.19	23.20	23.41	24.00	23.05	23.12	23.02	24.00
SOPF Rate	22.25	22.59	22.25	23.00	22.22	22.26	22.28	23.00	21.96	22.01	21.95	23.00
SOPF Rate	22.27	22.07	22.24	23.00	22.23	22.29	22.27	23.00	21.98	22.01	21.97	23.00
SOPF Rate	21.80	22.05	21.71	22.00	21.72	22.03	22.06	22.00	21.90	21.94	21.48	22.00
SOPF Rate	21.83	22.01	21.74	22.00	21.72	21.95	22.08	22.00	21.43	21.55	21.41	22.00
SOPF Rate	22.21	22.40	22.41	23.00	22.22	22.35	22.21	23.00	21.99	21.99	21.98	23.00
SOPF Rate	22.08	22.45	22.48	23.00	22.23	22.23	22.20	23.00	21.98	21.68	21.94	23.00
SOPF Rate	22.03	22.15	22.07	22.00	21.72	22.00	21.91	22.00	21.90	21.55	21.44	22.00
SOPF Rate	22.06	22.09	22.00	22.00	21.72	21.89	22.01	22.00	21.43	21.30	21.41	22.00
SOPF Rate	22.27	22.01	22.25	23.00	22.17	22.44	22.26	23.00	21.95	22.04	21.92	23.00
SOPF Rate	22.30	22.01	22.07	21.00	22.10	22.44	22.05	21.00	21.92	22.00	21.82	21.00
SOPF Rate	21.30	21.52	21.21	22.00	21.23	21.43	21.58	22.00	20.90	21.00	20.81	22.00
SOPF Rate	20.28	20.48	20.24	21.00	20.19	20.41	20.59	21.00	19.91	19.99	19.90	21.00
SOPF Rate	20.30	20.05	20.25	23.00	20.15	20.05	20.05	23.00	20.00	20.00	20.00	23.00



Band 2\_Ant 0

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (mW), Power Ch./F.Freq., Power H./F.Freq., Power L./F.Freq., Turn-on time (min), MPR (dB), Channel, Frequency (MHz), and a grid of 24x24 cells for BW, Mod, RB Sca, RB Off, Power, Power Ch./F.Freq., Power H./F.Freq., Power L./F.Freq., Turn-on time, MPR, Channel, and Frequency.

Band 2\_Ant 1

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (mW), Power Ch./F.Freq., Power H./F.Freq., Power L./F.Freq., Turn-on time (min), MPR (dB), Channel, Frequency (MHz), and a grid of 24x24 cells for BW, Mod, RB Sca, RB Off, Power, Power Ch./F.Freq., Power H./F.Freq., Power L./F.Freq., Turn-on time, MPR, Channel, and Frequency.

Band 4\_Ant 0

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (mW), Power Ch./F.Freq., Power H./F.Freq., Power L./F.Freq., Turn-on time (min), MPR (dB), Channel, Frequency (MHz), and a grid of 24x24 cells for BW, Mod, RB Sca, RB Off, Power, Power Ch./F.Freq., Power H./F.Freq., Power L./F.Freq., Turn-on time, MPR, Channel, and Frequency.

Band 4\_Ant 1

Table with columns: BW (MHz), Modulation, RB Sca, RB Offset, Power (mW), Power Ch./F.Freq., Power H./F.Freq., Power L./F.Freq., Turn-on time (min), MPR (dB), Channel, Frequency (MHz), and a grid of 24x24 cells for BW, Mod, RB Sca, RB Off, Power, Power Ch./F.Freq., Power H./F.Freq., Power L./F.Freq., Turn-on time, MPR, Channel, and Frequency.

















CA_7C Ant 0											
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	99	1	0	1	0	Default Power	23.57	24.00
21100	21298	QPSK	1	99	1	0	1	0	Default Power	23.61	24.00
21350	21152	QPSK	1	0	1	99	1	0	Default Power	23.03	24.00
20850	21048	QPSK	1	99	1	0	1	0	DSI 2(Standalone)	23.57	24.00
21100	21298	QPSK	1	99	1	0	1	0	DSI 2(Standalone)	23.61	24.00
21350	21152	QPSK	1	0	1	99	1	0	DSI 2(Standalone)	23.03	24.00
20850	21048	QPSK	1	99	1	0	1	0	DSI 2(Simultaneous)	23.57	24.00
21100	21298	QPSK	1	99	1	0	1	0	DSI 2(Simultaneous)	23.61	24.00
21350	21152	QPSK	1	0	1	99	1	0	DSI 2(Simultaneous)	23.03	24.00
20850	21048	QPSK	1	99	1	0	1	0	DSI 3(Standalone)	17.88	19.20
21100	21298	QPSK	1	99	1	0	1	0	DSI 3(Standalone)	17.85	19.20
21350	21152	QPSK	1	0	1	99	1	0	DSI 3(Standalone)	17.78	19.20
20850	21048	QPSK	1	99	1	0	1	0	DSI 3(Simultaneous)	14.66	16.00
21100	21298	QPSK	1	99	1	0	1	0	DSI 3(Simultaneous)	14.70	16.00
21350	21152	QPSK	1	0	1	99	1	0	DSI 3(Simultaneous)	14.68	16.00
20850	21048	QPSK	1	99	1	0	1	0	DSI 6(Standalone)	20.59	21.90
21100	21298	QPSK	1	99	1	0	1	0	DSI 6(Standalone)	20.42	21.90
21350	21152	QPSK	1	0	1	99	1	0	DSI 6(Standalone)	20.58	21.90
20850	21048	QPSK	1	99	1	0	1	0	DSI 6(Simultaneous)	20.59	21.90
21100	21298	QPSK	1	99	1	0	1	0	DSI 6(Simultaneous)	20.42	21.90
21350	21152	QPSK	1	0	1	99	1	0	DSI 6(Simultaneous)	20.58	21.90

CA_7C Ant 1											
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	99	1	0	1	0	Default Power	21.69	23.00
21100	21298	QPSK	1	99	1	0	1	0	Default Power	21.72	23.00
21350	21152	QPSK	1	0	1	99	1	0	Default Power	21.11	23.00
20850	21048	QPSK	1	99	1	0	1	0	DSI 2(Standalone)	17.01	18.60
21100	21298	QPSK	1	99	1	0	1	0	DSI 2(Standalone)	16.95	18.60
21350	21152	QPSK	1	0	1	99	1	0	DSI 2(Standalone)	17.04	18.60
20850	21048	QPSK	1	99	1	0	1	0	DSI 2(Simultaneous)	14.43	16.00
21100	21298	QPSK	1	99	1	0	1	0	DSI 2(Simultaneous)	14.38	16.00
21350	21152	QPSK	1	0	1	99	1	0	DSI 2(Simultaneous)	14.45	16.00
20850	21048	QPSK	1	99	1	0	1	0	DSI 3(Standalone)	17.80	19.40
21100	21298	QPSK	1	99	1	0	1	0	DSI 3(Standalone)	17.84	19.40
21350	21152	QPSK	1	0	1	99	1	0	DSI 3(Standalone)	17.73	19.40
20850	21048	QPSK	1	99	1	0	1	0	DSI 3(Simultaneous)	14.49	16.00
21100	21298	QPSK	1	99	1	0	1	0	DSI 3(Simultaneous)	14.53	16.00
21350	21152	QPSK	1	0	1	99	1	0	DSI 3(Simultaneous)	14.45	16.00
20850	21048	QPSK	1	99	1	0	1	0	DSI 6(Standalone)	19.14	20.60
21100	21298	QPSK	1	99	1	0	1	0	DSI 6(Standalone)	18.95	20.60
21350	21152	QPSK	1	0	1	99	1	0	DSI 6(Standalone)	19.16	20.60
20850	21048	QPSK	1	99	1	0	1	0	DSI 6(Simultaneous)	18.53	20.00
21100	21298	QPSK	1	99	1	0	1	0	DSI 6(Simultaneous)	18.35	20.00
21350	21152	QPSK	1	0	1	99	1	0	DSI 6(Simultaneous)	18.58	20.00



CA_38C Ant 0											
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	1	0	1	0	Default Power	23.61	24.00
37901	38099	QPSK	1	99	1	0	1	0	Default Power	23.63	24.00
38150	37952	QPSK	1	0	1	99	1	0	Default Power	23.01	24.00
37850	38048	QPSK	1	99	1	0	1	0	DSI 2(Standalone)	23.61	24.00
37901	38099	QPSK	1	99	1	0	1	0	DSI 2(Standalone)	23.63	24.00
38150	37952	QPSK	1	0	1	99	1	0	DSI 2(Standalone)	23.01	24.00
37850	38048	QPSK	1	99	1	0	1	0	DSI 2(Simultaneous)	23.61	24.00
37901	38099	QPSK	1	99	1	0	1	0	DSI 2(Simultaneous)	23.63	24.00
38150	37952	QPSK	1	0	1	99	1	0	DSI 2(Simultaneous)	23.01	24.00
37850	38048	QPSK	1	99	1	0	1	0	DSI 3(Standalone)	20.19	21.40
37901	38099	QPSK	1	99	1	0	1	0	DSI 3(Standalone)	20.13	21.40
38150	37952	QPSK	1	0	1	99	1	0	DSI 3(Standalone)	20.29	21.40
37850	38048	QPSK	1	99	1	0	1	0	DSI 3(Simultaneous)	16.71	17.90
37901	38099	QPSK	1	99	1	0	1	0	DSI 3(Simultaneous)	16.76	17.90
38150	37952	QPSK	1	0	1	99	1	0	DSI 3(Simultaneous)	16.83	17.90
37850	38048	QPSK	1	99	1	0	1	0	DSI 6(Standalone)	22.17	23.50
37901	38099	QPSK	1	99	1	0	1	0	DSI 6(Standalone)	22.30	23.50
38150	37952	QPSK	1	0	1	99	1	0	DSI 6(Standalone)	22.35	23.50
37850	38048	QPSK	1	99	1	0	1	0	DSI 6(Simultaneous)	22.17	23.50
37901	38099	QPSK	1	99	1	0	1	0	DSI 6(Simultaneous)	22.30	23.50
38150	37952	QPSK	1	0	1	99	1	0	DSI 6(Simultaneous)	22.35	23.50

CA_38C Ant 1											
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	1	0	1	0	Default Power	21.65	23.00
37901	38099	QPSK	1	99	1	0	1	0	Default Power	21.53	23.00
38150	37952	QPSK	1	0	1	99	1	0	Default Power	20.98	23.00
37850	38048	QPSK	1	99	1	0	1	0	DSI 2(Standalone)	18.80	20.50
37901	38099	QPSK	1	99	1	0	1	0	DSI 2(Standalone)	18.90	20.50
38150	37952	QPSK	1	0	1	99	1	0	DSI 2(Standalone)	18.85	20.50
37850	38048	QPSK	1	99	1	0	1	0	DSI 2(Simultaneous)	16.48	18.10
37901	38099	QPSK	1	99	1	0	1	0	DSI 2(Simultaneous)	16.52	18.10
38150	37952	QPSK	1	0	1	99	1	0	DSI 2(Simultaneous)	16.50	18.10
37850	38048	QPSK	1	99	1	0	1	0	DSI 3(Standalone)	19.00	20.60
37901	38099	QPSK	1	99	1	0	1	0	DSI 3(Standalone)	19.04	20.60
38150	37952	QPSK	1	0	1	99	1	0	DSI 3(Standalone)	19.01	20.60
37850	38048	QPSK	1	99	1	0	1	0	DSI 3(Simultaneous)	16.75	18.40
37901	38099	QPSK	1	99	1	0	1	0	DSI 3(Simultaneous)	16.83	18.40
38150	37952	QPSK	1	0	1	99	1	0	DSI 3(Simultaneous)	16.80	18.40
37850	38048	QPSK	1	99	1	0	1	0	DSI 6(Standalone)	22.13	23.00
37901	38099	QPSK	1	99	1	0	1	0	DSI 6(Standalone)	22.16	23.00
38150	37952	QPSK	1	0	1	99	1	0	DSI 6(Standalone)	22.15	23.00
37850	38048	QPSK	1	99	1	0	1	0	DSI 6(Simultaneous)	22.13	23.00
37901	38099	QPSK	1	99	1	0	1	0	DSI 6(Simultaneous)	22.16	23.00
38150	37952	QPSK	1	0	1	99	1	0	DSI 6(Simultaneous)	22.15	23.00



CA_41C Ant 0											
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					
39750	39948	QPSK	1	99	1	0	1	0	Default Power	23.52	24.00
40185	40383	QPSK	1	99	1	0	1	0	Default Power	23.39	24.00
40620	40818	QPSK	1	99	1	0	1	0	Default Power	23.49	24.00
41055	41253	QPSK	1	99	1	0	1	0	Default Power	23.66	24.00
41490	41292	QPSK	1	0	1	99	1	0	Default Power	23.07	24.00
39750	39948	QPSK	1	99	1	0	1	0	DSI 2(Standalone)	23.35	24.00
40185	40383	QPSK	1	99	1	0	1	0	DSI 2(Standalone)	23.39	24.00
40620	40818	QPSK	1	99	1	0	1	0	DSI 2(Standalone)	23.49	24.00
41055	41253	QPSK	1	99	1	0	1	0	DSI 2(Standalone)	23.42	24.00
41490	41292	QPSK	1	0	1	99	1	0	DSI 2(Standalone)	23.07	24.00
39750	39948	QPSK	1	99	1	0	1	0	DSI 2(Simultaneous)	23.35	24.00
40185	40383	QPSK	1	99	1	0	1	0	DSI 2(Simultaneous)	23.39	24.00
40620	40818	QPSK	1	99	1	0	1	0	DSI 2(Simultaneous)	23.49	24.00
41055	41253	QPSK	1	99	1	0	1	0	DSI 2(Simultaneous)	23.42	24.00
41490	41292	QPSK	1	0	1	99	1	0	DSI 2(Simultaneous)	23.07	24.00
39750	39948	QPSK	1	99	1	0	1	0	DSI 3(Standalone)	20.05	21.40
40185	40383	QPSK	1	99	1	0	1	0	DSI 3(Standalone)	19.89	21.40
40620	40818	QPSK	1	99	1	0	1	0	DSI 3(Standalone)	20.52	21.40
41055	41253	QPSK	1	99	1	0	1	0	DSI 3(Standalone)	20.21	21.40
41490	41292	QPSK	1	0	1	99	1	0	DSI 3(Standalone)	20.20	21.40
39750	39948	QPSK	1	99	1	0	1	0	DSI 3(Simultaneous)	16.56	17.90
40185	40383	QPSK	1	99	1	0	1	0	DSI 3(Simultaneous)	16.38	17.90
40620	40818	QPSK	1	99	1	0	1	0	DSI 3(Simultaneous)	16.85	17.90
41055	41253	QPSK	1	99	1	0	1	0	DSI 3(Simultaneous)	16.70	17.90
41490	41292	QPSK	1	0	1	99	1	0	DSI 3(Simultaneous)	16.68	17.90
39750	39948	QPSK	1	99	1	0	1	0	DSI 6(Standalone)	22.40	23.50
40185	40383	QPSK	1	99	1	0	1	0	DSI 6(Standalone)	22.02	23.50
40620	40818	QPSK	1	99	1	0	1	0	DSI 6(Standalone)	22.28	23.50
41055	41253	QPSK	1	99	1	0	1	0	DSI 6(Standalone)	22.34	23.50
41490	41292	QPSK	1	0	1	99	1	0	DSI 6(Standalone)	22.33	23.50
39750	39948	QPSK	1	99	1	0	1	0	DSI 6(Simultaneous)	22.40	23.50
40185	40383	QPSK	1	99	1	0	1	0	DSI 6(Simultaneous)	22.02	23.50
40620	40818	QPSK	1	99	1	0	1	0	DSI 6(Simultaneous)	22.28	23.50
41055	41253	QPSK	1	99	1	0	1	0	DSI 6(Simultaneous)	22.34	23.50
41490	41292	QPSK	1	0	1	99	1	0	DSI 6(Simultaneous)	22.33	23.50



**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	Band 4	20M	1732.5	20175	QPSK	1	0	Band 5	10M	881.5	2525	22.98	23.05	
	CA_5A-41A	Band 5	10M	836.5	20525	QPSK	1	0	Band 41	20M	2593	40620	22.36	22.56	
	CA_7A-26A	Band 7	20M	2535	21100	QPSK	1	0	Band 26	15M	876.5	8865	22.75	23.06	
	CA_26A-41A	Band 26	15M	831.5	26865	QPSK	1	0	Band 41	20M	2593	40620	22.32	22.58	
	CA_26A-66A	Band 26	15M	831.5	26865	QPSK	1	0	Band 66	20M	2155	66886	22.34	22.58	
	CA_38A-66A	Band 38	20M	2595	38000	QPSK	1	0	Band 66	20M	2155	66886	22.95	23.20	
	CA_7A-42A	Band 7	20M	2535	21100	QPSK	1	0	Band 42	20M	3500	42590	22.83	23.06	
	CA_41A-42A	Band 41	20M	2593	40620	QPSK	1	0	Band 42	20M	3500	42590	23.02	23.21	
Intra-Band	Contiguous	CA_42C	Band 42	20M	3500	42590	QPSK	1	0	Band 42	20M	3519.8	42788	23.00	23.18
		CA_2C	Band 2	20M	1880	18900	QPSK	1	0	Band 2	20M	1979.80	1098	22.83	23.02
		CA_7B	Band 7	15M	2535	21100	QPSK	1	0	Band 7	5M	2664.30	3193	22.92	23.06
		CA_38C	Band 38	15M	2595	38000	QPSK	1	0	Band 38	15M	2580.00	38150	23.18	23.20

**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	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 5	10M	881.5	2525	22.83	23.02	
	CA_2A-4A-7A	Band 2	20M	1880	18900	QPSK	1	0	Band 4	20M	2132.5	2175	Band 7	20M	2655	3100	22.86	23.02	
	CA_2A-5A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 5	10M	881.5	2525	Band 66	20M	2155	66886	22.82	23.02	
	CA_2A-7C	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.91	23.02	
	CA_2A-7A-7A	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	22.82	23.02	
	CA_2A-7A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 7	20M	2655	3100	Band 66	20M	2145	66786	22.85	23.02	
	CA_2A-66A-66A	Band 2	20M	1880	18900	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.76	23.02	
	CA_4A-7C	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.78	23.05	
	CA_5A-7C	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 7	20M	2674.8	3298	22.41	22.56	
	CA_5A-7A-66A	Band 5	10M	836.5	20525	QPSK	1	0	Band 7	20M	2655	3100	Band 66	20M	2155	66886	22.53	22.56	
	CA_5A-66A-66A	Band 5	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.44	22.56	
	CA_7A-66A-66A	Band 7	20M	2535	21100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.83	23.06	
	Intra-Band	Non-Contiguous	CA_41A-41A-41A	Band 41	20M	2593	40620	QPSK	1	0	Band 41	5M	2502.5	39715	Band 41	20M	2680	41490	22.92

**4CC**

Configure	CA Configuration (BCS)	PCC							SCC1				SCC2				SCC3				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	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx.Power (dBm)	W/O CA Tx.Power (dBm)	
Intra-Band	Non-Contiguous	CA_41C-41C	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 41	20M	2660.2	41292	Band 41	20M	2680	41490	22.93	23.21
		CA_41A-41D	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2634.4	41034	Band 41	20M	2660.2	41292	Band 41	20M	2680	41490	22.95	23.21
		CA_41A-41A-41C	Band 41	20M	2593	40620	QPSK	1	0	Band 41	5M	2687.5	41565	Band 41	20M	2655.1	41241	Band 41	20M	2674.9	41439	23.01	23.21
	Contiguous	CA_41E	Band 41	20M	2593	40620	QPSK	1	0	Band 41	20M	2612.8	40818	Band 41	20M	2638.6	41076	Band 41	20M	2658.4	41274	23.06	23.21



Full power&Default power

n2_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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	23.08	23.09	23.12			
20	PI/2 BPSK	1	53	23.06	23.17	23.03	24.0	0.0	
20	PI/2 BPSK	1	104	23.05	23.13	22.93			
20	PI/2 BPSK	50	0	22.81	22.88	22.54	23.5	0.5	
20	PI/2 BPSK	50	28	23.09	23.16	23.02	24.0	0.0	
20	PI/2 BPSK	50	56	22.59	22.66	22.49			
20	PI/2 BPSK	100	0	22.83	22.88	22.53	23.5	0.5	
20	QPSK	1	1	23.09	23.16	23.02			
20	QPSK	1	53	23.07	23.20	22.87	24.0	0.0	
20	QPSK	1	104	23.11	23.13	22.88			
20	QPSK	50	0	22.12	22.17	22.04	23.0	1.0	
20	QPSK	50	28	23.07	23.17	23.05	24.0	0.0	
20	QPSK	50	56	22.03	22.13	21.89			
20	QPSK	100	0	22.11	22.20	22.05	23.0	1.0	
20	16QAM	1	1	22.02	22.07	22.05	23.0	1.0	
20	64QAM	1	1	20.57	20.55	20.13	21.5	2.5	
20	256QAM	1	1	18.84	18.89	18.70	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit	MPR	
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)	
15	PI/2 BPSK	1	1	23.25	23.28	23.02	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)	
10	PI/2 BPSK	1	1	23.12	23.23	22.94	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit	MPR	
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	PI/2 BPSK	1	1	23.16	23.26	23.01	24.0	0.0	

n5_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				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	23.11	23.19	23.02			
20	PI/2 BPSK	1	53	22.97	22.87	22.91	24.0	0.0	
20	PI/2 BPSK	1	104	22.87	22.76	22.81			
20	PI/2 BPSK	50	0	22.52	22.48	22.45	23.5	0.5	
20	PI/2 BPSK	50	28	22.93	22.94	22.91	24.0	0.0	
20	PI/2 BPSK	50	56	22.36	22.35	22.32			
20	PI/2 BPSK	100	0	22.47	22.48	22.46	23.5	0.5	
20	QPSK	1	1	22.89	23.03	22.91			
20	QPSK	1	53	22.77	22.92	22.72	24.0	0.0	
20	QPSK	1	104	22.66	22.77	22.62			
20	QPSK	50	0	21.79	21.95	21.84	23.0	1.0	
20	QPSK	50	28	22.76	22.88	22.76	24.0	0.0	
20	QPSK	50	56	21.68	21.84	21.78			
20	QPSK	100	0	21.89	21.97	21.82	23.0	1.0	
20	16QAM	1	1	22.05	22.21	22.05	23.0	1.0	
20	64QAM	1	1	20.18	20.23	20.17	21.5	2.5	
20	256QAM	1	1	18.66	18.76	18.65	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	PI/2 BPSK	1	1	23.07	23.18	23.01	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit	MPR	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	PI/2 BPSK	1	1	23.04	22.89	22.96	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit	MPR	
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)	
5	PI/2 BPSK	1	1	23.11	23.02	22.96	24.0	0.0	



n7_Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	23.43	23.48	23.24	
40	PI/2 BPSK	1	108	23.44	23.33	23.23	
40	PI/2 BPSK	1	214	23.35	23.29	23.12	
40	PI/2 BPSK	108	0	23.01	22.82	22.84	24.0
40	PI/2 BPSK	108	54	23.12	23.13	23.11	24.0
40	PI/2 BPSK	108	108	22.84	22.93	22.83	23.5
40	PI/2 BPSK	216	0	22.85	22.89	22.88	24.0
40	QPSK	1	1	23.39	23.46	23.37	
40	QPSK	1	108	23.05	23.14	22.98	24.0
40	QPSK	1	214	23.21	23.31	23.19	
40	QPSK	108	0	22.30	22.36	22.22	23.0
40	QPSK	108	54	23.00	23.07	22.97	24.0
40	QPSK	108	108	22.25	22.41	22.32	23.0
40	QPSK	216	0	22.22	22.38	22.22	23.0
40	16QAM	1	1	22.28	22.39	22.31	23.0
40	64QAM	1	1	20.57	20.66	20.61	21.5
40	256QAM	1	1	19.25	19.38	19.32	19.5
Channel				503000	507000	510000	
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	23.48	23.38	23.25	24.0
Channel				502500	507000	511500	
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	23.38	23.26	23.28	24.0
Channel				502000	507000	512000	
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	23.22	23.06	23.05	24.0
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.16	23.12	22.97	24.0
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.33	23.22	23.19	24.0
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.37	23.14	23.07	24.0

n7_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel				504000	507000	510000	
Frequency (MHz)				2520	2535	2550	
40	PI/2 BPSK	1	1	22.93	22.94	22.79	
40	PI/2 BPSK	1	108	22.90	22.75	22.81	
40	PI/2 BPSK	1	214	22.89	22.81	22.73	
40	PI/2 BPSK	108	0	22.78	22.73	22.75	23.5
40	PI/2 BPSK	108	54	22.75	22.83	22.74	24.0
40	PI/2 BPSK	108	108	22.81	22.81	22.65	23.5
40	PI/2 BPSK	216	0	22.83	22.94	22.79	24.0
40	QPSK	1	1	22.45	22.59	22.54	
40	QPSK	1	108	22.85	22.91	22.84	24.0
40	QPSK	1	214	22.84	22.91	22.76	
40	QPSK	108	0	21.51	21.83	21.57	23.0
40	QPSK	108	54	22.67	22.75	22.65	24.0
40	QPSK	108	108	22.26	22.40	22.30	23.0
40	QPSK	216	0	22.20	22.34	22.18	23.0
40	16QAM	1	1	21.15	21.29	21.17	23.0
40	64QAM	1	1	20.02	20.12	20.03	21.5
40	256QAM	1	1	18.88	19.02	18.96	19.5
Channel				503000	507000	510000	
Frequency (MHz)				2515	2535	2555	
30	PI/2 BPSK	1	1	22.92	22.80	22.88	24.0
Channel				502500	507000	511500	
Frequency (MHz)				2512.5	2535	2557.5	
25	PI/2 BPSK	1	1	22.92	22.87	22.85	24.0
Channel				502000	507000	512000	
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	22.78	22.66	22.69	24.0
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	22.73	22.62	22.65	24.0
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	22.86	22.81	22.69	24.0
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	22.84	22.83	22.75	24.0



