



Ant 0								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	33.50	23.15	23.20	22.85	24.50
GSM 1 Tx slot	32.15	32.20	31.85	33.50	23.15	23.20	22.85	24.50
GPRS 1 Tx slot	32.18	32.22	31.86	33.50	23.18	23.22	22.86	24.50
GPRS 2 Tx slots	31.14	31.12	30.80	32.50	25.14	25.12	24.80	26.50
GPRS 3 Tx slots	29.04	29.11	29.03	30.50	24.78	24.85	24.77	26.24
GPRS 4 Tx slots	27.77	28.00	27.60	29.50	24.77	25.00	24.60	26.50
EDGE 1 Tx slot	25.62	25.59	25.53	27.50	16.62	16.59	16.53	18.50
EDGE 2 Tx slots	25.56	25.55	25.30	27.00	19.56	19.55	19.30	21.00
EDGE 3 Tx slots	23.60	23.79	23.44	25.00	19.34	19.53	19.18	20.74
EDGE 4 Tx slots	21.76	21.80	21.52	23.00	18.76	18.80	18.52	20.00
Ant 2								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8	30.50	20.16	20.31	20.70	21.50
GSM 1 Tx slot	29.16	29.31	29.70	30.50	20.16	20.31	20.70	21.50
GPRS 1 Tx slot	29.17	29.36	29.72	30.50	20.17	20.36	20.72	21.50
GPRS 2 Tx slots	28.51	29.00	28.72	29.70	22.51	23.00	22.72	23.70
GPRS 3 Tx slots	27.04	27.21	27.20	28.00	22.78	22.95	22.94	23.74
GPRS 4 Tx slots	26.17	26.00	26.37	27.00	23.17	23.00	23.37	24.00
EDGE 1 Tx slot	25.53	25.80	25.80	26.50	16.53	16.80	16.80	17.50
EDGE 2 Tx slots	24.91	25.30	25.21	26.00	18.91	19.30	19.21	20.00
EDGE 3 Tx slots	23.67	24.19	23.96	25.00	19.41	19.93	19.70	20.74
EDGE 4 Tx slots	22.96	23.31	23.20	24.00	19.96	20.31	20.20	21.00



Ant 1								
GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.47	31.31	31.04	32.20	22.47	22.31	22.04	23.20
GPRS 1 Tx slot	31.51	31.34	31.08	32.20	22.51	22.34	22.08	23.20
GPRS 2 Tx slots	30.46	30.22	30.20	31.20	24.46	24.22	24.20	25.20
GPRS 3 Tx slots	28.37	28.16	28.05	29.20	24.11	23.90	23.79	24.94
GPRS 4 Tx slots	27.31	27.07	27.01	28.20	24.31	24.07	24.01	25.20
EDGE 1 Tx slot	24.93	24.90	24.60	26.50	15.93	15.90	15.60	17.50
EDGE 2 Tx slots	24.64	24.70	24.50	26.00	18.64	18.70	18.50	20.00
EDGE 3 Tx slots	22.91	22.83	22.86	24.00	18.65	18.57	18.60	19.74
EDGE 4 Tx slots	21.01	21.10	20.74	22.00	18.01	18.10	17.74	19.00
Ant 0								
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.00	29.20	29.39	30.20	20.00	20.20	20.39	21.20
GPRS 1 Tx slot	29.13	29.37	29.56	30.20	20.13	20.37	20.56	21.20
GPRS 2 Tx slots	28.50	28.78	28.68	29.70	22.50	22.78	22.68	23.70
GPRS 3 Tx slots	26.80	27.23	27.05	27.70	22.54	22.97	22.79	23.44
GPRS 4 Tx slots	25.51	25.84	25.63	26.70	22.51	22.84	22.63	23.70
EDGE 1 Tx slot	25.56	25.67	25.66	26.50	16.56	16.67	16.66	17.50
EDGE 2 Tx slots	24.74	24.95	25.06	26.00	18.74	18.95	19.06	20.00
EDGE 3 Tx slots	23.52	23.76	23.76	25.00	19.26	19.50	19.50	20.74
EDGE 4 Tx slots	22.59	22.89	22.55	24.00	19.59	19.89	19.55	21.00



Ant 0									
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)									
GSM 1 Tx slot	32.15	32.20	31.85	33.50	23.15	23.20	22.85	24.50	
GPRS 1 Tx slot	32.18	32.22	31.86	33.50	23.18	23.22	22.86	24.50	
GPRS 2 Tx slots	31.14	31.12	30.80	32.50	25.14	25.12	24.80	26.50	
GPRS 3 Tx slots	29.04	29.11	29.03	30.50	24.78	24.85	24.77	26.24	
GPRS 4 Tx slots	27.77	28.00	27.60	29.50	24.77	25.00	24.60	26.50	
EDGE 1 Tx slot	25.62	25.59	25.53	27.50	16.62	16.59	16.53	18.50	
EDGE 2 Tx slots	25.56	25.55	25.30	27.00	19.56	19.55	19.30	21.00	
EDGE 3 Tx slots	23.60	23.79	23.44	25.00	19.34	19.53	19.18	20.74	
EDGE 4 Tx slots	21.76	21.80	21.52	23.00	18.76	18.80	18.52	20.00	
Ant 2									
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		512	661	810		
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)									
GSM 1 Tx slot	29.16	29.31	29.70	30.50	20.16	20.31	20.70	21.50	
GPRS 1 Tx slot	29.17	29.36	29.72	30.50	20.17	20.36	20.72	21.50	
GPRS 2 Tx slots	28.51	29.00	28.72	29.70	22.51	23.00	22.72	23.70	
GPRS 3 Tx slots	27.04	27.21	27.20	28.00	22.78	22.95	22.94	23.74	
GPRS 4 Tx slots	26.17	26.00	26.37	27.00	23.17	23.00	23.37	24.00	
EDGE 1 Tx slot	25.53	25.80	25.80	26.50	16.53	16.80	16.80	17.50	
EDGE 2 Tx slots	24.91	25.30	25.21	26.00	18.91	19.30	19.21	20.00	
EDGE 3 Tx slots	23.67	24.19	23.96	25.00	19.41	19.93	19.70	20.74	
EDGE 4 Tx slots	22.96	23.31	23.20	24.00	19.96	20.31	20.20	21.00	



Ant 1								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.47	31.31	31.04	32.20	22.47	22.31	22.04	23.20
GPRS 1 Tx slot	31.51	31.34	31.08	32.20	22.51	22.34	22.08	23.20
GPRS 2 Tx slots	30.46	30.22	30.20	31.20	24.46	24.22	24.20	25.20
GPRS 3 Tx slots	28.37	28.16	28.05	29.20	24.11	23.90	23.79	24.94
GPRS 4 Tx slots	27.38	27.27	27.36	28.20	24.38	24.27	24.36	25.20
EDGE 1 Tx slot	24.93	24.90	24.60	26.50	15.93	15.90	15.60	17.50
EDGE 2 Tx slots	24.64	24.70	24.50	26.00	18.64	18.70	18.50	20.00
EDGE 3 Tx slots	22.91	22.83	22.86	24.00	18.65	18.57	18.60	19.74
EDGE 4 Tx slots	21.01	21.10	20.74	22.00	18.01	18.10	17.74	19.00
Ant 0								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.00	29.20	29.39	30.20	20.00	20.20	20.39	21.20
GPRS 1 Tx slot	29.13	29.37	29.56	30.20	20.13	20.37	20.56	21.20
GPRS 2 Tx slots	28.50	28.78	28.68	29.70	22.50	22.78	22.68	23.70
GPRS 3 Tx slots	26.80	27.23	27.05	27.70	22.54	22.97	22.79	23.44
GPRS 4 Tx slots	25.51	25.84	25.63	26.70	22.51	22.84	22.63	23.70
EDGE 1 Tx slot	25.56	25.67	25.66	26.50	16.56	16.67	16.66	17.50
EDGE 2 Tx slots	24.74	24.95	25.06	26.00	18.74	18.95	19.06	20.00
EDGE 3 Tx slots	23.52	23.76	23.76	25.00	19.26	19.50	19.50	20.74
EDGE 4 Tx slots	22.59	22.89	22.55	24.00	19.59	19.89	19.55	21.00



Ant 0								
GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.15	32.20	31.85	33.50	23.15	23.20	22.85	24.50
GPRS 1 Tx slot	32.18	32.22	31.86	33.50	23.18	23.22	22.86	24.50
GPRS 2 Tx slots	31.14	31.12	30.80	32.50	25.14	25.12	24.80	26.50
GPRS 3 Tx slots	29.04	29.11	29.03	30.50	24.78	24.85	24.77	26.24
GPRS 4 Tx slots	27.77	28.00	27.60	29.50	24.77	25.00	24.60	26.50
EDGE 1 Tx slot	25.62	25.59	25.53	27.50	16.62	16.59	16.53	18.50
EDGE 2 Tx slots	25.56	25.55	25.30	27.00	19.56	19.55	19.30	21.00
EDGE 3 Tx slots	23.60	23.79	23.44	25.00	19.34	19.53	19.18	20.74
EDGE 4 Tx slots	21.76	21.80	21.52	23.00	18.76	18.80	18.52	20.00
Ant 2								
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.16	29.31	29.70	30.50	20.16	20.31	20.70	21.50
GPRS 1 Tx slot	29.17	29.36	29.72	30.50	20.17	20.36	20.72	21.50
GPRS 2 Tx slots	28.51	29.00	28.72	29.70	22.51	23.00	22.72	23.70
GPRS 3 Tx slots	27.04	27.21	27.20	28.00	22.78	22.95	22.94	23.74
GPRS 4 Tx slots	26.17	26.00	26.37	27.00	23.17	23.00	23.37	24.00
EDGE 1 Tx slot	25.53	25.80	25.80	26.50	16.53	16.80	16.80	17.50
EDGE 2 Tx slots	24.91	25.30	25.21	26.00	18.91	19.30	19.21	20.00
EDGE 3 Tx slots	23.67	24.19	23.96	25.00	19.41	19.93	19.70	20.74
EDGE 4 Tx slots	22.96	23.31	23.20	24.00	19.96	20.31	20.20	21.00



Ant 1								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.47	31.31	31.04	32.20	22.47	22.31	22.04	23.20
GPRS 1 Tx slot	31.51	31.34	31.08	32.20	22.51	22.34	22.08	23.20
GPRS 2 Tx slots	30.46	30.22	30.20	31.20	24.46	24.22	24.20	25.20
GPRS 3 Tx slots	28.37	28.16	28.05	29.20	24.11	23.90	23.79	24.94
GPRS 4 Tx slots	27.38	27.27	27.36	28.20	24.38	24.27	24.36	25.20
EDGE 1 Tx slot	24.93	24.90	24.60	26.50	15.93	15.90	15.60	17.50
EDGE 2 Tx slots	24.64	24.70	24.50	26.00	18.64	18.70	18.50	20.00
EDGE 3 Tx slots	22.91	22.83	22.86	24.00	18.65	18.57	18.60	19.74
EDGE 4 Tx slots	21.01	21.10	20.74	22.00	18.01	18.10	17.74	19.00
Ant 0								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.00	29.20	29.39	30.20	20.00	20.20	20.39	21.20
GPRS 1 Tx slot	29.13	29.37	29.56	30.20	20.13	20.37	20.56	21.20
GPRS 2 Tx slots	28.50	28.78	28.68	29.70	22.50	22.78	22.68	23.70
GPRS 3 Tx slots	26.80	27.23	27.05	27.70	22.54	22.97	22.79	23.44
GPRS 4 Tx slots	25.51	25.84	25.63	26.70	22.51	22.84	22.63	23.70
EDGE 1 Tx slot	25.56	25.67	25.66	26.50	16.56	16.67	16.66	17.50
EDGE 2 Tx slots	24.74	24.95	25.06	26.00	18.74	18.95	19.06	20.00
EDGE 3 Tx slots	23.52	23.76	23.76	25.00	19.26	19.50	19.50	20.74
EDGE 4 Tx slots	22.59	22.89	22.55	24.00	19.59	19.89	19.55	21.00



Ant 0								
GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.15	32.20	31.85	33.50	23.15	23.20	22.85	24.50
GPRS 1 Tx slot	32.18	32.22	31.86	33.50	23.18	23.22	22.86	24.50
GPRS 2 Tx slots	31.14	31.12	30.80	32.50	25.14	25.12	24.80	26.50
GPRS 3 Tx slots	29.04	29.11	29.03	30.50	24.78	24.85	24.77	26.24
GPRS 4 Tx slots	27.77	28.00	27.60	29.50	24.77	25.00	24.60	26.50
EDGE 1 Tx slot	25.62	25.59	25.53	27.50	16.62	16.59	16.53	18.50
EDGE 2 Tx slots	25.56	25.55	25.30	27.00	19.56	19.55	19.30	21.00
EDGE 3 Tx slots	23.60	23.79	23.44	25.00	19.34	19.53	19.18	20.74
EDGE 4 Tx slots	21.76	21.80	21.52	23.00	18.76	18.80	18.52	20.00
Ant 2								
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.16	29.31	29.70	30.50	20.16	20.31	20.70	21.50
GPRS 1 Tx slot	29.17	29.36	29.72	30.50	20.17	20.36	20.72	21.50
GPRS 2 Tx slots	28.51	29.00	28.72	29.70	22.51	23.00	22.72	23.70
GPRS 3 Tx slots	27.04	27.21	27.20	28.00	22.78	22.95	22.94	23.74
GPRS 4 Tx slots	26.17	26.00	26.37	27.00	23.17	23.00	23.37	24.00
EDGE 1 Tx slot	25.53	25.80	25.80	26.50	16.53	16.80	16.80	17.50
EDGE 2 Tx slots	24.91	25.30	25.21	26.00	18.91	19.30	19.21	20.00
EDGE 3 Tx slots	23.67	24.19	23.96	25.00	19.41	19.93	19.70	20.74
EDGE 4 Tx slots	22.96	23.31	23.20	24.00	19.96	20.31	20.20	21.00



Ant 1								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8	32.20	22.47	22.31	22.04	23.20
Frequency (MHz)	824.2	836.4	848.8	32.20	22.47	22.31	22.04	23.20
GSM 1 Tx slot	31.47	31.31	31.04	32.20	22.47	22.31	22.04	23.20
GPRS 1 Tx slot	31.51	31.34	31.08	32.20	22.51	22.34	22.08	23.20
GPRS 2 Tx slots	30.46	30.22	30.20	31.20	24.46	24.22	24.20	25.20
GPRS 3 Tx slots	28.37	28.16	28.05	29.20	24.11	23.90	23.79	24.94
GPRS 4 Tx slots	27.38	27.27	27.36	28.20	24.38	24.27	24.36	25.20
EDGE 1 Tx slot	24.93	24.90	24.60	26.50	15.93	15.90	15.60	17.50
EDGE 2 Tx slots	24.64	24.70	24.50	26.00	18.64	18.70	18.50	20.00
EDGE 3 Tx slots	22.91	22.83	22.86	24.00	18.65	18.57	18.60	19.74
EDGE 4 Tx slots	21.01	21.10	20.74	22.00	18.01	18.10	17.74	19.00
Ant 0								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8	30.20	20.00	20.20	20.39	21.20
Frequency (MHz)	1850.2	1880	1909.8	30.20	20.00	20.20	20.39	21.20
GSM 1 Tx slot	29.00	29.20	29.39	30.20	20.00	20.20	20.39	21.20
GPRS 1 Tx slot	29.13	29.37	29.56	30.20	20.13	20.37	20.56	21.20
GPRS 2 Tx slots	28.50	28.78	28.68	29.70	22.50	22.78	22.68	23.70
GPRS 3 Tx slots	26.80	27.23	27.05	27.70	22.54	22.97	22.79	23.44
GPRS 4 Tx slots	25.51	25.84	25.63	26.70	22.51	22.84	22.63	23.70
EDGE 1 Tx slot	25.56	25.67	25.66	26.50	16.56	16.67	16.66	17.50
EDGE 2 Tx slots	24.74	24.95	25.06	26.00	18.74	18.95	19.06	20.00
EDGE 3 Tx slots	23.52	23.76	23.76	25.00	19.26	19.50	19.50	20.74
EDGE 4 Tx slots	22.59	22.89	22.55	24.00	19.59	19.89	19.55	21.00



Ant 0								
GSM850 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.15	32.20	31.85	33.50	23.15	23.20	22.85	24.50
GPRS 1 Tx slot	32.18	32.22	31.86	33.50	23.18	23.22	22.86	24.50
GPRS 2 Tx slots	31.14	31.12	30.80	32.50	25.14	25.12	24.80	26.50
GPRS 3 Tx slots	29.04	29.11	29.03	30.50	24.78	24.85	24.77	26.24
GPRS 4 Tx slots	27.77	28.00	27.60	29.50	24.77	25.00	24.60	26.50
EDGE 1 Tx slot	25.62	25.59	25.53	27.50	16.62	16.59	16.53	18.50
EDGE 2 Tx slots	25.56	25.55	25.30	27.00	19.56	19.55	19.30	21.00
EDGE 3 Tx slots	23.60	23.79	23.44	25.00	19.34	19.53	19.18	20.74
EDGE 4 Tx slots	21.76	21.80	21.52	23.00	18.76	18.80	18.52	20.00
Ant 2								
GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.16	29.31	29.70	30.50	20.16	20.31	20.70	21.50
GPRS 1 Tx slot	29.17	29.36	29.72	30.50	20.17	20.36	20.72	21.50
GPRS 2 Tx slots	28.51	29.00	28.72	29.70	22.51	23.00	22.72	23.70
GPRS 3 Tx slots	27.04	27.21	27.20	28.00	22.78	22.95	22.94	23.74
GPRS 4 Tx slots	26.17	26.00	26.37	27.00	23.17	23.00	23.37	24.00
EDGE 1 Tx slot	25.53	25.80	25.80	26.50	16.53	16.80	16.80	17.50
EDGE 2 Tx slots	24.91	25.30	25.21	26.00	18.91	19.30	19.21	20.00
EDGE 3 Tx slots	23.67	24.19	23.96	25.00	19.41	19.93	19.70	20.74
EDGE 4 Tx slots	22.96	23.31	23.20	24.00	19.96	20.31	20.20	21.00



Ant 1								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8	32.20	22.47	22.31	22.04	23.20
GSM 1 Tx slot	31.47	31.31	31.04	32.20	22.47	22.31	22.04	23.20
GPRS 1 Tx slot	31.51	31.34	31.08	32.20	22.51	22.34	22.08	23.20
GPRS 2 Tx slots	30.46	30.22	30.20	31.20	24.46	24.22	24.20	25.20
GPRS 3 Tx slots	28.37	28.16	28.05	29.20	24.11	23.90	23.79	24.94
GPRS 4 Tx slots	27.38	27.27	27.36	28.20	24.38	24.27	24.36	25.20
EDGE 1 Tx slot	24.93	24.90	24.60	26.50	15.93	15.90	15.60	17.50
EDGE 2 Tx slots	24.64	24.70	24.50	26.00	18.64	18.70	18.50	20.00
EDGE 3 Tx slots	22.91	22.83	22.86	24.00	18.65	18.57	18.60	19.74
EDGE 4 Tx slots	21.01	21.10	20.74	22.00	18.01	18.10	17.74	19.00
Ant 0								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8	30.20	20.00	20.20	20.39	21.20
GSM 1 Tx slot	29.00	29.20	29.39	30.20	20.00	20.20	20.39	21.20
GPRS 1 Tx slot	29.13	29.37	29.56	30.20	20.13	20.37	20.56	21.20
GPRS 2 Tx slots	28.50	28.78	28.68	29.70	22.50	22.78	22.68	23.70
GPRS 3 Tx slots	26.80	27.23	27.05	27.70	22.54	22.97	22.79	23.44
GPRS 4 Tx slots	25.51	25.84	25.63	26.70	22.51	22.84	22.63	23.70
EDGE 1 Tx slot	25.56	25.67	25.66	26.50	16.56	16.67	16.66	17.50
EDGE 2 Tx slots	24.74	24.95	25.06	26.00	18.74	18.95	19.06	20.00
EDGE 3 Tx slots	23.52	23.76	23.76	25.00	19.26	19.50	19.50	20.74
EDGE 4 Tx slots	22.59	22.89	22.55	24.00	19.59	19.89	19.55	21.00



Ant 0								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.15	32.20	31.85	33.50	23.15	23.20	22.85	24.50
GPRS 1 Tx slot	32.18	32.22	31.86	33.50	23.18	23.22	22.86	24.50
GPRS 2 Tx slots	31.14	31.12	30.80	32.50	25.14	25.12	24.80	26.50
GPRS 3 Tx slots	29.04	29.11	29.03	30.50	24.78	24.85	24.77	26.24
GPRS 4 Tx slots	27.77	28.00	27.60	29.50	24.77	25.00	24.60	26.50
EDGE 1 Tx slot	25.62	25.59	25.53	27.50	16.62	16.59	16.53	18.50
EDGE 2 Tx slots	25.56	25.55	25.30	27.00	19.56	19.55	19.30	21.00
EDGE 3 Tx slots	23.60	23.79	23.44	25.00	19.34	19.53	19.18	20.74
EDGE 4 Tx slots	21.76	21.80	21.52	23.00	18.76	18.80	18.52	20.00
Ant 2								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.16	29.31	29.70	30.50	20.16	20.31	20.70	21.50
GPRS 1 Tx slot	29.17	29.36	29.72	30.50	20.17	20.36	20.72	21.50
GPRS 2 Tx slots	28.51	29.00	28.72	29.70	22.51	23.00	22.72	23.70
GPRS 3 Tx slots	27.04	27.21	27.20	28.00	22.78	22.95	22.94	23.74
GPRS 4 Tx slots	26.17	26.00	26.37	27.00	23.17	23.00	23.37	24.00
EDGE 1 Tx slot	25.53	25.80	25.80	26.50	16.53	16.80	16.80	17.50
EDGE 2 Tx slots	24.91	25.30	25.21	26.00	18.91	19.30	19.21	20.00
EDGE 3 Tx slots	23.67	24.19	23.96	25.00	19.41	19.93	19.70	20.74
EDGE 4 Tx slots	22.96	23.31	23.20	24.00	19.96	20.31	20.20	21.00



Ant 1								
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.47	31.31	31.04	32.20	22.47	22.31	22.04	23.20
GPRS 1 Tx slot	31.51	31.34	31.08	32.20	22.51	22.34	22.08	23.20
GPRS 2 Tx slots	30.46	30.22	30.20	31.20	24.46	24.22	24.20	25.20
GPRS 3 Tx slots	28.37	28.16	28.05	29.20	24.11	23.90	23.79	24.94
GPRS 4 Tx slots	27.38	27.27	27.36	28.20	24.38	24.27	24.36	25.20
EDGE 1 Tx slot	24.93	24.90	24.60	26.50	15.93	15.90	15.60	17.50
EDGE 2 Tx slots	24.64	24.70	24.50	26.00	18.64	18.70	18.50	20.00
EDGE 3 Tx slots	22.91	22.83	22.86	24.00	18.65	18.57	18.60	19.74
EDGE 4 Tx slots	21.01	21.10	20.74	22.00	18.01	18.10	17.74	19.00
Ant 0								
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.00	29.20	29.39	30.20	20.00	20.20	20.39	21.20
GPRS 1 Tx slot	29.13	29.37	29.56	30.20	20.13	20.37	20.56	21.20
GPRS 2 Tx slots	28.50	28.78	28.68	29.70	22.50	22.78	22.68	23.70
GPRS 3 Tx slots	26.80	27.23	27.05	27.70	22.54	22.97	22.79	23.44
GPRS 4 Tx slots	25.51	25.84	25.63	26.70	22.51	22.84	22.63	23.70
EDGE 1 Tx slot	25.56	25.67	25.66	26.50	16.56	16.67	16.66	17.50
EDGE 2 Tx slots	24.74	24.95	25.06	26.00	18.74	18.95	19.06	20.00
EDGE 3 Tx slots	23.52	23.76	23.76	25.00	19.26	19.50	19.50	20.74
EDGE 4 Tx slots	22.59	22.89	22.55	24.00	19.59	19.89	19.55	21.00



Band	TX Channel	Rx Channel	Ant 2			Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	
			WCDMA II			WCDMA IV				WCDMA V				
			9262	9400	9538	1312	1413	1513		4132	4182	4233		
			1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99	AMR 12.2Kbps		24.56	24.76	24.90	25.70	24.75	24.81	24.79	25.70	24.02	24.16	24.10	25.70
3GPP Rel 99	RMC 12.2Kbps		24.59	24.77	24.92	25.70	24.77	24.87	24.81	25.70	24.08	24.17	24.16	25.70
3GPP Rel 6	HSDPA Subtest-1		23.50	24.48	23.85	24.70	23.83	23.60	23.47	24.70	23.09	23.22	23.21	24.70
3GPP Rel 6	HSDPA Subtest-2		23.44	24.42	23.80	24.70	23.82	23.57	23.51	24.70	23.10	23.23	23.26	24.70
3GPP Rel 6	HSDPA Subtest-3		22.99	23.99	23.33	24.20	23.37	23.11	23.04	24.20	22.64	22.73	22.70	24.20
3GPP Rel 6	HSDPA Subtest-4		22.99	23.91	23.29	24.20	23.28	23.11	23.04	24.20	22.61	22.76	22.67	24.20
3GPP Rel 8	DC-HSDPA Subtest-1		23.43	24.39	23.79	24.70	23.76	23.55	23.46	24.70	22.99	23.22	23.16	24.70
3GPP Rel 8	DC-HSDPA Subtest-2		23.34	24.37	23.72	24.70	23.80	23.55	23.49	24.70	23.02	23.17	23.20	24.70
3GPP Rel 8	DC-HSDPA Subtest-3		22.90	23.99	23.26	24.20	23.28	23.02	22.98	24.20	22.58	22.66	22.64	24.20
3GPP Rel 8	DC-HSDPA Subtest-4		22.94	23.87	23.26	24.20	23.25	23.10	22.98	24.20	22.54	22.76	22.57	24.20
3GPP Rel 6	HSUPA Subtest-1		23.42	24.45	23.86	24.70	23.81	23.62	23.57	24.70	23.11	23.17	23.20	24.70
3GPP Rel 6	HSUPA Subtest-2		21.44	22.45	21.81	22.70	21.80	21.54	21.49	22.70	21.15	21.19	21.21	22.70
3GPP Rel 6	HSUPA Subtest-3		22.47	23.50	22.81	23.70	22.86	22.59	22.51	23.70	22.15	22.17	22.19	23.70
3GPP Rel 6	HSUPA Subtest-4		21.45	22.43	21.82	22.70	21.87	21.56	21.52	22.70	21.13	21.23	21.19	22.70
3GPP Rel 6	HSUPA Subtest-5		23.47	24.40	23.79	24.70	23.87	23.56	23.57	24.70	23.15	23.17	23.19	24.70



Band		Ant 0			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)
		WCDMA II				WCDMA IV				WCDMA V			
		TX Channel	9262	9400		9538	1312	1413		1513	4132	4182	
	Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458			
	Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99	AMR 12.2Kbps	23.70	23.90	23.97	25.50	23.88	23.92	23.87	25.50	23.53	23.60	23.47	25.00
3GPP Rel 99	RMC 12.2Kbps	23.75	23.79	23.98	25.50	23.89	24.01	23.97	25.50	23.57	23.62	23.57	25.00
3GPP Rel 6	HSDPA Subtest-1	22.83	22.99	23.08	24.50	23.02	23.07	23.04	24.50	22.66	22.73	22.63	24.00
3GPP Rel 6	HSDPA Subtest-2	22.81	22.96	22.81	24.50	23.03	23.06	22.98	24.50	22.69	22.68	22.65	24.00
3GPP Rel 6	HSDPA Subtest-3	22.33	22.45	22.59	24.00	22.51	22.58	22.51	24.00	22.17	21.87	22.16	23.50
3GPP Rel 6	HSDPA Subtest-4	22.30	22.45	22.60	24.00	22.53	22.55	22.49	24.00	22.15	22.20	22.15	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.83	22.98	23.07	24.50	22.93	23.02	23.04	24.50	22.57	22.65	22.57	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.73	22.91	22.81	24.50	22.95	23.01	22.90	24.50	22.64	22.65	22.61	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.29	22.35	22.51	24.00	22.44	22.48	22.42	24.00	22.16	21.81	22.07	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.26	22.43	22.53	24.00	22.50	22.47	22.40	24.00	22.11	22.15	22.14	23.50
3GPP Rel 6	HSUPA Subtest-1	22.82	23.03	23.07	24.50	23.05	23.11	23.00	24.50	22.62	22.68	22.66	24.00
3GPP Rel 6	HSUPA Subtest-2	20.84	20.98	21.06	22.50	21.01	21.07	21.04	22.50	20.62	20.73	20.69	22.00
3GPP Rel 6	HSUPA Subtest-3	21.83	21.97	22.07	23.50	22.04	22.04	21.97	23.50	21.62	21.69	21.62	23.00
3GPP Rel 6	HSUPA Subtest-4	20.81	20.92	21.07	22.50	21.07	21.08	20.98	22.50	20.64	20.72	20.63	22.00
3GPP Rel 6	HSUPA Subtest-5	22.80	22.90	23.10	24.50	23.00	23.10	23.00	24.50	22.60	22.70	22.60	24.00



Band	Ant 2				Ant 2				Ant 0				
	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458				
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6				
3GPP Rel 99	AMR 12.2Kbps	24.56	24.76	24.90	25.70	24.75	24.81	24.79	25.70	24.02	24.16	24.10	25.70
3GPP Rel 99	RMC 12.2Kbps	24.59	24.77	24.92	25.70	24.77	24.87	24.81	25.70	24.08	24.17	24.16	25.70
3GPP Rel 6	HSDPA Subtest-1	23.50	24.48	23.85	24.70	23.83	23.60	23.47	24.70	23.09	23.22	23.21	24.70
3GPP Rel 6	HSDPA Subtest-2	23.44	24.42	23.80	24.70	23.82	23.57	23.51	24.70	23.10	23.23	23.26	24.70
3GPP Rel 6	HSDPA Subtest-3	22.99	23.99	23.33	24.20	23.37	23.11	23.04	24.20	22.64	22.73	22.70	24.20
3GPP Rel 6	HSDPA Subtest-4	22.99	23.91	23.29	24.20	23.28	23.11	23.04	24.20	22.61	22.76	22.67	24.20
3GPP Rel 8	DC-HSDPA Subtest-1	23.43	24.39	23.79	24.70	23.76	23.55	23.46	24.70	22.99	23.22	23.16	24.70
3GPP Rel 8	DC-HSDPA Subtest-2	23.34	24.37	23.72	24.70	23.80	23.55	23.49	24.70	23.02	23.17	23.20	24.70
3GPP Rel 8	DC-HSDPA Subtest-3	22.90	23.99	23.26	24.20	23.28	23.02	22.98	24.20	22.58	22.66	22.64	24.20
3GPP Rel 8	DC-HSDPA Subtest-4	22.94	23.87	23.26	24.20	23.25	23.10	22.98	24.20	22.54	22.76	22.57	24.20
3GPP Rel 6	HSUPA Subtest-1	23.42	24.45	23.86	24.70	23.81	23.62	23.57	24.70	23.11	23.17	23.20	24.70
3GPP Rel 6	HSUPA Subtest-2	21.44	22.45	21.81	22.70	21.80	21.54	21.49	22.70	21.15	21.19	21.21	22.70
3GPP Rel 6	HSUPA Subtest-3	22.47	23.50	22.81	23.70	22.86	22.59	22.51	23.70	22.15	22.17	22.19	23.70
3GPP Rel 6	HSUPA Subtest-4	21.45	22.43	21.82	22.70	21.87	21.56	21.52	22.70	21.13	21.23	21.19	22.70
3GPP Rel 6	HSUPA Subtest-5	23.47	24.40	23.79	24.70	23.87	23.56	23.57	24.70	23.15	23.17	23.19	24.70



Band		Ant 0			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)
		WCDMA II				WCDMA IV				WCDMA V			
		TX Channel	9262	9400		9538	1312	1413		1513	4132	4182	
	Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458			
	Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99	AMR 12.2Kbps	23.70	23.90	23.97	25.50	23.88	23.92	23.87	25.50	23.53	23.60	23.47	25.00
3GPP Rel 99	RMC 12.2Kbps	23.75	23.79	23.98	25.50	23.89	24.01	23.97	25.50	23.57	23.62	23.57	25.00
3GPP Rel 6	HSDPA Subtest-1	22.83	22.99	23.08	24.50	23.02	23.07	23.04	24.50	22.66	22.73	22.63	24.00
3GPP Rel 6	HSDPA Subtest-2	22.81	22.96	22.81	24.50	23.03	23.06	22.98	24.50	22.69	22.68	22.65	24.00
3GPP Rel 6	HSDPA Subtest-3	22.33	22.45	22.59	24.00	22.51	22.58	22.51	24.00	22.17	21.87	22.16	23.50
3GPP Rel 6	HSDPA Subtest-4	22.30	22.45	22.60	24.00	22.53	22.55	22.49	24.00	22.15	22.20	22.15	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.83	22.98	23.07	24.50	22.93	23.02	23.04	24.50	22.57	22.65	22.57	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.73	22.91	22.81	24.50	22.95	23.01	22.90	24.50	22.64	22.65	22.61	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.29	22.35	22.51	24.00	22.44	22.48	22.42	24.00	22.16	21.81	22.07	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.26	22.43	22.53	24.00	22.50	22.47	22.40	24.00	22.11	22.15	22.14	23.50
3GPP Rel 6	HSUPA Subtest-1	22.82	23.03	23.07	24.50	23.05	23.11	23.00	24.50	22.62	22.68	22.66	24.00
3GPP Rel 6	HSUPA Subtest-2	20.84	20.98	21.06	22.50	21.01	21.07	21.04	22.50	20.62	20.73	20.69	22.00
3GPP Rel 6	HSUPA Subtest-3	21.83	21.97	22.07	23.50	22.04	22.04	21.97	23.50	21.62	21.69	21.62	23.00
3GPP Rel 6	HSUPA Subtest-4	20.81	20.92	21.07	22.50	21.07	21.08	20.98	22.50	20.64	20.72	20.63	22.00
3GPP Rel 6	HSUPA Subtest-5	22.80	22.90	23.10	24.50	23.00	23.10	23.00	24.50	22.60	22.70	22.60	24.00



Band	TX Channel	Rx Channel	Ant 2			Ant 2			Ant 0			Tune-up Limit (dBm)		
			WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			
			9262	9400	9538		1312	1413	1513		4132		4182	4233
	Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps		24.56	24.76	24.90	25.70	24.75	24.81	24.79	25.70	24.02	24.16	24.10	25.70
3GPP Rel 99	RMC 12.2Kbps		24.59	24.77	24.92	25.70	24.77	24.87	24.81	25.70	24.08	24.17	24.16	25.70
3GPP Rel 6	HSDPA Subtest-1		23.50	24.48	23.85	24.70	23.83	23.60	23.47	24.70	23.09	23.22	23.21	24.70
3GPP Rel 6	HSDPA Subtest-2		23.44	24.42	23.80	24.70	23.82	23.57	23.51	24.70	23.10	23.23	23.26	24.70
3GPP Rel 6	HSDPA Subtest-3		22.99	23.99	23.33	24.20	23.37	23.11	23.04	24.20	22.64	22.73	22.70	24.20
3GPP Rel 6	HSDPA Subtest-4		22.99	23.91	23.29	24.20	23.28	23.11	23.04	24.20	22.61	22.76	22.67	24.20
3GPP Rel 8	DC-HSDPA Subtest-1		23.43	24.39	23.79	24.70	23.76	23.55	23.46	24.70	22.99	23.22	23.16	24.70
3GPP Rel 8	DC-HSDPA Subtest-2		23.34	24.37	23.72	24.70	23.80	23.55	23.49	24.70	23.02	23.17	23.20	24.70
3GPP Rel 8	DC-HSDPA Subtest-3		22.90	23.99	23.26	24.20	23.28	23.02	22.98	24.20	22.58	22.66	22.64	24.20
3GPP Rel 8	DC-HSDPA Subtest-4		22.94	23.87	23.26	24.20	23.25	23.10	22.98	24.20	22.54	22.76	22.57	24.20
3GPP Rel 6	HSUPA Subtest-1		23.42	24.45	23.86	24.70	23.81	23.62	23.57	24.70	23.11	23.17	23.20	24.70
3GPP Rel 6	HSUPA Subtest-2		21.44	22.45	21.81	22.70	21.80	21.54	21.49	22.70	21.15	21.19	21.21	22.70
3GPP Rel 6	HSUPA Subtest-3		22.47	23.50	22.81	23.70	22.86	22.59	22.51	23.70	22.15	22.17	22.19	23.70
3GPP Rel 6	HSUPA Subtest-4		21.45	22.43	21.82	22.70	21.87	21.56	21.52	22.70	21.13	21.23	21.19	22.70
3GPP Rel 6	HSUPA Subtest-5		23.47	24.40	23.79	24.70	23.87	23.56	23.57	24.70	23.15	23.17	23.19	24.70



Band	TX Channel	Rx Channel	Ant 0			Ant 0			Ant 1			Tune-up Limit (dBm)		
			WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			
			9262	9400	9538		1312	1413	1513		4132		4182	4233
	Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	AMR 12.2Kbps		23.70	23.90	23.97	25.50	23.88	23.92	23.87	25.50	23.53	23.60	23.47	25.00
3GPP Rel 99	RMC 12.2Kbps		23.75	23.79	23.98	25.50	23.89	24.01	23.97	25.50	23.57	23.62	23.57	25.00
3GPP Rel 6	HSDPA Subtest-1		22.83	22.99	23.08	24.50	23.02	23.07	23.04	24.50	22.66	22.73	22.63	24.00
3GPP Rel 6	HSDPA Subtest-2		22.81	22.96	22.81	24.50	23.03	23.06	22.98	24.50	22.69	22.68	22.65	24.00
3GPP Rel 6	HSDPA Subtest-3		22.33	22.45	22.59	24.00	22.51	22.58	22.51	24.00	22.17	21.87	22.16	23.50
3GPP Rel 6	HSDPA Subtest-4		22.30	22.45	22.60	24.00	22.53	22.55	22.49	24.00	22.15	22.20	22.15	23.50
3GPP Rel 8	DC-HSDPA Subtest-1		22.83	22.98	23.07	24.50	22.93	23.02	23.04	24.50	22.57	22.65	22.57	24.00
3GPP Rel 8	DC-HSDPA Subtest-2		22.73	22.91	22.81	24.50	22.95	23.01	22.90	24.50	22.64	22.65	22.61	24.00
3GPP Rel 8	DC-HSDPA Subtest-3		22.29	22.35	22.51	24.00	22.44	22.48	22.42	24.00	22.16	21.81	22.07	23.50
3GPP Rel 8	DC-HSDPA Subtest-4		22.26	22.43	22.53	24.00	22.50	22.47	22.40	24.00	22.11	22.15	22.14	23.50
3GPP Rel 6	HSUPA Subtest-1		22.82	23.03	23.07	24.50	23.05	23.11	23.00	24.50	22.62	22.68	22.66	24.00
3GPP Rel 6	HSUPA Subtest-2		20.84	20.98	21.06	22.50	21.01	21.07	21.04	22.50	20.62	20.73	20.69	22.00
3GPP Rel 6	HSUPA Subtest-3		21.83	21.97	22.07	23.50	22.04	22.04	21.97	23.50	21.62	21.69	21.62	23.00
3GPP Rel 6	HSUPA Subtest-4		20.81	20.92	21.07	22.50	21.07	21.08	20.98	22.50	20.64	20.72	20.63	22.00
3GPP Rel 6	HSUPA Subtest-5		22.80	22.90	23.10	24.50	23.00	23.10	23.00	24.50	22.60	22.70	22.60	24.00



Band	Ant 2			Tune-up Limit (dBm)	Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	
	WCDMA II				WCDMA IV				WCDMA V				
	TX Channel	9262	9400		9538	1312	1413		1513	4132	4182		4233
	Rx Channel	9662	9800		9938	1537	1638		1738	4357	4407		4458
Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6				
3GPP Rel 99	AMR 12.2Kbps	24.06	24.31	24.46	25.70	23.74	23.83	23.69	25.20	24.02	24.16	24.10	25.70
3GPP Rel 99	RMC 12.2Kbps	24.13	24.37	24.49	25.70	23.75	23.84	23.76	25.20	24.08	24.17	24.16	25.70
3GPP Rel 6	HSDPA Subtest-1	23.14	23.39	23.47	24.70	22.82	22.88	22.77	24.20	23.09	23.22	23.21	24.70
3GPP Rel 6	HSDPA Subtest-2	23.15	23.39	23.50	24.70	22.80	22.86	22.77	24.20	23.10	23.23	23.26	24.70
3GPP Rel 6	HSDPA Subtest-3	22.66	22.89	22.96	24.20	22.31	22.36	22.27	23.70	22.64	22.73	22.70	24.20
3GPP Rel 6	HSDPA Subtest-4	22.64	22.89	22.98	24.20	22.30	22.40	22.26	23.70	22.61	22.76	22.67	24.20
3GPP Rel 8	DC-HSDPA Subtest-1	23.04	23.36	23.43	24.70	22.82	22.79	22.74	24.20	22.99	23.22	23.16	24.70
3GPP Rel 8	DC-HSDPA Subtest-2	23.15	23.34	23.49	24.70	22.74	22.84	22.71	24.20	23.02	23.17	23.20	24.70
3GPP Rel 8	DC-HSDPA Subtest-3	22.66	22.81	22.91	24.20	22.27	22.30	22.27	23.70	22.58	22.66	22.64	24.20
3GPP Rel 8	DC-HSDPA Subtest-4	22.61	22.85	22.95	24.20	22.23	22.32	22.16	23.70	22.54	22.76	22.57	24.20
3GPP Rel 6	HSUPA Subtest-1	23.18	23.42	23.47	24.70	22.80	22.84	22.79	24.20	23.11	23.17	23.20	24.70
3GPP Rel 6	HSUPA Subtest-2	21.16	21.35	21.46	22.70	20.85	20.92	20.77	22.20	21.15	21.19	21.21	22.70
3GPP Rel 6	HSUPA Subtest-3	22.13	22.45	22.46	23.70	21.80	21.81	21.77	23.20	22.15	22.17	22.19	23.70
3GPP Rel 6	HSUPA Subtest-4	21.15	21.42	21.45	22.70	20.80	20.87	20.79	22.20	21.13	21.23	21.19	22.70
3GPP Rel 6	HSUPA Subtest-5	23.20	23.40	23.40	24.70	22.80	22.90	22.80	24.20	23.15	23.17	23.19	24.70



Band	TX Channel	Ant 0			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)
		WCDMA II				WCDMA IV				WCDMA V			
		9262	9400	9538		1312	1413	1513		4132	4182	4233	
	Rx Channel	9662	9800	9938	1537	1638	1738	4357	4407	4458			
	Frequency (MHz)	1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99	AMR 12.2Kbps	23.70	23.90	23.97	25.50	23.88	23.92	23.87	25.50	23.53	23.60	23.47	25.00
3GPP Rel 99	RMC 12.2Kbps	23.75	23.79	23.98	25.50	23.89	24.01	23.97	25.50	23.57	23.62	23.57	25.00
3GPP Rel 6	HSDPA Subtest-1	22.83	22.99	23.08	24.50	23.02	23.07	23.04	24.50	22.66	22.73	22.63	24.00
3GPP Rel 6	HSDPA Subtest-2	22.81	22.96	22.81	24.50	23.03	23.06	22.98	24.50	22.69	22.68	22.65	24.00
3GPP Rel 6	HSDPA Subtest-3	22.33	22.45	22.59	24.00	22.51	22.58	22.51	24.00	22.17	21.87	22.16	23.50
3GPP Rel 6	HSDPA Subtest-4	22.30	22.45	22.60	24.00	22.53	22.55	22.49	24.00	22.15	22.20	22.15	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.83	22.98	23.07	24.50	22.93	23.02	23.04	24.50	22.57	22.65	22.57	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.73	22.91	22.81	24.50	22.95	23.01	22.90	24.50	22.64	22.65	22.61	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.29	22.35	22.51	24.00	22.44	22.48	22.42	24.00	22.16	21.81	22.07	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.26	22.43	22.53	24.00	22.50	22.47	22.40	24.00	22.11	22.15	22.14	23.50
3GPP Rel 6	HSUPA Subtest-1	22.82	23.03	23.07	24.50	23.05	23.11	23.00	24.50	22.62	22.68	22.66	24.00
3GPP Rel 6	HSUPA Subtest-2	20.84	20.98	21.06	22.50	21.01	21.07	21.04	22.50	20.62	20.73	20.69	22.00
3GPP Rel 6	HSUPA Subtest-3	21.83	21.97	22.07	23.50	22.04	22.04	21.97	23.50	21.62	21.69	21.62	23.00
3GPP Rel 6	HSUPA Subtest-4	20.81	20.92	21.07	22.50	21.07	21.08	20.98	22.50	20.64	20.72	20.63	22.00
3GPP Rel 6	HSUPA Subtest-5	22.80	22.90	23.10	24.50	23.00	23.10	23.00	24.50	22.60	22.70	22.60	24.00



Band	Ant 2			Tune-up Limit (dBm)	Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)
	WCDMA II				WCDMA IV				WCDMA V			
TX Channel	9262	9400	9538	1312	1413	1513	4132	4182	4233	9662	9800	9938
Rx Channel	1852.4	1880	1907.6									
Frequency (MHz)	1712.4	1732.6	1752.6	826.4	836.4	846.6						
3GPP Rel 99 AMR 12.2Kbps	24.06	24.31	24.46	24.90	23.74	23.83	23.69	24.60	24.02	24.16	24.10	25.70
3GPP Rel 99 RMC 12.2Kbps	24.13	24.37	24.49	24.90	23.75	23.84	23.76	24.60	24.08	24.17	24.16	25.70
3GPP Rel 6 HSDPA Subtest-1	23.14	23.39	23.47	23.90	22.82	22.88	22.77	23.60	23.09	23.22	23.21	24.70
3GPP Rel 6 HSDPA Subtest-2	23.15	23.39	23.50	23.90	22.80	22.86	22.77	23.60	23.10	23.23	23.26	24.70
3GPP Rel 6 HSDPA Subtest-3	22.66	22.89	22.96	23.40	22.31	22.36	22.27	23.10	22.64	22.73	22.70	24.20
3GPP Rel 6 HSDPA Subtest-4	22.64	22.89	22.98	23.40	22.30	22.40	22.26	23.10	22.61	22.76	22.67	24.20
3GPP Rel 8 DC-HSDPA Subtest-1	23.04	23.36	23.43	23.90	22.82	22.79	22.74	23.60	22.99	23.22	23.16	24.70
3GPP Rel 8 DC-HSDPA Subtest-2	23.15	23.34	23.49	23.90	22.74	22.84	22.71	23.60	23.02	23.17	23.20	24.70
3GPP Rel 8 DC-HSDPA Subtest-3	22.66	22.81	22.91	23.40	22.27	22.30	22.27	23.10	22.58	22.66	22.64	24.20
3GPP Rel 8 DC-HSDPA Subtest-4	22.61	22.85	22.95	23.40	22.23	22.32	22.16	23.10	22.54	22.76	22.57	24.20
3GPP Rel 6 HSUPA Subtest-1	23.18	23.42	23.47	23.90	22.80	22.84	22.79	23.60	23.11	23.17	23.20	24.70
3GPP Rel 6 HSUPA Subtest-2	21.16	21.35	21.46	21.90	20.85	20.92	20.77	21.60	21.15	21.19	21.21	22.70
3GPP Rel 6 HSUPA Subtest-3	22.13	22.45	22.46	22.90	21.80	21.81	21.77	22.60	22.15	22.17	22.19	23.70
3GPP Rel 6 HSUPA Subtest-4	21.15	21.42	21.45	21.90	20.80	20.87	20.79	21.60	21.13	21.23	21.19	22.70
3GPP Rel 6 HSUPA Subtest-5	23.20	23.40	23.40	23.90	22.80	22.90	22.80	23.60	23.15	23.17	23.19	24.70



Band	TX Channel	Rx Channel	Ant 0			Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)		
			WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V				
			9262	9400	9538		1312	1413			1513	4132		4182	4233
			1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6				
3GPP Rel 99	AMR 12.2Kbps		23.70	23.90	23.97	25.50	23.88	23.92	23.87	25.50	23.53	23.60	23.47	25.00	
3GPP Rel 99	RMC 12.2Kbps		23.75	23.79	23.98	25.50	23.89	24.01	23.97	25.50	23.57	23.62	23.57	25.00	
3GPP Rel 6	HSDPA Subtest-1		22.83	22.99	23.08	24.50	23.02	23.07	23.04	24.50	22.66	22.73	22.63	24.00	
3GPP Rel 6	HSDPA Subtest-2		22.81	22.96	22.81	24.50	23.03	23.06	22.98	24.50	22.69	22.68	22.65	24.00	
3GPP Rel 6	HSDPA Subtest-3		22.33	22.45	22.59	24.00	22.51	22.58	22.51	24.00	22.17	21.87	22.16	23.50	
3GPP Rel 6	HSDPA Subtest-4		22.30	22.45	22.60	24.00	22.53	22.55	22.49	24.00	22.15	22.20	22.15	23.50	
3GPP Rel 8	DC-HSDPA Subtest-1		22.83	22.98	23.07	24.50	22.93	23.02	23.04	24.50	22.57	22.65	22.57	24.00	
3GPP Rel 8	DC-HSDPA Subtest-2		22.73	22.91	22.81	24.50	22.95	23.01	22.90	24.50	22.64	22.65	22.61	24.00	
3GPP Rel 8	DC-HSDPA Subtest-3		22.29	22.35	22.51	24.00	22.44	22.48	22.42	24.00	22.16	21.81	22.07	23.50	
3GPP Rel 8	DC-HSDPA Subtest-4		22.26	22.43	22.53	24.00	22.50	22.47	22.40	24.00	22.11	22.15	22.14	23.50	
3GPP Rel 6	HSUPA Subtest-1		22.82	23.03	23.07	24.50	23.05	23.11	23.00	24.50	22.62	22.68	22.66	24.00	
3GPP Rel 6	HSUPA Subtest-2		20.84	20.98	21.06	22.50	21.01	21.07	21.04	22.50	20.62	20.73	20.69	22.00	
3GPP Rel 6	HSUPA Subtest-3		21.83	21.97	22.07	23.50	22.04	22.04	21.97	23.50	21.62	21.69	21.62	23.00	
3GPP Rel 6	HSUPA Subtest-4		20.81	20.92	21.07	22.50	21.07	21.08	20.98	22.50	20.64	20.72	20.63	22.00	
3GPP Rel 6	HSUPA Subtest-5		22.80	22.90	23.10	24.50	23.00	23.10	23.00	24.50	22.60	22.70	22.60	24.00	



Band	Ant 2			Tune-up Limit (dBm)	Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)
	WCDMA II				WCDMA IV				WCDMA V			
TX Channel	9262	9400	9538	1312	1413	1513	4132	4182	4233	9662	9800	9938
Rx Channel	1852.4	1880	1907.6									
Frequency (MHz)	1712.4	1732.6	1752.6	826.4	836.4	846.6						
3GPP Rel 99 AMR 12.2Kbps	24.06	24.31	24.46	24.90	23.74	23.83	23.69	24.40	24.02	24.16	24.10	25.70
3GPP Rel 99 RMC 12.2Kbps	24.13	24.37	24.49	24.90	23.75	23.84	23.76	24.40	24.08	24.17	24.16	25.70
3GPP Rel 6 HSDPA Subtest-1	23.14	23.39	23.47	23.90	22.82	22.88	22.77	23.40	23.09	23.22	23.21	24.70
3GPP Rel 6 HSDPA Subtest-2	23.15	23.39	23.50	23.90	22.80	22.86	22.77	23.40	23.10	23.23	23.26	24.70
3GPP Rel 6 HSDPA Subtest-3	22.66	22.89	22.96	23.40	22.31	22.36	22.27	22.90	22.64	22.73	22.70	24.20
3GPP Rel 6 HSDPA Subtest-4	22.64	22.89	22.98	23.40	22.30	22.40	22.26	22.90	22.61	22.76	22.67	24.20
3GPP Rel 8 DC-HSDPA Subtest-1	23.04	23.36	23.43	23.90	22.82	22.79	22.74	23.40	22.99	23.22	23.16	24.70
3GPP Rel 8 DC-HSDPA Subtest-2	23.15	23.34	23.49	23.90	22.74	22.84	22.71	23.40	23.02	23.17	23.20	24.70
3GPP Rel 8 DC-HSDPA Subtest-3	22.66	22.81	22.91	23.40	22.27	22.30	22.27	22.90	22.58	22.66	22.64	24.20
3GPP Rel 8 DC-HSDPA Subtest-4	22.61	22.85	22.95	23.40	22.23	22.32	22.16	22.90	22.54	22.76	22.57	24.20
3GPP Rel 6 HSUPA Subtest-1	23.18	23.42	23.47	23.90	22.80	22.84	22.79	23.40	23.11	23.17	23.20	24.70
3GPP Rel 6 HSUPA Subtest-2	21.16	21.35	21.46	21.90	20.85	20.92	20.77	21.40	21.15	21.19	21.21	22.70
3GPP Rel 6 HSUPA Subtest-3	22.13	22.45	22.46	22.90	21.80	21.81	21.77	22.40	22.15	22.17	22.19	23.70
3GPP Rel 6 HSUPA Subtest-4	21.15	21.42	21.45	21.90	20.80	20.87	20.79	21.40	21.13	21.23	21.19	22.70
3GPP Rel 6 HSUPA Subtest-5	23.20	23.40	23.40	23.90	22.80	22.90	22.80	23.40	23.15	23.17	23.19	24.70



Band	TX Channel	Rx Channel	Ant 0			Ant 0			Ant 1			Tune-up Limit (dBm)		
			WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			
			9262	9400	9538		1312	1413	1513		4132		4182	4233
			1852.4	1880	1907.6	1712.4	1732.6	1752.6	826.4	836.4	846.6			
3GPP Rel 99	AMR 12.2Kbps		23.70	23.90	23.97	25.50	23.88	23.92	23.87	25.50	23.53	23.60	23.47	25.00
3GPP Rel 99	RMC 12.2Kbps		23.75	23.79	23.98	25.50	23.89	24.01	23.97	25.50	23.57	23.62	23.57	25.00
3GPP Rel 6	HSDPA Subtest-1		22.83	22.99	23.08	24.50	23.02	23.07	23.04	24.50	22.66	22.73	22.63	24.00
3GPP Rel 6	HSDPA Subtest-2		22.81	22.96	22.81	24.50	23.03	23.06	22.98	24.50	22.69	22.68	22.65	24.00
3GPP Rel 6	HSDPA Subtest-3		22.33	22.45	22.59	24.00	22.51	22.58	22.51	24.00	22.17	21.87	22.16	23.50
3GPP Rel 6	HSDPA Subtest-4		22.30	22.45	22.60	24.00	22.53	22.55	22.49	24.00	22.15	22.20	22.15	23.50
3GPP Rel 8	DC-HSDPA Subtest-1		22.83	22.98	23.07	24.50	22.93	23.02	23.04	24.50	22.57	22.65	22.57	24.00
3GPP Rel 8	DC-HSDPA Subtest-2		22.73	22.91	22.81	24.50	22.95	23.01	22.90	24.50	22.64	22.65	22.61	24.00
3GPP Rel 8	DC-HSDPA Subtest-3		22.29	22.35	22.51	24.00	22.44	22.48	22.42	24.00	22.16	21.81	22.07	23.50
3GPP Rel 8	DC-HSDPA Subtest-4		22.26	22.43	22.53	24.00	22.50	22.47	22.40	24.00	22.11	22.15	22.14	23.50
3GPP Rel 6	HSUPA Subtest-1		22.82	23.03	23.07	24.50	23.05	23.11	23.00	24.50	22.62	22.68	22.66	24.00
3GPP Rel 6	HSUPA Subtest-2		20.84	20.98	21.06	22.50	21.01	21.07	21.04	22.50	20.62	20.73	20.69	22.00
3GPP Rel 6	HSUPA Subtest-3		21.83	21.97	22.07	23.50	22.04	22.04	21.97	23.50	21.62	21.69	21.62	23.00
3GPP Rel 6	HSUPA Subtest-4		20.81	20.92	21.07	22.50	21.07	21.08	20.98	22.50	20.64	20.72	20.63	22.00
3GPP Rel 6	HSUPA Subtest-5		22.80	22.90	23.10	24.50	23.00	23.10	23.00	24.50	22.60	22.70	22.60	24.00



Band	Ant 0			Tune-up Limit (dBm)	Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)
	CDMA BC0				CDMA BC1				CDMA BC10			
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31	25.50	1851.25	1880	1908.75	25.50	817.9	820.5	823.1	25.50
RC1 SO55	24.05	24.03	24.14	25.50	24.00	24.24	24.50	25.50	24.03	24.08	23.98	25.50
RC3 SO55	24.09	24.06	24.10	25.50	24.09	24.31	24.54	25.50	24.06	24.07	24.01	25.50
RC3 SO32 (F+SCH)	24.09	24.11	24.14	25.50	24.09	24.33	24.60	25.50	24.06	24.12	24.06	25.50
RC3 SO32 (+SCH)	24.01	24.08	24.07	25.50	24.05	24.27	24.52	25.50	23.96	24.10	24.02	25.50
RTAP 153.6Kbps	24.11	24.12	24.16	25.50	24.12	24.34	24.63	25.50	24.08	24.13	24.07	25.50
RETAP 4096Bits	24.08	24.08	24.09	25.50	24.06	24.26	24.54	25.50	24.06	24.04	24.01	25.50



Band	Ant 1			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)
	CDMA BC0				CDMA BC1				CDMA BC10			
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1			
RC1 SO55	23.55	23.67	23.62	25.50	23.56	23.77	24.03	25.50	23.62	23.66	23.59	25.50
RC3 SO55	23.63	23.74	23.62	25.50	23.59	23.82	24.05	25.50	23.64	23.69	23.68	25.50
RC3 SO32 (F+SCH)	23.62	23.72	23.59	25.50	23.60	23.86	24.06	25.50	23.63	23.68	23.67	25.50
RC3 SO32 (+SCH)	23.59	23.69	23.50	25.50	23.51	23.78	24.00	25.50	23.62	23.61	23.65	25.50
RTAP 153.6Kbps	23.69	23.76	23.67	25.50	23.63	23.92	24.08	25.50	23.68	23.72	23.70	25.50
RETAP 4096Bits	23.64	23.74	23.62	25.50	23.55	23.86	24.04	25.50	23.61	23.66	23.61	25.50



Band	Ant 0			Tune-up Limit (dBm)	Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)
	CDMA BC0				CDMA BC1				CDMA BC10			
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	24.05	24.03	24.14	25.50	24.00	24.24	24.50	25.50	24.03	24.08	23.98	25.50
RC3 SO55	24.09	24.06	24.10	25.50	24.09	24.31	24.54	25.50	24.06	24.07	24.01	25.50
RC3 SO32 (F+SCH)	24.09	24.11	24.14	25.50	24.09	24.33	24.60	25.50	24.06	24.12	24.06	25.50
RC3 SO32 (+SCH)	24.01	24.08	24.07	25.50	24.05	24.27	24.52	25.50	23.96	24.10	24.02	25.50
RTAP 153.6Kbps	24.11	24.12	24.16	25.50	24.12	24.34	24.63	25.50	24.08	24.13	24.07	25.50
RETAP 4096Bits	24.08	24.08	24.09	25.50	24.06	24.26	24.54	25.50	24.06	24.04	24.01	25.50



Band	Ant 1				Ant 0				Ant 1			
	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
Frequency (MHz)	23.40	23.42	23.44	25.40	23.56	23.77	24.03	25.50	23.62	23.66	23.59	25.50
RC1 SO55	23.41	23.48	23.49	25.40	23.59	23.82	24.05	25.50	23.64	23.69	23.68	25.50
RC3 SO55	23.40	23.50	23.48	25.40	23.60	23.86	24.06	25.50	23.63	23.68	23.67	25.50
RC3 SO32 (F+SCH)	23.42	23.49	23.44	25.40	23.51	23.78	24.00	25.50	23.62	23.61	23.65	25.50
RC3 SO32 (+SCH)	23.47	23.54	23.58	25.40	23.63	23.92	24.08	25.50	23.68	23.72	23.70	25.50
RTAP 153.6Kbps	23.43	23.48	23.43	25.40	23.55	23.86	24.04	25.50	23.61	23.66	23.61	25.50
RETAP 4096Bits												



Band	Ant 0				Ant 2				Ant 0			
	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31	25.50	1851.25	1880	1908.75	25.50	817.9	820.5	823.1	25.50
RC1 SO55	24.05	24.03	24.14	25.50	24.00	24.24	24.50	25.50	24.03	24.08	23.98	25.50
RC3 SO55	24.09	24.06	24.10	25.50	24.09	24.31	24.54	25.50	24.06	24.07	24.01	25.50
RC3 SO32 (F+SCH)	24.09	24.11	24.14	25.50	24.09	24.33	24.60	25.50	24.06	24.12	24.06	25.50
RC3 SO32 (+SCH)	24.01	24.08	24.07	25.50	24.05	24.27	24.52	25.50	23.96	24.10	24.02	25.50
RTAP 153.6Kbps	24.11	24.12	24.16	25.50	24.12	24.34	24.63	25.50	24.08	24.13	24.07	25.50
RETAP 4096Bits	24.08	24.08	24.09	25.50	24.06	24.26	24.54	25.50	24.06	24.04	24.01	25.50



Band	Ant 1			Ant 0			Ant 1			Tune-up Limit (dBm)		
	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			
	1013	384	777		25	600	1175		476		580	684
TX Channel	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1			
Frequency (MHz)	22.60	22.59	22.71	24.60	23.56	23.77	24.03	25.50	22.71	22.73	22.74	24.70
RC1 SO55	22.61	22.67	22.72	24.60	23.59	23.82	24.05	25.50	22.72	22.74	22.75	24.70
RC3 SO55	22.62	22.64	22.70	24.60	23.60	23.86	24.06	25.50	22.70	22.72	22.74	24.70
RC3 SO32 (F+SCH)	22.60	22.66	22.66	24.60	23.51	23.78	24.00	25.50	22.72	22.73	22.76	24.70
RC3 SO32 (+SCH)	22.67	22.74	22.76	24.60	23.63	23.92	24.08	25.50	22.75	22.80	22.78	24.70
RTAP 153.6Kbps	22.61	22.63	22.69	24.60	23.55	23.86	24.04	25.50	22.70	22.72	22.74	24.70
RETAP 4096Bits												



Band	Ant 0			Tune-up Limit (dBm)	Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)
	CDMA BC0				CDMA BC1				CDMA BC10			
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31	25.50	1851.25	1880	1908.75	25.10	817.9	820.5	823.1	25.50
RC1 SO55	24.05	24.03	24.14	25.50	23.70	23.94	24.11	25.10	24.03	24.08	23.98	25.50
RC3 SO55	24.09	24.06	24.10	25.50	23.77	23.98	24.20	25.10	24.06	24.07	24.01	25.50
RC3 SO32 (F+SCH)	24.09	24.11	24.14	25.50	23.76	23.98	24.18	25.10	24.06	24.12	24.06	25.50
RC3 SO32 (+SCH)	24.01	24.08	24.07	25.50	23.67	23.92	24.18	25.10	23.96	24.10	24.02	25.50
RTAP 153.6Kbps	24.11	24.12	24.16	25.50	23.83	24.02	24.26	25.10	24.08	24.13	24.07	25.50
RETAP 4096Bits	24.08	24.08	24.09	25.50	23.72	23.90	24.19	25.10	24.06	24.04	24.01	25.50



Band	Ant 1				Ant 0				Ant 1			
	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31	25.50	1851.25	1880	1908.75	25.50	817.9	820.5	823.1	25.50
Frequency (MHz)	23.55	23.67	23.62	25.50	23.56	23.77	24.03	25.50	23.62	23.66	23.59	25.50
RC1 SO55	23.63	23.74	23.62	25.50	23.59	23.82	24.05	25.50	23.64	23.69	23.68	25.50
RC3 SO55	23.62	23.72	23.59	25.50	23.60	23.86	24.06	25.50	23.63	23.68	23.67	25.50
RC3 SO32 (F+SCH)	23.59	23.69	23.50	25.50	23.51	23.78	24.00	25.50	23.62	23.61	23.65	25.50
RC3 SO32 (+SCH)	23.69	23.76	23.67	25.50	23.63	23.92	24.08	25.50	23.68	23.72	23.70	25.50
RTAP 153.6Kbps	23.64	23.74	23.62	25.50	23.55	23.86	24.04	25.50	23.61	23.66	23.61	25.50
RETAP 4096Bits												



Band	Ant 0			Tune-up Limit (dBm)	Ant 2			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)
	CDMA BC0				CDMA BC1				CDMA BC10			
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	24.05	24.03	24.14	25.50	22.94	23.05	23.41	24.30	24.03	24.08	23.98	25.50
RC3 SO55	24.09	24.06	24.10	25.50	22.95	23.15	23.41	24.30	24.06	24.07	24.01	25.50
RC3 SO32 (F+SCH)	24.09	24.11	24.14	25.50	22.94	23.16	23.40	24.30	24.06	24.12	24.06	25.50
RC3 SO32 (+SCH)	24.01	24.08	24.07	25.50	22.92	23.12	23.36	24.30	23.96	24.10	24.02	25.50
RTAP 153.6Kbps	24.11	24.12	24.16	25.50	23.00	23.19	23.45	24.30	24.08	24.13	24.07	25.50
RETAP 4096Bits	24.08	24.08	24.09	25.50	22.94	23.08	23.37	24.30	24.06	24.04	24.01	25.50



Band	Ant 1			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)
	CDMA BC0				CDMA BC1				CDMA BC10			
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31	1851.25	1880	1908.75	817.9	820.5	823.1			
Frequency (MHz)	23.55	23.67	23.62	25.50	23.56	23.77	24.03	25.50	23.62	23.66	23.59	25.50
RC1 SO55	23.63	23.74	23.62	25.50	23.59	23.82	24.05	25.50	23.64	23.69	23.68	25.50
RC3 SO55	23.62	23.72	23.59	25.50	23.60	23.86	24.06	25.50	23.63	23.68	23.67	25.50
RC3 SO32 (F+SCH)	23.59	23.69	23.50	25.50	23.51	23.78	24.00	25.50	23.62	23.61	23.65	25.50
RC3 SO32 (+SCH)	23.69	23.76	23.67	25.50	23.63	23.92	24.08	25.50	23.68	23.72	23.70	25.50
RTAP 153.6Kbps	23.64	23.74	23.62	25.50	23.55	23.86	24.04	25.50	23.61	23.66	23.61	25.50
RETAP 4096Bits												



Band	Ant 0				Ant 2				Ant 0			
	CDMA BC0			Tune-up Limit (dBm)	CDMA BC1			Tune-up Limit (dBm)	CDMA BC10			Tune-up Limit (dBm)
	1013	384	777		25	600	1175		476	580	684	
TX Channel	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
Frequency (MHz)	24.05	24.03	24.14	25.50	22.94	23.05	23.41	24.30	24.03	24.08	23.98	25.50
RC1 SO55	24.09	24.06	24.10	25.50	22.95	23.15	23.41	24.30	24.06	24.07	24.01	25.50
RC3 SO55	24.09	24.11	24.14	25.50	22.94	23.16	23.40	24.30	24.06	24.12	24.06	25.50
RC3 SO32 (F+SCH)	24.01	24.08	24.07	25.50	22.92	23.12	23.36	24.30	23.96	24.10	24.02	25.50
RC3 SO32 (+SCH)	24.11	24.12	24.16	25.50	23.00	23.19	23.45	24.30	24.08	24.13	24.07	25.50
RTAP 153.6Kbps	24.08	24.08	24.09	25.50	22.94	23.08	23.37	24.30	24.06	24.04	24.01	25.50
RETAP 4096Bits												



Band	Ant 1			Tune-up Limit (dBm)	Ant 0			Tune-up Limit (dBm)	Ant 1			Tune-up Limit (dBm)
	CDMA BC0				CDMA BC1				CDMA BC10			
TX Channel	1013	384	777		25	600	1175		476	580	684	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	23.55	23.67	23.62	25.50	23.56	23.77	24.03	25.50	23.62	23.66	23.59	25.50
RC3 SO55	23.63	23.74	23.62	25.50	23.59	23.82	24.05	25.50	23.64	23.69	23.68	25.50
RC3 SO32 (F+SCH)	23.62	23.72	23.59	25.50	23.60	23.86	24.06	25.50	23.63	23.68	23.67	25.50
RC3 SO32 (+SCH)	23.59	23.69	23.50	25.50	23.51	23.78	24.00	25.50	23.62	23.61	23.65	25.50
RTAP 153.6Kbps	23.69	23.76	23.67	25.50	23.63	23.92	24.08	25.50	23.68	23.72	23.70	25.50
RETAP 4096Bits	23.64	23.74	23.62	25.50	23.55	23.86	24.04	25.50	23.61	23.66	23.61	25.50



Band 5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up time (min)		
Channel				2040	2055	2070			
Frequency (MHz)				830	835	844			
10	QPSK	1	0	2448	2454	2453			
10	QPSK	1	26	2448	2452	2450			25.7
10	QPSK	1	49	2458	2448	2443			
10	QPSK	26	0	2358	2344	2342			
10	QPSK	26	12	2369	2365	2362			24.7
10	QPSK	26	25	2363	2367	2362			
10	QPSK	26	0	2367	2364	2360			
10	QPSK	1	0	2388	2389	2384			
10	HQAM	1	25	2390	2393	2391			24.7
10	HQAM	1	49	2395	2390	2381			
10	HQAM	26	0	2257	2252	2259			
10	HQAM	26	12	2258	2254	2257			23.7
10	HQAM	26	25	2264	2263	2256			
10	HQAM	26	0	2268	2262	2258			
10	HQAM	1	0	2284	2278	2270			
10	HQAM	1	26	2252	2257	2252			23.7
10	HQAM	1	49	2282	2281	2278			
10	HQAM	26	0	2162	2166	2164			
10	HQAM	26	12	2171	2169	2167			22.7
10	HQAM	26	25	2186	2170	2157			
10	HQAM	26	0	2170	2166	2162			
10	256QAM	1	0	1940	1933	1932			
10	256QAM	1	26	1944	1945	1944			20.7
10	256QAM	1	49	1932	1948	1937			
10	256QAM	26	0	1941	1941	1943			
10	256QAM	26	12	1944	1939	1938			20.7
10	256QAM	26	25	1934	1938	1938			
10	256QAM	26	0	1944	1937	1938			
Channel				825.5	825.5	825.5			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	2454	2452	2448			
5	QPSK	1	26	2450	2453	2448			25.7
5	QPSK	1	24	2446	2448	2448			
5	QPSK	12	0	2359	2370	2381			
5	QPSK	12	4	2368	2367	2358			24.7
5	QPSK	12	13	2380	2385	2384			
5	QPSK	26	0	2363	2369	2355			
5	HQAM	1	0	2369	2365	2369			
5	HQAM	1	12	2369	2365	2383			24.7
5	HQAM	1	24	2369	2361	2378			
5	HQAM	12	0	2284	2272	2281			
5	HQAM	12	7	2288	2269	2258			23.7
5	HQAM	12	13	2288	2287	2282			
5	HQAM	26	0	2269	2271	2258			
5	HQAM	1	0	2281	2269	2282			
5	HQAM	1	0	2283	2286	2287			23.7
5	HQAM	1	24	2282	2286	2282			
5	HQAM	12	0	2169	2175	2167			
5	HQAM	12	7	2173	2175	2141			22.7
5	HQAM	12	13	2188	2170	2122			
5	HQAM	26	0	2169	2174	2145			
5	256QAM	1	0	1933	1948	1944			
5	256QAM	1	12	1940	1941	1941			20.7
5	256QAM	1	24	1938	1948	1934			
5	256QAM	12	0	1935	1932	1943			
5	256QAM	12	7	1937	1928	1930			20.7
5	256QAM	12	13	1933	1938	1938			
5	256QAM	26	0	1934	1937	1931			
Channel				20415	20525	20635			
Frequency (MHz)				824.7	824.5	824.5			
3	QPSK	1	0	2380	2387	2385			
3	QPSK	1	8	2387	2394	2383			25.7
3	QPSK	8	0	2378	2383	2371			
3	QPSK	8	0	2289	2293	2287			
3	QPSK	8	4	2295	2301	2287			24.7
3	QPSK	8	0	2288	2293	2283			
3	QPSK	16	0	2250	2257	2286			
3	HQAM	1	0	2311	2317	2311			24.7
3	HQAM	1	8	2315	2320	2313			
3	HQAM	1	14	2311	2318	2303			
3	HQAM	8	4	2306	2300	2304			
3	HQAM	8	4	2198	2206	2196			23.7
3	HQAM	8	7	2195	2198	2187			
3	HQAM	16	0	2196	2201	2180			
3	HQAM	1	0	2103	2215	2190			23.7
3	HQAM	1	8	2313	2221	2171			
3	HQAM	1	14	2302	2209	2170			
3	HQAM	8	0	2190	2180	2078			
3	HQAM	8	4	2194	2103	2178			22.7
3	HQAM	8	7	2189	2098	2171			
3	HQAM	16	0	2192	2098	2172			
3	256QAM	1	0	1945	1945	1946			
3	256QAM	1	14	1938	1947	1929			20.7
3	256QAM	8	0	1938	1941	1930			
3	256QAM	8	4	1935	1939	1927			
3	256QAM	8	7	1933	1933	1920			20.7
3	256QAM	16	0	1938	1938	1931			
Channel				20607	20625	20643			
Frequency (MHz)				824.7	824.5	824.5			
1.4	QPSK	1	0	2371	2379	2370			
1.4	QPSK	1	3	2380	2386	2376			25.7
1.4	QPSK	1	5	2370	2380	2371			
1.4	QPSK	3	0	2389	2380	2375			
1.4	QPSK	3	1	2383	2380	2380			
1.4	QPSK	3	3	2378	2381	2372			24.7
1.4	QPSK	6	0	2283	2291	2277			
1.4	HQAM	1	0	2305	2311	2307			
1.4	HQAM	1	5	2314	2321	2312			24.7
1.4	HQAM	1	5	2307	2312	2300			
1.4	HQAM	3	0	2289	2289	2282			
1.4	HQAM	3	1	2293	2300	2286			
1.4	HQAM	3	1	2283	2291	2278			
1.4	HQAM	6	0	2191	2199	2186			23.7
1.4	HQAM	1	0	2198	2204	2172			
1.4	HQAM	1	3	2210	2215	2178			
1.4	HQAM	1	6	2200	2204	2172			23.7
1.4	HQAM	1	6	2199	2197	2173			
1.4	HQAM	3	1	2194	2200	2173			
1.4	HQAM	3	1	2189	2193	2173			22.7
1.4	HQAM	6	0	2078	2084	2071			
1.4	256QAM	1	0	1940	1948	1947			
1.4	256QAM	1	3	1937	1941	1941			20.7
1.4	256QAM	1	5	1947	1947	1927			
1.4	256QAM	3	0	1931	1939	1938			
1.4	256QAM	3	0	1944	1938	1938			
1.4	256QAM	3	1	1927	1938	1923			
1.4	256QAM	6	0	1938	1938	1930			20.7



Band 7_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel				2560	2608	2656			
Frequency (MHz)									
20	QPSK	1	0	2460	2484	2484			
20	QPSK	1	49	2467	2475	2470			25.7
20	QPSK	1	99	2471	2479	2473			
20	QPSK	61	0	2378	2378	2375			
20	QPSK	50	24	2388	2384	2380			24.7
20	QPSK	50	50	2389	2394	2389			
20	QPSK	100	0	2388	2384	2378			
20	HQAM	1	0	2388	2401	2388			24.7
20	HQAM	1	49	2405	2407	2406			
20	HQAM	1	99	2405	2415	2403			
20	HQAM	50	0	2277	2281	2277			
20	HQAM	50	24	2286	2286	2283			23.7
20	HQAM	50	50	2293	2298	2292			
20	HQAM	100	0	2288	2283	2278			
20	HQAM	1	0	2281	2285	2281			
20	HQAM	1	49	2293	2295	2277			23.7
20	HQAM	1	99	2300	2306	2278			
20	HQAM	50	0	2188	2184	2178			
20	HQAM	50	24	2193	2189	2177			22.7
20	HQAM	50	50	2193	2196	2187			
20	HQAM	100	0	2192	2184	2182			
20	256QAM	1	0	2022	2038	1988			20.7
20	256QAM	1	49	2033	2038	2037			
20	256QAM	1	99	2034	2038	2011			
20	256QAM	50	0	2003	2001	1994			
20	256QAM	50	24	2012	2007	1995			
20	256QAM	50	50	2012	2000	2003			20.7
20	256QAM	100	0	2013	1999	1993			
Channel				2507.5	2510	2535			Turn-up (dBm)
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	2454	2459	2458			
15	QPSK	1	49	2458	2472	2484			25.7
15	QPSK	1	74	2483	2470	2463			
15	QPSK	39	0	2372	2376	2385			24.7
15	QPSK	39	20	2378	2384	2371			
15	QPSK	39	39	2384	2385	2385			
15	QPSK	75	0	2378	2379	2374			
15	HQAM	1	0	2386	2407	2383			24.7
15	HQAM	1	74	2386	2379	2374			
15	HQAM	39	0	2279	2279	2274			
15	HQAM	39	20	2283	2279	2282			23.7
15	HQAM	39	39	2286	2289	2282			
15	HQAM	75	0	2278	2278	2272			
15	HQAM	1	0	2277	2284	2285			
15	HQAM	1	74	2285	2286	2288			23.7
15	HQAM	1	74	2285	2304	2289			
15	HQAM	39	0	2180	2183	2175			
15	HQAM	39	20	2190	2188	2177			22.7
15	HQAM	39	39	2190	2191	2185			
15	HQAM	75	0	2184	2179	2176			
15	256QAM	1	0	2000	2003	1988			20.7
15	256QAM	1	37	2030	2005	2005			
15	256QAM	39	74	2011	2011	2005			
15	256QAM	39	0	1955	1955	1958			
15	256QAM	39	20	2007	1999	1985			20.7
15	256QAM	39	39	2007	1996	2000			
15	256QAM	75	0	2008	1994	1985			
Channel				2000	2100	2160			Turn-up (dBm)
Frequency (MHz)				2000	2100	2160			
10	QPSK	1	0	2458	2464	2457			
10	QPSK	1	25	2458	2470	2482			25.7
10	QPSK	1	49	2462	2473	2471			
10	QPSK	25	0	2373	2386	2375			24.7
10	QPSK	25	12	2381	2374	2380			
10	QPSK	25	25	2387	2388	2380			
10	QPSK	50	0	2376	2379	2375			
10	HQAM	1	0	2384	2401	2384			24.7
10	HQAM	1	25	2388	2404	2399			
10	HQAM	1	49	2405	2407	2395			
10	HQAM	25	0	2276	2286	2275			23.7
10	HQAM	25	12	2287	2276	2282			
10	HQAM	25	25	2285	2296	2287			
10	HQAM	50	0	2284	2280	2280			
10	HQAM	1	0	2274	2277	2284			23.7
10	HQAM	1	25	2283	2295	2274			
10	HQAM	1	49	2295	2299	2292			
10	HQAM	25	0	2178	2174	2178			22.7
10	HQAM	25	12	2185	2186	2170			
10	HQAM	25	25	2193	2189	2186			
10	HQAM	50	0	2184	2178	2172			
10	256QAM	1	0	2017	2008	2007			20.7
10	256QAM	1	25	2023	2007	2001			
10	256QAM	1	49	2014	2010	2004			
10	256QAM	25	0	1993	2001	1994			
10	256QAM	25	12	2008	2000	1995			20.7
10	256QAM	25	25	2010	1990	1997			
10	256QAM	50	0	2003	1999	1992			
Channel				2075	2100	2165			Turn-up (dBm)
Frequency (MHz)				2075	2100	2165			
5	QPSK	1	0	2454	2452	2451			
5	QPSK	1	12	2459	2465	2467			25.7
5	QPSK	1	24	2468	2472	2469			
5	QPSK	12	0	2370	2370	2371			24.7
5	QPSK	12	7	2381	2374	2370			
5	QPSK	12	15	2383	2383	2380			
5	QPSK	24	0	2378	2384	2370			
5	HQAM	1	0	2394	2398	2397			24.7
5	HQAM	1	12	2397	2405	2405			
5	HQAM	1	24	2400	2411	2403			
5	HQAM	12	0	2288	2271	2271			23.7
5	HQAM	12	11	2281	2286	2281			
5	HQAM	12	13	2289	2293	2284			
5	HQAM	25	0	2286	2277	2273			
5	HQAM	1	0	2278	2277	2283			23.7
5	HQAM	1	12	2284	2289	2273			
5	HQAM	11	24	2297	2305	2278			22.7
5	HQAM	12	0	2178	2182	2174			
5	HQAM	12	7	2187	2186	2171			
5	HQAM	12	11	2184	2188	2187			
5	HQAM	25	0	2192	2175	2176			
5	256QAM	1	0	2016	2002	1993			20.7
5	256QAM	1	12	2025	2000	2005			
5	256QAM	1	24	2018	2011	2003			
5	256QAM	12	0	2000	1998	1991			20.7
5	256QAM	12	1	2007	2007	1985			
5	256QAM	12	13	2009	1998	1999			
5	256QAM	25	0	2006	1992	1983			



Band 12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2464	2463	2469	25.7
10	QPSK	1	26	2459	2460	2462	
10	QPSK	1	49	2467	2463	2460	24.7
10	QPSK	25	0	2372	2374	2371	
10	QPSK	25	12	2378	2373	2372	24.7
10	QPSK	25	25	2377	2379	2380	
10	QPSK	50	0	2378	2371	2373	24.7
10	QPSK	1	0	2386	2385	2387	
10	HQAM	1	25	2397	2399	2401	23.7
10	HQAM	1	49	2408	2401	2404	
10	HQAM	25	0	2271	2273	2274	23.7
10	HQAM	25	12	2276	2273	2275	
10	HQAM	25	25	2272	2280	2277	23.7
10	HQAM	50	0	2275	2272	2274	
10	HQAM	1	0	2281	2280	2283	23.7
10	HQAM	1	26	2288	2282	2286	
10	HQAM	1	49	2298	2291	2294	22.7
10	HQAM	25	0	2178	2174	2176	
10	HQAM	25	12	2184	2177	2178	22.7
10	HQAM	25	25	2179	2181	2180	
10	HQAM	50	0	2182	2177	2177	20.7
10	HQAM	1	0	1942	1954	1950	
10	SSBQAM	1	25	1958	1957	1958	20.7
10	SSBQAM	1	49	1952	1948	1944	
10	SSBQAM	25	0	1952	1954	1955	20.7
10	SSBQAM	25	12	1946	1948	1945	
10	SSBQAM	25	25	1942	1947	1955	20.7
10	SSBQAM	50	0	1953	1951	1951	
Channel							
Frequency (MHz)							
5	QPSK	1	0	2465	2466	2460	25.7
5	QPSK	1	24	2465	2460	2460	
5	QPSK	1	24	2484	2465	2464	24.7
5	QPSK	12	0	2375	2373	2373	
5	QPSK	12	12	2378	2380	2370	24.7
5	QPSK	12	12	2370	2374	2372	
5	QPSK	25	0	2373	2371	2371	24.7
5	HQAM	1	0	2398	2399	2397	
5	HQAM	1	12	2401	2401	2399	23.7
5	HQAM	1	24	2402	2401	2397	
5	HQAM	12	0	2283	2278	2278	23.7
5	HQAM	12	7	2278	2280	2274	
5	HQAM	12	12	2275	2275	2275	23.7
5	HQAM	25	0	2278	2271	2270	
5	HQAM	1	0	2298	2295	2288	23.7
5	HQAM	1	24	2292	2293	2294	
5	HQAM	1	24	2296	2298	2292	22.7
5	HQAM	12	0	2188	2182	2182	
5	HQAM	12	7	2183	2183	2178	22.7
5	HQAM	12	12	2178	2180	2177	
5	HQAM	25	0	2178	2174	2174	20.7
5	SSBQAM	1	0	1938	1948	1948	
5	SSBQAM	1	12	1939	1949	1952	20.7
5	SSBQAM	1	24	1942	1948	1948	
5	SSBQAM	12	7	1951	1948	1942	20.7
5	SSBQAM	12	12	1938	1937	1954	
5	SSBQAM	25	0	1953	1949	1948	20.7
5	SSBQAM	1	0	2305	2305	2305	
Channel							
Frequency (MHz)							
3	QPSK	1	0	2392	2388	2386	25.7
3	QPSK	1	8	2392	2395	2393	
3	QPSK	1	16	2395	2390	2394	24.7
3	QPSK	8	0	2299	2297	2294	
3	QPSK	8	4	2298	2300	2297	24.7
3	QPSK	16	0	2294	2297	2292	
3	QPSK	16	0	2296	2292	2292	24.7
3	HQAM	1	0	2308	2319	2322	
3	HQAM	1	8	2311	2311	2329	23.7
3	HQAM	1	16	2318	2322	2319	
3	HQAM	8	4	2298	2301	2300	23.7
3	HQAM	8	4	2299	2298	2294	
3	HQAM	8	7	2290	2298	2198	23.7
3	HQAM	16	0	2291	2295	2304	
3	HQAM	1	0	2221	2214	2214	22.7
3	HQAM	1	8	2224	2223	2220	
3	HQAM	1	16	2215	2218	2212	22.7
3	HQAM	8	0	2183	2183	2086	
3	HQAM	8	4	2188	2187	2184	22.7
3	HQAM	8	7	2099	2102	2099	
3	HQAM	16	0	2100	2095	2093	20.7
3	SSBQAM	1	0	1942	1948	1943	
3	SSBQAM	1	8	1958	1950	1948	20.7
3	SSBQAM	1	16	1960	1967	1958	
3	SSBQAM	8	0	1948	1944	1945	20.7
3	SSBQAM	8	4	1953	1948	1939	
3	SSBQAM	8	7	1945	1937	1953	20.7
3	SSBQAM	16	0	1951	1944	1942	
Channel							
Frequency (MHz)							
1.4	QPSK	1	0	2373	2374	2373	25.7
1.4	QPSK	1	3	2378	2380	2380	
1.4	QPSK	1	5	2372	2373	2371	24.7
1.4	QPSK	3	1	2384	2378	2379	
1.4	QPSK	3	3	2374	2378	2374	24.7
1.4	QPSK	6	0	2283	2284	2281	
1.4	HQAM	1	0	2308	2307	2309	23.7
1.4	HQAM	1	5	2312	2314	2310	
1.4	HQAM	1	5	2308	2305	2303	23.7
1.4	HQAM	3	0	2289	2284	2288	
1.4	HQAM	3	1	2284	2286	2280	23.7
1.4	HQAM	3	1	2284	2283	2282	
1.4	HQAM	6	0	2188	2190	2186	23.7
1.4	HQAM	3	0	2201	2198	2199	
1.4	HQAM	1	3	2286	2289	2283	23.7
1.4	HQAM	1	6	2283	2282	2197	
1.4	HQAM	3	0	2198	2194	2198	22.7
1.4	HQAM	3	1	2202	2197	2200	
1.4	HQAM	3	1	2194	2195	2195	22.7
1.4	HQAM	6	0	2099	2098	2093	
1.4	SSBQAM	1	0	1938	1948	1942	20.7
1.4	SSBQAM	1	3	1957	1954	1956	
1.4	SSBQAM	1	5	1958	1957	1958	20.7
1.4	SSBQAM	3	0	1942	1945	1951	
1.4	SSBQAM	3	0	1958	1941	1938	20.7
1.4	SSBQAM	3	1	1939	1944	1952	
1.4	SSBQAM	6	0	1947	1948	1950	20.7



Band 13_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Time-up limit (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.98			25.2
10	QPSK	1	25	24.02			
10	QPSK	1	49	24.10			
10	QPSK	25	0	23.16			24.2
10	QPSK	25	12	23.17			
10	QPSK	25	25	23.19			
10	QPSK	50	0	23.18			24.2
10	HQAM	1	0	23.38			
10	HQAM	1	25	23.37			
10	HQAM	1	49	23.40			23.2
10	HQAM	25	0	22.17			
10	HQAM	25	12	22.20			
10	HQAM	25	25	22.22			23.2
10	HQAM	50	0	22.19			
10	HQAM	1	0	22.21			
10	HQAM	1	25	22.32			22.2
10	HQAM	1	49	22.34			
10	HQAM	25	0	21.17			
10	HQAM	25	12	21.24			22.2
10	HQAM	25	25	21.23			
10	HQAM	50	0	21.23			
10	256QAM	1	0	18.81			20.2
10	256QAM	1	25	18.97			
10	256QAM	1	49	18.91			
10	256QAM	25	0	18.78			20.2
10	256QAM	25	12	18.86			
10	256QAM	25	25	18.89			
10	256QAM	50	0	18.84			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.93	23.98	23.74	25.2
5	QPSK	1	24	24.04	24.07	23.77	
5	QPSK	1	24	24.07	24.08	23.83	
5	QPSK	12	0	23.10	23.13	22.85	24.2
5	QPSK	12	12	23.18	23.15	22.93	
5	QPSK	12	12	23.19	23.21	22.89	
5	QPSK	25	0	23.18	23.14	22.90	24.2
5	HQAM	1	0	23.31	23.29	23.01	
5	HQAM	1	12	23.29	23.33	23.04	
5	HQAM	1	24	23.07	23.08	23.04	23.2
5	HQAM	12	0	22.20	22.17	21.92	
5	HQAM	12	7	22.20	22.17	21.95	
5	HQAM	12	13	22.21	22.22	21.94	23.2
5	HQAM	25	0	22.23	22.16	21.92	
5	HQAM	1	0	22.19	22.28	21.94	
5	HQAM	1	24	22.25	22.20	22.01	23.2
5	HQAM	1	24	22.29	22.32	22.02	
5	HQAM	12	0	21.22	21.23	20.96	
5	HQAM	12	7	21.28	21.21	20.98	22.2
5	HQAM	12	13	21.25	21.26	20.95	
5	HQAM	25	0	21.06	21.17	20.96	
5	256QAM	1	0	18.55	18.57	18.59	20.2
5	256QAM	1	12	18.93	18.96	18.94	
5	256QAM	1	24	18.96	18.99	18.96	
5	256QAM	12	7	18.83	18.78	18.79	20.2
5	256QAM	12	13	18.82	18.84	18.79	
5	256QAM	25	0	18.77	18.77	18.74	



Band 14_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				700	700	700
Frequency (MHz)						
10	QPSK	1	0	24.56		
10	QPSK	1	25	24.53		
10	QPSK	1	49	24.48		25.7
10	QPSK	25	0	23.55		
10	QPSK	25	12	23.57		24.7
10	QPSK	25	25	23.63		
10	QPSK	50	0	23.55		
10	HQAM	1	0	23.95		24.7
10	HQAM	1	25	23.91		
10	HQAM	1	49	23.86		
10	HQAM	25	0	22.54		
10	HQAM	25	12	22.57		23.7
10	HQAM	25	25	22.64		
10	HQAM	50	0	22.55		
10	HQAM	1	0	22.79		23.7
10	HQAM	1	25	22.84		
10	HQAM	1	49	22.79		
10	HQAM	25	0	21.58		
10	HQAM	25	12	21.61		22.7
10	HQAM	25	25	21.63		
10	HQAM	50	0	21.59		
10	256QAM	1	0	19.53		20.7
10	256QAM	1	25	19.57		
10	256QAM	1	49	19.55		
10	256QAM	25	0	19.29		
10	256QAM	25	12	19.34		20.7
10	256QAM	25	25	19.33		
10	256QAM	50	0	19.25		
Channel				2330.5	2330.5	2330.5
Frequency (MHz)						
5	QPSK	1	0	24.48	24.48	24.45
5	QPSK	1	12	24.56	24.53	24.50
5	QPSK	1	24	24.55	24.55	24.48
5	QPSK	12	0	23.62	23.54	23.51
5	QPSK	12	12	23.68	23.68	23.60
5	QPSK	12	12	23.81	23.80	23.56
5	QPSK	25	0	23.59	23.54	23.52
5	HQAM	1	0	23.92	23.92	23.79
5	HQAM	1	12	23.90	23.92	23.86
5	HQAM	1	24	23.88	23.88	23.79
5	HQAM	12	0	22.84	22.81	22.83
5	HQAM	12	7	22.88	22.89	22.88
5	HQAM	12	13	22.85	22.83	22.84
5	HQAM	25	0	22.62	22.56	22.58
5	HQAM	1	0	22.81	22.77	22.77
5	HQAM	1	12	22.83	22.85	22.84
5	HQAM	1	24	22.82	22.82	22.80
5	HQAM	12	0	21.71	21.60	21.58
5	HQAM	12	7	21.69	21.70	21.68
5	HQAM	12	13	21.63	21.66	21.61
5	HQAM	25	0	21.60	21.61	21.54
5	256QAM	1	0	19.47	19.49	19.53
5	256QAM	1	12	19.31	19.33	19.28
5	256QAM	1	24	19.46	19.52	19.42
5	256QAM	12	0	19.19	19.27	19.27
5	256QAM	12	7	19.28	19.28	19.34
5	256QAM	12	13	19.33	19.30	19.30
5	256QAM	25	0	19.21	19.19	19.15



Band 17_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (min)
Channel							
Frequency (MHz)				706	710	711	
10	QPSK	1	0	2456	2456	2455	25.7
10	QPSK	1	24	2458	2464	2460	
10	QPSK	1	48	2462	2466	2462	
10	QPSK	25	0	2384	2386	2385	24.7
10	QPSK	25	12	2378	2373	2371	
10	QPSK	25	24	2380	2379	2380	
10	HQAM	1	0	2390	2392	2391	24.7
10	HQAM	1	24	2401	2401	2400	
10	HQAM	1	48	2401	2402	2402	
10	HQAM	25	0	2265	2264	2264	23.7
10	HQAM	25	12	2278	2271	2271	
10	HQAM	25	24	2277	2281	2276	
10	HQAM	50	0	2269	2270	2267	23.7
10	HQAM	50	0	2286	2276	2274	
10	HQAM	1	24	2252	2257	2250	
10	HQAM	1	48	2252	2258	2263	22.7
10	HQAM	25	0	2167	2167	2167	
10	HQAM	25	12	2184	2178	2178	
10	HQAM	25	24	2180	2182	2182	20.7
10	HQAM	50	0	2170	2171	2171	
10	256QAM	1	0	1944	1937	1933	
10	256QAM	1	24	1950	1948	1951	20.7
10	256QAM	1	48	1958	1950	1958	
10	256QAM	25	0	1946	1944	1946	
10	256QAM	25	12	1956	1952	1943	20.7
10	256QAM	25	24	1958	1954	1952	
10	256QAM	50	0	1948	1948	1948	
Channel							
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	2457	2456	2455	25.7
5	QPSK	1	12	2460	2461	2463	
5	QPSK	1	24	2464	2461	2464	
5	QPSK	12	0	2387	2389	2386	24.7
5	QPSK	12	6	2378	2374	2380	
5	QPSK	12	12	2377	2376	2373	
5	HQAM	1	0	2376	2376	2365	24.7
5	HQAM	1	0	2391	2393	2391	
5	HQAM	1	12	2397	2403	2398	
5	HQAM	1	24	2408	2404	2401	23.7
5	HQAM	12	0	2270	2272	2272	
5	HQAM	12	6	2278	2274	2273	
5	HQAM	12	12	2278	2277	2274	23.7
5	HQAM	25	0	2274	2275	2269	
5	HQAM	1	0	2269	2267	2268	
5	HQAM	1	12	2266	2266	2260	22.7
5	HQAM	1	24	2264	2260	2263	
5	HQAM	12	0	2173	2177	2178	
5	HQAM	12	6	2181	2179	2175	22.7
5	HQAM	12	12	2179	2185	2175	
5	HQAM	25	0	2179	2174	2170	
5	256QAM	1	0	1941	1929	1924	20.7
5	256QAM	1	12	1949	1946	1944	
5	256QAM	1	24	1946	1950	1950	
5	256QAM	12	0	1939	1934	1941	20.7
5	256QAM	12	6	1958	1947	1940	
5	256QAM	12	12	1953	1954	1952	
5	256QAM	25	0	1937	1941	1945	



Band 26_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)			
Channel				831.5	831.5	831.5				
Frequency (MHz)										
15	QPSK	1	0	2458	2449	2440	25.7			
15	QPSK	39	0	2449	2448	2446				
15	QPSK	1	74	2449	2448	2438	25.7			
15	QPSK	39	0	2384	2382	2381				
15	QPSK	39	20	2389	2387	2357	24.7			
15	QPSK	39	39	2354	2353	2359				
15	QPSK	75	0	2387	2386	2358	24.7			
15	HQAM	1	0	2388	2377	2380				
15	HQAM	1	37	2379	2376	2376	24.7			
15	HQAM	74	0	2377	2371	2386				
15	HQAM	39	0	2263	2252	2259	23.7			
15	HQAM	39	20	2265	2265	2255				
15	HQAM	39	39	2265	2262	2266	23.7			
15	HQAM	75	0	2268	2265	2281				
15	HQAM	1	0	2275	2287	2283	23.7			
15	HQAM	1	37	2271	2274	2258				
15	HQAM	1	74	2272	2268	2293	22.7			
15	HQAM	39	0	2184	2184	2184				
15	HQAM	39	20	2188	2188	2181	22.7			
15	HQAM	39	39	2187	2184	2183				
15	HQAM	75	0	2170	2167	2159	20.7			
15	256QAM	1	0	1949	1943	1944				
15	256QAM	1	37	1845	1837	1846	20.7			
15	256QAM	74	0	1837	1836	1836				
15	256QAM	39	0	1939	1940	1938	20.7			
15	256QAM	39	20	1941	1941	1938				
15	256QAM	39	39	1931	1932	1931	20.7			
15	256QAM	75	0	1941	1943	1934				
Channel				831.5	831.5	831.5				
Frequency (MHz)				839	831.5	841				
10	QPSK	1	0	2454	2452	2449	25.7			
10	QPSK	26	0	2453	2452	2449				
10	QPSK	1	49	2453	2454	2442	24.7			
10	QPSK	26	0	2368	2357	2357				
10	QPSK	26	0	2368	2359	2358	24.7			
10	QPSK	26	26	2383	2389	2387				
10	QPSK	50	0	2365	2365	2354	24.7			
10	HQAM	1	0	2369	2387	2388				
10	HQAM	1	26	2369	2390	2388	23.7			
10	HQAM	1	49	2365	2364	2375				
10	HQAM	25	0	2270	2259	2256	23.7			
10	HQAM	25	10	2269	2259	2254				
10	HQAM	26	0	2265	2265	2256	23.7			
10	HQAM	50	0	2265	2264	2258				
10	HQAM	1	0	2292	2278	2274	23.7			
10	HQAM	1	26	2286	2286	2278				
10	HQAM	1	49	2281	2280	2268	22.7			
10	HQAM	25	0	2181	2180	2182				
10	HQAM	26	0	2170	2183	2182	22.7			
10	HQAM	26	26	2181	2181	2134				
10	HQAM	50	0	2153	2182	2155	20.7			
10	256QAM	1	0	1942	1942	1941				
10	256QAM	1	26	1943	1928	1943	20.7			
10	256QAM	26	0	1941	1941	1938				
10	256QAM	26	26	1932	1934	1937	20.7			
10	256QAM	25	10	1938	1942	1938				
10	256QAM	26	26	1928	1935	1934	20.7			
10	256QAM	50	0	1933	1933	1930				
Channel				2675	2666	2705				
Frequency (MHz)				831.5	831.5	831.5				
5	QPSK	1	0	2450	2450	2455	25.7			
5	QPSK	1	10	2453	2455	2454				
5	QPSK	1	24	2450	2456	2442	24.7			
5	QPSK	12	0	2372	2381	2381				
5	QPSK	12	7	2369	2354	2358	24.7			
5	QPSK	12	14	2364	2360	2358				
5	QPSK	26	0	2368	2362	2357	24.7			
5	HQAM	1	0	2401	2391	2389				
5	HQAM	1	10	2398	2396	2378	23.7			
5	HQAM	1	24	2386	2393	2374				
5	HQAM	12	1	2278	2261	2264	23.7			
5	HQAM	12	7	2273	2268	2259				
5	HQAM	12	14	2266	2261	2252	23.7			
5	HQAM	26	0	2266	2262	2254				
5	HQAM	1	0	2258	2284	2281	22.7			
5	HQAM	1	10	2272	2284	2284				
5	HQAM	1	24	2269	2286	2271	22.7			
5	HQAM	12	0	2155	2187	2158				
5	HQAM	12	7	2182	2171	2121	22.7			
5	HQAM	12	14	2168	2164	2094				
5	HQAM	26	0	2152	2188	2122	20.7			
5	256QAM	1	0	1941	1941	1938				
5	256QAM	1	24	1942	1938	1944	20.7			
5	256QAM	24	0	1940	1940	1931				
5	256QAM	12	7	1940	1940	1937	20.7			
5	256QAM	12	14	1928	1928	1930				
5	256QAM	26	0	1941	1933	1928	20.7			
5	256QAM	26	26	1933	1933	1925				
Channel				2675	2666	2705				
Frequency (MHz)				814.7	831.5	846.3				
1.4	QPSK	1	0	2447	2443	2446	25.7			
1.4	QPSK	1	0	2451	2448	2445				
1.4	QPSK	1	0	2449	2450	2432	24.7			
1.4	QPSK	3	0	2446	2448	2447				
1.4	QPSK	1	0	2448	2450	2453	24.7			
1.4	QPSK	3	3	2446	2448	2432				
1.4	QPSK	8	0	2372	2354	2356	24.7			
1.4	HQAM	1	0	2365	2364	2348				
1.4	HQAM	1	3	2360	2359	2341	24.7			
1.4	HQAM	3	0	2358	2360	2354				
1.4	HQAM	3	0	2354	2355	2350	23.7			
1.4	HQAM	3	1	2387	2388	2377				
1.4	HQAM	3	0	2377	2350	2360	23.7			
1.4	HQAM	6	0	2277	2281	2280				
1.4	HQAM	1	0	2286	2284	2259	23.7			
1.4	HQAM	3	0	2265	2261	2243				
1.4	HQAM	1	6	2269	2259	2254	23.7			
1.4	HQAM	3	0	2261	2275	2270				
1.4	HQAM	6	0	2262	2260	2224	23.7			
1.4	HQAM	3	3	2260	2286	2269				
1.4	HQAM	6	0	2147	2167	2156	20.7			
1.4	256QAM	1	0	1944	1937	1936				
1.4	256QAM	1	3	1938	1934	1942	20.7			
1.4	256QAM	3	0	1935	1940	1938				
1.4	256QAM	3	0	1936	1937	1931	20.7			
1.4	256QAM	3	1	1939	1938	1934				
1.4	256QAM	3	0	1931	1927	1928	20.7			
1.4	256QAM	6	0	1933	1933	1936				



Band 30_Ant 2						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2315		
10	QPSK	1	25	2309		
10	QPSK	1	49	2302		
10	QPSK	25	0	2208		
10	QPSK	25	12	2216		
10	QPSK	25	25	2218		
10	QPSK	50	0	2214		
10	HQAM	1	0	2244		
10	HQAM	1	25	2248		
10	HQAM	1	49	2241		
10	HQAM	25	0	2108		
10	HQAM	25	12	2114		
10	HQAM	25	25	2117		
10	HQAM	50	0	2114		
10	HQAM	1	0	2120		
10	HQAM	1	25	2120		
10	HQAM	1	49	2127		
10	HQAM	25	0	2012		
10	HQAM	25	12	2020		
10	HQAM	25	25	2020		
10	HQAM	50	0	2018		
10	256QAM	1	0	1880		
10	256QAM	1	25	1884		
10	256QAM	1	49	1881		
10	256QAM	25	0	1878		
10	256QAM	25	12	1873		
10	256QAM	25	25	1875		
10	256QAM	50	0	1877		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2307.5	2310	2312.5
5	QPSK	1	0	2297	2301	2305
5	QPSK	1	12	2314	2314	2312
5	QPSK	1	24	2313	2313	2306
5	QPSK	12	0	2210	2212	2216
5	QPSK	12	12	2223	2217	2221
5	QPSK	12	12	2222	2217	2219
5	QPSK	25	0	2218	2214	2219
5	HQAM	1	0	2232	2234	2230
5	HQAM	1	12	2242	2240	2238
5	HQAM	1	24	2244	2240	2236
5	HQAM	12	0	2115	2114	2119
5	HQAM	12	7	2124	2120	2122
5	HQAM	12	13	2125	2116	2122
5	HQAM	25	0	2121	2116	2120
5	HQAM	1	0	2128	2132	2134
5	HQAM	1	12	2132	2136	2133
5	HQAM	1	24	2138	2138	2131
5	HQAM	12	0	2017	2021	2020
5	HQAM	12	7	2020	2023	2026
5	HQAM	12	13	2030	2025	2024
5	HQAM	25	0	2025	2017	2020
5	256QAM	1	0	1875	1876	1877
5	256QAM	1	12	1887	1890	1885
5	256QAM	1	24	1886	1885	1887
5	256QAM	12	0	1870	1869	1869
5	256QAM	12	7	1863	1872	1864
5	256QAM	12	13	1865	1875	1871
5	256QAM	25	0	1875	1872	1870



