



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	32.59	32.86	32.55	33.70	23.59	23.86	23.55	24.70
GPRS 1 Tx slot	32.67	32.94	32.62	33.70	23.67	23.94	23.62	24.70
GPRS 2 Tx slots	31.11	31.12	30.76	32.00	25.11	25.12	24.76	26.00
GPRS 3 Tx slots	29.72	29.87	29.30	31.00	25.46	25.61	25.04	26.74
GPRS 4 Tx slots	28.60	28.74	28.15	30.00	25.60	25.74	25.15	27.00
EDGE 1 Tx slot	27.23	27.05	27.08	28.00	18.23	18.05	18.08	19.00
EDGE 2 Tx slots	25.77	25.99	25.86	27.00	19.77	19.99	19.86	21.00
EDGE 3 Tx slots	25.61	25.82	25.66	27.00	21.35	21.56	21.40	22.74
EDGE 4 Tx slots	24.61	24.82	24.51	25.00	21.61	21.82	21.51	22.00
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	30.07	30.28	30.09	31.00	21.07	21.28	21.09	22.00
GPRS 1 Tx slot	29.83	30.09	29.91	31.00	20.83	21.09	20.91	22.00
GPRS 2 Tx slots	28.53	28.58	28.43	29.50	22.53	22.58	22.43	23.50
GPRS 3 Tx slots	28.17	28.24	27.69	29.00	23.91	23.98	23.43	24.74
GPRS 4 Tx slots	26.55	26.94	26.23	28.00	23.55	23.94	23.23	25.00
EDGE 1 Tx slot	25.16	25.03	25.07	27.00	16.16	16.03	16.07	18.00
EDGE 2 Tx slots	25.05	24.86	24.70	26.00	19.05	18.86	18.70	20.00
EDGE 3 Tx slots	24.02	23.65	23.50	25.00	19.76	19.39	19.24	20.74
EDGE 4 Tx slots	22.95	22.76	22.22	24.00	19.95	19.76	19.22	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)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	32.59	32.86	32.55	33.70	23.59	23.86	23.55	24.70
GPRS 1 Tx slot	32.67	32.94	32.62	33.70	23.67	23.94	23.62	24.70
GPRS 2 Tx slots	31.11	31.12	30.76	32.00	25.11	25.12	24.76	26.00
GPRS 3 Tx slots	29.72	29.87	29.30	31.00	25.46	25.61	25.04	26.74
GPRS 4 Tx slots	28.60	28.74	28.15	30.00	25.60	25.74	25.15	27.00
EDGE 1 Tx slot	27.23	27.05	27.08	28.00	18.23	18.05	18.08	19.00
EDGE 2 Tx slots	25.77	25.99	25.86	27.00	19.77	19.99	19.86	21.00
EDGE 3 Tx slots	25.61	25.82	25.66	27.00	21.35	21.56	21.40	22.74
EDGE 4 Tx slots	24.61	24.82	24.51	25.00	21.61	21.82	21.51	22.00
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)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	30.07	30.28	30.09	31.00	21.07	21.28	21.09	22.00
GPRS 1 Tx slot	29.83	30.09	29.91	31.00	20.83	21.09	20.91	22.00
GPRS 2 Tx slots	28.53	28.58	28.43	29.50	22.53	22.58	22.43	23.50
GPRS 3 Tx slots	28.17	28.24	27.69	29.00	23.91	23.98	23.43	24.74
GPRS 4 Tx slots	26.55	26.94	26.23	28.00	23.55	23.94	23.23	25.00
EDGE 1 Tx slot	25.16	25.03	25.07	27.00	16.16	16.03	16.07	18.00
EDGE 2 Tx slots	25.05	24.86	24.70	26.00	19.05	18.86	18.70	20.00
EDGE 3 Tx slots	24.02	23.65	23.50	25.00	19.76	19.39	19.24	20.74
EDGE 4 Tx slots	22.95	22.76	22.22	24.00	19.95	19.76	19.22	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	32.59	32.86	32.55	33.70	23.59	23.86	23.55	24.70
GPRS 1 Tx slot	32.67	32.94	32.62	33.70	23.67	23.94	23.62	24.70
GPRS 2 Tx slots	31.11	31.12	30.76	32.00	25.11	25.12	24.76	26.00
GPRS 3 Tx slots	29.72	29.87	29.30	31.00	25.46	25.61	25.04	26.74
GPRS 4 Tx slots	28.60	28.74	28.15	30.00	25.60	25.74	25.15	27.00
EDGE 1 Tx slot	27.23	27.05	27.08	28.00	18.23	18.05	18.08	19.00
EDGE 2 Tx slots	25.77	25.99	25.86	27.00	19.77	19.99	19.86	21.00
EDGE 3 Tx slots	25.61	25.82	25.66	27.00	21.35	21.56	21.40	22.74
EDGE 4 Tx slots	24.61	24.82	24.51	25.00	21.61	21.82	21.51	22.00
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	30.07	30.28	30.09	31.00	21.07	21.28	21.09	22.00
GPRS 1 Tx slot	29.83	30.09	29.91	31.00	20.83	21.09	20.91	22.00
GPRS 2 Tx slots	28.53	28.58	28.43	29.50	22.53	22.58	22.43	23.50
GPRS 3 Tx slots	28.17	28.24	27.69	29.00	23.91	23.98	23.43	24.74
GPRS 4 Tx slots	26.55	26.94	26.23	28.00	23.55	23.94	23.23	25.00
EDGE 1 Tx slot	25.16	25.03	25.07	27.00	16.16	16.03	16.07	18.00
EDGE 2 Tx slots	25.05	24.86	24.70	26.00	19.05	18.86	18.70	20.00
EDGE 3 Tx slots	24.02	23.65	23.50	25.00	19.76	19.39	19.24	20.74
EDGE 4 Tx slots	22.95	22.76	22.22	24.00	19.95	19.76	19.22	21.00



Band	Ant 2					Ant 2				Ant0			
	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	24.75	24.62	24.51	25.00	23.98	24.02	24.05	25.00	24.75	24.71	23.85	25.00
3GPP Rel 99	RMC 12.2Kbps	24.78	24.68	24.53	25.00	24.03	24.10	24.09	25.00	24.78	24.75	23.88	25.00
3GPP Rel 6	HSDPA Subtest-1	23.66	23.66	23.55	24.00	22.80	22.88	22.80	24.00	23.81	23.70	22.55	24.00
3GPP Rel 6	HSDPA Subtest-2	23.64	23.71	23.52	24.00	22.89	22.94	22.88	24.00	23.79	23.69	22.51	24.00
3GPP Rel 6	HSDPA Subtest-3	23.24	23.26	23.07	23.50	22.29	22.42	22.43	23.50	23.23	23.37	22.23	23.50
3GPP Rel 6	HSDPA Subtest-4	23.28	23.35	23.05	23.50	22.33	22.46	22.42	23.50	23.31	23.32	22.20	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.62	23.64	23.44	24.00	22.78	22.95	22.84	24.00	23.76	23.80	22.46	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.55	23.76	23.49	24.00	22.72	22.87	22.94	24.00	23.70	23.72	22.48	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	23.30	23.26	22.99	23.50	22.36	22.50	22.35	23.50	23.26	23.28	22.15	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	23.21	23.20	22.95	23.50	22.47	22.39	22.42	23.50	23.28	23.23	22.15	23.50
3GPP Rel 6	HSUPA Subtest-1	23.79	23.60	23.68	24.00	22.75	22.98	22.84	24.00	23.59	23.71	22.60	24.00
3GPP Rel 6	HSUPA Subtest-2	21.79	21.66	21.63	22.00	20.90	20.99	21.08	22.00	21.59	21.56	20.82	22.00
3GPP Rel 6	HSUPA Subtest-3	22.81	22.72	22.68	23.00	21.97	22.10	22.01	23.00	22.71	22.70	21.71	23.00
3GPP Rel 6	HSUPA Subtest-4	21.78	21.82	21.64	22.00	20.97	21.03	21.12	22.00	21.47	21.58	20.69	22.00
3GPP Rel 6	HSUPA Subtest-5	23.74	23.76	23.53	24.00	22.83	22.95	22.98	24.00	23.53	23.64	22.68	24.00



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	
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	24.85	24.79	24.77	25.00	24.65	24.71	24.69	25.00	24.65	24.72	23.80	25.00
3GPP Rel 99	RMC 12.2Kbps	24.87	24.83	24.80	25.00	24.70	24.75	24.72	25.00	24.70	24.76	23.82	25.00
3GPP Rel 6	HSDPA Subtest-1	23.77	23.85	23.66	24.00	23.50	23.52	23.47	24.00	23.80	23.80	22.58	24.00
3GPP Rel 6	HSDPA Subtest-2	23.77	23.83	23.63	24.00	23.53	23.56	23.59	24.00	23.80	23.72	22.49	24.00
3GPP Rel 6	HSDPA Subtest-3	23.27	23.33	23.18	23.50	22.98	23.11	23.04	23.50	23.26	23.31	22.18	23.50
3GPP Rel 6	HSDPA Subtest-4	23.37	23.43	23.13	23.50	22.94	23.14	23.09	23.50	23.24	23.36	22.24	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.70	23.75	23.64	24.00	23.39	23.57	23.52	24.00	23.72	23.76	22.43	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.69	23.83	23.55	24.00	23.48	23.51	23.59	24.00	23.68	23.80	22.48	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	23.31	23.34	23.19	23.50	23.06	23.21	23.05	23.50	23.23	23.25	22.13	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	23.39	23.29	23.10	23.50	23.09	23.09	23.08	23.50	23.30	23.18	22.19	23.50
3GPP Rel 6	HSUPA Subtest-1	23.89	23.73	23.80	24.00	23.45	23.66	23.56	24.00	23.67	23.71	22.58	24.00
3GPP Rel 6	HSUPA Subtest-2	21.82	21.72	21.79	22.00	21.64	21.68	21.76	22.00	21.53	21.51	20.80	22.00
3GPP Rel 6	HSUPA Subtest-3	22.94	22.82	22.84	23.00	22.69	22.78	22.73	23.00	22.61	22.74	21.65	23.00
3GPP Rel 6	HSUPA Subtest-4	21.98	21.94	21.81	22.00	21.55	21.68	21.78	22.00	21.52	21.53	20.69	22.00
3GPP Rel 6	HSUPA Subtest-5	23.83	23.82	23.59	24.00	23.55	23.63	23.70	24.00	23.57	23.66	22.70	24.00



Band		Ant 2			Tune-up Limit (dBm)
		WCDMA II			
TX Channel		9262	9400	9538	
Rx Channel		9662	9800	9938	
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	AMR 12.2Kbps	23.87	23.99	23.96	25.00
3GPP Rel 99	RMC 12.2Kbps	23.89	24.03	24.00	25.00
3GPP Rel 6	HSDPA Subtest-1	22.76	22.77	22.68	24.00
3GPP Rel 6	HSDPA Subtest-2	22.77	22.74	22.70	24.00
3GPP Rel 6	HSDPA Subtest-3	22.30	22.38	22.17	23.50
3GPP Rel 6	HSDPA Subtest-4	22.30	22.44	22.18	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.73	22.73	22.60	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.73	22.85	22.61	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.41	22.32	22.17	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.34	22.31	22.14	23.50
3GPP Rel 6	HSUPA Subtest-1	22.94	22.76	22.80	24.00
3GPP Rel 6	HSUPA Subtest-2	20.87	20.78	20.77	22.00
3GPP Rel 6	HSUPA Subtest-3	21.90	21.90	21.85	23.00
3GPP Rel 6	HSUPA Subtest-4	20.96	20.92	20.76	22.00
3GPP Rel 6	HSUPA Subtest-5	22.86	22.84	22.60	24.00



Band		Ant 0			Tune-up Limit (dBm)
		WCDMA IV			
TX Channel		1312	1413	1513	
Rx Channel		1537	1638	1738	
Frequency (MHz)		1712.4	1732.6	1752.6	
3GPP Rel 99	AMR 12.2Kbps	21.44	21.44	21.30	23.00
3GPP Rel 99	RMC 12.2Kbps	21.45	21.47	21.32	23.00
3GPP Rel 6	HSDPA Subtest-1	20.14	20.14	20.20	22.00
3GPP Rel 6	HSDPA Subtest-2	20.18	20.24	20.17	22.00
3GPP Rel 6	HSDPA Subtest-3	19.67	19.72	19.75	21.50
3GPP Rel 6	HSDPA Subtest-4	19.61	19.85	19.82	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	20.12	20.30	20.15	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	20.07	20.22	20.21	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	19.73	19.82	19.69	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	19.77	19.77	19.71	21.50
3GPP Rel 6	HSUPA Subtest-1	20.16	20.31	20.14	22.00
3GPP Rel 6	HSUPA Subtest-2	18.25	18.32	18.37	20.00
3GPP Rel 6	HSUPA Subtest-3	19.34	19.42	19.34	21.00
3GPP Rel 6	HSUPA Subtest-4	18.30	18.36	18.45	20.00
3GPP Rel 6	HSUPA Subtest-5	20.25	20.27	20.30	22.00



Band	Ant 2					Ant 2			Ant0				
	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	23.19	23.25	23.04	24.20	23.61	23.68	23.69	24.80	24.75	24.71	23.85	25.00
3GPP Rel 99	RMC 12.2Kbps	23.24	23.31	23.05	24.20	23.63	23.72	23.74	24.80	24.78	24.75	23.88	25.00
3GPP Rel 6	HSDPA Subtest-1	22.22	22.22	22.14	23.20	22.48	22.49	22.45	23.80	23.81	23.70	22.55	24.00
3GPP Rel 6	HSDPA Subtest-2	22.20	22.19	22.08	23.20	22.48	22.48	22.51	23.80	23.79	23.69	22.51	24.00
3GPP Rel 6	HSDPA Subtest-3	21.74	21.82	21.57	22.70	21.94	22.05	22.01	23.30	23.23	23.37	22.23	23.50
3GPP Rel 6	HSDPA Subtest-4	21.76	21.86	21.60	22.70	21.99	22.13	22.10	23.30	23.31	23.32	22.20	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.14	22.16	22.03	23.20	22.39	22.58	22.43	23.80	23.76	23.80	22.46	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.16	22.36	22.00	23.20	22.41	22.47	22.48	23.80	23.70	23.72	22.48	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.84	21.78	21.57	22.70	21.98	22.07	21.97	23.30	23.26	23.28	22.15	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	21.76	21.80	21.54	22.70	22.01	22.01	22.04	23.30	23.28	23.23	22.15	23.50
3GPP Rel 6	HSUPA Subtest-1	22.37	22.23	22.27	23.20	22.37	22.57	22.52	23.80	23.59	23.71	22.60	24.00
3GPP Rel 6	HSUPA Subtest-2	20.30	20.17	20.18	21.20	20.59	20.60	20.67	21.80	21.59	21.56	20.82	22.00
3GPP Rel 6	HSUPA Subtest-3	21.41	21.32	21.23	22.20	21.64	21.67	21.66	22.80	22.71	22.70	21.71	23.00
3GPP Rel 6	HSUPA Subtest-4	20.34	20.31	20.23	21.20	20.52	20.69	20.71	21.80	21.47	21.58	20.69	22.00
3GPP Rel 6	HSUPA Subtest-5	22.28	22.29	22.11	23.20	22.50	22.56	22.63	23.80	23.53	23.64	22.68	24.00



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	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	24.85	24.79	24.77	25.00	21.04	21.20	21.15	21.90	24.65	24.72	23.80	25.00
3GPP Rel 99	RMC 12.2Kbps	24.87	24.83	24.80	25.00	21.09	21.24	21.19	21.90	24.70	24.76	23.82	25.00
3GPP Rel 6	HSDPA Subtest-1	23.77	23.85	23.66	24.00	20.07	20.08	20.01	20.90	23.80	23.80	22.58	24.00
3GPP Rel 6	HSDPA Subtest-2	23.77	23.83	23.63	24.00	20.01	20.11	20.04	20.90	23.80	23.72	22.49	24.00
3GPP Rel 6	HSDPA Subtest-3	23.27	23.33	23.18	23.50	19.51	19.59	19.56	20.40	23.26	23.31	22.18	23.50
3GPP Rel 6	HSDPA Subtest-4	23.37	23.43	23.13	23.50	19.47	19.69	19.64	20.40	23.24	23.36	22.24	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.70	23.75	23.64	24.00	19.90	20.17	20.04	20.90	23.72	23.76	22.43	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.69	23.83	23.55	24.00	20.00	20.06	20.08	20.90	23.68	23.80	22.48	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	23.31	23.34	23.19	23.50	19.54	19.70	19.62	20.40	23.23	23.25	22.13	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	23.39	23.29	23.10	23.50	19.59	19.65	19.57	20.40	23.30	23.18	22.19	23.50
3GPP Rel 6	HSUPA Subtest-1	23.89	23.73	23.80	24.00	19.97	20.13	20.05	20.90	23.67	23.71	22.58	24.00
3GPP Rel 6	HSUPA Subtest-2	21.82	21.72	21.79	22.00	18.09	18.21	18.31	18.90	21.53	21.51	20.80	22.00
3GPP Rel 6	HSUPA Subtest-3	22.94	22.82	22.84	23.00	19.12	19.35	19.20	19.90	22.61	22.74	21.65	23.00
3GPP Rel 6	HSUPA Subtest-4	21.98	21.94	21.81	22.00	18.08	18.23	18.33	18.90	21.52	21.53	20.69	22.00
3GPP Rel 6	HSUPA Subtest-5	23.83	23.82	23.59	24.00	20.06	20.13	20.15	20.90	23.57	23.66	22.70	24.00



Band	Ant 2					Ant 2				Ant0			
	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	23.87	23.99	23.96	24.70	23.98	24.02	24.05	25.00	24.75	24.71	23.85	25.00
3GPP Rel 99	RMC 12.2Kbps	23.89	24.03	24.00	24.70	24.03	24.10	24.09	25.00	24.78	24.75	23.88	25.00
3GPP Rel 6	HSDPA Subtest-1	22.76	22.77	22.68	23.70	22.80	22.88	22.80	24.00	23.81	23.70	22.55	24.00
3GPP Rel 6	HSDPA Subtest-2	22.77	22.74	22.70	23.70	22.89	22.94	22.88	24.00	23.79	23.69	22.51	24.00
3GPP Rel 6	HSDPA Subtest-3	22.30	22.38	22.17	23.20	22.29	22.42	22.43	23.50	23.23	23.37	22.23	23.50
3GPP Rel 6	HSDPA Subtest-4	22.30	22.44	22.18	23.20	22.33	22.46	22.42	23.50	23.31	23.32	22.20	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.73	22.73	22.60	23.70	22.78	22.95	22.84	24.00	23.76	23.80	22.46	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.73	22.85	22.61	23.70	22.72	22.87	22.94	24.00	23.70	23.72	22.48	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.41	22.32	22.17	23.20	22.36	22.50	22.35	23.50	23.26	23.28	22.15	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.34	22.31	22.14	23.20	22.47	22.39	22.42	23.50	23.28	23.23	22.15	23.50
3GPP Rel 6	HSUPA Subtest-1	22.94	22.76	22.80	23.70	22.75	22.98	22.84	24.00	23.59	23.71	22.60	24.00
3GPP Rel 6	HSUPA Subtest-2	20.87	20.78	20.77	21.70	20.90	20.99	21.08	22.00	21.59	21.56	20.82	22.00
3GPP Rel 6	HSUPA Subtest-3	21.90	21.90	21.85	22.70	21.97	22.10	22.01	23.00	22.71	22.70	21.71	23.00
3GPP Rel 6	HSUPA Subtest-4	20.96	20.92	20.76	21.70	20.97	21.03	21.12	22.00	21.47	21.58	20.69	22.00
3GPP Rel 6	HSUPA Subtest-5	22.86	22.84	22.60	23.70	22.83	22.95	22.98	24.00	23.53	23.64	22.68	24.00



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	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	24.85	24.79	24.77	25.00	21.44	21.44	21.30	22.20	24.65	24.72	23.80	25.00
3GPP Rel 99	RMC 12.2Kbps	24.87	24.83	24.80	25.00	21.45	21.47	21.32	22.20	24.70	24.76	23.82	25.00
3GPP Rel 6	HSDPA Subtest-1	23.77	23.85	23.66	24.00	20.14	20.14	20.20	21.20	23.80	23.80	22.58	24.00
3GPP Rel 6	HSDPA Subtest-2	23.77	23.83	23.63	24.00	20.18	20.24	20.17	21.20	23.80	23.72	22.49	24.00
3GPP Rel 6	HSDPA Subtest-3	23.27	23.33	23.18	23.50	19.67	19.72	19.75	20.70	23.26	23.31	22.18	23.50
3GPP Rel 6	HSDPA Subtest-4	23.37	23.43	23.13	23.50	19.61	19.85	19.82	20.70	23.24	23.36	22.24	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	23.70	23.75	23.64	24.00	20.12	20.30	20.15	21.20	23.72	23.76	22.43	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	23.69	23.83	23.55	24.00	20.07	20.22	20.21	21.20	23.68	23.80	22.48	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	23.31	23.34	23.19	23.50	19.73	19.82	19.69	20.70	23.23	23.25	22.13	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	23.39	23.29	23.10	23.50	19.77	19.77	19.71	20.70	23.30	23.18	22.19	23.50
3GPP Rel 6	HSUPA Subtest-1	23.89	23.73	23.80	24.00	20.16	20.31	20.14	21.20	23.67	23.71	22.58	24.00
3GPP Rel 6	HSUPA Subtest-2	21.82	21.72	21.79	22.00	18.25	18.32	18.37	19.20	21.53	21.51	20.80	22.00
3GPP Rel 6	HSUPA Subtest-3	22.94	22.82	22.84	23.00	19.34	19.42	19.34	20.20	22.61	22.74	21.65	23.00
3GPP Rel 6	HSUPA Subtest-4	21.98	21.94	21.81	22.00	18.30	18.36	18.45	19.20	21.52	21.53	20.69	22.00
3GPP Rel 6	HSUPA Subtest-5	23.83	23.82	23.59	24.00	20.25	20.27	20.30	21.20	23.57	23.66	22.70	24.00



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)	24.69	24.66	24.05	25.00	24.66	24.70	24.57	25.00	24.63	24.61	24.68	25.00
RC1 SO55	24.70	24.70	24.09	25.00	24.66	24.70	24.58	25.00	24.66	24.64	24.67	25.00
RC3 SO55	24.71	24.73	24.04	25.00	24.61	24.64	24.57	25.00	24.69	24.73	24.70	25.00
RC3 SO32 (F+SCH)	24.68	24.67	24.07	25.00	24.59	24.61	24.48	25.00	24.64	24.64	24.60	25.00
RC3 SO32 (+SCH)	24.68	24.74	24.06	25.00	24.63	24.68	24.59	25.00	24.70	24.75	24.71	25.00
RTAP 153.6Kbps	24.60	24.72	24.01	25.00	24.72	24.73	24.48	25.00	24.69	24.73	24.69	25.00
RETAP 4096Bits												



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)	24.68	24.69	24.47	25.00	24.61	24.65	24.51	25.00	24.70	24.41	24.53	25.00
RC1 SO55	24.67	24.75	24.50	25.00	24.70	24.77	24.58	25.00	24.74	24.48	24.51	25.00
RC3 SO55	24.64	24.72	24.45	25.00	24.62	24.69	24.57	25.00	24.69	24.45	24.46	25.00
RC3 SO32 (F+SCH)	24.69	24.71	24.50	25.00	24.66	24.68	24.47	25.00	24.68	24.46	24.51	25.00
RC3 SO32 (+SCH)	24.62	24.67	24.47	25.00	24.60	24.68	24.59	25.00	24.58	24.42	24.43	25.00
RTAP 153.6Kbps	24.65	24.68	24.51	25.00	24.66	24.71	24.56	25.00	24.72	24.47	24.47	25.00
RETAP 4098Bits												



Band	Ant 0			Tune-up Limit (dBm)
	CDMA BC1			
TX Channel	25	600	1175	
Frequency (MHz)	1851.25	1880	1908.75	
RC1 SO55	23.18	23.14	23.04	24.70
RC3 SO55	23.16	23.28	23.00	24.70
RC3 SO32 (F+SCH)	23.10	23.12	23.02	24.70
RC3 SO32 (+SCH)	23.10	23.27	23.05	24.70
RTAP 153.6Kbps	23.16	23.24	23.04	24.70
RETAP 4096Bits	23.16	23.20	23.05	24.70



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)	24.69	24.66	24.05	25.00	22.92	22.97	22.68	23.70	24.63	24.61	24.68	25.00
RC1 SO55	24.70	24.70	24.09	25.00	22.96	22.98	22.69	23.70	24.66	24.64	24.67	25.00
RC3 SO55	24.71	24.73	24.04	25.00	22.96	22.95	22.70	23.70	24.69	24.73	24.70	25.00
RC3 SO32 (F+SCH)	24.68	24.67	24.07	25.00	22.93	22.94	22.71	23.70	24.64	24.64	24.60	25.00
RC3 SO32 (+SCH)	24.68	24.74	24.06	25.00	22.99	23.00	22.74	23.70	24.70	24.75	24.71	25.00
RTAP 153.6Kbps	24.60	24.72	24.01	25.00	22.91	22.93	22.72	23.70	24.69	24.73	24.69	25.00
RETAP 4096Bits												



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)	24.68	24.69	24.47	25.00	23.29	23.28	23.38	24.10	24.70	24.41	24.53	25.00
RC1 SO55	24.67	24.75	24.50	25.00	23.33	23.39	23.41	24.10	24.74	24.48	24.51	25.00
RC3 SO55	24.64	24.72	24.45	25.00	23.28	23.35	23.50	24.10	24.69	24.45	24.46	25.00
RC3 SO32 (F+SCH)	24.69	24.71	24.50	25.00	23.31	23.33	23.46	24.10	24.68	24.46	24.51	25.00
RC3 SO32 (+SCH)	24.62	24.67	24.47	25.00	23.36	23.44	23.52	24.10	24.58	24.42	24.43	25.00
RTAP 153.6Kbps	24.65	24.68	24.51	25.00	23.31	23.29	23.45	24.10	24.72	24.47	24.47	25.00
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	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		817.9	820.5	823.1	
RC1 SO55	24.69	24.66	24.05	25.00	23.18	23.14	23.04	23.90	24.63	24.61	24.68	25.00
RC3 SO55	24.70	24.70	24.09	25.00	23.16	23.28	23.00	23.90	24.66	24.64	24.67	25.00
RC3 SO32 (F+SCH)	24.71	24.73	24.04	25.00	23.10	23.12	23.02	23.90	24.69	24.73	24.70	25.00
RC3 SO32 (+SCH)	24.68	24.67	24.07	25.00	23.10	23.27	23.05	23.90	24.64	24.64	24.60	25.00
RTAP 153.6Kbps	24.68	24.74	24.06	25.00	23.16	23.24	23.04	23.90	24.70	24.75	24.71	25.00
RETAP 4096Bits	24.60	24.72	24.01	25.00	23.16	23.20	23.05	23.90	24.69	24.73	24.69	25.00



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)	24.68	24.69	24.47	25.00	24.61	24.65	24.51	25.00	24.70	24.41	24.53	25.00
RC1 SO55	24.67	24.75	24.50	25.00	24.70	24.77	24.58	25.00	24.74	24.48	24.51	25.00
RC3 SO55	24.64	24.72	24.45	25.00	24.62	24.69	24.57	25.00	24.69	24.45	24.46	25.00
RC3 SO32 (F+SCH)	24.69	24.71	24.50	25.00	24.66	24.68	24.47	25.00	24.68	24.46	24.51	25.00
RC3 SO32 (+SCH)	24.62	24.67	24.47	25.00	24.60	24.68	24.59	25.00	24.58	24.42	24.43	25.00
RTAP 153.6Kbps	24.65	24.68	24.51	25.00	24.66	24.71	24.56	25.00	24.72	24.47	24.47	25.00
RETAP 4098Bits												



Band 2							
Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. 1870	Power Middle Ch / Freq. 1890	Power High Ch / Freq. 1910	
Channel				1870	1890	1910	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	24.61	24.63	24.50	25
20	QPSK	1	49	24.54	24.59	24.41	
20	QPSK	1	98	24.48	24.50	24.37	
20	QPSK	50	0	23.64	23.68	23.60	
20	QPSK	50	24	23.73	23.69	23.60	
20	QPSK	50	60	23.71	23.66	23.57	24
20	QPSK	100	0	23.73	23.67	23.60	
20	16QAM	1	0	24.00	23.99	23.94	
20	16QAM	1	49	23.92	23.92	23.77	
20	16QAM	1	99	23.94	23.99	23.69	
20	16QAM	50	0	22.67	22.68	22.63	23
20	16QAM	50	24	22.74	22.72	22.60	
20	16QAM	50	50	22.73	22.68	22.58	
20	16QAM	100	0	22.74	22.69	22.63	
20	16QAM	1	0	22.75	22.61	22.75	
20	64QAM	1	49	22.80	22.84	22.63	23
20	64QAM	1	99	22.75	22.69	22.51	
20	64QAM	50	0	21.69	21.71	21.63	
20	64QAM	50	24	21.77	21.72	21.64	
20	64QAM	50	50	21.74	21.70	21.61	
20	64QAM	100	0	21.76	21.69	21.62	22
Channel				1867.5	1890	1912.5	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	24.51	24.60	24.50	25
15	QPSK	1	37	24.53	24.52	24.37	
15	QPSK	1	74	24.41	24.42	24.32	
15	QPSK	36	0	23.56	23.64	23.52	
15	QPSK	36	20	23.72	23.64	23.54	
15	QPSK	36	36	23.65	23.59	23.53	24
15	QPSK	75	0	23.72	23.59	23.55	
15	16QAM	1	0	23.94	23.90	23.79	
15	16QAM	1	37	23.92	23.85	23.70	
15	16QAM	1	74	23.94	23.87	23.63	
15	16QAM	36	0	22.66	22.65	22.56	23
15	16QAM	36	20	22.73	22.63	22.58	
15	16QAM	36	36	22.64	22.59	22.52	
15	16QAM	75	0	22.72	22.59	22.56	
15	16QAM	1	0	22.74	22.75	22.66	
15	64QAM	1	37	22.70	22.76	22.60	23
15	64QAM	1	74	22.64	22.67	22.43	
15	64QAM	36	0	21.66	21.64	21.56	
15	64QAM	36	20	21.77	21.68	21.63	
15	64QAM	36	36	21.70	21.61	21.61	
15	64QAM	75	0	21.67	21.65	21.57	22
Channel				1855	1880	1905	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	24.55	24.60	24.47	25
10	QPSK	1	25	24.47	24.55	24.41	
10	QPSK	1	49	24.40	24.42	24.34	
10	QPSK	25	0	23.54	23.60	23.52	
10	QPSK	25	12	23.73	23.68	23.53	
10	QPSK	25	25	23.70	23.61	23.51	24
10	QPSK	50	0	23.65	23.64	23.50	
10	16QAM	1	0	23.94	23.90	23.77	
10	16QAM	1	25	23.92	23.85	23.68	
10	16QAM	1	49	23.74	23.85	23.67	
10	16QAM	25	0	22.62	22.65	22.55	23
10	16QAM	25	12	22.71	22.62	22.59	
10	16QAM	25	25	22.64	22.59	22.52	
10	16QAM	50	0	22.74	22.69	22.61	
10	16QAM	1	0	22.74	22.74	22.74	
10	64QAM	1	25	22.74	22.79	22.59	23
10	64QAM	1	49	22.73	22.61	22.45	
10	64QAM	25	0	21.63	21.66	21.60	
10	64QAM	25	12	21.72	21.68	21.64	
10	64QAM	25	25	21.70	21.61	21.60	
10	64QAM	50	0	21.75	21.66	21.55	22
Channel				1852.5	1890	1917.5	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	24.54	24.62	24.46	25
5	QPSK	1	12	24.53	24.52	24.32	
5	QPSK	1	24	24.45	24.42	24.31	
5	QPSK	12	0	23.54	23.63	23.56	
5	QPSK	12	7	23.63	23.63	23.52	
5	QPSK	12	13	23.64	23.65	23.56	24
5	QPSK	25	0	23.72	23.67	23.53	
5	16QAM	1	0	23.99	23.92	23.83	
5	16QAM	1	12	23.97	23.86	23.68	
5	16QAM	1	24	23.76	23.85	23.64	
5	16QAM	12	0	22.67	22.64	22.59	23
5	16QAM	12	7	22.68	22.71	22.58	
5	16QAM	12	13	22.69	22.59	22.54	
5	16QAM	25	0	22.67	22.63	22.56	
5	16QAM	1	0	22.78	22.78	22.70	
5	64QAM	1	12	22.75	22.80	22.63	23
5	64QAM	1	24	22.65	22.62	22.42	
5	64QAM	12	0	21.61	21.61	21.62	
5	64QAM	12	7	21.71	21.71	21.56	
5	64QAM	12	13	21.70	21.68	21.60	
5	64QAM	25	0	21.73	21.68	21.62	22
Channel				1861.5	1890	1918.5	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	24.60	24.55	24.46	25
3	QPSK	1	8	24.52	24.55	24.34	
3	QPSK	1	14	24.39	24.40	24.36	
3	QPSK	8	0	23.56	23.55	23.57	
3	QPSK	8	4	23.72	23.67	23.56	
3	QPSK	8	7	23.65	23.59	23.48	24
3	QPSK	15	0	23.64	23.57	23.59	
3	16QAM	1	0	23.95	23.98	23.77	
3	16QAM	1	8	23.95	23.86	23.68	
3	16QAM	1	14	23.80	23.63	23.61	
3	16QAM	8	0	22.64	22.66	22.56	23
3	16QAM	8	4	22.75	22.64	22.51	
3	16QAM	8	7	22.68	22.58	22.52	
3	16QAM	15	0	22.74	22.59	22.63	
3	16QAM	1	0	22.78	22.72	22.70	
3	64QAM	1	8	22.70	22.78	22.62	23
3	64QAM	1	14	22.66	22.69	22.51	
3	64QAM	8	0	21.66	21.65	21.62	
3	64QAM	8	4	21.70	21.71	21.54	
3	64QAM	8	7	21.68	21.68	21.60	
3	64QAM	15	0	21.87	21.68	21.59	22
Channel				1860.7	1890	1919.3	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	24.60	24.61	24.43	25
1.4	QPSK	1	3	24.51	24.49	24.31	
1.4	QPSK	1	5	24.44	24.48	24.37	
1.4	QPSK	3	0	23.61	23.57	24.43	
1.4	QPSK	3	1	24.52	24.51	24.38	
1.4	QPSK	3	3	24.40	24.50	24.36	24
1.4	QPSK	6	0	23.70	23.60	23.51	
1.4	16QAM	1	0	23.95	23.99	23.78	
1.4	16QAM	1	3	23.95	23.85	23.70	
1.4	16QAM	1	5	23.77	23.76	23.67	
1.4	16QAM	3	0	23.65	23.60	23.60	24
1.4	16QAM	3	1	23.71	23.69	23.47	
1.4	16QAM	3	3	23.72	23.67	23.57	
1.4	16QAM	6	0	22.69	22.62	22.63	
1.4	64QAM	1	0	22.73	22.76	22.68	
1.4	64QAM	1	3	22.74	22.63	22.55	23
1.4	64QAM	1	5	22.89	22.82	22.47	
1.4	64QAM	3	0	22.73	22.57	22.59	
1.4	64QAM	3	1	22.75	22.74	22.74	
1.4	64QAM	3	3	22.70	22.76	22.62	
1.4	64QAM	6	0	21.68	21.69	21.58	22
Channel				1860.7	1890	1919.3	
Frequency (MHz)				1850.7	1880	1909.3	



Band 4									
Art 2									
Band	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20050	Power Middle Ch. Freq. 20175	Power High Ch. Freq. 20300	Tune-up limit (dBm)		
Channel									
Frequency (MHz)									
20	GPSK	1	0	23.90	23.84	23.88	25		
20	GPSK	1	49	23.74	23.76	23.79			
20	GPSK	1	39	23.72	23.75	23.78			
20	GPSK	50	0	23.25	23.28	23.31			
20	GPSK	50	24	23.27	23.21	23.33			
20	GPSK	50	50	23.21	23.20	23.24	24		
20	GPSK	100	0	23.25	23.24	23.30			
20	16QAM	1	0	23.54	23.59	23.62			
20	16QAM	1	49	23.40	23.42	23.46	24		
20	16QAM	1	99	23.36	23.38	23.40			
20	16QAM	50	0	22.25	22.29	22.32			
20	16QAM	50	24	22.29	22.23	22.31	23		
20	16QAM	50	50	22.22	22.22	22.24			
20	16QAM	100	0	22.24	22.21	22.32			
20	64QAM	1	0	22.42	22.48	22.47	23		
20	64QAM	1	49	22.30	22.33	22.31			
20	64QAM	1	99	22.32	22.34	22.32			
20	64QAM	50	0	21.27	21.32	21.35	22		
20	64QAM	50	24	21.28	21.26	21.34			
20	64QAM	50	50	21.23	21.24	21.28			
20	64QAM	100	0	21.27	21.24	21.33			
20	64QAM	100	0	21.27	21.24	21.33			
Channel									
Frequency (MHz)									
15	GPSK	1	0	23.89	23.84	23.88	25		
15	GPSK	1	37	23.65	23.69	23.79			
15	GPSK	1	74	23.62	23.72	23.76			
15	GPSK	36	0	23.16	23.22	23.28			
15	GPSK	36	20	23.19	23.17	23.25			
15	GPSK	36	39	23.16	23.10	23.24	24		
15	GPSK	75	0	23.22	23.22	23.25			
15	16QAM	1	0	23.50	23.51	23.55			
15	16QAM	1	37	23.36	23.35	23.45	24		
15	16QAM	1	74	23.28	23.29	23.40			
15	16QAM	36	0	22.15	22.28	22.25			
15	16QAM	36	20	22.22	22.14	22.23	23		
15	16QAM	36	39	22.17	22.13	22.18			
15	16QAM	75	0	22.15	22.21	22.26			
15	64QAM	1	0	22.33	22.47	22.38	23		
15	64QAM	1	37	22.26	22.31	22.31			
15	64QAM	1	74	22.32	22.34	22.30			
15	64QAM	36	0	21.20	21.31	21.35	22		
15	64QAM	36	20	21.18	21.23	21.28			
15	64QAM	36	39	21.20	21.16	21.24			
15	64QAM	75	0	21.20	21.23	21.28			
15	64QAM	75	0	21.20	21.23	21.28			
Channel									
Frequency (MHz)									
10	GPSK	1	0	23.84	23.85	23.86	25		
10	GPSK	1	25	23.73	23.68	23.77			
10	GPSK	1	49	23.68	23.66	23.76			
10	GPSK	25	0	23.25	23.18	23.29			
10	GPSK	25	12	23.25	23.15	23.31			
10	GPSK	25	25	23.11	23.20	23.21	24		
10	GPSK	50	0	23.20	23.14	23.21			
10	16QAM	1	0	23.53	23.56	23.52			
10	16QAM	1	25	23.35	23.33	23.40	24		
10	16QAM	1	49	23.36	23.35	23.38			
10	16QAM	25	0	22.15	22.25	22.27			
10	16QAM	25	12	22.20	22.20	22.25	23		
10	16QAM	25	25	22.13	22.21	22.18			
10	16QAM	50	0	22.23	22.15	22.24			
10	64QAM	1	0	22.32	22.40	22.45	23		
10	64QAM	1	25	22.27	22.29	22.25			
10	64QAM	1	49	22.30	22.34	22.34			
10	64QAM	25	0	21.17	21.23	21.26	22		
10	64QAM	25	12	21.18	21.25	21.28			
10	64QAM	25	25	21.16	21.16	21.20			
10	64QAM	50	0	21.21	21.15	21.23			
10	64QAM	50	0	21.21	21.15	21.23			
Channel									
Frequency (MHz)									
5	GPSK	1	0	23.88	23.80	23.89	25		
5	GPSK	1	12	23.67	23.70	23.76			
5	GPSK	1	24	23.63	23.72	23.71			
5	GPSK	12	0	23.25	23.18	23.24			
5	GPSK	12	7	23.27	23.12	23.28			
5	GPSK	12	13	23.21	23.14	23.23	24		
5	GPSK	25	0	23.15	23.15	23.25			
5	16QAM	1	0	23.50	23.52	23.55			
5	16QAM	1	12	23.36	23.34	23.46	24		
5	16QAM	1	24	23.28	23.29	23.30			
5	16QAM	12	0	22.20	22.25	22.23			
5	16QAM	12	7	22.28	22.14	22.30	23		
5	16QAM	12	13	22.20	22.19	22.22			
5	16QAM	25	0	22.23	22.15	22.31			
5	64QAM	1	0	22.34	22.42	22.41	23		
5	64QAM	1	12	22.20	22.23	22.28			
5	64QAM	1	24	22.27	22.27	22.27			
5	64QAM	12	0	21.23	21.22	21.33	22		
5	64QAM	12	7	21.18	21.21	21.26			
5	64QAM	12	13	21.15	21.22	21.20			
5	64QAM	25	0	21.26	21.21	21.33			
5	64QAM	25	0	21.26	21.21	21.33			
Channel									
Frequency (MHz)									
3	GPSK	1	0	23.83	23.88	23.93	25		
3	GPSK	1	8	23.73	23.74	23.79			
3	GPSK	1	14	23.67	23.70	23.73			
3	GPSK	8	0	23.23	23.18	23.31			
3	GPSK	8	4	23.22	23.15	23.33			
3	GPSK	8	7	23.17	23.16	23.23	24		
3	GPSK	15	0	23.22	23.23	23.24			
3	16QAM	1	0	23.53	23.49	23.56			
3	16QAM	1	8	23.35	23.33	23.45	24		
3	16QAM	1	14	23.36	23.30	23.31			
3	16QAM	8	0	22.24	22.19	22.23			
3	16QAM	8	4	22.19	22.17	22.22	23		
3	16QAM	8	7	22.17	22.18	22.16			
3	16QAM	15	0	22.16	22.14	22.31			
3	64QAM	1	0	22.42	22.47	22.37	23		
3	64QAM	1	8	22.30	22.23	22.29			
3	64QAM	1	14	22.26	22.34	22.27			
3	64QAM	8	0	21.22	21.28	21.27	22		
3	64QAM	8	4	21.21	21.26	21.24			
3	64QAM	8	7	21.15	21.15	21.25			
3	64QAM	15	0	21.24	21.19	21.27			
3	64QAM	15	0	21.24	21.19	21.27			
Channel									
Frequency (MHz)									
1.4	GPSK	1	0	23.80	23.83	23.97	25		
1.4	GPSK	1	3	23.69	23.67	23.74			
1.4	GPSK	1	5	23.72	23.75	23.72			
1.4	GPSK	3	0	23.73	23.68	23.62			
1.4	GPSK	3	1	23.64	23.64	23.67			
1.4	GPSK	3	3	23.72	23.69	23.68	24		
1.4	GPSK	6	0	23.24	23.21	23.28			
1.4	16QAM	1	0	23.49	23.59	23.57			
1.4	16QAM	1	3	23.38	23.34	23.45	24		
1.4	16QAM	1	5	23.29	23.29	23.30			
1.4	16QAM	3	0	23.46	23.49	23.49			
1.4	16QAM	3	1	23.32	23.29	23.42	23		
1.4	16QAM	3	3	23.27	23.21	23.23			
1.4	16QAM	6	0	22.21	22.15	22.22			
1.4	64QAM	1	0	22.39	22.46	22.43	23		
1.4	64QAM	1	3	22.29	22.28	22.26			
1.4	64QAM	1	5	22.23	22.31	22.28			
1.4	64QAM	3	0	22.29	22.42	22.39			
1.4	64QAM	3	1	22.25	22.24	22.20			
1.4	64QAM	3	3	22.16	22.27	22.28	22		
1.4	64QAM	6	0	21.25	21.19	21.28			
1.4	64QAM	6	0	21.25	21.19	21.28			



Band 5							
Art 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.	
Channel				20450	20525	20500	
Frequency (MHz)				829	838.5	844	
10	QPSK	1	0	24.40	24.37	24.38	25
10	QPSK	1	25	24.27	24.29	24.30	
10	QPSK	1	49	24.32	24.33	24.28	
10	QPSK	25	0	23.83	23.41	23.40	24
10	QPSK	25	12	23.49	23.41	23.42	
10	QPSK	25	25	23.46	23.44	23.45	
10	QPSK	50	0	23.50	23.50	23.39	24
10	16QAM	1	0	23.77	23.74	23.72	
10	16QAM	1	25	23.69	23.70	23.66	
10	16QAM	1	49	23.69	23.66	23.61	23
10	16QAM	25	0	22.44	22.42	22.40	
10	16QAM	25	12	22.52	22.41	22.39	
10	16QAM	25	25	22.46	22.43	22.40	23
10	16QAM	50	0	22.53	22.46	22.41	
10	64QAM	1	0	22.58	22.58	22.57	
10	64QAM	1	25	22.64	22.63	22.46	23
10	64QAM	1	49	22.56	22.60	22.11	
10	64QAM	25	0	21.44	21.43	21.45	
10	64QAM	25	12	21.55	21.44	21.45	22
10	64QAM	25	25	21.61	21.48	21.08	
10	64QAM	50	0	21.54	21.52	21.32	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				828.5	838.5	846.5	
5	QPSK	1	0	24.34	24.37	24.34	25
5	QPSK	1	12	24.22	24.21	24.22	
5	QPSK	1	24	24.24	24.27	24.26	
5	QPSK	12	0	23.38	23.35	23.35	24
5	QPSK	12	7	23.46	23.31	23.33	
5	QPSK	12	13	23.37	23.39	23.41	
5	QPSK	25	0	23.42	23.43	23.31	24
5	16QAM	1	0	23.73	23.68	23.71	
5	16QAM	1	12	23.68	23.70	23.59	
5	16QAM	1	24	23.64	23.58	23.59	23
5	16QAM	12	0	22.37	22.37	22.33	
5	16QAM	12	7	22.48	22.41	22.33	
5	16QAM	12	13	22.38	22.35	22.33	23
5	16QAM	25	0	22.48	22.38	22.39	
5	64QAM	1	0	22.48	22.58	22.50	
5	64QAM	1	12	22.61	22.58	22.41	23
5	64QAM	1	24	22.54	22.52	22.07	
5	64QAM	12	0	21.38	21.34	21.44	
5	64QAM	12	7	21.55	21.40	21.43	22
5	64QAM	12	13	21.45	21.48	21.05	
5	64QAM	25	0	21.44	21.52	21.25	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	838.5	847.5	
3	QPSK	1	0	24.32	24.27	24.32	25
3	QPSK	1	8	24.19	24.23	24.30	
3	QPSK	1	14	24.28	24.27	24.26	
3	QPSK	8	0	23.42	23.41	23.31	24
3	QPSK	8	4	23.46	23.37	23.35	
3	QPSK	8	7	23.37	23.39	23.35	
3	QPSK	15	0	23.42	23.49	23.36	24
3	16QAM	1	0	23.72	23.66	23.69	
3	16QAM	1	8	23.68	23.65	23.65	
3	16QAM	1	14	23.65	23.59	23.56	23
3	16QAM	8	0	22.44	22.32	22.38	
3	16QAM	8	4	22.51	22.33	22.34	
3	16QAM	8	7	22.46	22.43	22.34	23
3	16QAM	15	0	22.53	22.44	22.37	
3	64QAM	1	0	22.51	22.54	22.47	
3	64QAM	1	8	22.57	22.63	22.44	23
3	64QAM	1	14	22.48	22.50	22.09	
3	64QAM	8	0	21.39	21.40	21.40	
3	64QAM	8	4	21.46	21.43	21.35	22
3	64QAM	8	7	21.61	21.45	21.05	
3	64QAM	15	0	21.45	21.43	21.27	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	838.5	848.3	
1.4	QPSK	1	0	24.30	24.33	24.36	25
1.4	QPSK	1	3	24.20	24.24	24.27	
1.4	QPSK	1	5	24.32	24.29	24.24	
1.4	QPSK	3	0	24.22	24.32	24.32	24
1.4	QPSK	3	1	24.10	24.24	24.27	
1.4	QPSK	3	3	24.29	24.19	24.18	
1.4	QPSK	6	0	23.44	23.41	23.30	24
1.4	16QAM	1	0	23.76	23.71	23.70	
1.4	16QAM	1	3	23.62	23.63	23.56	
1.4	16QAM	1	5	23.63	23.61	23.60	23
1.4	16QAM	3	0	23.76	23.64	23.63	
1.4	16QAM	3	1	23.53	23.65	23.50	
1.4	16QAM	3	3	23.60	23.55	23.54	23
1.4	16QAM	6	0	22.52	22.40	22.40	
1.4	64QAM	1	0	22.52	22.52	22.52	
1.4	64QAM	1	3	22.54	22.57	22.45	23
1.4	64QAM	1	5	22.53	22.50	22.01	
1.4	64QAM	3	0	22.44	22.48	22.50	
1.4	64QAM	3	1	22.51	22.52	22.42	23
1.4	64QAM	3	3	22.52	22.49	21.96	
1.4	64QAM	6	0	21.49	21.50	21.32	



Band 7							
Art 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.	
Channel				2050	2100	2150	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	24.38	24.28	24.28	25
20	QPSK	1	49	24.41	24.30	24.28	
20	QPSK	1	99	24.42	24.40	24.38	
20	QPSK	50	0	23.93	23.40	23.42	24
20	QPSK	50	24	23.55	23.53	23.49	
20	QPSK	50	50	23.48	23.52	23.46	
20	QPSK	100	0	23.54	23.40	23.47	24
20	16QAM	1	0	23.70	23.65	23.64	
20	16QAM	1	49	23.73	23.70	23.67	
20	16QAM	1	99	23.75	23.78	23.72	23
20	16QAM	50	0	22.53	22.38	22.44	
20	16QAM	50	24	22.58	22.50	22.49	
20	16QAM	50	50	22.49	22.53	22.48	23
20	16QAM	100	0	22.53	22.41	22.47	
20	64QAM	1	0	22.61	22.46	22.42	
20	64QAM	1	49	22.65	22.52	22.38	23
20	64QAM	1	99	22.57	22.64	22.29	
20	64QAM	50	0	21.55	21.42	21.20	
20	64QAM	50	24	21.58	21.53	21.31	22
20	64QAM	50	50	21.62	21.54	21.41	
20	64QAM	100	0	21.56	21.44	21.20	
Channel				2085	2100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	24.33	24.23	24.16	25
15	QPSK	1	37	24.36	24.25	24.18	
15	QPSK	1	74	24.37	24.33	24.29	
15	QPSK	36	0	23.47	23.40	23.37	24
15	QPSK	36	20	23.51	23.43	23.43	
15	QPSK	36	39	23.44	23.47	23.43	
15	QPSK	75	0	23.49	23.35	23.41	24
15	16QAM	1	0	23.61	23.63	23.63	
15	16QAM	1	37	23.73	23.65	23.67	
15	16QAM	1	74	23.67	23.71	23.68	23
15	16QAM	36	0	22.48	22.30	22.35	
15	16QAM	36	20	22.55	22.47	22.49	
15	16QAM	36	39	22.39	22.53	22.41	23
15	16QAM	75	0	22.45	22.34	22.38	
15	64QAM	1	0	22.58	22.46	22.33	
15	64QAM	1	37	22.61	22.44	22.28	23
15	64QAM	1	74	22.48	22.60	22.22	
15	64QAM	36	0	21.45	21.38	21.17	
15	64QAM	36	20	21.52	21.43	21.25	22
15	64QAM	36	39	21.48	21.54	21.34	
15	64QAM	75	0	21.54	21.34	21.12	
Channel				2080	2100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	24.28	24.17	24.20	25
10	QPSK	1	25	24.40	24.22	24.23	
10	QPSK	1	49	24.32	24.39	24.35	
10	QPSK	25	0	23.44	23.32	23.34	24
10	QPSK	25	12	23.53	23.45	23.38	
10	QPSK	25	25	23.46	23.45	23.43	
10	QPSK	50	0	23.49	23.31	23.44	24
10	16QAM	1	0	23.65	23.67	23.65	
10	16QAM	1	25	23.73	23.69	23.63	
10	16QAM	1	49	23.68	23.75	23.66	23
10	16QAM	25	0	22.44	22.28	22.41	
10	16QAM	25	12	22.50	22.43	22.48	
10	16QAM	25	25	22.43	22.47	22.40	23
10	16QAM	50	0	22.44	22.38	22.40	
10	64QAM	1	0	22.58	22.40	22.35	
10	64QAM	1	25	22.64	22.45	22.32	23
10	64QAM	1	49	22.55	22.56	22.23	
10	64QAM	25	0	21.49	21.41	21.18	
10	64QAM	25	12	21.57	21.47	21.23	22
10	64QAM	25	25	21.48	21.45	21.34	
10	64QAM	50	0	21.50	21.37	21.14	
Channel				20775	2100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	24.36	24.24	24.21	25
5	QPSK	1	12	24.35	24.24	24.23	
5	QPSK	1	24	24.41	24.39	24.27	
5	QPSK	12	0	23.48	23.36	23.34	24
5	QPSK	12	7	23.47	23.46	23.38	
5	QPSK	12	13	23.48	23.43	23.38	
5	QPSK	25	0	23.50	23.40	23.38	24
5	16QAM	1	0	23.70	23.61	23.59	
5	16QAM	1	12	23.64	23.65	23.57	
5	16QAM	1	24	23.68	23.73	23.70	23
5	16QAM	12	0	22.44	22.32	22.44	
5	16QAM	12	7	22.54	22.42	22.42	
5	16QAM	12	13	22.43	22.47	22.45	23
5	16QAM	25	0	22.48	22.39	22.39	
5	64QAM	1	0	22.53	22.39	22.38	
5	64QAM	1	12	22.60	22.44	22.32	23
5	64QAM	1	24	22.57	22.54	22.29	
5	64QAM	12	0	21.55	21.40	21.11	
5	64QAM	12	7	21.56	21.51	21.22	22
5	64QAM	12	13	21.62	21.52	21.34	
5	64QAM	25	0	21.56	21.38	21.17	



Band 12								
Art 0								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.		
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	24.32	24.27	24.27	25	
10	QPSK	1	25	24.30	24.30	24.33		
10	QPSK	1	49	24.37	24.38	24.31		
10	QPSK	25	0	23.83	23.46	23.43		
10	QPSK	25	12	23.50	23.42	23.45		
10	QPSK	25	25	23.51	23.53	23.50	24	
10	QPSK	50	0	23.52	23.46	23.47		
10	16QAM	1	0	23.73	23.65	23.64		
10	16QAM	1	25	23.70	23.72	23.69		
10	16QAM	1	49	23.77	23.74	23.72		
10	16QAM	25	0	22.44	22.46	22.47	23	
10	16QAM	25	12	22.51	22.47	22.46		
10	16QAM	25	25	22.49	22.51	22.51		
10	16QAM	50	0	22.53	22.47	22.44		
10	16QAM	1	0	22.53	22.47	22.48		
10	64QAM	1	25	22.61	22.64	22.61	23	
10	64QAM	1	49	22.67	22.60	22.60		
10	64QAM	25	0	21.46	21.47	21.48		
10	64QAM	25	12	21.56	21.49	21.49		
10	64QAM	25	25	21.61	21.55	21.53		
10	64QAM	50	0	21.55	21.48	21.48	22	
Channel				23065	23095	23165		Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	24.31	24.28	24.21		25
5	QPSK	1	12	24.22	24.21	24.24		
5	QPSK	1	24	24.36	24.30	24.25		
5	QPSK	12	0	23.40	23.46	23.42		
5	QPSK	12	7	23.46	23.40	23.41		
5	QPSK	12	13	23.48	23.43	23.46	24	
5	QPSK	25	0	23.48	23.42	23.47		
5	16QAM	1	0	23.71	23.63	23.59		
5	16QAM	1	12	23.69	23.62	23.61		
5	16QAM	1	24	23.76	23.72	23.65		
5	16QAM	12	0	22.34	22.38	22.43	23	
5	16QAM	12	7	22.48	22.43	22.43		
5	16QAM	12	13	22.39	22.43	22.45		
5	16QAM	25	0	22.47	22.44	22.36		
5	16QAM	1	0	22.46	22.46	22.46		
5	64QAM	1	12	22.58	22.61	22.57	23	
5	64QAM	1	24	22.63	22.50	22.54		
5	64QAM	12	0	21.38	21.40	21.46		
5	64QAM	12	7	21.55	21.46	21.45		
5	64QAM	12	13	21.46	21.51	21.43		
5	64QAM	25	0	21.49	21.38	21.41	22	
Channel				23065	23095	23165		Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	24.28	24.17	24.21		25
3	QPSK	1	8	24.20	24.29	24.27		
3	QPSK	1	14	24.32	24.28	24.25		
3	QPSK	3	0	23.40	23.38	23.38		
3	QPSK	8	4	23.44	23.41	23.40		
3	QPSK	8	7	23.41	23.42	23.50	24	
3	QPSK	15	0	23.42	23.38	23.38		
3	16QAM	1	0	23.71	23.66	23.63		
3	16QAM	1	8	23.61	23.68	23.63		
3	16QAM	1	14	23.73	23.73	23.72		
3	16QAM	8	0	22.41	22.37	22.41	23	
3	16QAM	8	4	22.42	22.45	22.45		
3	16QAM	8	7	22.46	22.43	22.51		
3	16QAM	15	0	22.51	22.45	22.43		
3	16QAM	1	0	22.46	22.37	22.40		
3	64QAM	1	8	22.56	22.60	22.59	23	
3	64QAM	1	14	22.59	22.51	22.60		
3	64QAM	8	0	21.40	21.37	21.47		
3	64QAM	8	4	21.48	21.43	21.49		
3	64QAM	8	7	21.51	21.54	21.44		
3	64QAM	15	0	21.54	21.45	21.41	22	
Channel				23017	23095	23173		Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	24.29	24.18	24.23		25
1.4	QPSK	1	3	24.24	24.30	24.29		
1.4	QPSK	1	5	24.29	24.28	24.27		
1.4	QPSK	3	0	24.23	24.11	24.15		
1.4	QPSK	3	1	24.14	24.22	24.23		
1.4	QPSK	3	3	24.19	24.18	24.22	24	
1.4	QPSK	6	0	23.51	23.37	23.41		
1.4	16QAM	1	0	23.69	23.60	23.63		
1.4	16QAM	1	3	23.66	23.68	23.65		
1.4	16QAM	1	5	23.75	23.69	23.68		
1.4	16QAM	3	0	23.65	23.50	23.63	23	
1.4	16QAM	3	1	23.62	23.63	23.61		
1.4	16QAM	3	3	23.69	23.62	23.58		
1.4	16QAM	6	0	22.44	22.44	22.35		
1.4	64QAM	1	0	22.48	22.47	22.48		
1.4	64QAM	1	3	22.55	22.61	22.61	23	
1.4	64QAM	1	5	22.58	22.53	22.57		
1.4	64QAM	3	0	22.38	22.40	22.40		
1.4	64QAM	3	1	22.51	22.59	22.52		
1.4	64QAM	3	3	22.58	22.53	22.53		
1.4	64QAM	6	0	21.50	21.38	21.46	22	