### n66\_Ant 0

BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	349000	353000		
Frequency (MHz)				1720	1745	1760		
40	PI/2 BPSK	1	1	23.40	23.45	23.28		
40	PI/2 BPSK	1	108	23.31	23.39	23.24	24.0	0.0
40	PI/2 BPSK	1	214	23.34	23.27	23.11		
40	PI/2 BPSK	108	0	22.76	22.74	22.74	23.5	0.5
40	PI/2 BPSK	108	54	23.22	23.23	23.19	24.0	0.0
40	PI/2 BPSK	108	108	22.88	22.78	22.69	23.5	0.5
40	PI/2 BPSK	216	0	22.77	22.81	22.70		
40	QPSK	1	1	23.17	23.26	23.17		
40	QPSK	1	108	23.14	23.29	23.23	24.0	0.0
40	QPSK	1	214	23.13	23.24	23.10		
40	QPSK	108	0	22.12	22.26	22.16	23.0	1.0
40	QPSK	108	54	23.11	23.21	23.15	24.0	0.0
40	QPSK	108	108	22.16	22.29	22.16	23.0	1.0
40	QPSK	216	0	22.17	22.25	22.17		
40	16QAM	1	1	22.15	22.23	22.09	23.0	1.0
40	64QAM	1	1	20.44	20.49	20.36	21.5	2.5
40	256QAM	1	1	18.83	18.69	18.58	19.5	4.5
Channel				345000	349000	353000		
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	23.37	23.33	23.34	24.0	0.0
Channel				345000	349000	353000		
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	23.45	23.29	23.16	24.0	0.0
Channel				343900	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5		
15	PI/2 BPSK	1	1	23.38	23.36	23.19	24.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	23.31	23.32	23.09	24.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	23.22	23.41	23.09	24.0	0.0



n38_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				518004	519000	519996		
Frequency (MHz)				2580.02	2595	2599.98		
40	PI/2 BPSK	1	1	23.17	23.29	23.17		
40	PI/2 BPSK	1	53	23.20	23.19	23.26	24.0	0.0
40	PI/2 BPSK	1	104	23.21	23.15	23.19		
40	PI/2 BPSK	50	0	22.66	22.66	22.71	23.5	0.5
40	PI/2 BPSK	50	28	23.22	23.28	23.27	24.0	0.0
40	PI/2 BPSK	50	56	22.76	22.78	22.75		
40	PI/2 BPSK	100	0	22.74	22.76	22.67	23.5	0.5
40	QPSK	1	1	23.01	23.11	22.98		
40	QPSK	1	53	23.06	23.17	23.04	24.0	0.0
40	QPSK	1	104	23.26	23.12	23.16		
40	QPSK	50	0	22.04	22.17	22.03		
40	QPSK	50	28	23.08	23.16	23.07	24.0	0.0
40	QPSK	50	56	22.17	22.25	22.09		
40	QPSK	100	0	22.05	22.17	22.02	23.0	1.0
40	16QAM	1	1	22.22	22.29	22.15	23.0	1.0
40	64QAM	1	1	20.13	20.23	20.17	21.5	2.5
40	256QAM	1	1	18.90	19.01	18.89	19.5	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	PI/2 BPSK	1	1	23.18	23.13	23.18	24.0	0.0
Channel				516000	519000	520000		
Frequency (MHz)				2580	2595	2610		
20	PI/2 BPSK	1	1	23.16	23.16	23.03	24.0	0.0

n78(Part 27Q)_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel						633332		
Frequency (MHz)						3499.98		
100	PI/2 BPSK	1	1			23.32		
100	PI/2 BPSK	1	137			23.31	24.0	0.0
100	PI/2 BPSK	1	274			23.23		
100	PI/2 BPSK	135	0			23.21	23.5	0.5
100	PI/2 BPSK	135	69			23.25	24.0	0.0
100	PI/2 BPSK	135	138			23.17	23.5	0.5
100	PI/2 BPSK	270	0			23.27		
100	QPSK	1	1			23.35		
100	QPSK	1	137			23.35	24.0	0.0
100	QPSK	1	274			23.33		
100	QPSK	135	0			23.27		
100	QPSK	135	69			23.28	24.0	0.0
100	QPSK	135	138			23.11		
100	QPSK	270	0			21.75	23.0	1.0
100	16QAM	1	1			21.91	23.0	1.0
100	64QAM	1	1			21.19	21.5	2.5
100	256QAM	1	1			19.34	19.5	4.5
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	23.28	23.30	23.34	24.0	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3489.02	3499.98	3510		
80	PI/2 BPSK	1	1	23.35	23.31	23.26	24.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	23.36	23.36	23.28	24.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	23.27	23.27	23.29	24.0	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	23.33	23.28	23.32	24.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	23.30	23.28	23.28	24.0	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.98		
30	PI/2 BPSK	1	1	23.27	23.28	23.33	24.0	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	23.27	23.28	23.26	24.0	0.0





n78(Part 27Q) HPUE_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	23.17					
100	PI/2 BPSK	1	137	26.11			27.0	0.0	
100	PI/2 BPSK	1	271	26.02					
100	PI/2 BPSK	135	0	25.05			26.5	0.5	
100	PI/2 BPSK	135	69	26.03			27.0	0.0	
100	PI/2 BPSK	135	138	24.94			26.5	0.5	
100	PI/2 BPSK	270	0	25.07					
100	QPSK	1	1	25.52					
100	QPSK	1	137	26.10			27.0	0.0	
100	QPSK	1	271	26.08					
100	QPSK	135	0	25.21					
100	QPSK	135	69	26.06			27.0	0.0	
100	QPSK	135	138	25.23					
100	QPSK	270	0	24.51			26.0	1.0	
100	16QAM	1	1	24.57			26.0	1.0	
100	64QAM	1	1	22.93			24.5	2.5	
100	256QAM	1	1	21.17			22.5	4.5	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99	27.0	0.0	
90	PI/2 BPSK	1	1	26.04	26.04	26.08	27.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3492.02	3499.98	3510	27.0	0.0	
80	PI/2 BPSK	1	1	26.09	26.07	26.09	27.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98	27.0	0.0	
70	PI/2 BPSK	1	1	26.11	26.11	26.02	27.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99	27.0	0.0	
60	PI/2 BPSK	1	1	26.05	26.03	26.09	27.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525	27.0	0.0	
50	PI/2 BPSK	1	1	26.11	26.08	26.10	27.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98	27.0	0.0	
40	PI/2 BPSK	1	1	26.07	26.03	26.06	27.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99	27.0	0.0	
30	PI/2 BPSK	1	1	26.05	26.04	26.10	27.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540	27.0	0.0	
20	PI/2 BPSK	1	1	26.04	26.03	26.01	27.0	0.0	

n78(Part 27Q)_Ant 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				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	23.10					
100	PI/2 BPSK	1	137	22.99			24.0	0.0	
100	PI/2 BPSK	1	271	23.02					
100	PI/2 BPSK	135	0	23.05			23.5	0.5	
100	PI/2 BPSK	135	69	23.06			24.0	0.0	
100	PI/2 BPSK	135	138	23.01			23.5	0.5	
100	PI/2 BPSK	270	0	23.05					
100	QPSK	1	1	22.93					
100	QPSK	1	137	23.03			24.0	0.0	
100	QPSK	1	271	23.01					
100	QPSK	135	0	22.97					
100	QPSK	135	69	22.96			24.0	0.0	
100	QPSK	135	138	22.95					
100	QPSK	270	0	22.99			23.0	1.0	
100	16QAM	1	1	22.59			23.0	1.0	
100	64QAM	1	1	21.48			21.5	2.5	
100	256QAM	1	1	19.41			19.5	4.5	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99	24.0	0.0	
90	PI/2 BPSK	1	1	22.91	23.04	22.97	24.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3492.02	3499.98	3510	24.0	0.0	
80	PI/2 BPSK	1	1	22.96	22.98	22.96	24.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98	24.0	0.0	
70	PI/2 BPSK	1	1	23.03	22.95	22.92	24.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99	24.0	0.0	
60	PI/2 BPSK	1	1	23.01	23.03	22.91	24.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525	24.0	0.0	
50	PI/2 BPSK	1	1	23.00	22.90	22.95	24.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98	24.0	0.0	
40	PI/2 BPSK	1	1	23.07	23.00	22.94	24.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99	24.0	0.0	
30	PI/2 BPSK	1	1	23.01	22.97	22.89	24.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540	24.0	0.0	
20	PI/2 BPSK	1	1	23.00	22.92	22.92	24.0	0.0	



n78(Part 27Q) HPUE_Ant 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				633332				
Frequency (MHz)				3499.98				
100	PI/2 BPSK	1	1	26.03				
100	PI/2 BPSK	1	137	25.98			27.0	0.0
100	PI/2 BPSK	1	271	25.98				
100	PI/2 BPSK	135	0	24.90			26.5	0.5
100	PI/2 BPSK	135	69	26.01			27.0	0.0
100	PI/2 BPSK	135	138	24.88			26.5	0.5
100	PI/2 BPSK	270	0	24.90				
100	QPSK	1	1	25.86				
100	QPSK	1	137	25.84			27.0	0.0
100	QPSK	1	271	25.90				
100	QPSK	135	0	25.21				
100	QPSK	135	69	25.95			27.0	0.0
100	QPSK	135	138	25.23				
100	QPSK	270	0	24.40			26.0	1.0
100	16QAM	1	1	24.03			26.0	1.0
100	64QAM	1	1	22.70			24.5	2.5
100	256QAM	1	1	20.86			22.5	4.5
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99	27.0	0.0
90	PI/2 BPSK	1	1	26.03	25.89	25.90	27.0	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3492.02	3499.98	3510	27.0	0.0
80	PI/2 BPSK	1	1	25.97	25.91	25.89	27.0	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98	27.0	0.0
70	PI/2 BPSK	1	1	25.95	25.93	25.87	27.0	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99	27.0	0.0
60	PI/2 BPSK	1	1	26.02	25.84	25.90	27.0	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525	27.0	0.0
50	PI/2 BPSK	1	1	25.98	25.88	25.94	27.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98	27.0	0.0
40	PI/2 BPSK	1	1	26.00	25.90	25.87	27.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99	27.0	0.0
30	PI/2 BPSK	1	1	26.01	25.87	25.93	27.0	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540	27.0	0.0
20	PI/2 BPSK	1	1	26.00	25.91	25.84	27.0	0.0

n78(Part 27Q)_Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332				
Frequency (MHz)				3499.98				
100	PI/2 BPSK	1	1	23.08				
100	PI/2 BPSK	1	137	23.03			24.0	0.0
100	PI/2 BPSK	1	271	23.00				
100	PI/2 BPSK	135	0	22.99			23.5	0.5
100	PI/2 BPSK	135	69	23.03			24.0	0.0
100	PI/2 BPSK	135	138	23.02			23.5	0.5
100	PI/2 BPSK	270	0	22.96				
100	QPSK	1	1	22.98				
100	QPSK	1	137	22.98			24.0	0.0
100	QPSK	1	271	22.62				
100	QPSK	135	0	22.57				
100	QPSK	135	69	22.56			24.0	0.0
100	QPSK	135	138	22.58				
100	QPSK	270	0	22.60			23.0	1.0
100	16QAM	1	1	22.18			23.0	1.0
100	64QAM	1	1	21.35			21.5	2.5
100	256QAM	1	1	19.94			19.5	4.5
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99	24.0	0.0
90	PI/2 BPSK	1	1	22.60	23.01	22.68	24.0	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3492.02	3499.98	3510	24.0	0.0
80	PI/2 BPSK	1	1	22.60	22.94	22.60	24.0	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98	24.0	0.0
70	PI/2 BPSK	1	1	22.55	22.99	22.61	24.0	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99	24.0	0.0
60	PI/2 BPSK	1	1	22.55	22.98	22.81	24.0	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525	24.0	0.0
50	PI/2 BPSK	1	1	22.49	22.97	22.63	24.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98	24.0	0.0
40	PI/2 BPSK	1	1	22.61	23.02	22.62	24.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99	24.0	0.0
30	PI/2 BPSK	1	1	22.57	22.91	22.67	24.0	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540	24.0	0.0
20	PI/2 BPSK	1	1	22.57	22.93	22.65	24.0	0.0



n78(Part 27Q) HPUE_Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332				
Frequency (MHz)				3499.98				
100	PI/2 BPSK	1	1	25.81				
100	PI/2 BPSK	1	137	25.78			27.0	0.0
100	PI/2 BPSK	1	271	25.71				
100	PI/2 BPSK	135	0	24.84			26.5	0.5
100	PI/2 BPSK	135	69	25.74			27.0	0.0
100	PI/2 BPSK	135	138	24.80			26.5	0.5
100	PI/2 BPSK	270	0	24.83				
100	QPSK	1	1	25.54				
100	QPSK	1	137	25.38			27.0	0.0
100	QPSK	1	271	25.50				
100	QPSK	135	0	25.21				
100	QPSK	135	69	25.42			27.0	0.0
100	QPSK	135	138	25.32				
100	QPSK	270	0	24.27			26.0	1.0
100	16QAM	1	1	24.01			26.0	1.0
100	64QAM	1	1	22.52			24.5	2.5
100	256QAM	1	1	20.59			22.5	4.5
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	25.21	25.67	25.34	27.0	0.0
Channel				632688	633332	634000		
Frequency (MHz)				3492.02	3499.98	3510		
80	PI/2 BPSK	1	1	25.29	25.63	25.35	27.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	25.27	25.61	25.33	27.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	25.29	25.68	25.31	27.0	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	25.30	25.62	25.34	27.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	25.28	25.67	25.40	27.0	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	25.27	25.62	25.37	27.0	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	25.27	25.73	25.30	27.0	0.0

n78(Part 27Q)_Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332				
Frequency (MHz)				3499.98				
100	PI/2 BPSK	1	1	22.65				
100	PI/2 BPSK	1	137	22.40			24.0	0.0
100	PI/2 BPSK	1	271	22.32				
100	PI/2 BPSK	135	0	22.18			23.5	0.5
100	PI/2 BPSK	135	69	22.37			24.0	0.0
100	PI/2 BPSK	135	138	22.06			23.5	0.5
100	PI/2 BPSK	270	0	21.98				
100	QPSK	1	1	22.02				
100	QPSK	1	137	22.05			24.0	0.0
100	QPSK	1	271	22.06				
100	QPSK	135	0	22.03				
100	QPSK	135	69	22.08			24.0	0.0
100	QPSK	135	138	22.06				
100	QPSK	270	0	21.15			23.0	1.0
100	16QAM	1	1	21.12			23.0	1.0
100	64QAM	1	1	19.98			21.5	2.5
100	256QAM	1	1	18.38			19.5	4.5
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	22.58	22.62	22.53	24.0	0.0
Channel				632688	633332	634000		
Frequency (MHz)				3492.02	3499.98	3510		
80	PI/2 BPSK	1	1	22.50	22.55	22.46	24.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	22.49	22.50	22.47	24.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	22.45	22.53	22.43	24.0	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	22.46	22.52	22.40	24.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	22.52	22.54	22.39	24.0	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	22.51	22.50	22.40	24.0	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	22.46	22.54	22.42	24.0	0.0



### n78(Part 27Q) HPUE\_Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
100	PI/2 BPSK	1	1	23.32	23.32	23.32	25.0	0.0
100	PI/2 BPSK	1	137	23.31	23.31	23.31	25.0	0.0
100	PI/2 BPSK	1	271	23.21	23.21	23.21	25.0	0.0
100	PI/2 BPSK	135	0	22.91	22.91	22.91	24.5	0.5
100	PI/2 BPSK	135	69	23.28	23.28	23.28	25.0	0.0
100	PI/2 BPSK	135	138	22.96	22.96	22.96	24.5	0.5
100	PI/2 BPSK	270	0	22.88	22.88	22.88	24.5	0.5
100	QPSK	1	1	23.01	23.01	23.01	25.0	0.0
100	QPSK	1	137	23.05	23.05	23.05	25.0	0.0
100	QPSK	1	271	23.08	23.08	23.08	25.0	0.0
100	QPSK	135	0	23.08	23.08	23.08	25.0	0.0
100	QPSK	135	69	23.06	23.06	23.06	25.0	0.0
100	QPSK	135	138	23.05	23.05	23.05	25.0	0.0
100	QPSK	270	0	22.12	22.12	22.12	24.0	1.0
100	16QAM	1	1	22.01	22.01	22.01	24.0	1.0
100	64QAM	1	1	20.98	20.98	20.98	22.5	2.5
100	256QAM	1	1	20.16	20.16	20.16	20.5	4.5
Channel				630000	633332	636666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	23.23	23.23	23.21	25.0	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3499.92	3499.98	3510		
80	PI/2 BPSK	1	1	23.10	23.23	23.11	25.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3486.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	23.14	23.18	23.16	25.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3490	3499.98	3519.99		
60	PI/2 BPSK	1	1	23.14	23.17	23.05	25.0	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	23.09	23.22	23.10	25.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	23.11	23.23	23.05	25.0	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	23.17	23.12	23.09	25.0	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	23.11	23.16	23.07	25.0	0.0



Reduced Power DSI2-Standalone

n2_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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	23.08	23.29	23.12			
20	PI/2 BPSK	1	53	23.06	23.17	23.03	24.0	0.0	
20	PI/2 BPSK	1	104	23.05	23.13	22.93			
20	PI/2 BPSK	50	0	22.61	22.68	22.54	23.5	0.5	
20	PI/2 BPSK	50	28	23.09	23.16	23.02	24.0	0.0	
20	PI/2 BPSK	50	56	22.59	22.66	22.49			
20	PI/2 BPSK	100	0	22.63	22.68	22.53	23.5	0.5	
20	QPSK	1	1	23.09	23.16	23.02			
20	QPSK	1	53	23.07	23.20	22.87	24.0	0.0	
20	QPSK	1	104	23.11	23.13	22.88			
20	QPSK	50	0	22.12	22.17	22.04	23.0	1.0	
20	QPSK	50	28	23.07	23.17	23.05	24.0	0.0	
20	QPSK	50	56	22.03	22.13	21.89			
20	QPSK	100	0	22.11	22.20	22.05	23.0	1.0	
20	16QAM	1	1	22.02	22.07	22.05	23.0	1.0	
20	64QAM	1	1	20.57	20.55	20.13	21.5	2.5	
20	256QAM	1	1	18.84	18.89	18.70	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	PI/2 BPSK	1	1	23.25	23.28	23.02	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1855	1880	1905			
10	PI/2 BPSK	1	1	23.12	23.23	22.94	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1852.5	1880	1907.5			
5	PI/2 BPSK	1	1	23.16	23.26	23.01	24.0	0.0	

n5_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				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	23.11	23.19	23.02			
20	PI/2 BPSK	1	53	22.97	22.87	22.91	24.0	0.0	
20	PI/2 BPSK	1	104	22.97	22.76	22.81			
20	PI/2 BPSK	50	0	22.52	22.48	22.45	23.5	0.5	
20	PI/2 BPSK	50	28	22.93	22.94	22.91	24.0	0.0	
20	PI/2 BPSK	50	56	22.38	22.35	22.32			
20	PI/2 BPSK	100	0	22.47	22.48	22.46	23.5	0.5	
20	QPSK	1	1	22.89	23.03	22.91			
20	QPSK	1	53	22.77	22.92	22.77	24.0	0.0	
20	QPSK	1	104	22.66	22.77	22.62			
20	QPSK	50	0	21.79	21.95	21.84	23.0	1.0	
20	QPSK	50	28	22.76	22.88	22.76	24.0	0.0	
20	QPSK	50	56	21.68	21.84	21.78			
20	QPSK	100	0	21.89	21.97	21.82	23.0	1.0	
20	16QAM	1	1	22.05	22.21	22.05	23.0	1.0	
20	64QAM	1	1	20.18	20.23	20.17	21.5	2.5	
20	256QAM	1	1	18.66	18.76	18.65	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				831.5	836.5	841.5			
15	PI/2 BPSK	1	1	23.07	23.18	23.01	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR	
Frequency (MHz)				829	836.5	844			
10	PI/2 BPSK	1	1	23.04	22.89	22.96	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				826.5	836.5	846.5			
5	PI/2 BPSK	1	1	23.11	23.02	22.96	24.0	0.0	



n7_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	23.43	23.49	23.24			
40	PI/2 BPSK	1	108	23.44	23.33	23.23	24.0	0.0	
40	PI/2 BPSK	1	214	23.35	23.29	23.12			
40	PI/2 BPSK	108	0	23.01	22.82	22.84	23.5	0.5	
40	PI/2 BPSK	108	54	23.12	23.13	23.11	24.0	0.0	
40	PI/2 BPSK	108	108	22.84	22.93	22.83			
40	PI/2 BPSK	216	0	22.85	22.89	22.88	23.5	0.5	
40	QPSK	1	1	23.39	23.46	23.37			
40	QPSK	1	108	23.05	23.14	22.98	24.0	0.0	
40	QPSK	1	214	23.21	23.31	23.19			
40	QPSK	108	0	22.30	22.36	22.22	23.0	1.0	
40	QPSK	108	54	23.00	23.07	22.97	24.0	0.0	
40	QPSK	108	108	22.25	22.41	22.32			
40	QPSK	216	0	22.22	22.38	22.22	23.0	1.0	
40	16QAM	1	1	22.28	22.39	22.31	23.0	1.0	
40	16QAM	1	1	20.57	20.66	20.61	21.5	2.5	
40	256QAM	1	1	19.25	19.38	19.32	19.5	4.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI/2 BPSK	1	1	23.48	23.38	23.25	24.0	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	23.36	23.26	23.23	24.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	23.22	23.06	23.05	24.0	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	23.16	23.12	22.97	24.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI/2 BPSK	1	1	23.33	23.22	23.19	24.0	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	23.37	23.14	23.07	24.0	0.0	

n7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	18.26	18.31	18.15			
40	PI/2 BPSK	1	108	18.20	18.25	18.22	19.5	0.0	
40	PI/2 BPSK	1	214	18.15	18.19	18.26			
40	PI/2 BPSK	108	0	17.88	18.10	18.08	19.5	0.0	
40	PI/2 BPSK	108	54	18.23	18.30	18.14	19.5	0.0	
40	PI/2 BPSK	108	108	17.80	18.06	18.05			
40	PI/2 BPSK	216	0	18.20	18.28	18.12	19.5	0.0	
40	QPSK	1	1	17.88	18.13	17.89			
40	QPSK	1	108	17.84	18.12	18.12	19.5	0.0	
40	QPSK	1	214	18.09	18.14	17.91			
40	QPSK	108	0	17.82	18.09	18.15	18.5	1.0	
40	QPSK	108	54	18.06	18.06	18.00	19.5	0.0	
40	QPSK	108	108	18.21	18.13	18.11			
40	QPSK	216	0	17.93	18.07	18.03	18.5	1.0	
40	16QAM	1	1	18.11	18.29	18.28	19.5	0.0	
40	16QAM	1	1	18.06	18.06	17.82	19.5	0.0	
40	256QAM	1	1	18.30	18.28	18.03	19.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI/2 BPSK	1	1	18.24	18.21	17.93	19.5	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	18.10	18.23	18.03	19.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	18.22	18.15	18.14	19.5	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	18.14	18.06	18.03	19.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI/2 BPSK	1	1	18.03	18.28	18.23	19.5	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	18.29	18.11	18.18	19.5	0.0	



### n66\_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	23.40	23.48	23.28		
40	PI/2 BPSK	1	108	23.31	23.39	23.24	24.0	0.0
40	PI/2 BPSK	1	214	23.34	23.27	23.11		
40	PI/2 BPSK	108	0	22.76	22.74	22.74	23.5	0.5
40	PI/2 BPSK	108	54	23.22	23.23	23.19	24.0	0.0
40	PI/2 BPSK	108	108	22.88	22.78	22.89		
40	PI/2 BPSK	216	0	22.77	22.81	22.70	23.5	0.5
40	QPSK	1	1	23.17	23.26	23.17		
40	QPSK	1	108	23.14	23.29	23.23	24.0	0.0
40	QPSK	1	214	23.13	23.24	23.10		
40	QPSK	108	0	22.12	22.26	22.16	23.0	1.0
40	QPSK	108	54	23.11	23.21	23.15	24.0	0.0
40	QPSK	108	108	22.16	22.29	22.16		
40	QPSK	216	0	22.17	22.25	22.17	23.0	1.0
40	16QAM	1	1	22.15	22.23	22.09	23.0	1.0
40	64QAM	1	1	20.44	20.49	20.36	21.5	2.5
40	256QAM	1	1	18.53	18.59	18.55	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	23.37	23.33	23.34	24.0	0.0
Channel				344000	349000	354000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	23.45	23.29	23.16	24.0	0.0
Channel				343500	349000	354500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI/2 BPSK	1	1	23.38	23.36	23.19	24.0	0.0
Channel				343000	349000	355000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	23.31	23.32	23.09	24.0	0.0
Channel				342500	349000	355500	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	23.22	23.41	23.09	24.0	0.0



n38_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				518004	519000	519996		
Frequency (MHz)				2580.02	2595	2599.98		
40	PI/2 BPSK	1	1	23.17	23.29	23.17	24.0	0.0
40	PI/2 BPSK	1	53	23.20	23.19	23.26		
40	PI/2 BPSK	1	104	23.21	23.15	23.19		
40	PI/2 BPSK	50	0	22.66	22.66	22.71	23.5	0.5
40	PI/2 BPSK	50	28	23.22	23.28	23.27	24.0	0.0
40	PI/2 BPSK	50	56	22.76	22.78	22.75		
40	PI/2 BPSK	100	0	22.74	22.76	22.67	23.5	0.5
40	QPSK	1	1	23.01	23.11	22.98		
40	QPSK	1	53	23.06	23.17	23.04	24.0	0.0
40	QPSK	1	104	23.26	23.12	23.16		
40	QPSK	50	0	22.04	22.17	22.03		
40	QPSK	50	28	23.08	23.16	23.07	24.0	0.0
40	QPSK	50	56	22.17	22.25	22.09		
40	QPSK	100	0	22.05	22.17	22.02	23.0	1.0
40	16QAM	1	1	22.22	22.29	22.15	23.0	1.0
40	64QAM	1	1	20.13	20.23	20.17	21.5	2.5
40	256QAM	1	1	18.90	19.01	18.89	19.5	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	PI/2 BPSK	1	1	23.18	23.13	23.18	24.0	0.0
Channel				516000	519000	522000		
Frequency (MHz)				2580	2595	2610		
20	PI/2 BPSK	1	1	23.16	23.16	23.03	24.0	0.0

n78(Part 27Q)_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel						633332		
Frequency (MHz)						3199.98		
100	PI/2 BPSK	1	1			18.72		
100	PI/2 BPSK	1	137			18.65		
100	PI/2 BPSK	1	271			18.69	19.5	0.0
100	PI/2 BPSK	135	0			18.66		0.0
100	PI/2 BPSK	135	69			18.70	19.5	0.0
100	PI/2 BPSK	135	138			18.65		0.0
100	PI/2 BPSK	270	0			18.69	19.5	0.0
100	QPSK	1	1			18.67		
100	QPSK	1	137			18.70	19.5	0.0
100	QPSK	1	271			18.59		
100	QPSK	135	0			18.66		
100	QPSK	135	69			18.70	19.5	0.0
100	QPSK	135	138			18.66		
100	QPSK	270	0			18.62	19.5	0.0
100	16QAM	1	1			18.64	19.5	0.0
100	64QAM	1	1			18.54	19.5	0.0
100	256QAM	1	1			18.71	19.5	0.0
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	18.70	18.66	18.62	19.5	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3480.02	3499.98	3518		
80	PI/2 BPSK	1	1	18.51	18.69	18.65	19.5	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	18.60	18.58	18.48	19.5	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3518.99		
60	PI/2 BPSK	1	1	18.45	18.63	18.60	19.5	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	18.65	18.71	18.56	19.5	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	18.63	18.66	18.56	19.5	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.98		
30	PI/2 BPSK	1	1	18.50	18.60	18.64	19.5	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	18.53	18.63	18.57	19.5	0.0





n78(Part 27Q) HPUE_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	18.72					
100	PI/2 BPSK	1	137	18.65			19.5	0.0	
100	PI/2 BPSK	1	271	18.69					
100	PI/2 BPSK	135	0	18.66			19.5	0.0	
100	PI/2 BPSK	135	69	18.70			19.5	0.0	
100	PI/2 BPSK	135	138	18.65					
100	PI/2 BPSK	270	0	18.69			19.5	0.0	
100	QPSK	1	1	18.57					
100	QPSK	1	137	18.70			19.5	0.0	
100	QPSK	1	271	18.59					
100	QPSK	135	0	18.66					
100	QPSK	135	69	18.70			19.5	0.0	
100	QPSK	135	138	18.66					
100	QPSK	270	0	18.62			19.5	0.0	
100	16QAM	1	1	18.64			19.5	0.0	
100	64QAM	1	1	18.54			19.5	0.0	
100	256QAM	1	1	18.71			19.5	0.0	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	18.70	18.66	18.62	19.5	0.0	
Channel				632668	633332	634000			
Frequency (MHz)				3499.02	3499.98	3510			
80	PI/2 BPSK	1	1	18.51	18.69	18.65	19.5	0.0	
Channel				632334	633332	634332			
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	18.60	18.58	18.48	19.5	0.0	
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	18.45	18.63	18.50	19.5	0.0	
Channel				631668	633332	635000			
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	18.65	18.71	18.56	19.5	0.0	
Channel				631334	633332	635332			
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	18.63	18.66	18.58	19.5	0.0	
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3534.99			
30	PI/2 BPSK	1	1	18.50	18.60	18.64	19.5	0.0	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	18.53	18.63	18.57	19.5	0.0	