Band 71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up (dB)		
Channel				693	693	693			
Frequency (MHz)				693	693	693			
20	QPSK	1	0	2466	2467	2468	25.7		
20	QPSK	1	49	2458	2453	2451	25.7		
20	QPSK	1	99	2451	2453	2450	25.7		
20	QPSK	61	0	2366	2366	2368	24.7		
20	QPSK	50	24	2371	2361	2361	24.7		
20	QPSK	50	50	2370	2364	2363	24.7		
20	QPSK	100	0	2370	2360	2358	24.7		
20	HQAM	1	0	2402	2392	2382	24.7		
20	HQAM	1	49	2392	2389	2385	24.7		
20	HQAM	1	99	2389	2386	2385	24.7		
20	HQAM	50	0	2270	2268	2267	23.7		
20	HQAM	50	24	2273	2265	2261	23.7		
20	HQAM	50	50	2270	2268	2264	23.7		
20	HQAM	100	0	2270	2262	2259	23.7		
20	HQAM	1	0	2284	2275	2274	23.7		
20	HQAM	1	49	2281	2269	2271	23.7		
20	HQAM	1	99	2278	2277	2278	23.7		
20	HQAM	50	0	2158	2167	2161	22.7		
20	HQAM	50	24	2173	2165	2165	22.7		
20	HQAM	50	50	2171	2166	2165	22.7		
20	HQAM	100	0	2174	2162	2162	22.7		
20	SSBQAM	1	0	1958	1950	1937	20.7		
20	SSBQAM	1	49	1941	1936	1939	20.7		
20	SSBQAM	1	99	1945	1935	1935	20.7		
20	SSBQAM	50	0	1941	1947	1944	20.7		
20	SSBQAM	50	24	1945	1944	1938	20.7		
20	SSBQAM	50	50	1940	1938	1939	20.7		
20	SSBQAM	100	0	1943	1943	1939	20.7		
Channel				133109	133109	133109	Turn-up (dB)		
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	2464	2457	2453	25.7		
15	QPSK	1	49	2456	2453	2452	25.7		
15	QPSK	1	74	2453	2458	2453	25.7		
15	QPSK	39	0	2388	2364	2360	24.7		
15	QPSK	39	26	2371	2368	2369	24.7		
15	QPSK	39	39	2384	2383	2381	24.7		
15	QPSK	75	0	2372	2369	2366	24.7		
15	HQAM	1	0	2401	2393	2394	24.7		
15	HQAM	1	39	2384	2390	2388	24.7		
15	HQAM	1	74	2382	2382	2384	24.7		
15	HQAM	39	0	2288	2284	2282	23.7		
15	HQAM	39	26	2271	2269	2268	23.7		
15	HQAM	39	39	2284	2282	2283	23.7		
15	HQAM	75	0	2273	2269	2267	23.7		
15	HQAM	1	0	2247	2279	2275	23.7		
15	HQAM	1	49	2263	2278	2278	23.7		
15	HQAM	1	74	2275	2283	2277	23.7		
15	HQAM	39	0	2148	2169	2163	22.7		
15	HQAM	39	26	2152	2171	2171	22.7		
15	HQAM	39	39	2168	2185	2185	22.7		
15	HQAM	75	0	2170	2170	2168	22.7		
15	SSBQAM	1	0	1949	1952	1937	20.7		
15	SSBQAM	1	39	1933	1928	1932	20.7		
15	SSBQAM	1	74	1946	1946	1939	20.7		
15	SSBQAM	39	0	1935	1941	1937	20.7		
15	SSBQAM	39	26	1932	1943	1939	20.7		
15	SSBQAM	39	39	1938	1938	1935	20.7		
15	SSBQAM	75	0	1938	1938	1931	20.7		
Channel				133112	133272	133422	Turn-up (dB)		
Frequency (MHz)				682.5	692.5	692.5			
10	QPSK	1	0	2452	2457	2449	25.7		
10	QPSK	1	25	2455	2445	2450	25.7		
10	QPSK	1	49	2452	2451	2445	25.7		
10	QPSK	25	0	2372	2358	2353	24.7		
10	QPSK	25	12	2371	2358	2359	24.7		
10	QPSK	25	25	2366	2362	2361	24.7		
10	QPSK	50	0	2371	2365	2356	24.7		
10	HQAM	1	0	2405	2391	2384	24.7		
10	HQAM	1	25	2392	2386	2389	24.7		
10	HQAM	1	49	2388	2390	2383	24.7		
10	HQAM	25	0	2272	2266	2264	23.7		
10	HQAM	25	12	2271	2267	2264	23.7		
10	HQAM	25	25	2264	2260	2261	23.7		
10	HQAM	50	0	2271	2263	2264	23.7		
10	HQAM	1	0	2254	2278	2273	23.7		
10	HQAM	1	25	2258	2270	2260	23.7		
10	HQAM	1	49	2266	2281	2271	23.7		
10	HQAM	25	0	2132	2159	2165	22.7		
10	HQAM	25	12	2133	2160	2162	22.7		
10	HQAM	25	25	2128	2165	2164	22.7		
10	HQAM	50	0	2141	2168	2157	22.7		
10	SSBQAM	1	0	1955	1957	1939	20.7		
10	SSBQAM	1	25	1938	1928	1934	20.7		
10	SSBQAM	1	49	1937	1945	1935	20.7		
10	SSBQAM	25	0	1934	1942	1937	20.7		
10	SSBQAM	25	12	1932	1935	1932	20.7		
10	SSBQAM	25	25	1940	1928	1928	20.7		
10	SSBQAM	50	0	1938	1933	1922	20.7		
Channel				133147	133247	133447	Turn-up (dB)		
Frequency (MHz)				682.5	692.5	692.5			
5	QPSK	1	0	2463	2457	2458	25.7		
5	QPSK	1	12	2461	2454	2456	25.7		
5	QPSK	1	24	2458	2454	2447	25.7		
5	QPSK	19	0	2379	2363	2364	24.7		
5	QPSK	12	7	2373	2364	2370	24.7		
5	QPSK	12	19	2368	2360	2361	24.7		
5	QPSK	24	0	2370	2364	2359	24.7		
5	HQAM	1	0	2402	2392	2389	24.7		
5	HQAM	1	12	2395	2390	2388	24.7		
5	HQAM	1	24	2389	2388	2383	24.7		
5	HQAM	19	0	2282	2268	2268	23.7		
5	HQAM	19	12	2276	2268	2270	23.7		
5	HQAM	19	19	2289	2261	2261	23.7		
5	HQAM	25	0	2273	2265	2262	23.7		
5	HQAM	1	0	2223	2260	2279	23.7		
5	HQAM	1	12	2248	2285	2281	23.7		
5	HQAM	1	24	2247	2283	2278	23.7		
5	HQAM	19	0	2168	2164	2163	22.7		
5	HQAM	19	12	2131	2167	2162	22.7		
5	HQAM	19	19	2149	2170	2173	22.7		
5	SSBQAM	1	0	1955	1952	1931	20.7		
5	SSBQAM	1	12	1937	1928	1936	20.7		
5	SSBQAM	1	24	1938	1947	1935	20.7		
5	SSBQAM	19	0	1935	1945	1934	20.7		
5	SSBQAM	19	12	1937	1938	1932	20.7		
5	SSBQAM	19	19	1936	1936	1929	20.7		
5	SSBQAM	22	0	1937	1935	1931	20.7		



Band 5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up (dBm)		
Channel									
Frequency (MHz)									
ISD									
10	QPSK	1	0	2347	2347	2348	25		
10	QPSK	1	25	2351	2356	2353	25		
10	QPSK	1	49	2358	2353	2345	25		
10	QPSK	25	0	2263	2266	2263	24		
10	QPSK	25	12	2272	2267	2262	24		
10	QPSK	25	25	2288	2270	2264	24		
10	QPSK	25	0	2272	2266	2259	24		
10	QPSK	1	0	2291	2292	2297	24		
10	HQAM	1	25	2292	2298	2292	24		
10	HQAM	1	49	2298	2293	2283	24		
10	HQAM	25	0	2159	2165	2158	23		
10	HQAM	25	0	2171	2167	2163	23		
10	HQAM	25	25	2168	2171	2162	23		
10	HQAM	50	0	2170	2184	2182	23		
10	HQAM	1	0	2174	2171	2181	23		
10	HQAM	1	25	2158	2150	2175	23		
10	HQAM	1	49	2187	2183	2177	23		
10	HQAM	25	0	2066	2065	2066	22		
10	HQAM	25	12	2077	2072	2067	22		
10	HQAM	25	25	2071	2074	2065	22		
10	HQAM	50	0	2073	2069	2065	22		
10	SSBQAM	1	0	1848	1853	1858	20		
10	SSBQAM	1	25	1853	1850	1851	20		
10	SSBQAM	1	49	1850	1853	1854	20		
10	SSBQAM	25	0	1847	1848	1845	20		
10	SSBQAM	25	12	1848	1842	1839	20		
10	SSBQAM	25	25	1838	1848	1848	20		
10	SSBQAM	50	0	1851	1849	1844	20		
Channel									
Frequency (MHz)									
ISD									
5	QPSK	1	0	2361	2362	2360	25		
5	QPSK	1	25	2366	2363	2362	25		
5	QPSK	1	24	2357	2359	2353	25		
5	QPSK	12	0	2263	2273	2265	24		
5	QPSK	12	0	2270	2274	2268	24		
5	QPSK	12	12	2285	2287	2287	24		
5	QPSK	25	0	2268	2272	2258	24		
5	HQAM	1	0	2294	2291	2293	24		
5	HQAM	1	12	2292	2299	2284	24		
5	HQAM	1	24	2294	2298	2290	24		
5	HQAM	12	0	2187	2175	2187	23		
5	HQAM	12	7	2171	2177	2181	23		
5	HQAM	12	13	2166	2169	2156	23		
5	HQAM	25	0	2172	2174	2160	23		
5	HQAM	1	0	2188	2195	2186	23		
5	HQAM	1	25	2183	2190	2178	23		
5	HQAM	1	24	2188	2191	2192	23		
5	HQAM	12	0	2074	2080	2055	22		
5	HQAM	12	7	2078	2081	2072	22		
5	HQAM	12	13	2071	2075	2028	22		
5	HQAM	25	0	2073	2076	2033	22		
5	SSBQAM	1	0	1838	1838	1838	20		
5	SSBQAM	1	12	1850	1840	1853	20		
5	SSBQAM	1	24	1848	1848	1848	20		
5	SSBQAM	12	0	1840	1844	1840	20		
5	SSBQAM	12	7	1844	1837	1836	20		
5	SSBQAM	12	13	1835	1830	1846	20		
5	SSBQAM	25	0	1843	1845	1838	20		
Channel									
Frequency (MHz)									
ISD									
3	QPSK	1	0	2339	2347	2351	25		
3	QPSK	1	8	2349	2353	2348	25		
3	QPSK	8	0	2351	2351	2345	25		
3	QPSK	8	0	2285	2288	2288	24		
3	QPSK	8	4	2288	2288	2284	24		
3	QPSK	8	0	2283	2285	2288	24		
3	QPSK	16	0	2262	2260	2250	24		
3	HQAM	1	0	2291	2292	2290	24		
3	HQAM	1	8	2287	2297	2286	24		
3	HQAM	1	14	2294	2290	2273	24		
3	HQAM	8	0	2166	2169	2167	23		
3	HQAM	8	4	2184	2162	2163	23		
3	HQAM	8	7	2161	2166	2157	23		
3	HQAM	16	0	2166	2164	2152	23		
3	HQAM	1	0	2185	2187	2174	23		
3	HQAM	1	8	2178	2183	2169	23		
3	HQAM	1	14	2181	2179	2166	23		
3	HQAM	8	0	2081	2080	2081	22		
3	HQAM	8	4	2078	2072	2089	22		
3	HQAM	8	7	2083	2072	2041	22		
3	HQAM	16	0	2065	2059	2059	22		
3	SSBQAM	1	0	1846	1847	1849	20		
3	SSBQAM	1	8	1843	1847	1851	20		
3	SSBQAM	1	14	1845	1863	1845	20		
3	SSBQAM	8	0	1838	1844	1836	20		
3	SSBQAM	8	4	1846	1837	1836	20		
3	SSBQAM	8	7	1834	1842	1843	20		
3	SSBQAM	16	0	1848	1844	1835	20		
Channel									
Frequency (MHz)									
ISD									
1.4	QPSK	1	0	2345	2352	2343	25		
1.4	QPSK	1	3	2354	2358	2348	25		
1.4	QPSK	1	5	2347	2351	2339	25		
1.4	QPSK	3	0	2353	2352	2347	25		
1.4	QPSK	3	1	2357	2352	2350	25		
1.4	QPSK	3	3	2353	2357	2348	25		
1.4	QPSK	6	0	2268	2264	2251	24		
1.4	HQAM	1	0	2279	2284	2278	24		
1.4	HQAM	1	5	2286	2284	2277	24		
1.4	HQAM	1	5	2282	2288	2272	24		
1.4	HQAM	3	0	2283	2284	2284	24		
1.4	HQAM	3	1	2286	2275	2280	24		
1.4	HQAM	3	1	2281	2283	2249	24		
1.4	HQAM	6	0	2184	2171	2158	23		
1.4	HQAM	1	0	2174	2175	2139	23		
1.4	HQAM	1	3	2184	2181	2144	23		
1.4	HQAM	1	6	2178	2182	2139	23		
1.4	HQAM	3	0	2178	2174	2132	23		
1.4	HQAM	3	1	2178	2184	2144	23		
1.4	HQAM	6	0	2173	2175	2147	23		
1.4	HQAM	6	0	2059	2060	2030	22		
1.4	SSBQAM	1	0	1846	1860	1851	20		
1.4	SSBQAM	1	3	1846	1847	1851	20		
1.4	SSBQAM	1	5	1842	1853	1854	20		
1.4	SSBQAM	3	0	1845	1847	1841	20		
1.4	SSBQAM	3	1	1839	1832	1838	20		
1.4	SSBQAM	3	1	1834	1839	1841	20		
1.4	SSBQAM	6	0	1851	1840	1842	20		



Band 7_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)	Time-down (min)	
Channel				2560	2560	2560			
Frequency (MHz)				2560	2560	2560			
20	QPSK	1	0	23.87	23.84	23.99			25.5
20	QPSK	1	49	23.93	23.99	23.94			
20	QPSK	1	99	23.99	24.08	24.02			
20	QPSK	64	0	22.07	22.02	22.02			24.5
20	QPSK	50	24	23.10	23.09	23.08			
20	QPSK	50	50	23.11	23.16	23.13			
20	QPSK	100	0	22.07	22.07	22.05			
20	HQAM	1	0	23.27	23.30	23.29			24.5
20	HQAM	1	49	23.29	23.28	23.38			
20	HQAM	1	99	23.33	23.40	23.34			
20	HQAM	50	0	21.98	22.04	22.02			
20	HQAM	50	24	22.10	22.10	22.06			23.5
20	HQAM	50	50	22.13	22.17	22.14			
20	HQAM	100	0	22.08	22.07	22.03			
20	HQAM	100	0	22.04	22.11	22.10			
20	HQAM	1	49	22.10	22.26	22.21			23.5
20	HQAM	1	99	22.24	22.32	22.27			
20	HQAM	50	0	21.08	21.08	21.05			
20	HQAM	50	24	21.12	21.11	21.08			22.5
20	HQAM	50	50	21.15	21.21	21.15			
20	HQAM	100	0	21.12	21.05	21.07			
20	SSBQAM	1	0	19.20	19.27	19.13			20.5
20	SSBQAM	1	49	19.20	19.16	19.22			
20	SSBQAM	1	99	19.12	19.17	19.11			
20	SSBQAM	50	0	19.12	19.12	19.07			
20	SSBQAM	50	24	19.22	19.14	19.10			20.5
20	SSBQAM	50	50	19.17	19.16	19.13			
20	SSBQAM	100	0	19.23	19.11	19.05			
Channel				2575.5	2575.5	2575.5	Time-up (min)		
Frequency (MHz)				2575.5	2575.5	2575.5	Time-down (min)		
15	QPSK	1	0	23.83	23.84	23.95			25.5
15	QPSK	1	49	23.86	23.90	23.82			
15	QPSK	1	74	23.97	24.04	23.94			
15	QPSK	38	0	22.95	22.98	23.00			24.5
15	QPSK	38	29	23.08	23.13	23.09			
15	QPSK	75	0	23.02	23.01	23.01			
15	HQAM	1	0	23.23	23.30	23.29			24.5
15	HQAM	1	37	23.24	23.38	23.30			
15	HQAM	1	74	23.31	23.34	23.24			
15	HQAM	38	0	21.88	22.04	22.01			23.5
15	HQAM	38	20	22.10	22.02	21.97			
15	HQAM	38	39	22.10	22.09	22.14			
15	HQAM	75	0	21.98	22.05	21.94			
15	HQAM	1	0	22.07	22.08	22.08			23.5
15	HQAM	1	74	22.08	22.20	22.19			
15	HQAM	1	74	22.14	22.25	22.17			
15	HQAM	38	0	20.95	20.98	21.02			22.5
15	HQAM	38	20	21.03	21.02	21.06			
15	HQAM	38	39	21.12	21.21	21.05			
15	HQAM	75	0	21.99	21.05	21.00			20.5
15	SSBQAM	1	0	19.17	19.25	19.13			
15	SSBQAM	1	37	19.18	19.12	19.19			
15	SSBQAM	1	74	19.24	19.15	19.10			20.5
15	SSBQAM	38	0	19.04	19.12	19.04			
15	SSBQAM	38	20	19.14	19.05	19.05			
15	SSBQAM	38	39	19.16	19.14	19.08			
15	SSBQAM	75	0	19.23	19.04	19.07			
Channel				2090	2100	2100	Time-up (min)		
Frequency (MHz)				2090	2100	2100	Time-down (min)		
10	QPSK	1	0	23.89	23.92	23.99			25.5
10	QPSK	1	25	23.93	23.90	23.84			
10	QPSK	1	49	23.98	24.01	23.98			
10	QPSK	25	0	22.91	22.99	22.97			24.5
10	QPSK	25	12	23.07	23.08	23.00			
10	QPSK	25	26	23.01	23.09	23.03			
10	QPSK	50	0	22.99	23.06	23.01			24.5
10	HQAM	1	0	23.17	23.24	23.26			
10	HQAM	1	25	23.27	23.34	23.35			
10	HQAM	1	49	23.31	23.39	23.31			
10	HQAM	25	0	21.92	22.00	21.95			23.5
10	HQAM	25	12	22.07	22.08	22.06			
10	HQAM	25	26	22.08	22.10	22.07			
10	HQAM	50	0	22.02	22.04	22.00			23.5
10	HQAM	1	0	22.00	22.13	22.10			
10	HQAM	1	25	22.06	22.16	22.18			
10	HQAM	1	49	22.14	22.31	22.25			
10	HQAM	25	0	20.91	21.02	20.96			22.5
10	HQAM	25	12	21.04	21.04	21.02			
10	HQAM	25	26	21.08	21.14	21.09			
10	HQAM	50	0	21.10	21.05	21.02			
10	SSBQAM	1	0	19.15	19.19	19.10			20.5
10	SSBQAM	1	25	19.20	19.07	19.22			
10	SSBQAM	1	49	19.18	19.09	19.03			
10	SSBQAM	25	0	19.03	19.05	19.06			20.5
10	SSBQAM	25	12	19.21	19.07	19.09			
10	SSBQAM	25	26	19.16	19.08	19.08			
10	SSBQAM	50	0	19.18	19.04	19.09			
Channel				2077.5	2100	2105	Time-up (min)		
Frequency (MHz)				2077.5	2105	2107.5	Time-down (min)		
5	QPSK	1	0	23.84	23.83	23.90			25.5
5	QPSK	1	10	23.93	23.93	23.88			
5	QPSK	1	24	23.89	24.02	23.95			
5	QPSK	10	0	22.96	22.93	22.99			24.5
5	QPSK	12	7	23.09	23.02	22.96			
5	QPSK	12	13	23.11	23.14	23.13			
5	QPSK	24	0	23.04	22.98	23.01			24.5
5	HQAM	1	0	23.17	23.28	23.19			
5	HQAM	1	10	23.25	23.33	23.30			24.5
5	HQAM	1	24	23.32	23.34	23.34			
5	HQAM	12	0	21.94	21.98	21.98			23.5
5	HQAM	12	13	22.03	22.02	22.05			
5	HQAM	12	13	22.10	22.15	22.14			
5	HQAM	25	0	22.00	22.07	21.95			23.5
5	HQAM	1	0	22.01	22.10	22.09			
5	HQAM	1	12	22.10	22.21	22.15			
5	HQAM	11	24	22.19	22.31	22.19			22.5
5	HQAM	12	0	20.91	20.99	20.99			
5	HQAM	12	7	21.07	21.02	21.03			
5	HQAM	12	13	21.08	21.17	21.08			
5	HQAM	25	0	21.04	21.02	21.07			22.5
5	SSBQAM	1	0	19.11	19.25	19.11			20.5
5	SSBQAM	1	10	19.26	19.06	19.15			
5	SSBQAM	1	24	19.08	19.10	19.03			
5	SSBQAM	12	0	19.08	19.06	19.06			20.5
5	SSBQAM	12	13	19.22	19.13	19.00			
5	SSBQAM	12	13	19.12	19.07	19.13			
5	SSBQAM	25	0	19.22	19.07	19.02			



Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
10	QPSK	1	0	2448	2458	2459			
10	QPSK	1	26	2439	2442	2440			25.7
10	QPSK	1	49	2450	2443	2448			
10	QPSK	26	0	2353	2354	2353			
10	QPSK	26	12	2380	2353	2353			24.7
10	QPSK	26	25	2358	2359	2360			
10	QPSK	50	0	2381	2353	2353			
10	HQAM	1	0	2382	2376	2378			24.7
10	HQAM	1	26	2381	2382	2380			
10	HQAM	1	49	2387	2385	2378			
10	HQAM	26	0	2254	2255	2253			
10	HQAM	26	12	2261	2255	2254			23.7
10	HQAM	26	25	2259	2260	2257			
10	HQAM	50	0	2260	2255	2252			
10	HQAM	50	12	2254	2254	2262			
10	HQAM	1	26	2271	2276	2274			23.7
10	HQAM	1	49	2273	2254	2239			
10	HQAM	26	0	2127	2136	2136			
10	HQAM	26	12	2149	2185	2158			22.7
10	HQAM	26	25	2183	2180	2181			
10	HQAM	50	0	2141	2155	2159			
10	256QAM	1	0	1947	1986	1947			20.7
10	256QAM	1	26	1953	1973	1949			
10	256QAM	1	49	1984	1955	1937			
10	256QAM	26	0	1944	1946	1940			
10	256QAM	26	12	1945	1946	1946			20.7
10	256QAM	26	25	1939	1941	1943			
10	256QAM	50	0	1951	1943	1941			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
5	QPSK	1	0	2448	2447	2439			
5	QPSK	1	26	2448	2448	2440			25.7
5	QPSK	1	24	2447	2449	2446			
5	QPSK	12	0	2362	2354	2355			
5	QPSK	12	6	2355	2359	2359			24.7
5	QPSK	12	12	2385	2354	2351			
5	QPSK	25	0	2358	2352	2352			
5	HQAM	1	0	2383	2383	2373			24.7
5	HQAM	1	12	2380	2379	2375			
5	HQAM	1	24	2382	2380	2376			
5	HQAM	12	0	2266	2262	2259			
5	HQAM	12	6	2258	2254	2254			23.7
5	HQAM	12	12	2265	2259	2254			
5	HQAM	25	0	2259	2253	2253			
5	HQAM	1	0	2224	2237	2286			23.7
5	HQAM	1	24	2248	2274	2299			
5	HQAM	1	24	2223	2273	2249			
5	HQAM	12	0	2135	2184	2180			
5	HQAM	12	6	2145	2187	2181			22.7
5	HQAM	12	12	2135	2180	2142			
5	HQAM	25	0	2111	2157	2150			
5	256QAM	1	0	1938	1936	1945			
5	256QAM	1	12	1950	1984	1939			20.7
5	256QAM	1	24	1947	1947	1954			
5	256QAM	12	0	1943	1938	1932			
5	256QAM	12	6	1938	1932	1945			20.7
5	256QAM	12	12	1938	1938	1934			
5	256QAM	25	0	1947	1933	1933			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
3	QPSK	1	0	2448	2437	2433			
3	QPSK	1	6	2434	2442	2436			25.7
3	QPSK	1	11	2443	2433	2436			
3	QPSK	6	0	2343	2354	2348			
3	QPSK	6	4	2352	2349	2351			24.7
3	QPSK	6	8	2349	2358	2351			
3	QPSK	16	0	2358	2351	2345			
3	HQAM	1	0	2376	2386	2370			24.7
3	HQAM	1	6	2376	2379	2372			
3	HQAM	1	14	2385	2383	2380			
3	HQAM	6	0	2252	2251	2249			23.7
3	HQAM	6	4	2260	2245	2242			
3	HQAM	6	7	2250	2250	2254			
3	HQAM	16	0	2267	2250	2245			
3	HQAM	1	0	2247	2255	2267			23.7
3	HQAM	1	6	2266	2272	2274			
3	HQAM	1	14	2266	2248	2233			
3	HQAM	6	0	2117	2131	2155			
3	HQAM	6	4	2140	2152	2159			22.7
3	HQAM	6	7	2147	2153	2153			
3	HQAM	16	0	2131	2149	2150			
3	256QAM	1	0	1944	1957	1941			
3	256QAM	1	6	1949	1958	1948			20.7
3	256QAM	1	14	1958	1954	1949			
3	256QAM	6	0	1943	1936	1930			
3	256QAM	6	4	1943	1939	1943			20.7
3	256QAM	6	7	1937	1941	1942			
3	256QAM	16	0	1943	1937	1939			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
1.4	QPSK	1	0	2444	2433	2436			
1.4	QPSK	1	3	2444	2442	2438			25.7
1.4	QPSK	1	5	2437	2436	2429			
1.4	QPSK	1	8	2442	2438	2437			
1.4	QPSK	3	1	2449	2442	2440			
1.4	QPSK	3	3	2443	2443	2437			24.7
1.4	QPSK	6	0	2359	2347	2343			
1.4	HQAM	1	0	2376	2387	2371			
1.4	HQAM	1	6	2376	2386	2377			24.7
1.4	HQAM	1	5	2370	2369	2363			
1.4	HQAM	3	0	2353	2347	2347			
1.4	HQAM	3	6	2366	2351	2350			23.7
1.4	HQAM	3	1	2351	2350	2343			
1.4	HQAM	6	0	2257	2256	2249			
1.4	HQAM	1	0	2234	2261	2237			23.7
1.4	HQAM	1	3	2245	2272	2234			
1.4	HQAM	1	6	2247	2263	2220			
1.4	HQAM	3	0	2228	2256	2239			
1.4	HQAM	3	1	2228	2261	2237			
1.4	HQAM	6	0	2123	2150	2123			22.7
1.4	256QAM	1	0	1938	1958	1939			
1.4	256QAM	1	6	1945	1971	1941			
1.4	256QAM	1	5	1951	1954	1953			20.7
1.4	256QAM	3	0	1943	1943	1936			
1.4	256QAM	3	6	1938	1942	1937			
1.4	256QAM	3	1	1939	1931	1938			
1.4	256QAM	6	0	1949	1937	1939			20.7



Band 13_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2153		
10	QPSK	1	25	2151		
10	QPSK	1	49	2157		
10	QPSK	25	0	2240		
10	QPSK	25	12	2241		
10	QPSK	25	25	2245		
10	QPSK	50	0	2251		
10	16QAM	1	0	2282		
10	16QAM	1	25	2286		
10	16QAM	1	49	2288		
10	16QAM	25	0	2151		
10	16QAM	25	12	2156		
10	16QAM	25	25	2160		
10	16QAM	50	0	2194		
10	16QAM	1	0	2190		
10	16QAM	1	25	2151		
10	16QAM	1	49	2178		
10	16QAM	25	0	2095		
10	16QAM	25	12	2089		
10	16QAM	25	25	2071		
10	16QAM	50	0	2088		
10	256QAM	1	0	1825		
10	256QAM	1	25	1830		
10	256QAM	1	49	1830		
10	256QAM	25	0	1841		
10	256QAM	25	12	1846		
10	256QAM	25	25	1850		
10	256QAM	50	0	1844		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2345	2348	2322
5	QPSK	1	24	2350	2354	2334
5	QPSK	1	24	2355	2356	2331
5	QPSK	12	0	2258	2259	2232
5	QPSK	12	12	2262	2263	2240
5	QPSK	12	12	2265	2267	2238
5	QPSK	25	0	2265	2263	2237
5	16QAM	1	0	2284	2278	2250
5	16QAM	1	12	2275	2282	2249
5	16QAM	1	24	2284	2288	2251
5	16QAM	12	0	2182	2184	2136
5	16QAM	12	7	2188	2184	2143
5	16QAM	12	13	2184	2171	2142
5	16QAM	25	0	2170	2163	2141
5	16QAM	1	0	2173	2168	2142
5	16QAM	1	24	2168	2181	2148
5	16QAM	1	24	2177	2181	2148
5	16QAM	12	0	2086	2070	2043
5	16QAM	12	7	2072	2087	2045
5	16QAM	12	13	2071	2075	2043
5	16QAM	25	0	2073	2086	2042
5	256QAM	1	0	1816	1824	1822
5	256QAM	1	12	1843	1845	1847
5	256QAM	1	24	1865	1867	1866
5	256QAM	12	0	1837	1835	1838
5	256QAM	12	7	1848	1836	1840
5	256QAM	12	13	1838	1835	1834
5	256QAM	25	0	1837	1834	1841



Band 14_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	21.86	21.86	21.86
10	QPSK	1	25	23.60	23.60	23.60
10	QPSK	1	49	23.58	23.58	23.58
10	QPSK	25	0	22.63	22.63	22.63
10	QPSK	25	12	22.65	22.65	22.65
10	QPSK	25	25	22.74	22.74	22.74
10	QPSK	50	0	22.97	22.97	22.97
10	16QAM	1	0	21.82	21.82	21.82
10	16QAM	1	25	22.99	22.99	22.99
10	16QAM	1	49	22.97	22.97	22.97
10	16QAM	25	0	21.85	21.85	21.85
10	16QAM	25	12	21.88	21.88	21.88
10	16QAM	25	25	21.73	21.73	21.73
10	16QAM	50	0	21.88	21.88	21.88
10	16QAM	1	0	21.90	21.90	21.90
10	16QAM	1	25	21.95	21.95	21.95
10	16QAM	1	49	21.90	21.90	21.90
10	16QAM	25	0	20.87	20.87	20.87
10	16QAM	25	12	20.89	20.89	20.89
10	16QAM	25	25	20.76	20.76	20.76
10	16QAM	50	0	20.87	20.87	20.87
10	256QAM	1	0	18.45	18.45	18.45
10	256QAM	1	25	18.58	18.58	18.58
10	256QAM	1	49	18.54	18.54	18.54
10	256QAM	25	0	18.50	18.50	18.50
10	256QAM	25	12	18.44	18.44	18.44
10	256QAM	25	25	18.47	18.47	18.47
10	256QAM	50	0	18.50	18.50	18.50
Channel						
Frequency (MHz)						
5	QPSK	1	0	23.58	23.55	23.56
5	QPSK	1	24	23.63	23.66	23.64
5	QPSK	1	24	23.65	23.64	23.56
5	QPSK	12	0	22.71	22.65	22.84
5	QPSK	12	6	22.76	22.73	22.70
5	QPSK	12	12	22.71	22.73	22.68
5	QPSK	25	0	22.69	22.66	22.63
5	16QAM	1	0	22.91	22.92	22.97
5	16QAM	1	12	23.00	23.02	22.98
5	16QAM	1	24	22.98	23.00	22.99
5	16QAM	12	0	21.73	21.68	21.64
5	16QAM	12	7	21.77	21.77	21.73
5	16QAM	12	13	21.73	21.72	21.66
5	16QAM	25	0	21.71	21.68	21.64
5	16QAM	1	0	21.87	21.89	21.85
5	16QAM	1	12	21.93	22.00	21.94
5	16QAM	1	24	21.90	21.95	21.92
5	16QAM	12	0	20.86	20.71	20.89
5	16QAM	12	7	20.78	20.83	20.75
5	16QAM	12	13	20.75	20.76	20.89
5	16QAM	25	0	20.72	20.67	20.69
5	256QAM	1	0	18.38	18.37	18.42
5	256QAM	1	12	18.55	18.48	18.55
5	256QAM	1	24	18.54	18.72	18.55
5	256QAM	12	7	18.38	18.34	18.35
5	256QAM	12	13	18.47	18.46	18.39
5	256QAM	25	0	18.40	18.47	18.44



Band 17_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (sec)
Channel				700	710	711	
Frequency (MHz)				2430	2490	2550	
10	QPSK	1	0	2335	2331	2332	
10	QPSK	1	24	2338	2337	2337	25
10	QPSK	1	48	2337	2345	2338	
10	QPSK	24	0	2238	2230	2241	
10	QPSK	24	12	2232	2250	2248	
10	QPSK	24	24	2239	2237	2235	24
10	QPSK	24	0	2247	2248	2245	
10	QPSK	24	12	2270	2288	2289	
10	HQAM	1	24	2275	2278	2274	24
10	HQAM	1	48	2278	2280	2277	
10	HQAM	24	0	2141	2141	2141	
10	HQAM	24	12	2155	2148	2147	23
10	HQAM	24	24	2157	2154	2151	
10	HQAM	24	0	2144	2148	2142	
10	HQAM	12	0	2155	2154	2150	
10	HQAM	1	24	2157	2159	2158	23
10	HQAM	1	48	2153	2160	2148	
10	HQAM	24	0	2043	2043	2044	
10	HQAM	24	12	2059	2051	2051	22
10	HQAM	24	24	2059	2058	2058	
10	HQAM	24	0	2049	2047	2045	
10	256QAM	1	0	1834	1839	1822	
10	256QAM	1	24	1843	1840	1841	20
10	256QAM	1	48	1854	1847	1838	
10	256QAM	24	0	1831	1827	1830	
10	256QAM	24	12	1830	1846	1834	
10	256QAM	24	24	1840	1837	1839	20
10	256QAM	24	0	1827	1840	1831	
Channel				2530	2590	2650	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	2333	2328	2327	
5	QPSK	1	24	2343	2342	2330	25
5	QPSK	1	24	2343	2344	2340	
5	QPSK	12	0	2244	2248	2241	
5	QPSK	12	12	2251	2248	2243	24
5	QPSK	12	12	2253	2252	2245	
5	QPSK	24	0	2249	2247	2242	
5	HQAM	1	0	2265	2267	2266	
5	HQAM	1	12	2274	2278	2270	24
5	HQAM	1	24	2278	2278	2275	
5	HQAM	12	0	2148	2147	2146	
5	HQAM	12	7	2153	2152	2145	23
5	HQAM	12	13	2154	2152	2147	
5	HQAM	24	0	2151	2148	2144	
5	HQAM	1	0	2157	2166	2163	
5	HQAM	1	24	2166	2170	2164	23
5	HQAM	1	24	2179	2178	2167	
5	HQAM	12	0	2050	2049	2047	
5	HQAM	12	7	2057	2055	2051	22
5	HQAM	12	13	2057	2058	2052	
5	HQAM	24	0	2051	2049	2044	
5	256QAM	1	0	1825	1831	1816	
5	256QAM	1	12	1840	1845	1842	20
5	256QAM	1	24	1852	1839	1837	
5	256QAM	12	0	1828	1825	1825	
5	256QAM	12	7	1828	1833	1830	20
5	256QAM	12	13	1836	1837	1837	
5	256QAM	24	0	1820	1830	1831	



Band 30_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	23.87		
10	QPSK	1	25	23.88		
10	QPSK	1	49	23.85		
10	QPSK	25	0	22.90		
10	QPSK	25	12	22.94		
10	QPSK	25	25	22.96		
10	QPSK	50	0	22.94		
10	16QAM	1	0	23.21		
10	16QAM	1	25	23.25		
10	16QAM	1	49	23.23		
10	16QAM	25	0	21.88		
10	16QAM	25	12	21.97		
10	16QAM	25	25	21.94		
10	16QAM	50	0	21.93		
10	16QAM	1	0	22.90		
10	16QAM	1	25	22.17		
10	16QAM	1	49	22.02		
10	16QAM	25	0	20.92		
10	16QAM	25	12	21.82		
10	16QAM	25	25	20.95		
10	16QAM	50	0	20.98		
10	256QAM	1	0	19.20		
10	256QAM	1	25	19.23		
10	256QAM	1	49	19.13		
10	256QAM	25	0	18.96		
10	256QAM	25	12	19.06		
10	256QAM	25	25	19.03		
10	256QAM	50	0	19.03		
Channel						
Frequency (MHz)						
5	QPSK	1	0	23.75	23.79	23.86
5	QPSK	1	25	23.82	23.86	23.90
5	QPSK	1	49	23.85	23.87	23.79
5	QPSK	12	0	22.87	22.89	22.94
5	QPSK	12	12	22.98	22.94	22.98
5	QPSK	12	13	22.89	22.83	22.86
5	QPSK	25	0	22.97	22.94	22.96
5	16QAM	1	0	23.07	23.10	23.17
5	16QAM	1	12	23.18	23.17	23.13
5	16QAM	1	24	23.24	23.18	23.29
5	16QAM	12	0	21.88	21.83	21.95
5	16QAM	12	7	22.01	21.98	22.00
5	16QAM	12	13	22.01	21.95	21.96
5	16QAM	25	0	21.98	21.94	21.94
5	16QAM	1	0	22.03	22.08	21.87
5	16QAM	1	24	22.16	22.14	21.97
5	16QAM	1	24	22.16	22.09	21.83
5	16QAM	12	0	20.94	20.96	20.93
5	16QAM	12	7	21.05	21.02	20.95
5	16QAM	12	13	21.05	20.96	20.95
5	16QAM	25	0	21.01	21.00	20.81
5	256QAM	1	0	19.11	19.19	19.16
5	256QAM	1	12	19.21	19.19	19.22
5	256QAM	1	24	19.06	19.05	19.07
5	256QAM	12	7	18.99	19.08	18.96
5	256QAM	12	13	19.03	19.03	18.99
5	256QAM	25	0	19.03	18.96	19.01



Band 71_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)		
Channel									
Frequency (MHz)									
				693	693	698			
20	QPSK	1	0	2348	2348	2337	25		
20	QPSK	1	49	2342	2341	2337			
20	QPSK	1	99	2336	2339	2338			
20	QPSK	60	0	2257	2258	2248	24		
20	QPSK	50	24	2254	2249	2248			
20	QPSK	50	50	2258	2251	2250			
20	HQAM	100	0	2251	2252	2248	24		
20	HQAM	1	0	2288	2282	2274			
20	HQAM	1	49	2277	2277	2276			
20	HQAM	50	99	2271	2272	2271	23		
20	HQAM	50	0	2159	2153	2148			
20	HQAM	50	24	2161	2161	2149			
20	HQAM	50	50	2158	2153	2150	23		
20	HQAM	100	0	2159	2148	2148			
20	HQAM	1	49	2156	2150	2158			
20	HQAM	1	99	2159	2163	2160	22		
20	HQAM	50	0	2053	2056	2047			
20	HQAM	50	24	2083	2084	2081			
20	HQAM	50	50	2080	2086	2083	20		
20	HQAM	100	0	2081	2082	2080			
20	SSBQAM	1	0	1858	1844	1857			
20	SSBQAM	1	49	1857	1852	1846	20		
20	SSBQAM	1	99	1846	1845	1849			
20	SSBQAM	50	0	1847	1843	1830			
20	SSBQAM	50	24	1841	1835	1829	20		
20	SSBQAM	50	50	1835	1835	1827			
20	SSBQAM	100	0	1843	1836	1829			
Channel									
Frequency (MHz)									
				670.5	680.5	690.5	Time-up (sec)		
15	QPSK	1	0	2341	2346	2329	25		
15	QPSK	1	49	2340	2337	2330			
15	QPSK	1	74	2325	2332	2327			
15	QPSK	30	0	2249	2248	2241	24		
15	QPSK	30	20	2250	2245	2240			
15	QPSK	30	39	2247	2241	2244			
15	HQAM	1	0	2280	2282	2271	24		
15	HQAM	1	39	2275	2267	2268			
15	HQAM	1	74	2268	2270	2270			
15	HQAM	30	0	2153	2153	2144	23		
15	HQAM	30	20	2158	2142	2144			
15	HQAM	30	39	2148	2151	2146			
15	HQAM	75	0	2153	2141	2144	23		
15	HQAM	1	0	2168	2157	2162			
15	HQAM	1	39	2158	2151	2155			
15	HQAM	1	74	2150	2158	2160	22		
15	HQAM	30	0	2047	2049	2042			
15	HQAM	30	20	2062	2054	2050			
15	HQAM	30	39	2052	2054	2050	20		
15	HQAM	75	0	2058	2048	2049			
15	SSBQAM	1	0	1853	1840	1855			
15	SSBQAM	1	39	1852	1831	1843	20		
15	SSBQAM	1	74	1841	1835	1847			
15	SSBQAM	30	0	1843	1840	1834			
15	SSBQAM	30	20	1838	1835	1823	20		
15	SSBQAM	30	39	1830	1830	1822			
15	SSBQAM	75	0	1830	1833	1819			
Channel									
Frequency (MHz)									
				13312	13322	13342	Time-up (sec)		
10	QPSK	1	0	2340	2348	2335	25		
10	QPSK	1	25	2340	2338	2334			
10	QPSK	1	49	2325	2334	2334			
10	QPSK	25	0	2287	2283	2280	24		
10	QPSK	25	12	2283	2248	2247			
10	QPSK	25	25	2281	2248	2249			
10	HQAM	1	0	2248	2245	2240	24		
10	HQAM	1	0	2288	2282	2270			
10	HQAM	1	25	2287	2269	2276			
10	HQAM	1	49	2284	2282	2285	23		
10	HQAM	25	0	2152	2152	2139			
10	HQAM	25	12	2159	2151	2146			
10	HQAM	25	25	2150	2143	2148	23		
10	HQAM	50	0	2154	2148	2140			
10	HQAM	1	0	2172	2163	2155			
10	HQAM	1	25	2184	2127	2153	22		
10	HQAM	1	49	2149	2156	2159			
10	HQAM	25	0	2040	2036	2040			
10	HQAM	25	12	2062	2045	2049	20		
10	HQAM	25	25	2058	2053	2051			
10	HQAM	50	0	2058	2050	2042			
10	SSBQAM	1	0	1848	1839	1842	20		
10	SSBQAM	1	25	1847	1824	1841			
10	SSBQAM	1	49	1845	1843	1844			
10	SSBQAM	25	0	1838	1840	1832	20		
10	SSBQAM	25	12	1834	1828	1823			
10	SSBQAM	25	25	1833	1834	1823			
10	SSBQAM	50	0	1841	1838	1823			
Channel									
Frequency (MHz)									
				692.5	676.5	690.5	Time-up (sec)		
5	QPSK	1	0	2341	2345	2331	25		
5	QPSK	1	12	2338	2341	2331			
5	QPSK	1	24	2328	2338	2329			
5	QPSK	10	0	2250	2256	2238	24		
5	QPSK	12	7	2245	2243	2230			
5	QPSK	12	13	2250	2244	2248			
5	HQAM	1	0	2243	2244	2242	24		
5	HQAM	1	0	2279	2277	2285			
5	HQAM	1	12	2270	2274	2287			
5	HQAM	1	24	2262	2269	2262	23		
5	HQAM	12	0	2149	2152	2148			
5	HQAM	12	13	2154	2146	2140			
5	HQAM	12	13	2149	2148	2149	23		
5	HQAM	25	0	2153	2139	2146			
5	HQAM	1	0	2173	2160	2158			
5	HQAM	1	12	2182	2188	2185	22		
5	HQAM	1	24	2159	2160	2159			
5	HQAM	12	0	2048	2047	2043			
5	HQAM	12	7	2061	2053	2049	20		
5	HQAM	12	13	2059	2054	2048			
5	HQAM	25	0	2059	2052	2047			
5	SSBQAM	1	0	1856	1838	1849	20		
5	SSBQAM	1	12	1857	1823	1846			
5	SSBQAM	1	24	1842	1841	1848			
5	SSBQAM	12	0	1847	1835	1832	20		
5	SSBQAM	12	13	1840	1832	1827			
5	SSBQAM	12	13	1830	1828	1820			
5	SSBQAM	25	0	1834	1827	1822			



Band 2_Ant 2						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq	Power High Ch./Freq	Time-up limit
Channel						
Frequency (MHz)						
				1880	1885	1890
20	QPSK	1	0	23.89	24.00	24.14
20	QPSK	1	48	23.89	24.13	24.23
20	QPSK	1	96	24.08	24.14	24.18
20	QPSK	66	0	23.00	23.10	23.32
20	QPSK	50	24	23.14	23.26	23.28
20	QPSK	50	50	23.18	23.30	23.35
20	QPSK	100	0	22.14	22.18	22.32
20	HQAM	1	0	22.27	23.30	23.51
20	HQAM	1	48	23.18	23.49	23.35
20	HQAM	96	0	22.34	23.42	23.48
20	HQAM	50	0	22.03	22.09	22.27
20	HQAM	50	24	22.13	22.21	22.28
20	HQAM	50	50	22.24	22.33	22.40
20	HQAM	100	0	22.14	22.21	22.20
20	HQAM	1	48	22.18	22.16	22.05
20	HQAM	1	48	22.07	22.33	21.57
20	HQAM	1	96	22.27	22.43	21.88
20	HQAM	50	0	22.18	22.08	20.75
20	HQAM	50	24	21.18	21.28	20.74
20	HQAM	50	50	21.18	21.30	20.98
20	HQAM	100	0	21.14	21.22	20.70
20	SRQAM	1	0	19.93	19.98	19.70
20	SRQAM	1	48	19.82	19.72	19.74
20	SRQAM	96	0	19.87	19.78	19.81
20	SRQAM	50	0	19.86	19.93	19.80
20	SRQAM	50	24	19.87	19.96	19.88
20	SRQAM	50	50	19.70	19.77	19.77
20	SRQAM	100	0	19.62	19.62	19.71
Channel						
Frequency (MHz)						
				1892.5	1890	1892.5
15	QPSK	1	0	23.84	23.97	24.18
15	QPSK	1	48	23.83	24.04	24.13
15	QPSK	1	74	24.08	24.12	24.11
15	QPSK	30	0	23.00	23.16	23.15
15	QPSK	30	24	23.04	23.12	23.28
15	QPSK	30	39	23.15	23.30	23.34
15	QPSK	75	0	23.13	23.16	23.23
15	HQAM	1	0	22.02	23.08	23.05
15	HQAM	1	37	23.08	23.41	23.25
15	HQAM	1	74	23.08	23.32	23.44
15	HQAM	30	0	21.99	22.03	22.27
15	HQAM	30	20	22.08	22.18	22.24
15	HQAM	30	39	22.04	22.05	22.30
15	HQAM	75	0	22.10	22.15	22.14
15	HQAM	1	0	22.48	22.09	22.28
15	HQAM	1	37	22.00	22.05	21.70
15	HQAM	1	74	22.20	22.35	21.78
15	HQAM	30	0	21.10	21.15	20.70
15	HQAM	30	20	21.17	21.17	20.71
15	HQAM	30	39	21.09	21.28	20.93
15	HQAM	75	0	21.33	21.16	20.70
15	SRQAM	1	0	19.93	19.49	19.63
15	SRQAM	1	37	19.52	19.83	19.84
15	SRQAM	1	74	19.52	19.67	19.54
15	SRQAM	30	0	19.51	19.50	19.50
15	SRQAM	30	20	19.61	19.68	19.88
15	SRQAM	30	39	19.66	19.71	19.71
15	SRQAM	75	0	19.54	19.55	19.71
Channel						
Frequency (MHz)						
				1895.0	1890.0	1895.0
10	QPSK	1	0	23.80	23.98	24.11
10	QPSK	1	25	23.88	24.05	24.08
10	QPSK	1	48	24.08	24.05	24.12
10	QPSK	25	0	22.82	23.13	23.12
10	QPSK	25	12	23.08	23.18	23.19
10	QPSK	25	24	23.10	23.21	23.28
10	QPSK	60	0	23.12	23.06	23.31
10	HQAM	1	0	23.18	23.23	23.41
10	HQAM	1	24	23.18	23.47	23.32
10	HQAM	1	48	23.33	23.37	23.40
10	HQAM	25	0	21.98	22.07	22.31
10	HQAM	25	12	22.08	22.19	22.23
10	HQAM	25	24	22.20	22.28	22.34
10	HQAM	60	0	22.08	22.13	22.10
10	HQAM	1	0	22.46	22.12	22.33
10	HQAM	1	25	22.07	22.30	21.70
10	HQAM	1	48	22.37	22.37	21.78
10	HQAM	25	0	21.87	21.11	20.70
10	HQAM	25	12	21.10	21.19	20.71
10	HQAM	25	24	21.15	21.21	20.86
10	HQAM	60	0	21.08	21.20	20.70
10	SRQAM	1	0	19.55	19.69	19.70
10	SRQAM	1	48	19.87	19.69	19.88
10	SRQAM	25	0	19.78	19.67	19.82
10	SRQAM	25	12	19.52	19.54	19.53
10	SRQAM	25	24	19.62	19.76	19.77
10	SRQAM	60	0	19.57	19.57	19.68
Channel						
Frequency (MHz)						
				1897.5	1890.0	1897.5
5	QPSK	1	0	23.80	23.97	24.12
5	QPSK	1	12	23.86	24.00	24.16
5	QPSK	1	24	24.04	24.07	24.08
5	QPSK	15	0	22.80	23.12	23.13
5	QPSK	12	7	23.11	23.10	23.10
5	QPSK	12	15	23.13	23.23	23.27
5	QPSK	24	0	23.11	23.13	23.29
5	HQAM	1	0	23.18	23.27	23.41
5	HQAM	1	12	23.18	23.46	23.27
5	HQAM	1	24	23.28	23.40	23.44
5	HQAM	15	0	21.98	22.00	22.25
5	HQAM	15	7	22.05	22.14	22.36
5	HQAM	15	15	22.16	22.33	22.33
5	HQAM	25	0	22.05	22.21	22.13
5	HQAM	1	0	22.48	22.19	22.29
5	HQAM	1	12	22.83	22.32	21.70
5	HQAM	1	24	22.24	22.41	21.81
5	HQAM	15	0	21.04	21.18	20.70
5	HQAM	12	7	21.10	21.25	20.70
5	HQAM	12	15	21.10	21.27	20.84
5	HQAM	24	0	21.09	21.21	20.70
5	SRQAM	1	0	19.87	19.58	19.60
5	SRQAM	1	12	19.69	19.64	19.72
5	SRQAM	1	24	19.82	19.72	19.88
5	SRQAM	15	0	19.80	19.44	19.59
5	SRQAM	15	7	19.67	19.59	19.59
5	SRQAM	12	15	19.61	19.72	19.71
5	SRQAM	25	0	19.58	19.58	19.68
Channel						
Frequency (MHz)						
				1897.5	1890.0	1897.5
1.4	QPSK	1	0	23.88	23.94	24.12
1.4	QPSK	1	3	23.90	24.15	24.16
1.4	QPSK	3	0	23.84	24.08	24.18
1.4	QPSK	3	0	23.89	24.05	24.18
1.4	QPSK	3	1	23.84	24.16	24.23
1.4	QPSK	3	1	23.89	24.16	24.18
1.4	QPSK	6	0	22.95	23.11	23.28
1.4	HQAM	1	0	23.05	23.07	23.46
1.4	HQAM	1	3	23.28	23.46	23.53
1.4	HQAM	1	5	23.21	23.33	23.45
1.4	HQAM	3	0	22.03	22.10	22.38
1.4	HQAM	3	1	23.01	23.23	23.28
1.4	HQAM	3	3	22.98	23.15	23.23
1.4	HQAM	1	0	22.04	22.18	22.33
1.4	HQAM	1	0	22.11	22.20	22.20
1.4	HQAM	1	3	22.07	22.40	22.12
1.4	HQAM	3	0	22.07	22.31	22.10
1.4	HQAM	3	0	22.05	22.19	22.19
1.4	HQAM	3	1	22.10	22.34	22.28
1.4	HQAM	3	1	22.07	22.30	22.15
1.4	SRQAM	1	0	21.03	21.09	21.18
1.4	SRQAM	1	0	19.78	19.51	19.60
1.4	SRQAM	1	5	19.78	19.65	19.82
1.4	SRQAM	1	0	19.86	19.54	19.62
1.4	SRQAM	3	1	19.58	19.80	19.87
1.4	SRQAM	3	3	19.82	19.87	19.78
1.4	SRQAM	6	0	19.97	19.54	19.68



Band 5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel				2040	2055	2070			
Frequency (MHz)				830	835.5	844			
10	QPSK	1	0	2448	2454	2463			
10	QPSK	1	26	2448	2452	2450			25.7
10	QPSK	1	49	2458	2448	2443			
10	QPSK	26	0	2358	2344	2342			
10	QPSK	26	12	2369	2365	2362			24.7
10	QPSK	26	25	2363	2367	2362			
10	QPSK	26	0	2327	2344	2330			
10	QPSK	1	0	2388	2389	2384			
10	HQAM	1	25	2330	2333	2331			24.7
10	HQAM	1	49	2355	2350	2341			
10	HQAM	26	0	2257	2252	2259			
10	HQAM	26	12	2258	2254	2257			23.7
10	HQAM	26	25	2264	2263	2256			
10	HQAM	26	0	2228	2232	2228			
10	HQAM	1	0	2244	2276	2276			
10	HQAM	1	26	2252	2257	2252			23.7
10	HQAM	1	49	2282	2281	2278			
10	HQAM	26	0	2162	2166	2164			
10	HQAM	26	12	2171	2169	2167			22.7
10	HQAM	26	25	2186	2170	2157			
10	HQAM	26	0	2120	2166	2162			
10	SSBQAM	1	0	1940	1933	1932			20.7
10	SSBQAM	1	26	1944	1945	1944			
10	SSBQAM	1	49	1952	1948	1937			
10	SSBQAM	26	0	1941	1941	1943			
10	SSBQAM	26	12	1944	1929	1935			20.7
10	SSBQAM	26	25	1934	1938	1938			
10	SSBQAM	26	0	1944	1937	1938			
Channel				826.5	835.5	840.5			Turn-up (dBm)
Frequency (MHz)				826.5	835.5	840.5			
5	QPSK	1	0	2454	2452	2448			
5	QPSK	1	24	2455	2453	2448			25.7
5	QPSK	1	24	2446	2448	2448			
5	QPSK	12	0	2359	2370	2381			
5	QPSK	12	6	2368	2367	2355			24.7
5	QPSK	12	13	2380	2385	2384			
5	QPSK	26	0	2363	2369	2355			
5	HQAM	1	0	2369	2355	2359			
5	HQAM	1	12	2369	2355	2383			24.7
5	HQAM	1	24	2369	2361	2378			
5	HQAM	12	0	2284	2272	2281			
5	HQAM	12	7	2288	2259	2258			23.7
5	HQAM	12	13	2281	2287	2287			
5	HQAM	26	0	2259	2271	2258			
5	HQAM	1	0	2281	2290	2282			
5	HQAM	1	0	2283	2286	2287			23.7
5	HQAM	1	24	2282	2286	2282			
5	HQAM	12	0	2189	2175	2187			
5	HQAM	12	7	2173	2175	2141			22.7
5	HQAM	12	13	2188	2170	2122			
5	HQAM	26	0	2189	2174	2145			
5	SSBQAM	1	0	1933	1948	1944			20.7
5	SSBQAM	1	12	1940	1941	1941			
5	SSBQAM	1	24	1935	1945	1934			
5	SSBQAM	12	0	1935	1932	1943			
5	SSBQAM	12	7	1937	1928	1930			20.7
5	SSBQAM	12	13	1933	1938	1938			
5	SSBQAM	26	0	1934	1937	1933			
Channel				20415	20525	20635			Turn-up (dBm)
Frequency (MHz)				20415	20525	20635			
3	QPSK	1	0	2380	2387	2385			
3	QPSK	1	8	2387	2394	2383			25.7
3	QPSK	8	0	2378	2383	2371			
3	QPSK	8	0	2289	2293	2287			24.7
3	QPSK	8	4	2255	2251	2287			
3	QPSK	8	0	2288	2293	2283			
3	QPSK	16	0	2250	2257	2286			
3	HQAM	1	0	2313	2317	2311			24.7
3	HQAM	1	8	2315	2320	2313			
3	HQAM	1	14	2311	2318	2303			
3	HQAM	8	0	2156	2200	2184			
3	HQAM	8	4	2198	2206	2196			23.7
3	HQAM	8	7	2156	2198	2187			
3	HQAM	16	0	2106	2201	2180			
3	HQAM	1	0	2103	2215	2190			23.7
3	HQAM	1	8	2313	2221	2171			
3	HQAM	1	14	2302	2259	2170			
3	HQAM	8	0	2190	2180	2078			
3	HQAM	8	4	2194	2103	2178			22.7
3	HQAM	8	7	2189	2098	2171			
3	HQAM	16	0	2192	2098	2172			
3	SSBQAM	1	0	1945	1945	1946			20.7
3	SSBQAM	1	8	1938	1939	1944			
3	SSBQAM	1	14	1948	1947	1929			
3	SSBQAM	8	0	1938	1941	1935			
3	SSBQAM	8	4	1935	1919	1927			20.7
3	SSBQAM	8	7	1933	1933	1920			
3	SSBQAM	16	0	1938	1938	1931			
Channel				20407	20525	20643			Turn-up (dBm)
Frequency (MHz)				20407	20525	20643			
1.4	QPSK	1	0	2311	2319	2320			
1.4	QPSK	1	3	2380	2386	2376			25.7
1.4	QPSK	1	5	2370	2380	2371			
1.4	QPSK	3	0	2389	2380	2375			
1.4	QPSK	3	1	2383	2380	2380			
1.4	QPSK	3	3	2378	2381	2372			24.7
1.4	QPSK	6	0	2283	2291	2277			
1.4	HQAM	1	0	2305	2311	2307			
1.4	HQAM	1	5	2314	2321	2312			24.7
1.4	HQAM	1	5	2307	2312	2300			
1.4	HQAM	3	0	2289	2289	2282			
1.4	HQAM	3	1	2293	2290	2285			
1.4	HQAM	3	1	2283	2291	2278			23.7
1.4	HQAM	6	0	2191	2199	2186			
1.4	HQAM	1	0	2108	2204	2172			
1.4	HQAM	1	3	2210	2215	2178			
1.4	HQAM	1	6	2200	2204	2172			23.7
1.4	HQAM	3	0	2199	2197	2173			
1.4	HQAM	3	1	2194	2200	2173			
1.4	HQAM	3	1	2189	2183	2173			
1.4	HQAM	6	0	2078	2084	2071			22.7
1.4	SSBQAM	1	0	1940	1948	1947			
1.4	SSBQAM	1	3	1937	1941	1941			20.7
1.4	SSBQAM	1	5	1947	1947	1927			
1.4	SSBQAM	3	0	1931	1939	1938			
1.4	SSBQAM	3	0	1944	1938	1938			
1.4	SSBQAM	3	1	1927	1938	1923			
1.4	SSBQAM	6	0	1938	1938	1930			20.7



Band 7_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (min)
Channel							
Frequency (MHz)				2500	2505	2560	
20	QPSK	1	0	2460	2464	2468	25.7
20	QPSK	1	49	2467	2471	2475	
20	QPSK	1	99	2471	2475	2479	
20	QPSK	61	0	2378	2378	2378	24.7
20	QPSK	50	24	2388	2384	2380	
20	QPSK	50	50	2389	2394	2399	
20	QPSK	100	0	2388	2384	2378	24.7
20	HQAM	1	0	2388	2401	2388	
20	HQAM	1	49	2405	2407	2406	
20	HQAM	1	99	2405	2415	2403	23.7
20	HQAM	50	0	2277	2281	2277	
20	HQAM	50	24	2286	2286	2283	
20	HQAM	50	50	2293	2298	2292	23.7
20	HQAM	100	0	2288	2283	2278	
20	HQAM	1	0	2281	2285	2281	
20	HQAM	1	49	2293	2295	2277	22.7
20	HQAM	1	99	2300	2306	2278	
20	HQAM	50	0	2188	2184	2178	
20	HQAM	50	24	2193	2189	2177	22.7
20	HQAM	50	50	2193	2196	2187	
20	HQAM	100	0	2192	2184	2182	
20	256QAM	1	0	2022	2038	1988	20.7
20	256QAM	1	49	2033	2038	2037	
20	256QAM	1	99	2034	2038	2011	
20	256QAM	50	0	2003	2001	1994	20.7
20	256QAM	50	24	2012	2007	1995	
20	256QAM	50	50	2012	2000	2003	
20	256QAM	100	0	2013	1999	1993	
Channel							
Frequency (MHz)				2507.5	2505	2562.5	
15	QPSK	1	0	2454	2459	2458	25.7
15	QPSK	1	49	2458	2472	2484	
15	QPSK	1	74	2463	2470	2463	
15	QPSK	30	0	2372	2376	2385	24.7
15	QPSK	30	20	2378	2384	2371	
15	QPSK	30	39	2384	2385	2385	
15	QPSK	75	0	2378	2379	2374	24.7
15	HQAM	1	37	2400	2405	2388	
15	HQAM	1	74	2398	2407	2383	
15	HQAM	30	0	2275	2279	2274	23.7
15	HQAM	30	20	2283	2279	2282	
15	HQAM	30	39	2283	2285	2282	
15	HQAM	75	0	2278	2278	2272	23.7
15	HQAM	1	0	2277	2284	2285	
15	HQAM	1	74	2283	2286	2288	
15	HQAM	1	74	2295	2304	2299	22.7
15	HQAM	30	0	2180	2183	2175	
15	HQAM	30	20	2190	2188	2177	
15	HQAM	30	39	2190	2191	2185	20.7
15	HQAM	75	0	2184	2179	2176	
15	256QAM	1	0	2000	2003	1998	
15	256QAM	1	37	2030	2005	2005	20.7
15	256QAM	30	74	2016	2011	2005	
15	256QAM	30	0	1955	1955	1958	
15	256QAM	30	20	2007	1999	1985	20.7
15	256QAM	30	39	2007	1996	2000	
15	256QAM	75	0	2008	1994	1995	
Channel							
Frequency (MHz)				2500	2100	2160	
10	QPSK	1	0	2458	2464	2457	25.7
10	QPSK	1	25	2458	2470	2462	
10	QPSK	1	49	2462	2473	2471	
10	QPSK	25	0	2373	2386	2375	24.7
10	QPSK	25	12	2381	2374	2380	
10	QPSK	25	26	2387	2388	2380	
10	QPSK	50	0	2376	2379	2375	24.7
10	HQAM	1	0	2394	2401	2394	
10	HQAM	1	25	2398	2404	2399	
10	HQAM	1	49	2405	2407	2395	23.7
10	HQAM	25	0	2276	2286	2275	
10	HQAM	25	12	2287	2276	2282	
10	HQAM	25	26	2285	2296	2287	23.7
10	HQAM	50	0	2284	2280	2280	
10	HQAM	1	0	2274	2277	2284	
10	HQAM	1	25	2283	2295	2274	22.7
10	HQAM	1	49	2295	2299	2292	
10	HQAM	25	0	2178	2174	2178	
10	HQAM	25	12	2185	2186	2170	22.7
10	HQAM	25	26	2193	2189	2186	
10	HQAM	50	0	2184	2178	2172	
10	256QAM	1	0	2017	1998	2007	20.7
10	256QAM	1	25	2023	2007	2001	
10	256QAM	1	49	2014	2010	2004	
10	256QAM	25	0	1993	2001	1994	20.7
10	256QAM	25	12	2008	2000	1995	
10	256QAM	25	26	2010	1990	1997	
10	256QAM	50	0	2003	1999	1992	
Channel							
Frequency (MHz)				2075	2100	2165	
5	QPSK	1	0	2454	2452	2451	25.7
5	QPSK	1	12	2459	2465	2467	
5	QPSK	1	24	2468	2472	2469	
5	QPSK	10	0	2370	2370	2371	24.7
5	QPSK	12	7	2381	2374	2370	
5	QPSK	12	13	2383	2383	2380	
5	QPSK	25	0	2378	2384	2370	24.7
5	HQAM	1	0	2394	2398	2397	
5	HQAM	1	12	2397	2405	2405	
5	HQAM	1	24	2400	2411	2403	23.7
5	HQAM	12	0	2288	2271	2271	
5	HQAM	12	13	2281	2286	2281	
5	HQAM	12	13	2289	2293	2284	23.7
5	HQAM	25	0	2286	2277	2273	
5	HQAM	1	0	2278	2277	2283	
5	HQAM	1	12	2284	2289	2273	22.7
5	HQAM	11	24	2297	2305	2278	
5	HQAM	12	0	2178	2182	2174	
5	HQAM	12	7	2187	2186	2171	22.7
5	HQAM	12	13	2184	2188	2187	
5	HQAM	25	0	2152	2175	2176	
5	256QAM	1	0	2016	2002	1993	20.7
5	256QAM	1	12	2025	2000	2005	
5	256QAM	1	24	2018	2011	2003	
5	256QAM	12	0	2000	1998	1991	20.7
5	256QAM	12	13	2007	2007	1988	
5	256QAM	12	13	2009	1998	1999	
5	256QAM	25	0	2006	1992	1983	



Band 12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2464	2463	2469	25.7
10	QPSK	1	26	2459	2460	2462	
10	QPSK	1	49	2467	2463	2460	24.7
10	QPSK	25	0	2372	2374	2371	
10	QPSK	25	12	2378	2373	2372	24.7
10	QPSK	25	25	2377	2379	2380	
10	QPSK	50	0	2378	2371	2373	24.7
10	QPSK	1	0	2386	2385	2387	
10	HQAM	1	25	2387	2389	2401	23.7
10	HQAM	1	49	2408	2401	2404	
10	HQAM	25	0	2271	2273	2274	23.7
10	HQAM	25	12	2276	2273	2275	
10	HQAM	25	25	2272	2280	2277	23.7
10	HQAM	50	0	2275	2272	2274	
10	HQAM	1	0	2281	2280	2283	23.7
10	HQAM	1	26	2288	2282	2286	
10	HQAM	1	49	2298	2291	2294	22.7
10	HQAM	25	0	2178	2174	2176	
10	HQAM	25	12	2184	2177	2178	22.7
10	HQAM	25	25	2179	2181	2180	
10	HQAM	50	0	2182	2177	2177	20.7
10	HQAM	1	0	1942	1954	1950	
10	SSBQAM	1	25	1958	1957	1958	20.7
10	SSBQAM	1	49	1952	1948	1944	
10	SSBQAM	25	0	1952	1954	1955	20.7
10	SSBQAM	25	12	1946	1948	1945	
10	SSBQAM	25	25	1942	1947	1955	20.7
10	SSBQAM	50	0	1943	1951	1951	
Channel							
Frequency (MHz)							
5	QPSK	1	0	2465	2466	2480	25.7
5	QPSK	1	24	2465	2460	2460	
5	QPSK	1	24	2484	2465	2464	24.7
5	QPSK	12	0	2375	2373	2373	
5	QPSK	12	12	2378	2380	2370	24.7
5	QPSK	12	12	2370	2374	2372	
5	QPSK	25	0	2373	2371	2371	24.7
5	HQAM	1	0	2388	2389	2387	
5	HQAM	1	12	2401	2401	2389	23.7
5	HQAM	1	24	2402	2401	2387	
5	HQAM	12	0	2283	2278	2278	23.7
5	HQAM	12	7	2278	2280	2274	
5	HQAM	12	12	2275	2275	2275	23.7
5	HQAM	25	0	2278	2271	2270	
5	HQAM	1	0	2298	2295	2288	23.7
5	HQAM	1	24	2292	2293	2294	
5	HQAM	1	24	2296	2298	2292	22.7
5	HQAM	12	0	2188	2182	2182	
5	HQAM	12	7	2183	2183	2178	22.7
5	HQAM	12	12	2178	2180	2177	
5	HQAM	25	0	2178	2174	2174	20.7
5	SSBQAM	1	0	1948	1948	1948	
5	SSBQAM	1	12	1949	1949	1952	20.7
5	SSBQAM	1	24	1942	1948	1948	
5	SSBQAM	12	7	1951	1948	1942	20.7
5	SSBQAM	12	12	1948	1937	1944	
5	SSBQAM	25	0	1953	1949	1948	20.7
5	SSBQAM	1	0	2305	2305	2305	
Channel							
Frequency (MHz)							
3	QPSK	1	0	2392	2388	2386	25.7
3	QPSK	1	8	2392	2395	2393	
3	QPSK	8	0	2385	2390	2384	24.7
3	QPSK	8	4	2298	2297	2294	
3	QPSK	8	4	2298	2300	2297	24.7
3	QPSK	16	0	2298	2292	2292	
3	HQAM	1	0	2308	2310	2302	24.7
3	HQAM	1	8	2311	2311	2309	
3	HQAM	1	14	2318	2322	2319	23.7
3	HQAM	8	4	2298	2301	2300	
3	HQAM	8	4	2299	2298	2294	23.7
3	HQAM	8	7	2290	2298	2198	
3	HQAM	16	0	2201	2205	2194	23.7
3	HQAM	1	0	2221	2214	2214	
3	HQAM	1	8	2224	2223	2220	22.7
3	HQAM	8	0	2183	2183	2086	
3	HQAM	8	4	2188	2187	2184	22.7
3	HQAM	8	7	2099	2102	2099	
3	HQAM	16	0	2100	2095	2093	20.7
3	SSBQAM	1	0	1948	1948	1948	
3	SSBQAM	1	14	1948	1947	1948	20.7
3	SSBQAM	8	4	1953	1948	1939	
3	SSBQAM	8	7	1945	1937	1933	20.7
3	SSBQAM	16	0	1941	1944	1942	
Channel							
Frequency (MHz)							
1.4	QPSK	1	0	2373	2374	2373	25.7
1.4	QPSK	1	3	2378	2380	2380	
1.4	QPSK	1	5	2372	2373	2371	24.7
1.4	QPSK	3	1	2384	2378	2379	
1.4	QPSK	3	3	2374	2378	2374	24.7
1.4	QPSK	6	0	2283	2284	2281	
1.4	HQAM	1	0	2308	2307	2309	24.7
1.4	HQAM	1	5	2312	2314	2310	
1.4	HQAM	1	5	2308	2305	2303	23.7
1.4	HQAM	3	0	2289	2284	2288	
1.4	HQAM	3	1	2284	2286	2280	23.7
1.4	HQAM	3	1	2284	2283	2282	
1.4	HQAM	6	0	2188	2190	2186	23.7
1.4	HQAM	1	0	2201	2198	2199	
1.4	HQAM	1	3	2286	2289	2283	23.7
1.4	HQAM	1	6	2283	2282	2197	
1.4	HQAM	3	0	2198	2194	2198	22.7
1.4	HQAM	3	1	2202	2197	2200	
1.4	HQAM	3	1	2198	2195	2195	22.7
1.4	HQAM	6	0	2098	2098	2093	
1.4	SSBQAM	1	0	1938	1948	1942	20.7
1.4	SSBQAM	1	3	1947	1954	1956	
1.4	SSBQAM	1	5	1958	1957	1958	20.7
1.4	SSBQAM	3	0	1942	1945	1951	
1.4	SSBQAM	3	1	1958	1941	1938	20.7
1.4	SSBQAM	3	1	1939	1944	1952	
1.4	SSBQAM	6	0	1947	1948	1950	20.7



Band 13_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Time-up limit (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.98			25.2
10	QPSK	1	49	24.02			
10	QPSK	1	49	24.10			
10	QPSK	25	0	23.16			24.2
10	QPSK	25	12	23.17			
10	QPSK	25	25	23.19			
10	QPSK	50	0	23.18			24.2
10	16QAM	1	0	23.38			
10	16QAM	1	25	23.37			
10	16QAM	1	49	23.40			23.2
10	16QAM	25	0	22.17			
10	16QAM	25	12	22.20			
10	16QAM	25	25	22.22			23.2
10	16QAM	50	0	22.19			
10	16QAM	1	0	22.21			
10	16QAM	1	25	22.32			22.2
10	16QAM	1	49	22.34			
10	16QAM	25	0	21.17			
10	16QAM	25	12	21.24			22.2
10	16QAM	25	25	21.23			
10	16QAM	50	0	21.23			
10	256QAM	1	0	18.81			20.2
10	256QAM	1	25	18.97			
10	256QAM	1	49	18.91			
10	256QAM	25	0	18.78			20.2
10	256QAM	25	12	18.86			
10	256QAM	25	25	18.89			
10	256QAM	50	0	18.84			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.93	23.98	23.74	25.2
5	QPSK	1	49	24.04	24.07	23.77	
5	QPSK	1	24	24.07	24.08	23.83	
5	QPSK	12	0	23.10	23.13	22.85	24.2
5	QPSK	12	12	23.18	23.15	22.93	
5	QPSK	12	13	23.19	23.21	22.89	
5	QPSK	25	0	23.18	23.14	22.90	24.2
5	16QAM	1	0	23.31	23.29	23.01	
5	16QAM	1	12	23.29	23.33	23.04	
5	16QAM	1	24	23.37	23.38	23.04	23.2
5	16QAM	12	0	22.20	22.17	21.92	
5	16QAM	12	7	22.20	22.17	21.95	
5	16QAM	12	13	22.21	22.22	21.94	23.2
5	16QAM	25	0	22.23	22.16	21.92	
5	16QAM	1	0	22.19	22.28	21.94	
5	16QAM	1	49	22.25	22.20	22.01	23.2
5	16QAM	1	24	22.29	22.32	22.02	
5	16QAM	12	0	21.22	21.23	20.96	
5	16QAM	12	7	21.28	21.21	20.98	22.2
5	16QAM	12	13	21.25	21.26	20.95	
5	16QAM	25	0	21.36	21.17	20.96	
5	256QAM	1	0	18.55	18.57	18.59	20.2
5	256QAM	1	12	18.93	18.96	18.94	
5	256QAM	1	24	18.96	18.99	18.96	
5	256QAM	12	7	18.83	18.78	18.79	20.2
5	256QAM	12	13	18.82	18.84	18.79	
5	256QAM	25	0	18.77	18.77	18.74	



Band 14_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2459	2459	
10	QPSK	1	25	2453	2453	
10	QPSK	1	49	2448	2448	25.7
10	QPSK	25	0	2355	2355	
10	QPSK	25	12	2357	2357	
10	QPSK	25	25	2353	2353	24.7
10	QPSK	50	0	2355	2355	
10	HQAM	1	0	2395	2395	
10	HQAM	1	25	2391	2391	24.7
10	HQAM	1	49	2386	2386	
10	HQAM	25	0	2254	2254	
10	HQAM	25	12	2257	2257	
10	HQAM	25	25	2254	2254	23.7
10	HQAM	50	0	2255	2255	
10	HQAM	1	0	2279	2279	
10	HQAM	1	25	2284	2284	23.7
10	HQAM	1	49	2279	2279	
10	HQAM	25	0	2158	2158	
10	HQAM	25	12	2161	2161	
10	HQAM	25	25	2158	2158	22.7
10	HQAM	50	0	2159	2159	
10	256QAM	1	0	1953	1953	
10	256QAM	1	25	1957	1957	20.7
10	256QAM	1	49	1955	1955	
10	256QAM	25	0	1929	1929	
10	256QAM	25	12	1934	1934	
10	256QAM	25	25	1933	1933	20.7
10	256QAM	50	0	1925	1925	
Channel						
Frequency (MHz)						
5	QPSK	1	0	2448	2448	24.45
5	QPSK	1	24	2456	2453	24.55
5	QPSK	1	24	2455	2455	24.48
5	QPSK	12	0	2362	2354	23.51
5	QPSK	12	12	2368	2368	23.60
5	QPSK	12	12	2361	2360	23.56
5	QPSK	25	0	2359	2354	23.52
5	HQAM	1	0	2382	2382	23.79
5	HQAM	1	12	2390	2392	23.86
5	HQAM	1	24	2388	2388	23.79
5	HQAM	12	0	2284	2281	22.83
5	HQAM	12	7	2288	2289	22.88
5	HQAM	12	13	2285	2283	22.84
5	HQAM	25	0	2282	2258	22.58
5	HQAM	1	0	2281	2277	22.77
5	HQAM	1	24	2283	2285	22.84
5	HQAM	1	24	2282	2282	22.82
5	HQAM	12	0	2171	2160	21.58
5	HQAM	12	7	2169	2170	21.68
5	HQAM	12	13	2163	2166	21.61
5	HQAM	25	0	2165	2161	21.54
5	256QAM	1	0	1947	1949	19.53
5	256QAM	1	12	1931	1933	19.28
5	256QAM	1	24	1946	1946	19.42
5	256QAM	12	0	1919	1927	19.27
5	256QAM	12	7	1928	1928	19.34
5	256QAM	12	13	1933	1935	19.33
5	256QAM	25	0	1921	1919	19.15



Band 17_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)
Channel				700	710	711	
Frequency (MHz)				2470	2490	2500	
10	QPSK	1	0	2458	2458	2453	
10	QPSK	1	25	2458	2464	2460	25.7
10	QPSK	1	49	2462	2466	2462	
10	QPSK	25	0	2384	2386	2385	
10	QPSK	25	12	2378	2373	2371	24.7
10	QPSK	25	25	2380	2379	2380	
10	QPSK	50	0	2389	2372	2389	
10	HQAM	1	0	2390	2392	2391	24.7
10	HQAM	1	25	2401	2401	2400	
10	HQAM	1	49	2401	2402	2402	
10	HQAM	25	0	2265	2264	2264	
10	HQAM	25	12	2278	2271	2271	23.7
10	HQAM	25	25	2277	2281	2276	
10	HQAM	50	0	2269	2270	2267	
10	HQAM	1	0	2286	2276	2274	23.7
10	HQAM	1	25	2252	2257	2250	
10	HQAM	1	49	2252	2258	2263	
10	HQAM	25	0	2167	2167	2167	
10	HQAM	25	12	2184	2178	2178	22.7
10	HQAM	25	25	2180	2182	2182	
10	HQAM	50	0	2170	2171	2171	
10	256QAM	1	0	1944	1937	1933	20.7
10	256QAM	1	25	1950	1948	1951	
10	256QAM	1	49	1958	1950	1958	
10	256QAM	25	0	1946	1944	1946	
10	256QAM	25	12	1956	1952	1943	20.7
10	256QAM	25	25	1958	1954	1952	
10	256QAM	50	0	1948	1948	1948	
Channel				2515	2520	2525	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	2457	2456	2455	
5	QPSK	1	12	2460	2461	2463	25.7
5	QPSK	1	24	2464	2461	2464	
5	QPSK	12	0	2387	2389	2386	
5	QPSK	12	12	2378	2374	2389	24.7
5	QPSK	12	13	2377	2376	2373	
5	QPSK	25	0	2375	2375	2365	
5	HQAM	1	0	2391	2393	2391	
5	HQAM	1	12	2397	2403	2398	24.7
5	HQAM	1	24	2408	2404	2401	
5	HQAM	12	0	2270	2272	2272	
5	HQAM	12	7	2278	2274	2273	23.7
5	HQAM	12	13	2278	2277	2274	
5	HQAM	25	0	2274	2275	2269	
5	HQAM	1	0	2289	2287	2288	
5	HQAM	1	12	2290	2296	2290	23.7
5	HQAM	1	24	2294	2300	2293	
5	HQAM	12	0	2173	2177	2178	
5	HQAM	12	7	2181	2179	2173	22.7
5	HQAM	12	13	2179	2185	2175	
5	HQAM	25	0	2179	2174	2170	
5	256QAM	1	0	1941	1929	1924	20.7
5	256QAM	1	12	1949	1946	1944	
5	256QAM	1	24	1946	1950	1946	
5	256QAM	12	0	1939	1934	1941	
5	256QAM	12	7	1938	1947	1940	20.7
5	256QAM	12	13	1933	1934	1932	
5	256QAM	25	0	1937	1941	1945	



Band 30_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2315			24.2
10	QPSK	1	25	2309			
10	QPSK	1	49	2302			
10	QPSK	25	0	2208			23.2
10	QPSK	25	12	2216			
10	QPSK	25	25	2218			
10	QPSK	50	0	2214			23.2
10	HQAM	1	0	2244			
10	HQAM	1	25	2248			
10	HQAM	1	49	2241			22.2
10	HQAM	25	0	2108			
10	HQAM	25	12	2114			
10	HQAM	25	25	2117			22.2
10	HQAM	50	0	2114			
10	HQAM	1	0	2109			
10	HQAM	1	25	2109			21.2
10	HQAM	1	49	2127			
10	HQAM	25	0	2012			
10	HQAM	25	12	2020			21.2
10	HQAM	25	25	2020			
10	HQAM	50	0	2018			
10	256QAM	1	0	1880			19.2
10	256QAM	1	25	1894			
10	256QAM	1	49	1891			
10	256QAM	25	0	1878			19.2
10	256QAM	25	12	1873			
10	256QAM	25	25	1875			
10	256QAM	50	0	1877			
Channel							
Frequency (MHz)							
5	QPSK	1	0	2307.5	2310	2312.5	24.2
5	QPSK	1	0	2297	2301	2305	
5	QPSK	1	25	2314	2314	2312	
5	QPSK	1	24	2313	2313	2306	23.2
5	QPSK	12	0	2210	2212	2216	
5	QPSK	12	13	2222	2217	2219	
5	QPSK	25	0	2218	2214	2219	23.2
5	HQAM	1	0	2232	2234	2230	
5	HQAM	1	12	2242	2240	2238	
5	HQAM	1	24	2244	2240	2236	22.2
5	HQAM	12	0	2115	2114	2119	
5	HQAM	12	7	2124	2120	2122	
5	HQAM	12	13	2125	2116	2122	22.2
5	HQAM	25	0	2121	2116	2120	
5	HQAM	1	0	2128	2132	2134	
5	HQAM	1	25	2132	2136	2133	22.2
5	HQAM	1	24	2138	2136	2131	
5	HQAM	12	0	2017	2021	2020	
5	HQAM	12	7	2020	2023	2026	21.2
5	HQAM	12	13	2030	2025	2024	
5	HQAM	25	0	2025	2017	2020	
5	256QAM	1	0	1875	1876	1877	19.2
5	256QAM	1	12	1887	1890	1885	
5	256QAM	1	24	1896	1890	1887	
5	256QAM	12	7	1883	1872	1884	19.2
5	256QAM	12	13	1885	1875	1871	
5	256QAM	25	0	1875	1872	1870	



Band 71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dB)		
Channel				693	693	693			
Frequency (MHz)				13029	13029	13029			
20	QPSK	1	0	2466	2467	2462	25.7		
20	QPSK	1	49	2458	2453	2451			
20	QPSK	1	99	2451	2453	2450			
20	QPSK	60	0	2366	2366	2358	24.7		
20	QPSK	50	24	2371	2361	2361			
20	QPSK	50	50	2370	2364	2363			
20	HQAM	1	0	2320	2320	2318	24.7		
20	HQAM	1	49	2320	2320	2318			
20	HQAM	1	99	2319	2318	2318			
20	HQAM	50	0	2270	2268	2267	23.7		
20	HQAM	50	24	2273	2265	2261			
20	HQAM	50	50	2270	2268	2264			
20	HQAM	100	0	2270	2262	2259	23.7		
20	HQAM	1	49	2264	2265	2274			
20	HQAM	1	99	2261	2259	2271			
20	HQAM	1	99	2278	2277	2278	22.7		
20	HQAM	50	0	2128	2127	2121			
20	HQAM	50	24	2123	2125	2125			
20	HQAM	50	50	2121	2126	2125	20.7		
20	HQAM	100	0	2124	2122	2122			
20	HQAM	1	0	1958	1950	1937			
20	HQAM	1	49	1941	1936	1939	20.7		
20	HQAM	1	99	1945	1935	1935			
20	HQAM	50	0	1941	1947	1944			
20	HQAM	50	24	1945	1944	1938	20.7		
20	HQAM	50	50	1940	1938	1939			
20	HQAM	100	0	1943	1943	1932			
Channel				670.5	670.5	670.5	Turn-up (dB)		
Frequency (MHz)				2464	2457	2453			
15	QPSK	1	0	2466	2453	2452	25.7		
15	QPSK	1	74	2453	2458	2453			
15	QPSK	30	0	2368	2364	2360		24.7	
15	QPSK	30	20	2371	2368	2369			
15	QPSK	30	39	2384	2383	2381			
15	QPSK	75	0	2372	2369	2366	24.7		
15	HQAM	1	0	2401	2393	2394			
15	HQAM	1	39	2384	2390	2388			
15	HQAM	1	74	2362	2362	2364	23.7		
15	HQAM	30	0	2288	2284	2282			
15	HQAM	30	20	2271	2269	2268			
15	HQAM	30	39	2264	2262	2263	23.7		
15	HQAM	75	0	2273	2269	2267			
15	HQAM	1	0	2247	2279	2275		23.7	
15	HQAM	1	74	2275	2283	2277			
15	HQAM	30	0	2148	2160	2163	22.7		
15	HQAM	30	20	2152	2171	2171			
15	HQAM	30	39	2168	2185	2185			
15	HQAM	75	0	2170	2170	2188	20.7		
15	HQAM	1	0	1949	1952	1937			
15	HQAM	1	39	1933	1928	1932			
15	HQAM	1	74	1946	1946	1936	20.7		
15	HQAM	30	0	1935	1941	1937			
15	HQAM	30	20	1932	1943	1930			
15	HQAM	30	39	1938	1938	1935	20.7		
15	HQAM	75	0	1938	1938	1931			
Channel				13112	13029	13042		Turn-up (dB)	
Frequency (MHz)				692.5	692.5	692.5			
10	QPSK	1	0	2452	2457	2449	25.7		
10	QPSK	1	25	2455	2445	2450			
10	QPSK	1	49	2452	2451	2445			
10	QPSK	25	0	2372	2358	2353	24.7		
10	QPSK	25	12	2371	2358	2359			
10	QPSK	25	25	2366	2352	2361			
10	QPSK	50	0	2371	2365	2356	24.7		
10	HQAM	1	0	2455	2451	2454			
10	HQAM	1	25	2455	2366	2369			
10	HQAM	1	49	2368	2350	2363	23.7		
10	HQAM	25	0	2372	2356	2354			
10	HQAM	25	12	2271	2257	2254			
10	HQAM	25	25	2264	2260	2261	23.7		
10	HQAM	50	0	2271	2263	2254			
10	HQAM	1	0	2254	2278	2273		23.7	
10	HQAM	1	25	2258	2270	2260			
10	HQAM	1	49	2266	2281	2271			
10	HQAM	25	0	2132	2159	2165	22.7		
10	HQAM	25	12	2133	2160	2162			
10	HQAM	25	25	2128	2165	2164			
10	HQAM	50	0	2141	2168	2157	20.7		
10	HQAM	1	0	1955	1957	1936			
10	HQAM	1	25	1938	1928	1934			
10	HQAM	1	49	1937	1945	1935	20.7		
10	HQAM	25	0	1934	1942	1937			
10	HQAM	25	12	1932	1935	1932			
10	HQAM	25	25	1940	1928	1928	20.7		
10	HQAM	50	0	1938	1933	1922			
Channel				13147	13047	13047		Turn-up (dB)	
Frequency (MHz)				692.5	692.5	692.5			
5	QPSK	1	0	2463	2457	2453	25.7		
5	QPSK	1	12	2461	2454	2456			
5	QPSK	1	24	2458	2454	2447			
5	QPSK	10	0	2379	2353	2344	24.7		
5	QPSK	12	7	2373	2354	2370			
5	QPSK	12	13	2368	2360	2361			
5	QPSK	24	0	2370	2364	2359	24.7		
5	HQAM	1	0	2402	2392	2389			
5	HQAM	1	12	2355	2350	2368			
5	HQAM	1	24	2369	2368	2383	23.7		
5	HQAM	12	0	2282	2268	2288			
5	HQAM	12	13	2278	2268	2270			
5	HQAM	12	13	2269	2261	2261	23.7		
5	HQAM	25	0	2273	2265	2262			
5	HQAM	1	0	2223	2250	2279		23.7	
5	HQAM	1	12	2248	2285	2281			
5	HQAM	11	24	2247	2283	2278	22.7		
5	HQAM	10	0	2134	2170	2171			
5	HQAM	12	7	2149	2170	2173		22.7	
5	HQAM	12	13	2168	2164	2163			
5	HQAM	25	0	2131	2167	2162			
5	HQAM	1	0	1955	1952	1931	20.7		
5	HQAM	1	12	1937	1928	1936			
5	HQAM	1	24	1938	1947	1935			
5	HQAM	12	0	1935	1945	1934	20.7		
5	HQAM	12	13	1937	1938	1932			
5	HQAM	12	13	1936	1936	1920			
5	HQAM	25	0	1937	1935	1931	20.7		



Band 5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)		
Channel									
Frequency (MHz)									
ISD									
10	QPSK	1	0	2347	2347	2348	25		
10	QPSK	1	25	2351	2356	2353			
10	QPSK	1	49	2358	2353	2345			
10	QPSK	25	0	2263	2266	2263	24		
10	QPSK	25	12	2272	2267	2262			
10	QPSK	25	25	2288	2276	2284			
10	QPSK	50	0	2272	2266	2259	24		
10	16QAM	1	0	2291	2292	2297			
10	16QAM	1	25	2292	2298	2292			
10	16QAM	1	49	2298	2293	2283	23		
10	16QAM	25	0	2159	2165	2158			
10	16QAM	25	12	2171	2167	2163			
10	16QAM	25	25	2168	2171	2162	23		
10	16QAM	50	0	2176	2184	2182			
10	16QAM	1	25	2158	2150	2175			
10	16QAM	1	49	2167	2163	2157	22		
10	16QAM	25	0	2064	2065	2066			
10	16QAM	25	12	2077	2072	2067			
10	16QAM	25	25	2071	2074	2065	20		
10	16QAM	50	0	2073	2069	2066			
10	256QAM	1	0	1848	1853	1858			
10	256QAM	1	25	1853	1850	1851	20		
10	256QAM	1	49	1850	1853	1854			
10	256QAM	25	0	1847	1848	1845			
10	256QAM	25	12	1848	1842	1839	20		
10	256QAM	25	25	1838	1848	1848			
10	256QAM	50	0	1851	1849	1844			
Channel									
Frequency (MHz)									
ISD									
5	QPSK	1	0	2361	2362	2360	25		
5	QPSK	1	25	2366	2363	2362			
5	QPSK	1	24	2357	2359	2353			
5	QPSK	12	0	2263	2273	2265	24		
5	QPSK	12	12	2276	2274	2268			
5	QPSK	12	13	2285	2287	2287			
5	QPSK	25	0	2268	2272	2258	24		
5	16QAM	1	0	2294	2291	2293			
5	16QAM	1	12	2292	2299	2284			
5	16QAM	1	24	2294	2298	2290	23		
5	16QAM	12	0	2187	2175	2187			
5	16QAM	12	7	2171	2177	2181			
5	16QAM	12	13	2166	2169	2156	23		
5	16QAM	25	0	2172	2174	2160			
5	16QAM	1	0	2188	2195	2186			
5	16QAM	1	24	2183	2190	2178	23		
5	16QAM	1	24	2188	2191	2192			
5	16QAM	12	0	2074	2080	2055			
5	16QAM	12	7	2078	2081	2052	22		
5	16QAM	12	13	2071	2075	2028			
5	16QAM	25	0	2073	2076	2033			
5	256QAM	1	0	1838	1838	1838	20		
5	256QAM	1	12	1859	1840	1853			
5	256QAM	1	24	1848	1848	1848			
5	256QAM	12	0	1840	1844	1840	20		
5	256QAM	12	7	1844	1837	1836			
5	256QAM	12	13	1835	1836	1846			
5	256QAM	25	0	1843	1845	1838			
Channel									
Frequency (MHz)									
ISD									
3	QPSK	1	0	2339	2347	2351	25		
3	QPSK	1	8	2349	2353	2348			
3	QPSK	1	16	2351	2351	2345			
3	QPSK	8	0	2285	2288	2288	24		
3	QPSK	8	4	2288	2288	2284			
3	QPSK	8	8	2283	2285	2288			
3	QPSK	16	0	2262	2260	2250	24		
3	16QAM	1	0	2291	2292	2290			
3	16QAM	1	8	2287	2297	2286			
3	16QAM	1	16	2294	2290	2273	23		
3	16QAM	8	4	2166	2169	2167			
3	16QAM	8	8	2184	2162	2163			
3	16QAM	8	7	2161	2166	2157	23		
3	16QAM	16	0	2166	2164	2152			
3	16QAM	1	0	2185	2187	2174			
3	16QAM	1	8	2178	2183	2169	23		
3	16QAM	1	16	2181	2179	2166			
3	16QAM	8	0	2081	2080	2081			
3	16QAM	8	4	2078	2072	2089	22		
3	16QAM	8	7	2083	2072	2041			
3	16QAM	16	0	2085	2059	2059			
3	256QAM	1	0	1848	1847	1849	20		
3	256QAM	1	8	1843	1847	1851			
3	256QAM	1	16	1845	1863	1845			
3	256QAM	8	0	1838	1844	1836	20		
3	256QAM	8	4	1846	1837	1836			
3	256QAM	8	7	1834	1842	1843			
3	256QAM	16	0	1848	1844	1835			
Channel									
Frequency (MHz)									
ISD									
1.4	QPSK	1	0	2345	2352	2343	25		
1.4	QPSK	1	3	2354	2358	2348			
1.4	QPSK	1	5	2347	2351	2339			
1.4	QPSK	3	0	2353	2352	2347	24		
1.4	QPSK	3	1	2357	2352	2350			
1.4	QPSK	3	2	2353	2357	2348			
1.4	QPSK	6	0	2268	2264	2251	24		
1.4	16QAM	1	0	2279	2284	2278			
1.4	16QAM	1	5	2285	2284	2277			
1.4	16QAM	1	5	2282	2288	2272	24		
1.4	16QAM	3	0	2283	2284	2284			
1.4	16QAM	3	1	2286	2275	2280			
1.4	16QAM	3	1	2281	2283	2249	23		
1.4	16QAM	6	0	2184	2171	2158			
1.4	16QAM	1	3	2184	2181	2144			
1.4	16QAM	1	6	2178	2182	2139	23		
1.4	16QAM	3	0	2178	2174	2132			
1.4	16QAM	3	1	2178	2184	2144			
1.4	16QAM	3	1	2173	2175	2147	22		
1.4	16QAM	6	0	2059	2060	2030			
1.4	256QAM	1	0	1846	1860	1851			
1.4	256QAM	1	3	1846	1847	1851	20		
1.4	256QAM	1	5	1842	1853	1854			
1.4	256QAM	3	0	1845	1847	1841			
1.4	256QAM	3	1	1839	1832	1838	20		
1.4	256QAM	3	1	1834	1839	1841			
1.4	256QAM	6	0	1851	1840	1842			



Band 7_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)	Time-down (sec)	
Channel				2560	2836	2960			
Frequency (MHz)									
20	QPSK	1	0	2387	2384	2399	25.5		
20	QPSK	1	49	2393	2390	2404			
20	QPSK	1	99	2399	2406	2420	24.5		
20	QPSK	60	0	2207	2205	2210			
20	QPSK	50	24	2310	2309	2308	24.5		
20	QPSK	50	50	2311	2316	2313			
20	QPSK	100	0	2207	2207	2205	24.5		
20	HQAM	1	0	2327	2330	2329			
20	HQAM	1	49	2329	2338	2338	24.5		
20	HQAM	1	99	2333	2340	2334			
20	HQAM	50	0	2108	2204	2202	23.5		
20	HQAM	50	24	2210	2210	2206			
20	HQAM	50	50	2213	2217	2214	23.5		
20	HQAM	100	0	2208	2207	2203			
20	HQAM	1	0	2204	2211	2210	23.5		
20	HQAM	1	49	2210	2226	2221			
20	HQAM	1	99	2224	2232	2227	22.5		
20	HQAM	60	0	2108	2108	2105			
20	HQAM	50	24	2112	2111	2108	20.5		
20	HQAM	50	50	2115	2121	2115			
20	HQAM	100	0	2112	2105	2107	20.5		
20	SSBQAM	1	0	1920	1927	1913			
20	SSBQAM	1	49	1920	1916	1922	20.5		
20	SSBQAM	1	99	1912	1917	1911			
20	SSBQAM	50	0	1912	1912	1907	20.5		
20	SSBQAM	50	24	1922	1914	1910			
20	SSBQAM	50	50	1917	1916	1913	20.5		
20	SSBQAM	100	0	1923	1911	1905			
Channel				2975	3100	3233			
Frequency (MHz)									
15	QPSK	1	0	2383	2384	2395	25.5		
15	QPSK	1	49	2386	2390	2395			
15	QPSK	1	74	2397	2404	2394	24.5		
15	QPSK	30	0	2205	2208	2200			
15	QPSK	30	20	2208	2204	2204	24.5		
15	QPSK	30	30	2188	2183	2189			
15	QPSK	75	0	2302	2301	2301	24.5		
15	HQAM	1	0	2323	2330	2329			
15	HQAM	1	30	2324	2336	2330	23.5		
15	HQAM	1	74	2331	2334	2324			
15	HQAM	30	0	2188	2204	2201	23.5		
15	HQAM	30	20	2210	2202	2197			
15	HQAM	30	30	2210	2209	2214	23.5		
15	HQAM	75	0	2198	2205	2194			
15	HQAM	1	0	2207	2208	2208	23.5		
15	HQAM	1	74	2208	2220	2219			
15	HQAM	1	74	2214	2225	2217	22.5		
15	HQAM	30	0	2035	2038	2102			
15	HQAM	30	20	2103	2102	2106	22.5		
15	HQAM	30	30	2112	2121	2106			
15	HQAM	75	0	2106	2105	2100	20.5		
15	SSBQAM	1	0	1917	1925	1913			
15	SSBQAM	1	30	1916	1912	1919	20.5		
15	SSBQAM	30	0	1904	1912	1904			
15	SSBQAM	30	20	1914	1905	1905	20.5		
15	SSBQAM	30	30	1915	1914	1908			
15	SSBQAM	75	0	1923	1904	1907	20.5		
15	SSBQAM	75	0	1923	1904	1907			
Channel				2080	2100	2160			
Frequency (MHz)									
10	QPSK	1	0	2389	2392	2399	25.5		
10	QPSK	1	25	2393	2390	2384			
10	QPSK	1	49	2396	2401	2398	24.5		
10	QPSK	25	0	2281	2289	2287			
10	QPSK	25	12	2307	2306	2300	24.5		
10	QPSK	25	25	2303	2309	2303			
10	QPSK	50	0	2259	2306	2301	24.5		
10	HQAM	1	0	2317	2324	2326			
10	HQAM	1	25	2327	2334	2335	24.5		
10	HQAM	1	49	2331	2339	2331			
10	HQAM	25	0	2105	2205	2105	23.5		
10	HQAM	25	12	2207	2208	2206			
10	HQAM	25	25	2208	2210	2207	23.5		
10	HQAM	50	0	2202	2204	2200			
10	HQAM	1	0	2200	2213	2210	23.5		
10	HQAM	1	25	2206	2216	2218			
10	HQAM	1	49	2214	2231	2225	22.5		
10	HQAM	25	0	2081	2102	2086			
10	HQAM	25	12	2104	2104	2102	22.5		
10	HQAM	25	25	2108	2114	2109			
10	HQAM	50	0	2110	2105	2102	20.5		
10	SSBQAM	1	0	1915	1919	1919			
10	SSBQAM	1	25	1920	1907	1922	20.5		
10	SSBQAM	1	49	1918	1909	1903			
10	SSBQAM	25	0	1903	1905	1906	20.5		
10	SSBQAM	25	12	1921	1907	1909			
10	SSBQAM	25	25	1916	1908	1908	20.5		
10	SSBQAM	50	0	1918	1904	1909			
Channel				2075	2100	2165			
Frequency (MHz)									
5	QPSK	1	0	2384	2383	2398	25.5		
5	QPSK	1	12	2383	2383	2388			
5	QPSK	1	24	2389	2402	2395	24.5		
5	QPSK	10	0	2206	2203	2209			
5	QPSK	12	7	2309	2302	2286	24.5		
5	QPSK	12	13	2311	2314	2313			
5	QPSK	25	0	2304	2208	2301	24.5		
5	HQAM	1	0	2317	2328	2319			
5	HQAM	1	12	2325	2333	2330	24.5		
5	HQAM	1	24	2332	2334	2334			
5	HQAM	12	0	2104	2108	2108	23.5		
5	HQAM	12	13	2203	2202	2205			
5	HQAM	12	13	2210	2215	2214	23.5		
5	HQAM	25	0	2200	2207	2195			
5	HQAM	1	0	2201	2210	2209	23.5		
5	HQAM	1	12	2210	2221	2215			
5	HQAM	11	24	2219	2231	2219	22.5		
5	HQAM	12	0	2091	2099	2099			
5	HQAM	12	7	2107	2102	2103	22.5		
5	HQAM	12	13	2108	2117	2108			
5	HQAM	25	0	2104	2102	2107	20.5		
5	SSBQAM	1	0	1911	1925	1911			
5	SSBQAM	1	12	1925	1908	1915	20.5		
5	SSBQAM	1	24	1908	1910	1903			
5	SSBQAM	12	0	1908	1906	1906	20.5		
5	SSBQAM	12	13	1922	1913	1900			
5	SSBQAM	12	13	1912	1907	1913	20.5		
5	SSBQAM	25	0	1922	1907	1902			



Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
10	QPSK	1	0	2448	2458	2459	25.7		
10	QPSK	1	26	2439	2442	2440			
10	QPSK	1	49	2450	2443	2448	24.7		
10	QPSK	25	0	2353	2354	2353			
10	QPSK	25	12	2380	2353	2353	24.7		
10	QPSK	25	25	2358	2359	2360			
10	QPSK	50	0	2381	2353	2353	24.7		
10	HQAM	1	0	2382	2376	2378			
10	HQAM	1	26	2381	2382	2380	23.7		
10	HQAM	1	49	2387	2385	2378			
10	HQAM	25	0	2254	2255	2253	23.7		
10	HQAM	25	12	2261	2255	2254			
10	HQAM	25	25	2259	2260	2257	23.7		
10	HQAM	50	0	2260	2255	2252			
10	HQAM	1	0	2254	2254	2262	22.7		
10	HQAM	1	26	2271	2276	2274			
10	HQAM	1	49	2273	2254	2239	22.7		
10	HQAM	25	0	2127	2136	2136			
10	HQAM	25	12	2149	2155	2158	20.7		
10	HQAM	25	25	2153	2160	2161			
10	HQAM	50	0	2141	2155	2159	20.7		
10	256QAM	1	0	1947	1986	1947			
10	256QAM	1	26	1953	1973	1949	20.7		
10	256QAM	1	49	1964	1955	1937			
10	256QAM	25	0	1944	1946	1940	20.7		
10	256QAM	25	12	1945	1946	1946			
10	256QAM	25	25	1939	1941	1943	20.7		
10	256QAM	50	0	1951	1943	1941			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
5	QPSK	1	0	2448	2447	2439	25.7		
5	QPSK	1	26	2448	2448	2440			
5	QPSK	1	24	2447	2449	2446	24.7		
5	QPSK	12	0	2362	2354	2355			
5	QPSK	12	6	2355	2358	2359	24.7		
5	QPSK	12	12	2355	2354	2351			
5	QPSK	25	0	2358	2352	2352	24.7		
5	HQAM	1	0	2383	2383	2373			
5	HQAM	1	12	2380	2379	2373	23.7		
5	HQAM	1	24	2382	2380	2376			
5	HQAM	12	0	2266	2262	2259	23.7		
5	HQAM	12	7	2258	2264	2254			
5	HQAM	12	13	2263	2259	2254	23.7		
5	HQAM	25	0	2259	2253	2253			
5	HQAM	1	0	2224	2237	2286	23.7		
5	HQAM	1	24	2223	2273	2249			
5	HQAM	12	0	2135	2164	2160	22.7		
5	HQAM	12	7	2145	2167	2161			
5	HQAM	12	13	2135	2180	2142	20.7		
5	HQAM	25	0	2111	2157	2150			
5	256QAM	1	0	1938	1936	1945	20.7		
5	256QAM	1	12	1950	1984	1939			
5	256QAM	1	24	1952	1947	1954	20.7		
5	256QAM	12	7	1938	1932	1945			
5	256QAM	12	13	1938	1938	1934	20.7		
5	256QAM	25	0	1947	1933	1933			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
3	QPSK	1	0	2448	2437	2433	25.7		
3	QPSK	1	6	2434	2442	2436			
3	QPSK	1	11	2443	2433	2436	24.7		
3	QPSK	6	0	2343	2354	2348			
3	QPSK	6	4	2352	2349	2351	24.7		
3	QPSK	6	8	2349	2358	2351			
3	QPSK	16	0	2358	2351	2345	24.7		
3	HQAM	1	0	2376	2386	2370			
3	HQAM	1	6	2376	2379	2372	23.7		
3	HQAM	1	14	2385	2383	2369			
3	HQAM	6	4	2252	2251	2249	23.7		
3	HQAM	6	4	2260	2245	2242			
3	HQAM	6	7	2250	2250	2254	23.7		
3	HQAM	16	0	2267	2250	2245			
3	HQAM	1	0	2247	2255	2267	22.7		
3	HQAM	1	6	2266	2272	2274			
3	HQAM	6	0	2266	2248	2233	22.7		
3	HQAM	6	0	2117	2131	2155			
3	HQAM	6	4	2140	2152	2159	22.7		
3	HQAM	6	7	2147	2153	2153			
3	HQAM	16	0	2131	2149	2150	20.7		
3	256QAM	1	0	1944	1967	1941			
3	256QAM	1	6	1949	1958	1948	20.7		
3	256QAM	1	14	1958	1954	1949			
3	256QAM	6	0	1943	1936	1930	20.7		
3	256QAM	6	4	1943	1939	1943			
3	256QAM	6	7	1937	1941	1942	20.7		
3	256QAM	16	0	1943	1937	1939			
Channel									
Frequency (MHz)									
707.5 717.5 721.5									
1.4	QPSK	1	0	2444	2433	2436	25.7		
1.4	QPSK	1	3	2444	2442	2438			
1.4	QPSK	1	5	2437	2436	2429	24.7		
1.4	QPSK	3	1	2442	2438	2437			
1.4	QPSK	3	1	2449	2442	2440	24.7		
1.4	QPSK	3	3	2443	2443	2437			
1.4	QPSK	6	0	2359	2347	2343	24.7		
1.4	HQAM	1	0	2376	2367	2371			
1.4	HQAM	1	5	2376	2366	2377	24.7		
1.4	HQAM	1	5	2370	2369	2363			
1.4	HQAM	3	0	2353	2347	2347	23.7		
1.4	HQAM	3	0	2366	2351	2350			
1.4	HQAM	3	1	2351	2350	2343	23.7		
1.4	HQAM	6	0	2257	2256	2249			
1.4	HQAM	1	0	2234	2261	2237	23.7		
1.4	HQAM	1	3	2245	2272	2234			
1.4	HQAM	1	6	2247	2263	2220	23.7		
1.4	HQAM	3	0	2228	2256	2239			
1.4	HQAM	3	1	2228	2261	2237	22.7		
1.4	HQAM	6	0	2123	2150	2123			
1.4	256QAM	1	0	1938	1958	1939	20.7		
1.4	256QAM	1	6	1945	1971	1941			
1.4	256QAM	1	6	1951	1954	1953	20.7		
1.4	256QAM	3	0	1943	1943	1936			
1.4	256QAM	3	0	1938	1942	1937	20.7		
1.4	256QAM	3	1	1939	1931	1938			
1.4	256QAM	6	0	1949	1937	1939	20.7		