Band 13							
Art 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				23230			
Frequency (MHz)				782			
10	GPSK	1	0		24.52		25
10	GPSK	1	25		24.48		
10	GPSK	1	49		24.45		
10	GPSK	25	0		23.54		24
10	GPSK	25	12		23.56		
10	GPSK	25	25		23.61		
10	GPSK	50	0		23.60		24
10	16QAM	1	0		23.79		
10	16QAM	1	25		23.82		
10	16QAM	1	49		23.82		23
10	16QAM	25	0		22.96		
10	16QAM	25	12		22.62		
10	16QAM	25	25		22.63		23
10	16QAM	50	0		22.56		
10	64QAM	1	0		22.74		
10	64QAM	1	25		22.72		23
10	64QAM	1	49		22.75		
10	64QAM	25	0		21.58		
10	64QAM	25	12		21.64		22
10	64QAM	25	25		21.64		
10	64QAM	50	0		21.59		
Channel				23205			
Frequency (MHz)				779.5			
5	GPSK	1	0	24.38	24.36	24.39	25
5	GPSK	1	12	24.43	24.48	24.40	
5	GPSK	1	24	24.47	24.48	24.42	
5	GPSK	12	0	23.53	23.45	23.50	24
5	GPSK	12	7	23.56	23.56	23.47	
5	GPSK	12	13	23.57	23.60	23.54	
5	GPSK	25	0	23.51	23.55	23.59	24
5	16QAM	1	0	23.69	23.74	23.76	
5	16QAM	1	12	23.61	23.72	23.77	
5	16QAM	1	24	23.80	23.72	23.73	23
5	16QAM	12	0	22.61	22.60	22.53	
5	16QAM	12	7	22.54	22.65	22.60	
5	16QAM	12	13	22.61	22.56	22.60	23
5	64QAM	25	0	22.50	22.62	22.56	
5	64QAM	1	0	22.71	22.65	22.72	
5	64QAM	1	12	22.71	22.69	22.64	22
5	64QAM	1	24	22.75	22.65	22.66	
5	64QAM	12	0	21.55	21.50	21.51	
5	64QAM	12	7	21.58	21.63	21.56	22
5	64QAM	12	13	21.63	21.67	21.59	
5	64QAM	25	0	21.59	21.49	21.59	



Band 14							
Art 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				23330			
Frequency (MHz)				793			
10	QPSK	1	0		24.45		25
10	QPSK	1	25		24.40		
10	QPSK	1	49		24.35		
10	QPSK	25	0		23.48		24
10	QPSK	25	12		23.52		
10	QPSK	25	25		23.56		
10	QPSK	50	0		23.48		24
10	16QAM	1	0		23.99		
10	16QAM	1	25		23.76		
10	16QAM	1	49		23.78		23
10	16QAM	25	0		22.90		
10	16QAM	25	12		22.61		
10	16QAM	25	25		22.54		23
10	16QAM	50	0		22.46		
10	64QAM	1	0		22.70		
10	64QAM	1	25		22.76		23
10	64QAM	1	49		22.63		
10	64QAM	25	0		21.53		
10	64QAM	25	12		21.53		22
10	64QAM	25	25		21.59		
10	64QAM	50	0		21.51		
Channel				23305			Tune-up limit (dBm)
Frequency (MHz)				790.5			
5	QPSK	1	0	24.38	24.44	24.43	25
5	QPSK	1	12	24.41	24.36	24.42	
5	QPSK	1	24	24.30	24.27	24.31	
5	QPSK	12	0	23.39	23.43	23.43	24
5	QPSK	12	7	23.49	23.44	23.47	
5	QPSK	12	13	23.55	23.46	23.55	
5	QPSK	25	0	23.42	23.43	23.48	24
5	16QAM	1	0	23.62	23.81	23.87	
5	16QAM	1	12	23.68	23.68	23.69	
5	16QAM	1	24	23.70	23.70	23.78	23
5	16QAM	12	0	22.60	22.41	22.41	
5	16QAM	12	7	22.41	22.60	22.46	
5	16QAM	12	13	22.51	22.49	22.51	23
5	64QAM	1	0	22.41	22.46	22.39	
5	64QAM	1	0	22.70	22.61	22.65	
5	64QAM	1	12	22.75	22.68	22.75	23
5	64QAM	1	24	22.60	22.63	22.54	
5	64QAM	12	0	21.51	21.47	21.46	
5	64QAM	12	7	21.44	21.47	21.47	22
5	64QAM	12	13	21.60	21.54	21.54	
5	64QAM	25	0	21.42	21.49	21.51	



Band 17							
Art 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				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	24.28	24.29	24.25	25
10	QPSK	1	25	24.33	24.32	24.31	
10	QPSK	1	49	24.38	24.37	24.32	
10	QPSK	25	0	23.38	23.38	23.37	24
10	QPSK	25	12	23.54	23.45	23.44	
10	QPSK	25	25	23.54	23.54	23.54	
10	QPSK	50	0	23.52	23.43	23.43	24
10	16QAM	1	0	23.65	23.64	23.64	
10	16QAM	1	25	23.69	23.69	23.71	
10	16QAM	1	49	23.71	23.73	23.70	23
10	16QAM	25	0	22.38	22.39	22.40	
10	16QAM	25	12	22.54	22.45	22.45	
10	16QAM	25	25	22.54	22.58	22.51	23
10	16QAM	50	0	22.52	22.43	22.41	
10	64QAM	1	0	22.56	22.51	22.53	
10	64QAM	1	25	22.64	22.64	22.66	23
10	64QAM	1	49	22.64	22.64	22.62	
10	64QAM	25	0	21.43	21.42	21.43	
10	64QAM	25	12	21.58	21.59	21.49	22
10	64QAM	25	25	21.57	21.55	21.57	
10	64QAM	50	0	21.54	21.46	21.44	
Channel				23765	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.20	24.23	24.22	25
5	QPSK	1	12	24.23	24.32	24.28	
5	QPSK	1	24	24.31	24.33	24.27	
5	QPSK	12	0	23.33	23.38	23.31	24
5	QPSK	12	7	23.48	23.45	23.43	
5	QPSK	12	13	23.48	23.53	23.45	
5	QPSK	25	0	23.51	23.38	23.39	24
5	16QAM	1	0	23.63	23.62	23.59	
5	16QAM	1	12	23.68	23.61	23.66	
5	16QAM	1	24	23.68	23.73	23.65	23
5	16QAM	12	0	22.34	22.29	22.31	
5	16QAM	12	7	22.44	22.35	22.45	
5	16QAM	12	13	22.54	22.55	22.45	23
5	16QAM	25	0	22.42	22.40	22.35	
5	64QAM	1	0	22.46	22.44	22.53	
5	64QAM	1	12	22.60	22.54	22.62	23
5	64QAM	1	24	22.61	22.54	22.54	
5	64QAM	12	0	21.35	21.36	21.37	
5	64QAM	12	7	21.49	21.49	21.46	22
5	64QAM	12	13	21.65	21.47	21.54	
5	64QAM	25	0	21.52	21.42	21.43	



Band 25							
Art 2							
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.	
Channel				26140	26340	26590	
Frequency (MHz)				1860	1880	1905	
20	QPSK	1	0	24.60	24.62	24.52	25
20	QPSK	1	49	24.52	24.58	24.39	
20	QPSK	1	99	24.46	24.55	24.30	
20	QPSK	50	0	23.84	23.89	23.59	24
20	QPSK	50	24	23.73	23.77	23.58	
20	QPSK	50	50	23.66	23.71	23.52	
20	QPSK	100	0	23.71	23.65	23.58	24
20	16QAM	1	0	23.96	23.97	23.94	
20	16QAM	1	49	23.88	23.94	23.76	
20	16QAM	1	99	23.82	23.92	23.66	23
20	16QAM	50	0	22.65	22.71	22.61	
20	16QAM	50	24	22.72	22.79	22.57	
20	16QAM	50	50	22.67	22.71	22.53	23
20	16QAM	100	0	22.71	22.67	22.60	
20	64QAM	1	0	22.78	22.83	22.77	
20	64QAM	1	49	22.78	22.78	22.62	23
20	64QAM	1	99	22.70	22.80	22.30	
20	64QAM	50	0	21.68	21.73	21.63	
20	64QAM	50	24	21.74	21.82	21.61	22
20	64QAM	50	50	21.68	21.74	21.56	
20	64QAM	100	0	21.72	21.70	21.67	
Channel				26115	26340	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1907.5	
15	QPSK	1	0	24.52	24.60	24.45	25
15	QPSK	1	37	24.50	24.56	24.36	
15	QPSK	1	74	24.42	24.47	24.26	
15	QPSK	36	0	23.62	23.69	23.59	24
15	QPSK	36	20	23.67	23.77	23.49	
15	QPSK	36	39	23.57	23.67	23.52	
15	QPSK	75	0	23.71	23.60	23.50	24
15	16QAM	1	0	23.86	23.90	23.80	
15	16QAM	1	37	23.79	23.93	23.72	
15	16QAM	1	74	23.82	23.88	23.64	23
15	16QAM	36	0	22.61	22.63	22.57	
15	16QAM	36	20	22.63	22.77	22.48	
15	16QAM	36	39	22.63	22.66	22.45	23
15	16QAM	75	0	22.66	22.60	22.51	
15	64QAM	1	0	22.78	22.82	22.72	
15	64QAM	1	37	22.69	22.74	22.61	23
15	64QAM	1	74	22.64	22.71	22.30	
15	64QAM	36	0	21.62	21.64	21.54	
15	64QAM	36	20	21.68	21.62	21.60	22
15	64QAM	36	39	21.68	21.74	21.53	
15	64QAM	75	0	21.65	21.64	21.55	
Channel				26090	26340	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1910	
10	QPSK	1	0	24.56	24.60	24.43	25
10	QPSK	1	25	24.44	24.48	24.34	
10	QPSK	1	49	24.46	24.47	24.26	
10	QPSK	25	0	23.65	23.67	23.59	24
10	QPSK	25	12	23.69	23.70	23.54	
10	QPSK	25	25	23.59	23.69	23.47	
10	QPSK	50	0	23.63	23.63	23.56	24
10	16QAM	1	0	23.95	23.87	23.74	
10	16QAM	1	25	23.84	23.92	23.67	
10	16QAM	1	49	23.80	23.87	23.64	23
10	16QAM	25	0	22.60	22.66	22.61	
10	16QAM	25	12	22.63	22.75	22.57	
10	16QAM	25	25	22.66	22.69	22.45	23
10	16QAM	50	0	22.68	22.50	22.50	
10	64QAM	1	0	22.72	22.76	22.68	
10	64QAM	1	25	22.72	22.70	22.62	23
10	64QAM	1	49	22.69	22.73	22.29	
10	64QAM	25	0	21.63	21.64	21.57	
10	64QAM	25	12	21.66	21.74	21.59	22
10	64QAM	25	25	21.68	21.70	21.54	
10	64QAM	50	0	21.71	21.70	21.48	
Channel				26065	26340	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1912.5	
5	QPSK	1	0	24.54	24.61	24.48	25
5	QPSK	1	12	24.49	24.51	24.33	
5	QPSK	1	24	24.37	24.54	24.27	
5	QPSK	12	0	23.56	23.67	23.59	24
5	QPSK	12	7	23.72	23.76	23.56	
5	QPSK	12	13	23.84	23.71	23.52	
5	QPSK	25	0	23.69	23.59	23.55	24
5	16QAM	1	0	23.89	23.95	23.83	
5	16QAM	1	12	23.81	23.94	23.68	
5	16QAM	1	24	23.73	23.82	23.62	23
5	16QAM	12	0	22.62	22.71	22.53	
5	16QAM	12	7	22.64	22.69	22.48	
5	16QAM	12	13	22.67	22.66	22.49	23
5	16QAM	25	0	22.70	22.57	22.51	
5	64QAM	1	0	22.76	22.80	22.72	
5	64QAM	1	12	22.70	22.72	22.54	23
5	64QAM	1	24	22.63	22.71	22.26	
5	64QAM	12	0	21.68	21.69	21.58	
5	64QAM	12	7	21.67	21.79	21.59	22
5	64QAM	12	13	21.68	21.66	21.56	
5	64QAM	25	0	21.72	21.65	21.48	
Channel				26047	26340	26683	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1914.3	
1.4	QPSK	1	0	24.55	24.60	24.52	25
1.4	QPSK	1	3	24.46	24.50	24.39	
1.4	QPSK	1	5	24.38	24.47	24.30	
1.4	QPSK	3	0	24.57	24.53	24.45	24
1.4	QPSK	3	1	24.44	24.52	24.31	
1.4	QPSK	3	3	24.40	24.51	24.29	
1.4	QPSK	6	0	23.71	23.58	23.50	24
1.4	16QAM	1	0	23.86	23.88	23.80	
1.4	16QAM	1	3	23.81	23.94	23.66	
1.4	16QAM	1	5	23.78	23.84	23.65	24
1.4	16QAM	3	0	23.69	23.72	23.48	
1.4	16QAM	3	1	23.66	23.63	23.52	
1.4	16QAM	3	3	23.69	23.60	23.53	23
1.4	16QAM	6	0	22.71	22.63	22.54	
1.4	64QAM	1	0	22.70	22.83	22.67	
1.4	64QAM	1	3	22.71	22.68	22.62	23
1.4	64QAM	1	5	22.68	22.73	22.29	
1.4	64QAM	3	0	22.62	22.65	22.55	
1.4	64QAM	3	1	22.62	22.78	22.48	23
1.4	64QAM	3	3	22.68	22.71	22.44	
1.4	64QAM	6	0	21.62	21.61	21.57	



Band 26							
Art 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.	
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	24.39	24.31	24.28	25
15	QPSK	1	37	24.30	24.29	24.28	
15	QPSK	1	74	24.32	24.29	24.17	
15	QPSK	36	0	23.46	23.41	23.42	24
15	QPSK	36	20	23.54	23.45	23.48	
15	QPSK	36	39	23.47	23.44	23.40	
15	QPSK	75	0	23.50	23.39	23.41	24
15	16QAM	1	0	23.68	23.60	23.62	
15	16QAM	1	37	23.62	23.63	23.61	
15	16QAM	1	74	23.64	23.59	23.47	23
15	16QAM	36	0	22.49	22.44	22.45	
15	16QAM	36	20	22.51	22.43	22.47	
15	16QAM	36	39	22.49	22.46	22.42	23
15	16QAM	75	0	22.63	22.38	22.42	
15	64QAM	1	0	22.52	22.49	22.46	
15	64QAM	1	37	22.58	22.54	22.52	23
15	64QAM	1	74	22.57	22.55	22.05	
15	64QAM	36	0	21.50	21.50	21.49	
15	64QAM	36	20	21.53	21.44	21.51	22
15	64QAM	36	39	21.61	21.51	21.47	
15	64QAM	75	0	21.53	21.44	21.45	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	24.29	24.23	24.27	25
10	QPSK	1	25	24.25	24.27	24.27	
10	QPSK	1	49	24.26	24.21	24.17	
10	QPSK	25	0	23.41	23.42	23.36	24
10	QPSK	25	12	23.49	23.38	23.43	
10	QPSK	25	25	23.42	23.39	23.36	
10	QPSK	50	0	23.43	23.33	23.39	24
10	16QAM	1	0	23.60	23.60	23.57	
10	16QAM	1	25	23.64	23.64	23.53	
10	16QAM	1	49	23.62	23.53	23.42	23
10	16QAM	25	0	22.41	22.38	22.40	
10	16QAM	25	12	22.44	22.37	22.47	
10	16QAM	25	25	22.49	22.40	22.41	23
10	16QAM	50	0	22.49	22.38	22.35	
10	64QAM	1	0	22.45	22.41	22.46	
10	64QAM	1	25	22.49	22.54	22.47	23
10	64QAM	1	49	22.54	22.48	22.03	
10	64QAM	25	0	21.50	21.48	21.49	
10	64QAM	25	12	21.44	21.43	21.51	22
10	64QAM	25	25	21.48	21.45	21.37	
10	64QAM	50	0	21.43	21.44	21.38	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	24.29	24.27	24.19	25
5	QPSK	1	12	24.23	24.28	24.18	
5	QPSK	1	24	24.32	24.30	24.17	
5	QPSK	12	0	23.42	23.47	23.38	24
5	QPSK	12	7	23.51	23.41	23.45	
5	QPSK	12	13	23.47	23.37	23.30	
5	QPSK	25	0	23.43	23.37	23.40	24
5	16QAM	1	0	23.68	23.63	23.59	
5	16QAM	1	12	23.64	23.65	23.56	
5	16QAM	1	24	23.66	23.58	23.44	23
5	16QAM	12	0	22.42	22.35	22.37	
5	16QAM	12	7	22.49	22.42	22.41	
5	16QAM	12	13	22.46	22.41	22.42	23
5	16QAM	25	0	22.52	22.41	22.38	
5	64QAM	1	0	22.43	22.45	22.45	
5	64QAM	1	12	22.54	22.53	22.47	23
5	64QAM	1	24	22.55	22.54	21.95	
5	64QAM	12	0	21.47	21.46	21.41	
5	64QAM	12	7	21.52	21.39	21.48	22
5	64QAM	12	13	21.48	21.45	21.45	
5	64QAM	25	0	21.51	21.35	21.38	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	24.28	24.22	24.24	25
3	QPSK	1	8	24.24	24.25	24.27	
3	QPSK	1	14	24.30	24.29	24.16	
3	QPSK	8	0	23.45	23.42	23.32	24
3	QPSK	8	4	23.53	23.36	23.41	
3	QPSK	8	7	23.47	23.37	23.37	
3	QPSK	15	0	23.43	23.34	23.37	24
3	16QAM	1	0	23.64	23.59	23.56	
3	16QAM	1	8	23.67	23.65	23.61	
3	16QAM	1	14	23.61	23.55	23.41	23
3	16QAM	8	0	22.44	22.40	22.43	
3	16QAM	8	4	22.42	22.36	22.46	
3	16QAM	8	7	22.49	22.40	22.32	23
3	16QAM	15	0	22.51	22.33	22.38	
3	64QAM	1	0	22.44	22.40	22.42	
3	64QAM	1	8	22.50	22.48	22.43	23
3	64QAM	1	14	22.57	22.49	21.97	
3	64QAM	8	0	21.45	21.48	21.40	
3	64QAM	8	4	21.47	21.41	21.44	22
3	64QAM	8	7	21.49	21.44	21.42	
3	64QAM	15	0	21.43	21.44	21.38	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	24.26	24.21	24.25	25
1.4	QPSK	1	3	24.25	24.27	24.25	
1.4	QPSK	1	5	24.29	24.25	24.15	
1.4	QPSK	3	0	23.33	23.415	23.30	24
1.4	QPSK	3	1	24.19	24.17	24.16	
1.4	QPSK	3	3	24.27	24.25	24.05	
1.4	QPSK	6	0	23.46	23.38	23.35	24
1.4	16QAM	1	0	23.66	23.60	23.60	
1.4	16QAM	1	3	23.62	23.63	23.61	
1.4	16QAM	1	5	23.64	23.56	23.45	24
1.4	16QAM	3	0	23.58	23.46	23.54	
1.4	16QAM	3	1	23.60	23.63	23.61	
1.4	16QAM	3	3	23.61	23.55	23.40	23
1.4	16QAM	6	0	22.50	22.35	22.42	
1.4	64QAM	1	0	22.42	22.49	22.45	
1.4	64QAM	1	3	22.51	22.49	22.43	23
1.4	64QAM	1	5	22.47	22.54	22.05	
1.4	64QAM	3	0	22.33	22.47	22.38	
1.4	64QAM	3	1	22.45	22.42	22.42	23
1.4	64QAM	3	3	22.37	22.47	21.95	
1.4	64QAM	6	0	21.52	21.36	21.40	



Band 30							
Art 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				27710			
Frequency (MHz)				2310			
10	QPSK	1	0	24.48			25
10	QPSK	1	25	24.38			
10	QPSK	1	49	24.36			
10	QPSK	25	0	23.42			24
10	QPSK	25	12	23.48			
10	QPSK	25	25	23.49			
10	QPSK	50	0	23.46			24
10	16QAM	1	0	23.76			
10	16QAM	1	25	23.77			
10	16QAM	1	49	23.74			23
10	16QAM	25	0	22.42			
10	16QAM	25	12	22.47			
10	16QAM	25	25	22.49			23
10	16QAM	50	0	22.44			
10	64QAM	1	0	22.58			
10	64QAM	1	25	22.70			23
10	64QAM	1	49	22.54			
10	64QAM	25	0	21.44			
10	64QAM	25	12	21.51			22
10	64QAM	25	25	21.50			
10	64QAM	50	0	21.51			
Channel				27685	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	24.42	24.38	24.46	25
5	QPSK	1	12	24.35	24.35	24.35	
5	QPSK	1	24	24.29	24.29	24.33	
5	QPSK	12	0	23.35	23.33	23.35	24
5	QPSK	12	7	23.38	23.39	23.48	
5	QPSK	12	13	23.40	23.43	23.46	
5	QPSK	25	0	23.40	23.45	23.44	24
5	16QAM	1	0	23.74	23.70	23.74	
5	16QAM	1	12	23.75	23.76	23.70	
5	16QAM	1	24	23.71	23.69	23.70	23
5	16QAM	12	0	22.32	22.39	22.34	
5	16QAM	12	7	22.42	22.44	22.47	
5	16QAM	12	13	22.49	22.42	22.43	23
5	16QAM	25	0	22.40	22.43	22.41	
5	64QAM	1	0	22.58	22.48	22.57	
5	64QAM	1	12	22.68	22.70	22.61	23
5	64QAM	1	24	22.44	22.45	22.47	
5	64QAM	12	0	21.35	21.38	21.37	
5	64QAM	12	7	21.43	21.43	21.42	22
5	64QAM	12	13	21.45	21.47	21.42	
5	64QAM	25	0	21.51	21.45	21.47	



Band 66							
Art 2							
Bandwidth [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.	Tune-up limit (dBm)
Channel				13072	13232	13572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.83	23.92	23.94	25
20	QPSK	1	49	23.77	23.89	23.83	
20	QPSK	1	99	23.78	23.82	23.75	
20	QPSK	50	0	23.19	23.29	23.25	24
20	QPSK	50	24	23.25	23.26	23.30	
20	QPSK	50	50	23.20	23.30	23.23	
20	QPSK	100	0	23.21	23.23	23.32	
20	16QAM	1	0	23.41	23.59	23.50	24
20	16QAM	1	49	23.41	23.52	23.46	
20	16QAM	1	99	23.46	23.43	23.35	
20	16QAM	50	0	22.19	22.30	22.28	23
20	16QAM	50	24	22.25	22.26	22.33	
20	16QAM	50	50	22.22	22.28	22.26	
20	16QAM	100	0	22.21	22.25	22.33	
20	64QAM	1	0	22.51	22.44	22.44	23
20	64QAM	1	49	22.26	22.32	22.35	
20	64QAM	1	99	22.32	22.33	22.13	
20	64QAM	50	0	21.21	21.17	21.30	
20	64QAM	50	24	21.27	21.30	21.33	22
20	64QAM	50	50	21.23	21.30	21.25	
20	64QAM	100	0	21.25	21.28	21.33	
Channel				13097	13232	13267	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.73	23.82	23.87	25
15	QPSK	1	37	23.74	23.87	23.76	
15	QPSK	1	74	23.74	23.74	23.65	
15	QPSK	36	0	23.09	23.25	23.24	24
15	QPSK	36	20	23.22	23.19	23.20	
15	QPSK	36	39	23.14	23.28	23.16	
15	QPSK	75	0	23.17	23.21	23.23	
15	16QAM	1	0	23.32	23.49	23.55	24
15	16QAM	1	37	23.34	23.48	23.38	
15	16QAM	1	74	23.39	23.38	23.25	
15	16QAM	36	0	22.16	22.23	22.25	23
15	16QAM	36	20	22.21	22.17	22.27	
15	16QAM	36	39	22.16	22.18	22.21	
15	16QAM	75	0	22.17	22.16	22.25	
15	64QAM	1	0	22.29	22.42	22.38	23
15	64QAM	1	37	22.17	22.24	22.28	
15	64QAM	1	74	22.31	22.29	22.11	
15	64QAM	36	0	21.13	21.16	21.29	
15	64QAM	36	20	21.26	21.25	21.24	22
15	64QAM	36	39	21.16	21.38	21.25	
15	64QAM	75	0	21.16	21.20	21.26	
Channel				13022	13232	13262	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.80	23.81	23.88	25
10	QPSK	1	25	23.68	23.84	23.75	
10	QPSK	1	49	23.72	23.73	23.75	
10	QPSK	25	0	23.18	23.25	23.25	24
10	QPSK	25	12	23.25	23.22	23.29	
10	QPSK	25	25	23.13	23.24	23.23	
10	QPSK	50	0	23.17	23.14	23.30	
10	16QAM	1	0	23.34	23.54	23.54	24
10	16QAM	1	25	23.37	23.50	23.41	
10	16QAM	1	49	23.43	23.33	23.34	
10	16QAM	25	0	22.19	22.29	22.28	23
10	16QAM	25	12	22.21	22.23	22.27	
10	16QAM	25	25	22.22	22.18	22.25	
10	16QAM	50	0	22.17	22.20	22.23	
10	64QAM	1	0	22.30	22.34	22.36	23
10	64QAM	1	25	22.18	22.25	22.28	
10	64QAM	1	49	22.22	22.25	22.04	
10	64QAM	25	0	21.13	21.12	21.25	
10	64QAM	25	12	21.20	21.25	21.24	22
10	64QAM	25	25	21.14	21.28	21.25	
10	64QAM	50	0	21.16	21.28	21.23	
Channel				13197	13232	13267	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.79	23.87	23.89	25
5	QPSK	1	12	23.70	23.85	23.78	
5	QPSK	1	24	23.74	23.77	23.70	
5	QPSK	12	0	23.12	23.23	23.21	24
5	QPSK	12	7	23.19	23.17	23.20	
5	QPSK	12	13	23.17	23.26	23.17	
5	QPSK	25	0	23.15	23.17	23.22	
5	16QAM	1	0	23.34	23.55	23.50	24
5	16QAM	1	12	23.38	23.46	23.38	
5	16QAM	1	24	23.40	23.33	23.25	
5	16QAM	12	0	22.18	22.27	22.28	23
5	16QAM	12	7	22.25	22.19	22.24	
5	16QAM	12	13	22.12	22.19	22.18	
5	16QAM	25	0	22.13	22.23	22.24	
5	64QAM	1	0	22.30	22.34	22.36	23
5	64QAM	1	12	22.22	22.23	22.35	
5	64QAM	1	24	22.24	22.28	22.13	
5	64QAM	12	0	21.19	21.15	21.22	
5	64QAM	12	7	21.22	21.30	21.25	22
5	64QAM	12	13	21.21	21.22	21.25	
5	64QAM	25	0	21.24	21.19	21.32	
Channel				13197	13232	13265	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.80	23.84	23.91	25
1.4	QPSK	1	3	23.73	23.85	23.81	
1.4	QPSK	1	5	23.74	23.76	23.70	
1.4	QPSK	3	0	23.60	23.69	23.81	24
1.4	QPSK	3	1	23.68	23.78	23.74	
1.4	QPSK	3	3	23.65	23.70	23.69	
1.4	QPSK	6	0	23.14	23.15	23.22	
1.4	16QAM	1	0	23.38	23.58	23.51	24
1.4	16QAM	1	3	23.37	23.52	23.41	
1.4	16QAM	1	5	23.46	23.33	23.32	
1.4	16QAM	3	0	23.38	23.54	23.44	23
1.4	16QAM	3	1	23.33	23.44	23.36	
1.4	16QAM	3	3	23.38	23.28	23.28	
1.4	16QAM	6	0	22.12	22.20	22.23	
1.4	64QAM	1	0	22.26	22.35	22.40	23
1.4	64QAM	1	3	22.22	22.22	22.26	
1.4	64QAM	1	5	22.22	22.31	22.12	
1.4	64QAM	3	0	22.19	22.29	22.37	
1.4	64QAM	3	1	22.14	22.13	22.23	22
1.4	64QAM	3	3	22.21	22.34	22.10	
1.4	64QAM	6	0	21.24	21.27	21.32	



Band 71							
Art 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)
				Low Ch. Freq.	Middle Ch. Freq.	High Ch. Freq.	
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	24.41	24.33	24.29	25
20	QPSK	1	49	24.30	24.32	24.32	
20	QPSK	1	99	24.34	24.33	24.28	
20	QPSK	50	0	23.98	23.45	23.45	24
20	QPSK	50	24	23.53	23.43	23.44	
20	QPSK	50	50	23.49	23.41	23.40	
20	QPSK	100	0	23.50	23.46	23.43	24
20	16QAM	1	0	23.77	23.66	23.61	
20	16QAM	1	49	23.65	23.69	23.67	
20	16QAM	1	99	23.67	23.70	23.69	23
20	16QAM	50	0	22.47	22.40	22.40	
20	16QAM	50	24	22.50	22.43	22.43	
20	16QAM	50	50	22.50	22.52	22.51	23
20	16QAM	100	0	22.48	22.42	22.47	
20	64QAM	1	0	22.98	22.44	22.45	
20	64QAM	1	49	22.54	22.54	22.55	23
20	64QAM	1	99	22.58	22.57	22.50	
20	64QAM	50	0	21.48	21.41	21.41	
20	64QAM	50	24	21.53	21.48	21.47	22
20	64QAM	50	50	21.49	21.54	21.55	
20	64QAM	100	0	21.52	21.41	21.48	
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.35	24.19	24.27	25
15	QPSK	1	37	24.23	24.29	24.26	
15	QPSK	1	74	24.34	24.28	24.20	
15	QPSK	36	0	23.99	23.31	23.33	24
15	QPSK	36	20	23.46	23.40	23.41	
15	QPSK	36	39	23.49	23.43	23.45	
15	QPSK	75	0	23.40	23.36	23.45	24
15	16QAM	1	0	23.73	23.62	23.53	
15	16QAM	1	37	23.68	23.63	23.59	
15	16QAM	1	74	23.66	23.69	23.51	23
15	16QAM	36	0	22.38	22.34	22.33	
15	16QAM	36	20	22.40	22.38	22.40	
15	16QAM	36	39	22.42	22.44	22.43	23
15	16QAM	75	0	22.45	22.40	22.45	
15	64QAM	1	0	22.53	22.36	22.45	
15	64QAM	1	37	22.45	22.54	22.54	23
15	64QAM	1	74	22.52	22.52	22.40	
15	64QAM	36	0	21.39	21.35	21.33	
15	64QAM	36	20	21.52	21.48	21.40	22
15	64QAM	36	39	21.41	21.54	21.50	
15	64QAM	75	0	21.45	21.32	21.48	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	24.32	24.26	24.27	25
10	QPSK	1	25	24.27	24.31	24.25	
10	QPSK	1	49	24.28	24.23	24.21	
10	QPSK	25	0	23.99	23.34	23.33	24
10	QPSK	25	12	23.51	23.38	23.36	
10	QPSK	25	25	23.47	23.43	23.45	
10	QPSK	50	0	23.41	23.34	23.42	24
10	16QAM	1	0	23.69	23.67	23.54	
10	16QAM	1	25	23.69	23.65	23.67	
10	16QAM	1	49	23.69	23.63	23.67	23
10	16QAM	25	0	22.42	22.40	22.40	
10	16QAM	25	12	22.43	22.39	22.43	
10	16QAM	25	25	22.43	22.43	22.50	23
10	16QAM	50	0	22.48	22.40	22.45	
10	64QAM	1	0	22.48	22.36	22.40	
10	64QAM	1	25	22.50	22.52	22.50	23
10	64QAM	1	49	22.58	22.53	22.49	
10	64QAM	25	0	21.42	21.41	21.37	
10	64QAM	25	12	21.48	21.48	21.42	22
10	64QAM	25	25	21.39	21.48	21.46	
10	64QAM	50	0	21.50	21.36	21.48	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	24.36	24.21	24.19	25
5	QPSK	1	12	24.24	24.27	24.29	
5	QPSK	1	24	24.28	24.23	24.21	
5	QPSK	12	0	23.42	23.37	23.36	24
5	QPSK	12	7	23.51	23.36	23.43	
5	QPSK	12	13	23.44	23.42	23.47	
5	QPSK	25	0	23.45	23.35	23.40	24
5	16QAM	1	0	23.72	23.61	23.54	
5	16QAM	1	12	23.68	23.69	23.67	
5	16QAM	1	24	23.68	23.62	23.55	23
5	16QAM	12	0	22.44	22.38	22.38	
5	16QAM	12	7	22.45	22.33	22.33	
5	16QAM	12	13	22.43	22.51	22.48	23
5	16QAM	25	0	22.41	22.39	22.40	
5	64QAM	1	0	22.48	22.36	22.40	
5	64QAM	1	12	22.47	22.52	22.55	23
5	64QAM	1	24	22.54	22.47	22.48	
5	64QAM	12	0	21.48	21.36	21.36	
5	64QAM	12	7	21.45	21.47	21.44	22
5	64QAM	12	13	21.45	21.47	21.53	
5	64QAM	25	0	21.42	21.37	21.48	



Band 5							
Art 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				20450	20525	20600	
Frequency (MHz)				826	836.5	844	
10	QPSK	1	0	24.29	24.26	24.33	25
10	QPSK	1	25	24.18	24.17	24.22	
10	QPSK	1	49	24.19	24.23	24.13	
10	QPSK	25	0	23.30	23.32	23.30	24
10	QPSK	25	12	23.38	23.31	23.30	
10	QPSK	25	25	23.34	23.36	23.35	
10	QPSK	50	0	23.39	23.39	23.32	24
10	16QAM	1	0	23.66	23.63	23.61	
10	16QAM	1	25	23.58	23.59	23.57	
10	16QAM	1	49	23.66	23.56	23.53	23
10	16QAM	25	0	22.32	22.33	22.26	
10	16QAM	25	12	22.39	22.29	22.30	
10	16QAM	25	25	22.36	22.35	22.36	23
10	16QAM	50	0	22.39	22.37	22.30	
10	64QAM	1	0	22.50	22.50	22.46	
10	64QAM	1	25	22.54	22.57	22.53	23
10	64QAM	1	49	22.48	22.51	21.71	
10	64QAM	25	0	21.34	21.35	21.33	
10	64QAM	25	12	21.42	21.38	21.36	22
10	64QAM	25	25	21.38	21.40	21.13	
10	64QAM	50	0	21.45	21.44	21.21	
Channel				20452	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.24	24.22	24.19	25
5	QPSK	1	12	24.11	24.16	24.16	
5	QPSK	1	24	24.19	24.14	24.12	
5	QPSK	12	0	23.24	23.27	23.24	24
5	QPSK	12	7	23.35	23.31	23.29	
5	QPSK	12	13	23.30	23.30	23.33	
5	QPSK	25	0	23.31	23.38	23.26	24
5	16QAM	1	0	23.64	23.60	23.60	
5	16QAM	1	12	23.50	23.53	23.56	
5	16QAM	1	24	23.66	23.56	23.53	23
5	16QAM	12	0	22.32	22.32	22.21	
5	16QAM	12	7	22.30	22.28	22.23	
5	16QAM	12	13	22.26	22.30	22.36	23
5	16QAM	25	0	22.34	22.34	22.27	
5	64QAM	1	0	22.44	22.43	22.38	
5	64QAM	1	12	22.45	22.53	22.47	23
5	64QAM	1	24	22.45	22.49	21.61	
5	64QAM	12	0	21.28	21.35	21.29	
5	64QAM	12	7	21.33	21.32	21.28	22
5	64QAM	12	13	21.33	21.31	21.09	
5	64QAM	25	0	21.41	21.38	21.16	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.25	24.25	24.29	25
3	QPSK	1	8	24.12	24.13	24.21	
3	QPSK	1	14	24.13	24.14	24.10	
3	QPSK	8	0	23.26	23.26	23.29	24
3	QPSK	8	4	23.30	23.25	23.26	
3	QPSK	8	7	23.24	23.34	23.26	
3	QPSK	15	0	23.31	23.29	23.22	24
3	16QAM	1	0	23.62	23.54	23.54	
3	16QAM	1	8	23.48	23.54	23.50	
3	16QAM	1	14	23.56	23.54	23.50	23
3	16QAM	8	0	22.29	22.30	22.25	
3	16QAM	8	4	22.38	22.22	22.25	
3	16QAM	8	7	22.30	22.35	22.37	23
3	16QAM	15	0	22.37	22.36	22.29	
3	64QAM	1	0	22.47	22.44	22.37	
3	64QAM	1	8	22.48	22.57	22.53	23
3	64QAM	1	14	22.45	22.45	21.66	
3	64QAM	8	0	21.29	21.29	21.27	
3	64QAM	8	4	21.38	21.32	21.33	22
3	64QAM	8	7	21.31	21.37	21.06	
3	64QAM	15	0	21.43	21.37	21.12	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.27	24.26	24.21	25
1.4	QPSK	1	3	24.13	24.16	24.21	
1.4	QPSK	1	5	24.16	24.18	24.13	
1.4	QPSK	3	0	24.19	24.26	24.12	24
1.4	QPSK	3	1	24.03	24.09	24.13	
1.4	QPSK	3	3	24.15	24.17	24.04	
1.4	QPSK	6	0	23.33	23.30	23.26	24
1.4	16QAM	1	0	23.66	23.56	23.52	
1.4	16QAM	1	3	23.49	23.51	23.47	
1.4	16QAM	1	5	23.49	23.49	23.46	24
1.4	16QAM	3	0	23.61	23.46	23.50	
1.4	16QAM	3	1	23.43	23.47	23.40	
1.4	16QAM	3	3	23.42	23.47	23.44	23
1.4	16QAM	6	0	22.31	22.30	22.29	
1.4	64QAM	1	0	22.43	22.46	22.40	
1.4	64QAM	1	3	22.47	22.55	22.52	23
1.4	64QAM	1	5	22.39	22.49	21.66	
1.4	64QAM	3	0	22.42	22.37	22.34	
1.4	64QAM	3	1	22.44	22.47	22.42	23
1.4	64QAM	3	3	22.36	22.44	21.60	
1.4	64QAM	6	0	21.35	21.38	21.14	



Band 7							
Arif 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				2050	2100	2350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	24.70	24.74	23.54	25
20	QPSK	1	49	24.77	24.83	23.48	
20	QPSK	1	99	24.88	24.98	24.50	
20	QPSK	50	0	23.88	23.91	22.23	24
20	QPSK	50	24	23.94	24.04	22.65	
20	QPSK	50	50	23.88	23.95	23.66	
20	QPSK	100	0	23.94	23.99	22.86	24
20	16QAM	1	0	23.98	23.97	22.82	
20	16QAM	1	49	23.93	23.90	22.67	
20	16QAM	1	99	23.80	23.83	23.75	23
20	16QAM	50	0	22.88	22.93	21.26	
20	16QAM	50	24	22.95	22.98	21.68	
20	16QAM	50	50	22.90	22.86	22.65	23
20	16QAM	100	0	22.92	22.99	21.96	
20	64QAM	1	0	22.93	22.81	21.02	
20	64QAM	1	49	22.81	22.86	21.68	23
20	64QAM	1	99	22.88	22.70	21.78	
20	64QAM	50	0	21.90	21.95	20.32	
20	64QAM	50	24	21.97	21.82	20.82	22
20	64QAM	50	50	21.51	21.94	20.60	
20	64QAM	100	0	21.78	21.81	20.16	
Channel				2052	2100	2375	
Frequency (MHz)				2507.5	2535	2592.5	
15	QPSK	1	0	24.65	24.71	23.46	25
15	QPSK	1	37	24.67	24.77	23.45	
15	QPSK	1	74	24.80	24.94	24.47	
15	QPSK	36	0	23.87	23.85	22.16	24
15	QPSK	36	23	23.80	23.90	22.65	
15	QPSK	36	39	23.85	23.93	23.64	
15	QPSK	75	0	23.84	23.85	22.78	24
15	16QAM	1	0	23.96	23.91	22.80	
15	16QAM	1	37	23.85	23.88	22.62	
15	16QAM	1	74	23.78	23.74	23.67	23
15	16QAM	36	0	22.83	22.87	21.27	
15	16QAM	36	20	22.93	22.90	21.68	
15	16QAM	36	39	22.86	22.77	22.58	23
15	16QAM	75	0	22.89	22.90	21.93	
15	64QAM	1	0	22.83	22.52	21.89	
15	64QAM	1	37	22.81	22.81	21.65	23
15	64QAM	1	74	22.85	22.61	21.78	
15	64QAM	36	0	21.88	21.94	20.24	
15	64QAM	36	20	21.96	21.85	20.53	22
15	64QAM	36	39	21.44	21.88	20.57	
15	64QAM	75	0	21.78	21.75	20.13	
Channel				2050	2100	2400	
Frequency (MHz)				2505	2535	2595	
10	QPSK	1	0	24.64	24.72	23.44	25
10	QPSK	1	25	24.73	24.77	23.41	
10	QPSK	1	49	24.81	24.94	24.48	
10	QPSK	25	0	23.79	23.84	22.20	24
10	QPSK	25	12	23.80	23.90	22.59	
10	QPSK	25	25	23.78	23.92	23.64	
10	QPSK	50	0	23.92	23.93	22.86	24
10	16QAM	1	0	23.90	23.94	22.76	
10	16QAM	1	25	23.83	23.85	22.66	
10	16QAM	1	49	23.78	23.74	23.69	23
10	16QAM	25	0	22.83	22.91	21.22	
10	16QAM	25	12	22.86	22.98	21.63	
10	16QAM	25	25	22.80	22.82	22.55	23
10	16QAM	50	0	22.91	22.91	21.94	
10	64QAM	1	0	22.91	22.55	21.95	
10	64QAM	1	25	22.81	22.79	21.64	23
10	64QAM	1	49	22.81	22.63	21.69	
10	64QAM	25	0	21.83	21.92	20.28	
10	64QAM	25	12	21.97	21.82	20.82	22
10	64QAM	25	25	21.46	21.90	20.54	
10	64QAM	50	0	21.70	21.75	20.06	
Channel				2075	2100	2425	
Frequency (MHz)				2502.5	2535	2597.5	
5	QPSK	1	0	24.68	24.65	23.45	25
5	QPSK	1	12	24.74	24.79	23.43	
5	QPSK	1	24	24.82	24.98	24.41	
5	QPSK	12	0	23.78	23.90	22.13	24
5	QPSK	12	7	23.84	23.90	22.80	
5	QPSK	12	13	23.85	23.88	23.58	
5	QPSK	25	0	23.85	23.98	22.83	24
5	16QAM	1	0	23.84	23.92	22.75	
5	16QAM	1	12	23.92	23.84	22.64	
5	16QAM	1	24	23.78	23.80	23.73	23
5	16QAM	12	0	22.88	22.91	21.26	
5	16QAM	12	7	22.94	22.92	21.68	
5	16QAM	12	13	22.85	22.81	22.55	23
5	16QAM	25	0	22.86	22.89	21.92	
5	64QAM	1	0	22.84	22.51	21.93	
5	64QAM	1	12	22.77	22.85	21.62	23
5	64QAM	1	24	22.63	22.80	21.69	
5	64QAM	12	0	21.84	21.85	20.23	
5	64QAM	12	7	21.89	21.90	20.54	22
5	64QAM	12	13	21.50	21.93	20.54	
5	64QAM	25	0	21.88	21.73	20.16	



Band 12									
Art 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				2306	2356	2313			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	24.31	24.25	24.23			
10	QPSK	1	25	24.24	24.29	24.26		25	
10	QPSK	1	49	24.35	24.34	24.27			
10	QPSK	25	0	23.39	23.43	23.36			
10	QPSK	25	12	23.40	23.38	23.45		24	
10	QPSK	25	25	23.44	23.38	23.40			
10	QPSK	50	0	23.48	23.40	23.41			
10	16QAM	1	0	23.66	23.62	23.62			
10	16QAM	1	25	23.62	23.66	23.65		24	
10	16QAM	1	49	23.72	23.66	23.66			
10	16QAM	25	0	22.38	22.40	22.40			
10	16QAM	25	12	22.48	22.41	22.41		23	
10	16QAM	25	25	22.44	22.46	22.40			
10	16QAM	50	0	22.46	22.41	22.40			
10	64QAM	1	0	22.53	22.46	22.46			
10	64QAM	1	25	22.58	22.50	22.56		23	
10	64QAM	1	49	22.64	22.56	22.54			
10	64QAM	25	0	21.44	21.44	21.43			
10	64QAM	25	12	21.53	21.44	21.45		22	
10	64QAM	25	25	21.48	21.48	21.47			
10	64QAM	50	0	21.52	21.45	21.42			
Channel				2306	2306	2315		Tune-up limit (dBm)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.22	24.18	24.20			
5	QPSK	1	12	24.19	24.29	24.22		25	
5	QPSK	1	24	24.32	24.25	24.27			
5	QPSK	12	0	23.30	23.41	23.29			
5	QPSK	12	7	23.41	23.38	23.40		24	
5	QPSK	12	13	23.38	23.42	23.42			
5	QPSK	25	0	23.46	23.33	23.39			
5	16QAM	1	0	23.59	23.56	23.52			
5	16QAM	1	12	23.57	23.57	23.60		24	
5	16QAM	1	24	23.66	23.62	23.62			
5	16QAM	12	0	22.37	22.34	22.36			
5	16QAM	12	7	22.43	22.32	22.31		23	
5	16QAM	12	13	22.43	22.42	22.35			
5	16QAM	25	0	22.36	22.33	22.35			
5	64QAM	1	0	22.43	22.37	22.38			
5	64QAM	1	12	22.57	22.54	22.47		23	
5	64QAM	1	24	22.61	22.56	22.48			
5	64QAM	12	0	21.37	21.38	21.41			
5	64QAM	12	7	21.45	21.34	21.45		22	
5	64QAM	12	13	21.38	21.44	21.43			
5	64QAM	25	0	21.52	21.37	21.38			
Channel				2306	2306	2315		Tune-up limit (dBm)	
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.24	24.19	24.21			
3	QPSK	1	8	24.22	24.22	24.23		25	
3	QPSK	1	14	24.26	24.24	24.19			
3	QPSK	8	0	23.33	23.39	23.37			
3	QPSK	8	4	23.41	23.38	23.40		24	
3	QPSK	8	7	23.35	23.41	23.42			
3	QPSK	15	0	23.43	23.31	23.31			
3	16QAM	1	0	23.57	23.61	23.57			
3	16QAM	1	8	23.61	23.60	23.57		24	
3	16QAM	1	14	23.66	23.67	23.63			
3	16QAM	8	0	22.30	22.30	22.38			
3	16QAM	8	4	22.40	22.38	22.37		23	
3	16QAM	8	7	22.42	22.40	22.39			
3	16QAM	15	0	22.40	22.33	22.30			
3	64QAM	1	0	22.46	22.39	22.39			
3	64QAM	1	8	22.49	22.56	22.51		23	
3	64QAM	1	14	22.56	22.53	22.44			
3	64QAM	8	0	21.41	21.40	21.39			
3	64QAM	8	4	21.48	21.43	21.42		22	
3	64QAM	8	7	21.44	21.48	21.45			
3	64QAM	15	0	21.49	21.43	21.35			
Channel				2307	2306	2317		Tune-up limit (dBm)	
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.25	24.25	24.21			
1.4	QPSK	1	3	24.15	24.25	24.19		25	
1.4	QPSK	1	5	24.26	24.24	24.21			
1.4	QPSK	3	0	24.24	24.18	24.14			
1.4	QPSK	3	1	24.06	24.16	24.13		24	
1.4	QPSK	3	3	24.22	24.22	24.21			
1.4	QPSK	6	0	23.38	23.39	23.35			
1.4	16QAM	1	0	23.57	23.58	23.52			
1.4	16QAM	1	3	23.55	23.62	23.56		24	
1.4	16QAM	1	5	23.66	23.65	23.65			
1.4	16QAM	3	0	23.47	23.53	23.50			
1.4	16QAM	3	1	23.55	23.56	23.50		23	
1.4	16QAM	3	3	23.62	23.62	23.58			
1.4	16QAM	6	0	22.45	22.34	22.35			
1.4	64QAM	1	0	22.51	22.38	22.38			
1.4	64QAM	1	3	22.49	22.51	22.52		23	
1.4	64QAM	1	5	22.61	22.48	22.44			
1.4	64QAM	3	0	22.47	22.31	22.35			
1.4	64QAM	3	1	22.42	22.46	22.46		23	
1.4	64QAM	3	3	22.59	22.41	22.37			
1.4	64QAM	6	0	21.45	21.41	21.36		22	



Band 13							
Art 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				2329	762		
Frequency (MHz)							
10	QPSK	1	0		24.36		25
10	QPSK	1	25		24.38		
10	QPSK	1	49		24.47		
10	QPSK	25	0		23.43		24
10	QPSK	25	12		23.53		
10	QPSK	25	25		23.51		
10	QPSK	50	0		23.53		24
10	16QAM	1	0		23.71		
10	16QAM	1	25		23.74		
10	16QAM	1	49		23.74		23
10	16QAM	25	0		22.48		
10	16QAM	25	12		22.54		
10	16QAM	25	25		22.55		23
10	16QAM	50	0		22.50		
10	64QAM	1	0		22.65		
10	64QAM	1	25		22.71		23
10	64QAM	1	49		22.63		
10	64QAM	25	0		21.51		
10	64QAM	25	12		21.56		22
10	64QAM	25	25		21.56		
10	64QAM	50	0		21.53		
Channel				23295	23230	23295	Tune-up limit (dBm)
Frequency (MHz)				779.5	792	794.5	
5	QPSK	1	0	24.29	24.31	24.35	25
5	QPSK	1	12	24.30	24.32	24.33	
5	QPSK	1	24	24.43	24.42	24.45	
5	QPSK	12	0	23.42	23.43	23.40	24
5	QPSK	12	7	23.47	23.41	23.50	
5	QPSK	12	13	23.49	23.53	23.46	
5	QPSK	25	0	23.47	23.45	23.52	24
5	16QAM	1	0	23.66	23.66	23.62	
5	16QAM	1	12	23.65	23.70	23.68	
5	16QAM	1	24	23.64	23.74	23.67	23
5	16QAM	12	0	22.39	22.43	22.46	
5	16QAM	12	7	22.49	22.53	22.51	
5	16QAM	12	13	22.48	22.50	22.53	23
5	16QAM	25	0	22.47	22.40	22.49	
5	64QAM	1	0	22.60	22.56	22.56	
5	64QAM	1	12	22.67	22.65	22.65	23
5	64QAM	1	24	22.62	22.59	22.56	
5	64QAM	12	0	21.41	21.45	21.49	
5	64QAM	12	7	21.49	21.53	21.47	22
5	64QAM	12	13	21.56	21.53	21.55	
5	64QAM	25	0	21.48	21.46	21.47	



Band 14							
Art 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				2330			
Frequency (MHz)				793			
10	QPSK	1	0		24.41		25
10	QPSK	1	25		24.31		
10	QPSK	1	49		24.29		
10	QPSK	25	0		23.42		24
10	QPSK	25	12		23.41		
10	QPSK	25	25		23.47		
10	QPSK	50	0		23.40		24
10	16QAM	1	0		23.76		
10	16QAM	1	25		23.78		
10	16QAM	1	49		23.89		23
10	16QAM	25	0		22.40		
10	16QAM	25	12		22.44		
10	16QAM	25	25		22.45		23
10	16QAM	50	0		22.40		
10	64QAM	1	0		22.65		
10	64QAM	1	25		22.68		23
10	64QAM	1	49		22.59		
10	64QAM	25	0		21.45		
10	64QAM	25	12		21.48		22
10	64QAM	25	25		21.50		
10	64QAM	50	0		21.42		
Channel				2335			
Frequency (MHz)				793			
5	QPSK	1	0	24.39	24.32	24.35	25
5	QPSK	1	12	24.22	24.29	24.26	
5	QPSK	1	24	24.24	24.25	24.24	
5	QPSK	12	0	23.34	23.34	23.40	24
5	QPSK	12	7	23.34	23.33	23.38	
5	QPSK	12	13	23.44	23.43	23.46	
5	QPSK	25	0	23.37	23.31	23.32	24
5	16QAM	1	0	23.74	23.67	23.76	
5	16QAM	1	12	23.69	23.68	23.72	
5	16QAM	1	24	23.68	23.64	23.60	23
5	16QAM	12	0	22.30	22.32	22.35	
5	16QAM	12	7	22.38	22.34	22.44	
5	16QAM	12	13	22.36	22.36	22.36	23
5	16QAM	25	0	22.37	22.38	22.35	
5	64QAM	1	0	22.58	22.60	22.65	
5	64QAM	1	12	22.59	22.59	22.63	23
5	64QAM	1	24	22.53	22.51	22.48	
5	64QAM	12	0	21.38	21.43	21.37	
5	64QAM	12	7	21.47	21.39	21.47	22
5	64QAM	12	13	21.43	21.43	21.50	
5	64QAM	25	0	21.42	21.41	21.33	



Band 17							
Art 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				23780	23790	23800	
Frequency (MHz)				706	710	711	
10	QPSK	1	0	24.24	24.16	24.23	25
10	QPSK	1	25	24.23	24.25	24.30	
10	QPSK	1	49	24.28	24.31	24.29	
10	QPSK	25	0	23.33	23.33	23.36	24
10	QPSK	25	12	23.45	23.39	23.39	
10	QPSK	25	25	23.48	23.50	23.48	
10	QPSK	50	0	23.47	23.38	23.37	24
10	16QAM	1	0	23.59	23.61	23.61	
10	16QAM	1	25	23.64	23.66	23.66	
10	16QAM	1	49	23.72	23.70	23.69	23
10	16QAM	25	0	22.34	22.34	22.36	
10	16QAM	25	12	22.45	22.41	22.40	
10	16QAM	25	25	22.44	22.46	22.46	23
10	16QAM	50	0	22.46	22.39	22.38	
10	64QAM	1	0	22.50	22.46	22.47	
10	64QAM	1	25	22.60	22.59	22.59	23
10	64QAM	1	49	22.55	22.61	22.59	
10	64QAM	25	0	21.36	21.33	21.36	
10	64QAM	25	12	21.46	21.46	21.43	22
10	64QAM	25	25	21.50	21.51	21.50	
10	64QAM	50	0	21.51	21.43	21.41	
Channel				23755	23760	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.15	24.10	24.15	25
5	QPSK	1	12	24.17	24.18	24.29	
5	QPSK	1	24	24.18	24.29	24.19	
5	QPSK	12	0	23.33	23.28	23.28	24
5	QPSK	12	7	23.38	23.32	23.31	
5	QPSK	12	13	23.44	23.43	23.47	
5	QPSK	25	0	23.40	23.29	23.35	24
5	16QAM	1	0	23.54	23.61	23.59	
5	16QAM	1	12	23.54	23.64	23.65	
5	16QAM	1	24	23.65	23.66	23.63	23
5	16QAM	12	0	22.29	22.31	22.36	
5	16QAM	12	7	22.43	22.33	22.31	
5	16QAM	12	13	22.37	22.45	22.39	23
5	16QAM	25	0	22.36	22.33	22.33	
5	64QAM	1	0	22.44	22.41	22.46	
5	64QAM	1	12	22.51	22.51	22.56	23
5	64QAM	1	24	22.49	22.55	22.57	
5	64QAM	12	0	21.27	21.24	21.36	
5	64QAM	12	7	21.39	21.40	21.36	22
5	64QAM	12	13	21.42	21.51	21.44	
5	64QAM	25	0	21.43	21.37	21.32	



Band 30							
Arif 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				27710			
Frequency (MHz)				2310			
10	QPSK	1	0	24.61			25
10	QPSK	1	25	24.65			
10	QPSK	1	49	24.62			
10	QPSK	25	0	23.62			24
10	QPSK	25	12	23.68			
10	QPSK	25	25	23.71			
10	QPSK	50	0	23.89			
10	16QAM	1	0	23.99			24
10	16QAM	1	25	23.93			
10	16QAM	1	49	23.96			
10	16QAM	25	0	22.84			23
10	16QAM	25	12	22.71			
10	16QAM	25	25	22.70			
10	16QAM	50	0	22.70			
10	64QAM	1	0	22.82			23
10	64QAM	1	25	22.90			
10	64QAM	1	49	22.83			
10	64QAM	25	0	21.89			22
10	64QAM	25	12	21.71			
10	64QAM	25	25	21.75			
10	64QAM	50	0	21.70			
Channel				27885	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	24.53	24.51	24.55	25
5	QPSK	1	12	24.60	24.59	24.63	
5	QPSK	1	24	24.54	24.56	24.60	
5	QPSK	12	0	23.60	23.61	23.57	24
5	QPSK	12	7	23.62	23.64	23.59	
5	QPSK	12	13	23.68	23.63	23.64	
5	QPSK	25	0	23.82	23.84	23.83	
5	16QAM	1	0	23.93	23.96	23.93	24
5	16QAM	1	12	23.93	23.88	23.88	
5	16QAM	1	24	23.93	23.89	23.92	
5	16QAM	12	0	22.84	22.89	22.80	23
5	16QAM	12	7	22.68	22.65	22.71	
5	16QAM	12	13	22.65	22.64	22.67	
5	16QAM	25	0	22.63	22.67	22.62	
5	64QAM	1	0	22.81	22.75	22.76	23
5	64QAM	1	12	22.81	22.86	22.82	
5	64QAM	1	24	22.80	22.77	22.80	
5	64QAM	12	0	21.65	21.63	21.60	22
5	64QAM	12	7	21.64	21.63	21.63	
5	64QAM	12	13	21.69	21.73	21.68	
5	64QAM	25	0	21.70	21.65	21.63	



Band 71									
Art 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				13322	13322	13372			
Frequency (MHz)				675	683	688			
20	QPSK	1	0	24.40	24.34	24.28			
20	QPSK	1	49	24.30	24.32	24.31		25	
20	QPSK	1	99	24.30	24.30	24.26			
20	QPSK	50	0	23.45	23.52	23.39			
20	QPSK	50	24	23.42	23.42	23.46			
20	QPSK	50	50	23.50	23.51	23.50		24	
20	QPSK	100	0	23.48	23.44	23.48			
20	16QAM	1	0	23.72	23.62	23.64			
20	16QAM	1	49	23.65	23.69	23.65		24	
20	16QAM	1	99	23.65	23.69	23.62			
20	16QAM	50	0	22.47	22.42	22.46			
20	16QAM	50	24	22.52	22.45	22.42			
20	16QAM	50	50	22.51	22.53	22.46		23	
20	16QAM	100	0	22.46	22.42	22.47			
20	64QAM	1	0	22.60	22.50	22.46			
20	64QAM	1	49	22.50	22.55	22.52		23	
20	64QAM	1	99	22.57	22.59	22.50			
20	64QAM	50	0	21.49	21.40	21.41			
20	64QAM	50	24	21.52	21.47	21.46			
20	64QAM	50	50	21.49	21.53	21.52		22	
20	64QAM	100	0	21.53	21.41	21.46			
Channel				133197	133207	133367		Tune-up limit (dBm)	
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	24.33	24.29	24.18			
15	QPSK	1	37	24.27	24.24	24.25		25	
15	QPSK	1	74	24.24	24.34	24.17			
15	QPSK	36	0	23.39	23.37	23.31			
15	QPSK	36	23	23.62	23.38	23.42			
15	QPSK	36	39	23.49	23.51	23.47		24	
15	QPSK	75	0	23.48	23.36	23.41			
15	16QAM	1	0	23.89	23.58	23.59			
15	16QAM	1	37	23.59	23.66	23.58		24	
15	16QAM	1	74	23.65	23.66	23.53			
15	16QAM	36	0	22.43	22.37	22.36			
15	16QAM	36	20	22.45	22.36	22.35			
15	16QAM	36	39	22.50	22.43	22.47		23	
15	16QAM	75	0	22.38	22.42	22.39			
15	64QAM	1	0	22.50	22.43	22.36			
15	64QAM	1	37	22.46	22.45	22.46		23	
15	64QAM	1	74	22.53	22.50	22.43			
15	64QAM	36	0	21.47	21.37	21.37			
15	64QAM	36	20	21.47	21.40	21.38			
15	64QAM	36	39	21.41	21.48	21.43		22	
15	64QAM	75	0	21.46	21.32	21.46			
Channel				133172	133272	133422		Tune-up limit (dBm)	
Frequency (MHz)				666	676	683			
10	QPSK	1	0	24.35	24.30	24.18			
10	QPSK	1	25	24.27	24.27	24.23		25	
10	QPSK	1	49	24.20	24.25	24.24			
10	QPSK	25	0	23.45	23.42	23.32			
10	QPSK	25	12	23.62	23.32	23.37			
10	QPSK	25	25	23.42	23.47	23.44		24	
10	QPSK	50	0	23.46	23.36	23.43			
10	16QAM	1	0	23.64	23.60	23.60			
10	16QAM	1	25	23.63	23.63	23.57		24	
10	16QAM	1	49	23.67	23.62	23.52			
10	16QAM	25	0	22.43	22.36	22.37			
10	16QAM	25	12	22.49	22.36	22.32			
10	16QAM	25	25	22.46	22.52	22.43		23	
10	16QAM	50	0	22.36	22.41	22.43			
10	64QAM	1	0	22.55	22.43	22.46			
10	64QAM	1	25	22.43	22.47	22.52		23	
10	64QAM	1	49	22.50	22.54	22.42			
10	64QAM	25	0	21.43	21.37	21.35			
10	64QAM	25	12	21.46	21.37	21.37			
10	64QAM	25	25	21.44	21.52	21.50		22	
10	64QAM	50	0	21.47	21.32	21.46			
Channel				133147	133247	133417		Tune-up limit (dBm)	
Frequency (MHz)				665.5	675.5	685.5			
5	QPSK	1	0	24.32	24.25	24.23			
5	QPSK	1	12	24.23	24.28	24.28		25	
5	QPSK	1	24	24.22	24.24	24.18			
5	QPSK	12	0	23.43	23.37	23.36			
5	QPSK	12	7	23.48	23.36	23.36			
5	QPSK	12	13	23.50	23.45	23.42		24	
5	QPSK	25	0	23.47	23.39	23.43			
5	16QAM	1	0	23.65	23.62	23.61			
5	16QAM	1	12	23.59	23.66	23.64		24	
5	16QAM	1	24	23.59	23.67	23.53			
5	16QAM	12	0	22.38	22.42	22.36			
5	16QAM	12	7	22.42	22.39	22.34			
5	16QAM	12	13	22.46	22.48	22.45		23	
5	16QAM	25	0	22.42	22.34	22.37			
5	64QAM	1	0	22.51	22.45	22.46			
5	64QAM	1	12	22.50	22.52	22.43		23	
5	64QAM	1	24	22.47	22.57	22.46			
5	64QAM	12	0	21.48	21.36	21.40			
5	64QAM	12	7	21.44	21.41	21.45			
5	64QAM	12	13	21.46	21.51	21.42		22	
5	64QAM	25	0	21.43	21.36	21.41			