n78(Part 27Q)_Ant 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				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	18.62					
100	PI/2 BPSK	1	137	18.56			19.5	0.0	
100	PI/2 BPSK	1	271	18.60					
100	PI/2 BPSK	135	0	18.49			19.5	0.0	
100	PI/2 BPSK	135	69	18.59			19.5	0.0	
100	PI/2 BPSK	135	138	18.56					
100	PI/2 BPSK	270	0	18.57			19.5	0.0	
100	QPSK	1	1	18.56					
100	QPSK	1	137	18.59			19.5	0.0	
100	QPSK	1	271	18.58					
100	QPSK	135	0	18.46					
100	QPSK	135	69	18.41			19.5	0.0	
100	QPSK	135	138	18.47					
100	QPSK	270	0	18.59			19.5	0.0	
100	16QAM	1	1	18.55			19.5	0.0	
100	64QAM	1	1	18.45			19.5	0.0	
100	256QAM	1	1	18.58			19.5	0.0	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	18.31	18.37	18.53	19.5	0.0	
Channel				632668	633332	634000			
Frequency (MHz)				3492.02	3499.98	3510			
80	PI/2 BPSK	1	1	18.09	18.61	18.30	19.5	0.0	
Channel				632334	633332	634332			
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	18.17	18.49	18.47	19.5	0.0	
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	18.07	18.41	18.43	19.5	0.0	
Channel				631668	633332	635000			
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	18.09	18.40	18.38	19.5	0.0	
Channel				631334	633332	635332			
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	18.14	18.37	18.37	19.5	0.0	
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3534.99			
30	PI/2 BPSK	1	1	18.37	18.47	18.32	19.5	0.0	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	18.19	18.59	18.43	19.5	0.0	



n78(Part 27Q) HPUE_Ant 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				633332	633332	633332			
Frequency (MHz)				3499.98	3499.98	3499.98			
100	PI/2 BPSK	1	1	18.31	18.37	18.53	19.5	0.0	
100	PI/2 BPSK	1	137	18.56	18.60	18.60	19.5	0.0	
100	PI/2 BPSK	1	271	18.60	18.60	18.60	19.5	0.0	
100	PI/2 BPSK	135	0	18.49	18.59	18.59	19.5	0.0	
100	PI/2 BPSK	135	69	18.59	18.56	18.56	19.5	0.0	
100	PI/2 BPSK	135	138	18.56	18.57	18.57	19.5	0.0	
100	QPSK	1	1	18.56	18.56	18.56	19.5	0.0	
100	QPSK	1	137	18.59	18.58	18.58	19.5	0.0	
100	QPSK	1	271	18.58	18.46	18.46	19.5	0.0	
100	QPSK	135	0	18.46	18.41	18.41	19.5	0.0	
100	QPSK	135	69	18.41	18.47	18.47	19.5	0.0	
100	QPSK	135	138	18.47	18.59	18.59	19.5	0.0	
100	QPSK	270	0	18.59	18.55	18.55	19.5	0.0	
100	16QAM	1	1	18.55	18.45	18.45	19.5	0.0	
100	64QAM	1	1	18.45	18.58	18.58	19.5	0.0	
100	256QAM	1	1	18.58	633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Channel				3495	3499.98	3504.99			
Frequency (MHz)				18.31	18.37	18.53	19.5	0.0	
90	PI/2 BPSK	1	1	18.31	18.37	18.53	19.5	0.0	
Channel				632688	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3492.02	3499.98	3510			
80	PI/2 BPSK	1	1	18.09	18.61	18.30	19.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	18.17	18.49	18.47	19.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3518.98			
60	PI/2 BPSK	1	1	18.07	18.41	18.43	19.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	18.09	18.40	18.38	19.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	18.14	18.37	18.37	19.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	PI/2 BPSK	1	1	18.37	18.47	18.32	19.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	18.19	18.59	18.43	19.5	0.0	

n78(Part 27Q)_Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332	633332		
Frequency (MHz)				3499.98	3499.98	3499.98		
100	PI/2 BPSK	1	1	18.15	18.15	18.15	19.0	0.0
100	PI/2 BPSK	1	137	18.09	18.13	18.13	19.0	0.0
100	PI/2 BPSK	1	271	18.13	18.12	18.12	19.0	0.0
100	PI/2 BPSK	135	0	18.12	18.13	18.13	19.0	0.0
100	PI/2 BPSK	135	69	18.13	18.01	18.01	19.0	0.0
100	PI/2 BPSK	135	138	18.01	18.12	18.12	19.0	0.0
100	QPSK	1	1	18.02	18.10	18.10	19.0	0.0
100	QPSK	1	137	18.10	18.08	18.08	19.0	0.0
100	QPSK	1	271	18.08	17.99	17.99	19.0	0.0
100	QPSK	135	0	17.99	18.00	18.00	19.0	0.0
100	QPSK	135	69	18.00	17.98	17.98	19.0	0.0
100	QPSK	135	138	17.98	17.94	17.94	19.0	0.0
100	16QAM	1	1	17.94	17.97	17.97	19.0	0.0
100	64QAM	1	1	17.97	17.81	17.81	19.0	0.0
100	256QAM	1	1	17.81	18.08	18.08	19.0	0.0
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	17.68	17.97	17.78	19.0	0.0
Channel				632688	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3492.02	3499.98	3510		
80	PI/2 BPSK	1	1	17.86	18.13	18.11	19.0	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	17.56	18.02	18.06	19.0	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3518.98		
60	PI/2 BPSK	1	1	17.89	17.86	17.86	19.0	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	17.66	18.00	17.86	19.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	17.87	17.83	17.89	19.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	17.80	18.10	17.78	19.0	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	17.85	17.99	18.00	19.0	0.0



n78(Part 27Q) HPUE_Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332			
Frequency (MHz)				3499.98	18.15			
100	PI/2 BPSK	1	1	17.85	17.85	18.00	19.0	0.0
100	PI/2 BPSK	1	137	18.09	18.09	18.13		
100	PI/2 BPSK	1	271	18.13	18.13	18.13		
100	PI/2 BPSK	135	0	18.12	18.12	18.12	19.0	0.0
100	PI/2 BPSK	135	69	18.13	18.13	18.13	19.0	0.0
100	PI/2 BPSK	135	138	18.01	18.01	18.01	19.0	0.0
100	PI/2 BPSK	270	0	18.12	18.12	18.12	19.0	0.0
100	QPSK	1	1	18.02	18.02	18.02	19.0	0.0
100	QPSK	1	137	18.10	18.10	18.10	19.0	0.0
100	QPSK	1	271	18.08	18.08	18.08	19.0	0.0
100	QPSK	135	0	17.99	17.99	17.99	19.0	0.0
100	QPSK	135	69	18.00	18.00	18.00	19.0	0.0
100	QPSK	135	138	17.98	17.98	17.98	19.0	0.0
100	QPSK	270	0	17.94	17.94	17.94	19.0	0.0
100	16QAM	1	1	17.97	17.97	17.97	19.0	0.0
100	64QAM	1	1	17.91	17.91	17.91	19.0	0.0
100	256QAM	1	1	18.08	18.08	18.08	19.0	0.0
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	17.68	17.97	17.78	19.0	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3492.02	3499.98	3510		
80	PI/2 BPSK	1	1	17.96	18.13	18.11	19.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	17.56	18.02	18.06	19.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	17.68	17.86	17.88	19.0	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	17.66	18.00	17.86	19.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	17.87	17.83	17.89	19.0	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.98		
30	PI/2 BPSK	1	1	17.80	18.10	17.78	19.0	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	17.85	17.99	18.00	19.0	0.0

n78(Part 27Q)_Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332			
Frequency (MHz)				3499.98	22.65			
100	PI/2 BPSK	1	1	22.40	22.40	22.40	24.0	0.0
100	PI/2 BPSK	1	137	22.40	22.40	22.40		
100	PI/2 BPSK	1	271	22.32	22.32	22.32		
100	PI/2 BPSK	135	0	22.18	22.18	22.18	23.5	0.5
100	PI/2 BPSK	135	69	22.37	22.37	22.37	24.0	0.0
100	PI/2 BPSK	135	138	22.06	22.06	22.06	23.5	0.5
100	PI/2 BPSK	270	0	21.98	21.98	21.98	24.0	0.0
100	QPSK	1	1	22.02	22.02	22.02	24.0	0.0
100	QPSK	1	137	22.05	22.05	22.05	24.0	0.0
100	QPSK	1	271	22.06	22.06	22.06	24.0	0.0
100	QPSK	135	0	22.03	22.03	22.03	24.0	0.0
100	QPSK	135	69	22.08	22.08	22.08	24.0	0.0
100	QPSK	135	138	22.06	22.06	22.06	24.0	0.0
100	QPSK	270	0	21.15	21.15	21.15	23.0	1.0
100	16QAM	1	1	21.12	21.12	21.12	23.0	1.0
100	64QAM	1	1	19.98	19.98	19.98	21.5	2.5
100	256QAM	1	1	18.38	18.38	18.38	19.5	4.5
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	22.58	22.62	22.53	24.0	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3492.02	3499.98	3510		
80	PI/2 BPSK	1	1	22.50	22.55	22.46	24.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	22.49	22.50	22.47	24.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	22.45	22.53	22.43	24.0	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	22.46	22.52	22.40	24.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	22.52	22.54	22.39	24.0	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.98		
30	PI/2 BPSK	1	1	22.51	22.50	22.40	24.0	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	22.46	22.54	22.42	24.0	0.0



**n78(Part 27Q) HPUE\_Ant 7**

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
100	PI/2 BPSK	1	1	23.32	23.32	23.32	25.0	0.0
100	PI/2 BPSK	1	137	23.31	23.31	23.31	25.0	0.0
100	PI/2 BPSK	1	271	23.21	23.21	23.21	25.0	0.0
100	PI/2 BPSK	135	0	22.91	22.91	22.91	24.5	0.5
100	PI/2 BPSK	135	69	23.28	23.28	23.28	25.0	0.0
100	PI/2 BPSK	135	138	22.96	22.96	22.96	24.5	0.5
100	PI/2 BPSK	270	0	22.88	22.88	22.88	24.5	0.5
100	QPSK	1	1	23.01	23.01	23.01	25.0	0.0
100	QPSK	1	137	23.05	23.05	23.05	25.0	0.0
100	QPSK	1	271	23.08	23.08	23.08	25.0	0.0
100	QPSK	135	0	23.08	23.08	23.08	25.0	0.0
100	QPSK	135	69	23.06	23.06	23.06	25.0	0.0
100	QPSK	135	138	23.05	23.05	23.05	25.0	0.0
100	QPSK	270	0	22.12	22.12	22.12	24.0	1.0
100	16QAM	1	1	22.01	22.01	22.01	24.0	1.0
100	64QAM	1	1	20.98	20.98	20.98	22.5	2.5
100	256QAM	1	1	20.16	20.16	20.16	20.5	4.5
Channel				630000	633332	636666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	23.23	23.23	23.21	25.0	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3499.92	3499.98	3510		
80	PI/2 BPSK	1	1	23.10	23.23	23.11	25.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3486.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	23.14	23.18	23.16	25.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	23.14	23.17	23.05	25.0	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	23.09	23.22	23.10	25.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	23.11	23.23	23.05	25.0	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	23.17	23.12	23.09	25.0	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	23.11	23.16	23.07	25.0	0.0



Reduced Power DS12-Simultaneous

n2_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				372000	376000	380500		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	23.08	23.29	23.12		
20	PI/2 BPSK	1	53	23.06	23.17	23.03	24.0	0.0
20	PI/2 BPSK	1	104	23.05	23.13	22.93		
20	PI/2 BPSK	50	0	22.61	22.68	22.54	23.5	0.5
20	PI/2 BPSK	50	28	23.09	23.16	23.02	24.0	0.0
20	PI/2 BPSK	50	56	22.99	22.66	22.49		
20	PI/2 BPSK	100	0	22.63	22.68	22.53	23.5	0.5
20	QPSK	1	1	23.09	23.16	23.02		
20	QPSK	1	53	23.07	23.20	22.87	24.0	0.0
20	QPSK	1	104	23.11	23.13	22.88		
20	QPSK	50	0	22.12	22.17	22.04	23.0	1.0
20	QPSK	50	28	23.07	23.17	23.05	24.0	0.0
20	QPSK	50	56	22.03	22.13	21.89		
20	QPSK	100	0	22.11	22.20	22.05	23.0	1.0
20	16QAM	1	1	22.02	22.07	22.05	23.0	1.0
20	64QAM	1	1	20.57	20.55	20.13	21.5	2.5
20	256QAM	1	1	18.84	18.89	18.70	19.5	4.5
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	PI/2 BPSK	1	1	23.85	23.32	23.02	24.0	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	PI/2 BPSK	1	1	23.12	23.23	22.94	24.0	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	PI/2 BPSK	1	1	23.16	23.26	23.01	24.0	0.0

n5_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				166500	167300	167800		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.11	23.19	23.02		
20	PI/2 BPSK	1	53	22.97	22.87	22.91	24.0	0.0
20	PI/2 BPSK	1	104	22.87	22.76	22.81		
20	PI/2 BPSK	50	0	22.52	22.48	22.45	23.5	0.5
20	PI/2 BPSK	50	28	22.93	22.94	22.91	24.0	0.0
20	PI/2 BPSK	50	56	22.36	22.35	22.32		
20	PI/2 BPSK	100	0	22.47	22.48	22.46	23.5	0.5
20	QPSK	1	1	22.89	23.03	22.91		
20	QPSK	1	53	22.77	22.82	22.77	24.0	0.0
20	QPSK	1	104	22.66	22.77	22.62		
20	QPSK	50	0	21.79	21.95	21.84	23.0	1.0
20	QPSK	50	28	22.76	22.88	22.76	24.0	0.0
20	QPSK	50	56	21.88	21.84	21.78		
20	QPSK	100	0	21.89	21.97	21.82	23.0	1.0
20	16QAM	1	1	22.05	22.21	22.05	23.0	1.0
20	64QAM	1	1	20.18	20.23	20.17	21.5	2.5
20	256QAM	1	1	18.66	18.76	18.65	19.5	4.5
Channel				166300	167300	168300		
Frequency (MHz)				831.5	836.5	841.5		
15	PI/2 BPSK	1	1	23.07	23.18	23.01	24.0	0.0
Channel				165800	167300	168800		
Frequency (MHz)				829	836.5	844		
10	PI/2 BPSK	1	1	23.04	22.89	22.96	24.0	0.0
Channel				165300	167300	169300		
Frequency (MHz)				826.5	836.5	846.5		
5	PI/2 BPSK	1	1	23.11	23.02	22.96	24.0	0.0



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				50400	50700	51000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	23.43	23.48	23.24			
40	PI/2 BPSK	1	108	23.44	23.33	23.23	24.0	0.0	
40	PI/2 BPSK	1	214	23.35	23.29	23.12			
40	PI/2 BPSK	108	0	23.01	22.82	22.84	23.5	0.5	
40	PI/2 BPSK	108	54	23.12	23.13	23.11	24.0	0.0	
40	PI/2 BPSK	108	108	22.84	22.93	22.83			
40	PI/2 BPSK	216	0	22.85	22.89	22.88	23.5	0.5	
40	QPSK	1	1	23.39	23.46	23.37			
40	QPSK	1	108	23.05	23.14	22.98	24.0	0.0	
40	QPSK	1	214	23.21	23.31	23.19			
40	QPSK	108	0	22.30	22.36	22.22	23.0	1.0	
40	QPSK	108	54	23.00	23.07	22.97	24.0	0.0	
40	QPSK	108	108	22.25	22.41	22.32			
40	QPSK	216	0	22.22	22.38	22.22	23.0	1.0	
40	16QAM	1	1	22.28	22.39	22.31	23.0	1.0	
40	64QAM	1	1	20.57	20.66	20.61	21.5	2.5	
40	256QAM	1	1	19.25	19.38	19.32	19.5	4.5	
Channel				503000	507000	511000			
Frequency (MHz)				2515	2535	2555			
30	PI/2 BPSK	1	1	23.48	23.38	23.25	24.0	0.0	
Channel				502000	507000	511500			
Frequency (MHz)				2512.5	2535	2557.5			
25	PI/2 BPSK	1	1	23.36	23.26	23.28	24.0	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	23.22	23.06	23.05	24.0	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5			
15	PI/2 BPSK	1	1	23.16	23.12	22.97	24.0	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565			
10	PI/2 BPSK	1	1	23.33	23.22	23.19	24.0	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5			
5	PI/2 BPSK	1	1	23.37	23.14	23.07	24.0	0.0	

n7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50400	50700	51000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	15.94	16.10	15.90			
40	PI/2 BPSK	1	108	15.90	15.82	15.85	17.0	0.0	
40	PI/2 BPSK	1	214	15.59	15.87	15.84			
40	PI/2 BPSK	108	0	15.84	15.84	15.87	17.0	0.0	
40	PI/2 BPSK	108	54	15.91	15.95	15.88	17.0	0.0	
40	PI/2 BPSK	108	108	15.60	15.88	15.94			
40	PI/2 BPSK	216	0	15.90	15.93	15.85	17.0	0.0	
40	QPSK	1	1	15.73	15.90	15.75			
40	QPSK	1	108	15.94	15.87	15.63	17.0	0.0	
40	QPSK	1	214	15.68	15.84	15.70			
40	QPSK	108	0	15.83	15.85	15.86	16.0	1.0	
40	QPSK	108	54	15.61	15.86	15.64	17.0	0.0	
40	QPSK	108	108	15.83	15.84	15.94			
40	QPSK	216	0	15.94	15.91	15.91	16.0	1.0	
40	16QAM	1	1	15.72	15.80	15.72	17.0	0.0	
40	64QAM	1	1	15.55	15.69	15.87	17.0	0.0	
40	256QAM	1	1	15.92	15.95	15.49	17.0	0.0	
Channel				503000	507000	511000			
Frequency (MHz)				2515	2535	2555			
30	PI/2 BPSK	1	1	15.75	15.80	15.81	17.0	0.0	
Channel				502000	507000	511500			
Frequency (MHz)				2512.5	2535	2557.5			
25	PI/2 BPSK	1	1	15.78	15.94	15.70	17.0	0.0	
Channel				502000	507000	512000			
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	15.77	15.83	15.72	17.0	0.0	
Channel				501500	507000	512500			
Frequency (MHz)				2507.5	2535	2562.5			
15	PI/2 BPSK	1	1	15.91	15.69	15.70	17.0	0.0	
Channel				501000	507000	513000			
Frequency (MHz)				2505	2535	2565			
10	PI/2 BPSK	1	1	15.71	15.77	15.71	17.0	0.0	
Channel				500500	507000	513500			
Frequency (MHz)				2502.5	2535	2567.5			
5	PI/2 BPSK	1	1	15.88	15.84	15.81	17.0	0.0	



n66_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				345000	345000	352000		
Frequency (MHz)				1745	1745	1760		
40	PI/2 BPSK	1	1	23.40	23.48	23.28		
40	PI/2 BPSK	1	108	23.31	23.39	23.24	24.0	0.0
40	PI/2 BPSK	1	214	23.34	23.27	23.11		
40	PI/2 BPSK	108	0	22.76	22.74	22.74	23.5	0.5
40	PI/2 BPSK	108	54	23.22	23.23	23.19	24.0	0.0
40	PI/2 BPSK	108	108	22.85	22.78	22.89		
40	PI/2 BPSK	216	0	22.77	22.81	22.70	23.5	0.5
40	QPSK	1	1	23.17	23.26	23.17		
40	QPSK	1	108	23.14	23.29	23.23	24.0	0.0
40	QPSK	1	214	23.13	23.24	23.10		
40	QPSK	108	0	22.12	22.26	22.16	23.0	1.0
40	QPSK	108	54	23.11	23.21	23.15	24.0	0.0
40	QPSK	108	108	22.16	22.29	22.16		
40	QPSK	216	0	22.17	22.25	22.17	23.0	1.0
40	16QAM	1	1	22.15	22.23	22.09	23.0	1.0
40	64QAM	1	1	20.44	20.49	20.36	21.5	2.5
40	256QAM	1	1	18.53	18.69	18.58	19.5	4.5
Channel				345000	349000	353000		
Frequency (MHz)				1745	1745	1765	Tune-up limit (dBm)	MPR (dB)
30	PI/2 BPSK	1	1	23.87	23.33	23.34	24.0	0.0
Channel				344000	349000	354000		
Frequency (MHz)				1720	1745	1770	IAPmAPI (dBm)	MPR (dB)
20	PI/2 BPSK	1	1	23.45	23.29	23.16	24.0	0.0
Channel				343500	349000	354500		
Frequency (MHz)				1717.5	1745	1772.5	tune-up (IAPmAPI (dBm))	MPR (dB)
15	PI/2 BPSK	1	1	23.38	23.36	23.19	24.0	0.0
Channel				343000	349000	355000		
Frequency (MHz)				1715	1745	1775	IAPmAPI (dB)	MPR (dB)
10	PI/2 BPSK	1	1	23.31	23.32	23.09	24.0	0.0
Channel				342500	349000	355500		
Frequency (MHz)				1712.5	1745	1777.5	tune-up (IAPmAPI (dBm))	MPR (dB)
5	PI/2 BPSK	1	1	23.22	23.41	23.09	24.0	0.0



n38_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				518004	519000	519996			
Frequency (MHz)				2580.02	2595	2599.98			
40	PI/2 BPSK	1	1	23.17	23.29	23.17	24.0	0.0	
40	PI/2 BPSK	1	53	23.20	23.19	23.26			
40	PI/2 BPSK	1	104	23.21	23.15	23.19			
40	PI/2 BPSK	50	0	22.66	22.66	22.71	23.5	0.5	
40	PI/2 BPSK	50	28	23.22	23.28	23.27	24.0	0.0	
40	PI/2 BPSK	50	56	22.76	22.78	22.75	23.5	0.5	
40	PI/2 BPSK	100	0	22.74	22.76	22.67			
40	QPSK	1	1	23.01	23.11	22.98	24.0	0.0	
40	QPSK	1	53	23.06	23.17	23.04			
40	QPSK	1	104	23.26	23.12	23.16			
40	QPSK	50	0	22.04	22.17	22.03	24.0	0.0	
40	QPSK	50	28	23.08	23.16	23.07			
40	QPSK	50	56	22.17	22.25	22.09			
40	QPSK	100	0	22.05	22.17	22.02	23.0	1.0	
40	16QAM	1	1	22.22	22.29	22.15	23.0	1.0	
40	64QAM	1	1	20.13	20.23	20.17	21.5	2.5	
40	256QAM	1	1	18.90	19.01	18.89	19.5	4.5	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	PI/2 BPSK	1	1	23.18	23.13	23.18	24.0	0.0	
Channel				516000	519000	520000			
Frequency (MHz)				2580	2595	2610			
20	PI/2 BPSK	1	1	23.16	23.16	23.03	24.0	0.0	

n78(Part 27Q)_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					633000	633332			
Frequency (MHz)					3495	3499.98			
100	PI/2 BPSK	1	1		16.24		17.0	0.0	
100	PI/2 BPSK	1	137		16.23				
100	PI/2 BPSK	1	271		16.16				
100	PI/2 BPSK	135	0		16.21		17.0	0.0	
100	PI/2 BPSK	135	69		16.22		17.0	0.0	
100	PI/2 BPSK	135	138		16.17		17.0	0.0	
100	PI/2 BPSK	270	0		16.20				
100	QPSK	1	1		16.18		17.0	0.0	
100	QPSK	1	137		16.12				
100	QPSK	1	271		16.04				
100	QPSK	135	0		16.13		17.0	0.0	
100	QPSK	135	69		16.09				
100	QPSK	135	138		16.10				
100	QPSK	270	0		16.05		17.0	0.0	
100	16QAM	1	1		16.08		17.0	0.0	
100	64QAM	1	1		16.07		17.0	0.0	
100	256QAM	1	1		16.16		17.0	0.0	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	16.05	16.05	16.12	17.0	0.0	
Channel				632668	633332	634000			
Frequency (MHz)				3480.02	3499.98	3510			
80	PI/2 BPSK	1	1	16.09	16.20	16.20	17.0	0.0	
Channel				632334	633332	634332			
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	16.04	16.15	16.13	17.0	0.0	
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	16.05	16.17	16.01	17.0	0.0	
Channel				631668	633332	635000			
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	16.13	16.17	16.01	17.0	0.0	
Channel				631334	633332	635332			
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	16.06	16.14	15.96	17.0	0.0	
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3534.98			
30	PI/2 BPSK	1	1	16.03	16.01	16.06	17.0	0.0	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	16.08	16.07	16.16	17.0	0.0	





n78(Part 27Q) HPUE_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	3499.98	3499.98	3504.99			
100	PI/2 BPSK	1	137	16.23	16.23	16.23	17.0	0.0	
100	PI/2 BPSK	1	271	16.16	16.16	16.16			
100	PI/2 BPSK	135	0	16.21	16.21	16.21	17.0	0.0	
100	PI/2 BPSK	135	69	16.22	16.22	16.22	17.0	0.0	
100	PI/2 BPSK	135	138	16.17	16.17	16.17	17.0	0.0	
100	PI/2 BPSK	270	0	16.20	16.20	16.20			
100	QPSK	1	1	16.16	16.16	16.16			
100	QPSK	1	137	16.12	16.12	16.12	17.0	0.0	
100	QPSK	1	271	16.04	16.04	16.04			
100	QPSK	135	0	16.13	16.13	16.13			
100	QPSK	135	69	16.09	16.09	16.09	17.0	0.0	
100	QPSK	135	138	16.10	16.10	16.10			
100	QPSK	270	0	16.05	16.05	16.05	17.0	0.0	
100	16QAM	1	1	16.06	16.06	16.06	17.0	0.0	
100	64QAM	1	1	16.07	16.07	16.07	17.0	0.0	
100	256QAM	1	1	16.16	16.16	16.16	17.0	0.0	
Channel									
Frequency (MHz)									
90	PI/2 BPSK	1	1	16.05	16.05	16.12	17.0	0.0	
Channel									
Frequency (MHz)									
80	PI/2 BPSK	1	1	16.09	16.20	16.20	17.0	0.0	
Channel									
Frequency (MHz)									
70	PI/2 BPSK	1	1	16.04	16.15	16.13	17.0	0.0	
Channel									
Frequency (MHz)									
60	PI/2 BPSK	1	1	16.05	16.17	16.01	17.0	0.0	
Channel									
Frequency (MHz)									
50	PI/2 BPSK	1	1	16.13	16.17	16.01	17.0	0.0	
Channel									
Frequency (MHz)									
40	PI/2 BPSK	1	1	16.06	16.14	16.06	17.0	0.0	
Channel									
Frequency (MHz)									
30	PI/2 BPSK	1	1	16.03	16.01	16.08	17.0	0.0	
Channel									
Frequency (MHz)									
20	PI/2 BPSK	1	1	16.08	16.07	16.16	17.0	0.0	