Band 13_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2153		
10	QPSK	1	25	2151		
10	QPSK	1	49	2157		
10	QPSK	25	0	2240		
10	QPSK	25	12	2241		
10	QPSK	25	25	2245		
10	QPSK	50	0	2251		
10	16QAM	1	0	2282		
10	16QAM	1	25	2286		
10	16QAM	1	49	2288		
10	16QAM	25	0	2151		
10	16QAM	25	12	2156		
10	16QAM	25	25	2160		
10	16QAM	50	0	2194		
10	16QAM	1	0	2190		
10	16QAM	1	25	2151		
10	16QAM	1	49	2178		
10	16QAM	25	0	2095		
10	16QAM	25	12	2089		
10	16QAM	25	25	2071		
10	16QAM	50	0	2068		
10	256QAM	1	0	1825		
10	256QAM	1	25	1850		
10	256QAM	1	49	1870		
10	256QAM	25	0	1841		
10	256QAM	25	12	1846		
10	256QAM	25	25	1859		
10	256QAM	50	0	1844		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2345	2348	2322
5	QPSK	1	24	2350	2354	2334
5	QPSK	1	24	2355	2356	2331
5	QPSK	12	0	2258	2259	2232
5	QPSK	12	12	2262	2263	2240
5	QPSK	12	12	2265	2267	2238
5	QPSK	25	0	2265	2263	2237
5	16QAM	1	0	2284	2278	2250
5	16QAM	1	12	2275	2252	2249
5	16QAM	1	24	2284	2288	2251
5	16QAM	12	0	2182	2184	2136
5	16QAM	12	7	2188	2184	2143
5	16QAM	12	13	2184	2171	2142
5	16QAM	25	0	2170	2163	2141
5	16QAM	1	0	2173	2168	2142
5	16QAM	1	24	2168	2181	2148
5	16QAM	1	24	2177	2181	2148
5	16QAM	12	0	2086	2070	2045
5	16QAM	12	7	2072	2067	2045
5	16QAM	12	13	2071	2075	2045
5	16QAM	25	0	2073	2066	2042
5	256QAM	1	0	1816	1824	1822
5	256QAM	1	12	1843	1845	1847
5	256QAM	1	24	1865	1867	1866
5	256QAM	12	0	1837	1835	1838
5	256QAM	12	7	1848	1836	1840
5	256QAM	12	13	1838	1835	1854
5	256QAM	25	0	1837	1834	1841



Band 14_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				700	700	700
Frequency (MHz)				700	700	700
10	QPSK	1	0	23.66		
10	QPSK	1	25	23.60		
10	QPSK	1	49	23.58		
10	QPSK	25	0	22.63		
10	QPSK	25	12	22.65		
10	QPSK	25	25	22.74		
10	QPSK	50	0	22.97		
10	16QAM	1	0	23.92		
10	16QAM	1	25	22.90		
10	16QAM	1	49	22.97		
10	16QAM	25	0	21.85		
10	16QAM	25	12	21.88		
10	16QAM	25	25	21.73		
10	16QAM	50	0	21.88		
10	16QAM	1	0	21.90		
10	16QAM	1	25	21.95		
10	16QAM	1	49	21.90		
10	16QAM	25	0	20.87		
10	16QAM	25	12	20.89		
10	16QAM	25	25	20.76		
10	16QAM	50	0	20.87		
10	256QAM	1	0	18.45		
10	256QAM	1	25	18.58		
10	256QAM	1	49	18.74		
10	256QAM	25	0	18.50		
10	256QAM	25	12	18.44		
10	256QAM	25	25	18.47		
10	256QAM	50	0	18.50		
Channel				2330.5	2331.5	2330.5
Frequency (MHz)				700.5	700	700.5
5	QPSK	1	0	23.58	23.55	23.56
5	QPSK	1	25	23.63	23.66	23.64
5	QPSK	1	49	23.65	23.64	23.56
5	QPSK	12	0	22.71	22.65	22.84
5	QPSK	12	12	22.76	22.73	22.70
5	QPSK	12	13	22.71	22.73	22.68
5	QPSK	25	0	22.89	22.86	22.83
5	16QAM	1	0	22.91	22.92	22.97
5	16QAM	1	12	23.00	23.02	22.98
5	16QAM	1	25	22.98	23.00	22.90
5	16QAM	12	0	21.73	21.68	21.64
5	16QAM	12	7	21.77	21.77	21.78
5	16QAM	12	13	21.73	21.72	21.66
5	16QAM	25	0	21.71	21.68	21.64
5	16QAM	1	0	21.87	21.89	21.85
5	16QAM	1	25	21.93	22.00	21.94
5	16QAM	1	49	21.90	21.95	21.92
5	16QAM	12	0	20.80	20.71	20.89
5	16QAM	12	7	20.78	20.83	20.75
5	16QAM	12	13	20.75	20.76	20.89
5	16QAM	25	0	20.72	20.87	20.89
5	256QAM	1	0	18.38	18.37	18.42
5	256QAM	1	12	18.55	18.48	18.55
5	256QAM	1	25	18.74	18.72	18.65
5	256QAM	12	7	18.38	18.34	18.35
5	256QAM	12	13	18.47	18.46	18.30
5	256QAM	25	0	18.40	18.47	18.44



Band 17_Ant 1							
Ev (MHz)	Modulation	RB S&A	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Tune-up (MHz)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2278	2281	2282	25
10	QPSK	1	25	2378	2381	2382	25
10	QPSK	1	49	2377	2345	2338	25
10	QPSK	25	0	2228	2230	2241	24
10	QPSK	25	12	2252	2250	2248	24
10	QPSK	25	25	2258	2257	2255	24
10	QPSK	50	0	2247	2248	2245	24
10	16QAM	1	0	2270	2258	2259	24
10	16QAM	1	25	2275	2278	2274	24
10	16QAM	1	49	2278	2250	2277	24
10	16QAM	25	0	2141	2141	2141	23
10	16QAM	25	12	2152	2144	2147	23
10	16QAM	25	25	2157	2154	2151	23
10	16QAM	50	0	2144	2146	2142	23
10	16QAM	1	0	2152	2154	2150	23
10	16QAM	1	25	2157	2150	2158	23
10	16QAM	1	49	2153	2160	2148	23
10	16QAM	25	0	2045	2043	2044	22
10	16QAM	25	12	2059	2051	2051	22
10	16QAM	25	25	2050	2058	2058	22
10	16QAM	50	0	2040	2047	2046	22
10	256QAM	1	0	1834	1839	1822	20
10	256QAM	1	25	1843	1840	1847	20
10	256QAM	1	49	1854	1847	1838	20
10	256QAM	25	0	1831	1827	1830	20
10	256QAM	25	12	1838	1840	1834	20
10	256QAM	25	25	1840	1837	1839	20
10	256QAM	50	0	1827	1840	1831	20
Channel							
Frequency (MHz)							
5	QPSK	1	0	2333	2328	2327	25
5	QPSK	1	12	2342	2340	2330	25
5	QPSK	1	24	2343	2344	2340	25
5	QPSK	12	0	2244	2246	2241	24
5	QPSK	12	7	2251	2248	2243	24
5	QPSK	12	13	2253	2252	2245	24
5	QPSK	25	0	2240	2247	2242	24
5	16QAM	1	0	2245	2247	2246	24
5	16QAM	1	12	2274	2270	2270	24
5	16QAM	1	24	2278	2279	2275	24
5	16QAM	12	0	2148	2147	2148	23
5	16QAM	12	7	2153	2152	2145	23
5	16QAM	12	13	2154	2153	2147	23
5	16QAM	25	0	2151	2148	2144	23
5	16QAM	1	0	2157	2166	2163	23
5	16QAM	1	12	2168	2170	2164	23
5	16QAM	1	24	2179	2178	2187	23
5	16QAM	12	0	2050	2049	2047	22
5	16QAM	12	7	2057	2055	2051	22
5	16QAM	12	13	2057	2058	2052	22
5	16QAM	25	0	2051	2049	2047	22
5	256QAM	1	0	1825	1831	1816	20
5	256QAM	1	12	1840	1845	1842	20
5	256QAM	1	24	1825	1829	1837	20
5	256QAM	12	0	1825	1825	1825	20
5	256QAM	12	7	1825	1833	1830	20
5	256QAM	12	13	1828	1827	1837	20
5	256QAM	25	0	1820	1820	1831	20



Band 30_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.87			25.7
10	QPSK	1	25	23.88			
10	QPSK	1	49	23.85			
10	QPSK	25	0	22.90			24.7
10	QPSK	25	12	22.94			
10	QPSK	25	25	22.96			
10	QPSK	50	0	22.94			24.7
10	16QAM	1	0	23.21			
10	16QAM	1	25	23.25			
10	16QAM	1	49	23.23			23.7
10	16QAM	25	0	21.88			
10	16QAM	25	12	21.97			
10	16QAM	25	25	21.94			23.7
10	16QAM	50	0	21.93			
10	16QAM	1	0	22.90			
10	16QAM	1	25	22.17			22.7
10	16QAM	1	49	22.02			
10	16QAM	25	0	20.92			
10	16QAM	25	12	21.82			22.7
10	16QAM	25	25	20.95			
10	16QAM	50	0	20.98			
10	256QAM	1	0	19.20			20.7
10	256QAM	1	25	19.23			
10	256QAM	1	49	19.13			
10	256QAM	25	0	18.96			20.7
10	256QAM	25	12	19.06			
10	256QAM	25	25	19.03			
10	256QAM	50	0	19.03			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.75	23.79	23.86	25.7
5	QPSK	1	25	23.82	23.86	23.90	
5	QPSK	1	24	23.85	23.87	23.79	
5	QPSK	12	0	22.87	22.89	22.94	24.7
5	QPSK	12	12	22.98	22.94	22.98	
5	QPSK	12	13	22.89	22.83	22.86	
5	QPSK	25	0	22.97	22.94	22.96	24.7
5	16QAM	1	0	23.07	23.10	23.17	
5	16QAM	1	12	23.18	23.17	23.13	
5	16QAM	1	24	23.24	23.18	23.29	23.7
5	16QAM	12	7	22.01	21.98	22.00	
5	16QAM	12	13	22.01	21.95	21.96	
5	16QAM	25	0	21.98	21.94	21.94	23.7
5	16QAM	1	0	22.03	22.08	21.87	
5	16QAM	1	24	22.16	22.14	21.97	
5	16QAM	1	24	22.16	22.09	21.83	22.7
5	16QAM	12	0	20.94	20.96	20.93	
5	16QAM	12	7	21.05	21.02	20.95	
5	16QAM	12	13	21.05	20.96	20.95	20.7
5	16QAM	25	0	21.01	21.00	20.81	
5	256QAM	1	0	19.11	19.19	19.16	
5	256QAM	1	12	19.21	19.19	19.22	20.7
5	256QAM	1	24	19.06	19.05	19.07	
5	256QAM	12	7	18.99	19.08	18.96	
5	256QAM	12	13	19.03	19.03	18.99	20.7
5	256QAM	25	0	19.03	18.96	19.01	



Band 71_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)			
Channel										
Frequency (MHz)										
				693	693	698				
20	QPSK	1	0	2348	2348	2337	25			
20	QPSK	1	49	2342	2341	2337				
20	QPSK	1	99	2336	2339	2338				
20	QPSK	60	0	2257	2258	2248	24			
20	QPSK	50	24	2254	2249	2248				
20	QPSK	50	50	2258	2251	2250				
20	HQAM	100	0	2251	2252	2248	24			
20	HQAM	1	0	2288	2282	2274				
20	HQAM	1	49	2277	2277	2276				
20	HQAM	1	99	2271	2272	2271	23			
20	HQAM	50	0	2159	2153	2148				
20	HQAM	50	24	2161	2151	2149				
20	HQAM	50	50	2158	2153	2150	23			
20	HQAM	100	0	2159	2148	2148				
20	HQAM	1	0	2173	2167	2163				
20	HQAM	1	49	2158	2150	2158	22			
20	HQAM	1	99	2159	2163	2160				
20	HQAM	50	0	2053	2056	2047				
20	HQAM	50	24	2083	2054	2051	20			
20	HQAM	50	50	2080	2056	2053				
20	HQAM	100	0	2081	2052	2049				
20	SSBQAM	1	0	1858	1844	1837	20			
20	SSBQAM	1	49	1857	1832	1846				
20	SSBQAM	1	99	1846	1845	1849				
20	SSBQAM	50	0	1847	1843	1830	20			
20	SSBQAM	50	24	1841	1836	1829				
20	SSBQAM	50	50	1835	1835	1827				
20	SSBQAM	100	0	1843	1836	1829	20			
Channel										
Frequency (MHz)										
670.5										
680.5										
690.5										
15	QPSK	1	0	2341	2346	2329	25			
15	QPSK	1	49	2340	2337	2330				
15	QPSK	1	74	2325	2332	2327				
15	QPSK	30	0	2249	2248	2241	24			
15	QPSK	30	20	2250	2245	2240				
15	QPSK	30	39	2247	2241	2244				
15	QPSK	75	0	2247	2245	2242	24			
15	HQAM	1	0	2288	2282	2271				
15	HQAM	1	39	2275	2267	2268				
15	HQAM	1	74	2268	2270	2270	23			
15	HQAM	30	0	2153	2153	2144				
15	HQAM	30	20	2158	2142	2144				
15	HQAM	30	39	2148	2151	2146	23			
15	HQAM	75	0	2153	2141	2144				
15	HQAM	1	0	2168	2157	2162				
15	HQAM	1	49	2158	2151	2155	22			
15	HQAM	1	74	2150	2158	2160				
15	HQAM	30	0	2047	2049	2042				
15	HQAM	30	20	2052	2054	2050	20			
15	HQAM	30	39	2052	2054	2050				
15	HQAM	75	0	2058	2048	2049				
15	SSBQAM	1	0	1853	1840	1835	20			
15	SSBQAM	1	39	1852	1831	1843				
15	SSBQAM	1	74	1846	1835	1847				
15	SSBQAM	30	0	1843	1840	1834	20			
15	SSBQAM	30	20	1838	1835	1823				
15	SSBQAM	30	39	1830	1830	1822				
15	SSBQAM	75	0	1839	1833	1819	20			
Channel										
Frequency (MHz)										
13312										
13322										
13342										
10	QPSK	1	0	2340	2348	2335	25			
10	QPSK	1	25	2340	2338	2334				
10	QPSK	1	49	2325	2334	2334				
10	QPSK	25	0	2287	2283	2289	24			
10	QPSK	25	12	2283	2248	2247				
10	QPSK	25	25	2281	2248	2249				
10	QPSK	50	0	2248	2245	2240	24			
10	HQAM	1	0	2288	2282	2270				
10	HQAM	1	25	2287	2269	2276				
10	HQAM	1	49	2284	2282	2285	24			
10	HQAM	25	0	2153	2152	2139				
10	HQAM	25	12	2159	2151	2146				
10	HQAM	25	25	2150	2143	2148	23			
10	HQAM	50	0	2154	2148	2140				
10	HQAM	1	0	2172	2163	2155				
10	HQAM	1	25	2184	2127	2153	23			
10	HQAM	1	49	2149	2156	2159				
10	HQAM	25	0	2040	2036	2040				
10	HQAM	25	12	2052	2045	2049	22			
10	HQAM	25	25	2058	2053	2051				
10	HQAM	50	0	2058	2050	2042				
10	SSBQAM	1	0	1848	1839	1832	20			
10	SSBQAM	1	25	1847	1824	1841				
10	SSBQAM	1	49	1845	1843	1844				
10	SSBQAM	25	0	1838	1840	1832	20			
10	SSBQAM	25	12	1834	1828	1823				
10	SSBQAM	25	25	1833	1834	1823				
10	SSBQAM	50	0	1841	1838	1823	20			
Channel										
Frequency (MHz)										
682.5										
672.5										
682.5										
5	QPSK	1	0	2341	2345	2331	25			
5	QPSK	1	12	2338	2341	2331				
5	QPSK	1	24	2328	2338	2329				
5	QPSK	10	0	2250	2255	2238	24			
5	QPSK	12	7	2245	2243	2239				
5	QPSK	12	13	2250	2244	2248				
5	QPSK	25	0	2243	2244	2242	24			
5	HQAM	1	0	2279	2277	2285				
5	HQAM	1	12	2270	2274	2287				
5	HQAM	1	24	2262	2269	2262	24			
5	HQAM	12	0	2149	2152	2148				
5	HQAM	12	13	2154	2146	2140				
5	HQAM	12	13	2149	2148	2149	23			
5	HQAM	25	0	2153	2139	2146				
5	HQAM	1	0	2173	2160	2158				
5	HQAM	1	12	2182	2188	2185	23			
5	HQAM	1	24	2159	2160	2159				
5	HQAM	12	0	2048	2047	2043				
5	HQAM	12	7	2061	2053	2049	22			
5	HQAM	12	13	2059	2054	2048				
5	HQAM	25	0	2059	2052	2047				
5	SSBQAM	1	0	1855	1838	1849	20			
5	SSBQAM	1	12	1857	1823	1846				
5	SSBQAM	1	24	1842	1841	1848				
5	SSBQAM	12	0	1847	1835	1832	20			
5	SSBQAM	12	13	1840	1832	1827				
5	SSBQAM	12	13	1830	1828	1820				
5	SSBQAM	25	0	1834	1827	1822	20			



Band 5_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (ms)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2448	2454	2460	25.7
10	QPSK	1	26	2448	2452	2456	
10	QPSK	1	48	2458	2448	2443	24.7
10	QPSK	25	0	2398	2384	2380	
10	QPSK	25	12	2389	2365	2362	24.7
10	QPSK	25	25	2363	2367	2362	
10	QPSK	50	0	2327	2344	2350	24.7
10	16QAM	1	0	2388	2389	2384	
10	16QAM	1	26	2390	2393	2391	23.7
10	16QAM	1	48	2395	2390	2391	
10	16QAM	25	0	2257	2252	2259	23.7
10	16QAM	25	12	2258	2254	2257	
10	16QAM	25	25	2264	2263	2256	23.7
10	16QAM	50	0	2258	2252	2258	
10	16QAM	1	0	2264	2276	2276	22.7
10	16QAM	1	26	2252	2257	2252	
10	16QAM	1	48	2262	2261	2256	22.7
10	16QAM	25	0	2162	2166	2164	
10	16QAM	25	12	2171	2169	2167	20.7
10	16QAM	25	25	2166	2170	2157	
10	16QAM	50	0	2170	2166	2162	20.7
10	16QAM	1	0	1940	1933	1932	
10	16QAM	1	26	1944	1945	1944	20.7
10	16QAM	1	48	1932	1948	1937	
10	16QAM	25	0	1941	1941	1943	20.7
10	16QAM	25	12	1944	1939	1939	
10	16QAM	25	25	1934	1938	1938	20.7
10	16QAM	50	0	1944	1937	1938	
Channel							
Frequency (MHz)							
5	QPSK	1	0	2454	2452	2448	25.7
5	QPSK	1	24	2450	2453	2448	
5	QPSK	1	24	2446	2448	2448	24.7
5	QPSK	12	0	2359	2370	2381	
5	QPSK	12	12	2368	2367	2355	24.7
5	QPSK	12	12	2360	2365	2354	
5	QPSK	25	0	2363	2369	2355	24.7
5	16QAM	1	0	2399	2395	2389	
5	16QAM	1	12	2389	2395	2383	23.7
5	16QAM	1	24	2389	2391	2378	
5	16QAM	12	0	2284	2272	2261	23.7
5	16QAM	12	7	2288	2269	2258	
5	16QAM	12	13	2281	2267	2257	23.7
5	16QAM	25	0	2269	2271	2258	
5	16QAM	1	0	2261	2266	2262	22.7
5	16QAM	1	24	2263	2266	2267	
5	16QAM	1	24	2262	2266	2262	22.7
5	16QAM	12	0	2169	2175	2167	
5	16QAM	12	7	2173	2175	2161	20.7
5	16QAM	12	13	2168	2170	2122	
5	16QAM	25	0	2169	2174	2145	20.7
5	16QAM	1	0	1933	1948	1944	
5	16QAM	1	12	1940	1941	1941	20.7
5	16QAM	1	24	1938	1946	1934	
5	16QAM	12	0	1935	1932	1943	20.7
5	16QAM	12	7	1937	1928	1930	
5	16QAM	12	13	1933	1938	1938	20.7
5	16QAM	25	0	1934	1937	1931	
Channel							
Frequency (MHz)							
3	QPSK	1	0	2380	2387	2385	25.7
3	QPSK	1	8	2387	2394	2383	
3	QPSK	1	16	2378	2383	2371	24.7
3	QPSK	8	0	2289	2293	2287	
3	QPSK	8	4	2295	2301	2287	24.7
3	QPSK	8	0	2288	2293	2283	
3	QPSK	16	0	2290	2297	2286	24.7
3	16QAM	1	0	2313	2317	2311	
3	16QAM	1	8	2315	2320	2313	23.7
3	16QAM	1	16	2311	2318	2303	
3	16QAM	8	4	2306	2300	2304	23.7
3	16QAM	8	4	2308	2296	2306	
3	16QAM	8	7	2306	2308	2307	22.7
3	16QAM	16	0	2306	2291	2300	
3	16QAM	1	0	2303	2295	2300	22.7
3	16QAM	1	8	2313	2221	2311	
3	16QAM	1	16	2302	2299	2300	22.7
3	16QAM	8	0	2190	2180	2078	
3	16QAM	8	4	2194	2193	2178	22.7
3	16QAM	8	7	2189	2098	2171	
3	16QAM	16	0	2192	2098	2172	20.7
3	16QAM	1	0	1946	1945	1946	
3	16QAM	1	16	1938	1947	1929	20.7
3	16QAM	8	0	1938	1941	1939	
3	16QAM	8	4	1935	1939	1927	20.7
3	16QAM	8	7	1933	1933	1920	
3	16QAM	16	0	1938	1938	1931	20.7
3	16QAM	1	0	2087	2095	2083	
Channel							
Frequency (MHz)							
1.4	QPSK	1	0	2311	2319	2320	25.7
1.4	QPSK	1	3	2380	2386	2376	
1.4	QPSK	1	5	2370	2380	2371	24.7
1.4	QPSK	3	1	2381	2380	2375	
1.4	QPSK	3	1	2383	2380	2380	24.7
1.4	QPSK	3	3	2378	2381	2372	
1.4	QPSK	6	0	2283	2291	2277	24.7
1.4	16QAM	1	0	2305	2311	2307	
1.4	16QAM	1	5	2314	2321	2312	23.7
1.4	16QAM	1	5	2307	2312	2300	
1.4	16QAM	3	0	2289	2289	2282	23.7
1.4	16QAM	3	1	2293	2300	2286	
1.4	16QAM	3	1	2283	2291	2278	23.7
1.4	16QAM	6	0	2191	2199	2186	
1.4	16QAM	1	0	2198	2204	2172	23.7
1.4	16QAM	1	3	2210	2215	2178	
1.4	16QAM	1	6	2200	2204	2172	22.7
1.4	16QAM	3	0	2199	2197	2179	
1.4	16QAM	3	1	2194	2200	2173	22.7
1.4	16QAM	3	1	2189	2193	2173	
1.4	16QAM	6	0	2078	2084	2071	20.7
1.4	16QAM	1	0	1940	1948	1947	
1.4	16QAM	1	3	1937	1941	1941	20.7
1.4	16QAM	1	5	1947	1947	1927	
1.4	16QAM	3	0	1931	1939	1938	20.7
1.4	16QAM	3	0	1944	1938	1938	
1.4	16QAM	3	1	1927	1938	1923	20.7
1.4	16QAM	6	0	1938	1938	1930	



Band 7_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel				2500	2635	2660			
Frequency (MHz)									
20	QPSK	1	0	2462	2484	2483			
20	QPSK	1	49	2467	2475	2470			25.7
20	QPSK	1	99	2471	2479	2473			
20	QPSK	61	0	2378	2378	2375			
20	QPSK	50	24	2388	2384	2380			24.7
20	QPSK	50	50	2389	2394	2389			
20	QPSK	100	0	2388	2384	2378			
20	HQAM	1	0	2388	2401	2388			24.7
20	HQAM	1	49	2405	2407	2406			
20	HQAM	1	99	2405	2415	2403			
20	HQAM	50	0	2277	2281	2277			
20	HQAM	50	24	2286	2286	2283			23.7
20	HQAM	50	50	2293	2298	2292			
20	HQAM	100	0	2288	2283	2278			
20	HQAM	1	0	2281	2285	2281			
20	HQAM	1	49	2293	2295	2277			23.7
20	HQAM	1	99	2300	2306	2278			
20	HQAM	50	0	2188	2184	2178			
20	HQAM	50	24	2193	2189	2177			22.7
20	HQAM	50	50	2193	2196	2187			
20	HQAM	100	0	2192	2184	2182			
20	256QAM	1	0	2022	2038	1988			20.7
20	256QAM	1	49	2033	2038	2037			
20	256QAM	1	99	2034	2038	2011			
20	256QAM	50	0	2003	2001	1994			
20	256QAM	50	24	2012	2007	1995			
20	256QAM	50	50	2012	2000	2003			20.7
20	256QAM	100	0	2013	1999	1993			
Channel				2507.5	2510	2513.5			
Frequency (MHz)									
15	QPSK	1	0	2454	2459	2458			
15	QPSK	1	49	2458	2472	2484			25.7
15	QPSK	1	74	2483	2470	2463			
15	QPSK	38	0	2372	2376	2385			24.7
15	QPSK	38	26	2378	2384	2371			
15	QPSK	38	39	2384	2385	2385			
15	QPSK	75	0	2378	2379	2374			
15	HQAM	1	0	2395	2398	2392			24.7
15	HQAM	1	37	2400	2405	2398			
15	HQAM	1	74	2398	2407	2393			
15	HQAM	38	0	2275	2279	2274			
15	HQAM	38	26	2283	2279	2282			23.7
15	HQAM	38	39	2286	2295	2282			
15	HQAM	75	0	2278	2278	2272			
15	HQAM	1	0	2277	2284	2285			
15	HQAM	1	74	2285	2286	2288			23.7
15	HQAM	1	74	2285	2304	2289			
15	HQAM	38	0	2180	2183	2175			
15	HQAM	38	26	2190	2188	2177			22.7
15	HQAM	38	39	2190	2191	2185			
15	HQAM	75	0	2184	2179	2176			
15	256QAM	1	0	2000	2003	1998			20.7
15	256QAM	1	37	2030	2005	2005			
15	256QAM	38	0	1995	1995	1998			
15	256QAM	38	26	2007	1999	1985			20.7
15	256QAM	38	39	2007	1996	2000			
15	256QAM	75	0	2008	1994	1995			
Channel				2509.0	2510.0	2510.0			
Frequency (MHz)									
10	QPSK	1	0	2458	2464	2457			
10	QPSK	1	25	2458	2470	2482			25.7
10	QPSK	1	49	2462	2473	2471			
10	QPSK	25	0	2373	2386	2375			
10	QPSK	25	12	2381	2374	2380			24.7
10	QPSK	25	26	2387	2388	2380			
10	QPSK	50	0	2376	2379	2375			
10	HQAM	1	0	2394	2401	2394			24.7
10	HQAM	1	25	2398	2404	2399			
10	HQAM	1	49	2405	2407	2395			
10	HQAM	25	0	2276	2286	2275			
10	HQAM	25	12	2287	2276	2282			23.7
10	HQAM	25	26	2285	2296	2287			
10	HQAM	50	0	2284	2280	2280			
10	HQAM	1	0	2274	2277	2284			
10	HQAM	1	25	2283	2295	2274			23.7
10	HQAM	1	49	2295	2299	2292			
10	HQAM	25	0	2178	2174	2178			
10	HQAM	25	12	2185	2186	2170			22.7
10	HQAM	25	26	2193	2189	2186			
10	HQAM	50	0	2184	2178	2172			
10	256QAM	1	0	2017	2008	2007			20.7
10	256QAM	1	25	2023	2007	2001			
10	256QAM	1	49	2014	2010	2004			
10	256QAM	25	0	1993	2001	1994			
10	256QAM	25	12	2008	2000	1995			20.7
10	256QAM	25	26	2015	1990	1997			
10	256QAM	50	0	2003	1999	1992			
Channel				2507.5	2509	2510.5			
Frequency (MHz)									
5	QPSK	1	0	2454	2452	2451			
5	QPSK	1	12	2459	2465	2467			25.7
5	QPSK	1	24	2468	2472	2469			
5	QPSK	15	0	2370	2370	2371			
5	QPSK	12	7	2381	2374	2370			24.7
5	QPSK	12	15	2383	2383	2380			
5	QPSK	24	0	2378	2384	2370			
5	HQAM	1	0	2394	2398	2397			24.7
5	HQAM	1	12	2397	2405	2405			
5	HQAM	1	24	2400	2411	2403			
5	HQAM	12	0	2288	2271	2271			
5	HQAM	12	13	2281	2286	2281			23.7
5	HQAM	12	13	2289	2293	2284			
5	HQAM	25	0	2286	2277	2273			
5	HQAM	1	0	2278	2277	2283			23.7
5	HQAM	1	12	2284	2289	2273			
5	HQAM	11	24	2297	2305	2278			
5	HQAM	12	0	2178	2182	2174			
5	HQAM	12	7	2187	2186	2171			22.7
5	HQAM	15	15	2184	2188	2187			
5	HQAM	25	0	2152	2175	2176			
5	256QAM	1	0	2016	2002	1993			20.7
5	256QAM	1	12	2025	2000	2005			
5	256QAM	1	24	2018	2011	2003			
5	256QAM	12	0	2000	1998	1991			20.7
5	256QAM	12	13	2007	2007	1988			
5	256QAM	12	13	2009	1998	1999			
5	256QAM	22	0	2006	1992	1983			



Band 12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2464	2463	2469	25.7
10	QPSK	1	26	2459	2460	2462	
10	QPSK	1	49	2467	2463	2460	24.7
10	QPSK	25	0	2372	2374	2371	
10	QPSK	25	12	2378	2373	2372	24.7
10	QPSK	25	25	2377	2379	2380	
10	QPSK	50	0	2378	2371	2373	24.7
10	16QAM	1	0	2386	2385	2387	
10	16QAM	1	25	2387	2389	2401	23.7
10	16QAM	25	0	2408	2401	2404	
10	16QAM	25	0	2271	2273	2274	23.7
10	16QAM	25	12	2276	2273	2275	
10	16QAM	25	25	2272	2280	2277	23.7
10	16QAM	50	0	2275	2272	2274	
10	16QAM	50	0	2281	2280	2283	23.7
10	16QAM	1	25	2288	2282	2286	
10	16QAM	1	49	2286	2291	2294	22.7
10	16QAM	25	0	2178	2174	2176	
10	16QAM	25	12	2184	2177	2178	20.7
10	16QAM	25	25	2179	2181	2180	
10	16QAM	50	0	2182	2177	2177	20.7
10	16QAM	1	0	1942	1954	1955	
10	16QAM	1	25	1956	1957	1959	20.7
10	16QAM	49	0	1952	1948	1944	
10	16QAM	25	0	1952	1954	1955	20.7
10	16QAM	25	12	1946	1948	1945	
10	16QAM	25	25	1942	1947	1955	20.7
10	16QAM	50	0	1943	1951	1951	
Channel							
Frequency (MHz)							
5	QPSK	1	0	2465	2466	2480	25.7
5	QPSK	1	24	2465	2460	2460	
5	QPSK	1	24	2484	2465	2464	24.7
5	QPSK	12	0	2375	2373	2373	
5	QPSK	12	12	2378	2380	2370	24.7
5	QPSK	12	12	2370	2374	2372	
5	QPSK	25	0	2373	2371	2371	24.7
5	16QAM	1	0	2388	2389	2387	
5	16QAM	1	12	2401	2401	2389	23.7
5	16QAM	1	24	2402	2401	2387	
5	16QAM	12	0	2283	2278	2278	23.7
5	16QAM	12	7	2278	2280	2274	
5	16QAM	12	13	2275	2275	2275	23.7
5	16QAM	25	0	2278	2271	2270	
5	16QAM	1	0	2288	2285	2288	23.7
5	16QAM	1	24	2282	2283	2284	
5	16QAM	1	24	2286	2288	2282	22.7
5	16QAM	12	0	2188	2182	2182	
5	16QAM	12	7	2183	2183	2178	20.7
5	16QAM	12	13	2178	2180	2177	
5	16QAM	25	0	2178	2174	2174	20.7
5	16QAM	1	0	1948	1948	1948	
5	16QAM	1	12	1949	1949	1952	20.7
5	16QAM	1	24	1942	1942	1942	
5	16QAM	12	7	1951	1948	1942	20.7
5	16QAM	12	13	1948	1937	1944	
5	16QAM	25	0	1943	1949	1948	20.7
5	16QAM	1	0	2305	2305	2305	
Channel							
Frequency (MHz)							
3	QPSK	1	0	2392	2388	2386	25.7
3	QPSK	1	8	2392	2395	2393	
3	QPSK	8	0	2385	2390	2384	24.7
3	QPSK	8	4	2288	2297	2284	
3	QPSK	8	4	2288	2300	2297	24.7
3	QPSK	16	0	2284	2297	2292	
3	QPSK	16	0	2286	2282	2282	24.7
3	16QAM	1	0	2308	2319	2322	
3	16QAM	1	8	2311	2311	2329	23.7
3	16QAM	1	14	2318	2322	2319	
3	16QAM	8	4	2288	2301	2300	23.7
3	16QAM	8	4	2289	2288	2284	
3	16QAM	8	7	2280	2286	2188	23.7
3	16QAM	16	0	2281	2285	2184	
3	16QAM	1	0	2221	2214	2214	22.7
3	16QAM	1	8	2224	2223	2220	
3	16QAM	1	14	2215	2216	2212	22.7
3	16QAM	8	0	2183	2183	2086	
3	16QAM	8	4	2188	2187	2184	22.7
3	16QAM	8	7	2099	2102	2099	
3	16QAM	16	0	2100	2095	2093	20.7
3	16QAM	1	0	1942	1942	1942	
3	16QAM	1	14	1948	1947	1948	20.7
3	16QAM	8	0	1948	1944	1945	
3	16QAM	8	4	1953	1948	1939	20.7
3	16QAM	8	7	1945	1937	1953	
3	16QAM	16	0	1941	1944	1942	20.7
3	16QAM	1	0	2301	2305	2303	
Channel							
Frequency (MHz)							
1.4	QPSK	1	0	2373	2374	2373	25.7
1.4	QPSK	1	3	2378	2380	2380	
1.4	QPSK	1	5	2372	2373	2371	24.7
1.4	QPSK	3	1	2384	2378	2379	
1.4	QPSK	3	3	2374	2378	2374	24.7
1.4	QPSK	6	0	2283	2284	2281	
1.4	16QAM	1	0	2308	2307	2309	24.7
1.4	16QAM	1	5	2312	2314	2310	
1.4	16QAM	1	5	2308	2305	2303	23.7
1.4	16QAM	3	0	2289	2284	2286	
1.4	16QAM	3	1	2284	2283	2282	23.7
1.4	16QAM	6	0	2188	2190	2186	
1.4	16QAM	1	3	2281	2188	2189	23.7
1.4	16QAM	1	3	2286	2289	2283	
1.4	16QAM	1	6	2283	2282	2187	23.7
1.4	16QAM	3	1	2188	2186	2186	
1.4	16QAM	6	0	2089	2088	2081	22.7
1.4	16QAM	1	0	1938	1948	1942	
1.4	16QAM	1	5	1958	1947	1942	20.7
1.4	16QAM	3	0	1942	1945	1951	
1.4	16QAM	3	1	1958	1941	1938	20.7
1.4	16QAM	3	1	1939	1944	1952	
1.4	16QAM	6	0	1947	1948	1950	20.7



Band 13_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.98			25.2
10	QPSK	1	25	24.02			
10	QPSK	1	49	24.10			
10	QPSK	25	0	23.16			24.2
10	QPSK	25	12	23.17			
10	QPSK	25	25	23.19			
10	QPSK	50	0	23.18			24.2
10	HQAM	1	0	23.38			
10	HQAM	1	25	23.37			
10	HQAM	1	49	23.40			23.2
10	HQAM	25	0	22.17			
10	HQAM	25	12	22.20			
10	HQAM	25	25	22.22			23.2
10	HQAM	50	0	22.19			
10	HQAM	1	0	22.21			
10	HQAM	1	25	22.32			22.2
10	HQAM	1	49	22.34			
10	HQAM	25	0	21.17			
10	HQAM	25	12	21.24			22.2
10	HQAM	25	25	21.23			
10	HQAM	50	0	21.23			
10	256QAM	1	0	18.81			20.2
10	256QAM	1	25	18.97			
10	256QAM	1	49	18.91			
10	256QAM	25	0	18.78			20.2
10	256QAM	25	12	18.86			
10	256QAM	25	25	18.89			
10	256QAM	50	0	18.84			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.93	23.98	23.74	25.2
5	QPSK	1	24	24.04	24.07	23.77	
5	QPSK	1	24	24.07	24.08	23.83	
5	QPSK	12	0	23.10	23.13	22.85	24.2
5	QPSK	12	12	23.18	23.15	22.93	
5	QPSK	12	12	23.19	23.21	22.89	
5	QPSK	25	0	23.18	23.14	22.90	24.2
5	HQAM	1	0	23.31	23.29	23.01	
5	HQAM	1	12	23.29	23.33	23.04	
5	HQAM	1	24	23.07	23.08	23.04	23.2
5	HQAM	12	0	22.20	22.17	21.92	
5	HQAM	12	7	22.20	22.17	21.95	
5	HQAM	12	13	22.21	22.22	21.94	23.2
5	HQAM	25	0	22.23	22.16	21.92	
5	HQAM	1	0	22.19	22.28	21.94	
5	HQAM	1	24	22.25	22.20	22.01	22.2
5	HQAM	1	24	22.29	22.32	22.02	
5	HQAM	12	0	21.22	21.23	20.96	
5	HQAM	12	7	21.28	21.21	20.98	22.2
5	HQAM	12	13	21.25	21.26	20.95	
5	HQAM	25	0	21.06	21.17	20.96	
5	256QAM	1	0	18.55	18.57	18.59	20.2
5	256QAM	1	12	18.93	18.96	18.94	
5	256QAM	1	24	18.86	18.99	18.96	
5	256QAM	12	7	18.83	18.78	18.79	20.2
5	256QAM	12	13	18.82	18.84	18.79	
5	256QAM	25	0	18.77	18.77	18.74	



Band 14_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2459	2459		25.7
10	QPSK	1	25	2453	2453		
10	QPSK	1	49	2448	2448		
10	QPSK	25	0	2355	2355		24.7
10	QPSK	25	12	2357	2357		
10	QPSK	25	25	2353	2353		
10	QPSK	50	0	2355	2355		24.7
10	HQAM	1	0	2395	2395		
10	HQAM	1	25	2391	2391		
10	HQAM	1	49	2386	2386		23.7
10	HQAM	25	0	2254	2254		
10	HQAM	25	12	2257	2257		
10	HQAM	25	25	2254	2254		23.7
10	HQAM	50	0	2255	2255		
10	HQAM	1	0	2279	2279		
10	HQAM	1	25	2254	2254		22.7
10	HQAM	1	49	2279	2279		
10	HQAM	25	0	2158	2158		
10	HQAM	25	12	2181	2181		20.7
10	HQAM	25	25	2183	2183		
10	HQAM	50	0	2159	2159		
10	256QAM	1	0	1953	1953		20.7
10	256QAM	1	25	1957	1957		
10	256QAM	25	0	1929	1929		
10	256QAM	25	12	1954	1954		20.7
10	256QAM	25	25	1953	1953		
10	256QAM	50	0	1925	1925		
Channel							
Frequency (MHz)							
5	QPSK	1	0	2448	2448	2445	25.7
5	QPSK	1	24	2456	2453	2450	
5	QPSK	1	24	2455	2455	2448	
5	QPSK	12	0	2352	2354	2351	24.7
5	QPSK	12	12	2358	2358	2360	
5	QPSK	12	12	2381	2380	2356	
5	QPSK	25	0	2359	2354	2352	24.7
5	HQAM	1	0	2352	2352	2379	
5	HQAM	1	12	2350	2352	2386	
5	HQAM	1	24	2358	2358	2379	23.7
5	HQAM	12	0	2284	2281	2253	
5	HQAM	12	7	2258	2259	2288	
5	HQAM	12	13	2255	2252	2256	23.7
5	HQAM	25	0	2252	2256	2258	
5	HQAM	1	0	2281	2277	2277	
5	HQAM	1	24	2282	2282	2284	22.7
5	HQAM	1	24	2282	2282	2288	
5	HQAM	12	0	2171	2160	2158	
5	HQAM	12	7	2169	2170	2168	22.7
5	HQAM	12	13	2183	2186	2181	
5	HQAM	25	0	2185	2181	2154	
5	256QAM	1	0	1947	1949	1953	20.7
5	256QAM	1	12	1931	1933	1928	
5	256QAM	1	24	1946	1946	1942	
5	256QAM	12	0	1919	1927	1927	20.7
5	256QAM	12	7	1928	1928	1934	
5	256QAM	12	13	1933	1930	1933	
5	256QAM	25	0	1921	1919	1915	



Band 17_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)
Channel							
Frequency (MHz)				700	710	711	
10	QPSK	1	0	2458	2458	2458	25.7
10	QPSK	1	25	2458	2464	2460	
10	QPSK	1	49	2462	2466	2462	
10	QPSK	25	0	2384	2384	2384	24.7
10	QPSK	25	12	2378	2373	2371	
10	QPSK	25	25	2380	2379	2380	
10	HQAM	1	0	2390	2390	2390	24.7
10	HQAM	1	25	2401	2401	2400	
10	HQAM	1	49	2401	2402	2402	
10	HQAM	25	0	2265	2264	2264	23.7
10	HQAM	25	12	2278	2271	2271	
10	HQAM	25	25	2277	2281	2276	
10	HQAM	50	0	2269	2270	2267	23.7
10	HQAM	50	0	2286	2276	2274	
10	HQAM	1	25	2252	2257	2250	
10	HQAM	1	49	2252	2258	2263	22.7
10	HQAM	25	0	2167	2167	2167	
10	HQAM	25	12	2184	2178	2178	
10	HQAM	25	25	2180	2182	2182	20.7
10	HQAM	50	0	2170	2171	2171	
10	256QAM	1	0	1944	1937	1933	
10	256QAM	1	25	1950	1948	1951	20.7
10	256QAM	1	49	1958	1950	1958	
10	256QAM	25	0	1946	1944	1946	
10	256QAM	25	12	1956	1952	1943	20.7
10	256QAM	25	25	1958	1954	1952	
10	256QAM	50	0	1948	1948	1948	
Channel							
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	2457	2456	2455	25.7
5	QPSK	1	12	2460	2461	2463	
5	QPSK	1	24	2464	2461	2464	
5	QPSK	12	0	2387	2389	2386	24.7
5	QPSK	12	12	2378	2374	2369	
5	QPSK	12	13	2377	2376	2373	
5	QPSK	25	0	2376	2376	2366	24.7
5	HQAM	1	0	2391	2393	2391	
5	HQAM	1	12	2397	2403	2398	
5	HQAM	1	24	2408	2404	2401	23.7
5	HQAM	12	0	2270	2272	2272	
5	HQAM	12	7	2278	2274	2273	
5	HQAM	12	13	2278	2277	2274	23.7
5	HQAM	25	0	2274	2275	2269	
5	HQAM	1	0	2289	2287	2288	
5	HQAM	1	12	2290	2296	2290	22.7
5	HQAM	1	24	2294	2300	2293	
5	HQAM	12	0	2173	2177	2178	
5	HQAM	12	7	2181	2179	2175	22.7
5	HQAM	12	13	2179	2185	2175	
5	HQAM	25	0	2179	2174	2170	
5	256QAM	1	0	1941	1929	1924	20.7
5	256QAM	1	12	1949	1946	1944	
5	256QAM	1	24	1946	1950	1950	
5	256QAM	12	0	1939	1934	1941	20.7
5	256QAM	12	7	1938	1947	1940	
5	256QAM	12	13	1933	1934	1932	
5	256QAM	25	0	1937	1941	1942	



Band 30_Ant 2						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2310		
10	QPSK	1	25	2310		
10	QPSK	1	49	2310		
10	QPSK	25	0	2302		
10	QPSK	25	12	2302		
10	QPSK	25	25	2302		
10	QPSK	50	0	2298		
10	QPSK	50	12	2298		
10	QPSK	50	25	2298		
10	HQAM	1	0	2244		
10	HQAM	1	25	2244		
10	HQAM	1	49	2244		
10	HQAM	25	0	2138		
10	HQAM	25	12	2138		
10	HQAM	25	25	2138		
10	HQAM	50	0	2117		
10	HQAM	50	12	2117		
10	HQAM	50	25	2117		
10	HQAM	1	0	2130		
10	HQAM	1	25	2130		
10	HQAM	1	49	2130		
10	HQAM	25	0	2032		
10	HQAM	25	12	2032		
10	HQAM	25	25	2032		
10	HQAM	50	0	2018		
10	256QAM	1	0	1880		
10	256QAM	1	25	1880		
10	256QAM	1	49	1880		
10	256QAM	25	0	1878		
10	256QAM	25	12	1878		
10	256QAM	25	25	1878		
10	256QAM	50	0	1877		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2307.5	2310	2312.5
5	QPSK	1	0	2297	2301	2305
5	QPSK	1	12	2314	2314	2312
5	QPSK	1	24	2313	2313	2308
5	QPSK	12	0	2210	2212	2218
5	QPSK	12	12	2223	2217	2221
5	QPSK	12	12	2222	2217	2219
5	QPSK	25	0	2218	2214	2219
5	HQAM	1	0	2232	2234	2230
5	HQAM	1	12	2242	2240	2238
5	HQAM	1	24	2244	2240	2238
5	HQAM	12	0	2115	2114	2119
5	HQAM	12	7	2124	2120	2122
5	HQAM	12	13	2125	2118	2122
5	HQAM	25	0	2121	2118	2120
5	HQAM	1	0	2128	2132	2134
5	HQAM	1	12	2132	2138	2133
5	HQAM	1	24	2138	2138	2131
5	HQAM	12	0	2017	2021	2020
5	HQAM	12	7	2020	2023	2028
5	HQAM	12	13	2030	2025	2024
5	HQAM	25	0	2025	2017	2020
5	HQAM	25	12	1875	1878	1877
5	256QAM	1	12	1887	1890	1885
5	256QAM	1	24	1886	1885	1887
5	256QAM	12	0	1870	1869	1869
5	256QAM	12	7	1863	1872	1864
5	256QAM	12	13	1865	1875	1871
5	256QAM	25	0	1875	1872	1870



Band 71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up (dB)		
Channel				693	693	693			
Frequency (MHz)				693	693	693			
20	QPSK	1	0	2455	2457	2459			
20	QPSK	1	49	2458	2453	2451			20.7
20	QPSK	1	99	2451	2453	2450			
20	QPSK	61	0	2396	2396	2398			
20	QPSK	50	24	2371	2361	2361			24.7
20	QPSK	50	50	2370	2364	2363			
20	QPSK	100	0	2370	2360	2358			
20	HQAM	1	0	2402	2392	2382			24.7
20	HQAM	1	49	2392	2389	2385			
20	HQAM	1	99	2389	2386	2385			
20	HQAM	50	0	2270	2268	2267			
20	HQAM	50	24	2273	2265	2261			23.7
20	HQAM	50	50	2270	2268	2264			
20	HQAM	100	0	2270	2262	2259			
20	HQAM	1	0	2284	2275	2274			
20	HQAM	1	49	2281	2269	2271			23.7
20	HQAM	1	99	2278	2277	2276			
20	HQAM	50	0	2158	2167	2161			
20	HQAM	50	24	2173	2165	2165			22.7
20	HQAM	50	50	2171	2166	2165			
20	HQAM	100	0	2174	2162	2160			
20	SSBQAM	1	0	1958	1950	1937			20.7
20	SSBQAM	1	49	1941	1936	1939			
20	SSBQAM	1	99	1945	1935	1935			
20	SSBQAM	50	0	1941	1947	1944			
20	SSBQAM	50	24	1935	1944	1938			20.7
20	SSBQAM	50	50	1940	1938	1939			
20	SSBQAM	100	0	1943	1943	1939			
Channel				133109	133109	133109			Turn-up (dB)
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	2464	2457	2453			20.7
15	QPSK	1	49	2456	2453	2452			
15	QPSK	1	74	2453	2458	2453			
15	QPSK	30	0	2388	2364	2360			24.7
15	QPSK	30	20	2371	2368	2369			
15	QPSK	30	39	2384	2383	2381			
15	QPSK	75	0	2372	2369	2366			
15	HQAM	1	0	2401	2393	2394			24.7
15	HQAM	1	39	2384	2390	2388			
15	HQAM	1	74	2382	2382	2384			
15	HQAM	30	0	2288	2284	2282			23.7
15	HQAM	30	20	2271	2269	2268			
15	HQAM	30	39	2284	2282	2283			
15	HQAM	75	0	2273	2269	2267			
15	HQAM	1	0	2247	2279	2275			23.7
15	HQAM	1	49	2263	2278	2278			
15	HQAM	1	74	2275	2283	2277			
15	HQAM	30	0	2148	2160	2163			22.7
15	HQAM	30	20	2152	2171	2171			
15	HQAM	30	39	2168	2185	2185			
15	HQAM	75	0	2170	2170	2168			20.7
15	SSBQAM	1	0	1949	1952	1937			
15	SSBQAM	1	39	1933	1928	1932			
15	SSBQAM	1	74	1946	1946	1939			20.7
15	SSBQAM	30	0	1935	1941	1937			
15	SSBQAM	30	20	1932	1943	1939			
15	SSBQAM	30	39	1938	1938	1935			
15	SSBQAM	75	0	1938	1938	1931			
Channel				133112	133272	133422			Turn-up (dB)
Frequency (MHz)				692.5	692.5	692.5			
10	QPSK	1	0	2452	2457	2449			20.7
10	QPSK	1	25	2455	2445	2450			
10	QPSK	1	49	2452	2451	2445			
10	QPSK	25	0	2372	2358	2353			24.7
10	QPSK	25	12	2371	2358	2359			
10	QPSK	25	25	2366	2352	2361			
10	QPSK	50	0	2371	2365	2356			
10	HQAM	1	0	2405	2391	2384			24.7
10	HQAM	1	25	2392	2386	2389			
10	HQAM	1	49	2388	2390	2383			
10	HQAM	25	0	2272	2266	2264			23.7
10	HQAM	25	12	2271	2257	2254			
10	HQAM	25	25	2264	2260	2261			
10	HQAM	50	0	2271	2263	2264			23.7
10	HQAM	1	0	2254	2278	2273			
10	HQAM	1	25	2258	2270	2260			
10	HQAM	1	49	2266	2281	2271			
10	HQAM	25	0	2132	2159	2165			22.7
10	HQAM	25	12	2133	2160	2162			
10	HQAM	25	25	2128	2165	2164			
10	HQAM	50	0	2141	2168	2157			20.7
10	SSBQAM	1	0	1955	1957	1939			
10	SSBQAM	1	25	1938	1928	1934			
10	SSBQAM	1	49	1937	1945	1955			20.7
10	SSBQAM	25	0	1934	1942	1937			
10	SSBQAM	25	12	1932	1935	1932			
10	SSBQAM	25	25	1940	1928	1928			20.7
10	SSBQAM	50	0	1938	1933	1922			
Channel				133147	133247	133447			Turn-up (dB)
Frequency (MHz)				692.5	692.5	692.5			
5	QPSK	1	0	2463	2457	2455			20.7
5	QPSK	1	12	2461	2454	2456			
5	QPSK	1	24	2458	2454	2447			
5	QPSK	10	0	2370	2353	2364			24.7
5	QPSK	12	7	2373	2364	2370			
5	QPSK	12	15	2368	2360	2361			
5	QPSK	24	0	2370	2364	2359			
5	HQAM	1	0	2402	2392	2389			24.7
5	HQAM	1	12	2395	2390	2386			
5	HQAM	1	24	2389	2388	2383			
5	HQAM	12	0	2282	2268	2268			23.7
5	HQAM	12	12	2276	2268	2270			
5	HQAM	12	15	2289	2261	2261			
5	HQAM	25	0	2273	2265	2262			
5	HQAM	1	0	2223	2260	2279			23.7
5	HQAM	1	12	2248	2285	2281			
5	HQAM	1	24	2247	2283	2278			
5	HQAM	12	0	2168	2164	2160			22.7
5	HQAM	12	7	2149	2170	2173			
5	HQAM	12	15	2158	2164	2160			
5	HQAM	25	0	2131	2167	2162			
5	SSBQAM	1	0	1955	1952	1931			20.7
5	SSBQAM	1	12	1937	1928	1936			
5	SSBQAM	1	24	1938	1947	1955			
5	SSBQAM	12	0	1935	1945	1934			20.7
5	SSBQAM	12	7	1937	1938	1932			
5	SSBQAM	12	15	1936	1936	1920			
5	SSBQAM	25	0	1937	1935	1931			



Band 5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up (dBm)		
Channel									
Frequency (MHz)									
ISD									
10	QPSK	1	0	2347	2347	2348	25		
10	QPSK	1	25	2351	2356	2353	25		
10	QPSK	1	49	2358	2353	2345	25		
10	QPSK	25	0	2263	2266	2263	24		
10	QPSK	25	12	2272	2267	2262	24		
10	QPSK	25	25	2288	2270	2264	24		
10	QPSK	25	0	2272	2266	2259	24		
10	QPSK	1	0	2291	2292	2297	24		
10	HQAM	1	25	2292	2298	2292	24		
10	HQAM	1	49	2298	2293	2283	24		
10	HQAM	25	0	2159	2165	2158	23		
10	HQAM	25	0	2171	2167	2163	23		
10	HQAM	25	25	2168	2171	2162	23		
10	HQAM	50	0	2170	2184	2182	23		
10	HQAM	1	0	2174	2171	2181	23		
10	HQAM	1	25	2158	2150	2175	23		
10	HQAM	1	49	2187	2183	2177	23		
10	HQAM	25	0	2066	2065	2066	22		
10	HQAM	25	12	2077	2072	2067	22		
10	HQAM	25	25	2071	2074	2065	22		
10	HQAM	50	0	2073	2069	2065	22		
10	SSBQAM	1	0	1848	1883	1858	20		
10	SSBQAM	1	25	1853	1850	1851	20		
10	SSBQAM	1	49	1850	1853	1854	20		
10	SSBQAM	25	0	1847	1848	1845	20		
10	SSBQAM	25	12	1848	1842	1839	20		
10	SSBQAM	25	25	1838	1848	1848	20		
10	SSBQAM	50	0	1851	1849	1844	20		
Channel									
Frequency (MHz)									
ISD									
5	QPSK	1	0	2361	2362	2360	25		
5	QPSK	1	25	2366	2363	2362	25		
5	QPSK	1	24	2357	2359	2353	25		
5	QPSK	12	0	2263	2273	2265	24		
5	QPSK	12	0	2270	2274	2268	24		
5	QPSK	12	12	2285	2287	2287	24		
5	QPSK	25	0	2268	2272	2258	24		
5	HQAM	1	0	2294	2291	2293	24		
5	HQAM	1	12	2292	2299	2284	24		
5	HQAM	1	24	2294	2298	2290	24		
5	HQAM	12	0	2187	2175	2187	23		
5	HQAM	12	7	2171	2177	2181	23		
5	HQAM	12	13	2166	2169	2156	23		
5	HQAM	25	0	2172	2174	2160	23		
5	HQAM	1	0	2188	2195	2186	23		
5	HQAM	1	25	2183	2190	2178	23		
5	HQAM	1	24	2188	2191	2192	23		
5	HQAM	12	0	2074	2080	2055	22		
5	HQAM	12	7	2078	2081	2072	22		
5	HQAM	12	13	2071	2075	2028	22		
5	HQAM	25	0	2073	2076	2033	22		
5	SSBQAM	1	0	1838	1838	1838	20		
5	SSBQAM	1	12	1850	1840	1853	20		
5	SSBQAM	1	24	1848	1847	1846	20		
5	SSBQAM	12	0	1840	1844	1840	20		
5	SSBQAM	12	7	1844	1837	1836	20		
5	SSBQAM	12	13	1835	1836	1846	20		
5	SSBQAM	25	0	1843	1845	1838	20		
Channel									
Frequency (MHz)									
ISD									
3	QPSK	1	0	2339	2347	2351	25		
3	QPSK	1	8	2349	2353	2348	25		
3	QPSK	8	0	2351	2351	2345	25		
3	QPSK	8	0	2285	2288	2288	24		
3	QPSK	8	4	2288	2288	2284	24		
3	QPSK	8	0	2283	2285	2288	24		
3	QPSK	16	0	2262	2260	2250	24		
3	HQAM	1	0	2291	2292	2290	24		
3	HQAM	1	8	2287	2297	2286	24		
3	HQAM	1	14	2294	2290	2273	24		
3	HQAM	8	0	2166	2169	2167	23		
3	HQAM	8	4	2184	2162	2163	23		
3	HQAM	8	7	2161	2166	2157	23		
3	HQAM	16	0	2166	2164	2152	23		
3	HQAM	1	0	2185	2187	2174	23		
3	HQAM	1	8	2178	2183	2169	23		
3	HQAM	1	14	2181	2179	2166	23		
3	HQAM	8	0	2081	2080	2081	22		
3	HQAM	8	4	2078	2072	2089	22		
3	HQAM	8	7	2083	2072	2041	22		
3	HQAM	16	0	2065	2059	2059	22		
3	SSBQAM	1	0	1846	1847	1849	20		
3	SSBQAM	1	8	1843	1847	1851	20		
3	SSBQAM	1	14	1845	1863	1845	20		
3	SSBQAM	8	0	1838	1844	1836	20		
3	SSBQAM	8	4	1846	1837	1836	20		
3	SSBQAM	8	7	1834	1842	1843	20		
3	SSBQAM	16	0	1848	1844	1835	20		
Channel									
Frequency (MHz)									
ISD									
1.4	QPSK	1	0	2345	2352	2343	25		
1.4	QPSK	1	3	2354	2358	2348	25		
1.4	QPSK	1	5	2347	2351	2339	25		
1.4	QPSK	3	0	2353	2352	2347	25		
1.4	QPSK	3	1	2357	2352	2350	25		
1.4	QPSK	3	3	2353	2357	2348	25		
1.4	QPSK	6	0	2268	2264	2251	24		
1.4	HQAM	1	0	2279	2284	2278	24		
1.4	HQAM	1	5	2286	2284	2277	24		
1.4	HQAM	1	5	2282	2288	2272	24		
1.4	HQAM	3	0	2283	2284	2284	24		
1.4	HQAM	3	1	2286	2275	2280	24		
1.4	HQAM	3	1	2281	2283	2249	24		
1.4	HQAM	6	0	2184	2171	2158	23		
1.4	HQAM	1	0	2174	2175	2139	23		
1.4	HQAM	1	3	2184	2181	2144	23		
1.4	HQAM	1	6	2178	2182	2139	23		
1.4	HQAM	3	0	2178	2174	2132	23		
1.4	HQAM	3	1	2178	2184	2144	23		
1.4	HQAM	6	0	2173	2175	2147	23		
1.4	SSBQAM	1	0	1846	1847	1851	22		
1.4	SSBQAM	1	5	1842	1853	1854	22		
1.4	SSBQAM	3	0	1845	1847	1841	20		
1.4	SSBQAM	3	1	1839	1832	1838	20		
1.4	SSBQAM	3	1	1834	1839	1841	20		
1.4	SSBQAM	6	0	1851	1840	1842	20		



Band 7_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up limit (min)			
Channel				2495.0	2495.0	2495.0				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	23.87	23.84	23.99	20.5			
20	QPSK	1	49	23.93	23.99	24.04				
20	QPSK	1	99	23.99	24.06	24.02	24.5			
20	QPSK	60	0	22.97	23.02	23.02				
20	QPSK	50	24	23.10	23.09	23.08	24.5			
20	QPSK	50	50	23.11	23.16	23.13				
20	QPSK	100	0	22.07	22.07	22.05	24.5			
20	HQAM	1	0	23.27	23.30	23.29				
20	HQAM	1	49	23.29	23.28	23.36	23.5			
20	HQAM	1	99	23.33	23.40	23.34				
20	HQAM	50	0	21.98	22.04	22.02	23.5			
20	HQAM	50	24	22.10	22.10	22.06				
20	HQAM	50	50	22.13	22.17	22.14	23.5			
20	HQAM	100	0	22.08	22.07	22.03				
20	HQAM	1	0	22.04	22.11	22.10	23.5			
20	HQAM	1	49	22.10	22.26	22.21				
20	HQAM	1	99	22.24	22.32	22.27	22.5			
20	HQAM	60	0	21.08	21.08	21.05				
20	HQAM	50	24	21.12	21.11	21.08	20.5			
20	HQAM	50	50	21.15	21.21	21.15				
20	HQAM	100	0	21.12	21.05	21.07	20.5			
20	SSBQAM	1	0	19.20	19.27	19.13				
20	SSBQAM	1	49	19.20	19.16	19.22	20.5			
20	SSBQAM	1	99	19.12	19.17	19.11				
20	SSBQAM	50	0	19.12	19.12	19.07	20.5			
20	SSBQAM	50	24	19.22	19.14	19.10				
20	SSBQAM	50	50	19.17	19.16	19.13	20.5			
20	SSBQAM	100	0	19.23	19.11	19.05				
Channel				2575.0	2575.0	2575.0				
Frequency (MHz)				2597.5	2630	2662.5				
15	QPSK	1	0	23.83	23.84	23.95	20.5			
15	QPSK	1	49	23.86	23.90	23.92				
15	QPSK	1	74	23.97	24.04	24.04	24.5			
15	QPSK	39	0	22.95	22.98	23.00				
15	QPSK	39	29	23.08	23.04	23.04	24.5			
15	QPSK	39	39	23.08	23.13	23.09				
15	QPSK	75	0	23.02	23.01	23.01	24.5			
15	HQAM	1	0	23.23	23.30	23.29				
15	HQAM	1	39	23.24	23.36	23.30	23.5			
15	HQAM	1	74	23.31	23.34	23.24				
15	HQAM	39	0	21.88	22.04	22.01	23.5			
15	HQAM	39	20	22.10	22.02	21.97				
15	HQAM	39	39	22.10	22.09	22.14	23.5			
15	HQAM	75	0	21.98	22.05	21.94				
15	HQAM	1	0	22.07	22.08	22.06	23.5			
15	HQAM	1	74	22.14	22.25	22.17				
15	HQAM	39	0	20.95	20.98	21.02	22.5			
15	HQAM	39	20	21.03	21.02	21.06				
15	HQAM	39	39	21.12	21.21	21.05	20.5			
15	HQAM	75	0	21.99	21.05	21.00				
15	SSBQAM	1	0	19.17	19.25	19.13	20.5			
15	SSBQAM	1	39	19.16	19.12	19.19				
15	SSBQAM	39	0	19.04	19.12	19.04	20.5			
15	SSBQAM	39	20	19.14	19.05	19.05				
15	SSBQAM	39	39	19.18	19.14	19.08	20.5			
15	SSBQAM	75	0	19.23	19.04	19.07				
Channel				2690.0	21100.0	21600.0				
Frequency (MHz)				2690.0	2690.0	2690.0				
10	QPSK	1	0	23.89	23.92	23.99	20.5			
10	QPSK	1	25	23.93	23.99	24.04				
10	QPSK	1	49	23.96	24.01	24.06	24.5			
10	QPSK	25	0	22.91	22.99	22.97				
10	QPSK	25	12	23.07	23.06	23.00	24.5			
10	QPSK	25	25	23.03	23.09	23.03				
10	QPSK	50	0	22.99	23.06	23.01	24.5			
10	HQAM	1	0	23.17	23.24	23.26				
10	HQAM	1	25	23.27	23.34	23.35	23.5			
10	HQAM	1	49	23.31	23.39	23.31				
10	HQAM	25	0	22.05	22.05	21.96	23.5			
10	HQAM	25	12	22.07	22.08	22.06				
10	HQAM	25	25	22.08	22.10	22.07	23.5			
10	HQAM	50	0	22.02	22.04	22.03				
10	HQAM	1	0	22.00	22.13	22.10	23.5			
10	HQAM	1	25	22.06	22.16	22.18				
10	HQAM	1	49	22.14	22.31	22.25	22.5			
10	HQAM	25	0	20.91	21.02	20.96				
10	HQAM	25	12	21.04	21.04	21.02	22.5			
10	HQAM	25	25	21.08	21.14	21.09				
10	HQAM	50	0	21.10	21.05	21.02	20.5			
10	SSBQAM	1	0	19.15	19.19	19.10				
10	SSBQAM	1	25	19.20	19.07	19.22	20.5			
10	SSBQAM	1	49	19.19	19.09	19.03				
10	SSBQAM	25	0	19.03	19.05	19.06	20.5			
10	SSBQAM	25	12	19.21	19.07	19.09				
10	SSBQAM	25	25	19.16	19.08	19.08	20.5			
10	SSBQAM	50	0	19.18	19.04	19.09				
Channel				2677.5	21900.0	21425.0				
Frequency (MHz)				2697.5	2695.0	2697.5				
5	QPSK	1	0	23.84	23.83	23.90	20.5			
5	QPSK	1	10	23.93	23.93	23.88				
5	QPSK	1	24	23.89	24.02	23.95	24.5			
5	QPSK	15	0	22.98	22.93	22.99				
5	QPSK	12	7	23.09	23.02	22.96	24.5			
5	QPSK	12	15	23.11	23.14	23.13				
5	QPSK	24	0	23.04	22.98	23.01	24.5			
5	HQAM	1	0	23.17	23.23	23.19				
5	HQAM	1	10	23.25	23.33	23.30	24.5			
5	HQAM	1	24	23.32	23.34	23.34				
5	HQAM	12	0	21.94	21.98	21.98	23.5			
5	HQAM	12	13	22.03	22.02	22.05				
5	HQAM	12	13	22.10	22.15	22.14	23.5			
5	HQAM	25	0	22.00	22.07	21.95				
5	HQAM	1	0	22.01	22.10	22.09	23.5			
5	HQAM	1	12	22.10	22.21	22.15				
5	HQAM	11	24	22.19	22.31	22.19	22.5			
5	HQAM	12	0	20.91	20.99	20.99				
5	HQAM	12	7	21.07	21.02	21.03	22.5			
5	HQAM	12	13	21.08	21.17	21.08				
5	HQAM	25	0	21.04	21.02	21.07	20.5			
5	SSBQAM	1	0	19.11	19.25	19.11				
5	SSBQAM	1	10	19.25	19.06	19.15	20.5			
5	SSBQAM	1	24	19.08	19.10	19.03				
5	SSBQAM	12	0	19.08	19.06	19.06	20.5			
5	SSBQAM	12	13	19.22	19.13	19.00				
5	SSBQAM	12	13	19.12	19.07	19.13	20.5			
5	SSBQAM	25	0	19.22	19.07	19.02				



Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
10	QPSK	1	0	2448	2450	2459			
10	QPSK	1	26	2439	2442	2440			25.7
10	QPSK	1	49	2450	2443	2448			
10	QPSK	26	0	2353	2354	2353			
10	QPSK	26	12	2360	2353	2353			24.7
10	QPSK	26	25	2358	2359	2360			
10	QPSK	50	0	2381	2353	2353			
10	QPSK	1	0	2382	2376	2378			
10	HQAM	1	26	2381	2382	2380			24.7
10	HQAM	1	49	2387	2385	2378			
10	HQAM	26	0	2254	2255	2253			
10	HQAM	26	12	2261	2255	2254			23.7
10	HQAM	26	25	2259	2260	2257			
10	HQAM	50	0	2280	2255	2252			
10	HQAM	1	0	2254	2254	2262			
10	HQAM	1	26	2271	2276	2274			23.7
10	HQAM	1	49	2273	2254	2239			
10	HQAM	26	0	2127	2136	2136			
10	HQAM	26	12	2149	2155	2158			22.7
10	HQAM	26	25	2153	2160	2161			
10	HQAM	50	0	2141	2155	2159			
10	256QAM	1	0	1947	1986	1947			20.7
10	256QAM	1	26	1953	1973	1949			
10	256QAM	1	49	1964	1955	1937			
10	256QAM	26	0	1944	1946	1940			
10	256QAM	26	12	1945	1946	1946			20.7
10	256QAM	26	25	1939	1941	1943			
10	256QAM	50	0	1951	1943	1941			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
5	QPSK	1	0	2448	2447	2439			
5	QPSK	1	26	2448	2448	2440			25.7
5	QPSK	1	24	2447	2449	2446			
5	QPSK	12	0	2362	2354	2355			
5	QPSK	12	6	2355	2359	2359			24.7
5	QPSK	12	12	2355	2354	2351			
5	QPSK	25	0	2358	2352	2352			
5	HQAM	1	0	2383	2383	2373			
5	HQAM	1	12	2380	2379	2373			24.7
5	HQAM	1	24	2382	2380	2376			
5	HQAM	12	0	2266	2262	2259			
5	HQAM	12	6	2258	2254	2254			23.7
5	HQAM	12	12	2262	2259	2254			
5	HQAM	25	0	2259	2253	2253			
5	HQAM	1	0	2224	2237	2286			
5	HQAM	1	0	2248	2274	2299			23.7
5	HQAM	1	24	2223	2273	2249			
5	HQAM	12	0	2135	2194	2160			
5	HQAM	12	6	2145	2187	2161			22.7
5	HQAM	12	12	2135	2180	2142			
5	HQAM	25	0	2111	2157	2150			
5	256QAM	1	0	1938	1936	1945			
5	256QAM	1	12	1950	1984	1939			20.7
5	256QAM	1	24	1947	1947	1954			
5	256QAM	12	0	1943	1938	1932			
5	256QAM	12	6	1938	1932	1945			20.7
5	256QAM	12	12	1938	1938	1934			
5	256QAM	25	0	1947	1933	1933			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
3	QPSK	1	0	2448	2437	2433			
3	QPSK	1	6	2434	2442	2438			25.7
3	QPSK	6	0	2443	2433	2436			
3	QPSK	6	0	2343	2354	2348			
3	QPSK	6	4	2352	2349	2351			24.7
3	QPSK	6	2	2349	2358	2351			
3	QPSK	16	0	2358	2351	2345			
3	HQAM	1	0	2376	2386	2370			24.7
3	HQAM	1	6	2376	2379	2372			
3	HQAM	1	14	2385	2383	2380			
3	HQAM	6	0	2252	2251	2249			
3	HQAM	6	4	2260	2245	2242			23.7
3	HQAM	6	7	2250	2250	2254			
3	HQAM	16	0	2267	2250	2245			
3	HQAM	1	0	2247	2255	2267			23.7
3	HQAM	1	6	2266	2272	2274			
3	HQAM	1	14	2266	2248	2233			
3	HQAM	6	0	2117	2131	2155			
3	HQAM	6	4	2140	2152	2159			22.7
3	HQAM	6	7	2147	2153	2153			
3	HQAM	16	0	2131	2149	2150			
3	256QAM	1	0	1944	1957	1941			
3	256QAM	1	6	1949	1958	1948			20.7
3	256QAM	1	14	1958	1954	1949			
3	256QAM	6	0	1943	1936	1930			
3	256QAM	6	4	1943	1939	1943			20.7
3	256QAM	6	7	1937	1941	1942			
3	256QAM	16	0	1943	1937	1939			
Channel									
Frequency (MHz)									
707.5 717.5 721.5									
1.4	QPSK	1	0	2444	2433	2436			
1.4	QPSK	1	3	2444	2442	2438			25.7
1.4	QPSK	1	5	2437	2436	2429			
1.4	QPSK	3	0	2442	2438	2437			
1.4	QPSK	3	1	2449	2442	2440			
1.4	QPSK	3	2	2443	2443	2437			24.7
1.4	QPSK	6	0	2359	2347	2343			
1.4	HQAM	1	0	2376	2387	2371			
1.4	HQAM	1	3	2376	2386	2377			24.7
1.4	HQAM	1	5	2370	2369	2363			
1.4	HQAM	3	0	2353	2347	2347			
1.4	HQAM	3	1	2366	2351	2350			
1.4	HQAM	3	1	2351	2350	2343			
1.4	HQAM	6	0	2257	2256	2249			23.7
1.4	HQAM	1	0	2234	2261	2237			
1.4	HQAM	1	3	2245	2272	2234			
1.4	HQAM	1	6	2247	2263	2220			23.7
1.4	HQAM	3	0	2228	2256	2239			
1.4	HQAM	3	1	2228	2261	2237			
1.4	HQAM	6	0	2267	2261	2258			
1.4	HQAM	6	0	2123	2150	2123			22.7
1.4	256QAM	1	0	1938	1958	1939			
1.4	256QAM	1	3	1945	1971	1941			
1.4	256QAM	1	5	1951	1954	1953			20.7
1.4	256QAM	3	0	1943	1943	1936			
1.4	256QAM	3	1	1938	1942	1937			
1.4	256QAM	3	1	1939	1931	1938			
1.4	256QAM	6	0	1949	1937	1939			20.7



Band 13_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2153		
10	QPSK	1	25	2151		
10	QPSK	1	49	2157		
10	QPSK	25	0	2240		
10	QPSK	25	12	2241		
10	QPSK	25	25	2245		
10	QPSK	50	0	2241		
10	QPSK	50	0	2242		
10	HQAM	1	25	2246		
10	HQAM	1	49	2248		
10	HQAM	25	0	2151		
10	HQAM	25	12	2156		
10	HQAM	25	25	2160		
10	HQAM	50	0	2154		
10	HQAM	50	0	2156		
10	HQAM	1	25	2151		
10	HQAM	1	49	2178		
10	HQAM	25	0	2095		
10	HQAM	25	12	2089		
10	HQAM	25	25	2071		
10	HQAM	50	0	2088		
10	256QAM	1	0	1825		
10	256QAM	1	25	1830		
10	256QAM	1	49	1830		
10	256QAM	25	0	1841		
10	256QAM	25	12	1846		
10	256QAM	25	25	1859		
10	256QAM	50	0	1844		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2345	2348	2322
5	QPSK	1	24	2350	2354	2334
5	QPSK	1	24	2355	2356	2331
5	QPSK	12	0	2258	2259	2232
5	QPSK	12	12	2262	2263	2240
5	QPSK	12	12	2265	2267	2238
5	QPSK	25	0	2265	2263	2237
5	HQAM	1	0	2284	2278	2250
5	HQAM	1	12	2275	2252	2248
5	HQAM	1	24	2284	2288	2251
5	HQAM	12	0	2182	2184	2136
5	HQAM	12	7	2188	2184	2143
5	HQAM	12	13	2184	2171	2142
5	HQAM	25	0	2170	2163	2141
5	HQAM	1	0	2173	2168	2142
5	HQAM	1	24	2168	2161	2148
5	HQAM	1	24	2177	2181	2148
5	HQAM	12	0	2086	2070	2043
5	HQAM	12	7	2072	2067	2045
5	HQAM	12	13	2071	2075	2043
5	HQAM	25	0	2073	2066	2042
5	256QAM	1	0	1816	1824	1822
5	256QAM	1	12	1843	1845	1847
5	256QAM	1	24	1865	1867	1866
5	256QAM	12	0	1837	1835	1838
5	256QAM	12	7	1848	1836	1840
5	256QAM	12	13	1838	1835	1834
5	256QAM	25	0	1837	1834	1841



Band 14_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
700						
10	QPSK	1	0	23.68		
10	QPSK	1	25	23.60		
10	QPSK	1	49	23.58		
10	QPSK	25	0	22.63		
10	QPSK	25	12	22.65		
10	QPSK	25	25	22.74		
10	QPSK	50	0	22.97		
10	16QAM	1	0	23.92		
10	16QAM	1	25	22.90		
10	16QAM	1	49	22.97		
10	16QAM	25	0	21.85		
10	16QAM	25	12	21.88		
10	16QAM	25	25	21.73		
10	16QAM	50	0	21.88		
10	16QAM	1	0	21.90		
10	16QAM	1	25	21.95		
10	16QAM	1	49	21.90		
10	16QAM	25	0	20.87		
10	16QAM	25	12	20.89		
10	16QAM	25	25	20.76		
10	16QAM	50	0	20.87		
10	256QAM	1	0	18.45		
10	256QAM	1	25	18.50		
10	256QAM	1	49	18.74		
10	256QAM	25	0	18.50		
10	256QAM	25	12	18.44		
10	256QAM	25	25	18.47		
10	256QAM	50	0	18.50		
Channel						
Frequency (MHz)						
700.5						
5	QPSK	1	0	23.58	23.55	23.56
5	QPSK	1	25	23.63	23.66	23.64
5	QPSK	1	49	23.65	23.64	23.56
5	QPSK	12	0	22.71	22.65	22.84
5	QPSK	12	13	22.76	22.73	22.70
5	QPSK	12	13	22.71	22.73	22.88
5	QPSK	25	0	22.89	22.86	22.83
5	16QAM	1	0	22.91	22.92	22.97
5	16QAM	1	12	23.00	23.02	22.98
5	16QAM	1	24	22.98	23.00	22.90
5	16QAM	12	0	21.73	21.68	21.64
5	16QAM	12	7	21.77	21.77	21.78
5	16QAM	12	13	21.73	21.72	21.86
5	16QAM	25	0	21.71	21.68	21.64
5	16QAM	1	0	21.87	21.89	21.85
5	16QAM	1	25	21.93	22.00	21.94
5	16QAM	1	24	21.90	21.95	21.92
5	16QAM	12	0	20.80	20.71	20.89
5	16QAM	12	7	20.78	20.83	20.75
5	16QAM	12	13	20.75	20.76	20.89
5	16QAM	25	0	20.72	20.87	20.89
5	256QAM	1	0	18.38	18.37	18.42
5	256QAM	1	12	18.55	18.48	18.55
5	256QAM	1	24	18.74	18.72	18.65
5	256QAM	12	7	18.38	18.34	18.35
5	256QAM	12	13	18.47	18.46	18.30
5	256QAM	25	0	18.40	18.47	18.44



Band 17_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)	
Channel				700	710	711		
Frequency (MHz)				700.5	710	713.5		
10	QPSK	1	0	2335	2331	2332	25	
10	QPSK	1	24	2338	2337	2337		
10	QPSK	1	48	2337	2345	2338		
10	QPSK	24	0	2238	2230	2241	24	
10	QPSK	24	12	2232	2250	2248		
10	QPSK	24	24	2239	2237	2235		
10	QPSK	50	0	2247	2248	2245	24	
10	QPSK	50	0	2270	2288	2289		
10	QPSK	50	0	2275	2278	2274		
10	16QAM	1	48	2278	2280	2277	23	
10	16QAM	24	0	2141	2141	2141		
10	16QAM	24	12	2155	2148	2147		
10	16QAM	24	24	2157	2154	2151	23	
10	16QAM	50	0	2144	2148	2142		
10	16QAM	50	0	2155	2154	2150		
10	16QAM	1	24	2157	2159	2158	22	
10	16QAM	1	48	2153	2160	2148		
10	16QAM	24	0	2043	2043	2044		
10	16QAM	24	12	2039	2051	2051	20	
10	16QAM	24	24	2039	2038	2038		
10	16QAM	50	0	2049	2047	2045		
10	256QAM	1	0	1834	1839	1822	20	
10	256QAM	1	24	1843	1840	1841		
10	256QAM	1	48	1854	1847	1838		
10	256QAM	24	0	1831	1827	1830	20	
10	256QAM	24	12	1830	1840	1834		
10	256QAM	24	24	1840	1837	1839		
10	256QAM	50	0	1827	1840	1831	20	
Channel				2331.5	2330.5	2332.5		
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	2333	2328	2327	25	
5	QPSK	1	24	2343	2342	2330		
5	QPSK	1	24	2343	2344	2340		
5	QPSK	12	0	2244	2246	2241	24	
5	QPSK	12	12	2251	2248	2243		
5	QPSK	12	12	2253	2252	2245		
5	QPSK	24	0	2249	2247	2242	24	
5	16QAM	1	0	2265	2267	2266		
5	16QAM	1	12	2274	2278	2270		
5	16QAM	1	24	2278	2278	2275	23	
5	16QAM	12	0	2148	2147	2146		
5	16QAM	12	7	2153	2152	2145		
5	16QAM	12	13	2154	2152	2147	23	
5	16QAM	24	0	2151	2148	2144		
5	16QAM	1	0	2157	2166	2163		
5	16QAM	1	24	2166	2170	2164	22	
5	16QAM	1	24	2179	2178	2167		
5	16QAM	12	0	2030	2040	2047		
5	16QAM	12	7	2037	2035	2031	20	
5	16QAM	12	13	2037	2038	2032		
5	16QAM	24	0	2031	2040	2041		
5	256QAM	1	0	1825	1831	1816	20	
5	256QAM	1	12	1840	1845	1842		
5	256QAM	1	24	1852	1839	1837		
5	256QAM	12	7	1825	1833	1830	20	
5	256QAM	12	13	1836	1837	1837		
5	256QAM	24	0	1820	1830	1831		



Band 25_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Mid	Power High	Time-up			
Channel				Ch. Freq.	Ch. Freq.	Ch. Freq.	Ch. Freq.	Time-up		
Frequency (MHz)				1800	1800	1800	1800	Time-up		
5	QPSK	1	0	2359	2359	2359	23.58			25.5
5	QPSK	1	49	2351	2351	2351	23.58			25.5
5	QPSK	1	99	2344	2344	2344	23.58			25.5
5	QPSK	1	149	2337	2337	2337	23.58			25.5
5	QPSK	1	199	2330	2330	2330	23.58			25.5
5	QPSK	1	249	2323	2323	2323	23.58			25.5
5	QPSK	1	299	2316	2316	2316	23.58			25.5
5	QPSK	1	349	2309	2309	2309	23.58			25.5
5	QPSK	1	399	2302	2302	2302	23.58			25.5
5	QPSK	1	449	2295	2295	2295	23.58			25.5
10	QPSK	2	0	2230	2230	2230	22.72			24.5
10	QPSK	2	49	2223	2223	2223	22.72			24.5
10	QPSK	2	99	2216	2216	2216	22.72			24.5
10	QPSK	2	149	2209	2209	2209	22.72			24.5
10	QPSK	2	199	2202	2202	2202	22.72			24.5
10	QPSK	2	249	2195	2195	2195	22.72			24.5
10	QPSK	2	299	2188	2188	2188	22.72			24.5
10	QPSK	2	349	2181	2181	2181	22.72			24.5
10	QPSK	2	399	2174	2174	2174	22.72			24.5
10	QPSK	2	449	2167	2167	2167	22.72			24.5
15	QPSK	3	0	2101	2101	2101	21.86			24.5
15	QPSK	3	49	2094	2094	2094	21.86			24.5
15	QPSK	3	99	2087	2087	2087	21.86			24.5
15	QPSK	3	149	2080	2080	2080	21.86			24.5
15	QPSK	3	199	2073	2073	2073	21.86			24.5
15	QPSK	3	249	2066	2066	2066	21.86			24.5
15	QPSK	3	299	2059	2059	2059	21.86			24.5
15	QPSK	3	349	2052	2052	2052	21.86			24.5
15	QPSK	3	399	2045	2045	2045	21.86			24.5
15	QPSK	3	449	2038	2038	2038	21.86			24.5
20	QPSK	4	0	2000	2000	2000	20.00			20.5
20	QPSK	4	49	1993	1993	1993	20.00			20.5
20	QPSK	4	99	1986	1986	1986	20.00			20.5
20	QPSK	4	149	1979	1979	1979	20.00			20.5
20	QPSK	4	199	1972	1972	1972	20.00			20.5
20	QPSK	4	249	1965	1965	1965	20.00			20.5
20	QPSK	4	299	1958	1958	1958	20.00			20.5
20	QPSK	4	349	1951	1951	1951	20.00			20.5
20	QPSK	4	399	1944	1944	1944	20.00			20.5
20	QPSK	4	449	1937	1937	1937	20.00			20.5
25	QPSK	5	0	1800	1800	1800	18.00			20.5
25	QPSK	5	49	1793	1793	1793	18.00			20.5
25	QPSK	5	99	1786	1786	1786	18.00			20.5
25	QPSK	5	149	1779	1779	1779	18.00			20.5
25	QPSK	5	199	1772	1772	1772	18.00			20.5
25	QPSK	5	249	1765	1765	1765	18.00			20.5
25	QPSK	5	299	1758	1758	1758	18.00			20.5
25	QPSK	5	349	1751	1751	1751	18.00			20.5
25	QPSK	5	399	1744	1744	1744	18.00			20.5
25	QPSK	5	449	1737	1737	1737	18.00			20.5
30	QPSK	6	0	1600	1600	1600	16.00			20.5
30	QPSK	6	49	1593	1593	1593	16.00			20.5
30	QPSK	6	99	1586	1586	1586	16.00			20.5
30	QPSK	6	149	1579	1579	1579	16.00			20.5
30	QPSK	6	199	1572	1572	1572	16.00			20.5
30	QPSK	6	249	1565	1565	1565	16.00			20.5
30	QPSK	6	299	1558	1558	1558	16.00			20.5
30	QPSK	6	349	1551	1551	1551	16.00			20.5
30	QPSK	6	399	1544	1544	1544	16.00			20.5
30	QPSK	6	449	1537	1537	1537	16.00			20.5



Band 30							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.87			25.7
10	QPSK	1	25	23.88			
10	QPSK	1	49	23.85			
10	QPSK	25	0	22.90			24.7
10	QPSK	25	12	22.94			
10	QPSK	25	25	22.96			
10	16QAM	50	0	22.94			24.7
10	16QAM	1	0	23.21			
10	16QAM	1	25	23.25			
10	16QAM	1	49	23.23			23.7
10	16QAM	25	0	21.88			
10	16QAM	25	12	21.97			
10	16QAM	25	25	21.94			23.7
10	16QAM	50	0	21.93			
10	16QAM	1	0	22.90			
10	16QAM	1	25	22.17			22.7
10	16QAM	1	49	22.02			
10	16QAM	25	0	20.92			
10	16QAM	25	12	21.82			22.7
10	16QAM	25	25	20.95			
10	16QAM	50	0	20.98			
10	256QAM	1	0	19.20			20.7
10	256QAM	1	25	19.23			
10	256QAM	1	49	19.13			
10	256QAM	25	0	18.96			20.7
10	256QAM	25	12	19.06			
10	256QAM	25	25	19.03			
10	256QAM	50	0	19.03			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.75	23.79	23.86	25.7
5	QPSK	1	24	23.82	23.86	23.90	
5	QPSK	1	24	23.85	23.87	23.79	
5	QPSK	12	0	22.87	22.89	22.94	24.7
5	QPSK	12	12	22.98	22.94	22.98	
5	QPSK	12	12	22.89	22.83	22.86	
5	QPSK	25	0	22.97	22.94	22.96	24.7
5	16QAM	1	0	23.07	23.10	23.17	
5	16QAM	1	12	23.18	23.17	23.13	
5	16QAM	1	24	23.24	23.18	23.29	23.7
5	16QAM	12	0	22.01	21.98	22.00	
5	16QAM	12	12	22.01	21.95	21.96	
5	16QAM	25	0	21.98	21.94	21.94	23.7
5	16QAM	1	0	22.03	22.08	21.87	
5	16QAM	1	24	22.16	22.14	21.97	
5	16QAM	1	24	22.16	22.09	21.83	22.7
5	16QAM	12	0	20.94	20.96	20.93	
5	16QAM	12	12	21.05	21.02	20.95	
5	16QAM	12	12	21.05	20.96	20.95	20.7
5	16QAM	25	0	21.01	21.00	20.81	
5	256QAM	1	0	19.11	19.19	19.16	
5	256QAM	1	12	19.21	19.19	19.22	20.7
5	256QAM	1	24	19.06	19.05	19.07	
5	256QAM	12	0	18.93	18.98	19.00	
5	256QAM	12	7	18.99	19.06	18.96	20.7
5	256QAM	12	12	19.03	18.93	18.99	
5	256QAM	25	0	19.03	18.96	19.01	



Band 71									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel									
Frequency (MHz)									
				693	693	698			
20	QPSK	1	0	2348	2348	2337			25
20	QPSK	1	49	2342	2341	2337			
20	QPSK	1	99	2336	2339	2338			
20	QPSK	60	0	2297	2298	2248			
20	QPSK	50	24	2254	2249	2248			24
20	QPSK	50	50	2258	2251	2250			
20	QPSK	100	0	2251	2252	2248			
20	HQAM	1	0	2288	2282	2274			
20	HQAM	1	49	2277	2277	2276			24
20	HQAM	1	99	2271	2272	2271			
20	HQAM	50	0	2159	2153	2148			
20	HQAM	50	24	2161	2161	2149			
20	HQAM	50	50	2158	2153	2150			23
20	HQAM	100	0	2159	2148	2148			
20	HQAM	1	0	2173	2167	2163			
20	HQAM	1	49	2158	2150	2158			23
20	HQAM	1	99	2159	2163	2160			
20	HQAM	50	0	2059	2056	2047			
20	HQAM	50	24	2083	2054	2051			22
20	HQAM	50	50	2080	2056	2053			
20	HQAM	100	0	2081	2052	2049			
20	256QAM	1	0	1858	1844	1837			
20	256QAM	1	49	1857	1832	1846			20
20	256QAM	1	99	1846	1845	1848			
20	256QAM	50	0	1847	1843	1830			
20	256QAM	50	24	1841	1835	1829			
20	256QAM	50	50	1835	1835	1827			20
20	256QAM	100	0	1843	1836	1829			
Channel									
Frequency (MHz)									
				670.5	680.5	690.5			Turn-up (dBm)
15	QPSK	1	0	2341	2346	2329			25
15	QPSK	1	49	2340	2337	2330			
15	QPSK	1	74	2325	2330	2327			
15	QPSK	30	0	2249	2248	2241			24
15	QPSK	30	20	2250	2245	2240			
15	QPSK	30	39	2247	2241	2244			
15	QPSK	75	0	2247	2245	2242			
15	HQAM	1	0	2288	2282	2271			
15	HQAM	1	39	2275	2267	2268			24
15	HQAM	1	74	2268	2270	2270			
15	HQAM	30	0	2153	2153	2144			
15	HQAM	30	20	2158	2142	2144			23
15	HQAM	30	39	2148	2151	2146			
15	HQAM	75	0	2153	2141	2144			
15	HQAM	1	0	2168	2157	2162			
15	HQAM	1	39	2158	2151	2155			23
15	HQAM	1	74	2150	2158	2160			
15	HQAM	30	0	2047	2049	2042			
15	HQAM	30	20	2052	2054	2050			22
15	HQAM	30	39	2052	2054	2050			
15	HQAM	75	0	2058	2048	2049			
15	256QAM	1	0	1853	1840	1835			20
15	256QAM	1	39	1852	1831	1843			
15	256QAM	1	74	1846	1835	1847			
15	256QAM	30	0	1843	1840	1834			
15	256QAM	30	20	1838	1835	1823			20
15	256QAM	30	39	1830	1830	1822			
15	256QAM	75	0	1839	1833	1819			
Channel									
Frequency (MHz)									
				13112	13272	13442			Turn-up (dBm)
10	QPSK	1	0	2340	2348	2335			25
10	QPSK	1	25	2340	2338	2334			
10	QPSK	1	49	2325	2334	2334			
10	QPSK	25	0	2287	2283	2289			
10	QPSK	25	12	2283	2248	2247			24
10	QPSK	25	25	2281	2248	2249			
10	QPSK	50	0	2248	2245	2240			
10	HQAM	1	0	2288	2282	2270			24
10	HQAM	1	25	2287	2269	2276			
10	HQAM	1	49	2284	2282	2285			
10	HQAM	25	0	2153	2152	2139			
10	HQAM	25	12	2159	2151	2146			23
10	HQAM	25	25	2150	2143	2148			
10	HQAM	50	0	2154	2148	2140			
10	HQAM	1	0	2172	2163	2155			
10	HQAM	1	25	2184	2127	2153			23
10	HQAM	1	49	2149	2156	2159			
10	HQAM	25	0	2040	2036	2040			22
10	HQAM	25	12	2052	2045	2049			
10	HQAM	25	25	2058	2053	2051			
10	HQAM	50	0	2058	2050	2042			
10	256QAM	1	0	1848	1836	1832			20
10	256QAM	1	25	1847	1824	1841			
10	256QAM	1	49	1845	1843	1844			
10	256QAM	25	0	1838	1840	1832			
10	256QAM	25	12	1834	1828	1823			20
10	256QAM	25	25	1833	1834	1823			
10	256QAM	50	0	1841	1838	1823			
Channel									
Frequency (MHz)									
				682.5	672.5	682.5			Turn-up (dBm)
5	QPSK	1	0	2341	2345	2331			25
5	QPSK	1	12	2338	2341	2331			
5	QPSK	1	24	2328	2338	2329			
5	QPSK	10	0	2250	2255	2238			
5	QPSK	12	7	2245	2243	2230			24
5	QPSK	12	13	2250	2244	2248			
5	QPSK	24	0	2243	2244	2242			
5	HQAM	1	0	2279	2277	2285			24
5	HQAM	1	12	2270	2274	2287			
5	HQAM	1	24	2262	2269	2262			
5	HQAM	12	0	2149	2152	2148			
5	HQAM	12	13	2154	2146	2140			23
5	HQAM	12	13	2149	2148	2149			
5	HQAM	25	0	2153	2139	2146			
5	HQAM	1	0	2173	2160	2158			23
5	HQAM	1	12	2182	2188	2185			
5	HQAM	1	24	2159	2160	2159			
5	HQAM	12	0	2048	2047	2043			
5	HQAM	12	7	2061	2053	2049			22
5	HQAM	12	13	2059	2054	2048			
5	HQAM	25	0	2059	2052	2047			
5	256QAM	1	0	1855	1838	1849			20
5	256QAM	1	12	1857	1823	1846			
5	256QAM	1	24	1842	1841	1848			
5	256QAM	12	0	1847	1835	1832			20
5	256QAM	12	13	1840	1832	1827			
5	256QAM	12	13	1830	1826	1820			
5	256QAM	25	0	1834	1827	1822			



Band 5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel				2040	2055	2070			
Frequency (MHz)				180	186.5	184			
10	QPSK	1	0	2448	2454	2460			
10	QPSK	1	26	2448	2452	2456			25.7
10	QPSK	1	49	2458	2448	2443			
10	QPSK	26	0	2358	2344	2332			
10	QPSK	26	12	2359	2355	2352			24.7
10	QPSK	26	25	2363	2367	2362			
10	QPSK	26	0	2327	2344	2330			
10	HQAM	1	0	2388	2389	2384			24.7
10	HQAM	1	26	2390	2393	2391			
10	HQAM	1	49	2395	2390	2381			
10	HQAM	26	0	2257	2252	2259			
10	HQAM	26	12	2258	2254	2257			23.7
10	HQAM	26	25	2264	2263	2256			
10	HQAM	26	0	2228	2252	2258			
10	HQAM	26	0	2244	2278	2270			
10	HQAM	1	26	2252	2257	2252			23.7
10	HQAM	1	49	2262	2261	2256			
10	HQAM	26	12	2171	2169	2167			22.7
10	HQAM	26	25	2186	2170	2157			
10	HQAM	26	0	2170	2166	2162			
10	256QAM	1	0	1940	1933	1932			20.7
10	256QAM	1	26	1944	1945	1944			
10	256QAM	1	49	1952	1948	1937			
10	256QAM	26	0	1941	1941	1943			
10	256QAM	26	12	1944	1939	1938			20.7
10	256QAM	26	25	1934	1938	1938			
10	256QAM	26	0	1944	1937	1938			
Channel				2058	2055	2053			
Frequency (MHz)				186.5	186.5	186.5			
5	QPSK	1	0	2454	2452	2448			25.7
5	QPSK	1	26	2455	2453	2448			
5	QPSK	1	24	2446	2448	2448			
5	QPSK	12	0	2359	2370	2381			24.7
5	QPSK	12	6	2368	2367	2355			
5	QPSK	12	13	2380	2385	2384			
5	QPSK	26	0	2363	2369	2355			
5	HQAM	1	0	2399	2395	2389			24.7
5	HQAM	1	12	2389	2395	2383			
5	HQAM	1	24	2389	2391	2378			
5	HQAM	12	0	2284	2272	2261			23.7
5	HQAM	12	7	2288	2289	2258			
5	HQAM	12	13	2285	2287	2282			
5	HQAM	26	0	2269	2271	2258			
5	HQAM	1	0	2261	2266	2262			23.7
5	HQAM	1	0	2263	2268	2267			
5	HQAM	1	24	2282	2286	2282			
5	HQAM	12	0	2189	2175	2167			22.7
5	HQAM	12	7	2173	2175	2141			
5	HQAM	12	13	2188	2170	2122			
5	HQAM	26	0	2189	2174	2145			
5	256QAM	1	0	1933	1948	1944			20.7
5	256QAM	1	12	1940	1941	1941			
5	256QAM	1	24	1945	1945	1934			
5	256QAM	12	0	1935	1932	1943			20.7
5	256QAM	12	7	1937	1928	1930			
5	256QAM	12	13	1933	1938	1938			
5	256QAM	26	0	1934	1937	1931			
Channel				2045	2052	2053			
Frequency (MHz)				186.5	186.5	186.5			
3	QPSK	1	0	2380	2387	2385			25.7
3	QPSK	1	6	2387	2394	2383			
3	QPSK	1	11	2378	2383	2371			
3	QPSK	6	0	2289	2293	2287			24.7
3	QPSK	6	4	2295	2301	2287			
3	QPSK	6	0	2288	2293	2283			
3	QPSK	16	0	2250	2257	2286			24.7
3	HQAM	1	0	2311	2317	2311			
3	HQAM	1	6	2315	2320	2313			
3	HQAM	1	14	2311	2318	2303			23.7
3	HQAM	6	0	2156	2200	2184			
3	HQAM	6	4	2198	2206	2196			
3	HQAM	6	7	2156	2198	2187			
3	HQAM	16	0	2106	2201	2180			23.7
3	HQAM	1	0	2103	2215	2190			
3	HQAM	1	6	2313	2221	2171			
3	HQAM	1	14	2302	2209	2170			22.7
3	HQAM	6	0	2190	2180	2078			
3	HQAM	6	4	2194	2103	2178			
3	HQAM	6	7	2189	2098	2171			
3	HQAM	16	0	2102	2098	2172			
3	256QAM	1	0	1945	1945	1946			20.7
3	256QAM	1	6	1938	1947	1929			
3	256QAM	1	14	1948	1947	1929			
3	256QAM	6	0	1938	1941	1930			20.7
3	256QAM	6	4	1935	1939	1927			
3	256QAM	6	7	1933	1933	1920			
3	256QAM	16	0	1938	1938	1931			
Channel				2047	2052	2063			
Frequency (MHz)				184.7	184.5	184.5			
1.4	QPSK	1	0	2311	2319	2320			25.7
1.4	QPSK	1	3	2380	2386	2376			
1.4	QPSK	1	5	2370	2380	2371			
1.4	QPSK	1	6	2389	2380	2375			
1.4	QPSK	3	1	2383	2380	2380			24.7
1.4	QPSK	3	3	2378	2381	2372			
1.4	QPSK	6	0	2283	2291	2277			
1.4	HQAM	1	0	2305	2311	2307			24.7
1.4	HQAM	1	5	2314	2321	2312			
1.4	HQAM	1	5	2307	2312	2300			
1.4	HQAM	3	0	2289	2289	2282			23.7
1.4	HQAM	3	1	2293	2300	2286			
1.4	HQAM	3	1	2283	2291	2278			
1.4	HQAM	6	0	2191	2199	2186			23.7
1.4	HQAM	1	0	2108	2204	2172			
1.4	HQAM	1	3	2210	2215	2178			
1.4	HQAM	1	6	2200	2204	2172			23.7
1.4	HQAM	3	0	2199	2197	2173			
1.4	HQAM	3	1	2194	2200	2173			
1.4	HQAM	3	1	2189	2183	2173			22.7
1.4	HQAM	6	0	2078	2084	2071			
1.4	256QAM	1	0	1940	1948	1947			20.7
1.4	256QAM	1	3	1937	1941	1941			
1.4	256QAM	1	5	1947	1947	1927			
1.4	256QAM	3	0	1931	1939	1938			
1.4	256QAM	3	0	1944	1938	1938			
1.4	256QAM	3	1	1927	1938	1923			20.7
1.4	256QAM	6	0	1938	1938	1930			



Band 7_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (min)	
Channel								
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	2275	2296	2314	24.1	
20	QPSK	1	49	2255	2281	2298		
20	QPSK	1	99	2277	2297	2291		
20	QPSK	60	0	2244	2287	2294	24.1	
20	QPSK	50	24	2258	2283	2285		
20	QPSK	50	50	2259	2287	2286		
20	QPSK	100	0	2258	2272	2288	24.1	
20	HQAM	1	0	2287	2272	2310		
20	HQAM	1	49	2254	2270	2291		
20	HQAM	50	0	2289	2291	2293	23.7	
20	HQAM	50	0	2245	2259	2285		
20	HQAM	50	24	2257	2286	2284		
20	HQAM	50	50	2258	2284	2289	23.7	
20	HQAM	100	0	2258	2270	2283		
20	HQAM	1	49	2254	2276	2283		
20	HQAM	1	49	2253	2278	2282	23.7	
20	HQAM	1	99	2282	2282	2211		
20	HQAM	60	0	2203	2215	2236		
20	HQAM	50	24	2283	2215	2288	22.7	
20	HQAM	50	50	2208	2223	2220		
20	HQAM	100	0	2202	2213	2219		
20	SSBQAM	1	0	1978	1977	1989	20.7	
20	SSBQAM	1	49	1983	1971	1988		
20	SSBQAM	1	99	1989	1975	1972		
20	SSBQAM	50	0	1982	1980	1984	20.7	
20	SSBQAM	50	24	1986	1985	1984		
20	SSBQAM	50	50	1971	1987	1986		
20	SSBQAM	100	0	1979	1982	1980	20.7	
Channel								
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	2268	2296	2280	24.1	
15	QPSK	1	49	2266	2281	2290		
15	QPSK	1	74	2271	2292	2274		
15	QPSK	30	0	2234	2283	2283	24.1	
15	QPSK	30	20	2253	2282	2284		
15	QPSK	30	39	2280	2278	2282		
15	QPSK	75	0	2252	2272	2284	24.1	
15	HQAM	1	0	2253	2289	2308		
15	HQAM	1	39	2249	2279	2288		
15	HQAM	1	74	2284	2284	2277	23.7	
15	HQAM	30	0	2238	2282	2283		
15	HQAM	30	20	2254	2287	2274		
15	HQAM	30	39	2285	2271	2286	23.7	
15	HQAM	75	0	2252	2261	2275		
15	HQAM	1	0	2249	2280	2289		
15	HQAM	1	74	2282	2272	2277	22.7	
15	HQAM	1	74	2282	2281	2282		
15	HQAM	30	0	2185	2214	2226		
15	HQAM	30	20	2194	2211	2225	20.7	
15	HQAM	30	39	2281	2219	2214		
15	HQAM	75	0	2184	2202	2213		
15	SSBQAM	1	0	1987	1974	1988	20.7	
15	SSBQAM	1	39	1972	1983	1985		
15	SSBQAM	1	74	1986	1980	1972		
15	SSBQAM	30	0	1959	1955	1959	20.7	
15	SSBQAM	30	20	1987	1951	1987		
15	SSBQAM	30	39	1987	1958	1984		
15	SSBQAM	75	0	1974	1955	1957	20.7	
Channel								
Frequency (MHz)				2100	2100	2100		
10	QPSK	1	0	2272	2296	2278	24.1	
10	QPSK	1	25	2280	2278	2294		
10	QPSK	1	49	2271	2287	2281		
10	QPSK	25	0	2241	2283	2281	24.1	
10	QPSK	25	12	2252	2280	2277		
10	QPSK	25	25	2251	2278	2280		
10	QPSK	50	0	2249	2284	2279	24.1	
10	HQAM	1	0	2248	2286	2306		
10	HQAM	1	25	2249	2279	2291		
10	HQAM	1	49	2284	2287	2280	23.7	
10	HQAM	25	0	2240	2282	2281		
10	HQAM	25	12	2259	2288	2276		
10	HQAM	25	25	2252	2277	2288	23.7	
10	HQAM	50	0	2256	2285	2282		
10	HQAM	1	0	2258	2280	2282		
10	HQAM	1	25	2246	2280	2278	22.7	
10	HQAM	1	49	2280	2278	2286		
10	HQAM	25	0	2185	2287	2288		
10	HQAM	25	12	2280	2211	2199	22.7	
10	HQAM	25	25	2198	2216	2211		
10	HQAM	50	0	2187	2213	2212		
10	SSBQAM	1	0	1972	1982	1982	20.7	
10	SSBQAM	1	25	1971	1985	1981		
10	SSBQAM	1	49	1988	1988	1970		
10	SSBQAM	25	0	1988	1987	1987	20.7	
10	SSBQAM	25	12	1984	1950	1958		
10	SSBQAM	25	25	1984	1960	1986		
10	SSBQAM	50	0	1971	1981	1986	20.7	
Channel								
Frequency (MHz)				2177.5	2190	2182.5		
5	QPSK	1	0	2284	2284	2290	24.1	
5	QPSK	1	12	2284	2277	2301		
5	QPSK	1	24	2289	2291	2273		
5	QPSK	15	0	2242	2280	2274	24.1	
5	QPSK	12	7	2251	2284	2284		
5	QPSK	12	15	2254	2273	2277		
5	QPSK	24	0	2255	2286	2282	24.1	
5	HQAM	1	0	2247	2284	2309		
5	HQAM	1	12	2248	2279	2286		
5	HQAM	1	24	2268	2288	2281	23.7	
5	HQAM	12	0	2245	2284	2279		
5	HQAM	12	12	2251	2284	2283		
5	HQAM	12	12	2252	2283	2282	23.7	
5	HQAM	25	0	2251	2284	2283		
5	HQAM	1	0	2247	2286	2282		
5	HQAM	1	12	2282	2273	2281	22.7	
5	HQAM	11	24	2282	2273	2282		
5	HQAM	12	0	2189	2205	2206		
5	HQAM	12	7	2195	2208	2198	22.7	
5	HQAM	12	12	2186	2219	2210		
5	HQAM	25	0	2198	2207	2210		
5	SSBQAM	1	0	1988	1988	1986	20.7	
5	SSBQAM	1	12	1970	1988	1988		
5	SSBQAM	1	24	1982	1971	1986		
5	SSBQAM	12	0	1958	1951	1958	20.7	
5	SSBQAM	12	12	1983	1957	1950		
5	SSBQAM	12	12	1986	1980	1980		
5	SSBQAM	25	0	1971	1957	1954	20.7	