Band 5							
Art 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				2050	2052	2050	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.40	24.37	24.38	25
10	QPSK	1	25	24.27	24.29	24.30	
10	QPSK	1	49	24.32	24.33	24.28	
10	QPSK	25	0	23.43	23.41	23.40	24
10	QPSK	25	12	23.49	23.41	23.42	
10	QPSK	25	25	23.46	23.44	23.45	
10	QPSK	50	0	23.50	23.50	23.39	24
10	16QAM	1	0	23.77	23.74	23.72	
10	16QAM	1	25	23.69	23.70	23.66	
10	16QAM	1	49	23.69	23.66	23.61	23
10	16QAM	25	0	22.44	22.42	22.40	
10	16QAM	25	12	22.52	22.41	22.39	
10	16QAM	25	25	22.46	22.43	22.40	23
10	16QAM	50	0	22.53	22.48	22.41	
10	64QAM	1	0	22.48	22.56	22.57	
10	64QAM	1	25	22.64	22.63	22.46	23
10	64QAM	1	49	22.66	22.60	22.11	
10	64QAM	25	0	21.44	21.43	21.45	
10	64QAM	25	12	21.55	21.44	21.45	22
10	64QAM	25	25	21.51	21.48	21.08	
10	64QAM	50	0	21.54	21.52	21.32	
Channel				20425	20525	20525	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.34	24.37	24.34	25
5	QPSK	1	12	24.22	24.21	24.22	
5	QPSK	1	24	24.24	24.31	24.26	
5	QPSK	12	0	23.38	23.35	23.35	24
5	QPSK	12	7	23.46	23.31	23.33	
5	QPSK	12	13	23.37	23.39	23.41	
5	QPSK	25	0	23.42	23.43	23.31	24
5	16QAM	1	0	23.73	23.68	23.71	
5	16QAM	1	12	23.66	23.70	23.59	
5	16QAM	1	24	23.64	23.66	23.59	23
5	16QAM	12	0	22.37	22.37	22.33	
5	16QAM	12	7	22.46	22.41	22.33	
5	16QAM	12	13	22.38	22.35	22.33	23
5	16QAM	25	0	22.48	22.38	22.39	
5	64QAM	1	0	22.48	22.56	22.50	
5	64QAM	1	12	22.61	22.68	22.41	23
5	64QAM	1	24	22.64	22.62	22.07	
5	64QAM	12	0	21.36	21.34	21.44	
5	64QAM	12	7	21.55	21.40	21.43	22
5	64QAM	12	13	21.45	21.48	21.05	
5	64QAM	25	0	21.44	21.52	21.25	
Channel				20415	20525	20535	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.32	24.27	24.32	25
3	QPSK	1	8	24.19	24.23	24.30	
3	QPSK	1	14	24.26	24.27	24.25	
3	QPSK	8	0	23.42	23.41	23.31	24
3	QPSK	8	4	23.46	23.37	23.35	
3	QPSK	8	7	23.37	23.39	23.35	
3	QPSK	15	0	23.42	23.49	23.36	24
3	16QAM	1	0	23.72	23.66	23.69	
3	16QAM	1	8	23.66	23.65	23.65	
3	16QAM	1	14	23.65	23.59	23.56	23
3	16QAM	8	0	22.44	22.32	22.36	
3	16QAM	8	4	22.51	22.33	22.34	
3	16QAM	8	7	22.46	22.43	22.34	23
3	16QAM	15	0	22.53	22.44	22.37	
3	64QAM	1	0	22.61	22.54	22.47	
3	64QAM	1	8	22.67	22.63	22.44	23
3	64QAM	1	14	22.48	22.50	22.09	
3	64QAM	8	0	21.39	21.40	21.40	
3	64QAM	8	4	21.46	21.43	21.35	22
3	64QAM	8	7	21.51	21.45	21.05	
3	64QAM	15	0	21.45	21.43	21.27	
Channel				20407	20525	20543	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.30	24.33	24.36	25
1.4	QPSK	1	3	24.20	24.24	24.27	
1.4	QPSK	1	5	24.32	24.29	24.24	
1.4	QPSK	3	0	24.22	24.32	24.32	24
1.4	QPSK	3	1	24.10	24.04	24.27	
1.4	QPSK	3	3	24.29	24.19	24.18	
1.4	QPSK	6	0	23.44	23.41	23.30	24
1.4	16QAM	1	0	23.76	23.71	23.70	
1.4	16QAM	1	3	23.62	23.63	23.56	
1.4	16QAM	1	5	23.63	23.61	23.60	23
1.4	16QAM	3	0	23.76	23.64	23.63	
1.4	16QAM	3	1	23.63	23.65	23.60	
1.4	16QAM	3	3	23.60	23.65	23.54	23
1.4	16QAM	6	0	22.62	22.40	22.40	
1.4	64QAM	1	0	22.62	22.62	22.62	
1.4	64QAM	1	3	22.64	22.67	22.45	23
1.4	64QAM	1	5	22.63	22.50	22.01	
1.4	64QAM	3	0	22.44	22.48	22.50	
1.4	64QAM	3	1	22.61	22.62	22.42	23
1.4	64QAM	3	3	22.62	22.49	21.96	
1.4	64QAM	6	0	21.49	21.60	21.32	



Band 7							
Art 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				2050	2100	2350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	2140	2142	2143	23.1
20	QPSK	1	49	2128	2139	2130	
20	QPSK	1	99	2131	2121	2124	
20	QPSK	50	0	2135	2138	2139	23.1
20	QPSK	50	24	2127	2135	2130	
20	QPSK	50	50	2132	2132	2131	
20	QPSK	100	0	2131	2133	2137	23.1
20	16QAM	1	0	2139	2121	2124	
20	16QAM	1	49	2136	2126	2125	
20	16QAM	1	99	2134	2139	2136	23
20	16QAM	50	0	2133	2128	2124	
20	16QAM	50	24	2121	2124	2128	
20	16QAM	50	50	2138	2138	2136	23
20	16QAM	100	0	2132	2125	2121	
20	64QAM	1	0	2128	2135	2140	
20	64QAM	1	49	2127	2128	2132	23
20	64QAM	1	99	2128	2124	2122	
20	64QAM	50	0	2117	2102	2117	
20	64QAM	50	24	2111	2113	2117	22
20	64QAM	50	50	2116	2119	2115	
20	64QAM	100	0	2111	2120	2109	
Channel				2065	2100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	2140	2136	2135	23.1
15	QPSK	1	37	2123	2136	2129	
15	QPSK	1	74	2131	2114	2123	
15	QPSK	36	0	2127	2128	2134	23.1
15	QPSK	36	20	2125	2132	2122	
15	QPSK	36	39	2129	2129	2127	
15	QPSK	75	0	2125	2130	2135	23.1
15	16QAM	1	0	2131	2120	2121	
15	16QAM	1	37	2136	2116	2121	
15	16QAM	1	74	2128	2134	2135	23
15	16QAM	36	0	2133	2119	2114	
15	16QAM	36	20	2112	2114	2125	
15	16QAM	36	39	2130	2137	2128	23
15	16QAM	75	0	2129	2116	2112	
15	64QAM	1	0	2127	2131	2133	
15	64QAM	1	37	2122	2124	2132	23
15	64QAM	1	74	2128	2114	2115	
15	64QAM	36	0	2108	2099	2113	
15	64QAM	36	20	2107	2103	2116	22
15	64QAM	36	39	2106	2116	2112	
15	64QAM	75	0	2111	2113	2099	
Channel				2080	2100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	2138	2136	2142	23.1
10	QPSK	1	25	2123	2135	2120	
10	QPSK	1	49	2129	2113	2124	
10	QPSK	25	0	2127	2128	2133	23.1
10	QPSK	25	12	2117	2134	2120	
10	QPSK	25	25	2128	2122	2121	
10	QPSK	50	0	2122	2126	2129	23.1
10	16QAM	1	0	2138	2121	2119	
10	16QAM	1	25	2133	2119	2123	
10	16QAM	1	49	2124	2137	2138	23
10	16QAM	25	0	2124	2122	2122	
10	16QAM	25	12	2118	2114	2124	
10	16QAM	25	25	2135	2131	2134	23
10	16QAM	50	0	2126	2117	2115	
10	64QAM	1	0	2119	2130	2134	
10	64QAM	1	25	2122	2121	2127	23
10	64QAM	1	49	2128	2121	2121	
10	64QAM	25	0	2111	2092	2107	
10	64QAM	25	12	2104	2109	2113	22
10	64QAM	25	25	2110	2114	2107	
10	64QAM	50	0	2109	2120	2097	
Channel				20775	2100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	2139	2136	2135	23.1
5	QPSK	1	12	2116	2135	2123	
5	QPSK	1	24	2124	2114	2121	
5	QPSK	12	0	2135	2134	2131	23.1
5	QPSK	12	7	2127	2106	2105	
5	QPSK	12	13	2129	2128	2123	
5	QPSK	25	0	2125	2130	2134	23.1
5	16QAM	1	0	2130	2113	2124	
5	16QAM	1	12	2133	2122	2116	
5	16QAM	1	24	2124	2138	2134	23
5	16QAM	12	0	2124	2128	2123	
5	16QAM	12	7	2111	2117	2127	
5	16QAM	12	13	2137	2132	2131	23
5	16QAM	25	0	2124	2118	2111	
5	64QAM	1	0	2128	2125	2136	
5	64QAM	1	12	2128	2120	2132	23
5	64QAM	1	24	2120	2123	2114	
5	64QAM	12	0	2114	2097	2113	
5	64QAM	12	7	2111	2110	2109	22
5	64QAM	12	13	2115	2113	2114	
5	64QAM	25	0	2106	2120	2096	



Band 12							
Art 0							
Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)
Channel				2300	2306	2332	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	24.32	24.27	24.27	25
10	QPSK	1	25	24.30	24.30	24.33	
10	QPSK	1	49	24.37	24.38	24.31	
10	QPSK	25	0	23.43	23.46	23.43	24
10	QPSK	25	12	23.50	23.42	23.45	
10	QPSK	25	25	23.51	23.53	23.50	
10	QPSK	50	0	23.52	23.46	23.47	24
10	16QAM	1	0	23.73	23.65	23.64	
10	16QAM	1	25	23.70	23.72	23.69	
10	16QAM	1	49	23.77	23.74	23.72	23
10	16QAM	25	0	22.44	22.46	22.47	
10	16QAM	25	12	22.51	22.47	22.46	
10	16QAM	25	25	22.49	22.51	22.51	23
10	16QAM	50	0	22.53	22.47	22.44	
10	64QAM	1	0	22.63	22.47	22.49	
10	64QAM	1	25	22.61	22.64	22.61	23
10	64QAM	1	49	22.67	22.60	22.60	
10	64QAM	25	0	21.46	21.47	21.46	
10	64QAM	25	12	21.56	21.49	21.49	22
10	64QAM	25	25	21.51	21.55	21.53	
10	64QAM	50	0	21.55	21.48	21.49	
Channel				2306	2306	2316	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	24.31	24.26	24.21	25
5	QPSK	1	12	24.22	24.21	24.24	
5	QPSK	1	24	24.36	24.30	24.25	
5	QPSK	12	0	23.40	23.46	23.42	24
5	QPSK	12	7	23.46	23.40	23.41	
5	QPSK	12	13	23.48	23.43	23.46	
5	QPSK	25	0	23.48	23.42	23.47	24
5	16QAM	1	0	23.71	23.63	23.59	
5	16QAM	1	12	23.69	23.62	23.61	
5	16QAM	1	24	23.76	23.73	23.65	23
5	16QAM	12	0	22.34	22.38	22.43	
5	16QAM	12	7	22.46	22.43	22.43	
5	16QAM	12	13	22.39	22.43	22.45	23
5	16QAM	25	0	22.47	22.44	22.36	
5	64QAM	1	0	22.48	22.46	22.49	
5	64QAM	1	12	22.58	22.61	22.57	23
5	64QAM	1	24	22.63	22.50	22.54	
5	64QAM	12	0	21.38	21.40	21.46	
5	64QAM	12	7	21.55	21.46	21.45	22
5	64QAM	12	13	21.46	21.51	21.43	
5	64QAM	25	0	21.49	21.48	21.49	
Channel				2306	2306	2316	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	24.28	24.17	24.21	25
3	QPSK	1	8	24.20	24.29	24.27	
3	QPSK	1	14	24.32	24.28	24.23	
3	QPSK	8	0	23.40	23.38	23.39	24
3	QPSK	8	4	23.44	23.41	23.40	
3	QPSK	8	7	23.41	23.42	23.50	
3	QPSK	15	0	23.42	23.38	23.38	24
3	16QAM	1	0	23.71	23.56	23.63	
3	16QAM	1	8	23.61	23.68	23.63	
3	16QAM	1	14	23.73	23.73	23.72	23
3	16QAM	8	0	22.41	22.37	22.41	
3	16QAM	8	4	22.42	22.45	22.45	
3	16QAM	8	7	22.46	22.43	22.51	23
3	16QAM	15	0	22.51	22.45	22.43	
3	64QAM	1	0	22.48	22.37	22.40	
3	64QAM	1	8	22.58	22.60	22.59	23
3	64QAM	1	14	22.59	22.51	22.60	
3	64QAM	8	0	21.40	21.37	21.47	
3	64QAM	8	4	21.48	21.43	21.49	22
3	64QAM	8	7	21.51	21.54	21.44	
3	64QAM	15	0	21.54	21.45	21.41	
Channel				2307	2306	2317	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	716.3	
1.4	QPSK	1	0	24.29	24.18	24.23	25
1.4	QPSK	1	3	24.24	24.30	24.29	
1.4	QPSK	1	5	24.29	24.28	24.27	
1.4	QPSK	3	0	24.23	24.11	24.15	24
1.4	QPSK	3	1	24.14	24.22	24.23	
1.4	QPSK	3	3	24.19	24.18	24.22	
1.4	QPSK	6	0	23.51	23.37	23.41	24
1.4	16QAM	1	0	23.69	23.60	23.63	
1.4	16QAM	1	3	23.66	23.68	23.65	
1.4	16QAM	1	5	23.75	23.69	23.68	24
1.4	16QAM	3	0	23.65	23.50	23.63	
1.4	16QAM	3	1	23.62	23.63	23.61	
1.4	16QAM	3	3	23.69	23.62	23.58	23
1.4	16QAM	6	0	22.44	22.44	22.35	
1.4	64QAM	1	0	22.48	22.47	22.48	
1.4	64QAM	1	3	22.55	22.61	22.61	23
1.4	64QAM	1	5	22.58	22.53	22.57	
1.4	64QAM	3	0	22.38	22.40	22.40	
1.4	64QAM	3	1	22.51	22.59	22.52	23
1.4	64QAM	3	3	22.58	22.53	22.53	
1.4	64QAM	6	0	21.60	21.38	21.46	



Band 13							
Art 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				2320			
Frequency (MHz)				782			
10	GPSK	1	0		24.62		25
10	GPSK	1	25		24.48		
10	GPSK	1	49		24.45		
10	GPSK	25	0		23.64		24
10	GPSK	25	12		23.56		
10	GPSK	25	25		23.61		
10	GPSK	50	0		23.60		24
10	16QAM	1	0		23.79		
10	16QAM	1	25		23.62		
10	16QAM	1	49		23.62		23
10	16QAM	25	0		22.56		
10	16QAM	25	12		22.62		
10	16QAM	25	25		22.63		23
10	16QAM	50	0		22.58		
10	64QAM	1	0		22.74		
10	64QAM	1	25		22.72		23
10	64QAM	1	49		22.75		
10	64QAM	25	0		21.58		
10	64QAM	25	12		21.64		22
10	64QAM	25	25		21.64		
10	64QAM	50	0		21.59		
Channel				23205			
Frequency (MHz)				779.5			
5	GPSK	1	0	24.38	24.36	24.39	25
5	GPSK	1	12	24.43	24.48	24.40	
5	GPSK	1	24	24.47	24.48	24.42	
5	GPSK	12	0	23.93	23.45	23.50	24
5	GPSK	12	7	23.96	23.56	23.47	
5	GPSK	12	13	23.67	23.60	23.54	
5	GPSK	25	0	23.51	23.55	23.59	24
5	16QAM	1	0	23.69	23.74	23.76	
5	16QAM	1	12	23.61	23.72	23.77	
5	16QAM	1	24	23.60	23.72	23.73	23
5	16QAM	12	0	22.51	22.50	22.63	
5	16QAM	12	7	22.54	22.55	22.60	
5	16QAM	12	13	22.61	22.56	22.60	23
5	16QAM	25	0	22.50	22.52	22.56	
5	64QAM	1	0	22.71	22.65	22.72	
5	64QAM	1	12	22.71	22.65	22.64	23
5	64QAM	1	24	22.75	22.65	22.66	
5	64QAM	12	0	21.55	21.50	21.51	
5	64QAM	12	7	21.58	21.63	21.56	22
5	64QAM	12	13	21.63	21.57	21.59	
5	64QAM	25	0	21.59	21.49	21.59	



Band 14							
Art 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				2330			
Frequency (MHz)				793			
10	GPSK	1	0	24.45			25
10	GPSK	1	25	24.40			
10	GPSK	1	49	24.35			
10	GPSK	25	0	23.49			24
10	GPSK	25	12	23.32			
10	GPSK	25	25	23.96			
10	GPSK	50	0	23.48			24
10	16QAM	1	0	23.89			
10	16QAM	1	25	23.76			
10	16QAM	1	49	23.76			23
10	16QAM	25	0	22.50			
10	16QAM	25	12	22.51			
10	16QAM	25	25	22.54			23
10	16QAM	50	0	22.48			
10	64QAM	1	0	22.70			
10	64QAM	1	25	22.76			22
10	64QAM	1	49	22.63			
10	64QAM	25	0	21.53			
10	64QAM	25	12	21.53			22
10	64QAM	25	25	21.59			
10	64QAM	50	0	21.51			
Channel				23305			
Frequency (MHz)				790.5			
5	GPSK	1	0	24.38	24.44	24.43	25
5	GPSK	1	12	24.41	24.36	24.42	
5	GPSK	1	24	24.30	24.27	24.31	
5	GPSK	12	0	23.39	23.43	23.43	24
5	GPSK	12	7	23.49	23.44	23.47	
5	GPSK	12	13	23.55	23.46	23.55	
5	GPSK	25	0	23.42	23.43	23.48	24
5	16QAM	1	0	23.82	23.81	23.87	
5	16QAM	1	12	23.66	23.66	23.69	
5	16QAM	1	24	23.70	23.70	23.76	23
5	16QAM	12	0	22.50	22.41	22.41	
5	16QAM	12	7	22.41	22.50	22.46	
5	16QAM	12	13	22.51	22.49	22.51	23
5	16QAM	25	0	22.41	22.48	22.39	
5	64QAM	1	0	22.70	22.61	22.65	
5	64QAM	1	12	22.75	22.66	22.75	23
5	64QAM	1	24	22.60	22.63	22.54	
5	64QAM	12	0	21.51	21.47	21.46	
5	64QAM	12	7	21.44	21.47	21.47	22
5	64QAM	12	13	21.50	21.54	21.54	
5	64QAM	25	0	21.42	21.49	21.51	



Band 17							
Art 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				2370	2370	2300	
Frequency (MHz)				709	710	711	
10	GPSK	1	0	24.28	24.29	24.25	25
10	GPSK	1	25	24.33	24.32	24.31	
10	GPSK	1	49	24.38	24.37	24.32	
10	GPSK	25	0	23.38	23.38	23.37	24
10	GPSK	25	12	23.54	23.45	23.44	
10	GPSK	25	25	23.54	23.54	23.54	
10	GPSK	50	0	23.52	23.43	23.43	24
10	16QAM	1	0	23.65	23.64	23.64	
10	16QAM	1	25	23.69	23.69	23.71	
10	16QAM	1	49	23.71	23.73	23.70	23
10	16QAM	25	0	22.38	22.39	22.40	
10	16QAM	25	12	22.54	22.45	22.45	
10	16QAM	25	25	22.54	22.58	22.51	23
10	16QAM	50	0	22.52	22.43	22.41	
10	64QAM	1	0	22.56	22.51	22.53	
10	64QAM	1	25	22.64	22.64	22.66	23
10	64QAM	1	49	22.64	22.64	22.62	
10	64QAM	25	0	21.43	21.42	21.43	
10	64QAM	25	12	21.58	21.50	21.49	22
10	64QAM	25	25	21.57	21.55	21.57	
10	64QAM	50	0	21.54	21.46	21.44	
Channel				2375	2370	2305	
Frequency (MHz)				706.5	710	713.5	
5	GPSK	1	0	24.20	24.23	24.22	25
5	GPSK	1	12	24.23	24.32	24.28	
5	GPSK	1	24	24.31	24.33	24.27	
5	GPSK	12	0	23.33	23.29	23.31	24
5	GPSK	12	7	23.48	23.45	23.43	
5	GPSK	12	13	23.48	23.53	23.45	
5	GPSK	25	0	23.51	23.38	23.39	24
5	16QAM	1	0	23.63	23.62	23.59	
5	16QAM	1	12	23.68	23.61	23.68	
5	16QAM	1	24	23.68	23.73	23.65	23
5	16QAM	12	0	22.34	22.29	22.31	
5	16QAM	12	7	22.44	22.35	22.45	
5	16QAM	12	13	22.54	22.55	22.45	23
5	16QAM	25	0	22.42	22.40	22.35	
5	64QAM	1	0	22.48	22.44	22.53	
5	64QAM	1	12	22.60	22.54	22.62	23
5	64QAM	1	24	22.61	22.54	22.54	
5	64QAM	12	0	21.35	21.36	21.37	
5	64QAM	12	7	21.49	21.49	21.46	22
5	64QAM	12	13	21.55	21.47	21.54	
5	64QAM	25	0	21.52	21.42	21.43	



Band 25							
Art 2							
Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)
2610 1880 1905							
Frequency (MHz)							
20	QPSK	1	0	23.59	23.66	23.50	25
20	QPSK	1	49	23.51	23.81	23.40	
20	QPSK	1	99	23.45	23.54	23.30	
20	QPSK	50	0	23.34	23.41	23.26	24
20	QPSK	50	24	23.30	23.37	23.22	
20	QPSK	50	50	23.31	23.38	23.19	
20	QPSK	100	0	23.17	23.32	23.25	24
20	16QAM	1	0	23.28	23.30	23.16	
20	16QAM	1	49	23.19	23.25	23.05	
20	16QAM	1	99	23.13	23.20	22.96	23
20	16QAM	50	0	22.81	22.84	22.66	
20	16QAM	50	24	22.85	22.75	22.54	
20	16QAM	50	50	22.81	22.67	22.50	23
20	16QAM	100	0	22.64	22.62	22.53	
20	64QAM	1	0	22.71	22.80	22.44	
20	64QAM	1	49	22.72	22.81	22.56	23
20	64QAM	1	99	22.66	22.77	22.05	
20	64QAM	50	0	21.83	21.67	21.59	
20	64QAM	50	24	21.67	21.77	21.57	22
20	64QAM	50	50	21.63	21.70	21.45	
20	64QAM	100	0	21.65	21.67	21.37	
26115 26340 26515							
Frequency (MHz)							
15	QPSK	1	0	23.02	23.07	22.87	25
15	QPSK	1	37	22.90	23.00	22.82	
15	QPSK	1	74	22.89	22.98	22.74	
15	QPSK	36	0	23.01	23.04	22.98	24
15	QPSK	36	20	23.12	23.14	22.99	
15	QPSK	36	39	23.04	23.15	22.89	
15	QPSK	75	0	23.15	23.00	22.94	24
15	16QAM	1	0	23.38	23.40	23.25	
15	16QAM	1	37	23.31	23.33	23.13	
15	16QAM	1	74	23.16	23.22	23.08	23
15	16QAM	36	0	22.39	22.37	22.31	
15	16QAM	36	20	22.42	22.50	22.29	
15	16QAM	36	39	22.39	22.40	22.25	23
15	16QAM	75	0	22.36	22.31	22.29	
15	64QAM	1	0	22.44	22.55	22.44	
15	64QAM	1	37	22.51	22.53	22.34	23
15	64QAM	1	74	22.38	22.50	21.76	
15	64QAM	36	0	21.36	21.36	21.37	
15	64QAM	36	20	21.38	21.45	21.28	22
15	64QAM	36	39	21.36	21.48	21.16	
15	64QAM	75	0	21.40	21.37	21.11	
26500 26340 26540							
Frequency (MHz)							
10	QPSK	1	0	22.98	22.98	22.86	25
10	QPSK	1	25	22.91	22.99	22.83	
10	QPSK	1	49	22.81	22.85	22.71	
10	QPSK	25	0	23.02	23.04	22.98	24
10	QPSK	25	12	23.10	23.12	22.99	
10	QPSK	25	25	23.02	23.11	22.91	
10	QPSK	50	0	23.07	23.06	23.00	24
10	16QAM	1	0	23.38	23.41	23.23	
10	16QAM	1	25	23.27	23.33	23.09	
10	16QAM	1	49	23.16	23.23	23.02	23
10	16QAM	25	0	22.39	22.36	22.33	
10	16QAM	25	12	22.42	22.44	22.29	
10	16QAM	25	25	22.35	22.38	22.20	23
10	16QAM	50	0	22.37	22.34	22.28	
10	64QAM	1	0	22.49	22.55	22.38	
10	64QAM	1	25	22.44	22.53	22.33	23
10	64QAM	1	49	22.36	22.50	21.75	
10	64QAM	25	0	21.40	21.39	21.29	
10	64QAM	25	12	21.39	21.48	21.33	22
10	64QAM	25	25	21.38	21.46	21.15	
10	64QAM	50	0	21.39	21.41	21.08	
26555 26340 26555							
Frequency (MHz)							
5	QPSK	1	0	23.05	22.98	22.92	25
5	QPSK	1	12	22.94	23.01	22.79	
5	QPSK	1	24	22.85	22.94	22.72	
5	QPSK	12	0	23.08	23.08	23.03	24
5	QPSK	12	7	23.08	23.13	22.95	
5	QPSK	12	13	23.09	23.10	22.97	
5	QPSK	25	0	23.12	23.03	22.97	24
5	16QAM	1	0	23.31	23.39	23.25	
5	16QAM	1	12	23.21	23.34	23.08	
5	16QAM	1	24	23.25	23.28	23.06	23
5	16QAM	12	0	22.38	22.39	22.25	
5	16QAM	12	7	22.41	22.51	22.32	
5	16QAM	12	13	22.38	22.36	22.24	23
5	16QAM	25	0	22.41	22.37	22.22	
5	64QAM	1	0	22.51	22.49	22.44	
5	64QAM	1	12	22.46	22.58	22.34	23
5	64QAM	1	24	22.37	22.53	21.75	
5	64QAM	12	0	21.39	21.43	21.29	
5	64QAM	12	7	21.40	21.46	21.30	22
5	64QAM	12	13	21.38	21.47	21.19	
5	64QAM	25	0	21.35	21.41	21.11	
26547 26340 26583							
Frequency (MHz)							
1.4	QPSK	1	0	22.97	23.02	22.94	25
1.4	QPSK	1	3	22.90	22.97	22.77	
1.4	QPSK	1	5	22.87	22.94	22.70	
1.4	QPSK	3	0	22.83	22.92	22.87	24
1.4	QPSK	3	1	22.87	22.97	22.89	
1.4	QPSK	3	3	22.81	22.87	22.60	
1.4	QPSK	6	0	23.16	23.06	23.01	24
1.4	16QAM	1	0	23.33	23.34	23.25	
1.4	16QAM	1	3	23.22	23.34	23.17	
1.4	16QAM	1	5	23.18	23.28	23.06	24
1.4	16QAM	3	0	23.32	23.33	23.21	
1.4	16QAM	3	1	23.14	23.26	23.13	
1.4	16QAM	3	3	23.19	23.24	22.96	23
1.4	16QAM	6	0	22.37	22.37	22.27	
1.4	64QAM	1	0	22.51	22.53	22.44	
1.4	64QAM	1	3	22.42	22.53	22.29	23
1.4	64QAM	1	5	22.39	22.46	21.75	
1.4	64QAM	3	0	22.42	22.48	22.35	
1.4	64QAM	3	1	22.39	22.45	22.22	23
1.4	64QAM	3	3	22.36	22.41	21.74	
1.4	64QAM	6	0	21.39	21.35	21.12	



Band 30							
Art 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				27710			
Frequency (MHz)				2310			
10	GPSK	1	0		21.15		22.9
10	GPSK	1	25		21.16		
10	GPSK	1	49		21.11		
10	GPSK	25	0		20.91		22.9
10	GPSK	25	12		20.93		
10	GPSK	25	25		20.94		
10	GPSK	50	0		20.98		22.9
10	16QAM	1	0		20.99		
10	16QAM	1	25		20.96		
10	16QAM	1	49		20.91		22.9
10	16QAM	25	0		20.94		
10	16QAM	25	12		20.95		
10	16QAM	25	25		20.92		22.9
10	16QAM	50	0		20.94		
10	64QAM	1	0		21.03		
10	64QAM	1	25		21.12		22.9
10	64QAM	1	49		20.99		
10	64QAM	25	0		20.83		
10	64QAM	25	12		20.92		22
10	64QAM	25	25		20.93		
10	64QAM	50	0		20.91		
Channel				27665	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	GPSK	1	0	20.96	20.94	20.94	22.9
5	GPSK	1	12	20.94	20.95	20.94	
5	GPSK	1	24	20.98	20.97	20.92	
5	GPSK	12	0	20.92	20.92	20.95	22.9
5	GPSK	12	7	20.98	20.97	20.99	
5	GPSK	12	13	20.94	20.90	20.93	
5	GPSK	25	0	20.95	20.97	20.92	22.9
5	16QAM	1	0	20.91	20.92	20.92	
5	16QAM	1	12	20.92	20.91	20.96	
5	16QAM	1	24	20.90	20.92	20.92	22.9
5	16QAM	12	0	20.98	20.92	20.98	
5	16QAM	12	7	20.94	20.90	20.98	
5	16QAM	12	13	20.96	20.92	20.92	22.9
5	16QAM	25	0	20.93	20.98	20.94	
5	64QAM	1	0	21.00	20.98	21.04	
5	64QAM	1	12	21.10	21.06	21.11	22.9
5	64QAM	1	24	21.01	20.96	21.02	
5	64QAM	12	0	20.85	20.87	20.88	
5	64QAM	12	7	20.87	20.91	20.88	22
5	64QAM	12	13	20.81	20.87	20.88	
5	64QAM	25	0	20.90	20.90	20.95	



Band 66							
Ann 2							
Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)
Channel				132012	132022	132072	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.83	23.92	23.94	25
20	QPSK	1	49	23.77	23.89	23.83	
20	QPSK	1	99	23.78	23.82	23.75	
20	QPSK	50	0	23.19	23.29	23.25	24
20	QPSK	50	24	23.25	23.28	23.30	
20	QPSK	50	50	23.20	23.30	23.23	
20	QPSK	100	0	23.21	23.23	23.32	24
20	16QAM	1	0	23.41	23.59	23.60	
20	16QAM	1	49	23.41	23.52	23.48	
20	16QAM	1	99	23.46	23.43	23.35	23
20	16QAM	50	0	22.19	22.30	22.28	
20	16QAM	50	24	22.25	22.28	22.33	
20	16QAM	50	50	22.22	22.28	22.26	23
20	16QAM	100	0	22.21	22.25	22.33	
20	64QAM	1	0	22.31	22.44	22.44	
20	64QAM	1	49	22.26	22.32	22.35	23
20	64QAM	1	99	22.32	22.33	22.13	
20	64QAM	50	0	21.21	21.17	21.30	
20	64QAM	50	24	21.27	21.30	21.33	22
20	64QAM	50	50	21.23	21.30	21.25	
20	64QAM	100	0	21.25	21.28	21.33	
Channel				132047	132022	132097	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.73	23.82	23.87	25
15	QPSK	1	37	23.74	23.87	23.76	
15	QPSK	1	74	23.74	23.74	23.65	
15	QPSK	36	0	23.09	23.25	23.24	24
15	QPSK	36	20	23.22	23.18	23.20	
15	QPSK	36	39	23.14	23.28	23.18	
15	QPSK	75	0	23.17	23.21	23.23	24
15	16QAM	1	0	23.32	23.49	23.55	
15	16QAM	1	37	23.34	23.48	23.38	
15	16QAM	1	74	23.39	23.38	23.35	23
15	16QAM	36	0	22.18	22.23	22.25	
15	16QAM	36	20	22.21	22.17	22.27	
15	16QAM	36	39	22.16	22.18	22.21	23
15	16QAM	75	0	22.17	22.18	22.25	
15	64QAM	1	0	22.28	22.44	22.36	
15	64QAM	1	37	22.17	22.24	22.26	23
15	64QAM	1	74	22.31	22.29	22.11	
15	64QAM	36	0	21.13	21.16	21.29	
15	64QAM	36	20	21.28	21.25	21.24	22
15	64QAM	36	39	21.16	21.28	21.22	
15	64QAM	75	0	21.16	21.28	21.23	
Channel				132022	132022	132022	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.80	23.91	23.88	25
10	QPSK	1	25	23.68	23.84	23.75	
10	QPSK	1	49	23.72	23.73	23.75	
10	QPSK	25	0	23.18	23.19	23.25	24
10	QPSK	25	12	23.25	23.22	23.26	
10	QPSK	25	25	23.13	23.24	23.23	
10	QPSK	50	0	23.17	23.14	23.30	24
10	16QAM	1	0	23.34	23.54	23.54	
10	16QAM	1	25	23.37	23.50	23.41	
10	16QAM	1	49	23.43	23.33	23.34	23
10	16QAM	25	0	22.19	22.29	22.28	
10	16QAM	25	12	22.21	22.23	22.27	
10	16QAM	25	25	22.22	22.18	22.25	23
10	16QAM	50	0	22.17	22.20	22.23	
10	64QAM	1	0	22.30	22.34	22.36	
10	64QAM	1	25	22.18	22.25	22.26	23
10	64QAM	1	49	22.22	22.25	22.04	
10	64QAM	25	0	21.13	21.12	21.25	
10	64QAM	25	12	21.20	21.25	21.24	22
10	64QAM	25	25	21.14	21.26	21.25	
10	64QAM	50	0	21.16	21.28	21.23	
Channel				131987	132022	132067	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.79	23.87	23.89	25
5	QPSK	1	12	23.70	23.85	23.78	
5	QPSK	1	24	23.74	23.77	23.70	
5	QPSK	12	0	23.12	23.23	23.21	24
5	QPSK	12	7	23.19	23.17	23.20	
5	QPSK	12	13	23.17	23.28	23.17	
5	QPSK	25	0	23.15	23.17	23.22	24
5	16QAM	1	0	23.34	23.55	23.50	
5	16QAM	1	12	23.38	23.46	23.38	
5	16QAM	1	24	23.43	23.33	23.25	23
5	16QAM	12	0	22.18	22.27	22.26	
5	16QAM	12	7	22.25	22.19	22.24	
5	16QAM	12	13	22.12	22.19	22.18	23
5	16QAM	25	0	22.13	22.23	22.24	
5	64QAM	1	0	22.28	22.39	22.35	
5	64QAM	1	12	22.22	22.23	22.35	23
5	64QAM	1	24	22.24	22.28	22.13	
5	64QAM	12	0	21.19	21.15	21.22	
5	64QAM	12	7	21.22	21.30	21.25	22
5	64QAM	12	13	21.21	21.22	21.25	
5	64QAM	25	0	21.16	21.24	21.33	
Channel				131979	132022	132065	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.80	23.84	23.91	25
1.4	QPSK	1	3	23.73	23.85	23.81	
1.4	QPSK	1	5	23.74	23.76	23.70	
1.4	QPSK	3	0	23.80	23.80	23.81	24
1.4	QPSK	3	1	23.68	23.78	23.74	
1.4	QPSK	3	3	23.65	23.70	23.68	
1.4	QPSK	6	0	23.14	23.15	23.22	24
1.4	16QAM	1	0	23.38	23.56	23.51	
1.4	16QAM	1	3	23.37	23.52	23.41	
1.4	16QAM	1	5	23.46	23.39	23.32	24
1.4	16QAM	3	0	23.38	23.54	23.44	
1.4	16QAM	3	1	23.33	23.44	23.36	
1.4	16QAM	3	3	23.38	23.28	23.28	23
1.4	16QAM	6	0	22.12	22.20	22.23	
1.4	64QAM	1	0	22.28	22.35	22.40	
1.4	64QAM	1	3	22.22	22.22	22.26	23
1.4	64QAM	1	5	22.22	22.31	22.12	
1.4	64QAM	3	0	22.19	22.29	22.37	
1.4	64QAM	3	1	22.14	22.13	22.23	23
1.4	64QAM	3	3	22.21	22.24	22.10	
1.4	64QAM	6	0	21.24	21.27	21.32	



Band 71							
Art 0							
Channel	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)			
Channel				133222	133222	133272	
Frequency (MHz)				673	683	688	
20	GPSK	1	0	24.41	24.33	24.29	25
20	GPSK	1	49	24.30	24.32	24.32	
20	GPSK	1	99	24.34	24.33	24.28	
20	GPSK	50	0	23.98	23.49	23.45	24
20	GPSK	50	24	23.53	23.43	23.44	
20	GPSK	50	50	23.49	23.41	23.40	
20	GPSK	100	0	23.50	23.46	23.43	24
20	16QAM	1	0	23.77	23.66	23.61	
20	16QAM	1	49	23.65	23.69	23.67	
20	16QAM	1	99	23.67	23.70	23.59	23
20	16QAM	50	0	22.47	22.40	22.40	
20	16QAM	50	24	22.50	22.43	22.43	
20	16QAM	50	50	22.50	22.52	22.51	23
20	16QAM	100	0	22.49	22.42	22.47	
20	64QAM	1	0	22.58	22.44	22.45	
20	64QAM	1	49	22.54	22.54	22.55	23
20	64QAM	1	99	22.58	22.57	22.50	
20	64QAM	50	0	21.48	21.41	21.41	
20	64QAM	50	24	21.53	21.48	21.47	22
20	64QAM	50	50	21.49	21.54	21.55	
20	64QAM	100	0	21.52	21.41	21.49	
Channel				133197	133207	133297	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	GPSK	1	0	24.35	24.19	24.27	25
15	GPSK	1	37	24.23	24.29	24.26	
15	GPSK	1	74	24.34	24.28	24.20	
15	GPSK	36	0	23.98	23.31	23.33	24
15	GPSK	36	20	23.46	23.40	23.41	
15	GPSK	36	39	23.49	23.43	23.45	
15	GPSK	75	0	23.40	23.36	23.45	24
15	16QAM	1	0	23.73	23.62	23.53	
15	16QAM	1	37	23.58	23.63	23.59	
15	16QAM	1	74	23.66	23.69	23.57	23
15	16QAM	36	0	22.38	22.34	22.33	
15	16QAM	36	20	22.40	22.38	22.40	
15	16QAM	36	39	22.42	22.44	22.43	23
15	16QAM	75	0	22.45	22.40	22.42	
15	64QAM	1	0	22.63	22.38	22.45	
15	64QAM	1	37	22.45	22.54	22.54	23
15	64QAM	1	74	22.52	22.52	22.40	
15	64QAM	36	0	21.39	21.35	21.33	
15	64QAM	36	20	21.52	21.48	21.40	22
15	64QAM	36	39	21.41	21.53	21.50	
15	64QAM	75	0	21.45	21.32	21.49	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	683	
10	GPSK	1	0	24.32	24.26	24.27	25
10	GPSK	1	25	24.27	24.31	24.25	
10	GPSK	1	49	24.26	24.23	24.21	
10	GPSK	25	0	23.39	23.34	23.31	24
10	GPSK	25	12	23.51	23.38	23.36	
10	GPSK	25	25	23.47	23.43	23.45	
10	GPSK	50	0	23.41	23.34	23.42	24
10	16QAM	1	0	23.69	23.67	23.54	
10	16QAM	1	25	23.59	23.65	23.67	
10	16QAM	1	49	23.69	23.63	23.57	23
10	16QAM	25	0	22.42	22.40	22.40	
10	16QAM	25	12	22.43	22.39	22.43	
10	16QAM	25	25	22.43	22.43	22.50	23
10	16QAM	50	0	22.46	22.40	22.45	
10	64QAM	1	0	22.48	22.38	22.40	
10	64QAM	1	25	22.50	22.52	22.50	23
10	64QAM	1	49	22.58	22.53	22.49	
10	64QAM	25	0	21.42	21.41	21.37	
10	64QAM	25	12	21.48	21.48	21.42	22
10	64QAM	25	25	21.39	21.46	21.46	
10	64QAM	50	0	21.50	21.36	21.49	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	685.5	
5	GPSK	1	0	24.36	24.21	24.19	25
5	GPSK	1	12	24.24	24.27	24.29	
5	GPSK	1	24	24.28	24.23	24.21	
5	GPSK	12	0	23.42	23.37	23.35	24
5	GPSK	12	7	23.51	23.36	23.43	
5	GPSK	12	13	23.44	23.42	23.47	
5	GPSK	25	0	23.45	23.35	23.40	24
5	16QAM	1	0	23.72	23.61	23.54	
5	16QAM	1	12	23.56	23.69	23.67	
5	16QAM	1	24	23.68	23.62	23.55	23
5	16QAM	12	0	22.44	22.38	22.38	
5	16QAM	12	7	22.45	22.33	22.33	
5	16QAM	12	13	22.43	22.51	22.48	23
5	16QAM	25	0	22.41	22.39	22.40	
5	64QAM	1	0	22.48	22.36	22.40	
5	64QAM	1	12	22.47	22.52	22.55	23
5	64QAM	1	24	22.54	22.47	22.48	
5	64QAM	12	0	21.48	21.36	21.36	
5	64QAM	12	7	21.45	21.47	21.44	22
5	64QAM	12	13	21.45	21.47	21.53	
5	64QAM	25	0	21.42	21.37	21.49	



Band 5							
Art 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				20450	20525	20600	
Frequency (MHz)				826	836.5	844	
10	QPSK	1	0	24.29	24.26	24.33	25
10	QPSK	1	25	24.18	24.17	24.22	
10	QPSK	1	49	24.19	24.23	24.13	
10	QPSK	25	0	23.30	23.32	23.30	24
10	QPSK	25	12	23.38	23.31	23.30	
10	QPSK	25	25	23.34	23.36	23.35	
10	QPSK	50	0	23.39	23.39	23.32	24
10	16QAM	1	0	23.66	23.63	23.61	
10	16QAM	1	25	23.58	23.59	23.57	
10	16QAM	1	49	23.66	23.56	23.53	23
10	16QAM	25	0	22.32	22.33	22.28	
10	16QAM	25	12	22.39	22.29	22.30	
10	16QAM	25	25	22.36	22.35	22.36	23
10	16QAM	50	0	22.39	22.37	22.30	
10	64QAM	1	0	22.50	22.50	22.46	
10	64QAM	1	25	22.54	22.57	22.53	23
10	64QAM	1	49	22.48	22.51	21.71	
10	64QAM	25	0	21.34	21.35	21.33	
10	64QAM	25	12	21.42	21.38	21.36	22
10	64QAM	25	25	21.38	21.40	21.13	
10	64QAM	50	0	21.45	21.44	21.21	
Channel				20452	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.24	24.22	24.19	25
5	QPSK	1	12	24.11	24.16	24.16	
5	QPSK	1	24	24.19	24.14	24.12	
5	QPSK	12	0	23.24	23.27	23.24	24
5	QPSK	12	7	23.35	23.31	23.29	
5	QPSK	12	13	23.30	23.30	23.33	
5	QPSK	25	0	23.31	23.38	23.26	24
5	16QAM	1	0	23.64	23.60	23.60	
5	16QAM	1	12	23.50	23.53	23.56	
5	16QAM	1	24	23.66	23.56	23.53	23
5	16QAM	12	0	22.32	22.28	22.21	
5	16QAM	12	7	22.30	22.28	22.23	
5	16QAM	12	13	22.26	22.30	22.36	23
5	16QAM	25	0	22.34	22.34	22.27	
5	64QAM	1	0	22.44	22.43	22.38	
5	64QAM	1	12	22.45	22.53	22.47	23
5	64QAM	1	24	22.45	22.49	21.61	
5	64QAM	12	0	21.28	21.35	21.29	
5	64QAM	12	7	21.33	21.32	21.28	22
5	64QAM	12	13	21.33	21.31	21.09	
5	64QAM	25	0	21.41	21.38	21.16	
Channel				20415	20525	20633	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.25	24.25	24.29	25
3	QPSK	1	8	24.12	24.13	24.21	
3	QPSK	1	14	24.13	24.14	24.10	
3	QPSK	8	0	23.26	23.26	23.29	24
3	QPSK	8	4	23.30	23.35	23.26	
3	QPSK	8	7	23.24	23.34	23.26	
3	QPSK	15	0	23.31	23.29	23.22	24
3	16QAM	1	0	23.62	23.54	23.54	
3	16QAM	1	8	23.48	23.54	23.50	
3	16QAM	1	14	23.56	23.54	23.50	23
3	16QAM	8	0	22.29	22.30	22.25	
3	16QAM	8	4	22.38	22.22	22.25	
3	16QAM	8	7	22.30	22.35	22.37	23
3	16QAM	15	0	22.37	22.36	22.29	
3	64QAM	1	0	22.47	22.44	22.37	
3	64QAM	1	8	22.48	22.57	22.53	23
3	64QAM	1	14	22.45	22.45	21.68	
3	64QAM	8	0	21.29	21.29	21.27	
3	64QAM	8	4	21.38	21.32	21.33	22
3	64QAM	8	7	21.31	21.37	21.06	
3	64QAM	15	0	21.43	21.37	21.12	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.27	24.26	24.21	25
1.4	QPSK	1	3	24.13	24.16	24.21	
1.4	QPSK	1	5	24.16	24.18	24.13	
1.4	QPSK	3	0	24.19	24.26	24.12	24
1.4	QPSK	3	1	24.03	24.09	24.13	
1.4	QPSK	3	3	24.15	24.17	24.04	
1.4	QPSK	6	0	23.33	23.30	23.26	24
1.4	16QAM	1	0	23.66	23.56	23.52	
1.4	16QAM	1	3	23.49	23.51	23.47	
1.4	16QAM	1	5	23.49	23.49	23.46	24
1.4	16QAM	3	0	23.61	23.46	23.50	
1.4	16QAM	3	1	23.43	23.47	23.40	
1.4	16QAM	3	3	23.42	23.47	23.44	23
1.4	16QAM	6	0	22.31	22.30	22.29	
1.4	64QAM	1	0	22.43	22.46	22.40	
1.4	64QAM	1	3	22.47	22.55	22.52	23
1.4	64QAM	1	5	22.39	22.49	21.68	
1.4	64QAM	3	0	22.42	22.37	22.34	
1.4	64QAM	3	1	22.44	22.47	22.42	23
1.4	64QAM	3	3	22.36	22.44	21.60	
1.4	64QAM	6	0	21.35	21.38	21.14	



Band 7							
Ari 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				2050	2100	2350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	24.57	24.58	23.68	25
20	QPSK	1	49	24.54	24.55	23.54	
20	QPSK	1	99	24.58	24.62	24.68	
20	QPSK	50	0	23.63	23.67	23.29	24
20	QPSK	50	24	23.68	23.64	23.51	
20	QPSK	50	50	23.54	23.48	23.53	
20	QPSK	100	0	23.59	23.63	23.45	24
20	16QAM	1	0	23.88	23.62	23.05	
20	16QAM	1	49	23.41	23.63	22.78	
20	16QAM	1	99	23.95	23.68	23.69	23
20	16QAM	50	0	22.81	22.66	21.37	
20	16QAM	50	24	22.60	22.65	21.73	
20	16QAM	50	50	22.56	22.50	22.68	23
20	16QAM	100	0	22.69	22.64	22.02	
20	64QAM	1	0	22.68	22.67	21.14	
20	64QAM	1	49	22.40	22.47	21.68	23
20	64QAM	1	99	22.52	22.54	21.83	
20	64QAM	50	0	21.65	21.89	21.00	
20	64QAM	50	24	21.62	21.66	21.09	22
20	64QAM	50	50	21.69	21.64	20.66	
20	64QAM	100	0	20.91	20.92	20.05	
Channel				2092	2100	2137.5	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.61	23.68	23.67	25
15	QPSK	1	37	23.52	23.51	23.54	
15	QPSK	1	74	24.58	24.61	24.67	
15	QPSK	36	0	22.26	22.27	22.26	24
15	QPSK	36	20	22.65	22.65	22.65	
15	QPSK	36	39	23.43	23.50	23.50	
15	QPSK	75	0	22.90	22.87	22.93	24
15	16QAM	1	0	23.02	23.01	23.02	
15	16QAM	1	37	22.72	22.68	22.73	
15	16QAM	1	74	23.66	23.65	23.63	23
15	16QAM	36	0	21.28	21.31	21.30	
15	16QAM	36	20	21.68	21.73	21.73	
15	16QAM	36	39	22.61	22.60	22.67	23
15	16QAM	75	0	21.95	22.00	21.93	
15	64QAM	1	0	21.06	21.08	21.06	
15	64QAM	1	37	21.66	21.64	21.68	23
15	64QAM	1	74	21.74	21.73	21.74	
15	64QAM	36	0	20.83	21.00	20.99	
15	64QAM	36	20	21.09	21.04	20.99	22
15	64QAM	36	39	20.64	20.63	20.56	
15	64QAM	75	0	20.02	19.99	19.96	
Channel				2092	2100	2140.0	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.58	23.60	23.63	25
10	QPSK	1	25	23.54	23.44	23.53	
10	QPSK	1	49	24.63	24.60	24.67	
10	QPSK	25	0	22.24	22.27	22.21	24
10	QPSK	25	12	22.61	22.61	22.65	
10	QPSK	25	25	23.53	23.48	23.50	
10	QPSK	50	0	22.89	22.91	22.89	24
10	16QAM	1	0	22.95	23.04	23.03	
10	16QAM	1	25	22.68	22.69	22.75	
10	16QAM	1	49	23.60	23.65	23.69	23
10	16QAM	25	0	21.36	21.29	21.29	
10	16QAM	25	12	21.63	21.67	21.72	
10	16QAM	25	25	22.65	22.62	22.65	23
10	16QAM	50	0	22.02	21.92	21.92	
10	64QAM	1	0	21.09	21.09	21.05	
10	64QAM	1	25	21.66	21.64	21.60	23
10	64QAM	1	49	21.83	21.82	21.75	
10	64QAM	25	0	20.94	21.00	20.92	
10	64QAM	25	12	21.02	21.05	21.02	22
10	64QAM	25	25	20.66	20.63	20.60	
10	64QAM	50	0	20.05	19.99	19.96	
Channel				2077.5	2100	2142.5	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.58	23.65	23.64	25
5	QPSK	1	12	23.46	23.48	23.44	
5	QPSK	1	24	24.64	24.66	24.63	
5	QPSK	12	0	22.24	22.23	22.19	24
5	QPSK	12	7	22.67	22.68	22.69	
5	QPSK	12	13	23.43	23.44	23.43	
5	QPSK	25	0	22.91	22.86	22.91	24
5	16QAM	1	0	23.00	23.00	22.95	
5	16QAM	1	12	22.78	22.74	22.70	
5	16QAM	1	24	23.59	23.60	23.67	23
5	16QAM	12	0	21.31	21.31	21.30	
5	16QAM	12	7	21.73	21.71	21.68	
5	16QAM	12	13	22.65	22.62	22.65	23
5	16QAM	25	0	21.96	22.01	22.02	
5	64QAM	1	0	21.10	21.14	21.04	
5	64QAM	1	12	21.61	21.64	21.64	23
5	64QAM	1	24	21.82	21.83	21.79	
5	64QAM	12	0	20.99	20.99	20.94	
5	64QAM	12	7	21.03	20.99	21.04	22
5	64QAM	12	13	20.65	20.65	20.57	
5	64QAM	25	0	20.05	20.01	19.99	



Band 12									
Art 1									
Bandwidth [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)		
Channel				23060	23065	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	24.31	24.25	24.23			
10	QPSK	1	25	24.24	24.29	24.26		25	
10	QPSK	1	49	24.35	24.34	24.27			
10	QPSK	25	0	23.39	23.43	23.36			
10	QPSK	25	12	23.50	23.38	23.45		24	
10	QPSK	25	25	23.44	23.38	23.40			
10	QPSK	50	0	23.48	23.40	23.41			
10	16QAM	1	0	23.66	23.62	23.62			
10	16QAM	1	25	23.62	23.66	23.65		24	
10	16QAM	1	49	23.72	23.66	23.66			
10	16QAM	25	0	22.38	22.40	22.40			
10	16QAM	25	12	22.48	22.41	22.41		23	
10	16QAM	25	25	22.44	22.46	22.40			
10	16QAM	50	0	22.46	22.41	22.40			
10	64QAM	1	0	22.53	22.46	22.46			
10	64QAM	1	25	22.58	22.50	22.56		23	
10	64QAM	1	49	22.64	22.56	22.54			
10	64QAM	25	0	21.44	21.44	21.43			
10	64QAM	25	12	21.53	21.44	21.45		22	
10	64QAM	25	25	21.48	21.48	21.47			
10	64QAM	50	0	21.52	21.45	21.42			
Channel				23065	23065	23165		Tune-up limit (dBm)	
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.22	24.18	24.20			
5	QPSK	1	12	24.19	24.29	24.22		25	
5	QPSK	1	24	24.32	24.25	24.27			
5	QPSK	12	0	23.30	23.41	23.29			
5	QPSK	12	7	23.40	23.38	23.40		24	
5	QPSK	12	13	23.38	23.42	23.42			
5	QPSK	25	0	23.46	23.33	23.39			
5	16QAM	1	0	23.59	23.56	23.52			
5	16QAM	1	12	23.57	23.57	23.60		24	
5	16QAM	1	24	23.66	23.62	23.62			
5	16QAM	12	0	22.37	22.34	22.36			
5	16QAM	12	7	22.43	22.32	22.31		23	
5	16QAM	12	13	22.43	22.42	22.35			
5	16QAM	25	0	22.36	22.33	22.35			
5	64QAM	1	0	22.43	22.37	22.38			
5	64QAM	1	12	22.57	22.54	22.47		23	
5	64QAM	1	24	22.61	22.56	22.48			
5	64QAM	12	0	21.37	21.38	21.41			
5	64QAM	12	7	21.45	21.34	21.45		22	
5	64QAM	12	13	21.38	21.44	21.43			
5	64QAM	25	0	21.52	21.37	21.38			
Channel				23065	23065	23165		Tune-up limit (dBm)	
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.24	24.19	24.21			
3	QPSK	1	8	24.22	24.22	24.23		25	
3	QPSK	1	14	24.26	24.24	24.19			
3	QPSK	8	0	23.33	23.39	23.37			
3	QPSK	8	4	23.41	23.38	23.40		24	
3	QPSK	8	7	23.35	23.41	23.42			
3	QPSK	15	0	23.43	23.31	23.31			
3	16QAM	1	0	23.57	23.61	23.57			
3	16QAM	1	8	23.61	23.60	23.57		24	
3	16QAM	1	14	23.66	23.67	23.63			
3	16QAM	8	0	22.30	22.30	22.38			
3	16QAM	8	4	22.40	22.38	22.37		23	
3	16QAM	8	7	22.42	22.40	22.39			
3	16QAM	15	0	22.40	22.33	22.30			
3	64QAM	1	0	22.46	22.39	22.39			
3	64QAM	1	8	22.49	22.56	22.51		23	
3	64QAM	1	14	22.56	22.53	22.44			
3	64QAM	8	0	21.41	21.40	21.39			
3	64QAM	8	4	21.48	21.43	21.42		22	
3	64QAM	8	7	21.44	21.48	21.45			
3	64QAM	15	0	21.49	21.43	21.35			
Channel				23017	23065	23173		Tune-up limit (dBm)	
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.25	24.25	24.21			
1.4	QPSK	1	3	24.15	24.25	24.19		25	
1.4	QPSK	1	5	24.26	24.24	24.21			
1.4	QPSK	3	0	24.24	24.18	24.14			
1.4	QPSK	3	1	24.06	24.16	24.13		24	
1.4	QPSK	3	3	24.22	24.22	24.21			
1.4	QPSK	6	0	23.38	23.39	23.35			
1.4	16QAM	1	0	23.57	23.58	23.52			
1.4	16QAM	1	3	23.55	23.62	23.56		24	
1.4	16QAM	1	5	23.66	23.65	23.65			
1.4	16QAM	3	0	23.47	23.53	23.50			
1.4	16QAM	3	1	23.55	23.56	23.50		23	
1.4	16QAM	3	3	23.62	23.62	23.58			
1.4	16QAM	6	0	22.45	22.34	22.35			
1.4	64QAM	1	0	22.51	22.38	22.38			
1.4	64QAM	1	3	22.49	22.51	22.52		23	
1.4	64QAM	1	5	22.61	22.48	22.44			
1.4	64QAM	3	0	22.47	22.31	22.35			
1.4	64QAM	3	1	22.42	22.46	22.46		23	
1.4	64QAM	3	3	22.59	22.41	22.37			
1.4	64QAM	6	0	21.45	21.41	21.36		22	