n78(Part 27Q)_Ant 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	PI/2 BPSK	1	1	3499.98	3499.98	3504.99			
100	PI/2 BPSK	1	137	15.97	15.97	15.97	17.0	0.0	
100	PI/2 BPSK	1	271	15.96	15.96	15.96			
100	PI/2 BPSK	135	0	15.80	15.80	15.80	17.0	0.0	
100	PI/2 BPSK	135	69	16.00	16.00	16.00	17.0	0.0	
100	PI/2 BPSK	135	138	15.93	15.93	15.93	17.0	0.0	
100	PI/2 BPSK	270	0	15.98	15.98	15.98			
100	QPSK	1	1	15.80	15.80	15.80			
100	QPSK	1	137	15.94	15.94	15.94	17.0	0.0	
100	QPSK	1	271	15.89	15.89	15.89			
100	QPSK	135	0	15.85	15.85	15.85			
100	QPSK	135	69	15.83	15.83	15.83	17.0	0.0	
100	QPSK	135	138	15.88	15.88	15.88			
100	QPSK	270	0	15.97	15.97	15.97	17.0	0.0	
100	16QAM	1	1	15.71	15.71	15.71	17.0	0.0	
100	64QAM	1	1	15.61	15.61	15.61	17.0	0.0	
100	256QAM	1	1	15.78	15.78	15.78	17.0	0.0	
Channel									
Frequency (MHz)									
90	PI/2 BPSK	1	1	15.95	15.96	15.97	17.0	0.0	
Channel									
Frequency (MHz)									
80	PI/2 BPSK	1	1	16.00	15.92	15.84	17.0	0.0	
Channel									
Frequency (MHz)									
70	PI/2 BPSK	1	1	15.92	15.89	16.01	17.0	0.0	
Channel									
Frequency (MHz)									
60	PI/2 BPSK	1	1	15.90	15.88	15.93	17.0	0.0	
Channel									
Frequency (MHz)									
50	PI/2 BPSK	1	1	15.96	15.96	15.99	17.0	0.0	
Channel									
Frequency (MHz)									
40	PI/2 BPSK	1	1	16.00	15.87	15.88	17.0	0.0	
Channel									
Frequency (MHz)									
30	PI/2 BPSK	1	1	15.97	15.82	15.90	17.0	0.0	
Channel									
Frequency (MHz)									
20	PI/2 BPSK	1	1	15.87	15.87	15.82	17.0	0.0	



n78(Part 27Q) HPUE_Ant 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				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	15.92	15.92	15.92	17.0	0.0	
100	PI/2 BPSK	1	137	15.97	15.97	15.97	17.0	0.0	
100	PI/2 BPSK	1	271	15.96	15.96	15.96	17.0	0.0	
100	PI/2 BPSK	135	0	15.80	15.80	15.80	17.0	0.0	
100	PI/2 BPSK	135	69	16.00	16.00	16.00	17.0	0.0	
100	PI/2 BPSK	135	138	15.93	15.93	15.93	17.0	0.0	
100	PI/2 BPSK	270	0	15.98	15.98	15.98	17.0	0.0	
100	QPSK	1	1	15.80	15.80	15.80	17.0	0.0	
100	QPSK	1	137	15.54	15.54	15.54	17.0	0.0	
100	QPSK	1	271	15.89	15.89	15.89	17.0	0.0	
100	QPSK	135	0	15.85	15.85	15.85	17.0	0.0	
100	QPSK	135	69	15.83	15.83	15.83	17.0	0.0	
100	QPSK	135	138	15.88	15.88	15.88	17.0	0.0	
100	QPSK	270	0	15.97	15.97	15.97	17.0	0.0	
100	16QAM	1	1	15.71	15.71	15.71	17.0	0.0	
100	64QAM	1	1	15.61	15.61	15.61	17.0	0.0	
100	256QAM	1	1	15.78	15.78	15.78	17.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99	17.0	0.0	
90	PI/2 BPSK	1	1	15.95	15.96	15.97	17.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3499.98	3510	17.0	0.0	
80	PI/2 BPSK	1	1	16.00	15.92	15.84	17.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98	17.0	0.0	
70	PI/2 BPSK	1	1	15.92	15.89	16.01	17.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3499.98	3519.99	17.0	0.0	
60	PI/2 BPSK	1	1	15.90	15.83	15.93	17.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525	17.0	0.0	
50	PI/2 BPSK	1	1	15.96	15.96	15.99	17.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98	17.0	0.0	
40	PI/2 BPSK	1	1	16.00	15.87	15.88	17.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99	17.0	0.0	
30	PI/2 BPSK	1	1	15.97	15.82	15.90	17.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540	17.0	0.0	
20	PI/2 BPSK	1	1	15.87	15.87	15.82	17.0	0.0	

n78(Part 27Q)_Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	15.56	15.56	15.56	16.5	0.0	
100	PI/2 BPSK	1	137	15.54	15.54	15.54	16.5	0.0	
100	PI/2 BPSK	1	271	15.53	15.53	15.53	16.5	0.0	
100	PI/2 BPSK	135	0	15.45	15.45	15.45	16.5	0.0	
100	PI/2 BPSK	135	69	15.54	15.54	15.54	16.5	0.0	
100	PI/2 BPSK	135	138	15.41	15.41	15.41	16.5	0.0	
100	PI/2 BPSK	270	0	15.52	15.52	15.52	16.5	0.0	
100	QPSK	1	1	15.40	15.40	15.40	16.5	0.0	
100	QPSK	1	137	15.49	15.49	15.49	16.5	0.0	
100	QPSK	1	271	15.52	15.52	15.52	16.5	0.0	
100	QPSK	135	0	15.41	15.41	15.41	16.5	0.0	
100	QPSK	135	69	15.47	15.47	15.47	16.5	0.0	
100	QPSK	135	138	15.49	15.49	15.49	16.5	0.0	
100	QPSK	270	0	15.42	15.42	15.42	16.5	0.0	
100	16QAM	1	1	15.38	15.38	15.38	16.5	0.0	
100	64QAM	1	1	15.35	15.35	15.35	16.5	0.0	
100	256QAM	1	1	15.52	15.52	15.52	16.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99	16.5	0.0	
90	PI/2 BPSK	1	1	15.23	15.32	15.38	16.5	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3499.98	3510	16.5	0.0	
80	PI/2 BPSK	1	1	15.47	15.54	15.17	16.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98	16.5	0.0	
70	PI/2 BPSK	1	1	15.39	15.50	15.41	16.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3499.98	3519.99	16.5	0.0	
60	PI/2 BPSK	1	1	15.47	15.38	15.17	16.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525	16.5	0.0	
50	PI/2 BPSK	1	1	15.31	15.34	15.34	16.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98	16.5	0.0	
40	PI/2 BPSK	1	1	15.43	15.50	15.19	16.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99	16.5	0.0	
30	PI/2 BPSK	1	1	15.25	15.29	15.28	16.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540	16.5	0.0	
20	PI/2 BPSK	1	1	15.51	15.45	15.41	16.5	0.0	



n78(Part 27Q) HPUE_Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	3499.98	15.53				
100	PI/2 BPSK	1	137	15.54			16.5	0.0	
100	PI/2 BPSK	1	271	15.53					
100	PI/2 BPSK	135	0	15.45			16.5	0.0	
100	PI/2 BPSK	135	69	15.54			16.5	0.0	
100	PI/2 BPSK	135	138	15.41			16.5	0.0	
100	PI/2 BPSK	270	0	15.52					
100	QPSK	1	1	15.40					
100	QPSK	1	137	15.49			16.5	0.0	
100	QPSK	1	271	15.52					
100	QPSK	135	0	15.41					
100	QPSK	135	69	15.47			16.5	0.0	
100	QPSK	135	138	15.49					
100	QPSK	270	0	15.42			16.5	0.0	
100	16QAM	1	1	15.38			16.5	0.0	
100	64QAM	1	1	15.35			16.5	0.0	
100	256QAM	1	1	15.52			16.5	0.0	
Channel									
Frequency (MHz)									
90	PI/2 BPSK	1	1	15.23	15.32	15.38	16.5	0.0	
Channel									
Frequency (MHz)									
80	PI/2 BPSK	1	1	15.47	15.54	15.17	16.5	0.0	
Channel									
Frequency (MHz)									
70	PI/2 BPSK	1	1	15.39	15.50	15.41	16.5	0.0	
Channel									
Frequency (MHz)									
60	PI/2 BPSK	1	1	15.47	15.33	15.17	16.5	0.0	
Channel									
Frequency (MHz)									
50	PI/2 BPSK	1	1	15.31	15.34	15.34	16.5	0.0	
Channel									
Frequency (MHz)									
40	PI/2 BPSK	1	1	15.43	15.50	15.19	16.5	0.0	
Channel									
Frequency (MHz)									
30	PI/2 BPSK	1	1	15.25	15.29	15.28	16.5	0.0	
Channel									
Frequency (MHz)									
20	PI/2 BPSK	1	1	15.51	15.45	15.41	16.5	0.0	

n78(Part 27Q)_Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	3499.98	22.65				
100	PI/2 BPSK	1	137	22.40			24.0	0.0	
100	PI/2 BPSK	1	271	22.32					
100	PI/2 BPSK	135	0	22.18			23.5	0.5	
100	PI/2 BPSK	135	69	22.37			24.0	0.0	
100	PI/2 BPSK	135	138	22.06			23.5	0.5	
100	PI/2 BPSK	270	0	21.98					
100	QPSK	1	1	22.02					
100	QPSK	1	137	22.05			24.0	0.0	
100	QPSK	1	271	22.06					
100	QPSK	135	0	22.03					
100	QPSK	135	69	22.08			24.0	0.0	
100	QPSK	135	138	22.06					
100	QPSK	270	0	21.15			23.0	1.0	
100	16QAM	1	1	21.12			23.0	1.0	
100	64QAM	1	1	19.98			21.5	2.5	
100	256QAM	1	1	18.38			19.5	4.5	
Channel									
Frequency (MHz)									
90	PI/2 BPSK	1	1	22.58	22.62	22.53	24.0	0.0	
Channel									
Frequency (MHz)									
80	PI/2 BPSK	1	1	22.50	22.55	22.46	24.0	0.0	
Channel									
Frequency (MHz)									
70	PI/2 BPSK	1	1	22.49	22.50	22.47	24.0	0.0	
Channel									
Frequency (MHz)									
60	PI/2 BPSK	1	1	22.45	22.53	22.43	24.0	0.0	
Channel									
Frequency (MHz)									
50	PI/2 BPSK	1	1	22.46	22.52	22.40	24.0	0.0	
Channel									
Frequency (MHz)									
40	PI/2 BPSK	1	1	22.52	22.54	22.59	24.0	0.0	
Channel									
Frequency (MHz)									
30	PI/2 BPSK	1	1	22.51	22.50	22.40	24.0	0.0	
Channel									
Frequency (MHz)									
20	PI/2 BPSK	1	1	22.46	22.54	22.42	24.0	0.0	



### n78(Part 27Q) HPUe\_Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
100	PI/2 BPSK	1	1	23.32	23.32			
100	PI/2 BPSK	1	137	23.31			25.0	0.0
100	PI/2 BPSK	1	271	23.21				
100	PI/2 BPSK	135	0	22.91			24.5	0.5
100	PI/2 BPSK	135	69	23.28			25.0	0.0
100	PI/2 BPSK	135	138	22.96			24.5	0.5
100	PI/2 BPSK	270	0	22.88				
100	QPSK	1	1	23.01				
100	QPSK	1	137	23.05			25.0	0.0
100	QPSK	1	271	23.08				
100	QPSK	135	0	23.08				
100	QPSK	135	69	23.06			25.0	0.0
100	QPSK	135	138	23.05				
100	QPSK	270	0	22.12			24.0	1.0
100	16QAM	1	1	22.01			24.0	1.0
100	64QAM	1	1	20.98			22.5	2.5
100	256QAM	1	1	20.16			20.5	4.5
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	23.23	23.28	23.21	25.0	0.0
Channel				632666	633332	634000		
Frequency (MHz)				3495.02	3499.98	3510		
80	PI/2 BPSK	1	1	23.10	23.23	23.11	25.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	23.14	23.18	23.16	25.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	23.14	23.17	23.05	25.0	0.0
Channel				631666	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	23.09	23.22	23.10	25.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	23.11	23.23	23.05	25.0	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	23.17	23.12	23.09	25.0	0.0
Channel				630666	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	23.11	23.16	23.07	25.0	0.0



Reduced Power DS13-Standalone

n2_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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	18.58	18.75	18.64			
20	PI/2 BPSK	1	53	18.53	18.66	18.50	19.5	0.0	
20	PI/2 BPSK	1	104	18.51	18.68	18.48			
20	PI/2 BPSK	50	0	18.48	18.62	18.52	19.5	0.0	
20	PI/2 BPSK	50	28	18.55	18.73	18.62	19.5	0.0	
20	PI/2 BPSK	50	56	18.41	18.63	18.53			
20	PI/2 BPSK	100	0	18.53	18.72	18.59	19.5	0.0	
20	QPSK	1	1	18.40	18.65	18.50			
20	QPSK	1	53	18.53	18.67	18.55	19.5	0.0	
20	QPSK	1	104	18.49	18.60	18.39			
20	QPSK	50	0	18.45	18.70	18.60	19.5	0.0	
20	QPSK	50	28	18.51	18.62	18.42	19.5	0.0	
20	QPSK	50	56	18.37	18.58	18.37			
20	QPSK	100	0	18.45	18.66	18.39	19.5	0.0	
20	16QAM	1	1	18.59	18.69	18.40	19.5	0.0	
20	64QAM	1	1	18.29	18.44	18.31	19.5	0.0	
20	256QAM	1	1	18.33	18.55	18.45	19.5	0.0	
Channel				371500	376000	380500	Tune-up limit	MPR	
Frequency (MHz)				1837.5	1860	1902.5	(dBm)	(dB)	
15	PI/2 BPSK	1	1	18.44	18.59	18.55	19.5	0.0	
Channel				371000	376000	381000	Tune-up limit	MPR	
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)	
10	PI/2 BPSK	1	1	18.40	18.64	18.50	19.5	0.0	
Channel				370500	376000	381500	Tune-up limit	MPR	
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)	
5	PI/2 BPSK	1	1	18.49	18.80	18.54	19.5	0.0	

n5_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				168800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	23.11	23.19	23.02			
20	PI/2 BPSK	1	53	22.97	22.87	22.91	24.0	0.0	
20	PI/2 BPSK	1	104	22.87	22.76	22.81			
20	PI/2 BPSK	50	0	22.52	22.48	22.45	23.5	0.5	
20	PI/2 BPSK	50	28	22.93	22.94	22.91	24.0	0.0	
20	PI/2 BPSK	50	56	22.36	22.35	22.32			
20	PI/2 BPSK	100	0	22.47	22.48	22.46	23.5	0.5	
20	QPSK	1	1	22.89	23.03	22.91			
20	QPSK	1	53	22.77	22.92	22.77	24.0	0.0	
20	QPSK	1	104	22.66	22.77	22.62			
20	QPSK	50	0	21.79	21.95	21.84	23.0	1.0	
20	QPSK	50	28	22.76	22.88	22.76	24.0	0.0	
20	QPSK	50	56	21.68	21.84	21.78			
20	QPSK	100	0	21.89	21.97	21.82	23.0	1.0	
20	16QAM	1	1	22.05	22.21	22.05	23.0	1.0	
20	64QAM	1	1	20.18	20.23	20.17	21.5	2.5	
20	256QAM	1	1	18.66	18.76	18.65	19.5	4.5	
Channel				165300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)	
15	PI/2 BPSK	1	1	23.07	23.18	23.01	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit	MPR	
Frequency (MHz)				829	836.5	844	(dBm)	(dB)	
10	PI/2 BPSK	1	1	23.04	22.89	22.96	24.0	0.0	
Channel				165300	167300	168300	Tune-up limit	MPR	
Frequency (MHz)				836.5	836.5	846.5	(dBm)	(dB)	
5	PI/2 BPSK	1	1	23.11	23.02	22.96	24.0	0.0	



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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	17.95	18.03	17.83			
40	PI/2 BPSK	1	108	17.87	17.89	17.84	19.0	0.0	
40	PI/2 BPSK	1	214	17.66	17.85	17.77			
40	PI/2 BPSK	108	0	17.82	17.87	17.57	19.0	0.0	
40	PI/2 BPSK	108	54	17.92	18.00	17.90	19.0	0.0	
40	PI/2 BPSK	108	108	17.75	17.99	17.65			
40	PI/2 BPSK	216	0	17.88	17.98	17.75	19.0	0.0	
40	QPSK	1	1	17.74	17.84	17.65			
40	QPSK	1	108	17.87	17.89	17.76	19.0	0.0	
40	QPSK	1	214	17.67	17.85	17.69			
40	QPSK	108	0	17.55	17.73	17.66	19.0	0.0	
40	QPSK	108	54	17.59	17.66	17.57	19.0	0.0	
40	QPSK	108	108	17.72	17.75	17.59			
40	QPSK	216	0	17.62	17.66	17.58	19.0	0.0	
40	16QAM	1	1	17.84	17.95	17.92	19.0	0.0	
40	64QAM	1	1	17.46	17.64	17.54	19.0	0.0	
40	256QAM	1	1	17.82	17.83	17.75	19.0	0.0	
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI/2 BPSK	1	1	17.84	17.97	17.83	19.0	0.0	
Channel				502500	507000	511500	APM:up (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	IAEmAEAE (dBm)		
25	PI/2 BPSK	1	1	17.86	17.95	17.74	19.0	0.0	
Channel				502000	507000	512000	APM:up (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	IAEmAEAE (dBm)		
20	PI/2 BPSK	1	1	17.89	17.88	17.72	19.0	0.0	
Channel				501500	507000	512500	APM:up (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	IAEmAEI (dBm)		
15	PI/2 BPSK	1	1	17.91	17.98	17.76	19.0	0.0	
Channel				501000	507000	513000	APM:up (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	IAEmAEI (dBm)		
10	PI/2 BPSK	1	1	17.62	17.83	17.72	19.0	0.0	
Channel				500500	507000	513500	APM:up (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	IAEmAEI (dBm)		
5	PI/2 BPSK	1	1	17.76	18.01	17.64	19.0	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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	19.39	19.44	19.28			
40	PI/2 BPSK	1	108	19.33	19.27	19.27	20.5	0.0	
40	PI/2 BPSK	1	214	19.20	19.27	19.23			
40	PI/2 BPSK	108	0	19.16	19.14	19.22	20.5	0.0	
40	PI/2 BPSK	108	54	19.35	19.42	19.24	20.5	0.0	
40	PI/2 BPSK	108	108	19.14	19.12	19.16			
40	PI/2 BPSK	216	0	19.33	19.40	19.20	20.5	0.0	
40	QPSK	1	1	19.21	19.18	19.15			
40	QPSK	1	108	19.05	19.25	19.25	20.5	0.0	
40	QPSK	1	214	19.21	19.21	19.08			
40	QPSK	108	0	19.16	19.26	19.23	20.5	0.0	
40	QPSK	108	54	19.25	19.20	19.21	20.5	0.0	
40	QPSK	108	108	19.33	19.23	19.23			
40	QPSK	216	0	19.04	19.17	19.17	20.5	0.0	
40	16QAM	1	1	19.17	19.33	19.37	20.5	0.0	
40	64QAM	1	1	19.24	19.26	19.11	20.5	0.0	
40	256QAM	1	1	19.40	19.34	19.04	20.5	0.0	
Channel				503000	507000	510000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI/2 BPSK	1	1	19.20	19.35	19.25	20.5	0.0	
Channel				502500	507000	511500	APM:up (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5	IAEmAPAP (dBm)		
25	PI/2 BPSK	1	1	19.31	19.31	19.28	20.5	0.0	
Channel				502000	507000	512000	APM:up (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560	IAEmAPAP (dBm)		
20	PI/2 BPSK	1	1	19.33	19.28	19.27	20.5	0.0	
Channel				501500	507000	512500	APM:up (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5	IAEmAPT (dBm)		
15	PI/2 BPSK	1	1	19.31	19.24	19.25	20.5	0.0	
Channel				501000	507000	513000	APM:up (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565	IAEmAPT (dBm)		
10	PI/2 BPSK	1	1	19.35	19.39	19.22	20.5	0.0	
Channel				500500	507000	513500	APM:up (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5	IAEmAPT (dBm)		
5	PI/2 BPSK	1	1	19.35	19.33	19.16	20.5	0.0	



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BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 3465000	Power Middle Ch. / Freq. 3490000	Power High Ch. / Freq. 3520000	Tune-up limit (dBm)	MPR (dB)
Channel				1730	1745	1760		
40	PI/2 BPSK	1	1	18.46	18.60	18.50		
40	PI/2 BPSK	1	108	18.41	18.59	18.43	19.5	0.0
40	PI/2 BPSK	1	214	18.23	18.37	18.36		
40	PI/2 BPSK	108	0	18.42	18.42	18.33	19.5	0.0
40	PI/2 BPSK	108	54	18.43	18.58	18.46	19.5	0.0
40	PI/2 BPSK	108	108	18.30	18.42	18.35	19.5	0.0
40	PI/2 BPSK	216	0	18.40	18.56	18.43		
40	QPSK	1	1	18.32	18.44	18.25		
40	QPSK	1	108	18.32	18.49	18.36	19.5	0.0
40	QPSK	1	214	18.23	18.33	18.21		
40	QPSK	108	0	18.22	18.36	18.29	19.5	0.0
40	QPSK	108	54	18.29	18.47	18.38	19.5	0.0
40	QPSK	108	108	18.40	18.46	18.45	19.5	0.0
40	QPSK	216	0	18.32	18.36	18.26		
40	16QAM	1	1	18.52	18.53	18.50	19.5	0.0
40	64QAM	1	1	18.02	18.22	18.11	19.5	0.0
40	256QAM	1	1	18.33	18.33	18.22	19.5	0.0
Channel				3450000	3490000	3530000	Tune-up limit	MPR
Frequency (MHz)				1725	1745	1765	(dBm)	(dB)
30	PI/2 BPSK	1	1	18.48	18.54	18.38	19.5	0.0
Channel				3440000	3490000	3540000	Tune-up	MPR
Frequency (MHz)				1720	1745	1770	(dBm)	(dB)
20	PI/2 BPSK	1	1	18.56	18.50	18.25	19.5	0.0
Channel				3435000	3490000	3545000	Harmon.	MPR
Frequency (MHz)				1717.5	1745	1772.5	(APM/AP)	(dB)
15	PI/2 BPSK	1	1	18.59	18.55	18.32	19.5	0.0
Channel				3430000	3490000	3550000	Harmon.	MPR
Frequency (MHz)				1715	1745	1775	(dBm)	(dB)
10	PI/2 BPSK	1	1	18.59	18.58	18.43	19.5	0.0
Channel				3425000	3490000	3555000	Harmon.	MPR
Frequency (MHz)				1712.5	1745	1777.5	(APM/AP)	(dB)
5	PI/2 BPSK	1	1	18.58	18.52	18.38	19.5	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				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	18.51	18.76	18.64		
40	PI/2 BPSK	1	53	18.54	18.57	18.57	19.5	0.0
40	PI/2 BPSK	1	104	18.50	18.67	18.57		
40	PI/2 BPSK	50	0	18.42	18.54	18.38	19.5	0.0
40	PI/2 BPSK	50	28	18.57	18.75	18.61	19.5	0.0
40	PI/2 BPSK	50	56	18.47	18.50	18.41	19.5	0.0
40	PI/2 BPSK	100	0	18.55	18.73	18.59		
40	QPSK	1	1	18.44	18.45	18.54		
40	QPSK	1	53	18.56	18.58	18.45	19.5	0.0
40	QPSK	1	104	18.69	18.69	18.63		
40	QPSK	50	0	18.49	18.51	18.47		
40	QPSK	50	28	18.57	18.61	18.56	19.5	0.0
40	QPSK	50	56	18.56	18.62	18.61		
40	QPSK	100	0	18.52	18.55	18.52	19.5	0.0
40	16QAM	1	1	18.36	18.36	18.46	19.5	0.0
40	64QAM	1	1	18.17	18.36	18.20	19.5	0.0
40	256QAM	1	1	18.17	18.23	18.11	19.5	0.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	PI/2 BPSK	1	1	18.42	18.61	18.59	19.5	0.0
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2580	2585	2590		
20	PI/2 BPSK	1	1	18.43	18.58	18.55	19.5	0.0

n78(Part 27Q)_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel					633332			
Frequency (MHz)					3499.98			
100	PI/2 BPSK	1	1		20.27			
100	PI/2 BPSK	1	137		20.19		21.0	0.0
100	PI/2 BPSK	1	271		20.25			
100	PI/2 BPSK	135	0		20.17		21.0	0.0
100	PI/2 BPSK	135	69		20.26		21.0	0.0
100	PI/2 BPSK	135	138		20.24		21.0	0.0
100	PI/2 BPSK	270	0		20.24			
100	QPSK	1	1		20.20			
100	QPSK	1	137		20.26		21.0	0.0
100	QPSK	1	271		20.23			
100	QPSK	135	0		20.17			
100	QPSK	135	69		20.18		21.0	0.0
100	QPSK	135	138		20.12			
100	QPSK	270	0		20.17		21.0	0.0
100	16QAM	1	1		20.17		21.0	0.0
100	64QAM	1	1		20.02		21.0	0.0
100	256QAM	1	1		19.90		19.5	1.5
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	20.19	20.13	20.12	21.0	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3489.02	3499.98	3510		
80	PI/2 BPSK	1	1	20.14	20.20	20.25	21.0	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	20.11	20.18	20.15	21.0	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	20.18	20.18	20.24	21.0	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	20.13	20.14	20.26	21.0	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	20.16	20.20	20.22	21.0	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.98		
30	PI/2 BPSK	1	1	20.25	20.21	20.11	21.0	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	20.21	20.19	20.23	21.0	0.0





n78(Part 27Q) HPUE_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	3499.98	3499.98	3504.99			
100	PI/2 BPSK	1	137	20.19	20.19	20.25	21.0	0.0	
100	PI/2 BPSK	1	271	20.25	20.25	20.26	21.0	0.0	
100	PI/2 BPSK	135	0	20.17	20.17	20.24	21.0	0.0	
100	PI/2 BPSK	135	69	20.26	20.26	20.24	21.0	0.0	
100	PI/2 BPSK	135	138	20.24	20.24	20.24	21.0	0.0	
100	QPSK	1	1	3499.98	3499.98	3510			
100	QPSK	1	137	20.26	20.26	20.23	21.0	0.0	
100	QPSK	1	271	20.23	20.23	20.17	21.0	0.0	
100	QPSK	135	0	20.17	20.17	20.18	21.0	0.0	
100	QPSK	135	69	20.18	20.18	20.12	21.0	0.0	
100	QPSK	135	138	20.12	20.12	20.11	21.0	0.0	
100	16QAM	1	1	3499.98	3499.98	3540			
100	16QAM	1	1	20.02	20.02	20.13	21.0	0.0	
100	256QAM	1	1	20.13	20.13	20.13	21.0	0.0	
Channel									
Frequency (MHz)									
90	PI/2 BPSK	1	1	20.19	20.13	20.12	21.0	0.0	
Channel									
Frequency (MHz)									
80	PI/2 BPSK	1	1	20.14	20.20	20.25	21.0	0.0	
Channel									
Frequency (MHz)									
70	PI/2 BPSK	1	1	20.11	20.18	20.15	21.0	0.0	
Channel									
Frequency (MHz)									
60	PI/2 BPSK	1	1	3499.98	3499.98	3529.98			
Channel									
Frequency (MHz)									
50	PI/2 BPSK	1	1	20.13	20.14	20.26	21.0	0.0	
Channel									
Frequency (MHz)									
40	PI/2 BPSK	1	1	20.16	20.20	20.22	21.0	0.0	
Channel									
Frequency (MHz)									
30	PI/2 BPSK	1	1	20.25	20.21	20.11	21.0	0.0	
Channel									
Frequency (MHz)									
20	PI/2 BPSK	1	1	20.21	20.19	20.23	21.0	0.0	