Band 12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (min)
Channel							
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	2464	2463	2469	25.7
10	QPSK	1	26	2459	2460	2462	
10	QPSK	1	49	2467	2463	2460	24.7
10	QPSK	25	0	2372	2374	2371	
10	QPSK	25	12	2378	2373	2372	24.7
10	QPSK	25	25	2377	2379	2380	
10	QPSK	50	0	2378	2371	2373	24.7
10	16QAM	1	0	2386	2385	2387	
10	16QAM	1	25	2387	2389	2401	24.7
10	16QAM	49	0	2408	2401	2404	
10	16QAM	25	0	2271	2273	2274	23.7
10	16QAM	25	12	2276	2273	2275	
10	16QAM	25	25	2272	2280	2277	23.7
10	16QAM	50	0	2275	2272	2274	
10	16QAM	1	0	2281	2280	2283	23.7
10	16QAM	1	25	2288	2282	2286	
10	16QAM	1	49	2286	2291	2294	22.7
10	16QAM	25	0	2178	2174	2176	
10	16QAM	25	12	2184	2177	2178	22.7
10	16QAM	25	25	2179	2181	2180	
10	16QAM	50	0	2182	2177	2177	20.7
10	256QAM	1	0	1942	1954	1950	
10	256QAM	1	25	1958	1957	1958	20.7
10	256QAM	49	0	1952	1958	1954	
10	256QAM	25	0	1952	1954	1955	20.7
10	256QAM	25	12	1956	1948	1945	
10	256QAM	25	25	1942	1947	1955	20.7
10	256QAM	50	0	1953	1951	1951	
Channel							
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	2465	2466	2480	25.7
5	QPSK	1	24	2465	2460	2460	
5	QPSK	1	24	2484	2465	2464	24.7
5	QPSK	12	0	2375	2373	2373	
5	QPSK	12	12	2378	2380	2370	24.7
5	QPSK	12	12	2370	2374	2372	
5	QPSK	25	0	2373	2371	2371	24.7
5	16QAM	1	0	2388	2389	2387	
5	16QAM	1	12	2401	2401	2389	23.7
5	16QAM	1	24	2402	2401	2387	
5	16QAM	12	0	2283	2278	2278	23.7
5	16QAM	12	7	2278	2280	2274	
5	16QAM	12	12	2275	2275	2275	23.7
5	16QAM	25	0	2278	2271	2270	
5	16QAM	1	0	2288	2285	2288	23.7
5	16QAM	1	24	2282	2283	2284	
5	16QAM	1	24	2286	2288	2282	22.7
5	16QAM	12	0	2188	2182	2182	
5	16QAM	12	7	2183	2183	2178	20.7
5	16QAM	12	12	2178	2180	2177	
5	16QAM	25	0	2178	2174	2174	20.7
5	256QAM	1	0	1958	1948	1948	
5	256QAM	1	12	1950	1949	1952	20.7
5	256QAM	1	24	1952	1952	1952	
5	256QAM	12	7	1951	1948	1942	20.7
5	256QAM	12	12	1958	1937	1954	
5	256QAM	25	0	1953	1949	1948	
Channel							
Frequency (MHz)				706.5	707.5	710.5	
3	QPSK	1	0	2392	2388	2386	25.7
3	QPSK	1	8	2392	2395	2393	
3	QPSK	8	0	2385	2390	2384	24.7
3	QPSK	8	4	2288	2297	2284	
3	QPSK	8	4	2288	2300	2297	24.7
3	QPSK	16	0	2288	2282	2282	
3	16QAM	1	0	2398	2399	2392	24.7
3	16QAM	8	0	2331	2331	2329	
3	16QAM	1	14	2318	2322	2319	23.7
3	16QAM	8	4	2288	2281	2280	
3	16QAM	8	4	2289	2288	2284	23.7
3	16QAM	8	7	2280	2286	2188	
3	16QAM	16	0	2281	2282	2284	23.7
3	16QAM	1	0	2221	2214	2214	
3	16QAM	1	8	2224	2223	2220	22.7
3	16QAM	8	0	2183	2183	2086	
3	16QAM	8	4	2188	2187	2184	22.7
3	16QAM	8	7	2099	2102	2099	
3	16QAM	16	0	2100	2095	2093	20.7
3	256QAM	1	0	1952	1952	1943	
3	256QAM	1	14	1958	1947	1948	20.7
3	256QAM	8	0	1948	1944	1945	
3	256QAM	8	4	1953	1948	1939	20.7
3	256QAM	8	7	1945	1937	1953	
3	256QAM	16	0	1951	1944	1945	
Channel							
Frequency (MHz)				692.7	707.5	715.3	
1.4	QPSK	1	0	2378	2374	2373	25.7
1.4	QPSK	1	3	2378	2380	2380	
1.4	QPSK	1	5	2372	2373	2371	24.7
1.4	QPSK	3	1	2384	2378	2379	
1.4	QPSK	3	3	2374	2378	2374	24.7
1.4	QPSK	6	0	2283	2284	2281	
1.4	16QAM	1	0	2388	2387	2388	23.7
1.4	16QAM	1	5	2388	2385	2383	
1.4	16QAM	3	0	2289	2284	2288	23.7
1.4	16QAM	3	1	2284	2283	2282	
1.4	16QAM	6	0	2188	2180	2186	23.7
1.4	16QAM	1	0	2201	2188	2189	
1.4	16QAM	1	3	2286	2289	2283	23.7
1.4	16QAM	1	6	2283	2282	2187	
1.4	16QAM	3	0	2188	2184	2186	22.7
1.4	16QAM	6	0	2089	2088	2083	
1.4	256QAM	1	0	1938	1948	1942	20.7
1.4	256QAM	1	3	1957	1954	1956	
1.4	256QAM	1	5	1958	1957	1958	20.7
1.4	256QAM	3	0	1942	1945	1951	
1.4	256QAM	3	1	1958	1941	1938	20.7
1.4	256QAM	3	1	1939	1944	1952	
1.4	256QAM	6	0	1947	1948	1950	



Band 13_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up limit (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.98	782		
10	QPSK	1	25	24.02			25.2
10	QPSK	1	49	24.10			
10	QPSK	25	0	23.16			
10	QPSK	25	12	23.17			24.2
10	QPSK	25	25	23.19			
10	QPSK	50	0	23.18			
10	HQAM	1	0	23.38			
10	HQAM	1	25	23.37			24.2
10	HQAM	1	49	23.40			
10	HQAM	25	0	22.17			
10	HQAM	25	12	22.20			23.2
10	HQAM	25	25	22.22			
10	HQAM	50	0	22.19			
10	HQAM	1	0	22.21			
10	HQAM	1	25	22.32			23.2
10	HQAM	1	49	22.34			
10	HQAM	25	0	21.17			
10	HQAM	25	12	21.24			22.2
10	HQAM	25	25	21.23			
10	HQAM	50	0	21.23			
10	256QAM	1	0	18.81			
10	256QAM	1	25	18.97			20.2
10	256QAM	1	49	18.91			
10	256QAM	25	0	18.78			
10	256QAM	25	12	18.86			20.2
10	256QAM	25	25	18.89			
10	256QAM	50	0	18.84			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.93	782	784.5	
5	QPSK	1	24	24.04	24.07	23.77	25.2
5	QPSK	1	24	24.07	24.08	23.83	
5	QPSK	12	0	23.10	23.13	22.85	
5	QPSK	12	0	23.18	23.15	22.93	24.2
5	QPSK	12	13	23.19	23.21	22.89	
5	QPSK	25	0	23.18	23.14	22.90	
5	HQAM	1	0	23.31	23.29	23.01	
5	HQAM	1	12	23.29	23.33	23.04	24.2
5	HQAM	1	24	23.37	23.38	23.04	
5	HQAM	12	0	22.20	22.17	21.92	
5	HQAM	12	7	22.20	22.17	21.92	23.2
5	HQAM	12	13	22.21	22.22	21.94	
5	HQAM	25	0	22.23	22.16	21.92	
5	HQAM	1	0	22.19	22.28	21.94	
5	HQAM	1	24	22.25	22.20	22.01	23.2
5	HQAM	1	24	22.29	22.32	22.02	
5	HQAM	12	0	21.22	21.23	20.96	
5	HQAM	12	7	21.28	21.21	20.98	22.2
5	HQAM	12	13	21.25	21.26	20.95	
5	HQAM	25	0	21.36	21.17	20.96	
5	256QAM	1	0	18.55	18.57	18.59	
5	256QAM	1	12	18.93	18.96	18.94	20.2
5	256QAM	1	24	18.86	18.99	18.96	
5	256QAM	12	7	18.77	18.69	18.74	
5	256QAM	12	7	18.83	18.78	18.79	20.2
5	256QAM	12	13	18.82	18.84	18.79	
5	256QAM	25	0	18.77	18.77	18.74	



Band 14_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq
Channel				790.5	790.5	790.5
Frequency (MHz)				790.5	790.5	790.5
10	QPSK	1	0	24.56	24.56	
10	QPSK	1	25	24.53	24.53	
10	QPSK	1	49	24.48	24.48	25.7
10	QPSK	25	0	23.55	23.55	
10	QPSK	25	12	23.57	23.57	
10	QPSK	25	25	23.63	23.63	24.7
10	QPSK	50	0	22.55	22.55	
10	HQAM	1	0	23.95	23.95	
10	HQAM	1	25	23.91	23.91	24.7
10	HQAM	1	49	23.86	23.86	
10	HQAM	25	0	22.54	22.54	
10	HQAM	25	12	22.57	22.57	
10	HQAM	25	25	22.64	22.64	23.7
10	HQAM	50	0	22.55	22.55	
10	HQAM	1	0	22.79	22.79	
10	HQAM	1	25	22.84	22.84	23.7
10	HQAM	1	49	22.79	22.79	
10	HQAM	25	0	21.58	21.58	
10	HQAM	25	12	21.61	21.61	
10	HQAM	25	25	21.63	21.63	22.7
10	HQAM	50	0	21.59	21.59	
10	256QAM	1	0	19.53	19.53	
10	256QAM	1	25	19.57	19.57	20.7
10	256QAM	1	49	19.55	19.55	
10	256QAM	25	0	19.29	19.29	
10	256QAM	25	12	19.34	19.34	
10	256QAM	25	25	19.33	19.33	20.7
10	256QAM	50	0	19.25	19.25	
Channel				23.95	23.95	23.95
Frequency (MHz)				790.5	790.5	790.5
5	QPSK	1	0	24.48	24.48	24.45
5	QPSK	1	25	24.56	24.53	24.55
5	QPSK	1	24	24.55	24.55	24.48
5	QPSK	12	0	23.62	23.54	23.51
5	QPSK	12	12	23.68	23.68	23.60
5	QPSK	12	13	23.61	23.60	23.56
5	QPSK	25	0	23.59	23.54	23.52
5	HQAM	1	0	23.92	23.92	23.79
5	HQAM	1	12	23.90	23.92	23.86
5	HQAM	1	24	23.88	23.88	23.79
5	HQAM	12	0	22.84	22.81	22.83
5	HQAM	12	7	22.88	22.89	22.88
5	HQAM	12	13	22.85	22.83	22.84
5	HQAM	25	0	22.62	22.56	22.58
5	HQAM	1	0	22.61	22.77	22.77
5	HQAM	1	24	22.82	22.82	22.84
5	HQAM	1	24	22.82	22.82	22.80
5	HQAM	12	0	21.71	21.60	21.58
5	HQAM	12	7	21.69	21.70	21.68
5	HQAM	12	13	21.63	21.66	21.61
5	HQAM	25	0	21.65	21.61	21.54
5	256QAM	1	0	19.47	19.49	19.53
5	256QAM	1	12	19.31	19.33	19.28
5	256QAM	1	24	19.46	19.46	19.42
5	256QAM	12	0	19.19	19.27	19.27
5	256QAM	12	7	19.28	19.28	19.34
5	256QAM	12	13	19.33	19.35	19.32
5	256QAM	25	0	19.21	19.19	19.15



Band 17_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)
Channel				700	710	711	
Frequency (MHz)				700	710	711	
10	QPSK	1	0	2458	2458	2458	25.7
10	QPSK	1	25	2458	2464	2460	
10	QPSK	1	49	2462	2466	2462	
10	QPSK	25	0	2384	2384	2384	24.7
10	QPSK	25	12	2378	2373	2371	
10	QPSK	25	25	2380	2379	2380	
10	HQAM	1	0	2390	2390	2390	24.7
10	HQAM	1	25	2401	2401	2400	
10	HQAM	25	0	2401	2402	2402	
10	HQAM	25	0	2265	2264	2264	23.7
10	HQAM	25	12	2278	2271	2271	
10	HQAM	25	25	2277	2281	2276	
10	HQAM	50	0	2269	2270	2267	23.7
10	HQAM	50	0	2286	2276	2274	
10	HQAM	1	25	2252	2257	2250	
10	HQAM	1	49	2252	2258	2263	22.7
10	HQAM	25	0	2167	2167	2167	
10	HQAM	25	12	2184	2178	2178	
10	HQAM	25	25	2180	2182	2182	20.7
10	HQAM	50	0	2170	2171	2171	
10	256QAM	1	0	1944	1937	1933	
10	256QAM	1	25	1950	1948	1951	20.7
10	256QAM	1	49	1958	1950	1958	
10	256QAM	25	0	1946	1944	1946	
10	256QAM	25	12	1956	1952	1943	20.7
10	256QAM	25	25	1958	1954	1952	
10	256QAM	50	0	1948	1948	1948	
Channel				706.5	710	713.5	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	2457	2456	2455	25.7
5	QPSK	1	25	2460	2461	2463	
5	QPSK	1	24	2484	2461	2464	
5	QPSK	12	0	2387	2389	2386	24.7
5	QPSK	12	12	2378	2374	2369	
5	QPSK	12	13	2377	2376	2373	
5	QPSK	25	0	2376	2376	2366	24.7
5	HQAM	1	0	2391	2393	2391	
5	HQAM	1	12	2397	2403	2398	
5	HQAM	1	24	2408	2404	2401	23.7
5	HQAM	12	7	2278	2274	2273	
5	HQAM	12	13	2278	2277	2274	
5	HQAM	25	0	2274	2275	2269	23.7
5	HQAM	1	0	2289	2287	2288	
5	HQAM	1	24	2290	2296	2290	
5	HQAM	1	24	2294	2300	2293	22.7
5	HQAM	12	0	2173	2177	2178	
5	HQAM	12	7	2181	2179	2173	
5	HQAM	12	13	2179	2185	2175	20.7
5	HQAM	25	0	2179	2174	2170	
5	256QAM	1	0	1941	1929	1924	
5	256QAM	1	12	1949	1946	1944	20.7
5	256QAM	1	24	1946	1950	1950	
5	256QAM	12	7	1958	1947	1940	
5	256QAM	12	13	1953	1954	1952	20.7
5	256QAM	25	0	1937	1941	1942	



Band 30_Ant 2						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	2315		
10	QPSK	1	25	2309		
10	QPSK	1	49	2302		
10	QPSK	25	0	2208		
10	QPSK	25	12	2216		
10	QPSK	25	25	2218		
10	QPSK	50	0	2214		
10	HQAM	1	0	2244		
10	HQAM	1	25	2248		
10	HQAM	1	49	2241		
10	HQAM	25	0	2108		
10	HQAM	25	12	2114		
10	HQAM	25	25	2117		
10	HQAM	50	0	2114		
10	HQAM	1	0	2109		
10	HQAM	1	25	2109		
10	HQAM	1	49	2127		
10	HQAM	25	0	2012		
10	HQAM	25	12	2020		
10	HQAM	25	25	2020		
10	HQAM	50	0	2018		
10	256QAM	1	0	1880		
10	256QAM	1	25	1894		
10	256QAM	1	49	1891		
10	256QAM	25	0	1878		
10	256QAM	25	12	1873		
10	256QAM	25	25	1875		
10	256QAM	50	0	1877		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2307.5	2310	2312.5
5	QPSK	1	0	2297	2301	2305
5	QPSK	1	12	2314	2314	2312
5	QPSK	1	24	2313	2313	2308
5	QPSK	12	0	2210	2212	2216
5	QPSK	12	12	2223	2217	2221
5	QPSK	12	12	2222	2217	2219
5	QPSK	25	0	2218	2214	2219
5	HQAM	1	0	2232	2234	2239
5	HQAM	1	12	2242	2240	2238
5	HQAM	1	24	2244	2240	2238
5	HQAM	12	0	2115	2114	2119
5	HQAM	12	7	2124	2120	2122
5	HQAM	12	13	2125	2116	2122
5	HQAM	25	0	2121	2116	2120
5	HQAM	1	0	2128	2132	2134
5	HQAM	1	12	2132	2136	2133
5	HQAM	1	24	2138	2138	2131
5	HQAM	12	0	2017	2021	2020
5	HQAM	12	7	2020	2023	2028
5	HQAM	12	13	2030	2025	2024
5	HQAM	25	0	2025	2017	2020
5	256QAM	1	0	1875	1876	1877
5	256QAM	1	12	1887	1890	1885
5	256QAM	1	24	1896	1890	1887
5	256QAM	12	7	1883	1872	1884
5	256QAM	12	13	1885	1875	1871
5	256QAM	25	0	1875	1872	1870



Band 71_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dB)			
Channel				693	693	693				
Frequency (MHz)				19329	19329	19329				
20	QPSK	1	0	2466	2467	2462	25.7			
20	QPSK	1	49	2458	2453	2451				
20	QPSK	1	99	2451	2453	2450				
20	QPSK	61	0	2366	2366	2358	24.7			
20	QPSK	50	24	2371	2361	2361				
20	QPSK	50	50	2370	2364	2363				
20	HQAM	1	0	2392	2392	2382	24.7			
20	HQAM	1	49	2392	2389	2385				
20	HQAM	1	99	2389	2386	2385				
20	HQAM	50	0	2270	2268	2257	23.7			
20	HQAM	50	24	2273	2265	2261				
20	HQAM	50	50	2270	2268	2264				
20	HQAM	100	0	2270	2262	2259	23.7			
20	HQAM	1	49	2261	2259	2271				
20	HQAM	1	99	2278	2277	2276				
20	HQAM	50	0	2124	2121	2161	22.7			
20	HQAM	50	24	2123	2165	2165				
20	HQAM	50	50	2171	2166	2165				
20	HQAM	100	0	2124	2162	2162	20.7			
20	SSBQAM	1	0	1958	1950	1937				
20	SSBQAM	1	49	1941	1936	1939				
20	SSBQAM	1	99	1945	1935	1935	20.7			
20	SSBQAM	50	0	1941	1947	1944				
20	SSBQAM	50	24	1945	1944	1938				
20	SSBQAM	50	50	1940	1938	1939	20.7			
20	SSBQAM	100	0	1943	1943	1932				
15	QPSK	1	0	2464	2457	2453		25.7		
15	QPSK	1	49	2456	2453	2452				
15	QPSK	1	74	2453	2458	2453				
15	QPSK	39	0	2388	2364	2360	24.7			
15	QPSK	39	20	2371	2368	2369				
15	QPSK	39	39	2384	2383	2381				
15	HQAM	1	0	2372	2369	2366	24.7			
15	HQAM	1	74	2362	2362	2364				
15	HQAM	1	39	2384	2390	2388				
15	HQAM	1	74	2362	2362	2364	23.7			
15	HQAM	39	0	2288	2284	2282				
15	HQAM	39	20	2271	2269	2288				
15	HQAM	39	39	2284	2282	2281	23.7			
15	HQAM	75	0	2273	2269	2267				
15	HQAM	1	0	2247	2279	2275				
15	HQAM	1	74	2263	2278	2278	22.7			
15	HQAM	1	74	2275	2283	2277				
15	HQAM	39	0	2148	2169	2163				
15	HQAM	39	20	2152	2171	2171	22.7			
15	HQAM	39	39	2168	2185	2185				
15	HQAM	75	0	2170	2170	2188				
15	SSBQAM	1	0	1949	1952	1937	20.7			
15	SSBQAM	1	39	1933	1928	1932				
15	SSBQAM	1	74	1946	1946	1936				
15	SSBQAM	39	0	1935	1941	1937	20.7			
15	SSBQAM	39	20	1938	1943	1939				
15	SSBQAM	39	39	1938	1938	1935				
15	SSBQAM	75	0	1938	1938	1931	18.7			
10	QPSK	1	0	2462	2457	2449		25.7		
10	QPSK	1	25	2455	2445	2450				
10	QPSK	1	49	2452	2451	2445				
10	QPSK	25	0	2372	2358	2353	24.7			
10	QPSK	25	12	2371	2358	2359				
10	QPSK	25	25	2366	2352	2361				
10	HQAM	1	0	2371	2365	2356	24.7			
10	HQAM	1	0	2456	2361	2364				
10	HQAM	1	25	2362	2366	2369				
10	HQAM	1	49	2368	2350	2363	23.7			
10	HQAM	25	0	2272	2266	2264				
10	HQAM	25	12	2271	2257	2254				
10	HQAM	25	25	2264	2260	2281	23.7			
10	HQAM	50	0	2271	2263	2254				
10	HQAM	1	0	2254	2278	2273				
10	HQAM	1	25	2258	2270	2280	22.7			
10	HQAM	1	49	2266	2281	2271				
10	HQAM	25	0	2132	2159	2165				
10	HQAM	25	12	2133	2160	2162	22.7			
10	HQAM	25	25	2128	2165	2164				
10	HQAM	50	0	2141	2168	2157				
10	SSBQAM	1	0	1955	1957	1936	20.7			
10	SSBQAM	1	25	1938	1928	1934				
10	SSBQAM	1	49	1937	1945	1955				
10	SSBQAM	25	0	1934	1942	1937	20.7			
10	SSBQAM	25	12	1932	1935	1932				
10	SSBQAM	25	25	1940	1928	1928				
10	SSBQAM	50	0	1938	1933	1922	20.7			
5	QPSK	1	0	2463	2457	2453		25.7		
5	QPSK	1	12	2461	2454	2456				
5	QPSK	1	24	2456	2454	2447				
5	QPSK	19	0	2379	2353	2364	24.7			
5	QPSK	12	7	2373	2364	2370				
5	QPSK	12	19	2366	2360	2361				
5	HQAM	1	0	2379	2364	2359	24.7			
5	HQAM	1	0	2402	2392	2389				
5	HQAM	1	12	2355	2356	2368				
5	HQAM	1	24	2389	2368	2383	23.7			
5	HQAM	12	0	2282	2266	2288				
5	HQAM	12	12	2276	2266	2270				
5	HQAM	12	12	2289	2261	2261	23.7			
5	HQAM	25	0	2273	2265	2262				
5	HQAM	1	0	2223	2260	2279				
5	HQAM	1	12	2248	2285	2281	22.7			
5	HQAM	1	24	2247	2283	2278				
5	HQAM	12	0	2164	2164	2165				
5	HQAM	12	12	2158	2164	2165	22.7			
5	HQAM	25	0	2131	2167	2162				
5	SSBQAM	1	0	1955	1952	1931		20.7		
5	SSBQAM	1	12	1937	1928	1936				
5	SSBQAM	1	24	1938	1947	1955				
5	SSBQAM	12	0	1935	1945	1934	20.7			
5	SSBQAM	12	12	1937	1938	1932				
5	SSBQAM	12	12	1936	1936	1920				
5	SSBQAM	25	0	1937	1935	1931	20.7			



Band 5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)		
Channel									
Frequency (MHz)									
ISD									
10	QPSK	1	0	2347	2347	2348	25		
10	QPSK	1	25	2351	2356	2353			
10	QPSK	1	49	2358	2353	2345			
10	QPSK	25	0	2263	2266	2263	24		
10	QPSK	25	12	2272	2267	2262			
10	QPSK	25	25	2268	2270	2264			
10	QPSK	50	0	2272	2268	2259	24		
10	HQAM	1	0	2291	2292	2297			
10	HQAM	1	25	2292	2298	2292			
10	HQAM	1	49	2298	2293	2293	23		
10	HQAM	25	0	2159	2165	2158			
10	HQAM	25	12	2171	2167	2163			
10	HQAM	25	25	2168	2171	2162	23		
10	HQAM	50	0	2170	2184	2182			
10	HQAM	1	25	2158	2150	2175			
10	HQAM	1	49	2167	2163	2177	22		
10	HQAM	25	0	2068	2065	2065			
10	HQAM	25	12	2077	2072	2067			
10	HQAM	25	25	2071	2074	2065	20		
10	HQAM	50	0	2073	2069	2069			
10	SSBQAM	1	0	1848	1853	1858			
10	SSBQAM	1	25	1853	1850	1851	20		
10	SSBQAM	1	49	1850	1853	1854			
10	SSBQAM	25	0	1847	1848	1845			
10	SSBQAM	25	12	1848	1842	1839	20		
10	SSBQAM	25	25	1838	1848	1848			
10	SSBQAM	50	0	1851	1849	1844			
Channel									
Frequency (MHz)									
ISD									
5	QPSK	1	0	2361	2362	2360	25		
5	QPSK	1	24	2366	2363	2362			
5	QPSK	1	24	2357	2359	2353			
5	QPSK	12	0	2263	2273	2265	24		
5	QPSK	12	12	2270	2274	2268			
5	QPSK	12	12	2265	2267	2267			
5	QPSK	25	0	2268	2272	2258	24		
5	HQAM	1	0	2294	2291	2293			
5	HQAM	1	12	2292	2299	2284			
5	HQAM	1	24	2294	2298	2290	23		
5	HQAM	12	0	2187	2175	2187			
5	HQAM	12	7	2171	2177	2181			
5	HQAM	12	13	2166	2169	2156	23		
5	HQAM	25	0	2172	2174	2160			
5	HQAM	1	0	2188	2195	2186			
5	HQAM	1	24	2183	2190	2178	22		
5	HQAM	1	24	2188	2191	2199			
5	HQAM	12	0	2074	2080	2055			
5	HQAM	12	7	2078	2081	2059	20		
5	HQAM	12	13	2071	2075	2028			
5	HQAM	25	0	2073	2076	2033			
5	SSBQAM	1	0	1838	1838	1838	20		
5	SSBQAM	1	12	1859	1840	1853			
5	SSBQAM	1	24	1848	1848	1848			
5	SSBQAM	12	0	1840	1844	1840	20		
5	SSBQAM	12	7	1844	1837	1836			
5	SSBQAM	12	13	1835	1836	1846			
5	SSBQAM	25	0	1843	1845	1838			
Channel									
Frequency (MHz)									
ISD									
3	QPSK	1	0	2339	2347	2351	25		
3	QPSK	1	6	2349	2353	2348			
3	QPSK	8	0	2351	2351	2345			
3	QPSK	8	0	2285	2288	2288	24		
3	QPSK	8	4	2288	2288	2254			
3	QPSK	8	6	2283	2285	2288			
3	QPSK	16	0	2262	2260	2250	24		
3	HQAM	1	0	2291	2292	2290			
3	HQAM	1	6	2287	2297	2286			
3	HQAM	1	14	2294	2290	2273	23		
3	HQAM	8	4	2166	2169	2167			
3	HQAM	8	4	2184	2162	2163			
3	HQAM	8	7	2161	2166	2157	23		
3	HQAM	16	0	2166	2164	2152			
3	HQAM	1	0	2185	2187	2174			
3	HQAM	1	6	2178	2183	2169	22		
3	HQAM	8	4	2076	2072	2089			
3	HQAM	8	7	2083	2072	2041			
3	HQAM	16	0	2065	2059	2059	20		
3	SSBQAM	1	0	1846	1847	1849			
3	SSBQAM	1	6	1843	1847	1851			
3	SSBQAM	1	14	1845	1863	1845	20		
3	SSBQAM	8	0	1836	1844	1836			
3	SSBQAM	8	4	1846	1837	1836			
3	SSBQAM	8	7	1834	1842	1843	20		
3	SSBQAM	16	0	1848	1844	1835			
3	SSBQAM	16	0	1843	1845	1838			
Channel									
Frequency (MHz)									
ISD									
1.4	QPSK	1	0	2345	2352	2343	25		
1.4	QPSK	1	3	2354	2358	2348			
1.4	QPSK	1	5	2347	2351	2339			
1.4	QPSK	3	0	2353	2352	2347	24		
1.4	QPSK	3	1	2357	2352	2350			
1.4	QPSK	3	3	2353	2357	2348			
1.4	QPSK	6	0	2268	2264	2251	24		
1.4	HQAM	1	0	2279	2284	2278			
1.4	HQAM	1	5	2286	2284	2277			
1.4	HQAM	1	5	2282	2268	2272	24		
1.4	HQAM	3	0	2263	2264	2254			
1.4	HQAM	3	1	2266	2272	2260			
1.4	HQAM	3	1	2261	2263	2249	23		
1.4	HQAM	6	0	2184	2171	2158			
1.4	HQAM	1	3	2184	2181	2144			
1.4	HQAM	1	6	2178	2182	2139	23		
1.4	HQAM	3	0	2178	2174	2132			
1.4	HQAM	3	1	2178	2184	2144			
1.4	HQAM	3	1	2173	2175	2147	22		
1.4	SSBQAM	1	0	1846	1847	1851			
1.4	SSBQAM	1	5	1842	1853	1854			
1.4	SSBQAM	3	0	1845	1847	1841	20		
1.4	SSBQAM	3	1	1839	1832	1838			
1.4	SSBQAM	3	1	1834	1839	1841			
1.4	SSBQAM	6	0	1851	1840	1842	20		



Band 7_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)			
Channel				2490	2490	2490				
Frequency (MHz)				2510	2535	2560				
20	QPSK	1	0	2387	2384	2389	25.5			
20	QPSK	1	49	2353	2359	2364				
20	QPSK	1	99	2319	2408	2402				
20	QPSK	60	0	2297	2302	2307	24.5			
20	QPSK	50	24	2310	2309	2308				
20	QPSK	50	50	2311	2316	2313				
20	HQAM	1	0	2327	2330	2333	24.5			
20	HQAM	1	49	2329	2338	2336				
20	HQAM	1	99	2333	2340	2334				
20	HQAM	50	0	2198	2204	2202	23.5			
20	HQAM	50	24	2210	2210	2210				
20	HQAM	50	50	2213	2217	2214				
20	HQAM	100	0	2208	2207	2203	23.5			
20	HQAM	1	49	2210	2210	2210				
20	HQAM	1	99	2210	2210	2210				
20	HQAM	50	24	2112	2111	2108	22.5			
20	HQAM	50	50	2115	2121	2115				
20	HQAM	100	0	2112	2105	2107				
20	SSBQAM	1	0	1920	1927	1913	20.5			
20	SSBQAM	1	49	1920	1916	1922				
20	SSBQAM	1	99	1912	1917	1911				
20	SSBQAM	50	0	1912	1912	1907	20.5			
20	SSBQAM	50	24	1922	1914	1910				
20	SSBQAM	50	50	1917	1916	1913				
20	SSBQAM	100	0	1923	1911	1905	20.5			
Channel				2051.5	2051	2051.5		Time-up (min)		
Frequency (MHz)				2070.5	2035	2062.5				
15	QPSK	1	0	2383	2384	2385	25.5			
15	QPSK	1	49	2386	2390	2385				
15	QPSK	1	74	2397	2404	2394				
15	QPSK	30	0	2295	2298	2300	24.5			
15	QPSK	30	20	2308	2304	2304				
15	QPSK	30	39	2308	2313	2309				
15	QPSK	75	0	2302	2301	2301	24.5			
15	HQAM	1	0	2323	2330	2329				
15	HQAM	1	39	2324	2336	2330				
15	HQAM	1	74	2331	2334	2324	23.5			
15	HQAM	30	0	2188	2204	2201				
15	HQAM	30	20	2210	2202	2197				
15	HQAM	30	39	2210	2209	2214	23.5			
15	HQAM	75	0	2198	2205	2194				
15	HQAM	1	0	2207	2208	2208				
15	HQAM	1	74	2208	2200	2210	23.5			
15	HQAM	1	74	2214	2225	2217				
15	HQAM	30	0	2035	2038	2102				
15	HQAM	30	20	2103	2102	2106	22.5			
15	HQAM	30	39	2112	2121	2106				
15	HQAM	75	0	2109	2105	2100				
15	SSBQAM	1	0	1917	1925	1913	20.5			
15	SSBQAM	1	39	1916	1912	1910				
15	SSBQAM	1	74	1924	1915	1910				
15	SSBQAM	30	0	1904	1912	1904	20.5			
15	SSBQAM	30	20	1914	1905	1905				
15	SSBQAM	30	39	1916	1914	1908				
15	SSBQAM	75	0	1923	1904	1907	20.5			
Channel				2090	2100	2100		Time-up (min)		
Frequency (MHz)				2090	2100	2100				
10	QPSK	1	0	2389	2392	2389	25.5			
10	QPSK	1	25	2393	2390	2384				
10	QPSK	1	49	2396	2401	2396				
10	QPSK	25	0	2291	2299	2297	24.5			
10	QPSK	25	12	2307	2306	2300				
10	QPSK	25	25	2301	2309	2303				
10	QPSK	50	0	2299	2306	2301	24.5			
10	HQAM	1	0	2317	2324	2326				
10	HQAM	1	25	2327	2334	2335				
10	HQAM	1	49	2331	2339	2331	23.5			
10	HQAM	25	0	2195	2200	2195				
10	HQAM	25	12	2207	2208	2206				
10	HQAM	25	25	2208	2210	2207	23.5			
10	HQAM	50	0	2202	2204	2200				
10	HQAM	1	0	2200	2213	2210				
10	HQAM	1	25	2206	2216	2218	22.5			
10	HQAM	1	49	2214	2231	2225				
10	HQAM	25	0	2091	2102	2096				
10	HQAM	25	12	2104	2104	2102	22.5			
10	HQAM	25	25	2108	2114	2109				
10	HQAM	50	0	2119	2105	2102				
10	SSBQAM	1	0	1915	1919	1910	20.5			
10	SSBQAM	1	25	1920	1907	1922				
10	SSBQAM	1	49	1919	1909	1903				
10	SSBQAM	25	0	1903	1905	1906	20.5			
10	SSBQAM	25	12	1921	1907	1909				
10	SSBQAM	25	25	1916	1908	1908				
10	SSBQAM	50	0	1918	1904	1909	20.5			
Channel				2077.5	2100	2102.5		Time-up (min)		
Frequency (MHz)				2077.5	2100	2102.5				
5	QPSK	1	0	2384	2383	2380	25.5			
5	QPSK	1	12	2393	2393	2388				
5	QPSK	1	24	2399	2402	2395				
5	QPSK	15	0	2296	2293	2299	24.5			
5	QPSK	12	7	2309	2302	2296				
5	QPSK	12	15	2311	2314	2313				
5	QPSK	25	0	2304	2298	2301	24.5			
5	HQAM	1	0	2317	2328	2319				
5	HQAM	1	12	2325	2335	2330				
5	HQAM	1	24	2332	2334	2334	23.5			
5	HQAM	12	0	2194	2198	2198				
5	HQAM	12	12	2203	2202	2205				
5	HQAM	12	12	2210	2215	2214	23.5			
5	HQAM	25	0	2200	2207	2195				
5	HQAM	1	0	2201	2210	2209				
5	HQAM	1	12	2210	2221	2215	23.5			
5	HQAM	11	24	2219	2231	2219				
5	HQAM	12	0	2091	2099	2099				
5	HQAM	12	7	2107	2102	2103	22.5			
5	HQAM	12	12	2108	2117	2108				
5	HQAM	25	0	2104	2102	2107				
5	SSBQAM	1	0	1911	1925	1911	20.5			
5	SSBQAM	1	12	1925	1906	1915				
5	SSBQAM	1	24	1908	1910	1903				
5	SSBQAM	12	0	1908	1906	1906	20.5			
5	SSBQAM	12	12	1922	1913	1900				
5	SSBQAM	12	12	1912	1907	1913				
5	SSBQAM	25	0	1922	1907	1902	20.5			



Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up time (min)		
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
10	QPSK	1	0	2448	2458	2459	25.7		
10	QPSK	1	26	2439	2442	2440			
10	QPSK	1	49	2450	2443	2448	24.7		
10	QPSK	26	0	2353	2354	2353			
10	QPSK	26	12	2380	2353	2353	24.7		
10	QPSK	26	26	2358	2359	2360			
10	QPSK	50	0	2381	2353	2353	24.7		
10	HQAM	1	0	2382	2376	2378			
10	HQAM	1	26	2381	2382	2380	23.7		
10	HQAM	1	49	2387	2386	2378			
10	HQAM	26	0	2254	2255	2253	23.7		
10	HQAM	26	12	2261	2255	2254			
10	HQAM	26	26	2259	2260	2257	23.7		
10	HQAM	50	0	2260	2255	2252			
10	HQAM	1	0	2254	2254	2262	22.7		
10	HQAM	1	26	2271	2276	2274			
10	HQAM	1	49	2273	2254	2239	22.7		
10	HQAM	26	0	2127	2136	2136			
10	HQAM	26	12	2149	2155	2158	20.7		
10	HQAM	26	26	2153	2160	2161			
10	HQAM	50	0	2141	2155	2159	20.7		
10	256QAM	1	0	1947	1986	1947			
10	256QAM	1	26	1953	1973	1949	20.7		
10	256QAM	1	49	1964	1955	1937			
10	256QAM	26	0	1944	1946	1940	20.7		
10	256QAM	26	12	1945	1946	1946			
10	256QAM	26	26	1939	1941	1943	20.7		
10	256QAM	50	0	1951	1943	1941			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
5	QPSK	1	0	2448	2447	2439	25.7		
5	QPSK	1	26	2448	2448	2440			
5	QPSK	1	24	2447	2449	2446	24.7		
5	QPSK	12	0	2362	2354	2355			
5	QPSK	12	6	2355	2358	2359	24.7		
5	QPSK	12	12	2355	2354	2351			
5	QPSK	26	0	2358	2352	2352	24.7		
5	HQAM	1	0	2383	2383	2373			
5	HQAM	1	12	2380	2379	2373	23.7		
5	HQAM	1	24	2382	2380	2376			
5	HQAM	12	0	2266	2262	2259	23.7		
5	HQAM	12	6	2258	2254	2254			
5	HQAM	12	12	2261	2259	2254	23.7		
5	HQAM	26	0	2259	2253	2253			
5	HQAM	1	0	2224	2237	2286	23.7		
5	HQAM	1	24	2248	2274	2299			
5	HQAM	1	24	2223	2273	2249	22.7		
5	HQAM	12	0	2135	2194	2160			
5	HQAM	12	6	2145	2187	2161	20.7		
5	HQAM	12	12	2135	2180	2142			
5	HQAM	26	0	2111	2157	2150	20.7		
5	256QAM	1	0	1938	1936	1945			
5	256QAM	1	12	1950	1984	1939	20.7		
5	256QAM	1	24	1952	1947	1954			
5	256QAM	12	0	1943	1938	1932	20.7		
5	256QAM	12	6	1938	1932	1945			
5	256QAM	12	12	1938	1938	1934	20.7		
5	256QAM	26	0	1947	1933	1933			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
3	QPSK	1	0	2448	2437	2433	25.7		
3	QPSK	1	6	2434	2442	2436			
3	QPSK	1	11	2443	2433	2436	24.7		
3	QPSK	6	0	2343	2354	2348			
3	QPSK	6	4	2352	2349	2351	24.7		
3	QPSK	6	8	2349	2358	2351			
3	QPSK	16	0	2358	2351	2345	24.7		
3	HQAM	1	0	2376	2386	2370			
3	HQAM	1	6	2376	2379	2372	23.7		
3	HQAM	1	14	2385	2383	2389			
3	HQAM	1	6	2252	2251	2249	23.7		
3	HQAM	6	4	2260	2245	2242			
3	HQAM	6	7	2250	2250	2254	23.7		
3	HQAM	16	0	2267	2250	2245			
3	HQAM	1	0	2247	2255	2267	22.7		
3	HQAM	1	6	2266	2272	2274			
3	HQAM	1	14	2266	2248	2233	22.7		
3	HQAM	6	0	2117	2131	2155			
3	HQAM	6	4	2140	2152	2159	22.7		
3	HQAM	6	7	2147	2153	2153			
3	HQAM	16	0	2131	2149	2150	20.7		
3	256QAM	1	0	1944	1957	1941			
3	256QAM	1	6	1949	1958	1948	20.7		
3	256QAM	1	14	1958	1954	1949			
3	256QAM	6	0	1943	1936	1930	20.7		
3	256QAM	6	4	1943	1939	1943			
3	256QAM	6	7	1937	1941	1942	20.7		
3	256QAM	16	0	1943	1937	1939			
Channel									
Frequency (MHz)									
707.5 717.5 721.5									
1.4	QPSK	1	0	2444	2433	2436	25.7		
1.4	QPSK	1	3	2444	2442	2438			
1.4	QPSK	1	5	2437	2436	2429	24.7		
1.4	QPSK	3	1	2442	2438	2437			
1.4	QPSK	3	1	2449	2442	2440	24.7		
1.4	QPSK	3	3	2443	2443	2437			
1.4	QPSK	6	0	2359	2347	2343	24.7		
1.4	HQAM	1	0	2376	2387	2371			
1.4	HQAM	1	5	2378	2386	2377	24.7		
1.4	HQAM	1	5	2370	2369	2363			
1.4	HQAM	3	0	2353	2347	2347	23.7		
1.4	HQAM	3	0	2366	2351	2350			
1.4	HQAM	3	1	2351	2350	2343	23.7		
1.4	HQAM	6	0	2257	2256	2249			
1.4	HQAM	1	0	2234	2261	2237	23.7		
1.4	HQAM	1	3	2245	2272	2234			
1.4	HQAM	1	6	2247	2263	2220	23.7		
1.4	HQAM	3	0	2228	2256	2239			
1.4	HQAM	3	1	2228	2261	2237	22.7		
1.4	HQAM	6	0	2123	2150	2123			
1.4	256QAM	1	0	1938	1958	1939	20.7		
1.4	256QAM	1	6	1945	1971	1941			
1.4	256QAM	1	6	1951	1954	1953	20.7		
1.4	256QAM	3	0	1943	1943	1936			
1.4	256QAM	3	0	1938	1942	1937	20.7		
1.4	256QAM	3	1	1939	1931	1938			
1.4	256QAM	6	0	1949	1937	1939	20.7		



Band 13_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2153		
10	QPSK	1	25	2151		
10	QPSK	1	49	2157		
10	QPSK	25	0	2240		
10	QPSK	25	12	2241		
10	QPSK	25	25	2245		
10	QPSK	50	0	2251		
10	16QAM	1	0	2282		
10	16QAM	1	25	2286		
10	16QAM	1	49	2288		
10	16QAM	25	0	2151		
10	16QAM	25	12	2156		
10	16QAM	25	25	2160		
10	16QAM	50	0	2194		
10	16QAM	1	0	2190		
10	16QAM	1	25	2151		
10	16QAM	1	49	2178		
10	16QAM	25	0	2095		
10	16QAM	25	12	2089		
10	16QAM	25	25	2071		
10	16QAM	50	0	2068		
10	256QAM	1	0	1825		
10	256QAM	1	25	1850		
10	256QAM	1	49	1870		
10	256QAM	25	0	1841		
10	256QAM	25	12	1846		
10	256QAM	25	25	1859		
10	256QAM	50	0	1844		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2345	2348	2322
5	QPSK	1	24	2350	2354	2334
5	QPSK	1	24	2355	2356	2331
5	QPSK	12	0	2258	2259	2232
5	QPSK	12	12	2262	2263	2240
5	QPSK	12	12	2265	2267	2238
5	QPSK	25	0	2265	2263	2237
5	16QAM	1	0	2284	2278	2250
5	16QAM	1	12	2275	2282	2249
5	16QAM	1	24	2284	2288	2251
5	16QAM	12	0	2182	2184	2136
5	16QAM	12	7	2188	2184	2143
5	16QAM	12	13	2184	2171	2142
5	16QAM	25	0	2170	2163	2141
5	16QAM	1	0	2173	2168	2142
5	16QAM	1	24	2168	2181	2148
5	16QAM	1	24	2177	2181	2148
5	16QAM	12	0	2086	2070	2043
5	16QAM	12	7	2072	2087	2045
5	16QAM	12	13	2071	2075	2043
5	16QAM	25	0	2073	2086	2042
5	256QAM	1	0	1816	1824	1822
5	256QAM	1	12	1843	1845	1847
5	256QAM	1	24	1865	1867	1866
5	256QAM	12	0	1837	1835	1838
5	256QAM	12	7	1848	1836	1840
5	256QAM	12	13	1838	1835	1834
5	256QAM	25	0	1837	1834	1841



Band 14_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	23.68	23.68	23.68
10	QPSK	1	49	23.68	23.68	23.68
10	QPSK	25	0	22.63	22.63	22.63
10	QPSK	25	12	22.65	22.65	22.65
10	QPSK	25	25	22.74	22.74	22.74
10	QPSK	50	0	22.97	22.97	22.97
10	16QAM	1	0	23.92	23.92	23.92
10	16QAM	1	25	22.99	22.99	22.99
10	16QAM	1	49	22.97	22.97	22.97
10	16QAM	25	0	21.85	21.85	21.85
10	16QAM	25	12	21.88	21.88	21.88
10	16QAM	25	25	21.73	21.73	21.73
10	16QAM	50	0	21.88	21.88	21.88
10	16QAM	1	0	21.90	21.90	21.90
10	16QAM	1	25	21.95	21.95	21.95
10	16QAM	1	49	21.99	21.99	21.99
10	16QAM	25	0	20.87	20.87	20.87
10	16QAM	25	12	20.89	20.89	20.89
10	16QAM	25	25	20.76	20.76	20.76
10	16QAM	50	0	20.87	20.87	20.87
10	256QAM	1	0	18.45	18.45	18.45
10	256QAM	1	25	18.58	18.58	18.58
10	256QAM	1	49	18.74	18.74	18.74
10	256QAM	25	0	18.50	18.50	18.50
10	256QAM	25	12	18.44	18.44	18.44
10	256QAM	25	25	18.47	18.47	18.47
10	256QAM	50	0	18.50	18.50	18.50
Channel						
Frequency (MHz)						
5	QPSK	1	0	23.68	23.68	23.68
5	QPSK	1	49	23.63	23.63	23.63
5	QPSK	1	24	23.65	23.64	23.58
5	QPSK	12	0	22.71	22.65	22.84
5	QPSK	12	12	22.76	22.73	22.70
5	QPSK	12	13	22.71	22.73	22.88
5	QPSK	25	0	22.89	22.86	22.83
5	16QAM	1	0	22.91	22.92	22.97
5	16QAM	1	12	23.09	23.02	22.98
5	16QAM	1	24	22.98	23.00	22.99
5	16QAM	12	0	21.73	21.68	21.64
5	16QAM	12	7	21.77	21.77	21.78
5	16QAM	12	13	21.73	21.72	21.86
5	16QAM	25	0	21.71	21.68	21.64
5	16QAM	1	0	21.87	21.89	21.85
5	16QAM	1	49	21.93	22.00	21.94
5	16QAM	1	24	21.90	21.95	21.92
5	16QAM	12	0	20.89	20.71	20.89
5	16QAM	12	7	20.78	20.83	20.75
5	16QAM	12	13	20.75	20.76	20.89
5	16QAM	25	0	20.72	20.87	20.89
5	256QAM	1	0	18.38	18.37	18.42
5	256QAM	1	12	18.55	18.48	18.55
5	256QAM	1	24	18.74	18.72	18.65
5	256QAM	12	7	18.38	18.34	18.35
5	256QAM	12	13	18.47	18.46	18.39
5	256QAM	25	0	18.40	18.47	18.44



Band 17_Ant 1								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)	
Channel				700	710	711		
Frequency (MHz)				2430	2490	2550		
10	QPSK	1	0	2436	2436	2436	25	
10	QPSK	1	26	2436	2437	2437		
10	QPSK	1	49	2437	2445	2438		
10	QPSK	26	0	2438	2438	2441	24	
10	QPSK	26	12	2439	2450	2448		
10	QPSK	26	26	2439	2457	2455		
10	QPSK	50	0	2447	2448	2445	24	
10	HQAM	1	0	2470	2488	2489		
10	HQAM	1	26	2470	2478	2474		
10	HQAM	1	49	2478	2480	2477	23	
10	HQAM	26	0	2441	2441	2441		
10	HQAM	26	12	2455	2448	2447		
10	HQAM	26	26	2457	2454	2451	23	
10	HQAM	50	0	2444	2448	2442		
10	HQAM	1	0	2455	2454	2450		
10	HQAM	1	26	2457	2459	2458	23	
10	HQAM	1	49	2453	2460	2448		
10	HQAM	26	0	2043	2043	2044		
10	HQAM	26	12	2049	2051	2051	22	
10	HQAM	26	26	2050	2058	2058		
10	HQAM	50	0	2049	2047	2046		
10	256QAM	1	0	1834	1839	1822	20	
10	256QAM	1	26	1843	1840	1841		
10	256QAM	1	49	1854	1847	1838		
10	256QAM	26	0	1831	1827	1830	20	
10	256QAM	26	12	1830	1846	1834		
10	256QAM	26	26	1840	1837	1839		
10	256QAM	50	0	1827	1840	1831	20	
Channel				2430	2490	2550		
Frequency (MHz)				700.5	710	711.5		
5	QPSK	1	0	2433	2438	2427	25	
5	QPSK	1	26	2443	2442	2430		
5	QPSK	1	24	2443	2444	2440		
5	QPSK	12	0	2244	2246	2241	24	
5	QPSK	12	12	2251	2248	2243		
5	QPSK	12	13	2253	2252	2245		
5	QPSK	26	0	2249	2247	2242	24	
5	HQAM	1	0	2266	2267	2266		
5	HQAM	1	12	2274	2278	2270		
5	HQAM	1	24	2278	2278	2275	24	
5	HQAM	12	0	2148	2147	2146		
5	HQAM	12	7	2153	2152	2145		
5	HQAM	12	13	2154	2152	2147	23	
5	HQAM	26	0	2151	2148	2144		
5	HQAM	1	0	2167	2166	2163		
5	HQAM	1	26	2166	2170	2164	23	
5	HQAM	1	24	2179	2178	2187		
5	HQAM	12	0	2050	2049	2047		
5	HQAM	12	7	2057	2055	2051	22	
5	HQAM	12	13	2057	2058	2052		
5	HQAM	26	0	2051	2049	2044		
5	256QAM	1	0	1825	1831	1816	20	
5	256QAM	1	12	1840	1845	1842		
5	256QAM	1	24	1852	1839	1837		
5	256QAM	12	7	1828	1833	1830	20	
5	256QAM	12	13	1836	1837	1837		
5	256QAM	26	0	1820	1830	1831		



Band 26_Ant 1									
RF (MHz)	Modulation	RB Size	RB Offset	Power Low Ch /Freq	Power Mid Ch /Freq	Power High Ch /Freq	Power Max	Power Min	Time-up (sec)
Channel 2615									
Frequency (MHz)									
811.5 811.5 811.5									
15	QPSK	1	0	23.80	23.80	23.81	23.81	23.41	25
15	QPSK	3	0	23.48	23.48	23.41	23.41		
15	QPSK	1	74	23.51	23.48	23.33	23.33		
15	QPSK	36	0	22.63	22.64	22.51	22.51	24	
15	QPSK	38	20	22.61	22.63	22.55	22.55		
15	QPSK	38	39	22.62	22.62	22.54	22.54		
15	QPSK	75	0	22.68	22.64	22.57	22.57	24	
15	QPSK	1	0	22.87	22.79	22.78	22.78		
15	HQAM	1	37	22.78	22.78	22.76	22.76		
15	HQAM	74	0	22.74	22.74	22.64	22.64	23	
15	HQAM	38	0	21.61	21.60	21.59	21.59		
15	HQAM	38	39	21.64	21.64	21.56	21.56		
15	HQAM	75	0	21.61	21.62	21.58	21.58	23	
15	HQAM	1	0	21.98	21.94	21.93	21.93		
15	HQAM	1	37	21.71	21.74	21.68	21.68		
15	HQAM	1	74	21.73	21.68	21.68	21.68	22	
15	HQAM	38	0	20.28	20.63	20.65	20.65		
15	HQAM	38	20	20.52	20.69	20.66	20.66		
15	HQAM	38	39	20.65	20.68	20.48	20.48	20	
15	HQAM	75	0	20.27	20.68	20.58	20.58		
15	HQAM	1	0	18.84	18.53	18.58	18.58		
15	HQAM	1	37	18.58	18.53	18.50	18.50	20	
15	HQAM	74	0	18.50	18.57	18.48	18.48		
15	HQAM	38	0	18.48	18.50	18.50	18.50		
15	HQAM	38	39	18.48	18.47	18.38	18.38	20	
15	HQAM	38	39	18.37	18.41	18.42	18.42		
15	HQAM	75	0	18.48	18.51	18.39	18.39		
Channel 2616									
Frequency (MHz)									
819 811.5 811									
10	QPSK	1	0	23.54	23.39	23.45	23.45	25	
10	QPSK	3	28	23.38	23.40	23.42	23.42		
10	QPSK	1	49	23.42	23.49	23.29	23.29		
10	QPSK	25	0	22.59	22.55	22.55	22.55	24	
10	QPSK	26	0	22.63	22.60	22.50	22.50		
10	QPSK	26	26	22.62	22.67	22.49	22.49		
10	QPSK	50	0	22.64	22.64	22.53	22.53	24	
10	HQAM	1	0	22.82	22.78	22.71	22.71		
10	HQAM	1	26	22.76	22.73	22.73	22.73		
10	HQAM	1	49	22.73	22.71	22.68	22.68	23	
10	HQAM	25	0	21.67	21.69	21.67	21.67		
10	HQAM	25	12	21.57	21.58	21.53	21.53		
10	HQAM	25	29	21.67	21.62	21.54	21.54	23	
10	HQAM	50	0	21.68	21.63	21.50	21.50		
10	HQAM	1	0	21.73	21.62	21.68	21.68		
10	HQAM	1	26	21.68	21.74	21.59	21.59	23	
10	HQAM	1	49	21.71	21.60	21.68	21.68		
10	HQAM	25	0	20.22	20.60	20.61	20.61		
10	HQAM	25	12	20.44	20.67	20.57	20.57	22	
10	HQAM	25	26	20.57	20.62	20.42	20.42		
10	HQAM	50	0	20.62	20.59	20.51	20.51		
10	HQAM	1	0	18.51	18.49	18.55	18.55	20	
10	HQAM	1	26	18.49	18.47	18.47	18.47		
10	HQAM	1	49	18.54	18.51	18.43	18.43		
10	HQAM	25	0	18.41	18.45	18.43	18.43	20	
10	HQAM	25	12	18.48	18.45	18.30	18.30		
10	HQAM	25	26	18.35	18.40	18.42	18.42		
10	HQAM	50	0	18.45	18.41	18.37	18.37	20	



Band 30_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq	Power Middle Ch. F/Freq	Power High Ch. F/Freq	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.87			25.7
10	QPSK	1	25	23.88			
10	QPSK	1	49	23.85			
10	QPSK	25	0	22.90			24.7
10	QPSK	25	12	22.94			
10	QPSK	25	25	22.96			
10	QPSK	50	0	22.94			24.7
10	16QAM	1	0	23.21			
10	16QAM	1	25	23.25			
10	16QAM	1	49	23.23			23.7
10	16QAM	25	0	21.88			
10	16QAM	25	12	21.97			
10	16QAM	25	25	21.94			23.7
10	16QAM	50	0	21.93			
10	16QAM	1	0	22.90			
10	16QAM	1	25	22.17			22.7
10	16QAM	1	49	22.02			
10	16QAM	25	0	20.92			
10	16QAM	25	12	21.82			22.7
10	16QAM	25	25	20.95			
10	16QAM	50	0	20.98			
10	256QAM	1	0	19.20			20.7
10	256QAM	1	25	19.23			
10	256QAM	1	49	19.13			
10	256QAM	25	0	18.96			20.7
10	256QAM	25	12	19.06			
10	256QAM	25	25	19.03			
10	256QAM	50	0	19.03			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.75	23.79	23.86	25.7
5	QPSK	1	24	23.82	23.86	23.90	
5	QPSK	1	24	23.85	23.87	23.79	
5	QPSK	12	0	22.87	22.89	22.94	24.7
5	QPSK	12	12	22.98	22.94	22.98	
5	QPSK	12	12	22.89	22.83	22.86	
5	QPSK	25	0	22.97	22.94	22.96	24.7
5	16QAM	1	0	23.07	23.10	23.17	
5	16QAM	1	12	23.18	23.17	23.19	
5	16QAM	1	24	23.24	23.18	23.29	23.7
5	16QAM	12	0	22.01	21.98	22.00	
5	16QAM	12	12	22.01	21.95	21.96	
5	16QAM	25	0	21.98	21.94	21.94	23.7
5	16QAM	1	0	22.03	22.08	21.87	
5	16QAM	1	24	22.16	22.14	21.97	
5	16QAM	1	24	22.16	22.09	21.83	22.7
5	16QAM	12	0	20.94	20.96	20.93	
5	16QAM	12	12	21.05	21.02	20.95	
5	16QAM	12	12	21.05	20.96	20.95	20.7
5	16QAM	25	0	21.01	21.00	20.81	
5	256QAM	1	0	19.11	19.19	19.16	
5	256QAM	1	12	19.21	19.19	19.22	20.7
5	256QAM	1	24	19.06	19.05	19.05	
5	256QAM	12	0	18.93	18.98	19.00	
5	256QAM	12	7	18.99	19.06	18.96	20.7
5	256QAM	12	19	19.03	19.03	19.00	
5	256QAM	25	0	19.03	18.96	19.01	



Band 71_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)		
Channel									
Frequency (MHz)									
693 693 698									
20	QPSK	1	0	2348	2348	2337	25		
20	QPSK	1	49	2342	2341	2337			
20	QPSK	1	99	2336	2339	2338			
20	QPSK	69	0	2297	2298	2248			
20	QPSK	50	24	2254	2249	2248	24		
20	QPSK	50	50	2258	2251	2250			
20	QPSK	100	0	2251	2252	2248			
20	QPSK	1	0	2286	2282	2274			
20	HQAM	1	49	2277	2277	2276	24		
20	HQAM	1	99	2271	2272	2271			
20	HQAM	50	0	2159	2153	2148			
20	HQAM	50	24	2161	2161	2149			
20	HQAM	50	50	2158	2153	2150	23		
20	HQAM	100	0	2159	2148	2148			
20	HQAM	1	0	2173	2167	2163			
20	HQAM	1	49	2159	2150	2158			
20	HQAM	1	99	2159	2163	2160	23		
20	HQAM	50	0	2053	2056	2047			
20	HQAM	50	24	2063	2054	2051			
20	HQAM	50	50	2060	2056	2053			
20	HQAM	100	0	2061	2052	2049	22		
20	HQAM	1	0	1858	1844	1837			
20	HQAM	1	49	1857	1852	1846			
20	HQAM	1	99	1846	1845	1848			
20	HQAM	50	0	1847	1843	1836	20		
20	HQAM	50	24	1841	1835	1829			
20	HQAM	50	50	1835	1835	1827			
20	HQAM	100	0	1843	1836	1829			
Channel									
Frequency (MHz)									
670.5 680.5 690.5									
15	QPSK	1	0	2341	2346	2329	25		
15	QPSK	1	49	2346	2337	2330			
15	QPSK	1	74	2325	2332	2327			
15	QPSK	39	0	2249	2248	2241			
15	QPSK	39	26	2250	2245	2240	24		
15	QPSK	39	39	2247	2241	2244			
15	QPSK	75	0	2247	2245	2242			
15	HQAM	1	0	2289	2282	2271			
15	HQAM	1	39	2275	2267	2269	24		
15	HQAM	1	74	2268	2270	2270			
15	HQAM	39	0	2153	2153	2144			
15	HQAM	39	26	2156	2142	2144			
15	HQAM	39	39	2146	2151	2146	23		
15	HQAM	75	0	2153	2141	2144			
15	HQAM	1	0	2166	2157	2162			
15	HQAM	1	39	2156	2151	2155			
15	HQAM	1	74	2150	2158	2160	23		
15	HQAM	39	0	2047	2049	2042			
15	HQAM	39	26	2052	2054	2050			
15	HQAM	39	39	2052	2054	2050			
15	HQAM	75	0	2056	2046	2049	22		
15	HQAM	1	0	1853	1840	1835			
15	HQAM	1	39	1852	1831	1843			
15	HQAM	1	74	1846	1835	1847			
15	HQAM	39	0	1843	1840	1834	20		
15	HQAM	39	26	1838	1835	1823			
15	HQAM	39	39	1830	1830	1822			
15	HQAM	75	0	1839	1833	1819			
Channel									
Frequency (MHz)									
13312 13322 13342									
10	QPSK	1	0	2340	2348	2335	25		
10	QPSK	1	25	2340	2338	2334			
10	QPSK	1	49	2325	2334	2334			
10	QPSK	25	0	2287	2283	2289			
10	QPSK	25	12	2283	2248	2247	24		
10	QPSK	25	25	2281	2248	2249			
10	QPSK	50	0	2248	2245	2240			
10	HQAM	1	0	2286	2282	2270			
10	HQAM	1	25	2287	2269	2276	24		
10	HQAM	1	49	2284	2282	2285			
10	HQAM	25	0	2152	2152	2139			
10	HQAM	25	12	2159	2151	2146			
10	HQAM	25	25	2150	2143	2146	23		
10	HQAM	50	0	2154	2148	2140			
10	HQAM	1	0	2172	2163	2155			
10	HQAM	1	25	2184	2127	2153			
10	HQAM	1	49	2149	2156	2159	23		
10	HQAM	25	0	2040	2036	2040			
10	HQAM	25	12	2052	2045	2049			
10	HQAM	25	25	2058	2053	2051			
10	HQAM	50	0	2056	2050	2042	22		
10	HQAM	1	0	1848	1839	1832			
10	HQAM	1	25	1847	1824	1841			
10	HQAM	1	49	1845	1843	1844			
10	HQAM	25	0	1838	1840	1832	20		
10	HQAM	25	12	1834	1828	1823			
10	HQAM	25	25	1833	1834	1823			
10	HQAM	50	0	1841	1838	1823			
Channel									
Frequency (MHz)									
692.5 670.5 690.5									
5	QPSK	1	0	2341	2345	2331	25		
5	QPSK	1	12	2336	2341	2331			
5	QPSK	1	24	2328	2338	2329			
5	QPSK	19	0	2250	2256	2238			
5	QPSK	12	7	2245	2243	2239	24		
5	QPSK	12	19	2250	2244	2246			
5	QPSK	24	0	2243	2244	2242			
5	HQAM	1	0	2279	2277	2285			
5	HQAM	1	12	2270	2274	2287	24		
5	HQAM	1	24	2262	2269	2262			
5	HQAM	12	0	2149	2152	2146			
5	HQAM	12	19	2154	2146	2140			
5	HQAM	12	19	2149	2148	2149	23		
5	HQAM	25	0	2153	2139	2146			
5	HQAM	1	0	2173	2160	2158			
5	HQAM	1	12	2182	2188	2185			
5	HQAM	1	24	2159	2160	2159	23		
5	HQAM	12	0	2046	2047	2043			
5	HQAM	12	7	2061	2053	2049			
5	HQAM	12	19	2059	2054	2046			
5	HQAM	25	0	2059	2052	2047	22		
5	HQAM	1	0	1856	1838	1849			
5	HQAM	1	12	1857	1823	1846			
5	HQAM	1	24	1842	1841	1848			
5	HQAM	12	0	1847	1835	1832	20		
5	HQAM	12	19	1849	1832	1827			
5	HQAM	12	19	1830	1826	1820			
5	HQAM	25	0	1834	1827	1822			



Band 5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up time (min)		
Channel				800	886.5	864			
Frequency (MHz)									
10	QPSK	1	0	2448	2454	2453	25.7		
10	QPSK	1	26	2448	2452	2450			
10	QPSK	1	49	2458	2448	2443			
10	QPSK	25	0	2358	2364	2362	24.7		
10	QPSK	25	12	2369	2365	2362			
10	QPSK	25	25	2363	2367	2362			
10	HQAM	50	0	2307	2314	2310	24.7		
10	HQAM	1	0	2388	2389	2384			
10	HQAM	1	26	2390	2393	2391			
10	HQAM	1	49	2395	2390	2381	23.7		
10	HQAM	26	0	2257	2252	2259			
10	HQAM	26	12	2258	2264	2257			
10	HQAM	26	25	2264	2263	2266	23.7		
10	HQAM	50	0	2298	2292	2298			
10	HQAM	1	26	2294	2293	2293			
10	HQAM	1	49	2292	2291	2291	22.7		
10	HQAM	26	0	2162	2166	2164			
10	HQAM	26	12	2171	2169	2167			
10	HQAM	26	25	2166	2170	2167	20.7		
10	HQAM	50	0	2109	2106	2102			
10	SSBQAM	1	0	1940	1933	1932			
10	SSBQAM	1	26	1944	1945	1944	20.7		
10	SSBQAM	49	0	1932	1948	1937			
10	SSBQAM	25	0	1941	1941	1943			
10	SSBQAM	25	12	1944	1939	1939	20.7		
10	SSBQAM	25	25	1934	1938	1938			
10	SSBQAM	50	0	1944	1937	1938			
Channel				826.5	886.5	864			
Frequency (MHz)									
5	QPSK	1	0	2454	2452	2448	25.7		
5	QPSK	1	24	2450	2453	2448			
5	QPSK	1	24	2446	2448	2448			
5	QPSK	12	0	2359	2370	2381	24.7		
5	QPSK	12	12	2368	2367	2355			
5	QPSK	12	12	2380	2385	2384			
5	QPSK	25	0	2363	2369	2355	24.7		
5	HQAM	1	0	2399	2395	2389			
5	HQAM	1	12	2389	2395	2383			
5	HQAM	1	24	2389	2391	2378	23.7		
5	HQAM	12	0	2284	2272	2281			
5	HQAM	12	7	2298	2299	2298			
5	HQAM	12	12	2295	2297	2297	23.7		
5	HQAM	25	0	2269	2271	2258			
5	HQAM	1	0	2281	2290	2282			
5	HQAM	1	24	2282	2286	2287	22.7		
5	HQAM	1	24	2282	2286	2282			
5	HQAM	12	0	2189	2175	2187			
5	HQAM	12	7	2173	2175	2141	20.7		
5	HQAM	12	12	2188	2170	2122			
5	HQAM	25	0	2189	2174	2145			
5	SSBQAM	1	0	1933	1948	1944	20.7		
5	SSBQAM	1	12	1940	1941	1941			
5	SSBQAM	1	24	1938	1945	1934			
5	SSBQAM	12	0	1935	1932	1943	20.7		
5	SSBQAM	12	7	1937	1928	1930			
5	SSBQAM	12	12	1933	1938	1938			
5	SSBQAM	25	0	1934	1937	1933			
Channel				826.5	886.5	864			
Frequency (MHz)									
3	QPSK	1	0	2380	2387	2385	25.7		
3	QPSK	1	8	2387	2394	2383			
3	QPSK	8	0	2378	2383	2371			
3	QPSK	8	0	2289	2293	2287	24.7		
3	QPSK	8	4	2295	2301	2287			
3	QPSK	8	0	2298	2293	2283			
3	QPSK	16	0	2290	2297	2286	24.7		
3	HQAM	1	0	2311	2317	2311			
3	HQAM	1	8	2308	2303	2313			
3	HQAM	1	14	2311	2318	2303	23.7		
3	HQAM	8	4	2306	2300	2304			
3	HQAM	8	4	2308	2296	2306			
3	HQAM	8	7	2306	2308	2307	22.7		
3	HQAM	16	0	2196	2201	2190			
3	HQAM	1	0	2303	2215	2190			
3	HQAM	1	8	2313	2221	2171	22.7		
3	HQAM	8	4	2304	2303	2178			
3	HQAM	8	7	2309	2098	2171			
3	HQAM	16	0	2192	2098	2172	20.7		
3	SSBQAM	1	0	1945	1945	1946			
3	SSBQAM	1	8	1938	1939	1944			
3	SSBQAM	1	14	1948	1947	1929	20.7		
3	SSBQAM	8	4	1935	1939	1932			
3	SSBQAM	8	4	1935	1939	1927			
3	SSBQAM	8	7	1933	1933	1920	20.7		
3	SSBQAM	16	0	1938	1938	1931			
3	SSBQAM	16	0	1947	1938	1931			
Channel				824.7	886.5	864			
Frequency (MHz)									
1.4	QPSK	1	0	2371	2379	2370	25.7		
1.4	QPSK	1	3	2380	2386	2376			
1.4	QPSK	1	5	2370	2380	2371			
1.4	QPSK	3	0	2389	2380	2375	24.7		
1.4	QPSK	3	1	2383	2380	2380			
1.4	QPSK	3	3	2378	2381	2372			
1.4	QPSK	6	0	2283	2291	2277	24.7		
1.4	HQAM	1	0	2305	2311	2307			
1.4	HQAM	1	5	2314	2321	2312			
1.4	HQAM	1	5	2307	2312	2300	23.7		
1.4	HQAM	3	0	2289	2289	2282			
1.4	HQAM	3	1	2295	2300	2286			
1.4	HQAM	3	1	2283	2291	2278	23.7		
1.4	HQAM	6	0	2191	2199	2186			
1.4	HQAM	1	0	2198	2204	2172			
1.4	HQAM	1	3	2210	2215	2178	23.7		
1.4	HQAM	1	6	2200	2204	2172			
1.4	HQAM	3	1	2199	2197	2173			
1.4	HQAM	3	1	2194	2200	2173	22.7		
1.4	HQAM	6	0	2189	2183	2173			
1.4	HQAM	6	0	2078	2084	2074			
1.4	SSBQAM	1	0	1940	1948	1947	20.7		
1.4	SSBQAM	1	3	1937	1941	1941			
1.4	SSBQAM	1	5	1947	1947	1927			
1.4	SSBQAM	3	0	1931	1939	1938	20.7		
1.4	SSBQAM	3	0	1944	1938	1938			
1.4	SSBQAM	3	1	1927	1938	1923			
1.4	SSBQAM	6	0	1938	1938	1930			



Band 7_Ant 2								
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up limit (min)	
Channel								
Frequency (MHz)								
2590 2635 2660								
20	QPSK	1	0	2275	2296	2314	23.3	
20	QPSK	1	49	2255	2281	2298		
20	QPSK	1	99	2277	2297	2311		
20	QPSK	60	0	2244	2287	2324	23.3	
20	QPSK	50	24	2258	2283	2285		
20	QPSK	50	50	2259	2287	2286		
20	QPSK	100	0	2258	2272	2288	23.3	
20	HQAM	1	0	2287	2272	2310		
20	HQAM	1	49	2254	2270	2301		
20	HQAM	50	0	2289	2281	2283	23.3	
20	HQAM	50	0	2245	2259	2285		
20	HQAM	50	24	2257	2286	2284		
20	HQAM	50	50	2258	2284	2289	23.3	
20	HQAM	100	0	2258	2270	2283		
20	HQAM	1	49	2253	2278	2282		
20	HQAM	1	99	2282	2282	2211	22.7	
20	HQAM	60	0	2283	2215	2286		
20	HQAM	50	24	2283	2215	2288		
20	HQAM	50	50	2286	2223	2220	20.7	
20	HQAM	100	0	2282	2213	2219		
20	SSBQAM	1	0	1978	1977	1989		
20	SSBQAM	1	49	1983	1971	1988	20.7	
20	SSBQAM	1	99	1989	1975	1972		
20	SSBQAM	50	0	1982	1980	1984		
20	SSBQAM	50	24	1986	1985	1984	20.7	
20	SSBQAM	50	50	1971	1987	1986		
20	SSBQAM	100	0	1979	1982	1980		
Channel								
2675 2700 2725								
Frequency (MHz)								
2607.5 2635 2662.5								
15	QPSK	1	0	2268	2296	2280	23.3	
15	QPSK	1	49	2246	2281	2280		
15	QPSK	1	74	2271	2282	2274		
15	QPSK	30	0	2234	2283	2283	23.3	
15	QPSK	30	20	2253	2282	2284		
15	QPSK	30	39	2280	2278	2282		
15	QPSK	75	0	2252	2272	2284	23.3	
15	HQAM	1	0	2253	2289	2308		
15	HQAM	1	39	2249	2279	2288		
15	HQAM	1	74	2284	2284	2277	23.3	
15	HQAM	30	0	2238	2282	2283		
15	HQAM	30	20	2254	2287	2274		
15	HQAM	30	39	2285	2271	2286	23.3	
15	HQAM	75	0	2252	2261	2275		
15	HQAM	1	0	2249	2289	2289		
15	HQAM	1	74	2282	2272	2277	22.7	
15	HQAM	1	74	2282	2281	2282		
15	HQAM	30	0	2185	2214	2226		
15	HQAM	30	20	2194	2211	2265	22.7	
15	HQAM	30	39	2281	2219	2214		
15	HQAM	75	0	2184	2202	2213		
15	SSBQAM	1	0	1987	1974	1988	20.7	
15	SSBQAM	1	39	1972	1983	1985		
15	SSBQAM	30	0	1986	1986	1972		
15	SSBQAM	30	20	1987	1951	1987	20.7	
15	SSBQAM	30	39	1987	1958	1984		
15	SSBQAM	75	0	1974	1955	1957		
Channel								
2090 2100 2160								
Frequency (MHz)								
2090 2100 2160								
10	QPSK	1	0	2272	2296	2278	23.3	
10	QPSK	1	25	2289	2278	2294		
10	QPSK	1	49	2271	2287	2281		
10	QPSK	25	0	2241	2283	2281	23.3	
10	QPSK	25	12	2252	2280	2277		
10	QPSK	25	25	2251	2278	2280		
10	QPSK	50	0	2249	2284	2279	23.3	
10	HQAM	1	0	2248	2286	2306		
10	HQAM	1	25	2249	2279	2281		
10	HQAM	1	49	2284	2287	2280	23.3	
10	HQAM	25	0	2240	2282	2281		
10	HQAM	25	12	2259	2288	2276		
10	HQAM	25	25	2252	2277	2288	23.3	
10	HQAM	50	0	2256	2286	2282		
10	HQAM	1	0	2258	2280	2282		
10	HQAM	1	25	2246	2289	2278	22.7	
10	HQAM	1	49	2280	2278	2286		
10	HQAM	25	0	2185	2287	2288		
10	HQAM	25	12	2280	2211	2199	22.7	
10	HQAM	25	25	2198	2216	2211		
10	HQAM	50	0	2197	2213	2212		
10	SSBQAM	1	0	1972	1982	1982	20.7	
10	SSBQAM	1	25	1971	1985	1981		
10	SSBQAM	1	49	1988	1988	1970		
10	SSBQAM	25	0	1988	1987	1987	20.7	
10	SSBQAM	25	12	1984	1950	1958		
10	SSBQAM	25	25	1984	1960	1986		
10	SSBQAM	50	0	1971	1981	1986	20.7	
Channel								
2075 2100 2165								
Frequency (MHz)								
2075 2100 2165								
5	QPSK	1	0	2264	2284	2280	23.3	
5	QPSK	1	12	2284	2277	2301		
5	QPSK	1	24	2289	2291	2273		
5	QPSK	10	0	2242	2280	2274	23.3	
5	QPSK	12	7	2251	2284	2284		
5	QPSK	12	13	2254	2273	2277		
5	QPSK	24	0	2255	2286	2282	23.3	
5	HQAM	1	0	2247	2284	2309		
5	HQAM	1	12	2248	2279	2286		
5	HQAM	1	24	2266	2288	2281	23.3	
5	HQAM	12	0	2245	2284	2279		
5	HQAM	12	13	2251	2284	2283		
5	HQAM	12	13	2252	2283	2282	23.3	
5	HQAM	25	0	2251	2284	2283		
5	HQAM	1	0	2247	2286	2282		
5	HQAM	1	12	2282	2273	2281	23.3	
5	HQAM	11	24	2282	2273	2282		
5	HQAM	12	0	2189	2205	2206		
5	HQAM	12	7	2195	2208	2188	22.7	
5	HQAM	12	13	2186	2219	2210		
5	HQAM	25	0	2198	2207	2210		
5	SSBQAM	1	0	1988	1988	1986	20.7	
5	SSBQAM	1	12	1970	1988	1986		
5	SSBQAM	1	24	1982	1971	1986		
5	SSBQAM	12	0	1958	1951	1958	20.7	
5	SSBQAM	12	7	1983	1957	1955		
5	SSBQAM	12	13	1986	1980	1980		
5	SSBQAM	25	0	1971	1957	1954	20.7	



Band 12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)
Channel							
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	2464	2463	2459	25.7
10	QPSK	1	26	2459	2460	2462	
10	QPSK	1	49	2467	2463	2460	
10	QPSK	25	0	2372	2374	2371	24.7
10	QPSK	25	12	2378	2373	2372	
10	QPSK	25	25	2377	2379	2380	
10	QPSK	50	0	2378	2371	2373	24.7
10	HQAM	1	0	2386	2385	2387	
10	HQAM	1	26	2387	2389	2401	
10	HQAM	1	49	2408	2401	2404	23.7
10	HQAM	25	0	2271	2273	2274	
10	HQAM	25	12	2276	2273	2275	
10	HQAM	25	25	2272	2280	2277	23.7
10	HQAM	50	0	2275	2272	2274	
10	HQAM	50	0	2281	2280	2283	
10	HQAM	1	26	2288	2282	2286	22.7
10	HQAM	1	49	2286	2291	2294	
10	HQAM	25	0	2178	2174	2176	
10	HQAM	25	12	2184	2177	2178	22.7
10	HQAM	25	25	2179	2181	2180	
10	HQAM	50	0	2182	2177	2177	
10	HQAM	1	0	1942	1954	1950	20.7
10	HQAM	1	26	1958	1957	1958	
10	HQAM	1	49	1952	1958	1954	
10	HQAM	25	0	1952	1954	1955	20.7
10	HQAM	25	12	1956	1948	1945	
10	HQAM	25	25	1942	1947	1955	
10	HQAM	50	0	1953	1951	1951	
Channel							
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	2465	2466	2460	25.7
5	QPSK	1	24	2465	2460	2460	
5	QPSK	1	24	2484	2465	2464	
5	QPSK	12	0	2375	2373	2373	24.7
5	QPSK	12	12	2378	2380	2370	
5	QPSK	12	12	2370	2374	2372	
5	QPSK	25	0	2373	2371	2371	24.7
5	HQAM	1	0	2388	2389	2387	
5	HQAM	1	12	2401	2401	2389	
5	HQAM	1	24	2402	2401	2387	23.7
5	HQAM	12	0	2283	2278	2278	
5	HQAM	12	7	2278	2280	2274	
5	HQAM	12	12	2275	2275	2275	23.7
5	HQAM	25	0	2278	2271	2270	
5	HQAM	1	0	2288	2285	2288	
5	HQAM	1	24	2282	2283	2284	22.7
5	HQAM	1	24	2286	2288	2282	
5	HQAM	12	0	2188	2182	2182	
5	HQAM	12	7	2183	2183	2178	22.7
5	HQAM	12	12	2178	2180	2177	
5	HQAM	25	0	2178	2174	2174	
5	HQAM	1	0	1948	1948	1948	20.7
5	HQAM	1	12	1950	1949	1952	
5	HQAM	1	24	1942	1948	1950	
5	HQAM	12	7	1951	1948	1942	20.7
5	HQAM	12	12	1948	1937	1954	
5	HQAM	25	0	1953	1949	1948	
Channel							
Frequency (MHz)				706.5	706.5	710.5	
3	QPSK	1	0	2392	2388	2386	25.7
3	QPSK	1	8	2392	2395	2393	
3	QPSK	8	0	2389	2397	2394	
3	QPSK	8	4	2288	2280	2287	24.7
3	QPSK	8	4	2284	2287	2282	
3	QPSK	16	0	2286	2282	2282	
3	HQAM	1	0	2398	2389	2382	24.7
3	HQAM	1	8	2391	2391	2389	
3	HQAM	1	14	2318	2322	2319	
3	HQAM	8	4	2288	2281	2280	23.7
3	HQAM	8	4	2289	2288	2284	
3	HQAM	8	7	2280	2286	2188	
3	HQAM	16	0	2281	2281	2184	23.7
3	HQAM	1	0	2221	2214	2214	
3	HQAM	1	8	2224	2223	2220	
3	HQAM	8	0	2183	2183	2086	22.7
3	HQAM	8	4	2188	2187	2184	
3	HQAM	8	7	2089	2182	2089	
3	HQAM	16	0	2180	2085	2083	20.7
3	HQAM	1	0	1948	1948	1943	
3	HQAM	1	8	1958	1950	1948	
3	HQAM	8	4	1953	1948	1939	20.7
3	HQAM	8	7	1945	1937	1953	
3	HQAM	16	0	1951	1944	1942	
Channel							
Frequency (MHz)				707.7	707.5	712.3	
1.4	QPSK	1	0	2378	2374	2373	25.7
1.4	QPSK	1	3	2378	2380	2380	
1.4	QPSK	1	5	2372	2373	2371	
1.4	QPSK	3	0	2380	2378	2377	24.7
1.4	QPSK	3	1	2384	2378	2379	
1.4	QPSK	3	3	2374	2378	2374	
1.4	QPSK	6	0	2283	2284	2281	24.7
1.4	HQAM	1	0	2388	2387	2388	
1.4	HQAM	1	5	2388	2385	2383	
1.4	HQAM	3	0	2289	2284	2288	23.7
1.4	HQAM	3	1	2284	2286	2280	
1.4	HQAM	3	1	2284	2283	2282	
1.4	HQAM	6	0	2188	2180	2188	23.7
1.4	HQAM	1	0	2201	2188	2189	
1.4	HQAM	1	3	2286	2289	2283	
1.4	HQAM	1	6	2283	2282	2187	23.7
1.4	HQAM	3	0	2188	2184	2188	
1.4	HQAM	3	1	2282	2187	2280	
1.4	HQAM	3	1	2282	2187	2280	22.7
1.4	HQAM	6	0	2188	2186	2083	
1.4	HQAM	6	0	2089	2088	2083	
1.4	HQAM	1	0	1938	1948	1942	20.7
1.4	HQAM	1	8	1947	1954	1956	
1.4	HQAM	1	8	1958	1957	1958	
1.4	HQAM	3	0	1942	1945	1951	20.7
1.4	HQAM	3	1	1958	1941	1938	
1.4	HQAM	3	1	1939	1944	1952	
1.4	HQAM	6	0	1947	1948	1950	20.7



Band 13_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.98	782		
10	QPSK	1	25	24.02			25.2
10	QPSK	1	49	24.10			
10	QPSK	25	0	23.16			
10	QPSK	25	12	23.17			24.2
10	QPSK	25	25	23.19			
10	QPSK	50	0	23.18			
10	HQAM	1	0	23.38			
10	HQAM	1	25	23.37			24.2
10	HQAM	1	49	23.40			
10	HQAM	25	0	22.17			
10	HQAM	25	12	22.20			23.2
10	HQAM	25	25	22.22			
10	HQAM	50	0	22.19			
10	HQAM	1	0	22.21			
10	HQAM	1	25	22.32			23.2
10	HQAM	1	49	22.34			
10	HQAM	25	0	21.17			
10	HQAM	25	12	21.24			22.2
10	HQAM	25	25	21.23			
10	HQAM	50	0	21.23			
10	256QAM	1	0	18.81			
10	256QAM	1	25	18.97			20.2
10	256QAM	1	49	18.91			
10	256QAM	25	0	18.78			
10	256QAM	25	12	18.86			20.2
10	256QAM	25	25	18.89			
10	256QAM	50	0	18.84			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.93	782	784.5	
5	QPSK	1	24	24.04	24.07	23.77	25.2
5	QPSK	1	24	24.07	24.08	23.83	
5	QPSK	12	0	23.10	23.13	22.85	
5	QPSK	12	6	23.18	23.15	22.93	24.2
5	QPSK	12	12	23.19	23.21	22.89	
5	QPSK	25	0	23.18	23.14	22.90	
5	HQAM	1	0	23.31	23.29	23.01	
5	HQAM	1	12	23.29	23.33	23.04	24.2
5	HQAM	1	24	23.37	23.38	23.04	
5	HQAM	12	0	22.20	22.17	21.92	
5	HQAM	12	7	22.20	22.17	21.92	23.2
5	HQAM	12	13	22.21	22.22	21.94	
5	HQAM	25	0	22.23	22.16	21.92	
5	HQAM	1	0	22.19	22.28	21.94	
5	HQAM	1	24	22.25	22.20	22.01	23.2
5	HQAM	1	24	22.29	22.32	22.02	
5	HQAM	12	0	21.22	21.23	20.96	
5	HQAM	12	7	21.28	21.21	20.98	22.2
5	HQAM	12	13	21.25	21.26	20.95	
5	HQAM	25	0	21.36	21.17	20.96	
5	256QAM	1	0	18.55	18.57	18.59	
5	256QAM	1	12	18.93	18.96	18.94	20.2
5	256QAM	1	24	18.86	18.99	18.96	
5	256QAM	12	7	18.77	18.69	18.74	
5	256QAM	12	7	18.83	18.78	18.79	20.2
5	256QAM	12	13	18.82	18.84	18.79	
5	256QAM	25	0	18.77	18.77	18.74	



Band 14_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq
Channel				790.5	790.5	790.5
Frequency (MHz)				790.5	790.5	790.5
10	QPSK	1	0	24.56	24.56	
10	QPSK	1	25	24.53	24.53	
10	QPSK	1	49	24.48	24.48	25.7
10	QPSK	25	0	23.55	23.55	
10	QPSK	25	12	23.57	23.57	
10	QPSK	25	25	23.63	23.63	24.7
10	QPSK	50	0	23.55	23.55	
10	HQAM	1	0	23.95	23.95	
10	HQAM	1	25	23.91	23.91	24.7
10	HQAM	1	49	23.86	23.86	
10	HQAM	25	0	22.54	22.54	
10	HQAM	25	12	22.57	22.57	
10	HQAM	25	25	22.64	22.64	23.7
10	HQAM	50	0	22.55	22.55	
10	HQAM	1	0	22.79	22.79	
10	HQAM	1	25	22.84	22.84	23.7
10	HQAM	1	49	22.79	22.79	
10	HQAM	25	0	21.58	21.58	
10	HQAM	25	12	21.61	21.61	
10	HQAM	25	25	21.63	21.63	22.7
10	HQAM	50	0	21.59	21.59	
10	256QAM	1	0	19.53	19.53	
10	256QAM	1	25	19.57	19.57	20.7
10	256QAM	1	49	19.55	19.55	
10	256QAM	25	0	19.29	19.29	
10	256QAM	25	12	19.34	19.34	
10	256QAM	25	25	19.33	19.33	20.7
10	256QAM	50	0	19.25	19.25	
Channel				2330.5	2330.5	2330.5
Frequency (MHz)				790.5	790.5	790.5
5	QPSK	1	0	24.48	24.48	24.45
5	QPSK	1	25	24.56	24.53	24.55
5	QPSK	1	24	24.55	24.55	24.48
5	QPSK	12	0	23.62	23.54	23.51
5	QPSK	12	12	23.68	23.68	23.60
5	QPSK	12	13	23.81	23.80	23.56
5	QPSK	25	0	23.59	23.54	23.52
5	HQAM	1	0	23.92	23.92	23.79
5	HQAM	1	12	23.90	23.92	23.86
5	HQAM	1	24	23.88	23.88	23.79
5	HQAM	12	0	22.84	22.81	22.83
5	HQAM	12	7	22.88	22.89	22.88
5	HQAM	12	13	22.85	22.83	22.84
5	HQAM	25	0	22.62	22.56	22.58
5	HQAM	1	0	22.81	22.77	22.77
5	HQAM	1	25	22.83	22.85	22.84
5	HQAM	1	24	22.82	22.82	22.80
5	HQAM	12	0	21.71	21.60	21.58
5	HQAM	12	7	21.69	21.70	21.68
5	HQAM	12	13	21.63	21.66	21.61
5	HQAM	25	0	21.65	21.61	21.54
5	256QAM	1	0	19.47	19.49	19.53
5	256QAM	1	12	19.31	19.33	19.28
5	256QAM	1	24	19.46	19.45	19.42
5	256QAM	12	0	19.19	19.27	19.27
5	256QAM	12	7	19.28	19.28	19.34
5	256QAM	12	13	19.33	19.35	19.33
5	256QAM	25	0	19.21	19.19	19.15



Band 17_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (ms)
Channel				700	710	711	
Frequency (MHz)				700	710	711	
10	QPSK	1	0	2458	2458	2458	25.7
10	QPSK	1	25	2458	2464	2460	
10	QPSK	1	49	2462	2466	2462	
10	QPSK	25	0	2384	2384	2384	24.7
10	QPSK	25	12	2378	2373	2371	
10	QPSK	25	25	2380	2379	2380	
10	HQAM	1	0	2390	2390	2390	24.7
10	HQAM	1	25	2401	2401	2400	
10	HQAM	25	0	2401	2402	2402	
10	HQAM	25	0	2265	2264	2264	23.7
10	HQAM	25	12	2278	2271	2271	
10	HQAM	25	25	2277	2281	2278	
10	HQAM	50	0	2269	2270	2267	23.7
10	HQAM	1	25	2252	2257	2250	
10	HQAM	1	49	2252	2258	2263	
10	HQAM	25	0	2167	2167	2167	22.7
10	HQAM	25	12	2184	2178	2178	
10	HQAM	25	25	2180	2182	2182	
10	HQAM	50	0	2170	2171	2171	20.7
10	256QAM	1	0	1944	1937	1933	
10	256QAM	1	25	1950	1948	1951	
10	256QAM	25	0	1946	1944	1946	20.7
10	256QAM	25	12	1958	1952	1943	
10	256QAM	25	25	1958	1954	1952	
10	256QAM	50	0	1948	1948	1948	
Channel				700.5	710	711.5	
Frequency (MHz)				700.5	710	711.5	
5	QPSK	1	0	2457	2458	2455	25.7
5	QPSK	1	12	2460	2461	2463	
5	QPSK	1	24	2464	2461	2464	
5	QPSK	12	0	2387	2389	2388	24.7
5	QPSK	12	12	2378	2374	2380	
5	QPSK	12	13	2377	2378	2373	
5	HQAM	1	0	2376	2376	2366	24.7
5	HQAM	1	12	2391	2383	2391	
5	HQAM	1	24	2408	2404	2401	
5	HQAM	12	0	2270	2272	2272	23.7
5	HQAM	12	7	2278	2274	2273	
5	HQAM	12	13	2278	2277	2274	
5	HQAM	25	0	2274	2275	2269	23.7
5	HQAM	1	0	2289	2287	2288	
5	HQAM	1	12	2290	2286	2290	
5	HQAM	1	24	2294	2290	2293	22.7
5	HQAM	12	0	2173	2177	2178	
5	HQAM	12	7	2181	2179	2173	
5	HQAM	12	13	2179	2185	2175	20.7
5	HQAM	25	0	2179	2174	2170	
5	256QAM	1	0	1941	1929	1924	
5	256QAM	1	12	1949	1948	1944	20.7
5	256QAM	1	24	1944	1950	1940	
5	256QAM	12	7	1958	1947	1940	
5	256QAM	12	13	1953	1954	1952	20.7
5	256QAM	25	0	1937	1941	1945	



Band 26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up time (min)		
Channel									
Frequency (MHz)									
831.6 831.5 831.5									
15	QPSK	1	0	2458	2449	2449	25.7		
15	QPSK	39	0	2449	2448	2448			
15	QPSK	1	74	2449	2448	2438	25.7		
15	QPSK	39	0	2384	2385	2381			
15	QPSK	39	20	2389	2387	2357	24.7		
15	QPSK	39	39	2354	2363	2359			
15	QPSK	75	0	2377	2368	2358	24.7		
15	HQAM	1	0	2388	2377	2380			
15	HQAM	1	37	2379	2378	2378	24.7		
15	HQAM	74	0	2377	2371	2366			
15	HQAM	39	0	2263	2252	2259	23.7		
15	HQAM	39	20	2265	2265	2255			
15	HQAM	39	39	2265	2262	2256	23.7		
15	HQAM	75	0	2258	2255	2281			
15	HQAM	1	0	2175	2187	2183	23.7		
15	HQAM	1	37	2271	2274	2258			
15	HQAM	1	74	2272	2268	2293	22.7		
15	HQAM	39	0	2184	2184	2184			
15	HQAM	39	20	2188	2188	2181	22.7		
15	HQAM	39	39	2187	2184	2183			
15	HQAM	75	0	2170	2187	2159	20.7		
15	HQAM	1	0	1949	1943	1944			
15	HQAM	1	37	1945	1937	1946	20.7		
15	HQAM	74	0	1937	1936	1936			
15	HQAM	39	0	1939	1940	1938	20.7		
15	HQAM	39	20	1944	1945	1938			
15	HQAM	39	39	1931	1932	1931	20.7		
15	HQAM	75	0	1941	1943	1934			
Channel									
Frequency (MHz)									
831.6 831.5 831.5									
10	QPSK	1	0	2454	2452	2449	25.7		
10	QPSK	1	26	2453	2452	2449			
10	QPSK	1	49	2453	2454	2442	24.7		
10	QPSK	26	0	2368	2357	2357			
10	QPSK	26	0	2368	2359	2358	24.7		
10	QPSK	26	26	2383	2389	2387			
10	QPSK	50	0	2365	2366	2354	24.7		
10	HQAM	1	0	2399	2387	2388			
10	HQAM	1	26	2389	2390	2388	23.7		
10	HQAM	1	49	2389	2384	2375			
10	HQAM	25	0	2270	2259	2256	23.7		
10	HQAM	25	10	2259	2259	2254			
10	HQAM	25	26	2261	2261	2256	23.7		
10	HQAM	50	0	2265	2264	2258			
10	HQAM	1	0	2292	2278	2274	23.7		
10	HQAM	1	26	2288	2288	2278			
10	HQAM	1	49	2281	2280	2268	22.7		
10	HQAM	25	0	2181	2180	2182			
10	HQAM	25	10	2170	2183	2182	22.7		
10	HQAM	25	26	2181	2181	2134			
10	HQAM	50	0	2151	2182	2155	20.7		
10	HQAM	1	0	1942	1942	1941			
10	HQAM	1	26	1943	1928	1943	20.7		
10	HQAM	1	49	1943	1943	1938			
10	HQAM	25	0	1932	1934	1937	20.7		
10	HQAM	25	10	1938	1942	1938			
10	HQAM	25	26	1938	1935	1934	20.7		
10	HQAM	50	0	1933	1933	1930			
Channel									
Frequency (MHz)									
2676 2686 2705									
5	QPSK	1	0	2450	2450	2455	25.7		
5	QPSK	1	10	2453	2455	2454			
5	QPSK	1	24	2455	2456	2442	24.7		
5	QPSK	12	0	2372	2381	2381			
5	QPSK	12	7	2369	2354	2358	24.7		
5	QPSK	12	14	2364	2360	2351			
5	QPSK	26	0	2368	2362	2357	24.7		
5	HQAM	1	0	2401	2391	2389			
5	HQAM	1	10	2398	2396	2378	23.7		
5	HQAM	1	24	2386	2393	2374			
5	HQAM	1	1	2278	2263	2264	23.7		
5	HQAM	12	0	2273	2268	2259			
5	HQAM	12	13	2265	2261	2252	23.7		
5	HQAM	26	0	2265	2262	2254			
5	HQAM	1	0	2258	2284	2281	23.7		
5	HQAM	1	10	2272	2284	2284			
5	HQAM	1	24	2280	2286	2211	22.7		
5	HQAM	12	0	2155	2187	2158			
5	HQAM	12	7	2182	2171	2121	22.7		
5	HQAM	12	13	2168	2164	2034			
5	HQAM	26	0	2152	2188	2122	20.7		
5	HQAM	1	0	1940	1936	1936			
5	HQAM	1	10	1942	1938	1944	20.7		
5	HQAM	1	24	1948	1948	1927			
5	HQAM	12	0	1931	1930	1932	20.7		
5	HQAM	12	7	1940	1940	1931			
5	HQAM	12	13	1928	1928	1930	20.7		
5	HQAM	26	0	1941	1933	1928			
Channel									
Frequency (MHz)									
814.7 831.5 846.3									
1.4	QPSK	1	0	2447	2443	2446	25.7		
1.4	QPSK	1	0	2451	2448	2445			
1.4	QPSK	1	0	2449	2450	2432	25.7		
1.4	QPSK	3	0	2446	2448	2447			
1.4	QPSK	1	0	2448	2450	2453	24.7		
1.4	QPSK	3	3	2446	2448	2432			
1.4	QPSK	8	0	2372	2354	2356	24.7		
1.4	HQAM	1	0	2365	2364	2348			
1.4	HQAM	1	3	2360	2359	2341	24.7		
1.4	HQAM	3	0	2366	2360	2354			
1.4	HQAM	3	0	2364	2365	2350	24.7		
1.4	HQAM	3	1	2387	2388	2377			
1.4	HQAM	3	0	2377	2360	2360	23.7		
1.4	HQAM	6	0	2277	2281	2280			
1.4	HQAM	1	0	2286	2284	2259	23.7		
1.4	HQAM	3	0	2265	2261	2243			
1.4	HQAM	1	0	2269	2259	2254	23.7		
1.4	HQAM	3	0	2261	2275	2279			
1.4	HQAM	6	0	2262	2260	2244	23.7		
1.4	HQAM	3	3	2260	2286	2269			
1.4	HQAM	6	0	2147	2187	2156	20.7		
1.4	HQAM	1	0	1944	1937	1936			
1.4	HQAM	1	3	1938	1934	1942	20.7		
1.4	HQAM	3	0	1935	1940	1938			
1.4	HQAM	3	1	1939	1938	1934	20.7		
1.4	HQAM	3	0	1931	1927	1928			
1.4	HQAM	6	0	1933	1933	1936	20.7		



Band 30_Ant 2						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	2315		
10	QPSK	1	25	2309		
10	QPSK	1	49	2302		
10	QPSK	25	0	2208		
10	QPSK	25	12	2216		
10	QPSK	25	25	2218		
10	QPSK	50	0	2214		
10	HQAM	1	0	2244		
10	HQAM	1	25	2248		
10	HQAM	1	49	2241		
10	HQAM	25	0	2108		
10	HQAM	25	12	2114		
10	HQAM	25	25	2117		
10	HQAM	50	0	2114		
10	HQAM	1	0	2109		
10	HQAM	1	25	2109		
10	HQAM	1	49	2127		
10	HQAM	25	0	2012		
10	HQAM	25	12	2020		
10	HQAM	25	25	2020		
10	HQAM	50	0	2018		
10	256QAM	1	0	1880		
10	256QAM	1	25	1894		
10	256QAM	1	49	1891		
10	256QAM	25	0	1878		
10	256QAM	25	12	1873		
10	256QAM	25	25	1875		
10	256QAM	50	0	1877		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2307.5	2310	2312.5
5	QPSK	1	0	2297	2301	2305
5	QPSK	1	12	2314	2314	2312
5	QPSK	1	24	2313	2313	2308
5	QPSK	12	0	2210	2212	2216
5	QPSK	12	12	2223	2217	2221
5	QPSK	12	12	2222	2217	2219
5	QPSK	25	0	2218	2214	2219
5	HQAM	1	0	2232	2234	2239
5	HQAM	1	12	2242	2240	2238
5	HQAM	1	24	2244	2240	2238
5	HQAM	12	0	2115	2114	2119
5	HQAM	12	7	2124	2120	2122
5	HQAM	12	13	2125	2116	2122
5	HQAM	25	0	2121	2116	2120
5	HQAM	1	0	2128	2132	2134
5	HQAM	1	12	2132	2136	2133
5	HQAM	1	24	2138	2138	2131
5	HQAM	12	0	2017	2021	2020
5	HQAM	12	7	2020	2023	2028
5	HQAM	12	13	2030	2025	2024
5	HQAM	25	0	2025	2017	2020
5	HQAM	1	0	1875	1879	1877
5	256QAM	1	12	1887	1890	1885
5	256QAM	1	24	1896	1890	1887
5	256QAM	12	7	1883	1872	1884
5	256QAM	12	13	1885	1875	1871
5	256QAM	25	0	1875	1872	1870



Band 71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dB)		
Channel				693	693	693			
Frequency (MHz)				693	693	693			
20	QPSK	1	0	2455	2457	2459			
20	QPSK	1	49	2458	2453	2451			25.7
20	QPSK	1	99	2451	2453	2450			
20	QPSK	61	0	2396	2396	2398			
20	QPSK	50	24	2371	2361	2361			24.7
20	QPSK	50	50	2370	2364	2363			
20	QPSK	100	0	2370	2360	2358			
20	HQAM	1	0	2402	2392	2382			
20	HQAM	1	49	2392	2389	2385			24.7
20	HQAM	1	99	2389	2386	2385			
20	HQAM	50	0	2270	2268	2267			
20	HQAM	50	24	2273	2265	2261			
20	HQAM	50	50	2270	2268	2264			23.7
20	HQAM	100	0	2270	2262	2259			
20	HQAM	1	0	2284	2275	2274			
20	HQAM	1	49	2281	2269	2271			23.7
20	HQAM	1	99	2278	2277	2276			
20	HQAM	50	0	2158	2167	2161			
20	HQAM	50	24	2173	2165	2165			
20	HQAM	50	50	2171	2166	2165			22.7
20	HQAM	100	0	2174	2162	2162			
20	SSBQAM	1	0	1958	1950	1937			
20	SSBQAM	1	49	1941	1936	1939			20.7
20	SSBQAM	1	99	1945	1935	1935			
20	SSBQAM	50	0	1941	1947	1944			
20	SSBQAM	50	24	1945	1944	1938			
20	SSBQAM	50	50	1940	1938	1939			20.7
20	SSBQAM	100	0	1943	1943	1932			
Channel				693	693	693			Turn-up (dB)
Frequency (MHz)				693	693	693			
15	QPSK	1	0	2464	2457	2453			
15	QPSK	1	49	2456	2453	2452			25.7
15	QPSK	1	74	2453	2458	2453			
15	QPSK	39	0	2388	2364	2360			
15	QPSK	39	26	2371	2368	2369			24.7
15	QPSK	39	39	2384	2383	2381			
15	QPSK	75	0	2372	2369	2366			
15	HQAM	1	0	2401	2393	2394			
15	HQAM	1	37	2384	2390	2388			24.7
15	HQAM	1	74	2382	2382	2384			
15	HQAM	39	0	2288	2284	2282			
15	HQAM	39	26	2271	2269	2268			23.7
15	HQAM	39	39	2284	2282	2283			
15	HQAM	75	0	2273	2269	2267			
15	HQAM	1	0	2247	2279	2275			
15	HQAM	1	49	2263	2278	2278			23.7
15	HQAM	1	74	2275	2283	2277			
15	HQAM	39	0	2148	2160	2163			
15	HQAM	39	26	2152	2171	2171			22.7
15	HQAM	39	39	2168	2185	2185			
15	HQAM	75	0	2170	2170	2168			
15	SSBQAM	1	0	1949	1952	1937			
15	SSBQAM	1	37	1933	1928	1932			20.7
15	SSBQAM	1	74	1946	1946	1936			
15	SSBQAM	39	0	1935	1941	1937			
15	SSBQAM	39	26	1932	1943	1930			20.7
15	SSBQAM	39	39	1938	1938	1935			
15	SSBQAM	75	0	1938	1938	1931			
Channel				19312	19322	19342			Turn-up (dB)
Frequency (MHz)				693	693	693			
10	QPSK	1	0	2452	2457	2449			
10	QPSK	1	25	2455	2445	2450			25.7
10	QPSK	1	49	2452	2451	2445			
10	QPSK	25	0	2372	2358	2353			
10	QPSK	25	12	2371	2358	2359			24.7
10	QPSK	25	25	2366	2362	2361			
10	QPSK	50	0	2371	2365	2356			
10	HQAM	1	0	2405	2391	2384			
10	HQAM	1	25	2392	2386	2389			24.7
10	HQAM	1	49	2388	2390	2383			
10	HQAM	25	0	2272	2266	2264			
10	HQAM	25	12	2271	2267	2264			23.7
10	HQAM	25	25	2264	2260	2261			
10	HQAM	50	0	2271	2263	2264			
10	HQAM	1	0	2254	2278	2273			
10	HQAM	1	25	2258	2270	2260			23.7
10	HQAM	1	49	2266	2281	2271			
10	HQAM	25	0	2132	2159	2165			
10	HQAM	25	12	2133	2160	2162			22.7
10	HQAM	25	25	2128	2165	2164			
10	HQAM	50	0	2141	2168	2157			
10	SSBQAM	1	0	1955	1957	1936			
10	SSBQAM	1	25	1938	1928	1934			20.7
10	SSBQAM	1	49	1937	1945	1935			
10	SSBQAM	25	0	1934	1942	1937			
10	SSBQAM	25	12	1932	1935	1932			20.7
10	SSBQAM	25	25	1940	1928	1928			
10	SSBQAM	50	0	1938	1933	1922			
Channel				19347	19347	19347			Turn-up (dB)
Frequency (MHz)				693.5	693.5	693.5			
5	QPSK	1	0	2463	2457	2455			
5	QPSK	1	12	2461	2454	2456			25.7
5	QPSK	1	24	2458	2454	2447			
5	QPSK	19	0	2379	2363	2364			
5	QPSK	12	7	2373	2364	2370			24.7
5	QPSK	12	19	2368	2360	2361			
5	QPSK	24	0	2370	2364	2359			
5	HQAM	1	0	2402	2392	2389			
5	HQAM	1	12	2395	2390	2386			24.7
5	HQAM	1	24	2389	2388	2383			
5	HQAM	12	0	2282	2268	2268			
5	HQAM	12	12	2276	2268	2270			23.7
5	HQAM	12	19	2289	2261	2261			
5	HQAM	25	0	2273	2265	2262			
5	HQAM	1	0	2223	2260	2279			
5	HQAM	1	12	2248	2285	2281			23.7
5	HQAM	11	24	2247	2283	2278			
5	HQAM	19	0	2168	2164	2160			
5	HQAM	25	0	2131	2167	2162			22.7
5	SSBQAM	1	0	1955	1952	1931			
5	SSBQAM	12	0	1937	1928	1936			20.7
5	SSBQAM	1	24	1938	1947	1935			
5	SSBQAM	12	0	1935	1945	1934			20.7
5	SSBQAM	19	0	1937	1938	1932			
5	SSBQAM	12	12	1936	1936	1920			20.7
5	SSBQAM	22	0	1937	1935	1931			