Band 13							
Art 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				2329	762		
Frequency (MHz)							
10	QPSK	1	0		24.36		25
10	QPSK	1	25		24.38		
10	QPSK	1	49		24.47		
10	QPSK	25	0		23.43		24
10	QPSK	25	12		23.53		
10	QPSK	25	25		23.51		
10	QPSK	50	0		23.53		24
10	16QAM	1	0		23.71		
10	16QAM	1	25		23.74		
10	16QAM	1	49		23.74		23
10	16QAM	25	0		22.48		
10	16QAM	25	12		22.54		
10	16QAM	25	25		22.55		23
10	16QAM	50	0		22.50		
10	64QAM	1	0		22.65		
10	64QAM	1	25		22.71		23
10	64QAM	1	49		22.63		
10	64QAM	25	0		21.51		
10	64QAM	25	12		21.56		22
10	64QAM	25	25		21.56		
10	64QAM	50	0		21.53		
Channel				23295	23230	23295	Tune-up limit (dBm)
Frequency (MHz)				779.5	792	794.5	
5	QPSK	1	0	24.29	24.31	24.35	25
5	QPSK	1	12	24.30	24.32	24.33	
5	QPSK	1	24	24.43	24.42	24.45	
5	QPSK	12	0	23.42	23.43	23.40	24
5	QPSK	12	7	23.47	23.41	23.50	
5	QPSK	12	13	23.49	23.53	23.46	
5	QPSK	25	0	23.47	23.45	23.52	24
5	16QAM	1	0	23.66	23.66	23.62	
5	16QAM	1	12	23.65	23.70	23.68	
5	16QAM	1	24	23.64	23.74	23.67	23
5	16QAM	12	0	22.39	22.43	22.46	
5	16QAM	12	7	22.49	22.53	22.51	
5	16QAM	12	13	22.48	22.50	22.53	23
5	16QAM	25	0	22.47	22.40	22.49	
5	64QAM	1	0	22.60	22.56	22.56	
5	64QAM	1	12	22.67	22.65	22.65	23
5	64QAM	1	24	22.62	22.59	22.58	
5	64QAM	12	0	21.41	21.45	21.49	
5	64QAM	12	7	21.49	21.53	21.47	22
5	64QAM	12	13	21.56	21.53	21.55	
5	64QAM	25	0	21.48	21.46	21.47	



Band 14							
Art 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				2330			
Frequency (MHz)				793			
10	QPSK	1	0		24.41		25
10	QPSK	1	25		24.31		
10	QPSK	1	49		24.29		
10	QPSK	25	0		23.42		24
10	QPSK	25	12		23.41		
10	QPSK	25	25		23.47		
10	QPSK	50	0		23.40		24
10	16QAM	1	0		23.76		
10	16QAM	1	25		23.78		
10	16QAM	1	49		23.69		23
10	16QAM	25	0		22.40		
10	16QAM	25	12		22.44		
10	16QAM	25	25		22.45		23
10	16QAM	50	0		22.40		
10	64QAM	1	0		22.65		
10	64QAM	1	25		22.68		23
10	64QAM	1	49		22.59		
10	64QAM	25	0		21.45		
10	64QAM	25	12		21.48		22
10	64QAM	25	25		21.50		
10	64QAM	50	0		21.42		
Channel				2335			
Frequency (MHz)				793			
5	QPSK	1	0	24.39	24.32	24.35	25
5	QPSK	1	12	24.22	24.29	24.26	
5	QPSK	1	24	24.24	24.25	24.24	
5	QPSK	12	0	23.34	23.34	23.40	24
5	QPSK	12	7	23.34	23.33	23.38	
5	QPSK	12	13	23.44	23.43	23.46	
5	QPSK	25	0	23.37	23.31	23.32	24
5	16QAM	1	0	23.74	23.67	23.76	
5	16QAM	1	12	23.69	23.68	23.72	
5	16QAM	1	24	23.69	23.64	23.60	23
5	16QAM	12	0	22.30	22.32	22.35	
5	16QAM	12	7	22.38	22.34	22.44	
5	16QAM	12	13	22.36	22.36	22.36	23
5	16QAM	25	0	22.37	22.38	22.35	
5	64QAM	1	0	22.58	22.60	22.65	
5	64QAM	1	12	22.59	22.59	22.63	23
5	64QAM	1	24	22.53	22.51	22.48	
5	64QAM	12	0	21.38	21.43	21.37	
5	64QAM	12	7	21.47	21.39	21.47	22
5	64QAM	12	13	21.43	21.43	21.50	
5	64QAM	25	0	21.42	21.41	21.33	



Band 17							
Art 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				23780	23790	23800	
Frequency (MHz)				706	710	711	
10	QPSK	1	0	24.24	24.16	24.23	25
10	QPSK	1	25	24.23	24.25	24.30	
10	QPSK	1	49	24.28	24.31	24.29	
10	QPSK	25	0	23.33	23.33	23.36	24
10	QPSK	25	12	23.45	23.39	23.39	
10	QPSK	25	25	23.48	23.50	23.48	
10	QPSK	50	0	23.47	23.38	23.37	24
10	16QAM	1	0	23.59	23.61	23.61	
10	16QAM	1	25	23.64	23.66	23.66	
10	16QAM	1	49	23.72	23.70	23.69	23
10	16QAM	25	0	22.34	22.34	22.36	
10	16QAM	25	12	22.45	22.41	22.40	
10	16QAM	25	25	22.44	22.46	22.46	23
10	16QAM	50	0	22.46	22.39	22.38	
10	64QAM	1	0	22.50	22.46	22.47	
10	64QAM	1	25	22.60	22.59	22.59	23
10	64QAM	1	49	22.55	22.61	22.59	
10	64QAM	25	0	21.36	21.33	21.36	
10	64QAM	25	12	21.46	21.46	21.43	22
10	64QAM	25	25	21.50	21.51	21.50	
10	64QAM	50	0	21.51	21.43	21.41	
Channel				23755	23760	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.15	24.10	24.15	25
5	QPSK	1	12	24.17	24.18	24.29	
5	QPSK	1	24	24.18	24.29	24.19	
5	QPSK	12	0	23.33	23.28	23.28	24
5	QPSK	12	7	23.38	23.32	23.31	
5	QPSK	12	13	23.44	23.43	23.47	
5	QPSK	25	0	23.40	23.29	23.35	24
5	16QAM	1	0	23.54	23.61	23.59	
5	16QAM	1	12	23.54	23.64	23.65	
5	16QAM	1	24	23.65	23.66	23.63	23
5	16QAM	12	0	22.29	22.31	22.36	
5	16QAM	12	7	22.43	22.33	22.31	
5	16QAM	12	13	22.37	22.45	22.39	23
5	16QAM	25	0	22.36	22.33	22.33	
5	64QAM	1	0	22.44	22.41	22.46	
5	64QAM	1	12	22.51	22.51	22.56	23
5	64QAM	1	24	22.49	22.55	22.57	
5	64QAM	12	0	21.27	21.24	21.36	
5	64QAM	12	7	21.39	21.40	21.36	22
5	64QAM	12	13	21.42	21.51	21.44	
5	64QAM	25	0	21.43	21.37	21.32	



Band 30							
Ar1 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				27710			
Frequency (MHz)				2310			
10	QPSK	1	0	24.61			25
10	QPSK	1	25	24.65			
10	QPSK	1	49	24.62			
10	QPSK	25	0	23.62			24
10	QPSK	25	12	23.68			
10	QPSK	25	25	23.71			
10	QPSK	50	0	23.89			24
10	16QAM	1	0	23.99			
10	16QAM	1	25	23.93			
10	16QAM	1	49	23.96			23
10	16QAM	25	0	22.84			
10	16QAM	25	12	22.71			
10	16QAM	25	25	22.70			23
10	16QAM	50	0	22.70			
10	64QAM	1	0	22.62			
10	64QAM	1	25	22.90			23
10	64QAM	1	49	22.83			
10	64QAM	25	0	21.89			
10	64QAM	25	12	21.71			22
10	64QAM	25	25	21.75			
10	64QAM	50	0	21.70			
Channel				27885			
Frequency (MHz)				2307.5			
5	QPSK	1	0	24.53	24.51	24.55	25
5	QPSK	1	12	24.60	24.59	24.63	
5	QPSK	1	24	24.54	24.56	24.60	
5	QPSK	12	0	23.60	23.61	23.57	24
5	QPSK	12	7	23.62	23.64	23.59	
5	QPSK	12	13	23.68	23.63	23.64	
5	QPSK	25	0	23.82	23.84	23.83	24
5	16QAM	1	0	23.93	23.96	23.93	
5	16QAM	1	12	23.93	23.88	23.88	
5	16QAM	1	24	23.93	23.89	23.92	23
5	16QAM	12	0	22.54	22.59	22.60	
5	16QAM	12	7	22.68	22.65	22.71	
5	16QAM	12	13	22.65	22.64	22.67	23
5	16QAM	25	0	22.63	22.67	22.62	
5	64QAM	1	0	22.81	22.75	22.76	
5	64QAM	1	12	22.81	22.86	22.82	23
5	64QAM	1	24	22.80	22.77	22.80	
5	64QAM	12	0	21.65	21.63	21.60	
5	64QAM	12	7	21.64	21.63	21.63	22
5	64QAM	12	13	21.69	21.73	21.68	
5	64QAM	25	0	21.70	21.65	21.63	



Band 71									
Art 1									
Bandwidth [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)		
Channel				13322	13322	13322			
Frequency (MHz)				675	683	688			
20	QPSK	1	0	24.40	24.34	24.28			
20	QPSK	1	49	24.30	24.32	24.31	25		
20	QPSK	1	99	24.30	24.30	24.26			
20	QPSK	50	0	23.45	23.52	23.39			
20	QPSK	50	24	23.42	23.42	23.46	24		
20	QPSK	50	50	23.50	23.51	23.50			
20	QPSK	100	0	23.48	23.44	23.48			
20	16QAM	1	0	23.72	23.62	23.64			
20	16QAM	1	49	23.65	23.69	23.65	24		
20	16QAM	1	99	23.65	23.69	23.62			
20	16QAM	50	0	22.47	22.42	22.46			
20	16QAM	50	24	22.52	22.45	22.42	23		
20	16QAM	50	50	22.51	22.53	22.49			
20	16QAM	100	0	22.46	22.42	22.47			
20	64QAM	1	0	22.60	22.50	22.48			
20	64QAM	1	49	22.50	22.55	22.52	23		
20	64QAM	1	99	22.57	22.59	22.50			
20	64QAM	50	0	21.49	21.40	21.41			
20	64QAM	50	24	21.52	21.47	21.46	22		
20	64QAM	50	50	21.49	21.53	21.52			
20	64QAM	100	0	21.53	21.41	21.49			
Channel				133197	133207	133197	Tune-up limit (dBm)		
Frequency (MHz)				670.5	680.5	690.5			
15	QPSK	1	0	24.33	24.29	24.18			
15	QPSK	1	37	24.27	24.24	24.25	25		
15	QPSK	1	74	24.24	24.34	24.17			
15	QPSK	36	0	23.39	23.37	23.31			
15	QPSK	36	20	23.62	23.38	23.42	24		
15	QPSK	36	39	23.49	23.51	23.47			
15	QPSK	75	0	23.48	23.36	23.41			
15	16QAM	1	0	23.89	23.58	23.59			
15	16QAM	1	37	23.59	23.66	23.58	24		
15	16QAM	1	74	23.65	23.66	23.53			
15	16QAM	36	0	22.43	22.37	22.36			
15	16QAM	36	20	22.45	22.36	22.35	23		
15	16QAM	36	39	22.50	22.43	22.47			
15	16QAM	75	0	22.38	22.42	22.39			
15	64QAM	1	0	22.50	22.43	22.36			
15	64QAM	1	37	22.46	22.45	22.49	23		
15	64QAM	1	74	22.53	22.50	22.43			
15	64QAM	36	0	21.47	21.37	21.37			
15	64QAM	36	20	21.47	21.40	21.38	22		
15	64QAM	36	39	21.41	21.48	21.43			
15	64QAM	75	0	21.46	21.32	21.46			
Channel				133172	133272	133422	Tune-up limit (dBm)		
Frequency (MHz)				666	676	693			
10	QPSK	1	0	24.35	24.30	24.18			
10	QPSK	1	25	24.27	24.27	24.23	25		
10	QPSK	1	49	24.20	24.25	24.24			
10	QPSK	25	0	23.45	23.42	23.32			
10	QPSK	25	12	23.62	23.32	23.37	24		
10	QPSK	25	25	23.42	23.47	23.44			
10	QPSK	50	0	23.46	23.36	23.43			
10	16QAM	1	0	23.64	23.60	23.60			
10	16QAM	1	25	23.63	23.63	23.57	24		
10	16QAM	1	49	23.57	23.62	23.52			
10	16QAM	25	0	22.43	22.36	22.37			
10	16QAM	25	12	22.49	22.36	22.32	23		
10	16QAM	25	25	22.46	22.52	22.43			
10	16QAM	50	0	22.36	22.41	22.43			
10	64QAM	1	0	22.55	22.43	22.46			
10	64QAM	1	25	22.43	22.47	22.52	23		
10	64QAM	1	49	22.50	22.54	22.42			
10	64QAM	25	0	21.43	21.37	21.35			
10	64QAM	25	12	21.46	21.37	21.37	22		
10	64QAM	25	25	21.44	21.52	21.50			
10	64QAM	50	0	21.47	21.32	21.46			
Channel				133147	133247	133417	Tune-up limit (dBm)		
Frequency (MHz)				666.5	676.5	696.5			
5	QPSK	1	0	24.32	24.25	24.23			
5	QPSK	1	12	24.23	24.28	24.28	25		
5	QPSK	1	24	24.22	24.24	24.18			
5	QPSK	12	0	23.43	23.37	23.36			
5	QPSK	12	7	23.48	23.36	23.36	24		
5	QPSK	12	13	23.50	23.45	23.42			
5	QPSK	25	0	23.47	23.39	23.43			
5	16QAM	1	0	23.65	23.62	23.61			
5	16QAM	1	12	23.59	23.66	23.64	24		
5	16QAM	1	24	23.59	23.67	23.53			
5	16QAM	12	0	22.38	22.42	22.38			
5	16QAM	12	7	22.42	22.39	22.34	23		
5	16QAM	12	13	22.46	22.48	22.45			
5	16QAM	25	0	22.42	22.34	22.37			
5	64QAM	1	0	22.51	22.45	22.46			
5	64QAM	1	12	22.50	22.52	22.43	23		
5	64QAM	1	24	22.47	22.57	22.46			
5	64QAM	12	0	21.48	21.36	21.40			
5	64QAM	12	7	21.44	21.41	21.45	22		
5	64QAM	12	13	21.46	21.51	21.42			
5	64QAM	25	0	21.43	21.36	21.41			



Band 5							
Art 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				2050	2052	2050	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.40	24.37	24.38	25
10	QPSK	1	25	24.27	24.29	24.30	
10	QPSK	1	49	24.32	24.33	24.28	
10	QPSK	25	0	23.43	23.41	23.40	24
10	QPSK	25	12	23.49	23.41	23.42	
10	QPSK	25	25	23.46	23.44	23.45	
10	QPSK	50	0	23.50	23.50	23.39	24
10	16QAM	1	0	23.77	23.74	23.72	
10	16QAM	1	25	23.69	23.70	23.66	
10	16QAM	1	49	23.69	23.66	23.61	23
10	16QAM	25	0	22.44	22.42	22.40	
10	16QAM	25	12	22.52	22.41	22.39	
10	16QAM	25	25	22.46	22.43	22.40	23
10	16QAM	50	0	22.53	22.48	22.41	
10	64QAM	1	0	22.68	22.56	22.57	
10	64QAM	1	25	22.64	22.63	22.46	23
10	64QAM	1	49	22.66	22.60	22.11	
10	64QAM	25	0	21.44	21.43	21.45	
10	64QAM	25	12	21.55	21.44	21.45	22
10	64QAM	25	25	21.51	21.48	21.08	
10	64QAM	50	0	21.54	21.52	21.32	
Channel				20425	20525	20525	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.34	24.37	24.34	25
5	QPSK	1	12	24.22	24.21	24.22	
5	QPSK	1	24	24.24	24.31	24.26	
5	QPSK	12	0	23.38	23.35	23.35	24
5	QPSK	12	7	23.46	23.31	23.33	
5	QPSK	12	13	23.37	23.39	23.41	
5	QPSK	25	0	23.42	23.43	23.31	24
5	16QAM	1	0	23.73	23.68	23.71	
5	16QAM	1	12	23.66	23.70	23.59	
5	16QAM	1	24	23.64	23.66	23.59	23
5	16QAM	12	0	22.37	22.37	22.33	
5	16QAM	12	7	22.46	22.41	22.33	
5	16QAM	12	13	22.38	22.35	22.33	23
5	16QAM	25	0	22.48	22.38	22.39	
5	64QAM	1	0	22.48	22.58	22.50	
5	64QAM	1	12	22.61	22.68	22.41	23
5	64QAM	1	24	22.64	22.62	22.07	
5	64QAM	12	0	21.36	21.34	21.44	
5	64QAM	12	7	21.55	21.40	21.43	22
5	64QAM	12	13	21.45	21.48	21.05	
5	64QAM	25	0	21.44	21.52	21.25	
Channel				20415	20525	20535	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.32	24.27	24.32	25
3	QPSK	1	8	24.19	24.23	24.30	
3	QPSK	1	14	24.26	24.27	24.25	
3	QPSK	8	0	23.42	23.41	23.31	24
3	QPSK	8	4	23.46	23.37	23.35	
3	QPSK	8	7	23.37	23.39	23.35	
3	QPSK	15	0	23.42	23.49	23.36	24
3	16QAM	1	0	23.72	23.66	23.69	
3	16QAM	1	8	23.66	23.65	23.65	
3	16QAM	1	14	23.65	23.59	23.56	23
3	16QAM	8	0	22.44	22.32	22.36	
3	16QAM	8	4	22.51	22.33	22.34	
3	16QAM	8	7	22.46	22.43	22.34	23
3	16QAM	15	0	22.53	22.44	22.37	
3	64QAM	1	0	22.61	22.54	22.47	
3	64QAM	1	8	22.57	22.63	22.44	23
3	64QAM	1	14	22.48	22.50	22.09	
3	64QAM	8	0	21.39	21.40	21.40	
3	64QAM	8	4	21.46	21.43	21.35	22
3	64QAM	8	7	21.51	21.45	21.05	
3	64QAM	15	0	21.45	21.43	21.27	
Channel				20407	20525	20543	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.30	24.33	24.36	25
1.4	QPSK	1	3	24.20	24.24	24.27	
1.4	QPSK	1	5	24.32	24.29	24.24	
1.4	QPSK	3	0	24.22	24.32	24.32	24
1.4	QPSK	3	1	24.10	24.04	24.27	
1.4	QPSK	3	3	24.29	24.19	24.18	
1.4	QPSK	6	0	23.44	23.41	23.30	24
1.4	16QAM	1	0	23.76	23.71	23.70	
1.4	16QAM	1	3	23.62	23.63	23.56	
1.4	16QAM	1	5	23.63	23.61	23.60	24
1.4	16QAM	3	0	23.76	23.64	23.63	
1.4	16QAM	3	1	23.63	23.65	23.60	
1.4	16QAM	3	3	23.60	23.65	23.54	23
1.4	16QAM	6	0	22.62	22.40	22.40	
1.4	64QAM	1	0	22.62	22.62	22.62	
1.4	64QAM	1	3	22.64	22.67	22.45	23
1.4	64QAM	1	5	22.63	22.50	22.01	
1.4	64QAM	3	0	22.44	22.48	22.50	
1.4	64QAM	3	1	22.61	22.62	22.42	23
1.4	64QAM	3	3	22.62	22.49	21.96	
1.4	64QAM	6	0	21.49	21.60	21.32	



Band 7							
Art 2							
Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)
Channel				2050	2100	2150	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.56	17.69	17.74	18.7
20	QPSK	1	49	17.44	17.41	17.57	
20	QPSK	1	99	17.46	17.32	17.62	
20	QPSK	50	0	17.48	17.49	17.50	18.7
20	QPSK	50	24	17.30	17.46	17.33	
20	QPSK	50	50	17.25	17.40	17.34	
20	QPSK	100	0	17.42	17.33	17.45	18.7
20	16QAM	1	0	17.40	17.49	17.43	
20	16QAM	1	49	17.54	17.60	17.60	
20	16QAM	1	99	17.60	17.52	17.34	18.7
20	16QAM	50	0	17.51	17.34	17.52	
20	16QAM	50	24	17.58	17.31	17.55	
20	16QAM	50	50	17.22	17.27	17.54	18.7
20	16QAM	100	0	17.57	17.45	17.45	
20	64QAM	1	0	17.50	17.23	17.52	
20	64QAM	1	49	17.21	17.25	17.25	18.7
20	64QAM	1	99	17.27	17.22	17.52	
20	64QAM	50	0	17.44	17.27	17.53	
20	64QAM	50	24	17.46	17.35	17.44	18.7
20	64QAM	50	50	17.53	17.59	17.34	
20	64QAM	100	0	17.21	17.29	17.53	
Channel				20625	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.55	17.40	17.24	18.7
15	QPSK	1	37	17.30	17.40	17.49	
15	QPSK	1	74	17.58	17.20	17.56	
15	QPSK	36	0	17.36	17.50	17.40	18.7
15	QPSK	36	20	17.47	17.49	17.29	
15	QPSK	36	39	17.24	17.50	17.57	
15	QPSK	75	0	17.20	17.47	17.55	18.7
15	16QAM	1	0	17.60	17.27	17.60	
15	16QAM	1	37	17.60	17.24	17.35	
15	16QAM	1	74	17.59	17.53	17.41	18.7
15	16QAM	36	0	17.28	17.54	17.69	
15	16QAM	36	20	17.39	17.25	17.57	
15	16QAM	36	39	17.31	17.36	17.48	18.7
15	16QAM	75	0	17.52	17.53	17.32	
15	64QAM	1	0	17.23	17.22	17.38	
15	64QAM	1	37	17.36	17.54	17.41	18.7
15	64QAM	1	74	17.36	17.30	17.45	
15	64QAM	36	0	17.45	17.24	17.35	
15	64QAM	36	20	17.24	17.29	17.51	18.7
15	64QAM	36	39	17.55	17.29	17.49	
15	64QAM	75	0	17.55	17.44	17.43	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	17.55	17.40	17.24	18.7
10	QPSK	1	25	17.30	17.40	17.49	
10	QPSK	1	49	17.58	17.20	17.56	
10	QPSK	25	0	17.36	17.50	17.40	18.7
10	QPSK	25	12	17.47	17.49	17.29	
10	QPSK	25	25	17.24	17.50	17.57	
10	QPSK	50	0	17.20	17.47	17.55	18.7
10	16QAM	1	0	17.60	17.27	17.60	
10	16QAM	1	25	17.60	17.24	17.35	
10	16QAM	1	49	17.59	17.53	17.41	18.7
10	16QAM	25	0	17.28	17.54	17.69	
10	16QAM	25	12	17.39	17.25	17.57	
10	16QAM	25	25	17.31	17.36	17.48	18.7
10	16QAM	50	0	17.52	17.53	17.32	
10	64QAM	1	0	17.23	17.22	17.38	
10	64QAM	1	25	17.36	17.54	17.41	18.7
10	64QAM	1	49	17.36	17.30	17.45	
10	64QAM	25	0	17.45	17.24	17.35	
10	64QAM	25	12	17.24	17.29	17.51	18.7
10	64QAM	25	25	17.55	17.29	17.49	
10	64QAM	50	0	17.55	17.44	17.43	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	17.26	17.60	17.28	18.7
5	QPSK	1	12	17.57	17.27	17.44	
5	QPSK	1	24	17.23	17.36	17.36	
5	QPSK	12	0	17.32	17.41	17.31	18.7
5	QPSK	12	7	17.28	17.36	17.24	
5	QPSK	12	13	17.56	17.49	17.42	
5	QPSK	25	0	17.27	17.46	17.38	18.7
5	16QAM	1	0	17.28	17.57	17.21	
5	16QAM	1	12	17.39	17.52	17.44	
5	16QAM	1	24	17.29	17.48	17.21	18.7
5	16QAM	12	0	17.40	17.48	17.38	
5	16QAM	12	7	17.58	17.37	17.37	
5	16QAM	12	13	17.59	17.51	17.30	18.7
5	16QAM	25	0	17.29	17.55	17.21	
5	64QAM	1	0	17.33	17.60	17.45	
5	64QAM	1	12	17.20	17.22	17.50	18.7
5	64QAM	1	24	17.49	17.60	17.56	
5	64QAM	12	0	17.39	17.25	17.46	
5	64QAM	12	7	17.40	17.48	17.44	18.7
5	64QAM	12	13	17.43	17.22	17.27	
5	64QAM	25	0	17.54	17.38	17.38	



Band 12							
Art 0							
Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)
Channel				2300	2306	2332	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	24.32	24.27	24.27	25
10	QPSK	1	25	24.30	24.30	24.33	
10	QPSK	1	49	24.37	24.38	24.31	
10	QPSK	25	0	23.43	23.46	23.43	24
10	QPSK	25	12	23.50	23.42	23.45	
10	QPSK	25	25	23.51	23.53	23.50	
10	QPSK	50	0	23.52	23.46	23.47	24
10	16QAM	1	0	23.73	23.65	23.64	
10	16QAM	1	25	23.70	23.72	23.69	
10	16QAM	1	49	23.77	23.74	23.72	23
10	16QAM	25	0	22.44	22.46	22.47	
10	16QAM	25	12	22.51	22.47	22.46	
10	16QAM	25	25	22.49	22.51	22.51	23
10	16QAM	50	0	22.53	22.47	22.44	
10	64QAM	1	0	22.63	22.47	22.49	
10	64QAM	1	25	22.61	22.64	22.61	23
10	64QAM	1	49	22.67	22.60	22.60	
10	64QAM	25	0	21.46	21.47	21.46	
10	64QAM	25	12	21.56	21.49	21.49	22
10	64QAM	25	25	21.51	21.55	21.53	
10	64QAM	50	0	21.55	21.48	21.49	
Channel				2306	2306	2310	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	24.31	24.26	24.21	25
5	QPSK	1	12	24.22	24.21	24.24	
5	QPSK	1	24	24.36	24.30	24.25	
5	QPSK	12	0	23.40	23.46	23.42	24
5	QPSK	12	7	23.46	23.40	23.41	
5	QPSK	12	13	23.48	23.43	23.46	
5	QPSK	25	0	23.48	23.42	23.47	24
5	16QAM	1	0	23.71	23.63	23.59	
5	16QAM	1	12	23.69	23.62	23.61	
5	16QAM	1	24	23.76	23.73	23.65	23
5	16QAM	12	0	22.34	22.38	22.43	
5	16QAM	12	7	22.46	22.43	22.43	
5	16QAM	12	13	22.39	22.43	22.45	23
5	16QAM	25	0	22.47	22.44	22.36	
5	64QAM	1	0	22.48	22.46	22.49	
5	64QAM	1	12	22.58	22.61	22.57	23
5	64QAM	1	24	22.63	22.50	22.54	
5	64QAM	12	0	21.38	21.40	21.46	
5	64QAM	12	7	21.55	21.46	21.45	22
5	64QAM	12	13	21.46	21.51	21.43	
5	64QAM	25	0	21.49	21.48	21.49	
Channel				2306	2306	2310	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	24.28	24.17	24.21	25
3	QPSK	1	8	24.20	24.29	24.27	
3	QPSK	1	14	24.32	24.28	24.23	
3	QPSK	8	0	23.40	23.38	23.39	24
3	QPSK	8	4	23.44	23.41	23.40	
3	QPSK	8	7	23.41	23.42	23.50	
3	QPSK	15	0	23.42	23.38	23.38	24
3	16QAM	1	0	23.71	23.56	23.63	
3	16QAM	1	8	23.61	23.68	23.63	
3	16QAM	1	14	23.73	23.73	23.72	23
3	16QAM	8	0	22.41	22.37	22.41	
3	16QAM	8	4	22.42	22.45	22.45	
3	16QAM	8	7	22.46	22.43	22.51	23
3	16QAM	15	0	22.51	22.45	22.43	
3	64QAM	1	0	22.48	22.37	22.40	
3	64QAM	1	8	22.56	22.60	22.56	23
3	64QAM	1	14	22.59	22.51	22.60	
3	64QAM	8	0	21.40	21.37	21.47	
3	64QAM	8	4	21.48	21.43	21.49	22
3	64QAM	8	7	21.51	21.54	21.44	
3	64QAM	15	0	21.54	21.45	21.41	
Channel				2307	2306	2310	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	716.3	
1.4	QPSK	1	0	24.29	24.18	24.23	25
1.4	QPSK	1	3	24.24	24.30	24.29	
1.4	QPSK	1	5	24.29	24.28	24.27	
1.4	QPSK	3	0	24.23	24.11	24.15	24
1.4	QPSK	3	1	24.14	24.22	24.23	
1.4	QPSK	3	3	24.19	24.18	24.22	
1.4	QPSK	6	0	23.51	23.37	23.41	24
1.4	16QAM	1	0	23.69	23.60	23.63	
1.4	16QAM	1	3	23.66	23.68	23.65	
1.4	16QAM	1	5	23.75	23.69	23.68	24
1.4	16QAM	3	0	23.65	23.50	23.63	
1.4	16QAM	3	1	23.62	23.63	23.61	
1.4	16QAM	3	3	23.69	23.62	23.58	23
1.4	16QAM	6	0	22.44	22.44	22.35	
1.4	64QAM	1	0	22.48	22.47	22.48	
1.4	64QAM	1	3	22.55	22.61	22.61	23
1.4	64QAM	1	5	22.58	22.53	22.57	
1.4	64QAM	3	0	22.38	22.40	22.40	
1.4	64QAM	3	1	22.51	22.59	22.52	23
1.4	64QAM	3	3	22.58	22.53	22.53	
1.4	64QAM	6	0	21.60	21.38	21.46	



Band 13							
Art 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				2320			
Frequency (MHz)				782			
10	GPSK	1	0	24.62			25
10	GPSK	1	25	24.48			
10	GPSK	1	49	24.45			
10	GPSK	25	0	23.54			24
10	GPSK	25	12	23.56			
10	GPSK	25	25	23.61			
10	GPSK	50	0	23.60			24
10	16QAM	1	0	23.79			
10	16QAM	1	25	23.62			
10	16QAM	1	49	23.62			23
10	16QAM	25	0	22.56			
10	16QAM	25	12	22.62			
10	16QAM	25	25	22.63			23
10	16QAM	50	0	22.58			
10	64QAM	1	0	22.74			
10	64QAM	1	25	22.72			23
10	64QAM	1	49	22.75			
10	64QAM	25	0	21.58			
10	64QAM	25	12	21.64			22
10	64QAM	25	25	21.64			
10	64QAM	50	0	21.59			
Channel				23205			
Frequency (MHz)				779.5			
5	GPSK	1	0	24.38	24.36	24.39	25
5	GPSK	1	12	24.43	24.48	24.40	
5	GPSK	1	24	24.47	24.48	24.42	
5	GPSK	12	0	23.93	23.45	23.50	24
5	GPSK	12	7	23.96	23.56	23.47	
5	GPSK	12	13	23.67	23.60	23.54	
5	GPSK	25	0	23.51	23.55	23.59	24
5	16QAM	1	0	23.69	23.74	23.76	
5	16QAM	1	12	23.61	23.72	23.77	
5	16QAM	1	24	23.60	23.72	23.73	23
5	16QAM	12	0	22.51	22.50	22.53	
5	16QAM	12	7	22.54	22.55	22.60	
5	16QAM	12	13	22.61	22.56	22.60	23
5	16QAM	25	0	22.50	22.52	22.56	
5	64QAM	1	0	22.71	22.65	22.72	
5	64QAM	1	12	22.71	22.65	22.64	23
5	64QAM	1	24	22.75	22.65	22.66	
5	64QAM	12	0	21.55	21.50	21.51	
5	64QAM	12	7	21.58	21.63	21.56	22
5	64QAM	12	13	21.63	21.57	21.59	
5	64QAM	25	0	21.59	21.49	21.59	



Band 14							
Art 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				2330			
Frequency (MHz)				793			
10	GPSK	1	0	24.45			25
10	GPSK	1	25	24.40			
10	GPSK	1	49	24.35			
10	GPSK	25	0	23.49			24
10	GPSK	25	12	23.32			
10	GPSK	25	25	23.56			
10	GPSK	50	0	23.48			24
10	16QAM	1	0	23.89			
10	16QAM	1	25	23.76			
10	16QAM	1	49	23.76			23
10	16QAM	25	0	22.50			
10	16QAM	25	12	22.51			
10	16QAM	25	25	22.54			23
10	16QAM	50	0	22.48			
10	64QAM	1	0	22.70			
10	64QAM	1	25	22.76			22
10	64QAM	1	49	22.63			
10	64QAM	25	0	21.53			
10	64QAM	25	12	21.53			22
10	64QAM	25	25	21.59			
10	64QAM	50	0	21.51			
Channel				23305			
Frequency (MHz)				790.5			
5	GPSK	1	0	24.38	24.44	24.43	25
5	GPSK	1	12	24.41	24.36	24.42	
5	GPSK	1	24	24.30	24.27	24.31	
5	GPSK	12	0	23.39	23.43	23.43	24
5	GPSK	12	7	23.49	23.44	23.47	
5	GPSK	12	13	23.55	23.46	23.55	
5	GPSK	25	0	23.42	23.43	23.48	24
5	16QAM	1	0	23.82	23.81	23.87	
5	16QAM	1	12	23.66	23.66	23.69	
5	16QAM	1	24	23.70	23.70	23.76	23
5	16QAM	12	0	22.50	22.41	22.41	
5	16QAM	12	7	22.41	22.50	22.46	
5	16QAM	12	13	22.51	22.49	22.51	23
5	16QAM	25	0	22.41	22.48	22.39	
5	64QAM	1	0	22.70	22.61	22.65	
5	64QAM	1	12	22.75	22.66	22.75	23
5	64QAM	1	24	22.60	22.63	22.54	
5	64QAM	12	0	21.51	21.47	21.46	
5	64QAM	12	7	21.44	21.47	21.47	22
5	64QAM	12	13	21.50	21.54	21.54	
5	64QAM	25	0	21.42	21.49	21.51	



Band 17							
Art 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq	
Channel				2370	2370	2300	
Frequency (MHz)				709	710	711	
10	GPSK	1	0	24.28	24.29	24.25	25
10	GPSK	1	25	24.33	24.32	24.31	
10	GPSK	1	49	24.38	24.37	24.32	
10	GPSK	25	0	23.38	23.38	23.37	24
10	GPSK	25	12	23.54	23.45	23.44	
10	GPSK	25	25	23.54	23.54	23.54	
10	GPSK	50	0	23.52	23.43	23.43	24
10	16QAM	1	0	23.65	23.64	23.64	
10	16QAM	1	25	23.69	23.69	23.71	
10	16QAM	1	49	23.71	23.73	23.70	23
10	16QAM	25	0	22.38	22.39	22.40	
10	16QAM	25	12	22.54	22.45	22.45	
10	16QAM	25	25	22.54	22.58	22.51	23
10	16QAM	50	0	22.52	22.43	22.41	
10	64QAM	1	0	22.56	22.51	22.53	
10	64QAM	1	25	22.64	22.64	22.66	23
10	64QAM	1	49	22.64	22.64	22.62	
10	64QAM	25	0	21.43	21.42	21.43	
10	64QAM	25	12	21.58	21.50	21.49	22
10	64QAM	25	25	21.57	21.55	21.57	
10	64QAM	50	0	21.54	21.46	21.44	
Channel				2375	2370	2305	
Frequency (MHz)				706.5	710	713.5	
5	GPSK	1	0	24.20	24.23	24.22	25
5	GPSK	1	12	24.23	24.32	24.28	
5	GPSK	1	24	24.31	24.33	24.27	
5	GPSK	12	0	23.33	23.29	23.31	24
5	GPSK	12	7	23.48	23.45	23.43	
5	GPSK	12	13	23.48	23.53	23.45	
5	GPSK	25	0	23.51	23.38	23.39	24
5	16QAM	1	0	23.63	23.62	23.59	
5	16QAM	1	12	23.68	23.61	23.68	
5	16QAM	1	24	23.68	23.73	23.65	23
5	16QAM	12	0	22.34	22.29	22.31	
5	16QAM	12	7	22.44	22.35	22.45	
5	16QAM	12	13	22.54	22.55	22.45	23
5	16QAM	25	0	22.42	22.40	22.35	
5	64QAM	1	0	22.48	22.44	22.53	
5	64QAM	1	12	22.60	22.54	22.62	23
5	64QAM	1	24	22.61	22.54	22.54	
5	64QAM	12	0	21.35	21.36	21.37	
5	64QAM	12	7	21.49	21.49	21.46	22
5	64QAM	12	13	21.55	21.47	21.54	
5	64QAM	25	0	21.52	21.42	21.43	



Band 30							
Art 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				2710			
Frequency (MHz)				2310			
10	QPSK	1	0		19.01		19.7
10	QPSK	1	25		18.93		
10	QPSK	1	49		18.92		
10	QPSK	25	0		18.88		19.7
10	QPSK	25	12		18.81		
10	QPSK	25	25		18.73		
10	QPSK	50	0		18.74		19.7
10	16QAM	1	0		18.54		
10	16QAM	1	25		18.51		
10	16QAM	1	49		18.49		19.7
10	16QAM	25	0		18.60		
10	16QAM	25	12		18.68		
10	16QAM	25	25		18.69		19.7
10	16QAM	50	0		18.64		
10	64QAM	1	0		18.94		
10	64QAM	1	25		18.94		19.7
10	64QAM	1	49		18.78		
10	64QAM	25	0		18.67		
10	64QAM	25	12		18.70		19.7
10	64QAM	25	25		18.71		
10	64QAM	50	0		18.68		
Channel				2765	2770	2775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	18.85	18.85	18.87	19.7
5	QPSK	1	12	18.90	18.90	18.93	
5	QPSK	1	24	18.86	18.87	18.87	
5	QPSK	12	0	18.97	18.93	18.93	19.7
5	QPSK	12	7	18.93	18.98	18.61	
5	QPSK	12	13	18.62	18.98	18.99	
5	QPSK	25	0	18.87	18.61	18.54	19.7
5	16QAM	1	0	18.54	18.62	18.48	
5	16QAM	1	12	18.48	18.43	18.46	
5	16QAM	1	24	18.42	18.41	18.45	19.7
5	16QAM	12	0	18.58	18.99	18.93	
5	16QAM	12	7	18.86	18.86	18.82	
5	16QAM	12	13	18.62	18.62	18.65	19.7
5	16QAM	25	0	18.54	18.63	18.62	
5	64QAM	1	0	18.62	18.75	18.77	
5	64QAM	1	12	18.93	18.85	18.91	19.7
5	64QAM	1	24	18.75	18.69	18.75	
5	64QAM	12	0	18.67	18.62	18.59	
5	64QAM	12	7	18.65	18.61	18.61	19.7
5	64QAM	12	13	18.65	18.61	18.64	
5	64QAM	25	0	18.61	18.68	18.60	



Band 71							
Art 0							
Channel	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)			
Channel				133222	133222	133272	
Frequency (MHz)				673	683	688	
20	GPSK	1	0	24.41	24.33	24.29	25
20	GPSK	1	49	24.30	24.32	24.32	
20	GPSK	1	99	24.34	24.33	24.28	
20	GPSK	50	0	23.98	23.49	23.45	24
20	GPSK	50	24	23.53	23.43	23.44	
20	GPSK	50	50	23.49	23.41	23.40	
20	GPSK	100	0	23.50	23.46	23.43	24
20	16QAM	1	0	23.77	23.66	23.61	
20	16QAM	1	49	23.65	23.69	23.67	
20	16QAM	1	99	23.67	23.70	23.59	23
20	16QAM	50	0	22.47	22.40	22.40	
20	16QAM	50	24	22.50	22.43	22.43	
20	16QAM	50	50	22.50	22.52	22.51	23
20	16QAM	100	0	22.49	22.42	22.47	
20	64QAM	1	0	22.58	22.44	22.45	
20	64QAM	1	49	22.54	22.54	22.55	23
20	64QAM	1	99	22.58	22.57	22.50	
20	64QAM	50	0	21.48	21.41	21.41	
20	64QAM	50	24	21.53	21.48	21.47	22
20	64QAM	50	50	21.49	21.54	21.55	
20	64QAM	100	0	21.52	21.41	21.49	
Channel				133197	133207	133297	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	GPSK	1	0	24.35	24.19	24.27	25
15	GPSK	1	37	24.23	24.29	24.26	
15	GPSK	1	74	24.34	24.28	24.20	
15	GPSK	36	0	23.98	23.31	23.33	24
15	GPSK	36	20	23.46	23.40	23.41	
15	GPSK	36	39	23.49	23.43	23.45	
15	GPSK	75	0	23.40	23.36	23.45	24
15	16QAM	1	0	23.73	23.62	23.53	
15	16QAM	1	37	23.58	23.63	23.59	
15	16QAM	1	74	23.66	23.69	23.57	23
15	16QAM	36	0	22.38	22.34	22.33	
15	16QAM	36	20	22.40	22.38	22.40	
15	16QAM	36	39	22.42	22.44	22.43	23
15	16QAM	75	0	22.45	22.40	22.42	
15	64QAM	1	0	22.63	22.38	22.45	
15	64QAM	1	37	22.45	22.54	22.54	23
15	64QAM	1	74	22.52	22.52	22.40	
15	64QAM	36	0	21.39	21.35	21.33	
15	64QAM	36	20	21.52	21.48	21.40	22
15	64QAM	36	39	21.41	21.53	21.50	
15	64QAM	75	0	21.45	21.32	21.49	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	683	
10	GPSK	1	0	24.32	24.26	24.27	25
10	GPSK	1	25	24.27	24.31	24.25	
10	GPSK	1	49	24.26	24.23	24.21	
10	GPSK	25	0	23.99	23.34	23.31	24
10	GPSK	25	12	23.51	23.38	23.36	
10	GPSK	25	25	23.47	23.43	23.45	
10	GPSK	50	0	23.41	23.34	23.42	24
10	16QAM	1	0	23.69	23.67	23.54	
10	16QAM	1	25	23.59	23.65	23.67	
10	16QAM	1	49	23.69	23.63	23.57	23
10	16QAM	25	0	22.42	22.40	22.40	
10	16QAM	25	12	22.43	22.39	22.43	
10	16QAM	25	25	22.43	22.43	22.50	23
10	16QAM	50	0	22.46	22.40	22.45	
10	64QAM	1	0	22.48	22.38	22.40	
10	64QAM	1	25	22.50	22.52	22.50	23
10	64QAM	1	49	22.58	22.53	22.49	
10	64QAM	25	0	21.42	21.41	21.37	
10	64QAM	25	12	21.48	21.48	21.42	22
10	64QAM	25	25	21.39	21.46	21.46	
10	64QAM	50	0	21.50	21.36	21.49	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	685.5	
5	GPSK	1	0	24.36	24.21	24.19	25
5	GPSK	1	12	24.24	24.27	24.29	
5	GPSK	1	24	24.28	24.23	24.21	
5	GPSK	12	0	23.42	23.37	23.35	24
5	GPSK	12	7	23.51	23.36	23.43	
5	GPSK	12	13	23.44	23.42	23.47	
5	GPSK	25	0	23.45	23.35	23.40	24
5	16QAM	1	0	23.72	23.61	23.54	
5	16QAM	1	12	23.58	23.69	23.67	
5	16QAM	1	24	23.68	23.62	23.55	23
5	16QAM	12	0	22.44	22.38	22.38	
5	16QAM	12	7	22.45	22.33	22.33	
5	16QAM	12	13	22.43	22.51	22.48	23
5	16QAM	25	0	22.41	22.39	22.40	
5	64QAM	1	0	22.48	22.38	22.40	
5	64QAM	1	12	22.47	22.52	22.55	23
5	64QAM	1	24	22.54	22.47	22.48	
5	64QAM	12	0	21.48	21.36	21.36	
5	64QAM	12	7	21.45	21.47	21.44	22
5	64QAM	12	13	21.45	21.47	21.53	
5	64QAM	25	0	21.42	21.37	21.49	



Band 5							
Ar1 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				20450	20525	20600	
Frequency (MHz)				826	836.5	844	
10	QPSK	1	0	24.29	24.26	24.33	25
10	QPSK	1	25	24.18	24.17	24.22	
10	QPSK	1	49	24.19	24.23	24.13	
10	QPSK	25	0	23.30	23.32	23.30	24
10	QPSK	25	12	23.38	23.31	23.30	
10	QPSK	25	25	23.34	23.36	23.35	
10	QPSK	50	0	23.39	23.39	23.32	24
10	16QAM	1	0	23.66	23.63	23.61	
10	16QAM	1	25	23.58	23.59	23.57	
10	16QAM	1	49	23.66	23.56	23.53	23
10	16QAM	25	0	22.32	22.33	22.28	
10	16QAM	25	12	22.39	22.29	22.30	
10	16QAM	25	25	22.36	22.35	22.36	23
10	16QAM	50	0	22.39	22.37	22.30	
10	64QAM	1	0	22.50	22.50	22.46	
10	64QAM	1	25	22.54	22.57	22.53	23
10	64QAM	1	49	22.48	22.51	21.71	
10	64QAM	25	0	21.34	21.35	21.33	
10	64QAM	25	12	21.42	21.38	21.36	22
10	64QAM	25	25	21.38	21.40	21.13	
10	64QAM	50	0	21.45	21.44	21.21	
Channel				20452	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.24	24.22	24.19	25
5	QPSK	1	12	24.11	24.16	24.16	
5	QPSK	1	24	24.19	24.14	24.12	
5	QPSK	12	0	23.24	23.27	23.24	24
5	QPSK	12	7	23.35	23.31	23.29	
5	QPSK	12	13	23.30	23.30	23.33	
5	QPSK	25	0	23.31	23.38	23.26	24
5	16QAM	1	0	23.64	23.60	23.60	
5	16QAM	1	12	23.50	23.53	23.56	
5	16QAM	1	24	23.56	23.56	23.53	23
5	16QAM	12	0	22.32	22.28	22.21	
5	16QAM	12	7	22.30	22.28	22.23	
5	16QAM	12	13	22.26	22.30	22.36	23
5	16QAM	25	0	22.34	22.34	22.27	
5	64QAM	1	0	22.44	22.43	22.38	
5	64QAM	1	12	22.45	22.53	22.47	23
5	64QAM	1	24	22.45	22.49	21.61	
5	64QAM	12	0	21.28	21.35	21.29	
5	64QAM	12	7	21.33	21.32	21.28	22
5	64QAM	12	13	21.33	21.31	21.09	
5	64QAM	25	0	21.41	21.38	21.16	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.25	24.25	24.29	25
3	QPSK	1	8	24.12	24.13	24.21	
3	QPSK	1	14	24.13	24.14	24.10	
3	QPSK	8	0	23.26	23.26	23.29	24
3	QPSK	8	4	23.30	23.35	23.26	
3	QPSK	8	7	23.24	23.34	23.26	
3	QPSK	15	0	23.31	23.29	23.22	24
3	16QAM	1	0	23.62	23.54	23.54	
3	16QAM	1	8	23.48	23.54	23.50	
3	16QAM	1	14	23.56	23.54	23.50	23
3	16QAM	8	0	22.29	22.30	22.25	
3	16QAM	8	4	22.38	22.22	22.25	
3	16QAM	8	7	22.30	22.35	22.37	23
3	16QAM	15	0	22.37	22.36	22.29	
3	64QAM	1	0	22.47	22.44	22.37	
3	64QAM	1	8	22.48	22.57	22.53	23
3	64QAM	1	14	22.45	22.45	21.68	
3	64QAM	8	0	21.29	21.29	21.27	
3	64QAM	8	4	21.38	21.32	21.33	22
3	64QAM	8	7	21.31	21.37	21.06	
3	64QAM	15	0	21.43	21.37	21.12	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.27	24.26	24.21	25
1.4	QPSK	1	3	24.13	24.16	24.21	
1.4	QPSK	1	5	24.16	24.18	24.13	
1.4	QPSK	3	0	24.19	24.26	24.12	24
1.4	QPSK	3	1	24.03	24.09	24.13	
1.4	QPSK	3	3	24.15	24.17	24.04	
1.4	QPSK	6	0	23.33	23.30	23.26	24
1.4	16QAM	1	0	23.66	23.56	23.52	
1.4	16QAM	1	3	23.49	23.51	23.47	
1.4	16QAM	1	5	23.49	23.49	23.46	24
1.4	16QAM	3	0	23.61	23.46	23.50	
1.4	16QAM	3	1	23.43	23.47	23.40	
1.4	16QAM	3	3	23.42	23.47	23.44	23
1.4	16QAM	6	0	22.31	22.30	22.29	
1.4	64QAM	1	0	22.43	22.46	22.40	
1.4	64QAM	1	3	22.47	22.55	22.52	23
1.4	64QAM	1	5	22.39	22.49	21.68	
1.4	64QAM	3	0	22.42	22.37	22.34	
1.4	64QAM	3	1	22.44	22.47	22.42	23
1.4	64QAM	3	3	22.36	22.44	21.60	
1.4	64QAM	6	0	21.35	21.38	21.14	



Band 7							
Ari 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				20550	21100	23350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.73	23.77	23.40	24.7
20	QPSK	1	49	23.79	23.81	23.30	
20	QPSK	1	99	24.05	24.00	23.86	
20	QPSK	50	0	23.72	23.74	23.03	24
20	QPSK	50	24	23.67	23.62	22.98	
20	QPSK	50	50	23.69	23.73	23.47	
20	QPSK	100	0	23.81	23.77	22.72	24
20	16QAM	1	0	23.85	23.87	22.65	
20	16QAM	1	49	23.94	23.97	22.47	
20	16QAM	1	99	24.00	23.84	23.57	23
20	16QAM	50	0	22.71	22.74	22.06	
20	16QAM	50	24	22.77	22.81	22.16	
20	16QAM	50	50	22.71	22.88	22.46	23
20	16QAM	100	0	22.75	22.81	21.74	
20	64QAM	1	0	22.77	22.42	21.83	
20	64QAM	1	49	22.86	22.97	21.39	22
20	64QAM	1	99	22.50	22.59	21.53	
20	64QAM	50	0	21.73	21.76	20.41	
20	64QAM	50	24	21.79	21.81	20.42	22
20	64QAM	50	50	21.41	21.87	20.39	
20	64QAM	100	0	21.66	21.69	20.67	
Channel				20552	21100	23375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.65	23.68	23.31	24.7
15	QPSK	1	37	23.75	23.80	23.24	
15	QPSK	1	74	23.82	23.90	24.00	
15	QPSK	36	0	23.70	23.66	22.97	24
15	QPSK	36	23	23.70	23.74	22.88	
15	QPSK	36	39	23.65	23.81	23.45	
15	QPSK	75	0	23.70	23.72	22.87	24
15	16QAM	1	0	23.83	23.77	22.65	
15	16QAM	1	37	23.65	23.92	22.37	
15	16QAM	1	74	23.95	23.84	23.53	23
15	16QAM	36	0	22.67	22.69	22.08	
15	16QAM	36	20	22.70	22.80	22.06	
15	16QAM	36	39	22.69	22.81	22.38	23
15	16QAM	75	0	22.74	22.81	21.69	
15	64QAM	1	0	22.75	22.39	21.80	
15	64QAM	1	37	22.76	22.84	21.32	23
15	64QAM	1	74	22.41	22.55	21.50	
15	64QAM	36	0	21.63	21.75	20.38	
15	64QAM	36	20	21.79	21.75	20.35	22
15	64QAM	36	39	21.41	21.83	20.31	
15	64QAM	75	0	21.62	21.69	20.63	
Channel				20550	21100	23400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.69	23.75	23.32	24.7
10	QPSK	1	25	23.76	23.74	23.21	
10	QPSK	1	49	23.78	23.97	23.96	
10	QPSK	25	0	23.68	23.74	23.01	24
10	QPSK	25	12	23.68	23.74	22.84	
10	QPSK	25	25	23.64	23.80	23.47	
10	QPSK	50	0	23.75	23.77	22.68	24
10	16QAM	1	0	23.77	23.83	22.64	
10	16QAM	1	25	23.94	23.92	22.39	
10	16QAM	1	49	23.90	23.76	23.53	23
10	16QAM	25	0	22.71	22.67	22.06	
10	16QAM	25	12	22.70	22.72	22.12	
10	16QAM	25	25	22.70	22.80	22.45	23
10	16QAM	50	0	22.70	22.75	21.67	
10	64QAM	1	0	22.70	22.40	21.73	
10	64QAM	1	25	22.78	22.86	21.34	23
10	64QAM	1	49	22.48	22.59	21.51	
10	64QAM	25	0	21.70	21.74	20.38	
10	64QAM	25	12	21.77	21.78	20.32	22
10	64QAM	25	25	21.37	21.86	20.32	
10	64QAM	50	0	21.59	21.60	20.67	
Channel				20775	21100	23425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.73	23.73	23.38	24.7
5	QPSK	1	12	23.79	23.77	23.30	
5	QPSK	1	24	23.85	23.99	23.99	
5	QPSK	12	0	23.64	23.64	22.93	24
5	QPSK	12	7	23.67	23.72	22.85	
5	QPSK	12	13	23.62	23.83	23.43	
5	QPSK	25	0	23.70	23.77	22.62	24
5	16QAM	1	0	23.75	23.84	22.57	
5	16QAM	1	12	23.93	23.88	22.47	
5	16QAM	1	24	24.00	23.62	23.52	23
5	16QAM	12	0	22.70	22.68	22.06	
5	16QAM	12	7	22.73	22.81	22.10	
5	16QAM	12	13	22.61	22.79	22.42	23
5	16QAM	25	0	22.69	22.74	21.74	
5	64QAM	1	0	22.72	22.34	21.79	
5	64QAM	1	12	22.83	22.79	21.36	23
5	64QAM	1	24	22.43	22.51	21.51	
5	64QAM	12	0	21.63	21.72	20.34	
5	64QAM	12	7	21.73	21.78	20.33	22
5	64QAM	12	13	21.32	21.77	20.32	
5	64QAM	25	0	21.58	21.67	20.59	



Band 12									
Art 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up	limit	(dBm)
				Low	Middle	High			
Channel				2399	2395	2330			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	24.31	24.25	24.23	25		
10	QPSK	1	25	24.24	24.29	24.26			
10	QPSK	1	49	24.35	24.34	24.27			
10	QPSK	25	0	23.39	23.43	23.36	24		
10	QPSK	25	12	23.40	23.38	23.45			
10	QPSK	25	25	23.44	23.38	23.40			
10	QPSK	50	0	23.48	23.40	23.41	24		
10	16QAM	1	0	23.66	23.62	23.62			
10	16QAM	1	25	23.62	23.66	23.65			
10	16QAM	1	49	23.72	23.66	23.66	23		
10	16QAM	25	0	22.38	22.40	22.40			
10	16QAM	25	12	22.48	22.41	22.41			
10	16QAM	25	25	22.44	22.46	22.40	23		
10	16QAM	50	0	22.46	22.41	22.40			
10	64QAM	1	0	22.53	22.46	22.46			
10	64QAM	1	25	22.58	22.50	22.56	23		
10	64QAM	1	49	22.64	22.56	22.54			
10	64QAM	25	0	21.44	21.44	21.43			
10	64QAM	25	12	21.53	21.44	21.45	22		
10	64QAM	25	25	21.48	21.48	21.47			
10	64QAM	50	0	21.52	21.45	21.42			
Channel				2305	2305	2315	Tune-up limit (dBm)		
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	24.22	24.18	24.20	25		
5	QPSK	1	12	24.19	24.29	24.22			
5	QPSK	1	24	24.32	24.25	24.27			
5	QPSK	12	0	23.30	23.41	23.29	24		
5	QPSK	12	7	23.40	23.38	23.40			
5	QPSK	12	13	23.38	23.42	23.42			
5	QPSK	25	0	23.46	23.33	23.39	24		
5	16QAM	1	0	23.59	23.56	23.52			
5	16QAM	1	12	23.57	23.57	23.60			
5	16QAM	1	24	23.66	23.62	23.62	23		
5	16QAM	12	0	22.37	22.34	22.36			
5	16QAM	12	7	22.43	22.32	22.31			
5	16QAM	12	13	22.43	22.42	22.35	23		
5	16QAM	25	0	22.36	22.33	22.35			
5	64QAM	1	0	22.43	22.37	22.38			
5	64QAM	1	12	22.57	22.54	22.47	23		
5	64QAM	1	24	22.61	22.56	22.48			
5	64QAM	12	0	21.37	21.38	21.41			
5	64QAM	12	7	21.45	21.34	21.45	22		
5	64QAM	12	13	21.38	21.44	21.43			
5	64QAM	25	0	21.52	21.37	21.38			
Channel				2305	2305	2315	Tune-up limit (dBm)		
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	24.24	24.19	24.21	25		
3	QPSK	1	8	24.22	24.22	24.23			
3	QPSK	1	14	24.26	24.24	24.19			
3	QPSK	8	0	23.33	23.39	23.37	24		
3	QPSK	8	4	23.41	23.38	23.40			
3	QPSK	8	7	23.35	23.41	23.42			
3	QPSK	15	0	23.43	23.31	23.31	24		
3	16QAM	1	0	23.57	23.61	23.57			
3	16QAM	1	8	23.61	23.60	23.57			
3	16QAM	1	14	23.66	23.67	23.63	23		
3	16QAM	8	0	22.30	22.30	22.36			
3	16QAM	8	4	22.40	22.38	22.37			
3	16QAM	8	7	22.42	22.40	22.39	23		
3	16QAM	15	0	22.40	22.33	22.30			
3	64QAM	1	0	22.46	22.39	22.39			
3	64QAM	1	8	22.49	22.56	22.51	23		
3	64QAM	1	14	22.56	22.53	22.44			
3	64QAM	8	0	21.41	21.40	21.39			
3	64QAM	8	4	21.48	21.43	21.42	22		
3	64QAM	8	7	21.44	21.48	21.45			
3	64QAM	15	0	21.49	21.43	21.35			
Channel				2301	2305	2313	Tune-up limit (dBm)		
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	24.25	24.25	24.21	25		
1.4	QPSK	1	3	24.15	24.25	24.19			
1.4	QPSK	1	5	24.26	24.24	24.21			
1.4	QPSK	3	0	24.24	24.18	24.14	24		
1.4	QPSK	3	1	24.06	24.16	24.13			
1.4	QPSK	3	3	24.22	24.22	24.21			
1.4	QPSK	6	0	23.36	23.39	23.35	24		
1.4	16QAM	1	0	23.57	23.58	23.52			
1.4	16QAM	1	3	23.55	23.62	23.56			
1.4	16QAM	1	5	23.66	23.65	23.65	24		
1.4	16QAM	3	0	23.47	23.53	23.50			
1.4	16QAM	3	1	23.55	23.56	23.50			
1.4	16QAM	3	3	23.62	23.62	23.58	23		
1.4	16QAM	6	0	22.45	22.34	22.35			
1.4	64QAM	1	0	22.51	22.38	22.38			
1.4	64QAM	1	3	22.49	22.51	22.52	23		
1.4	64QAM	1	5	22.61	22.48	22.44			
1.4	64QAM	3	0	22.47	22.31	22.35			
1.4	64QAM	3	1	22.42	22.46	22.46	23		
1.4	64QAM	3	3	22.59	22.41	22.37			
1.4	64QAM	6	0	21.45	21.41	21.36			