n78(Part 27Q)_Ant 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	PI/2 BPSK	1	1	3499.98	3499.98	3504.99			
100	PI/2 BPSK	1	137	17.02	17.02	17.02	18.0	0.0	
100	PI/2 BPSK	1	271	17.00	17.00	17.00	18.0	0.0	
100	PI/2 BPSK	135	0	16.84	16.84	16.84	18.0	0.0	
100	PI/2 BPSK	135	69	17.04	17.04	16.95	18.0	0.0	
100	PI/2 BPSK	135	138	16.95	16.95	17.03	18.0	0.0	
100	QPSK	1	1	3499.98	3499.98	3510			
100	QPSK	1	137	17.02	17.02	16.74	18.0	0.0	
100	QPSK	1	271	16.89	16.89	16.89	18.0	0.0	
100	QPSK	135	0	16.86	16.86	16.86	18.0	0.0	
100	QPSK	135	69	16.96	16.96	17.02	18.0	0.0	
100	QPSK	135	138	17.02	17.02	16.83	18.0	0.0	
100	16QAM	1	1	3499.98	3499.98	3540			
100	16QAM	1	1	16.77	16.77	16.83	18.0	0.0	
100	256QAM	1	1	16.83	16.83	16.83	18.0	0.0	
Channel									
Frequency (MHz)									
90	PI/2 BPSK	1	1	17.02	17.03	17.02	18.0	0.0	
Channel									
Frequency (MHz)									
80	PI/2 BPSK	1	1	16.93	16.94	17.00	18.0	0.0	
Channel									
Frequency (MHz)									
70	PI/2 BPSK	1	1	17.00	17.02	16.94	18.0	0.0	
Channel									
Frequency (MHz)									
60	PI/2 BPSK	1	1	3499.98	3499.98	3519.99			
Channel									
Frequency (MHz)									
50	PI/2 BPSK	1	1	16.93	16.94	16.94	18.0	0.0	
Channel									
Frequency (MHz)									
40	PI/2 BPSK	1	1	16.94	16.93	16.93	18.0	0.0	
Channel									
Frequency (MHz)									
30	PI/2 BPSK	1	1	17.04	16.94	16.96	18.0	0.0	
Channel									
Frequency (MHz)									
20	PI/2 BPSK	1	1	17.02	16.98	17.02	18.0	0.0	



n78(Part 27Q) HPUE_Ant 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				633332					
Frequency (MHz)				3499.98	17.03				
100	PI/2 BPSK	1	1	17.02	17.03	17.02	18.0	0.0	
100	PI/2 BPSK	1	137	17.02					22.0
100	PI/2 BPSK	1	271	17.00					0.0
100	PI/2 BPSK	135	0	16.84			18.0	0.0	
100	PI/2 BPSK	135	69	17.04			18.0	0.0	
100	PI/2 BPSK	135	138	16.95			18.0	0.0	
100	PI/2 BPSK	270	0	17.03					22.0
100	QPSK	1	1	16.74			18.0	0.0	
100	QPSK	1	137	17.02					22.0
100	QPSK	1	271	16.89					0.0
100	QPSK	135	0	16.86			18.0	0.0	
100	QPSK	135	69	16.96					22.0
100	QPSK	135	138	17.02					0.0
100	QPSK	270	0	16.83			18.0	0.0	
100	16QAM	1	1	16.84			18.0	0.0	
100	64QAM	1	1	16.77			18.0	0.0	
100	256QAM	1	1	16.83			18.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99	18.0	0.0	
90	PI/2 BPSK	1	1	17.02	17.03	17.02	18.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3499.98	3510	18.0	0.0	
80	PI/2 BPSK	1	1	16.93	16.94	17.00	18.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98	18.0	0.0	
70	PI/2 BPSK	1	1	17.00	17.02	16.94	18.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490	3499.98	3519.99	18.0	0.0	
60	PI/2 BPSK	1	1	16.99	16.92	17.01	18.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525	18.0	0.0	
50	PI/2 BPSK	1	1	16.93	16.94	16.94	18.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98	18.0	0.0	
40	PI/2 BPSK	1	1	16.94	16.93	16.98	18.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99	18.0	0.0	
30	PI/2 BPSK	1	1	17.04	16.94	16.96	18.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540	18.0	0.0	
20	PI/2 BPSK	1	1	17.02	16.98	17.02	18.0	0.0	

n78(Part 27Q)_Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98	20.98				
100	PI/2 BPSK	1	1	20.95			22.0	0.0	
100	PI/2 BPSK	1	137	20.92					22.0
100	PI/2 BPSK	1	271	20.92					0.0
100	PI/2 BPSK	135	0	20.85			22.0	0.0	
100	PI/2 BPSK	135	69	20.94			22.0	0.0	
100	PI/2 BPSK	135	138	20.88			22.0	0.0	
100	PI/2 BPSK	270	0	20.92					22.0
100	QPSK	1	1	20.84			22.0	0.0	
100	QPSK	1	137	20.95					22.0
100	QPSK	1	271	20.93					0.0
100	QPSK	135	0	20.86			22.0	0.0	
100	QPSK	135	69	20.86					22.0
100	QPSK	135	138	20.84					0.0
100	QPSK	270	0	20.75			22.0	0.0	
100	16QAM	1	1	20.84			22.0	0.0	
100	64QAM	1	1	20.76			21.5	0.5	
100	256QAM	1	1	20.88			19.5	2.5	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99	22.0	0.0	
90	PI/2 BPSK	1	1	20.91	20.80	20.89	22.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3490.02	3499.98	3510	22.0	0.0	
80	PI/2 BPSK	1	1	20.82	20.85	20.94	22.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98	22.0	0.0	
70	PI/2 BPSK	1	1	20.89	20.81	20.85	22.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99	22.0	0.0	
60	PI/2 BPSK	1	1	20.93	20.82	20.79	22.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525	22.0	0.0	
50	PI/2 BPSK	1	1	20.79	20.82	20.79	22.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98	22.0	0.0	
40	PI/2 BPSK	1	1	20.83	20.92	20.85	22.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99	22.0	0.0	
30	PI/2 BPSK	1	1	20.86	20.76	20.79	22.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540	22.0	0.0	
20	PI/2 BPSK	1	1	20.91	20.87	20.78	22.0	0.0	



n78(Part 27Q) HPUE_Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332				
Frequency (MHz)				3499.98	20.95			
100	PI/2 BPSK	1	1		20.95		22.0	0.0
100	PI/2 BPSK	1	137		20.92			
100	PI/2 BPSK	1	271		20.94		22.0	0.0
100	PI/2 BPSK	135	0		20.85		22.0	0.0
100	PI/2 BPSK	135	69		20.94		22.0	0.0
100	PI/2 BPSK	135	138		20.88		22.0	0.0
100	PI/2 BPSK	270	0		20.92		22.0	0.0
100	QPSK	1	1		20.84		22.0	0.0
100	QPSK	1	137		20.95		22.0	0.0
100	QPSK	1	271		20.93		22.0	0.0
100	QPSK	135	0		20.86		22.0	0.0
100	QPSK	135	69		20.88		22.0	0.0
100	QPSK	135	138		20.84		22.0	0.0
100	QPSK	270	0		20.75		22.0	0.0
100	16QAM	1	1		20.84		21.5	0.5
100	64QAM	1	1		20.76		21.5	0.5
100	256QAM	1	1		20.88		19.5	2.5
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	20.91	20.80	20.89	22.0	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3492.02	3499.98	3510		
80	PI/2 BPSK	1	1	20.82	20.85	20.94	22.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	20.89	20.81	20.85	22.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	20.93	20.82	20.79	22.0	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	20.79	20.82	20.79	22.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	20.83	20.82	20.96	22.0	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	20.86	20.76	20.79	22.0	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	20.91	20.87	20.78	22.0	0.0

n78(Part 27Q)_Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332				
Frequency (MHz)				3499.98	19.09			
100	PI/2 BPSK	1	1		19.09		20.5	0.0
100	PI/2 BPSK	1	137		19.06			
100	PI/2 BPSK	1	271		18.99		19.04	0.0
100	PI/2 BPSK	135	0		19.04		20.5	0.0
100	PI/2 BPSK	135	69		19.07		20.5	0.0
100	PI/2 BPSK	135	138		19.05		20.5	0.0
100	PI/2 BPSK	270	0		19.05		20.5	0.0
100	QPSK	1	1		19.06		20.5	0.0
100	QPSK	1	137		19.07		20.5	0.0
100	QPSK	1	271		19.02		20.5	0.0
100	QPSK	135	0		19.05		20.5	0.0
100	QPSK	135	69		18.99		20.5	0.0
100	QPSK	135	138		19.00		20.5	0.0
100	QPSK	270	0		19.02		20.5	0.0
100	16QAM	1	1		19.04		20.5	0.0
100	64QAM	1	1		19.00		20.5	0.0
100	256QAM	1	1		18.35		19.5	1.0
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	18.87	18.86	18.80	20.5	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3492.02	3499.98	3510		
80	PI/2 BPSK	1	1	18.96	18.90	18.83	20.5	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	18.87	18.94	18.84	20.5	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	18.82	18.89	18.87	20.5	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	18.91	18.84	18.83	20.5	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	18.93	18.87	18.83	20.5	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	18.85	18.87	18.85	20.5	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	18.81	18.87	18.88	20.5	0.0



### n78(Part 27Q) HPUe\_Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
100	PI/2 BPSK	1	1	18.87	18.86	18.80	20.5	0.0
100	PI/2 BPSK	1	137		19.06		20.5	0.0
100	PI/2 BPSK	1	271		18.99		20.5	0.0
100	PI/2 BPSK	135	0		19.04		20.5	0.0
100	PI/2 BPSK	135	69		19.07		20.5	0.0
100	PI/2 BPSK	135	138		19.05		20.5	0.0
100	PI/2 BPSK	270	0		19.05		20.5	0.0
100	QPSK	1	1		19.06		20.5	0.0
100	QPSK	1	137		19.07		20.5	0.0
100	QPSK	1	271		19.02		20.5	0.0
100	QPSK	135	0		19.05		20.5	0.0
100	QPSK	135	69		18.99		20.5	0.0
100	QPSK	135	138		19.00		20.5	0.0
100	QPSK	270	0		19.02		20.5	0.0
100	16QAM	1	1		19.04		20.5	0.0
100	64QAM	1	1		19.00		20.5	0.0
100	256QAM	1	1		18.35		20.5	0.0
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	18.87	18.86	18.80	20.5	0.0
Channel				632666	633332	634000		
Frequency (MHz)				3495.02	3499.98	3510		
80	PI/2 BPSK	1	1	18.96	18.90	18.83	20.5	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	18.87	18.94	18.84	20.5	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3490	3499.98	3519.99		
60	PI/2 BPSK	1	1	18.82	18.89	18.87	20.5	0.0
Channel				631666	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	18.91	18.84	18.83	20.5	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	18.93	18.87	18.92	20.5	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	18.85	18.87	18.85	20.5	0.0
Channel				630666	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	18.81	18.87	18.88	20.5	0.0



Reduced Power DS13-Simultaneous

n2_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				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	17.12	17.21	17.14	18.0	0.0
20	PI/2 BPSK	1	53	17.00	17.05	17.04		
20	PI/2 BPSK	1	104	16.90	17.02	16.90		
20	PI/2 BPSK	50	0	16.77	16.91	16.89	18.0	0.0
20	PI/2 BPSK	50	25	17.10	17.20	17.11	18.0	0.0
20	PI/2 BPSK	50	58	16.78	16.99	16.81	18.0	0.0
20	PI/2 BPSK	100	0	17.05	17.18	17.07		
20	PI/2 BPSK	100	1	16.91	16.95	16.76		
20	QPSK	1	1	16.91	16.95	16.76	18.0	0.0
20	QPSK	1	53	16.74	16.87	16.84		
20	QPSK	1	104	16.83	16.92	16.79		
20	QPSK	50	0	16.83	16.94	16.81	18.0	0.0
20	QPSK	50	25	16.88	16.99	16.81	18.0	0.0
20	QPSK	50	58	16.88	16.95	16.83	18.0	0.0
20	QPSK	100	0	16.93	16.97	16.85		
20	QPSK	100	1	16.95	17.01	16.97		
20	16QAM	1	1	16.95	17.01	16.97	18.0	0.0
20	64QAM	1	1	16.81	16.83	16.79	18.0	0.0
20	256QAM	1	1	17.04	17.07	16.99	18.0	0.0
Channel				371500	376000	380500	Tune-up limit	MPR
Frequency (MHz)				1857.5	1880	1902.5	(dBm)	(dB)
15	PI/2 BPSK	1	1	17.02	17.04	17.00	18.0	0.0
Channel				371000	376000	381000	Tune-up limit	MPR
Frequency (MHz)				1855	1880	1905	(dBm)	(dB)
10	PI/2 BPSK	1	1	16.96	17.06	16.95	18.0	0.0
Channel				370500	376000	381500	Tune-up limit	MPR
Frequency (MHz)				1852.5	1880	1907.5	(dBm)	(dB)
5	PI/2 BPSK	1	1	17.02	17.19	17.08	18.0	0.0

n5_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				165000	167000	169000		
Frequency (MHz)				834	836.5	839		
20	PI/2 BPSK	1	1	23.11	23.19	23.02	24.0	0.0
20	PI/2 BPSK	1	53	22.97	22.87	22.91		
20	PI/2 BPSK	1	104	22.87	22.76	22.81		
20	PI/2 BPSK	50	0	22.52	22.48	22.45	23.5	0.5
20	PI/2 BPSK	50	25	22.93	22.94	22.91	23.5	0.5
20	PI/2 BPSK	50	58	22.36	22.35	22.32		
20	PI/2 BPSK	100	0	22.47	22.48	22.46		
20	QPSK	1	1	22.89	23.03	22.91	24.0	0.0
20	QPSK	1	53	22.77	22.82	22.77		
20	QPSK	1	104	22.66	22.77	22.62		
20	QPSK	50	0	21.79	21.95	21.84	23.0	1.0
20	QPSK	50	25	22.76	22.85	22.76	23.0	1.0
20	QPSK	50	58	21.65	21.84	21.76		
20	QPSK	100	0	21.89	21.97	21.82		
20	16QAM	1	1	22.05	22.21	22.05	23.0	1.0
20	64QAM	1	1	20.18	20.23	20.17	23.5	2.5
20	256QAM	1	1	18.66	18.76	18.65	19.5	4.5
Channel				166300	167300	168300	Tune-up limit	MPR
Frequency (MHz)				831.5	836.5	841.5	(dBm)	(dB)
15	PI/2 BPSK	1	1	23.07	23.18	23.01	24.0	0.0
Channel				165800	167300	168800	Tune-up limit	MPR
Frequency (MHz)				829	836.5	844	(dBm)	(dB)
10	PI/2 BPSK	1	1	23.04	22.89	22.96	24.0	0.0
Channel				165300	167300	169300	Tune-up limit	MPR
Frequency (MHz)				826.5	836.5	846.5	(dBm)	(dB)
5	PI/2 BPSK	1	1	23.11	23.02	22.96	24.0	0.0



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				50000	50700	51000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	15.55	15.60	15.46			
40	PI/2 BPSK	1	108	15.50	15.53	15.40	16.5	0.0	
40	PI/2 BPSK	1	214	15.49	15.55	15.43			
40	PI/2 BPSK	108	0	15.40	15.43	15.44	16.5	0.0	
40	PI/2 BPSK	108	54	15.50	15.38	15.43	16.5	0.0	
40	PI/2 BPSK	108	108	15.33	15.31	15.06	16.5	0.0	
40	PI/2 BPSK	216	0	15.48	15.57	15.41			
40	QPSK	1	1	15.26	15.44	15.25			
40	QPSK	1	108	15.22	15.33	15.26	16.5	0.0	
40	QPSK	1	214	15.21	15.38	15.30			
40	QPSK	108	0	15.12	15.32	15.32	16.5	0.0	
40	QPSK	108	54	15.20	15.28	15.14	16.5	0.0	
40	QPSK	108	108	15.24	15.27	15.09	16.5	0.0	
40	QPSK	216	0	15.14	15.25	15.12			
40	16QAM	1	1	15.40	15.52	15.33	16.5	0.0	
40	64QAM	1	1	15.17	15.28	15.26	16.5	0.0	
40	256QAM	1	1	15.31	15.37	15.20	16.5	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI/2 BPSK	1	1	15.40	15.58	15.27	16.5	0.0	
Channel				502500	507000	511500	IAEmAEAE (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	PI/2 BPSK	1	1	15.55	15.50	15.40	16.5	0.0	
Channel				502000	507000	512000	IAEmAEAE (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	15.41	15.50	15.32	16.5	0.0	
Channel				501500	507000	512500	IAEmAEI (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI/2 BPSK	1	1	15.36	15.56	15.23	16.5	0.0	
Channel				501000	507000	513000	IAEmAEI (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI/2 BPSK	1	1	15.32	15.58	15.21	16.5	0.0	
Channel				500500	507000	513500	IAEmAEI (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI/2 BPSK	1	1	15.49	15.56	15.16	16.5	0.0	

n7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				50000	50700	51000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	15.94	15.97	15.90			
40	PI/2 BPSK	1	108	15.90	15.92	15.85	17.0	0.0	
40	PI/2 BPSK	1	214	15.59	15.87	15.84			
40	PI/2 BPSK	108	0	15.84	15.84	15.87	17.0	0.0	
40	PI/2 BPSK	108	54	15.91	15.95	15.88	17.0	0.0	
40	PI/2 BPSK	108	108	15.60	15.88	15.84	17.0	0.0	
40	PI/2 BPSK	216	0	15.90	15.93	15.85			
40	QPSK	1	1	15.73	15.90	15.75			
40	QPSK	1	108	15.94	15.87	15.63	17.0	0.0	
40	QPSK	1	214	15.68	15.84	15.70			
40	QPSK	108	0	15.83	15.85	15.86	17.0	0.0	
40	QPSK	108	54	15.61	15.86	15.84	17.0	0.0	
40	QPSK	108	108	15.83	15.84	15.94	17.0	0.0	
40	QPSK	216	0	15.94	15.91	15.91			
40	16QAM	1	1	15.72	15.90	15.72	17.0	0.0	
40	64QAM	1	1	15.55	15.69	15.87	17.0	0.0	
40	256QAM	1	1	15.92	15.95	15.49	17.0	0.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2518	2535	2555			
30	PI/2 BPSK	1	1	15.75	15.90	15.81	17.0	0.0	
Channel				502500	507000	511500	IAEmAEAE (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	PI/2 BPSK	1	1	15.78	15.94	15.70	17.0	0.0	
Channel				502000	507000	512000	IAEmAEAE (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	15.77	15.83	15.72	17.0	0.0	
Channel				501500	507000	512500	IAEmAEI (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI/2 BPSK	1	1	15.91	15.69	15.70	17.0	0.0	
Channel				501000	507000	513000	IAEmAEI (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI/2 BPSK	1	1	15.71	15.77	15.71	17.0	0.0	
Channel				500500	507000	513500	IAEmAEI (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI/2 BPSK	1	1	15.89	15.84	15.81	17.0	0.0	



n66_Ant 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				348000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	16.64	16.73	16.55		
40	PI/2 BPSK	1	108	16.45	16.55	16.50	17.5	0.0
40	PI/2 BPSK	1	214	16.56	16.65	16.33		
40	PI/2 BPSK	108	0	16.46	16.64	16.45	17.5	0.0
40	PI/2 BPSK	108	54	16.60	16.71	16.52	17.5	0.0
40	PI/2 BPSK	108	108	16.52	16.54	16.31	17.5	0.0
40	PI/2 BPSK	216	0	16.56	16.70	16.50		
40	QPSK	1	1	16.33	16.48	16.46		
40	QPSK	1	108	16.40	16.57	16.39	17.5	0.0
40	QPSK	1	214	16.21	16.32	16.23		
40	QPSK	108	0	16.27	16.42	16.39	17.5	0.0
40	QPSK	108	54	16.43	16.46	16.29	17.5	0.0
40	QPSK	108	108	16.42	16.48	16.47	17.5	0.0
40	QPSK	216	0	16.25	16.36	16.21		
40	16QAM	1	1	16.49	16.57	16.54	17.5	0.0
40	64QAM	1	1	16.21	16.30	16.14	17.5	0.0
40	256QAM	1	1	16.24	16.41	16.23	17.5	0.0
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	16.58	16.61	16.52	17.5	0.0
Channel				344000	349000	354000	Inter-Op IAPM/APM (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	16.48	16.69	16.50	17.5	0.0
Channel				343500	349000	354500	Inter-Op IAPM/APM (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI/2 BPSK	1	1	16.52	16.56	16.55	17.5	0.0
Channel				343000	349000	353000	Inter-Op IAPM/APM (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	16.61	16.56	16.40	17.5	0.0
Channel				342500	349000	355500	Inter-Op IAPM/APM (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	16.59	16.54	16.51	17.5	0.0



n38_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				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	15.52	15.84	15.69			
40	PI/2 BPSK	1	53	15.60	15.50	15.54	16.5	0.0	
40	PI/2 BPSK	1	104	15.44	15.41	15.49			
40	PI/2 BPSK	50	0	15.17	15.55	15.51	16.5	0.0	
40	PI/2 BPSK	50	28	15.58	15.82	15.65	16.5	0.0	
40	PI/2 BPSK	50	56	15.56	15.68	15.54			
40	PI/2 BPSK	100	0	15.55	15.80	15.62	16.5	0.0	
40	QPSK	1	1	15.36	15.44	15.52			
40	QPSK	1	53	15.39	15.48	15.45	16.5	0.0	
40	QPSK	1	104	15.54	15.63	15.66			
40	QPSK	50	0	15.55	15.61	15.26			
40	QPSK	50	28	15.50	15.39	15.50	16.5	0.0	
40	QPSK	50	56	15.47	15.68	15.66			
40	QPSK	100	0	15.60	15.52	15.37	16.5	0.0	
40	16QAM	1	1	15.44	15.27	15.47	16.5	0.0	
40	64QAM	1	1	15.05	15.27	14.98	16.5	0.0	
40	256QAM	1	1	14.92	15.15	15.02	16.5	0.0	
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2585.01	2595	2604.99	16.5	0.0	
30	PI/2 BPSK	1	1				16.5	0.0	
Channel				516000	519000	522000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2480	2595	2610	16.5	0.0	
20	PI/2 BPSK	1	1				16.5	0.0	

n78(Part 27Q)_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						633332			
Frequency (MHz)						3199.98			
100	PI/2 BPSK	1	1			16.24			
100	PI/2 BPSK	1	137			16.23			
100	PI/2 BPSK	1	271			16.16	17.0	0.0	
100	PI/2 BPSK	135	0			16.21			0.0
100	PI/2 BPSK	135	69			16.22	17.0	0.0	
100	PI/2 BPSK	135	138			16.17			0.0
100	PI/2 BPSK	270	0			16.20	17.0	0.0	
100	QPSK	1	1			16.18			
100	QPSK	1	137			16.12	17.0	0.0	
100	QPSK	1	271			16.04			
100	QPSK	135	0			16.13			
100	QPSK	135	69			16.09	17.0	0.0	
100	QPSK	135	138			16.10			
100	QPSK	270	0			16.05	17.0	0.0	
100	16QAM	1	1			16.08	17.0	0.0	
100	64QAM	1	1			16.07	17.0	0.0	
100	256QAM	1	1			16.16	17.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	16.05	16.05	16.12	17.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480.02	3499.98	3510			
80	PI/2 BPSK	1	1	16.09	16.20	16.20	17.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	16.04	16.15	16.13	17.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	16.05	16.17	16.01	17.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	16.13	16.17	16.01	17.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	16.06	16.14	15.96	17.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.98			
30	PI/2 BPSK	1	1	16.03	16.01	16.06	17.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	16.08	16.07	16.16	17.0	0.0	





n78(Part 27Q) HPUE_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI/2 BPSK	1	1	3499.98	3499.98	3504.99	0.0
100	PI/2 BPSK	1	137	16.23	16.23	16.23	17.0
100	PI/2 BPSK	1	271	16.16	16.16	16.16	0.0
100	PI/2 BPSK	135	0	16.21	16.21	16.21	17.0
100	PI/2 BPSK	135	69	16.22	16.22	16.22	0.0
100	PI/2 BPSK	135	138	16.17	16.17	16.17	17.0
100	PI/2 BPSK	270	0	16.20	16.20	16.20	0.0
100	QPSK	1	1	16.16	16.16	16.16	17.0
100	QPSK	1	137	16.12	16.12	16.12	0.0
100	QPSK	1	271	16.04	16.04	16.04	17.0
100	QPSK	135	0	16.13	16.13	16.13	0.0
100	QPSK	135	69	16.09	16.09	16.09	17.0
100	QPSK	135	138	16.10	16.10	16.10	0.0
100	QPSK	270	0	16.05	16.05	16.05	17.0
100	16QAM	1	1	16.06	16.06	16.06	0.0
100	16QAM	1	1	16.07	16.07	16.07	17.0
100	256QAM	1	1	16.16	16.16	16.16	0.0
Channel							
Frequency (MHz)							
90	PI/2 BPSK	1	1	16.05	16.05	16.12	17.0
Channel							
Frequency (MHz)							
80	PI/2 BPSK	1	1	16.09	16.20	16.20	17.0
Channel							
Frequency (MHz)							
70	PI/2 BPSK	1	1	16.04	16.15	16.13	17.0
Channel							
Frequency (MHz)							
60	PI/2 BPSK	1	1	16.05	16.17	16.01	17.0
Channel							
Frequency (MHz)							
50	PI/2 BPSK	1	1	16.13	16.17	16.01	17.0
Channel							
Frequency (MHz)							
40	PI/2 BPSK	1	1	16.06	16.14	16.96	17.0
Channel							
Frequency (MHz)							
30	PI/2 BPSK	1	1	16.03	16.01	16.08	17.0
Channel							
Frequency (MHz)							
20	PI/2 BPSK	1	1	16.08	16.07	16.16	17.0

n78(Part 27Q)_Ant 4							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MPR (dB)
Channel							
Frequency (MHz)							
100	PI/2 BPSK	1	1	3499.98	3499.98	3504.99	0.0
100	PI/2 BPSK	1	137	11.51	11.51	11.51	12.5
100	PI/2 BPSK	1	271	11.45	11.45	11.45	0.0
100	PI/2 BPSK	135	0	11.30	11.30	11.30	12.5
100	PI/2 BPSK	135	69	11.53	11.53	11.53	0.0
100	PI/2 BPSK	135	138	11.41	11.41	11.41	12.5
100	PI/2 BPSK	270	0	11.52	11.52	11.52	0.0
100	QPSK	1	1	11.29	11.29	11.29	12.5
100	QPSK	1	137	11.54	11.54	11.54	0.0
100	QPSK	1	271	11.42	11.42	11.42	12.5
100	QPSK	135	0	11.34	11.34	11.34	0.0
100	QPSK	135	69	11.52	11.52	11.52	12.5
100	QPSK	135	138	11.48	11.48	11.48	0.0
100	QPSK	270	0	11.53	11.53	11.53	12.5
100	16QAM	1	1	11.23	11.23	11.23	0.0
100	16QAM	1	1	11.19	11.19	11.19	12.5
100	256QAM	1	1	11.38	11.38	11.38	0.0
Channel							
Frequency (MHz)							
90	PI/2 BPSK	1	1	11.50	11.53	11.54	12.5
Channel							
Frequency (MHz)							
80	PI/2 BPSK	1	1	11.54	11.45	11.43	12.5
Channel							
Frequency (MHz)							
70	PI/2 BPSK	1	1	11.37	11.40	11.44	12.5
Channel							
Frequency (MHz)							
60	PI/2 BPSK	1	1	11.36	11.49	11.52	12.5
Channel							
Frequency (MHz)							
50	PI/2 BPSK	1	1	11.35	11.53	11.45	12.5
Channel							
Frequency (MHz)							
40	PI/2 BPSK	1	1	11.37	11.37	11.35	12.5
Channel							
Frequency (MHz)							
30	PI/2 BPSK	1	1	11.54	11.42	11.47	12.5
Channel							
Frequency (MHz)							
20	PI/2 BPSK	1	1	11.50	11.44	11.41	12.5