Band 5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Turn-up (dBm)		
Channel									
Frequency (MHz)									
ISD									
10	QPSK	1	0	2347	2347	2348	25		
10	QPSK	1	25	2351	2356	2353			
10	QPSK	1	49	2358	2353	2345			
10	QPSK	25	0	2263	2266	2263			
10	QPSK	25	12	2272	2267	2262	24		
10	QPSK	25	25	2288	2276	2284			
10	QPSK	50	0	2272	2266	2259			
10	QPSK	1	0	2291	2292	2297			
10	HQAM	1	25	2292	2298	2292	24		
10	HQAM	1	49	2298	2293	2283			
10	HQAM	25	0	2159	2165	2158			
10	HQAM	25	12	2171	2167	2163	23		
10	HQAM	25	25	2168	2171	2162			
10	HQAM	50	0	2170	2184	2182			
10	HQAM	1	0	2174	2171	2181			
10	HQAM	1	25	2158	2150	2175	23		
10	HQAM	1	49	2187	2183	2177			
10	HQAM	25	0	2066	2065	2066			
10	HQAM	25	12	2077	2072	2067	22		
10	HQAM	25	25	2071	2074	2065			
10	HQAM	50	0	2073	2069	2069			
10	256QAM	1	0	1848	1853	1858			
10	256QAM	1	25	1853	1850	1851	20		
10	256QAM	1	49	1850	1853	1854			
10	256QAM	25	0	1847	1848	1845			
10	256QAM	25	12	1848	1842	1839	20		
10	256QAM	25	25	1838	1848	1848			
10	256QAM	50	0	1851	1849	1844			
Channel									
Frequency (MHz)									
ISD									
5	QPSK	1	0	2361	2362	2360	25		
5	QPSK	1	25	2366	2363	2362			
5	QPSK	1	24	2357	2359	2353			
5	QPSK	12	0	2263	2273	2265			
5	QPSK	12	0	2270	2274	2268	24		
5	QPSK	12	12	2285	2287	2287			
5	QPSK	25	0	2268	2272	2258			
5	HQAM	1	0	2294	2291	2293	24		
5	HQAM	1	12	2292	2299	2284			
5	HQAM	1	24	2294	2298	2290			
5	HQAM	12	0	2187	2175	2187	23		
5	HQAM	12	7	2171	2177	2181			
5	HQAM	12	13	2166	2169	2156			
5	HQAM	25	0	2172	2174	2160			
5	HQAM	1	0	2188	2195	2186			
5	HQAM	1	25	2183	2190	2178	23		
5	HQAM	1	24	2188	2191	2199			
5	HQAM	12	0	2074	2080	2055			
5	HQAM	12	7	2078	2081	2059	22		
5	HQAM	12	13	2071	2075	2028			
5	HQAM	25	0	2073	2076	2033			
5	256QAM	1	0	1838	1838	1838	20		
5	256QAM	1	12	1859	1840	1853			
5	256QAM	1	24	1848	1848	1848			
5	256QAM	12	0	1840	1844	1840	20		
5	256QAM	12	7	1844	1837	1836			
5	256QAM	12	13	1835	1836	1846			
5	256QAM	25	0	1843	1845	1838			
Channel									
Frequency (MHz)									
ISD									
3	QPSK	1	0	2339	2347	2351	25		
3	QPSK	1	8	2349	2353	2348			
3	QPSK	8	0	2351	2351	2345			
3	QPSK	8	0	2285	2288	2288	24		
3	QPSK	8	4	2288	2288	2284			
3	QPSK	8	0	2283	2285	2288			
3	QPSK	16	0	2262	2260	2250			
3	HQAM	1	0	2291	2292	2290	24		
3	HQAM	1	8	2287	2297	2286			
3	HQAM	1	14	2294	2290	2273			
3	HQAM	8	4	2166	2169	2167	23		
3	HQAM	8	4	2184	2162	2163			
3	HQAM	8	7	2161	2166	2157			
3	HQAM	16	0	2166	2164	2152			
3	HQAM	1	0	2185	2187	2174	23		
3	HQAM	1	8	2178	2183	2169			
3	HQAM	1	14	2181	2179	2166			
3	HQAM	8	0	2081	2080	2081	22		
3	HQAM	8	4	2078	2072	2089			
3	HQAM	8	7	2083	2072	2041			
3	HQAM	16	0	2065	2059	2059			
3	256QAM	1	0	1846	1847	1849	20		
3	256QAM	1	8	1843	1847	1851			
3	256QAM	1	14	1845	1863	1845			
3	256QAM	8	0	1836	1844	1836	20		
3	256QAM	8	4	1846	1837	1836			
3	256QAM	8	7	1834	1842	1843			
3	256QAM	16	0	1848	1844	1835			
Channel									
Frequency (MHz)									
ISD									
1.4	QPSK	1	0	2345	2352	2343	25		
1.4	QPSK	1	3	2354	2358	2348			
1.4	QPSK	1	5	2347	2351	2339			
1.4	QPSK	3	0	2353	2352	2347			
1.4	QPSK	3	1	2357	2352	2350			
1.4	QPSK	3	3	2353	2357	2348	24		
1.4	QPSK	6	0	2268	2264	2251			
1.4	HQAM	1	0	2279	2284	2278	24		
1.4	HQAM	1	5	2286	2284	2277			
1.4	HQAM	1	5	2282	2288	2272			
1.4	HQAM	3	0	2283	2284	2284			
1.4	HQAM	3	1	2286	2275	2280			
1.4	HQAM	3	1	2281	2283	2249			
1.4	HQAM	6	0	2184	2171	2158	23		
1.4	HQAM	1	0	2174	2175	2139			
1.4	HQAM	1	3	2184	2181	2144			
1.4	HQAM	1	6	2178	2182	2139	23		
1.4	HQAM	3	0	2178	2174	2132			
1.4	HQAM	3	1	2178	2184	2144			
1.4	HQAM	6	0	2173	2175	2147			
1.4	HQAM	6	0	2059	2060	2030	22		
1.4	256QAM	1	0	1846	1860	1851			
1.4	256QAM	1	3	1846	1847	1851	20		
1.4	256QAM	1	5	1842	1853	1854			
1.4	256QAM	3	0	1845	1847	1841			
1.4	256QAM	3	1	1839	1832	1838			
1.4	256QAM	3	1	1834	1839	1841			
1.4	256QAM	6	0	1851	1840	1842	20		



Band 7_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)		
Channel				2560	2608	2656			
Frequency (MHz)				2560	2608	2656			
20	QPSK	1	0	23.87	23.84	23.99	25.5		
20	QPSK	1	49	23.93	23.99	23.94			
20	QPSK	1	99	23.99	24.08	24.02			
20	QPSK	64	0	22.07	22.02	22.02	24.5		
20	QPSK	50	24	23.10	23.09	23.08			
20	QPSK	50	50	23.11	23.16	23.13			
20	QPSK	100	0	22.07	22.07	22.05	24.5		
20	HQAM	1	0	23.27	23.30	23.29			
20	HQAM	1	49	23.29	23.38	23.38			
20	HQAM	1	99	23.33	23.40	23.34			
20	HQAM	50	0	21.08	22.04	22.02	23.5		
20	HQAM	50	24	22.10	22.10	22.08			
20	HQAM	50	50	22.13	22.17	22.14			
20	HQAM	100	0	22.08	22.07	22.03	23.5		
20	HQAM	1	49	22.10	22.26	22.21			
20	HQAM	1	99	22.24	22.32	22.27			
20	HQAM	50	0	21.08	21.08	21.05	22.5		
20	HQAM	50	24	21.12	21.11	21.08			
20	HQAM	50	50	21.15	21.21	21.15			
20	HQAM	100	0	21.12	21.05	21.07	20.5		
20	SSBQAM	1	0	19.20	19.27	19.13			
20	SSBQAM	1	49	19.20	19.16	19.22			
20	SSBQAM	1	99	19.12	19.17	19.11			
20	SSBQAM	50	0	19.12	19.12	19.07	20.5		
20	SSBQAM	50	24	19.22	19.14	19.10			
20	SSBQAM	50	50	19.17	19.16	19.13			
20	SSBQAM	100	0	19.23	19.11	19.05	19.5		
15	QPSK	1	0	23.83	23.84	23.95		25.5	
15	QPSK	1	49	23.86	23.90	23.82			
15	QPSK	1	74	23.97	24.04	23.94			
15	QPSK	39	0	22.95	22.98	23.00	24.5		
15	QPSK	39	26	23.08	23.04	23.04			
15	QPSK	39	39	23.08	23.13	23.09			
15	QPSK	75	0	23.02	23.01	23.01	24.5		
15	HQAM	1	0	23.23	23.30	23.29			
15	HQAM	1	37	23.24	23.38	23.30			
15	HQAM	1	74	23.31	23.34	23.24	23.5		
15	HQAM	39	0	21.88	22.04	22.01			
15	HQAM	39	26	22.10	22.02	21.97			
15	HQAM	39	39	22.10	22.09	22.14	23.5		
15	HQAM	75	0	21.98	22.05	21.94			
15	HQAM	1	0	22.07	22.08	22.08	23.5		
15	HQAM	1	74	22.14	22.25	22.17			
15	HQAM	39	0	20.95	20.98	21.02	22.5		
15	HQAM	39	26	21.03	21.02	21.08			
15	HQAM	39	39	21.12	21.21	21.05			
15	HQAM	75	0	21.99	21.05	21.00	20.5		
15	SSBQAM	1	0	19.17	19.25	19.13			
15	SSBQAM	1	37	19.18	19.12	19.19			
15	SSBQAM	1	74	19.24	19.25	19.15	20.5		
15	SSBQAM	39	0	19.04	19.12	19.04			
15	SSBQAM	39	26	19.14	19.05	19.05			
15	SSBQAM	39	39	19.18	19.14	19.08	19.5		
15	SSBQAM	75	0	19.23	19.04	19.07			
10	QPSK	1	0	23.89	23.92	23.99	25.5		
10	QPSK	1	25	23.93	23.90	23.84			
10	QPSK	1	49	23.98	24.01	23.98			
10	QPSK	25	0	22.91	22.99	22.97	24.5		
10	QPSK	25	12	23.07	23.08	23.00			
10	QPSK	25	25	23.01	23.09	23.03			
10	QPSK	50	0	22.99	23.06	23.01	24.5		
10	HQAM	1	0	23.17	23.24	23.26			
10	HQAM	1	25	23.27	23.34	23.35			
10	HQAM	1	49	23.31	23.39	23.31	23.5		
10	HQAM	25	0	21.05	22.00	21.95			
10	HQAM	25	12	22.07	22.08	22.06			
10	HQAM	25	25	22.08	22.10	22.07	23.5		
10	HQAM	50	0	22.02	22.04	22.00			
10	HQAM	1	0	22.00	22.13	22.10	22.5		
10	HQAM	1	25	22.06	22.16	22.18			
10	HQAM	1	49	22.14	22.31	22.25			
10	HQAM	25	0	20.91	21.02	20.98	22.5		
10	HQAM	25	12	21.04	21.04	21.02			
10	HQAM	25	25	21.08	21.14	21.09			
10	HQAM	50	0	21.10	21.05	21.02	20.5		
10	SSBQAM	1	0	19.15	19.19	19.10			
10	SSBQAM	1	25	19.20	19.07	19.22			
10	SSBQAM	1	49	19.18	19.09	19.03	20.5		
10	SSBQAM	25	0	19.03	19.05	19.06			
10	SSBQAM	25	12	19.21	19.07	19.09			
10	SSBQAM	25	25	19.16	19.08	19.08	20.5		
10	SSBQAM	50	0	19.18	19.04	19.09			
5	QPSK	1	0	23.94	23.93	23.98	25.5		
5	QPSK	1	10	23.93	23.93	23.88			
5	QPSK	1	24	23.89	24.02	23.95			
5	QPSK	15	0	22.98	22.93	22.99	24.5		
5	QPSK	12	7	23.09	23.02	22.96			
5	QPSK	12	15	23.11	23.14	23.13			
5	QPSK	24	0	23.04	22.98	23.01	24.5		
5	HQAM	1	0	23.17	23.28	23.19			
5	HQAM	1	10	23.25	23.33	23.30			
5	HQAM	1	24	23.32	23.34	23.34	23.5		
5	HQAM	12	0	21.04	21.08	21.08			
5	HQAM	12	13	22.10	22.15	22.14	23.5		
5	HQAM	25	0	22.00	22.07	21.95			
5	HQAM	1	0	22.01	22.10	22.09	23.5		
5	HQAM	1	12	22.10	22.21	22.15			
5	HQAM	11	24	22.19	22.31	22.19			
5	HQAM	12	0	20.91	20.99	20.99	22.5		
5	HQAM	12	7	21.07	21.02	21.03			
5	HQAM	12	13	21.08	21.17	21.08			
5	HQAM	25	0	21.04	21.02	21.07	20.5		
5	SSBQAM	1	0	19.11	19.25	19.11			
5	SSBQAM	1	10	19.25	19.08	19.15			
5	SSBQAM	1	24	19.08	19.10	19.03	20.5		
5	SSBQAM	12	0	19.08	19.06	19.06			
5	SSBQAM	12	7	19.22	19.13	19.00			
5	SSBQAM	12	13	19.12	19.07	19.13	20.5		
5	SSBQAM	25	0	19.22	19.07	19.02			



Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
10	QPSK	1	0	2448	2458	2459			
10	QPSK	1	26	2439	2442	2440			25.7
10	QPSK	1	49	2450	2443	2448			
10	QPSK	26	0	2353	2354	2353			
10	QPSK	26	12	2380	2353	2353			24.7
10	QPSK	26	26	2358	2359	2360			
10	QPSK	50	0	2381	2353	2353			
10	HQAM	1	0	2382	2376	2378			24.7
10	HQAM	1	26	2381	2382	2380			
10	HQAM	1	49	2387	2386	2378			
10	HQAM	26	0	2254	2255	2253			
10	HQAM	26	12	2261	2255	2254			23.7
10	HQAM	26	26	2259	2260	2257			
10	HQAM	50	0	2260	2255	2252			
10	HQAM	50	12	2254	2254	2262			
10	HQAM	1	26	2271	2276	2274			23.7
10	HQAM	1	49	2273	2254	2239			
10	HQAM	26	0	2127	2136	2136			
10	HQAM	26	12	2149	2185	2158			22.7
10	HQAM	26	26	2183	2180	2181			
10	HQAM	50	0	2141	2155	2159			
10	256QAM	1	0	1947	1986	1947			20.7
10	256QAM	1	26	1953	1973	1949			
10	256QAM	1	49	1984	1955	1937			
10	256QAM	26	0	1944	1946	1940			
10	256QAM	26	12	1945	1946	1946			20.7
10	256QAM	26	26	1939	1941	1943			
10	256QAM	50	0	1951	1943	1941			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
5	QPSK	1	0	2448	2447	2439			
5	QPSK	1	26	2448	2448	2440			25.7
5	QPSK	1	24	2447	2449	2446			
5	QPSK	12	0	2362	2354	2355			
5	QPSK	12	4	2355	2358	2350			24.7
5	QPSK	12	13	2385	2384	2381			
5	QPSK	26	0	2358	2352	2352			
5	HQAM	1	0	2383	2383	2373			24.7
5	HQAM	1	12	2380	2379	2378			
5	HQAM	1	24	2382	2380	2376			
5	HQAM	12	0	2266	2262	2259			
5	HQAM	12	7	2258	2264	2254			23.7
5	HQAM	12	13	2265	2259	2254			
5	HQAM	26	0	2259	2253	2253			
5	HQAM	1	0	2224	2237	2286			
5	HQAM	1	0	2248	2274	2289			23.7
5	HQAM	1	24	2223	2273	2249			
5	HQAM	12	0	2135	2184	2180			
5	HQAM	12	7	2145	2187	2181			22.7
5	HQAM	12	13	2135	2180	2142			
5	HQAM	26	0	2111	2157	2150			
5	256QAM	1	0	1938	1936	1945			
5	256QAM	1	12	1950	1984	1939			20.7
5	256QAM	1	24	1947	1947	1954			
5	256QAM	12	0	1943	1938	1932			
5	256QAM	12	7	1938	1932	1945			20.7
5	256QAM	12	13	1938	1938	1934			
5	256QAM	26	0	1947	1933	1933			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
3	QPSK	1	0	2448	2437	2433			
3	QPSK	1	6	2434	2442	2436			25.7
3	QPSK	1	11	2443	2433	2436			
3	QPSK	6	0	2343	2354	2348			
3	QPSK	6	4	2352	2349	2351			24.7
3	QPSK	6	11	2349	2358	2351			
3	QPSK	16	0	2358	2351	2345			
3	HQAM	1	0	2376	2386	2370			24.7
3	HQAM	1	6	2376	2379	2372			
3	HQAM	1	14	2385	2383	2380			
3	HQAM	6	0	2252	2251	2249			
3	HQAM	6	4	2260	2245	2242			23.7
3	HQAM	6	7	2250	2250	2254			
3	HQAM	16	0	2267	2250	2245			
3	HQAM	1	0	2247	2255	2267			23.7
3	HQAM	1	6	2266	2272	2274			
3	HQAM	1	14	2266	2248	2233			
3	HQAM	6	0	2117	2131	2155			
3	HQAM	6	4	2140	2152	2159			22.7
3	HQAM	6	7	2147	2153	2153			
3	HQAM	16	0	2131	2149	2150			
3	256QAM	1	0	1944	1957	1941			
3	256QAM	1	6	1949	1958	1948			20.7
3	256QAM	1	14	1958	1954	1949			
3	256QAM	6	0	1943	1936	1930			
3	256QAM	6	4	1943	1939	1943			20.7
3	256QAM	6	7	1937	1941	1942			
3	256QAM	16	0	1943	1937	1939			
Channel									
Frequency (MHz)									
707.5 717.5 721.5									
1.4	QPSK	1	0	2444	2433	2436			
1.4	QPSK	1	3	2444	2442	2438			25.7
1.4	QPSK	1	5	2437	2436	2429			
1.4	QPSK	1	11	2442	2438	2437			
1.4	QPSK	3	1	2449	2442	2440			
1.4	QPSK	3	3	2443	2443	2437			24.7
1.4	QPSK	6	0	2350	2347	2343			
1.4	HQAM	1	0	2376	2387	2371			
1.4	HQAM	1	6	2376	2386	2377			24.7
1.4	HQAM	1	5	2370	2369	2363			
1.4	HQAM	3	0	2353	2347	2347			
1.4	HQAM	3	6	2366	2351	2350			
1.4	HQAM	3	1	2351	2350	2343			
1.4	HQAM	6	0	2257	2256	2249			23.7
1.4	HQAM	1	0	2234	2261	2237			
1.4	HQAM	1	3	2245	2272	2234			
1.4	HQAM	1	6	2247	2263	2220			23.7
1.4	HQAM	3	0	2228	2256	2239			
1.4	HQAM	3	1	2228	2261	2237			
1.4	HQAM	6	0	2123	2150	2123			22.7
1.4	256QAM	1	0	1938	1958	1939			
1.4	256QAM	1	6	1945	1971	1941			
1.4	256QAM	1	5	1951	1954	1953			20.7
1.4	256QAM	3	0	1943	1943	1936			
1.4	256QAM	3	6	1938	1942	1937			
1.4	256QAM	3	1	1939	1931	1938			
1.4	256QAM	6	0	1949	1937	1939			20.7



Band 13_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2153		
10	QPSK	1	25	2151		
10	QPSK	1	49	2157		
10	QPSK	25	0	2240		
10	QPSK	25	12	2241		
10	QPSK	25	25	2245		
10	QPSK	50	0	2251		
10	16QAM	1	0	2282		
10	16QAM	1	25	2286		
10	16QAM	1	49	2288		
10	16QAM	25	0	2151		
10	16QAM	25	12	2156		
10	16QAM	25	25	2160		
10	16QAM	50	0	2194		
10	16QAM	1	0	2190		
10	16QAM	1	25	2151		
10	16QAM	1	49	2178		
10	16QAM	25	0	2095		
10	16QAM	25	12	2089		
10	16QAM	25	25	2071		
10	16QAM	50	0	2068		
10	256QAM	1	0	1825		
10	256QAM	1	25	1850		
10	256QAM	1	49	1870		
10	256QAM	25	0	1841		
10	256QAM	25	12	1846		
10	256QAM	25	25	1859		
10	256QAM	50	0	1844		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2345	2348	2322
5	QPSK	1	24	2350	2354	2334
5	QPSK	1	24	2355	2356	2331
5	QPSK	12	0	2258	2259	2232
5	QPSK	12	12	2262	2263	2240
5	QPSK	12	12	2265	2267	2238
5	QPSK	25	0	2265	2263	2237
5	16QAM	1	0	2284	2278	2250
5	16QAM	1	12	2275	2282	2249
5	16QAM	1	24	2284	2288	2251
5	16QAM	12	0	2182	2184	2136
5	16QAM	12	7	2188	2184	2143
5	16QAM	12	13	2184	2171	2142
5	16QAM	25	0	2170	2163	2141
5	16QAM	1	0	2173	2168	2142
5	16QAM	1	24	2168	2181	2149
5	16QAM	1	24	2177	2181	2148
5	16QAM	12	0	2086	2070	2045
5	16QAM	12	7	2072	2087	2045
5	16QAM	12	13	2071	2075	2043
5	16QAM	25	0	2073	2086	2042
5	256QAM	1	0	1816	1824	1822
5	256QAM	1	12	1843	1845	1847
5	256QAM	1	24	1865	1867	1866
5	256QAM	12	0	1837	1835	1838
5	256QAM	12	7	1848	1836	1840
5	256QAM	12	13	1838	1835	1834
5	256QAM	25	0	1837	1834	1841



Band 14_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
700						
10	QPSK	1	0	23.68		
10	QPSK	1	25	23.60		
10	QPSK	1	49	23.58		
10	QPSK	25	0	22.63		
10	QPSK	25	12	22.65		
10	QPSK	25	25	22.74		
10	QPSK	50	0	22.97		
10	HQAM	1	0	23.92		
10	HQAM	1	25	22.90		
10	HQAM	1	49	22.97		
10	HQAM	25	0	21.85		
10	HQAM	25	12	21.88		
10	HQAM	25	25	21.73		
10	HQAM	50	0	21.88		
10	HQAM	1	0	21.90		
10	HQAM	1	25	21.95		
10	HQAM	1	49	21.90		
10	HQAM	25	0	20.87		
10	HQAM	25	12	20.89		
10	HQAM	25	25	20.76		
10	HQAM	50	0	20.87		
10	256QAM	1	0	18.45		
10	256QAM	1	25	18.50		
10	256QAM	1	49	18.54		
10	256QAM	25	0	18.50		
10	256QAM	25	12	18.44		
10	256QAM	25	25	18.47		
10	256QAM	50	0	18.50		
Channel						
Frequency (MHz)						
700.5						
700						
700.5						
5	QPSK	1	0	23.58	23.55	23.56
5	QPSK	1	25	23.63	23.66	23.64
5	QPSK	1	49	23.65	23.64	23.56
5	QPSK	12	0	22.71	22.65	22.84
5	QPSK	12	12	22.76	22.73	22.70
5	QPSK	12	13	22.71	22.73	22.88
5	QPSK	25	0	22.89	22.86	22.83
5	HQAM	1	0	22.91	22.92	22.97
5	HQAM	1	12	23.00	23.02	22.98
5	HQAM	1	24	22.98	23.00	22.90
5	HQAM	12	0	21.73	21.68	21.64
5	HQAM	12	7	21.77	21.77	21.78
5	HQAM	12	13	21.73	21.72	21.86
5	HQAM	25	0	21.71	21.68	21.64
5	HQAM	1	0	21.87	21.89	21.85
5	HQAM	1	25	21.93	22.00	21.94
5	HQAM	1	24	21.90	21.95	21.92
5	HQAM	12	0	20.80	20.71	20.89
5	HQAM	12	7	20.78	20.83	20.75
5	HQAM	12	13	20.75	20.76	20.89
5	HQAM	25	0	20.72	20.87	20.89
5	256QAM	1	0	18.38	18.37	18.42
5	256QAM	1	12	18.55	18.48	18.55
5	256QAM	1	24	18.74	18.72	18.65
5	256QAM	12	7	18.38	18.34	18.35
5	256QAM	12	13	18.47	18.46	18.30
5	256QAM	25	0	18.40	18.47	18.44



Band 17_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power			Time-up (min)
				Low Ch. Freq.	Mid Ch. Freq.	High Ch. Freq.	
Channel				700	710	711	
Frequency (MHz)				700	710	711	
10	QPSK	1	0	2335	2331	2332	25
10	QPSK	1	24	2338	2337	2337	
10	QPSK	1	48	2337	2345	2338	
10	QPSK	25	0	2238	2230	2241	24
10	QPSK	25	12	2232	2250	2248	
10	QPSK	25	25	2239	2237	2235	
10	QPSK	50	0	2247	2248	2245	24
10	16QAM	1	0	2270	2288	2289	
10	16QAM	1	25	2275	2278	2274	
10	16QAM	1	49	2278	2280	2277	23
10	16QAM	25	0	2141	2141	2141	
10	16QAM	25	12	2155	2148	2147	
10	16QAM	25	25	2157	2154	2151	23
10	16QAM	50	0	2144	2148	2142	
10	16QAM	1	0	2155	2154	2150	
10	16QAM	1	25	2157	2159	2158	22
10	16QAM	1	49	2153	2160	2148	
10	16QAM	25	0	2043	2043	2044	
10	16QAM	25	12	2039	2051	2051	20
10	16QAM	25	25	2039	2038	2038	
10	16QAM	50	0	2049	2047	2045	
10	256QAM	1	0	1834	1839	1822	20
10	256QAM	1	25	1843	1840	1841	
10	256QAM	1	49	1854	1847	1838	
10	256QAM	25	0	1831	1827	1830	20
10	256QAM	25	12	1830	1846	1834	
10	256QAM	25	25	1840	1837	1839	
10	256QAM	50	0	1827	1840	1831	
Channel				700.5	710	711.5	
Frequency (MHz)				700.5	710	711.5	
5	QPSK	1	0	2333	2328	2327	25
5	QPSK	1	24	2343	2342	2330	
5	QPSK	1	24	2343	2344	2340	
5	QPSK	12	0	2244	2246	2241	24
5	QPSK	12	12	2251	2248	2243	
5	QPSK	12	12	2253	2252	2245	
5	QPSK	25	0	2249	2247	2242	24
5	16QAM	1	0	2265	2267	2266	
5	16QAM	1	12	2274	2278	2270	
5	16QAM	1	24	2278	2278	2275	23
5	16QAM	12	0	2148	2147	2146	
5	16QAM	12	7	2153	2152	2145	
5	16QAM	12	13	2154	2152	2147	23
5	16QAM	25	0	2151	2148	2144	
5	16QAM	1	0	2157	2166	2163	
5	16QAM	1	24	2166	2170	2164	22
5	16QAM	1	24	2179	2178	2167	
5	16QAM	12	0	2030	2040	2047	
5	16QAM	12	7	2037	2035	2031	20
5	16QAM	12	13	2037	2038	2032	
5	16QAM	25	0	2031	2040	2041	
5	256QAM	1	0	1825	1831	1816	20
5	256QAM	1	12	1840	1845	1842	
5	256QAM	1	24	1852	1839	1837	
5	256QAM	12	7	1825	1833	1830	20
5	256QAM	12	13	1836	1837	1837	
5	256QAM	25	0	1820	1830	1831	



Band 30_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq	Power Middle Ch. F/Freq	Power High Ch. F/Freq	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.87			25.7
10	QPSK	1	25	23.88			
10	QPSK	1	49	23.85			
10	QPSK	25	0	22.90			24.7
10	QPSK	25	12	22.94			
10	QPSK	25	25	22.96			
10	QPSK	50	0	22.94			24.7
10	16QAM	1	0	23.21			
10	16QAM	1	25	23.25			
10	16QAM	1	49	23.23			23.7
10	16QAM	25	0	21.88			
10	16QAM	25	12	21.97			
10	16QAM	25	25	21.94			23.7
10	16QAM	50	0	21.93			
10	16QAM	1	0	22.90			
10	16QAM	1	25	22.17			22.7
10	16QAM	1	49	22.02			
10	16QAM	25	0	20.90			
10	16QAM	25	12	21.82			20.7
10	16QAM	25	25	20.95			
10	16QAM	50	0	20.88			
10	256QAM	1	0	19.20			20.7
10	256QAM	1	25	19.23			
10	256QAM	1	49	19.13			
10	256QAM	25	0	18.96			20.7
10	256QAM	25	12	19.06			
10	256QAM	25	25	19.03			
10	256QAM	50	0	19.03			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.75	23.79	23.86	25.7
5	QPSK	1	25	23.82	23.86	23.90	
5	QPSK	1	24	23.85	23.87	23.79	
5	QPSK	12	0	22.87	22.89	22.94	24.7
5	QPSK	12	12	22.98	22.94	22.98	
5	QPSK	12	13	22.89	22.83	22.86	
5	QPSK	25	0	22.97	22.94	22.96	24.7
5	16QAM	1	0	23.07	23.10	23.17	
5	16QAM	1	12	23.18	23.17	23.13	
5	16QAM	1	24	23.24	23.18	23.29	23.7
5	16QAM	12	0	21.88	21.83	21.95	
5	16QAM	12	7	22.01	21.98	22.00	
5	16QAM	12	13	22.01	21.95	21.96	23.7
5	16QAM	25	0	21.98	21.94	21.94	
5	16QAM	1	0	22.03	22.08	21.87	
5	16QAM	1	24	22.16	22.14	21.97	22.7
5	16QAM	1	24	22.16	22.09	21.83	
5	16QAM	12	0	20.94	20.96	20.93	
5	16QAM	12	7	21.05	21.02	20.95	22.7
5	16QAM	12	13	21.05	20.96	20.95	
5	16QAM	25	0	21.01	21.00	20.81	
5	256QAM	1	0	19.11	19.19	19.16	20.7
5	256QAM	1	12	19.21	19.19	19.22	
5	256QAM	1	24	19.06	19.05	19.07	
5	256QAM	12	0	18.93	18.98	19.00	20.7
5	256QAM	12	7	18.99	19.06	18.96	
5	256QAM	12	13	19.03	18.93	18.99	
5	256QAM	25	0	19.03	18.96	19.01	



Band 71_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)			
Channel										
Frequency (MHz)										
693 693 698										
20	QPSK	1	0	2348	2348	2337	25			
20	QPSK	1	49	2342	2341	2337				
20	QPSK	1	99	2336	2339	2338				
20	QPSK	60	0	2257	2258	2248	24			
20	QPSK	50	24	2254	2249	2248				
20	QPSK	50	50	2258	2251	2250				
20	HQAM	100	0	2251	2252	2248	24			
20	HQAM	1	0	2288	2282	2274				
20	HQAM	1	49	2277	2277	2276				
20	HQAM	1	99	2271	2272	2271	23			
20	HQAM	50	0	2159	2153	2148				
20	HQAM	50	24	2161	2161	2149				
20	HQAM	50	50	2158	2153	2150	23			
20	HQAM	100	0	2159	2148	2148				
20	HQAM	1	0	2173	2167	2163				
20	HQAM	1	49	2158	2150	2158	22			
20	HQAM	1	99	2159	2163	2160				
20	HQAM	50	0	2053	2056	2047				
20	HQAM	50	24	2083	2054	2051	20			
20	HQAM	50	50	2080	2058	2053				
20	HQAM	100	0	2081	2052	2049				
20	SSBQAM	1	0	1858	1844	1837	20			
20	SSBQAM	1	49	1857	1832	1846				
20	SSBQAM	1	99	1846	1845	1848				
20	SSBQAM	50	0	1847	1843	1830	20			
20	SSBQAM	50	24	1841	1835	1829				
20	SSBQAM	50	50	1835	1835	1827				
20	SSBQAM	100	0	1843	1838	1829	20			
Channel										
Frequency (MHz)										
670.5 680.5 690.5										
15	QPSK	1	0	2341	2348	2329	25			
15	QPSK	1	49	2340	2337	2330				
15	QPSK	1	74	2325	2332	2327				
15	QPSK	30	0	2249	2248	2241	24			
15	QPSK	30	20	2250	2245	2240				
15	QPSK	30	39	2247	2241	2244				
15	HQAM	1	0	2282	2282	2271	24			
15	HQAM	1	39	2275	2267	2268				
15	HQAM	1	74	2268	2270	2270				
15	HQAM	30	0	2153	2153	2144	23			
15	HQAM	30	20	2158	2142	2144				
15	HQAM	30	39	2148	2151	2146				
15	HQAM	75	0	2153	2141	2144	23			
15	HQAM	1	0	2168	2157	2162				
15	HQAM	1	39	2158	2151	2155				
15	HQAM	1	74	2150	2158	2160	22			
15	HQAM	30	0	2047	2049	2042				
15	HQAM	30	20	2052	2054	2050				
15	HQAM	30	39	2052	2054	2050	20			
15	HQAM	75	0	2058	2048	2049				
15	SSBQAM	1	0	1853	1840	1835				
15	SSBQAM	1	39	1852	1831	1843	20			
15	SSBQAM	1	74	1846	1835	1847				
15	SSBQAM	30	0	1843	1840	1834				
15	SSBQAM	30	20	1838	1835	1823	20			
15	SSBQAM	30	39	1830	1830	1822				
15	SSBQAM	75	0	1830	1833	1819				
Channel										
Frequency (MHz)										
13312 13322 13342										
10	QPSK	1	0	2340	2348	2335	25			
10	QPSK	1	25	2340	2338	2334				
10	QPSK	1	49	2325	2334	2334				
10	QPSK	25	0	2287	2283	2280	24			
10	QPSK	25	12	2283	2248	2247				
10	QPSK	25	25	2281	2248	2249				
10	HQAM	1	0	2248	2245	2240	24			
10	HQAM	1	0	2288	2282	2270				
10	HQAM	1	25	2287	2269	2276				
10	HQAM	1	49	2284	2282	2285	24			
10	HQAM	25	0	2152	2152	2139				
10	HQAM	25	12	2159	2151	2146				
10	HQAM	25	25	2150	2143	2148	23			
10	HQAM	50	0	2154	2148	2140				
10	HQAM	1	0	2172	2163	2155				
10	HQAM	1	25	2184	2127	2153	23			
10	HQAM	1	49	2149	2156	2159				
10	HQAM	25	0	2040	2036	2040				
10	HQAM	25	12	2052	2045	2049	22			
10	HQAM	25	25	2058	2053	2051				
10	HQAM	50	0	2058	2050	2042				
10	SSBQAM	1	0	1848	1839	1832	20			
10	SSBQAM	1	25	1847	1824	1841				
10	SSBQAM	1	49	1845	1843	1844				
10	SSBQAM	25	0	1838	1840	1832	20			
10	SSBQAM	25	12	1834	1828	1823				
10	SSBQAM	25	25	1833	1834	1823				
10	SSBQAM	50	0	1841	1838	1823	20			
Channel										
Frequency (MHz)										
692.5 670.5 690.5										
5	QPSK	1	0	2341	2345	2331	25			
5	QPSK	1	12	2338	2341	2331				
5	QPSK	1	24	2328	2338	2329				
5	QPSK	10	0	2250	2255	2238	24			
5	QPSK	12	7	2245	2243	2230				
5	QPSK	12	13	2250	2244	2248				
5	HQAM	1	0	2243	2244	2242	24			
5	HQAM	1	0	2279	2277	2285				
5	HQAM	1	12	2270	2274	2287				
5	HQAM	1	24	2282	2269	2282	24			
5	HQAM	12	0	2149	2152	2148				
5	HQAM	12	13	2154	2146	2140				
5	HQAM	12	13	2149	2148	2149	23			
5	HQAM	25	0	2153	2139	2146				
5	HQAM	1	0	2173	2160	2158				
5	HQAM	1	12	2182	2188	2185	23			
5	HQAM	1	24	2159	2160	2159				
5	HQAM	10	0	2048	2047	2043				
5	HQAM	12	7	2061	2053	2049	22			
5	HQAM	12	13	2059	2054	2048				
5	HQAM	25	0	2059	2052	2047				
5	SSBQAM	1	0	1855	1838	1849	20			
5	SSBQAM	1	12	1857	1823	1846				
5	SSBQAM	1	24	1842	1841	1848				
5	SSBQAM	12	0	1847	1835	1832	20			
5	SSBQAM	12	13	1840	1832	1827				
5	SSBQAM	12	13	1830	1828	1820				
5	SSBQAM	25	0	1834	1827	1822	20			



Band 2_Ant 2						
BW (MHz)	Modulation	RBI Size	RBI Offset	Power Low Ch / Freq	Power High Ch / Freq	Time-up limit (min)
Channel						
Frequency (MHz)						
1880 1880 1880						
20	QPSK	1	0	22.87	22.87	23.17
20	QPSK	1	49	22.84	22.97	23.13
20	QPSK	1	99	22.93	23.03	23.10
20	QPSK	64	0	22.85	23.04	23.12
20	QPSK	50	24	23.04	23.06	23.18
20	QPSK	50	50	23.01	23.18	23.26
20	QPSK	100	0	23.02	23.13	23.19
20	HQAM	1	0	23.09	23.26	23.42
20	HQAM	1	49	23.11	23.33	23.29
20	HQAM	1	99	23.25	23.33	23.35
20	HQAM	50	0	23.21	23.72	23.81
20	HQAM	50	24	22.75	22.77	22.90
20	HQAM	50	50	22.79	22.92	22.97
20	HQAM	100	0	22.74	22.77	22.84
20	HQAM	1	0	23.00	23.00	23.06
20	HQAM	1	49	23.04	22.79	23.30
20	HQAM	1	99	23.14	22.98	22.14
20	HQAM	50	0	23.04	23.01	23.22
20	HQAM	50	24	21.76	21.83	21.69
20	HQAM	50	50	21.88	21.90	21.24
20	HQAM	100	0	21.67	21.78	21.33
20	SFQAM	1	0	19.92	19.95	19.87
20	SFQAM	1	49	19.84	19.71	19.72
20	SFQAM	1	99	19.88	19.76	19.89
20	SFQAM	50	0	19.85	19.51	19.51
20	SFQAM	50	24	19.87	19.56	19.56
20	SFQAM	50	50	19.51	19.73	19.75
20	SFQAM	100	0	19.62	19.64	19.71
Channel						
Frequency (MHz)						
1892.5 1890 1892.5						
15	QPSK	1	0	22.87	22.88	23.14
15	QPSK	1	49	22.80	22.86	23.10
15	QPSK	1	74	22.84	23.01	23.01
15	QPSK	36	0	22.80	22.95	23.12
15	QPSK	36	20	23.00	22.97	23.10
15	QPSK	36	39	23.01	23.12	23.26
15	QPSK	72	0	22.96	23.01	23.14
15	HQAM	1	0	22.96	23.26	23.35
15	HQAM	1	37	23.03	23.27	23.22
15	HQAM	1	74	23.15	23.24	23.33
15	HQAM	36	0	22.98	23.71	23.78
15	HQAM	36	20	22.71	22.73	22.92
15	HQAM	36	39	22.71	22.84	22.94
15	HQAM	72	0	22.74	22.69	22.92
15	HQAM	1	0	22.98	22.79	22.93
15	HQAM	1	49	23.00	22.75	23.75
15	HQAM	1	74	23.10	22.90	22.97
15	HQAM	36	0	21.83	21.77	21.12
15	HQAM	36	20	21.69	21.83	20.99
15	HQAM	36	39	21.68	21.83	21.15
15	HQAM	72	0	21.62	21.72	21.03
15	SFQAM	1	0	19.87	19.47	19.64
15	SFQAM	1	37	19.50	19.84	19.88
15	SFQAM	1	74	19.70	19.77	19.86
15	SFQAM	36	0	19.51	19.44	19.44
15	SFQAM	36	20	19.61	19.58	19.80
15	SFQAM	36	39	19.68	19.73	19.75
15	SFQAM	72	0	19.50	19.52	19.83
Channel						
Frequency (MHz)						
1895 1890 1895						
10	QPSK	1	0	22.83	22.81	23.13
10	QPSK	1	25	22.81	22.90	23.03
10	QPSK	1	49	22.85	22.93	23.03
10	QPSK	25	0	22.82	22.97	23.09
10	QPSK	25	12	23.00	22.98	23.11
10	QPSK	25	24	23.01	23.10	23.20
10	QPSK	60	0	22.95	22.95	23.15
10	HQAM	1	0	22.97	23.26	23.34
10	HQAM	1	25	23.01	23.30	23.29
10	HQAM	1	49	23.21	23.33	23.30
10	HQAM	25	0	22.96	23.60	23.76
10	HQAM	25	12	22.99	22.72	22.84
10	HQAM	25	24	22.78	22.82	22.89
10	HQAM	50	0	22.73	22.75	22.76
10	HQAM	1	0	22.97	22.73	22.98
10	HQAM	1	25	22.99	22.69	21.72
10	HQAM	1	49	22.97	22.97	22.97
10	HQAM	25	0	21.85	21.71	21.17
10	HQAM	25	12	21.76	21.78	21.09
10	HQAM	25	24	21.62	21.86	21.15
10	HQAM	50	0	21.60	21.70	21.04
10	SFQAM	1	0	19.87	19.87	19.87
10	SFQAM	1	25	19.53	19.52	19.52
10	SFQAM	1	49	19.85	19.69	19.85
10	SFQAM	25	0	19.48	19.47	19.62
10	SFQAM	25	12	19.50	19.57	19.83
10	SFQAM	25	24	19.51	19.65	19.71
10	SFQAM	50	0	19.49	19.47	19.68
Channel						
Frequency (MHz)						
1897.5 1890 1897.5						
5	QPSK	1	0	22.74	22.81	23.13
5	QPSK	1	12	22.77	22.84	23.09
5	QPSK	1	24	22.91	22.93	23.09
5	QPSK	12	0	22.82	23.01	23.05
5	QPSK	12	7	22.84	22.96	23.14
5	QPSK	12	13	22.91	23.12	23.25
5	QPSK	24	0	22.92	23.03	23.11
5	HQAM	1	0	23.00	23.22	23.41
5	HQAM	1	12	23.04	23.36	23.23
5	HQAM	1	24	23.19	23.27	23.31
5	HQAM	12	0	22.99	22.70	22.73
5	HQAM	12	7	22.73	22.71	22.80
5	HQAM	12	13	22.74	22.90	22.98
5	HQAM	24	0	22.74	22.75	22.79
5	HQAM	1	0	22.98	22.72	22.88
5	HQAM	1	12	22.85	22.78	21.78
5	HQAM	1	24	23.04	22.96	23.13
5	HQAM	12	0	21.62	21.72	21.15
5	HQAM	12	7	21.74	21.83	21.09
5	HQAM	24	0	21.60	21.64	21.15
5	HQAM	1	0	21.55	21.68	21.09
5	SFQAM	1	0	19.89	19.53	19.67
5	SFQAM	1	12	19.48	19.60	19.70
5	SFQAM	1	24	19.51	19.69	19.79
5	SFQAM	12	0	19.61	19.44	19.49
5	SFQAM	12	7	19.63	19.58	19.58
5	SFQAM	12	13	19.59	19.66	19.75
5	SFQAM	24	0	19.48	19.47	19.64
Channel						
Frequency (MHz)						
1897.5 1890 1903						
1.4	QPSK	1	0	22.87	22.78	23.12
1.4	QPSK	1	3	22.88	22.99	23.10
1.4	QPSK	3	0	22.81	22.93	23.03
1.4	QPSK	3	0	22.80	22.92	23.07
1.4	QPSK	3	1	22.87	23.04	23.07
1.4	QPSK	3	1	22.92	22.97	23.07
1.4	QPSK	6	0	22.84	22.97	23.11
1.4	HQAM	1	0	22.98	23.14	23.32
1.4	HQAM	1	3	23.09	23.21	23.32
1.4	HQAM	1	5	22.98	23.14	23.24
1.4	HQAM	3	0	22.95	23.02	23.15
1.4	HQAM	3	1	22.89	23.13	23.22
1.4	HQAM	3	2	22.85	23.10	23.13
1.4	HQAM	6	0	22.84	22.71	22.85
1.4	HQAM	1	0	22.84	22.72	22.25
1.4	HQAM	1	3	22.86	22.96	22.24
1.4	HQAM	1	5	22.81	22.79	22.28
1.4	HQAM	3	0	22.55	22.70	22.38
1.4	HQAM	3	1	22.55	22.68	22.39
1.4	HQAM	3	2	22.58	22.72	22.34
1.4	SFQAM	1	0	21.59	21.68	21.40
1.4	SFQAM	1	3	19.50	19.60	19.54
1.4	SFQAM	1	5	19.73	19.62	19.70
1.4	SFQAM	3	0	19.80	19.41	19.41
1.4	SFQAM	3	1	19.48	19.60	19.65
1.4	SFQAM	3	2	19.54	19.70	19.71
1.4	SFQAM	6	0	19.65	19.44	19.67



Band 5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel				2040	2055	2070			
Frequency (MHz)				830	835	844			
10	QPSK	1	0	2448	2454	2455			
10	QPSK	1	26	2448	2452	2450			25.7
10	QPSK	1	49	2458	2448	2443			
10	QPSK	26	0	2358	2344	2342			
10	QPSK	26	12	2369	2365	2362			24.7
10	QPSK	26	25	2363	2367	2362			
10	QPSK	26	0	2367	2364	2360			
10	QPSK	1	0	2388	2389	2384			
10	HQAM	1	25	2390	2393	2391			24.7
10	HQAM	1	49	2395	2390	2391			
10	HQAM	26	0	2257	2252	2259			
10	HQAM	26	12	2258	2254	2257			23.7
10	HQAM	26	25	2264	2263	2256			
10	HQAM	26	0	2268	2262	2258			
10	HQAM	1	0	2284	2278	2270			
10	HQAM	1	26	2252	2257	2252			23.7
10	HQAM	1	49	2282	2281	2278			
10	HQAM	26	0	2162	2166	2164			
10	HQAM	26	12	2171	2169	2167			22.7
10	HQAM	26	25	2186	2170	2157			
10	HQAM	26	0	2170	2166	2162			
10	256QAM	1	0	1940	1933	1932			
10	256QAM	1	26	1944	1945	1944			20.7
10	256QAM	1	49	1952	1948	1937			
10	256QAM	26	0	1941	1941	1943			
10	256QAM	26	12	1944	1939	1938			20.7
10	256QAM	26	25	1934	1938	1938			
10	256QAM	26	0	1944	1937	1938			
Channel				825.5	825.5	825.5			Turn-up (dBm)
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	2454	2452	2448			
5	QPSK	1	24	2450	2453	2448			25.7
5	QPSK	1	24	2446	2448	2448			
5	QPSK	12	0	2359	2370	2381			
5	QPSK	12	4	2368	2367	2358			24.7
5	QPSK	12	13	2380	2385	2384			
5	QPSK	26	0	2363	2369	2355			
5	HQAM	1	0	2369	2365	2369			
5	HQAM	1	12	2369	2365	2383			24.7
5	HQAM	1	24	2369	2361	2378			
5	HQAM	12	0	2284	2272	2281			
5	HQAM	12	7	2288	2289	2258			23.7
5	HQAM	12	13	2281	2287	2281			
5	HQAM	26	0	2269	2271	2258			
5	HQAM	1	0	2281	2280	2282			
5	HQAM	1	0	2280	2288	2287			23.7
5	HQAM	1	24	2282	2286	2282			
5	HQAM	12	0	2189	2175	2187			
5	HQAM	12	7	2173	2175	2141			22.7
5	HQAM	12	13	2188	2170	2122			
5	HQAM	26	0	2189	2174	2145			
5	256QAM	1	0	1933	1948	1944			20.7
5	256QAM	1	12	1940	1941	1941			
5	256QAM	1	24	1938	1945	1934			
5	256QAM	12	0	1935	1932	1943			
5	256QAM	12	7	1937	1928	1930			20.7
5	256QAM	12	13	1933	1938	1938			
5	256QAM	26	0	1934	1937	1931			
Channel				20415	20525	20635			Turn-up (dBm)
Frequency (MHz)				824.7	824.5	824.5			
3	QPSK	1	0	2380	2387	2385			
3	QPSK	1	8	2387	2394	2383			25.7
3	QPSK	8	0	2378	2383	2371			
3	QPSK	8	0	2289	2293	2287			24.7
3	QPSK	8	4	2295	2301	2287			
3	QPSK	8	0	2288	2293	2283			
3	QPSK	16	0	2290	2297	2286			
3	HQAM	1	0	2311	2317	2311			24.7
3	HQAM	1	8	2318	2320	2313			
3	HQAM	1	14	2311	2318	2303			
3	HQAM	8	0	2195	2200	2194			23.7
3	HQAM	8	4	2198	2206	2196			
3	HQAM	8	7	2195	2198	2187			
3	HQAM	16	0	2196	2201	2190			23.7
3	HQAM	1	0	2103	2215	2190			
3	HQAM	1	8	2313	2221	2171			
3	HQAM	1	14	2302	2299	2170			22.7
3	HQAM	8	0	2190	2180	2078			
3	HQAM	8	4	2194	2103	2178			
3	HQAM	8	7	2189	2098	2171			
3	HQAM	16	0	2192	2098	2172			
3	256QAM	1	0	1945	1945	1946			20.7
3	256QAM	1	14	1938	1947	1929			
3	256QAM	8	0	1938	1941	1930			
3	256QAM	8	4	1935	1939	1927			20.7
3	256QAM	8	7	1933	1933	1920			
3	256QAM	16	0	1938	1938	1931			
Channel				20607	20625	20643			Turn-up (dBm)
Frequency (MHz)				824.7	824.5	824.5			
1.4	QPSK	1	0	2374	2379	2370			
1.4	QPSK	1	3	2380	2386	2376			25.7
1.4	QPSK	1	5	2370	2380	2371			
1.4	QPSK	3	0	2389	2380	2375			
1.4	QPSK	3	1	2383	2380	2380			
1.4	QPSK	3	3	2378	2381	2372			24.7
1.4	QPSK	6	0	2283	2291	2277			
1.4	HQAM	1	0	2305	2311	2307			
1.4	HQAM	1	5	2314	2321	2312			24.7
1.4	HQAM	1	5	2307	2312	2300			
1.4	HQAM	3	0	2289	2289	2282			
1.4	HQAM	3	1	2293	2290	2286			23.7
1.4	HQAM	3	1	2283	2291	2278			
1.4	HQAM	6	0	2191	2199	2186			
1.4	HQAM	1	0	2198	2204	2172			23.7
1.4	HQAM	1	3	2210	2215	2178			
1.4	HQAM	1	6	2200	2204	2172			
1.4	HQAM	3	0	2199	2197	2173			
1.4	HQAM	3	1	2194	2200	2173			
1.4	HQAM	3	1	2189	2193	2173			22.7
1.4	HQAM	6	0	2078	2084	2071			
1.4	256QAM	1	0	1940	1948	1947			
1.4	256QAM	1	3	1937	1941	1941			20.7
1.4	256QAM	1	5	1947	1947	1927			
1.4	256QAM	3	0	1931	1939	1938			
1.4	256QAM	3	0	1944	1938	1938			
1.4	256QAM	3	1	1927	1938	1923			
1.4	256QAM	6	0	1938	1938	1930			20.7



Band 7_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (min)
Channel							
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	2275	2296	2314	23.3
20	QPSK	1	49	2255	2281	2298	
20	QPSK	1	99	2277	2297	2291	
20	QPSK	60	0	2244	2287	2294	23.3
20	QPSK	50	24	2258	2283	2285	
20	QPSK	50	50	2259	2287	2286	
20	QPSK	100	0	2258	2272	2288	23.3
20	HQAM	1	0	2287	2272	2310	
20	HQAM	1	49	2254	2270	2291	
20	HQAM	50	24	2267	2286	2284	23.3
20	HQAM	50	50	2258	2284	2289	
20	HQAM	100	0	2258	2270	2283	
20	HQAM	1	49	2253	2278	2282	23.3
20	HQAM	1	99	2262	2282	2281	
20	HQAM	60	0	2263	2285	2283	
20	HQAM	50	24	2283	2285	2288	22.7
20	HQAM	50	50	2286	2223	2220	
20	HQAM	100	0	2282	2283	2288	
20	256QAM	1	0	1978	1977	1989	20.7
20	256QAM	1	49	1983	1971	1988	
20	256QAM	1	99	1989	1975	1972	
20	256QAM	50	0	1982	1980	1984	20.7
20	256QAM	50	24	1986	1985	1984	
20	256QAM	50	50	1971	1987	1986	
20	256QAM	100	0	1979	1982	1980	Time-up (min)
Channel							
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	2268	2296	2280	23.3
15	QPSK	1	49	2266	2281	2290	
15	QPSK	1	74	2271	2282	2274	
15	QPSK	30	0	2234	2283	2283	23.3
15	QPSK	30	20	2253	2282	2284	
15	QPSK	30	39	2280	2278	2282	
15	QPSK	75	0	2252	2272	2284	23.3
15	HQAM	1	0	2253	2289	2308	
15	HQAM	1	39	2249	2279	2288	
15	HQAM	1	74	2284	2284	2277	23.3
15	HQAM	30	0	2238	2282	2283	
15	HQAM	30	20	2254	2287	2274	
15	HQAM	30	39	2285	2271	2286	23.3
15	HQAM	75	0	2252	2281	2275	
15	HQAM	1	0	2249	2280	2289	
15	HQAM	1	74	2282	2272	2277	23.3
15	HQAM	1	74	2282	2281	2282	
15	HQAM	30	0	2185	2214	2226	
15	HQAM	30	20	2194	2211	2225	22.7
15	HQAM	30	39	2281	2289	2284	
15	HQAM	75	0	2184	2202	2213	
15	256QAM	1	0	1987	1974	1988	20.7
15	256QAM	1	39	1972	1983	1985	
15	256QAM	1	74	1986	1980	1972	
15	256QAM	30	0	1958	1955	1959	20.7
15	256QAM	30	20	1967	1951	1987	
15	256QAM	30	39	1987	1958	1984	
15	256QAM	75	0	1974	1955	1957	Time-up (min)
Channel							
Frequency (MHz)				2100	2100	2100	
10	QPSK	1	0	2272	2296	2278	23.3
10	QPSK	1	25	2280	2278	2294	
10	QPSK	1	49	2271	2287	2281	
10	QPSK	25	0	2241	2283	2281	23.3
10	QPSK	25	12	2252	2280	2277	
10	QPSK	25	25	2251	2278	2280	
10	QPSK	50	0	2249	2284	2279	23.3
10	HQAM	1	0	2248	2286	2306	
10	HQAM	1	25	2249	2279	2291	
10	HQAM	1	49	2284	2287	2280	23.3
10	HQAM	25	0	2240	2282	2281	
10	HQAM	25	12	2259	2288	2276	
10	HQAM	25	25	2252	2277	2288	23.3
10	HQAM	50	0	2256	2285	2282	
10	HQAM	1	0	2258	2280	2282	
10	HQAM	1	25	2246	2280	2278	23.3
10	HQAM	1	49	2280	2278	2286	
10	HQAM	25	0	2185	2287	2282	
10	HQAM	25	12	2280	2211	2199	22.7
10	HQAM	25	25	2198	2216	2211	
10	HQAM	50	0	2187	2213	2212	
10	256QAM	1	0	1972	1980	1982	20.7
10	256QAM	1	25	1971	1985	1981	
10	256QAM	1	49	1988	1988	1970	
10	256QAM	25	0	1988	1987	1987	20.7
10	256QAM	25	12	1984	1950	1958	
10	256QAM	25	25	1984	1960	1986	
10	256QAM	50	0	1971	1981	1988	Time-up (min)
Channel							
Frequency (MHz)				2177.5	2190	2182.5	
5	QPSK	1	0	2268	2284	2290	23.3
5	QPSK	1	12	2284	2277	2301	
5	QPSK	1	24	2289	2291	2273	
5	QPSK	15	0	2242	2280	2274	23.3
5	QPSK	12	7	2251	2284	2284	
5	QPSK	12	15	2254	2273	2277	
5	QPSK	25	0	2255	2286	2282	23.3
5	HQAM	1	0	2247	2284	2300	
5	HQAM	1	12	2248	2279	2286	
5	HQAM	1	24	2268	2288	2281	23.3
5	HQAM	15	0	2245	2284	2279	
5	HQAM	12	13	2252	2283	2282	
5	HQAM	25	0	2251	2284	2283	23.3
5	HQAM	1	0	2247	2286	2282	
5	HQAM	1	12	2282	2273	2281	
5	HQAM	11	24	2282	2273	2282	22.7
5	HQAM	15	0	2189	2205	2206	
5	HQAM	12	7	2195	2208	2198	
5	256QAM	1	0	1988	1988	1986	20.7
5	256QAM	1	12	1970	1988	1988	
5	256QAM	1	24	1982	1971	1986	
5	256QAM	12	0	1958	1951	1958	20.7
5	256QAM	12	13	1986	1980	1980	
5	256QAM	22	0	1971	1987	1984	



Band 12_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)
Channel							
Frequency (MHz)				701	707.5	711	
10	QPSK	1	0	2464	2463	2459	25.7
10	QPSK	1	26	2459	2460	2462	
10	QPSK	1	49	2467	2463	2460	24.7
10	QPSK	25	0	2372	2374	2371	
10	QPSK	25	12	2378	2373	2372	24.7
10	QPSK	25	25	2377	2379	2380	
10	QPSK	50	0	2378	2371	2373	24.7
10	HQAM	1	0	2386	2385	2387	
10	HQAM	1	26	2387	2389	2401	23.7
10	HQAM	26	0	2271	2273	2274	
10	HQAM	26	12	2276	2273	2275	23.7
10	HQAM	26	25	2272	2280	2277	
10	HQAM	50	0	2275	2272	2274	23.7
10	HQAM	50	26	2281	2280	2283	
10	HQAM	1	26	2288	2282	2286	22.7
10	HQAM	1	49	2286	2291	2294	
10	HQAM	26	0	2178	2174	2176	22.7
10	HQAM	26	12	2184	2177	2178	
10	HQAM	26	25	2179	2181	2180	20.7
10	HQAM	50	0	2182	2177	2177	
10	HQAM	1	0	1942	1954	1950	20.7
10	HQAM	1	26	1956	1957	1959	
10	HQAM	26	0	1952	1958	1954	20.7
10	HQAM	26	12	1956	1948	1945	
10	HQAM	26	25	1942	1947	1955	20.7
10	HQAM	50	0	1953	1951	1951	
Channel							
Frequency (MHz)				701.5	707.5	711.5	
5	QPSK	1	0	2465	2466	2460	25.7
5	QPSK	1	24	2465	2460	2460	
5	QPSK	1	24	2484	2465	2464	24.7
5	QPSK	12	0	2375	2373	2373	
5	QPSK	12	12	2378	2380	2370	24.7
5	QPSK	12	12	2370	2374	2372	
5	QPSK	25	0	2373	2371	2371	24.7
5	HQAM	1	0	2388	2389	2387	
5	HQAM	1	12	2401	2401	2389	23.7
5	HQAM	1	24	2402	2401	2387	
5	HQAM	12	0	2283	2278	2278	23.7
5	HQAM	12	7	2278	2280	2274	
5	HQAM	12	12	2275	2275	2275	23.7
5	HQAM	25	0	2276	2271	2270	
5	HQAM	1	0	2288	2285	2288	23.7
5	HQAM	1	24	2282	2283	2284	
5	HQAM	1	24	2286	2288	2282	22.7
5	HQAM	12	0	2186	2182	2182	
5	HQAM	12	7	2183	2183	2178	22.7
5	HQAM	12	12	2178	2180	2177	
5	HQAM	25	0	2176	2174	2174	20.7
5	HQAM	25	0	1948	1948	1948	
5	HQAM	1	12	1950	1949	1952	20.7
5	HQAM	1	24	1952	1951	1951	
5	HQAM	12	7	1951	1948	1942	20.7
5	HQAM	12	12	1948	1937	1954	
5	HQAM	25	0	1953	1949	1948	20.7
5	HQAM	25	0	1953	1949	1948	
Channel							
Frequency (MHz)				701.5	707.5	711.5	
3	QPSK	1	0	2382	2388	2386	25.7
3	QPSK	1	8	2382	2385	2383	
3	QPSK	8	0	2385	2380	2384	24.7
3	QPSK	8	4	2286	2287	2284	
3	QPSK	8	4	2286	2280	2287	24.7
3	QPSK	16	0	2284	2287	2282	
3	QPSK	16	0	2286	2282	2282	24.7
3	HQAM	1	0	2388	2389	2382	
3	HQAM	8	8	2331	2331	2329	23.7
3	HQAM	1	14	2318	2322	2319	
3	HQAM	8	4	2286	2281	2280	23.7
3	HQAM	8	4	2285	2286	2284	
3	HQAM	8	7	2280	2286	2188	23.7
3	HQAM	16	0	2281	2282	2184	
3	HQAM	1	0	2221	2214	2214	22.7
3	HQAM	1	8	2224	2223	2220	
3	HQAM	8	14	2215	2216	2212	22.7
3	HQAM	8	0	2183	2183	2086	
3	HQAM	8	4	2186	2187	2184	22.7
3	HQAM	8	7	2089	2182	2089	
3	HQAM	16	0	2100	2095	2093	20.7
3	HQAM	1	0	1948	1948	1943	
3	HQAM	1	14	1958	1947	1948	20.7
3	HQAM	8	4	1953	1948	1939	
3	HQAM	8	7	1945	1937	1953	20.7
3	HQAM	16	0	1951	1944	1942	
Channel							
Frequency (MHz)				692.7	707.5	711.5	
1.4	QPSK	1	0	2378	2374	2373	25.7
1.4	QPSK	1	3	2378	2380	2380	
1.4	QPSK	1	5	2372	2373	2371	24.7
1.4	QPSK	3	1	2384	2378	2379	
1.4	QPSK	3	3	2374	2378	2374	24.7
1.4	QPSK	6	0	2283	2284	2281	
1.4	HQAM	1	0	2388	2387	2389	23.7
1.4	HQAM	1	5	2388	2385	2383	
1.4	HQAM	3	0	2289	2284	2286	23.7
1.4	HQAM	3	1	2284	2283	2282	
1.4	HQAM	6	0	2188	2180	2186	23.7
1.4	HQAM	1	3	2286	2289	2283	
1.4	HQAM	1	0	2283	2282	2187	23.7
1.4	HQAM	3	1	2188	2184	2186	
1.4	HQAM	3	1	2282	2187	2280	22.7
1.4	HQAM	6	0	2089	2086	2083	
1.4	HQAM	1	0	1938	1948	1942	20.7
1.4	HQAM	1	5	1957	1954	1956	
1.4	HQAM	1	5	1958	1957	1956	20.7
1.4	HQAM	3	0	1942	1945	1951	
1.4	HQAM	3	1	1956	1941	1938	20.7
1.4	HQAM	3	1	1939	1944	1952	
1.4	HQAM	6	0	1947	1948	1950	20.7



Band 13_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	23.98			25.2
10	QPSK	1	49	24.02			
10	QPSK	1	49	24.10			
10	QPSK	25	0	23.16			24.2
10	QPSK	25	12	23.17			
10	QPSK	25	25	23.19			
10	QPSK	50	0	23.18			24.2
10	16QAM	1	0	23.38			
10	16QAM	1	25	23.37			
10	16QAM	1	49	23.40			23.2
10	16QAM	25	0	22.17			
10	16QAM	25	12	22.20			
10	16QAM	25	25	22.22			23.2
10	16QAM	50	0	22.19			
10	16QAM	1	0	22.21			
10	16QAM	1	25	22.32			22.2
10	16QAM	1	49	22.34			
10	16QAM	25	0	21.17			
10	16QAM	25	12	21.24			22.2
10	16QAM	25	25	21.23			
10	16QAM	50	0	21.23			
10	256QAM	1	0	18.81			20.2
10	256QAM	1	25	18.97			
10	256QAM	1	49	18.91			
10	256QAM	25	0	18.78			20.2
10	256QAM	25	12	18.86			
10	256QAM	25	25	18.89			
10	256QAM	50	0	18.84			
Channel							
Frequency (MHz)							
5	QPSK	1	0	23.93	23.98	23.74	25.2
5	QPSK	1	49	24.04	24.07	23.77	
5	QPSK	1	24	24.07	24.08	23.83	
5	QPSK	12	0	23.10	23.13	22.85	24.2
5	QPSK	12	12	23.18	23.15	22.93	
5	QPSK	12	13	23.19	23.21	22.89	
5	QPSK	25	0	23.18	23.14	22.90	24.2
5	16QAM	1	0	23.31	23.29	23.01	
5	16QAM	1	12	23.29	23.33	23.04	
5	16QAM	1	24	23.07	23.08	23.04	23.2
5	16QAM	12	0	22.20	22.17	21.92	
5	16QAM	12	7	22.20	22.17	21.95	
5	16QAM	12	13	22.21	22.22	21.94	23.2
5	16QAM	25	0	22.23	22.16	21.92	
5	16QAM	1	0	22.19	22.28	21.94	
5	16QAM	1	49	22.25	22.20	22.01	23.2
5	16QAM	1	24	22.29	22.32	22.02	
5	16QAM	12	0	21.22	21.23	20.96	
5	16QAM	12	7	21.28	21.21	20.98	22.2
5	16QAM	12	13	21.25	21.26	20.95	
5	16QAM	25	0	21.06	21.17	20.96	
5	256QAM	1	0	18.55	18.57	18.59	20.2
5	256QAM	1	12	18.93	18.96	18.94	
5	256QAM	1	24	18.96	18.99	18.96	
5	256QAM	12	7	18.83	18.78	18.79	20.2
5	256QAM	12	13	18.82	18.84	18.79	
5	256QAM	25	0	18.77	18.77	18.74	



Band 14_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F.Freq	Power Middle Ch. F.Freq	Power High Ch. F.Freq	Time-up (min)
Channel				700.5	700	700.5	
Frequency (MHz)				700.5	700	700.5	
10	QPSK	1	0	2459			
10	QPSK	1	25	2453			25.7
10	QPSK	1	49	2448			
10	QPSK	25	0	2355			
10	QPSK	25	12	2357			24.7
10	QPSK	25	25	2353			
10	QPSK	50	0	2355			
10	HQAM	1	0	2395			24.7
10	HQAM	1	25	2391			
10	HQAM	1	49	2386			
10	HQAM	25	0	2254			
10	HQAM	25	12	2257			23.7
10	HQAM	25	25	2254			
10	HQAM	50	0	2255			
10	HQAM	1	0	2279			
10	HQAM	1	25	2284			23.7
10	HQAM	1	49	2279			
10	HQAM	25	0	2158			
10	HQAM	25	12	2161			22.7
10	HQAM	25	25	2163			
10	HQAM	50	0	2159			
10	256QAM	1	0	1953			20.7
10	256QAM	1	25	1957			
10	256QAM	1	49	1955			
10	256QAM	25	0	1929			
10	256QAM	25	12	1934			20.7
10	256QAM	25	25	1933			
10	256QAM	50	0	1925			
Channel				2330.5	2330.5	2330.5	
Frequency (MHz)				700.5	700	700.5	
5	QPSK	1	0	2448	2448	2445	
5	QPSK	1	12	2456	2453	2450	25.7
5	QPSK	1	24	2455	2455	2448	
5	QPSK	12	0	2362	2354	2351	
5	QPSK	12	12	2368	2366	2360	24.7
5	QPSK	12	13	2361	2360	2356	
5	QPSK	25	0	2359	2354	2352	
5	HQAM	1	0	2382	2382	2379	
5	HQAM	1	12	2390	2392	2386	24.7
5	HQAM	1	24	2386	2386	2379	
5	HQAM	12	0	2284	2281	2283	
5	HQAM	12	7	2288	2289	2288	23.7
5	HQAM	12	13	2285	2284	2284	
5	HQAM	25	0	2262	2256	2256	
5	HQAM	1	0	2261	2277	2277	
5	HQAM	1	12	2263	2265	2264	23.7
5	HQAM	1	24	2262	2262	2260	
5	HQAM	12	0	2171	2160	2158	
5	HQAM	12	7	2169	2170	2168	22.7
5	HQAM	12	13	2163	2166	2161	
5	HQAM	25	0	2160	2161	2154	
5	256QAM	1	0	1947	1949	1953	
5	256QAM	1	12	1931	1933	1928	20.7
5	256QAM	1	24	1946	1946	1942	
5	256QAM	12	0	1919	1927	1927	
5	256QAM	12	7	1928	1926	1934	20.7
5	256QAM	12	13	1933	1930	1930	
5	256QAM	25	0	1921	1919	1915	



Band 17_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (ms)
Channel				700	710	711	
Frequency (MHz)							
10	QPSK	1	0	2458	2458	2458	25.7
10	QPSK	1	25	2458	2464	2460	
10	QPSK	1	49	2462	2466	2462	25.7
10	QPSK	25	0	2384	2386	2386	
10	QPSK	25	12	2378	2373	2371	24.7
10	QPSK	25	25	2380	2379	2380	
10	QPSK	50	0	2389	2372	2389	24.7
10	HQAM	1	0	2390	2392	2391	
10	HQAM	1	25	2401	2401	2400	24.7
10	HQAM	1	49	2401	2402	2402	
10	HQAM	25	0	2265	2264	2264	23.7
10	HQAM	25	12	2278	2271	2271	
10	HQAM	25	25	2277	2281	2276	23.7
10	HQAM	50	0	2269	2270	2267	
10	HQAM	1	0	2286	2276	2274	23.7
10	HQAM	1	25	2292	2297	2290	
10	HQAM	1	49	2292	2298	2293	22.7
10	HQAM	25	0	2167	2167	2167	
10	HQAM	25	12	2184	2178	2178	22.7
10	HQAM	25	25	2180	2182	2182	
10	HQAM	50	0	2170	2171	2171	20.7
10	256QAM	1	0	1944	1937	1933	
10	256QAM	1	25	1950	1948	1951	20.7
10	256QAM	1	49	1958	1960	1958	
10	256QAM	25	0	1946	1944	1946	20.7
10	256QAM	25	12	1956	1952	1943	
10	256QAM	25	25	1958	1954	1952	20.7
10	256QAM	50	0	1948	1948	1948	
Channel				706.5	710	713.5	
Frequency (MHz)							
5	QPSK	1	0	2457	2456	2455	25.7
5	QPSK	1	24	2460	2461	2463	
5	QPSK	1	24	2484	2461	2464	24.7
5	QPSK	12	0	2387	2389	2386	
5	QPSK	12	12	2378	2374	2380	24.7
5	QPSK	12	12	2377	2376	2373	
5	QPSK	25	0	2376	2376	2366	24.7
5	HQAM	1	0	2391	2393	2391	
5	HQAM	1	12	2397	2403	2398	23.7
5	HQAM	1	24	2408	2404	2401	
5	HQAM	12	0	2270	2272	2272	23.7
5	HQAM	12	7	2278	2274	2273	
5	HQAM	12	13	2278	2277	2274	23.7
5	HQAM	25	0	2274	2275	2269	
5	HQAM	1	0	2289	2287	2288	23.7
5	HQAM	1	24	2290	2296	2290	
5	HQAM	1	24	2294	2300	2293	22.7
5	HQAM	12	0	2173	2177	2178	
5	HQAM	12	7	2181	2179	2173	22.7
5	HQAM	12	13	2179	2185	2175	
5	HQAM	25	0	2179	2174	2170	20.7
5	256QAM	1	0	1941	1929	1924	
5	256QAM	1	12	1949	1946	1944	20.7
5	256QAM	1	24	1946	1950	1946	
5	256QAM	12	7	1958	1947	1940	20.7
5	256QAM	12	13	1953	1954	1952	
5	256QAM	25	0	1937	1941	1942	



Band 30_Ant 2						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	2315		
10	QPSK	1	25	2309		
10	QPSK	1	49	2302		
10	QPSK	25	0	2208		
10	QPSK	25	12	2216		
10	QPSK	25	25	2218		
10	QPSK	50	0	2214		
10	HQAM	1	0	2244		
10	HQAM	1	25	2248		
10	HQAM	1	49	2241		
10	HQAM	25	0	2108		
10	HQAM	25	12	2114		
10	HQAM	25	25	2117		
10	HQAM	50	0	2114		
10	HQAM	1	0	2120		
10	HQAM	1	25	2120		
10	HQAM	1	49	2127		
10	HQAM	25	0	2012		
10	HQAM	25	12	2020		
10	HQAM	25	25	2020		
10	HQAM	50	0	2018		
10	256QAM	1	0	1830		
10	256QAM	1	25	1834		
10	256QAM	1	49	1831		
10	256QAM	25	0	1878		
10	256QAM	25	12	1873		
10	256QAM	25	25	1875		
10	256QAM	50	0	1877		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2307.5	2310	2312.5
5	QPSK	1	0	2297	2301	2305
5	QPSK	1	12	2314	2314	2312
5	QPSK	1	24	2313	2313	2308
5	QPSK	12	0	2210	2212	2216
5	QPSK	12	12	2223	2217	2221
5	QPSK	12	12	2222	2217	2219
5	QPSK	25	0	2218	2214	2219
5	HQAM	1	0	2232	2234	2230
5	HQAM	1	12	2242	2240	2238
5	HQAM	1	24	2244	2240	2238
5	HQAM	12	0	2115	2114	2119
5	HQAM	12	7	2124	2120	2122
5	HQAM	12	13	2125	2118	2122
5	HQAM	25	0	2121	2116	2120
5	HQAM	1	0	2128	2132	2134
5	HQAM	1	12	2132	2138	2133
5	HQAM	1	24	2138	2138	2131
5	HQAM	12	0	2017	2021	2020
5	HQAM	12	7	2020	2023	2028
5	HQAM	12	13	2030	2025	2024
5	HQAM	25	0	2025	2017	2020
5	256QAM	1	0	1875	1878	1877
5	256QAM	1	12	1887	1890	1885
5	256QAM	1	24	1886	1885	1887
5	256QAM	12	0	1878	1869	1869
5	256QAM	12	7	1883	1872	1884
5	256QAM	12	13	1885	1875	1871
5	256QAM	25	0	1875	1872	1870



Band 71_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dB)		
Channel				693	693	693			
Frequency (MHz)				693	693	693			
20	QPSK	1	0	2455	2457	2459			
20	QPSK	1	49	2458	2453	2451		25.7	
20	QPSK	1	99	2451	2453	2450			
20	QPSK	61	0	2396	2396	2398			
20	QPSK	50	24	2371	2361	2361		24.7	
20	QPSK	50	50	2370	2364	2363			
20	QPSK	100	0	2370	2360	2358			
20	HQAM	1	0	2402	2392	2382			
20	HQAM	1	49	2392	2389	2385		24.7	
20	HQAM	1	99	2389	2386	2385			
20	HQAM	50	0	2270	2268	2267			
20	HQAM	50	24	2273	2265	2261			
20	HQAM	50	50	2270	2268	2264		23.7	
20	HQAM	100	0	2270	2262	2259			
20	HQAM	1	0	2284	2275	2274			
20	HQAM	1	49	2281	2269	2271		23.7	
20	HQAM	1	99	2278	2277	2276			
20	HQAM	50	0	2158	2167	2161			
20	HQAM	50	24	2173	2165	2165		22.7	
20	HQAM	50	50	2171	2166	2165			
20	HQAM	100	0	2174	2162	2162			
20	SSBQAM	1	0	1958	1950	1937			
20	SSBQAM	1	49	1941	1936	1939		20.7	
20	SSBQAM	1	99	1945	1935	1935			
20	SSBQAM	50	0	1941	1947	1944			
20	SSBQAM	50	24	1945	1944	1938			
20	SSBQAM	50	50	1940	1938	1939		20.7	
20	SSBQAM	100	0	1943	1943	1939			
Channel				133108	133108	133108		Turn-up (dB)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	2464	2457	2453			
15	QPSK	1	49	2456	2453	2452		25.7	
15	QPSK	1	74	2453	2458	2453			
15	QPSK	39	0	2388	2364	2360			
15	QPSK	39	26	2371	2368	2369		24.7	
15	QPSK	39	39	2384	2383	2381			
15	QPSK	75	0	2372	2369	2366			
15	HQAM	1	0	2401	2393	2394			
15	HQAM	1	37	2384	2390	2388		24.7	
15	HQAM	1	74	2382	2382	2384			
15	HQAM	39	0	2288	2284	2282			
15	HQAM	39	26	2271	2269	2268		23.7	
15	HQAM	39	39	2284	2282	2283			
15	HQAM	75	0	2273	2269	2267			
15	HQAM	1	0	2247	2279	2275			
15	HQAM	1	49	2263	2278	2278		23.7	
15	HQAM	1	74	2275	2283	2277			
15	HQAM	39	0	2148	2169	2163			
15	HQAM	39	26	2152	2171	2171		22.7	
15	HQAM	39	39	2168	2185	2185			
15	HQAM	75	0	2170	2170	2168			
15	SSBQAM	1	0	1949	1952	1937			
15	SSBQAM	1	37	1933	1928	1932		20.7	
15	SSBQAM	1	74	1946	1946	1939			
15	SSBQAM	39	0	1935	1941	1937			
15	SSBQAM	39	26	1932	1943	1939		20.7	
15	SSBQAM	39	39	1938	1938	1935			
15	SSBQAM	75	0	1938	1938	1931			
Channel				133112	133272	133422		Turn-up (dB)	
Frequency (MHz)				692.5	692.5	692.5			
10	QPSK	1	0	2452	2457	2449			
10	QPSK	1	25	2455	2445	2450		25.7	
10	QPSK	1	49	2452	2451	2445			
10	QPSK	25	0	2372	2358	2353			
10	QPSK	25	12	2371	2358	2359		24.7	
10	QPSK	25	25	2366	2362	2361			
10	QPSK	50	0	2371	2365	2356			
10	HQAM	1	0	2405	2391	2384			
10	HQAM	1	25	2392	2386	2389		24.7	
10	HQAM	1	49	2388	2390	2383			
10	HQAM	25	0	2272	2266	2264			
10	HQAM	25	12	2271	2267	2264		23.7	
10	HQAM	25	25	2264	2260	2261			
10	HQAM	50	0	2271	2263	2264			
10	HQAM	1	0	2254	2278	2273			
10	HQAM	1	25	2258	2270	2260		23.7	
10	HQAM	1	49	2266	2281	2271			
10	HQAM	25	0	2132	2159	2165			
10	HQAM	25	12	2133	2160	2162		22.7	
10	HQAM	25	25	2128	2165	2164			
10	HQAM	50	0	2141	2168	2157			
10	SSBQAM	1	0	1955	1957	1939			
10	SSBQAM	1	25	1938	1928	1934		20.7	
10	SSBQAM	1	49	1937	1945	1935			
10	SSBQAM	25	0	1934	1942	1937			
10	SSBQAM	25	12	1932	1935	1932		20.7	
10	SSBQAM	25	25	1940	1928	1928			
10	SSBQAM	50	0	1938	1933	1922			
Channel				133147	133297	133447		Turn-up (dB)	
Frequency (MHz)				692.5	692.5	692.5			
5	QPSK	1	0	2463	2457	2455			
5	QPSK	1	12	2461	2454	2456		25.7	
5	QPSK	1	24	2458	2454	2447			
5	QPSK	19	0	2379	2363	2364			
5	QPSK	12	7	2373	2364	2370		24.7	
5	QPSK	12	19	2368	2360	2361			
5	QPSK	24	0	2370	2364	2359			
5	HQAM	1	0	2402	2392	2389			
5	HQAM	1	12	2395	2390	2386		24.7	
5	HQAM	1	24	2389	2388	2383			
5	HQAM	12	0	2282	2268	2268			
5	HQAM	12	12	2276	2268	2270		23.7	
5	HQAM	12	19	2289	2261	2261			
5	HQAM	25	0	2273	2265	2262			
5	HQAM	1	0	2223	2260	2279			
5	HQAM	1	12	2248	2285	2281		23.7	
5	HQAM	1	24	2247	2283	2278			
5	HQAM	12	0	2164	2164	2163			
5	HQAM	12	12	2131	2167	2162		22.7	
5	HQAM	12	19	2149	2170	2173			
5	SSBQAM	1	0	1955	1952	1931			
5	SSBQAM	1	12	1937	1928	1936		20.7	
5	SSBQAM	1	24	1938	1947	1935			
5	SSBQAM	12	0	1935	1945	1934		20.7	
5	SSBQAM	12	12	1937	1938	1932			
5	SSBQAM	12	19	1936	1936	1920		20.7	
5	SSBQAM	22	0	1937	1935	1931			



Band 5_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)			
Channel										
Frequency (MHz)										
ISD										
10	QPSK	1	0	2347	2347	2348	25			
10	QPSK	1	25	2351	2356	2353				
10	QPSK	1	49	2358	2353	2345				
10	QPSK	25	0	2263	2266	2263	24			
10	QPSK	25	12	2272	2267	2262				
10	QPSK	25	25	2288	2276	2284				
10	QPSK	50	0	2272	2266	2259	24			
10	QPSK	1	0	2291	2292	2297				
10	HQAM	1	25	2292	2298	2292				
10	HQAM	1	49	2298	2293	2293	23			
10	HQAM	25	0	2159	2165	2158				
10	HQAM	25	12	2171	2167	2163				
10	HQAM	25	25	2168	2171	2162	23			
10	HQAM	50	0	2176	2184	2182				
10	HQAM	1	25	2184	2177	2181				
10	HQAM	1	25	2198	2190	2175	22			
10	HQAM	1	49	2187	2183	2177				
10	HQAM	25	0	2064	2065	2066				
10	HQAM	25	12	2077	2072	2067	20			
10	HQAM	25	25	2071	2074	2065				
10	HQAM	50	0	2073	2069	2066				
10	SSBQAM	1	0	1848	1853	1858	20			
10	SSBQAM	1	25	1853	1850	1851				
10	SSBQAM	1	49	1850	1853	1854				
10	SSBQAM	25	0	1847	1848	1845	20			
10	SSBQAM	25	12	1848	1842	1839				
10	SSBQAM	25	25	1838	1848	1848				
10	SSBQAM	50	0	1851	1849	1844	20			
Channel										
Frequency (MHz)										
ISD										
5	QPSK	1	0	2361	2362	2360	25			
5	QPSK	1	24	2366	2363	2362				
5	QPSK	1	24	2357	2359	2353				
5	QPSK	12	0	2263	2273	2265	24			
5	QPSK	12	12	2276	2274	2268				
5	QPSK	12	12	2285	2287	2287				
5	QPSK	25	0	2268	2272	2258	24			
5	HQAM	1	0	2294	2291	2293				
5	HQAM	1	12	2292	2299	2284				
5	HQAM	1	24	2294	2298	2290	23			
5	HQAM	12	0	2187	2175	2187				
5	HQAM	12	7	2171	2177	2181				
5	HQAM	12	13	2166	2169	2156	23			
5	HQAM	25	0	2172	2174	2160				
5	HQAM	1	0	2188	2195	2186				
5	HQAM	1	24	2183	2190	2178	22			
5	HQAM	1	24	2188	2191	2199				
5	HQAM	12	0	2074	2080	2055				
5	HQAM	12	7	2078	2081	2059	20			
5	HQAM	12	13	2071	2075	2028				
5	HQAM	25	0	2073	2076	2033				
5	SSBQAM	1	0	1838	1838	1838	20			
5	SSBQAM	1	12	1859	1840	1853				
5	SSBQAM	1	24	1848	1848	1848				
5	SSBQAM	12	0	1840	1844	1840	20			
5	SSBQAM	12	7	1844	1837	1836				
5	SSBQAM	12	13	1835	1836	1846				
5	SSBQAM	25	0	1843	1845	1838	20			
Channel										
Frequency (MHz)										
ISD										
3	QPSK	1	0	2339	2347	2351	25			
3	QPSK	1	8	2349	2353	2348				
3	QPSK	8	0	2351	2351	2345				
3	QPSK	8	0	2285	2288	2288	24			
3	QPSK	8	4	2288	2288	2284				
3	QPSK	8	8	2283	2285	2288				
3	QPSK	16	0	2262	2260	2250	24			
3	HQAM	1	0	2291	2292	2290				
3	HQAM	1	8	2287	2297	2286				
3	HQAM	1	14	2294	2290	2273	23			
3	HQAM	8	4	2166	2169	2167				
3	HQAM	8	4	2184	2162	2163				
3	HQAM	8	7	2161	2166	2157	23			
3	HQAM	16	0	2166	2164	2152				
3	HQAM	1	0	2185	2187	2174				
3	HQAM	1	8	2178	2183	2169	22			
3	HQAM	8	4	2076	2072	2069				
3	HQAM	8	7	2083	2072	2041				
3	HQAM	16	0	2065	2059	2059	20			
3	SSBQAM	1	0	1848	1847	1849				
3	SSBQAM	1	8	1843	1847	1851				
3	SSBQAM	1	14	1845	1863	1845	20			
3	SSBQAM	8	0	1836	1844	1836				
3	SSBQAM	8	4	1846	1837	1836				
3	SSBQAM	8	7	1834	1842	1843	20			
3	SSBQAM	16	0	1848	1844	1835				
Channel										
Frequency (MHz)										
ISD										
1.4	QPSK	1	0	2345	2352	2343	25			
1.4	QPSK	1	3	2354	2358	2348				
1.4	QPSK	1	5	2347	2351	2339				
1.4	QPSK	3	0	2353	2352	2347	24			
1.4	QPSK	3	1	2357	2352	2350				
1.4	QPSK	3	3	2353	2357	2348				
1.4	QPSK	6	0	2268	2264	2251	24			
1.4	HQAM	1	0	2279	2284	2278				
1.4	HQAM	1	5	2286	2284	2277				
1.4	HQAM	1	5	2282	2288	2272	24			
1.4	HQAM	3	0	2283	2284	2284				
1.4	HQAM	3	1	2286	2275	2280				
1.4	HQAM	3	1	2281	2283	2249	23			
1.4	HQAM	6	0	2184	2171	2158				
1.4	HQAM	1	0	2174	2175	2139				
1.4	HQAM	1	3	2184	2181	2144	23			
1.4	HQAM	1	6	2178	2182	2139				
1.4	HQAM	3	0	2178	2174	2132				
1.4	HQAM	3	1	2178	2184	2144	22			
1.4	HQAM	6	0	2173	2175	2147				
1.4	HQAM	6	0	2059	2060	2030				
1.4	SSBQAM	1	0	1846	1860	1851	20			
1.4	SSBQAM	1	3	1846	1847	1851				
1.4	SSBQAM	1	5	1842	1853	1854				
1.4	SSBQAM	3	0	1845	1847	1841	20			
1.4	SSBQAM	3	1	1839	1832	1838				
1.4	SSBQAM	3	1	1834	1839	1841				
1.4	SSBQAM	6	0	1851	1840	1842	20			
Channel										
Frequency (MHz)										
ISD										



Band 7_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (min)		
Channel				2560	2560	2560			
Frequency (MHz)				2560	2560	2560			
20	QPSK	1	0	23.87	23.84	23.99	25.5		
20	QPSK	1	49	23.93	23.99	23.94			
20	QPSK	1	99	23.99	24.08	24.02			
20	QPSK	60	0	22.07	22.02	22.02	24.5		
20	QPSK	50	24	23.10	23.09	23.08			
20	QPSK	50	50	23.11	23.16	23.13			
20	HQAM	1	0	21.27	21.30	21.29	24.5		
20	HQAM	1	49	21.29	21.38	21.36			
20	HQAM	1	99	21.33	21.40	21.34			
20	HQAM	50	0	21.08	21.04	21.02	23.5		
20	HQAM	50	24	22.10	22.10	22.06			
20	HQAM	50	50	22.13	22.17	22.14			
20	HQAM	100	0	22.08	22.07	22.03	23.5		
20	HQAM	1	49	22.04	22.11	22.05			
20	HQAM	1	99	22.10	22.26	22.21			
20	HQAM	1	99	22.24	22.32	22.27	22.5		
20	HQAM	50	0	21.08	21.08	21.05			
20	HQAM	50	24	21.12	21.11	21.08			
20	HQAM	50	50	21.15	21.21	21.15	20.5		
20	HQAM	100	0	21.12	21.05	21.07			
20	SSBQAM	1	0	19.20	19.27	19.13			
20	SSBQAM	1	49	19.20	19.16	19.22	20.5		
20	SSBQAM	1	99	19.12	19.17	19.11			
20	SSBQAM	50	0	19.12	19.12	19.07			
20	SSBQAM	50	24	19.22	19.14	19.10	20.5		
20	SSBQAM	50	50	19.17	19.16	19.13			
20	SSBQAM	100	0	19.23	19.11	19.05			
Channel				2567.5	2567.5	2567.5	Time-up (min)		
Frequency (MHz)				2567.5	2567.5	2567.5			
15	QPSK	1	0	23.83	23.84	23.95	25.5		
15	QPSK	1	49	23.86	23.90	23.85			
15	QPSK	1	74	23.97	24.04	23.94			
15	QPSK	30	0	22.95	22.98	23.00	24.5		
15	QPSK	30	20	23.08	23.04	23.04			
15	QPSK	30	39	23.08	23.13	23.09			
15	QPSK	75	0	23.02	23.01	23.01	24.5		
15	HQAM	1	0	21.23	21.30	21.29			
15	HQAM	1	39	21.24	21.36	21.30			
15	HQAM	1	74	21.31	21.34	21.34	23.5		
15	HQAM	30	0	21.88	22.04	22.01			
15	HQAM	30	20	22.10	22.02	21.97			
15	HQAM	30	39	22.10	22.09	22.14	23.5		
15	HQAM	75	0	21.98	22.05	21.94			
15	HQAM	1	0	22.07	22.08	22.06			
15	HQAM	1	74	22.14	22.25	22.17	22.5		
15	HQAM	30	0	20.95	20.98	21.02			
15	HQAM	30	20	21.03	21.02	21.06			
15	HQAM	30	39	21.12	21.21	21.05	20.5		
15	HQAM	75	0	21.99	21.05	21.00			
15	SSBQAM	1	0	19.17	19.25	19.13			
15	SSBQAM	1	39	19.16	19.12	19.19	20.5		
15	SSBQAM	1	74	19.24	19.25	19.25			
15	SSBQAM	30	0	19.04	19.12	19.04			
15	SSBQAM	30	20	19.14	19.05	19.05	20.5		
15	SSBQAM	30	39	19.15	19.14	19.08			
15	SSBQAM	75	0	19.23	19.04	19.07			
Channel				2090	2100	2100	Time-up (min)		
Frequency (MHz)				2090	2100	2100			
10	QPSK	1	0	23.89	23.92	23.99	25.5		
10	QPSK	1	25	23.93	23.90	23.84			
10	QPSK	1	49	23.96	24.01	23.96			
10	QPSK	25	0	22.91	22.99	22.97	24.5		
10	QPSK	25	12	23.07	23.06	23.00			
10	QPSK	25	25	23.03	23.09	23.03			
10	QPSK	50	0	22.99	23.06	23.01	24.5		
10	HQAM	1	0	21.17	21.24	21.26			
10	HQAM	1	25	21.27	21.34	21.35			
10	HQAM	1	49	21.31	21.39	21.31	23.5		
10	HQAM	25	0	21.02	21.09	21.05			
10	HQAM	25	12	22.07	22.08	22.06			
10	HQAM	25	25	22.08	22.10	22.07	23.5		
10	HQAM	50	0	22.02	22.04	22.00			
10	HQAM	1	0	22.00	22.13	22.10			
10	HQAM	1	25	22.06	22.16	22.18	22.5		
10	HQAM	1	49	22.14	22.31	22.25			
10	HQAM	25	0	20.91	21.02	20.96			
10	HQAM	25	12	21.04	21.04	21.02	22.5		
10	HQAM	25	25	21.08	21.14	21.09			
10	HQAM	50	0	21.19	21.05	21.02			
10	SSBQAM	1	0	19.15	19.19	19.19	20.5		
10	SSBQAM	1	25	19.20	19.07	19.22			
10	SSBQAM	1	49	19.19	19.09	19.03			
10	SSBQAM	25	0	19.03	19.05	19.06	20.5		
10	SSBQAM	25	12	19.21	19.07	19.09			
10	SSBQAM	25	25	19.16	19.08	19.08			
10	SSBQAM	50	0	19.18	19.04	19.09			
Channel				2077.5	2100	2102.5	Time-up (min)		
Frequency (MHz)				2077.5	2100	2102.5			
5	QPSK	1	0	23.84	23.83	23.90	25.5		
5	QPSK	1	12	23.93	23.93	23.88			
5	QPSK	1	24	23.89	24.02	23.95			
5	QPSK	15	0	22.96	22.93	22.99	24.5		
5	QPSK	12	7	23.09	23.02	22.96			
5	QPSK	12	15	23.11	23.14	23.13			
5	QPSK	25	0	23.04	22.98	23.01	24.5		
5	HQAM	1	0	21.17	21.23	21.19			
5	HQAM	1	12	21.25	21.33	21.30			
5	HQAM	1	24	21.32	21.34	21.34	23.5		
5	HQAM	15	0	21.04	21.08	21.06			
5	HQAM	15	15	22.10	22.15	22.14			
5	HQAM	25	0	22.00	22.07	21.95	23.5		
5	HQAM	1	0	22.01	22.10	22.09			
5	HQAM	1	12	22.10	22.21	22.15			
5	HQAM	11	24	22.19	22.31	22.19	22.5		
5	HQAM	15	0	20.91	20.99	20.99			
5	HQAM	12	7	21.07	21.02	21.03			
5	HQAM	15	15	21.08	21.17	21.08	20.5		
5	HQAM	25	0	21.04	21.02	21.07			
5	SSBQAM	1	0	19.11	19.25	19.11			
5	SSBQAM	1	12	19.25	19.06	19.15	20.5		
5	SSBQAM	1	24	19.08	19.10	19.03			
5	SSBQAM	12	0	19.08	19.06	19.06			
5	SSBQAM	15	0	19.22	19.13	19.00	20.5		
5	SSBQAM	12	15	19.12	19.07	19.13			
5	SSBQAM	22	0	19.22	19.07	19.02			



Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Turn-up (dBm)		
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
10	QPSK	1	0	2448	2458	2459			
10	QPSK	1	26	2439	2442	2440			25.7
10	QPSK	1	49	2430	2443	2448			
10	QPSK	26	0	2353	2354	2353			
10	QPSK	26	12	2340	2353	2353			24.7
10	QPSK	26	25	2338	2359	2360			
10	QPSK	50	0	2301	2353	2353			
10	QPSK	1	0	2382	2376	2378			
10	HQAM	1	26	2381	2382	2380			24.7
10	HQAM	1	49	2387	2385	2378			
10	HQAM	26	0	2254	2255	2253			
10	HQAM	26	12	2261	2255	2254			23.7
10	HQAM	26	25	2259	2260	2257			
10	HQAM	50	0	2200	2255	2252			
10	HQAM	1	0	2254	2254	2262			
10	HQAM	1	26	2271	2276	2274			23.7
10	HQAM	1	49	2273	2254	2239			
10	HQAM	26	0	2127	2136	2136			
10	HQAM	26	12	2149	2155	2158			22.7
10	HQAM	26	25	2153	2160	2161			
10	HQAM	50	0	2141	2155	2159			
10	256QAM	1	0	1947	1986	1947			20.7
10	256QAM	1	26	1953	1973	1949			
10	256QAM	1	49	1964	1955	1937			
10	256QAM	26	0	1944	1946	1940			
10	256QAM	26	12	1945	1946	1946			20.7
10	256QAM	26	25	1939	1941	1943			
10	256QAM	50	0	1951	1943	1941			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
5	QPSK	1	0	2448	2447	2439			
5	QPSK	1	26	2448	2448	2440			25.7
5	QPSK	1	24	2447	2449	2446			
5	QPSK	12	0	2362	2354	2355			
5	QPSK	12	6	2355	2359	2359			24.7
5	QPSK	12	12	2355	2354	2351			
5	QPSK	26	0	2338	2352	2352			
5	HQAM	1	0	2383	2383	2373			
5	HQAM	1	12	2380	2379	2373			24.7
5	HQAM	1	24	2382	2380	2376			
5	HQAM	12	0	2266	2262	2259			
5	HQAM	12	6	2258	2254	2254			23.7
5	HQAM	12	12	2262	2259	2254			
5	HQAM	26	0	2259	2253	2253			
5	HQAM	1	0	2224	2237	2286			
5	HQAM	1	24	2248	2274	2290			23.7
5	HQAM	1	24	2223	2273	2249			
5	HQAM	12	0	2135	2164	2160			
5	HQAM	12	6	2145	2167	2161			22.7
5	HQAM	12	12	2135	2180	2142			
5	HQAM	26	0	2111	2157	2150			
5	256QAM	1	0	1938	1936	1945			
5	256QAM	1	12	1950	1984	1939			20.7
5	256QAM	1	24	1952	1947	1954			
5	256QAM	12	0	1943	1938	1932			
5	256QAM	12	6	1938	1932	1945			20.7
5	256QAM	12	12	1938	1938	1934			
5	256QAM	26	0	1947	1933	1933			
Channel									
Frequency (MHz)									
701.5 707.5 711.5									
3	QPSK	1	0	2448	2437	2433			
3	QPSK	1	6	2434	2442	2436			25.7
3	QPSK	1	11	2443	2433	2436			
3	QPSK	6	0	2343	2354	2348			
3	QPSK	6	4	2352	2349	2351			24.7
3	QPSK	6	8	2349	2358	2351			
3	QPSK	16	0	2358	2351	2345			
3	HQAM	1	0	2376	2386	2370			
3	HQAM	1	6	2376	2379	2372			24.7
3	HQAM	1	14	2385	2383	2380			
3	HQAM	6	0	2252	2251	2249			
3	HQAM	6	4	2260	2245	2242			23.7
3	HQAM	6	7	2250	2250	2254			
3	HQAM	16	0	2267	2250	2245			
3	HQAM	1	0	2247	2255	2267			23.7
3	HQAM	1	6	2266	2272	2274			
3	HQAM	1	14	2266	2248	2233			
3	HQAM	6	0	2117	2131	2155			
3	HQAM	6	4	2140	2152	2159			22.7
3	HQAM	6	7	2147	2153	2153			
3	HQAM	16	0	2131	2149	2150			
3	256QAM	1	0	1944	1967	1941			
3	256QAM	1	6	1949	1958	1948			20.7
3	256QAM	1	14	1958	1954	1949			
3	256QAM	6	0	1943	1936	1930			
3	256QAM	6	4	1943	1939	1943			20.7
3	256QAM	6	7	1937	1941	1942			
3	256QAM	16	0	1943	1937	1939			
Channel									
Frequency (MHz)									
707.5 717.5 721.5									
1.4	QPSK	1	0	2444	2433	2436			
1.4	QPSK	1	3	2444	2442	2438			25.7
1.4	QPSK	1	5	2437	2436	2429			
1.4	QPSK	1	8	2442	2438	2437			
1.4	QPSK	3	1	2449	2442	2440			
1.4	QPSK	3	3	2443	2443	2437			24.7
1.4	QPSK	6	0	2350	2347	2343			
1.4	HQAM	1	0	2376	2367	2371			
1.4	HQAM	1	3	2378	2366	2377			24.7
1.4	HQAM	1	5	2370	2369	2363			
1.4	HQAM	3	0	2353	2347	2347			
1.4	HQAM	3	3	2366	2351	2350			23.7
1.4	HQAM	3	5	2351	2350	2343			
1.4	HQAM	6	0	2257	2256	2249			
1.4	HQAM	1	0	2234	2261	2237			
1.4	HQAM	1	3	2245	2272	2234			23.7
1.4	HQAM	1	6	2247	2263	2220			
1.4	HQAM	3	0	2228	2256	2239			
1.4	HQAM	3	1	2228	2261	2237			
1.4	HQAM	6	0	2123	2150	2123			22.7
1.4	256QAM	1	0	1938	1958	1939			
1.4	256QAM	1	3	1945	1971	1941			
1.4	256QAM	1	5	1951	1954	1953			20.7
1.4	256QAM	3	0	1943	1943	1936			
1.4	256QAM	3	3	1938	1942	1937			
1.4	256QAM	3	5	1939	1931	1938			20.7
1.4	256QAM	6	0	1949	1937	1939			



Band 13_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq
Channel						
Frequency (MHz)						
10	QPSK	1	0	2153		
10	QPSK	1	25	2151		
10	QPSK	1	49	2157		
10	QPSK	25	0	2240		
10	QPSK	25	12	2241		
10	QPSK	25	25	2245		
10	QPSK	50	0	2251		
10	QPSK	50	0	2252		
10	HQAM	1	25	2286		
10	HQAM	1	49	2288		
10	HQAM	25	0	2151		
10	HQAM	25	12	2156		
10	HQAM	25	25	2160		
10	HQAM	50	0	2194		
10	HQAM	50	0	2195		
10	HQAM	1	25	2151		
10	HQAM	1	49	2178		
10	HQAM	25	0	2095		
10	HQAM	25	12	2089		
10	HQAM	25	25	2071		
10	HQAM	50	0	2068		
10	256QAM	1	0	1825		
10	256QAM	1	25	1830		
10	256QAM	25	0	1841		
10	256QAM	25	12	1846		
10	256QAM	25	25	1859		
10	256QAM	50	0	1844		
Channel						
Frequency (MHz)						
5	QPSK	1	0	2345	2348	2322
5	QPSK	1	24	2350	2354	2334
5	QPSK	1	24	2355	2356	2331
5	QPSK	12	0	2258	2259	2232
5	QPSK	12	12	2262	2263	2240
5	QPSK	12	12	2265	2267	2238
5	QPSK	25	0	2265	2263	2237
5	HQAM	1	0	2284	2278	2250
5	HQAM	1	12	2275	2252	2249
5	HQAM	1	24	2284	2288	2251
5	HQAM	12	0	2182	2184	2136
5	HQAM	12	7	2188	2184	2143
5	HQAM	12	13	2184	2171	2142
5	HQAM	25	0	2170	2163	2141
5	HQAM	1	0	2173	2168	2142
5	HQAM	1	24	2169	2181	2148
5	HQAM	1	24	2177	2181	2148
5	HQAM	12	0	2086	2070	2045
5	HQAM	12	7	2072	2087	2045
5	HQAM	12	13	2071	2075	2045
5	HQAM	25	0	2073	2086	2042
5	256QAM	1	0	1816	1824	1822
5	256QAM	1	12	1843	1845	1847
5	256QAM	1	24	1865	1867	1856
5	256QAM	12	0	1837	1835	1838
5	256QAM	12	7	1848	1836	1840
5	256QAM	12	13	1838	1835	1854
5	256QAM	25	0	1837	1834	1841



Band 14_Ant 1						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel						
Frequency (MHz)						
10	QPSK	1	0	23.68	23.68	23.68
10	QPSK	1	49	23.68	23.68	23.68
10	QPSK	25	0	22.63	22.63	22.63
10	QPSK	25	12	22.65	22.65	22.65
10	QPSK	25	25	22.74	22.74	22.74
10	QPSK	50	0	22.97	22.97	22.97
10	HQAM	1	0	23.92	23.92	23.92
10	HQAM	1	25	22.99	22.99	22.99
10	HQAM	1	49	22.97	22.97	22.97
10	HQAM	25	0	21.85	21.85	21.85
10	HQAM	25	12	21.88	21.88	21.88
10	HQAM	25	25	21.73	21.73	21.73
10	HQAM	50	0	21.88	21.88	21.88
10	HQAM	1	0	21.90	21.90	21.90
10	HQAM	1	25	21.95	21.95	21.95
10	HQAM	1	49	21.99	21.99	21.99
10	HQAM	25	0	20.87	20.87	20.87
10	HQAM	25	12	20.89	20.89	20.89
10	HQAM	25	25	20.76	20.76	20.76
10	HQAM	50	0	20.87	20.87	20.87
10	256QAM	1	0	18.45	18.45	18.45
10	256QAM	1	25	18.58	18.58	18.58
10	256QAM	1	49	18.74	18.74	18.74
10	256QAM	25	0	18.50	18.50	18.50
10	256QAM	25	12	18.44	18.44	18.44
10	256QAM	25	25	18.47	18.47	18.47
10	256QAM	50	0	18.50	18.50	18.50
Channel						
Frequency (MHz)						
5	QPSK	1	0	23.68	23.68	23.68
5	QPSK	1	49	23.63	23.63	23.63
5	QPSK	1	24	23.65	23.64	23.58
5	QPSK	12	0	22.71	22.65	22.64
5	QPSK	12	12	22.76	22.73	22.70
5	QPSK	12	13	22.71	22.73	22.68
5	QPSK	25	0	22.89	22.86	22.83
5	HQAM	1	0	22.91	22.92	22.97
5	HQAM	1	12	23.09	23.02	22.98
5	HQAM	1	24	22.98	23.00	22.99
5	HQAM	12	0	21.73	21.68	21.64
5	HQAM	12	7	21.77	21.77	21.78
5	HQAM	12	13	21.73	21.72	21.66
5	HQAM	25	0	21.71	21.68	21.64
5	HQAM	1	0	21.87	21.89	21.85
5	HQAM	1	49	21.93	22.00	21.94
5	HQAM	1	24	21.90	21.95	21.92
5	HQAM	12	0	20.89	20.71	20.69
5	HQAM	12	7	20.78	20.83	20.75
5	HQAM	12	13	20.75	20.76	20.69
5	HQAM	25	0	20.72	20.67	20.69
5	256QAM	1	0	18.38	18.37	18.42
5	256QAM	1	12	18.55	18.48	18.55
5	256QAM	1	24	18.74	18.72	18.65
5	256QAM	12	7	18.38	18.34	18.35
5	256QAM	12	13	18.47	18.46	18.39
5	256QAM	25	0	18.40	18.47	18.44



Band 17_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Time-up (sec)
Channel				700	710	711	
Frequency (MHz)				2490	2490	2490	
10	QPSK	1	0	2335	2331	2332	25
10	QPSK	1	25	2338	2337	2337	
10	QPSK	1	49	2337	2345	2338	
10	QPSK	25	0	2238	2230	2241	24
10	QPSK	25	12	2252	2250	2248	
10	QPSK	25	25	2259	2257	2255	
10	QPSK	50	0	2247	2248	2245	24
10	16QAM	1	0	2270	2288	2289	
10	16QAM	1	25	2275	2278	2274	
10	16QAM	1	49	2278	2280	2277	23
10	16QAM	25	0	2141	2141	2141	
10	16QAM	25	12	2155	2148	2147	
10	16QAM	25	25	2157	2154	2151	23
10	16QAM	50	0	2144	2148	2142	
10	16QAM	1	0	2155	2154	2150	
10	16QAM	1	25	2157	2159	2158	22
10	16QAM	1	49	2153	2160	2148	
10	16QAM	25	0	2043	2043	2044	
10	16QAM	25	12	2059	2051	2051	20
10	16QAM	25	25	2059	2058	2058	
10	16QAM	50	0	2049	2047	2045	
10	256QAM	1	0	1834	1839	1822	20
10	256QAM	1	25	1843	1840	1841	
10	256QAM	1	49	1854	1847	1838	
10	256QAM	25	0	1831	1827	1830	20
10	256QAM	25	12	1830	1846	1834	
10	256QAM	25	25	1840	1837	1839	
10	256QAM	50	0	1827	1840	1831	
Channel				2510	2510	2510	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	2333	2328	2327	25
5	QPSK	1	25	2343	2342	2330	
5	QPSK	1	24	2343	2344	2340	
5	QPSK	12	0	2244	2246	2241	24
5	QPSK	12	12	2251	2248	2243	
5	QPSK	12	13	2253	2252	2245	
5	QPSK	25	0	2249	2247	2242	24
5	16QAM	1	0	2265	2267	2266	
5	16QAM	1	12	2274	2278	2270	
5	16QAM	1	24	2278	2278	2275	23
5	16QAM	12	0	2148	2147	2146	
5	16QAM	12	7	2153	2152	2145	
5	16QAM	12	13	2154	2152	2147	23
5	16QAM	25	0	2151	2148	2144	
5	16QAM	1	0	2157	2166	2163	
5	16QAM	1	25	2166	2170	2164	22
5	16QAM	1	24	2179	2178	2167	
5	16QAM	12	0	2050	2049	2047	
5	16QAM	12	7	2057	2055	2051	20
5	16QAM	12	13	2057	2058	2052	
5	16QAM	25	0	2051	2049	2044	
5	256QAM	1	0	1825	1831	1816	20
5	256QAM	1	12	1840	1845	1842	
5	256QAM	1	24	1852	1839	1837	
5	256QAM	12	7	1825	1833	1830	20
5	256QAM	12	13	1836	1837	1837	
5	256QAM	25	0	1820	1830	1831	