Band 13							
Art 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				2329	762		
Frequency (MHz)							
10	QPSK	1	0		24.36		25
10	QPSK	1	25		24.38		
10	QPSK	1	49		24.47		
10	QPSK	25	0		23.43		24
10	QPSK	25	12		23.53		
10	QPSK	25	25		23.51		
10	QPSK	50	0		23.53		24
10	16QAM	1	0		23.71		
10	16QAM	1	25		23.74		
10	16QAM	1	49		23.74		23
10	16QAM	25	0		22.48		
10	16QAM	25	12		22.54		
10	16QAM	25	25		22.55		23
10	16QAM	50	0		22.50		
10	64QAM	1	0		22.65		
10	64QAM	1	25		22.71		23
10	64QAM	1	49		22.63		
10	64QAM	25	0		21.51		
10	64QAM	25	12		21.56		22
10	64QAM	25	25		21.56		
10	64QAM	50	0		21.53		
Channel				23295	23230	23295	Tune-up limit (dBm)
Frequency (MHz)				779.5	792	794.5	
5	QPSK	1	0	24.29	24.31	24.35	25
5	QPSK	1	12	24.30	24.32	24.33	
5	QPSK	1	24	24.43	24.42	24.45	
5	QPSK	12	0	23.42	23.43	23.40	24
5	QPSK	12	7	23.47	23.41	23.50	
5	QPSK	12	13	23.49	23.53	23.46	
5	QPSK	25	0	23.47	23.45	23.52	24
5	16QAM	1	0	23.66	23.66	23.62	
5	16QAM	1	12	23.65	23.70	23.68	
5	16QAM	1	24	23.64	23.74	23.67	23
5	16QAM	12	0	22.39	22.43	22.46	
5	16QAM	12	7	22.49	22.53	22.51	
5	16QAM	12	13	22.48	22.50	22.53	23
5	16QAM	25	0	22.47	22.40	22.49	
5	64QAM	1	0	22.60	22.56	22.56	
5	64QAM	1	12	22.67	22.65	22.65	23
5	64QAM	1	24	22.62	22.59	22.56	
5	64QAM	12	0	21.41	21.45	21.49	
5	64QAM	12	7	21.49	21.53	21.47	22
5	64QAM	12	13	21.56	21.53	21.55	
5	64QAM	25	0	21.48	21.46	21.47	



Band 14							
Art 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				2330			
Frequency (MHz)				793			
10	QPSK	1	0		24.41		25
10	QPSK	1	25		24.31		
10	QPSK	1	49		24.29		
10	QPSK	25	0		23.42		24
10	QPSK	25	12		23.41		
10	QPSK	25	25		23.47		
10	QPSK	50	0		23.40		24
10	16QAM	1	0		23.76		
10	16QAM	1	25		23.78		
10	16QAM	1	49		23.69		23
10	16QAM	25	0		22.40		
10	16QAM	25	12		22.44		
10	16QAM	25	25		22.45		23
10	16QAM	50	0		22.40		
10	64QAM	1	0		22.65		
10	64QAM	1	25		22.68		23
10	64QAM	1	49		22.59		
10	64QAM	25	0		21.45		
10	64QAM	25	12		21.48		22
10	64QAM	25	25		21.50		
10	64QAM	50	0		21.42		
Channel				2335			
Frequency (MHz)				790.5			
5	QPSK	1	0	24.39	24.32	24.35	25
5	QPSK	1	12	24.22	24.29	24.26	
5	QPSK	1	24	24.24	24.25	24.24	
5	QPSK	12	0	23.34	23.34	23.40	24
5	QPSK	12	7	23.34	23.33	23.38	
5	QPSK	12	13	23.44	23.43	23.46	
5	QPSK	25	0	23.37	23.31	23.32	24
5	16QAM	1	0	23.74	23.67	23.76	
5	16QAM	1	12	23.69	23.68	23.72	
5	16QAM	1	24	23.69	23.64	23.60	23
5	16QAM	12	0	22.30	22.32	22.35	
5	16QAM	12	7	22.38	22.34	22.44	
5	16QAM	12	13	22.36	22.36	22.36	23
5	16QAM	25	0	22.37	22.38	22.35	
5	64QAM	1	0	22.58	22.60	22.65	
5	64QAM	1	12	22.59	22.59	22.63	23
5	64QAM	1	24	22.53	22.51	22.48	
5	64QAM	12	0	21.38	21.43	21.37	
5	64QAM	12	7	21.47	21.39	21.47	22
5	64QAM	12	13	21.43	21.43	21.50	
5	64QAM	25	0	21.42	21.41	21.33	



Band 17							
Art 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				23780	23790	23800	
Frequency (MHz)				706	710	711	
10	QPSK	1	0	24.24	24.16	24.23	25
10	QPSK	1	25	24.23	24.25	24.30	
10	QPSK	1	49	24.28	24.31	24.29	
10	QPSK	25	0	23.33	23.33	23.36	24
10	QPSK	25	12	23.45	23.39	23.39	
10	QPSK	25	25	23.48	23.50	23.48	
10	QPSK	50	0	23.47	23.38	23.37	24
10	16QAM	1	0	23.59	23.61	23.61	
10	16QAM	1	25	23.64	23.66	23.66	
10	16QAM	1	49	23.72	23.70	23.69	23
10	16QAM	25	0	22.34	22.34	22.36	
10	16QAM	25	12	22.45	22.41	22.40	
10	16QAM	25	25	22.44	22.46	22.46	23
10	16QAM	50	0	22.46	22.39	22.38	
10	64QAM	1	0	22.50	22.46	22.47	
10	64QAM	1	25	22.60	22.59	22.59	23
10	64QAM	1	49	22.55	22.61	22.59	
10	64QAM	25	0	21.36	21.33	21.36	
10	64QAM	25	12	21.46	21.46	21.43	22
10	64QAM	25	25	21.50	21.51	21.50	
10	64QAM	50	0	21.51	21.43	21.41	
Channel				23755	23760	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.15	24.10	24.15	25
5	QPSK	1	12	24.17	24.18	24.29	
5	QPSK	1	24	24.18	24.29	24.19	
5	QPSK	12	0	23.33	23.28	23.28	24
5	QPSK	12	7	23.38	23.32	23.31	
5	QPSK	12	13	23.44	23.43	23.47	
5	QPSK	25	0	23.40	23.29	23.35	24
5	16QAM	1	0	23.54	23.61	23.59	
5	16QAM	1	12	23.54	23.64	23.65	
5	16QAM	1	24	23.65	23.66	23.63	23
5	16QAM	12	0	22.29	22.31	22.36	
5	16QAM	12	7	22.43	22.33	22.31	
5	16QAM	12	13	22.37	22.45	22.39	23
5	16QAM	25	0	22.36	22.33	22.33	
5	64QAM	1	0	22.44	22.41	22.46	
5	64QAM	1	12	22.51	22.51	22.56	23
5	64QAM	1	24	22.49	22.55	22.57	
5	64QAM	12	0	21.27	21.24	21.36	
5	64QAM	12	7	21.39	21.40	21.36	22
5	64QAM	12	13	21.42	21.51	21.44	
5	64QAM	25	0	21.43	21.37	21.32	



Band 26										
Art. 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)			
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq				
Channel				26785	26965	26965				
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	24.29	24.21	24.20	25			
15	QPSK	1	37	24.19	24.18	24.16				
15	QPSK	1	74	24.21	24.17	24.09				
15	QPSK	36	0	23.36	23.33	23.35	24			
15	QPSK	36	20	23.40	23.34	23.38				
15	QPSK	36	39	23.40	23.30	23.35				
15	QPSK	75	0	23.41	23.30	23.31	24			
15	16QAM	1	0	23.82	23.50	23.50				
15	16QAM	1	37	23.54	23.51	23.52				
15	16QAM	1	74	23.83	23.50	23.37	23			
15	16QAM	36	0	22.37	22.36	22.36				
15	16QAM	36	20	22.42	22.32	22.37				
15	16QAM	36	39	22.40	22.36	22.32	23			
15	16QAM	75	0	22.42	22.32	22.33				
15	64QAM	1	0	22.45	22.34	22.36				
15	64QAM	1	37	22.47	22.41	22.45	23			
15	64QAM	1	74	22.41	22.41	21.72				
15	64QAM	36	0	21.41	21.40	21.41				
15	64QAM	36	20	21.45	21.32	21.41	22			
15	64QAM	36	39	21.42	21.43	21.41				
15	64QAM	75	0	21.43	21.34	21.34				
Channel				26790	26965	26990	Tune-up limit (dBm)			
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	24.24	24.08	24.17	25			
10	QPSK	1	25	24.15	24.17	24.09				
10	QPSK	1	49	24.12	24.12	24.02				
10	QPSK	25	0	23.31	23.30	23.25	24			
10	QPSK	25	12	23.35	23.24	23.37				
10	QPSK	25	25	23.40	23.31	23.32				
10	QPSK	50	0	23.38	23.21	23.23	24			
10	16QAM	1	0	23.58	23.41	23.44				
10	16QAM	1	25	23.54	23.51	23.50				
10	16QAM	1	49	23.52	23.50	23.31	23			
10	16QAM	25	0	22.31	22.32	22.28				
10	16QAM	25	12	22.35	22.31	22.32				
10	16QAM	25	25	22.40	22.34	22.28	23			
10	16QAM	50	0	22.41	22.25	22.30				
10	64QAM	1	0	22.42	22.26	22.36				
10	64QAM	1	25	22.42	22.32	22.43	23			
10	64QAM	1	49	22.35	22.34	21.66				
10	64QAM	25	0	21.35	21.36	21.39				
10	64QAM	25	12	21.40	21.28	21.41	22			
10	64QAM	25	25	21.38	21.36	21.32				
10	64QAM	50	0	21.37	21.27	21.31				
Channel				26715	26965	27015	Tune-up limit (dBm)			
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	24.25	24.13	24.14	25			
5	QPSK	1	12	24.17	24.15	24.15				
5	QPSK	1	24	24.19	24.19	24.07				
5	QPSK	12	0	23.35	23.29	23.27	24			
5	QPSK	12	7	23.36	23.24	23.35				
5	QPSK	12	13	23.36	23.27	23.26				
5	QPSK	25	0	23.32	23.20	23.23	24			
5	16QAM	1	0	23.59	23.48	23.41				
5	16QAM	1	12	23.50	23.48	23.50				
5	16QAM	1	24	23.50	23.49	23.31	23			
5	16QAM	12	0	22.36	22.27	22.32				
5	16QAM	12	7	22.32	22.32	22.32				
5	16QAM	12	13	22.33	22.32	22.30	23			
5	16QAM	25	0	22.41	22.25	22.24				
5	64QAM	1	0	22.36	22.30	22.30				
5	64QAM	1	12	22.46	22.39	22.43	23			
5	64QAM	1	24	22.39	22.38	21.62				
5	64QAM	12	0	21.38	21.32	21.40				
5	64QAM	12	7	21.38	21.23	21.32	22			
5	64QAM	12	13	21.40	21.42	21.41				
5	64QAM	25	0	21.36	21.27	21.35				
Channel				26795	26965	27025	Tune-up limit (dBm)			
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	24.25	24.11	24.12	25			
3	QPSK	1	8	24.10	24.13	24.07				
3	QPSK	1	14	24.18	24.21	24.02				
3	QPSK	8	0	23.38	23.26	23.35	24			
3	QPSK	8	4	23.32	23.21	23.31				
3	QPSK	8	7	23.32	23.25	23.25				
3	QPSK	15	0	23.32	23.30	23.25	24			
3	16QAM	1	0	23.52	23.47	23.43				
3	16QAM	1	8	23.45	23.44	23.46				
3	16QAM	1	14	23.46	23.41	23.31	23			
3	16QAM	8	0	22.33	22.35	22.28				
3	16QAM	8	4	22.32	22.32	22.33				
3	16QAM	8	7	22.38	22.31	22.25	23			
3	16QAM	15	0	22.39	22.28	22.33				
3	64QAM	1	0	22.37	22.27	22.37				
3	64QAM	1	8	22.37	22.32	22.38	23			
3	64QAM	1	14	22.41	22.39	21.67				
3	64QAM	8	0	21.40	21.39	21.38				
3	64QAM	8	4	21.41	21.29	21.39	22			
3	64QAM	8	7	21.34	21.38	21.38				
3	64QAM	15	0	21.33	21.29	21.25				
Channel				26897	26965	27033	Tune-up limit (dBm)			
Frequency (MHz)				814.7	831.5	848.3				
1.4	QPSK	1	0	24.25	24.12	24.11	25			
1.4	QPSK	1	3	24.18	24.16	24.12				
1.4	QPSK	1	5	24.16	24.21	24.01				
1.4	QPSK	3	0	24.16	24.08	24.06	24			
1.4	QPSK	3	1	24.14	24.10	24.02				
1.4	QPSK	3	3	24.11	24.20	24.00				
1.4	QPSK	6	0	23.38	23.20	23.30	24			
1.4	16QAM	1	0	23.59	23.42	23.40				
1.4	16QAM	1	3	23.44	23.46	23.51				
1.4	16QAM	1	5	23.45	23.49	23.37	24			
1.4	16QAM	3	0	23.49	23.35	23.38				
1.4	16QAM	3	1	23.41	23.39	23.44				
1.4	16QAM	3	3	23.42	23.47	23.31	23			
1.4	16QAM	6	0	22.40	22.31	22.27				
1.4	64QAM	1	0	22.39	22.31	22.34				
1.4	64QAM	1	3	22.44	22.37	22.42	23			
1.4	64QAM	1	5	22.41	22.31	21.62				
1.4	64QAM	3	0	22.37	22.25	22.28				
1.4	64QAM	3	1	22.39	22.34	22.35	23			
1.4	64QAM	3	3	22.40	22.29	21.62				
1.4	64QAM	6	0	21.39	21.32	21.24		22		



Band 30							
Ari 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				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		24.18		24.7
10	QPSK	1	25		24.18		
10	QPSK	1	49		24.19		
10	QPSK	25	0		23.20		24
10	QPSK	25	12		23.24		
10	QPSK	25	25		23.29		
10	QPSK	50	0		23.28		24
10	16QAM	1	0		23.55		
10	16QAM	1	25		23.58		
10	16QAM	1	49		23.55		23
10	16QAM	25	0		22.23		
10	16QAM	25	12		22.27		
10	16QAM	25	25		22.27		23
10	16QAM	50	0		22.24		
10	64QAM	1	0		22.42		
10	64QAM	1	25		22.50		23
10	64QAM	1	49		22.42		
10	64QAM	25	0		21.24		
10	64QAM	25	12		21.31		22
10	64QAM	25	25		21.30		
10	64QAM	50	0		21.30		
Channel				27885			
Frequency (MHz)				2307.5			
5	QPSK	1	0	24.18	24.13	24.18	24.7
5	QPSK	1	12	24.10	24.16	24.09	
5	QPSK	1	24	24.09	24.10	24.15	
5	QPSK	12	0	23.12	23.20	23.14	24
5	QPSK	12	7	23.15	23.19	23.18	
5	QPSK	12	13	23.28	23.24	23.25	
5	QPSK	25	0	23.22	23.25	23.26	24
5	16QAM	1	0	23.52	23.52	23.48	
5	16QAM	1	12	23.51	23.48	23.48	
5	16QAM	1	24	23.47	23.49	23.54	23
5	16QAM	12	0	22.23	22.23	22.20	
5	16QAM	12	7	22.20	22.20	22.17	
5	16QAM	12	13	22.23	22.26	22.19	23
5	16QAM	25	0	22.22	22.24	22.19	
5	64QAM	1	0	22.40	22.41	22.34	
5	64QAM	1	12	22.40	22.46	22.48	23
5	64QAM	1	24	22.40	22.34	22.33	
5	64QAM	12	0	21.23	21.22	21.15	
5	64QAM	12	7	21.24	21.27	21.21	22
5	64QAM	12	13	21.22	21.20	21.23	
5	64QAM	25	0	21.30	21.25	21.28	



Band 71							
Art 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				13322	13322	13322	
Frequency (MHz)				675	683	688	
20	QPSK	1	0	24.40	24.34	24.28	25
20	QPSK	1	49	24.30	24.32	24.31	
20	QPSK	1	99	24.30	24.30	24.26	
20	QPSK	50	0	23.45	23.52	23.39	24
20	QPSK	50	24	23.42	23.42	23.46	
20	QPSK	50	50	23.50	23.51	23.50	
20	QPSK	100	0	23.48	23.44	23.48	24
20	16QAM	1	0	23.72	23.62	23.64	
20	16QAM	1	49	23.65	23.69	23.65	
20	16QAM	1	99	23.65	23.69	23.62	23
20	16QAM	50	0	22.47	22.42	22.46	
20	16QAM	50	24	22.52	22.45	22.42	
20	16QAM	50	50	22.51	22.53	22.49	23
20	16QAM	100	0	22.46	22.42	22.47	
20	64QAM	1	0	22.60	22.50	22.48	
20	64QAM	1	49	22.50	22.55	22.52	23
20	64QAM	1	99	22.57	22.59	22.50	
20	64QAM	50	0	21.49	21.40	21.41	
20	64QAM	50	24	21.52	21.47	21.46	22
20	64QAM	50	50	21.49	21.53	21.52	
20	64QAM	100	0	21.53	21.41	21.49	
Channel				133197	133207	133197	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.33	24.29	24.18	25
15	QPSK	1	37	24.27	24.24	24.25	
15	QPSK	1	74	24.24	24.34	24.17	
15	QPSK	36	0	23.39	23.37	23.31	24
15	QPSK	36	20	23.62	23.38	23.42	
15	QPSK	36	39	23.49	23.51	23.47	
15	QPSK	75	0	23.48	23.36	23.41	24
15	16QAM	1	0	23.89	23.58	23.59	
15	16QAM	1	37	23.59	23.66	23.58	
15	16QAM	1	74	23.65	23.66	23.53	23
15	16QAM	36	0	22.43	22.37	22.36	
15	16QAM	36	20	22.45	22.36	22.35	
15	16QAM	36	39	22.50	22.43	22.47	23
15	16QAM	75	0	22.38	22.42	22.39	
15	64QAM	1	0	22.50	22.43	22.36	
15	64QAM	1	37	22.46	22.45	22.49	23
15	64QAM	1	74	22.53	22.50	22.43	
15	64QAM	36	0	21.47	21.37	21.37	
15	64QAM	36	20	21.47	21.40	21.38	22
15	64QAM	36	39	21.41	21.48	21.43	
15	64QAM	75	0	21.46	21.32	21.46	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				666	676	693	
10	QPSK	1	0	24.35	24.30	24.18	25
10	QPSK	1	25	24.27	24.27	24.23	
10	QPSK	1	49	24.20	24.25	24.24	
10	QPSK	25	0	23.45	23.42	23.32	24
10	QPSK	25	12	23.62	23.32	23.37	
10	QPSK	25	25	23.42	23.47	23.44	
10	QPSK	50	0	23.46	23.36	23.43	24
10	16QAM	1	0	23.64	23.60	23.60	
10	16QAM	1	25	23.63	23.63	23.57	
10	16QAM	1	49	23.67	23.62	23.52	23
10	16QAM	25	0	22.43	22.36	22.37	
10	16QAM	25	12	22.49	22.36	22.32	
10	16QAM	25	25	22.46	22.52	22.43	23
10	16QAM	50	0	22.36	22.41	22.43	
10	64QAM	1	0	22.55	22.43	22.46	
10	64QAM	1	25	22.43	22.47	22.52	23
10	64QAM	1	49	22.50	22.54	22.42	
10	64QAM	25	0	21.43	21.37	21.35	
10	64QAM	25	12	21.46	21.37	21.37	22
10	64QAM	25	25	21.44	21.52	21.50	
10	64QAM	50	0	21.47	21.32	21.46	
Channel				133147	133247	133417	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	24.32	24.25	24.23	25
5	QPSK	1	12	24.23	24.28	24.28	
5	QPSK	1	24	24.22	24.24	24.18	
5	QPSK	12	0	23.43	23.37	23.36	24
5	QPSK	12	7	23.48	23.36	23.36	
5	QPSK	12	13	23.50	23.45	23.42	
5	QPSK	25	0	23.47	23.39	23.43	24
5	16QAM	1	0	23.65	23.62	23.61	
5	16QAM	1	12	23.59	23.66	23.64	
5	16QAM	1	24	23.59	23.67	23.53	23
5	16QAM	12	0	22.38	22.42	22.38	
5	16QAM	12	7	22.42	22.39	22.34	
5	16QAM	12	13	22.46	22.48	22.45	23
5	16QAM	25	0	22.42	22.34	22.37	
5	64QAM	1	0	22.51	22.45	22.46	
5	64QAM	1	12	22.50	22.52	22.43	23
5	64QAM	1	24	22.47	22.57	22.46	
5	64QAM	12	0	21.48	21.36	21.40	
5	64QAM	12	7	21.44	21.41	21.45	22
5	64QAM	12	13	21.46	21.51	21.42	
5	64QAM	25	0	21.43	21.36	21.41	



Band 5							
Art 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				2040	2052	2060	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.40	24.37	24.38	25
10	QPSK	1	25	24.27	24.29	24.30	
10	QPSK	1	49	24.32	24.33	24.28	
10	QPSK	25	0	23.43	23.41	23.40	24
10	QPSK	25	12	23.49	23.41	23.42	
10	QPSK	25	25	23.46	23.44	23.45	
10	QPSK	50	0	23.50	23.50	23.39	24
10	16QAM	1	0	23.77	23.74	23.72	
10	16QAM	1	25	23.69	23.70	23.66	
10	16QAM	1	49	23.69	23.66	23.61	23
10	16QAM	25	0	22.44	22.42	22.40	
10	16QAM	25	12	22.52	22.41	22.39	
10	16QAM	25	25	22.46	22.43	22.40	23
10	16QAM	50	0	22.53	22.48	22.41	
10	64QAM	1	0	22.48	22.56	22.57	
10	64QAM	1	25	22.64	22.63	22.46	23
10	64QAM	1	49	22.66	22.60	22.11	
10	64QAM	25	0	21.44	21.43	21.45	
10	64QAM	25	12	21.55	21.44	21.45	22
10	64QAM	25	25	21.51	21.48	21.08	
10	64QAM	50	0	21.54	21.52	21.32	
Channel				2042	2052	2052	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.34	24.37	24.34	25
5	QPSK	1	12	24.22	24.21	24.22	
5	QPSK	1	24	24.24	24.31	24.26	
5	QPSK	12	0	23.38	23.35	23.35	24
5	QPSK	12	7	23.46	23.31	23.33	
5	QPSK	12	13	23.37	23.39	23.41	
5	QPSK	25	0	23.42	23.43	23.31	24
5	16QAM	1	0	23.73	23.68	23.71	
5	16QAM	1	12	23.66	23.70	23.59	
5	16QAM	1	24	23.64	23.66	23.59	23
5	16QAM	12	0	22.37	22.37	22.33	
5	16QAM	12	7	22.46	22.41	22.33	
5	16QAM	12	13	22.38	22.35	22.33	23
5	16QAM	25	0	22.48	22.38	22.39	
5	64QAM	1	0	22.48	22.56	22.50	
5	64QAM	1	12	22.61	22.68	22.41	23
5	64QAM	1	24	22.64	22.62	22.07	
5	64QAM	12	0	21.36	21.34	21.44	
5	64QAM	12	7	21.55	21.40	21.43	22
5	64QAM	12	13	21.45	21.48	21.05	
5	64QAM	25	0	21.44	21.52	21.32	
Channel				2045	2052	2053	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.32	24.27	24.32	25
3	QPSK	1	8	24.19	24.23	24.30	
3	QPSK	1	14	24.26	24.27	24.25	
3	QPSK	8	0	23.42	23.41	23.31	24
3	QPSK	8	4	23.46	23.37	23.35	
3	QPSK	8	7	23.37	23.39	23.35	
3	QPSK	15	0	23.42	23.49	23.36	24
3	16QAM	1	0	23.72	23.66	23.69	
3	16QAM	1	8	23.66	23.65	23.65	
3	16QAM	1	14	23.65	23.69	23.56	23
3	16QAM	8	0	22.44	22.32	22.36	
3	16QAM	8	4	22.51	22.33	22.34	
3	16QAM	8	7	22.46	22.43	22.34	23
3	16QAM	15	0	22.53	22.44	22.37	
3	64QAM	1	0	22.61	22.54	22.47	
3	64QAM	1	8	22.57	22.63	22.44	23
3	64QAM	1	14	22.48	22.50	22.09	
3	64QAM	8	0	21.39	21.40	21.40	
3	64QAM	8	4	21.46	21.43	21.35	22
3	64QAM	8	7	21.51	21.45	21.05	
3	64QAM	15	0	21.45	21.43	21.27	
Channel				2047	2052	2053	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.30	24.33	24.36	25
1.4	QPSK	1	3	24.20	24.24	24.27	
1.4	QPSK	1	5	24.32	24.29	24.24	
1.4	QPSK	3	0	24.22	24.32	24.32	24
1.4	QPSK	3	1	24.10	24.04	24.27	
1.4	QPSK	3	3	24.29	24.19	24.18	
1.4	QPSK	6	0	23.44	23.41	23.30	24
1.4	16QAM	1	0	23.76	23.71	23.70	
1.4	16QAM	1	3	23.62	23.63	23.56	
1.4	16QAM	1	5	23.63	23.61	23.60	23
1.4	16QAM	3	0	23.76	23.64	23.63	
1.4	16QAM	3	1	23.63	23.65	23.60	
1.4	16QAM	3	3	23.60	23.65	23.54	23
1.4	16QAM	6	0	22.62	22.40	22.40	
1.4	64QAM	1	0	22.62	22.62	22.62	
1.4	64QAM	1	3	22.64	22.67	22.45	23
1.4	64QAM	1	5	22.63	22.50	22.01	
1.4	64QAM	3	0	22.44	22.48	22.50	
1.4	64QAM	3	1	22.61	22.62	22.42	23
1.4	64QAM	3	3	22.52	22.49	21.96	
1.4	64QAM	6	0	21.49	21.60	21.32	



Band 7							
Art 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				2050	2100	2350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	2140	2142	2143	22.3
20	QPSK	1	49	2128	2139	2130	
20	QPSK	1	99	2131	2121	2124	
20	QPSK	50	0	2135	2138	2139	22.3
20	QPSK	50	24	2127	2135	2130	
20	QPSK	50	50	2132	2132	2131	
20	QPSK	100	0	2131	2133	2137	22.3
20	16QAM	1	0	2139	2121	2124	
20	16QAM	1	49	2136	2126	2125	
20	16QAM	1	99	2134	2139	2139	22.3
20	16QAM	50	0	2133	2128	2124	
20	16QAM	50	24	2121	2124	2128	
20	16QAM	50	50	2138	2138	2136	22.3
20	16QAM	100	0	2132	2125	2121	
20	64QAM	1	0	2128	2135	2140	
20	64QAM	1	49	2127	2128	2132	22.3
20	64QAM	1	99	2128	2124	2122	
20	64QAM	50	0	2117	2102	2117	
20	64QAM	50	24	2111	2113	2117	22
20	64QAM	50	50	2116	2119	2115	
20	64QAM	100	0	2111	2120	2109	
Channel				2065	2100	2135	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	2140	2136	2135	22.3
15	QPSK	1	37	2123	2136	2129	
15	QPSK	1	74	2131	2114	2123	
15	QPSK	36	0	2127	2128	2134	22.3
15	QPSK	36	20	2125	2132	2122	
15	QPSK	36	39	2129	2129	2127	
15	QPSK	75	0	2125	2130	2135	22.3
15	16QAM	1	0	2131	2120	2121	
15	16QAM	1	37	2136	2116	2121	
15	16QAM	1	74	2128	2134	2135	22.3
15	16QAM	36	0	2133	2119	2114	
15	16QAM	36	20	2112	2114	2125	
15	16QAM	36	39	2130	2137	2128	22.3
15	16QAM	75	0	2129	2116	2112	
15	64QAM	1	0	2127	2131	2133	
15	64QAM	1	37	2122	2124	2132	22.3
15	64QAM	1	74	2128	2114	2115	
15	64QAM	36	0	2108	2099	2113	
15	64QAM	36	20	2107	2103	2116	22
15	64QAM	36	39	2106	2116	2112	
15	64QAM	75	0	2111	2113	2099	
Channel				2080	2100	2100	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	2138	2136	2142	22.3
10	QPSK	1	25	2123	2135	2120	
10	QPSK	1	49	2129	2113	2124	
10	QPSK	25	0	2127	2128	2133	22.3
10	QPSK	25	12	2117	2134	2120	
10	QPSK	25	25	2128	2122	2121	
10	QPSK	50	0	2122	2126	2129	22.3
10	16QAM	1	0	2138	2121	2119	
10	16QAM	1	25	2133	2119	2123	
10	16QAM	1	49	2124	2137	2138	22.3
10	16QAM	25	0	2124	2122	2122	
10	16QAM	25	12	2118	2114	2124	
10	16QAM	25	25	2135	2131	2134	22.3
10	16QAM	50	0	2126	2117	2115	
10	64QAM	1	0	2119	2130	2134	
10	64QAM	1	25	2122	2121	2127	22.3
10	64QAM	1	49	2128	2121	2121	
10	64QAM	25	0	2111	2092	2107	
10	64QAM	25	12	2104	2109	2113	22
10	64QAM	25	25	2110	2114	2107	
10	64QAM	50	0	2109	2120	2097	
Channel				2075	2100	2105	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	2139	2136	2135	22.3
5	QPSK	1	12	2116	2135	2123	
5	QPSK	1	24	2124	2114	2121	
5	QPSK	12	0	2135	2134	2131	22.3
5	QPSK	12	7	2127	2106	2105	
5	QPSK	12	13	2129	2128	2123	
5	QPSK	25	0	2125	2130	2134	22.3
5	16QAM	1	0	2130	2113	2124	
5	16QAM	1	12	2133	2122	2116	
5	16QAM	1	24	2124	2138	2134	22.3
5	16QAM	12	0	2124	2128	2123	
5	16QAM	12	7	2111	2117	2127	
5	16QAM	12	13	2137	2132	2131	22.3
5	16QAM	25	0	2124	2118	2111	
5	64QAM	1	0	2128	2125	2136	
5	64QAM	1	12	2128	2120	2132	22.3
5	64QAM	1	24	2120	2123	2114	
5	64QAM	12	0	2114	2097	2113	
5	64QAM	12	7	2111	2110	2109	22
5	64QAM	12	13	2115	2113	2114	
5	64QAM	25	0	2106	2120	2096	



Band 12							
Art 0							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)
Channel				2300	2306	2330	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	24.32	24.27	24.27	25
10	QPSK	1	25	24.30	24.30	24.33	
10	QPSK	1	49	24.37	24.38	24.31	
10	QPSK	25	0	23.43	23.46	23.43	24
10	QPSK	25	12	23.50	23.42	23.45	
10	QPSK	25	25	23.51	23.53	23.50	
10	QPSK	50	0	23.52	23.46	23.47	24
10	16QAM	1	0	23.73	23.65	23.64	
10	16QAM	1	25	23.70	23.72	23.69	
10	16QAM	1	49	23.77	23.74	23.72	23
10	16QAM	25	0	22.44	22.46	22.47	
10	16QAM	25	12	22.51	22.47	22.46	
10	16QAM	25	25	22.49	22.51	22.51	23
10	16QAM	50	0	22.53	22.47	22.44	
10	64QAM	1	0	22.63	22.47	22.49	
10	64QAM	1	25	22.61	22.64	22.61	23
10	64QAM	1	49	22.67	22.60	22.60	
10	64QAM	25	0	21.46	21.47	21.46	
10	64QAM	25	12	21.56	21.49	21.49	22
10	64QAM	25	25	21.51	21.55	21.53	
10	64QAM	50	0	21.55	21.48	21.49	
Channel				2306	2306	2310	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	24.31	24.26	24.21	25
5	QPSK	1	12	24.22	24.21	24.24	
5	QPSK	1	24	24.36	24.30	24.25	
5	QPSK	12	0	23.40	23.46	23.42	24
5	QPSK	12	7	23.46	23.40	23.41	
5	QPSK	12	13	23.48	23.43	23.46	
5	QPSK	25	0	23.48	23.42	23.47	24
5	16QAM	1	0	23.71	23.63	23.59	
5	16QAM	1	12	23.69	23.62	23.61	
5	16QAM	1	24	23.76	23.73	23.65	23
5	16QAM	12	0	22.34	22.38	22.43	
5	16QAM	12	7	22.46	22.43	22.43	
5	16QAM	12	13	22.39	22.43	22.45	23
5	16QAM	25	0	22.47	22.44	22.36	
5	64QAM	1	0	22.46	22.46	22.49	
5	64QAM	1	12	22.58	22.61	22.57	23
5	64QAM	1	24	22.63	22.50	22.54	
5	64QAM	12	0	21.38	21.40	21.46	
5	64QAM	12	7	21.55	21.46	21.45	22
5	64QAM	12	13	21.46	21.51	21.43	
5	64QAM	25	0	21.49	21.48	21.49	
Channel				2306	2306	2310	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	24.28	24.17	24.21	25
3	QPSK	1	8	24.20	24.29	24.27	
3	QPSK	1	14	24.32	24.28	24.23	
3	QPSK	8	0	23.40	23.38	23.39	24
3	QPSK	8	4	23.44	23.41	23.40	
3	QPSK	8	7	23.41	23.42	23.50	
3	QPSK	15	0	23.42	23.38	23.38	24
3	16QAM	1	0	23.71	23.56	23.63	
3	16QAM	1	8	23.61	23.68	23.63	
3	16QAM	1	14	23.73	23.73	23.72	23
3	16QAM	8	0	22.41	22.37	22.41	
3	16QAM	8	4	22.42	22.45	22.45	
3	16QAM	8	7	22.46	22.43	22.51	23
3	16QAM	15	0	22.51	22.45	22.43	
3	64QAM	1	0	22.46	22.37	22.40	
3	64QAM	1	8	22.56	22.60	22.56	23
3	64QAM	1	14	22.59	22.51	22.60	
3	64QAM	8	0	21.40	21.37	21.47	
3	64QAM	8	4	21.48	21.43	21.49	22
3	64QAM	8	7	21.51	21.54	21.44	
3	64QAM	15	0	21.54	21.45	21.41	
Channel				2307	2306	2310	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	716.3	
1.4	QPSK	1	0	24.29	24.18	24.23	25
1.4	QPSK	1	3	24.24	24.30	24.29	
1.4	QPSK	1	5	24.29	24.28	24.27	
1.4	QPSK	3	0	24.23	24.11	24.15	24
1.4	QPSK	3	1	24.14	24.22	24.23	
1.4	QPSK	3	3	24.19	24.18	24.22	
1.4	QPSK	6	0	23.51	23.37	23.41	24
1.4	16QAM	1	0	23.69	23.60	23.63	
1.4	16QAM	1	3	23.66	23.68	23.65	
1.4	16QAM	1	5	23.75	23.69	23.68	24
1.4	16QAM	3	0	23.65	23.50	23.63	
1.4	16QAM	3	1	23.62	23.63	23.61	
1.4	16QAM	3	3	23.69	23.62	23.58	23
1.4	16QAM	6	0	22.44	22.44	22.35	
1.4	64QAM	1	0	22.48	22.47	22.48	
1.4	64QAM	1	3	22.55	22.61	22.61	23
1.4	64QAM	1	5	22.58	22.53	22.57	
1.4	64QAM	3	0	22.38	22.40	22.40	
1.4	64QAM	3	1	22.51	22.59	22.52	23
1.4	64QAM	3	3	22.58	22.53	22.53	
1.4	64QAM	6	0	21.60	21.38	21.46	



Band 13							
Art 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				2320			
Frequency (MHz)				782			
10	GPSK	1	0		24.62		25
10	GPSK	1	25		24.48		
10	GPSK	1	49		24.45		
10	GPSK	25	0		23.54		24
10	GPSK	25	12		23.56		
10	GPSK	25	25		23.61		
10	GPSK	50	0		23.60		24
10	16QAM	1	0		23.79		
10	16QAM	1	25		23.62		
10	16QAM	1	49		23.62		23
10	16QAM	25	0		22.56		
10	16QAM	25	12		22.62		
10	16QAM	25	25		22.63		23
10	16QAM	50	0		22.58		
10	64QAM	1	0		22.74		
10	64QAM	1	25		22.72		23
10	64QAM	1	49		22.75		
10	64QAM	25	0		21.58		
10	64QAM	25	12		21.64		22
10	64QAM	25	25		21.64		
10	64QAM	50	0		21.59		
Channel				23205			
Frequency (MHz)				779.5			
5	GPSK	1	0	24.38	24.36	24.39	25
5	GPSK	1	12	24.43	24.48	24.40	
5	GPSK	1	24	24.47	24.48	24.42	
5	GPSK	12	0	23.93	23.45	23.50	24
5	GPSK	12	7	23.96	23.56	23.47	
5	GPSK	12	13	23.67	23.60	23.54	
5	GPSK	25	0	23.51	23.55	23.59	24
5	16QAM	1	0	23.69	23.74	23.76	
5	16QAM	1	12	23.61	23.72	23.77	
5	16QAM	1	24	23.60	23.72	23.73	23
5	16QAM	12	0	22.51	22.50	22.53	
5	16QAM	12	7	22.54	22.55	22.60	
5	16QAM	12	13	22.61	22.56	22.60	23
5	16QAM	25	0	22.50	22.52	22.56	
5	64QAM	1	0	22.71	22.65	22.72	
5	64QAM	1	12	22.71	22.65	22.64	23
5	64QAM	1	24	22.75	22.65	22.66	
5	64QAM	12	0	21.55	21.50	21.51	
5	64QAM	12	7	21.58	21.63	21.56	22
5	64QAM	12	13	21.63	21.57	21.59	
5	64QAM	25	0	21.59	21.49	21.59	



Band 14							
Art 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				2330			
Frequency (MHz)				793			
10	QPSK	1	0	24.45			25
10	QPSK	1	25	24.40			
10	QPSK	1	49	24.35			
10	QPSK	25	0	23.49			24
10	QPSK	25	12	23.32			
10	QPSK	25	25	23.96			
10	QPSK	50	0	23.48			24
10	16QAM	1	0	23.89			
10	16QAM	1	25	23.76			
10	16QAM	1	49	23.76			23
10	16QAM	25	0	22.50			
10	16QAM	25	12	22.51			
10	16QAM	25	25	22.54			23
10	16QAM	50	0	22.48			
10	64QAM	1	0	22.70			
10	64QAM	1	25	22.76			22
10	64QAM	1	49	22.63			
10	64QAM	25	0	21.53			
10	64QAM	25	12	21.53			22
10	64QAM	25	25	21.59			
10	64QAM	50	0	21.51			
Channel				23305			
Frequency (MHz)				790.5			
5	QPSK	1	0	24.38	24.44	24.43	25
5	QPSK	1	12	24.41	24.36	24.42	
5	QPSK	1	24	24.30	24.27	24.31	
5	QPSK	12	0	23.39	23.43	23.43	24
5	QPSK	12	7	23.49	23.44	23.47	
5	QPSK	12	13	23.55	23.46	23.55	
5	QPSK	25	0	23.42	23.43	23.48	24
5	16QAM	1	0	23.82	23.81	23.87	
5	16QAM	1	12	23.66	23.66	23.69	
5	16QAM	1	24	23.70	23.70	23.76	23
5	16QAM	12	0	22.50	22.41	22.41	
5	16QAM	12	7	22.41	22.50	22.46	
5	16QAM	12	13	22.51	22.49	22.51	23
5	16QAM	25	0	22.41	22.48	22.39	
5	64QAM	1	0	22.70	22.61	22.65	
5	64QAM	1	12	22.75	22.66	22.75	23
5	64QAM	1	24	22.60	22.63	22.54	
5	64QAM	12	0	21.51	21.47	21.46	
5	64QAM	12	7	21.44	21.47	21.47	22
5	64QAM	12	13	21.50	21.54	21.54	
5	64QAM	25	0	21.42	21.49	21.51	



Band 17							
Art 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				2370	2370	2300	
Frequency (MHz)				709	710	711	
10	GPSK	1	0	24.28	24.29	24.25	25
10	GPSK	1	25	24.33	24.32	24.31	
10	GPSK	1	49	24.38	24.37	24.32	
10	GPSK	25	0	23.38	23.38	23.37	24
10	GPSK	25	12	23.54	23.45	23.44	
10	GPSK	25	25	23.54	23.54	23.54	
10	GPSK	50	0	23.52	23.43	23.43	24
10	16QAM	1	0	23.65	23.64	23.64	
10	16QAM	1	25	23.69	23.69	23.71	
10	16QAM	1	49	23.71	23.73	23.70	23
10	16QAM	25	0	22.38	22.39	22.40	
10	16QAM	25	12	22.54	22.45	22.45	
10	16QAM	25	25	22.54	22.58	22.51	23
10	16QAM	50	0	22.52	22.43	22.41	
10	64QAM	1	0	22.56	22.51	22.53	
10	64QAM	1	25	22.64	22.64	22.66	23
10	64QAM	1	49	22.64	22.64	22.62	
10	64QAM	25	0	21.43	21.42	21.43	
10	64QAM	25	12	21.58	21.50	21.49	22
10	64QAM	25	25	21.57	21.55	21.57	
10	64QAM	50	0	21.54	21.46	21.44	
Channel				2375	2370	2305	
Frequency (MHz)				706.5	710	713.5	
5	GPSK	1	0	24.20	24.23	24.22	25
5	GPSK	1	12	24.23	24.32	24.28	
5	GPSK	1	24	24.31	24.33	24.27	
5	GPSK	12	0	23.33	23.29	23.31	24
5	GPSK	12	7	23.48	23.45	23.43	
5	GPSK	12	13	23.48	23.53	23.45	
5	GPSK	25	0	23.51	23.38	23.39	24
5	16QAM	1	0	23.63	23.62	23.59	
5	16QAM	1	12	23.68	23.61	23.68	
5	16QAM	1	24	23.68	23.73	23.65	23
5	16QAM	12	0	22.34	22.29	22.31	
5	16QAM	12	7	22.44	22.35	22.45	
5	16QAM	12	13	22.54	22.55	22.45	23
5	16QAM	25	0	22.42	22.40	22.35	
5	64QAM	1	0	22.48	22.44	22.53	
5	64QAM	1	12	22.60	22.54	22.62	23
5	64QAM	1	24	22.61	22.54	22.54	
5	64QAM	12	0	21.35	21.36	21.37	
5	64QAM	12	7	21.49	21.49	21.46	22
5	64QAM	12	13	21.55	21.47	21.54	
5	64QAM	25	0	21.52	21.42	21.43	



Band 26									
Art 0									
Channel	Power			Tune-up limit (dBm)					
Channel	Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq						
20765	821.5	831.5	841.5						
Frequency (MHz)									
15	GPSK	1	0	24.39	24.31	24.28	25		
15	GPSK	1	37	24.30	24.29	24.28			
15	GPSK	1	74	24.32	24.29	24.17			
15	GPSK	36	0	23.46	23.45	23.42	24		
15	GPSK	36	20	23.54	23.41	23.46			
15	GPSK	36	39	23.47	23.44	23.40			
15	GPSK	75	0	23.50	23.39	23.41			
15	16QAM	1	0	23.68	23.60	23.62	24		
15	16QAM	1	37	23.62	23.63	23.61			
15	16QAM	1	74	23.64	23.59	23.47			
15	16QAM	36	0	22.49	22.44	22.45	23		
15	16QAM	36	20	22.51	22.43	22.47			
15	16QAM	36	39	22.49	22.46	22.42			
15	16QAM	75	0	22.53	22.43	22.42			
15	64QAM	1	0	22.62	22.49	22.46	23		
15	64QAM	1	37	22.58	22.54	22.52			
15	64QAM	1	74	22.57	22.55	22.05			
15	64QAM	36	0	21.80	21.50	21.49	22		
15	64QAM	36	20	21.53	21.44	21.51			
15	64QAM	36	39	21.51	21.51	21.47			
15	64QAM	75	0	21.53	21.44	21.45			
Channel	26740	26865	26900						
Frequency (MHz)									
Channel	819	831.5	844						
10	GPSK	1	0	24.29	24.23	24.27	25		
10	GPSK	1	25	24.25	24.27	24.27			
10	GPSK	1	49	24.26	24.21	24.17			
10	GPSK	25	0	23.41	23.42	23.35	24		
10	GPSK	25	12	23.49	23.38	23.43			
10	GPSK	25	25	23.42	23.39	23.36			
10	GPSK	50	0	23.43	23.33	23.39			
10	16QAM	1	0	23.60	23.60	23.57	24		
10	16QAM	1	25	23.54	23.54	23.53			
10	16QAM	1	49	23.62	23.63	23.42			
10	16QAM	25	0	22.41	22.38	22.40	23		
10	16QAM	25	12	22.44	22.37	22.47			
10	16QAM	25	25	22.49	22.40	22.41			
10	16QAM	50	0	22.49	22.39	22.32			
10	64QAM	1	0	22.45	22.41	22.46	23		
10	64QAM	1	25	22.49	22.54	22.47			
10	64QAM	1	49	22.54	22.48	22.03			
10	64QAM	25	0	21.50	21.48	21.49	22		
10	64QAM	25	12	21.44	21.43	21.51			
10	64QAM	25	25	21.48	21.45	21.37			
10	64QAM	50	0	21.43	21.44	21.38			
Channel	26715	26865	27015						
Frequency (MHz)									
Channel	816.5	831.5	846.5						
5	GPSK	1	0	24.29	24.27	24.19	25		
5	GPSK	1	12	24.23	24.28	24.18			
5	GPSK	1	24	24.32	24.30	24.17			
5	GPSK	12	0	23.42	23.37	23.39	24		
5	GPSK	12	7	23.51	23.41	23.45			
5	GPSK	12	13	23.47	23.37	23.30			
5	GPSK	25	0	23.43	23.37	23.40			
5	16QAM	1	0	23.68	23.63	23.58	24		
5	16QAM	1	12	23.54	23.55	23.59			
5	16QAM	1	24	23.62	23.63	23.44			
5	16QAM	12	0	22.42	22.35	22.37	23		
5	16QAM	12	7	22.46	22.42	22.41			
5	16QAM	12	13	22.46	22.41	22.42			
5	16QAM	25	0	22.52	22.41	22.38			
5	64QAM	1	0	22.43	22.45	22.45	23		
5	64QAM	1	12	22.54	22.53	22.47			
5	64QAM	1	24	22.55	22.54	21.95			
5	64QAM	12	0	21.47	21.46	21.41	22		
5	64QAM	12	7	21.52	21.39	21.48			
5	64QAM	12	13	21.49	21.45	21.45			
5	64QAM	25	0	21.51	21.44	21.39			
Channel	26705	26865	27033						
Frequency (MHz)									
Channel	815.5	831.5	847.5						
3	GPSK	1	0	24.28	24.22	24.24	25		
3	GPSK	1	8	24.24	24.25	24.27			
3	GPSK	1	14	24.30	24.29	24.16			
3	GPSK	8	0	23.45	23.42	23.32	24		
3	GPSK	8	4	23.53	23.36	23.41			
3	GPSK	8	7	23.47	23.37	23.37			
3	GPSK	15	0	23.43	23.34	23.37			
3	16QAM	1	0	23.64	23.59	23.56	24		
3	16QAM	1	8	23.57	23.55	23.61			
3	16QAM	1	14	23.61	23.55	23.41			
3	16QAM	8	0	22.44	22.40	22.43	23		
3	16QAM	8	4	22.42	22.36	22.46			
3	16QAM	8	7	22.49	22.40	22.32			
3	16QAM	15	0	22.51	22.33	22.38			
3	64QAM	1	0	22.44	22.40	22.42	23		
3	64QAM	1	8	22.50	22.48	22.43			
3	64QAM	1	14	22.57	22.49	21.97			
3	64QAM	8	0	21.45	21.48	21.40	22		
3	64QAM	8	4	21.47	21.41	21.44			
3	64QAM	8	7	21.49	21.44	21.42			
3	64QAM	15	0	21.43	21.44	21.39			
Channel	26697	26865	27033						
Frequency (MHz)									
Channel	814.7	831.5	848.3						
1.4	GPSK	1	0	24.26	24.21	24.25	25		
1.4	GPSK	1	3	24.25	24.27	24.25			
1.4	GPSK	1	5	24.29	24.25	24.15			
1.4	GPSK	3	0	24.33	24.15	24.20	24		
1.4	GPSK	3	1	24.19	24.17	24.16			
1.4	GPSK	3	3	24.27	24.25	24.05			
1.4	GPSK	6	0	23.46	23.38	23.35	24		
1.4	16QAM	1	0	23.66	23.50	23.60			
1.4	16QAM	1	3	23.62	23.63	23.61	24		
1.4	16QAM	1	5	23.64	23.55	23.45			
1.4	16QAM	3	0	23.58	23.46	23.54	23		
1.4	16QAM	3	1	23.60	23.63	23.61			
1.4	16QAM	3	3	23.61	23.55	23.40			
1.4	16QAM	6	0	22.50	22.35	22.42	23		
1.4	64QAM	1	0	22.42	22.49	22.45			
1.4	64QAM	1	3	22.51	22.49	22.43	23		
1.4	64QAM	1	5	22.47	22.54	22.05			
1.4	64QAM	3	0	22.33	22.47	22.38	23		
1.4	64QAM	3	1	22.45	22.42	22.42			
1.4	64QAM	3	3	22.37	22.47	21.95	22		
1.4	64QAM	6	0	21.52	21.36	21.40			



Band 30							
Art 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				27710			
Frequency (MHz)				2310			
10	QPSK	1	0		21.15		22.1
10	QPSK	1	25		21.16		
10	QPSK	1	49		21.11		
10	QPSK	25	0		20.89		22.1
10	QPSK	25	12		20.88		
10	QPSK	25	25		20.89		
10	QPSK	50	0		20.88		22.1
10	16QAM	1	0		20.79		
10	16QAM	1	25		20.86		
10	16QAM	1	49		20.71		22.1
10	16QAM	25	0		20.84		
10	16QAM	25	12		20.85		
10	16QAM	25	25		20.82		22.1
10	16QAM	50	0		20.84		
10	64QAM	1	0		21.03		
10	64QAM	1	25		21.12		22.1
10	64QAM	1	49		20.99		
10	64QAM	25	0		20.83		
10	64QAM	25	12		20.82		22
10	64QAM	25	25		20.83		
10	64QAM	50	0		20.91		
Channel				27665	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	20.76	20.74	20.74	22.1
5	QPSK	1	12	20.79	20.75	20.74	
5	QPSK	1	24	20.78	20.77	20.79	
5	QPSK	12	0	20.80	20.82	20.85	22.1
5	QPSK	12	7	20.88	20.87	20.88	
5	QPSK	12	13	20.94	20.90	20.93	
5	QPSK	25	0	20.85	20.87	20.92	22.1
5	16QAM	1	0	20.81	20.82	20.82	
5	16QAM	1	12	20.82	20.81	20.78	
5	16QAM	1	24	20.80	20.80	20.79	22.1
5	16QAM	12	0	20.88	20.79	20.88	
5	16QAM	12	7	20.84	20.80	20.88	
5	16QAM	12	13	20.86	20.82	20.82	22.1
5	16QAM	25	0	20.83	20.86	20.84	
5	64QAM	1	0	21.00	20.98	21.04	
5	64QAM	1	12	21.10	21.06	21.11	22.1
5	64QAM	1	24	21.01	20.96	21.02	
5	64QAM	12	0	20.85	20.87	20.88	
5	64QAM	12	7	20.87	20.91	20.88	22
5	64QAM	12	13	20.81	20.87	20.88	
5	64QAM	25	0	20.90	20.90	20.95	



Band 66							
Art 2							
Channel	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)
Channel	Frequency (MHz)						
130092 - 130222							
1720 - 1745 - 1770							
20	QPSK	1	0	23.83	23.92	23.94	25
20	QPSK	1	49	23.77	23.89	23.83	
20	QPSK	1	99	23.78	23.82	23.75	
20	QPSK	50	0	23.19	23.25	23.25	24
20	QPSK	50	24	23.25	23.28	23.30	
20	QPSK	50	50	23.20	23.30	23.23	
20	QPSK	100	0	23.21	23.23	23.32	24
20	16QAM	1	0	23.41	23.59	23.60	
20	16QAM	1	49	23.41	23.52	23.48	
20	16QAM	1	99	23.46	23.43	23.35	23
20	16QAM	50	0	22.19	22.30	22.28	
20	16QAM	50	24	22.25	22.26	22.33	
20	16QAM	50	50	22.22	22.28	22.26	23
20	16QAM	100	0	22.21	22.25	22.33	
20	64QAM	1	0	22.31	22.44	22.44	
20	64QAM	1	49	22.26	22.32	22.35	23
20	64QAM	1	99	22.32	22.33	22.13	
20	64QAM	50	0	21.21	21.17	21.30	
20	64QAM	50	24	21.27	21.30	21.33	22
20	64QAM	50	50	21.23	21.30	21.25	
20	64QAM	100	0	21.25	21.28	21.33	
130047 - 130222 - 130297							
1717.5 - 1745 - 1772.5							
15	QPSK	1	0	23.73	23.82	23.87	25
15	QPSK	1	37	23.74	23.87	23.76	
15	QPSK	1	74	23.74	23.74	23.65	
15	QPSK	36	0	23.09	23.25	23.24	24
15	QPSK	36	20	23.22	23.19	23.20	
15	QPSK	36	39	23.14	23.28	23.18	
15	QPSK	75	0	23.17	23.21	23.23	24
15	16QAM	1	0	23.32	23.49	23.55	
15	16QAM	1	37	23.34	23.48	23.38	
15	16QAM	1	74	23.39	23.38	23.35	23
15	16QAM	36	0	22.18	22.23	22.25	
15	16QAM	36	20	22.21	22.17	22.27	
15	16QAM	36	39	22.16	22.18	22.21	23
15	16QAM	75	0	22.17	22.18	22.25	
15	64QAM	1	0	22.28	22.44	22.36	
15	64QAM	1	37	22.17	22.24	22.26	23
15	64QAM	1	74	22.31	22.29	22.11	
15	64QAM	36	0	21.13	21.16	21.29	
15	64QAM	36	20	21.28	21.25	21.24	22
15	64QAM	36	39	21.16	21.28	21.22	
15	64QAM	75	0	21.16	21.28	21.23	
130022 - 130222 - 130292							
1715 - 1745 - 1775							
10	QPSK	1	0	23.80	23.91	23.88	25
10	QPSK	1	25	23.68	23.84	23.75	
10	QPSK	1	49	23.72	23.73	23.75	
10	QPSK	25	0	23.18	23.19	23.25	24
10	QPSK	25	12	23.25	23.22	23.26	
10	QPSK	25	25	23.13	23.24	23.23	
10	QPSK	50	0	23.17	23.14	23.30	24
10	16QAM	1	0	23.34	23.54	23.54	
10	16QAM	1	25	23.37	23.50	23.41	
10	16QAM	1	49	23.43	23.33	23.34	23
10	16QAM	25	0	22.19	22.29	22.28	
10	16QAM	25	12	22.21	22.23	22.27	
10	16QAM	25	25	22.22	22.18	22.25	23
10	16QAM	50	0	22.17	22.20	22.23	
10	64QAM	1	0	22.30	22.34	22.36	
10	64QAM	1	25	22.18	22.25	22.26	23
10	64QAM	1	49	22.22	22.25	22.04	
10	64QAM	25	0	21.13	21.12	21.25	
10	64QAM	25	12	21.20	21.25	21.24	22
10	64QAM	25	25	21.14	21.26	21.25	
10	64QAM	50	0	21.16	21.28	21.23	
131987 - 130222 - 130297							
1712.5 - 1745 - 1777.5							
5	QPSK	1	0	23.79	23.87	23.89	25
5	QPSK	1	12	23.70	23.85	23.78	
5	QPSK	1	24	23.74	23.77	23.70	
5	QPSK	12	0	23.12	23.23	23.21	24
5	QPSK	12	7	23.19	23.17	23.20	
5	QPSK	12	13	23.17	23.26	23.17	
5	QPSK	25	0	23.15	23.17	23.22	24
5	16QAM	1	0	23.34	23.55	23.50	
5	16QAM	1	12	23.38	23.46	23.38	
5	16QAM	1	24	23.40	23.33	23.25	23
5	16QAM	12	0	22.18	22.27	22.26	
5	16QAM	12	7	22.25	22.19	22.24	
5	16QAM	12	13	22.12	22.19	22.18	23
5	16QAM	25	0	22.13	22.23	22.24	
5	64QAM	1	0	22.28	22.39	22.35	
5	64QAM	1	12	22.22	22.23	22.35	23
5	64QAM	1	24	22.24	22.28	22.13	
5	64QAM	12	0	21.19	21.15	21.22	
5	64QAM	12	7	21.22	21.30	21.25	22
5	64QAM	12	13	21.21	21.22	21.25	
5	64QAM	25	0	21.14	21.24	21.33	
131979 - 130222 - 130295							
1710.7 - 1745 - 1779.3							
1.4	QPSK	1	0	23.80	23.84	23.91	25
1.4	QPSK	1	3	23.73	23.85	23.81	
1.4	QPSK	1	5	23.74	23.76	23.70	
1.4	QPSK	3	0	23.80	23.90	23.81	24
1.4	QPSK	3	1	23.68	23.78	23.74	
1.4	QPSK	3	3	23.65	23.70	23.68	
1.4	QPSK	6	0	23.14	23.15	23.22	24
1.4	16QAM	1	0	23.38	23.56	23.51	
1.4	16QAM	1	3	23.37	23.52	23.41	
1.4	16QAM	1	5	23.46	23.39	23.32	23
1.4	16QAM	3	0	23.38	23.54	23.44	
1.4	16QAM	3	1	23.33	23.44	23.36	
1.4	16QAM	3	3	23.38	23.28	23.26	23
1.4	64QAM	1	0	22.12	22.20	22.23	
1.4	64QAM	1	3	22.28	22.35	22.40	
1.4	64QAM	1	3	22.22	22.22	22.28	23
1.4	64QAM	1	5	22.22	22.31	22.12	
1.4	64QAM	3	0	22.19	22.29	22.37	
1.4	64QAM	3	1	22.14	22.13	22.23	23
1.4	64QAM	3	3	22.21	22.24	22.10	
1.4	64QAM	6	0	21.24	21.27	21.32	