n78(Part 27Q) HPUE_Ant 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				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	11.53					
100	PI/2 BPSK	1	137	11.51			12.5	0.0	
100	PI/2 BPSK	1	271	11.45					
100	PI/2 BPSK	135	0	11.30			12.5	0.0	
100	PI/2 BPSK	135	69	11.53			12.5	0.0	
100	PI/2 BPSK	135	138	11.41			12.5	0.0	
100	PI/2 BPSK	270	0	11.52					
100	QPSK	1	1	11.29					
100	QPSK	1	137	11.54			12.5	0.0	
100	QPSK	1	271	11.42					
100	QPSK	135	0	11.34					
100	QPSK	135	69	11.52			12.5	0.0	
100	QPSK	135	138	11.48					
100	QPSK	270	0	11.53			12.5	0.0	
100	16QAM	1	1	11.23			12.5	0.0	
100	64QAM	1	1	11.19			12.5	0.0	
100	256QAM	1	1	11.38			12.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	11.50	11.53	11.54	12.5	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3499.98	3510			
80	PI/2 BPSK	1	1	11.54	11.45	11.43	12.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	11.37	11.40	11.44	12.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	11.36	11.40	11.52	12.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	11.35	11.53	11.45	12.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	11.37	11.37	11.35	12.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	PI/2 BPSK	1	1	11.54	11.42	11.47	12.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	11.50	11.44	11.41	12.5	0.0	

n78(Part 27Q)_Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	18.15					
100	PI/2 BPSK	1	137	18.09			19.0	0.0	
100	PI/2 BPSK	1	271	18.13					
100	PI/2 BPSK	135	0	18.12			19.0	0.0	
100	PI/2 BPSK	135	69	18.13			19.0	0.0	
100	PI/2 BPSK	135	138	18.01			19.0	0.0	
100	PI/2 BPSK	270	0	18.12					
100	QPSK	1	1	18.02					
100	QPSK	1	137	18.10			19.0	0.0	
100	QPSK	1	271	18.08					
100	QPSK	135	0	17.99					
100	QPSK	135	69	18.00			19.0	0.0	
100	QPSK	135	138	17.98					
100	QPSK	270	0	17.94			19.0	0.0	
100	16QAM	1	1	17.97			19.0	0.0	
100	64QAM	1	1	17.91			19.0	0.0	
100	256QAM	1	1	18.08			19.0	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	17.68	17.97	17.78	19.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3499.98	3510			
80	PI/2 BPSK	1	1	17.86	18.13	18.11	19.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	17.56	18.02	18.06	19.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	17.83	17.88	17.86	19.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	17.66	18.00	17.86	19.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	17.87	17.83	17.89	19.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	PI/2 BPSK	1	1	17.80	18.10	17.78	19.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	17.85	17.99	18.00	19.0	0.0	



n78(Part 27Q) HPUE_Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332				
Frequency (MHz)				3499.98				
100	PI/2 BPSK	1	1	18.15				
100	PI/2 BPSK	1	137	18.09			19.0	0.0
100	PI/2 BPSK	1	271	18.13				
100	PI/2 BPSK	135	0	18.12			19.0	0.0
100	PI/2 BPSK	135	69	18.13			19.0	0.0
100	PI/2 BPSK	135	138	18.01				
100	PI/2 BPSK	270	0	18.12			19.0	0.0
100	QPSK	1	1	18.02				
100	QPSK	1	137	18.10			19.0	0.0
100	QPSK	1	271	18.08				
100	QPSK	135	0	17.99				
100	QPSK	135	69	18.00			19.0	0.0
100	QPSK	135	138	17.98				
100	QPSK	270	0	17.84			19.0	0.0
100	16QAM	1	1	17.97			19.0	0.0
100	64QAM	1	1	17.91			19.0	0.0
100	256QAM	1	1	18.08			19.0	0.0
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	17.68	17.97	17.78	19.0	0.0
Channel				632688	633332	634000		
Frequency (MHz)				3493.02	3499.98	3510		
80	PI/2 BPSK	1	1	17.86	18.13	18.11	19.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	17.56	18.02	18.06	19.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	17.88	17.88	17.58	19.0	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	17.66	18.00	17.86	19.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	17.67	17.83	17.89	19.0	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	17.80	18.10	17.78	19.0	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	17.85	17.99	18.00	19.0	0.0

n78(Part 27Q)_Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332				
Frequency (MHz)				3499.98				
100	PI/2 BPSK	1	1	19.09				
100	PI/2 BPSK	1	137	19.06			20.5	0.0
100	PI/2 BPSK	1	271	18.99				
100	PI/2 BPSK	135	0	19.04			20.5	0.0
100	PI/2 BPSK	135	69	19.07			20.5	0.0
100	PI/2 BPSK	135	138	19.05				
100	PI/2 BPSK	270	0	19.05			20.5	0.0
100	QPSK	1	1	19.06				
100	QPSK	1	137	19.07			20.5	0.0
100	QPSK	1	271	19.02				
100	QPSK	135	0	19.05				
100	QPSK	135	69	18.99			20.5	0.0
100	QPSK	135	138	19.00				
100	QPSK	270	0	19.02			20.5	0.0
100	16QAM	1	1	19.04			20.5	0.0
100	64QAM	1	1	19.00			20.5	0.0
100	256QAM	1	1	18.35			19.5	1.0
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	18.87	18.86	18.80	20.5	0.0
Channel				632688	633332	634000		
Frequency (MHz)				3493.02	3499.98	3510		
80	PI/2 BPSK	1	1	18.96	18.90	18.83	20.5	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	18.87	18.84	18.84	20.5	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	18.82	18.59	18.87	20.5	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	18.91	18.84	18.83	20.5	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	18.93	18.87	18.93	20.5	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	18.85	18.87	18.85	20.5	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	18.81	18.87	18.88	20.5	0.0



### n78(Part 27Q) HPUE\_Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332	633332		
Frequency (MHz)				3499.98	3499.98	3499.98		
100	PI/2 BPSK	1	1	19.09			20.5	0.0
100	PI/2 BPSK	1	137	19.06				
100	PI/2 BPSK	1	271	18.99				
100	PI/2 BPSK	135	0	19.04			20.5	0.0
100	PI/2 BPSK	135	69	19.07			20.5	0.0
100	PI/2 BPSK	135	138	19.05			20.5	0.0
100	PI/2 BPSK	270	0	19.05				
100	QPSK	1	1	19.06			20.5	0.0
100	QPSK	1	137	19.07				
100	QPSK	1	271	19.02				
100	QPSK	135	0	19.05			20.5	0.0
100	QPSK	135	69	18.99				
100	QPSK	135	138	19.00				
100	QPSK	270	0	19.02			20.5	0.0
100	16QAM	1	1	19.04			20.5	0.0
100	64QAM	1	1	19.00			20.5	0.0
100	256QAM	1	1	18.35			20.5	0.0
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	18.87	18.86	18.80	20.5	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3499.92	3499.98	3510		
80	PI/2 BPSK	1	1	18.96	18.90	18.83	20.5	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3486.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	18.87	18.94	18.84	20.5	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3490	3499.98	3519.99		
60	PI/2 BPSK	1	1	18.82	18.89	18.87	20.5	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	18.91	18.84	18.83	20.5	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	18.89	18.87	18.83	20.5	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	18.85	18.87	18.85	20.5	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	18.81	18.87	18.88	20.5	0.0



Reduced Power DS16-Standalone

n2_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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	21.04	21.12	20.95			
20	PI/2 BPSK	1	53	21.02	21.06	20.86	22.0	0.0	
20	PI/2 BPSK	1	104	20.95	21.05	20.86			
20	PI/2 BPSK	50	0	20.93	20.97	20.81	22.0	0.0	
20	PI/2 BPSK	50	28	21.01	21.10	20.93	22.0	0.0	
20	PI/2 BPSK	50	56	20.85	21.01	20.91	22.0	0.0	
20	PI/2 BPSK	100	0	20.99	21.09	21.00			
20	QPSK	1	1	21.05	21.09	21.09			
20	QPSK	1	53	20.94	21.08	20.92	22.0	0.0	
20	QPSK	1	104	20.79	20.99	20.95			
20	QPSK	50	0	20.98	21.04	21.03	22.0	0.0	
20	QPSK	50	28	20.94	21.07	21.02	22.0	0.0	
20	QPSK	50	56	20.67	20.79	20.68	22.0	0.0	
20	QPSK	100	0	20.74	20.74	20.73			
20	16QAM	1	1	20.74	20.87	20.78	22.0	0.0	
20	64QAM	1	1	20.03	20.04	19.97	21.5	0.5	
20	256QAM	1	1	18.41	18.53	18.36	19.5	2.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5			
15	PI/2 BPSK	1	1	20.95	21.08	20.86	22.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905			
10	PI/2 BPSK	1	1	20.87	21.02	20.92	22.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5			
5	PI/2 BPSK	1	1	21.01	20.96	20.83	22.0	0.0	

n5_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				168000	167000	169000			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	23.11	23.19	23.02			
20	PI/2 BPSK	1	53	22.97	22.87	22.91	24.0	0.0	
20	PI/2 BPSK	1	104	22.87	22.76	22.81			
20	PI/2 BPSK	50	0	22.52	22.48	22.45	23.5	0.5	
20	PI/2 BPSK	50	28	22.93	22.94	22.91	24.0	0.0	
20	PI/2 BPSK	50	56	22.36	22.35	22.32	23.5	0.5	
20	PI/2 BPSK	100	0	22.47	22.48	22.46			
20	QPSK	1	1	22.89	23.03	22.91			
20	QPSK	1	53	22.77	22.92	22.77	24.0	0.0	
20	QPSK	1	104	22.66	22.77	22.62			
20	QPSK	50	0	21.79	21.95	21.84	23.0	1.0	
20	QPSK	50	28	22.76	22.88	22.76	24.0	0.0	
20	QPSK	50	56	21.68	21.84	21.78	23.0	1.0	
20	QPSK	100	0	21.89	21.97	21.82			
20	16QAM	1	1	22.05	22.21	22.05	23.0	1.0	
20	64QAM	1	1	20.18	20.23	20.17	21.5	2.5	
20	256QAM	1	1	18.66	18.76	18.65	19.5	4.5	
Channel				168300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	833.5	841.5			
15	PI/2 BPSK	1	1	23.07	23.18	23.01	24.0	0.0	
Channel				168800	167800	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844			
10	PI/2 BPSK	1	1	23.04	22.89	22.96	24.0	0.0	
Channel				168300	167300	169300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5			
5	PI/2 BPSK	1	1	23.11	23.02	22.96	24.0	0.0	





n66_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				348000	349000	352000			
Frequency (MHz)				1730	1745	1760			
40	PI/2 BPSK	1	1	20.80	20.84	20.71			
40	PI/2 BPSK	1	108	20.65	20.83	20.67	21.5	0.0	
40	PI/2 BPSK	1	214	20.56	20.63	20.53			
40	PI/2 BPSK	108	0	20.59	20.68	20.65	21.5	0.0	
40	PI/2 BPSK	108	54	20.77	20.82	20.58	21.5	0.0	
40	PI/2 BPSK	108	108	20.68	20.74	20.74	21.5	0.0	
40	PI/2 BPSK	216	0	20.74	20.81	20.67			
40	QPSK	1	1	20.63	20.66	20.59			
40	QPSK	1	108	20.58	20.77	20.72	21.5	0.0	
40	QPSK	1	214	20.51	20.53	20.37			
40	QPSK	108	0	20.69	20.70	20.57	21.5	0.0	
40	QPSK	108	54	20.60	20.73	20.67	21.5	0.0	
40	QPSK	108	108	20.56	20.67	20.50	21.5	0.0	
40	QPSK	216	0	20.57	20.61	20.47			
40	16QAM	1	1	20.69	20.83	20.80	21.5	0.0	
40	64QAM	1	1	20.39	20.57	20.51	21.5	0.0	
40	256QAM	1	1	18.85	18.94	18.78	19.5	2.0	
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1725	1745	1765			
30	PI/2 BPSK	1	1	20.65	20.75	20.63	21.5	0.0	
Channel				344000	349000	354000	Tune-up (dBm)	MPR (dB)	
Frequency (MHz)				1720	1745	1770			
20	PI/2 BPSK	1	1	20.79	20.76	20.79	21.5	0.0	
Channel				343500	349000	354500	Tune-up (dBm)	MPR (dB)	
Frequency (MHz)				1717.5	1745	1772.5			
15	PI/2 BPSK	1	1	20.70	20.75	20.84	21.5	0.0	
Channel				343000	349000	355000	Tune-up (dBm)	MPR (dB)	
Frequency (MHz)				1715	1745	1775			
10	PI/2 BPSK	1	1	20.62	20.74	20.64	21.5	0.0	
Channel				342500	349000	355500	Tune-up (dBm)	MPR (dB)	
Frequency (MHz)				1712.5	1745	1777.5			
5	PI/2 BPSK	1	1	20.72	20.78	20.60	21.5	0.0	



n38_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				518004	519000	519996			
Frequency (MHz)				2590.02	2595	2599.98			
40	PI/2 BPSK	1	1	21.55	21.65	21.58			
40	PI/2 BPSK	1	53	21.38	21.48	21.52	22.5	0.0	
40	PI/2 BPSK	1	104	21.35	21.57	21.42			
40	PI/2 BPSK	50	0	21.31	21.57	21.32	22.5	0.0	
40	PI/2 BPSK	50	28	21.52	21.63	21.55	22.5	0.0	
40	PI/2 BPSK	50	56	21.38	21.37	21.41			
40	PI/2 BPSK	100	0	21.50	21.61	21.53	22.5	0.0	
40	QPSK	1	1	21.22	21.40	21.27			
40	QPSK	1	53	21.20	21.38	21.32	22.5	0.0	
40	QPSK	1	104	21.41	21.50	21.30			
40	QPSK	50	0	21.15	21.29	21.12			
40	QPSK	50	28	21.18	21.36	21.17	22.5	0.0	
40	QPSK	50	56	21.23	21.40	21.27			
40	QPSK	100	0	21.35	21.35	21.35	22.5	0.0	
40	16QAM	1	1	21.26	21.40	21.25	22.5	0.0	
40	64QAM	1	1	20.13	20.15	20.04	21.5	1.0	
40	256QAM	1	1	18.94	19.00	18.80	19.5	3.0	
Channel				517002	519000	520998			
Frequency (MHz)				2585.01	2595	2604.99			
30	PI/2 BPSK	1	1	21.48	21.63	21.55	22.5	0.0	
Channel				516000	519000	520000			
Frequency (MHz)				2580	2585	2590			
20	PI/2 BPSK	1	1	21.43	21.62	21.54	22.5	0.0	

n78(Part 27Q)_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel						633332			
Frequency (MHz)						3499.98			
100	PI/2 BPSK	1	1			20.03			
100	PI/2 BPSK	1	137			19.94			
100	PI/2 BPSK	1	271			20.02	21.0	0.0	
100	PI/2 BPSK	135	0			19.92			
100	PI/2 BPSK	135	69			20.01	21.0	0.0	
100	PI/2 BPSK	135	138			19.99			
100	PI/2 BPSK	270	0			19.99	21.0	0.0	
100	QPSK	1	1			19.95			
100	QPSK	1	137			20.01	21.0	0.0	
100	QPSK	1	271			19.98			
100	QPSK	135	0			19.92			
100	QPSK	135	69			19.93	21.0	0.0	
100	QPSK	135	138			19.87			
100	QPSK	270	0			19.86	21.0	0.0	
100	16QAM	1	1			19.92	21.0	0.0	
100	64QAM	1	1			19.77	21.0	0.0	
100	256QAM	1	1			19.23	19.5	1.5	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	19.94	19.88	19.87	21.0	0.0	
Channel				632668	633332	634000			
Frequency (MHz)				3489.02	3499.98	3510			
80	PI/2 BPSK	1	1	19.89	19.95	20.00	21.0	0.0	
Channel				632334	633332	634332			
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	19.86	19.93	19.90	21.0	0.0	
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	19.93	19.93	19.99	21.0	0.0	
Channel				631668	633332	635000			
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	19.88	19.89	20.01	21.0	0.0	
Channel				631334	633332	635332			
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	19.91	19.95	20.00	21.0	0.0	
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3534.98			
30	PI/2 BPSK	1	1	20.00	19.96	19.86	21.0	0.0	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	19.96	19.94	19.96	21.0	0.0	





n78(Part 27Q) HPUE_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	20.03					
100	PI/2 BPSK	1	137	19.94			21.0	0.0	
100	PI/2 BPSK	1	271	20.02					
100	PI/2 BPSK	135	0	19.92			21.0	0.0	
100	PI/2 BPSK	135	69	20.01			21.0	0.0	
100	PI/2 BPSK	135	138	19.99			21.0	0.0	
100	PI/2 BPSK	270	0	19.98					
100	QPSK	1	1	19.95					
100	QPSK	1	137	20.01			21.0	0.0	
100	QPSK	1	271	19.98					
100	QPSK	135	0	19.92					
100	QPSK	135	69	19.93			21.0	0.0	
100	QPSK	135	138	19.87					
100	QPSK	270	0	19.86			21.0	0.0	
100	16QAM	1	1	19.92			21.0	0.0	
100	64QAM	1	1	19.77			21.0	0.0	
100	256QAM	1	1	19.85			21.0	0.0	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	19.94	19.88	19.87	21.0	0.0	
Channel				632668	633332	634000			
Frequency (MHz)				3499.02	3499.98	3510			
80	PI/2 BPSK	1	1	19.89	19.95	20.00	21.0	0.0	
Channel				632334	633332	634332			
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	19.86	19.93	19.90	21.0	0.0	
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	19.93	19.93	19.99	21.0	0.0	
Channel				631668	633332	635000			
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	19.88	19.89	20.01	21.0	0.0	
Channel				631334	633332	635332			
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	19.91	19.95	20.00	21.0	0.0	
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3534.99			
30	PI/2 BPSK	1	1	20.00	19.96	19.86	21.0	0.0	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	19.96	19.94	19.98	21.0	0.0	

n78(Part 27Q)_Ant 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				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	17.60					
100	PI/2 BPSK	1	137	17.45			18.5	0.0	
100	PI/2 BPSK	1	271	17.47					
100	PI/2 BPSK	135	0	17.39			18.5	0.0	
100	PI/2 BPSK	135	69	17.58			18.5	0.0	
100	PI/2 BPSK	135	138	17.56			18.5	0.0	
100	PI/2 BPSK	270	0	17.56					
100	QPSK	1	1	17.49					
100	QPSK	1	137	17.33			18.5	0.0	
100	QPSK	1	271	17.53					
100	QPSK	135	0	17.34					
100	QPSK	135	69	17.31			18.5	0.0	
100	QPSK	135	138	17.51					
100	QPSK	270	0	17.59			18.5	0.0	
100	16QAM	1	1	17.40			18.5	0.0	
100	64QAM	1	1	17.46			18.5	0.0	
100	256QAM	1	1	17.45			18.5	0.0	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	17.12	17.37	17.28	18.5	0.0	
Channel				632668	633332	634000			
Frequency (MHz)				3490.02	3499.98	3510			
80	PI/2 BPSK	1	1	17.39	17.33	17.52	18.5	0.0	
Channel				632334	633332	634332			
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	17.29	17.22	17.47	18.5	0.0	
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	17.13	17.33	17.38	18.5	0.0	
Channel				631668	633332	635000			
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	17.18	17.26	17.54	18.5	0.0	
Channel				631334	633332	635332			
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	17.15	17.30	17.52	18.5	0.0	
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3534.99			
30	PI/2 BPSK	1	1	17.20	17.47	17.31	18.5	0.0	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	17.34	17.20	17.47	18.5	0.0	



n78(Part 27Q) HPUE_Ant 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				633332	633332				
Frequency (MHz)				3499.98	3499.98				
100	PI/2 BPSK	1	1	17.50					
100	PI/2 BPSK	1	137	17.45			18.5	0.0	
100	PI/2 BPSK	1	271	17.47					
100	PI/2 BPSK	135	0	17.39			18.5	0.0	
100	PI/2 BPSK	135	69	17.58			18.5	0.0	
100	PI/2 BPSK	135	138	17.56			18.5	0.0	
100	PI/2 BPSK	270	0	17.56					
100	QPSK	1	1	17.49					
100	QPSK	1	137	17.33			18.5	0.0	
100	QPSK	1	271	17.53					
100	QPSK	135	0	17.34					
100	QPSK	135	69	17.31			18.5	0.0	
100	QPSK	135	138	17.51					
100	QPSK	270	0	17.59			18.5	0.0	
100	16QAM	1	1	17.40			18.5	0.0	
100	64QAM	1	1	17.46			18.5	0.0	
100	256QAM	1	1	17.45			18.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	17.12	17.37	17.28	18.5	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3499.98	3510			
80	PI/2 BPSK	1	1	17.39	17.33	17.52	18.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	17.29	17.22	17.47	18.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	17.13	17.33	17.38	18.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	17.18	17.26	17.54	18.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	17.15	17.30	17.52	18.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	PI/2 BPSK	1	1	17.20	17.47	17.31	18.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	17.34	17.20	17.47	18.5	0.0	

n78(Part 27Q)_Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332	633332				
Frequency (MHz)				3499.98	3499.98				
100	PI/2 BPSK	1	1	23.08					
100	PI/2 BPSK	1	137	23.03			24.0	0.0	
100	PI/2 BPSK	1	271	23.00					
100	PI/2 BPSK	135	0	22.99			23.5	0.5	
100	PI/2 BPSK	135	69	23.03			24.0	0.0	
100	PI/2 BPSK	135	138	23.02			23.5	0.5	
100	PI/2 BPSK	270	0	22.96					
100	QPSK	1	1	22.98					
100	QPSK	1	137	22.98			24.0	0.0	
100	QPSK	1	271	22.62					
100	QPSK	135	0	22.57					
100	QPSK	135	69	22.56			24.0	0.0	
100	QPSK	135	138	22.58					
100	QPSK	270	0	22.60			23.0	1.0	
100	16QAM	1	1	22.18			23.0	1.0	
100	64QAM	1	1	21.35			21.5	2.5	
100	256QAM	1	1	19.94			19.5	4.5	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	22.60	23.01	22.68	24.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3489.02	3499.98	3510			
80	PI/2 BPSK	1	1	22.60	22.94	22.60	24.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	22.55	22.99	22.61	24.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	22.55	22.98	22.81	24.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	22.49	22.97	22.63	24.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	22.61	23.02	22.62	24.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	PI/2 BPSK	1	1	22.57	22.91	22.67	24.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	22.57	22.93	22.65	24.0	0.0	



### n78(Part 27Q) HPUE\_Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332	633332		
Frequency (MHz)				3189.98	3189.98	3189.98		
100	PI/2 BPSK	1	1	23.03	23.03	23.03	24.0	0.0
100	PI/2 BPSK	1	137	23.03	23.03	23.03	24.0	0.0
100	PI/2 BPSK	1	271	23.00	23.00	23.00	24.0	0.0
100	PI/2 BPSK	135	0	22.99	22.99	22.99	24.0	0.0
100	PI/2 BPSK	135	69	23.03	23.03	23.03	24.0	0.0
100	PI/2 BPSK	135	138	23.02	23.02	23.02	24.0	0.0
100	PI/2 BPSK	270	0	22.98	22.98	22.98	24.0	0.0
100	QPSK	1	1	22.98	22.98	22.98	24.0	0.0
100	QPSK	1	137	22.98	22.98	22.98	24.0	0.0
100	QPSK	1	271	22.62	22.62	22.62	24.0	0.0
100	QPSK	135	0	22.57	22.57	22.57	24.0	0.0
100	QPSK	135	69	22.56	22.56	22.56	24.0	0.0
100	QPSK	135	138	22.58	22.58	22.58	24.0	0.0
100	QPSK	270	0	22.60	22.60	22.60	24.0	0.0
100	16QAM	1	1	22.18	22.18	22.18	24.0	0.0
100	64QAM	1	1	22.47	22.47	22.47	24.0	0.0
100	256QAM	1	1	20.55	20.55	20.55	22.5	1.5
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	22.60	23.01	22.68	24.0	0.0
Channel				632666	633332	634000		
Frequency (MHz)				3486.02	3499.98	3510		
80	PI/2 BPSK	1	1	22.60	22.94	22.60	24.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	22.55	22.99	22.61	24.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	22.55	22.98	22.61	24.0	0.0
Channel				631666	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	22.49	22.97	22.63	24.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	22.61	23.02	22.62	24.0	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	22.57	22.91	22.67	24.0	0.0
Channel				630666	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	22.57	22.93	22.65	24.0	0.0