Band 26_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low	Power Middle	Power High	Turn-up			
Channel				2615	2665	2695	Time-up			
Frequency (MHz)				811.5	811.5	811.5	Time-up			
15	QPSK	1	0	2340	2340	2341	25			
15	QPSK	1	37	2340	2346	2341				
15	QPSK	1	74	2351	2348	2333				
15	QPSK	36	0	2263	2264	2257	24			
15	QPSK	36	20	2261	2263	2255				
15	QPSK	36	39	2262	2262	2254				
15	QPSK	75	0	2268	2264	2257	24			
15	QPSK	1	0	2287	2279	2278				
15	HQAM	1	37	2278	2276	2276				
15	HQAM	1	74	2274	2274	2264	23			
15	HQAM	36	0	2161	2160	2159				
15	HQAM	36	20	2164	2164	2156				
15	HQAM	36	39	2161	2162	2158	23			
15	HQAM	75	0	2198	2194	2159				
15	HQAM	1	0	2173	2174	2166				
15	HQAM	1	37	2171	2174	2168	22			
15	HQAM	1	74	2173	2168	2166				
15	HQAM	36	0	2038	2063	2065				
15	HQAM	36	20	2052	2069	2066	20			
15	HQAM	36	39	2065	2068	2048				
15	HQAM	75	0	2037	2066	2059				
15	HQAM	1	0	1864	1853	1858	20			
15	HQAM	1	37	1859	1853	1850				
15	HQAM	1	74	1850	1857	1849				
15	HQAM	36	0	1848	1850	1850	20			
15	HQAM	36	20	1848	1847	1836				
15	HQAM	36	39	1837	1841	1842				
15	HQAM	75	0	1848	1851	1839	Time-up			
Channel				815.5	815.5	815.5	Time-up			
Frequency (MHz)				819	811.5	811	Time-up			
10	QPSK	1	0	2354	2339	2345	25			
10	QPSK	1	26	2338	2340	2342				
10	QPSK	1	49	2342	2349	2329				
10	QPSK	26	0	2259	2255	2255	24			
10	QPSK	26	26	2263	2260	2250				
10	QPSK	26	26	2262	2267	2249				
10	QPSK	50	0	2264	2264	2253	24			
10	HQAM	1	0	2282	2279	2273				
10	HQAM	1	26	2276	2273	2273				
10	HQAM	1	49	2273	2271	2262	23			
10	HQAM	26	0	2167	2169	2167				
10	HQAM	26	12	2157	2158	2153				
10	HQAM	26	26	2167	2162	2154	23			
10	HQAM	50	0	2169	2163	2150				
10	HQAM	1	0	2173	2162	2168				
10	HQAM	1	26	2168	2174	2159	22			
10	HQAM	1	49	2171	2160	2168				
10	HQAM	26	0	2022	2060	2061				
10	HQAM	26	12	2044	2067	2057	20			
10	HQAM	26	26	2057	2062	2042				
10	HQAM	50	0	2062	2059	2051				
10	HQAM	1	26	1849	1847	1847	20			
10	HQAM	1	49	1841	1845	1843				
10	HQAM	26	0	1848	1845	1830				
10	HQAM	26	12	1848	1845	1830	20			
10	HQAM	26	26	1835	1840	1842				
10	HQAM	50	0	1845	1841	1837				
Channel				2675	2665	2705	Time-up			
Frequency (MHz)				811.5	811.5	811.5	Time-up			
5	QPSK	1	0	2353	2340	2347	25			
5	QPSK	1	12	2337	2344	2335				
5	QPSK	1	24	2336	2342	2339				
5	QPSK	12	0	2280	2265	2257	24			
5	QPSK	12	7	2257	2258	2253				
5	QPSK	12	14	2260	2252	2256				
5	QPSK	26	0	2262	2264	2248	24			
5	HQAM	1	0	2287	2278	2274				
5	HQAM	1	12	2273	2270	2272				
5	HQAM	1	24	2264	2267	2258	23			
5	HQAM	12	0	2167	2166	2149				
5	HQAM	12	12	2159	2161	2147				
5	HQAM	12	18	2158	2160	2153	23			
5	HQAM	26	0	2164	2164	2157				
5	HQAM	1	0	2172	2160	2163				
5	HQAM	1	12	2169	2171	2168	22			
5	HQAM	1	24	2171	2159	2168				
5	HQAM	12	0	2020	2054	2057				
5	HQAM	12	7	2046	2060	2052	20			
5	HQAM	12	15	2069	2067	2049				
5	HQAM	26	0	2065	2057	2057				
5	HQAM	1	12	1854	1848	1848	20			
5	HQAM	1	24	1859	1846	1842				
5	HQAM	1	24	1849	1858	1830				
5	HQAM	12	0	1845	1841	1836	20			
5	HQAM	12	7	1845	1839	1839				
5	HQAM	12	15	1827	1841	1838				
5	HQAM	26	0	1848	1843	1838	Time-up			
Channel				2675	2665	2705	Time-up			
Frequency (MHz)				811.5	811.5	811.5	Time-up			
3	QPSK	1	0	2347	2344	2345	25			
3	QPSK	1	8	2341	2346	2334				
3	QPSK	1	14	2351	2344	2327				
3	QPSK	8	0	2262	2259	2249	24			
3	QPSK	8	4	2262	2258	2250				
3	QPSK	8	7	2258	2258	2256				
3	QPSK	16	0	2260	2264	2251	24			
3	HQAM	1	0	2277	2277	2272				
3	HQAM	1	8	2276	2269	2270				
3	HQAM	1	14	2271	2268	2262	23			
3	HQAM	8	0	2154	2157	2156				
3	HQAM	8	4	2154	2160	2152				
3	HQAM	8	7	2151	2154	2152	23			
3	HQAM	16	0	2164	2156	2153				
3	HQAM	16	8	2165	2156	2168				
3	HQAM	1	8	2189	2173	2183	22			
3	HQAM	1	14	2173	2163	2166				
3	HQAM	8	0	2029	2058	2060				
3	HQAM	8	4	2044	2063	2053	20			
3	HQAM	8	7	2060	2060	2059				
3	HQAM	16	0	2051	2055	2058				
3	HQAM	1	0	1857	1849	1856	20			
3	HQAM	1	8	1859	1849	1848				
3	HQAM	1	14	1841	1856	1838				
3	HQAM	8	0	1844	1850	1845	20			
3	HQAM	8	4	1848	1843	1833				
3	HQAM	8	7	1835	1836	1832				
3	HQAM	16	0	1848	1846	1833	Time-up			
Channel				2675	2665	2705	Time-up			
Frequency (MHz)				814.7	811.5	811.5	Time-up			
1.4	QPSK	1	0	2357	2342	2341	25			
1.4	QPSK	1	6	2358	2354	2349				
1.4	QPSK	1	6	2353	2344	2331				
1.4	QPSK	3	0	2359	2345	2341	24			
1.4	QPSK	3	3	2357	2352	2346				
1.4	QPSK	3	3	2359	2349	2344				
1.4	QPSK	6	0	2267	2267	2246	24			
1.4	HQAM	1	0	2292	2282	2289				
1.4	HQAM	1	3	2295	2284	2274				
1.4	HQAM	3	0	2288	2274	2281	24			
1.4	HQAM	3	0	2270	2257	2249				
1.4	HQAM	3	1	2277	2262	2252				
1.4	HQAM	3	6	2268	2260	2244	23			
1.4	HQAM	6	0	2171	2185	2151				
1.4	HQAM	1	0	2144	2174	2102				
1.4	HQAM	3	0	2169	2162	2168	23			
1.4	HQAM	1	6	2144	2174	2102				
1.4	HQAM	3	0	2148	2188	2100				
1.4	HQAM	13	0	2155	2173	2108	22			
1.4	HQAM	3	3	2144	2171	2107				
1.4	HQAM	3	6	2127	2061	2050				
1.4	HQAM	1	0	1833	1851	1855	20			
1.4	HQAM	1	3	1858	1847	1850				
1.4	HQAM	3	0	1848	1848	1849				
1.4	HQAM	3	1	1838	1844	1830	20			
1.4	HQAM	3	1	1830	1835	1839				
1.4	HQAM	6	0	1844	1843	1838				



Band 30_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. F/Freq	Power Middle Ch. F/Freq	Power High Ch. F/Freq	Time-up (min)
Channel							
Frequency (MHz)							
10	QPSK	1	0	2387			25.7
10	QPSK	1	25	2388			
10	QPSK	1	49	2385			
10	QPSK	25	0	2290			24.7
10	QPSK	25	12	2294			
10	QPSK	25	25	2296			
10	16QAM	50	0	2294			24.7
10	16QAM	1	0	2321			
10	16QAM	1	25	2325			
10	16QAM	1	49	2323			23.7
10	16QAM	25	0	2188			
10	16QAM	25	12	2197			
10	16QAM	25	25	2194			23.7
10	16QAM	50	0	2193			
10	16QAM	1	0	2200			
10	16QAM	1	25	2217			22.7
10	16QAM	1	49	2202			
10	16QAM	25	0	2092			
10	16QAM	25	12	2182			20.7
10	16QAM	25	25	2095			
10	16QAM	50	0	2098			
10	256QAM	1	0	1920			20.7
10	256QAM	1	25	1923			
10	256QAM	1	49	1913			
10	256QAM	25	0	1896			20.7
10	256QAM	25	12	1906			
10	256QAM	25	25	1903			
10	256QAM	50	0	1903			
Channel							
Frequency (MHz)							
5	QPSK	1	0	2375	2379	2386	25.7
5	QPSK	1	24	2382	2386	2390	
5	QPSK	1	24	2385	2387	2379	
5	QPSK	12	0	2287	2289	2294	24.7
5	QPSK	12	0	2287	2289	2294	
5	QPSK	12	13	2289	2283	2286	
5	QPSK	25	0	2207	2204	2206	24.7
5	16QAM	1	0	2307	2310	2317	
5	16QAM	1	12	2318	2317	2319	
5	16QAM	1	24	2324	2318	2329	23.7
5	16QAM	12	0	2201	2198	2200	
5	16QAM	12	13	2201	2195	2196	
5	16QAM	25	0	2158	2154	2154	23.7
5	16QAM	1	0	2203	2208	2187	
5	16QAM	1	24	2216	2214	2197	
5	16QAM	1	24	2216	2209	2183	22.7
5	16QAM	12	0	2094	2096	2093	
5	16QAM	12	7	2105	2102	2095	
5	16QAM	12	13	2105	2095	2095	20.7
5	16QAM	25	0	2101	2100	2081	
5	256QAM	1	0	1911	1919	1916	
5	256QAM	1	12	1921	1919	1922	20.7
5	256QAM	1	24	1906	1905	1905	
5	256QAM	12	0	1833	1838	1800	
5	256QAM	12	7	1899	1908	1896	20.7
5	256QAM	12	13	1903	1893	1899	
5	256QAM	25	0	1903	1896	1901	



Band 71_Ant 1										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq	Power Middle Ch. Freq	Power High Ch. Freq	Time-up (sec)			
Channel										
Frequency (MHz)										
693 693 698										
20	QPSK	1	0	2348	2348	2337	25			
20	QPSK	1	49	2342	2341	2337				
20	QPSK	1	99	2336	2339	2338				
20	QPSK	60	0	2257	2258	2248	24			
20	QPSK	50	24	2254	2249	2248				
20	QPSK	50	50	2258	2251	2250				
20	HQAM	100	0	2251	2252	2248	24			
20	HQAM	1	0	2288	2282	2274				
20	HQAM	1	49	2277	2277	2276				
20	HQAM	1	99	2271	2272	2271	23			
20	HQAM	50	0	2159	2153	2148				
20	HQAM	50	24	2161	2161	2149				
20	HQAM	50	50	2158	2153	2150	23			
20	HQAM	100	0	2159	2148	2148				
20	HQAM	1	0	2173	2167	2163				
20	HQAM	1	49	2158	2150	2158	22			
20	HQAM	1	99	2159	2163	2160				
20	HQAM	50	0	2053	2056	2047				
20	HQAM	50	24	2083	2054	2051	20			
20	HQAM	50	50	2080	2058	2053				
20	HQAM	100	0	2081	2052	2049				
20	SSBQAM	1	0	1858	1844	1837	20			
20	SSBQAM	1	49	1857	1832	1846				
20	SSBQAM	1	99	1846	1845	1848				
20	SSBQAM	50	0	1847	1843	1830	20			
20	SSBQAM	50	24	1841	1835	1829				
20	SSBQAM	50	50	1835	1835	1827				
20	SSBQAM	100	0	1843	1838	1829	20			
Channel										
Frequency (MHz)										
670.5 680.5 690.5										
15	QPSK	1	0	2341	2348	2329	25			
15	QPSK	1	49	2340	2337	2330				
15	QPSK	1	74	2325	2330	2327				
15	QPSK	30	0	2249	2248	2241	24			
15	QPSK	30	20	2250	2245	2240				
15	QPSK	30	39	2247	2241	2244				
15	HQAM	1	0	2288	2282	2271	24			
15	HQAM	1	39	2275	2267	2268				
15	HQAM	1	74	2268	2270	2270				
15	HQAM	30	0	2153	2153	2144	23			
15	HQAM	30	20	2158	2142	2144				
15	HQAM	30	39	2148	2151	2146				
15	HQAM	75	0	2153	2141	2144	23			
15	HQAM	1	0	2168	2157	2162				
15	HQAM	1	39	2158	2151	2155				
15	HQAM	1	74	2150	2158	2160	22			
15	HQAM	30	0	2047	2049	2042				
15	HQAM	30	20	2052	2054	2050				
15	HQAM	30	39	2052	2054	2050	20			
15	HQAM	75	0	2058	2048	2049				
15	SSBQAM	1	0	1853	1840	1835				
15	SSBQAM	1	39	1852	1831	1843	20			
15	SSBQAM	1	74	1846	1835	1847				
15	SSBQAM	30	0	1843	1840	1834				
15	SSBQAM	30	20	1838	1835	1823	20			
15	SSBQAM	30	39	1838	1830	1832				
15	SSBQAM	75	0	1839	1833	1819				
Channel										
Frequency (MHz)										
13312 13322 13342										
10	QPSK	1	0	2340	2348	2335	25			
10	QPSK	1	25	2340	2338	2334				
10	QPSK	1	49	2325	2334	2334				
10	QPSK	25	0	2287	2283	2289	24			
10	QPSK	25	12	2283	2248	2247				
10	QPSK	25	25	2281	2248	2249				
10	HQAM	1	0	2248	2245	2240	24			
10	HQAM	1	0	2288	2282	2270				
10	HQAM	1	25	2287	2269	2276				
10	HQAM	1	49	2284	2282	2285	23			
10	HQAM	25	0	2152	2152	2139				
10	HQAM	25	12	2159	2151	2146				
10	HQAM	25	25	2150	2143	2148	23			
10	HQAM	50	0	2154	2148	2140				
10	HQAM	1	0	2172	2163	2155				
10	HQAM	1	25	2184	2127	2153	22			
10	HQAM	1	49	2149	2156	2159				
10	HQAM	25	0	2040	2036	2040				
10	HQAM	25	12	2052	2045	2049	20			
10	HQAM	25	25	2058	2053	2051				
10	HQAM	50	0	2058	2050	2042				
10	SSBQAM	1	0	1848	1839	1832	20			
10	SSBQAM	1	25	1847	1824	1841				
10	SSBQAM	1	49	1845	1843	1844				
10	SSBQAM	25	0	1838	1840	1832	20			
10	SSBQAM	25	12	1834	1828	1823				
10	SSBQAM	25	25	1833	1834	1823				
10	SSBQAM	50	0	1841	1838	1823	20			
Channel										
Frequency (MHz)										
692.5 670.5 690.5										
5	QPSK	1	0	2341	2345	2331	25			
5	QPSK	1	12	2338	2341	2331				
5	QPSK	1	24	2328	2338	2329				
5	QPSK	10	0	2250	2256	2238	24			
5	QPSK	12	7	2245	2243	2239				
5	QPSK	12	13	2250	2244	2248				
5	HQAM	1	0	2279	2277	2285	24			
5	HQAM	1	12	2270	2274	2267				
5	HQAM	1	24	2262	2269	2262				
5	HQAM	12	0	2149	2152	2148	23			
5	HQAM	12	13	2154	2146	2140				
5	HQAM	12	13	2149	2148	2149				
5	HQAM	25	0	2153	2139	2146	23			
5	HQAM	1	0	2173	2160	2158				
5	HQAM	1	12	2182	2188	2185				
5	HQAM	11	24	2159	2160	2159	22			
5	HQAM	12	0	2048	2047	2043				
5	HQAM	12	7	2061	2053	2049				
5	HQAM	12	13	2059	2054	2048	20			
5	HQAM	25	0	2059	2052	2047				
5	SSBQAM	1	0	1856	1838	1849				
5	SSBQAM	1	12	1857	1823	1846	20			
5	SSBQAM	1	24	1842	1841	1848				
5	SSBQAM	12	0	1847	1835	1832				
5	SSBQAM	12	13	1840	1832	1827	20			
5	SSBQAM	12	13	1830	1828	1820				
5	SSBQAM	25	0	1834	1827	1822				



Band 38_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up time (min)			
Channel				3850	3800	3850				
Frequency (MHz)				2595	2595	2595				
20	QPSK	1	0	24.68	24.63	24.52	20.7			
20	QPSK	1	49	24.69	24.64	24.52				
20	QPSK	1	98	24.68	24.64	24.52				
20	QPSK	50	0	23.07	23.70	23.69	24.7			
20	QPSK	50	24	23.06	23.72	23.68				
20	QPSK	50	50	23.07	23.70	23.69				
20	QPSK	100	0	23.88	23.71	23.68	24.7			
20	16QAM	1	0	23.81	23.74	23.67				
20	16QAM	1	49	23.79	23.72	23.61				
20	16QAM	1	99	23.81	23.69	23.61	23.7			
20	16QAM	50	0	22.91	22.76	22.73				
20	16QAM	50	24	22.90	22.75	22.70				
20	16QAM	50	50	22.90	22.72	22.68	23.7			
20	16QAM	100	0	22.89	22.74	22.70				
20	64QAM	1	0	23.57	22.41	22.42				
20	64QAM	1	49	23.53	22.46	22.38	23.7			
20	64QAM	1	99	23.58	22.39	22.42				
20	64QAM	50	0	22.49	21.78	21.79				
20	64QAM	50	24	22.05	21.77	21.70	23.7			
20	64QAM	50	50	22.62	21.74	21.70				
20	64QAM	100	0	22.70	21.74	21.70				
20	256QAM	1	0	18.77	18.78	18.81	20.7			
20	256QAM	1	49	18.70	18.68	18.59				
20	256QAM	1	99	18.73	18.67	18.64				
20	256QAM	50	0	20.07	19.98	19.97	20.7			
20	256QAM	50	24	20.02	19.92	19.91				
20	256QAM	50	50	20.01	19.83	19.87				
20	256QAM	100	0	20.03	19.92	19.91	20.7			
Channel				3760	3800	3850				
Frequency (MHz)				2377.5	2395	2412.5				
15	QPSK	1	0	24.60	24.52	24.49	25.7			
15	QPSK	1	49	24.63	24.52	24.43				
15	QPSK	1	74	24.59	24.52	24.38				
15	QPSK	36	0	23.77	23.63	23.58	24.7			
15	QPSK	36	20	23.80	23.74	23.58				
15	QPSK	36	39	23.75	23.61	23.58				
15	QPSK	75	0	23.78	23.63	23.58	24.7			
15	16QAM	1	0	23.78	23.68	23.58				
15	16QAM	1	74	23.74	23.63	23.54				
15	16QAM	36	0	22.76	22.64	22.55	23.7			
15	16QAM	36	20	22.74	22.68	22.54				
15	16QAM	36	39	22.74	22.58	22.54				
15	64QAM	75	0	22.79	22.65	22.60	23.7			
15	64QAM	1	0	22.90	22.56	22.50				
15	64QAM	1	37	22.44	22.37	22.23				
15	64QAM	1	74	22.44	22.36	22.26	23.7			
15	64QAM	36	0	21.82	21.67	21.61				
15	64QAM	36	20	21.80	21.73	21.61				
15	64QAM	36	39	21.81	21.65	21.58	22.7			
15	256QAM	1	0	19.75	19.75	19.75				
15	256QAM	1	37	19.07	19.05	19.05				
15	256QAM	1	74	19.72	19.55	19.49	20.7			
15	256QAM	36	0	19.08	18.98	18.90				
15	256QAM	36	20	19.05	18.88	18.81				
15	256QAM	36	39	18.98	18.83	18.84	20.7			
15	256QAM	75	0	19.09	19.01	19.09				
Channel				3760	3800	3850				
Frequency (MHz)				2592.5	2595	2597.5				
10	QPSK	1	0	24.63	24.61	24.42	25.7			
10	QPSK	1	25	24.61	24.55	24.41				
10	QPSK	1	49	24.67	24.63	24.43				
10	QPSK	25	0	23.74	23.59	23.62	24.7			
10	QPSK	25	12	23.75	23.69	23.51				
10	QPSK	25	24	23.74	23.68	23.51				
10	QPSK	50	0	23.75	23.61	23.53	24.7			
10	16QAM	1	0	23.81	23.68	23.52				
10	16QAM	1	25	23.72	23.64	23.51				
10	16QAM	1	49	23.79	23.68	23.47	23.7			
10	16QAM	25	0	22.74	22.59	22.53				
10	16QAM	25	12	22.76	22.72	22.58				
10	16QAM	25	24	22.74	22.67	22.48	23.7			
10	16QAM	50	0	22.78	22.65	22.56				
10	64QAM	1	0	22.97	22.39	22.32				
10	64QAM	1	49	22.94	22.43	22.31	23.7			
10	64QAM	25	0	21.81	21.67	21.61				
10	64QAM	25	12	21.83	21.75	21.63				
10	64QAM	25	24	21.82	21.78	21.60	22.7			
10	64QAM	50	0	21.78	21.66	21.67				
10	256QAM	1	0	19.09	19.72	19.79				
10	256QAM	1	25	19.05	19.59	19.58	20.7			
10	256QAM	1	49	19.09	19.52	19.48				
10	256QAM	25	0	19.08	19.59	19.51				
10	256QAM	25	12	19.04	19.51	19.50	20.7			
10	256QAM	25	24	19.01	19.76	19.62				
10	256QAM	50	0	20.01	19.84	19.88				
Channel				3760	3800	3850				
Frequency (MHz)				2592.5	2595	2597.5				
5	QPSK	1	0	24.58	24.53	24.37	25.7			
5	QPSK	1	12	24.54	24.49	24.35				
5	QPSK	1	24	24.59	24.52	24.33				
5	QPSK	12	0	23.68	23.64	23.44	24.7			
5	QPSK	12	7	23.72	23.64	23.50				
5	QPSK	12	13	23.71	23.66	23.49				
5	QPSK	25	0	23.72	23.65	23.45	24.7			
5	16QAM	1	0	23.72	23.67	23.62				
5	16QAM	1	12	23.75	23.68	23.50				
5	16QAM	1	24	23.75	23.68	23.52	24.7			
5	16QAM	12	0	22.67	22.60	22.46				
5	16QAM	12	7	22.72	22.66	22.47				
5	16QAM	12	13	22.67	22.62	22.45	23.7			
5	16QAM	25	0	22.73	22.68	22.52				
5	64QAM	1	0	22.51	22.44	22.25				
5	64QAM	1	12	22.54	22.44	22.30	23.7			
5	64QAM	1	24	22.54	22.49	22.28				
5	64QAM	12	0	21.78	21.71	21.53				
5	64QAM	12	7	21.77	21.70	21.55	22.7			
5	64QAM	12	13	21.76	21.70	21.51				
5	64QAM	25	0	21.79	21.70	21.55				
5	256QAM	1	0	18.67	19.77	19.81	20.7			
5	256QAM	1	12	19.04	19.63	19.56				
5	256QAM	1	24	19.72	19.55	19.49				
5	256QAM	12	0	20.00	19.99	19.87	20.7			
5	256QAM	12	7	19.07	19.05	19.53				
5	256QAM	12	13	19.99	19.80	19.77				
5	256QAM	25	0	19.98	19.87	19.82	20.7			



Band 48_Ant 7											
BW (MHz)	Modulation	RB Size	RB Offset	Power Cn / Freq	Power Low Mid Hg Ch / Freq	Power High Mid Hg Ch / Freq	Power High Ch / Freq	Time-up time (dBm)			
Channel				5640	5680	5680	5660				
Frequency (MHz)				5640	5680	5680	5660				
20	QPSK	1	0	24.12	24.37	24.52	24.44				
20	QPSK	1	49	24.04	24.21	24.31	24.22	25.7			
20	QPSK	1	98	24.05	24.25	24.24	24.14				
20	QPSK	50	0	23.22	23.42	23.53	23.47				
20	QPSK	50	24	23.10	23.40	23.48	23.42	24.7			
20	QPSK	50	50	23.13	23.33	23.34	23.24				
20	QPSK	100	0	23.17	23.37	23.48	23.40				
20	16QAM	1	0	23.52	23.45	23.55	23.52	24.7			
20	16QAM	1	49	23.11	23.20	23.41	23.31				
20	16QAM	1	98	23.13	23.23	23.57	23.28				
20	16QAM	50	0	23.24	23.44	23.57	23.50	25.7			
20	16QAM	50	24	23.21	23.42	23.53	23.44				
20	16QAM	50	50	22.76	23.13	23.21	23.07				
20	16QAM	100	0	22.18	22.41	22.49	22.40				
20	64QAM	1	0	21.09	22.14	22.35	22.28	23.7			
20	64QAM	1	49	21.85	22.07	22.17	22.08				
20	64QAM	1	98	21.92	22.08	22.07	21.95				
20	64QAM	50	0	21.26	21.47	21.57	21.50	22.7			
20	64QAM	50	24	21.22	21.44	21.52	21.42				
20	64QAM	50	50	21.16	21.38	21.38	21.29				
20	64QAM	100	0	21.18	21.40	21.50	21.42				
20	256QAM	1	0	19.23	19.31	19.59	19.41	20.7			
20	256QAM	1	49	19.18	19.33	19.49	19.30				
20	256QAM	1	98	19.30	19.35	19.56	19.37				
20	256QAM	50	0	19.52	19.64	19.60	19.64	20.7			
20	256QAM	50	24	19.52	19.65	19.64	19.56				
20	256QAM	50	50	19.54	19.65	19.77	19.61				
20	256QAM	100	0	19.47	19.64	19.77	19.63	20.7			
Channel				5650	5680	5680	5660				
Frequency (MHz)				5650	5680	5680	5660				
15	QPSK	1	0	24.05	24.28	24.40	24.34	25.7			
15	QPSK	1	49	23.07	24.26	24.30	24.20				
15	QPSK	1	74	23.99	24.21	24.29	24.17				
15	QPSK	36	0	23.16	23.38	23.50	23.44	24.7			
15	QPSK	36	20	23.12	23.36	23.46	23.36				
15	QPSK	36	39	23.09	23.32	23.34	23.31				
15	QPSK	0	0	23.13	23.37	23.49	23.40	24.7			
15	16QAM	1	0	23.20	23.43	23.55	23.48				
15	16QAM	1	37	23.05	23.24	23.33	23.24	23.7			
15	16QAM	1	74	23.20	23.35	23.45	23.31				
15	16QAM	36	0	22.14	22.37	22.48	22.37	25.7			
15	16QAM	36	20	22.10	22.32	22.42	22.33				
15	16QAM	36	39	22.07	22.29	22.30	22.29				
15	16QAM	75	0	22.18	22.38	22.47	22.38	23.7			
15	64QAM	1	0	21.02	22.08	22.28	22.21	22.7			
15	64QAM	1	37	21.83	22.04	22.15	22.08				
15	64QAM	1	74	21.86	22.04	22.14	22.05				
15	64QAM	36	0	21.21	21.41	21.53	21.48	20.7			
15	64QAM	36	20	21.16	21.40	21.49	21.37				
15	64QAM	36	39	21.12	21.35	21.38	21.33				
15	64QAM	75	0	21.18	21.41	21.49	21.39	20.7			
15	256QAM	1	0	19.24	19.24	19.45	19.25				
15	256QAM	1	37	19.09	19.24	19.41	19.25				
15	256QAM	1	74	19.24	19.49	19.58	19.39	20.7			
15	256QAM	36	0	19.47	19.58	19.71	19.63				
15	256QAM	36	20	19.52	19.64	19.76	19.60				
15	256QAM	36	39	19.52	19.60	19.77	19.61	20.7			
15	256QAM	75	0	19.48	19.58	19.72	19.58				
Channel				5660	5680	5680	5660				
Frequency (MHz)				5660	5680	5680	5660				
10	QPSK	1	0	23.05	24.26	24.38	24.30	25.7			
10	QPSK	1	25	23.89	24.10	24.28	24.16				
10	QPSK	1	49	23.03	24.26	24.19	24.15				
10	QPSK	25	0	23.13	23.31	23.40	23.37	24.7			
10	QPSK	25	12	23.07	23.30	23.44	23.27				
10	QPSK	25	24	23.00	23.26	23.33	23.25				
10	QPSK	50	0	23.06	23.32	23.45	23.31				
10	16QAM	1	0	23.16	23.37	23.52	23.40	24.7			
10	16QAM	1	26	22.94	23.18	23.31	23.22				
10	16QAM	1	49	23.15	23.34	23.37	23.22				
10	16QAM	25	0	22.09	22.30	22.45	22.32	23.7			
10	16QAM	25	12	22.09	22.25	22.37	22.32				
10	16QAM	25	24	22.04	22.25	22.27	22.19				
10	16QAM	50	0	22.08	22.31	22.39	22.30				
10	64QAM	1	0	21.83	22.08	22.18	22.13	23.7			
10	64QAM	1	26	21.76	21.99	22.13	21.98				
10	64QAM	1	49	21.83	22.09	22.10	21.97				
10	64QAM	25	0	21.14	21.41	21.48	21.41	22.7			
10	64QAM	25	12	21.15	21.33	21.42	21.35				
10	64QAM	25	24	21.12	21.34	21.30	21.25				
10	64QAM	50	0	21.14	21.36	21.44	21.31				
10	256QAM	1	0	19.21	19.26	19.59	19.34	20.7			
10	256QAM	1	25	19.13	19.32	19.43	19.29				
10	256QAM	1	49	19.21	19.31	19.53	19.32				
10	256QAM	25	0	19.52	19.59	19.74	19.63	20.7			
10	256QAM	25	12	19.51	19.69	19.77	19.53				
10	256QAM	25	24	19.48	19.65	19.76	19.58				
10	256QAM	50	0	19.39	19.58	19.74	19.62	20.7			
Channel				5670	5680	5680	5670				
Frequency (MHz)				5670	5680	5680	5670				
5	QPSK	1	0	24.05	24.18	24.33	24.31	25.7			
5	QPSK	1	14	23.04	24.15	24.22	24.19				
5	QPSK	1	24	23.03	24.14	24.25	24.19				
5	QPSK	12	0	23.09	23.26	23.45	23.40	24.7			
5	QPSK	12	7	23.04	23.23	23.35	23.28				
5	QPSK	12	13	23.07	23.31	23.33	23.22				
5	QPSK	25	0	23.15	23.33	23.41	23.38	24.7			
5	16QAM	1	0	23.18	23.35	23.64	23.40				
5	16QAM	1	12	22.96	23.22	23.30	23.18	24.7			
5	16QAM	1	24	23.13	23.30	23.39	23.29				
5	16QAM	12	0	22.08	22.27	22.40	22.32	23.7			
5	16QAM	12	7	22.06	22.26	22.43	22.27				
5	16QAM	12	13	21.98	22.25	22.34	22.20				
5	16QAM	25	0	22.18	22.38	22.38	22.28				
5	64QAM	1	0	21.91	22.01	22.17	22.12	23.7			
5	64QAM	1	12	21.74	22.01	22.05	22.06				
5	64QAM	1	24	21.80	22.13	22.08	21.91				
5	64QAM	12	0	21.15	21.33	21.40	21.41	22.7			
5	64QAM	12	7	21.07	21.35	21.49	21.31				
5	64QAM	12	13	21.12	21.34	21.20	21.08				
5	64QAM	25	0	21.11	21.40	21.49	21.33				
5	256QAM	1	0	19.14	19.26	19.52	19.34	20.7			
5	256QAM	1	12	19.15	19.32	19.49	19.29				
5	256QAM	1	24	19.25	19.45	19.59	19.27				
5	256QAM	12	0	19.50	19.59	19.74	19.59	20.7			
5	256QAM	12	7	19.52	19.65	19.77	19.62				
5	256QAM	12	13	19.45	19.62	19.70	19.59				
5	256QAM	25	0	19.37	19.61	19.68	19.61	20.7			



Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq.			
Channel				3850	3800	3850				
Frequency (MHz)				2590	2590	2590				
20	QPSK	1	0	2342	2333	2325	20.2			
20	QPSK	1	49	2342	2336	2327				
20	QPSK	1	99	2342	2338	2329				
20	QPSK	50	0	2259	2242	2240	24.2			
20	QPSK	50	24	2255	2242	2241				
20	QPSK	50	50	2255	2242	2240				
20	QPSK	100	0	2259	2241	2242	24.2			
20	16QAM	1	0	2257	2248	2249				
20	16QAM	1	49	2252	2248	2237				
20	16QAM	1	99	2257	2247	2244	20.2			
20	16QAM	50	0	2142	2145	2144				
20	16QAM	50	24	2159	2144	2144				
20	16QAM	50	50	2150	2144	2145	20.2			
20	16QAM	100	0	2159	2144	2144				
20	64QAM	1	0	2128	2122	2122				
20	64QAM	1	49	2133	2128	2125	20.2			
20	64QAM	1	99	2137	2129	2129				
20	64QAM	50	0	2045	2044	2044				
20	64QAM	50	24	2053	2047	2045	20.2			
20	64QAM	50	50	2059	2045	2044				
20	64QAM	100	0	2050	2045	2044				
20	256QAM	1	0	1846	1838	1836	20.2			
20	256QAM	1	49	1835	1826	1827				
20	256QAM	1	99	1834	1828	1824				
20	256QAM	50	0	1871	1852	1850	20.2			
20	256QAM	50	24	1856	1851	1851				
20	256QAM	50	50	1843	1839	1833				
20	256QAM	100	0	1842	1847	1846	20.2			
Channel				3850	3800	3850				
Frequency (MHz)				2177.5	2169	2172.5				
15	QPSK	1	0	2138	2128	2121	20.2			
15	QPSK	1	49	2140	2134	2127				
15	QPSK	1	74	2134	2123	2127				
15	QPSK	36	0	2256	2236	2234	24.2			
15	QPSK	36	20	2252	2239	2239				
15	QPSK	36	39	2246	2242	2230				
15	QPSK	75	0	2249	2231	2240	24.2			
15	16QAM	1	0	2247	2245	2234				
15	16QAM	1	37	2242	2242	2237				
15	16QAM	1	74	2254	2239	2237	20.2			
15	16QAM	36	0	2159	2141	2144				
15	16QAM	36	20	2148	2137	2141				
15	16QAM	36	39	2158	2137	2139	20.2			
15	16QAM	75	0	2151	2144	2138				
15	64QAM	1	0	2125	2129	2121				
15	64QAM	1	37	2131	2123	2122	20.2			
15	64QAM	1	74	2132	2129	2123				
15	64QAM	36	0	2057	2044	2040				
15	64QAM	36	20	2051	2043	2037	20.2			
15	64QAM	36	39	2050	2045	2037				
15	64QAM	75	0	2054	2037	2039				
15	256QAM	1	0	1839	1837	1837	20.2			
15	256QAM	1	37	1831	1825	1825				
15	256QAM	1	74	1832	1823	1823				
15	256QAM	36	0	1843	1842	1846	20.2			
15	256QAM	36	20	1843	1847	1835				
15	256QAM	36	39	1853	1838	1831				
15	256QAM	75	0	1841	1847	1838	20.2			
Channel				3850	3800	3850				
Frequency (MHz)				2592	2592	2592				
10	QPSK	1	0	2338	2327	2321	20.2			
10	QPSK	1	25	2334	2334	2327				
10	QPSK	1	49	2331	2328	2324				
10	QPSK	25	0	2255	2241	2236	24.2			
10	QPSK	25	12	2253	2239	2233				
10	QPSK	25	24	2253	2239	2233				
10	QPSK	50	0	2251	2236	2236	24.2			
10	16QAM	1	0	2247	2238	2231				
10	16QAM	1	26	2244	2239	2237				
10	16QAM	1	49	2254	2246	2234	20.2			
10	16QAM	25	0	2159	2143	2142				
10	16QAM	25	12	2155	2139	2134				
10	16QAM	25	26	2153	2144	2144	20.2			
10	16QAM	50	0	2152	2145	2142				
10	64QAM	1	0	2127	2122	2122				
10	64QAM	1	26	2127	2122	2122	20.2			
10	64QAM	1	49	2133	2121	2123				
10	64QAM	25	0	2052	2041	2039				
10	64QAM	25	12	2058	2042	2035	20.2			
10	64QAM	25	26	2052	2042	2038				
10	64QAM	50	0	2055	2036	2037				
10	256QAM	1	0	1839	1831	1832	20.2			
10	256QAM	1	25	1838	1824	1821				
10	256QAM	1	49	1831	1824	1822				
10	256QAM	25	0	1834	1842	1846	20.2			
10	256QAM	25	12	1834	1843	1835				
10	256QAM	25	26	1836	1830	1824				
10	256QAM	50	0	1838	1841	1845	20.2			
Channel				3850	3800	3850				
Frequency (MHz)				2592.5	2592	2592.5				
5	QPSK	1	0	2339	2324	2325	20.2			
5	QPSK	1	14	2341	2329	2329				
5	QPSK	1	24	2332	2321	2321				
5	QPSK	12	0	2256	2234	2231	24.2			
5	QPSK	12	7	2248	2235	2235				
5	QPSK	12	13	2245	2232	2238				
5	QPSK	25	0	2253	2241	2237	24.2			
5	16QAM	1	0	2247	2242	2238				
5	16QAM	1	12	2244	2244	2239				
5	16QAM	1	24	2254	2245	2239	20.2			
5	16QAM	12	0	2154	2143	2137				
5	16QAM	12	7	2159	2139	2144				
5	16QAM	12	13	2159	2143	2139	20.2			
5	16QAM	25	0	2159	2140	2134				
5	64QAM	1	0	2130	2129	2122				
5	64QAM	1	12	2131	2123	2123	20.2			
5	64QAM	1	24	2130	2123	2121				
5	64QAM	12	0	2054	2035	2038				
5	64QAM	12	7	2056	2037	2035	20.2			
5	64QAM	12	13	2053	2046	2038				
5	64QAM	25	0	2040	2035	2042				
5	256QAM	1	0	1845	1837	1834	20.2			
5	256QAM	1	12	1838	1824	1827				
5	256QAM	1	24	1838	1820	1822				
5	256QAM	12	0	1843	1851	1846	20.2			
5	256QAM	12	7	1843	1842	1842				
5	256QAM	12	13	1836	1839	1827				
5	256QAM	25	0	1832	1829	1846	20.2			



Table with columns: BW (MHz), Modulation, RB Spacing, RB Offset, Power (Ch / Freq), and Time-up (min). Multiple sections for different channels (e.g., 5540, 5600, 5650, 5690, 5750, 5810, 5860, 5920) and various modulation schemes (QPSK, 16QAM, 64QAM, 256QAM) across different bandwidths (5, 10, 15, 20, 25 MHz).



Band 38_Ant 2										
BW (MHz)	Modulation	RB Start	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq			
Channel				3850	3800	3850				
Frequency (MHz)				2595	2595	2595				
20	QPSK	1	0	24.68	24.63	24.52	25.7			
20	QPSK	1	49	24.69	24.64	24.52				
20	QPSK	1	99	24.68	24.64	24.52				
20	QPSK	50	0	23.87	23.70	23.69	24.7			
20	QPSK	50	24	23.86	23.72	23.69				
20	QPSK	50	50	23.87	23.70	23.69				
20	QPSK	100	0	23.88	23.71	23.69	24.7			
20	16QAM	1	0	23.81	23.74	23.67				
20	16QAM	1	49	23.79	23.72	23.61				
20	16QAM	1	99	23.81	23.69	23.61	23.7			
20	16QAM	50	0	22.91	22.76	22.73				
20	16QAM	50	24	22.90	22.75	22.70				
20	16QAM	50	50	22.91	22.72	22.68	23.7			
20	16QAM	100	0	22.89	22.74	22.70				
20	64QAM	1	0	23.57	22.41	22.42				
20	64QAM	1	49	23.53	22.46	22.38	23.7			
20	64QAM	1	99	23.58	22.39	22.42				
20	64QAM	50	0	22.49	21.78	21.79				
20	64QAM	50	24	22.05	21.77	21.70	23.7			
20	64QAM	50	50	22.62	21.74	21.70				
20	64QAM	100	0	22.70	21.74	21.70				
20	256QAM	1	0	18.77	18.78	18.81	20.7			
20	256QAM	1	49	18.70	18.68	18.59				
20	256QAM	1	99	18.73	18.67	18.64				
20	256QAM	50	0	20.07	19.98	19.97	20.7			
20	256QAM	50	24	20.02	19.92	19.91				
20	256QAM	50	50	20.01	19.83	19.87				
20	256QAM	100	0	20.03	19.92	19.91	20.7			
Channel				3777.5	3795	3812.5				
Frequency (MHz)				2577.5	2595	2612.5		Take-up freq		
15	QPSK	1	0	24.60	24.52	24.49	25.7			
15	QPSK	1	49	24.63	24.52	24.43				
15	QPSK	1	74	24.59	24.52	24.38				
15	QPSK	36	0	23.77	23.63	23.58	24.7			
15	QPSK	36	20	23.80	23.74	23.58				
15	QPSK	36	39	23.75	23.61	23.58				
15	QPSK	75	0	23.78	23.63	23.58	24.7			
15	16QAM	1	0	23.78	23.68	23.58				
15	16QAM	1	74	23.74	23.63	23.54				
15	16QAM	36	0	22.78	22.64	22.55	23.7			
15	16QAM	36	20	22.74	22.68	22.54				
15	16QAM	36	39	22.74	22.58	22.54				
15	16QAM	75	0	22.79	22.65	22.60	23.7			
15	64QAM	1	0	22.90	22.56	22.50				
15	64QAM	1	37	22.44	22.37	22.23				
15	64QAM	1	74	22.44	22.36	22.26	23.7			
15	64QAM	36	0	21.82	21.67	21.61				
15	64QAM	36	20	21.80	21.73	21.61				
15	64QAM	36	39	21.81	21.65	21.58	22.7			
15	64QAM	75	0	21.81	21.65	21.61				
15	256QAM	1	0	19.75	19.75	19.75		20.7		
15	256QAM	1	37	19.07	19.05	19.05				
15	256QAM	1	74	19.72	19.55	19.49				
15	256QAM	36	0	19.08	18.98	18.90	20.7			
15	256QAM	36	20	19.05	18.88	18.81				
15	256QAM	36	39	19.08	18.83	18.84				
15	256QAM	75	0	19.09	18.91	18.89	20.7			
Channel				3780	3800	3820				
Frequency (MHz)				2577.5	3800	3820		Take-up freq		
10	QPSK	1	0	24.63	24.61	24.42	25.7			
10	QPSK	1	25	24.61	24.55	24.41				
10	QPSK	1	49	24.67	24.63	24.43				
10	QPSK	25	0	23.74	23.59	23.62	24.7			
10	QPSK	25	12	23.75	23.69	23.51				
10	QPSK	25	24	23.74	23.68	23.51				
10	QPSK	50	0	23.75	23.61	23.53	24.7			
10	16QAM	1	0	23.81	23.68	23.52				
10	16QAM	1	25	23.72	23.64	23.51				
10	16QAM	1	49	23.79	23.68	23.47	23.7			
10	16QAM	25	0	22.74	22.59	22.53				
10	16QAM	25	12	22.76	22.72	22.58				
10	16QAM	25	24	22.74	22.67	22.48	23.7			
10	16QAM	50	0	22.78	22.65	22.56				
10	64QAM	1	0	22.97	22.39	22.32				
10	64QAM	1	25	22.54	22.43	22.31	23.7			
10	64QAM	1	49	22.50	22.39	22.30				
10	64QAM	25	0	21.81	21.67	21.61				
10	64QAM	25	12	21.83	21.75	21.63	22.7			
10	64QAM	25	24	21.82	21.78	21.60				
10	64QAM	50	0	21.78	21.66	21.67				
10	256QAM	1	0	19.09	19.72	19.79	20.7			
10	256QAM	1	25	19.05	19.05	19.08				
10	256QAM	1	49	19.09	19.02	19.04				
10	256QAM	25	0	19.08	18.99	19.01	20.7			
10	256QAM	25	12	19.04	18.83	18.86				
10	256QAM	25	24	19.01	18.76	18.82				
10	256QAM	50	0	20.01	19.84	19.88	20.7			
Channel				2577.5	2595	2612.5				
Frequency (MHz)				2577.5 <th>2595<th>2612.5</th><th>Take-up freq</th><th colspan="2"></th></th>	2595 <th>2612.5</th> <th>Take-up freq</th> <th colspan="2"></th>	2612.5		Take-up freq		
5	QPSK	1	0	24.58	24.53	24.37	25.7			
5	QPSK	1	14	24.54	24.49	24.35				
5	QPSK	1	24	24.59	24.52	24.33				
5	QPSK	12	0	23.68	23.49	23.44	24.7			
5	QPSK	12	7	23.72	23.64	23.50				
5	QPSK	12	13	23.71	23.66	23.49				
5	QPSK	25	0	23.72	23.65	23.45	24.7			
5	16QAM	1	0	23.72	23.67	23.62				
5	16QAM	1	12	23.75	23.68	23.50				
5	16QAM	1	24	23.75	23.68	23.52	23.7			
5	16QAM	12	0	22.67	22.60	22.46				
5	16QAM	12	7	22.72	22.66	22.47				
5	16QAM	12	13	22.67	22.62	22.45	23.7			
5	16QAM	25	0	22.73	22.68	22.52				
5	64QAM	1	0	22.91	22.44	22.25				
5	64QAM	1	12	22.54	22.44	22.30	23.7			
5	64QAM	1	24	22.64	22.49	22.28				
5	64QAM	12	0	21.78	21.71	21.53				
5	64QAM	12	7	21.77	21.70	21.55	22.7			
5	64QAM	12	13	21.76	21.70	21.51				
5	64QAM	25	0	21.79	21.70	21.55				
5	256QAM	1	0	18.67	19.77	19.81	20.7			
5	256QAM	1	12	19.04	19.03	19.06				
5	256QAM	1	24	19.72	19.05	19.49				
5	256QAM	12	0	20.00	19.99	19.97	20.7			
5	256QAM	12	7	19.07	19.05	19.03				
5	256QAM	12	13	19.09	19.80	19.77				
5	256QAM	25	0	19.06	19.87	19.82	20.7			



Band 48_Ant 7									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Max Ch / Freq	Time-up time (min)	
Channel				5640	5680	5720	5660		
Frequency (MHz)				3610	3650	3691	3650		
20	QPSK	1	0	24.12	24.37	24.52	24.44	25.7	
20	QPSK	1	49	24.04	24.21	24.31	24.22		
20	QPSK	1	98	24.05	24.23	24.24	24.14		
20	QPSK	50	0	23.22	23.42	23.53	23.47		
20	QPSK	50	24	23.10	23.40	23.48	23.42	24.7	
20	QPSK	50	50	23.13	23.33	23.34	23.24		
20	QPSK	100	0	23.17	23.37	23.48	23.40		
20	16QAM	1	0	23.52	23.65	23.85	23.82		
20	16QAM	1	49	23.11	23.20	23.41	23.31	24.7	
20	16QAM	1	98	23.13	23.23	23.57	23.28		
20	16QAM	50	0	23.24	23.44	23.57	23.50		
20	16QAM	50	24	22.21	22.42	22.53	22.44		
20	16QAM	50	50	22.16	22.31	22.31	22.27	23.7	
20	16QAM	100	0	22.18	22.41	22.49	22.40		
20	64QAM	1	0	21.89	22.14	22.35	22.28		
20	64QAM	1	49	21.85	22.07	22.17	22.08		
20	64QAM	1	98	21.92	22.08	22.07	21.95	23.7	
20	64QAM	50	0	21.26	21.47	21.57	21.50		
20	64QAM	50	24	21.22	21.44	21.52	21.42		
20	64QAM	50	50	21.16	21.38	21.38	21.29		
20	64QAM	100	0	21.18	21.40	21.50	21.42	22.7	
20	256QAM	1	0	19.23	19.31	19.55	19.41		
20	256QAM	1	49	19.18	19.33	19.49	19.30		
20	256QAM	1	98	19.30	19.36	19.56	19.37		
20	256QAM	50	0	19.52	19.64	19.80	19.64	20.7	
20	256QAM	50	24	19.52	19.65	19.84	19.65		
20	256QAM	50	50	19.54	19.65	19.77	19.61		
20	256QAM	100	0	19.47	19.64	19.77	19.63		
Channel				3675	3695	3722	3692		
Frequency (MHz)				3675	3695	3722	3692		
15	QPSK	1	0	24.05	24.28	24.40	24.34	25.7	
15	QPSK	1	49	23.07	24.10	24.30	24.17		
15	QPSK	1	74	23.59	24.21	24.29	24.17		
15	QPSK	36	0	23.18	23.38	23.50	23.44		
15	QPSK	36	20	23.12	23.36	23.46	23.38	24.7	
15	QPSK	36	39	23.09	23.32	23.34	23.31		
15	QPSK	1	0	23.13	23.37	23.49	23.40		
15	16QAM	1	0	23.20	23.43	23.55	23.48		
15	16QAM	1	39	23.05	23.24	23.33	23.25	24.7	
15	16QAM	1	74	23.20	23.35	23.45	23.31		
15	16QAM	36	0	22.14	22.37	22.48	22.37		
15	16QAM	36	20	22.10	22.32	22.42	22.33		
15	16QAM	36	39	22.07	22.29	22.30	22.29	23.7	
15	16QAM	75	0	22.18	22.38	22.47	22.38		
15	64QAM	1	0	21.02	22.08	22.28	22.21		
15	64QAM	1	37	21.83	22.04	22.15	22.08		
15	64QAM	1	74	21.86	22.04	22.14	22.05	23.7	
15	64QAM	36	0	21.21	21.41	21.53	21.48		
15	64QAM	36	20	21.16	21.40	21.49	21.37		
15	64QAM	36	39	21.12	21.35	21.38	21.33		
15	64QAM	75	0	21.18	21.41	21.49	21.39	22.7	
15	256QAM	1	0	19.24	19.24	19.45	19.30		
15	256QAM	1	37	19.09	19.24	19.41	19.25		
15	256QAM	1	74	19.24	19.49	19.58	19.39		
15	256QAM	36	0	19.47	19.58	19.71	19.63	20.7	
15	256QAM	36	20	19.52	19.64	19.76	19.60		
15	256QAM	36	39	19.52	19.60	19.77	19.61		
15	256QAM	75	0	19.48	19.56	19.72	19.58		
Channel				3690	3695	3716	3696		
Frequency (MHz)				3690	3695	3716	3696		
10	QPSK	1	0	23.05	24.25	24.35	24.30	25.7	
10	QPSK	1	25	23.89	24.10	24.28	24.16		
10	QPSK	1	49	23.03	24.20	24.19	24.15		
10	QPSK	25	0	23.13	23.31	23.40	23.37		
10	QPSK	25	12	23.10	23.30	23.44	23.27	24.7	
10	QPSK	25	24	23.00	23.38	23.53	23.25		
10	QPSK	50	0	23.06	23.32	23.45	23.31		
10	16QAM	1	0	23.18	23.37	23.52	23.40		
10	16QAM	1	26	22.94	23.18	23.31	23.22	24.7	
10	16QAM	1	49	23.15	23.34	23.37	23.22		
10	16QAM	25	0	22.09	22.30	22.45	22.32		
10	16QAM	25	12	22.09	22.25	22.37	22.32		
10	16QAM	25	24	22.04	22.25	22.27	22.19	23.7	
10	16QAM	50	0	22.08	22.31	22.39	22.30		
10	64QAM	1	0	21.83	22.08	22.18	22.13		
10	64QAM	1	26	21.76	21.99	22.13	21.98		
10	64QAM	1	49	21.83	22.09	22.10	21.97	23.7	
10	64QAM	25	0	21.14	21.41	21.48	21.41		
10	64QAM	25	12	21.15	21.33	21.42	21.35		
10	64QAM	25	24	21.12	21.34	21.30	21.25		
10	64QAM	50	0	21.14	21.36	21.44	21.31	22.7	
10	256QAM	1	0	19.21	19.25	19.59	19.34		
10	256QAM	1	25	19.13	19.32	19.43	19.29		
10	256QAM	1	49	19.21	19.31	19.53	19.32		
10	256QAM	25	0	19.52	19.59	19.74	19.63	20.7	
10	256QAM	25	12	19.51	19.69	19.77	19.53		
10	256QAM	25	24	19.48	19.65	19.76	19.58		
10	256QAM	50	0	19.39	19.55	19.74	19.62		
Channel				3692.5	3695	3713	3692.5		
Frequency (MHz)				3692.5	3695	3713	3692.5		
5	QPSK	1	0	24.05	24.18	24.33	24.31	25.7	
5	QPSK	1	12	23.94	24.15	24.22	24.18		
5	QPSK	1	24	23.93	24.14	24.25	24.19		
5	QPSK	12	0	23.09	23.26	23.45	23.40		
5	QPSK	12	7	23.04	23.23	23.35	23.32	24.7	
5	QPSK	12	13	23.07	23.31	23.33	23.22		
5	QPSK	25	0	23.12	23.33	23.41	23.38		
5	16QAM	1	0	23.18	23.35	23.64	23.40		
5	16QAM	1	12	22.96	23.22	23.30	23.18	24.7	
5	16QAM	1	24	23.13	23.30	23.39	23.29		
5	16QAM	12	0	22.08	22.27	22.40	22.32		
5	16QAM	12	7	22.06	22.26	22.43	22.27		
5	16QAM	12	13	21.98	22.25	22.34	22.20	23.7	
5	16QAM	25	0	22.18	22.38	22.38	22.28		
5	64QAM	1	0	21.91	22.01	22.17	22.12		
5	64QAM	1	12	21.74	22.01	22.05	22.06		
5	64QAM	1	24	21.80	22.13	22.08	21.91	23.7	
5	64QAM	12	0	21.15	21.33	21.40	21.41		
5	64QAM	12	7	21.07	21.35	21.49	21.31		
5	64QAM	12	13	21.12	21.34	21.20	21.28		
5	64QAM	25	0	21.11	21.40	21.49	21.33	20.7	
5	256QAM	1	0	19.14	19.26	19.52	19.34		
5	256QAM	1	12	19.15	19.32	19.49	19.29		
5	256QAM	1	24	19.25	19.45	19.59	19.27		
5	256QAM	12	0	19.40	19.55	19.70	19.50	20.7	
5	256QAM	12	7	19.52	19.65	19.77	19.62		
5	256QAM	12	13	19.45	19.62	19.70	19.59		
5	256QAM	25	0	19.37	19.61	19.68	19.61		



Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq.			
Channel				3850	3800	3850				
Frequency (MHz)				2590	2590	2590				
20	QPSK	1	0	2342	2333	2325	20.2			
20	QPSK	1	49	2342	2336	2327				
20	QPSK	1	99	2342	2338	2329				
20	QPSK	50	0	2259	2242	2240	24.2			
20	QPSK	50	24	2255	2242	2241				
20	QPSK	50	50	2255	2242	2240				
20	QPSK	100	0	2259	2241	2242	24.2			
20	16QAM	1	0	2257	2248	2249				
20	16QAM	1	49	2252	2248	2237				
20	16QAM	1	99	2257	2247	2244	20.2			
20	16QAM	50	0	2142	2145	2144				
20	16QAM	50	24	2159	2144	2144				
20	16QAM	50	50	2150	2144	2145	20.2			
20	16QAM	100	0	2159	2144	2144				
20	64QAM	1	0	2128	2122	2122				
20	64QAM	1	49	2133	2128	2125	20.2			
20	64QAM	1	99	2137	2129	2129				
20	64QAM	50	0	2045	2044	2044				
20	64QAM	50	24	2053	2047	2045	20.2			
20	64QAM	50	50	2059	2045	2044				
20	64QAM	100	0	2050	2045	2044				
20	256QAM	1	0	1846	1838	1836	20.2			
20	256QAM	1	49	1835	1826	1827				
20	256QAM	1	99	1834	1828	1824				
20	256QAM	50	0	1871	1852	1850	20.2			
20	256QAM	50	24	1856	1851	1851				
20	256QAM	50	50	1843	1839	1833				
20	256QAM	100	0	1842	1847	1846	20.2			
Channel				3850	3800	3850				
Frequency (MHz)				2177.5	2169	2172.5				
15	QPSK	1	0	2138	2128	2121	20.2			
15	QPSK	1	49	2140	2134	2127				
15	QPSK	1	74	2134	2123	2127				
15	QPSK	36	0	2256	2236	2234	24.2			
15	QPSK	36	20	2252	2239	2239				
15	QPSK	36	39	2246	2242	2230				
15	QPSK	75	0	2249	2231	2240	24.2			
15	16QAM	1	0	2247	2245	2234				
15	16QAM	1	37	2242	2242	2237				
15	16QAM	1	74	2254	2239	2237	20.2			
15	16QAM	36	0	2159	2141	2144				
15	16QAM	36	20	2148	2137	2141				
15	16QAM	36	39	2158	2137	2139	20.2			
15	64QAM	75	0	2151	2144	2138				
15	64QAM	1	0	2125	2129	2121				
15	64QAM	1	37	2131	2123	2122	20.2			
15	64QAM	1	74	2132	2129	2123				
15	64QAM	36	0	2057	2044	2040				
15	64QAM	36	20	2051	2043	2037	20.2			
15	64QAM	36	39	2050	2045	2037				
15	64QAM	75	0	2054	2037	2039				
15	256QAM	1	0	1839	1837	1837	20.2			
15	256QAM	1	37	1831	1825	1825				
15	256QAM	1	74	1832	1823	1823				
15	256QAM	36	0	1841	1842	1846	20.2			
15	256QAM	36	20	1843	1847	1845				
15	256QAM	36	39	1853	1838	1831				
15	256QAM	75	0	1841	1847	1838	20.2			
Channel				3850	3800	3850				
Frequency (MHz)				2592	2590	2592				
10	QPSK	1	0	2338	2327	2321	20.2			
10	QPSK	1	25	2334	2334	2327				
10	QPSK	1	49	2331	2328	2324				
10	QPSK	25	0	2255	2241	2236	24.2			
10	QPSK	25	12	2253	2239	2233				
10	QPSK	25	24	2253	2239	2233				
10	QPSK	50	0	2251	2236	2236	24.2			
10	16QAM	1	0	2247	2238	2231				
10	16QAM	1	26	2244	2239	2237				
10	16QAM	1	49	2254	2246	2234	20.2			
10	16QAM	25	0	2159	2143	2142				
10	16QAM	25	12	2155	2139	2134				
10	16QAM	25	26	2153	2144	2144	20.2			
10	16QAM	50	0	2152	2145	2142				
10	64QAM	1	0	2127	2122	2122				
10	64QAM	1	26	2127	2122	2122	20.2			
10	64QAM	1	49	2133	2121	2123				
10	64QAM	25	0	2052	2041	2039				
10	64QAM	25	12	2058	2042	2038	20.2			
10	64QAM	25	26	2055	2042	2038				
10	64QAM	50	0	2055	2038	2037				
10	256QAM	1	0	1839	1831	1832	20.2			
10	256QAM	1	25	1838	1824	1821				
10	256QAM	1	49	1831	1824	1822				
10	256QAM	25	0	1834	1842	1846	20.2			
10	256QAM	25	12	1834	1843	1835				
10	256QAM	25	26	1836	1830	1824				
10	256QAM	50	0	1838	1841	1845	20.2			
Channel				3850	3800	3850				
Frequency (MHz)				2592.5	2590	2592.5				
5	QPSK	1	0	2339	2324	2325	20.2			
5	QPSK	1	14	2341	2329	2329				
5	QPSK	1	24	2332	2321	2321				
5	QPSK	12	0	2256	2234	2231	24.2			
5	QPSK	12	7	2248	2235	2235				
5	QPSK	12	13	2245	2232	2238				
5	QPSK	25	0	2253	2241	2237	24.2			
5	16QAM	1	0	2247	2242	2238				
5	16QAM	1	12	2244	2244	2238				
5	16QAM	1	24	2254	2245	2239	20.2			
5	16QAM	12	0	2154	2143	2137				
5	16QAM	12	7	2159	2139	2144				
5	16QAM	12	13	2159	2143	2139	20.2			
5	16QAM	25	0	2159	2140	2134				
5	64QAM	1	0	2130	2129	2122				
5	64QAM	1	12	2131	2123	2123	20.2			
5	64QAM	1	24	2130	2123	2121				
5	64QAM	12	0	2054	2035	2038				
5	64QAM	12	7	2056	2037	2035	20.2			
5	64QAM	12	13	2053	2046	2038				
5	64QAM	25	0	2040	2035	2042				
5	256QAM	1	0	1845	1837	1834	20.2			
5	256QAM	1	12	1838	1824	1827				
5	256QAM	1	24	1838	1820	1822				
5	256QAM	12	0	1843	1851	1846	20.2			
5	256QAM	12	7	1843	1842	1842				
5	256QAM	12	13	1836	1839	1827				
5	256QAM	25	0	1832	1829	1846	20.2			



Band 38_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq			
Channel				3850	3800	3850				
Frequency (MHz)				2590	2590	2590				
20	QPSK	1	0	2342	2333	2325	20.2			
20	QPSK	1	49	2342	2336	2327				
20	QPSK	1	99	2342	2338	2329				
20	QPSK	50	0	2259	2242	2240	24.2			
20	QPSK	50	24	2255	2242	2241				
20	QPSK	50	50	2255	2242	2240				
20	QPSK	100	0	2259	2241	2242	24.2			
20	16QAM	1	0	2257	2248	2249				
20	16QAM	1	49	2252	2248	2237				
20	16QAM	1	99	2257	2247	2244	20.2			
20	16QAM	50	0	2142	2145	2144				
20	16QAM	50	24	2159	2144	2144				
20	16QAM	50	50	2150	2144	2145	20.2			
20	16QAM	100	0	2159	2144	2144				
20	8QAM	1	0	2128	2122	2122				
20	8QAM	1	49	2133	2128	2125	20.2			
20	8QAM	1	99	2137	2128	2129				
20	8QAM	50	0	2045	2044	2044				
20	8QAM	50	24	2053	2047	2045	20.2			
20	8QAM	50	50	2059	2045	2044				
20	8QAM	100	0	2050	2045	2044				
20	256QAM	1	0	1846	1838	1836	20.2			
20	256QAM	1	49	1835	1826	1827				
20	256QAM	1	99	1834	1828	1824				
20	256QAM	50	0	1871	1852	1850	20.2			
20	256QAM	50	24	1856	1852	1851				
20	256QAM	50	50	1843	1839	1833				
20	256QAM	100	0	1842	1847	1846	20.2			
Channel				3760	3800	3850				
Frequency (MHz)				2177.5	2590	2612.5				
15	QPSK	1	0	2338	2328	2321	20.2			
15	QPSK	1	49	2340	2334	2327				
15	QPSK	1	74	2334	2323	2327				
15	QPSK	36	0	2256	2236	2234	24.2			
15	QPSK	36	20	2252	2239	2239				
15	QPSK	36	39	2246	2242	2230				
15	QPSK	75	0	2249	2231	2240	24.2			
15	16QAM	1	0	2247	2245	2234				
15	16QAM	1	37	2242	2242	2237				
15	16QAM	1	74	2254	2239	2237	20.2			
15	16QAM	36	0	2159	2141	2144				
15	16QAM	36	20	2148	2137	2141				
15	16QAM	36	39	2158	2137	2139	20.2			
15	8QAM	75	0	2151	2144	2138				
15	8QAM	1	0	2125	2129	2121				
15	8QAM	1	37	2131	2123	2122	20.2			
15	8QAM	1	74	2135	2129	2125				
15	8QAM	36	0	2057	2044	2040				
15	8QAM	36	20	2051	2043	2037	20.2			
15	8QAM	36	39	2050	2045	2037				
15	8QAM	75	0	2054	2037	2039				
15	256QAM	1	0	1839	1837	1837	20.2			
15	256QAM	1	37	1831	1825	1825				
15	256QAM	1	74	1832	1823	1823				
15	256QAM	36	0	1843	1842	1846	20.2			
15	256QAM	36	20	1843	1847	1835				
15	256QAM	36	39	1853	1838	1831				
15	256QAM	75	0	1841	1847	1838	20.2			
Channel				3760	3800	3850				
Frequency (MHz)				2592	2590	2592.5				
5	QPSK	1	0	2339	2327	2321	20.2			
5	QPSK	1	14	2341	2334	2329				
5	QPSK	1	24	2332	2321	2321				
5	QPSK	12	0	2256	2236	2231	24.2			
5	QPSK	12	7	2248	2235	2235				
5	QPSK	12	13	2245	2232	2238				
5	QPSK	25	0	2253	2241	2237	24.2			
5	16QAM	1	0	2247	2242	2238				
5	16QAM	1	12	2244	2244	2238				
5	16QAM	1	24	2254	2245	2239	20.2			
5	16QAM	12	0	2154	2143	2137				
5	16QAM	12	7	2159	2138	2144				
5	16QAM	12	13	2159	2143	2135	20.2			
5	16QAM	25	0	2159	2140	2134				
5	8QAM	1	0	2130	2129	2122				
5	8QAM	1	12	2131	2123	2123	20.2			
5	8QAM	1	24	2130	2123	2121				
5	8QAM	12	0	2054	2035	2038				
5	8QAM	12	7	2056	2037	2035	20.2			
5	8QAM	12	13	2053	2046	2038				
5	8QAM	25	0	2040	2035	2042				
5	256QAM	1	0	1845	1837	1834	20.2			
5	256QAM	1	12	1838	1824	1827				
5	256QAM	1	24	1838	1820	1822				
5	256QAM	12	0	1843	1851	1846	20.2			
5	256QAM	12	7	1843	1842	1842				
5	256QAM	12	13	1856	1839	1827				
5	256QAM	25	0	1832	1829	1846	20.2			



Band 48_Ant 2									
BW (MHz)	Modulation	RB Start	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power N/A Ch / Freq	Take-off time (dBm)	
Channel				5630	5680	5730	5660		
Frequency (MHz)				3610	3660	3611	3660		
20	QPSK	1	0	24.39	24.55	24.82	24.85		
20	QPSK	1	49	24.27	24.36	24.48	24.47		25.7
20	QPSK	1	99	24.31	24.34	24.42	24.47		
20	QPSK	50	0	23.47	23.57	23.80	23.81		
20	QPSK	50	24	23.46	23.54	23.65	23.66		24.7
20	QPSK	50	50	23.40	23.47	23.54	23.57		
20	QPSK	100	0	23.43	23.52	23.52	23.54		
20	16QAM	1	0	23.58	23.67	23.75	23.78		
20	16QAM	1	49	23.37	23.44	23.52	23.55		24.7
20	16QAM	1	99	23.59	23.65	23.64	23.57		
20	16QAM	50	0	23.59	23.59	23.61	23.62		
20	16QAM	50	24	23.47	23.55	23.57	23.67		23.7
20	16QAM	50	50	23.43	23.46	23.56	23.56		
20	16QAM	100	0	22.43	22.54	22.65	22.64		
20	64QAM	1	0	22.25	22.38	22.43	22.43		
20	64QAM	1	49	22.12	22.20	22.29	22.29		23.7
20	64QAM	1	99	22.12	22.19	22.21	22.32		
20	64QAM	50	0	21.49	21.59	21.61	21.64		
20	64QAM	50	24	21.40	21.53	21.57	21.65		22.7
20	64QAM	50	50	21.42	21.49	21.59	21.59		
20	64QAM	100	0	21.47	21.54	21.53	21.66		
20	256QAM	1	0	18.91	18.16	18.12	18.33		
20	256QAM	1	49	18.81	18.04	18.11	18.31		20.7
20	256QAM	1	99	18.91	18.16	18.21	18.45		
20	256QAM	50	0	18.17	18.38	18.34	18.58		
20	256QAM	50	24	18.10	18.28	18.28	18.52		20.7
20	256QAM	50	50	18.21	18.38	18.49	18.61		
20	256QAM	100	0	18.13	18.34	18.36	18.61		
Channel				3615	3665	3616	3665	Take-off time (dBm)	
Frequency (MHz)				3675	3680	3682	3693		
15	QPSK	1	0	24.36	24.44	24.53	24.57		
15	QPSK	1	49	24.24	24.33	24.42	24.42		25.7
15	QPSK	1	74	24.28	24.33	24.42	24.41		
15	QPSK	36	0	23.44	23.52	23.55	23.57		
15	QPSK	36	20	23.39	23.49	23.57	23.58		24.7
15	QPSK	36	39	23.37	23.43	23.54	23.58		
15	QPSK	75	0	23.42	23.50	23.61	23.62		
15	16QAM	1	0	23.48	23.57	23.63	23.67		
15	16QAM	1	37	23.37	23.45	23.53	23.56		24.7
15	16QAM	1	74	23.44	23.49	23.59	23.64		
15	16QAM	36	0	22.41	22.50	22.52	22.55		
15	16QAM	36	20	22.37	22.44	22.54	22.52		23.7
15	16QAM	36	39	22.34	22.40	22.50	22.52		
15	16QAM	75	0	22.42	22.50	22.51	22.58		
15	64QAM	1	0	22.29	22.31	22.32	22.38		
15	64QAM	1	37	22.09	22.16	22.28	22.31		23.7
15	64QAM	1	74	22.16	22.24	22.25	22.36		
15	64QAM	36	0	21.45	21.55	21.57	21.61		
15	64QAM	36	20	21.40	21.49	21.59	21.54		22.7
15	64QAM	36	39	21.40	21.48	21.52	21.58		
15	64QAM	75	0	21.43	21.50	21.54	21.55		
15	256QAM	1	0	18.98	18.15	18.15	18.36		
15	256QAM	1	37	18.77	18.04	18.10	18.35		20.7
15	256QAM	1	74	18.97	18.15	18.24	18.49		
15	256QAM	36	0	18.13	18.30	18.31	18.45		
15	256QAM	36	20	18.14	18.38	18.32	18.85		20.7
15	256QAM	36	39	18.11	18.35	18.48	18.64		
15	256QAM	75	0	18.14	18.24	18.39	18.59		
Channel				5650	5695	5696	5699	Take-off time (dBm)	
Frequency (MHz)				3695	3697	3698	3703		
10	QPSK	1	0	24.34	24.37	24.50	24.57		
10	QPSK	1	25	24.34	24.29	24.34	24.39		25.7
10	QPSK	1	49	24.35	24.24	24.42	24.47		
10	QPSK	25	0	23.41	23.44	23.83	23.48		
10	QPSK	25	12	23.36	23.39	23.83	23.47		24.7
10	QPSK	25	24	23.38	23.39	23.83	23.83		
10	QPSK	50	0	23.32	23.43	23.44	23.63		
10	16QAM	1	0	23.30	23.37	23.58	23.66		
10	16QAM	1	25	23.19	23.34	23.37	23.48		24.7
10	16QAM	1	49	23.39	23.47	23.49	23.54		
10	16QAM	25	0	22.38	22.44	22.48	22.55		
10	16QAM	25	12	22.35	22.35	22.49	22.40		23.7
10	16QAM	25	24	22.34	22.39	22.48	22.50		
10	16QAM	50	0	22.41	22.51	22.49	22.48		
10	64QAM	1	0	22.11	22.28	22.28	22.30		
10	64QAM	1	25	21.36	21.47	21.48	21.58		23.7
10	64QAM	25	12	21.31	21.43	21.52	21.45		
10	64QAM	25	24	21.37	21.38	21.55	21.58		
10	64QAM	50	0	21.36	21.46	21.49	21.48		
10	256QAM	1	0	18.88	18.12	18.02	18.28		
10	256QAM	1	25	18.73	18.01	18.09	18.23		20.7
10	256QAM	1	49	18.98	18.10	18.22	18.30		
10	256QAM	25	0	18.14	18.31	18.31	18.51		
10	256QAM	25	12	18.15	18.28	18.38	18.80		20.7
10	256QAM	25	24	18.14	18.28	18.48	18.83		
10	256QAM	50	0	18.07	18.20	18.32	18.61		
Channel				5695	5697	5698	5699	Take-off time (dBm)	
Frequency (MHz)				3695	3697	3698	3703		
5	QPSK	1	0	24.34	24.42	24.53	24.61		
5	QPSK	1	14	24.22	24.23	24.42	24.47		25.7
5	QPSK	1	24	24.20	24.30	24.44	24.55		
5	QPSK	12	0	23.41	23.50	23.65	23.67		
5	QPSK	12	7	23.38	23.47	23.55	23.61		24.7
5	QPSK	12	13	23.42	23.45	23.59	23.63		
5	QPSK	25	0	23.40	23.49	23.58	23.65		
5	16QAM	1	0	23.47	23.57	23.65	23.75		
5	16QAM	1	12	23.45	23.63	23.60	23.67		24.7
5	16QAM	1	24	23.50	23.57	23.65	23.69		
5	16QAM	12	0	22.39	22.48	22.59	22.63		
5	16QAM	12	7	22.36	22.46	22.54	22.64		23.7
5	16QAM	12	13	22.37	22.47	22.51	22.64		
5	16QAM	25	0	22.44	22.53	22.62	22.68		
5	64QAM	1	0	22.30	22.28	22.41	22.44		
5	64QAM	1	12	22.12	22.21	22.32	22.38		23.7
5	64QAM	1	24	22.18	22.28	22.41	22.47		
5	64QAM	12	0	21.48	21.54	21.68	21.71		
5	64QAM	12	7	21.44	21.49	21.62	21.65		22.7
5	64QAM	12	13	21.43	21.47	21.50	21.62		
5	64QAM	25	0	21.47	21.52	21.61	21.71		
5	256QAM	1	0	18.90	18.14	18.11	18.24		
5	256QAM	1	12	18.71	18.03	18.09	18.23		20.7
5	256QAM	1	24	18.99	18.14	18.30	18.37		
5	256QAM	12	0	18.10	18.29	18.24	18.46		
5	256QAM	12	7	18.15	18.10	18.30	18.61		20.7
5	256QAM	12	13	18.13	18.38	18.43	18.64		
5	256QAM	25	0	18.11	18.24	18.33	18.58		



Band 48_Ant 7								
BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Power	Take-off loss (dBm)
				Low Ch / Freq	Mid Ch / Freq	High Ch / Freq	Max Ch / Freq	
Channel				5640	5680	5680	5660	
Frequency (MHz)				5650	5660	5641	5660	
20	QPSK	1	0	22.10	22.18	22.28	22.16	24.1
				22.12	22.18	22.20	22.20	
				22.22	22.10	22.28	22.19	
				22.23	22.27	22.45	22.21	
20	QPSK	50	0	22.27	22.29	22.48	22.26	24.1
				22.28	22.31	22.39	22.17	
				22.23	22.31	22.48	22.23	
				22.14	22.24	22.54	22.32	
20	16QAM	1	49	22.08	22.25	22.41	22.19	24.1
				22.06	22.46	22.54	22.38	
				22.19	22.18	22.29	22.28	
				22.24	22.38	22.53	22.28	
20	16QAM	50	0	22.17	22.16	22.44	22.22	23.7
				22.17	22.35	22.65	22.28	
				21.68	21.88	21.99	21.88	
				21.87	22.03	22.09	21.87	
20	64QAM	50	0	21.46	21.49	21.68	21.47	22.7
				21.48	21.65	21.81	21.55	
				21.48	21.68	21.73	21.52	
				21.08	21.64	21.80	21.56	
20	256QAM	1	0	19.20	19.33	19.69	19.40	20.7
				19.14	19.31	19.50	19.28	
				19.30	19.49	19.69	19.38	
				19.51	19.64	19.81	19.65	
20	256QAM	50	0	19.53	19.65	19.82	19.64	20.7
				19.51	19.65	19.77	19.58	
				19.59	19.61	19.78	19.61	
				19.59	19.61	19.78	19.61	
Channel				5700	5660	5660	5680	
Frequency (MHz)				5707.5	5668	5662	5670.5	
15	QPSK	1	0	21.63	22.18	22.26	22.09	24.1
				21.62	22.18	22.20	22.09	
				22.01	22.24	22.35	22.19	
				22.10	22.29	22.41	22.18	
15	QPSK	36	0	22.05	22.28	22.39	22.15	24.1
				22.06	22.29	22.39	22.07	
				22.08	22.29	22.38	22.19	
				22.14	22.24	22.45	22.29	
15	16QAM	1	0	21.46	21.48	21.68	21.47	24.1
				22.19	22.46	22.51	22.30	
				22.13	22.25	22.41	22.28	
				22.11	22.32	22.47	22.24	
15	16QAM	36	0	22.12	22.27	22.42	22.12	23.7
				22.13	22.25	22.49	22.17	
				21.60	21.77	22.04	21.82	
				21.64	21.81	21.88	21.68	
15	64QAM	1	0	21.79	21.80	21.88	21.78	23.7
				21.57	21.52	21.75	21.48	
				21.40	21.56	21.72	21.46	
				21.44	21.62	21.65	21.48	
15	64QAM	36	0	21.37	21.62	21.75	21.53	22.7
				21.46	21.69	21.65	21.48	
				19.09	19.35	19.42	19.32	
				19.28	19.49	19.43	19.38	
15	256QAM	36	0	19.44	19.54	19.71	19.50	20.7
				19.48	19.64	19.74	19.60	
				19.49	19.68	19.69	19.53	
				19.46	19.60	19.77	19.52	
Channel				5800	5800	5816	5800	
Frequency (MHz)				5805.0	5800	5811.0	5800.0	
10	QPSK	1	0	21.68	22.16	22.26	22.14	24.1
				22.00	22.15	22.22	21.97	
				22.03	22.22	22.37	22.18	
				22.01	22.24	22.35	22.21	
10	QPSK	25	0	22.08	22.27	22.39	22.21	24.1
				22.14	22.29	22.44	22.14	
				22.06	22.23	22.40	22.15	
				22.10	22.28	22.46	22.26	
10	16QAM	1	0	22.03	22.20	22.40	22.19	24.1
				22.18	22.36	22.48	22.32	
				22.09	22.28	22.46	22.25	
				22.17	22.38	22.45	22.22	
10	16QAM	25	0	22.12	22.25	22.44	22.16	23.7
				22.15	22.25	22.45	22.23	
				21.59	21.85	22.05	21.79	
				21.68	21.86	21.85	21.70	
10	64QAM	1	0	21.43	21.64	21.70	21.48	23.7
				21.38	21.71	21.74	21.49	
				21.65	22.02	22.03	21.85	
				21.43	21.64	21.70	21.48	
10	64QAM	25	0	21.45	21.58	21.89	21.49	22.7
				21.46	21.56	21.74	21.52	
				19.16	19.27	19.50	19.32	
				19.08	19.27	19.43	19.22	
10	256QAM	1	0	19.03	19.41	19.48	19.32	20.7
				19.51	19.55	19.79	19.64	
				19.48	19.59	19.75	19.63	
				19.47	19.55	19.87	19.53	
10	256QAM	25	0	19.48	19.54	19.70	19.53	20.7
				19.48	19.54	19.70	19.53	
				19.48	19.54	19.70	19.53	
				19.47	19.55	19.74	19.53	
Channel				5900	5900	5916	5900	
Frequency (MHz)				5902.5	5900	5911.0	5900.0	
5	QPSK	1	0	21.64	22.10	22.20	22.14	24.1
				21.68	22.15	22.21	21.98	
				22.07	22.29	22.29	22.17	
				22.10	22.24	22.45	22.19	
5	QPSK	12	0	22.12	22.21	22.45	22.13	24.1
				22.14	22.34	22.31	22.11	
				22.03	22.27	22.38	22.18	
				22.09	22.33	22.65	22.23	
5	16QAM	1	0	22.08	22.15	22.35	22.18	24.1
				22.22	22.44	22.48	22.24	
				22.13	22.25	22.43	22.22	
				22.14	22.27	22.43	22.21	
5	16QAM	12	0	22.13	22.15	22.35	22.20	23.7
				22.07	22.30	22.48	22.18	
				21.62	21.85	22.00	21.85	
				21.67	21.78	21.85	21.68	
5	64QAM	1	0	21.67	21.98	22.01	21.87	23.7
				21.39	21.65	21.70	21.52	
				21.40	21.62	21.80	21.53	
				21.44	21.68	21.87	21.42	
5	64QAM	12	0	21.38	21.58	21.80	21.52	22.7
				21.46	21.58	21.80	21.52	
				19.08	19.25	19.48	19.19	
				19.28	19.48	19.47	19.27	
5	256QAM	1	0	19.48	19.63	19.61	19.42	20.7
				19.03	19.35	19.76	19.67	
				19.42	19.61	19.87	19.48	
				19.47	19.65	19.74	19.53	



Band 48_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power N/A Ch / Freq	Power	Time-up (sec)	
				5640	5680	5720	5660		(dBm)	
Channel				5650	5690	5730	5670			
Frequency (MHz)				5650	5690	5730	5670			
20	QPSK	1	0	23.48	23.57	23.67	23.74		24.9	
20	QPSK	1	49	23.34	23.43	23.52	23.54			
20	QPSK	1	99	23.34	23.43	23.52	23.54			
20	QPSK	50	0	23.22	23.35	23.38	23.38		24.7	
20	QPSK	50	24	23.16	23.29	23.29	23.29			
20	QPSK	50	50	23.14	23.23	23.31	23.33			
20	16QAM	1	0	23.18	23.30	23.28	23.40		24.7	
20	16QAM	1	49	23.02	23.43	23.53	23.52			
20	16QAM	1	99	23.16	23.23	23.59	23.31			
20	16QAM	50	0	22.21	22.31	22.38	22.41		23.7	
20	16QAM	50	24	22.30	22.33	22.33	22.41			
20	16QAM	50	50	22.15	22.22	22.22	22.34			
20	16QAM	100	0	22.19	22.31	22.31	22.40		23.7	
20	16QAM	100	0	22.00	22.17	22.19	22.22			
20	16QAM	100	49	21.83	21.89	22.08	22.09			
20	64QAM	1	99	21.02	21.07	22.05	22.05		22.7	
20	64QAM	50	0	21.04	21.04	21.28	21.44			
20	64QAM	50	24	21.03	21.15	21.33	21.44			
20	64QAM	50	50	21.15	21.28	21.34	21.33		20.7	
20	64QAM	100	0	21.20	21.33	21.32	21.42			
20	256QAM	1	0	18.88	19.08	19.11	19.32			
20	256QAM	1	49	18.71	18.85	19.01	19.30		20.7	
20	256QAM	1	99	18.59	18.72	19.01	19.30			
20	256QAM	50	0	18.17	18.35	18.29	18.54			
20	256QAM	50	24	18.11	18.28	18.21	18.56		20.7	
20	256QAM	50	50	18.15	18.35	18.42	18.65			
20	256QAM	100	0	18.04	18.27	18.28	18.51			
Channel				387.5	392	396.5	390.5		Time-up (sec)	
Frequency (MHz)				387.5	392	396.5	390.5			
15	QPSK	1	0	23.43	23.44	23.59	23.64		24.9	
15	QPSK	1	49	23.28	23.44	23.59	23.64			
15	QPSK	1	74	23.33	23.38	23.42	23.44			
15	QPSK	36	0	23.21	23.35	23.28	23.28		24.7	
15	QPSK	36	20	23.13	23.21	23.25	23.33			
15	QPSK	36	39	23.10	23.18	23.31	23.30			
15	QPSK	0	0	23.18	23.29	23.24	23.30		24.7	
15	16QAM	1	0	23.27	23.40	23.50	23.46			
15	16QAM	1	37	23.00	23.41	23.52	23.52			
15	16QAM	1	74	23.10	23.21	23.29	23.23		23.7	
15	16QAM	36	0	22.19	22.28	22.28	22.41			
15	16QAM	36	20	22.19	22.28	22.29	22.37			
15	16QAM	36	39	22.05	22.25	22.29	22.27		23.7	
15	16QAM	75	0	22.15	22.25	22.21	22.32			
15	64QAM	1	0	21.02	21.15	22.14	22.19			
15	64QAM	1	37	21.80	21.88	22.00	22.00		23.7	
15	64QAM	1	74	21.86	21.88	22.04	21.97			
15	64QAM	36	0	21.20	21.30	21.32	21.30			
15	64QAM	36	20	21.15	21.31	21.31	21.42		22.7	
15	64QAM	36	39	21.09	21.23	21.27	21.33			
15	64QAM	75	0	21.16	21.29	21.29	21.40			
15	256QAM	1	0	18.14	18.14	18.14	18.14		20.7	
15	256QAM	1	37	18.76	18.05	18.11	18.21			
15	256QAM	1	74	18.00	18.10	18.27	18.42			
15	256QAM	36	0	18.10	18.34	18.27	18.45		20.7	
15	256QAM	36	20	18.17	18.28	18.29	18.83			
15	256QAM	36	39	18.20	18.32	18.47	18.60			
15	256QAM	75	0	18.03	18.20	18.28	18.39		20.7	
15	256QAM	100	0	18.12	18.28	18.32	18.54			
15	256QAM	100	0	18.12	18.28	18.32	18.54			
Channel				388.5	393	397.5	391.5		Time-up (sec)	
Frequency (MHz)				388.5	393	397.5	391.5			
5	QPSK	1	0	23.42	23.57	23.67	23.67		24.9	
5	QPSK	1	14	23.28	23.37	23.59	23.46			
5	QPSK	1	24	23.27	23.35	23.49	23.46			
5	QPSK	12	0	23.20	23.29	23.31	23.31		24.7	
5	QPSK	12	7	23.11	23.17	23.27	23.30			
5	QPSK	12	13	23.09	23.20	23.28	23.23			
5	QPSK	25	0	23.14	23.23	23.20	23.28		24.7	
5	16QAM	1	0	23.28	23.46	23.46	23.45			
5	16QAM	1	12	23.02	23.22	23.22	23.29			
5	16QAM	1	24	23.09	23.22	23.29	23.31		23.7	
5	16QAM	12	0	22.23	22.34	22.32	22.38			
5	16QAM	12	7	22.16	22.26	22.33	22.32			
5	16QAM	12	13	22.09	22.25	22.28	22.27		23.7	
5	16QAM	25	0	22.18	22.23	22.21	22.38			
5	64QAM	1	0	21.07	21.07	22.09	22.13			23.7
5	64QAM	1	12	21.81	21.91	21.87	22.01			
5	64QAM	1	24	21.88	21.94	22.01	21.97			
5	64QAM	12	0	21.19	21.35	21.34	21.31		22.7	
5	64QAM	12	7	21.22	21.28	21.31	21.39			
5	64QAM	12	13	21.11	21.28	21.34	21.27			
5	64QAM	25	0	21.17	21.27	21.25	21.38		20.7	
5	256QAM	1	0	18.83	19.14	19.11	19.33			
5	256QAM	1	12	18.78	19.02	19.19	19.30			
5	256QAM	1	24	18.88	19.08	19.28	19.39		20.7	
5	256QAM	12	0	18.18	18.54	18.35	18.65			
5	256QAM	12	7	18.11	18.54	18.35	18.65			
5	256QAM	12	13	18.11	18.58	19.44	19.64		20.7	
5	256QAM	25	0	18.00	18.25	18.28	18.58			



Band 38_Ant 2										
BW (MHz)	Modulation	RB Start	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq.			
Channel				3860	3800	3850				
Frequency (MHz)				2595	2595	2595				
20	QPSK	1	0	24.68	24.63	24.52	25.7			
20	QPSK	1	49	24.69	24.64	24.52				
20	QPSK	1	98	24.68	24.64	24.52				
20	QPSK	50	0	23.87	23.70	23.69	24.7			
20	QPSK	50	24	23.86	23.72	23.69				
20	QPSK	50	50	23.87	23.70	23.69				
20	QPSK	100	0	23.88	23.71	23.69	24.7			
20	16QAM	1	0	23.81	23.74	23.67				
20	16QAM	1	49	23.79	23.72	23.61				
20	16QAM	1	99	23.81	23.69	23.61	23.7			
20	16QAM	50	0	22.91	22.76	22.73				
20	16QAM	50	24	22.90	22.75	22.70				
20	16QAM	50	50	22.90	22.75	22.68	23.7			
20	16QAM	100	0	22.89	22.74	22.70				
20	64QAM	1	0	23.57	22.41	22.42				
20	64QAM	1	49	23.53	22.46	22.38	23.7			
20	64QAM	1	99	23.58	22.39	22.42				
20	64QAM	50	0	22.49	21.78	21.79				
20	64QAM	50	24	22.05	21.77	21.70	23.7			
20	64QAM	50	50	22.62	21.74	21.70				
20	64QAM	100	0	22.70	21.74	21.70				
20	256QAM	1	0	18.77	18.78	18.81	20.7			
20	256QAM	1	49	18.70	18.68	18.59				
20	256QAM	1	99	18.73	18.67	18.64				
20	256QAM	50	0	20.07	18.96	18.97	20.7			
20	256QAM	50	24	20.02	18.92	18.91				
20	256QAM	50	50	20.01	18.83	18.87				
20	256QAM	100	0	20.03	18.92	18.91	20.7			
Channel				3860	3800	3850				
Frequency (MHz)				2577.5	2595	2612.5				
15	QPSK	1	0	24.60	24.52	24.49	25.7			
15	QPSK	1	49	24.63	24.52	24.49				
15	QPSK	1	74	24.59	24.52	24.38				
15	QPSK	36	0	23.77	23.63	23.58	24.7			
15	QPSK	36	20	23.80	23.74	23.58				
15	QPSK	36	39	23.75	23.61	23.58				
15	QPSK	75	0	23.78	23.63	23.58	24.7			
15	16QAM	1	0	23.78	23.68	23.58				
15	16QAM	1	74	23.74	23.63	23.54				
15	16QAM	36	0	22.76	22.64	22.55	23.7			
15	16QAM	36	20	22.74	22.68	22.54				
15	16QAM	36	39	22.74	22.58	22.54				
15	64QAM	75	0	22.79	22.65	22.60	23.7			
15	64QAM	1	0	22.90	22.56	22.50				
15	64QAM	1	37	22.44	22.37	22.23				
15	64QAM	1	74	22.44	22.36	22.26	23.7			
15	64QAM	36	0	21.82	21.67	21.61				
15	64QAM	36	20	21.80	21.73	21.61				
15	64QAM	36	39	21.81	21.65	21.58	22.7			
15	256QAM	1	0	18.75	18.76	18.81				
15	256QAM	1	37	18.07	18.05	18.55				
15	256QAM	1	74	18.72	18.55	18.49	20.7			
15	256QAM	36	0	18.08	18.08	18.80				
15	256QAM	36	20	18.05	18.88	18.81				
15	256QAM	36	39	18.08	18.83	18.84	20.7			
15	256QAM	75	0	18.09	18.91	18.89				
Channel				3860	3800	3800				
Frequency (MHz)				2592.5	2595	2607.5				
10	QPSK	1	0	24.63	24.61	24.42	25.7			
10	QPSK	1	25	24.61	24.55	24.41				
10	QPSK	1	49	24.67	24.63	24.43				
10	QPSK	25	0	23.74	23.59	23.62	24.7			
10	QPSK	25	12	23.75	23.69	23.51				
10	QPSK	25	24	23.74	23.69	23.51				
10	QPSK	50	0	23.75	23.61	23.53	24.7			
10	16QAM	1	0	23.81	23.68	23.52				
10	16QAM	1	25	23.72	23.64	23.51				
10	16QAM	1	49	23.79	23.68	23.47	23.7			
10	16QAM	25	0	22.74	22.59	22.53				
10	16QAM	25	12	22.76	22.72	22.58				
10	16QAM	25	20	22.74	22.67	22.48	23.7			
10	16QAM	50	0	22.78	22.65	22.56				
10	64QAM	1	0	22.97	22.39	22.32				
10	64QAM	1	49	22.94	22.43	22.32	23.7			
10	64QAM	25	0	21.81	21.67	21.61				
10	64QAM	25	12	21.83	21.75	21.63				
10	64QAM	25	20	21.82	21.78	21.60	22.7			
10	64QAM	50	0	21.78	21.66	21.67				
10	256QAM	1	0	18.09	18.72	18.78				
10	256QAM	1	25	18.05	18.59	18.58	20.7			
10	256QAM	1	49	18.09	18.52	18.48				
10	256QAM	25	0	18.08	18.89	18.91				
10	256QAM	25	12	18.04	18.83	18.86	20.7			
10	256QAM	25	24	18.01	18.76	18.82				
10	256QAM	50	0	20.01	18.84	18.88				
Channel				3860	3800	3800				
Frequency (MHz)				2592.5	2595	2607.5				
5	QPSK	1	0	24.58	24.53	24.37	25.7			
5	QPSK	1	14	24.54	24.49	24.35				
5	QPSK	1	24	24.59	24.52	24.33				
5	QPSK	12	0	23.88	23.64	23.64	24.7			
5	QPSK	12	7	23.72	23.64	23.50				
5	QPSK	12	13	23.71	23.66	23.49				
5	QPSK	25	0	23.72	23.65	23.45	24.7			
5	16QAM	1	0	23.72	23.67	23.62				
5	16QAM	1	12	23.75	23.68	23.50				
5	16QAM	1	24	23.75	23.68	23.52	24.7			
5	16QAM	12	0	22.67	22.60	22.46				
5	16QAM	12	7	22.72	22.66	22.47				
5	16QAM	12	13	22.67	22.62	22.45	23.7			
5	16QAM	25	0	22.73	22.68	22.52				
5	64QAM	1	0	22.51	22.44	22.25				
5	64QAM	1	12	22.54	22.44	22.30	23.7			
5	64QAM	1	24	22.64	22.49	22.28				
5	64QAM	12	0	21.78	21.71	21.53				
5	64QAM	12	7	21.77	21.70	21.55	22.7			
5	64QAM	12	13	21.76	21.70	21.51				
5	64QAM	25	0	21.79	21.70	21.55				
5	256QAM	1	0	18.67	18.77	18.81	20.7			
5	256QAM	1	12	18.64	18.83	18.56				
5	256QAM	1	24	18.72	18.55	18.49				
5	256QAM	12	0	20.00	18.98	18.97	20.7			
5	256QAM	12	7	19.97	18.95	18.93				
5	256QAM	12	13	18.99	18.80	18.77				
5	256QAM	25	0	18.98	18.87	18.82	20.7			



Band 48_Ant 7									
SN (MHz)	Modulation	RB Start	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Total Ch / Freq	Time-up time (dBm)	
Channel				8540	8580	8620	8660		
Frequency (MHz)				8560	8600	8640	8680		
20	QPSK	1	0	22.15	22.18	22.38	22.16	23.3	
20	QPSK	1	49	22.12	22.14	22.30	22.19		
20	QPSK	1	99	22.22	22.31	22.38	22.31		
20	QPSK	50	0	22.23	22.27	22.45	22.21	23.3	
20	QPSK	50	24	22.37	22.59	22.48	22.52		
20	QPSK	50	50	22.26	22.31	22.39	22.17		
20	QPSK	100	0	22.23	22.31	22.46	22.23	23.3	
20	16QAM	1	0	22.14	22.34	22.54	22.32		
20	16QAM	1	49	22.08	22.25	22.41	22.19		
20	16QAM	1	99	22.26	22.46	22.54	22.33	23.3	
20	16QAM	50	0	22.16	22.36	22.50	22.28		
20	16QAM	50	24	22.18	22.38	22.53	22.28		
20	16QAM	50	50	22.17	22.36	22.44	22.32	23.3	
20	16QAM	100	0	22.17	22.35	22.55	22.28		
20	64QAM	1	0	21.08	21.86	21.39	21.88		
20	64QAM	1	49	21.68	21.86	21.69	21.77	23.3	
20	64QAM	1	99	21.87	22.03	22.09	21.87		
20	64QAM	50	0	21.44	21.62	21.58	21.49		
20	64QAM	50	24	21.48	21.65	21.81	21.57	22.7	
20	64QAM	50	50	21.48	21.66	21.73	21.52		
20	64QAM	100	0	21.08	21.64	21.80	21.56		
20	256QAM	1	0	18.20	18.33	18.89	18.40	20.7	
20	256QAM	1	49	18.14	18.31	18.50	18.28		
20	256QAM	1	99	18.30	18.46	18.60	18.38		
20	256QAM	50	0	18.51	18.64	18.81	18.65	20.7	
20	256QAM	50	24	18.52	18.65	18.82	18.64		
20	256QAM	50	50	18.51	18.65	18.77	18.58		
20	256QAM	100	0	18.50	18.61	18.78	18.61	Time-up time (dBm)	

Channel									
SN (MHz)	Modulation	RB Start	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Total Ch / Freq	Time-up time (dBm)	
Channel				1827.5	1868	1912	1952.5		
Frequency (MHz)				1850	1890	1934	1975		
15	QPSK	1	0	21.03	22.18	22.28	22.39	23.3	
15	QPSK	1	49	21.02	22.16	22.20	22.30		
15	QPSK	1	99	22.01	22.24	22.35	22.19		
15	QPSK	36	0	22.10	22.20	22.41	22.18	23.3	
15	QPSK	36	20	22.05	22.28	22.39	22.15		
15	QPSK	36	39	22.11	22.20	22.39	22.07		
15	QPSK	50	0	22.08	22.29	22.38	22.19	23.3	
15	16QAM	1	0	22.14	22.24	22.45	22.29		
15	16QAM	1	37	21.48	21.64	21.80	21.62		
15	16QAM	1	74	22.19	22.46	22.51	22.30	23.3	
15	16QAM	36	0	22.13	22.25	22.41	22.28		
15	16QAM	36	20	22.11	22.32	22.47	22.24		
15	16QAM	36	39	22.12	22.27	22.42	22.12	23.3	
15	64QAM	1	0	21.00	21.77	21.24	21.82		
15	64QAM	1	37	21.84	21.81	21.88	21.68		
15	64QAM	1	74	21.79	21.68	21.66	21.78	22.7	
15	64QAM	36	0	21.37	21.52	21.75	21.48		
15	64QAM	36	20	21.40	21.56	21.72	21.46		
15	64QAM	36	39	21.44	21.60	21.65	21.48	20.7	
15	64QAM	75	0	21.37	21.62	21.75	21.53		
15	256QAM	1	0	18.08	18.28	18.42	18.26		
15	256QAM	1	37	18.09	18.35	18.45	18.27	20.7	
15	256QAM	1	74	18.28	18.49	18.43	18.38		
15	256QAM	36	0	18.44	18.54	18.71	18.50		
15	256QAM	36	20	18.48	18.64	18.74	18.80	20.7	
15	256QAM	36	39	18.40	18.68	18.69	18.53		
15	256QAM	75	0	18.48	18.50	18.77	18.52		

Channel									
SN (MHz)	Modulation	RB Start	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power Total Ch / Freq	Time-up time (dBm)	
Channel				3060.5	3095	3133	3173		
Frequency (MHz)				3082.5	3120	3162	3202.5		
5	QPSK	1	0	21.94	22.10	22.29	22.14	23.3	
5	QPSK	1	14	21.88	22.13	22.21	21.98		
5	QPSK	1	24	22.07	22.20	22.29	22.17		
5	QPSK	12	0	22.00	22.24	22.45	22.19	23.3	
5	QPSK	12	7	22.12	22.21	22.45	22.13		
5	QPSK	12	13	22.14	22.34	22.31	22.11		
5	QPSK	25	0	22.03	22.27	22.38	22.18	23.3	
5	16QAM	1	0	22.09	22.34	22.65	22.23		
5	16QAM	1	12	22.08	22.15	22.35	22.18		
5	16QAM	1	24	22.25	22.44	22.48	22.24	23.3	
5	16QAM	12	0	22.13	22.25	22.43	22.22		
5	16QAM	12	7	22.14	22.27	22.43	22.21		
5	16QAM	12	13	22.13	22.33	22.35	22.20	23.3	
5	16QAM	25	0	22.07	22.32	22.48	22.18		
5	64QAM	1	0	21.82	21.85	22.19	21.85		
5	64QAM	1	12	21.88	21.78	21.85	21.68	23.3	
5	64QAM	1	24	21.87	21.98	22.01	21.87		
5	64QAM	12	0	21.39	21.62	21.70	21.52		
5	64QAM	12	7	21.40	21.62	21.80	21.53	22.7	
5	64QAM	12	13	21.44	21.68	21.87	21.42		
5	64QAM	25	0	21.38	21.64	21.80	21.52		
5	256QAM	1	0	18.16	18.27	18.50	18.35	20.7	
5	256QAM	1	12	18.08	18.25	18.48	18.18		
5	256QAM	1	24	18.28	18.48	18.47	18.27		
5	256QAM	12	0	18.48	18.63	18.71	18.47	20.7	
5	256QAM	12	7	18.53	18.65	18.76	18.54		
5	256QAM	12	13	18.42	18.61	18.67	18.48		
5	256QAM	25	0	18.47	18.55	18.74	18.53	Time-up time (dBm)	



Band 38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq.		
Channel				3860	3800	3850			
Frequency (MHz)				2900	2900	2900			
20	QPSK	1	0	2342	2333	2325	20.2		
20	QPSK	1	49	2342	2336	2327			
20	QPSK	1	99	2342	2338	2329			
20	QPSK	50	0	2259	2242	2240	24.2		
20	QPSK	50	24	2255	2240	2241			
20	QPSK	50	50	2255	2242	2240			
20	QPSK	100	0	2259	2241	2242	24.2		
20	16QAM	1	0	2257	2248	2249			
20	16QAM	1	49	2252	2248	2237			
20	16QAM	1	99	2257	2247	2244	20.2		
20	16QAM	50	0	2142	2145	2144			
20	16QAM	50	24	2159	2144	2144			
20	16QAM	50	50	2159	2144	2145	20.2		
20	16QAM	100	0	2159	2144	2144			
20	8QAM	1	0	2128	2122	2122			
20	8QAM	1	49	2133	2128	2125	20.2		
20	8QAM	1	99	2137	2128	2129			
20	8QAM	50	0	2045	2044	2044			
20	8QAM	50	24	2053	2047	2045	20.2		
20	8QAM	50	50	2059	2045	2044			
20	8QAM	100	0	2050	2042	2044			
20	256QAM	1	0	1846	1838	1836	20.2		
20	256QAM	1	49	1835	1828	1827			
20	256QAM	1	99	1834	1828	1824			
20	256QAM	50	0	1871	1852	1850	20.2		
20	256QAM	50	24	1856	1852	1852			
20	256QAM	50	50	1843	1839	1833			
20	256QAM	100	0	1842	1847	1848			
Channel				3860	3800	3850			
Frequency (MHz)				2177.5	2169	2172.5			
15	QPSK	1	0	2138	2128	2121	20.2		
15	QPSK	1	49	2140	2138	2127			
15	QPSK	1	74	2134	2123	2127			
15	QPSK	36	0	2256	2236	2234	24.2		
15	QPSK	36	20	2252	2239	2239			
15	QPSK	36	39	2248	2242	2230			
15	QPSK	75	0	2249	2231	2240	24.2		
15	16QAM	1	0	2247	2240	2234			
15	16QAM	1	37	2242	2245	2240			
15	16QAM	1	74	2254	2239	2237	20.2		
15	16QAM	36	0	2159	2141	2144			
15	16QAM	36	20	2148	2137	2141			
15	16QAM	36	39	2158	2137	2139	20.2		
15	8QAM	75	0	2151	2144	2138			
15	8QAM	1	0	2125	2129	2121			
15	8QAM	1	37	2131	2123	2122	20.2		
15	8QAM	1	74	2135	2128	2123			
15	8QAM	36	0	2057	2044	2040			
15	8QAM	36	20	2061	2043	2037	20.2		
15	8QAM	36	39	2059	2045	2037			
15	8QAM	75	0	2054	2037	2039			
15	256QAM	1	0	1839	1837	1837	20.2		
15	256QAM	1	37	1831	1825	1825			
15	256QAM	1	74	1832	1823	1823			
15	256QAM	36	0	1843	1842	1846	20.2		
15	256QAM	36	20	1843	1847	1835			
15	256QAM	36	39	1853	1838	1831			
15	256QAM	75	0	1841	1847	1838			
Channel				3860	3800	3850			
Frequency (MHz)				2092	2095	2092.5			
10	QPSK	1	0	2038	2027	2021	20.2		
10	QPSK	1	25	2034	2034	2027			
10	QPSK	1	49	2031	2038	2034			
10	QPSK	25	0	2255	2241	2236	24.2		
10	QPSK	25	12	2253	2239	2233			
10	QPSK	25	24	2253	2239	2233			
10	QPSK	50	0	2251	2238	2236	24.2		
10	16QAM	1	0	2247	2238	2231			
10	16QAM	1	25	2244	2239	2237			
10	16QAM	1	49	2254	2246	2234	20.2		
10	16QAM	25	0	2199	2143	2142			
10	16QAM	25	12	2155	2135	2134			
10	16QAM	25	20	2153	2144	2144	20.2		
10	16QAM	50	0	2152	2145	2142			
10	8QAM	1	0	2127	2122	2122			
10	8QAM	1	25	2127	2122	2122	20.2		
10	8QAM	1	49	2133	2121	2123			
10	8QAM	25	0	2062	2041	2039			
10	8QAM	25	12	2058	2042	2038	20.2		
10	8QAM	25	24	2055	2042	2038			
10	8QAM	50	0	2055	2038	2037			
10	256QAM	1	0	1839	1831	1832	20.2		
10	256QAM	1	25	1838	1824	1821			
10	256QAM	1	49	1831	1824	1822			
10	256QAM	25	0	1844	1842	1846	20.2		
10	256QAM	25	12	1844	1843	1835			
10	256QAM	25	24	1838	1835	1824			
10	256QAM	50	0	1838	1841	1845			
Channel				3860	3800	3850			
Frequency (MHz)				2092.5	2095	2092.5			
5	QPSK	1	0	2039	2024	2025	20.2		
5	QPSK	1	14	2041	2029	2029			
5	QPSK	1	24	2032	2021	2021			
5	QPSK	12	0	2255	2234	2231	24.2		
5	QPSK	12	7	2248	2235	2235			
5	QPSK	12	13	2245	2232	2238			
5	QPSK	25	0	2253	2241	2237	24.2		
5	16QAM	1	0	2247	2242	2238			
5	16QAM	1	12	2244	2244	2238			
5	16QAM	1	24	2254	2245	2239	20.2		
5	16QAM	12	0	2154	2143	2137			
5	16QAM	12	7	2159	2138	2144			
5	16QAM	12	13	2159	2143	2135	20.2		
5	16QAM	25	0	2159	2140	2134			
5	8QAM	1	0	2130	2129	2122			
5	8QAM	1	12	2131	2123	2123	20.2		
5	8QAM	1	24	2130	2123	2121			
5	8QAM	12	0	2054	2035	2038			
5	8QAM	12	7	2056	2037	2035	20.2		
5	8QAM	12	13	2053	2046	2038			
5	8QAM	25	0	2040	2035	2042			
5	256QAM	1	0	1845	1837	1834	20.2		
5	256QAM	1	12	1838	1824	1827			
5	256QAM	1	24	1838	1820	1822			
5	256QAM	12	0	1843	1851	1848	20.2		
5	256QAM	12	7	1843	1842	1842			
5	256QAM	12	13	1836	1839	1827			
5	256QAM	25	0	1832	1829	1846			