Band 71							
Art 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				133222	133222	133272	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	24.41	24.33	24.29	25
20	QPSK	1	49	24.30	24.32	24.32	
20	QPSK	1	99	24.34	24.33	24.28	
20	QPSK	50	0	23.98	23.49	23.45	24
20	QPSK	50	24	23.53	23.43	23.44	
20	QPSK	50	50	23.49	23.41	23.40	
20	QPSK	100	0	23.50	23.46	23.43	24
20	16QAM	1	0	23.77	23.66	23.61	
20	16QAM	1	49	23.65	23.69	23.67	
20	16QAM	1	99	23.67	23.70	23.59	23
20	16QAM	50	0	22.47	22.40	22.40	
20	16QAM	50	24	22.50	22.43	22.43	
20	16QAM	50	50	22.50	22.52	22.51	23
20	16QAM	100	0	22.49	22.42	22.47	
20	64QAM	1	0	22.58	22.44	22.45	
20	64QAM	1	49	22.54	22.54	22.55	23
20	64QAM	1	99	22.58	22.57	22.50	
20	64QAM	50	0	21.48	21.41	21.41	
20	64QAM	50	24	21.53	21.48	21.47	22
20	64QAM	50	50	21.49	21.54	21.55	
20	64QAM	100	0	21.52	21.41	21.49	
Channel				133197	133207	133297	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	24.35	24.19	24.27	25
15	QPSK	1	37	24.23	24.29	24.26	
15	QPSK	1	74	24.34	24.28	24.20	
15	QPSK	36	0	23.98	23.31	23.33	24
15	QPSK	36	20	23.46	23.40	23.41	
15	QPSK	36	39	23.49	23.43	23.45	
15	QPSK	75	0	23.40	23.36	23.45	24
15	16QAM	1	0	23.73	23.62	23.53	
15	16QAM	1	37	23.58	23.63	23.59	
15	16QAM	1	74	23.66	23.69	23.57	23
15	16QAM	36	0	22.38	22.34	22.33	
15	16QAM	36	20	22.40	22.38	22.40	
15	16QAM	36	39	22.42	22.44	22.43	23
15	16QAM	75	0	22.45	22.40	22.42	
15	64QAM	1	0	22.63	22.38	22.45	
15	64QAM	1	37	22.45	22.54	22.54	23
15	64QAM	1	74	22.52	22.52	22.40	
15	64QAM	36	0	21.39	21.35	21.33	
15	64QAM	36	20	21.52	21.48	21.40	22
15	64QAM	36	39	21.41	21.53	21.50	
15	64QAM	75	0	21.45	21.36	21.49	
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	683	
10	QPSK	1	0	24.32	24.26	24.27	25
10	QPSK	1	25	24.27	24.31	24.25	
10	QPSK	1	49	24.26	24.23	24.21	
10	QPSK	25	0	23.39	23.34	23.31	24
10	QPSK	25	12	23.51	23.38	23.36	
10	QPSK	25	25	23.47	23.43	23.45	
10	QPSK	50	0	23.41	23.34	23.42	24
10	16QAM	1	0	23.69	23.67	23.54	
10	16QAM	1	25	23.59	23.65	23.67	
10	16QAM	1	49	23.69	23.63	23.57	23
10	16QAM	25	0	22.42	22.40	22.40	
10	16QAM	25	12	22.43	22.39	22.43	
10	16QAM	25	25	22.43	22.43	22.50	23
10	16QAM	50	0	22.46	22.40	22.45	
10	64QAM	1	0	22.48	22.38	22.40	
10	64QAM	1	25	22.50	22.52	22.50	23
10	64QAM	1	49	22.58	22.53	22.49	
10	64QAM	25	0	21.42	21.41	21.37	
10	64QAM	25	12	21.48	21.48	21.42	22
10	64QAM	25	25	21.39	21.46	21.46	
10	64QAM	50	0	21.50	21.36	21.49	
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	685.5	
5	QPSK	1	0	24.36	24.21	24.19	25
5	QPSK	1	12	24.24	24.27	24.29	
5	QPSK	1	24	24.28	24.23	24.21	
5	QPSK	12	0	23.42	23.37	23.35	24
5	QPSK	12	7	23.51	23.36	23.43	
5	QPSK	12	13	23.44	23.42	23.47	
5	QPSK	25	0	23.45	23.35	23.40	24
5	16QAM	1	0	23.72	23.61	23.54	
5	16QAM	1	12	23.56	23.69	23.67	
5	16QAM	1	24	23.68	23.62	23.55	23
5	16QAM	12	0	22.44	22.38	22.38	
5	16QAM	12	7	22.45	22.33	22.33	
5	16QAM	12	13	22.43	22.51	22.48	23
5	16QAM	25	0	22.41	22.39	22.40	
5	64QAM	1	0	22.48	22.36	22.40	
5	64QAM	1	12	22.47	22.52	22.55	23
5	64QAM	1	24	22.54	22.47	22.48	
5	64QAM	12	0	21.48	21.36	21.36	
5	64QAM	12	7	21.45	21.47	21.44	22
5	64QAM	12	13	21.45	21.47	21.53	
5	64QAM	25	0	21.42	21.37	21.49	



Band 5							
Ar1 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				20450	20525	20600	
Frequency (MHz)				826	836.5	844	
10	QPSK	1	0	24.29	24.26	24.33	25
10	QPSK	1	25	24.18	24.17	24.22	
10	QPSK	1	49	24.19	24.23	24.13	
10	QPSK	25	0	23.30	23.32	23.30	24
10	QPSK	25	12	23.38	23.31	23.30	
10	QPSK	25	25	23.34	23.36	23.35	
10	QPSK	50	0	23.39	23.39	23.32	24
10	16QAM	1	0	23.66	23.63	23.61	
10	16QAM	1	25	23.58	23.59	23.57	
10	16QAM	1	49	23.66	23.56	23.53	23
10	16QAM	25	0	22.32	22.33	22.28	
10	16QAM	25	12	22.39	22.29	22.30	
10	16QAM	25	25	22.36	22.35	22.36	23
10	16QAM	50	0	22.39	22.37	22.30	
10	64QAM	1	0	22.50	22.50	22.46	
10	64QAM	1	25	22.54	22.57	22.53	23
10	64QAM	1	49	22.48	22.51	21.71	
10	64QAM	25	0	21.34	21.35	21.33	
10	64QAM	25	12	21.42	21.38	21.36	22
10	64QAM	25	25	21.38	21.40	21.13	
10	64QAM	50	0	21.45	21.44	21.21	
Channel				20452	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	24.24	24.22	24.19	25
5	QPSK	1	12	24.11	24.16	24.16	
5	QPSK	1	24	24.19	24.14	24.12	
5	QPSK	12	0	23.24	23.27	23.24	24
5	QPSK	12	7	23.35	23.31	23.29	
5	QPSK	12	13	23.30	23.30	23.33	
5	QPSK	25	0	23.31	23.38	23.26	24
5	16QAM	1	0	23.64	23.60	23.60	
5	16QAM	1	12	23.50	23.53	23.56	
5	16QAM	1	24	23.56	23.56	23.53	23
5	16QAM	12	0	22.32	22.28	22.21	
5	16QAM	12	7	22.30	22.28	22.23	
5	16QAM	12	13	22.26	22.30	22.36	23
5	16QAM	25	0	22.34	22.34	22.27	
5	64QAM	1	0	22.44	22.43	22.38	
5	64QAM	1	12	22.45	22.53	22.47	23
5	64QAM	1	24	22.45	22.49	21.61	
5	64QAM	12	0	21.28	21.35	21.29	
5	64QAM	12	7	21.33	21.32	21.28	22
5	64QAM	12	13	21.33	21.31	21.09	
5	64QAM	25	0	21.41	21.38	21.16	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	24.25	24.25	24.29	25
3	QPSK	1	8	24.12	24.13	24.21	
3	QPSK	1	14	24.13	24.14	24.10	
3	QPSK	8	0	23.26	23.26	23.29	24
3	QPSK	8	4	23.30	23.35	23.26	
3	QPSK	8	7	23.24	23.34	23.26	
3	QPSK	15	0	23.31	23.29	23.22	24
3	16QAM	1	0	23.62	23.54	23.54	
3	16QAM	1	8	23.48	23.54	23.50	
3	16QAM	1	14	23.56	23.54	23.50	23
3	16QAM	8	0	22.29	22.30	22.25	
3	16QAM	8	4	22.38	22.22	22.25	
3	16QAM	8	7	22.30	22.35	22.37	23
3	16QAM	15	0	22.37	22.36	22.29	
3	64QAM	1	0	22.47	22.44	22.37	
3	64QAM	1	8	22.48	22.57	22.53	23
3	64QAM	1	14	22.45	22.45	21.68	
3	64QAM	8	0	21.29	21.29	21.27	
3	64QAM	8	4	21.38	21.32	21.33	22
3	64QAM	8	7	21.31	21.37	21.06	
3	64QAM	15	0	21.43	21.37	21.12	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	24.27	24.26	24.21	25
1.4	QPSK	1	3	24.13	24.16	24.21	
1.4	QPSK	1	5	24.16	24.18	24.13	
1.4	QPSK	3	0	24.19	24.26	24.12	24
1.4	QPSK	3	1	24.03	24.09	24.13	
1.4	QPSK	3	3	24.15	24.17	24.04	
1.4	QPSK	6	0	23.33	23.30	23.26	24
1.4	16QAM	1	0	23.66	23.56	23.52	
1.4	16QAM	1	3	23.49	23.51	23.47	
1.4	16QAM	1	5	23.49	23.49	23.46	24
1.4	16QAM	3	0	23.61	23.46	23.50	
1.4	16QAM	3	1	23.43	23.47	23.40	
1.4	16QAM	3	3	23.42	23.47	23.44	23
1.4	16QAM	6	0	22.31	22.30	22.29	
1.4	64QAM	1	0	22.43	22.46	22.40	
1.4	64QAM	1	3	22.47	22.55	22.52	23
1.4	64QAM	1	5	22.39	22.49	21.68	
1.4	64QAM	3	0	22.42	22.37	22.34	
1.4	64QAM	3	1	22.44	22.47	22.42	23
1.4	64QAM	3	3	22.36	22.44	21.60	
1.4	64QAM	6	0	21.35	21.38	21.14	



Band 7							
Ari 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				2050	2100	2350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	24.57	24.58	23.68	24.7
20	QPSK	1	49	24.54	24.55	23.54	
20	QPSK	1	99	24.58	24.62	24.68	
20	QPSK	50	0	23.63	23.67	23.29	24
20	QPSK	50	24	23.68	23.64	23.51	
20	QPSK	50	50	23.54	23.48	23.53	
20	QPSK	100	0	23.59	23.63	23.45	24
20	16QAM	1	0	23.88	23.62	23.05	
20	16QAM	1	49	23.41	23.63	22.78	
20	16QAM	1	99	23.95	23.68	23.69	23
20	16QAM	50	0	22.81	22.66	21.37	
20	16QAM	50	24	22.60	22.65	21.73	
20	16QAM	50	50	22.56	22.50	22.68	23
20	16QAM	100	0	22.69	22.64	22.02	
20	64QAM	1	0	22.68	22.67	21.14	
20	64QAM	1	49	22.40	22.47	21.68	22
20	64QAM	1	99	22.52	22.54	21.83	
20	64QAM	50	0	21.65	21.89	21.00	
20	64QAM	50	24	21.62	21.66	21.09	22
20	64QAM	50	50	21.69	21.64	20.66	
20	64QAM	100	0	20.91	20.92	20.05	
Channel				2092	2100	2137.5	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.61	23.68	23.67	24.7
15	QPSK	1	37	23.52	23.51	23.54	
15	QPSK	1	74	24.58	24.61	24.67	
15	QPSK	36	0	22.26	22.27	22.26	24
15	QPSK	36	23	22.65	22.65	22.65	
15	QPSK	36	39	23.43	23.50	23.50	
15	QPSK	75	0	22.90	22.87	22.93	24
15	16QAM	1	0	23.02	23.01	23.02	
15	16QAM	1	37	22.72	22.68	22.73	
15	16QAM	1	74	23.66	23.65	23.63	23
15	16QAM	36	0	21.28	21.31	21.30	
15	16QAM	36	20	21.68	21.73	21.73	
15	16QAM	36	39	22.61	22.60	22.67	23
15	16QAM	75	0	21.95	22.00	21.93	
15	64QAM	1	0	21.06	21.08	21.06	
15	64QAM	1	37	21.66	21.64	21.68	23
15	64QAM	1	74	21.74	21.73	21.74	
15	64QAM	36	0	20.83	21.00	20.99	
15	64QAM	36	20	21.09	21.04	20.99	22
15	64QAM	36	39	20.64	20.63	20.56	
15	64QAM	75	0	20.02	19.99	19.96	
Channel				2092	2100	2140.0	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.58	23.60	23.63	24.7
10	QPSK	1	25	23.54	23.44	23.53	
10	QPSK	1	49	24.63	24.60	24.67	
10	QPSK	25	0	22.24	22.23	22.21	24
10	QPSK	25	12	22.61	22.61	22.65	
10	QPSK	25	25	23.53	23.48	23.50	
10	QPSK	50	0	22.89	22.91	22.89	24
10	16QAM	1	0	22.95	23.04	23.03	
10	16QAM	1	25	22.68	22.69	22.75	
10	16QAM	1	49	23.60	23.65	23.69	23
10	16QAM	25	0	21.36	21.29	21.29	
10	16QAM	25	12	21.63	21.67	21.72	
10	16QAM	25	25	22.65	22.62	22.65	23
10	16QAM	50	0	22.02	21.92	21.92	
10	64QAM	1	0	21.09	21.09	21.05	
10	64QAM	1	25	21.66	21.64	21.60	23
10	64QAM	1	49	21.83	21.82	21.75	
10	64QAM	25	0	20.94	21.00	20.92	
10	64QAM	25	12	21.02	21.05	21.02	22
10	64QAM	25	25	20.66	20.63	20.60	
10	64QAM	50	0	20.05	19.99	19.96	
Channel				2077.5	2100	2142.5	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.58	23.65	23.64	24.7
5	QPSK	1	12	23.46	23.48	23.44	
5	QPSK	1	24	24.64	24.66	24.63	
5	QPSK	12	0	22.24	22.23	22.19	24
5	QPSK	12	7	22.67	22.68	22.69	
5	QPSK	12	13	23.43	23.44	23.43	
5	QPSK	25	0	22.91	22.86	22.91	24
5	16QAM	1	0	23.00	23.00	22.95	
5	16QAM	1	12	22.78	22.74	22.70	
5	16QAM	1	24	23.59	23.60	23.67	23
5	16QAM	12	0	21.31	21.31	21.30	
5	16QAM	12	7	21.73	21.71	21.68	
5	16QAM	12	13	22.65	22.62	22.65	23
5	16QAM	25	0	21.96	22.01	22.02	
5	64QAM	1	0	21.10	21.14	21.04	
5	64QAM	1	12	21.61	21.64	21.64	23
5	64QAM	1	24	21.82	21.83	21.79	
5	64QAM	12	0	20.99	20.99	20.94	
5	64QAM	12	7	21.03	20.99	21.04	22
5	64QAM	12	13	20.65	20.65	20.57	
5	64QAM	25	0	20.05	20.01	19.99	



Band 12							
Art 1							
Bandwidth [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)
Channel				23090	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	24.31	24.25	24.23	25
10	QPSK	1	25	24.24	24.29	24.26	
10	QPSK	1	49	24.35	24.34	24.27	
10	QPSK	25	0	23.39	23.43	23.36	24
10	QPSK	25	12	23.40	23.38	23.45	
10	QPSK	25	25	23.44	23.38	23.40	
10	QPSK	50	0	23.48	23.40	23.41	24
10	16QAM	1	0	23.66	23.62	23.62	
10	16QAM	1	25	23.62	23.66	23.65	
10	16QAM	1	49	23.72	23.66	23.66	23
10	16QAM	25	0	22.38	22.40	22.40	
10	16QAM	25	12	22.48	22.41	22.41	
10	16QAM	25	25	22.44	22.46	22.40	23
10	16QAM	50	0	22.46	22.41	22.40	
10	64QAM	1	0	22.53	22.46	22.46	
10	64QAM	1	25	22.58	22.50	22.56	23
10	64QAM	1	49	22.64	22.56	22.54	
10	64QAM	25	0	21.44	21.44	21.43	
10	64QAM	25	12	21.53	21.44	21.45	22
10	64QAM	25	25	21.48	21.48	21.47	
10	64QAM	50	0	21.52	21.45	21.42	
Channel				23095	23095	23105	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	24.22	24.18	24.20	25
5	QPSK	1	12	24.19	24.29	24.22	
5	QPSK	1	24	24.32	24.25	24.27	
5	QPSK	12	0	23.30	23.41	23.29	24
5	QPSK	12	7	23.40	23.38	23.40	
5	QPSK	12	13	23.38	23.42	23.42	
5	QPSK	25	0	23.46	23.33	23.39	24
5	16QAM	1	0	23.59	23.56	23.52	
5	16QAM	1	12	23.57	23.57	23.60	
5	16QAM	1	24	23.66	23.62	23.62	23
5	16QAM	12	0	22.37	22.34	22.36	
5	16QAM	12	7	22.43	22.32	22.31	
5	16QAM	12	13	22.43	22.42	22.35	23
5	16QAM	25	0	22.36	22.33	22.35	
5	64QAM	1	0	22.43	22.37	22.38	
5	64QAM	1	12	22.57	22.54	22.47	23
5	64QAM	1	24	22.61	22.56	22.48	
5	64QAM	12	0	21.37	21.38	21.41	
5	64QAM	12	7	21.45	21.34	21.45	22
5	64QAM	12	13	21.38	21.44	21.43	
5	64QAM	25	0	21.52	21.37	21.38	
Channel				23095	23095	23105	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	24.24	24.19	24.21	25
3	QPSK	1	8	24.22	24.22	24.23	
3	QPSK	1	14	24.26	24.24	24.19	
3	QPSK	8	0	23.33	23.39	23.37	24
3	QPSK	8	4	23.41	23.38	23.40	
3	QPSK	8	7	23.35	23.41	23.42	
3	QPSK	15	0	23.43	23.31	23.31	24
3	16QAM	1	0	23.57	23.61	23.57	
3	16QAM	1	8	23.61	23.60	23.57	
3	16QAM	1	14	23.66	23.67	23.63	23
3	16QAM	8	0	22.30	22.30	22.38	
3	16QAM	8	4	22.40	22.38	22.37	
3	16QAM	8	7	22.42	22.40	22.39	23
3	16QAM	15	0	22.40	22.33	22.30	
3	64QAM	1	0	22.46	22.39	22.39	
3	64QAM	1	8	22.49	22.56	22.51	23
3	64QAM	1	14	22.56	22.53	22.44	
3	64QAM	8	0	21.41	21.40	21.39	
3	64QAM	8	4	21.48	21.43	21.42	22
3	64QAM	8	7	21.44	21.48	21.45	
3	64QAM	15	0	21.49	21.43	21.35	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				899.7	707.5	715.3	
1.4	QPSK	1	0	24.25	24.25	24.21	25
1.4	QPSK	1	3	24.15	24.25	24.19	
1.4	QPSK	1	5	24.26	24.24	24.21	
1.4	QPSK	3	0	24.24	24.18	24.14	24
1.4	QPSK	3	1	24.06	24.16	24.13	
1.4	QPSK	3	3	24.22	24.22	24.21	
1.4	QPSK	6	0	23.36	23.39	23.35	24
1.4	16QAM	1	0	23.57	23.56	23.52	
1.4	16QAM	1	3	23.55	23.62	23.56	
1.4	16QAM	1	5	23.66	23.65	23.65	24
1.4	16QAM	3	0	23.47	23.53	23.50	
1.4	16QAM	3	1	23.55	23.56	23.50	
1.4	16QAM	3	3	23.62	23.62	23.58	23
1.4	16QAM	6	0	22.45	22.34	22.35	
1.4	64QAM	1	0	22.51	22.38	22.38	
1.4	64QAM	1	3	22.49	22.51	22.52	23
1.4	64QAM	1	5	22.61	22.48	22.44	
1.4	64QAM	3	0	22.47	22.31	22.35	
1.4	64QAM	3	1	22.42	22.46	22.46	23
1.4	64QAM	3	3	22.59	22.41	22.37	
1.4	64QAM	6	0	21.45	21.41	21.36	



Band 13							
Art 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				2329	762		
Frequency (MHz)							
10	QPSK	1	0		24.36		25
10	QPSK	1	25		24.38		
10	QPSK	1	49		24.47		
10	QPSK	25	0		23.43		24
10	QPSK	25	12		23.53		
10	QPSK	25	25		23.51		
10	QPSK	50	0		23.53		24
10	16QAM	1	0		23.71		
10	16QAM	1	25		23.74		
10	16QAM	1	49		23.74		23
10	16QAM	25	0		22.48		
10	16QAM	25	12		22.54		
10	16QAM	25	25		22.55		23
10	16QAM	50	0		22.50		
10	64QAM	1	0		22.65		
10	64QAM	1	25		22.71		23
10	64QAM	1	49		22.63		
10	64QAM	25	0		21.51		
10	64QAM	25	12		21.56		22
10	64QAM	25	25		21.56		
10	64QAM	50	0		21.53		
Channel				23295	23230	23295	Tune-up limit (dBm)
Frequency (MHz)				779.5	792	794.5	
5	QPSK	1	0	24.29	24.31	24.35	25
5	QPSK	1	12	24.30	24.32	24.33	
5	QPSK	1	24	24.43	24.42	24.45	
5	QPSK	12	0	23.42	23.43	23.40	24
5	QPSK	12	7	23.47	23.41	23.50	
5	QPSK	12	13	23.49	23.53	23.46	
5	QPSK	25	0	23.47	23.45	23.52	24
5	16QAM	1	0	23.66	23.66	23.62	
5	16QAM	1	12	23.65	23.70	23.68	
5	16QAM	1	24	23.64	23.74	23.67	23
5	16QAM	12	0	22.39	22.43	22.46	
5	16QAM	12	7	22.49	22.53	22.51	
5	16QAM	12	13	22.48	22.50	22.53	23
5	16QAM	25	0	22.47	22.40	22.49	
5	64QAM	1	0	22.60	22.56	22.56	
5	64QAM	1	12	22.67	22.65	22.65	23
5	64QAM	1	24	22.62	22.59	22.58	
5	64QAM	12	0	21.41	21.45	21.49	
5	64QAM	12	7	21.49	21.53	21.47	22
5	64QAM	12	13	21.56	21.53	21.55	
5	64QAM	25	0	21.48	21.46	21.47	



Band 14							
Art 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				2330			
Frequency (MHz)				793			
10	QPSK	1	0		24.41		25
10	QPSK	1	25		24.31		
10	QPSK	1	49		24.29		
10	QPSK	25	0		23.42		24
10	QPSK	25	12		23.41		
10	QPSK	25	25		23.47		
10	QPSK	50	0		23.40		24
10	16QAM	1	0		23.76		
10	16QAM	1	25		23.78		
10	16QAM	1	49		23.69		23
10	16QAM	25	0		22.40		
10	16QAM	25	12		22.44		
10	16QAM	25	25		22.45		23
10	16QAM	50	0		22.40		
10	64QAM	1	0		22.65		
10	64QAM	1	25		22.68		23
10	64QAM	1	49		22.59		
10	64QAM	25	0		21.45		
10	64QAM	25	12		21.48		22
10	64QAM	25	25		21.50		
10	64QAM	50	0		21.42		
Channel				2335			
Frequency (MHz)				793			
5	QPSK	1	0	24.39	24.32	24.35	25
5	QPSK	1	12	24.22	24.29	24.26	
5	QPSK	1	24	24.24	24.25	24.24	
5	QPSK	12	0	23.34	23.34	23.40	24
5	QPSK	12	7	23.34	23.33	23.38	
5	QPSK	12	13	23.44	23.43	23.46	
5	QPSK	25	0	23.37	23.31	23.32	24
5	16QAM	1	0	23.74	23.67	23.76	
5	16QAM	1	12	23.69	23.68	23.72	
5	16QAM	1	24	23.69	23.64	23.60	23
5	16QAM	12	0	22.30	22.32	22.35	
5	16QAM	12	7	22.38	22.34	22.44	
5	16QAM	12	13	22.36	22.36	22.36	23
5	16QAM	25	0	22.37	22.38	22.35	
5	64QAM	1	0	22.58	22.60	22.65	
5	64QAM	1	12	22.59	22.59	22.63	23
5	64QAM	1	24	22.53	22.51	22.48	
5	64QAM	12	0	21.38	21.43	21.37	
5	64QAM	12	7	21.47	21.39	21.47	22
5	64QAM	12	13	21.43	21.43	21.50	
5	64QAM	25	0	21.42	21.41	21.33	



Band 17							
Art 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				23780	23790	23800	
Frequency (MHz)				706	710	711	
10	QPSK	1	0	24.24	24.16	24.23	25
10	QPSK	1	25	24.23	24.25	24.30	
10	QPSK	1	49	24.28	24.31	24.29	
10	QPSK	25	0	23.33	23.33	23.36	24
10	QPSK	25	12	23.45	23.39	23.39	
10	QPSK	25	25	23.48	23.50	23.48	
10	QPSK	50	0	23.47	23.38	23.37	24
10	16QAM	1	0	23.59	23.61	23.61	
10	16QAM	1	25	23.64	23.66	23.66	
10	16QAM	1	49	23.72	23.70	23.69	23
10	16QAM	25	0	22.34	22.34	22.36	
10	16QAM	25	12	22.45	22.41	22.40	
10	16QAM	25	25	22.44	22.46	22.46	23
10	16QAM	50	0	22.46	22.39	22.38	
10	64QAM	1	0	22.50	22.46	22.47	
10	64QAM	1	25	22.60	22.59	22.59	23
10	64QAM	1	49	22.55	22.61	22.59	
10	64QAM	25	0	21.36	21.33	21.36	
10	64QAM	25	12	21.46	21.46	21.43	22
10	64QAM	25	25	21.50	21.51	21.50	
10	64QAM	50	0	21.51	21.43	21.41	
Channel				23755	23760	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	24.15	24.10	24.15	25
5	QPSK	1	12	24.17	24.18	24.29	
5	QPSK	1	24	24.18	24.29	24.19	
5	QPSK	12	0	23.33	23.28	23.28	24
5	QPSK	12	7	23.38	23.32	23.31	
5	QPSK	12	13	23.44	23.43	23.47	
5	QPSK	25	0	23.40	23.29	23.35	24
5	16QAM	1	0	23.54	23.61	23.59	
5	16QAM	1	12	23.54	23.64	23.65	
5	16QAM	1	24	23.65	23.66	23.63	23
5	16QAM	12	0	22.29	22.31	22.36	
5	16QAM	12	7	22.43	22.33	22.31	
5	16QAM	12	13	22.37	22.45	22.39	23
5	16QAM	25	0	22.36	22.33	22.33	
5	64QAM	1	0	22.44	22.41	22.46	
5	64QAM	1	12	22.51	22.51	22.56	23
5	64QAM	1	24	22.49	22.55	22.57	
5	64QAM	12	0	21.27	21.24	21.36	
5	64QAM	12	7	21.39	21.40	21.36	22
5	64QAM	12	13	21.42	21.51	21.44	
5	64QAM	25	0	21.43	21.37	21.32	



Band 26								
Art 1								
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up	
				Low	Middle	High		
Channel				26085	26065	26065	limit	(dBm)
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	24.29	24.21	24.20	25	
15	QPSK	1	37	24.19	24.18	24.16		
15	QPSK	1	74	24.21	24.17	24.09		
15	QPSK	36	0	23.38	23.33	23.35	24	
15	QPSK	36	20	23.40	23.34	23.38		
15	QPSK	36	39	23.40	23.30	23.35		
15	QPSK	75	0	23.41	23.30	23.31		
15	16QAM	1	0	23.82	23.50	23.50		
15	16QAM	1	37	23.54	23.51	23.52		
15	16QAM	1	74	23.83	23.50	23.37		
15	16QAM	36	0	22.37	22.36	22.36	23	
15	16QAM	36	20	22.42	22.32	22.37		
15	16QAM	36	39	22.40	22.36	22.32		
15	16QAM	75	0	22.42	22.32	22.33		
15	64QAM	1	0	22.45	22.34	22.38	23	
15	64QAM	1	37	22.47	22.41	22.45		
15	64QAM	1	74	22.41	22.41	21.72		
15	64QAM	36	0	21.41	21.40	21.41	22	
15	64QAM	36	20	21.45	21.32	21.41		
15	64QAM	36	39	21.42	21.43	21.41		
15	64QAM	75	0	21.43	21.34	21.34		
Channel				26740	26665	26660		
Frequency (MHz)				819	831.5	844	limit	
10	QPSK	1	0	24.24	24.08	24.17	25	
10	QPSK	1	25	24.15	24.17	24.09		
10	QPSK	1	49	24.12	24.12	24.02		
10	QPSK	25	0	23.31	23.30	23.25	24	
10	QPSK	25	12	23.35	23.24	23.37		
10	QPSK	25	25	23.40	23.31	23.32		
10	QPSK	50	0	23.38	23.21	23.23		
10	16QAM	1	0	23.58	23.41	23.44		
10	16QAM	1	25	23.54	23.51	23.50		
10	16QAM	1	49	23.52	23.50	23.31		
10	16QAM	25	0	22.31	22.32	22.28	23	
10	16QAM	25	12	22.35	22.31	22.32		
10	16QAM	25	25	22.40	22.34	22.28		
10	16QAM	50	0	22.41	22.25	22.30		
10	64QAM	1	0	22.42	22.26	22.38	23	
10	64QAM	1	25	22.42	22.32	22.43		
10	64QAM	1	49	22.35	22.34	21.66		
10	64QAM	25	0	21.35	21.36	21.39	22	
10	64QAM	25	12	21.40	21.28	21.41		
10	64QAM	25	25	21.38	21.38	21.32		
10	64QAM	50	0	21.37	21.27	21.31		
Channel				26715	26665	27015		
Frequency (MHz)				816.5	831.5	846.5	limit	
5	QPSK	1	0	24.25	24.13	24.14	25	
5	QPSK	1	12	24.17	24.15	24.15		
5	QPSK	1	24	24.19	24.19	24.07		
5	QPSK	12	0	23.35	23.29	23.27	24	
5	QPSK	12	7	23.38	23.24	23.35		
5	QPSK	12	13	23.36	23.27	23.26		
5	QPSK	25	0	23.32	23.20	23.23		
5	16QAM	1	0	23.59	23.48	23.41		
5	16QAM	1	12	23.50	23.48	23.50		
5	16QAM	1	24	23.50	23.49	23.31		
5	16QAM	12	0	22.36	22.27	22.32	23	
5	16QAM	12	7	22.32	22.32	22.32		
5	16QAM	12	13	22.33	22.32	22.30		
5	16QAM	25	0	22.41	22.25	22.24		
5	64QAM	1	0	22.38	22.30	22.30	23	
5	64QAM	1	12	22.46	22.38	22.43		
5	64QAM	1	24	22.39	22.38	21.82		
5	64QAM	12	0	21.38	21.32	21.40	22	
5	64QAM	12	7	21.38	21.23	21.32		
5	64QAM	12	13	21.40	21.42	21.41		
5	64QAM	25	0	21.38	21.27	21.38		
Channel				26765	26665	27025		
Frequency (MHz)				816.5	831.5	847.5	limit	
3	QPSK	1	0	24.25	24.11	24.12	25	
3	QPSK	1	8	24.10	24.13	24.07		
3	QPSK	1	14	24.18	24.21	24.02		
3	QPSK	8	0	23.38	23.26	23.35	24	
3	QPSK	8	4	23.32	23.21	23.31		
3	QPSK	8	7	23.32	23.25	23.25		
3	QPSK	15	0	23.32	23.30	23.25		
3	16QAM	1	0	23.52	23.47	23.43		
3	16QAM	1	8	23.45	23.44	23.48		
3	16QAM	1	14	23.48	23.41	23.31		
3	16QAM	8	0	22.33	22.35	22.28	23	
3	16QAM	8	4	22.32	22.32	22.33		
3	16QAM	8	7	22.38	22.31	22.25		
3	16QAM	15	0	22.39	22.28	22.33		
3	64QAM	1	0	22.37	22.27	22.37	23	
3	64QAM	1	8	22.37	22.32	22.38		
3	64QAM	1	14	22.41	22.39	21.87		
3	64QAM	8	0	21.40	21.39	21.38	22	
3	64QAM	8	4	21.41	21.29	21.39		
3	64QAM	8	7	21.34	21.38	21.38		
3	64QAM	15	0	21.33	21.26	21.25		
Channel				26697	26665	27033		
Frequency (MHz)				814.7	831.5	848.3	limit	
1.4	QPSK	1	0	24.25	24.12	24.11	25	
1.4	QPSK	1	3	24.18	24.16	24.12		
1.4	QPSK	1	5	24.16	24.21	24.01		
1.4	QPSK	3	0	24.16	24.08	24.08		
1.4	QPSK	3	1	24.14	24.10	24.02		
1.4	QPSK	3	3	24.11	24.20	24.00		
1.4	QPSK	6	0	23.38	23.20	23.30	24	
1.4	16QAM	1	0	23.59	23.42	23.40		
1.4	16QAM	1	3	23.44	23.46	23.51		
1.4	16QAM	1	5	23.45	23.49	23.37	24	
1.4	16QAM	3	0	23.49	23.35	23.38		
1.4	16QAM	3	1	23.41	23.39	23.44		
1.4	16QAM	3	3	23.42	23.47	23.31		
1.4	16QAM	6	0	22.40	22.31	22.27		
1.4	64QAM	1	0	22.39	22.31	22.34	23	
1.4	64QAM	1	3	22.44	22.37	22.42		
1.4	64QAM	1	5	22.41	22.31	21.82		
1.4	64QAM	3	0	22.37	22.25	22.28	23	
1.4	64QAM	3	1	22.39	22.34	22.35		
1.4	64QAM	3	3	22.40	22.29	21.82		
1.4	64QAM	6	0	21.39	21.32	21.24		



Band 30							
Arif 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				27710			
Frequency (MHz)				2310			
10	QPSK	1	0	24.61			25
10	QPSK	1	25	24.65			
10	QPSK	1	49	24.62			
10	QPSK	25	0	23.62			24
10	QPSK	25	12	23.68			
10	QPSK	25	25	23.71			
10	QPSK	50	0	23.89			
10	16QAM	1	0	23.99			24
10	16QAM	1	25	23.93			
10	16QAM	1	49	23.96			
10	16QAM	25	0	22.84			23
10	16QAM	25	12	22.71			
10	16QAM	25	25	22.70			
10	16QAM	50	0	22.70			
10	64QAM	1	0	22.82			23
10	64QAM	1	25	22.90			
10	64QAM	1	49	22.83			
10	64QAM	25	0	21.89			22
10	64QAM	25	12	21.71			
10	64QAM	25	25	21.75			
10	64QAM	50	0	21.70			
Channel				27885	27710	27735	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	24.53	24.51	24.55	25
5	QPSK	1	12	24.60	24.59	24.63	
5	QPSK	1	24	24.54	24.56	24.60	
5	QPSK	12	0	23.60	23.61	23.57	24
5	QPSK	12	7	23.62	23.64	23.59	
5	QPSK	12	13	23.68	23.63	23.64	
5	QPSK	25	0	23.82	23.84	23.83	
5	16QAM	1	0	23.93	23.96	23.93	24
5	16QAM	1	12	23.93	23.88	23.88	
5	16QAM	1	24	23.93	23.89	23.92	
5	16QAM	12	0	22.54	22.59	22.60	23
5	16QAM	12	7	22.68	22.65	22.71	
5	16QAM	12	13	22.65	22.64	22.67	
5	16QAM	25	0	22.63	22.67	22.62	
5	64QAM	1	0	22.81	22.75	22.78	23
5	64QAM	1	12	22.81	22.86	22.82	
5	64QAM	1	24	22.80	22.77	22.80	
5	64QAM	12	0	21.65	21.63	21.60	22
5	64QAM	12	7	21.64	21.63	21.63	
5	64QAM	12	13	21.69	21.73	21.68	
5	64QAM	25	0	21.70	21.65	21.63	



Band 71									
Art 1									
Bandwidth [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)		
Channel				13322	13322	13322	Tune-up limit (dBm)		
Frequency (MHz)				675	683	688	Tune-up limit (dBm)		
20	QPSK	1	0	24.40	24.34	24.28	25		
20	QPSK	1	49	24.30	24.32	24.31	25		
20	QPSK	1	99	24.30	24.30	24.26	25		
20	QPSK	50	0	23.45	23.52	23.39	24		
20	QPSK	50	24	23.42	23.42	23.46	24		
20	QPSK	50	50	23.50	23.51	23.50	24		
20	QPSK	100	0	23.48	23.44	23.48	24		
20	16QAM	1	0	23.72	23.62	23.64	24		
20	16QAM	1	49	23.65	23.69	23.65	24		
20	16QAM	1	99	23.65	23.69	23.62	24		
20	16QAM	50	0	22.47	22.42	22.46	23		
20	16QAM	50	24	22.52	22.45	22.42	23		
20	16QAM	50	50	22.51	22.53	22.49	23		
20	16QAM	100	0	22.46	22.42	22.47	23		
20	64QAM	1	0	22.60	22.50	22.48	23		
20	64QAM	1	49	22.50	22.55	22.52	23		
20	64QAM	1	99	22.57	22.59	22.50	23		
20	64QAM	50	0	21.49	21.40	21.41	22		
20	64QAM	50	24	21.52	21.47	21.46	22		
20	64QAM	50	50	21.49	21.53	21.52	22		
20	64QAM	100	0	21.53	21.41	21.49	22		
Channel				133197	133207	133197	Tune-up limit (dBm)		
Frequency (MHz)				670.5	680.5	690.5	Tune-up limit (dBm)		
15	QPSK	1	0	24.33	24.29	24.18	25		
15	QPSK	1	37	24.27	24.24	24.25	25		
15	QPSK	1	74	24.24	24.34	24.17	25		
15	QPSK	38	0	23.39	23.37	23.31	24		
15	QPSK	38	23	23.62	23.38	23.42	24		
15	QPSK	38	39	23.49	23.51	23.47	24		
15	QPSK	75	0	23.48	23.36	23.41	24		
15	16QAM	1	0	23.89	23.58	23.59	24		
15	16QAM	1	37	23.59	23.66	23.58	24		
15	16QAM	1	74	23.65	23.66	23.53	24		
15	16QAM	38	0	22.43	22.37	22.36	23		
15	16QAM	38	20	22.45	22.36	22.35	23		
15	16QAM	38	39	22.50	22.43	22.47	23		
15	16QAM	75	0	22.38	22.42	22.39	23		
15	64QAM	1	0	22.50	22.43	22.36	23		
15	64QAM	1	37	22.46	22.45	22.49	23		
15	64QAM	1	74	22.53	22.50	22.43	23		
15	64QAM	38	0	21.47	21.37	21.37	22		
15	64QAM	38	20	21.47	21.40	21.38	22		
15	64QAM	38	39	21.41	21.48	21.43	22		
15	64QAM	75	0	21.46	21.32	21.46	22		
Channel				133172	133272	133422	Tune-up limit (dBm)		
Frequency (MHz)				666	678	693	Tune-up limit (dBm)		
10	QPSK	1	0	24.35	24.30	24.18	25		
10	QPSK	1	25	24.27	24.27	24.23	25		
10	QPSK	1	49	24.20	24.25	24.24	25		
10	QPSK	25	0	23.45	23.42	23.32	24		
10	QPSK	25	12	23.62	23.32	23.37	24		
10	QPSK	25	25	23.42	23.47	23.44	24		
10	QPSK	50	0	23.46	23.36	23.43	24		
10	16QAM	1	0	23.64	23.60	23.60	24		
10	16QAM	1	25	23.63	23.63	23.57	24		
10	16QAM	1	49	23.67	23.62	23.52	24		
10	16QAM	25	0	22.43	22.36	22.37	23		
10	16QAM	25	12	22.49	22.36	22.32	23		
10	16QAM	25	25	22.46	22.52	22.43	23		
10	16QAM	50	0	22.36	22.41	22.43	23		
10	64QAM	1	0	22.55	22.43	22.46	23		
10	64QAM	1	25	22.43	22.47	22.52	23		
10	64QAM	1	49	22.50	22.54	22.42	23		
10	64QAM	25	0	21.43	21.37	21.35	22		
10	64QAM	25	12	21.46	21.37	21.37	22		
10	64QAM	25	25	21.44	21.52	21.50	22		
10	64QAM	50	0	21.47	21.32	21.46	22		
Channel				133147	133247	133417	Tune-up limit (dBm)		
Frequency (MHz)				665.5	675.5	695.5	Tune-up limit (dBm)		
5	QPSK	1	0	24.32	24.25	24.23	25		
5	QPSK	1	12	24.23	24.28	24.28	25		
5	QPSK	1	24	24.22	24.24	24.18	25		
5	QPSK	12	0	23.43	23.37	23.36	24		
5	QPSK	12	7	23.48	23.36	23.36	24		
5	QPSK	12	13	23.50	23.45	23.42	24		
5	QPSK	25	0	23.47	23.39	23.43	24		
5	16QAM	1	0	23.65	23.62	23.61	24		
5	16QAM	1	12	23.59	23.66	23.64	24		
5	16QAM	1	24	23.59	23.67	23.53	24		
5	16QAM	12	0	22.38	22.42	22.38	23		
5	16QAM	12	7	22.42	22.39	22.34	23		
5	16QAM	12	13	22.46	22.48	22.45	23		
5	16QAM	25	0	22.42	22.34	22.37	23		
5	64QAM	1	0	22.51	22.45	22.46	23		
5	64QAM	1	12	22.50	22.52	22.43	23		
5	64QAM	1	24	22.47	22.57	22.46	23		
5	64QAM	12	0	21.48	21.36	21.40	22		
5	64QAM	12	7	21.44	21.41	21.45	22		
5	64QAM	12	13	21.46	21.51	21.42	22		
5	64QAM	25	0	21.43	21.36	21.41	22		



Band 38							
Art 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.16	24.19	24.23	25
20	QPSK	1	49	24.23	24.26	24.27	
20	QPSK	1	99	24.23	24.31	24.30	
20	QPSK	50	0	23.28	23.33	23.38	24
20	QPSK	50	24	23.36	23.35	23.34	
20	QPSK	50	50	23.41	23.41	23.44	
20	QPSK	100	0	23.36	23.36	23.35	24
20	16QAM	1	0	23.29	23.31	23.31	
20	16QAM	1	49	23.29	23.33	23.36	
20	16QAM	1	99	23.36	23.42	23.38	23
20	16QAM	50	0	22.32	22.36	22.37	
20	16QAM	50	24	22.40	22.37	22.36	
20	16QAM	50	50	22.42	22.46	22.44	23
20	16QAM	100	0	22.40	22.38	22.36	
20	64QAM	1	0	21.97	21.97	22.02	
20	64QAM	1	49	22.01	22.06	22.08	23
20	64QAM	1	99	22.10	22.13	22.08	
20	64QAM	50	0	21.33	21.38	21.37	
20	64QAM	50	24	21.39	21.39	21.40	22
20	64QAM	50	50	21.43	21.45	21.45	
20	64QAM	100	0	21.41	21.37	21.38	
Channel				37825	38000	38175	
Frequency (MHz)				25775	2595	2612.5	
15	QPSK	1	0	24.14	24.12	24.18	25
15	QPSK	1	37	24.17	24.26	24.27	
15	QPSK	1	74	24.14	24.30	24.30	
15	QPSK	36	0	23.22	23.25	23.31	24
15	QPSK	36	20	23.32	23.28	23.31	
15	QPSK	36	39	23.36	23.31	23.37	
15	QPSK	75	0	23.36	23.32	23.25	24
15	16QAM	1	0	23.22	23.31	23.24	
15	16QAM	1	37	23.24	23.31	23.30	
15	16QAM	1	74	23.28	23.42	23.35	23
15	16QAM	36	0	22.22	22.29	22.35	
15	16QAM	36	20	22.34	22.29	22.32	
15	16QAM	36	39	22.35	22.39	22.36	23
15	16QAM	75	0	22.38	22.32	22.32	
15	64QAM	1	0	21.97	21.97	22.02	
15	64QAM	1	37	21.96	22.03	22.06	23
15	64QAM	1	74	22.00	22.08	21.96	
15	64QAM	36	0	21.23	21.37	21.35	
15	64QAM	36	20	21.38	21.31	21.37	22
15	64QAM	36	39	21.37	21.40	21.37	
15	64QAM	75	0	21.41	21.32	21.30	
Channel				37600	38000	38200	
Frequency (MHz)				25760	2595	2615	
10	QPSK	1	0	24.07	24.17	24.19	25
10	QPSK	1	25	24.21	24.26	24.18	
10	QPSK	1	49	24.14	24.28	24.26	
10	QPSK	25	0	23.22	23.27	23.36	24
10	QPSK	25	12	23.33	23.30	23.24	
10	QPSK	25	25	23.38	23.39	23.36	
10	QPSK	50	0	23.35	23.36	23.26	24
10	16QAM	1	0	23.22	23.31	23.30	
10	16QAM	1	25	23.29	23.31	23.33	
10	16QAM	1	49	23.30	23.36	23.28	23
10	16QAM	25	0	22.30	22.30	22.28	
10	16QAM	25	12	22.30	22.35	22.32	
10	16QAM	25	25	22.34	22.43	22.38	23
10	16QAM	50	0	22.32	22.33	22.30	
10	64QAM	1	0	21.89	21.89	22.02	
10	64QAM	1	25	21.96	21.99	22.03	23
10	64QAM	1	49	22.03	22.06	22.00	
10	64QAM	25	0	21.33	21.34	21.28	
10	64QAM	25	12	21.33	21.37	21.31	22
10	64QAM	25	25	21.33	21.40	21.39	
10	64QAM	50	0	21.32	21.36	21.29	
Channel				37775	38000	38225	
Frequency (MHz)				25725	2595	2617.5	
5	QPSK	1	0	24.11	24.16	24.18	25
5	QPSK	1	12	24.22	24.20	24.19	
5	QPSK	1	24	24.14	24.29	24.28	
5	QPSK	12	0	23.23	23.30	23.33	24
5	QPSK	12	7	23.31	23.28	23.33	
5	QPSK	12	13	23.34	23.31	23.38	
5	QPSK	25	0	23.34	23.31	23.27	24
5	16QAM	1	0	23.24	23.31	23.25	
5	16QAM	1	12	23.23	23.31	23.29	
5	16QAM	1	24	23.33	23.42	23.38	23
5	16QAM	12	0	22.23	22.33	22.37	
5	16QAM	12	7	22.34	22.27	22.31	
5	16QAM	12	13	22.38	22.36	22.40	23
5	16QAM	25	0	22.38	22.28	22.27	
5	64QAM	1	0	21.90	21.92	21.93	
5	64QAM	1	12	21.92	22.03	22.01	23
5	64QAM	1	24	22.07	22.06	22.08	
5	64QAM	12	0	21.28	21.33	21.36	
5	64QAM	12	7	21.38	21.29	21.34	22
5	64QAM	12	13	21.34	21.36	21.40	
5	64QAM	25	0	21.37	21.32	21.35	



Band 38_HPUE							
Art 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	26.01	26.06	26.07	27.5
20	QPSK	1	49	26.06	26.10	26.10	
20	QPSK	1	99	26.11	26.14	25.99	
20	QPSK	50	0	25.27	25.13	24.99	26.5
20	QPSK	50	24	25.27	25.10	25.00	
20	QPSK	50	50	25.16	24.99	24.87	
20	QPSK	100	0	25.30	25.14	25.03	26.5
20	16QAM	1	0	25.40	25.45	25.48	
20	16QAM	1	49	25.48	25.49	25.47	
20	16QAM	1	99	25.47	25.48	25.32	26.5
20	16QAM	50	0	24.28	24.36	24.30	
20	16QAM	50	24	24.39	24.37	24.32	
20	16QAM	50	50	24.40	24.41	24.25	26.5
20	16QAM	100	0	24.36	24.25	24.11	
20	64QAM	1	0	23.79	23.74	23.65	
20	64QAM	1	49	23.62	23.60	23.62	26.5
20	64QAM	1	99	23.62	23.66	23.53	
20	64QAM	50	0	22.73	22.55	22.58	
20	64QAM	50	24	22.69	22.56	22.56	24.5
20	64QAM	50	50	22.58	22.52	22.61	
20	64QAM	100	0	22.53	22.56	22.68	
Channel				37825	38000	38175	
Frequency (MHz)				2377.5	2392	2412.5	
15	QPSK	1	0	25.95	26.03	25.97	27.5
15	QPSK	1	37	26.08	26.10	26.03	
15	QPSK	1	74	26.04	26.10	25.95	
15	QPSK	36	0	25.24	25.08	24.96	26.5
15	QPSK	36	20	25.18	25.10	24.95	
15	QPSK	36	39	25.08	24.89	24.85	
15	QPSK	75	0	25.27	25.04	24.99	26.5
15	16QAM	1	0	25.36	25.40	25.41	
15	16QAM	1	37	25.40	25.47	25.40	
15	16QAM	1	74	25.42	25.43	25.32	26.5
15	16QAM	36	0	24.25	24.28	24.24	
15	16QAM	36	20	24.37	24.36	24.32	
15	16QAM	36	39	24.36	24.34	24.24	26.5
15	16QAM	75	0	24.36	24.18	24.01	
15	64QAM	1	0	23.71	23.64	23.64	
15	64QAM	1	37	23.63	23.58	23.59	26.5
15	64QAM	1	74	23.62	23.62	23.55	
15	64QAM	36	0	22.70	22.54	22.60	
15	64QAM	36	20	22.61	22.58	22.62	24.5
15	64QAM	36	39	22.59	22.52	22.60	
15	64QAM	75	0	22.56	22.58	22.64	
Channel				37800	38000	38200	
Frequency (MHz)				2497.5	2502	2515	
10	QPSK	1	0	25.97	25.96	26.00	27.5
10	QPSK	1	25	26.98	26.05	26.05	
10	QPSK	1	49	26.08	26.08	25.92	
10	QPSK	25	0	25.27	25.05	24.93	26.5
10	QPSK	25	12	25.27	25.08	24.97	
10	QPSK	25	25	25.15	24.91	24.81	
10	QPSK	50	0	25.23	25.06	25.01	26.5
10	16QAM	1	0	25.31	25.38	25.42	
10	16QAM	1	25	25.38	25.48	25.45	
10	16QAM	1	49	25.39	25.39	25.31	26.5
10	16QAM	25	0	24.21	24.35	24.28	
10	16QAM	25	12	24.36	24.33	24.32	
10	16QAM	25	25	24.30	24.41	24.15	26.5
10	16QAM	50	0	24.34	24.24	24.04	
10	64QAM	1	0	23.74	23.70	23.59	
10	64QAM	1	25	23.54	23.57	23.60	26.5
10	64QAM	1	49	23.55	23.65	23.59	
10	64QAM	25	0	22.69	22.54	22.58	
10	64QAM	25	12	22.69	22.52	22.60	24.5
10	64QAM	25	25	22.58	22.52	22.57	
10	64QAM	50	0	22.58	22.52	22.68	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	26.00	26.01	26.07	27.5
5	QPSK	1	12	26.04	26.05	26.04	
5	QPSK	1	24	26.04	26.10	25.90	
5	QPSK	12	0	25.23	25.06	24.89	26.5
5	QPSK	12	7	25.20	25.05	24.95	
5	QPSK	12	13	25.15	24.89	24.83	
5	QPSK	25	0	25.25	25.07	25.02	26.5
5	16QAM	1	0	25.31	25.40	25.48	
5	16QAM	1	12	25.40	25.40	25.40	
5	16QAM	1	24	25.47	25.48	25.24	26.5
5	16QAM	12	0	24.27	24.35	24.28	
5	16QAM	12	7	24.34	24.34	24.25	
5	16QAM	12	13	24.34	24.35	24.21	26.5
5	16QAM	25	0	24.38	24.25	24.03	
5	64QAM	1	0	23.76	23.69	23.57	
5	64QAM	1	12	23.52	23.50	23.62	26.5
5	64QAM	1	24	23.63	23.61	23.59	
5	64QAM	12	0	22.70	22.54	22.55	
5	64QAM	12	7	22.65	22.51	22.53	24.5
5	64QAM	12	13	22.54	22.52	22.61	
5	64QAM	25	0	22.57	22.52	22.64	



Band 41_HPUE													
Ant 2													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)				
Channel				39750	40185	40620	41055	41490					
Frequency (MHz)				2506	2549.5	2593	2636.5	2680					
20	QPSK	1	0	26.15	26.03	25.68	25.73	25.68	27.5				
20	QPSK	1	49	26.14	25.98	25.68	25.98	25.79					
20	QPSK	1	99	26.13	25.97	25.55	25.52	25.72					
20	QPSK	50	0	25.40	25.24	24.88	25.10	24.84					
20	QPSK	50	24	25.35	25.19	24.80	25.08	24.98					
20	QPSK	50	50	25.30	25.15	24.53	24.93	25.00					
20	QPSK	100	0	25.25	25.19	24.99	24.97	24.93	26.5				
20	16QAM	1	0	25.66	25.34	24.84	25.11	24.72					
20	16QAM	1	49	25.54	25.35	25.01	25.31	25.15					
20	16QAM	1	99	25.48	25.34	24.63	24.85	25.03					
20	16QAM	50	0	24.43	24.26	24.05	24.12	23.89					
20	16QAM	50	24	24.37	24.22	24.02	24.10	24.05					
20	16QAM	50	50	24.37	24.19	23.92	23.97	24.02	25.5				
20	16QAM	100	0	23.88	24.19	23.79	24.03	23.96					
20	64QAM	1	0	23.66	23.98	23.66	23.91	23.58					
20	64QAM	1	49	23.89	24.05	23.52	24.19	23.80					
20	64QAM	1	99	24.02	24.14	23.53	23.64	23.51					
20	64QAM	50	0	22.62	22.93	22.84	23.11	22.89					
20	64QAM	50	24	22.98	23.00	22.85	23.10	22.88	24.5				
20	64QAM	50	50	22.99	23.05	22.73	23.00	22.60					
20	64QAM	100	0	22.80	22.81	22.73	23.03	22.70					
Channel				39725	40173	40620	41068	41515					
Frequency (MHz)				2503.5	2543.5	2593	2637.5	2682.5					
15	QPSK	1	0	26.14	25.98	25.64	25.63	25.63			27.5		
15	QPSK	1	37	26.06	25.88	25.67	25.88	25.76					
15	QPSK	1	74	26.08	25.95	25.50	25.59	25.67					
15	QPSK	36	0	25.38	25.14	24.81	25.07	24.76					
15	QPSK	36	20	25.35	25.19	24.75	25.08	24.91					
15	QPSK	36	39	25.25	25.06	24.56	24.89	24.97					
15	QPSK	75	0	25.23	25.16	24.56	24.93	24.90	26.5				
15	16QAM	1	0	25.46	25.25	24.81	25.01	24.68					
15	16QAM	1	37	25.62	25.28	24.94	25.29	25.15					
15	16QAM	1	74	25.44	25.33	24.61	24.76	24.96					
15	16QAM	36	0	24.38	24.26	23.99	24.06	23.88					
15	16QAM	36	20	24.30	24.12	23.99	24.00	23.97					
15	16QAM	36	39	24.37	24.16	23.85	23.91	23.85	25.5				
15	16QAM	75	0	23.86	24.18	23.76	23.83	23.93					
15	64QAM	1	0	23.67	23.98	23.58	23.81	23.59					
15	64QAM	1	37	23.87	23.95	23.57	24.19	23.74					
15	64QAM	1	74	23.95	24.14	23.54	23.80	23.57					
15	64QAM	36	0	22.74	22.83	22.79	23.03	22.86					
15	64QAM	36	20	22.92	22.97	22.80	23.00	22.67	24.5				
15	64QAM	36	39	22.99	23.05	22.64	23.00	22.50					
15	64QAM	75	0	22.77	22.76	22.72	22.96	22.62					
Channel				39700	40160	40620	41060	41540					
Frequency (MHz)				2501	2547	2593	2639	2685					
10	QPSK	1	0	26.05	26.02	25.56	25.73	25.63			27.5		
10	QPSK	1	25	26.05	25.89	25.67	25.95	25.76					
10	QPSK	1	49	26.11	25.90	25.54	25.57	25.72					
10	QPSK	25	0	25.31	25.16	24.88	25.06	24.77					
10	QPSK	25	12	25.30	25.17	24.78	25.06	24.86					
10	QPSK	25	25	25.26	25.11	24.56	24.84	24.99					
10	QPSK	50	0	25.21	25.11	24.51	24.87	24.92	26.5				
10	16QAM	1	0	25.54	25.24	24.84	25.10	24.63					
10	16QAM	1	25	25.49	25.33	24.91	25.26	25.14					
10	16QAM	1	49	25.42	25.29	24.56	24.79	24.99					
10	16QAM	25	0	24.38	24.24	23.97	24.12	23.84					
10	16QAM	25	12	24.28	24.22	23.94	24.06	23.97					
10	16QAM	25	25	24.27	24.18	23.88	23.89	23.97	25.5				
10	16QAM	50	0	23.87	24.09	23.69	24.00	23.88					
10	64QAM	1	0	23.61	23.94	23.57	23.86	23.59					
10	64QAM	1	25	23.61	23.95	23.56	24.16	23.76					
10	64QAM	1	49	23.92	24.05	23.52	23.83	23.54					
10	64QAM	25	0	22.74	22.89	22.84	23.05	22.86					
10	64QAM	25	12	22.96	22.92	22.73	23.02	22.84	24.5				
10	64QAM	25	25	22.94	22.98	22.69	22.91	22.58					
10	64QAM	50	0	22.76	22.80	22.65	23.00	22.61					
Channel				39675	40143	40620	41053	41535					
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5					
5	QPSK	1	0	26.10	26.93	25.57	25.65	25.59			27.5		
5	QPSK	1	12	26.13	25.90	25.64	25.98	25.71					
5	QPSK	1	24	26.09	25.67	25.55	25.50	25.62					
5	QPSK	12	0	25.33	25.14	24.80	25.10	24.80					
5	QPSK	12	7	25.26	25.16	24.72	24.58	24.93					
5	QPSK	12	13	25.26	25.15	24.51	24.90	25.00					
5	QPSK	25	0	25.25	25.19	24.54	24.94	24.87	26.5				
5	16QAM	1	0	25.46	25.28	24.84	25.11	24.71					
5	16QAM	1	12	25.44	25.29	24.94	25.23	25.07					
5	16QAM	1	24	25.39	25.25	24.63	24.75	24.96					
5	16QAM	12	0	24.42	24.23	24.00	24.12	23.86					
5	16QAM	12	7	24.31	24.13	24.02	24.05	24.02					
5	16QAM	12	13	24.35	24.09	23.83	23.89	23.95	25.5				
5	16QAM	25	0	23.82	24.13	23.71	24.00	23.95					
5	64QAM	1	0	23.66	23.97	23.62	23.83	23.51					
5	64QAM	1	12	23.98	23.96	23.52	24.17	23.78					
5	64QAM	1	24	23.93	24.09	23.54	23.60	23.51					
5	64QAM	12	0	22.77	22.85	22.74	23.07	22.80					
5	64QAM	12	7	22.99	22.98	22.72	23.07	22.83	24.5				
5	64QAM	12	13	22.99	23.05	22.68	22.94	22.51					
5	64QAM	25	0	22.74	22.78	22.67	23.02	22.68					



Band 42							
Art 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				43190	43340	43490	
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	24.84	24.68	24.76	25
20	QPSK	1	49	24.81	24.68	24.74	
20	QPSK	1	99	24.59	24.62	24.68	
20	QPSK	50	0	23.79	23.86	23.94	24
20	QPSK	50	24	23.87	23.84	23.88	
20	QPSK	50	50	23.79	23.86	23.90	
20	QPSK	100	0	23.84	23.83	23.87	24
20	16QAM	1	0	23.94	23.92	23.90	
20	16QAM	1	49	23.93	23.95	23.90	
20	16QAM	1	99	23.96	23.98	23.99	23
20	16QAM	50	0	22.85	22.87	22.97	
20	16QAM	50	24	22.89	22.85	22.92	
20	16QAM	50	50	22.83	22.89	22.91	23
20	16QAM	100	0	22.88	22.85	22.90	
20	64QAM	1	0	22.79	22.82	22.90	
20	64QAM	1	49	22.81	22.88	22.85	23
20	64QAM	1	99	22.81	22.86	22.76	
20	64QAM	50	0	21.84	21.90	21.85	
20	64QAM	50	24	21.89	21.89	21.93	22
20	64QAM	50	50	21.84	21.89	21.84	
20	64QAM	100	0	21.88	21.85	21.84	
Channel				43165	43340	43515	
Frequency (MHz)				3572.5	3575	3592.5	
15	QPSK	1	0	24.63	24.61	24.75	25
15	QPSK	1	37	24.80	24.66	24.67	
15	QPSK	1	74	24.56	24.53	24.61	
15	QPSK	36	0	23.77	23.78	23.92	24
15	QPSK	36	20	23.81	23.77	23.84	
15	QPSK	36	39	23.69	23.79	23.86	
15	QPSK	75	0	23.76	23.77	23.78	24
15	16QAM	1	0	23.93	23.99	23.99	
15	16QAM	1	37	23.97	23.95	23.97	
15	16QAM	1	74	23.86	23.88	23.97	23
15	16QAM	36	0	22.78	22.77	22.97	
15	16QAM	36	20	22.90	22.94	22.90	
15	16QAM	36	39	22.74	22.89	22.91	23
15	16QAM	75	0	22.86	22.76	22.83	
15	64QAM	1	0	22.75	22.72	22.83	
15	64QAM	1	37	22.80	22.78	22.85	23
15	64QAM	1	74	22.80	22.78	22.74	
15	64QAM	36	0	21.84	21.89	21.85	
15	64QAM	36	20	21.83	21.85	21.92	22
15	64QAM	36	39	21.81	21.82	21.82	
15	64QAM	75	0	21.84	21.78	21.75	
Channel				43140	43340	43540	
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	24.81	24.55	24.74	25
10	QPSK	1	25	24.58	24.56	24.68	
10	QPSK	1	49	24.59	24.52	24.61	
10	QPSK	25	0	23.74	23.79	23.88	24
10	QPSK	25	12	23.85	23.74	23.87	
10	QPSK	25	25	23.75	23.85	23.90	
10	QPSK	50	0	23.80	23.82	23.87	24
10	16QAM	1	0	23.94	23.96	23.96	
10	16QAM	1	25	23.90	23.96	23.90	
10	16QAM	1	49	23.92	23.88	23.98	23
10	16QAM	25	0	22.76	22.77	22.92	
10	16QAM	25	12	22.84	22.77	22.84	
10	16QAM	25	25	22.80	22.80	22.81	23
10	16QAM	50	0	22.85	22.77	22.87	
10	64QAM	1	0	22.79	22.81	22.90	
10	64QAM	1	25	22.71	22.85	22.79	23
10	64QAM	1	49	22.71	22.84	22.67	
10	64QAM	25	0	21.77	21.87	21.83	
10	64QAM	25	12	21.88	21.84	21.85	22
10	64QAM	25	25	21.74	21.80	21.81	
10	64QAM	50	0	21.88	21.80	21.76	
Channel				43115	43340	43565	
Frequency (MHz)				3552.5	3575	3597.5	
5	QPSK	1	0	24.63	24.60	24.62	25
5	QPSK	1	12	24.59	24.63	24.71	
5	QPSK	1	24	24.59	24.53	24.59	
5	QPSK	12	0	23.75	23.80	23.88	24
5	QPSK	12	7	23.86	23.80	23.87	
5	QPSK	12	13	23.72	23.86	23.86	
5	QPSK	25	0	23.82	23.82	23.86	24
5	16QAM	1	0	23.93	23.94	23.95	
5	16QAM	1	12	23.84	23.93	23.91	
5	16QAM	1	24	23.91	23.91	23.97	23
5	16QAM	12	0	22.79	22.86	22.94	
5	16QAM	12	7	22.80	22.81	22.82	
5	16QAM	12	13	22.77	22.89	22.81	23
5	16QAM	25	0	22.86	22.81	22.87	
5	64QAM	1	0	22.79	22.73	22.89	
5	64QAM	1	12	22.73	22.80	22.78	23
5	64QAM	1	24	22.76	22.79	22.70	
5	64QAM	12	0	21.84	21.88	21.85	
5	64QAM	12	7	21.82	21.89	21.93	22
5	64QAM	12	13	21.83	21.81	21.84	
5	64QAM	25	0	21.84	21.78	21.78	