Reduced Power DSI6-Simultaneous

n2_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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	20.94	21.22	20.85			
20	PI/2 BPSK	1	53	21.16	21.16	21.15	22.0	0.0	
20	PI/2 BPSK	1	104	20.98	21.15	20.96			
20	PI/2 BPSK	50	0	20.94	21.07	20.91	22.0	0.0	
20	PI/2 BPSK	50	28	20.98	21.13	20.97	22.0	0.0	
20	PI/2 BPSK	50	56	20.96	21.11	20.97	22.0	0.0	
20	PI/2 BPSK	100	0	21.02	21.15	21.04			
20	QPSK	1	1	21.19	21.19	21.04			
20	QPSK	1	53	21.07	21.18	21.11	22.0	0.0	
20	QPSK	1	104	20.93	21.09	20.89			
20	QPSK	50	0	20.97	21.14	20.94	22.0	0.0	
20	QPSK	50	28	20.99	21.17	21.12	22.0	0.0	
20	QPSK	50	56	20.71	20.89	20.85			
20	QPSK	100	0	20.79	20.84	20.81	22.0	0.0	
20	16QAM	1	1	20.86	20.97	20.95	22.0	0.0	
20	84QAM	1	1	19.96	20.14	19.95	21.5	0.5	
20	256QAM	1	1	18.55	18.83	18.48	19.5	2.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1857.5	1880	1902.5			
15	PI/2 BPSK	1	1	20.97	21.02	21.09	22.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1855	1880	1905			
10	PI/2 BPSK	1	1	21.16	21.05	21.14	22.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR	
Frequency (MHz)				1852.5	1880	1907.5			
5	PI/2 BPSK	1	1	21.08	21.10	21.00	22.0	0.0	

n5_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				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	23.11	23.19	23.02			
20	PI/2 BPSK	1	53	22.97	22.87	22.91	24.0	0.0	
20	PI/2 BPSK	1	104	22.87	22.76	22.81			
20	PI/2 BPSK	50	0	22.52	22.48	22.45	23.5	0.5	
20	PI/2 BPSK	50	28	22.93	22.94	22.91	24.0	0.0	
20	PI/2 BPSK	50	56	22.38	22.35	22.32			
20	PI/2 BPSK	100	0	22.47	22.48	22.46	23.5	0.5	
20	QPSK	1	1	22.89	23.03	22.91			
20	QPSK	1	53	22.77	22.92	22.77	24.0	0.0	
20	QPSK	1	104	22.66	22.77	22.62			
20	QPSK	50	0	21.79	21.95	21.84	23.0	1.0	
20	QPSK	50	28	22.76	22.88	22.76	24.0	0.0	
20	QPSK	50	56	21.68	21.84	21.78			
20	QPSK	100	0	21.89	21.97	21.82	23.0	1.0	
20	16QAM	1	1	22.05	22.21	22.05	23.0	1.0	
20	84QAM	1	1	20.18	20.23	20.17	21.5	2.5	
20	256QAM	1	1	18.66	18.76	18.65	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				831.5	836.5	841.5			
15	PI/2 BPSK	1	1	23.07	23.18	23.01	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR	
Frequency (MHz)				829	836.5	844			
10	PI/2 BPSK	1	1	23.04	22.89	22.96	24.0	0.0	
Channel				165300	167300	169300	Tune-up limit (dBm)	MPR	
Frequency (MHz)				826.5	836.5	846.5			
5	PI/2 BPSK	1	1	23.11	23.02	22.96	24.0	0.0	



n7_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	20.99	21.03	20.88			
40	PI/2 BPSK	1	108	20.84	20.52	20.81	22.0	0.0	
40	PI/2 BPSK	1	214	20.85	21.00	20.85	22.0	0.0	
40	PI/2 BPSK	108	0	20.49	20.68	20.66	22.0	0.0	
40	PI/2 BPSK	108	54	20.95	21.02	20.85	22.0	0.0	
40	PI/2 BPSK	108	108	20.76	20.78	20.70	22.0	0.0	
40	PI/2 BPSK	216	0	20.93	21.00	20.70	22.0	0.0	
40	QPSK	1	1	20.88	20.90	20.76			
40	QPSK	1	108	20.71	20.86	20.84	22.0	0.0	
40	QPSK	1	214	20.86	20.89	20.70	22.0	0.0	
40	QPSK	108	0	20.67	20.79	20.71	22.0	0.0	
40	QPSK	108	54	20.58	20.78	20.68	22.0	0.0	
40	QPSK	108	108	20.65	20.77	20.72	22.0	0.0	
40	QPSK	216	0	20.61	20.77	20.68	22.0	0.0	
40	16QAM	1	1	20.81	20.96	20.84	22.0	0.0	
40	64QAM	1	1	20.29	20.49	20.46	21.5	0.5	
40	256QAM	1	1	19.25	19.21	19.17	19.5	2.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI/2 BPSK	1	1	20.86	20.91	20.71	22.0	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	20.79	20.97	20.66	22.0	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	20.96	20.99	20.68	22.0	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	20.90	20.84	20.78	22.0	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI/2 BPSK	1	1	20.90	20.93	20.73	22.0	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	20.89	20.97	20.58	22.0	0.0	

n7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Mobile Ch. / Freq.	High Ch. / Freq.			
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	20.28	20.48	20.33			
40	PI/2 BPSK	1	108	20.12	20.31	20.04	21.5	0.0	
40	PI/2 BPSK	1	214	20.25	20.22	20.22	21.5	0.0	
40	PI/2 BPSK	108	0	20.08	20.23	20.10	21.5	0.0	
40	PI/2 BPSK	108	54	20.25	20.46	20.31	21.5	0.0	
40	PI/2 BPSK	108	108	20.10	20.39	20.22	21.5	0.0	
40	PI/2 BPSK	216	0	20.22	20.44	20.29	21.5	0.0	
40	QPSK	1	1	20.24	20.33	20.31			
40	QPSK	1	108	20.16	20.25	20.10	21.5	0.0	
40	QPSK	1	214	20.09	20.22	20.06	21.5	0.0	
40	QPSK	108	0	20.22	20.23	20.22	21.5	0.0	
40	QPSK	108	54	20.01	20.15	20.06	21.5	0.0	
40	QPSK	108	108	20.04	20.19	20.04	21.5	0.0	
40	QPSK	216	0	20.01	20.21	20.17	21.5	0.0	
40	16QAM	1	1	20.26	20.37	20.18	21.5	0.0	
40	64QAM	1	1	19.89	19.98	19.81	21.5	0.0	
40	256QAM	1	1	18.70	18.85	18.85	19.5	2.0	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI/2 BPSK	1	1	20.15	20.41	20.28	21.5	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	20.10	20.32	20.21	21.5	0.0	
Channel				502000	507000	512000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	20.26	20.43	20.25	21.5	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	20.26	20.41	20.29	21.5	0.0	
Channel				501000	507000	513000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI/2 BPSK	1	1	20.27	20.38	20.26	21.5	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	20.11	20.44	20.31	21.5	0.0	



**n66\_Ant 0**

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	20.80	20.84	20.71	21.5	0.0
40	PI/2 BPSK	1	108	20.85	20.83	20.67		
40	PI/2 BPSK	1	214	20.86	20.83	20.53		
40	PI/2 BPSK	108	0	20.89	20.68	20.65	21.5	0.0
40	PI/2 BPSK	108	54	20.77	20.82	20.68	21.5	0.0
40	PI/2 BPSK	108	108	20.88	20.74	20.74	21.5	0.0
40	PI/2 BPSK	216	0	20.74	20.81	20.67		
40	QPSK	1	1	20.63	20.66	20.59		
40	QPSK	1	108	20.88	20.77	20.72	21.5	0.0
40	QPSK	1	214	20.51	20.53	20.37		
40	QPSK	108	0	20.89	20.70	20.57		
40	QPSK	108	54	20.60	20.73	20.67	21.5	0.0
40	QPSK	108	108	20.56	20.67	20.50	21.5	0.0
40	QPSK	216	0	20.57	20.61	20.47		
40	16QAM	1	1	20.69	20.83	20.80		
40	64QAM	1	1	20.39	20.57	20.51	21.5	0.0
40	256QAM	1	1	18.85	18.84	18.78	19.5	2.0
Channel				345000	348000	351000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	20.65	20.75	20.63	21.5	0.0
Channel				344000	349000	354000	Tune-up (APMAPI) (dBm)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	20.79	20.76	20.79	21.5	0.0
Channel				343000	348000	353000	Tune-up (APMAPI) (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI/2 BPSK	1	1	20.70	20.75	20.64	21.5	0.0
Channel				343000	349000	350000	Tune-up (APMAPI) (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	20.62	20.74	20.64	21.5	0.0
Channel				342000	349000	355000	Tune-up (APMAPI) (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1772.5		
5	PI/2 BPSK	1	1	20.72	20.78	20.60	21.5	0.0



n38_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				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	21.55	21.65	21.58		
40	PI/2 BPSK	1	53	21.38	21.48	21.52	22.5	0.0
40	PI/2 BPSK	1	104	21.35	21.57	21.42		
40	PI/2 BPSK	50	0	21.31	21.57	21.32	22.5	0.0
40	PI/2 BPSK	50	28	21.52	21.63	21.55	22.5	0.0
40	PI/2 BPSK	50	56	21.38	21.37	21.41		
40	PI/2 BPSK	100	0	21.50	21.61	21.53	22.5	0.0
40	QPSK	1	1	21.22	21.40	21.27		
40	QPSK	1	53	21.20	21.38	21.32	22.5	0.0
40	QPSK	1	104	21.41	21.50	21.30		
40	QPSK	50	0	21.15	21.29	21.12		
40	QPSK	50	28	21.18	21.36	21.17	22.5	0.0
40	QPSK	50	56	21.23	21.40	21.27		
40	QPSK	100	0	21.35	21.35	21.35	22.5	0.0
40	16QAM	1	1	21.26	21.40	21.25	22.5	0.0
40	64QAM	1	1	20.13	20.15	20.04	21.5	1.0
40	256QAM	1	1	18.94	19.00	18.80	19.5	3.0
Channel				517002	519000	520998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2585.01	2595	2604.99		
30	PI/2 BPSK	1	1	21.48	21.63	21.55	22.5	0.0
Channel				516000	519000	520000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2650	2665	2670		
20	PI/2 BPSK	1	1	21.43	21.62	21.54	22.5	0.0

n78(Part 27Q)_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel						633332		
Frequency (MHz)						3192.98		
100	PI/2 BPSK	1	1					
100	PI/2 BPSK	1	137			19.58		
100	PI/2 BPSK	1	271			19.53	20.5	0.0
100	PI/2 BPSK	135	0			19.46		0.0
100	PI/2 BPSK	135	69			19.60	20.5	0.0
100	PI/2 BPSK	135	138			19.57		0.0
100	PI/2 BPSK	270	0			19.59	20.5	0.0
100	QPSK	1	1			19.44		
100	QPSK	1	137			19.57	20.5	0.0
100	QPSK	1	271			19.56		
100	QPSK	135	0			19.41		
100	QPSK	135	69			19.44	20.5	0.0
100	QPSK	135	138			19.50		
100	QPSK	270	0			19.39	20.5	0.0
100	16QAM	1	1			19.43	20.5	0.0
100	64QAM	1	1			19.40	20.5	0.0
100	256QAM	1	1			19.30	19.5	1.0
Channel				630000	633332	636666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	19.57	19.50	19.55	20.5	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480.02	3499.98	3510		
80	PI/2 BPSK	1	1	19.48	19.40	19.50	20.5	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	19.56	19.43	19.54	20.5	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	19.60	19.51	19.46	20.5	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	19.49	19.60	19.47	20.5	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	19.55	19.45	19.46	20.5	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.98		
30	PI/2 BPSK	1	1	19.56	19.60	19.58	20.5	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	19.57	19.56	19.50	20.5	0.0



n78(Part 27Q) HPUE_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332				
Frequency (MHz)				3499.98				
100	PI/2 BPSK	1	1	19.57	19.50	19.55	20.5	0.0
100	PI/2 BPSK	1	137	19.58				
100	PI/2 BPSK	1	271	19.53				
100	PI/2 BPSK	135	0	19.46			20.5	0.0
100	PI/2 BPSK	135	69	19.60			20.5	0.0
100	PI/2 BPSK	135	138	19.57			20.5	0.0
100	PI/2 BPSK	270	0	19.59			20.5	0.0
100	QPSK	1	1	19.44				
100	QPSK	1	137	19.57			20.5	0.0
100	QPSK	1	271	19.56				
100	QPSK	135	0	19.41				
100	QPSK	135	69	19.44			20.5	0.0
100	QPSK	135	138	19.50				
100	QPSK	270	0	19.39			20.5	0.0
100	16QAM	1	1	19.43			20.5	0.0
100	64QAM	1	1	19.40			20.5	0.0
100	256QAM	1	1	19.30			20.5	0.0
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	19.57	19.50	19.55	20.5	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3499.02	3499.98	3510		
80	PI/2 BPSK	1	1	19.48	19.40	19.59	20.5	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	19.56	19.43	19.54	20.5	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	19.50	19.51	19.48	20.5	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	19.49	19.60	19.47	20.5	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	19.55	19.45	19.48	20.5	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	19.56	19.60	19.58	20.5	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	19.57	19.56	19.50	20.5	0.0

n78(Part 27Q)_Ant 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				633332				
Frequency (MHz)				3499.98				
100	PI/2 BPSK	1	1	17.60				
100	PI/2 BPSK	1	137	17.45			18.5	0.0
100	PI/2 BPSK	1	271	17.47				
100	PI/2 BPSK	135	0	17.39			18.5	0.0
100	PI/2 BPSK	135	69	17.58			18.5	0.0
100	PI/2 BPSK	135	138	17.56			18.5	0.0
100	PI/2 BPSK	270	0	17.56			18.5	0.0
100	QPSK	1	1	17.49				
100	QPSK	1	137	17.33			18.5	0.0
100	QPSK	1	271	17.53				
100	QPSK	135	0	17.34				
100	QPSK	135	69	17.31			18.5	0.0
100	QPSK	135	138	17.51				
100	QPSK	270	0	17.59			18.5	0.0
100	16QAM	1	1	17.40			18.5	0.0
100	64QAM	1	1	17.46			18.5	0.0
100	256QAM	1	1	17.45			18.5	0.0
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	17.12	17.37	17.28	18.5	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3499.02	3499.98	3510		
80	PI/2 BPSK	1	1	17.39	17.33	17.52	18.5	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	17.29	17.22	17.47	18.5	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	17.13	17.33	17.38	18.5	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	17.18	17.26	17.54	18.5	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	17.15	17.30	17.52	18.5	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	17.20	17.47	17.31	18.5	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	17.34	17.20	17.47	18.5	0.0





n78(Part 27Q) HPUE_Ant 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				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	17.50					
100	PI/2 BPSK	1	137	17.45			18.5	0.0	
100	PI/2 BPSK	1	271	17.47					
100	PI/2 BPSK	135	0	17.39			18.5	0.0	
100	PI/2 BPSK	135	69	17.58			18.5	0.0	
100	PI/2 BPSK	135	138	17.56			18.5	0.0	
100	PI/2 BPSK	270	0	17.56					
100	QPSK	1	1	17.49					
100	QPSK	1	137	17.33			18.5	0.0	
100	QPSK	1	271	17.53					
100	QPSK	135	0	17.34					
100	QPSK	135	69	17.31			18.5	0.0	
100	QPSK	135	138	17.51					
100	QPSK	270	0	17.59			18.5	0.0	
100	16QAM	1	1	17.40			18.5	0.0	
100	64QAM	1	1	17.46			18.5	0.0	
100	256QAM	1	1	17.45			18.5	0.0	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	17.12	17.37	17.28	18.5	0.0	
Channel				632668	633332	634000			
Frequency (MHz)				3499.02	3499.98	3510			
80	PI/2 BPSK	1	1	17.39	17.33	17.52	18.5	0.0	
Channel				632334	633332	634332			
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	17.29	17.22	17.47	18.5	0.0	
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	17.13	17.33	17.38	18.5	0.0	
Channel				631668	633332	635000			
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	17.18	17.26	17.54	18.5	0.0	
Channel				631334	633332	635332			
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	17.15	17.30	17.52	18.5	0.0	
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3534.99			
30	PI/2 BPSK	1	1	17.20	17.47	17.31	18.5	0.0	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	17.34	17.20	17.47	18.5	0.0	

n78(Part 27Q)_Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332					
Frequency (MHz)				3499.98					
100	PI/2 BPSK	1	1	22.54					
100	PI/2 BPSK	1	137	22.51			23.5	0.0	
100	PI/2 BPSK	1	271	22.53					
100	PI/2 BPSK	135	0	22.49			23.5	0.0	
100	PI/2 BPSK	135	69	22.52			23.5	0.0	
100	PI/2 BPSK	135	138	22.47			23.5	0.0	
100	PI/2 BPSK	270	0	22.50					
100	QPSK	1	1	22.42					
100	QPSK	1	137	22.48			23.5	0.0	
100	QPSK	1	271	22.52					
100	QPSK	135	0	22.43					
100	QPSK	135	69	22.48			23.5	0.0	
100	QPSK	135	138	22.46					
100	QPSK	270	0	22.36			23.0	0.5	
100	16QAM	1	1	22.46			23.0	0.5	
100	64QAM	1	1	22.37			21.5	2.0	
100	256QAM	1	1	21.47			19.5	4.0	
Channel				633000	633332	633666			
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	22.44	22.47	22.53	23.5	0.0	
Channel				632668	633332	634000			
Frequency (MHz)				3499.02	3499.98	3510			
80	PI/2 BPSK	1	1	22.40	22.38	22.49	23.5	0.0	
Channel				632334	633332	634332			
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	22.48	22.44	22.49	23.5	0.0	
Channel				632000	633332	634666			
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	22.37	22.49	22.48	23.5	0.0	
Channel				631668	633332	635000			
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	22.42	22.51	22.47	23.5	0.0	
Channel				631334	633332	635332			
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	22.47	22.38	22.46	23.5	0.0	
Channel				631000	633332	635666			
Frequency (MHz)				3465	3499.98	3534.99			
30	PI/2 BPSK	1	1	22.37	22.51	22.43	23.5	0.0	
Channel				630668	633332	636000			
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	22.52	22.39	22.45	23.5	0.0	



### n78(Part 27Q) HPUE\_Ant 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332	633332		
Frequency (MHz)				3109.98				
100	PI/2 BPSK	1	1	22.44				
100	PI/2 BPSK	1	137	22.51			23.5	0.0
100	PI/2 BPSK	1	271	22.53				
100	PI/2 BPSK	135	0	22.49			23.5	0.0
100	PI/2 BPSK	135	69	22.52			23.5	0.0
100	PI/2 BPSK	135	138	22.47			23.5	0.0
100	PI/2 BPSK	270	0	22.50				
100	QPSK	1	1	22.42				
100	QPSK	1	137	22.49			23.5	0.0
100	QPSK	1	271	22.52				
100	QPSK	135	0	22.43				
100	QPSK	135	69	22.48			23.5	0.0
100	QPSK	135	138	22.46				
100	QPSK	270	0	22.38			23.5	0.0
100	16QAM	1	1	22.46			23.5	0.0
100	64QAM	1	1	22.37			23.5	0.0
100	256QAM	1	1	21.47			22.5	1.0
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	22.44	22.47	22.53	23.5	0.0
Channel				632666	633332	634000		
Frequency (MHz)				3486.02	3499.98	3510		
80	PI/2 BPSK	1	1	22.40	22.38	22.49	23.5	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	22.48	22.44	22.49	23.5	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	22.37	22.49	22.48	23.5	0.0
Channel				631666	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	22.42	22.51	22.47	23.5	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	22.47	22.38	22.46	23.5	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	22.37	22.51	22.43	23.5	0.0
Channel				630666	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	22.52	22.39	22.45	23.5	0.0



Reduced Power DSI4

n2_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				372000	376000	380000			
Frequency (MHz)				1860	1880	1900			
20	PI/2 BPSK	1	1	23.08	23.29	23.12			
20	PI/2 BPSK	1	53	23.06	23.17	23.03	24.0	0.0	
20	PI/2 BPSK	1	104	23.05	23.13	22.93			
20	PI/2 BPSK	50	0	22.61	22.68	22.54	23.5	0.5	
20	PI/2 BPSK	50	28	23.09	23.16	23.02	24.0	0.0	
20	PI/2 BPSK	50	56	22.59	22.66	22.49			
20	PI/2 BPSK	100	0	22.63	22.68	22.53	23.5	0.5	
20	QPSK	1	1	23.09	23.16	23.02			
20	QPSK	1	53	23.07	23.20	22.87	24.0	0.0	
20	QPSK	1	104	23.11	23.13	22.88			
20	QPSK	50	0	22.12	22.17	22.04	23.0	1.0	
20	QPSK	50	28	23.07	23.17	23.05	24.0	0.0	
20	QPSK	50	56	22.03	22.13	21.89			
20	QPSK	100	0	22.11	22.20	22.05	23.0	1.0	
20	16QAM	1	1	22.02	22.07	22.05	23.0	1.0	
20	64QAM	1	1	20.57	20.55	20.13	21.5	2.5	
20	256QAM	1	1	18.84	18.89	18.70	19.5	4.5	
Channel				371500	376000	380500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1857.5	1880	1902.5	24.0	0.0	
15	PI/2 BPSK	1	1	23.25	23.28	23.02	24.0	0.0	
Channel				371000	376000	381000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1855	1880	1905	24.0	0.0	
10	PI/2 BPSK	1	1	23.12	23.23	22.94	24.0	0.0	
Channel				370500	376000	381500	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				1852.5	1880	1907.5	24.0	0.0	
5	PI/2 BPSK	1	1	23.16	23.26	23.01	24.0	0.0	

n5_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				166800	167300	167800			
Frequency (MHz)				834	836.5	839			
20	PI/2 BPSK	1	1	23.11	23.19	23.02			
20	PI/2 BPSK	1	53	22.97	22.87	22.91	24.0	0.0	
20	PI/2 BPSK	1	104	22.87	22.76	22.81			
20	PI/2 BPSK	50	0	22.52	22.48	22.45	23.5	0.5	
20	PI/2 BPSK	50	28	22.93	22.94	22.91	24.0	0.0	
20	PI/2 BPSK	50	56	22.36	22.35	22.32			
20	PI/2 BPSK	100	0	22.47	22.48	22.46	23.5	0.5	
20	QPSK	1	1	22.89	23.03	22.91			
20	QPSK	1	53	22.77	22.92	22.77	24.0	0.0	
20	QPSK	1	104	22.66	22.77	22.62			
20	QPSK	50	0	21.79	21.95	21.84	23.0	1.0	
20	QPSK	50	28	22.76	22.88	22.76	24.0	0.0	
20	QPSK	50	56	21.68	21.84	21.78			
20	QPSK	100	0	21.89	21.97	21.82	23.0	1.0	
20	16QAM	1	1	22.05	22.21	22.05	23.0	1.0	
20	64QAM	1	1	20.18	20.23	20.17	21.5	2.5	
20	256QAM	1	1	18.66	18.76	18.65	19.5	4.5	
Channel				166300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				831.5	836.5	841.5	24.0	0.0	
15	PI/2 BPSK	1	1	23.07	23.18	23.01	24.0	0.0	
Channel				165800	167300	168800	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				829	836.5	844	24.0	0.0	
10	PI/2 BPSK	1	1	23.04	22.89	22.96	24.0	0.0	
Channel				165300	167300	168300	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				826.5	836.5	846.5	24.0	0.0	
5	PI/2 BPSK	1	1	23.11	23.02	22.96	24.0	0.0	



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				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	23.43	23.49	23.24			
40	PI/2 BPSK	1	108	23.44	23.33	23.23	24.0	0.0	
40	PI/2 BPSK	1	214	23.35	23.29	23.12			
40	PI/2 BPSK	108	0	23.01	22.82	22.84	23.5	0.5	
40	PI/2 BPSK	108	54	23.12	23.13	23.11	24.0	0.0	
40	PI/2 BPSK	108	108	22.84	22.93	22.83			
40	PI/2 BPSK	216	0	22.85	22.89	22.88	23.5	0.5	
40	QPSK	1	1	23.39	23.46	23.37			
40	QPSK	1	108	23.05	23.14	22.86	24.0	0.0	
40	QPSK	1	214	23.21	23.31	23.19			
40	QPSK	108	0	22.30	22.38	22.22	23.0	1.0	
40	QPSK	108	54	23.00	23.07	22.97	24.0	0.0	
40	QPSK	108	108	22.25	22.41	22.32			
40	QPSK	216	0	22.22	22.38	22.22	23.0	1.0	
40	16QAM	1	1	22.28	22.39	22.31	23.0	1.0	
40	64QAM	1	1	20.57	20.66	20.61	21.5	2.5	
40	256QAM	1	1	19.25	19.38	19.32	19.5	4.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI/2 BPSK	1	1	23.48	23.38	23.25	24.0	0.0	
Channel				502500	507000	511500	IAEm/AEAE (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	PI/2 BPSK	1	1	23.38	23.28	23.28	24.0	0.0	
Channel				502000	507000	512000	IAEm/AEAE (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	23.22	23.06	23.05	24.0	0.0	
Channel				501500	507000	512500	IAEm/AEAE (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI/2 BPSK	1	1	23.16	23.12	22.97	24.0	0.0	
Channel				501000	507000	513000	IAEm/AEAE (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI/2 BPSK	1	1	23.33	23.22	23.19	24.0	0.0	
Channel				500500	507000	513500	IAEm/AEAE (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI/2 BPSK	1	1	23.37	23.14	23.07	24.0	0.0	

n7_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
Channel				504000	507000	510000			
Frequency (MHz)				2520	2535	2550			
40	PI/2 BPSK	1	1	22.93	22.94	22.79			
40	PI/2 BPSK	1	108	22.90	22.75	22.81	24.0	0.0	
40	PI/2 BPSK	1	214	22.88	22.81	22.73			
40	PI/2 BPSK	108	0	22.78	22.73	22.75	23.5	0.5	
40	PI/2 BPSK	108	54	22.75	22.83	22.74	24.0	0.0	
40	PI/2 BPSK	108	108	22.81	22.81	22.85			
40	PI/2 BPSK	216	0	22.83	22.84	22.79	23.5	0.5	
40	QPSK	1	1	22.45	22.59	22.54			
40	QPSK	1	108	22.85	22.91	22.84	24.0	0.0	
40	QPSK	1	214	22.84	22.91	22.76			
40	QPSK	108	0	21.51	21.63	21.57	23.0	1.0	
40	QPSK	108	54	22.67	22.75	22.65	24.0	0.0	
40	QPSK	108	108	22.26	22.40	22.30			
40	QPSK	216	0	22.20	22.34	22.18	23.0	1.0	
40	16QAM	1	1	21.15	21.29	21.17	23.0	1.0	
40	64QAM	1	1	20.02	20.12	20.03	21.5	2.5	
40	256QAM	1	1	18.88	19.02	18.96	19.5	4.5	
Channel				503000	507000	511000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				2515	2535	2555			
30	PI/2 BPSK	1	1	22.92	22.80	22.88	24.0	0.0	
Channel				502500	507000	511500	IAEm/AEAE (dBm)	MPR (dB)	
Frequency (MHz)				2512.5	2535	2557.5			
25	PI/2 BPSK	1	1	22.92	22.87	22.85	24.0	0.0	
Channel				502000	507000	512000	IAEm/AEAE (dBm)	MPR (dB)	
Frequency (MHz)				2510	2535	2560			
20	PI/2 BPSK	1	1	22.78	22.66	22.69	24.0	0.0	
Channel				501500	507000	512500	IAEm/AEAE (dBm)	MPR (dB)	
Frequency (MHz)				2507.5	2535	2562.5			
15	PI/2 BPSK	1	1	22.73	22.62	22.65	24.0	0.0	
Channel				501000	507000	513000	IAEm/AEAE (dBm)	MPR (dB)	
Frequency (MHz)				2505	2535	2565			
10	PI/2 BPSK	1	1	22.86	22.81	22.69	24.0	0.0	
Channel				500500	507000	513500	IAEm/AEAE (dBm)	MPR (dB)	
Frequency (MHz)				2502.5	2535	2567.5			
5	PI/2 BPSK	1	1	22.84	22.83	22.75	24.0	0.0	



n66_Ant 0								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				346000	349000	352000		
Frequency (MHz)				1730	1745	1760		
40	PI/2 BPSK	1	1	23.40	23.48	23.28		
40	PI/2 BPSK	1	168	23.31	23.39	23.24	24.0	0.0
40	PI/2 BPSK	1	214	23.34	23.27	23.11		
40	PI/2 BPSK	108	0	22.76	22.74	22.74	23.5	0.5
40	PI/2 BPSK	108	54	23.22	23.23	23.19	24.0	0.0
40	PI/2 BPSK	108	108	22.88	22.78	22.69		
40	PI/2 BPSK	216	0	22.77	22.81	22.70	23.5	0.5
40	QPSK	1	1	23.17	23.26	23.17		
40	QPSK	1	168	23.14	23.29	23.23	24.0	0.0
40	QPSK	1	214	23.13	23.24	23.10		
40	QPSK	108	0	22.12	22.26	22.16	23.0	1.0
40	QPSK	108	54	23.11	23.21	23.15	24.0	0.0
40	QPSK	108	108	22.16	22.29	22.16		
40	QPSK	216	0	22.17	22.25	22.17	23.0	1.0
40	16QAM	1	1	22.15	22.23	22.09	23.0	1.0
40	64QAM	1	1	20.44	20.49	20.36	21.5	2.5
40	256QAM	1	1	18.53	18.69	18.58	19.5	4.5
Channel				345000	349000	353000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1725	1745	1765		
30	PI/2 BPSK	1	1	23.37	23.33	23.34	24.0	0.0
Channel				344000	349000	354000	Power MPR (dB)	MPR (dB)
Frequency (MHz)				1720	1745	1770		
20	PI/2 BPSK	1	1	23.45	23.29	23.16	24.0	0.0
Channel				343500	349000	354500	Power MPR (dB)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	PI/2 BPSK	1	1	23.38	23.36	23.19	24.0	0.0
Channel				343000	349000	355000	Power MPR (dB)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	PI/2 BPSK	1	1	23.31	23.32	23.09	24.0	0.0
Channel				342500	349000	355500	Power MPR (dB)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	PI/2 BPSK	1	1	23.22	23.41	23.09	24.0	0.0