Band 38_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq			
Channel				3850	3800	3850				
Frequency (MHz)				2500	2500	2500				
20	QPSK	1	0	24.68	24.63	24.52	25.7			
20	QPSK	1	49	24.69	24.64	24.52				
20	QPSK	1	98	24.68	24.64	24.52				
20	QPSK	50	0	23.87	23.70	23.69	24.7			
20	QPSK	50	24	23.86	23.72	23.69				
20	QPSK	50	50	23.87	23.70	23.69				
20	QPSK	100	0	23.88	23.71	23.69	24.7			
20	16QAM	1	0	23.81	23.74	23.67				
20	16QAM	1	49	23.79	23.72	23.61				
20	16QAM	1	99	23.81	23.69	23.61	23.7			
20	16QAM	50	0	22.91	22.76	22.73				
20	16QAM	50	24	22.90	22.75	22.70				
20	16QAM	50	50	22.90	22.75	22.68	23.7			
20	16QAM	100	0	22.89	22.73	22.70				
20	64QAM	1	0	23.57	22.41	22.42				
20	64QAM	1	49	23.53	22.46	22.38	23.7			
20	64QAM	1	99	23.58	22.39	22.42				
20	64QAM	50	0	22.50	21.76	21.73				
20	64QAM	50	24	22.05	21.77	21.70	23.7			
20	64QAM	50	50	22.62	21.74	21.70				
20	64QAM	100	0	22.70	21.74	21.70				
20	256QAM	1	0	18.77	18.78	18.81	20.7			
20	256QAM	1	49	18.70	18.68	18.59				
20	256QAM	1	99	18.73	18.67	18.64				
20	256QAM	50	0	20.07	19.98	19.97	20.7			
20	256QAM	50	24	20.02	19.92	19.91				
20	256QAM	50	50	20.01	19.83	19.87				
20	256QAM	100	0	20.03	19.92	19.91	20.7			
Channel				3777.5	3700	3722.5				
Frequency (MHz)				2477.5	2400	2422.5				
15	QPSK	1	0	24.60	24.52	24.49	25.7			
15	QPSK	1	49	24.63	24.52	24.49				
15	QPSK	1	74	24.59	24.52	24.38				
15	QPSK	36	0	23.77	23.63	23.58	24.7			
15	QPSK	36	20	23.80	23.73	23.58				
15	QPSK	36	39	23.75	23.61	23.58				
15	QPSK	75	0	23.78	23.63	23.58	24.7			
15	16QAM	1	0	23.78	23.68	23.58				
15	16QAM	1	74	23.74	23.63	23.54				
15	16QAM	36	0	22.78	22.64	22.55	23.7			
15	16QAM	36	20	22.74	22.68	22.54				
15	16QAM	36	39	22.74	22.58	22.54				
15	64QAM	75	0	22.79	22.65	22.60	23.7			
15	64QAM	1	0	22.90	22.56	22.50				
15	64QAM	1	37	22.44	22.37	22.23				
15	64QAM	1	74	22.44	22.36	22.26	23.7			
15	64QAM	36	0	21.82	21.67	21.61				
15	64QAM	36	20	21.80	21.73	21.61				
15	64QAM	36	39	21.81	21.65	21.58	22.7			
15	64QAM	75	0	21.81	21.65	21.61				
15	256QAM	1	0	18.75	18.75	18.75				
15	256QAM	1	37	18.07	18.05	18.05	20.7			
15	256QAM	1	74	18.72	18.55	18.49				
15	256QAM	36	0	18.08	18.08	18.08				
15	256QAM	36	20	18.05	18.08	18.01	20.7			
15	256QAM	36	39	18.08	18.03	18.04				
15	256QAM	75	0	18.09	18.01	18.09				
Channel				3780	3800	3800				
Frequency (MHz)				3777.5	3800	3800				
10	QPSK	1	0	24.63	24.61	24.42	25.7			
10	QPSK	1	25	24.61	24.55	24.41				
10	QPSK	1	49	24.67	24.63	24.43				
10	QPSK	25	0	23.74	23.59	23.62	24.7			
10	QPSK	25	12	23.75	23.69	23.51				
10	QPSK	25	24	23.74	23.68	23.51				
10	QPSK	50	0	23.75	23.61	23.53	24.7			
10	16QAM	1	0	23.81	23.68	23.52				
10	16QAM	1	25	23.72	23.64	23.51				
10	16QAM	1	49	23.79	23.68	23.47	23.7			
10	16QAM	25	0	22.74	22.59	22.53				
10	16QAM	25	12	22.76	22.72	22.58				
10	16QAM	25	24	22.74	22.67	22.48	23.7			
10	16QAM	50	0	22.78	22.65	22.56				
10	64QAM	1	0	22.97	22.39	22.32				
10	64QAM	1	25	22.54	22.43	22.31	23.7			
10	64QAM	1	49	22.50	22.39	22.30				
10	64QAM	25	0	21.81	21.67	21.61				
10	64QAM	25	12	21.83	21.75	21.63	22.7			
10	64QAM	25	24	21.82	21.78	21.60				
10	64QAM	50	0	21.78	21.66	21.67				
10	256QAM	1	0	18.09	18.72	18.78	20.7			
10	256QAM	1	25	18.05	18.05	18.08				
10	256QAM	1	49	18.09	18.02	18.01				
10	256QAM	25	0	18.08	18.09	18.01	20.7			
10	256QAM	25	12	18.04	18.03	18.06				
10	256QAM	25	24	18.01	18.76	18.82				
10	256QAM	50	0	20.01	18.84	18.88	20.7			
Channel				3777.5	3800	3800				
Frequency (MHz)				3777.5	3800	3817.5				
5	QPSK	1	0	24.58	24.53	24.37	25.7			
5	QPSK	1	12	24.54	24.49	24.35				
5	QPSK	1	24	24.59	24.52	24.33				
5	QPSK	12	0	23.68	23.64	23.44	24.7			
5	QPSK	12	7	23.72	23.64	23.50				
5	QPSK	12	13	23.71	23.66	23.49				
5	QPSK	25	0	23.72	23.65	23.45	24.7			
5	16QAM	1	0	23.72	23.67	23.62				
5	16QAM	1	12	23.75	23.68	23.50				
5	16QAM	1	24	23.75	23.68	23.52	23.7			
5	16QAM	12	0	22.67	22.60	22.46				
5	16QAM	12	7	22.72	22.66	22.47				
5	16QAM	12	13	22.67	22.62	22.45	23.7			
5	16QAM	25	0	22.73	22.68	22.52				
5	64QAM	1	0	22.51	22.44	22.25				
5	64QAM	1	12	22.54	22.44	22.30	23.7			
5	64QAM	1	24	22.54	22.49	22.28				
5	64QAM	12	0	21.78	21.71	21.53				
5	64QAM	12	7	21.77	21.70	21.55	22.7			
5	64QAM	12	13	21.76	21.70	21.51				
5	64QAM	25	0	21.79	21.70	21.55				
5	256QAM	1	0	18.07	18.77	18.81	20.7			
5	256QAM	1	12	18.04	18.03	18.06				
5	256QAM	1	24	18.72	18.05	18.49				
5	256QAM	12	0	20.00	18.99	18.97	20.7			
5	256QAM	12	7	18.07	18.05	18.53				
5	256QAM	12	13	18.99	18.80	18.77				
5	256QAM	25	0	18.98	18.87	18.82	20.7			



Band 38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Power EIRP Ch / Freq	Take-up freq		
Channel				3850	3800	3850			
Frequency (MHz)				2980	2990	2980			
20	QPSK	1	0	2342	2333	2325			
20	QPSK	1	49	2342	2330	2327	20.2		
20	QPSK	1	99	2342	2328	2329			
20	QPSK	50	0	2259	2242	2240			
20	QPSK	50	24	2255	2240	2241	24.2		
20	QPSK	50	50	2255	2242	2240			
20	QPSK	100	0	2259	2241	2242			
20	16QAM	1	0	2257	2248	2249			
20	16QAM	1	49	2252	2248	2237	24.2		
20	16QAM	1	99	2257	2247	2244			
20	16QAM	50	0	2142	2145	2144			
20	16QAM	50	24	2159	2144	2144	20.2		
20	16QAM	50	50	2150	2144	2145			
20	16QAM	100	0	2152	2144	2144			
20	64QAM	1	0	2128	2122	2122			
20	64QAM	1	49	2133	2128	2125	20.2		
20	64QAM	1	99	2137	2128	2129			
20	64QAM	50	0	2045	2046	2044			
20	64QAM	50	24	2053	2047	2045	20.2		
20	64QAM	50	50	2059	2045	2044			
20	64QAM	100	0	2050	2042	2044			
20	256QAM	1	0	1846	1838	1838			
20	256QAM	1	49	1835	1828	1827	20.2		
20	256QAM	1	99	1834	1828	1824			
20	256QAM	50	0	1871	1852	1850			
20	256QAM	50	24	1856	1852	1852	20.2		
20	256QAM	50	50	1843	1839	1833			
20	256QAM	100	0	1842	1847	1848			
Channel				3777.5	3760	3777.5	Take-up freq		
Frequency (MHz)				2177.5	2160	2177.5			
15	QPSK	1	0	2138	2128	2121			
15	QPSK	1	49	2140	2128	2127	20.2		
15	QPSK	1	74	2134	2123	2127			
15	QPSK	36	0	2256	2234	2234			
15	QPSK	36	20	2252	2230	2230	24.2		
15	QPSK	36	39	2248	2242	2230			
15	QPSK	75	0	2249	2231	2229			
15	16QAM	1	0	2247	2242	2234			
15	16QAM	1	37	2242	2240	2240	24.2		
15	16QAM	1	74	2254	2239	2237			
15	16QAM	36	0	2159	2141	2144			
15	16QAM	36	20	2148	2137	2141	20.2		
15	16QAM	36	39	2158	2137	2139			
15	16QAM	75	0	2151	2144	2138			
15	64QAM	1	0	2125	2123	2121			
15	64QAM	1	37	2131	2123	2122	20.2		
15	64QAM	1	74	2135	2129	2128			
15	64QAM	36	0	2057	2044	2040			
15	64QAM	36	20	2051	2043	2037	20.2		
15	64QAM	36	39	2050	2045	2037			
15	64QAM	75	0	2054	2037	2039			
15	256QAM	1	0	1837	1837	1837			
15	256QAM	1	37	1831	1825	1825	20.2		
15	256QAM	1	74	1832	1823	1823			
15	256QAM	36	0	1851	1845	1846			
15	256QAM	36	20	1843	1847	1835	20.2		
15	256QAM	36	39	1853	1838	1831			
15	256QAM	75	0	1841	1847	1838			
Channel				3760	3800	3760	Take-up freq		
Frequency (MHz)				2980	2990	2980			
10	QPSK	1	0	2338	2327	2321			
10	QPSK	1	25	2334	2334	2327	20.2		
10	QPSK	1	49	2331	2328	2334			
10	QPSK	25	0	2255	2241	2238			
10	QPSK	25	12	2253	2239	2233	24.2		
10	QPSK	25	24	2253	2239	2233			
10	QPSK	50	0	2251	2238	2238			
10	16QAM	1	0	2247	2238	2231			
10	16QAM	1	25	2244	2239	2237	24.2		
10	16QAM	1	49	2254	2246	2234			
10	16QAM	25	0	2159	2143	2142			
10	16QAM	25	12	2155	2135	2134	20.2		
10	16QAM	25	24	2153	2144	2144			
10	16QAM	50	0	2152	2145	2142			
10	64QAM	1	0	2127	2122	2122			
10	64QAM	1	25	2127	2122	2122	20.2		
10	64QAM	1	49	2133	2121	2123			
10	64QAM	25	0	2062	2041	2035			
10	64QAM	25	12	2058	2042	2035	20.2		
10	64QAM	25	24	2052	2042	2038			
10	64QAM	50	0	2055	2038	2037			
10	256QAM	1	0	1839	1831	1832			
10	256QAM	1	25	1828	1824	1821	20.2		
10	256QAM	1	49	1831	1824	1822			
10	256QAM	25	0	1834	1842	1846			
10	256QAM	25	12	1834	1843	1835	20.2		
10	256QAM	25	24	1836	1835	1824			
10	256QAM	50	0	1838	1841	1845			
Channel				2992.5	3000	2992.5	Take-up freq		
Frequency (MHz)				2992.5	3000	2992.5			
5	QPSK	1	0	2339	2324	2325			
5	QPSK	1	12	2341	2329	2329	20.2		
5	QPSK	1	24	2332	2321	2321			
5	QPSK	12	0	2256	2234	2231			
5	QPSK	12	7	2248	2235	2235	24.2		
5	QPSK	12	13	2245	2232	2238			
5	QPSK	25	0	2253	2241	2237			
5	16QAM	1	0	2247	2242	2238			
5	16QAM	1	12	2244	2244	2238	24.2		
5	16QAM	1	24	2254	2242	2239			
5	16QAM	12	0	2154	2143	2137			
5	16QAM	12	7	2159	2138	2144	20.2		
5	16QAM	12	13	2159	2143	2135			
5	16QAM	25	0	2159	2140	2134			
5	64QAM	1	0	2130	2125	2122			
5	64QAM	1	12	2131	2123	2123	20.2		
5	64QAM	1	24	2130	2123	2121			
5	64QAM	12	0	2054	2035	2038			
5	64QAM	12	7	2056	2037	2035	20.2		
5	64QAM	12	13	2053	2046	2038			
5	64QAM	25	0	2040	2035	2042			
5	256QAM	1	0	1845	1837	1834			
5	256QAM	1	12	1838	1824	1827	20.2		
5	256QAM	1	24	1828	1820	1822			
5	256QAM	12	0	1843	1851	1846			
5	256QAM	12	7	1843	1842	1842	20.2		
5	256QAM	12	13	1836	1839	1827			
5	256QAM	25	0	1832	1829	1846			



n2_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				372000	376000	380000		
Frequency (MHz)				1860	1880	1900		
20	PI/2 BPSK	1	1	24.57	24.53	24.59	25.7	0.0
20	PI/2 BPSK	1	53	24.55	24.60	24.56		
20	PI/2 BPSK	1	104	24.57	24.69	24.57		
20	PI/2 BPSK	50	0	23.91	24.08	24.10	25.2	0.5
20	PI/2 BPSK	50	28	24.52	24.56	24.56	25.7	0.0
20	PI/2 BPSK	50	56	23.99	24.22	24.10	25.2	0.5
20	PI/2 BPSK	100	0	23.97	24.09	24.05		
20	QPSK	1	1	24.55	24.52	24.61	25.7	0.0
20	QPSK	1	53	24.56	24.66	24.58		
20	QPSK	1	104	24.56	24.67	24.56		
20	QPSK	50	0	23.38	23.57	23.56	24.7	1.0
20	QPSK	50	28	24.51	24.62	24.61	25.7	0.0
20	QPSK	50	56	23.50	23.58	23.55	24.7	1.0
20	QPSK	100	0	23.51	23.59	23.59		
20	16QAM	1	1	23.28	23.34	23.40	24.7	1.0
20	64QAM	1	1	21.92	21.94	22.08	23.2	2.5
20	256QAM	1	1	19.90	19.94	20.08	21.2	4.5
Channel				371500	376000	380500		
Frequency (MHz)				1857.5	1880	1902.5		
15	PI/2 BPSK	1	1	24.56	24.49	24.56	25.7	0.0
Channel				371000	376000	381000		
Frequency (MHz)				1855	1880	1905		
10	PI/2 BPSK	1	1	24.57	24.50	24.53	25.7	0.0
Channel				370500	376000	381500		
Frequency (MHz)				1852.5	1880	1907.5		
5	PI/2 BPSK	1	1	24.53	24.51	24.49	25.7	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)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.29	24.24	24.17	25.0
20	PI/2 BPSK	1	53	24.13	24.15	24.06	
20	PI/2 BPSK	1	104	23.96	23.37	23.10	
20	PI/2 BPSK	50	0	23.70	23.63	23.60	24.5
20	PI/2 BPSK	50	28	24.12	24.09	24.06	25.0
20	PI/2 BPSK	50	56	23.57	23.51	23.48	24.5
20	PI/2 BPSK	100	0	23.66	23.56	23.52	
20	QPSK	1	1	24.28	24.21	24.16	25.0
20	QPSK	1	53	24.13	24.10	24.04	
20	QPSK	1	104	23.99	23.91	23.40	
20	QPSK	50	0	23.19	23.20	23.11	24.0
20	QPSK	50	28	24.15	24.12	24.09	25.0
20	QPSK	50	56	23.07	23.04	22.97	24.0
20	QPSK	100	0	23.17	23.14	23.11	
20	16QAM	1	1	22.92	22.83	22.78	24.0
20	64QAM	1	1	21.88	21.80	21.75	22.5
20	256QAM	1	1	19.97	19.88	19.77	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.25	24.24	24.16	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.26	24.08	24.18	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.22	24.04	24.10	25.0



n12_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)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.91	23.91	23.87	24.7
15	PI/2 BPSK	1	40	23.77	23.72	23.71	
15	PI/2 BPSK	1	77	23.65	23.64	23.62	
15	PI/2 BPSK	36	0	23.25	23.29	23.26	24.2
15	PI/2 BPSK	36	22	23.70	23.67	23.62	24.7
15	PI/2 BPSK	36	43	23.16	23.08	23.10	24.2
15	PI/2 BPSK	75	0	23.22	23.23	23.19	
15	QPSK	1	1	23.78	23.86	23.72	24.7
15	QPSK	1	40	23.71	23.71	23.70	
15	QPSK	1	77	23.61	23.56	23.56	
15	QPSK	36	0	22.77	22.79	22.72	23.7
15	QPSK	36	22	23.65	23.65	23.60	24.7
15	QPSK	36	43	22.72	22.67	22.65	23.7
15	QPSK	75	0	22.72	22.67	22.70	
15	16QAM	1	1	22.52	22.46	22.44	23.7
15	64QAM	1	1	21.32	21.23	21.22	22.2
15	256QAM	1	1	19.66	19.62	19.61	20.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.81	23.65	23.77	24.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.72	23.65	23.81	24.7



n71_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)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.45	24.40	24.41	25.7
20	PI/2 BPSK	1	53	24.53	24.44	24.43	
20	PI/2 BPSK	1	104	24.39	24.36	24.23	
20	PI/2 BPSK	50	0	24.32	24.14	24.11	25.2
20	PI/2 BPSK	50	28	24.28	24.44	24.28	25.7
20	PI/2 BPSK	50	56	24.19	24.07	23.91	25.2
20	PI/2 BPSK	100	0	24.17	24.17	23.98	
20	QPSK	1	1	24.52	24.43	24.45	25.7
20	QPSK	1	53	24.37	24.36	24.19	
20	QPSK	1	104	24.33	24.28	24.02	
20	QPSK	50	0	23.95	23.76	23.85	24.7
20	QPSK	50	28	24.52	24.41	24.31	25.7
20	QPSK	50	56	23.84	23.76	23.63	24.7
20	QPSK	100	0	23.85	23.83	23.77	
20	16QAM	1	1	23.41	23.38	23.53	24.7
20	64QAM	1	1	22.46	22.24	22.23	23.2
20	256QAM	1	1	20.79	20.58	20.53	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.39	24.43	24.29	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.31	24.42	24.36	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.43	24.43	24.26	25.7



n25_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)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	24.34	24.46	24.53	25.7
20	PI/2 BPSK	1	53	24.34	24.52	24.48	
20	PI/2 BPSK	1	104	24.36	24.50	24.37	
20	PI/2 BPSK	50	0	23.78	23.89	24.00	25.2
20	PI/2 BPSK	50	28	24.34	24.44	24.46	25.7
20	PI/2 BPSK	50	56	23.79	23.97	23.94	25.2
20	PI/2 BPSK	100	0	23.83	24.01	23.96	
20	QPSK	1	1	24.34	24.52	24.49	25.7
20	QPSK	1	53	24.42	24.47	24.52	
20	QPSK	1	104	24.34	24.46	24.37	
20	QPSK	50	0	23.28	23.44	23.50	24.7
20	QPSK	50	28	24.36	24.51	24.48	25.7
20	QPSK	50	56	23.29	23.47	23.44	24.7
20	QPSK	100	0	23.35	23.48	23.52	
20	16QAM	1	1	23.14	23.32	23.31	24.7
20	64QAM	1	1	21.80	21.94	21.99	23.2
20	256QAM	1	1	19.78	19.98	20.08	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	24.34	24.45	24.50	25.7
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	24.32	24.39	24.52	25.7
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	24.24	24.40	24.51	25.7



n66_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)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.95	24.54	24.54	
20	PI/2 BPSK	1	53	24.51	24.56	24.29	25.7
20	PI/2 BPSK	1	104	24.55	24.49	24.45	
20	PI/2 BPSK	50	0	23.97	23.95	23.72	25.2
20	PI/2 BPSK	50	28	24.45	24.48	24.35	25.7
20	PI/2 BPSK	50	56	23.91	23.93	23.89	25.2
20	PI/2 BPSK	100	0	23.97	23.97	23.95	
20	QPSK	1	1	23.87	24.49	24.55	25.7
20	QPSK	1	53	24.53	24.55	24.16	
20	QPSK	1	104	24.51	24.55	24.48	
20	QPSK	50	0	23.54	23.44	23.47	24.7
20	QPSK	50	28	24.47	24.48	24.20	25.7
20	QPSK	50	56	23.44	23.45	23.41	24.7
20	QPSK	100	0	23.51	23.54	23.44	
20	16QAM	1	1	22.77	23.44	23.57	24.7
20	64QAM	1	1	22.15	22.08	22.13	23.2
20	256QAM	1	1	20.15	20.09	20.09	21.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.85	24.51	24.51	25.7
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.92	24.50	24.47	25.7
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.86	24.45	24.47	25.7



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)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.89	23.89	23.95	25.5
20	PI/2 BPSK	1	53	23.87	23.96	23.92	
20	PI/2 BPSK	1	104	23.93	23.99	23.91	
20	PI/2 BPSK	50	0	23.37	23.32	23.41	25.0
20	PI/2 BPSK	50	28	23.86	23.93	23.91	25.5
20	PI/2 BPSK	50	56	23.34	23.40	23.41	25.0
20	PI/2 BPSK	100	0	23.34	23.44	23.40	
20	QPSK	1	1	23.75	23.86	23.87	25.5
20	QPSK	1	53	23.72	23.93	23.85	
20	QPSK	1	104	23.76	23.92	23.80	
20	QPSK	50	0	22.79	22.83	22.93	24.5
20	QPSK	50	28	23.83	23.97	23.94	25.5
20	QPSK	50	56	22.88	22.98	22.90	24.5
20	QPSK	100	0	22.93	22.99	22.90	
20	16QAM	1	1	22.61	22.60	22.65	24.5
20	64QAM	1	1	21.48	21.44	21.43	23.0
20	256QAM	1	1	19.44	19.62	19.67	21.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.82	23.85	23.90	25.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.86	23.80	23.87	25.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.85	23.83	23.92	25.5



n5_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.54	23.51	23.44	25.0
20	PI/2 BPSK	1	53	23.40	23.37	23.30	
20	PI/2 BPSK	1	104	22.83	22.16	22.00	
20	PI/2 BPSK	50	0	22.92	22.88	22.79	24.5
20	PI/2 BPSK	50	28	23.39	23.30	23.23	25.0
20	PI/2 BPSK	50	56	22.77	22.71	22.67	24.5
20	PI/2 BPSK	100	0	22.85	22.77	22.77	
20	QPSK	1	1	23.42	23.44	23.38	
20	QPSK	1	53	23.33	23.29	23.22	25.0
20	QPSK	1	104	22.84	22.15	21.99	
20	QPSK	50	0	22.40	22.36	22.32	
20	QPSK	50	28	23.38	23.30	23.26	25.0
20	QPSK	50	56	22.30	22.23	22.14	24.0
20	QPSK	100	0	22.38	22.34	22.29	
20	16QAM	1	1	22.58	22.54	22.47	
20	64QAM	1	1	20.98	20.93	20.85	22.5
20	256QAM	1	1	19.14	19.08	18.94	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.44	23.49	23.36	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.53	23.49	23.34	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.49	23.43	23.34	25.0



n12_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)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.11	22.16	22.09	23.0
15	PI/2 BPSK	1	40	22.07	22.02	22.00	
15	PI/2 BPSK	1	77	21.91	21.90	21.85	
15	PI/2 BPSK	36	0	21.98	22.07	21.92	23.0
15	PI/2 BPSK	36	22	21.99	21.92	21.94	23.0
15	PI/2 BPSK	36	43	21.91	21.93	21.89	23.0
15	PI/2 BPSK	75	0	22.00	21.97	21.97	
15	QPSK	1	1	22.10	22.11	22.08	
15	QPSK	1	40	21.94	22.05	22.06	23.0
15	QPSK	1	77	21.96	21.90	21.92	
15	QPSK	36	0	21.98	22.01	21.96	
15	QPSK	36	22	22.00	21.99	21.97	23.0
15	QPSK	36	43	21.94	21.88	21.90	23.0
15	QPSK	75	0	22.04	22.03	21.97	
15	16QAM	1	1	22.03	22.02	22.01	
15	64QAM	1	1	21.21	21.24	21.18	22.5
15	256QAM	1	1	19.54	19.52	19.48	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.09	22.13	22.08	23.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.02	22.06	22.05	23.0



n71_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)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.48	23.43	23.41	25.0
20	PI/2 BPSK	1	53	23.43	23.36	23.28	
20	PI/2 BPSK	1	104	23.29	23.23	23.00	
20	PI/2 BPSK	50	0	22.89	22.80	22.71	24.5
20	PI/2 BPSK	50	28	23.38	23.30	23.14	25.0
20	PI/2 BPSK	50	56	22.84	22.65	22.52	24.5
20	PI/2 BPSK	100	0	22.89	22.79	22.63	
20	QPSK	1	1	23.34	23.34	23.37	
20	QPSK	1	53	23.21	23.29	23.13	25.0
20	QPSK	1	104	23.24	23.15	22.86	
20	QPSK	50	0	22.64	22.47	22.49	
20	QPSK	50	28	23.40	23.28	23.17	25.0
20	QPSK	50	56	22.49	22.42	22.22	24.0
20	QPSK	100	0	22.57	22.48	22.42	
20	16QAM	1	1	22.47	22.62	22.57	
20	64QAM	1	1	21.19	21.03	20.91	22.5
20	256QAM	1	1	19.27	19.05	19.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.45	23.38	23.34	25.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.38	23.35	23.41	25.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.40	23.37	23.35	25.0



n25_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)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.74	23.78	23.82	25.5
20	PI/2 BPSK	1	53	23.70	23.83	23.77	
20	PI/2 BPSK	1	104	23.82	23.83	23.79	
20	PI/2 BPSK	50	0	23.22	23.32	23.29	25.0
20	PI/2 BPSK	50	28	23.66	23.81	23.76	25.5
20	PI/2 BPSK	50	56	23.22	23.38	23.24	25.0
20	PI/2 BPSK	100	0	23.17	23.31	23.27	
20	QPSK	1	1	23.61	23.76	23.79	25.5
20	QPSK	1	53	23.62	23.76	23.71	
20	QPSK	1	104	23.60	23.76	23.73	
20	QPSK	50	0	22.64	22.83	22.82	24.5
20	QPSK	50	28	23.72	23.82	23.77	25.5
20	QPSK	50	56	22.72	22.77	22.76	24.5
20	QPSK	100	0	22.73	22.88	22.82	
20	16QAM	1	1	22.45	22.53	22.54	24.5
20	64QAM	1	1	21.36	21.43	21.30	23.0
20	256QAM	1	1	19.31	19.50	19.58	21.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.72	23.78	23.81	25.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.70	23.71	23.81	25.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.73	23.72	23.79	25.5



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)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.85	23.87	23.84	
20	PI/2 BPSK	1	53	23.76	23.83	23.75	
20	PI/2 BPSK	1	104	23.76	23.86	23.70	
20	PI/2 BPSK	50	0	23.29	23.33	23.31	25.0
20	PI/2 BPSK	50	28	23.72	23.78	23.73	25.5
20	PI/2 BPSK	50	56	23.28	23.23	23.15	25.0
20	PI/2 BPSK	100	0	23.26	23.26	23.27	
20	QPSK	1	1	23.71	23.70	23.76	
20	QPSK	1	53	23.69	23.74	23.70	25.5
20	QPSK	1	104	23.69	23.77	23.63	
20	QPSK	50	0	22.75	22.82	22.81	
20	QPSK	50	28	23.77	23.78	23.76	25.5
20	QPSK	50	56	22.80	22.76	22.69	24.5
20	QPSK	100	0	22.79	22.84	22.77	
20	16QAM	1	1	22.54	22.48	22.48	
20	64QAM	1	1	21.34	21.28	21.23	23.0
20	256QAM	1	1	19.52	19.48	19.58	21.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.77	23.80	23.83	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.81	23.77	23.83	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.79	23.85	23.82	25.5



n2_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)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.57	24.53	24.59	25.7
20	PI/2 BPSK	1	53	24.55	24.60	24.56	
20	PI/2 BPSK	1	104	24.57	24.69	24.57	
20	PI/2 BPSK	50	0	23.91	24.08	24.10	25.2
20	PI/2 BPSK	50	28	24.52	24.56	24.56	25.7
20	PI/2 BPSK	50	56	23.99	24.22	24.10	25.2
20	PI/2 BPSK	100	0	23.97	24.09	24.05	
20	QPSK	1	1	24.55	24.52	24.61	25.7
20	QPSK	1	53	24.56	24.66	24.58	
20	QPSK	1	104	24.56	24.67	24.56	
20	QPSK	50	0	23.38	23.57	23.56	24.7
20	QPSK	50	28	24.51	24.62	24.61	25.7
20	QPSK	50	56	23.50	23.58	23.55	24.7
20	QPSK	100	0	23.51	23.59	23.59	
20	16QAM	1	1	23.28	23.34	23.40	24.7
20	64QAM	1	1	21.92	21.94	22.08	23.2
20	256QAM	1	1	19.90	19.94	20.08	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.56	24.49	24.56	25.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.57	24.50	24.53	25.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.53	24.51	24.49	25.7



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)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.29	24.24	24.17	25.0
20	PI/2 BPSK	1	53	24.13	24.15	24.06	
20	PI/2 BPSK	1	104	23.96	23.37	23.10	
20	PI/2 BPSK	50	0	23.70	23.63	23.60	24.5
20	PI/2 BPSK	50	28	24.12	24.09	24.06	25.0
20	PI/2 BPSK	50	56	23.57	23.51	23.48	24.5
20	PI/2 BPSK	100	0	23.66	23.56	23.52	
20	QPSK	1	1	24.28	24.21	24.16	25.0
20	QPSK	1	53	24.13	24.10	24.04	
20	QPSK	1	104	23.99	23.91	23.40	
20	QPSK	50	0	23.19	23.20	23.11	24.0
20	QPSK	50	28	24.15	24.12	24.09	25.0
20	QPSK	50	56	23.07	23.04	22.97	24.0
20	QPSK	100	0	23.17	23.14	23.11	
20	16QAM	1	1	22.92	22.83	22.78	24.0
20	64QAM	1	1	21.88	21.80	21.75	22.5
20	256QAM	1	1	19.97	19.88	19.77	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.25	24.24	24.16	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.26	24.08	24.18	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.22	24.04	24.10	25.0



n12_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)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.91	23.91	23.87	24.7
15	PI/2 BPSK	1	40	23.77	23.72	23.71	
15	PI/2 BPSK	1	77	23.65	23.64	23.62	
15	PI/2 BPSK	36	0	23.25	23.29	23.26	24.2
15	PI/2 BPSK	36	22	23.70	23.67	23.62	24.7
15	PI/2 BPSK	36	43	23.16	23.08	23.10	24.2
15	PI/2 BPSK	75	0	23.22	23.23	23.19	
15	QPSK	1	1	23.78	23.86	23.72	24.7
15	QPSK	1	40	23.71	23.71	23.70	
15	QPSK	1	77	23.61	23.56	23.56	
15	QPSK	36	0	22.77	22.79	22.72	23.7
15	QPSK	36	22	23.65	23.65	23.60	24.7
15	QPSK	36	43	22.72	22.67	22.65	23.7
15	QPSK	75	0	22.72	22.67	22.70	
15	16QAM	1	1	22.52	22.46	22.44	23.7
15	64QAM	1	1	21.32	21.23	21.22	22.2
15	256QAM	1	1	19.66	19.62	19.61	20.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.81	23.65	23.77	24.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.72	23.65	23.81	24.7



n71_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)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.45	24.40	24.41	25.7
20	PI/2 BPSK	1	53	24.53	24.44	24.43	
20	PI/2 BPSK	1	104	24.39	24.36	24.23	
20	PI/2 BPSK	50	0	24.32	24.14	24.11	25.2
20	PI/2 BPSK	50	28	24.28	24.44	24.28	25.7
20	PI/2 BPSK	50	56	24.19	24.07	23.91	25.2
20	PI/2 BPSK	100	0	24.17	24.17	23.98	
20	QPSK	1	1	24.52	24.43	24.45	
20	QPSK	1	53	24.37	24.36	24.19	25.7
20	QPSK	1	104	24.33	24.28	24.02	
20	QPSK	50	0	23.95	23.76	23.85	
20	QPSK	50	28	24.52	24.41	24.31	25.7
20	QPSK	50	56	23.84	23.76	23.63	24.7
20	QPSK	100	0	23.85	23.83	23.77	
20	16QAM	1	1	23.41	23.38	23.53	
20	64QAM	1	1	22.46	22.24	22.23	23.2
20	256QAM	1	1	20.79	20.58	20.53	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.39	24.43	24.29	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.31	24.42	24.36	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.43	24.43	24.26	25.7



n25_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)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	24.34	24.46	24.53	25.7
20	PI/2 BPSK	1	53	24.34	24.52	24.48	
20	PI/2 BPSK	1	104	24.36	24.50	24.37	
20	PI/2 BPSK	50	0	23.78	23.89	24.00	25.2
20	PI/2 BPSK	50	28	24.34	24.44	24.46	25.7
20	PI/2 BPSK	50	56	23.79	23.97	23.94	25.2
20	PI/2 BPSK	100	0	23.83	24.01	23.96	
20	QPSK	1	1	24.34	24.52	24.49	25.7
20	QPSK	1	53	24.42	24.47	24.52	
20	QPSK	1	104	24.34	24.46	24.37	
20	QPSK	50	0	23.28	23.44	23.50	24.7
20	QPSK	50	28	24.36	24.51	24.48	25.7
20	QPSK	50	56	23.29	23.47	23.44	24.7
20	QPSK	100	0	23.35	23.48	23.52	
20	16QAM	1	1	23.14	23.32	23.31	24.7
20	64QAM	1	1	21.80	21.94	21.99	23.2
20	256QAM	1	1	19.78	19.98	20.08	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	24.34	24.45	24.50	25.7
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	24.32	24.39	24.52	25.7
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	24.24	24.40	24.51	25.7



n66_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)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.95	24.54	24.54	
20	PI/2 BPSK	1	53	24.51	24.56	24.29	25.7
20	PI/2 BPSK	1	104	24.55	24.49	24.45	
20	PI/2 BPSK	50	0	23.97	23.95	23.72	25.2
20	PI/2 BPSK	50	28	24.45	24.48	24.35	25.7
20	PI/2 BPSK	50	56	23.91	23.93	23.89	25.2
20	PI/2 BPSK	100	0	23.97	23.97	23.95	
20	QPSK	1	1	23.87	24.49	24.55	25.7
20	QPSK	1	53	24.53	24.55	24.16	
20	QPSK	1	104	24.51	24.55	24.48	
20	QPSK	50	0	23.54	23.44	23.47	24.7
20	QPSK	50	28	24.47	24.48	24.20	25.7
20	QPSK	50	56	23.44	23.45	23.41	24.7
20	QPSK	100	0	23.51	23.54	23.44	
20	16QAM	1	1	22.77	23.44	23.57	24.7
20	64QAM	1	1	22.15	22.08	22.13	23.2
20	256QAM	1	1	20.15	20.09	20.09	21.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.85	24.51	24.51	25.7
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.92	24.50	24.47	25.7
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.86	24.45	24.47	25.7



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)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.89	23.89	23.95	25.5
20	PI/2 BPSK	1	53	23.87	23.96	23.92	
20	PI/2 BPSK	1	104	23.93	23.99	23.91	
20	PI/2 BPSK	50	0	23.37	23.32	23.41	25.0
20	PI/2 BPSK	50	28	23.86	23.93	23.91	25.5
20	PI/2 BPSK	50	56	23.34	23.40	23.41	25.0
20	PI/2 BPSK	100	0	23.34	23.44	23.40	
20	QPSK	1	1	23.75	23.86	23.87	25.5
20	QPSK	1	53	23.72	23.93	23.85	
20	QPSK	1	104	23.76	23.92	23.80	
20	QPSK	50	0	22.79	22.83	22.93	24.5
20	QPSK	50	28	23.83	23.97	23.94	25.5
20	QPSK	50	56	22.88	22.98	22.90	24.5
20	QPSK	100	0	22.93	22.99	22.90	
20	16QAM	1	1	22.61	22.60	22.65	24.5
20	64QAM	1	1	21.48	21.44	21.43	23.0
20	256QAM	1	1	19.44	19.62	19.67	21.0
Channel				371500	376000	380500	
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.82	23.85	23.90	25.5
Channel				371000	376000	381000	
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.86	23.80	23.87	25.5
Channel				370500	376000	381500	
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.85	23.83	23.92	25.5



n5_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.54	23.51	23.44	25.0
20	PI/2 BPSK	1	53	23.40	23.37	23.30	
20	PI/2 BPSK	1	104	22.83	22.16	22.00	
20	PI/2 BPSK	50	0	22.92	22.88	22.79	24.5
20	PI/2 BPSK	50	28	23.39	23.30	23.23	25.0
20	PI/2 BPSK	50	56	22.77	22.71	22.67	24.5
20	PI/2 BPSK	100	0	22.85	22.77	22.77	
20	QPSK	1	1	23.42	23.44	23.38	25.0
20	QPSK	1	53	23.33	23.29	23.22	
20	QPSK	1	104	22.84	22.15	21.99	
20	QPSK	50	0	22.40	22.36	22.32	24.0
20	QPSK	50	28	23.38	23.30	23.26	25.0
20	QPSK	50	56	22.30	22.23	22.14	24.0
20	QPSK	100	0	22.38	22.34	22.29	
20	16QAM	1	1	22.58	22.54	22.47	24.0
20	64QAM	1	1	20.98	20.93	20.85	22.5
20	256QAM	1	1	19.14	19.08	18.94	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.44	23.49	23.36	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.53	23.49	23.34	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.49	23.43	23.34	25.0



n12_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)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.11	22.16	22.09	23.0
15	PI/2 BPSK	1	40	22.07	22.02	22.00	
15	PI/2 BPSK	1	77	21.91	21.90	21.85	
15	PI/2 BPSK	36	0	21.98	22.07	21.92	23.0
15	PI/2 BPSK	36	22	21.99	21.92	21.94	23.0
15	PI/2 BPSK	36	43	21.91	21.93	21.89	23.0
15	PI/2 BPSK	75	0	22.00	21.97	21.97	
15	QPSK	1	1	22.10	22.11	22.08	
15	QPSK	1	40	21.94	22.05	22.06	23.0
15	QPSK	1	77	21.96	21.90	21.92	
15	QPSK	36	0	21.98	22.01	21.96	
15	QPSK	36	22	22.00	21.99	21.97	23.0
15	QPSK	36	43	21.94	21.88	21.90	23.0
15	QPSK	75	0	22.04	22.03	21.97	
15	16QAM	1	1	22.03	22.02	22.01	
15	64QAM	1	1	21.21	21.24	21.18	22.5
	256QAM	1	1	19.54	19.52	19.48	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.09	22.13	22.08	23.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.02	22.06	22.05	23.0



n71_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)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.48	23.43	23.41	25.0
20	PI/2 BPSK	1	53	23.43	23.36	23.28	
20	PI/2 BPSK	1	104	23.29	23.23	23.00	
20	PI/2 BPSK	50	0	22.89	22.80	22.71	24.5
20	PI/2 BPSK	50	28	23.38	23.30	23.14	25.0
20	PI/2 BPSK	50	56	22.84	22.65	22.52	24.5
20	PI/2 BPSK	100	0	22.89	22.79	22.63	
20	QPSK	1	1	23.34	23.34	23.37	
20	QPSK	1	53	23.21	23.29	23.13	25.0
20	QPSK	1	104	23.24	23.15	22.86	
20	QPSK	50	0	22.64	22.47	22.49	
20	QPSK	50	28	23.40	23.28	23.17	25.0
20	QPSK	50	56	22.49	22.42	22.22	24.0
20	QPSK	100	0	22.57	22.48	22.42	
20	16QAM	1	1	22.47	22.62	22.57	
20	64QAM	1	1	21.19	21.03	20.91	22.5
20	256QAM	1	1	19.27	19.05	19.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.45	23.38	23.34	25.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.38	23.35	23.41	25.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.40	23.37	23.35	25.0



n25_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)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.74	23.78	23.82	25.5
20	PI/2 BPSK	1	53	23.70	23.83	23.77	
20	PI/2 BPSK	1	104	23.82	23.83	23.79	
20	PI/2 BPSK	50	0	23.22	23.32	23.29	25.0
20	PI/2 BPSK	50	28	23.66	23.81	23.76	25.5
20	PI/2 BPSK	50	56	23.22	23.38	23.24	25.0
20	PI/2 BPSK	100	0	23.17	23.31	23.27	
20	QPSK	1	1	23.61	23.76	23.79	25.5
20	QPSK	1	53	23.62	23.76	23.71	
20	QPSK	1	104	23.60	23.76	23.73	
20	QPSK	50	0	22.64	22.83	22.82	24.5
20	QPSK	50	28	23.72	23.82	23.77	25.5
20	QPSK	50	56	22.72	22.77	22.76	24.5
20	QPSK	100	0	22.73	22.88	22.82	
20	16QAM	1	1	22.45	22.53	22.54	24.5
20	64QAM	1	1	21.36	21.43	21.30	23.0
20	256QAM	1	1	19.31	19.50	19.58	21.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.72	23.78	23.81	25.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.70	23.71	23.81	25.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.73	23.72	23.79	25.5



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)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.85	23.87	23.84	
20	PI/2 BPSK	1	53	23.76	23.83	23.75	
20	PI/2 BPSK	1	104	23.76	23.86	23.70	
20	PI/2 BPSK	50	0	23.29	23.33	23.31	25.0
20	PI/2 BPSK	50	28	23.72	23.78	23.73	25.5
20	PI/2 BPSK	50	56	23.28	23.23	23.15	25.0
20	PI/2 BPSK	100	0	23.26	23.26	23.27	
20	QPSK	1	1	23.71	23.70	23.76	
20	QPSK	1	53	23.69	23.74	23.70	25.5
20	QPSK	1	104	23.69	23.77	23.63	
20	QPSK	50	0	22.75	22.82	22.81	
20	QPSK	50	28	23.77	23.78	23.76	25.5
20	QPSK	50	56	22.80	22.76	22.69	24.5
20	QPSK	100	0	22.79	22.84	22.77	
20	16QAM	1	1	22.54	22.48	22.48	
20	64QAM	1	1	21.34	21.28	21.23	23.0
20	256QAM	1	1	19.52	19.48	19.58	21.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.77	23.80	23.83	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.81	23.77	23.83	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.79	23.85	23.82	25.5



n2_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)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.57	24.53	24.59	25.7
20	PI/2 BPSK	1	53	24.55	24.60	24.56	
20	PI/2 BPSK	1	104	24.57	24.69	24.57	
20	PI/2 BPSK	50	0	23.91	24.08	24.10	25.2
20	PI/2 BPSK	50	28	24.52	24.56	24.56	25.7
20	PI/2 BPSK	50	56	23.99	24.22	24.10	25.2
20	PI/2 BPSK	100	0	23.97	24.09	24.05	
20	QPSK	1	1	24.55	24.52	24.61	25.7
20	QPSK	1	53	24.56	24.66	24.58	
20	QPSK	1	104	24.56	24.67	24.56	
20	QPSK	50	0	23.38	23.57	23.56	24.7
20	QPSK	50	28	24.51	24.62	24.61	25.7
20	QPSK	50	56	23.50	23.58	23.55	24.7
20	QPSK	100	0	23.51	23.59	23.59	
20	16QAM	1	1	23.28	23.34	23.40	24.7
20	64QAM	1	1	21.92	21.94	22.08	23.2
20	256QAM	1	1	19.90	19.94	20.08	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.56	24.49	24.56	25.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.57	24.50	24.53	25.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.53	24.51	24.49	25.7



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)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.29	24.24	24.17	25.0
20	PI/2 BPSK	1	53	24.13	24.15	24.06	
20	PI/2 BPSK	1	104	23.96	23.37	23.10	
20	PI/2 BPSK	50	0	23.70	23.63	23.60	24.5
20	PI/2 BPSK	50	28	24.12	24.09	24.06	25.0
20	PI/2 BPSK	50	56	23.57	23.51	23.48	24.5
20	PI/2 BPSK	100	0	23.66	23.56	23.52	
20	QPSK	1	1	24.28	24.21	24.16	25.0
20	QPSK	1	53	24.13	24.10	24.04	
20	QPSK	1	104	23.99	23.91	23.40	
20	QPSK	50	0	23.19	23.20	23.11	24.0
20	QPSK	50	28	24.15	24.12	24.09	25.0
20	QPSK	50	56	23.07	23.04	22.97	24.0
20	QPSK	100	0	23.17	23.14	23.11	
20	16QAM	1	1	22.92	22.83	22.78	24.0
20	64QAM	1	1	21.88	21.80	21.75	22.5
20	256QAM	1	1	19.97	19.88	19.77	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.25	24.24	24.16	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.26	24.08	24.18	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.22	24.04	24.10	25.0



n12_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)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.91	23.91	23.87	24.7
15	PI/2 BPSK	1	40	23.77	23.72	23.71	
15	PI/2 BPSK	1	77	23.65	23.64	23.62	
15	PI/2 BPSK	36	0	23.25	23.29	23.26	24.2
15	PI/2 BPSK	36	22	23.70	23.67	23.62	24.7
15	PI/2 BPSK	36	43	23.16	23.08	23.10	24.2
15	PI/2 BPSK	75	0	23.22	23.23	23.19	
15	QPSK	1	1	23.78	23.86	23.72	24.7
15	QPSK	1	40	23.71	23.71	23.70	
15	QPSK	1	77	23.61	23.56	23.56	
15	QPSK	36	0	22.77	22.79	22.72	23.7
15	QPSK	36	22	23.65	23.65	23.60	24.7
15	QPSK	36	43	22.72	22.67	22.65	23.7
15	QPSK	75	0	22.72	22.67	22.70	
15	16QAM	1	1	22.52	22.46	22.44	23.7
15	64QAM	1	1	21.32	21.23	21.22	22.2
15	256QAM	1	1	19.66	19.62	19.61	20.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.81	23.65	23.77	24.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.72	23.65	23.81	24.7



n71_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)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.45	24.40	24.41	25.7
20	PI/2 BPSK	1	53	24.53	24.44	24.43	
20	PI/2 BPSK	1	104	24.39	24.36	24.23	
20	PI/2 BPSK	50	0	24.32	24.14	24.11	25.2
20	PI/2 BPSK	50	28	24.28	24.44	24.28	25.7
20	PI/2 BPSK	50	56	24.19	24.07	23.91	25.2
20	PI/2 BPSK	100	0	24.17	24.17	23.98	
20	QPSK	1	1	24.52	24.43	24.45	
20	QPSK	1	53	24.37	24.36	24.19	25.7
20	QPSK	1	104	24.33	24.28	24.02	
20	QPSK	50	0	23.95	23.76	23.85	
20	QPSK	50	28	24.52	24.41	24.31	25.7
20	QPSK	50	56	23.84	23.76	23.63	24.7
20	QPSK	100	0	23.85	23.83	23.77	
20	16QAM	1	1	23.41	23.38	23.53	
20	64QAM	1	1	22.46	22.24	22.23	23.2
20	256QAM	1	1	20.79	20.58	20.53	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.39	24.43	24.29	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.31	24.42	24.36	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.43	24.43	24.26	25.7



n25_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)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	24.34	24.46	24.53	25.7
20	PI/2 BPSK	1	53	24.34	24.52	24.48	
20	PI/2 BPSK	1	104	24.36	24.50	24.37	
20	PI/2 BPSK	50	0	23.78	23.89	24.00	25.2
20	PI/2 BPSK	50	28	24.34	24.44	24.46	25.7
20	PI/2 BPSK	50	56	23.79	23.97	23.94	25.2
20	PI/2 BPSK	100	0	23.83	24.01	23.96	
20	QPSK	1	1	24.34	24.52	24.49	25.7
20	QPSK	1	53	24.42	24.47	24.52	
20	QPSK	1	104	24.34	24.46	24.37	
20	QPSK	50	0	23.28	23.44	23.50	24.7
20	QPSK	50	28	24.36	24.51	24.48	25.7
20	QPSK	50	56	23.29	23.47	23.44	24.7
20	QPSK	100	0	23.35	23.48	23.52	
20	16QAM	1	1	23.14	23.32	23.31	24.7
20	64QAM	1	1	21.80	21.94	21.99	23.2
20	256QAM	1	1	19.78	19.98	20.08	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	24.34	24.45	24.50	25.7
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	24.32	24.39	24.52	25.7
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	24.24	24.40	24.51	25.7



n66_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)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.95	24.54	24.54	
20	PI/2 BPSK	1	53	24.51	24.56	24.29	25.7
20	PI/2 BPSK	1	104	24.55	24.49	24.45	
20	PI/2 BPSK	50	0	23.97	23.95	23.72	25.2
20	PI/2 BPSK	50	28	24.45	24.48	24.35	25.7
20	PI/2 BPSK	50	56	23.91	23.93	23.89	25.2
20	PI/2 BPSK	100	0	23.97	23.97	23.95	
20	QPSK	1	1	23.87	24.49	24.55	25.7
20	QPSK	1	53	24.53	24.55	24.16	
20	QPSK	1	104	24.51	24.55	24.48	
20	QPSK	50	0	23.54	23.44	23.47	24.7
20	QPSK	50	28	24.47	24.48	24.20	25.7
20	QPSK	50	56	23.44	23.45	23.41	24.7
20	QPSK	100	0	23.51	23.54	23.44	
20	16QAM	1	1	22.77	23.44	23.57	24.7
20	64QAM	1	1	22.15	22.08	22.13	23.2
20	256QAM	1	1	20.15	20.09	20.09	21.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.85	24.51	24.51	25.7
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.92	24.50	24.47	25.7
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.86	24.45	24.47	25.7



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)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.89	23.89	23.95	25.5
20	PI/2 BPSK	1	53	23.87	23.96	23.92	
20	PI/2 BPSK	1	104	23.93	23.99	23.91	
20	PI/2 BPSK	50	0	23.37	23.32	23.41	25.0
20	PI/2 BPSK	50	28	23.86	23.93	23.91	25.5
20	PI/2 BPSK	50	56	23.34	23.40	23.41	25.0
20	PI/2 BPSK	100	0	23.34	23.44	23.40	
20	QPSK	1	1	23.75	23.86	23.87	25.5
20	QPSK	1	53	23.72	23.93	23.85	
20	QPSK	1	104	23.76	23.92	23.80	
20	QPSK	50	0	22.79	22.83	22.93	24.5
20	QPSK	50	28	23.83	23.97	23.94	25.5
20	QPSK	50	56	22.88	22.98	22.90	24.5
20	QPSK	100	0	22.93	22.99	22.90	
20	16QAM	1	1	22.61	22.60	22.65	24.5
20	64QAM	1	1	21.48	21.44	21.43	23.0
20	256QAM	1	1	19.44	19.62	19.67	21.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.82	23.85	23.90	25.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.86	23.80	23.87	25.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.85	23.83	23.92	25.5



n5_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.54	23.51	23.44	25.0
20	PI/2 BPSK	1	53	23.40	23.37	23.30	
20	PI/2 BPSK	1	104	22.83	22.16	22.00	
20	PI/2 BPSK	50	0	22.92	22.88	22.79	24.5
20	PI/2 BPSK	50	28	23.39	23.30	23.23	25.0
20	PI/2 BPSK	50	56	22.77	22.71	22.67	24.5
20	PI/2 BPSK	100	0	22.85	22.77	22.77	
20	QPSK	1	1	23.42	23.44	23.38	
20	QPSK	1	53	23.33	23.29	23.22	25.0
20	QPSK	1	104	22.84	22.15	21.99	
20	QPSK	50	0	22.40	22.36	22.32	
20	QPSK	50	28	23.38	23.30	23.26	25.0
20	QPSK	50	56	22.30	22.23	22.14	24.0
20	QPSK	100	0	22.38	22.34	22.29	
20	16QAM	1	1	22.58	22.54	22.47	
20	64QAM	1	1	20.98	20.93	20.85	22.5
20	256QAM	1	1	19.14	19.08	18.94	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.44	23.49	23.36	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.53	23.49	23.34	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.49	23.43	23.34	25.0



n12_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)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.11	22.16	22.09	23.0
15	PI/2 BPSK	1	40	22.07	22.02	22.00	
15	PI/2 BPSK	1	77	21.91	21.90	21.85	
15	PI/2 BPSK	36	0	21.98	22.07	21.92	23.0
15	PI/2 BPSK	36	22	21.99	21.92	21.94	23.0
15	PI/2 BPSK	36	43	21.91	21.93	21.89	23.0
15	PI/2 BPSK	75	0	22.00	21.97	21.97	
15	QPSK	1	1	22.10	22.11	22.08	
15	QPSK	1	40	21.94	22.05	22.06	23.0
15	QPSK	1	77	21.96	21.90	21.92	
15	QPSK	36	0	21.98	22.01	21.96	
15	QPSK	36	22	22.00	21.99	21.97	23.0
15	QPSK	36	43	21.94	21.88	21.90	23.0
15	QPSK	75	0	22.04	22.03	21.97	
15	16QAM	1	1	22.03	22.02	22.01	
15	64QAM	1	1	21.21	21.24	21.18	22.5
	256QAM	1	1	19.54	19.52	19.48	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.09	22.13	22.08	23.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.02	22.06	22.05	23.0



n71_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)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.48	23.43	23.41	25.0
20	PI/2 BPSK	1	53	23.43	23.36	23.28	
20	PI/2 BPSK	1	104	23.29	23.23	23.00	
20	PI/2 BPSK	50	0	22.89	22.80	22.71	24.5
20	PI/2 BPSK	50	28	23.38	23.30	23.14	25.0
20	PI/2 BPSK	50	56	22.84	22.65	22.52	24.5
20	PI/2 BPSK	100	0	22.89	22.79	22.63	
20	QPSK	1	1	23.34	23.34	23.37	25.0
20	QPSK	1	53	23.21	23.29	23.13	
20	QPSK	1	104	23.24	23.15	22.86	
20	QPSK	50	0	22.64	22.47	22.49	24.0
20	QPSK	50	28	23.40	23.28	23.17	25.0
20	QPSK	50	56	22.49	22.42	22.22	24.0
20	QPSK	100	0	22.57	22.48	22.42	
20	16QAM	1	1	22.47	22.62	22.57	24.0
20	64QAM	1	1	21.19	21.03	20.91	22.5
20	256QAM	1	1	19.27	19.05	19.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.45	23.38	23.34	25.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.38	23.35	23.41	25.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.40	23.37	23.35	25.0



n25_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)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.74	23.78	23.82	25.5
20	PI/2 BPSK	1	53	23.70	23.83	23.77	
20	PI/2 BPSK	1	104	23.82	23.83	23.79	
20	PI/2 BPSK	50	0	23.22	23.32	23.29	25.0
20	PI/2 BPSK	50	28	23.66	23.81	23.76	25.5
20	PI/2 BPSK	50	56	23.22	23.38	23.24	25.0
20	PI/2 BPSK	100	0	23.17	23.31	23.27	
20	QPSK	1	1	23.61	23.76	23.79	25.5
20	QPSK	1	53	23.62	23.76	23.71	
20	QPSK	1	104	23.60	23.76	23.73	
20	QPSK	50	0	22.64	22.83	22.82	24.5
20	QPSK	50	28	23.72	23.82	23.77	25.5
20	QPSK	50	56	22.72	22.77	22.76	24.5
20	QPSK	100	0	22.73	22.88	22.82	
20	16QAM	1	1	22.45	22.53	22.54	24.5
20	64QAM	1	1	21.36	21.43	21.30	23.0
20	256QAM	1	1	19.31	19.50	19.58	21.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.72	23.78	23.81	25.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.70	23.71	23.81	25.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.73	23.72	23.79	25.5



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)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.85	23.87	23.84	
20	PI/2 BPSK	1	53	23.76	23.83	23.75	
20	PI/2 BPSK	1	104	23.76	23.86	23.70	
20	PI/2 BPSK	50	0	23.29	23.33	23.31	25.0
20	PI/2 BPSK	50	28	23.72	23.78	23.73	25.5
20	PI/2 BPSK	50	56	23.28	23.23	23.15	25.0
20	PI/2 BPSK	100	0	23.26	23.26	23.27	
20	QPSK	1	1	23.71	23.70	23.76	
20	QPSK	1	53	23.69	23.74	23.70	25.5
20	QPSK	1	104	23.69	23.77	23.63	
20	QPSK	50	0	22.75	22.82	22.81	
20	QPSK	50	28	23.77	23.78	23.76	25.5
20	QPSK	50	56	22.80	22.76	22.69	24.5
20	QPSK	100	0	22.79	22.84	22.77	
20	16QAM	1	1	22.54	22.48	22.48	
20	64QAM	1	1	21.34	21.28	21.23	23.0
20	256QAM	1	1	19.52	19.48	19.58	21.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.77	23.80	23.83	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.81	23.77	23.83	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.79	23.85	23.82	25.5



n2_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)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.77	23.72	23.86	25.1
20	PI/2 BPSK	1	53	23.78	23.87	23.87	
20	PI/2 BPSK	1	104	23.86	23.93	23.88	
20	PI/2 BPSK	50	0	23.76	23.74	23.81	25.1
20	PI/2 BPSK	50	28	23.78	23.84	23.85	25.1
20	PI/2 BPSK	50	56	23.79	23.89	23.86	25.1
20	PI/2 BPSK	100	0	23.75	23.84	23.81	
20	QPSK	1	1	23.85	23.82	23.89	25.1
20	QPSK	1	53	23.81	23.91	23.86	
20	QPSK	1	104	23.83	23.92	23.81	
20	QPSK	50	0	23.80	23.79	23.85	24.7
20	QPSK	50	28	23.80	23.90	23.85	25.1
20	QPSK	50	56	23.74	23.87	23.86	24.7
20	QPSK	100	0	23.76	23.91	23.84	
20	16QAM	1	1	23.73	23.69	23.80	24.7
20	64QAM	1	1	22.61	22.58	22.71	23.2
20	256QAM	1	1	20.55	20.56	20.62	21.2
Channel				371500	376000	380500	
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.72	23.63	23.77	25.1
Channel				371000	376000	381000	
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.77	23.66	23.83	25.1
Channel				370500	376000	381500	
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.72	23.72	23.81	25.1



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)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.29	24.24	24.17	25.0
20	PI/2 BPSK	1	53	24.13	24.15	24.06	
20	PI/2 BPSK	1	104	23.96	23.37	23.10	
20	PI/2 BPSK	50	0	23.70	23.63	23.60	24.5
20	PI/2 BPSK	50	28	24.12	24.09	24.06	25.0
20	PI/2 BPSK	50	56	23.57	23.51	23.48	24.5
20	PI/2 BPSK	100	0	23.66	23.56	23.52	
20	QPSK	1	1	24.28	24.21	24.16	25.0
20	QPSK	1	53	24.13	24.10	24.04	
20	QPSK	1	104	23.99	23.91	23.40	
20	QPSK	50	0	23.19	23.20	23.11	24.0
20	QPSK	50	28	24.15	24.12	24.09	25.0
20	QPSK	50	56	23.07	23.04	22.97	24.0
20	QPSK	100	0	23.17	23.14	23.11	
20	16QAM	1	1	22.92	22.83	22.78	24.0
20	64QAM	1	1	21.88	21.80	21.75	22.5
20	256QAM	1	1	19.97	19.88	19.77	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.25	24.24	24.16	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.26	24.08	24.18	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.22	24.04	24.10	25.0



n12_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)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.91	23.91	23.87	24.7
15	PI/2 BPSK	1	40	23.77	23.72	23.71	
15	PI/2 BPSK	1	77	23.65	23.64	23.62	
15	PI/2 BPSK	36	0	23.25	23.29	23.26	24.2
15	PI/2 BPSK	36	22	23.70	23.67	23.62	24.7
15	PI/2 BPSK	36	43	23.16	23.08	23.10	24.2
15	PI/2 BPSK	75	0	23.22	23.23	23.19	
15	QPSK	1	1	23.78	23.86	23.72	24.7
15	QPSK	1	40	23.71	23.71	23.70	
15	QPSK	1	77	23.61	23.56	23.56	
15	QPSK	36	0	22.77	22.79	22.72	23.7
15	QPSK	36	22	23.65	23.65	23.60	24.7
15	QPSK	36	43	22.72	22.67	22.65	23.7
15	QPSK	75	0	22.72	22.67	22.70	
15	16QAM	1	1	22.52	22.46	22.44	23.7
15	64QAM	1	1	21.32	21.23	21.22	22.2
15	256QAM	1	1	19.66	19.62	19.61	20.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.81	23.65	23.77	24.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.72	23.65	23.81	24.7



n71_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)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.45	24.40	24.41	25.7
20	PI/2 BPSK	1	53	24.53	24.44	24.43	
20	PI/2 BPSK	1	104	24.39	24.36	24.23	
20	PI/2 BPSK	50	0	24.32	24.14	24.11	25.2
20	PI/2 BPSK	50	28	24.28	24.44	24.28	25.7
20	PI/2 BPSK	50	56	24.19	24.07	23.91	25.2
20	PI/2 BPSK	100	0	24.17	24.17	23.98	
20	QPSK	1	1	24.52	24.43	24.45	
20	QPSK	1	53	24.37	24.36	24.19	25.7
20	QPSK	1	104	24.33	24.28	24.02	
20	QPSK	50	0	23.95	23.76	23.85	
20	QPSK	50	28	24.52	24.41	24.31	25.7
20	QPSK	50	56	23.84	23.76	23.63	24.7
20	QPSK	100	0	23.85	23.83	23.77	
20	16QAM	1	1	23.41	23.38	23.53	
20	64QAM	1	1	22.46	22.24	22.23	23.2
20	256QAM	1	1	20.79	20.58	20.53	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.39	24.43	24.29	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.31	24.42	24.36	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.43	24.43	24.26	25.7



n25_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)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.56	23.76	23.77	25.1
20	PI/2 BPSK	1	53	23.63	23.81	23.77	
20	PI/2 BPSK	1	104	23.66	23.83	23.78	
20	PI/2 BPSK	50	0	23.52	23.69	23.73	25.1
20	PI/2 BPSK	50	28	23.64	23.76	23.75	25.1
20	PI/2 BPSK	50	56	23.65	23.77	23.76	25.1
20	PI/2 BPSK	100	0	23.58	23.76	23.74	
20	QPSK	1	1	23.59	23.72	23.76	25.1
20	QPSK	1	53	23.60	23.78	23.78	
20	QPSK	1	104	23.61	23.80	23.73	
20	QPSK	50	0	23.55	23.71	23.77	24.7
20	QPSK	50	28	23.63	23.77	23.76	25.1
20	QPSK	50	56	23.64	23.77	23.69	24.7
20	QPSK	100	0	23.64	23.82	23.76	
20	16QAM	1	1	23.51	23.63	23.75	24.7
20	64QAM	1	1	22.39	22.60	22.64	23.2
20	256QAM	1	1	20.36	20.52	20.56	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.54	23.74	23.74	25.1
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.56	23.71	23.70	25.1
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.50	23.66	23.67	25.1



n66_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)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.77	23.84	23.80	
20	PI/2 BPSK	1	53	23.76	23.77	23.72	
20	PI/2 BPSK	1	104	23.71	23.83	23.70	
20	PI/2 BPSK	50	0	23.75	23.83	23.74	25.1
20	PI/2 BPSK	50	28	23.74	23.78	23.70	25.1
20	PI/2 BPSK	50	56	23.66	23.72	23.62	25.1
20	PI/2 BPSK	100	0	23.72	23.74	23.71	
20	QPSK	1	1	23.74	23.80	23.81	
20	QPSK	1	53	23.75	23.83	23.76	25.1
20	QPSK	1	104	23.74	23.72	23.65	
20	QPSK	50	0	23.73	23.80	23.76	
20	QPSK	50	28	23.73	23.79	23.74	25.1
20	QPSK	50	56	23.70	23.73	23.67	24.7
20	QPSK	100	0	23.74	23.78	23.74	
20	16QAM	1	1	23.73	23.72	23.80	
20	64QAM	1	1	22.66	22.59	22.67	23.2
20	256QAM	1	1	20.53	20.53	20.60	21.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.72	23.74	23.74	25.1
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.68	23.79	23.70	25.1
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.75	23.75	23.75	25.1



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)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.89	23.89	23.95	25.5
20	PI/2 BPSK	1	53	23.87	23.96	23.92	
20	PI/2 BPSK	1	104	23.93	23.99	23.91	
20	PI/2 BPSK	50	0	23.37	23.32	23.41	25.0
20	PI/2 BPSK	50	28	23.86	23.93	23.91	25.5
20	PI/2 BPSK	50	56	23.34	23.40	23.41	25.0
20	PI/2 BPSK	100	0	23.34	23.44	23.40	
20	QPSK	1	1	23.75	23.86	23.87	25.5
20	QPSK	1	53	23.72	23.93	23.85	
20	QPSK	1	104	23.76	23.92	23.80	
20	QPSK	50	0	22.79	22.83	22.93	24.5
20	QPSK	50	28	23.83	23.97	23.94	25.5
20	QPSK	50	56	22.88	22.98	22.90	24.5
20	QPSK	100	0	22.93	22.99	22.90	
20	16QAM	1	1	22.61	22.60	22.65	24.5
20	64QAM	1	1	21.48	21.44	21.43	23.0
20	256QAM	1	1	19.44	19.62	19.67	21.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.82	23.85	23.90	25.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.86	23.80	23.87	25.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.85	23.83	23.92	25.5



n5_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.54	23.51	23.44	25.0
20	PI/2 BPSK	1	53	23.40	23.37	23.30	
20	PI/2 BPSK	1	104	22.83	22.16	22.00	
20	PI/2 BPSK	50	0	22.92	22.88	22.79	24.5
20	PI/2 BPSK	50	28	23.39	23.30	23.23	25.0
20	PI/2 BPSK	50	56	22.77	22.71	22.67	24.5
20	PI/2 BPSK	100	0	22.85	22.77	22.77	
20	QPSK	1	1	23.42	23.44	23.38	
20	QPSK	1	53	23.33	23.29	23.22	25.0
20	QPSK	1	104	22.84	22.15	21.99	
20	QPSK	50	0	22.40	22.36	22.32	
20	QPSK	50	28	23.38	23.30	23.26	25.0
20	QPSK	50	56	22.30	22.23	22.14	24.0
20	QPSK	100	0	22.38	22.34	22.29	
20	16QAM	1	1	22.58	22.54	22.47	
20	64QAM	1	1	20.98	20.93	20.85	22.5
20	256QAM	1	1	19.14	19.08	18.94	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.44	23.49	23.36	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.53	23.49	23.34	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.49	23.43	23.34	25.0



n12_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)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.11	22.16	22.09	23.0
15	PI/2 BPSK	1	40	22.07	22.02	22.00	
15	PI/2 BPSK	1	77	21.91	21.90	21.85	
15	PI/2 BPSK	36	0	21.98	22.07	21.92	23.0
15	PI/2 BPSK	36	22	21.99	21.92	21.94	23.0
15	PI/2 BPSK	36	43	21.91	21.93	21.89	23.0
15	PI/2 BPSK	75	0	22.00	21.97	21.97	
15	QPSK	1	1	22.10	22.11	22.08	
15	QPSK	1	40	21.94	22.05	22.06	23.0
15	QPSK	1	77	21.96	21.90	21.92	
15	QPSK	36	0	21.98	22.01	21.96	
15	QPSK	36	22	22.00	21.99	21.97	23.0
15	QPSK	36	43	21.94	21.88	21.90	23.0
15	QPSK	75	0	22.04	22.03	21.97	
15	16QAM	1	1	22.03	22.02	22.01	
15	64QAM	1	1	21.21	21.24	21.18	22.5
	256QAM	1	1	19.54	19.52	19.48	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.09	22.13	22.08	23.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.02	22.06	22.05	23.0



n71_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)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.48	23.43	23.41	25.0
20	PI/2 BPSK	1	53	23.43	23.36	23.28	
20	PI/2 BPSK	1	104	23.29	23.23	23.00	
20	PI/2 BPSK	50	0	22.89	22.80	22.71	24.5
20	PI/2 BPSK	50	28	23.38	23.30	23.14	25.0
20	PI/2 BPSK	50	56	22.84	22.65	22.52	24.5
20	PI/2 BPSK	100	0	22.89	22.79	22.63	
20	QPSK	1	1	23.34	23.34	23.37	
20	QPSK	1	53	23.21	23.29	23.13	25.0
20	QPSK	1	104	23.24	23.15	22.86	
20	QPSK	50	0	22.64	22.47	22.49	
20	QPSK	50	28	23.40	23.28	23.17	25.0
20	QPSK	50	56	22.49	22.42	22.22	24.0
20	QPSK	100	0	22.57	22.48	22.42	
20	16QAM	1	1	22.47	22.62	22.57	
20	64QAM	1	1	21.19	21.03	20.91	22.5
20	256QAM	1	1	19.27	19.05	19.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.45	23.38	23.34	25.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.38	23.35	23.41	25.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.40	23.37	23.35	25.0



n25_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)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.74	23.78	23.82	25.5
20	PI/2 BPSK	1	53	23.70	23.83	23.77	
20	PI/2 BPSK	1	104	23.82	23.83	23.79	
20	PI/2 BPSK	50	0	23.22	23.32	23.29	25.0
20	PI/2 BPSK	50	28	23.66	23.81	23.76	25.5
20	PI/2 BPSK	50	56	23.22	23.38	23.24	25.0
20	PI/2 BPSK	100	0	23.17	23.31	23.27	
20	QPSK	1	1	23.61	23.76	23.79	25.5
20	QPSK	1	53	23.62	23.76	23.71	
20	QPSK	1	104	23.60	23.76	23.73	
20	QPSK	50	0	22.64	22.83	22.82	24.5
20	QPSK	50	28	23.72	23.82	23.77	25.5
20	QPSK	50	56	22.72	22.77	22.76	24.5
20	QPSK	100	0	22.73	22.88	22.82	
20	16QAM	1	1	22.45	22.53	22.54	24.5
20	64QAM	1	1	21.36	21.43	21.30	23.0
20	256QAM	1	1	19.31	19.50	19.58	21.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.72	23.78	23.81	25.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.70	23.71	23.81	25.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.73	23.72	23.79	25.5



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)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.85	23.87	23.84	
20	PI/2 BPSK	1	53	23.76	23.83	23.75	
20	PI/2 BPSK	1	104	23.76	23.86	23.70	
20	PI/2 BPSK	50	0	23.29	23.33	23.31	25.0
20	PI/2 BPSK	50	28	23.72	23.78	23.73	25.5
20	PI/2 BPSK	50	56	23.28	23.23	23.15	25.0
20	PI/2 BPSK	100	0	23.26	23.26	23.27	
20	QPSK	1	1	23.71	23.70	23.76	
20	QPSK	1	53	23.69	23.74	23.70	25.5
20	QPSK	1	104	23.69	23.77	23.63	
20	QPSK	50	0	22.75	22.82	22.81	
20	QPSK	50	28	23.77	23.78	23.76	25.5
20	QPSK	50	56	22.80	22.76	22.69	24.5
20	QPSK	100	0	22.79	22.84	22.77	
20	16QAM	1	1	22.54	22.48	22.48	
20	64QAM	1	1	21.34	21.28	21.23	23.0
20	256QAM	1	1	19.52	19.48	19.58	21.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.77	23.80	23.83	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.81	23.77	23.83	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.79	23.85	23.82	25.5



n2_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)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.77	23.72	23.86	24.3
20	PI/2 BPSK	1	53	23.78	23.87	23.87	
20	PI/2 BPSK	1	104	23.86	23.93	23.88	
20	PI/2 BPSK	50	0	23.76	23.74	23.81	24.3
20	PI/2 BPSK	50	28	23.78	23.84	23.85	24.3
20	PI/2 BPSK	50	56	23.79	23.89	23.86	24.3
20	PI/2 BPSK	100	0	23.75	23.84	23.81	
20	QPSK	1	1	23.85	23.82	23.89	24.3
20	QPSK	1	53	23.81	23.91	23.86	
20	QPSK	1	104	23.83	23.92	23.81	
20	QPSK	50	0	23.80	23.79	23.85	24.3
20	QPSK	50	28	23.80	23.90	23.85	24.3
20	QPSK	50	56	23.74	23.87	23.86	24.3
20	QPSK	100	0	23.76	23.91	23.84	
20	16QAM	1	1	23.73	23.69	23.80	24.3
20	64QAM	1	1	22.61	22.58	22.71	23.2
20	256QAM	1	1	20.55	20.56	20.62	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.72	23.63	23.77	24.3
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.77	23.66	23.83	24.3
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.72	23.72	23.81	24.3



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)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.29	24.24	24.17	25.0
20	PI/2 BPSK	1	53	24.13	24.15	24.06	
20	PI/2 BPSK	1	104	23.96	23.37	23.10	
20	PI/2 BPSK	50	0	23.70	23.63	23.60	24.5
20	PI/2 BPSK	50	28	24.12	24.09	24.06	25.0
20	PI/2 BPSK	50	56	23.57	23.51	23.48	24.5
20	PI/2 BPSK	100	0	23.66	23.56	23.52	
20	QPSK	1	1	24.28	24.21	24.16	25.0
20	QPSK	1	53	24.13	24.10	24.04	
20	QPSK	1	104	23.99	23.91	23.40	
20	QPSK	50	0	23.19	23.20	23.11	24.0
20	QPSK	50	28	24.15	24.12	24.09	25.0
20	QPSK	50	56	23.07	23.04	22.97	24.0
20	QPSK	100	0	23.17	23.14	23.11	
20	16QAM	1	1	22.92	22.83	22.78	24.0
20	64QAM	1	1	21.88	21.80	21.75	22.5
20	256QAM	1	1	19.97	19.88	19.77	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.25	24.24	24.16	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.26	24.08	24.18	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.22	24.04	24.10	25.0



n12_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)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.91	23.91	23.87	24.7
15	PI/2 BPSK	1	40	23.77	23.72	23.71	
15	PI/2 BPSK	1	77	23.65	23.64	23.62	
15	PI/2 BPSK	36	0	23.25	23.29	23.26	24.2
15	PI/2 BPSK	36	22	23.70	23.67	23.62	24.7
15	PI/2 BPSK	36	43	23.16	23.08	23.10	24.2
15	PI/2 BPSK	75	0	23.22	23.23	23.19	
15	QPSK	1	1	23.78	23.86	23.72	24.7
15	QPSK	1	40	23.71	23.71	23.70	
15	QPSK	1	77	23.61	23.56	23.56	
15	QPSK	36	0	22.77	22.79	22.72	23.7
15	QPSK	36	22	23.65	23.65	23.60	24.7
15	QPSK	36	43	22.72	22.67	22.65	23.7
15	QPSK	75	0	22.72	22.67	22.70	
15	16QAM	1	1	22.52	22.46	22.44	23.7
15	64QAM	1	1	21.32	21.23	21.22	22.2
15	256QAM	1	1	19.66	19.62	19.61	20.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.81	23.65	23.77	24.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.72	23.65	23.81	24.7



n71_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)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.45	24.40	24.41	25.7
20	PI/2 BPSK	1	53	24.53	24.44	24.43	
20	PI/2 BPSK	1	104	24.39	24.36	24.23	
20	PI/2 BPSK	50	0	24.32	24.14	24.11	25.2
20	PI/2 BPSK	50	28	24.28	24.44	24.28	25.7
20	PI/2 BPSK	50	56	24.19	24.07	23.91	25.2
20	PI/2 BPSK	100	0	24.17	24.17	23.98	
20	QPSK	1	1	24.52	24.43	24.45	25.7
20	QPSK	1	53	24.37	24.36	24.19	
20	QPSK	1	104	24.33	24.28	24.02	
20	QPSK	50	0	23.95	23.76	23.85	24.7
20	QPSK	50	28	24.52	24.41	24.31	25.7
20	QPSK	50	56	23.84	23.76	23.63	24.7
20	QPSK	100	0	23.85	23.83	23.77	
20	16QAM	1	1	23.41	23.38	23.53	24.7
20	64QAM	1	1	22.46	22.24	22.23	23.2
20	256QAM	1	1	20.79	20.58	20.53	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.39	24.43	24.29	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.31	24.42	24.36	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.43	24.43	24.26	25.7



n25_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)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.56	23.76	23.77	24.3
20	PI/2 BPSK	1	53	23.63	23.81	23.77	
20	PI/2 BPSK	1	104	23.66	23.83	23.78	
20	PI/2 BPSK	50	0	23.52	23.69	23.73	24.3
20	PI/2 BPSK	50	28	23.64	23.76	23.75	24.3
20	PI/2 BPSK	50	56	23.65	23.77	23.76	24.3
20	PI/2 BPSK	100	0	23.58	23.76	23.74	
20	QPSK	1	1	23.59	23.72	23.76	24.3
20	QPSK	1	53	23.60	23.78	23.78	
20	QPSK	1	104	23.61	23.80	23.73	
20	QPSK	50	0	23.55	23.71	23.77	24.3
20	QPSK	50	28	23.63	23.77	23.76	24.3
20	QPSK	50	56	23.64	23.77	23.69	24.3
20	QPSK	100	0	23.64	23.82	23.76	
20	16QAM	1	1	23.51	23.63	23.75	24.3
20	64QAM	1	1	22.39	22.60	22.64	23.2
20	256QAM	1	1	20.36	20.52	20.56	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.54	23.74	23.74	24.3
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.56	23.71	23.70	24.3
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.50	23.66	23.67	24.3



n66_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)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.77	23.84	23.80	
20	PI/2 BPSK	1	53	23.76	23.77	23.72	
20	PI/2 BPSK	1	104	23.71	23.83	23.70	
20	PI/2 BPSK	50	0	23.75	23.83	23.74	24.3
20	PI/2 BPSK	50	28	23.74	23.78	23.70	24.3
20	PI/2 BPSK	50	56	23.66	23.72	23.62	24.3
20	PI/2 BPSK	100	0	23.72	23.74	23.71	
20	QPSK	1	1	23.74	23.80	23.81	
20	QPSK	1	53	23.75	23.83	23.76	24.3
20	QPSK	1	104	23.74	23.72	23.65	
20	QPSK	50	0	23.73	23.80	23.76	
20	QPSK	50	28	23.73	23.79	23.74	24.3
20	QPSK	50	56	23.70	23.73	23.67	24.3
20	QPSK	100	0	23.74	23.78	23.74	
20	16QAM	1	1	23.73	23.72	23.80	
20	64QAM	1	1	22.66	22.59	22.67	23.2
20	256QAM	1	1	20.53	20.53	20.60	21.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.72	23.74	23.74	24.3
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.68	23.79	23.70	24.3
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.75	23.75	23.75	24.3



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)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.89	23.89	23.95	25.5
20	PI/2 BPSK	1	53	23.87	23.96	23.92	
20	PI/2 BPSK	1	104	23.93	23.99	23.91	
20	PI/2 BPSK	50	0	23.37	23.32	23.41	25.0
20	PI/2 BPSK	50	28	23.86	23.93	23.91	25.5
20	PI/2 BPSK	50	56	23.34	23.40	23.41	25.0
20	PI/2 BPSK	100	0	23.34	23.44	23.40	
20	QPSK	1	1	23.75	23.86	23.87	25.5
20	QPSK	1	53	23.72	23.93	23.85	
20	QPSK	1	104	23.76	23.92	23.80	
20	QPSK	50	0	22.79	22.83	22.93	24.5
20	QPSK	50	28	23.83	23.97	23.94	25.5
20	QPSK	50	56	22.88	22.98	22.90	24.5
20	QPSK	100	0	22.93	22.99	22.90	
20	16QAM	1	1	22.61	22.60	22.65	24.5
20	64QAM	1	1	21.48	21.44	21.43	23.0
20	256QAM	1	1	19.44	19.62	19.67	21.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.82	23.85	23.90	25.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.86	23.80	23.87	25.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.85	23.83	23.92	25.5



n5_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.54	23.51	23.44	25.0
20	PI/2 BPSK	1	53	23.40	23.37	23.30	
20	PI/2 BPSK	1	104	22.83	22.16	22.00	
20	PI/2 BPSK	50	0	22.92	22.88	22.79	24.5
20	PI/2 BPSK	50	28	23.39	23.30	23.23	25.0
20	PI/2 BPSK	50	56	22.77	22.71	22.67	24.5
20	PI/2 BPSK	100	0	22.85	22.77	22.77	
20	QPSK	1	1	23.42	23.44	23.38	
20	QPSK	1	53	23.33	23.29	23.22	25.0
20	QPSK	1	104	22.84	22.15	21.99	
20	QPSK	50	0	22.40	22.36	22.32	
20	QPSK	50	28	23.38	23.30	23.26	25.0
20	QPSK	50	56	22.30	22.23	22.14	24.0
20	QPSK	100	0	22.38	22.34	22.29	
20	16QAM	1	1	22.58	22.54	22.47	
20	64QAM	1	1	20.98	20.93	20.85	22.5
20	256QAM	1	1	19.14	19.08	18.94	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.44	23.49	23.36	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.53	23.49	23.34	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.49	23.43	23.34	25.0



n12_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)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.11	22.16	22.09	23.0
15	PI/2 BPSK	1	40	22.07	22.02	22.00	
15	PI/2 BPSK	1	77	21.91	21.90	21.85	
15	PI/2 BPSK	36	0	21.98	22.07	21.92	23.0
15	PI/2 BPSK	36	22	21.99	21.92	21.94	23.0
15	PI/2 BPSK	36	43	21.91	21.93	21.89	23.0
15	PI/2 BPSK	75	0	22.00	21.97	21.97	
15	QPSK	1	1	22.10	22.11	22.08	
15	QPSK	1	40	21.94	22.05	22.06	23.0
15	QPSK	1	77	21.96	21.90	21.92	
15	QPSK	36	0	21.98	22.01	21.96	
15	QPSK	36	22	22.00	21.99	21.97	23.0
15	QPSK	36	43	21.94	21.88	21.90	23.0
15	QPSK	75	0	22.04	22.03	21.97	
15	16QAM	1	1	22.03	22.02	22.01	
15	64QAM	1	1	21.21	21.24	21.18	22.5
	256QAM	1	1	19.54	19.52	19.48	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.09	22.13	22.08	23.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.02	22.06	22.05	23.0



n71_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)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.48	23.43	23.41	25.0
20	PI/2 BPSK	1	53	23.43	23.36	23.28	
20	PI/2 BPSK	1	104	23.29	23.23	23.00	
20	PI/2 BPSK	50	0	22.89	22.80	22.71	24.5
20	PI/2 BPSK	50	28	23.38	23.30	23.14	25.0
20	PI/2 BPSK	50	56	22.84	22.65	22.52	24.5
20	PI/2 BPSK	100	0	22.89	22.79	22.63	
20	QPSK	1	1	23.34	23.34	23.37	
20	QPSK	1	53	23.21	23.29	23.13	25.0
20	QPSK	1	104	23.24	23.15	22.86	
20	QPSK	50	0	22.64	22.47	22.49	
20	QPSK	50	28	23.40	23.28	23.17	25.0
20	QPSK	50	56	22.49	22.42	22.22	24.0
20	QPSK	100	0	22.57	22.48	22.42	
20	16QAM	1	1	22.47	22.62	22.57	
20	64QAM	1	1	21.19	21.03	20.91	22.5
20	256QAM	1	1	19.27	19.05	19.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.45	23.38	23.34	25.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.38	23.35	23.41	25.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.40	23.37	23.35	25.0



n25_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)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.74	23.78	23.82	25.5
20	PI/2 BPSK	1	53	23.70	23.83	23.77	
20	PI/2 BPSK	1	104	23.82	23.83	23.79	
20	PI/2 BPSK	50	0	23.22	23.32	23.29	25.0
20	PI/2 BPSK	50	28	23.66	23.81	23.76	25.5
20	PI/2 BPSK	50	56	23.22	23.38	23.24	25.0
20	PI/2 BPSK	100	0	23.17	23.31	23.27	
20	QPSK	1	1	23.61	23.76	23.79	25.5
20	QPSK	1	53	23.62	23.76	23.71	
20	QPSK	1	104	23.60	23.76	23.73	
20	QPSK	50	0	22.64	22.83	22.82	24.5
20	QPSK	50	28	23.72	23.82	23.77	25.5
20	QPSK	50	56	22.72	22.77	22.76	24.5
20	QPSK	100	0	22.73	22.88	22.82	
20	16QAM	1	1	22.45	22.53	22.54	24.5
20	64QAM	1	1	21.36	21.43	21.30	23.0
20	256QAM	1	1	19.31	19.50	19.58	21.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.72	23.78	23.81	25.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.70	23.71	23.81	25.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.73	23.72	23.79	25.5



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)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.85	23.87	23.84	
20	PI/2 BPSK	1	53	23.76	23.83	23.75	
20	PI/2 BPSK	1	104	23.76	23.86	23.70	
20	PI/2 BPSK	50	0	23.29	23.33	23.31	25.0
20	PI/2 BPSK	50	28	23.72	23.78	23.73	25.5
20	PI/2 BPSK	50	56	23.28	23.23	23.15	25.0
20	PI/2 BPSK	100	0	23.26	23.26	23.27	
20	QPSK	1	1	23.71	23.70	23.76	
20	QPSK	1	53	23.69	23.74	23.70	25.5
20	QPSK	1	104	23.69	23.77	23.63	
20	QPSK	50	0	22.75	22.82	22.81	
20	QPSK	50	28	23.77	23.78	23.76	25.5
20	QPSK	50	56	22.80	22.76	22.69	24.5
20	QPSK	100	0	22.79	22.84	22.77	
20	16QAM	1	1	22.54	22.48	22.48	
20	64QAM	1	1	21.34	21.28	21.23	23.0
20	256QAM	1	1	19.52	19.48	19.58	21.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.77	23.80	23.83	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.81	23.77	23.83	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.79	23.85	23.82	25.5



n2_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)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.77	23.72	23.86	24.7
20	PI/2 BPSK	1	53	23.78	23.87	23.87	
20	PI/2 BPSK	1	104	23.86	23.93	23.88	
20	PI/2 BPSK	50	0	23.76	23.74	23.81	24.7
20	PI/2 BPSK	50	28	23.78	23.84	23.85	24.7
20	PI/2 BPSK	50	56	23.79	23.89	23.86	24.7
20	PI/2 BPSK	100	0	23.75	23.84	23.81	
20	QPSK	1	1	23.85	23.82	23.89	24.7
20	QPSK	1	53	23.81	23.91	23.86	
20	QPSK	1	104	23.83	23.92	23.81	
20	QPSK	50	0	23.80	23.79	23.85	24.7
20	QPSK	50	28	23.80	23.90	23.85	24.7
20	QPSK	50	56	23.74	23.87	23.86	24.7
20	QPSK	100	0	23.76	23.91	23.84	
20	16QAM	1	1	23.73	23.69	23.80	24.7
20	64QAM	1	1	22.61	22.58	22.71	23.2
20	256QAM	1	1	20.55	20.56	20.62	21.2
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.72	23.63	23.77	24.7
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.77	23.66	23.83	24.7
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.72	23.72	23.81	24.7



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)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.29	24.24	24.17	25.0
20	PI/2 BPSK	1	53	24.13	24.15	24.06	
20	PI/2 BPSK	1	104	23.96	23.37	23.10	
20	PI/2 BPSK	50	0	23.70	23.63	23.60	24.5
20	PI/2 BPSK	50	28	24.12	24.09	24.06	25.0
20	PI/2 BPSK	50	56	23.57	23.51	23.48	24.5
20	PI/2 BPSK	100	0	23.66	23.56	23.52	
20	QPSK	1	1	24.28	24.21	24.16	25.0
20	QPSK	1	53	24.13	24.10	24.04	
20	QPSK	1	104	23.99	23.91	23.40	
20	QPSK	50	0	23.19	23.20	23.11	24.0
20	QPSK	50	28	24.15	24.12	24.09	25.0
20	QPSK	50	56	23.07	23.04	22.97	24.0
20	QPSK	100	0	23.17	23.14	23.11	
20	16QAM	1	1	22.92	22.83	22.78	24.0
20	64QAM	1	1	21.88	21.80	21.75	22.5
20	256QAM	1	1	19.97	19.88	19.77	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.25	24.24	24.16	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.26	24.08	24.18	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.22	24.04	24.10	25.0



n12_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)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	23.91	23.91	23.87	24.7
15	PI/2 BPSK	1	40	23.77	23.72	23.71	
15	PI/2 BPSK	1	77	23.65	23.64	23.62	
15	PI/2 BPSK	36	0	23.25	23.29	23.26	24.2
15	PI/2 BPSK	36	22	23.70	23.67	23.62	24.7
15	PI/2 BPSK	36	43	23.16	23.08	23.10	24.2
15	PI/2 BPSK	75	0	23.22	23.23	23.19	
15	QPSK	1	1	23.78	23.86	23.72	24.7
15	QPSK	1	40	23.71	23.71	23.70	
15	QPSK	1	77	23.61	23.56	23.56	
15	QPSK	36	0	22.77	22.79	22.72	23.7
15	QPSK	36	22	23.65	23.65	23.60	24.7
15	QPSK	36	43	22.72	22.67	22.65	23.7
15	QPSK	75	0	22.72	22.67	22.70	
15	16QAM	1	1	22.52	22.46	22.44	23.7
15	64QAM	1	1	21.32	21.23	21.22	22.2
15	256QAM	1	1	19.66	19.62	19.61	20.2
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	23.81	23.65	23.77	24.7
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	23.72	23.65	23.81	24.7



n71_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)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	24.45	24.40	24.41	25.7
20	PI/2 BPSK	1	53	24.53	24.44	24.43	
20	PI/2 BPSK	1	104	24.39	24.36	24.23	
20	PI/2 BPSK	50	0	24.32	24.14	24.11	25.2
20	PI/2 BPSK	50	28	24.28	24.44	24.28	25.7
20	PI/2 BPSK	50	56	24.19	24.07	23.91	25.2
20	PI/2 BPSK	100	0	24.17	24.17	23.98	
20	QPSK	1	1	24.52	24.43	24.45	25.7
20	QPSK	1	53	24.37	24.36	24.19	
20	QPSK	1	104	24.33	24.28	24.02	
20	QPSK	50	0	23.95	23.76	23.85	24.7
20	QPSK	50	28	24.52	24.41	24.31	25.7
20	QPSK	50	56	23.84	23.76	23.63	24.7
20	QPSK	100	0	23.85	23.83	23.77	
20	16QAM	1	1	23.41	23.38	23.53	24.7
20	64QAM	1	1	22.46	22.24	22.23	23.2
20	256QAM	1	1	20.79	20.58	20.53	21.2
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.39	24.43	24.29	25.7
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.31	24.42	24.36	25.7
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.43	24.43	24.26	25.7



n25_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)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.56	23.76	23.77	24.7
20	PI/2 BPSK	1	53	23.63	23.81	23.77	
20	PI/2 BPSK	1	104	23.66	23.83	23.78	
20	PI/2 BPSK	50	0	23.52	23.69	23.73	24.7
20	PI/2 BPSK	50	28	23.64	23.76	23.75	24.7
20	PI/2 BPSK	50	56	23.65	23.77	23.76	24.7
20	PI/2 BPSK	100	0	23.58	23.76	23.74	
20	QPSK	1	1	23.59	23.72	23.76	24.7
20	QPSK	1	53	23.60	23.78	23.78	
20	QPSK	1	104	23.61	23.80	23.73	
20	QPSK	50	0	23.55	23.71	23.77	24.7
20	QPSK	50	28	23.63	23.77	23.76	24.7
20	QPSK	50	56	23.64	23.77	23.69	24.7
20	QPSK	100	0	23.64	23.82	23.76	
20	16QAM	1	1	23.51	23.63	23.75	24.7
20	64QAM	1	1	22.39	22.60	22.64	23.2
20	256QAM	1	1	20.36	20.52	20.56	21.2
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.54	23.74	23.74	24.7
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.56	23.71	23.70	24.7
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.50	23.66	23.67	24.7



n66_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)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.77	23.84	23.80	
20	PI/2 BPSK	1	53	23.76	23.77	23.72	
20	PI/2 BPSK	1	104	23.71	23.83	23.70	
20	PI/2 BPSK	50	0	23.75	23.83	23.74	24.3
20	PI/2 BPSK	50	28	23.74	23.78	23.70	24.3
20	PI/2 BPSK	50	56	23.66	23.72	23.62	24.3
20	PI/2 BPSK	100	0	23.72	23.74	23.71	
20	QPSK	1	1	23.74	23.80	23.81	
20	QPSK	1	53	23.75	23.83	23.76	24.3
20	QPSK	1	104	23.74	23.72	23.65	
20	QPSK	50	0	23.73	23.80	23.76	
20	QPSK	50	28	23.73	23.79	23.74	24.3
20	QPSK	50	56	23.70	23.73	23.67	24.3
20	QPSK	100	0	23.74	23.78	23.74	
20	16QAM	1	1	23.73	23.72	23.80	
20	64QAM	1	1	22.66	22.59	22.67	23.2
20	256QAM	1	1	20.53	20.53	20.60	21.2
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.72	23.74	23.74	24.3
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.68	23.79	23.70	24.3
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.75	23.75	23.75	24.3



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)
Channel				372000	376000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	23.89	23.89	23.95	25.5
20	PI/2 BPSK	1	53	23.87	23.96	23.92	
20	PI/2 BPSK	1	104	23.93	23.99	23.91	
20	PI/2 BPSK	50	0	23.37	23.32	23.41	25.0
20	PI/2 BPSK	50	28	23.86	23.93	23.91	25.5
20	PI/2 BPSK	50	56	23.34	23.40	23.41	25.0
20	PI/2 BPSK	100	0	23.34	23.44	23.40	
20	QPSK	1	1	23.75	23.86	23.87	25.5
20	QPSK	1	53	23.72	23.93	23.85	
20	QPSK	1	104	23.76	23.92	23.80	
20	QPSK	50	0	22.79	22.83	22.93	24.5
20	QPSK	50	28	23.83	23.97	23.94	25.5
20	QPSK	50	56	22.88	22.98	22.90	24.5
20	QPSK	100	0	22.93	22.99	22.90	
20	16QAM	1	1	22.61	22.60	22.65	24.5
20	64QAM	1	1	21.48	21.44	21.43	23.0
20	256QAM	1	1	19.44	19.62	19.67	21.0
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	23.82	23.85	23.90	25.5
Channel				371000	376000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	23.86	23.80	23.87	25.5
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	23.85	23.83	23.92	25.5



n5_Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	23.54	23.51	23.44	25.0
20	PI/2 BPSK	1	53	23.40	23.37	23.30	
20	PI/2 BPSK	1	104	22.83	22.16	22.00	
20	PI/2 BPSK	50	0	22.92	22.88	22.79	24.5
20	PI/2 BPSK	50	28	23.39	23.30	23.23	25.0
20	PI/2 BPSK	50	56	22.77	22.71	22.67	24.5
20	PI/2 BPSK	100	0	22.85	22.77	22.77	
20	QPSK	1	1	23.42	23.44	23.38	
20	QPSK	1	53	23.33	23.29	23.22	25.0
20	QPSK	1	104	22.84	22.15	21.99	
20	QPSK	50	0	22.40	22.36	22.32	
20	QPSK	50	28	23.38	23.30	23.26	25.0
20	QPSK	50	56	22.30	22.23	22.14	24.0
20	QPSK	100	0	22.38	22.34	22.29	
20	16QAM	1	1	22.58	22.54	22.47	
20	64QAM	1	1	20.98	20.93	20.85	22.5
20	256QAM	1	1	19.14	19.08	18.94	20.5
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	23.44	23.49	23.36	25.0
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	23.53	23.49	23.34	25.0
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	23.49	23.43	23.34	25.0



n12_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)
Channel				141300	141500	141700	
Frequency (MHz)				706.5	707.5	708.5	
15	PI/2 BPSK	1	1	22.11	22.16	22.09	23.0
15	PI/2 BPSK	1	40	22.07	22.02	22.00	
15	PI/2 BPSK	1	77	21.91	21.90	21.85	
15	PI/2 BPSK	36	0	21.98	22.07	21.92	23.0
15	PI/2 BPSK	36	22	21.99	21.92	21.94	23.0
15	PI/2 BPSK	36	43	21.91	21.93	21.89	23.0
15	PI/2 BPSK	75	0	22.00	21.97	21.97	
15	QPSK	1	1	22.10	22.11	22.08	
15	QPSK	1	40	21.94	22.05	22.06	23.0
15	QPSK	1	77	21.96	21.90	21.92	
15	QPSK	36	0	21.98	22.01	21.96	
15	QPSK	36	22	22.00	21.99	21.97	23.0
15	QPSK	36	43	21.94	21.88	21.90	23.0
15	QPSK	75	0	22.04	22.03	21.97	
15	16QAM	1	1	22.03	22.02	22.01	
15	64QAM	1	1	21.21	21.24	21.18	22.5
	256QAM	1	1	19.54	19.52	19.48	20.5
Channel				140800	141500	142200	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	22.09	22.13	22.08	23.0
Channel				140300	141500	142700	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	22.02	22.06	22.05	23.0



n71_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)
Channel				134600	136100	137600	
Frequency (MHz)				673	680.5	688	
20	PI/2 BPSK	1	1	23.48	23.43	23.41	25.0
20	PI/2 BPSK	1	53	23.43	23.36	23.28	
20	PI/2 BPSK	1	104	23.29	23.23	23.00	
20	PI/2 BPSK	50	0	22.89	22.80	22.71	24.5
20	PI/2 BPSK	50	28	23.38	23.30	23.14	25.0
20	PI/2 BPSK	50	56	22.84	22.65	22.52	24.5
20	PI/2 BPSK	100	0	22.89	22.79	22.63	
20	QPSK	1	1	23.34	23.34	23.37	
20	QPSK	1	53	23.21	23.29	23.13	25.0
20	QPSK	1	104	23.24	23.15	22.86	
20	QPSK	50	0	22.64	22.47	22.49	
20	QPSK	50	28	23.40	23.28	23.17	25.0
20	QPSK	50	56	22.49	22.42	22.22	24.0
20	QPSK	100	0	22.57	22.48	22.42	
20	16QAM	1	1	22.47	22.62	22.57	
20	64QAM	1	1	21.19	21.03	20.91	22.5
20	256QAM	1	1	19.27	19.05	19.02	20.5
Channel				134100	136100	138100	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	23.45	23.38	23.34	25.0
Channel				133600	136100	138600	Tune-up limit (dBm)
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	23.38	23.35	23.41	25.0
Channel				133100	136100	139100	Tune-up limit (dBm)
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	23.40	23.37	23.35	25.0



n25_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)
Channel				372000	376500	381000	
Frequency (MHz)				1860	1882.5	1905	
20	PI/2 BPSK	1	1	23.74	23.78	23.82	25.5
20	PI/2 BPSK	1	53	23.70	23.83	23.77	
20	PI/2 BPSK	1	104	23.82	23.83	23.79	
20	PI/2 BPSK	50	0	23.22	23.32	23.29	25.0
20	PI/2 BPSK	50	28	23.66	23.81	23.76	25.5
20	PI/2 BPSK	50	56	23.22	23.38	23.24	25.0
20	PI/2 BPSK	100	0	23.17	23.31	23.27	
20	QPSK	1	1	23.61	23.76	23.79	25.5
20	QPSK	1	53	23.62	23.76	23.71	
20	QPSK	1	104	23.60	23.76	23.73	
20	QPSK	50	0	22.64	22.83	22.82	24.5
20	QPSK	50	28	23.72	23.82	23.77	25.5
20	QPSK	50	56	22.72	22.77	22.76	24.5
20	QPSK	100	0	22.73	22.88	22.82	
20	16QAM	1	1	22.45	22.53	22.54	24.5
20	64QAM	1	1	21.36	21.43	21.30	23.0
20	256QAM	1	1	19.31	19.50	19.58	21.0
Channel				371500	376500	381500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	PI/2 BPSK	1	1	23.72	23.78	23.81	25.5
Channel				371000	376500	382000	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	PI/2 BPSK	1	1	23.70	23.71	23.81	25.5
Channel				370500	376500	382500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	PI/2 BPSK	1	1	23.73	23.72	23.79	25.5