Band 38							
Art 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				37850	38000	38150	
Frequency (MHz)				2530	2595	2610	
20	QPSK	1	0	24.83	24.94	24.88	25
20	QPSK	1	49	24.98	24.91	24.93	
20	QPSK	1	99	24.94	24.97	24.96	
20	QPSK	50	0	23.94	23.99	23.99	24
20	QPSK	50	24	23.99	23.92	23.92	
20	QPSK	50	50	23.88	23.84	23.82	
20	QPSK	100	0	23.89	23.88	23.82	24
20	16QAM	1	0	23.83	23.86	23.86	
20	16QAM	1	49	23.86	23.87	23.80	
20	16QAM	1	99	23.82	23.83	23.83	23
20	16QAM	50	0	22.86	22.81	22.81	
20	16QAM	50	24	22.89	22.86	22.83	
20	16QAM	50	50	22.80	22.86	22.80	23
20	16QAM	100	0	22.88	22.83	22.82	
20	64QAM	1	0	22.80	22.81	22.81	
20	64QAM	1	49	22.79	22.81	22.83	23
20	64QAM	1	99	22.85	22.80	22.79	
20	64QAM	50	0	21.89	21.80	21.91	
20	64QAM	50	24	21.90	21.78	21.84	22
20	64QAM	50	50	21.81	21.88	21.85	
20	64QAM	100	0	21.89	21.84	21.82	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)
15	QPSK	1	0	24.91	24.94	24.97	25
15	QPSK	1	37	24.90	24.82	24.91	
15	QPSK	1	74	24.91	24.87	24.96	
15	QPSK	36	0	23.84	23.97	23.92	24
15	QPSK	36	20	23.96	23.87	23.83	
15	QPSK	36	39	23.79	23.80	23.72	
15	QPSK	75	0	23.81	23.87	23.76	24
15	16QAM	1	0	23.74	23.83	23.81	
15	16QAM	1	37	23.86	23.81	23.71	
15	16QAM	1	74	23.72	23.73	23.77	23
15	16QAM	36	0	22.85	22.77	22.80	
15	16QAM	36	20	22.81	22.86	22.75	
15	16QAM	36	39	22.75	22.85	22.76	23
15	16QAM	75	0	22.86	22.74	22.79	
15	64QAM	1	0	22.71	22.80	22.73	
15	64QAM	1	37	22.71	22.79	22.79	23
15	64QAM	1	74	22.85	22.70	22.75	
15	64QAM	36	0	21.80	21.78	21.89	
15	64QAM	36	20	21.87	21.70	21.80	22
15	64QAM	36	39	21.77	21.82	21.83	
15	64QAM	75	0	21.89	21.84	21.79	
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	Tune-up limit (dBm)
10	QPSK	1	0	24.92	24.89	24.91	25
10	QPSK	1	25	24.90	24.90	24.83	
10	QPSK	1	49	24.91	24.97	24.87	
10	QPSK	25	0	23.90	23.97	23.99	24
10	QPSK	25	12	23.95	23.89	23.89	
10	QPSK	25	25	23.84	23.77	23.72	
10	QPSK	50	0	23.82	23.82	23.74	24
10	16QAM	1	0	23.74	23.76	23.84	
10	16QAM	1	25	23.77	23.84	23.70	
10	16QAM	1	49	23.75	23.78	23.82	23
10	16QAM	25	0	22.84	22.71	22.80	
10	16QAM	25	12	22.87	22.81	22.82	
10	16QAM	25	25	22.70	22.77	22.75	23
10	16QAM	50	0	22.86	22.75	22.74	
10	64QAM	1	0	22.80	22.74	22.74	
10	64QAM	1	25	22.72	22.71	22.75	23
10	64QAM	1	49	22.77	22.75	22.73	
10	64QAM	25	0	21.81	21.75	21.89	
10	64QAM	25	12	21.83	21.73	21.77	22
10	64QAM	25	25	21.79	21.79	21.83	
10	64QAM	50	0	21.80	21.79	21.75	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)
5	QPSK	1	0	24.86	24.92	24.94	25
5	QPSK	1	12	24.96	24.90	24.92	
5	QPSK	1	24	24.94	24.84	24.95	
5	QPSK	12	0	23.86	23.97	23.93	24
5	QPSK	12	7	23.91	23.82	23.83	
5	QPSK	12	13	23.88	23.82	23.81	
5	QPSK	25	0	23.79	23.82	23.72	24
5	16QAM	1	0	23.74	23.76	23.86	
5	16QAM	1	12	23.79	23.83	23.76	
5	16QAM	1	24	23.72	23.80	23.79	23
5	16QAM	12	0	22.82	22.73	22.79	
5	16QAM	12	7	22.86	22.82	22.73	
5	16QAM	12	13	22.77	22.83	22.79	23
5	16QAM	25	0	22.84	22.78	22.79	
5	64QAM	1	0	22.77	22.77	22.79	
5	64QAM	1	12	22.74	22.71	22.76	23
5	64QAM	1	24	22.82	22.70	22.73	
5	64QAM	12	0	21.88	21.71	21.87	
5	64QAM	12	7	21.88	21.71	21.84	22
5	64QAM	12	13	21.80	21.83	21.80	
5	64QAM	25	0	21.84	21.77	21.72	



Band 38_HPUE							
Airt 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				37850	38000	38150	
Frequency (MHz)				2500	2595	2610	
20	QPSK	1	0	26.87	26.91	26.95	27.5
20	QPSK	1	49	26.82	26.98	26.98	
20	QPSK	1	99	26.60	27.01	27.00	
20	QPSK	50	0	25.73	25.88	26.11	26.5
20	QPSK	50	24	25.81	25.94	26.26	
20	QPSK	50	50	25.74	25.89	26.00	
20	QPSK	100	0	25.84	25.91	26.07	26.5
20	16QAM	1	0	26.20	26.33	26.32	
20	16QAM	1	49	25.96	26.26	26.32	
20	16QAM	1	99	25.96	26.37	26.34	25.5
20	16QAM	50	0	24.94	25.08	25.29	
20	16QAM	50	24	24.97	25.22	25.32	
20	16QAM	50	50	25.07	25.23	25.34	25.5
20	16QAM	100	0	24.92	25.04	25.16	
20	64QAM	1	0	24.31	24.38	24.44	
20	64QAM	1	49	24.04	24.31	24.74	25.5
20	64QAM	99	0	24.04	24.55	24.68	
20	64QAM	50	0	23.16	23.14	23.43	
20	64QAM	50	24	23.14	23.29	23.50	24.5
20	64QAM	50	50	23.13	23.34	23.43	
20	64QAM	100	0	23.10	23.14	23.24	
Channel				37825	38000	38175	
Frequency (MHz)				2677.4	2695	2674.5	
15	QPSK	1	0	26.82	26.82	26.94	27.5
15	QPSK	1	37	26.58	26.91	26.95	
15	QPSK	1	74	26.58	26.99	26.98	
15	QPSK	36	0	25.63	25.85	26.01	26.5
15	QPSK	36	20	25.81	25.86	26.19	
15	QPSK	36	39	25.85	25.83	25.94	
15	QPSK	75	0	25.82	25.82	26.01	26.5
15	16QAM	1	0	26.11	26.23	26.28	
15	16QAM	1	37	25.93	26.20	26.22	
15	16QAM	1	74	25.90	26.27	26.33	25.5
15	16QAM	36	0	24.96	25.06	25.27	
15	16QAM	36	20	24.90	25.13	25.27	
15	16QAM	36	39	24.97	25.15	25.29	25.5
15	16QAM	75	0	24.85	24.96	25.13	
15	64QAM	1	0	24.30	24.33	24.38	
15	64QAM	1	37	23.99	24.25	24.74	25.5
15	64QAM	1	74	24.04	24.55	24.68	
15	64QAM	36	0	23.12	23.11	23.43	
15	64QAM	36	20	23.05	23.21	23.44	24.5
15	64QAM	36	39	23.08	23.29	23.38	
15	64QAM	75	0	23.05	23.12	23.16	
Channel				37800	38000	38200	
Frequency (MHz)				2675	2695	2615	
10	QPSK	1	0	26.80	26.89	26.94	27.5
10	QPSK	1	25	26.58	26.90	26.93	
10	QPSK	1	49	26.52	27.00	26.98	
10	QPSK	25	0	25.68	25.80	26.06	26.5
10	QPSK	25	12	25.78	25.85	26.19	
10	QPSK	25	25	25.73	25.89	25.91	
10	QPSK	50	0	25.74	25.87	25.99	26.5
10	16QAM	1	0	26.13	26.30	26.25	
10	16QAM	1	25	25.86	26.19	26.23	
10	16QAM	1	49	25.90	26.32	26.31	25.5
10	16QAM	25	0	24.90	25.07	25.22	
10	16QAM	25	12	24.92	25.17	25.22	
10	16QAM	25	25	25.04	25.14	25.34	25.5
10	16QAM	50	0	24.91	24.96	25.15	
10	64QAM	1	0	24.24	24.37	24.36	
10	64QAM	1	25	23.97	24.24	24.64	25.5
10	64QAM	1	49	24.04	24.53	24.65	
10	64QAM	25	0	23.07	23.12	23.33	
10	64QAM	25	12	23.05	23.19	23.43	24.5
10	64QAM	25	25	23.12	23.31	23.35	
10	64QAM	50	0	23.10	23.10	23.24	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	26.80	26.90	26.94	27.5
5	QPSK	1	12	26.59	26.97	26.91	
5	QPSK	1	24	26.53	26.96	26.91	
5	QPSK	12	0	25.64	25.85	26.04	26.5
5	QPSK	12	7	25.77	25.90	26.20	
5	QPSK	12	13	25.71	25.88	26.00	
5	QPSK	25	0	25.78	25.83	26.04	26.5
5	16QAM	1	0	26.17	26.32	26.31	
5	16QAM	1	12	25.96	26.21	26.27	
5	16QAM	1	24	25.93	26.32	26.28	25.5
5	16QAM	12	0	24.84	25.07	25.19	
5	16QAM	12	7	24.92	25.22	25.31	
5	16QAM	12	13	24.99	25.13	25.34	25.5
5	16QAM	25	0	24.82	24.99	25.12	
5	64QAM	1	0	24.28	24.33	24.43	
5	64QAM	1	12	23.96	24.26	24.67	25.5
5	64QAM	1	24	23.95	24.49	24.64	
5	64QAM	12	0	23.06	23.09	23.41	
5	64QAM	12	7	23.10	23.22	23.41	24.5
5	64QAM	12	13	23.11	23.25	23.42	
5	64QAM	25	0	23.03	23.05	23.20	



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Band 41										
Airt 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Channel	Tune-up limit (dBm)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
20	QPSK	1	0	24.63	24.82	24.91	24.99	24.45		25
20	QPSK	1	49	24.67	24.87	24.94	24.95	24.81		
20	QPSK	1	99	24.73	24.95	24.96	24.75	24.68		
20	QPSK	50	0	23.81	23.99	23.90	23.98	23.79		
20	QPSK	50	24	23.83	23.93	23.93	23.94	23.92		24
20	QPSK	50	50	23.84	23.90	23.94	23.94	23.81		
20	QPSK	100	0	23.84	23.95	23.91	23.97	23.95		
20	16QAM	1	0	23.73	23.94	23.99	24.00	23.55		24
20	16QAM	1	49	23.73	23.98	23.91	23.99	23.88		
20	16QAM	1	99	23.84	23.93	23.92	23.86	23.75		
20	16QAM	50	0	22.81	22.83	22.82	22.80	22.81		
20	16QAM	50	24	22.87	22.86	22.83	22.87	22.86		23
20	16QAM	50	50	22.88	22.88	22.87	22.89	22.85		
20	16QAM	100	0	22.84	22.85	22.84	22.89	22.87		
20	64QAM	1	0	22.50	22.67	22.78	22.77	22.25		23
20	64QAM	1	49	22.44	22.70	22.71	22.88	22.62		
20	64QAM	1	99	22.58	22.77	22.73	22.54	22.41		
20	64QAM	50	0	21.81	21.94	21.85	21.81	21.81		22
20	64QAM	50	24	21.88	21.91	21.86	21.80	21.98		
20	64QAM	50	50	21.86	21.91	21.86	21.89	21.87		
20	64QAM	100	0	21.87	21.98	21.84	21.81	21.86		
Channel										
Frequency (MHz)				2593.5	2613	2652	2691.5	2693.5		Tune-up limit (dBm)
15	QPSK	1	0	24.59	24.78	24.84	24.84	24.40		25
15	QPSK	1	37	24.57	24.78	24.88	24.85	24.75		
15	QPSK	1	74	24.72	24.95	24.94	24.71	24.65		
15	QPSK	36	0	23.81	23.91	23.83	23.98	23.75		24
15	QPSK	36	20	23.76	23.89	23.85	23.91	23.89		
15	QPSK	36	39	23.79	23.80	23.84	23.87	23.71		
15	QPSK	75	0	23.81	23.88	23.88	23.94	23.82		
15	16QAM	1	0	23.71	23.84	23.90	23.94	23.47		24
15	16QAM	1	37	23.71	23.97	23.86	23.99	23.83		
15	16QAM	1	74	23.82	23.89	23.89	23.83	23.65		
15	16QAM	36	0	22.74	22.81	22.77	22.70	22.80		23
15	16QAM	36	20	22.84	22.84	22.75	22.86	22.87		
15	16QAM	36	39	22.79	22.85	22.77	22.82	22.84		
15	16QAM	75	0	22.75	22.83	22.82	22.85	22.82		
15	64QAM	1	0	22.40	22.59	22.78	22.77	22.16		23
15	64QAM	1	37	22.42	22.61	22.63	22.62	22.53		
15	64QAM	1	74	22.48	22.77	22.69	22.61	22.39		
15	64QAM	36	0	21.77	21.91	21.78	21.78	21.80		22
15	64QAM	36	20	21.85	21.85	21.82	21.73	21.95		
15	64QAM	36	39	21.80	21.91	21.81	21.84	21.80		
15	64QAM	75	0	21.81	21.88	21.75	21.78	21.84		
Channel										
Frequency (MHz)				39700	40130	40590	41050	41490		Tune-up limit (dBm)
10	QPSK	1	0	24.59	24.72	24.82	24.82	24.45		25
10	QPSK	1	25	24.60	24.81	24.85	24.93	24.80		
10	QPSK	1	49	24.67	24.90	24.92	24.68	24.58		
10	QPSK	25	0	23.74	23.97	23.84	23.89	23.75		24
10	QPSK	25	12	23.81	23.87	23.85	23.88	23.83		
10	QPSK	25	25	23.80	23.88	23.89	23.85	23.78		
10	QPSK	50	0	23.76	23.95	23.81	23.96	23.77		
10	16QAM	1	0	23.71	23.87	23.96	23.97	23.51		24
10	16QAM	1	25	23.84	23.93	23.82	23.95	23.86		
10	16QAM	1	49	23.81	23.91	23.86	23.84	23.75		
10	16QAM	25	0	22.76	22.75	22.75	22.76	22.80		23
10	16QAM	25	12	22.79	22.81	22.82	22.79	22.93		
10	16QAM	25	25	22.85	22.87	22.85	22.81	22.82		
10	16QAM	50	0	22.77	22.81	22.77	22.80	22.82		
10	64QAM	1	0	22.44	22.63	22.75	22.76	22.21		23
10	64QAM	1	25	22.40	22.68	22.64	22.66	22.54		
10	64QAM	1	49	22.51	22.70	22.63	22.50	22.31		
10	64QAM	25	0	21.75	21.87	21.78	21.77	21.79		22
10	64QAM	25	12	21.82	21.90	21.79	21.78	21.98		
10	64QAM	25	25	21.80	21.83	21.80	21.81	21.86		
10	64QAM	50	0	21.79	21.98	21.83	21.79	21.78		
Channel										
Frequency (MHz)				2198.5	2545.8	2993	2940.30	2987.5		Tune-up limit (dBm)
5	QPSK	1	0	24.61	24.80	24.90	24.84	24.38		25
5	QPSK	1	12	24.60	24.85	24.87	24.89	24.79		
5	QPSK	1	24	24.71	24.94	24.96	24.71	24.65		
5	QPSK	12	0	23.77	23.92	23.85	23.87	23.74		24
5	QPSK	12	7	23.80	23.93	23.90	23.87	23.82		
5	QPSK	12	13	23.81	23.84	23.93	23.87	23.71		
5	QPSK	25	0	23.82	23.91	23.81	23.90	23.79		
5	16QAM	1	0	23.73	23.92	23.93	23.95	23.47		24
5	16QAM	1	12	23.73	23.96	23.85	23.97	23.84		
5	16QAM	1	24	23.82	23.91	23.86	23.82	23.71		
5	16QAM	12	0	22.71	22.78	22.75	22.72	22.73		23
5	16QAM	12	7	22.87	22.78	22.81	22.83	22.94		
5	16QAM	12	13	22.88	22.83	22.79	22.79	22.84		
5	16QAM	25	0	22.78	22.81	22.74	22.85	22.89		
5	64QAM	1	0	22.41	22.87	22.75	22.73	22.17		23
5	64QAM	1	12	22.41	22.85	22.69	22.85	22.54		
5	64QAM	1	24	22.48	22.76	22.72	22.45	22.40		
5	64QAM	12	0	21.75	21.89	21.81	21.75	21.80		22
5	64QAM	12	7	21.88	21.87	21.77	21.74	21.98		
5	64QAM	12	13	21.76	21.86	21.77	21.84	21.84		
5	64QAM	25	0	21.87	21.96	21.80	21.77	21.78		



Band 42							
Art 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				43190	43340	43490	
Frequency (MHz)				3550	3575	3590	
20	QPSK	1	0	22.94	23.03	23.03	23.5
20	QPSK	1	49	22.98	23.01	23.06	
20	QPSK	1	99	22.89	22.94	22.97	
20	QPSK	50	0	22.03	22.08	22.12	22.5
20	QPSK	50	24	22.08	22.04	22.08	
20	QPSK	50	50	22.03	22.05	22.08	
20	QPSK	100	0	22.07	22.02	22.07	22.5
20	16QAM	1	0	22.09	22.11	22.17	
20	16QAM	1	49	22.04	22.08	22.12	
20	16QAM	1	99	22.00	22.04	22.07	21.5
20	16QAM	50	0	21.04	21.09	21.14	
20	16QAM	50	24	21.10	21.07	21.10	
20	16QAM	50	50	21.04	21.05	21.10	21.5
20	16QAM	100	0	21.07	21.03	21.09	
20	64QAM	1	0	20.70	20.81	20.75	
20	64QAM	1	49	20.75	20.84	20.66	21.5
20	64QAM	1	99	20.79	20.79	20.58	
20	64QAM	50	0	20.06	20.11	20.02	
20	64QAM	50	24	20.11	20.08	20.06	20.5
20	64QAM	50	50	20.05	20.08	19.95	
20	64QAM	100	0	20.09	20.03	19.94	
Channel				43195	43340	43515	
Frequency (MHz)				3575	3575	3597.5	
15	QPSK	1	0	22.85	22.94	22.94	23.5
15	QPSK	1	37	22.96	22.95	22.96	
15	QPSK	1	74	22.89	22.86	22.87	
15	QPSK	36	0	21.99	21.99	22.10	22.5
15	QPSK	36	20	21.98	21.97	22.04	
15	QPSK	36	39	22.00	22.04	22.05	
15	QPSK	75	0	22.01	22.00	21.98	22.5
15	16QAM	1	0	22.04	22.09	22.13	
15	16QAM	1	37	21.95	22.05	22.11	
15	16QAM	1	74	21.94	21.99	22.01	21.5
15	16QAM	36	0	20.99	21.07	21.12	
15	16QAM	36	20	21.08	20.97	21.06	
15	16QAM	36	39	20.97	21.01	21.07	21.5
15	16QAM	75	0	21.02	21.00	21.01	
15	64QAM	1	0	20.61	20.78	20.73	
15	64QAM	1	37	20.65	20.76	20.63	21.5
15	64QAM	1	74	20.79	20.75	20.48	
15	64QAM	36	0	20.03	20.03	19.92	
15	64QAM	36	20	20.05	20.08	20.03	20.5
15	64QAM	36	39	20.00	20.00	19.86	
15	64QAM	75	0	20.05	20.01	19.92	
Channel				43199	43340	43590	
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	22.92	22.95	22.96	23.5
10	QPSK	1	25	22.93	22.93	23.05	
10	QPSK	1	49	22.80	22.87	22.94	
10	QPSK	25	0	21.96	22.02	22.09	22.5
10	QPSK	25	12	22.08	21.96	22.05	
10	QPSK	25	25	21.99	21.96	22.05	
10	QPSK	50	0	21.98	21.95	22.02	22.5
10	16QAM	1	0	22.01	22.02	22.10	
10	16QAM	1	25	21.99	22.06	22.10	
10	16QAM	1	49	21.96	21.96	21.98	21.5
10	16QAM	25	0	20.94	21.07	21.07	
10	16QAM	25	12	21.03	20.99	21.05	
10	16QAM	25	25	20.97	21.02	21.06	21.5
10	16QAM	50	0	21.05	20.94	20.99	
10	64QAM	1	0	20.70	20.79	20.67	
10	64QAM	1	25	20.73	20.76	20.58	21.5
10	64QAM	1	49	20.79	20.69	20.52	
10	64QAM	25	0	19.99	20.06	20.00	
10	64QAM	25	12	20.10	20.05	20.05	20.5
10	64QAM	25	25	19.98	20.02	19.89	
10	64QAM	50	0	20.09	19.94	19.89	
Channel				43115	43340	43565	
Frequency (MHz)				3562.5	3575	3597.5	
5	QPSK	1	0	22.92	23.01	22.97	23.5
5	QPSK	1	12	22.90	23.00	22.96	
5	QPSK	1	24	22.83	22.92	22.96	
5	QPSK	12	0	22.00	21.99	22.04	22.5
5	QPSK	12	7	22.05	22.00	22.01	
5	QPSK	12	13	21.99	21.96	22.02	
5	QPSK	25	0	22.03	21.93	22.02	22.5
5	16QAM	1	0	22.05	22.02	22.15	
5	16QAM	1	12	21.98	22.03	22.08	
5	16QAM	1	24	21.90	21.95	22.06	21.5
5	16QAM	12	0	21.04	21.02	21.09	
5	16QAM	12	7	21.08	21.00	21.04	
5	16QAM	12	13	20.98	21.05	21.10	21.5
5	16QAM	25	0	20.98	20.96	21.03	
5	64QAM	1	0	20.81	20.80	20.72	
5	64QAM	1	12	20.71	20.75	20.66	21.5
5	64QAM	1	24	20.75	20.72	20.52	
5	64QAM	12	0	19.96	20.02	19.99	
5	64QAM	12	7	20.05	20.00	19.98	20.5
5	64QAM	12	13	20.00	19.96	19.90	
5	64QAM	25	0	20.02	19.94	19.93	



Band 48									
Airt 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	
Channel				5340	5580	5610	5660		
Frequency (MHz)				3550	3609	3641	3699		
20	QPSK	1	0	18.86	23.62	23.37	18.53	23.5	
20	QPSK	1	49	19.47	23.96	23.02	19.31		
20	QPSK	1	99	19.50	23.04	22.96	19.22		
20	QPSK	50	0	18.70	22.22	22.33	18.61		
20	QPSK	50	24	18.68	22.25	22.18	18.45	22.5	
20	QPSK	50	50	18.61	22.18	22.09	18.34		
20	QPSK	100	0	18.65	22.24	22.17	18.44	22.5	
20	16QAM	1	0	18.74	22.39	22.38	18.67		
20	16QAM	1	49	18.57	22.18	22.11	18.39	21.5	
20	16QAM	1	99	18.63	22.16	22.05	18.30		
20	16QAM	50	0	17.74	21.24	21.26	17.57	21.5	
20	16QAM	50	24	17.72	21.27	21.20	17.46		
20	16QAM	50	50	17.65	21.20	21.12	17.40		
20	16QAM	100	0	17.68	21.24	21.20	17.48		
20	64QAM	1	0	17.45	21.06	20.77	17.44	21.5	
20	64QAM	1	49	17.36	20.91	20.75	17.13		
20	64QAM	1	99	17.39	20.93	20.67	17.09	20.5	
20	64QAM	50	0	16.74	20.25	20.09	16.54		
20	64QAM	50	24	16.70	20.28	20.10	16.48		
20	64QAM	50	50	16.64	20.19	19.99	16.38		
20	64QAM	100	0	16.69	20.27	20.03	16.47	Tune-up limit (dBm)	
Channel				5315	5560	5610	5665		
Frequency (MHz)				3575	3628	3642	3692.5		
15	QPSK	1	0	19.62	23.17	23.26	19.50	23.5	
15	QPSK	1	37	19.41	23.02	23.02	19.27		
15	QPSK	1	74	19.47	22.94	22.86	19.20		
15	QPSK	36	0	18.88	22.21	22.20	18.48		
15	QPSK	36	20	18.58	22.21	22.16	18.40	22.5	
15	QPSK	36	39	18.59	22.14	22.09	18.28		
15	QPSK	75	0	18.55	22.15	22.08	18.43	22.5	
15	16QAM	1	0	18.64	22.30	22.36	18.59		
15	16QAM	1	37	18.55	22.17	22.05	18.33	21.5	
15	16QAM	1	74	18.56	22.10	21.96	18.20		
15	16QAM	36	0	17.67	21.22	21.28	17.47	21.5	
15	16QAM	36	20	17.72	21.18	21.17	17.46		
15	16QAM	36	39	17.57	21.15	21.09	17.38		
15	16QAM	75	0	17.62	21.20	21.11	17.38		
15	64QAM	1	0	17.36	20.98	20.68	17.35	21.5	
15	64QAM	1	37	17.28	20.86	20.72	17.10		
15	64QAM	1	74	17.36	20.93	20.66	17.00	20.5	
15	64QAM	36	0	16.71	20.20	20.00	16.44		
15	64QAM	36	20	16.68	20.23	20.03	16.38		
15	64QAM	36	39	16.62	20.13	19.91	16.36		
15	64QAM	75	0	16.69	20.25	20.03	16.47	Tune-up limit (dBm)	
Channel				5290	5515	55165	5699		
Frequency (MHz)				3555	3607.5	3642.5	3699.5		
10	QPSK	1	0	19.64	23.22	23.18	19.43	23.5	
10	QPSK	1	25	19.46	23.00	22.97	19.21		
10	QPSK	1	49	19.42	23.01	22.86	19.21		
10	QPSK	25	0	18.60	22.20	22.19	18.48		
10	QPSK	25	12	18.59	22.21	22.11	18.38	22.5	
10	QPSK	25	25	18.60	22.18	22.04	18.30		
10	QPSK	50	0	18.55	22.17	22.07	18.38	22.5	
10	16QAM	1	0	18.73	22.31	22.33	18.61		
10	16QAM	1	25	18.54	22.17	22.02	18.34	21.5	
10	16QAM	1	49	18.62	22.09	21.96	18.28		
10	16QAM	25	0	17.68	21.19	21.24	17.48		
10	16QAM	25	12	17.64	21.24	21.11	17.36		
10	16QAM	25	25	17.60	21.16	21.03	17.35	21.5	
10	16QAM	50	0	17.63	21.18	21.14	17.46		
10	64QAM	1	0	17.38	21.02	20.74	17.39	21.5	
10	64QAM	1	25	17.27	20.99	20.75	17.08		
10	64QAM	1	49	17.32	20.92	20.62	17.05		
10	64QAM	25	0	16.69	20.20	20.09	16.47		
10	64QAM	25	12	16.70	20.20	20.07	16.41	20.5	
10	64QAM	25	25	16.60	20.18	19.95	16.29		
10	64QAM	50	0	16.67	20.19	20.01	16.41	Tune-up limit (dBm)	
Channel				5295	5510	55170	5694.5		
Frequency (MHz)				3525.5	3607	3643	3697.5		
5	QPSK	1	0	19.56	23.20	23.23	19.52	23.5	
5	QPSK	1	12	19.40	22.99	23.01	19.22		
5	QPSK	1	24	19.50	22.96	22.96	19.17		
5	QPSK	12	0	18.62	22.19	22.17	18.48		
5	QPSK	12	7	18.68	22.15	22.13	18.40	22.5	
5	QPSK	12	13	18.56	22.10	22.09	18.31		
5	QPSK	25	0	18.62	22.15	22.15	18.37	22.5	
5	16QAM	1	0	18.73	22.37	22.31	18.62		
5	16QAM	1	12	18.56	22.16	22.05	18.35	21.5	
5	16QAM	1	24	18.63	22.15	21.98	18.23		
5	16QAM	12	0	17.67	21.14	21.16	17.62		
5	16QAM	12	7	17.71	21.26	21.13	17.38		
5	16QAM	12	13	17.60	21.13	21.06	17.35	21.5	
5	16QAM	25	0	17.61	21.15	21.10	17.41		
5	64QAM	1	0	17.43	21.01	20.67	17.37	21.5	
5	64QAM	1	12	17.31	20.96	20.73	17.08		
5	64QAM	1	24	17.33	20.87	20.64	17.03		
5	64QAM	12	0	16.68	20.17	20.03	16.48		
5	64QAM	12	7	16.65	20.24	20.10	16.45	20.5	
5	64QAM	12	13	16.55	20.13	19.89	16.35		
5	64QAM	25	0	16.58	20.19	19.97	16.40		



Band 38							
Art 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	24.16	24.19	24.23	25
20	QPSK	1	49	24.23	24.26	24.27	
20	QPSK	1	99	24.23	24.31	24.30	
20	QPSK	50	0	23.28	23.33	23.38	24
20	QPSK	50	24	23.36	23.35	23.34	
20	QPSK	50	50	23.41	23.41	23.44	
20	QPSK	100	0	23.36	23.36	23.35	24
20	16QAM	1	0	23.29	23.31	23.31	
20	16QAM	1	49	23.29	23.33	23.36	
20	16QAM	1	99	23.36	23.42	23.38	23
20	16QAM	50	0	22.32	22.36	22.37	
20	16QAM	50	24	22.40	22.37	22.36	
20	16QAM	50	50	22.42	22.46	22.44	23
20	16QAM	100	0	22.40	22.38	22.36	
20	64QAM	1	0	21.97	21.97	22.02	
20	64QAM	1	49	22.01	22.06	22.08	23
20	64QAM	1	99	22.10	22.13	22.08	
20	64QAM	50	0	21.33	21.38	21.37	
20	64QAM	50	24	21.39	21.39	21.40	22
20	64QAM	50	50	21.43	21.45	21.45	
20	64QAM	100	0	21.41	21.37	21.38	
Channel				37825	38000	38175	
Frequency (MHz)				25775	2595	2612.5	
15	QPSK	1	0	24.14	24.12	24.18	25
15	QPSK	1	37	24.17	24.26	24.27	
15	QPSK	1	74	24.14	24.30	24.30	
15	QPSK	36	0	23.22	23.25	23.31	24
15	QPSK	36	20	23.32	23.28	23.31	
15	QPSK	36	39	23.36	23.31	23.37	
15	QPSK	75	0	23.36	23.32	23.25	24
15	16QAM	1	0	23.22	23.31	23.24	
15	16QAM	1	37	23.24	23.31	23.30	
15	16QAM	1	74	23.28	23.42	23.35	23
15	16QAM	36	0	22.22	22.29	22.35	
15	16QAM	36	20	22.34	22.29	22.32	
15	16QAM	36	39	22.35	22.39	22.36	23
15	16QAM	75	0	22.38	22.32	22.32	
15	64QAM	1	0	21.97	21.97	22.02	
15	64QAM	1	37	21.96	22.03	22.06	23
15	64QAM	1	74	22.00	22.08	21.96	
15	64QAM	36	0	21.23	21.37	21.35	
15	64QAM	36	20	21.38	21.31	21.37	22
15	64QAM	36	39	21.37	21.40	21.37	
15	64QAM	75	0	21.41	21.32	21.30	
Channel				37800	38000	38200	
Frequency (MHz)				25775	2595	2615	
10	QPSK	1	0	24.07	24.17	24.19	25
10	QPSK	1	25	24.21	24.26	24.18	
10	QPSK	1	49	24.14	24.28	24.26	
10	QPSK	25	0	23.22	23.27	23.36	24
10	QPSK	25	12	23.33	23.30	23.24	
10	QPSK	25	25	23.38	23.39	23.36	
10	QPSK	50	0	23.35	23.36	23.26	24
10	16QAM	1	0	23.22	23.31	23.30	
10	16QAM	1	25	23.29	23.31	23.33	
10	16QAM	1	49	23.30	23.36	23.28	23
10	16QAM	25	0	22.30	22.30	22.28	
10	16QAM	25	12	22.30	22.35	22.32	
10	16QAM	25	25	22.34	22.43	22.38	23
10	16QAM	50	0	22.32	22.33	22.30	
10	64QAM	1	0	21.89	21.89	22.02	
10	64QAM	1	25	21.96	21.99	22.03	23
10	64QAM	1	49	22.03	22.06	22.00	
10	64QAM	25	0	21.33	21.34	21.28	
10	64QAM	25	12	21.33	21.37	21.31	22
10	64QAM	25	25	21.33	21.40	21.39	
10	64QAM	50	0	21.32	21.36	21.29	
Channel				37775	38000	38225	
Frequency (MHz)				25725	2595	2617.5	
5	QPSK	1	0	24.11	24.16	24.18	25
5	QPSK	1	12	24.22	24.20	24.19	
5	QPSK	1	24	24.14	24.29	24.28	
5	QPSK	12	0	23.23	23.30	23.33	24
5	QPSK	12	7	23.31	23.28	23.33	
5	QPSK	12	13	23.34	23.31	23.38	
5	QPSK	25	0	23.34	23.31	23.27	24
5	16QAM	1	0	23.24	23.31	23.25	
5	16QAM	1	12	23.23	23.31	23.29	
5	16QAM	1	24	23.33	23.42	23.38	23
5	16QAM	12	0	22.23	22.33	22.37	
5	16QAM	12	7	22.34	22.27	22.31	
5	16QAM	12	13	22.38	22.36	22.40	23
5	16QAM	25	0	22.38	22.28	22.27	
5	64QAM	1	0	21.90	21.92	21.93	
5	64QAM	1	12	21.92	22.03	22.01	23
5	64QAM	1	24	22.07	22.06	22.08	
5	64QAM	12	0	21.28	21.33	21.36	
5	64QAM	12	7	21.38	21.29	21.34	22
5	64QAM	12	13	21.34	21.36	21.40	
5	64QAM	25	0	21.37	21.32	21.35	



Band 38_HPUE							
Art. 2							
Bandwidth (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	25.72	25.69	25.44	26.6
20	QPSK	1	49	25.87	25.81	25.87	
20	QPSK	1	99	25.82	25.68	25.28	
20	QPSK	50	0	25.55	25.16	24.79	26.5
20	QPSK	50	24	25.18	25.09	24.72	
20	QPSK	50	50	25.16	25.07	24.53	
20	QPSK	100	0	23.71	23.06	24.63	26.5
20	16QAM	1	0	25.41	25.24	24.85	
20	16QAM	1	49	25.33	25.21	25.07	
20	16QAM	1	99	25.36	25.14	24.63	26.5
20	16QAM	50	0	24.34	24.15	23.96	
20	16QAM	50	24	24.30	24.06	23.97	
20	16QAM	50	50	24.19	24.05	23.88	26.5
20	16QAM	100	0	23.74	24.03	23.78	
20	64QAM	1	0	23.54	23.80	23.77	
20	64QAM	1	49	23.88	23.81	23.72	26.5
20	64QAM	1	99	23.94	23.99	23.76	
20	64QAM	50	0	22.76	22.73	22.70	
20	64QAM	50	24	22.96	22.83	22.73	24.5
20	64QAM	50	50	22.98	22.93	22.75	
20	64QAM	100	0	22.77	22.69	22.70	
Channel				37825	38000	38175	
Frequency (MHz)				2377.5	2395	2412.5	
15	QPSK	1	0	25.69	25.66	25.47	26.6
15	QPSK	1	37	25.80	25.81	25.87	
15	QPSK	1	74	25.57	25.81	25.28	
15	QPSK	36	0	25.58	25.08	24.79	26.5
15	QPSK	36	20	25.21	25.10	24.71	
15	QPSK	36	39	25.19	25.03	24.52	
15	QPSK	75	0	23.74	25.06	24.68	26.5
15	16QAM	1	0	25.42	25.24	24.85	
15	16QAM	1	37	25.34	25.20	25.08	
15	16QAM	1	74	25.32	25.19	24.60	26.5
15	16QAM	36	0	24.29	24.10	24.05	
15	16QAM	36	20	24.30	24.10	23.96	
15	16QAM	36	39	24.22	24.12	23.97	26.5
15	16QAM	75	0	23.75	24.07	23.76	
15	64QAM	1	0	23.60	23.83	23.72	
15	64QAM	1	37	23.87	23.83	23.75	26.5
15	64QAM	1	74	23.99	23.98	23.71	
15	64QAM	36	0	22.78	22.87	22.69	
15	64QAM	36	20	22.94	22.81	22.70	24.5
15	64QAM	36	39	23.06	22.93	22.77	
15	64QAM	75	0	22.77	22.71	22.75	
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	25.66	25.65	25.48	26.6
10	QPSK	1	25	25.69	25.69	25.68	
10	QPSK	1	49	25.60	25.63	25.32	
10	QPSK	25	0	25.60	25.16	24.84	26.5
10	QPSK	25	12	25.23	25.03	24.77	
10	QPSK	25	25	25.22	25.04	24.52	
10	QPSK	50	0	23.70	25.06	24.59	26.5
10	16QAM	1	0	25.35	25.26	24.79	
10	16QAM	1	25	25.37	25.24	25.10	
10	16QAM	1	49	25.33	25.22	24.64	26.5
10	16QAM	25	0	24.31	24.15	24.00	
10	16QAM	25	12	24.22	24.05	23.98	
10	16QAM	25	25	24.25	24.11	23.93	26.5
10	16QAM	50	0	23.74	24.06	23.81	
10	64QAM	1	0	23.52	23.84	23.73	
10	64QAM	1	25	23.82	23.83	23.74	26.5
10	64QAM	1	49	24.03	24.04	23.75	
10	64QAM	25	0	22.77	22.69	22.74	
10	64QAM	25	12	22.96	22.83	22.76	24.5
10	64QAM	25	25	23.05	22.87	22.72	
10	64QAM	50	0	22.76	22.72	22.70	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	25.65	25.69	25.45	26.6
5	QPSK	1	12	25.66	25.71	25.71	
5	QPSK	1	24	25.55	25.68	25.25	
5	QPSK	12	0	25.60	25.13	24.78	26.5
5	QPSK	12	7	25.18	25.10	24.79	
5	QPSK	12	13	25.21	25.07	24.55	
5	QPSK	25	0	23.76	25.10	24.65	26.5
5	16QAM	1	0	25.35	25.26	24.78	
5	16QAM	1	12	25.37	25.28	25.03	
5	16QAM	1	24	25.36	25.14	24.68	26.5
5	16QAM	12	0	24.32	24.15	24.03	
5	16QAM	12	7	24.24	24.12	23.96	
5	16QAM	12	13	24.21	24.03	23.89	26.5
5	16QAM	25	0	23.73	24.05	23.73	
5	64QAM	1	0	23.60	23.86	23.73	
5	64QAM	1	12	23.87	23.89	23.72	26.5
5	64QAM	1	24	24.01	23.96	23.67	
5	64QAM	12	0	22.78	22.75	22.70	
5	64QAM	12	7	22.99	22.76	22.70	24.5
5	64QAM	12	13	23.05	22.93	22.73	
5	64QAM	25	0	22.79	22.75	22.73	



Band 41										
Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.41	23.25	23.24	23.14	23.15	25	
20	QPSK	1	49	23.34	23.19	23.15	23.05	23.13		
20	QPSK	1	99	23.33	23.17	23.13	23.04	23.03		
20	QPSK	50	0	23.27	23.07	23.13	23.09	23.13	24	
20	QPSK	50	24	23.26	23.09	23.07	23.05	23.02		
20	QPSK	50	50	23.22	23.08	23.18	23.12	23.09		
20	QPSK	100	0	23.35	23.19	23.14	23.04	23.13	24	
20	16QAM	1	0	23.38	23.21	23.23	23.20	23.16		
20	16QAM	1	49	23.34	23.19	23.13	23.08	23.12		
20	16QAM	1	99	23.32	23.23	23.26	23.26	23.20	23	
20	16QAM	50	0	22.63	22.47	22.37	22.32	22.30		
20	16QAM	50	24	22.56	22.42	22.39	22.30	22.30		
20	16QAM	50	50	22.54	22.41	22.45	22.43	22.37	23	
20	16QAM	100	0	22.54	22.42	22.36	22.36	22.34		
20	64QAM	1	0	22.32	22.09	22.09	22.08	22.08		
20	64QAM	1	49	22.27	22.11	22.10	22.02	22.08	23	
20	64QAM	1	99	22.21	22.11	22.17	22.15	22.09		
20	64QAM	50	0	21.66	21.49	21.37	21.32	21.29		
20	64QAM	50	24	21.68	21.44	21.38	21.33	21.37	22	
20	64QAM	50	50	21.56	21.42	21.46	21.39	21.44		
20	64QAM	100	0	21.65	21.41	21.37	21.29	21.27		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2548.5	2593	2637.5	2682.5		
15	QPSK	1	0	23.23	23.07	23.21	23.04	23.09	25	
15	QPSK	1	37	23.26	23.05	23.16	23.02	23.00		
15	QPSK	1	74	23.18	23.03	23.14	23.15	23.17		
15	QPSK	36	0	23.33	23.21	23.33	23.12	23.11	24	
15	QPSK	36	20	23.24	23.16	23.28	23.10	23.10		
15	QPSK	36	36	23.26	23.16	23.31	23.21	23.16		
15	QPSK	75	0	23.30	23.16	23.32	23.06	23.06	24	
15	16QAM	1	0	23.32	23.21	23.30	23.21	23.14		
15	16QAM	1	37	23.24	23.09	23.27	23.08	23.10		
15	16QAM	1	74	23.22	23.15	23.31	23.16	23.18	23	
15	16QAM	36	0	22.62	22.39	22.53	22.28	22.34		
15	16QAM	36	20	22.47	22.41	22.53	22.30	22.37		
15	16QAM	36	36	22.50	22.35	22.44	22.36	22.43	23	
15	16QAM	75	0	22.45	22.37	22.47	22.36	22.35		
15	64QAM	1	0	22.30	22.03	22.22	22.03	22.00		
15	64QAM	1	37	22.20	22.08	22.17	22.09	22.09	23	
15	64QAM	1	74	22.19	22.01	22.12	22.14	22.15		
15	64QAM	36	0	21.66	21.36	21.67	21.28	21.27		
15	64QAM	36	20	21.50	21.36	21.49	21.33	21.32	22	
15	64QAM	36	36	21.48	21.33	21.46	21.46	21.37		
15	64QAM	75	0	21.61	21.34	21.53	21.36	21.32		
Channel				39700	40160	40620	41060	41540	Tune-up limit (dBm)	
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.21	23.01	23.15	23.07	23.13	25	
10	QPSK	1	25	23.21	23.09	23.16	23.08	23.00		
10	QPSK	1	49	23.14	23.08	23.18	23.15	23.10		
10	QPSK	25	0	23.36	23.20	23.31	23.07	23.11	24	
10	QPSK	25	12	23.32	23.16	23.34	23.12	23.08		
10	QPSK	25	25	23.26	23.07	23.24	23.20	23.17		
10	QPSK	50	0	23.33	23.15	23.31	23.11	23.11	24	
10	16QAM	1	0	23.34	23.11	23.30	23.21	23.17		
10	16QAM	1	25	23.32	23.17	23.30	23.11	23.08		
10	16QAM	1	49	23.32	23.23	23.30	23.17	23.16	23	
10	16QAM	25	0	22.63	22.42	22.57	22.30	22.29		
10	16QAM	25	12	22.49	22.32	22.49	22.39	22.33		
10	16QAM	25	25	22.46	22.32	22.51	22.38	22.40	23	
10	16QAM	50	0	22.62	22.42	22.50	22.28	22.34		
10	64QAM	1	0	22.26	22.00	22.22	22.05	22.06		
10	64QAM	1	25	22.25	22.01	22.17	22.10	22.01	23	
10	64QAM	1	49	22.17	22.08	22.15	22.09	22.12		
10	64QAM	25	0	21.63	21.46	21.64	21.29	21.36		
10	64QAM	25	12	21.68	21.36	21.58	21.34	21.37	22	
10	64QAM	25	25	21.54	21.32	21.51	21.44	21.39		
10	64QAM	50	0	21.45	21.41	21.54	21.36	21.30		
Channel				39675	40143	40620	41093	41565	Tune-up limit (dBm)	
Frequency (MHz)				2496.5	2545.8	2593	2643.0	2697.5		
5	QPSK	1	0	23.24	23.05	23.18	23.03	23.03	25	
5	QPSK	1	12	23.18	23.06	23.19	23.05	23.03		
5	QPSK	1	24	23.21	23.04	23.17	23.09	23.18		
5	QPSK	12	0	23.21	23.20	23.40	23.04	23.05	24	
5	QPSK	12	7	23.32	23.19	23.31	23.09	23.10		
5	QPSK	12	13	23.32	23.11	23.31	23.14	23.15		
5	QPSK	25	0	23.32	23.19	23.26	23.04	23.10	24	
5	16QAM	1	0	23.37	23.20	23.33	23.15	23.18		
5	16QAM	1	12	23.31	23.09	23.33	23.04	23.10		
5	16QAM	1	24	23.22	23.13	23.27	23.16	23.20	23	
5	16QAM	12	0	22.60	22.45	22.57	22.37	22.36		
5	16QAM	12	7	22.49	22.33	22.47	22.33	22.32		
5	16QAM	12	13	22.49	22.40	22.51	22.44	22.43	23	
5	16QAM	25	0	22.51	22.40	22.53	22.29	22.30		
5	64QAM	1	0	22.30	22.06	22.27	21.99	22.01		
5	64QAM	1	12	22.18	22.07	22.20	22.00	22.01	23	
5	64QAM	1	24	22.14	22.07	22.12	22.14	22.14		
5	64QAM	12	0	21.69	21.47	21.65	21.34	21.36		
5	64QAM	12	7	21.54	21.40	21.52	21.31	21.30	22	
5	64QAM	12	13	21.61	21.34	21.46	21.36	21.40		
5	64QAM	25	0	21.60	21.33	21.47	21.33	21.34		



Band 41_HPUE										
Ant 2										
BW (Mhz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.		Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	25.72	25.73	25.53	25.53	25.36		26.6
20	QPSK	1	49	25.89	25.71	25.73	25.78	25.74		
20	QPSK	1	99	25.84	25.71	25.32	25.46	25.84		
20	QPSK	50	0	25.83	25.16	24.85	25.01	24.81		
20	QPSK	50	24	25.27	25.10	24.79	24.98	24.96		26.5
20	QPSK	50	50	25.22	25.09	24.57	24.88	24.94		
20	QPSK	100	0	23.76	25.11	24.88	24.91	24.86		
20	16QAM	1	0	25.42	25.26	24.88	24.59	24.85		26.5
20	16QAM	1	49	25.40	25.30	25.11	25.21	25.05		
20	16QAM	1	99	25.40	25.23	24.65	24.79	25.01		
20	16QAM	50	0	24.39	24.19	24.05	24.05	23.82		
20	16QAM	50	24	24.31	24.15	24.00	24.04	23.99		25.5
20	16QAM	50	50	24.28	24.12	23.97	23.91	23.97		
20	16QAM	100	0	23.79	24.13	23.83	23.93	23.88		
20	64QAM	1	0	23.82	23.87	23.78	23.87	23.51		25.5
20	64QAM	1	49	23.89	23.89	23.75	24.14	23.81		
20	64QAM	1	99	24.04	24.05	23.76	23.59	23.50		
20	64QAM	50	0	22.82	22.77	22.79	23.07	22.85		24.5
20	64QAM	50	24	23.04	22.83	22.78	23.04	22.89		
20	64QAM	50	50	23.08	22.93	22.79	22.94	22.57		
20	64QAM	100	0	22.82	22.75	22.76	22.96	22.68		
Channel				39725	40173	40620	41068	41515		Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.5	2592	2637.5	2682.5		
15	QPSK	1	0	25.83	25.71	25.44	25.59	25.33		26.6
15	QPSK	1	37	25.59	25.70	25.69	25.70	25.72		
15	QPSK	1	74	25.62	25.63	25.26	25.42	25.54		
15	QPSK	36	0	25.54	25.12	24.78	24.96	24.78		
15	QPSK	36	20	25.27	25.10	24.72	24.91	24.88		26.5
15	QPSK	36	39	25.15	25.05	24.49	24.83	24.97		
15	QPSK	75	0	23.98	25.01	24.59	24.84	24.78		
15	16QAM	1	0	25.37	25.17	24.83	24.89	24.61		26.5
15	16QAM	1	37	25.38	25.24	25.06	25.19	25.05		
15	16QAM	1	74	25.33	25.14	24.64	24.78	25.01		
15	16QAM	36	0	24.33	24.13	24.02	23.97	23.80		
15	16QAM	36	20	24.25	24.13	23.98	23.85	23.89		25.5
15	16QAM	36	39	24.23	24.12	23.89	23.82	23.90		
15	16QAM	75	0	23.76	24.08	23.73	23.90	23.79		
15	64QAM	1	0	23.64	23.83	23.70	23.84	23.49		25.5
15	64QAM	1	37	23.84	23.85	23.66	24.06	23.80		
15	64QAM	1	74	23.99	24.04	23.72	23.56	23.48		
15	64QAM	36	0	22.75	22.75	22.69	23.05	22.81		24.5
15	64QAM	36	20	23.03	22.80	22.71	22.98	22.87		
15	64QAM	36	39	23.05	22.93	22.72	22.87	22.53		
15	64QAM	75	0	22.74	22.67	22.70	22.91	22.68		
Channel				39700	40160	40620	41080	41540		Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2592	2639	2685		
10	QPSK	1	0	25.89	25.72	25.44	25.58	25.28		26.6
10	QPSK	1	25	25.66	25.71	25.65	25.70	25.84		
10	QPSK	1	49	25.63	25.66	25.22	25.38	25.63		
10	QPSK	25	0	25.55	25.16	24.84	24.97	24.79		26.5
10	QPSK	25	12	25.21	25.06	24.73	24.94	24.88		
10	QPSK	25	25	25.12	25.01	24.65	24.80	24.92		
10	QPSK	50	0	23.76	25.02	24.59	24.86	24.80		
10	16QAM	1	0	25.36	25.19	24.85	24.91	24.67		26.5
10	16QAM	1	25	25.37	25.29	25.06	25.16	25.02		
10	16QAM	1	49	25.32	25.17	24.62	24.78	24.91		
10	16QAM	25	0	24.29	24.17	24.04	24.05	23.78		
10	16QAM	25	12	24.29	24.05	23.97	23.98	23.91		25.5
10	16QAM	25	25	24.19	24.06	23.93	23.89	23.92		
10	16QAM	50	0	23.75	24.05	23.75	23.90	23.81		
10	64QAM	1	0	23.53	23.81	23.68	23.77	23.49		25.5
10	64QAM	1	25	23.86	23.86	23.74	24.11	23.71		
10	64QAM	1	49	23.95	24.00	23.71	23.52	23.50		
10	64QAM	25	0	22.76	22.75	22.73	23.03	22.80		24.5
10	64QAM	25	12	22.98	22.79	22.76	23.03	22.84		
10	64QAM	25	25	23.03	22.86	22.70	22.87	22.50		
10	64QAM	50	0	22.75	22.68	22.68	22.96	22.62		
Channel				39515	40143	40620	41093	41595		Tune-up limit (dBm)
Frequency (MHz)				2496.5	2545.8	2593	2643.30	2697.5		
5	QPSK	1	0	25.65	25.67	25.50	25.58	25.27		26.6
5	QPSK	1	12	25.63	25.71	25.63	25.74	25.70		
5	QPSK	1	24	25.61	25.61	25.24	25.46	25.58		
5	QPSK	12	0	25.53	25.10	24.80	24.94	24.77		26.5
5	QPSK	12	7	25.23	25.04	24.75	24.58	24.94		
5	QPSK	12	13	25.22	25.08	24.51	24.84	24.85		
5	QPSK	25	0	23.67	25.05	24.59	24.86	24.86		
5	16QAM	1	0	25.33	25.22	24.81	24.97	24.66		26.5
5	16QAM	1	12	25.39	25.21	25.06	25.12	25.02		
5	16QAM	1	24	25.31	25.23	24.65	24.75	24.95		
5	16QAM	12	0	24.34	24.11	23.96	23.98	23.82		25.5
5	16QAM	12	7	24.24	24.08	23.94	23.95	23.93		
5	16QAM	12	13	24.23	24.07	23.87	23.91	23.92		
5	16QAM	25	0	23.75	24.10	23.75	23.86	23.86		
5	64QAM	1	0	23.80	23.83	23.77	23.84	23.49		25.5
5	64QAM	1	12	23.95	23.94	23.70	24.09	23.79		
5	64QAM	1	24	24.03	23.96	23.75	23.54	23.46		
5	64QAM	12	0	22.82	22.73	22.72	23.01	22.78		24.5
5	64QAM	12	7	22.94	22.77	22.70	22.97	22.82		
5	64QAM	12	13	23.06	22.88	22.78	22.84	22.56		
5	64QAM	25	0	22.81	22.75	22.69	22.96	22.64		



Band 38							
Art 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	19.60	19.60	19.54	20.2
20	QPSK	1	49	19.70	19.70	19.64	
20	QPSK	1	99	19.82	19.70	19.68	
20	QPSK	50	0	19.80	19.73	19.73	20.2
20	QPSK	50	24	19.90	19.76	19.74	
20	QPSK	50	50	19.91	19.81	19.80	
20	QPSK	100	0	19.87	19.75	19.74	20.2
20	16QAM	1	0	19.76	19.73	19.70	
20	16QAM	1	49	19.74	19.70	19.74	
20	16QAM	1	99	19.84	19.78	19.74	20.2
20	16QAM	50	0	19.79	19.75	19.73	
20	16QAM	50	24	19.88	19.74	19.72	
20	16QAM	50	50	19.90	19.83	19.83	20.2
20	16QAM	100	0	19.88	19.74	19.72	
20	64QAM	1	0	19.50	19.43	19.40	
20	64QAM	1	49	19.55	19.49	19.50	20.2
20	64QAM	1	99	19.64	19.54	19.48	
20	64QAM	50	0	19.82	19.77	19.75	
20	64QAM	50	24	19.70	19.77	19.77	20.2
20	64QAM	50	50	19.72	19.85	19.83	
20	64QAM	100	0	19.89	19.75	19.75	
Channel				37825	38000	38125	
Frequency (MHz)				25775	2595	2612.5	
15	QPSK	1	0	19.58	19.68	19.54	20.2
15	QPSK	1	37	19.68	19.66	19.59	
15	QPSK	1	74	19.73	19.69	19.58	
15	QPSK	36	0	19.77	19.72	19.72	20.2
15	QPSK	36	20	19.90	19.74	19.64	
15	QPSK	36	39	19.91	19.73	19.70	
15	QPSK	75	0	19.87	19.70	19.67	20.2
15	16QAM	1	0	19.74	19.70	19.64	
15	16QAM	1	37	19.65	19.62	19.71	
15	16QAM	1	74	19.79	19.76	19.65	20.2
15	16QAM	36	0	19.73	19.67	19.65	
15	16QAM	36	20	19.81	19.73	19.71	
15	16QAM	36	39	19.88	19.80	19.79	20.2
15	16QAM	75	0	19.84	19.67	19.69	
15	64QAM	1	0	19.46	19.39	19.34	
15	64QAM	1	37	19.50	19.39	19.42	20.2
15	64QAM	1	74	19.63	19.44	19.41	
15	64QAM	36	0	19.76	19.71	19.71	
15	64QAM	36	20	19.84	19.70	19.73	20.2
15	64QAM	36	39	19.84	19.84	19.83	
15	64QAM	75	0	19.79	19.66	19.66	
Channel				37800	38000	38200	
Frequency (MHz)				25775	2595	2615	
10	QPSK	1	0	19.56	19.55	19.50	20.2
10	QPSK	1	25	19.61	19.63	19.61	
10	QPSK	1	49	19.65	19.68	19.63	
10	QPSK	25	0	19.72	19.69	19.70	20.2
10	QPSK	25	12	19.82	19.88	19.73	
10	QPSK	25	25	19.86	19.72	19.72	
10	QPSK	50	0	19.87	19.65	19.66	20.2
10	16QAM	1	0	19.77	19.71	19.63	
10	16QAM	1	25	19.87	19.66	19.67	
10	16QAM	1	49	19.74	19.70	19.71	20.2
10	16QAM	25	0	19.70	19.72	19.66	
10	16QAM	25	12	19.85	19.73	19.67	
10	16QAM	25	25	19.86	19.79	19.81	20.2
10	16QAM	50	0	19.84	19.66	19.66	
10	64QAM	1	0	19.47	19.41	19.38	
10	64QAM	1	25	19.46	19.42	19.45	20.2
10	64QAM	1	49	19.61	19.45	19.42	
10	64QAM	25	0	19.75	19.69	19.71	
10	64QAM	25	12	19.84	19.67	19.72	20.2
10	64QAM	25	25	19.90	19.83	19.73	
10	64QAM	50	0	19.84	19.71	19.66	
Channel				37775	38000	38225	
Frequency (MHz)				25725	2595	2617.5	
5	QPSK	1	0	19.58	19.54	19.53	20.2
5	QPSK	1	12	19.61	19.67	19.56	
5	QPSK	1	24	19.66	19.68	19.67	
5	QPSK	12	0	19.71	19.73	19.69	20.2
5	QPSK	12	7	19.82	19.71	19.70	
5	QPSK	12	13	19.85	19.73	19.75	
5	QPSK	25	0	19.77	19.72	19.65	20.2
5	16QAM	1	0	19.72	19.64	19.62	
5	16QAM	1	12	19.72	19.67	19.65	
5	16QAM	1	24	19.76	19.71	19.72	20.2
5	16QAM	12	0	19.76	19.68	19.70	
5	16QAM	12	7	19.84	19.68	19.72	
5	16QAM	12	13	19.88	19.74	19.80	20.2
5	16QAM	25	0	19.79	19.72	19.66	
5	64QAM	1	0	19.47	19.41	19.35	
5	64QAM	1	12	19.49	19.43	19.42	20.2
5	64QAM	1	24	19.61	19.49	19.38	
5	64QAM	12	0	19.82	19.75	19.73	
5	64QAM	12	7	19.87	19.77	19.76	20.2
5	64QAM	12	13	19.91	19.76	19.75	
5	64QAM	25	0	19.91	19.72	19.70	