n38_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				518004	519000	519996		
Frequency (MHz)				2590.02	2595	2599.98		
40	PI/2 BPSK	1	1	23.17	23.29	23.17		
40	PI/2 BPSK	1	53	23.20	23.19	23.28	24.0	0.0
40	PI/2 BPSK	1	104	23.21	23.15	23.19		
40	PI/2 BPSK	50	0	22.66	22.66	22.71	23.5	0.5
40	PI/2 BPSK	50	28	23.22	23.28	23.27	24.0	0.0
40	PI/2 BPSK	50	56	22.76	22.78	22.75		
40	PI/2 BPSK	100	0	22.74	22.76	22.67	23.5	0.5
40	QPSK	1	1	23.01	23.11	22.98		
40	QPSK	1	53	23.06	23.17	23.04	24.0	0.0
40	QPSK	1	104	23.26	23.12	23.16		
40	QPSK	50	0	22.04	22.17	22.03		
40	QPSK	50	28	23.08	23.16	23.07	24.0	0.0
40	QPSK	50	56	22.17	22.25	22.09		
40	QPSK	100	0	22.05	22.17	22.02	23.0	1.0
40	16QAM	1	1	22.22	22.29	22.18	23.0	1.0
40	64QAM	1	1	20.13	20.23	20.17	21.5	2.5
40	256QAM	1	1	18.90	19.01	18.89	19.5	4.5
Channel				517002	519000	520998		
Frequency (MHz)				2585.01	2595	2604.99		
30	PI/2 BPSK	1	1	23.18	23.13	23.18	24.0	0.0
Channel				516000	519000	520000		
Frequency (MHz)				2580	2595	2610		
20	PI/2 BPSK	1	1	23.16	23.16	23.03	24.0	0.0

n78(Part 27Q)_Ant 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel						633332		
Frequency (MHz)						3499.98		
100	PI/2 BPSK	1	1			23.32		
100	PI/2 BPSK	1	137			23.31	24.0	0.0
100	PI/2 BPSK	1	274			23.23		
100	PI/2 BPSK	135	0			23.21	23.5	0.5
100	PI/2 BPSK	135	69			23.25	24.0	0.0
100	PI/2 BPSK	135	138			23.17	23.5	0.5
100	PI/2 BPSK	270	0			23.27		
100	QPSK	1	1			23.35		
100	QPSK	1	137			23.35	24.0	0.0
100	QPSK	1	274			23.33		
100	QPSK	135	0			23.27		
100	QPSK	135	69			23.28	24.0	0.0
100	QPSK	135	138			23.11		
100	QPSK	270	0			21.75	23.0	1.0
100	16QAM	1	1			21.91	23.0	1.0
100	64QAM	1	1			21.19	21.5	2.5
100	256QAM	1	1			19.34	19.5	4.5
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	23.28	23.30	23.34	24.0	0.0
Channel				632668	633332	634000		
Frequency (MHz)				3489.02	3499.98	3510		
80	PI/2 BPSK	1	1	23.35	23.31	23.26	24.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	23.36	23.36	23.28	24.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	23.27	23.27	23.29	24.0	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	23.33	23.28	23.32	24.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	23.30	23.28	23.28	24.0	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.98		
30	PI/2 BPSK	1	1	23.27	23.28	23.33	24.0	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	23.27	23.28	23.26	24.0	0.0



n78(Part 27Q) HPUE_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	PI/2 BPSK	1	1	3499.98	3499.98	3504.99			
100	PI/2 BPSK	1	137	26.11	26.11	26.11	27.0	0.0	
100	PI/2 BPSK	1	271	26.02	26.02	26.02	27.0	0.0	
100	PI/2 BPSK	135	0	25.05	25.05	25.05	26.5	0.5	
100	PI/2 BPSK	135	69	26.03	26.03	26.03	27.0	0.0	
100	PI/2 BPSK	135	138	24.94	24.94	24.94	26.5	0.5	
100	PI/2 BPSK	270	0	25.07	25.07	25.07	26.5	0.5	
100	QPSK	1	1	3499.98	3499.98	3504.99			
100	QPSK	1	137	26.10	26.10	26.10	27.0	0.0	
100	QPSK	1	271	26.08	26.08	26.08	27.0	0.0	
100	QPSK	135	0	25.21	25.21	25.21	27.0	0.0	
100	QPSK	135	69	26.06	26.06	26.06	27.0	0.0	
100	QPSK	135	138	25.23	25.23	25.23	27.0	0.0	
100	QPSK	270	0	24.51	24.51	24.51	26.0	1.0	
100	16QAM	1	1	3499.98	3499.98	3504.99			
100	16QAM	1	1	22.93	22.93	22.93	24.5	2.5	
100	256QAM	1	1	21.17	21.17	21.17	22.5	4.5	
Channel									
Frequency (MHz)									
90	PI/2 BPSK	1	1	26.04	26.04	26.08	27.0	0.0	
Channel									
Frequency (MHz)									
80	PI/2 BPSK	1	1	26.09	26.07	26.09	27.0	0.0	
Channel									
Frequency (MHz)									
70	PI/2 BPSK	1	1	26.11	26.11	26.02	27.0	0.0	
Channel									
Frequency (MHz)									
60	PI/2 BPSK	1	1	26.05	26.03	26.09	27.0	0.0	
Channel									
Frequency (MHz)									
50	PI/2 BPSK	1	1	26.11	26.08	26.10	27.0	0.0	
Channel									
Frequency (MHz)									
40	PI/2 BPSK	1	1	26.07	26.03	26.06	27.0	0.0	
Channel									
Frequency (MHz)									
30	PI/2 BPSK	1	1	26.05	26.04	26.10	27.0	0.0	
Channel									
Frequency (MHz)									
20	PI/2 BPSK	1	1	26.04	26.03	26.01	27.0	0.0	

n78(Part 27Q)_Ant 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	PI/2 BPSK	1	1	3499.98	3499.98	3504.99			
100	PI/2 BPSK	1	137	17.45	17.45	17.45	18.5	0.0	
100	PI/2 BPSK	1	271	17.47	17.47	17.47	18.5	0.0	
100	PI/2 BPSK	135	0	17.39	17.39	17.39	18.5	0.0	
100	PI/2 BPSK	135	69	17.58	17.58	17.58	18.5	0.0	
100	PI/2 BPSK	135	138	17.56	17.56	17.56	18.5	0.0	
100	PI/2 BPSK	270	0	17.56	17.56	17.56	18.5	0.0	
100	QPSK	1	1	3499.98	3499.98	3504.99			
100	QPSK	1	137	17.49	17.49	17.49	18.5	0.0	
100	QPSK	1	271	17.33	17.33	17.33	18.5	0.0	
100	QPSK	1	271	17.53	17.53	17.53	18.5	0.0	
100	QPSK	135	0	17.34	17.34	17.34	18.5	0.0	
100	QPSK	135	69	17.31	17.31	17.31	18.5	0.0	
100	QPSK	135	138	17.51	17.51	17.51	18.5	0.0	
100	QPSK	270	0	17.59	17.59	17.59	18.5	0.0	
100	16QAM	1	1	3499.98	3499.98	3504.99			
100	16QAM	1	1	17.40	17.40	17.40	18.5	0.0	
100	64QAM	1	1	17.46	17.46	17.46	18.5	0.0	
100	256QAM	1	1	17.45	17.45	17.45	18.5	0.0	
Channel									
Frequency (MHz)									
90	PI/2 BPSK	1	1	17.12	17.37	17.28	18.5	0.0	
Channel									
Frequency (MHz)									
80	PI/2 BPSK	1	1	17.39	17.33	17.52	18.5	0.0	
Channel									
Frequency (MHz)									
70	PI/2 BPSK	1	1	17.29	17.22	17.47	18.5	0.0	
Channel									
Frequency (MHz)									
60	PI/2 BPSK	1	1	17.13	17.33	17.38	18.5	0.0	
Channel									
Frequency (MHz)									
50	PI/2 BPSK	1	1	17.18	17.26	17.54	18.5	0.0	
Channel									
Frequency (MHz)									
40	PI/2 BPSK	1	1	17.15	17.30	17.52	18.5	0.0	
Channel									
Frequency (MHz)									
30	PI/2 BPSK	1	1	17.20	17.47	17.31	18.5	0.0	
Channel									
Frequency (MHz)									
20	PI/2 BPSK	1	1	17.34	17.20	17.47	18.5	0.0	



n78(Part 27Q) HPUE_Ant 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				633332	633332				
Frequency (MHz)				3499.98	3499.98				
100	PI/2 BPSK	1	1	17.50					
100	PI/2 BPSK	1	137	17.45			18.5	0.0	
100	PI/2 BPSK	1	271	17.47					
100	PI/2 BPSK	135	0	17.39			18.5	0.0	
100	PI/2 BPSK	135	69	17.58			18.5	0.0	
100	PI/2 BPSK	135	138	17.56			18.5	0.0	
100	PI/2 BPSK	270	0	17.56					
100	QPSK	1	1	17.49					
100	QPSK	1	137	17.33			18.5	0.0	
100	QPSK	1	271	17.53					
100	QPSK	135	0	17.34					
100	QPSK	135	69	17.31			18.5	0.0	
100	QPSK	135	138	17.51					
100	QPSK	270	0	17.59			18.5	0.0	
100	16QAM	1	1	17.40			18.5	0.0	
100	64QAM	1	1	17.46			18.5	0.0	
100	256QAM	1	1	17.45			18.5	0.0	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	17.12	17.37	17.28	18.5	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3499.02	3499.98	3510			
80	PI/2 BPSK	1	1	17.39	17.33	17.52	18.5	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	17.29	17.22	17.47	18.5	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	17.13	17.33	17.38	18.5	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	17.18	17.26	17.54	18.5	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	17.15	17.30	17.52	18.5	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	PI/2 BPSK	1	1	17.20	17.47	17.31	18.5	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	17.34	17.20	17.47	18.5	0.0	

n78(Part 27Q)_Ant 5									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel				633332	633332				
Frequency (MHz)				3499.98	3499.98				
100	PI/2 BPSK	1	1	23.08					
100	PI/2 BPSK	1	137	23.03			24.0	0.0	
100	PI/2 BPSK	1	271	23.00					
100	PI/2 BPSK	135	0	22.99			23.5	0.5	
100	PI/2 BPSK	135	69	23.03			24.0	0.0	
100	PI/2 BPSK	135	138	23.02			23.5	0.5	
100	PI/2 BPSK	270	0	22.96					
100	QPSK	1	1	22.98					
100	QPSK	1	137	22.98			24.0	0.0	
100	QPSK	1	271	22.62					
100	QPSK	135	0	22.57					
100	QPSK	135	69	22.56			24.0	0.0	
100	QPSK	135	138	22.58					
100	QPSK	270	0	22.60			23.0	1.0	
100	16QAM	1	1	22.18			23.0	1.0	
100	64QAM	1	1	21.35			21.5	2.5	
100	256QAM	1	1	19.94			19.5	4.5	
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3495	3499.98	3504.99			
90	PI/2 BPSK	1	1	22.60	23.01	22.68	24.0	0.0	
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3489.02	3499.98	3510			
80	PI/2 BPSK	1	1	22.60	22.94	22.60	24.0	0.0	
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3485.01	3499.98	3514.98			
70	PI/2 BPSK	1	1	22.55	22.99	22.61	24.0	0.0	
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3480	3499.98	3519.99			
60	PI/2 BPSK	1	1	22.55	22.98	22.81	24.0	0.0	
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3475.02	3499.98	3525			
50	PI/2 BPSK	1	1	22.49	22.97	22.63	24.0	0.0	
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3470.01	3499.98	3529.98			
40	PI/2 BPSK	1	1	22.61	23.02	22.62	24.0	0.0	
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3465	3499.98	3534.99			
30	PI/2 BPSK	1	1	22.57	22.91	22.67	24.0	0.0	
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3460.02	3499.98	3540			
20	PI/2 BPSK	1	1	22.57	22.93	22.65	24.0	0.0	





n78(Part 27Q) HPUE_Ant 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				633332				
Frequency (MHz)				3499.98				
100	PI/2 BPSK	1	1	25.81				
100	PI/2 BPSK	1	137	25.78			27.0	0.0
100	PI/2 BPSK	1	271	25.71				
100	PI/2 BPSK	135	0	24.84			26.5	0.5
100	PI/2 BPSK	135	69	25.74			27.0	0.0
100	PI/2 BPSK	135	138	24.80			26.5	0.5
100	PI/2 BPSK	270	0	24.83				
100	QPSK	1	1	25.54				
100	QPSK	1	137	25.38			27.0	0.0
100	QPSK	1	271	25.50				
100	QPSK	135	0	25.21				
100	QPSK	135	69	25.42			27.0	0.0
100	QPSK	135	138	25.32				
100	QPSK	270	0	24.27			26.0	1.0
100	16QAM	1	1	24.01			26.0	1.0
100	64QAM	1	1	22.52			24.5	2.5
100	256QAM	1	1	20.59			22.5	4.5
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	25.21	25.67	25.34	27.0	0.0
Channel				632688	633332	634000		
Frequency (MHz)				3492.02	3499.98	3510		
80	PI/2 BPSK	1	1	25.29	25.63	25.35	27.0	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	25.27	25.61	25.33	27.0	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3518.99		
60	PI/2 BPSK	1	1	25.29	25.66	25.31	27.0	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	25.30	25.62	25.34	27.0	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	25.28	25.67	25.40	27.0	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	25.27	25.62	25.37	27.0	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	25.27	25.73	25.30	27.0	0.0

n78(Part 27Q)_Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel				633332				
Frequency (MHz)				3499.98				
100	PI/2 BPSK	1	1	21.19				
100	PI/2 BPSK	1	137	21.15			22.5	0.0
100	PI/2 BPSK	1	271	21.09				
100	PI/2 BPSK	135	0	21.15			22.5	0.0
100	PI/2 BPSK	135	69	21.18			22.5	0.0
100	PI/2 BPSK	135	138	21.05			22.5	0.0
100	PI/2 BPSK	270	0	21.16				
100	QPSK	1	1	21.12				
100	QPSK	1	137	21.14			22.5	0.0
100	QPSK	1	271	21.07				
100	QPSK	135	0	21.12				
100	QPSK	135	69	21.17			22.5	0.0
100	QPSK	135	138	21.05				
100	QPSK	270	0	21.08			22.5	0.0
100	16QAM	1	1	21.14			22.5	0.0
100	64QAM	1	1	19.95			21.5	1.0
100	256QAM	1	1	18.35			19.5	3.0
Channel				633000	633332	633666		
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	21.14	21.15	21.17	22.5	0.0
Channel				632688	633332	634000		
Frequency (MHz)				3492.02	3499.98	3510		
80	PI/2 BPSK	1	1	20.97	21.13	21.04	22.5	0.0
Channel				632334	633332	634332		
Frequency (MHz)				3485.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	21.12	21.05	21.08	22.5	0.0
Channel				632000	633332	634666		
Frequency (MHz)				3480	3499.98	3518.99		
60	PI/2 BPSK	1	1	20.98	21.06	21.04	22.5	0.0
Channel				631668	633332	635000		
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	21.10	21.13	21.02	22.5	0.0
Channel				631334	633332	635332		
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	21.07	20.99	21.10	22.5	0.0
Channel				631000	633332	635666		
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	20.94	21.15	21.07	22.5	0.0
Channel				630668	633332	636000		
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	21.10	21.15	21.17	22.5	0.0



### n78(Part 27Q) HPUE\_Ant 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				633332	633332	633332		
Frequency (MHz)				3499.98	21.15			
100	PI/2 BPSK	1	1		21.15		22.5	0.0
100	PI/2 BPSK	1	137		21.09			
100	PI/2 BPSK	1	271		21.15		22.5	0.0
100	PI/2 BPSK	135	0		21.18		22.5	0.0
100	PI/2 BPSK	135	69		21.05			
100	PI/2 BPSK	135	138		21.16		22.5	0.0
100	PI/2 BPSK	270	0		21.12			
100	QPSK	1	1		21.14		22.5	0.0
100	QPSK	1	137		21.07			
100	QPSK	1	271		21.12			
100	QPSK	135	0		21.17		22.5	0.0
100	QPSK	135	69		21.05			
100	QPSK	135	138		21.08			
100	QPSK	270	0		21.14		22.5	0.0
100	16QAM	1	1		20.80		22.5	0.0
100	64QAM	1	1		20.15		20.5	2.0
100	256QAM	1	1		20.15		20.5	2.0
Channel				633000	633332	633666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3495	3499.98	3504.99		
90	PI/2 BPSK	1	1	21.14	21.15	21.17	22.5	0.0
Channel				632668	633332	634000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3492.02	3499.98	3510		
80	PI/2 BPSK	1	1	20.97	21.13	21.04	22.5	0.0
Channel				632334	633332	634332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3486.01	3499.98	3514.98		
70	PI/2 BPSK	1	1	21.12	21.05	21.08	22.5	0.0
Channel				632000	633332	634666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3480	3499.98	3519.99		
60	PI/2 BPSK	1	1	20.98	21.09	21.04	22.5	0.0
Channel				631668	633332	635000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3475.02	3499.98	3525		
50	PI/2 BPSK	1	1	21.10	21.13	21.02	22.5	0.0
Channel				631334	633332	635332	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3470.01	3499.98	3529.98		
40	PI/2 BPSK	1	1	21.07	20.99	21.10	22.5	0.0
Channel				631000	633332	635666	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3465	3499.98	3534.99		
30	PI/2 BPSK	1	1	20.94	21.15	21.07	22.5	0.0
Channel				630668	633332	636000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3460.02	3499.98	3540		
20	PI/2 BPSK	1	1	21.10	21.15	21.17	22.5	0.0



WiFi/Bluetooth power

2.4GHz WLAN Ant 3					Default Power Table					At-Head Power Table Standalone WLAN		At-Head Power Table Simultaneous WLAN+WWAN		Body-Worn Power Table Standalone WLAN		Handheld power table Standalone WLAN		Handheld power table Simultaneous WLAN+WWAN		Body-Worn Power Table Simultaneous WLAN+WWAN MHS (Mobile Hotspot) Power Table		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
2.4GHz WLAN	802.11b 1Mbps	1	2412	19.20	21.00	17.80	19.50	14.50	16.00	18.80	20.50	19.20	21.00	15.40	17.00	15.40	17.00					99.30
		6	2437	19.40	21.00	17.90	19.50	14.60	16.00	18.90	20.50	19.40	21.00	15.50	17.00	15.50	17.00					
		11	2462	18.70	20.50	17.60	19.50			14.20	16.00	18.70	20.50	14.70	17.00	14.70	17.00					
	802.11g 6Mbps	1	2412	17.70	19.50	17.70	19.50			16.00		19.50		19.50	17.00							98.26
		6	2437	17.90	19.50	17.90	19.50			16.00		19.50		19.50	17.00							
		11	2462	17.30	19.00	17.30	19.00			16.00		19.00		19.00	17.00							
	802.11n-HT20 MCSO	1	2412	16.40	18.00	16.40	18.00			16.00		18.00		18.00	17.00							98.14
		6	2437	17.00	18.50	17.00	18.50	Not Required	16.00	Not Required	18.50	Not Required	18.50	Not Required	17.00	Not Required	17.00	Not Required	17.00	Not Required	17.00	
		11	2462	16.40	18.00	16.40	18.00			16.00		18.00		18.00	17.00							
	802.11n-HT40 MCSO	3	2422	13.10	15.00	13.10	15.00			15.00		15.00		15.00	15.00							91.94
		6	2437	15.90	17.50	15.90	17.50			16.00		17.50		17.50	17.00							
		9	2452	13.60	15.50	13.60	15.50			15.50		15.50		15.50	15.00							

5.2GHz WLAN Ant 5					Default Power Table					At-Head Power Table Standalone WLAN		At-Head Power Table Simultaneous WLAN+WWAN		Body-Worn Power Table Standalone WLAN		Handheld power table Standalone WLAN		Handheld power table Simultaneous WLAN+WWAN		Body-Worn Power Table Simultaneous WLAN+WWAN MHS (Mobile Hotspot) Power Table		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.31	20.00			18.50		14.00	18.31	20.00	18.31	20.00			17.50					98.10
		40	5200	18.22	20.00			18.50		14.00	18.22	20.00	18.22	20.00			17.50					
		44	5220	18.00	19.50			18.50		14.00	18.00	19.50	18.00	19.50			17.50					
		48	5240	17.71	19.50			18.50		14.00	17.71	19.50	17.71	19.50			17.50					
	802.11n-HT20 MCSO	36	5180	17.98	19.50			Not Required	18.50		14.00	19.50		19.50			Not Required	17.50				97.96
		40	5200	17.76	19.50			Not Required	18.50		14.00	19.50		19.50			Not Required	17.50				
		44	5220	17.80	19.50			Not Required	18.50		14.00	19.50		19.50			Not Required	17.50				
		48	5240	17.09	19.00			Not Required	18.50		14.00	19.00		19.00			Not Required	17.50				
	802.11n-HT40 MCSO	38	5190	15.28	17.00	15.28	17.00			14.00		17.00		17.00	15.28	17.00		15.50				96.34
		46	5230	17.10	19.00	16.63	18.50			14.00		19.00		19.00	15.62	17.50		15.50				
	802.11ac-VHT20 MCSO	40	5200	16.82	18.50			Not Required	18.50		14.00	18.50		18.50			Not Required	17.50				98.22
		44	5220	16.73	18.50			Not Required	18.50		14.00	18.50		18.50			Not Required	17.50				
		48	5240	16.60	18.50			Not Required	18.50		14.00	18.50		18.50			Not Required	17.50				
		38	5190	15.25	17.00			Not Required	17.00		14.00	17.00		17.00			Not Required	17.50				
	802.11ac-VHT40 MCSO	46	5230	16.05	18.00			Not Required	18.00		14.00	18.00		18.00			Not Required	17.50				96.36
		42	5210	13.88	15.50			Not Required	15.50	12.44	14.00	15.50		15.50			Not Required	15.50	13.88	15.50		

5.3GHz WLAN Ant 5					Default Power Table					At-Head Power Table Standalone WLAN		At-Head Power Table Simultaneous WLAN+WWAN		Body-Worn Power Table Standalone WLAN		Body-Worn Power Table Simultaneous WLAN+WWAN		Handheld power table Standalone WLAN		Handheld power table Simultaneous WLAN+WWAN		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.3GHz WLAN	802.11a 6Mbps	52	5260	17.74	19.50			18.50		14.00	17.74	19.50		15.50	17.74	19.50						98.10
		56	5280	17.54	19.50			18.50		14.00	17.54	19.50		15.50	17.54	19.50						
		60	5300	17.60	19.50			18.50		14.00	17.60	19.50		15.50	17.60	19.50						
		64	5320	17.40	19.00			18.50		14.00	17.40	19.00		15.50	17.40	19.00						
	802.11n-HT20 MCSO	52	5260	17.59	19.50			Not Required	18.50		14.00	19.50		19.50			Not Required	17.50				97.96
		56	5280	17.42	19.00			Not Required	18.50		14.00	19.00		19.00			Not Required	17.50				
		60	5300	17.45	19.00			Not Required	18.50		14.00	19.00		19.00			Not Required	17.50				
		64	5320	17.31	19.00			Not Required	18.50		14.00	19.00		19.00			Not Required	17.50				
	802.11n-HT40 MCSO	54	5270	16.93	18.50	16.57	18.50			14.00		18.50		18.50	16.02	17.50		16.00	14.22	16.00		96.34
		62	5310	14.22	16.00	14.22	16.00			14.00		16.00		16.00	15.50	16.00		16.00	14.22	16.00		
	802.11ac-VHT20 MCSO	52	5260	16.64	18.50			Not Required	18.50		14.00	18.50		18.50			Not Required	18.50				98.22
		56	5280	16.40	18.00			Not Required	18.00		14.00	18.00		18.00			Not Required	18.00				
		60	5300	16.42	18.00			Not Required	18.00		14.00	18.00		18.00			Not Required	18.00				
		64	5320	16.21	18.00			Not Required	18.00		14.00	18.00		18.00			Not Required	18.00				
	802.11ac-VHT40 MCSO	54	5270	16.00	17.50			Not Required	17.50		14.00	17.50		17.50			Not Required	17.50				96.36
		62	5310	14.19	16.00			Not Required	16.00		14.00	16.00		16.00			Not Required	16.00				
	802.11ac-VHT80 MCSO	58	5290	15.04	17.00			Not Required	17.00	12.22	14.00	17.00		17.00	13.63	15.50		17.00				92.81

5.5GHz WLAN Ant 5					Default Power Table					At-Head Power Table Standalone WLAN		At-Head Power Table Simultaneous WLAN+WWAN		Body-Worn Power Table Standalone WLAN		Body-Worn Power Table Simultaneous WLAN+WWAN		Handheld power table Standalone WLAN		Handheld power table Simultaneous WLAN+WWAN		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit		
5.5GHz WLAN	802.11a 6Mbps	100	5500	17.78	19.50			16.50		13.00	17.78	19.50		15.50	17.78	19.50						98.10
		116	5580	18.13	20.00			16.50		13.00	18.13	20.00		15.50	18.13	20.00						
		132	5660	17.45	19.00			16.50		13.00	17.45	19.00		15.50	17.45	19.00						
		140	5700	17.35	19.00			16.50		13.00	17.35	19.00		15.50	17.35	19.00						
	802.11n-HT20 MCSO	100	5500	17.58	19.50			Not Required	16.50		13.00	19.50		19.50			Not Required	17.50				97.96
		116	5580	17.95	19.50			Not Required	16.50		13.00	19.50		19.50			Not Required	17.50				
		132	5660	17.36	19.00			Not Required	16.50		13.00	19.00		19.00			Not Required	17.50				
		140	5700	17.17	19.00			Not Required	16.50		13.00	19.00		19.00			Not Required	17.50				
	802.11n-HT40 MCSO	102	5510	17.01	19.00			Not Required	16.50		13.00	19.00		19.00			Not Required	17.50				96.34
		110	5550	17.20	19.00			Not Required	16.50		13.00	19.00		19.00			Not Required	17.50				
	802.11ac-VHT20 MCSO	134	5670	16.73	18.50			Not Required	18.50		13.00	18.50		18.50			Not Required	18.50				98.22
		100	5500	16.63	18.50			Not Required	18.50		13.00	18.50		18.50			Not Required	18.50				
		132	5660	16.42	18.00			Not Required	18.00		13.00	18.00		18.00			Not Required	18.00				
		140	5700	16.29	18.00			Not Required	18.00		13.00	18.00		18.								



**BT 2.0 Ant 3**

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	10.10	10.10	10.20	8.20	8.20	8.30	8.00	8.00	8.10	12.00
	CH 39	2441	10.20	10.20	10.30	8.30	8.30	8.40	8.10	8.10	8.20	12.00
	CH 78	2480	9.70	9.70	9.80	7.70	7.70	7.80	7.60	7.60	7.70	11.50

**BT 4.0 Ant 3**

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	11.00	
	CH 19	2440	10.70	
	CH 39	2480	9.90	
Tune-up Limit			12.5	

**BT 5.0 Ant 3**

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	11.00	10.90
	CH 19	2440	10.70	10.60
	CH 39	2480	9.90	9.80
Tune-up Limit			12.5	12.5