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)
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.85	23.87	23.84	
20	PI/2 BPSK	1	53	23.76	23.83	23.75	
20	PI/2 BPSK	1	104	23.76	23.86	23.70	
20	PI/2 BPSK	50	0	23.29	23.33	23.31	25.0
20	PI/2 BPSK	50	28	23.72	23.78	23.73	25.5
20	PI/2 BPSK	50	56	23.28	23.23	23.15	25.0
20	PI/2 BPSK	100	0	23.26	23.26	23.27	
20	QPSK	1	1	23.71	23.70	23.76	
20	QPSK	1	53	23.69	23.74	23.70	25.5
20	QPSK	1	104	23.69	23.77	23.63	
20	QPSK	50	0	22.75	22.82	22.81	
20	QPSK	50	28	23.77	23.78	23.76	25.5
20	QPSK	50	56	22.80	22.76	22.69	24.5
20	QPSK	100	0	22.79	22.84	22.77	
20	16QAM	1	1	22.54	22.48	22.48	
20	64QAM	1	1	21.34	21.28	21.23	23.0
20	256QAM	1	1	19.52	19.48	19.58	21.0
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	23.77	23.80	23.83	25.5
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.81	23.77	23.83	25.5
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	23.79	23.85	23.82	25.5



n41_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.64	24.69	24.59	25.7
100	PI/2 BPSK	1	137	24.76	24.70	24.66	
100	PI/2 BPSK	1	271	24.67	24.61	24.56	
100	PI/2 BPSK	135	0	24.15	24.16	24.00	25.2
100	PI/2 BPSK	135	69	24.65	24.63	24.58	25.7
100	PI/2 BPSK	135	138	24.25	24.10	24.02	25.2
100	PI/2 BPSK	270	0	24.20	24.12	24.09	
100	QPSK	1	1	24.72	24.63	24.64	25.7
100	QPSK	1	137	24.76	24.56	24.64	
100	QPSK	1	271	24.67	24.59	24.57	
100	QPSK	135	0	23.67	23.66	23.49	25.7
100	QPSK	135	69	24.63	24.54	24.57	
100	QPSK	135	138	23.65	23.51	23.55	
100	QPSK	270	0	23.69	23.62	23.55	24.7
100	16QAM	1	1	23.79	23.88	23.74	24.7
100	64QAM	1	1	22.29	22.36	22.28	23.2
100	256QAM	1	1	20.38	20.39	20.28	21.2
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.60	24.53	24.49	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.64	24.61	24.59	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.58	24.59	24.60	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.60	24.64	24.52	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.61	24.55	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.54	24.51	24.55	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.39	24.51	24.44	25.7



n41_HPUE PC2_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.07	26.76	25.88	27.5
100	PI/2 BPSK	1	137	26.03	26.04	25.78	
100	PI/2 BPSK	1	271	26.50	26.59	26.58	
100	PI/2 BPSK	135	0	26.08	26.10	26.08	27.0
100	PI/2 BPSK	135	69	26.15	26.34	26.20	27.5
100	PI/2 BPSK	135	138	26.33	26.33	23.30	27.0
100	PI/2 BPSK	270	0	26.27	26.33	26.26	
100	QPSK	1	1	26.65	26.75	26.66	27.5
100	QPSK	1	137	26.18	26.24	26.18	
100	QPSK	1	271	26.53	26.61	26.60	
100	QPSK	135	0	25.91	25.92	25.86	26.5
100	QPSK	135	69	26.12	26.12	26.04	27.5
100	QPSK	135	138	25.91	25.96	25.91	26.5
100	QPSK	270	0	25.84	25.92	25.84	
100	16QAM	1	1	26.15	26.19	26.19	26.5
100	64QAM	1	1	24.66	24.66	24.64	25.0
100	256QAM	1	1	22.56	22.66	22.59	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.63	26.66	25.49	27.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.71	26.71	25.55	27.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.72	26.76	25.60	27.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.05	26.74	25.82	27.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.75	26.73	25.59	27.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.99	26.68	25.85	27.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.77	26.67	25.57	27.5



n41 PC3_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)
Channel				509202	518598	528000	25.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.77	25.03	23.51	25.7
100	PI/2 BPSK	1	137	25.17	24.13	25.19	
100	PI/2 BPSK	1	271	23.71	24.34	22.70	25.2
100	PI/2 BPSK	135	0	24.09	24.66	24.02	
100	PI/2 BPSK	135	69	25.01	24.67	24.99	25.2
100	PI/2 BPSK	135	138	24.10	23.86	24.04	
100	PI/2 BPSK	270	0	24.14	24.48	24.22	25.7
100	QPSK	1	1	23.70	25.02	23.52	
100	QPSK	1	137	25.01	24.10	25.15	24.7
100	QPSK	1	271	23.73	24.26	23.70	
100	QPSK	135	0	23.59	24.20	23.44	25.7
100	QPSK	135	69	25.02	24.76	24.90	
100	QPSK	135	138	23.57	23.51	24.00	24.7
100	QPSK	270	0	23.89	24.11	24.13	
100	16QAM	1	1	22.77	23.91	22.71	23.2
100	64QAM	1	1	21.23	22.21	21.20	
100	256QAM	1	1	19.32	20.58	19.21	21.2
Channel				508200	518598	528996	25.7
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.87	24.99	24.88	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	25.7
80	PI/2 BPSK	1	1	24.84	25.01	24.94	
Channel				505200	518598	531996	25.7
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.74	24.77	24.70	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	25.7
50	PI/2 BPSK	1	1	24.74	24.78	24.73	
Channel				503202	518598	534000	25.7
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.03	24.01	24.07	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	25.7
30	PI/2 BPSK	1	1	24.03	24.00	23.99	
Channel				501204	518598	535998	25.7
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.11	24.16	24.10	25.7



n77_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.50	24.23	24.30	25.7
100	PI/2 BPSK	1	137	24.57	24.32	24.52	
100	PI/2 BPSK	1	271	24.57	24.47	24.58	
100	PI/2 BPSK	135	0	23.97	23.74	23.90	25.2
100	PI/2 BPSK	135	69	24.52	24.25	24.37	25.7
100	PI/2 BPSK	135	138	24.00	23.82	24.00	25.2
100	PI/2 BPSK	270	0	23.99	23.82	23.92	
100	QPSK	1	1	24.40	24.32	24.42	25.7
100	QPSK	1	137	24.45	24.27	24.43	
100	QPSK	1	271	24.52	24.41	24.52	
100	QPSK	135	0	23.49	23.23	23.38	24.7
100	QPSK	135	69	24.50	24.31	24.44	25.7
100	QPSK	135	138	23.53	23.28	23.38	24.7
100	QPSK	270	0	23.48	23.26	23.36	
100	16QAM	1	1	23.65	23.39	23.58	24.7
100	64QAM	1	1	22.05	21.95	22.14	23.2
100	256QAM	1	1	20.01	19.82	20.01	21.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.46	24.22	24.26	25.7
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.49	24.20	24.26	25.7



n77_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)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.24	25.10	25.03	26.5
100	PI/2 BPSK	1	137	25.34	25.16	25.08	
100	PI/2 BPSK	1	271	25.47	25.26	25.21	
100	PI/2 BPSK	135	0	24.74	24.58	24.48	26.0
100	PI/2 BPSK	135	69	25.30	25.11	25.03	26.5
100	PI/2 BPSK	135	138	24.80	24.64	24.60	26.0
100	PI/2 BPSK	270	0	24.76	24.56	24.51	
100	QPSK	1	1	25.29	25.08	25.00	26.5
100	QPSK	1	137	25.38	25.14	25.10	
100	QPSK	1	271	25.45	25.22	25.19	
100	QPSK	135	0	24.69	24.52	24.50	25.5
100	QPSK	135	69	25.25	25.05	24.98	26.5
100	QPSK	135	138	24.41	24.20	24.18	25.5
100	QPSK	270	0	24.27	24.08	24.04	
100	16QAM	1	1	24.49	24.29	24.27	25.5
100	64QAM	1	1	22.95	22.70	22.63	24.0
100	256QAM	1	1	20.84	20.65	20.55	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.22	25.08	25.01	26.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	25.23	25.07	25.02	26.5



n78_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.98		25.0
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		24.00		
100	PI/2 BPSK	135	0		23.42		24.5
100	PI/2 BPSK	135	69		23.92		25.0
100	PI/2 BPSK	135	138		23.42		24.5
100	PI/2 BPSK	270	0		23.46		
100	QPSK	1	1		23.91		25.0
100	QPSK	1	137		23.91		
100	QPSK	1	271		23.95		
100	QPSK	135	0		22.84		24.0
100	QPSK	135	69		23.93		25.0
100	QPSK	135	138		22.92		24.0
100	QPSK	270	0		22.91		
100	16QAM	1	1		22.64		24.0
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.55		20.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.90	23.92	23.77	25.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.93	23.96	23.70	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.92	23.91	23.83	25.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.86	23.79	23.82	25.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.86	23.90	23.81	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.88	23.89	23.67	25.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.87	23.95	23.89	25.0



n78_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)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		25.42		26.5
100	PI/2 BPSK	1	137		25.45		
100	PI/2 BPSK	1	271		25.49		
100	PI/2 BPSK	135	0		24.90		26.0
100	PI/2 BPSK	135	69		25.42		26.5
100	PI/2 BPSK	135	138		24.93		26.0
100	PI/2 BPSK	270	0		24.92		
100	QPSK	1	1		25.44		26.5
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.43		
100	QPSK	135	0		24.35		25.5
100	QPSK	135	69		25.35		26.5
100	QPSK	135	138		24.45		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.19		25.5
100	64QAM	1	1		22.95		24.0
100	256QAM	1	1		21.18		22.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	25.38	25.40	25.36	26.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	25.44	25.38	25.41	26.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.37	25.43	25.41	26.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	25.42	25.39	25.26	26.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	25.43	25.44	25.47	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.33	25.38	25.36	26.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	25.32	25.32	25.46	26.5



n41_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)
Channel				509202	518598	528000	25.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.76	24.70	24.68	
100	PI/2 BPSK	1	137	24.71	24.68	24.68	
100	PI/2 BPSK	1	271	24.64	24.80	24.78	
100	PI/2 BPSK	135	0	24.74	24.58	24.55	
100	PI/2 BPSK	135	69	24.71	24.60	24.54	
100	PI/2 BPSK	135	138	24.63	24.60	24.55	
100	PI/2 BPSK	270	0	24.70	24.64	24.61	
100	QPSK	1	1	24.76	24.67	24.58	
100	QPSK	1	137	24.71	24.66	24.57	
100	QPSK	1	271	24.64	24.67	24.59	
100	QPSK	135	0	24.76	24.59	24.58	
100	QPSK	135	69	24.70	24.55	24.50	
100	QPSK	135	138	24.64	24.57	24.57	
100	QPSK	270	0	24.71	24.66	24.60	
100	16QAM	1	1	24.65	24.59	24.58	
100	64QAM	1	1	24.48	24.49	24.45	
100	256QAM	1	1	22.36	22.33	22.23	
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.66	24.61	24.46	25.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.66	24.61	24.53	25.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.72	24.69	24.60	25.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.63	24.60	24.44	25.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.68	24.69	24.61	25.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.56	24.54	24.36	25.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.69	24.60	24.63	25.5



n77_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.84	23.76	23.53	25.5
100	PI/2 BPSK	1	137	23.94	23.65	23.60	
100	PI/2 BPSK	1	271	23.91	23.72	23.50	
100	PI/2 BPSK	135	0	23.30	23.09	23.00	25.0
100	PI/2 BPSK	135	69	23.85	23.55	23.56	25.5
100	PI/2 BPSK	135	138	23.38	23.16	23.01	25.0
100	PI/2 BPSK	270	0	23.37	23.07	23.04	
100	QPSK	1	1	23.79	23.57	23.36	25.5
100	QPSK	1	137	23.89	23.56	23.32	
100	QPSK	1	271	23.88	23.68	23.49	
100	QPSK	135	0	23.28	22.59	22.36	24.5
100	QPSK	135	69	23.83	23.55	23.49	25.5
100	QPSK	135	138	23.35	22.62	22.51	24.5
100	QPSK	270	0	23.35	22.64	22.56	
100	16QAM	1	1	22.54	22.91	22.72	24.5
100	64QAM	1	1	21.32	21.25	21.06	23.0
100	256QAM	1	1	19.55	19.18	18.99	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.02	23.80	25.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.12	24.03	23.83	25.5



n77_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)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.72	24.64	24.43	26.0
100	PI/2 BPSK	1	137	24.80	24.53	24.49	
100	PI/2 BPSK	1	271	24.84	24.59	24.40	
100	PI/2 BPSK	135	0	24.23	24.03	23.92	25.5
100	PI/2 BPSK	135	69	24.77	24.48	24.30	26.0
100	PI/2 BPSK	135	138	24.28	24.07	24.05	25.5
100	PI/2 BPSK	270	0	24.23	23.97	23.93	
100	QPSK	1	1	24.67	24.47	24.30	
100	QPSK	1	137	24.75	24.51	24.37	26.0
100	QPSK	1	271	24.77	24.56	24.40	
100	QPSK	135	0	23.75	23.48	23.46	
100	QPSK	135	69	24.74	24.50	24.43	26.0
100	QPSK	135	138	23.79	23.51	23.36	25.0
100	QPSK	270	0	23.79	23.45	23.38	
100	16QAM	1	1	23.89	23.70	23.67	
100	64QAM	1	1	22.32	22.16	22.03	23.5
100	256QAM	1	1	20.27	20.06	19.90	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.72	24.63	24.42	26.0
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.70	24.60	24.41	26.0



n78_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.54		25.5
100	PI/2 BPSK	1	137		23.50		
100	PI/2 BPSK	1	271		23.51		
100	PI/2 BPSK	135	0		23.07		25.0
100	PI/2 BPSK	135	69		23.50		25.5
100	PI/2 BPSK	135	138		23.14		25.0
100	PI/2 BPSK	270	0		23.08		
100	QPSK	1	1		23.50		
100	QPSK	1	137		23.51		25.5
100	QPSK	1	271		23.50		
100	QPSK	135	0		22.56		
100	QPSK	135	69		23.54		25.5
100	QPSK	135	138		22.62		24.5
100	QPSK	270	0		22.56		
100	16QAM	1	1		22.39		
100	64QAM	1	1		21.13		23.0
100	256QAM	1	1		19.34		21.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.42	23.50	23.49	25.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.59	23.63	23.57	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.63	23.60	23.57	25.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.62	23.62	23.63	25.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.55	23.63	23.59	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.44	23.59	23.50	25.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.53	23.50	23.49	25.5



n78_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)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		24.91		26.0
100	PI/2 BPSK	1	137		24.90		
100	PI/2 BPSK	1	271		24.96		
100	PI/2 BPSK	135	0		24.37		25.5
100	PI/2 BPSK	135	69		24.87		26.0
100	PI/2 BPSK	135	138		24.40		25.5
100	PI/2 BPSK	270	0		24.40		
100	QPSK	1	1		24.93		26.0
100	QPSK	1	137		24.90		
100	QPSK	1	271		24.89		
100	QPSK	135	0		23.89		25.0
100	QPSK	135	69		24.87		26.0
100	QPSK	135	138		23.93		25.0
100	QPSK	270	0		23.86		
100	16QAM	1	1		23.64		25.0
100	64QAM	1	1		22.47		23.5
100	256QAM	1	1		20.68		21.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	24.90	24.91	24.89	26.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	24.88	24.88	24.90	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.86	24.86	24.82	26.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	24.90	24.90	24.86	26.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	24.81	24.90	24.85	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.86	24.86	24.79	26.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	24.83	24.91	24.87	26.0



n41_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.64	24.69	24.59	25.7
100	PI/2 BPSK	1	137	24.76	24.70	24.66	
100	PI/2 BPSK	1	271	24.67	24.61	24.56	
100	PI/2 BPSK	135	0	24.15	24.16	24.00	25.2
100	PI/2 BPSK	135	69	24.65	24.63	24.58	25.7
100	PI/2 BPSK	135	138	24.25	24.10	24.02	25.2
100	PI/2 BPSK	270	0	24.20	24.12	24.09	
100	QPSK	1	1	24.72	24.63	24.64	25.7
100	QPSK	1	137	24.76	24.56	24.64	
100	QPSK	1	271	24.67	24.59	24.57	
100	QPSK	135	0	23.67	23.66	23.49	25.7
100	QPSK	135	69	24.63	24.54	24.57	
100	QPSK	135	138	23.65	23.51	23.55	
100	QPSK	270	0	23.69	23.62	23.55	24.7
100	16QAM	1	1	23.79	23.88	23.74	24.7
100	64QAM	1	1	22.29	22.36	22.28	23.2
100	256QAM	1	1	20.38	20.39	20.28	21.2
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.60	24.53	24.49	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.64	24.61	24.59	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.58	24.59	24.60	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.60	24.64	24.52	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.61	24.55	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.54	24.51	24.55	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.39	24.51	24.44	25.7



n41_HPUE PC2_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.07	26.76	25.88	27.5
100	PI/2 BPSK	1	137	26.03	26.04	25.78	
100	PI/2 BPSK	1	271	26.50	26.59	26.58	
100	PI/2 BPSK	135	0	26.08	26.10	26.08	27.0
100	PI/2 BPSK	135	69	26.15	26.34	26.20	27.5
100	PI/2 BPSK	135	138	26.33	26.33	23.30	27.0
100	PI/2 BPSK	270	0	26.27	26.33	26.26	
100	QPSK	1	1	26.65	26.75	26.66	27.5
100	QPSK	1	137	26.18	26.24	26.18	
100	QPSK	1	271	26.53	26.61	26.60	
100	QPSK	135	0	25.91	25.92	25.86	26.5
100	QPSK	135	69	26.12	26.12	26.04	27.5
100	QPSK	135	138	25.91	25.96	25.91	26.5
100	QPSK	270	0	25.84	25.92	25.84	
100	16QAM	1	1	26.15	26.19	26.19	26.5
100	64QAM	1	1	24.66	24.66	24.64	25.0
100	256QAM	1	1	22.56	22.66	22.59	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.63	26.66	25.49	27.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.71	26.71	25.55	27.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.72	26.76	25.60	27.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.05	26.74	25.82	27.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.75	26.73	25.59	27.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.99	26.68	25.85	27.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.77	26.67	25.57	27.5



n41 PC3_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)
Channel				509202	518598	528000	25.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.77	25.03	23.51	25.7
100	PI/2 BPSK	1	137	25.17	24.13	25.19	
100	PI/2 BPSK	1	271	23.71	24.34	22.70	25.2
100	PI/2 BPSK	135	0	24.09	24.66	24.02	
100	PI/2 BPSK	135	69	25.01	24.67	24.99	25.2
100	PI/2 BPSK	135	138	24.10	23.86	24.04	
100	PI/2 BPSK	270	0	24.14	24.48	24.22	25.7
100	QPSK	1	1	23.70	25.02	23.52	
100	QPSK	1	137	25.01	24.10	25.15	24.7
100	QPSK	1	271	23.73	24.26	23.70	
100	QPSK	135	0	23.59	24.20	23.44	24.7
100	QPSK	135	69	25.02	24.76	24.90	
100	QPSK	135	138	23.57	23.51	24.00	24.7
100	QPSK	270	0	23.89	24.11	24.13	
100	16QAM	1	1	22.77	23.91	22.71	24.7
100	64QAM	1	1	21.23	22.21	21.20	
100	256QAM	1	1	19.32	20.58	19.21	21.2
Channel				508200	518598	528996	25.7
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.87	24.99	24.88	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	25.7
80	PI/2 BPSK	1	1	24.84	25.01	24.94	
Channel				505200	518598	531996	25.7
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.74	24.77	24.70	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	25.7
50	PI/2 BPSK	1	1	24.74	24.78	24.73	
Channel				503202	518598	534000	25.7
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.03	24.01	24.07	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	25.7
30	PI/2 BPSK	1	1	24.03	24.00	23.99	
Channel				501204	518598	535998	25.7
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.11	24.16	24.10	25.7
Channel							



n77_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.50	24.23	24.30	25.7
100	PI/2 BPSK	1	137	24.57	24.32	24.52	
100	PI/2 BPSK	1	271	24.57	24.47	24.58	
100	PI/2 BPSK	135	0	23.97	23.74	23.90	25.2
100	PI/2 BPSK	135	69	24.52	24.25	24.37	25.7
100	PI/2 BPSK	135	138	24.00	23.82	24.00	25.2
100	PI/2 BPSK	270	0	23.99	23.82	23.92	
100	QPSK	1	1	24.40	24.32	24.42	25.7
100	QPSK	1	137	24.45	24.27	24.43	
100	QPSK	1	271	24.52	24.41	24.52	
100	QPSK	135	0	23.49	23.23	23.38	24.7
100	QPSK	135	69	24.50	24.31	24.44	25.7
100	QPSK	135	138	23.53	23.28	23.38	24.7
100	QPSK	270	0	23.48	23.26	23.36	
100	16QAM	1	1	23.65	23.39	23.58	24.7
100	64QAM	1	1	22.05	21.95	22.14	23.2
100	256QAM	1	1	20.01	19.82	20.01	21.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.46	24.22	24.26	25.7
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.49	24.20	24.26	25.7



n77_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)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.24	25.10	25.03	26.5
100	PI/2 BPSK	1	137	25.34	25.16	25.08	
100	PI/2 BPSK	1	271	25.47	25.26	25.21	
100	PI/2 BPSK	135	0	24.74	24.58	24.48	26.0
100	PI/2 BPSK	135	69	25.30	25.11	25.03	26.5
100	PI/2 BPSK	135	138	24.80	24.64	24.60	26.0
100	PI/2 BPSK	270	0	24.76	24.56	24.51	
100	QPSK	1	1	25.29	25.08	25.00	26.5
100	QPSK	1	137	25.38	25.14	25.10	
100	QPSK	1	271	25.45	25.22	25.19	
100	QPSK	135	0	24.69	24.52	24.50	25.5
100	QPSK	135	69	25.25	25.05	24.98	26.5
100	QPSK	135	138	24.41	24.20	24.18	25.5
100	QPSK	270	0	24.27	24.08	24.04	
100	16QAM	1	1	24.49	24.29	24.27	25.5
100	64QAM	1	1	22.95	22.70	22.63	24.0
100	256QAM	1	1	20.84	20.65	20.55	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.22	25.08	25.01	26.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	25.23	25.07	25.02	26.5



n78_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.98		25.0
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		24.00		
100	PI/2 BPSK	135	0		23.42		24.5
100	PI/2 BPSK	135	69		23.92		25.0
100	PI/2 BPSK	135	138		23.42		24.5
100	PI/2 BPSK	270	0		23.46		
100	QPSK	1	1		23.91		25.0
100	QPSK	1	137		23.91		
100	QPSK	1	271		23.95		
100	QPSK	135	0		22.84		24.0
100	QPSK	135	69		23.93		25.0
100	QPSK	135	138		22.92		24.0
100	QPSK	270	0		22.91		
100	16QAM	1	1		22.64		24.0
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.55		20.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.90	23.92	23.77	25.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.93	23.96	23.70	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.92	23.91	23.83	25.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.86	23.79	23.82	25.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.86	23.90	23.81	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.88	23.89	23.67	25.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.87	23.95	23.89	25.0



n78_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)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		25.42		26.5
100	PI/2 BPSK	1	137		25.45		
100	PI/2 BPSK	1	271		25.49		
100	PI/2 BPSK	135	0		24.90		26.0
100	PI/2 BPSK	135	69		25.42		26.5
100	PI/2 BPSK	135	138		24.93		26.0
100	PI/2 BPSK	270	0		24.92		
100	QPSK	1	1		25.44		26.5
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.43		
100	QPSK	135	0		24.35		25.5
100	QPSK	135	69		25.35		26.5
100	QPSK	135	138		24.45		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.19		25.5
100	64QAM	1	1		22.95		24.0
100	256QAM	1	1		21.18		22.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	25.38	25.40	25.36	26.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	25.44	25.38	25.41	26.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.37	25.43	25.41	26.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	25.42	25.39	25.26	26.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	25.43	25.44	25.47	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.33	25.38	25.36	26.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	25.32	25.32	25.46	26.5



n41_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.76	24.70	24.68	25.5
100	PI/2 BPSK	1	137	24.71	24.68	24.68	
100	PI/2 BPSK	1	271	24.64	24.80	24.78	
100	PI/2 BPSK	135	0	24.74	24.58	24.55	25.0
100	PI/2 BPSK	135	69	24.71	24.60	24.54	25.5
100	PI/2 BPSK	135	138	24.63	24.60	24.55	25.0
100	PI/2 BPSK	270	0	24.70	24.64	24.61	
100	QPSK	1	1	24.76	24.67	24.58	25.5
100	QPSK	1	137	24.71	24.66	24.57	
100	QPSK	1	271	24.64	24.67	24.59	
100	QPSK	135	0	24.76	24.59	24.58	25.5
100	QPSK	135	69	24.70	24.55	24.50	25.5
100	QPSK	135	138	24.64	24.57	24.57	25.5
100	QPSK	270	0	24.71	24.66	24.60	
100	16QAM	1	1	24.65	24.59	24.58	25.5
100	64QAM	1	1	24.48	24.49	24.45	25.5
100	256QAM	1	1	22.36	22.33	22.23	22.5
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.66	24.61	24.46	25.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.66	24.61	24.53	25.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.72	24.69	24.60	25.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.63	24.60	24.44	25.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.68	24.69	24.61	25.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.56	24.54	24.36	25.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.69	24.60	24.63	25.5



n77_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.84	23.76	23.53	25.5
100	PI/2 BPSK	1	137	23.94	23.65	23.60	
100	PI/2 BPSK	1	271	23.91	23.72	23.50	
100	PI/2 BPSK	135	0	23.30	23.09	23.00	25.0
100	PI/2 BPSK	135	69	23.85	23.55	23.56	25.5
100	PI/2 BPSK	135	138	23.38	23.16	23.01	25.0
100	PI/2 BPSK	270	0	23.37	23.07	23.04	
100	QPSK	1	1	23.79	23.57	23.36	25.5
100	QPSK	1	137	23.89	23.56	23.32	
100	QPSK	1	271	23.88	23.68	23.49	
100	QPSK	135	0	23.28	22.59	22.36	24.5
100	QPSK	135	69	23.83	23.55	23.49	25.5
100	QPSK	135	138	23.35	22.62	22.51	24.5
100	QPSK	270	0	23.35	22.64	22.56	
100	16QAM	1	1	22.54	22.91	22.72	24.5
100	64QAM	1	1	21.32	21.25	21.06	23.0
100	256QAM	1	1	19.55	19.18	18.99	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.02	23.80	25.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.12	24.03	23.83	25.5



n77_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)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.72	24.64	24.43	26.0
100	PI/2 BPSK	1	137	24.80	24.53	24.49	
100	PI/2 BPSK	1	271	24.84	24.59	24.40	
100	PI/2 BPSK	135	0	24.23	24.03	23.92	25.5
100	PI/2 BPSK	135	69	24.77	24.48	24.30	26.0
100	PI/2 BPSK	135	138	24.28	24.07	24.05	25.5
100	PI/2 BPSK	270	0	24.23	23.97	23.93	
100	QPSK	1	1	24.67	24.47	24.30	
100	QPSK	1	137	24.75	24.51	24.37	26.0
100	QPSK	1	271	24.77	24.56	24.40	
100	QPSK	135	0	23.75	23.48	23.46	
100	QPSK	135	69	24.74	24.50	24.43	26.0
100	QPSK	135	138	23.79	23.51	23.36	25.0
100	QPSK	270	0	23.79	23.45	23.38	
100	16QAM	1	1	23.89	23.70	23.67	
100	64QAM	1	1	22.32	22.16	22.03	23.5
100	256QAM	1	1	20.27	20.06	19.90	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.72	24.63	24.42	26.0
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.70	24.60	24.41	26.0



n78_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.54		25.5
100	PI/2 BPSK	1	137		23.50		
100	PI/2 BPSK	1	271		23.51		
100	PI/2 BPSK	135	0		23.07		25.0
100	PI/2 BPSK	135	69		23.50		25.5
100	PI/2 BPSK	135	138		23.14		25.0
100	PI/2 BPSK	270	0		23.08		
100	QPSK	1	1		23.50		
100	QPSK	1	137		23.51		25.5
100	QPSK	1	271		23.50		
100	QPSK	135	0		22.56		
100	QPSK	135	69		23.54		25.5
100	QPSK	135	138		22.62		24.5
100	QPSK	270	0		22.56		
100	16QAM	1	1		22.39		
100	64QAM	1	1		21.13		23.0
100	256QAM	1	1		19.34		21.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.42	23.50	23.49	25.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.59	23.63	23.57	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.63	23.60	23.57	25.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.62	23.62	23.63	25.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.55	23.63	23.59	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.44	23.59	23.50	25.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.53	23.50	23.49	25.5



n78_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)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		24.91		26.0
100	PI/2 BPSK	1	137		24.90		
100	PI/2 BPSK	1	271		24.96		
100	PI/2 BPSK	135	0		24.37		25.5
100	PI/2 BPSK	135	69		24.87		26.0
100	PI/2 BPSK	135	138		24.40		25.5
100	PI/2 BPSK	270	0		24.40		
100	QPSK	1	1		24.93		26.0
100	QPSK	1	137		24.90		
100	QPSK	1	271		24.89		
100	QPSK	135	0		23.89		25.0
100	QPSK	135	69		24.87		26.0
100	QPSK	135	138		23.93		25.0
100	QPSK	270	0		23.86		
100	16QAM	1	1		23.64		25.0
100	64QAM	1	1		22.47		23.5
100	256QAM	1	1		20.68		21.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	24.90	24.91	24.89	26.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	24.88	24.88	24.90	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.86	24.86	24.82	26.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	24.90	24.90	24.86	26.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	24.81	24.90	24.85	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.86	24.86	24.79	26.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	24.83	24.91	24.87	26.0



n41_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.64	24.69	24.59	25.7
100	PI/2 BPSK	1	137	24.76	24.70	24.66	
100	PI/2 BPSK	1	271	24.67	24.61	24.56	
100	PI/2 BPSK	135	0	24.15	24.16	24.00	25.2
100	PI/2 BPSK	135	69	24.65	24.63	24.58	25.7
100	PI/2 BPSK	135	138	24.25	24.10	24.02	25.2
100	PI/2 BPSK	270	0	24.20	24.12	24.09	
100	QPSK	1	1	24.72	24.63	24.64	25.7
100	QPSK	1	137	24.76	24.56	24.64	
100	QPSK	1	271	24.67	24.59	24.57	
100	QPSK	135	0	23.67	23.66	23.49	25.7
100	QPSK	135	69	24.63	24.54	24.57	
100	QPSK	135	138	23.65	23.51	23.55	
100	QPSK	270	0	23.69	23.62	23.55	24.7
100	16QAM	1	1	23.79	23.88	23.74	24.7
100	64QAM	1	1	22.29	22.36	22.28	23.2
100	256QAM	1	1	20.38	20.39	20.28	21.2
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.60	24.53	24.49	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.64	24.61	24.59	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.58	24.59	24.60	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.60	24.64	24.52	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.61	24.55	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.54	24.51	24.55	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.39	24.51	24.44	25.7



n41_HPUE PC2_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	26.07	26.76	25.88	27.5
100	PI/2 BPSK	1	137	26.03	26.04	25.78	
100	PI/2 BPSK	1	271	26.50	26.59	26.58	
100	PI/2 BPSK	135	0	26.08	26.10	26.08	27.0
100	PI/2 BPSK	135	69	26.15	26.34	26.20	27.5
100	PI/2 BPSK	135	138	26.33	26.33	23.30	27.0
100	PI/2 BPSK	270	0	26.27	26.33	26.26	
100	QPSK	1	1	26.65	26.75	26.66	27.5
100	QPSK	1	137	26.18	26.24	26.18	
100	QPSK	1	271	26.53	26.61	26.60	
100	QPSK	135	0	25.91	25.92	25.86	26.5
100	QPSK	135	69	26.12	26.12	26.04	27.5
100	QPSK	135	138	25.91	25.96	25.91	26.5
100	QPSK	270	0	25.84	25.92	25.84	
100	16QAM	1	1	26.15	26.19	26.19	26.5
100	64QAM	1	1	24.66	24.66	24.64	25.0
100	256QAM	1	1	22.56	22.66	22.59	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	25.63	26.66	25.49	27.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	25.71	26.71	25.55	27.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	25.72	26.76	25.60	27.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	26.05	26.74	25.82	27.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	25.75	26.73	25.59	27.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	25.99	26.68	25.85	27.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	25.77	26.67	25.57	27.5



n41 PC3_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)
Channel				509202	518598	528000	25.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.77	25.03	23.51	25.7
100	PI/2 BPSK	1	137	25.17	24.13	25.19	
100	PI/2 BPSK	1	271	23.71	24.34	22.70	25.2
100	PI/2 BPSK	135	0	24.09	24.66	24.02	
100	PI/2 BPSK	135	69	25.01	24.67	24.99	25.2
100	PI/2 BPSK	135	138	24.10	23.86	24.04	
100	PI/2 BPSK	270	0	24.14	24.48	24.22	25.7
100	QPSK	1	1	23.70	25.02	23.52	
100	QPSK	1	137	25.01	24.10	25.15	24.7
100	QPSK	1	271	23.73	24.26	23.70	
100	QPSK	135	0	23.59	24.20	23.44	25.7
100	QPSK	135	69	25.02	24.76	24.90	
100	QPSK	135	138	23.57	23.51	24.00	24.7
100	QPSK	270	0	23.89	24.11	24.13	
100	16QAM	1	1	22.77	23.91	22.71	23.2
100	64QAM	1	1	21.23	22.21	21.20	
100	256QAM	1	1	19.32	20.58	19.21	21.2
Channel				508200	518598	528996	25.7
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.87	24.99	24.88	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	25.7
80	PI/2 BPSK	1	1	24.84	25.01	24.94	
Channel				505200	518598	531996	25.7
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.74	24.77	24.70	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	25.7
50	PI/2 BPSK	1	1	24.74	24.78	24.73	
Channel				503202	518598	534000	25.7
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.03	24.01	24.07	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	25.7
30	PI/2 BPSK	1	1	24.03	24.00	23.99	
Channel				501204	518598	535998	25.7
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.11	24.16	24.10	25.7



n77_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.50	24.23	24.30	25.7
100	PI/2 BPSK	1	137	24.57	24.32	24.52	
100	PI/2 BPSK	1	271	24.57	24.47	24.58	
100	PI/2 BPSK	135	0	23.97	23.74	23.90	25.2
100	PI/2 BPSK	135	69	24.52	24.25	24.37	25.7
100	PI/2 BPSK	135	138	24.00	23.82	24.00	25.2
100	PI/2 BPSK	270	0	23.99	23.82	23.92	
100	QPSK	1	1	24.40	24.32	24.42	25.7
100	QPSK	1	137	24.45	24.27	24.43	
100	QPSK	1	271	24.52	24.41	24.52	
100	QPSK	135	0	23.49	23.23	23.38	24.7
100	QPSK	135	69	24.50	24.31	24.44	25.7
100	QPSK	135	138	23.53	23.28	23.38	24.7
100	QPSK	270	0	23.48	23.26	23.36	
100	16QAM	1	1	23.65	23.39	23.58	24.7
100	64QAM	1	1	22.05	21.95	22.14	23.2
100	256QAM	1	1	20.01	19.82	20.01	21.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.46	24.22	24.26	25.7
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.49	24.20	24.26	25.7



n77_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)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.24	25.10	25.03	26.5
100	PI/2 BPSK	1	137	25.34	25.16	25.08	
100	PI/2 BPSK	1	271	25.47	25.26	25.21	
100	PI/2 BPSK	135	0	24.74	24.58	24.48	26.0
100	PI/2 BPSK	135	69	25.30	25.11	25.03	26.5
100	PI/2 BPSK	135	138	24.80	24.64	24.60	26.0
100	PI/2 BPSK	270	0	24.76	24.56	24.51	
100	QPSK	1	1	25.29	25.08	25.00	26.5
100	QPSK	1	137	25.38	25.14	25.10	
100	QPSK	1	271	25.45	25.22	25.19	
100	QPSK	135	0	24.69	24.52	24.50	25.5
100	QPSK	135	69	25.25	25.05	24.98	26.5
100	QPSK	135	138	24.41	24.20	24.18	25.5
100	QPSK	270	0	24.27	24.08	24.04	
100	16QAM	1	1	24.49	24.29	24.27	25.5
100	64QAM	1	1	22.95	22.70	22.63	24.0
100	256QAM	1	1	20.84	20.65	20.55	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.22	25.08	25.01	26.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	25.23	25.07	25.02	26.5



n78_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.98		25.0
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		24.00		
100	PI/2 BPSK	135	0		23.42		24.5
100	PI/2 BPSK	135	69		23.92		25.0
100	PI/2 BPSK	135	138		23.42		24.5
100	PI/2 BPSK	270	0		23.46		
100	QPSK	1	1		23.91		25.0
100	QPSK	1	137		23.91		
100	QPSK	1	271		23.95		
100	QPSK	135	0		22.84		24.0
100	QPSK	135	69		23.93		25.0
100	QPSK	135	138		22.92		24.0
100	QPSK	270	0		22.91		
100	16QAM	1	1		22.64		24.0
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.55		20.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.90	23.92	23.77	25.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.93	23.96	23.70	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.92	23.91	23.83	25.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.86	23.79	23.82	25.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.86	23.90	23.81	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.88	23.89	23.67	25.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.87	23.95	23.89	25.0



n78_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)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		25.42		26.5
100	PI/2 BPSK	1	137		25.45		
100	PI/2 BPSK	1	271		25.49		
100	PI/2 BPSK	135	0		24.90		26.0
100	PI/2 BPSK	135	69		25.42		26.5
100	PI/2 BPSK	135	138		24.93		26.0
100	PI/2 BPSK	270	0		24.92		
100	QPSK	1	1		25.44		26.5
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.43		
100	QPSK	135	0		24.35		25.5
100	QPSK	135	69		25.35		26.5
100	QPSK	135	138		24.45		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.19		25.5
100	64QAM	1	1		22.95		24.0
100	256QAM	1	1		21.18		22.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	25.38	25.40	25.36	26.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	25.44	25.38	25.41	26.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.37	25.43	25.41	26.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	25.42	25.39	25.26	26.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	25.43	25.44	25.47	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.33	25.38	25.36	26.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	25.32	25.32	25.46	26.5



n41_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)
Channel				509202	518598	528000	25.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.76	24.70	24.68	
100	PI/2 BPSK	1	137	24.71	24.68	24.68	
100	PI/2 BPSK	1	271	24.64	24.80	24.78	
100	PI/2 BPSK	135	0	24.74	24.58	24.55	
100	PI/2 BPSK	135	69	24.71	24.60	24.54	
100	PI/2 BPSK	135	138	24.63	24.60	24.55	
100	PI/2 BPSK	270	0	24.70	24.64	24.61	
100	QPSK	1	1	24.76	24.67	24.58	
100	QPSK	1	137	24.71	24.66	24.57	
100	QPSK	1	271	24.64	24.67	24.59	
100	QPSK	135	0	24.76	24.59	24.58	
100	QPSK	135	69	24.70	24.55	24.50	
100	QPSK	135	138	24.64	24.57	24.57	
100	QPSK	270	0	24.71	24.66	24.60	
100	16QAM	1	1	24.65	24.59	24.58	
100	64QAM	1	1	24.48	24.49	24.45	
100	256QAM	1	1	22.36	22.33	22.23	
Channel				508200	518598	528996	25.5
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.66	24.61	24.46	
Channel				507204	518598	529998	25.5
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.66	24.61	24.53	
Channel				505200	518598	531996	25.5
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.72	24.69	24.60	
Channel				504204	518598	532998	25.5
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.63	24.60	24.44	
Channel				503202	518598	534000	25.5
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.68	24.69	24.61	
Channel				502200	518598	534996	25.5
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.56	24.54	24.36	
Channel				501204	518598	535998	25.5
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.69	24.60	24.63	



n77_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.84	23.76	23.53	25.5
100	PI/2 BPSK	1	137	23.94	23.65	23.60	
100	PI/2 BPSK	1	271	23.91	23.72	23.50	
100	PI/2 BPSK	135	0	23.30	23.09	23.00	25.0
100	PI/2 BPSK	135	69	23.85	23.55	23.56	25.5
100	PI/2 BPSK	135	138	23.38	23.16	23.01	25.0
100	PI/2 BPSK	270	0	23.37	23.07	23.04	
100	QPSK	1	1	23.79	23.57	23.36	25.5
100	QPSK	1	137	23.89	23.56	23.32	
100	QPSK	1	271	23.88	23.68	23.49	
100	QPSK	135	0	23.28	22.59	22.36	24.5
100	QPSK	135	69	23.83	23.55	23.49	25.5
100	QPSK	135	138	23.35	22.62	22.51	24.5
100	QPSK	270	0	23.35	22.64	22.56	
100	16QAM	1	1	22.54	22.91	22.72	24.5
100	64QAM	1	1	21.32	21.25	21.06	23.0
100	256QAM	1	1	19.55	19.18	18.99	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.02	23.80	25.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.12	24.03	23.83	25.5



n77_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)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.72	24.64	24.43	26.0
100	PI/2 BPSK	1	137	24.80	24.53	24.49	
100	PI/2 BPSK	1	271	24.84	24.59	24.40	
100	PI/2 BPSK	135	0	24.23	24.03	23.92	25.5
100	PI/2 BPSK	135	69	24.77	24.48	24.30	26.0
100	PI/2 BPSK	135	138	24.28	24.07	24.05	25.5
100	PI/2 BPSK	270	0	24.23	23.97	23.93	
100	QPSK	1	1	24.67	24.47	24.30	
100	QPSK	1	137	24.75	24.51	24.37	26.0
100	QPSK	1	271	24.77	24.56	24.40	
100	QPSK	135	0	23.75	23.48	23.46	
100	QPSK	135	69	24.74	24.50	24.43	26.0
100	QPSK	135	138	23.79	23.51	23.36	25.0
100	QPSK	270	0	23.79	23.45	23.38	
100	16QAM	1	1	23.89	23.70	23.67	
100	64QAM	1	1	22.32	22.16	22.03	23.5
100	256QAM	1	1	20.27	20.06	19.90	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.72	24.63	24.42	26.0
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.70	24.60	24.41	26.0



n78_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.54		25.5
100	PI/2 BPSK	1	137		23.50		
100	PI/2 BPSK	1	271		23.51		
100	PI/2 BPSK	135	0		23.07		25.0
100	PI/2 BPSK	135	69		23.50		25.5
100	PI/2 BPSK	135	138		23.14		25.0
100	PI/2 BPSK	270	0		23.08		
100	QPSK	1	1		23.50		
100	QPSK	1	137		23.51		25.5
100	QPSK	1	271		23.50		
100	QPSK	135	0		22.56		
100	QPSK	135	69		23.54		25.5
100	QPSK	135	138		22.62		24.5
100	QPSK	270	0		22.56		
100	16QAM	1	1		22.39		
100	64QAM	1	1		21.13		23.0
100	256QAM	1	1		19.34		21.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.42	23.50	23.49	25.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.59	23.63	23.57	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.63	23.60	23.57	25.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.62	23.62	23.63	25.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.55	23.63	23.59	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.44	23.59	23.50	25.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.53	23.50	23.49	25.5



n78_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)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		24.91		26.0
100	PI/2 BPSK	1	137		24.90		
100	PI/2 BPSK	1	271		24.96		
100	PI/2 BPSK	135	0		24.37		25.5
100	PI/2 BPSK	135	69		24.87		26.0
100	PI/2 BPSK	135	138		24.40		25.5
100	PI/2 BPSK	270	0		24.40		
100	QPSK	1	1		24.93		26.0
100	QPSK	1	137		24.90		
100	QPSK	1	271		24.89		
100	QPSK	135	0		23.89		25.0
100	QPSK	135	69		24.87		26.0
100	QPSK	135	138		23.93		25.0
100	QPSK	270	0		23.86		
100	16QAM	1	1		23.64		25.0
100	64QAM	1	1		22.47		23.5
100	256QAM	1	1		20.68		21.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	24.90	24.91	24.89	26.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	24.88	24.88	24.90	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.86	24.86	24.82	26.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	24.90	24.90	24.86	26.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	24.81	24.90	24.85	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.86	24.86	24.79	26.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	24.83	24.91	24.87	26.0



n41_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.64	24.69	24.59	25.7
100	PI/2 BPSK	1	137	24.76	24.70	24.66	
100	PI/2 BPSK	1	271	24.67	24.61	24.56	
100	PI/2 BPSK	135	0	24.15	24.16	24.00	25.2
100	PI/2 BPSK	135	69	24.65	24.63	24.58	25.7
100	PI/2 BPSK	135	138	24.25	24.10	24.02	25.2
100	PI/2 BPSK	270	0	24.20	24.12	24.09	
100	QPSK	1	1	24.72	24.63	24.64	25.7
100	QPSK	1	137	24.76	24.56	24.64	
100	QPSK	1	271	24.67	24.59	24.57	
100	QPSK	135	0	23.67	23.66	23.49	25.7
100	QPSK	135	69	24.63	24.54	24.57	
100	QPSK	135	138	23.65	23.51	23.55	
100	QPSK	270	0	23.69	23.62	23.55	24.7
100	16QAM	1	1	23.79	23.88	23.74	24.7
100	64QAM	1	1	22.29	22.36	22.28	23.2
100	256QAM	1	1	20.38	20.39	20.28	21.2
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.60	24.53	24.49	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.64	24.61	24.59	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.58	24.59	24.60	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.60	24.64	24.52	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.61	24.55	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.54	24.51	24.55	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.39	24.51	24.44	25.7



n41_HPUE PC2_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.85	25.38	25.24	26.8
100	PI/2 BPSK	1	137	25.37	25.31	25.17	
100	PI/2 BPSK	1	271	25.37	25.21	25.07	
100	PI/2 BPSK	135	0	25.09	25.23	25.12	26.8
100	PI/2 BPSK	135	69	25.32	25.45	25.06	26.8
100	PI/2 BPSK	135	138	25.30	25.18	25.11	26.8
100	PI/2 BPSK	270	0	25.27	25.40	25.17	
100	QPSK	1	1	24.85	25.32	25.26	
100	QPSK	1	137	25.37	25.29	25.13	26.8
100	QPSK	1	271	25.35	25.20	25.08	
100	QPSK	135	0	25.09	25.20	25.13	
100	QPSK	135	69	25.33	25.22	25.10	26.8
100	QPSK	135	138	25.31	25.17	25.08	26.5
100	QPSK	270	0	25.22	25.29	25.11	
100	16QAM	1	1	24.82	25.46	24.80	
100	64QAM	1	1	23.33	24.46	23.08	25.0
100	256QAM	1	1	21.57	22.65	21.94	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.71	25.25	25.17	26.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.79	25.34	25.23	26.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.84	25.37	25.14	26.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.83	25.37	25.20	26.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.79	25.28	25.18	26.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.77	25.28	25.15	26.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.76	25.28	25.17	26.8



n41 PC3_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.77	25.03	23.51	25.7
100	PI/2 BPSK	1	137	25.17	24.13	25.19	
100	PI/2 BPSK	1	271	23.71	24.34	22.70	
100	PI/2 BPSK	135	0	24.09	24.66	24.02	25.2
100	PI/2 BPSK	135	69	25.01	24.67	24.99	25.7
100	PI/2 BPSK	135	138	24.10	23.86	24.04	25.2
100	PI/2 BPSK	270	0	24.14	24.48	24.22	
100	QPSK	1	1	23.70	25.02	23.52	25.7
100	QPSK	1	137	25.01	24.10	25.15	
100	QPSK	1	271	23.73	24.26	23.70	
100	QPSK	135	0	23.59	24.20	23.44	25.4
100	QPSK	135	69	25.02	24.76	24.90	25.7
100	QPSK	135	138	23.57	23.51	24.00	25.4
100	QPSK	270	0	23.89	24.11	24.13	
100	16QAM	1	1	22.77	23.91	22.71	25.4
100	64QAM	1	1	21.23	22.21	21.20	23.9
100	256QAM	1	1	19.32	20.58	19.21	21.9
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.87	24.99	24.88	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.84	25.01	24.94	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.74	24.77	24.70	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.74	24.78	24.73	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.03	24.01	24.07	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.03	24.00	23.99	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.11	24.16	24.10	25.7



n77_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.50	24.23	24.30	25.7
100	PI/2 BPSK	1	137	24.57	24.32	24.52	
100	PI/2 BPSK	1	271	24.57	24.47	24.58	
100	PI/2 BPSK	135	0	23.97	23.74	23.90	25.2
100	PI/2 BPSK	135	69	24.52	24.25	24.37	25.7
100	PI/2 BPSK	135	138	24.00	23.82	24.00	25.2
100	PI/2 BPSK	270	0	23.99	23.82	23.92	
100	QPSK	1	1	24.40	24.32	24.42	25.7
100	QPSK	1	137	24.45	24.27	24.43	
100	QPSK	1	271	24.52	24.41	24.52	
100	QPSK	135	0	23.49	23.23	23.38	24.7
100	QPSK	135	69	24.50	24.31	24.44	25.7
100	QPSK	135	138	23.53	23.28	23.38	24.7
100	QPSK	270	0	23.48	23.26	23.36	
100	16QAM	1	1	23.65	23.39	23.58	24.7
100	64QAM	1	1	22.05	21.95	22.14	23.2
100	256QAM	1	1	20.01	19.82	20.01	21.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.46	24.22	24.26	25.7
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.49	24.20	24.26	25.7



n77_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)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.24	25.10	25.03	26.5
100	PI/2 BPSK	1	137	25.34	25.16	25.08	
100	PI/2 BPSK	1	271	25.47	25.26	25.21	
100	PI/2 BPSK	135	0	24.74	24.58	24.48	26.0
100	PI/2 BPSK	135	69	25.30	25.11	25.03	26.5
100	PI/2 BPSK	135	138	24.80	24.64	24.60	26.0
100	PI/2 BPSK	270	0	24.76	24.56	24.51	
100	QPSK	1	1	25.29	25.08	25.00	26.5
100	QPSK	1	137	25.38	25.14	25.10	
100	QPSK	1	271	25.45	25.22	25.19	
100	QPSK	135	0	24.69	24.52	24.50	25.5
100	QPSK	135	69	25.25	25.05	24.98	26.5
100	QPSK	135	138	24.41	24.20	24.18	25.5
100	QPSK	270	0	24.27	24.08	24.04	
100	16QAM	1	1	24.49	24.29	24.27	25.5
100	64QAM	1	1	22.95	22.70	22.63	24.0
100	256QAM	1	1	20.84	20.65	20.55	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.22	25.08	25.01	26.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	25.23	25.07	25.02	26.5



n78_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.98		25.0
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		24.00		
100	PI/2 BPSK	135	0		23.42		24.5
100	PI/2 BPSK	135	69		23.92		25.0
100	PI/2 BPSK	135	138		23.42		24.5
100	PI/2 BPSK	270	0		23.46		
100	QPSK	1	1		23.91		25.0
100	QPSK	1	137		23.91		
100	QPSK	1	271		23.95		
100	QPSK	135	0		22.84		24.0
100	QPSK	135	69		23.93		25.0
100	QPSK	135	138		22.92		24.0
100	QPSK	270	0		22.91		
100	16QAM	1	1		22.64		24.0
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.55		20.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.90	23.92	23.77	25.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.93	23.96	23.70	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.92	23.91	23.83	25.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.86	23.79	23.82	25.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.86	23.90	23.81	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.88	23.89	23.67	25.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.87	23.95	23.89	25.0



n78_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)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		25.42		26.5
100	PI/2 BPSK	1	137		25.45		
100	PI/2 BPSK	1	271		25.49		
100	PI/2 BPSK	135	0		24.90		26.0
100	PI/2 BPSK	135	69		25.42		26.5
100	PI/2 BPSK	135	138		24.93		26.0
100	PI/2 BPSK	270	0		24.92		
100	QPSK	1	1		25.44		26.5
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.43		
100	QPSK	135	0		24.35		25.5
100	QPSK	135	69		25.35		26.5
100	QPSK	135	138		24.45		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.19		25.5
100	64QAM	1	1		22.95		24.0
100	256QAM	1	1		21.18		22.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	25.38	25.40	25.36	26.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	25.44	25.38	25.41	26.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.37	25.43	25.41	26.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	25.42	25.39	25.26	26.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	25.43	25.44	25.47	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.33	25.38	25.36	26.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	25.32	25.32	25.46	26.5



n41_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)
Channel				509202	518598	528000	25.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.76	24.70	24.68	
100	PI/2 BPSK	1	137	24.71	24.68	24.68	
100	PI/2 BPSK	1	271	24.64	24.80	24.78	
100	PI/2 BPSK	135	0	24.74	24.58	24.55	
100	PI/2 BPSK	135	69	24.71	24.60	24.54	
100	PI/2 BPSK	135	138	24.63	24.60	24.55	
100	PI/2 BPSK	270	0	24.70	24.64	24.61	
100	QPSK	1	1	24.76	24.67	24.58	
100	QPSK	1	137	24.71	24.66	24.57	
100	QPSK	1	271	24.64	24.67	24.59	
100	QPSK	135	0	24.76	24.59	24.58	
100	QPSK	135	69	24.70	24.55	24.50	
100	QPSK	135	138	24.64	24.57	24.57	
100	QPSK	270	0	24.71	24.66	24.60	
100	16QAM	1	1	24.65	24.59	24.58	
100	64QAM	1	1	24.48	24.49	24.45	
100	256QAM	1	1	22.36	22.33	22.23	
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.66	24.61	24.46	25.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.66	24.61	24.53	25.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.72	24.69	24.60	25.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.63	24.60	24.44	25.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.68	24.69	24.61	25.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.56	24.54	24.36	25.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.69	24.60	24.63	25.5



n77_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.84	23.76	23.53	25.5
100	PI/2 BPSK	1	137	23.94	23.65	23.60	
100	PI/2 BPSK	1	271	23.91	23.72	23.50	
100	PI/2 BPSK	135	0	23.30	23.09	23.00	25.0
100	PI/2 BPSK	135	69	23.85	23.55	23.56	25.5
100	PI/2 BPSK	135	138	23.38	23.16	23.01	25.0
100	PI/2 BPSK	270	0	23.37	23.07	23.04	
100	QPSK	1	1	23.79	23.57	23.36	25.5
100	QPSK	1	137	23.89	23.56	23.32	
100	QPSK	1	271	23.88	23.68	23.49	
100	QPSK	135	0	23.28	22.59	22.36	24.5
100	QPSK	135	69	23.83	23.55	23.49	25.5
100	QPSK	135	138	23.35	22.62	22.51	24.5
100	QPSK	270	0	23.35	22.64	22.56	
100	16QAM	1	1	22.54	22.91	22.72	24.5
100	64QAM	1	1	21.32	21.25	21.06	23.0
100	256QAM	1	1	19.55	19.18	18.99	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.02	23.80	25.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.12	24.03	23.83	25.5



n77_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)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.72	24.64	24.43	26.0
100	PI/2 BPSK	1	137	24.80	24.53	24.49	
100	PI/2 BPSK	1	271	24.84	24.59	24.40	
100	PI/2 BPSK	135	0	24.23	24.03	23.92	25.5
100	PI/2 BPSK	135	69	24.77	24.48	24.30	26.0
100	PI/2 BPSK	135	138	24.28	24.07	24.05	25.5
100	PI/2 BPSK	270	0	24.23	23.97	23.93	
100	QPSK	1	1	24.67	24.47	24.30	
100	QPSK	1	137	24.75	24.51	24.37	26.0
100	QPSK	1	271	24.77	24.56	24.40	
100	QPSK	135	0	23.75	23.48	23.46	
100	QPSK	135	69	24.74	24.50	24.43	26.0
100	QPSK	135	138	23.79	23.51	23.36	25.0
100	QPSK	270	0	23.79	23.45	23.38	
100	16QAM	1	1	23.89	23.70	23.67	
100	64QAM	1	1	22.32	22.16	22.03	23.5
100	256QAM	1	1	20.27	20.06	19.90	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.72	24.63	24.42	26.0
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.70	24.60	24.41	26.0



n78_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.54		25.5
100	PI/2 BPSK	1	137		23.50		
100	PI/2 BPSK	1	271		23.51		
100	PI/2 BPSK	135	0		23.07		25.0
100	PI/2 BPSK	135	69		23.50		25.5
100	PI/2 BPSK	135	138		23.14		25.0
100	PI/2 BPSK	270	0		23.08		
100	QPSK	1	1		23.50		
100	QPSK	1	137		23.51		25.5
100	QPSK	1	271		23.50		
100	QPSK	135	0		22.56		
100	QPSK	135	69		23.54		25.5
100	QPSK	135	138		22.62		24.5
100	QPSK	270	0		22.56		
100	16QAM	1	1		22.39		
100	64QAM	1	1		21.13		23.0
100	256QAM	1	1		19.34		21.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.42	23.50	23.49	25.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.59	23.63	23.57	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.63	23.60	23.57	25.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.62	23.62	23.63	25.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.55	23.63	23.59	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.44	23.59	23.50	25.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.53	23.50	23.49	25.5



n78_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)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		24.91		26.0
100	PI/2 BPSK	1	137		24.90		
100	PI/2 BPSK	1	271		24.96		
100	PI/2 BPSK	135	0		24.37		25.5
100	PI/2 BPSK	135	69		24.87		26.0
100	PI/2 BPSK	135	138		24.40		25.5
100	PI/2 BPSK	270	0		24.40		
100	QPSK	1	1		24.93		
100	QPSK	1	137		24.90		26.0
100	QPSK	1	271		24.89		
100	QPSK	135	0		23.89		
100	QPSK	135	69		24.87		26.0
100	QPSK	135	138		23.93		25.0
100	QPSK	270	0		23.86		
100	16QAM	1	1		23.64		
100	64QAM	1	1		22.47		23.5
100	256QAM	1	1		20.68		21.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	24.90	24.91	24.89	26.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	24.88	24.88	24.90	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.86	24.86	24.82	26.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	24.90	24.90	24.86	26.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	24.81	24.90	24.85	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.86	24.86	24.79	26.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	24.83	24.91	24.87	26.0



n41_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.64	24.69	24.59	25.7
100	PI/2 BPSK	1	137	24.76	24.70	24.66	
100	PI/2 BPSK	1	271	24.67	24.61	24.56	
100	PI/2 BPSK	135	0	24.15	24.16	24.00	25.2
100	PI/2 BPSK	135	69	24.65	24.63	24.58	25.7
100	PI/2 BPSK	135	138	24.25	24.10	24.02	25.2
100	PI/2 BPSK	270	0	24.20	24.12	24.09	
100	QPSK	1	1	24.72	24.63	24.64	25.7
100	QPSK	1	137	24.76	24.56	24.64	
100	QPSK	1	271	24.67	24.59	24.57	
100	QPSK	135	0	23.67	23.66	23.49	25.7
100	QPSK	135	69	24.63	24.54	24.57	
100	QPSK	135	138	23.65	23.51	23.55	
100	QPSK	270	0	23.69	23.62	23.55	24.7
100	16QAM	1	1	23.79	23.88	23.74	24.7
100	64QAM	1	1	22.29	22.36	22.28	23.2
100	256QAM	1	1	20.38	20.39	20.28	21.2
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.60	24.53	24.49	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.64	24.61	24.59	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.58	24.59	24.60	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.60	24.64	24.52	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.61	24.55	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.54	24.51	24.55	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.39	24.51	24.44	25.7



n41_HPUE PC2_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.85	25.38	25.24	25.9
100	PI/2 BPSK	1	137	25.37	25.31	25.17	
100	PI/2 BPSK	1	271	25.37	25.21	25.07	
100	PI/2 BPSK	135	0	25.09	25.23	25.12	25.9
100	PI/2 BPSK	135	69	25.32	25.45	25.06	25.9
100	PI/2 BPSK	135	138	25.30	25.18	25.11	25.9
100	PI/2 BPSK	270	0	25.27	25.40	25.17	
100	QPSK	1	1	24.85	25.32	25.26	
100	QPSK	1	137	25.37	25.29	25.13	25.9
100	QPSK	1	271	25.35	25.20	25.08	
100	QPSK	135	0	25.09	25.20	25.13	
100	QPSK	135	69	25.33	25.22	25.10	25.9
100	QPSK	135	138	25.31	25.17	25.08	25.9
100	QPSK	270	0	25.22	25.29	25.11	
100	16QAM	1	1	24.82	25.46	24.80	
100	64QAM	1	1	23.33	24.46	23.08	25.0
100	256QAM	1	1	21.57	22.65	21.94	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.71	25.25	25.17	25.9
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.79	25.34	25.23	25.9
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.84	25.37	25.14	25.9
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.83	25.37	25.20	25.9
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.79	25.28	25.18	25.9
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.77	25.28	25.15	25.9
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.76	25.28	25.17	25.9



n41 PC3_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.77	25.03	23.51	25.7
100	PI/2 BPSK	1	137	25.17	24.13	25.19	
100	PI/2 BPSK	1	271	23.71	24.34	22.70	
100	PI/2 BPSK	135	0	24.09	24.66	24.02	25.2
100	PI/2 BPSK	135	69	25.01	24.67	24.99	25.7
100	PI/2 BPSK	135	138	24.10	23.86	24.04	25.2
100	PI/2 BPSK	270	0	24.14	24.48	24.22	
100	QPSK	1	1	23.70	25.02	23.52	25.7
100	QPSK	1	137	25.01	24.10	25.15	
100	QPSK	1	271	23.73	24.26	23.70	
100	QPSK	135	0	23.59	24.20	23.44	25.7
100	QPSK	135	69	25.02	24.76	24.90	25.7
100	QPSK	135	138	23.57	23.51	24.00	25.7
100	QPSK	270	0	23.89	24.11	24.13	
100	16QAM	1	1	22.77	23.91	22.71	25.7
100	64QAM	1	1	21.23	22.21	21.20	24.8
100	256QAM	1	1	19.32	20.58	19.21	22.8
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.87	24.99	24.88	25.7
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.84	25.01	24.94	25.7
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.74	24.77	24.70	25.7
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.74	24.78	24.73	25.7
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.03	24.01	24.07	25.7
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.03	24.00	23.99	25.7
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.11	24.16	24.10	25.7



n77_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.50	24.23	24.30	25.7
100	PI/2 BPSK	1	137	24.57	24.32	24.52	
100	PI/2 BPSK	1	271	24.57	24.47	24.58	
100	PI/2 BPSK	135	0	23.97	23.74	23.90	25.2
100	PI/2 BPSK	135	69	24.52	24.25	24.37	25.7
100	PI/2 BPSK	135	138	24.00	23.82	24.00	25.2
100	PI/2 BPSK	270	0	23.99	23.82	23.92	
100	QPSK	1	1	24.40	24.32	24.42	25.7
100	QPSK	1	137	24.45	24.27	24.43	
100	QPSK	1	271	24.52	24.41	24.52	
100	QPSK	135	0	23.49	23.23	23.38	24.7
100	QPSK	135	69	24.50	24.31	24.44	25.7
100	QPSK	135	138	23.53	23.28	23.38	24.7
100	QPSK	270	0	23.48	23.26	23.36	
100	16QAM	1	1	23.65	23.39	23.58	24.7
100	64QAM	1	1	22.05	21.95	22.14	23.2
100	256QAM	1	1	20.01	19.82	20.01	21.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.46	24.22	24.26	25.7
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.49	24.20	24.26	25.7



n77_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)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.24	25.10	25.03	26.5
100	PI/2 BPSK	1	137	25.34	25.16	25.08	
100	PI/2 BPSK	1	271	25.47	25.26	25.21	
100	PI/2 BPSK	135	0	24.74	24.58	24.48	26.0
100	PI/2 BPSK	135	69	25.30	25.11	25.03	26.5
100	PI/2 BPSK	135	138	24.80	24.64	24.60	26.0
100	PI/2 BPSK	270	0	24.76	24.56	24.51	
100	QPSK	1	1	25.29	25.08	25.00	26.5
100	QPSK	1	137	25.38	25.14	25.10	
100	QPSK	1	271	25.45	25.22	25.19	
100	QPSK	135	0	24.69	24.52	24.50	25.5
100	QPSK	135	69	25.25	25.05	24.98	26.5
100	QPSK	135	138	24.41	24.20	24.18	25.5
100	QPSK	270	0	24.27	24.08	24.04	
100	16QAM	1	1	24.49	24.29	24.27	25.5
100	64QAM	1	1	22.95	22.70	22.63	24.0
100	256QAM	1	1	20.84	20.65	20.55	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.22	25.08	25.01	26.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	25.23	25.07	25.02	26.5



n78_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.98		25.0
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		24.00		
100	PI/2 BPSK	135	0		23.42		24.5
100	PI/2 BPSK	135	69		23.92		25.0
100	PI/2 BPSK	135	138		23.42		24.5
100	PI/2 BPSK	270	0		23.46		
100	QPSK	1	1		23.91		25.0
100	QPSK	1	137		23.91		
100	QPSK	1	271		23.95		
100	QPSK	135	0		22.84		24.0
100	QPSK	135	69		23.93		25.0
100	QPSK	135	138		22.92		24.0
100	QPSK	270	0		22.91		
100	16QAM	1	1		22.64		24.0
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.55		20.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.90	23.92	23.77	25.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.93	23.96	23.70	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.92	23.91	23.83	25.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.86	23.79	23.82	25.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.86	23.90	23.81	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.88	23.89	23.67	25.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.87	23.95	23.89	25.0



n78_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)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		25.42		26.5
100	PI/2 BPSK	1	137		25.45		
100	PI/2 BPSK	1	271		25.49		
100	PI/2 BPSK	135	0		24.90		26.0
100	PI/2 BPSK	135	69		25.42		26.5
100	PI/2 BPSK	135	138		24.93		26.0
100	PI/2 BPSK	270	0		24.92		
100	QPSK	1	1		25.44		26.5
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.43		
100	QPSK	135	0		24.35		25.5
100	QPSK	135	69		25.35		26.5
100	QPSK	135	138		24.45		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.19		25.5
100	64QAM	1	1		22.95		24.0
100	256QAM	1	1		21.18		22.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	25.38	25.40	25.36	26.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	25.44	25.38	25.41	26.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.37	25.43	25.41	26.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	25.42	25.39	25.26	26.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	25.43	25.44	25.47	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.33	25.38	25.36	26.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	25.32	25.32	25.46	26.5



n41_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)
Channel				509202	518598	528000	25.5
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.76	24.70	24.68	
100	PI/2 BPSK	1	137	24.71	24.68	24.68	
100	PI/2 BPSK	1	271	24.64	24.80	24.78	
100	PI/2 BPSK	135	0	24.74	24.58	24.55	
100	PI/2 BPSK	135	69	24.71	24.60	24.54	
100	PI/2 BPSK	135	138	24.63	24.60	24.55	
100	PI/2 BPSK	270	0	24.70	24.64	24.61	
100	QPSK	1	1	24.76	24.67	24.58	
100	QPSK	1	137	24.71	24.66	24.57	
100	QPSK	1	271	24.64	24.67	24.59	
100	QPSK	135	0	24.76	24.59	24.58	
100	QPSK	135	69	24.70	24.55	24.50	
100	QPSK	135	138	24.64	24.57	24.57	
100	QPSK	270	0	24.71	24.66	24.60	
100	16QAM	1	1	24.65	24.59	24.58	
100	64QAM	1	1	24.48	24.49	24.45	
100	256QAM	1	1	22.36	22.33	22.23	
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.66	24.61	24.46	25.5
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.66	24.61	24.53	25.5
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.72	24.69	24.60	25.5
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.63	24.60	24.44	25.5
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.68	24.69	24.61	25.5
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.56	24.54	24.36	25.5
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.69	24.60	24.63	25.5



n77_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.84	23.76	23.53	25.5
100	PI/2 BPSK	1	137	23.94	23.65	23.60	
100	PI/2 BPSK	1	271	23.91	23.72	23.50	
100	PI/2 BPSK	135	0	23.30	23.09	23.00	25.0
100	PI/2 BPSK	135	69	23.85	23.55	23.56	25.5
100	PI/2 BPSK	135	138	23.38	23.16	23.01	25.0
100	PI/2 BPSK	270	0	23.37	23.07	23.04	
100	QPSK	1	1	23.79	23.57	23.36	25.5
100	QPSK	1	137	23.89	23.56	23.32	
100	QPSK	1	271	23.88	23.68	23.49	
100	QPSK	135	0	23.28	22.59	22.36	24.5
100	QPSK	135	69	23.83	23.55	23.49	25.5
100	QPSK	135	138	23.35	22.62	22.51	24.5
100	QPSK	270	0	23.35	22.64	22.56	
100	16QAM	1	1	22.54	22.91	22.72	24.5
100	64QAM	1	1	21.32	21.25	21.06	23.0
100	256QAM	1	1	19.55	19.18	18.99	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.02	23.80	25.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.12	24.03	23.83	25.5



n77_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)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.72	24.64	24.43	26.0
100	PI/2 BPSK	1	137	24.80	24.53	24.49	
100	PI/2 BPSK	1	271	24.84	24.59	24.40	
100	PI/2 BPSK	135	0	24.23	24.03	23.92	25.5
100	PI/2 BPSK	135	69	24.77	24.48	24.30	26.0
100	PI/2 BPSK	135	138	24.28	24.07	24.05	25.5
100	PI/2 BPSK	270	0	24.23	23.97	23.93	
100	QPSK	1	1	24.67	24.47	24.30	
100	QPSK	1	137	24.75	24.51	24.37	26.0
100	QPSK	1	271	24.77	24.56	24.40	
100	QPSK	135	0	23.75	23.48	23.46	
100	QPSK	135	69	24.74	24.50	24.43	26.0
100	QPSK	135	138	23.79	23.51	23.36	25.0
100	QPSK	270	0	23.79	23.45	23.38	
100	16QAM	1	1	23.89	23.70	23.67	
100	64QAM	1	1	22.32	22.16	22.03	23.5
100	256QAM	1	1	20.27	20.06	19.90	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.72	24.63	24.42	26.0
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.70	24.60	24.41	26.0



n78_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.54		25.5
100	PI/2 BPSK	1	137		23.50		
100	PI/2 BPSK	1	271		23.51		
100	PI/2 BPSK	135	0		23.07		25.0
100	PI/2 BPSK	135	69		23.50		25.5
100	PI/2 BPSK	135	138		23.14		25.0
100	PI/2 BPSK	270	0		23.08		
100	QPSK	1	1		23.50		
100	QPSK	1	137		23.51		25.5
100	QPSK	1	271		23.50		
100	QPSK	135	0		22.56		
100	QPSK	135	69		23.54		25.5
100	QPSK	135	138		22.62		24.5
100	QPSK	270	0		22.56		
100	16QAM	1	1		22.39		
100	64QAM	1	1		21.13		23.0
100	256QAM	1	1		19.34		21.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.42	23.50	23.49	25.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.59	23.63	23.57	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.63	23.60	23.57	25.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.62	23.62	23.63	25.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.55	23.63	23.59	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.44	23.59	23.50	25.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.53	23.50	23.49	25.5



n78_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)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		24.91		26.0
100	PI/2 BPSK	1	137		24.90		
100	PI/2 BPSK	1	271		24.96		
100	PI/2 BPSK	135	0		24.37		25.5
100	PI/2 BPSK	135	69		24.87		26.0
100	PI/2 BPSK	135	138		24.40		25.5
100	PI/2 BPSK	270	0		24.40		
100	QPSK	1	1		24.93		26.0
100	QPSK	1	137		24.90		
100	QPSK	1	271		24.89		
100	QPSK	135	0		23.89		25.0
100	QPSK	135	69		24.87		26.0
100	QPSK	135	138		23.93		25.0
100	QPSK	270	0		23.86		
100	16QAM	1	1		23.64		25.0
100	64QAM	1	1		22.47		23.5
100	256QAM	1	1		20.68		21.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	24.90	24.91	24.89	26.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	24.88	24.88	24.90	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.86	24.86	24.82	26.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	24.90	24.90	24.86	26.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	24.81	24.90	24.85	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.86	24.86	24.79	26.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	24.83	24.91	24.87	26.0



n41_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.64	24.69	24.59	25.7
100	PI/2 BPSK	1	137	24.76	24.70	24.66	
100	PI/2 BPSK	1	271	24.67	24.61	24.56	
100	PI/2 BPSK	135	0	24.15	24.16	24.00	25.2
100	PI/2 BPSK	135	69	24.65	24.63	24.58	25.7
100	PI/2 BPSK	135	138	24.25	24.10	24.02	25.2
100	PI/2 BPSK	270	0	24.20	24.12	24.09	
100	QPSK	1	1	24.72	24.63	24.64	25.7
100	QPSK	1	137	24.76	24.56	24.64	
100	QPSK	1	271	24.67	24.59	24.57	
100	QPSK	135	0	23.67	23.66	23.49	25.7
100	QPSK	135	69	24.63	24.54	24.57	
100	QPSK	135	138	23.65	23.51	23.55	
100	QPSK	270	0	23.69	23.62	23.55	24.7
100	16QAM	1	1	23.79	23.88	23.74	24.7
100	64QAM	1	1	22.29	22.36	22.28	23.2
100	256QAM	1	1	20.38	20.39	20.28	21.2
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.60	24.53	24.49	25.7
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.64	24.61	24.59	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.58	24.59	24.60	25.7
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.60	24.64	24.52	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.60	24.61	24.55	25.7
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.54	24.51	24.55	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.39	24.51	24.44	25.7



n41_HPUE PC2_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.85	25.38	25.24	26.8
100	PI/2 BPSK	1	137	25.37	25.31	25.17	
100	PI/2 BPSK	1	271	25.37	25.21	25.07	
100	PI/2 BPSK	135	0	25.09	25.23	25.12	26.8
100	PI/2 BPSK	135	69	25.32	25.45	25.06	26.8
100	PI/2 BPSK	135	138	25.30	25.18	25.11	26.8
100	PI/2 BPSK	270	0	25.27	25.40	25.17	
100	QPSK	1	1	24.85	25.32	25.26	
100	QPSK	1	137	25.37	25.29	25.13	26.8
100	QPSK	1	271	25.35	25.20	25.08	
100	QPSK	135	0	25.09	25.20	25.13	
100	QPSK	135	69	25.33	25.22	25.10	26.8
100	QPSK	135	138	25.31	25.17	25.08	26.5
100	QPSK	270	0	25.22	25.29	25.11	
100	16QAM	1	1	24.82	25.46	24.80	
100	64QAM	1	1	23.33	24.46	23.08	25.0
100	256QAM	1	1	21.57	22.65	21.94	23.0
Channel				508200	518598	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.71	25.25	25.17	26.8
Channel				507204	518598	529998	Tune-up limit (dBm)
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.79	25.34	25.23	26.8
Channel				505200	518598	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.84	25.37	25.14	26.8
Channel				504204	518598	532998	Tune-up limit (dBm)
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.83	25.37	25.20	26.8
Channel				503202	518598	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.79	25.28	25.18	26.8
Channel				502200	518598	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.77	25.28	25.15	26.8
Channel				501204	518598	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.76	25.28	25.17	26.8



n41 PC3_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)
Channel				509202	518598	528000	25.7
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	23.77	25.03	23.51	25.7
100	PI/2 BPSK	1	137	25.17	24.13	25.19	
100	PI/2 BPSK	1	271	23.71	24.34	22.70	25.2
100	PI/2 BPSK	135	0	24.09	24.66	24.02	
100	PI/2 BPSK	135	69	25.01	24.67	24.99	25.2
100	PI/2 BPSK	135	138	24.10	23.86	24.04	
100	PI/2 BPSK	270	0	24.14	24.48	24.22	25.7
100	QPSK	1	1	23.70	25.02	23.52	
100	QPSK	1	137	25.01	24.10	25.15	25.4
100	QPSK	1	271	23.73	24.26	23.70	
100	QPSK	135	0	23.59	24.20	23.44	25.7
100	QPSK	135	69	25.02	24.76	24.90	
100	QPSK	135	138	23.57	23.51	24.00	25.4
100	QPSK	270	0	23.89	24.11	24.13	
100	16QAM	1	1	22.77	23.91	22.71	23.9
100	64QAM	1	1	21.23	22.21	21.20	
100	256QAM	1	1	19.32	20.58	19.21	21.9
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	25.7
90	PI/2 BPSK	1	1	24.87	24.99	24.88	
Channel				507204	518598	529998	25.7
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.84	25.01	24.94	25.7
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	25.7
60	PI/2 BPSK	1	1	24.74	24.77	24.70	
Channel				504204	518598	532998	25.7
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.74	24.78	24.73	25.7
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	25.7
40	PI/2 BPSK	1	1	24.03	24.01	24.07	
Channel				502200	518598	534996	25.7
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.03	24.00	23.99	25.7
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	25.7
20	PI/2 BPSK	1	1	24.11	24.16	24.10	



n77_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.50	24.23	24.30	25.7
100	PI/2 BPSK	1	137	24.57	24.32	24.52	
100	PI/2 BPSK	1	271	24.57	24.47	24.58	
100	PI/2 BPSK	135	0	23.97	23.74	23.90	25.2
100	PI/2 BPSK	135	69	24.52	24.25	24.37	25.7
100	PI/2 BPSK	135	138	24.00	23.82	24.00	25.2
100	PI/2 BPSK	270	0	23.99	23.82	23.92	
100	QPSK	1	1	24.40	24.32	24.42	25.7
100	QPSK	1	137	24.45	24.27	24.43	
100	QPSK	1	271	24.52	24.41	24.52	
100	QPSK	135	0	23.49	23.23	23.38	24.7
100	QPSK	135	69	24.50	24.31	24.44	25.7
100	QPSK	135	138	23.53	23.28	23.38	24.7
100	QPSK	270	0	23.48	23.26	23.36	
100	16QAM	1	1	23.65	23.39	23.58	24.7
100	64QAM	1	1	22.05	21.95	22.14	23.2
100	256QAM	1	1	20.01	19.82	20.01	21.2
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.46	24.22	24.26	25.7
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.49	24.20	24.26	25.7



n77_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)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	25.24	25.10	25.03	26.5
100	PI/2 BPSK	1	137	25.34	25.16	25.08	
100	PI/2 BPSK	1	271	25.47	25.26	25.21	
100	PI/2 BPSK	135	0	24.74	24.58	24.48	26.0
100	PI/2 BPSK	135	69	25.30	25.11	25.03	26.5
100	PI/2 BPSK	135	138	24.80	24.64	24.60	26.0
100	PI/2 BPSK	270	0	24.76	24.56	24.51	
100	QPSK	1	1	25.29	25.08	25.00	26.5
100	QPSK	1	137	25.38	25.14	25.10	
100	QPSK	1	271	25.45	25.22	25.19	
100	QPSK	135	0	24.69	24.52	24.50	25.5
100	QPSK	135	69	25.25	25.05	24.98	26.5
100	QPSK	135	138	24.41	24.20	24.18	25.5
100	QPSK	270	0	24.27	24.08	24.04	
100	16QAM	1	1	24.49	24.29	24.27	25.5
100	64QAM	1	1	22.95	22.70	22.63	24.0
100	256QAM	1	1	20.84	20.65	20.55	22.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	25.22	25.08	25.01	26.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	25.23	25.07	25.02	26.5



n78_Ant 7							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.98		25.0
100	PI/2 BPSK	1	137		23.98		
100	PI/2 BPSK	1	271		24.00		
100	PI/2 BPSK	135	0		23.42		24.5
100	PI/2 BPSK	135	69		23.92		25.0
100	PI/2 BPSK	135	138		23.42		24.5
100	PI/2 BPSK	270	0		23.46		
100	QPSK	1	1		23.91		25.0
100	QPSK	1	137		23.91		
100	QPSK	1	271		23.95		
100	QPSK	135	0		22.84		24.0
100	QPSK	135	69		23.93		25.0
100	QPSK	135	138		22.92		24.0
100	QPSK	270	0		22.91		
100	16QAM	1	1		22.64		24.0
100	64QAM	1	1		21.23		22.5
100	256QAM	1	1		19.55		20.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.90	23.92	23.77	25.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.93	23.96	23.70	25.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.92	23.91	23.83	25.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.86	23.79	23.82	25.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.86	23.90	23.81	25.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.88	23.89	23.67	25.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.87	23.95	23.89	25.0



n78_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)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		25.42		26.5
100	PI/2 BPSK	1	137		25.45		
100	PI/2 BPSK	1	271		25.49		
100	PI/2 BPSK	135	0		24.90		26.0
100	PI/2 BPSK	135	69		25.42		26.5
100	PI/2 BPSK	135	138		24.93		26.0
100	PI/2 BPSK	270	0		24.92		
100	QPSK	1	1		25.44		26.5
100	QPSK	1	137		25.37		
100	QPSK	1	271		25.43		
100	QPSK	135	0		24.35		25.5
100	QPSK	135	69		25.35		26.5
100	QPSK	135	138		24.45		25.5
100	QPSK	270	0		24.41		
100	16QAM	1	1		24.19		25.5
100	64QAM	1	1		22.95		24.0
100	256QAM	1	1		21.18		22.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	25.38	25.40	25.36	26.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	25.44	25.38	25.41	26.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	25.37	25.43	25.41	26.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	25.42	25.39	25.26	26.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	25.43	25.44	25.47	26.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	25.33	25.38	25.36	26.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	25.32	25.32	25.46	26.5



n41_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)
Channel				509202	518598	528000	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.76	24.70	24.68	25.5
100	PI/2 BPSK	1	137	24.71	24.68	24.68	
100	PI/2 BPSK	1	271	24.64	24.80	24.78	
100	PI/2 BPSK	135	0	24.74	24.58	24.55	25.0
100	PI/2 BPSK	135	69	24.71	24.60	24.54	25.5
100	PI/2 BPSK	135	138	24.63	24.60	24.55	25.0
100	PI/2 BPSK	270	0	24.70	24.64	24.61	
100	QPSK	1	1	24.76	24.67	24.58	
100	QPSK	1	137	24.71	24.66	24.57	25.5
100	QPSK	1	271	24.64	24.67	24.59	
100	QPSK	135	0	24.76	24.59	24.58	
100	QPSK	135	69	24.70	24.55	24.50	25.5
100	QPSK	135	138	24.64	24.57	24.57	25.5
100	QPSK	270	0	24.71	24.66	24.60	
100	16QAM	1	1	24.65	24.59	24.58	
100	64QAM	1	1	24.48	24.49	24.45	25.5
100	256QAM	1	1	22.36	22.33	22.23	22.5
Channel				508200	518598	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.66	24.61	24.46	25.5
Channel				507204	518598	529998	
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.66	24.61	24.53	25.5
Channel				505200	518598	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.72	24.69	24.60	25.5
Channel				504204	518598	532998	
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.63	24.60	24.44	25.5
Channel				503202	518598	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.68	24.69	24.61	25.5
Channel				502200	518598	534996	
Frequency (MHz)				2511	2592.99	2674.98	
30	PI/2 BPSK	1	1	24.56	24.54	24.36	25.5
Channel				501204	518598	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.69	24.60	24.63	25.5



n77_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	23.84	23.76	23.53	25.5
100	PI/2 BPSK	1	137	23.94	23.65	23.60	
100	PI/2 BPSK	1	271	23.91	23.72	23.50	
100	PI/2 BPSK	135	0	23.30	23.09	23.00	25.0
100	PI/2 BPSK	135	69	23.85	23.55	23.56	25.5
100	PI/2 BPSK	135	138	23.38	23.16	23.01	25.0
100	PI/2 BPSK	270	0	23.37	23.07	23.04	
100	QPSK	1	1	23.79	23.57	23.36	25.5
100	QPSK	1	137	23.89	23.56	23.32	
100	QPSK	1	271	23.88	23.68	23.49	
100	QPSK	135	0	23.28	22.59	22.36	24.5
100	QPSK	135	69	23.83	23.55	23.49	25.5
100	QPSK	135	138	23.35	22.62	22.51	24.5
100	QPSK	270	0	23.35	22.64	22.56	
100	16QAM	1	1	22.54	22.91	22.72	24.5
100	64QAM	1	1	21.32	21.25	21.06	23.0
100	256QAM	1	1	19.55	19.18	18.99	21.0
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.13	24.02	23.80	25.5
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.12	24.03	23.83	25.5



n77_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)
Channel				650000	656000	662000	
Frequency (MHz)				3750	3840	3930	
100	PI/2 BPSK	1	1	24.72	24.64	24.43	26.0
100	PI/2 BPSK	1	137	24.80	24.53	24.49	
100	PI/2 BPSK	1	271	24.84	24.59	24.40	
100	PI/2 BPSK	135	0	24.23	24.03	23.92	25.5
100	PI/2 BPSK	135	69	24.77	24.48	24.30	26.0
100	PI/2 BPSK	135	138	24.28	24.07	24.05	25.5
100	PI/2 BPSK	270	0	24.23	23.97	23.93	
100	QPSK	1	1	24.67	24.47	24.30	
100	QPSK	1	137	24.75	24.51	24.37	26.0
100	QPSK	1	271	24.77	24.56	24.40	
100	QPSK	135	0	23.75	23.48	23.46	
100	QPSK	135	69	24.74	24.50	24.43	26.0
100	QPSK	135	138	23.79	23.51	23.36	25.0
100	QPSK	270	0	23.79	23.45	23.38	
100	16QAM	1	1	23.89	23.70	23.67	
100	64QAM	1	1	22.32	22.16	22.03	23.5
100	256QAM	1	1	20.27	20.06	19.90	21.5
Channel				648000	656000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3840	3960	
40	PI/2 BPSK	1	1	24.72	24.63	24.42	26.0
Channel				647334	656000	664668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3840	3970.02	
20	PI/2 BPSK	1	1	24.70	24.60	24.41	26.0



n78_Ant 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		23.54		25.5
100	PI/2 BPSK	1	137		23.50		
100	PI/2 BPSK	1	271		23.51		
100	PI/2 BPSK	135	0		23.07		25.0
100	PI/2 BPSK	135	69		23.50		25.5
100	PI/2 BPSK	135	138		23.14		25.0
100	PI/2 BPSK	270	0		23.08		
100	QPSK	1	1		23.50		
100	QPSK	1	137		23.51		25.5
100	QPSK	1	271		23.50		
100	QPSK	135	0		22.56		
100	QPSK	135	69		23.54		25.5
100	QPSK	135	138		22.62		24.5
100	QPSK	270	0		22.56		
100	16QAM	1	1		22.39		
100	64QAM	1	1		21.13		23.0
100	256QAM	1	1		19.34		21.0
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	23.42	23.50	23.49	25.5
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	23.59	23.63	23.57	25.5
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	23.63	23.60	23.57	25.5
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	23.62	23.62	23.63	25.5
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	23.55	23.63	23.59	25.5
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	23.44	23.59	23.50	25.5
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	23.53	23.50	23.49	25.5



n78_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)
Channel				650000	650000	650000	
Frequency (MHz)				3750	3750	3750	
100	PI/2 BPSK	1	1		24.91		26.0
100	PI/2 BPSK	1	137		24.90		
100	PI/2 BPSK	1	271		24.96		
100	PI/2 BPSK	135	0		24.37		25.5
100	PI/2 BPSK	135	69		24.87		26.0
100	PI/2 BPSK	135	138		24.40		25.5
100	PI/2 BPSK	270	0		24.40		
100	QPSK	1	1		24.93		26.0
100	QPSK	1	137		24.90		
100	QPSK	1	271		24.89		
100	QPSK	135	0		23.89		25.0
100	QPSK	135	69		24.87		26.0
100	QPSK	135	138		23.93		25.0
100	QPSK	270	0		23.86		
100	16QAM	1	1		23.64		25.0
100	64QAM	1	1		22.47		23.5
100	256QAM	1	1		20.68		21.5
Channel				649668	650000	650334	Tune-up limit (dBm)
Frequency (MHz)				3745.02	3750	3755.01	
90	PI/2 BPSK	1	1	24.90	24.91	24.89	26.0
Channel				649334	650000	650668	Tune-up limit (dBm)
Frequency (MHz)				3740.01	3750	3760.02	
80	PI/2 BPSK	1	1	24.88	24.88	24.90	26.0
Channel				649000	650000	651000	Tune-up limit (dBm)
Frequency (MHz)				3735	3750	3765	
70	PI/2 BPSK	1	1	24.86	24.86	24.82	26.0
Channel				648668	650000	651334	Tune-up limit (dBm)
Frequency (MHz)				3730.02	3750	3770.01	
60	PI/2 BPSK	1	1	24.90	24.90	24.86	26.0
Channel				648334	650000	651668	Tune-up limit (dBm)
Frequency (MHz)				3725.01	3750	3775.02	
50	PI/2 BPSK	1	1	24.81	24.90	24.85	26.0
Channel				648000	650000	652000	Tune-up limit (dBm)
Frequency (MHz)				3720	3750	3780	
40	PI/2 BPSK	1	1	24.86	24.86	24.79	26.0
Channel				647334	650000	652668	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3750	3790.02	
20	PI/2 BPSK	1	1	24.83	24.91	24.87	26.0



2.4GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
																		802.11b 1Mbps	1
	6	2437	19.50	20.00	100	19.60	20.00	100	19.90	20.00	19.40	20.00	22.67	23.0					
	11	2462	19.50	20.00		19.60	20.00		19.70	20.00	19.50	20.00	22.61	23.0					
802.11g 6Mbps	1	2412		17.50			17.50			17.50		17.50		20.5					
	6	2437		20.00			20.00			20.00		20.00		23.0					
	11	2462		18.00			18.00			18.00		18.00		21.0					
	1	2412		17.50			17.50			17.50		17.50		20.5					
802.11n-HT20 MCS0	6	2437	Not required	19.50	Not required	Not required	19.50	Not required	Not required	19.50	Not required	19.50	Not required	22.5	Not required			Not required	
	11	2462		16.00			16.00			16.00		16.00		19.0					
802.11ac-VHT20 MCS0	1	2412		17.50			17.50			17.50		17.50		20.5					
	6	2437		19.50			19.50			19.50		19.50		22.5					
	11	2462		16.00			16.00			16.00		16.00		19.0					

5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
																		802.11a 6Mbps	36
	40	5200		17.50			17.50			17.50		17.50		20.5					
	44	5220		17.50			17.50			17.50		17.50		20.5					
	48	5240		17.50			17.50			17.50		17.50		20.5					
802.11n-HT20 MCS0	36	5180		17.50			17.50			17.50		17.50		20.5					
	40	5200		17.50			17.50			17.50		17.50		20.5					
	44	5220		17.50			17.50			17.50		17.50		20.5					
	48	5240		17.50			17.50			17.50		17.50		20.5					
802.11n-HT40 MCS0	38	5190	Not required	17.00	Not required	Not required	17.00	Not required	Not required	17.00	Not required	17.00	Not required	20.0	Not required			Not required	
	46	5230		17.50			17.50			17.50		17.50		20.5					
	36	5180		17.50			17.50			17.50		17.50		20.5					
802.11ac-VHT20 MCS0	40	5200		17.50			17.50			17.50		17.50		20.5					
	44	5220		17.50			17.50			17.50		17.50		20.5					
	48	5240		17.50			17.50			17.50		17.50		20.5					
802.11ac-VHT40 MCS0	38	5190		17.00			17.00			17.00		17.00		20.0					
	46	5230		17.50			17.50			17.50		17.50		20.5					
802.11ac-VHT80 MCS0	42	5210		16.50			16.50			16.50		16.50		19.5					

5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
																		802.11a 6Mbps	52
	56	5280		17.50			17.50			17.50		17.50		20.5					
	60	5300		17.50			17.50			17.50		17.50		20.5					
	64	5320		17.50			17.50			17.50		17.50		20.5					
802.11n-HT20 MCS0	52	5260	Not required	17.50	Not required	Not required	17.50	Not required	Not required	17.50	Not required	17.50	Not required	20.5	Not required			Not required	
	56	5280		17.50			17.50			17.50		17.50		20.5					
	60	5300		17.50			17.50			17.50		17.50		20.5					
	64	5320		17.50			17.50			17.50		17.50		20.5					
802.11n-HT40 MCS0	54	5270	17.20	17.50	95.88	17.10	17.50	95.30	17.50	17.50	17.20	17.50	20.36	20.5				95.37	
	62	5310	16.70	17.00		16.10	17.00		16.80	17.00	16.30	17.00	19.57	20.0					
802.11ac-VHT20 MCS0	52	5260		17.50			17.50			17.50		17.50		20.5					
	56	5280		17.50			17.50			17.50		17.50		20.5					
	60	5300		17.50			17.50			17.50		17.50		20.5					
	64	5320	Not required	17.50	Not required	Not required	17.50	Not required	Not required	17.50	Not required	17.50	Not required	20.5	Not required			Not required	
802.11ac-VHT40 MCS0	54	5270		17.50			17.50			17.50		17.50		20.5					
	62	5310		17.00			17.00			17.00		17.00		20.0					
802.11ac-VHT80 MCS0	58	5290		16.00			16.00			16.00		16.00		19.0					



5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	100	5500	Not required	17.50	Not required	Not required	17.50	Not required	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5	Not required	20.5	Not required	20.5
	116	5580		17.50			17.50			17.50		17.50		17.50						
	124	5620		17.50			17.50			17.50		17.50		17.50						
	132	5660		17.50			17.50			17.50		17.50		17.50						
	144	5720		17.50			17.50			17.50		17.50		17.50						
802.11n-HT20 MCS0	100	5500	Not required	17.50	Not required	Not required	17.50	Not required	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5	Not required	20.5	Not required	20.5
	116	5580		17.50			17.50			17.50		17.50		17.50						
	124	5620		17.50			17.50			17.50		17.50		17.50						
	132	5660		17.50			17.50			17.50		17.50		17.50						
	144	5720		17.50			17.50			17.50		17.50		17.50						
802.11n-HT40 MCS0	102	5510	15.70	16.00	95.88	15.30	16.00	95.30	15.60	16.00	95.30	15.60	16.00	15.90	16.00	18.76	19.0	95.37	19.0	95.37
	110	5550	17.20	17.50		16.60	17.50		17.40	17.50		16.80	17.50	20.12	20.5					
	126	5630	17.10	17.50		16.40	17.50		17.40	17.50		16.80	17.50	20.12	20.5					
	134	5670	17.30	17.50		16.60	17.50		17.50	17.50		16.70	17.50	20.13	20.5					
	142	5710	16.90	17.50		16.90	17.50		17.50	17.50		16.70	17.50	20.13	20.5					
802.11ac-VHT20 MCS0	100	5500	Not required	17.50	Not required	Not required	17.50	Not required	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5	Not required	20.5	Not required	20.5
	116	5580		17.50			17.50			17.50		17.50		17.50						
	124	5620		17.50			17.50			17.50		17.50		17.50						
	132	5660		17.50			17.50			17.50		17.50		17.50						
	144	5720		17.50			17.50			17.50		17.50		17.50						
802.11ac-VHT40 MCS0	102	5510	Not required	16.00	Not required	Not required	16.00	Not required	Not required	16.00	Not required	16.00	Not required	16.00	Not required	19.0	Not required	19.0	Not required	19.0
	110	5550		17.50			17.50			17.50		17.50		17.50						
	126	5630		17.50			17.50			17.50		17.50		17.50						
	134	5670		17.50			17.50			17.50		17.50		17.50						
	142	5710		17.50			17.50			17.50		17.50		17.50						
802.11ac-VHT80 MCS0	106	5530	Not required	14.50	Not required	Not required	14.50	Not required	Not required	14.50	Not required	14.50	Not required	14.50	Not required	17.5	Not required	17.5	Not required	17.5
	122	5610		17.00			17.00			17.00		17.00		17.00						
	138	5690		17.00			17.00			17.00		17.00		17.00						

5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3			
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	149	5745	19.30	19.50	97.94	19.30	19.50	97.96	19.50	19.50	97.96	19.50	19.50	18.30	19.50	21.95	22.5	97.81	22.5	97.81
	157	5785	19.20	19.50		19.20	19.50		19.20	19.50		19.30	19.50	22.26	22.5					
	165	5825	19.20	19.50		19.00	19.50		19.20	19.50		19.00	19.50	22.11	22.5					
802.11n-HT20 MCS0	149	5745	Not required	19.50	Not required	Not required	19.50	Not required	Not required	19.50	Not required	19.50	Not required	19.50	Not required	22.5	Not required	22.5	Not required	22.5
	157	5785		19.50			19.50			19.50		19.50		19.50						
	165	5825		19.50			19.50			19.50		19.50		19.50						
802.11n-HT40 MCS0	151	5755	Not required	17.50	Not required	Not required	17.50	Not required	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5	Not required	20.5	Not required	20.5
	159	5795		17.50			17.50			17.50		17.50		17.50						
802.11ac-VHT20 MCS0	149	5745	Not required	19.50	Not required	Not required	19.50	Not required	Not required	19.50	Not required	19.50	Not required	19.50	Not required	22.5	Not required	22.5	Not required	22.5
	157	5785		19.50			19.50			19.50		19.50		19.50						
	165	5825		19.50			19.50			19.50		19.50		19.50						
802.11ac-VHT40 MCS0	151	5755	Not required	17.50	Not required	Not required	17.50	Not required	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5	Not required	20.5	Not required	20.5
	159	5795		17.50			17.50			17.50		17.50		17.50						
802.11ac-VHT80 MCS0	155	5775	Not required	17.00	Not required	17.00	Not required	17.00	Not required	17.00	Not required	17.00	Not required	17.00	Not required	20.0	Not required	20.0	Not required	20.0



2.4GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
																		802.11b 1Mbps	1
	6	2437	15.90	16.00	18.90	19.00	17.60	18.00	19.80	20.00	21.85	22.1							
	11	2462	15.90	16.00	18.90	19.00	17.60	18.00	19.80	20.00	21.85	22.1							
802.11g 6Mbps	1	2412	Not required	16.00	Not required	Not required	17.50	Not required	Not required	Not required	Not required	17.50	17.50	Not required	20.5	Not required			
	6	2437		16.00			19.00					18.00	20.00		22.1				
	11	2462		16.00			18.00					18.00	18.00		21.0				
802.11n-HT20 MCS0	1	2412		16.00			17.50					17.50	17.50		20.5				
	6	2437		16.00			19.00					18.00	19.50		21.8				
	11	2462		16.00			16.00					16.00	16.00		19.0				
802.11ac-VHT20 MCS0	1	2412	16.00	17.50	17.50	17.50	20.5												
	6	2437	16.00	19.00	18.00	19.50	21.8												
	11	2462	16.00	16.00	16.00	16.00	19.0												

5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
																		802.11a 6Mbps	36
	40	5200	15.50	17.00	15.50	17.50	19.6												
	44	5220	15.50	17.00	15.50	17.50	19.6												
	48	5240	15.50	17.00	15.50	17.50	19.6												
802.11n-HT20 MCS0	36	5180	15.50	17.00	15.50	17.50	19.6												
	40	5200	15.50	17.00	15.50	17.50	19.6												
	44	5220	15.50	17.00	15.50	17.50	19.6												
	48	5240	15.50	17.00	15.50	17.50	19.6												
802.11n-HT40 MCS0	38	5190	15.50	17.00	15.50	17.50	19.6												
	46	5230	15.50	17.00	15.50	17.50	19.6												
802.11ac-VHT20 MCS0	36	5180	15.50	17.00	15.50	17.50	19.6												
	40	5200	15.50	17.00	15.50	17.50	19.6												
	44	5220	15.50	17.00	15.50	17.50	19.6												
	48	5240	15.50	17.00	15.50	17.50	19.6												
802.11ac-VHT40 MCS0	38	5190	15.50	17.00	15.50	17.00	19.3												
	46	5230	15.50	17.00	15.50	17.50	19.6												
802.11ac-VHT80 MCS0	42	5210	15.50	16.50	15.50	16.50	19.0												

5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3					
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %					
																		802.11a 6Mbps	52	5260	Not required	15.50
	56	5280	15.50	17.00	15.50	17.50	19.6															
	60	5300	15.50	17.00	15.50	17.50	19.6															
	64	5320	15.50	17.00	15.50	17.50	19.6															
802.11n-HT20 MCS0	52	5260	15.50	17.00	15.50	17.50	19.6															
	56	5280	15.50	17.00	15.50	17.50	19.6															
	60	5300	15.50	17.00	15.50	17.50	19.6															
	64	5320	15.50	17.00	15.50	17.50	19.6															
802.11n-HT40 MCS0	54	5270	15.50	16.70	17.00	15.20	15.50	17.20	17.50	19.32	19.6	95.37										
	62	5310	15.50	16.10	17.00	15.20	15.50	16.90	17.00	19.14	19.3											
802.11ac-VHT20 MCS0	52	5260	15.50	17.00	15.50	17.50	19.6															
	56	5280	15.50	17.00	15.50	17.50	19.6															
	60	5300	15.50	17.00	15.50	17.50	19.6															
	64	5320	15.50	17.00	15.50	17.50	19.6															
802.11ac-VHT40 MCS0	54	5270	15.50	17.00	15.50	17.50	19.6															
	62	5310	15.50	17.00	15.50	17.00	19.3															
802.11ac-VHT80 MCS0	58	5290	15.50	15.50	92.11	16.00	15.50	16.00	16.00	18.8												



5GHz WLAN		Ant 4					Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3						
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %					
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not required	Not required	Not required	15.00	Not required	Not required	14.50	Not required	15.50	Not required	18.0	Not required					
		116	5580													14.50	15.00	14.50	15.50	18.0
		124	5620													14.50	15.00	14.50	15.50	18.0
		132	5660													14.50	15.00	14.50	15.50	18.0
		144	5720													14.50	15.00	14.50	15.50	18.0
	802.11n-HT20 MCS0	100	5500													14.50	15.00	14.50	15.50	18.0
		116	5580													14.50	15.00	14.50	15.50	18.0
		124	5620													14.50	15.00	14.50	15.50	18.0
		132	5660													14.50	15.00	14.50	15.50	18.0
		144	5720													14.50	15.00	14.50	15.50	18.0
	802.11n-HT40 MCS0	102	5510													14.50	15.00	14.50	15.50	18.0
		110	5550													14.50	15.00	14.50	15.50	18.0
		126	5630													14.50	15.00	14.50	15.50	18.0
		134	5670													14.50	15.00	14.50	15.50	18.0
	802.11ac-VHT20 MCS0	142	5710													14.50	15.00	14.50	15.50	18.0
		100	5500													14.50	15.00	14.50	15.50	18.0
		116	5580													14.50	15.00	14.50	15.50	18.0
		124	5620													14.50	15.00	14.50	15.50	18.0
	802.11ac-VHT40 MCS0	132	5660													14.50	15.00	14.50	15.50	18.0
		144	5720													14.50	15.00	14.50	15.50	18.0
102		5510	14.50	15.00	14.50	15.50	18.0													
110		5550	14.50	15.00	14.50	15.50	18.0													
802.11ac-VHT80 MCS0	126	5630	14.50	15.00	14.50	15.50	18.0													
	134	5670	14.50	15.00	14.50	15.50	18.0													
	142	5710	14.50	15.00	14.50	15.50	18.0													
	106	5530	14.00	14.50	14.10	14.50	14.30	14.50	14.40	14.50	17.36	17.5								
802.11ac-VHT80 MCS0	122	5610	14.20	14.50	14.50	15.00	92.62	14.40	14.50	15.40	15.50	17.94	18.0	91.78						
	138	5690	14.20	14.50	14.60	15.00	14.40	14.50	15.10	15.50	17.77	18.0	91.78							

5GHz WLAN		Ant 4					Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3													
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %												
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not required	Not required	Not required	15.00	Not required	Not required	14.50	Not required	17.00	Not required	18.9	Not required												
		157	5785													15.00	15.00	14.50	17.00	18.9							
		165	5825													15.00	15.00	14.50	17.00	18.9							
	802.11n-HT20 MCS0	149	5745													15.00	15.00	14.50	17.00	18.9							
		157	5785													15.00	15.00	14.50	17.00	18.9							
		165	5825													15.00	15.00	14.50	17.00	18.9							
	802.11n-HT40 MCS0	151	5755													15.00	15.00	14.50	17.00	18.9							
		159	5795													15.00	15.00	14.50	17.00	18.9							
	802.11ac-VHT20 MCS0	149	5745													15.00	15.00	14.50	17.00	18.9							
		157	5785													15.00	15.00	14.50	17.00	18.9							
		165	5825													15.00	15.00	14.50	17.00	18.9							
	802.11ac-VHT40 MCS0	151	5755													15.00	15.00	14.50	17.00	18.9							
		159	5795													15.00	15.00	14.50	17.00	18.9							
	802.11ac-VHT80 MCS0	155	5775													14.70	15.00	14.70	15.00	92.62	14.50	14.50	16.60	17.00	18.69	18.9	91.78



2.4GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
																		802.11b 1Mbps	1
	6	2437	19.50	20.00	19.60	20.00	19.90	20.00	19.40	20.00	22.67	23.0							
	11	2462	19.50	20.00	19.60	20.00	19.70	20.00	19.50	20.00	22.61	23.0							
802.11g 6Mbps	1	2412	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	17.50	17.50	Not required	17.50	Not required	20.5		
	6	2437		20.00			20.00					20.00	20.00		23.0				
	11	2462		18.00			18.00					18.00	18.00		21.0				
802.11n-HT20 MCS0	1	2412	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	17.50	17.50	Not required	17.50	Not required	20.5		
	6	2437		19.50			19.50					19.50	19.50		22.5				
	11	2462		16.00			16.00					16.00	16.00		19.0				
802.11ac-VHT20 MCS0	1	2412	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	17.50	17.50	Not required	17.50	Not required	20.5		
	6	2437		19.50			19.50					19.50	19.50		22.5				
	11	2462		16.00			16.00					16.00	16.00		19.0				

5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
																		802.11a 6Mbps	36
	40	5200	17.50	17.50	17.50	17.50	20.5												
	44	5220	17.50	17.50	17.50	17.50	20.5												
802.11n-HT20 MCS0	36	5180	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	17.50	17.50	Not required	17.50	Not required	20.5		
	40	5200		17.50			17.50					17.50	17.50		20.5				
	44	5220		17.50			17.50					17.50	17.50		20.5				
802.11n-HT40 MCS0	38	5190	16.60	17.00	95.88	16.40	17.00	95.30	17.00	17.00	16.10	17.00	19.58	20.0	95.37				
	46	5230	17.10	17.50	16.90	17.50	17.40	17.50	16.80	17.50	20.12	20.5							
802.11ac-VHT20 MCS0	36	5180	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	17.50	17.50	Not required	17.50	Not required	20.5		
	40	5200		17.50			17.50					17.50	17.50		20.5				
	44	5220		17.50			17.50					17.50	17.50		20.5				
802.11ac-VHT40 MCS0	38	5190	Not required	17.00	Not required	Not required	17.00	Not required	Not required	Not required	Not required	17.00	17.00	Not required	17.00	Not required	20.0		
	46	5230		17.50			17.50					17.50	17.50		20.5				
802.11ac-VHT80 MCS0	42	5210		16.50			16.50					16.50	16.50		19.5				

5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3		
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %		
																		802.11a 6Mbps	52
	56	5280	17.50	17.50	17.50	17.50	20.5												
	60	5300	17.50	17.50	17.50	17.50	20.5												
	64	5320	17.50	17.50	17.50	17.50	20.5												
802.11n-HT20 MCS0	52	5260	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	17.50	17.50	Not required	17.50	Not required	20.5		
	56	5280		17.50			17.50					17.50	17.50		20.5				
	60	5300		17.50			17.50					17.50	17.50		20.5				
	64	5320		17.50			17.50					17.50	17.50		20.5				
802.11n-HT40 MCS0	54	5270	17.20	17.50	95.88	17.10	17.50	95.30	17.50	17.50	17.20	17.50	20.36	20.5	95.37				
	62	5310	16.70	17.00	16.10	17.00	16.80	17.00	16.30	17.00	19.57	20.0							
802.11ac-VHT20 MCS0	52	5260	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	17.50	17.50	Not required	17.50	Not required	20.5		
	56	5280		17.50			17.50					17.50	17.50		20.5				
	60	5300		17.50			17.50					17.50	17.50		20.5				
802.11ac-VHT40 MCS0	54	5270	Not required	17.50	Not required	Not required	17.50	Not required	Not required	Not required	Not required	17.50	17.50	Not required	17.50	Not required	20.5		
	62	5310		17.00			17.00					17.00	17.00		20.0				
802.11ac-VHT80 MCS0	58	5290	Not required	16.00	Not required	Not required	16.00	Not required	Not required	Not required	Not required	16.00	16.00	Not required	16.00	Not required	19.0		
	58	5290		16.00			16.00					16.00	16.00		19.0				



5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	100	5500	Not required	17.50	Not required	Not required	15.00	Not required	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5	Not required	
	116	5580		17.50			15.00			17.50								
	124	5620		17.50			15.00			17.50								
	132	5660		17.50			15.00			17.50								
	144	5720		17.50			15.00			17.50								
	100	5500		17.50			15.00			17.50								
	116	5580		17.50			15.00			17.50								
	124	5620		17.50			15.00			17.50								
	132	5660		17.50			15.00			17.50								
	144	5720		17.50			15.00			17.50								
	102	5510		15.70			16.00			15.00								
	110	5550		17.20			17.50			15.00								
	126	5630		17.10			17.50			15.00								
	134	5670		17.30			17.50			15.00								
	142	5710		16.90			17.50			15.00								
802.11n-HT20 MCS0	100	5500	Not required	17.50	Not required	Not required	15.00	Not required	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5	Not required	
	116	5580		17.50			15.00			17.50								
	124	5620		17.50			15.00			17.50								
	132	5660		17.50			15.00			17.50								
	144	5720		17.50			15.00			17.50								
802.11n-HT40 MCS0	102	5510	Not required	16.00	Not required	Not required	15.00	Not required	Not required	16.00	Not required	16.00	Not required	16.00	Not required	19.0	Not required	
	110	5550		17.50			15.00			17.50								
	126	5630		17.10			17.50			15.00								
	134	5670		17.30			17.50			15.00								
802.11ac-VHT20 MCS0	102	5510	Not required	16.00	Not required	Not required	15.00	Not required	Not required	16.00	Not required	16.00	Not required	16.00	Not required	19.0	Not required	
	110	5550		17.50			15.00			17.50								
	126	5630		17.50			15.00			17.50								
	134	5670		17.50			15.00			17.50								
802.11ac-VHT40 MCS0	102	5510	Not required	16.00	Not required	Not required	15.00	Not required	Not required	16.00	Not required	16.00	Not required	16.00	Not required	19.0	Not required	
	110	5550		17.50			15.00			17.50								
	126	5630		17.50			15.00			17.50								
	134	5670		17.50			15.00			17.50								
802.11ac-VHT80 MCS0	106	5530	Not required	14.50	Not required	Not required	14.10	Not required	Not required	14.50	Not required	14.50	Not required	14.50	Not required	17.5	Not required	
	122	5610		17.00			14.50			15.00		17.00		17.00				
	138	5690		17.00			14.60			15.00		17.00		17.00				

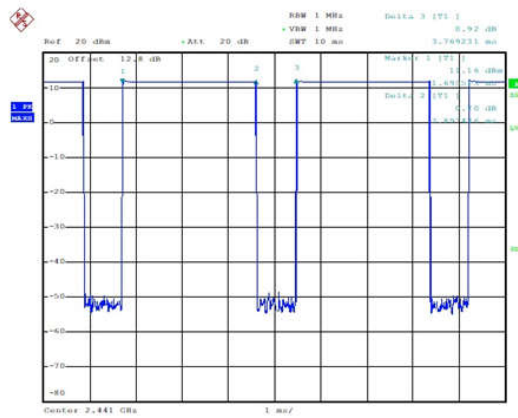
5GHz WLAN							Ant 4			Ant 3			Ant 4+3(4)		Ant 4+3(3)		Ant 4+3	
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Duty Cycle %	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
802.11a 6Mbps	149	5745	Not required	19.30	97.94	Not required	17.50	Not required	Not required	19.50	Not required	19.50	Not required	18.30	Not required	19.50	Not required	21.95
	157	5785		19.20			17.50			19.50								
	165	5825		19.20			17.50			19.50								
802.11n-HT20 MCS0	149	5745	Not required	19.50	97.94	Not required	17.50	Not required	Not required	19.50	Not required	19.50	Not required	19.50	Not required	19.50	Not required	22.5
	157	5785		19.50			17.50			19.50								
	165	5825		19.50			17.50			19.50								
802.11n-HT40 MCS0	151	5755	Not required	17.50	95.30	Not required	17.20	Not required	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5	Not required	
	159	5795		17.50			17.30			17.50		17.50		17.50				
802.11ac-VHT20 MCS0	149	5745	Not required	19.50	Not required	Not required	17.50	Not required	Not required	19.50	Not required	19.50	Not required	19.50	Not required	19.50	Not required	22.5
	157	5785		19.50			17.50			19.50								
	165	5825		19.50			17.50			19.50								
802.11ac-VHT40 MCS0	151	5755	Not required	17.50	Not required	Not required	17.50	Not required	Not required	17.50	Not required	17.50	Not required	17.50	Not required	20.5	Not required	
	159	5795		17.50			17.50			17.50		17.50		17.50				
802.11ac-VHT80 MCS0	155	5775	Not required	17.00	Not required	Not required	17.00	Not required	Not required	17.00	Not required	17.00	Not required	17.00	Not required	20.0	Not required	



Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.75	17.95	17.85
	CH 39	2441	17.98	17.23	17.21
	CH 78	2480	17.26	16.55	16.44
Tune-up Limit			18.00	18.00	18.00

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	17.60	17.40
	CH 19	2440	17.90	17.70
	CH 39	2480	17.60	17.40
Tune-up Limit			18.00	18.00

BT Duty cycle



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Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	13.20	12.50	12.20
	CH 39	2441	13.90	13.10	12.70
	CH 78	2480	14.30	13.70	13.40
Tune-up Limit			14.50	14.50	14.50

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	13.30	13.20
	CH 19	2440	13.80	13.60
	CH 39	2480	13.90	13.80
Tune-up Limit			14.5	14.5



Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	17.75	17.95	17.85
	CH 39	2441	17.98	17.23	17.21
	CH 78	2480	17.26	16.55	16.44
Tune-up Limit			18.00	18.00	18.00

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	17.60	17.40
	CH 19	2440	17.90	17.70
	CH 39	2480	17.60	17.40
Tune-up Limit			18.00	18.00