Band 38_HPUE							
Art 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	21.22	20.83	20.77	21.8
20	QPSK	1	49	20.96	20.84	20.80	
20	QPSK	1	99	21.16	20.85	20.87	
20	QPSK	50	0	21.13	20.87	21.03	21.8
20	QPSK	50	24	20.85	20.69	20.48	
20	QPSK	50	50	20.63	20.64	20.60	
20	QPSK	100	0	20.73	20.74	20.51	21.8
20	16QAM	1	0	20.90	20.97	20.87	
20	16QAM	1	49	21.02	21.02	20.84	
20	16QAM	1	99	20.96	20.98	21.00	21.8
20	16QAM	50	0	21.00	21.04	20.71	
20	16QAM	50	24	21.09	21.02	20.73	
20	16QAM	50	50	21.00	20.71	20.79	21.8
20	16QAM	100	0	21.20	20.88	20.68	
20	64QAM	1	0	20.99	20.82	20.75	
20	64QAM	1	49	20.95	20.88	20.67	21.8
20	64QAM	1	99	21.00	20.84	20.68	
20	64QAM	50	0	20.98	21.07	20.82	
20	64QAM	50	24	21.10	21.04	20.77	21.8
20	64QAM	50	50	20.98	20.84	20.80	
20	64QAM	100	0	20.95	20.93	20.76	
Channel				37825	38000	38175	
Frequency (MHz)				2377.5	2392	2412.5	
15	QPSK	1	0	21.20	20.91	20.68	21.8
15	QPSK	1	37	20.88	20.78	20.69	
15	QPSK	1	74	20.94	20.98	20.65	
15	QPSK	36	0	20.99	20.92	20.96	21.8
15	QPSK	36	20	20.74	20.75	20.58	
15	QPSK	36	39	20.57	20.58	20.55	
15	QPSK	75	0	20.60	20.52	20.58	21.8
15	16QAM	1	0	21.04	20.97	20.55	
15	16QAM	1	37	20.77	20.97	20.95	
15	16QAM	1	74	20.90	21.07	20.90	21.8
15	16QAM	36	0	20.96	20.93	20.73	
15	16QAM	36	20	21.08	21.01	20.78	
15	16QAM	36	39	20.85	20.76	20.69	21.8
15	16QAM	75	0	20.96	20.93	20.86	
15	64QAM	1	0	20.88	20.62	20.69	
15	64QAM	1	37	20.95	20.74	20.64	21.8
15	64QAM	1	74	21.01	20.72	20.74	
15	64QAM	36	0	20.94	20.92	20.81	
15	64QAM	36	20	21.06	20.85	20.83	21.8
15	64QAM	36	39	20.84	20.79	20.76	
15	64QAM	75	0	20.87	20.85	20.69	
Channel				37800	38000	38200	
Frequency (MHz)				2075	2095	2115	
10	QPSK	1	0	21.12	20.81	20.64	21.8
10	QPSK	1	25	20.70	20.74	20.74	
10	QPSK	1	49	20.92	20.85	20.48	
10	QPSK	25	0	21.05	20.99	20.81	21.8
10	QPSK	25	12	20.73	20.58	20.50	
10	QPSK	25	25	20.66	20.54	20.39	
10	QPSK	50	0	20.63	20.52	20.54	21.8
10	16QAM	1	0	20.81	20.69	20.56	
10	16QAM	1	25	20.76	21.00	20.77	
10	16QAM	1	49	20.89	20.75	20.97	21.8
10	16QAM	25	0	20.95	20.92	20.64	
10	16QAM	25	12	20.92	20.92	20.69	
10	16QAM	25	25	20.90	20.52	20.82	21.8
10	16QAM	50	0	21.06	20.75	20.67	
10	64QAM	1	0	20.86	20.76	20.70	
10	64QAM	1	25	20.83	20.75	20.61	21.8
10	64QAM	1	49	20.92	20.83	20.58	
10	64QAM	25	0	20.98	20.95	20.61	
10	64QAM	25	12	20.97	20.88	20.69	21.8
10	64QAM	25	25	20.91	20.75	20.81	
10	64QAM	50	0	20.70	20.78	20.82	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	20.90	20.62	20.70	21.8
5	QPSK	1	12	20.84	20.64	20.73	
5	QPSK	1	24	20.91	20.64	20.50	
5	QPSK	12	0	20.97	20.77	20.91	21.8
5	QPSK	12	7	20.61	20.66	20.31	
5	QPSK	12	13	20.45	20.59	20.34	
5	QPSK	25	0	20.58	20.47	20.48	21.8
5	16QAM	1	0	20.88	20.94	20.57	
5	16QAM	1	12	20.68	20.90	20.67	
5	16QAM	1	24	20.81	20.83	20.60	21.8
5	16QAM	12	0	20.87	20.79	20.52	
5	16QAM	12	7	20.98	20.85	20.48	
5	16QAM	12	13	20.79	20.74	20.58	21.8
5	16QAM	25	0	20.84	20.77	20.57	
5	64QAM	1	0	20.81	20.75	20.45	
5	64QAM	1	12	20.85	20.82	20.77	21.8
5	64QAM	1	24	20.82	20.78	20.55	
5	64QAM	12	0	20.94	20.89	20.74	
5	64QAM	12	7	21.04	20.74	20.54	21.8
5	64QAM	12	13	20.91	20.61	20.59	
5	64QAM	25	0	20.79	20.92	20.68	



Band 41										
Ant 2										
BW (Mhz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	19.70	19.53	19.52	19.43	19.36	20.2	
20	QPSK	1	49	19.88	19.46	19.43	19.39	19.32	20.2	
20	QPSK	1	99	19.84	19.47	19.40	19.26	19.23	20.2	
20	QPSK	50	0	19.66	19.45	19.41	19.29	19.21	20.2	
20	QPSK	50	24	19.39	19.18	19.12	18.96	18.42	20.2	
20	QPSK	50	50	19.37	19.18	19.15	19.21	18.96	20.2	
20	QPSK	100	0	19.32	19.21	19.20	18.61	19.02	20.2	
20	16QAM	1	0	19.69	19.49	19.47	19.18	19.16	20.2	
20	16QAM	1	49	19.59	19.45	19.41	19.43	19.19	20.2	
20	16QAM	1	99	19.57	19.49	19.48	18.95	19.22	20.2	
20	16QAM	50	0	19.69	19.53	19.41	19.40	19.13	20.2	
20	16QAM	50	24	19.62	19.47	19.44	19.37	19.29	20.2	
20	16QAM	50	50	19.61	19.47	19.53	19.24	19.28	20.2	
20	16QAM	100	0	19.63	19.46	19.43	19.27	19.19	20.2	
20	64QAM	1	0	19.54	19.35	19.36	19.08	18.74	20.2	
20	64QAM	1	49	19.50	19.37	19.30	19.33	19.16	20.2	
20	64QAM	1	99	19.48	19.36	19.43	18.88	19.08	20.2	
20	64QAM	50	0	19.68	19.52	19.38	19.38	19.12	20.2	
20	64QAM	50	24	19.59	19.46	19.40	19.35	19.29	20.2	
20	64QAM	50	50	19.58	19.44	19.49	19.22	19.26	20.2	
20	64QAM	100	0	19.59	19.44	19.41	19.24	19.19	Tune-up limit (dBm)	
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.5	2593	2637.5	2682.5		
15	QPSK	1	0	19.68	19.44	19.35	19.35	19.16	20.2	
15	QPSK	1	37	19.84	19.45	19.42	19.39	19.27	20.2	
15	QPSK	1	74	19.83	19.43	19.52	19.16	19.27	20.2	
15	QPSK	36	0	19.67	19.44	19.32	19.25	19.21	20.2	
15	QPSK	36	20	19.38	19.13	19.12	18.89	18.34	20.2	
15	QPSK	36	39	19.27	19.10	19.12	19.11	18.95	20.2	
15	QPSK	75	0	19.50	19.13	19.17	18.61	19.01	20.2	
15	16QAM	1	0	19.82	19.43	19.42	19.14	18.70	20.2	
15	16QAM	1	37	19.84	19.42	19.33	19.33	19.10	20.2	
15	16QAM	1	74	19.49	19.49	19.40	18.93	19.18	20.2	
15	16QAM	36	0	19.67	19.46	19.40	19.30	19.06	20.2	
15	16QAM	36	20	19.62	19.43	19.34	19.31	19.25	20.2	
15	16QAM	36	39	19.52	19.37	19.45	19.16	19.28	20.2	
15	16QAM	75	0	19.53	19.38	19.36	19.24	19.19	20.2	
15	64QAM	1	0	19.64	19.34	19.26	19.05	18.67	20.2	
15	64QAM	1	37	19.46	19.37	19.30	19.23	19.15	20.2	
15	64QAM	1	74	19.41	19.32	19.38	18.81	19.05	20.2	
15	64QAM	36	0	19.67	19.47	19.34	19.28	19.08	20.2	
15	64QAM	36	20	19.51	19.43	19.40	19.31	19.19	20.2	
15	64QAM	36	39	19.55	19.40	19.41	19.21	19.21	20.2	
15	64QAM	75	0	19.52	19.34	19.38	19.16	19.17	Tune-up limit (dBm)	
Channel				39700	40160	40620	41060	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	19.69	19.53	19.35	19.33	19.09	20.2	
10	QPSK	1	25	19.59	19.44	19.43	19.36	19.24	20.2	
10	QPSK	1	49	19.64	19.37	19.52	19.21	19.22	20.2	
10	QPSK	25	0	19.64	19.43	19.37	19.27	19.18	20.2	
10	QPSK	25	12	19.34	19.13	19.10	18.95	18.35	20.2	
10	QPSK	25	25	19.31	19.15	19.15	19.19	18.92	20.2	
10	QPSK	50	0	19.28	19.13	19.19	18.55	19.00	20.2	
10	16QAM	1	0	19.56	19.43	19.39	19.08	18.71	20.2	
10	16QAM	1	25	19.49	19.38	19.36	19.39	19.09	20.2	
10	16QAM	1	49	19.67	19.44	19.43	18.88	19.14	20.2	
10	16QAM	25	0	19.64	19.51	19.39	19.32	19.03	20.2	
10	16QAM	25	12	19.58	19.37	19.34	19.37	19.23	20.2	
10	16QAM	25	25	19.61	19.46	19.46	19.16	19.22	20.2	
10	16QAM	50	0	19.65	19.43	19.35	19.22	19.19	20.2	
10	64QAM	1	0	19.44	19.30	19.36	18.99	18.68	20.2	
10	64QAM	1	25	19.50	19.36	19.27	19.30	19.16	20.2	
10	64QAM	1	49	19.44	19.28	19.33	18.81	19.02	20.2	
10	64QAM	25	0	19.64	19.42	19.33	19.37	19.09	20.2	
10	64QAM	25	12	19.50	19.42	19.34	19.33	19.20	20.2	
10	64QAM	25	25	19.56	19.38	19.49	19.13	19.19	20.2	
10	64QAM	50	0	19.53	19.36	19.38	19.20	19.10	Tune-up limit (dBm)	
Channel				39715	40163	40620	41063	41568		
Frequency (MHz)				2496.5	2545.8	2593	2643.0	2697.5		
5	QPSK	1	0	19.60	19.48	19.32	19.35	19.07	20.2	
5	QPSK	1	12	19.68	19.46	19.38	19.32	19.29	20.2	
5	QPSK	1	24	19.57	19.46	19.45	19.26	19.20	20.2	
5	QPSK	12	0	19.62	19.36	19.41	19.25	19.14	20.2	
5	QPSK	12	7	19.36	19.08	19.10	18.89	18.34	20.2	
5	QPSK	12	13	19.28	19.11	19.05	19.17	18.87	20.2	
5	QPSK	25	0	19.22	19.19	19.14	18.57	18.94	20.2	
5	16QAM	1	0	19.50	19.40	19.39	19.16	18.73	20.2	
5	16QAM	1	12	19.55	19.38	19.34	19.39	19.19	20.2	
5	16QAM	1	24	19.49	19.45	19.45	18.87	19.17	20.2	
5	16QAM	12	0	19.84	19.45	19.31	19.36	19.07	20.2	
5	16QAM	12	7	19.62	19.47	19.42	19.37	19.20	20.2	
5	16QAM	12	13	19.56	19.43	19.48	19.21	19.22	20.2	
5	16QAM	25	0	19.53	19.38	19.37	19.25	19.09	20.2	
5	64QAM	1	0	19.46	19.34	19.28	19.03	18.72	20.2	
5	64QAM	1	12	19.43	19.29	19.24	19.32	19.13	20.2	
5	64QAM	1	24	19.48	19.27	19.39	18.87	19.06	20.2	
5	64QAM	12	0	19.68	19.42	19.33	19.31	19.08	20.2	
5	64QAM	12	7	19.55	19.46	19.38	19.26	19.22	20.2	
5	64QAM	12	13	19.58	19.40	19.42	19.22	19.24	20.2	
5	64QAM	25	0	19.57	19.39	19.34	19.23	19.11	20.2	



Band 41_HPUE											
Ant 5											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.24	21.03	20.90	20.95	20.78		21.8	
20	QPSK	1	49	21.05	20.97	20.98	20.77	20.77		21.8	
20	QPSK	1	99	21.18	21.02	20.80	20.76	20.64		21.8	
20	QPSK	50	0	21.15	21.07	21.10	20.73	20.52		21.8	
20	QPSK	50	24	20.84	20.78	20.65	20.50	20.19		21.8	
20	QPSK	50	50	20.79	20.79	20.63	20.68	20.63		21.8	
20	QPSK	100	0	20.84	20.74	20.70	20.29	20.51		21.8	
20	16QAM	1	0	21.08	21.02	20.80	20.83	20.81		21.8	
20	16QAM	1	49	21.02	21.17	21.02	21.02	20.89		21.8	
20	16QAM	1	99	21.15	21.14	21.06	20.53	20.86		21.8	
20	16QAM	50	0	21.14	21.10	20.84	20.79	20.66		21.8	
20	16QAM	50	24	21.19	21.11	20.84	20.94	20.80		21.8	
20	16QAM	50	50	21.08	20.90	20.98	20.73	20.85		21.8	
20	16QAM	100	0	21.22	21.02	20.87	20.78	20.66		21.8	
20	64QAM	1	0	21.08	20.90	20.80	20.56	20.24		21.8	
20	64QAM	1	49	21.09	20.94	20.84	20.95	20.73		21.8	
20	64QAM	1	99	21.06	20.91	20.87	20.40	20.63		21.8	
20	64QAM	50	0	21.09	21.08	20.90	20.89	20.96		21.8	
20	64QAM	50	24	21.15	21.05	20.83	20.69	20.76		21.8	
20	64QAM	50	50	21.05	20.94	20.90	20.72	20.85		21.8	
20	64QAM	100	0	20.95	21.01	20.92	20.79	20.72		21.8	
Channel											Tune-up limit (dBm)
Frequency (MHz)											
15	QPSK	1	0	21.22	20.94	20.83	20.87	20.68		21.8	
15	QPSK	1	37	20.99	20.88	20.89	20.72	20.73		21.8	
15	QPSK	1	74	21.10	20.98	20.79	20.66	20.61		21.8	
15	QPSK	36	0	21.08	21.03	21.01	20.68	20.50		21.8	
15	QPSK	36	20	20.86	20.78	20.65	20.50	20.12		21.8	
15	QPSK	36	39	20.76	20.69	20.62	20.60	20.63		21.8	
15	QPSK	75	0	20.74	20.67	20.61	20.29	20.43		21.8	
15	16QAM	1	0	21.08	21.02	20.75	20.77	20.55		21.8	
15	16QAM	1	37	20.95	21.10	20.96	21.00	20.85		21.8	
15	16QAM	1	74	21.07	21.09	21.01	20.50	20.78		21.8	
15	16QAM	36	0	21.10	21.01	20.78	20.77	20.58		21.8	
15	16QAM	36	20	21.17	21.01	20.80	20.90	20.74		21.8	
15	16QAM	36	39	21.06	20.85	20.89	20.71	20.85		21.8	
15	16QAM	75	0	21.14	20.97	20.87	20.71	20.58		21.8	
15	64QAM	1	0	21.08	20.80	20.77	20.56	20.20		21.8	
15	64QAM	1	37	21.02	20.88	20.82	20.83	20.71		21.8	
15	64QAM	1	74	21.05	20.89	20.77	20.39	20.59		21.8	
15	64QAM	36	0	21.04	21.07	20.87	20.69	20.65		21.8	
15	64QAM	36	20	21.08	21.03	20.84	20.80	20.66		21.8	
15	64QAM	36	39	20.86	20.90	20.81	20.62	20.79		21.8	
15	64QAM	75	0	20.82	21.01	20.84	20.72	20.69		21.8	
Channel											Tune-up limit (dBm)
Frequency (MHz)											
10	QPSK	1	0	21.20	20.91	20.81	20.87	20.63		21.8	
10	QPSK	1	25	20.89	20.85	20.82	20.75	20.66		21.8	
10	QPSK	1	49	21.11	20.90	20.62	20.68	20.52		21.8	
10	QPSK	25	0	21.09	20.99	20.97	20.65	20.39		21.8	
10	QPSK	25	12	20.82	20.72	20.59	20.42	20.09		21.8	
10	QPSK	25	25	20.68	20.74	20.50	20.64	20.50		21.8	
10	QPSK	50	0	20.73	20.64	20.66	20.18	20.36		21.8	
10	16QAM	1	0	20.99	20.88	20.74	20.72	20.47		21.8	
10	16QAM	1	25	20.96	21.09	20.95	20.96	20.75		21.8	
10	16QAM	1	49	21.06	20.95	20.97	20.41	20.78		21.8	
10	16QAM	25	0	21.02	20.99	20.75	20.78	20.60		21.8	
10	16QAM	25	12	21.11	21.06	20.71	20.80	20.66		21.8	
10	16QAM	25	25	20.97	20.72	20.86	20.60	20.72		21.8	
10	16QAM	50	0	21.15	20.85	20.79	20.74	20.59		21.8	
10	64QAM	1	0	20.89	20.82	20.77	20.49	20.15		21.8	
10	64QAM	1	25	20.97	20.82	20.72	20.67	20.62		21.8	
10	64QAM	1	49	21.06	20.73	20.71	20.60	20.44		21.8	
10	64QAM	25	0	21.05	20.99	20.79	20.69	20.50		21.8	
10	64QAM	25	12	21.02	21.02	20.85	20.78	20.73		21.8	
10	64QAM	25	25	21.00	20.92	20.81	20.57	20.80		21.8	
10	64QAM	50	0	20.88	20.92	20.88	20.65	20.67		21.8	
Channel											Tune-up limit (dBm)
Frequency (MHz)											
5	QPSK	1	0	20.97	20.82	20.70	20.78	20.67		21.8	
5	QPSK	1	12	20.97	20.80	20.78	20.66	20.68		21.8	
5	QPSK	1	24	20.99	20.82	20.60	20.61	20.48		21.8	
5	QPSK	12	0	21.04	20.94	20.95	20.45	20.36		21.8	
5	QPSK	12	7	20.74	20.66	20.50	20.38	20.02		21.8	
5	QPSK	12	13	20.62	20.74	20.49	20.57	20.49		21.8	
5	QPSK	25	0	20.73	20.55	20.62	20.23	20.35		21.8	
5	16QAM	1	0	20.90	20.94	20.64	20.70	20.54		21.8	
5	16QAM	1	12	20.81	21.06	20.83	20.85	20.70		21.8	
5	16QAM	1	24	20.89	20.93	20.95	20.43	20.72		21.8	
5	16QAM	12	0	20.93	20.88	20.65	20.64	20.49		21.8	
5	16QAM	12	7	21.04	20.96	20.65	20.77	20.62		21.8	
5	16QAM	12	13	20.97	20.75	20.78	20.62	20.65		21.8	
5	16QAM	25	0	20.95	20.87	20.69	20.59	20.57		21.8	
5	64QAM	1	0	20.91	20.82	20.56	20.45	20.06		21.8	
5	64QAM	1	12	20.92	20.84	20.79	20.75	20.60		21.8	
5	64QAM	1	24	20.97	20.82	20.71	20.24	20.54		21.8	
5	64QAM	12	0	20.99	21.02	20.87	20.72	20.49		21.8	
5	64QAM	12	7	21.11	20.83	20.71	20.71	20.65		21.8	
5	64QAM	12	13	20.83	20.75	20.67	20.70	20.76		21.8	
5	64QAM	25	0	20.86	21.00	20.85	20.98	20.51		21.8	



Band 42							
Art 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				43190	43340	43490	
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	24.84	24.68	24.76	25
20	QPSK	1	49	24.81	24.68	24.74	
20	QPSK	1	99	24.59	24.62	24.68	
20	QPSK	50	0	23.79	23.86	23.94	24
20	QPSK	50	24	23.87	23.84	23.88	
20	QPSK	50	50	23.79	23.86	23.90	
20	QPSK	100	0	23.84	23.83	23.87	24
20	16QAM	1	0	23.94	23.92	23.90	
20	16QAM	1	49	23.93	23.95	23.90	
20	16QAM	1	99	23.96	23.98	23.99	23
20	16QAM	50	0	22.85	22.87	22.97	
20	16QAM	50	24	22.89	22.85	22.92	
20	16QAM	50	50	22.83	22.89	22.91	23
20	16QAM	100	0	22.88	22.85	22.90	
20	64QAM	1	0	22.79	22.82	22.90	
20	64QAM	1	49	22.81	22.88	22.85	23
20	64QAM	1	99	22.81	22.86	22.76	
20	64QAM	50	0	21.84	21.90	21.85	
20	64QAM	50	24	21.89	21.89	21.93	22
20	64QAM	50	50	21.84	21.89	21.84	
20	64QAM	100	0	21.88	21.85	21.84	
Channel				43165	43340	43515	
Frequency (MHz)				3572.5	3575	3592.5	
15	QPSK	1	0	24.63	24.61	24.75	25
15	QPSK	1	37	24.80	24.66	24.67	
15	QPSK	1	74	24.56	24.53	24.61	
15	QPSK	36	0	23.77	23.78	23.92	24
15	QPSK	36	20	23.81	23.77	23.84	
15	QPSK	36	39	23.69	23.79	23.86	
15	QPSK	75	0	23.76	23.77	23.78	24
15	16QAM	1	0	23.93	23.99	23.99	
15	16QAM	1	37	23.97	23.95	23.97	
15	16QAM	1	74	23.86	23.88	23.97	23
15	16QAM	36	0	22.78	22.77	22.97	
15	16QAM	36	20	22.90	22.94	22.90	
15	16QAM	36	39	22.74	22.89	22.91	23
15	16QAM	75	0	22.86	22.76	22.83	
15	64QAM	1	0	22.75	22.72	22.83	
15	64QAM	1	37	22.80	22.78	22.85	23
15	64QAM	1	74	22.80	22.78	22.74	
15	64QAM	36	0	21.84	21.89	21.85	
15	64QAM	36	20	21.83	21.85	21.92	22
15	64QAM	36	39	21.81	21.82	21.82	
15	64QAM	75	0	21.84	21.78	21.75	
Channel				43140	43340	43540	
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	24.81	24.55	24.74	25
10	QPSK	1	25	24.58	24.56	24.68	
10	QPSK	1	49	24.59	24.52	24.61	
10	QPSK	25	0	23.74	23.79	23.88	24
10	QPSK	25	12	23.85	23.74	23.87	
10	QPSK	25	25	23.75	23.85	23.90	
10	QPSK	50	0	23.80	23.82	23.87	24
10	16QAM	1	0	23.94	23.96	23.96	
10	16QAM	1	25	23.90	23.96	23.90	
10	16QAM	1	49	23.92	23.88	23.98	23
10	16QAM	25	0	22.76	22.77	22.92	
10	16QAM	25	12	22.84	22.77	22.84	
10	16QAM	25	25	22.80	22.80	22.81	23
10	16QAM	50	0	22.85	22.77	22.87	
10	64QAM	1	0	22.79	22.81	22.90	
10	64QAM	1	25	22.71	22.85	22.79	23
10	64QAM	1	49	22.71	22.84	22.67	
10	64QAM	25	0	21.77	21.87	21.83	
10	64QAM	25	12	21.88	21.84	21.85	22
10	64QAM	25	25	21.74	21.80	21.81	
10	64QAM	50	0	21.88	21.80	21.76	
Channel				43115	43340	43565	
Frequency (MHz)				3552.5	3575	3597.5	
5	QPSK	1	0	24.63	24.60	24.62	25
5	QPSK	1	12	24.59	24.63	24.71	
5	QPSK	1	24	24.59	24.53	24.59	
5	QPSK	12	0	23.75	23.80	23.88	24
5	QPSK	12	7	23.86	23.80	23.87	
5	QPSK	12	13	23.72	23.86	23.86	
5	QPSK	25	0	23.82	23.82	23.86	24
5	16QAM	1	0	23.93	23.94	23.95	
5	16QAM	1	12	23.84	23.93	23.91	
5	16QAM	1	24	23.91	23.91	23.97	23
5	16QAM	12	0	22.79	22.86	22.94	
5	16QAM	12	7	22.80	22.81	22.82	
5	16QAM	12	13	22.77	22.89	22.81	23
5	16QAM	25	0	22.86	22.81	22.87	
5	64QAM	1	0	22.79	22.73	22.89	
5	64QAM	1	12	22.73	22.80	22.78	23
5	64QAM	1	24	22.76	22.79	22.70	
5	64QAM	12	0	21.84	21.88	21.85	
5	64QAM	12	7	21.82	21.89	21.93	22
5	64QAM	12	13	21.83	21.81	21.84	
5	64QAM	25	0	21.84	21.78	21.78	



Band 48									
Ant 7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	20.89	24.38	24.55	20.93		
20	QPSK	1	49	20.78	24.21	24.16	20.75	25	
20	QPSK	1	99	20.77	24.20	24.13	20.67		
20	QPSK	50	0	19.97	23.62	23.58	19.96		
20	QPSK	50	24	19.92	23.63	23.50	19.90	24	
20	QPSK	50	50	19.88	23.47	23.44	19.80		
20	QPSK	100	0	19.93	23.52	23.51	19.87		
20	16QAM	1	0	19.91	23.68	23.68	19.92	24	
20	16QAM	1	49	19.84	23.46	23.46	19.80		
20	16QAM	1	99	19.89	23.47	23.46	19.76		
20	16QAM	50	0	19.00	22.54	22.62	19.00		
20	16QAM	50	24	18.97	22.57	22.56	18.94	23	
20	16QAM	50	50	18.89	22.51	22.48	18.82		
20	16QAM	100	0	18.95	22.58	22.53	18.90		
20	64QAM	1	0	18.74	22.36	22.11	18.87		
20	64QAM	1	49	18.60	22.23	22.09	18.61	23	
20	64QAM	1	99	18.67	22.27	22.01	18.55		
20	64QAM	50	0	17.99	21.56	21.43	17.99		
20	64QAM	50	24	17.86	21.59	21.46	17.94	22	
20	64QAM	50	50	17.90	21.52	21.35	17.82		
20	64QAM	100	0	17.95	21.57	21.36	17.91		
Channel				55315	55820	56160	56665		
Frequency (MHz)				35575	3603	3642	36925		
15	QPSK	1	0	20.82	24.38	24.36	20.87		
15	QPSK	1	37	20.76	24.16	24.10	20.75	25	
15	QPSK	1	74	20.75	24.20	24.08	20.65		
15	QPSK	36	0	19.91	23.60	23.48	19.87		
15	QPSK	36	20	19.87	23.45	23.43	19.86	24	
15	QPSK	36	39	19.78	23.42	23.40	19.71		
15	QPSK	75	0	19.87	23.43	23.41	19.80		
15	16QAM	1	0	19.96	23.61	23.60	19.96	24	
15	16QAM	1	37	19.76	23.44	23.42	19.70		
15	16QAM	1	74	19.80	23.44	23.45	19.71		
15	16QAM	36	0	18.98	22.47	22.60	18.99	23	
15	16QAM	36	20	18.96	22.56	22.46	18.89		
15	16QAM	36	39	18.81	22.49	22.39	18.72		
15	16QAM	75	0	18.88	22.61	22.48	18.84		
15	64QAM	1	0	18.73	22.28	22.07	18.82		
15	64QAM	1	37	18.55	22.19	22.00	18.57	23	
15	64QAM	1	74	18.57	22.19	21.93	18.47		
15	64QAM	36	0	17.82	21.53	21.41	17.89		
15	64QAM	36	20	17.88	21.52	21.37	17.90	22	
15	64QAM	36	39	17.83	21.48	21.30	17.72		
15	64QAM	75	0	17.95	21.48	21.33	17.83		
Channel				55290	55615	56165	56690		
Frequency (MHz)				35525	36075	36425	3695		
10	QPSK	1	0	20.81	24.30	24.32	20.92		
10	QPSK	1	25	20.76	24.18	24.14	20.70	25	
10	QPSK	1	49	20.72	24.16	24.12	20.66		
10	QPSK	25	0	19.90	23.61	23.58	19.89		
10	QPSK	25	12	19.90	23.46	23.48	19.88	24	
10	QPSK	25	25	19.87	23.48	23.38	19.72		
10	QPSK	50	0	19.91	23.42	23.51	19.84		
10	16QAM	1	0	19.94	23.69	23.66	19.96		
10	16QAM	1	25	19.83	23.44	23.40	19.72	24	
10	16QAM	1	49	19.89	23.46	23.45	19.74		
10	16QAM	25	0	18.94	22.53	22.59	18.90		
10	16QAM	25	12	18.87	22.57	22.54	18.88	23	
10	16QAM	25	25	18.84	22.61	22.40	18.80		
10	16QAM	50	0	18.92	22.55	22.50	18.82		
10	64QAM	1	0	18.67	22.31	22.05	18.82		
10	64QAM	1	25	18.60	22.22	22.06	18.60	23	
10	64QAM	1	49	18.61	22.26	21.99	18.47		
10	64QAM	25	0	17.95	21.60	21.33	17.89		
10	64QAM	25	12	17.92	21.54	21.43	17.84	22	
10	64QAM	25	25	17.89	21.42	21.25	17.77		
10	64QAM	50	0	17.87	21.56	21.36	17.81		
Channel				55265	55610	56170	56715		
Frequency (MHz)				35525	3607	3643	36975		
5	QPSK	1	0	20.81	24.33	24.39	20.92		
5	QPSK	1	12	20.72	24.19	24.13	20.67	25	
5	QPSK	1	24	20.76	24.20	24.10	20.61		
5	QPSK	12	0	19.94	23.52	23.54	19.92		
5	QPSK	12	7	19.87	23.48	23.40	19.84	24	
5	QPSK	12	13	19.83	23.41	23.43	19.71		
5	QPSK	25	0	19.88	23.50	23.43	19.77		
5	16QAM	1	0	19.99	23.66	23.67	19.91		
5	16QAM	1	12	19.90	23.36	23.40	19.80	24	
5	16QAM	1	24	19.84	23.43	23.39	19.75		
5	16QAM	12	0	18.90	22.54	22.62	18.93		
5	16QAM	12	7	18.97	22.64	22.55	18.89	23	
5	16QAM	12	13	18.83	22.41	22.48	18.75		
5	16QAM	25	0	18.92	22.54	22.48	18.87		
5	64QAM	1	0	18.73	22.28	22.03	18.77		
5	64QAM	1	12	18.60	22.15	22.01	18.52	23	
5	64QAM	1	24	18.57	22.19	21.95	18.47		
5	64QAM	12	0	18.01	21.49	21.39	17.92		
5	64QAM	12	7	17.95	21.50	21.46	17.94	22	
5	64QAM	12	13	17.83	21.42	21.30	17.75		
5	64QAM	25	0	17.98	21.53	21.33	17.91		



Band 38									
Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)		
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq			
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610			
20	QPSK	1	0	24.93	24.94	24.98	25		
20	QPSK	1	49	24.99	24.91	24.93			
20	QPSK	1	99	24.94	24.97	24.96			
20	QPSK	50	0	23.94	23.99	23.99	24		
20	QPSK	50	24	23.99	23.92	23.92			
20	QPSK	50	50	23.88	23.84	23.82			
20	QPSK	100	0	23.89	23.88	23.82	24		
20	16QAM	1	0	23.83	23.86	23.86			
20	16QAM	1	49	23.86	23.87	23.80			
20	16QAM	1	99	23.82	23.83	23.83	23		
20	16QAM	50	0	22.86	22.81	22.81			
20	16QAM	50	24	22.89	22.86	22.83			
20	16QAM	50	50	22.80	22.86	22.80	23		
20	16QAM	100	0	22.88	22.83	22.82			
20	64QAM	1	0	22.80	22.81	22.81			
20	64QAM	1	49	22.79	22.81	22.83	23		
20	64QAM	1	99	22.85	22.80	22.79			
20	64QAM	50	0	21.89	21.80	21.91			
20	64QAM	50	24	21.90	21.76	21.84	22		
20	64QAM	50	50	21.81	21.88	21.85			
20	64QAM	100	0	21.89	21.84	21.82			
Channel				37825	38000	38175			
Frequency (MHz)				2577.5	2595	2612.5			
15	QPSK	1	0	24.91	24.94	24.97	25		
15	QPSK	1	37	24.90	24.82	24.91			
15	QPSK	1	74	24.91	24.97	24.96			
15	QPSK	36	0	23.84	23.97	23.92	24		
15	QPSK	36	20	23.96	23.87	23.83			
15	QPSK	36	39	23.79	23.80	23.72			
15	QPSK	75	0	23.81	23.87	23.78	24		
15	16QAM	1	0	23.74	23.83	23.81			
15	16QAM	1	37	23.86	23.81	23.71			
15	16QAM	1	74	23.72	23.73	23.77	23		
15	16QAM	36	0	22.85	22.77	22.80			
15	16QAM	36	20	22.81	22.86	22.79			
15	16QAM	36	39	22.75	22.85	22.76	23		
15	16QAM	75	0	22.85	22.74	22.79			
15	64QAM	1	0	22.71	22.80	22.73			
15	64QAM	1	37	22.71	22.79	22.79	23		
15	64QAM	1	74	22.85	22.70	22.75			
15	64QAM	36	0	21.80	21.78	21.89			
15	64QAM	36	20	21.87	21.70	21.80	22		
15	64QAM	36	39	21.77	21.82	21.83			
15	64QAM	75	0	21.89	21.84	21.79			
Channel				37800	38000	38200			
Frequency (MHz)				2575	2595	2615			
10	QPSK	1	0	24.82	24.89	24.91	25		
10	QPSK	1	25	24.90	24.90	24.83			
10	QPSK	1	49	24.91	24.97	24.87			
10	QPSK	25	0	23.90	23.97	23.99	24		
10	QPSK	25	12	23.95	23.89	23.89			
10	QPSK	25	25	23.84	23.77	23.72			
10	QPSK	50	0	23.82	23.82	23.74	24		
10	16QAM	1	0	23.74	23.76	23.84			
10	16QAM	1	25	23.77	23.84	23.70			
10	16QAM	1	49	23.75	23.78	23.82	23		
10	16QAM	25	0	22.84	22.71	22.80			
10	16QAM	25	12	22.87	22.81	22.82			
10	16QAM	25	25	22.70	22.77	22.75	23		
10	16QAM	50	0	22.86	22.75	22.74			
10	64QAM	1	0	22.80	22.74	22.74			
10	64QAM	1	25	22.72	22.71	22.75	23		
10	64QAM	1	49	22.77	22.75	22.73			
10	64QAM	25	0	21.81	21.75	21.89			
10	64QAM	25	12	21.83	21.73	21.77	22		
10	64QAM	25	25	21.79	21.79	21.83			
10	64QAM	50	0	21.80	21.79	21.75			
Channel				37775	38000	38225			
Frequency (MHz)				2572.5	2595	2617.5			
5	QPSK	1	0	24.85	24.92	24.94	25		
5	QPSK	1	12	24.96	24.90	24.92			
5	QPSK	1	24	24.94	24.94	24.95			
5	QPSK	12	0	23.86	23.97	23.93	24		
5	QPSK	12	7	23.91	23.82	23.83			
5	QPSK	12	13	23.86	23.82	23.81			
5	QPSK	25	0	23.79	23.82	23.72	24		
5	16QAM	1	0	23.74	23.76	23.86			
5	16QAM	1	12	23.79	23.83	23.76			
5	16QAM	1	24	23.72	23.80	23.79	23		
5	16QAM	12	0	22.82	22.73	22.79			
5	16QAM	12	7	22.86	22.82	22.73			
5	16QAM	12	13	22.77	22.83	22.79	23		
5	16QAM	25	0	22.84	22.78	22.79			
5	64QAM	1	0	22.77	22.77	22.79			
5	64QAM	1	12	22.74	22.71	22.76	23		
5	64QAM	1	24	22.82	22.70	22.73			
5	64QAM	12	0	21.88	21.71	21.87			
5	64QAM	12	7	21.88	21.71	21.84	22		
5	64QAM	12	13	21.80	21.83	21.80			
5	64QAM	25	0	21.84	21.77	21.72			



Band 38_HPUE							
Ara 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.	
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	26.87	26.91	26.95	27.5
20	QPSK	1	49	26.62	26.98	26.99	
20	QPSK	1	99	26.90	27.01	27.00	
20	QPSK	50	0	25.73	25.85	26.11	26.5
20	QPSK	50	24	25.81	25.94	26.26	
20	QPSK	50	50	25.74	25.89	26.00	
20	QPSK	100	0	25.84	25.91	26.07	26.5
20	16QAM	1	0	26.20	26.33	26.32	
20	16QAM	1	49	25.96	26.26	26.32	
20	16QAM	1	99	25.96	26.37	26.34	25.5
20	16QAM	50	0	24.94	25.08	25.29	
20	16QAM	50	24	24.97	25.22	25.32	
20	16QAM	50	50	25.07	25.23	25.34	25.5
20	16QAM	100	0	24.92	25.04	25.16	
20	64QAM	1	0	24.31	24.35	24.44	
20	64QAM	1	49	24.04	24.31	24.74	25.5
20	64QAM	1	99	24.04	24.55	24.68	
20	64QAM	50	0	23.16	23.14	23.43	
20	64QAM	50	24	23.14	23.29	23.50	24.5
20	64QAM	50	50	23.13	23.34	23.43	
20	64QAM	100	0	23.10	23.14	23.24	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	26.82	26.82	26.94	27.5
15	QPSK	1	37	26.58	26.91	26.95	
15	QPSK	1	74	26.58	26.95	26.98	
15	QPSK	36	0	25.83	25.85	26.01	26.5
15	QPSK	36	20	25.81	25.86	26.19	
15	QPSK	36	39	25.85	25.83	25.94	
15	QPSK	75	0	25.82	25.82	26.01	26.5
15	16QAM	1	0	26.11	26.23	26.28	
15	16QAM	1	37	25.93	26.20	26.22	
15	16QAM	1	74	25.90	26.27	26.33	26.5
15	16QAM	36	0	24.90	25.06	25.27	
15	16QAM	36	20	24.90	25.13	25.27	
15	16QAM	36	39	24.97	25.15	25.29	26.5
15	16QAM	75	0	24.85	24.98	25.13	
15	64QAM	1	0	24.30	24.33	24.38	
15	64QAM	1	37	23.99	24.25	24.74	26.5
15	64QAM	1	74	24.04	24.55	24.66	
15	64QAM	36	0	23.12	23.11	23.43	
15	64QAM	36	20	23.05	23.21	23.44	24.5
15	64QAM	36	39	23.08	23.29	23.38	
15	64QAM	75	0	23.05	23.12	23.16	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	26.80	26.89	26.94	27.5
10	QPSK	1	25	26.58	26.91	26.93	
10	QPSK	1	49	26.52	27.00	26.98	
10	QPSK	25	0	25.68	25.80	26.06	26.5
10	QPSK	25	12	25.78	25.85	26.19	
10	QPSK	25	25	25.73	25.89	25.91	
10	QPSK	50	0	25.74	25.87	25.99	26.5
10	16QAM	1	0	26.13	26.30	26.25	
10	16QAM	1	25	25.86	26.19	26.23	
10	16QAM	1	49	25.90	26.32	26.31	26.5
10	16QAM	25	0	24.90	25.07	25.22	
10	16QAM	25	12	24.92	25.17	25.22	
10	16QAM	25	25	25.04	25.14	25.34	26.5
10	16QAM	50	0	24.91	24.96	25.15	
10	64QAM	1	0	24.24	24.37	24.36	
10	64QAM	1	25	23.97	24.24	24.64	26.5
10	64QAM	1	49	24.04	24.53	24.65	
10	64QAM	25	0	23.07	23.12	23.33	
10	64QAM	25	12	23.05	23.19	23.43	24.5
10	64QAM	25	25	23.12	23.31	23.35	
10	64QAM	50	0	23.10	23.10	23.24	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	26.90	26.90	26.94	27.5
5	QPSK	1	12	26.99	26.97	26.91	
5	QPSK	1	24	26.53	26.96	26.91	
5	QPSK	12	0	25.64	25.85	26.04	26.5
5	QPSK	12	7	25.77	25.90	26.20	
5	QPSK	12	13	25.71	25.86	26.00	
5	QPSK	25	0	25.78	25.83	26.04	26.5
5	16QAM	1	0	26.17	26.32	26.31	
5	16QAM	1	12	25.96	26.21	26.27	
5	16QAM	1	24	25.93	26.32	26.28	26.5
5	16QAM	12	0	24.84	25.07	25.19	
5	16QAM	12	7	24.92	25.22	25.31	
5	16QAM	12	13	24.99	25.13	25.34	26.5
5	16QAM	25	0	24.82	24.99	25.12	
5	64QAM	1	0	24.28	24.33	24.43	
5	64QAM	1	12	23.96	24.28	24.67	26.5
5	64QAM	1	24	23.95	24.49	24.64	
5	64QAM	12	0	23.06	23.09	23.41	
5	64QAM	12	7	23.10	23.22	23.41	24.5
5	64QAM	12	13	23.11	23.29	23.42	
5	64QAM	25	0	23.03	23.05	23.20	



Band 41										
Art 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Power	Power	Tune-up limit (dBm)	
				Low Ch. / Freq.	Low Middle Ch. / Freq.	Middle Ch. / Freq.	High Middle Ch. / Freq.	High Ch. / Freq.		
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	24.63	24.82	24.91	24.89	24.45	25	
20	QPSK	1	49	24.67	24.87	24.94	24.95	24.81		
20	QPSK	1	99	24.73	24.95	24.96	24.75	24.88		
20	QPSK	50	0	23.81	23.99	23.90	23.98	23.79	24	
20	QPSK	50	24	23.83	23.93	23.93	23.94	23.92		
20	QPSK	50	50	23.84	23.90	23.94	23.94	23.81		
20	QPSK	100	0	23.84	23.95	23.91	23.97	23.85	24	
20	16QAM	1	0	23.73	23.94	23.99	24.00	23.55		
20	16QAM	1	49	23.73	23.96	23.91	23.89	23.86		
20	16QAM	1	99	23.84	23.93	23.92	23.86	23.75	23	
20	16QAM	50	0	22.81	22.83	22.82	22.80	22.81		
20	16QAM	50	24	22.87	22.86	22.83	22.87	22.86		
20	16QAM	50	50	22.88	22.88	22.87	22.89	22.85	23	
20	16QAM	100	0	22.84	22.85	22.84	22.89	22.87		
20	84QAM	1	0	22.50	22.67	22.79	22.77	22.26		
20	84QAM	1	49	22.44	22.70	22.71	22.88	22.62	23	
20	84QAM	1	99	22.56	22.77	22.73	22.54	22.41		
20	84QAM	50	0	21.81	21.94	21.85	21.81	21.81		
20	84QAM	50	24	21.88	21.91	21.86	21.80	21.98	22	
20	84QAM	50	50	21.86	21.91	21.86	21.89	21.87		
20	84QAM	100	0	21.87	21.98	21.84	21.81	21.86		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	24.59	24.78	24.84	24.84	24.40	25	
15	QPSK	1	37	24.57	24.76	24.85	24.85	24.75		
15	QPSK	1	74	24.72	24.95	24.94	24.71	24.65		
15	QPSK	36	0	23.81	23.91	23.83	23.98	23.75	24	
15	QPSK	36	20	23.76	23.89	23.85	23.91	23.85		
15	QPSK	36	39	23.79	23.80	23.84	23.87	23.71		
15	QPSK	75	0	23.81	23.88	23.88	23.94	23.82	24	
15	16QAM	1	0	23.71	23.84	23.90	23.94	23.47		
15	16QAM	1	37	23.71	23.97	23.86	23.99	23.83		
15	16QAM	1	74	23.82	23.89	23.89	23.83	23.65	23	
15	16QAM	36	0	22.74	22.81	22.77	22.70	22.80		
15	16QAM	36	20	22.84	22.84	22.78	22.86	22.87		
15	16QAM	36	39	22.79	22.85	22.77	22.82	22.84	23	
15	16QAM	75	0	22.75	22.83	22.82	22.85	22.82		
15	84QAM	1	0	22.40	22.59	22.78	22.77	22.16		
15	84QAM	1	37	22.42	22.61	22.63	22.82	22.53	23	
15	84QAM	1	74	22.49	22.77	22.69	22.51	22.39		
15	84QAM	36	0	21.77	21.91	21.76	21.78	21.80		
15	84QAM	36	20	21.85	21.85	21.82	21.73	21.95	22	
15	84QAM	36	39	21.80	21.91	21.81	21.84	21.80		
15	84QAM	75	0	21.81	21.88	21.76	21.78	21.84		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	24.59	24.72	24.82	24.82	24.45	25	
10	QPSK	1	25	24.60	24.81	24.85	24.63	24.80		
10	QPSK	1	49	24.67	24.90	24.92	24.68	24.58		
10	QPSK	25	0	23.74	23.97	23.84	23.89	23.75	24	
10	QPSK	25	12	23.81	23.87	23.85	23.88	23.83		
10	QPSK	25	25	23.80	23.88	23.89	23.85	23.78		
10	QPSK	50	0	23.76	23.95	23.81	23.98	23.77	24	
10	16QAM	1	0	23.71	23.87	23.96	23.97	23.51		
10	16QAM	1	25	23.64	23.93	23.82	23.95	23.86		
10	16QAM	1	49	23.81	23.91	23.86	23.84	23.75	23	
10	16QAM	25	0	22.76	22.75	22.75	22.76	22.80		
10	16QAM	25	12	22.79	22.81	22.82	22.79	22.83		
10	16QAM	25	25	22.85	22.87	22.85	22.81	22.82	23	
10	16QAM	50	0	22.77	22.81	22.77	22.80	22.82		
10	84QAM	1	0	22.44	22.63	22.76	22.76	22.21		
10	84QAM	1	25	22.40	22.88	22.64	22.86	22.54	23	
10	84QAM	1	49	22.51	22.70	22.63	22.50	22.31		
10	84QAM	25	0	21.75	21.87	21.78	21.77	21.79		
10	84QAM	25	12	21.82	21.90	21.79	21.78	21.88	22	
10	84QAM	25	25	21.80	21.83	21.80	21.81	21.86		
10	84QAM	50	0	21.79	21.86	21.83	21.79	21.78		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	
Frequency (MHz)				2483.5	2533.5	2593	2643.0	2697.5		
5	QPSK	1	0	24.51	24.80	24.90	24.84	24.38	25	
5	QPSK	1	12	24.60	24.85	24.87	24.89	24.79		
5	QPSK	1	24	24.71	24.94	24.96	24.71	24.65		
5	QPSK	12	0	23.77	23.92	23.85	23.97	23.74	24	
5	QPSK	12	7	23.80	23.93	23.90	23.87	23.82		
5	QPSK	12	13	23.81	23.94	23.93	23.87	23.71		
5	QPSK	25	0	23.82	23.91	23.81	23.90	23.79	24	
5	16QAM	1	0	23.73	23.92	23.93	23.95	23.47		
5	16QAM	1	12	23.73	23.96	23.85	23.97	23.84		
5	16QAM	1	24	23.82	23.91	23.86	23.82	23.71	23	
5	16QAM	12	0	22.71	22.76	22.75	22.72	22.73		
5	16QAM	12	7	22.87	22.76	22.81	22.83	22.84		
5	16QAM	12	13	22.88	22.83	22.79	22.79	22.84	23	
5	16QAM	25	0	22.76	22.81	22.74	22.85	22.85		
5	84QAM	1	0	22.41	22.67	22.75	22.73	22.17		
5	84QAM	1	12	22.41	22.65	22.69	22.85	22.54	23	
5	84QAM	1	24	22.48	22.76	22.72	22.45	22.40		
5	84QAM	12	0	21.75	21.88	21.81	21.75	21.80		
5	84QAM	12	7	21.88	21.87	21.77	21.74	21.98	22	
5	84QAM	12	13	21.76	21.88	21.77	21.84	21.84		
5	84QAM	25	0	21.87	21.96	21.80	21.77	21.79		



Band 41_HPUe										
Avt 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq.	Power Low Middle Ch./Freq.	Power Middle Ch./Freq.	Power High Middle Ch./Freq.	Power High Ch./Freq.		Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	25.82	26.05	26.68	26.59	26.20		27.5
20	QPSK	1	49	26.31	25.86	26.67	26.86	26.46		
20	QPSK	1	99	26.48	25.87	26.86	26.44	26.13		
20	QPSK	50	0	25.18	25.91	25.91	25.59	25.92		
20	QPSK	50	24	25.39	24.93	25.93	26.08	25.77		
20	QPSK	50	50	25.89	24.79	25.95	25.88	25.47		
20	QPSK	100	0	24.56	24.86	25.95	25.88	25.83		
20	16QAM	1	0	25.24	25.30	26.07	25.97	25.51		26.5
20	16QAM	1	49	25.88	25.14	26.00	26.25	25.81		
20	16QAM	1	99	25.80	25.03	26.06	25.77	25.50		
20	16QAM	50	0	24.35	24.12	24.93	25.01	24.65		
20	16QAM	50	24	24.68	24.08	24.96	25.11	24.79		
20	16QAM	50	50	24.74	23.98	24.98	24.89	24.66		
20	16QAM	100	0	24.22	23.92	24.95	24.91	24.70		
20	84QAM	1	0	23.58	23.66	24.29	24.63	24.10		25.5
20	84QAM	1	49	23.58	23.60	24.45	25.12	23.82		
20	84QAM	1	99	24.03	23.66	24.09	24.62	23.50		
20	84QAM	50	0	22.56	22.52	23.29	24.04	23.14		
20	84QAM	50	24	22.67	22.54	23.35	24.12	23.03		
20	84QAM	50	50	22.80	22.59	23.42	23.90	22.78		
20	84QAM	100	0	22.55	22.94	23.35	23.92	22.93		
Channel				39725	40173	40620	41068	41515		Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	25.88	25.95	26.64	26.49	26.14		27.5
15	QPSK	1	37	26.21	26.90	26.62	26.79	26.44		
15	QPSK	1	74	26.44	25.77	26.65	26.42	26.07		
15	QPSK	36	0	25.18	24.91	25.82	25.90	25.60		
15	QPSK	36	20	25.35	24.83	25.88	26.03	25.67		
15	QPSK	36	39	25.86	24.72	25.87	25.78	25.37		
15	QPSK	75	0	24.51	24.80	25.88	25.86	25.55		
15	16QAM	1	0	25.24	25.21	26.05	25.97	25.50		26.5
15	16QAM	1	37	25.86	25.08	25.99	26.15	25.81		
15	16QAM	1	74	25.73	24.96	26.05	25.76	25.50		
15	16QAM	36	0	24.29	24.06	24.84	24.97	24.56		
15	16QAM	36	20	24.62	24.08	24.86	25.04	24.73		
15	16QAM	36	39	24.70	23.89	24.93	24.89	24.64		
15	16QAM	75	0	24.17	23.82	24.87	24.82	24.61		
15	84QAM	1	0	23.55	23.96	24.25	24.79	24.07		25.5
15	84QAM	1	37	23.58	23.60	24.41	25.03	23.75		
15	84QAM	1	74	24.00	23.61	24.08	24.55	23.49		
15	84QAM	36	0	22.56	22.48	23.23	23.99	23.10		
15	84QAM	36	20	22.85	22.47	23.34	24.11	23.02		
15	84QAM	36	39	22.84	22.58	23.32	23.88	22.78		
15	84QAM	75	0	22.53	22.51	23.26	23.85	22.90		
Channel				39700	40160	40620	41080	41540		Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	25.82	26.03	26.58	26.55	26.10		27.5
10	QPSK	1	25	26.21	25.77	26.66	26.80	26.39		
10	QPSK	1	49	26.46	25.83	26.64	26.34	26.09		
10	QPSK	25	0	25.14	24.99	25.81	25.95	25.62		
10	QPSK	25	12	25.33	24.85	25.85	26.05	25.75		
10	QPSK	25	25	25.59	24.78	25.94	25.80	25.45		
10	QPSK	50	0	24.56	24.77	25.86	25.92	25.54		26.5
10	16QAM	1	0	25.15	25.22	25.99	25.94	25.44		
10	16QAM	1	25	25.68	25.08	25.99	26.20	25.81		
10	16QAM	1	49	25.75	25.00	25.99	25.75	25.48		
10	16QAM	25	0	24.26	24.04	24.83	24.92	24.61		
10	16QAM	25	12	24.68	24.00	24.91	25.10	24.74		
10	16QAM	25	25	24.72	23.97	24.98	24.81	24.61		
10	16QAM	50	0	24.21	23.82	24.95	24.62	24.61		
10	84QAM	1	0	23.54	23.61	24.26	24.75	24.02		25.5
10	84QAM	1	25	23.50	23.56	24.35	25.10	23.76		
10	84QAM	1	49	24.03	23.56	24.05	24.62	23.41		
10	84QAM	25	0	22.50	22.50	23.28	24.01	23.13		
10	84QAM	25	12	22.83	22.46	23.29	24.10	22.99		
10	84QAM	25	25	22.87	22.49	23.34	23.87	22.71		
10	84QAM	50	0	22.46	22.53	23.27	23.89	22.84		
Channel				39675	40148	40620	41093	41565		Tune-up limit (dBm)
Frequency (MHz)				2498.5	2543.3	2593	2639.50	2697.3		
5	QPSK	1	0	25.82	25.95	26.66	26.59	26.19		27.5
5	QPSK	1	12	26.27	25.76	26.61	26.83	26.45		
5	QPSK	1	24	26.38	25.79	26.60	26.41	26.04		
5	QPSK	12	0	25.17	25.00	25.91	25.97	25.60		
5	QPSK	12	7	25.33	24.91	25.87	26.06	25.72		
5	QPSK	12	13	25.85	24.78	25.95	25.83	25.41		
5	QPSK	25	0	24.94	24.77	25.94	25.87	25.59		
5	16QAM	1	0	25.19	25.24	26.05	25.89	25.45		26.5
5	16QAM	1	12	25.68	25.06	25.92	26.15	25.75		
5	16QAM	1	24	25.72	24.96	25.99	25.71	25.49		
5	16QAM	12	0	24.28	24.10	24.92	24.99	24.58		
5	16QAM	12	7	24.64	24.06	24.87	25.06	24.76		
5	16QAM	12	13	24.84	23.96	24.94	24.79	24.62		
5	16QAM	25	0	24.16	23.90	24.91	24.88	24.68		
5	84QAM	1	0	23.48	23.80	24.24	24.80	24.04		25.5
5	84QAM	1	12	23.54	23.56	24.37	25.11	23.77		
5	84QAM	1	24	24.00	23.56	24.09	24.61	23.46		
5	84QAM	12	0	22.49	22.43	23.21	23.99	23.08		
5	84QAM	12	7	22.69	22.44	23.33	24.04	22.99		
5	84QAM	12	13	22.80	22.53	23.37	23.83	22.72		
5	84QAM	25	0	22.52	22.54	23.29	23.92	22.93		



Band 42							
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				43190	43340	43490	
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	22.94	23.03	23.03	23.5
20	QPSK	1	49	22.98	23.01	23.06	
20	QPSK	1	99	22.89	22.94	22.97	
20	QPSK	50	0	22.03	22.08	22.12	22.5
20	QPSK	50	24	22.08	22.04	22.08	
20	QPSK	50	50	22.03	22.06	22.08	
20	QPSK	100	0	22.07	22.02	22.07	22.5
20	16QAM	1	0	22.09	22.11	22.17	
20	16QAM	1	49	22.04	22.08	22.12	
20	16QAM	1	99	22.00	22.04	22.07	21.5
20	16QAM	50	0	21.04	21.09	21.14	
20	16QAM	50	24	21.10	21.07	21.10	
20	16QAM	50	50	21.04	21.09	21.10	21.5
20	16QAM	100	0	21.07	21.03	21.09	
20	64QAM	1	0	20.70	20.81	20.75	
20	64QAM	1	49	20.75	20.84	20.66	21.5
20	64QAM	1	99	20.79	20.79	20.56	
20	64QAM	50	0	20.06	20.11	20.02	
20	64QAM	50	24	20.11	20.08	20.06	20.5
20	64QAM	50	50	20.05	20.08	19.85	
20	64QAM	100	0	20.09	20.03	19.94	
Channel				43165	43340	43515	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3575	3592.5	
15	QPSK	1	0	22.85	22.94	22.94	23.5
15	QPSK	1	37	22.96	22.95	22.96	
15	QPSK	1	74	22.89	22.89	22.87	
15	QPSK	36	0	21.99	21.99	22.10	22.5
15	QPSK	36	20	21.98	21.97	22.04	
15	QPSK	36	39	22.00	22.04	22.05	
15	QPSK	75	0	22.01	22.00	21.98	22.5
15	16QAM	1	0	22.04	22.05	22.13	
15	16QAM	1	37	21.95	22.05	22.11	
15	16QAM	1	74	21.94	21.99	22.01	21.5
15	16QAM	36	0	20.99	21.07	21.12	
15	16QAM	36	20	21.08	20.97	21.06	
15	16QAM	36	39	20.97	21.01	21.07	21.5
15	16QAM	75	0	21.02	21.00	21.01	
15	64QAM	1	0	20.61	20.78	20.73	
15	64QAM	1	37	20.65	20.76	20.63	21.5
15	64QAM	1	74	20.79	20.75	20.48	
15	64QAM	36	0	20.03	20.03	19.92	
15	64QAM	36	20	20.05	20.08	20.03	20.5
15	64QAM	36	39	20.00	20.00	19.86	
15	64QAM	75	0	20.05	20.01	19.92	
Channel				43140	43340	43540	Tune-up limit (dBm)
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	22.92	22.95	22.96	23.5
10	QPSK	1	25	22.93	22.83	23.05	
10	QPSK	1	49	22.80	22.87	22.94	
10	QPSK	25	0	21.96	22.02	22.09	22.5
10	QPSK	25	12	22.08	21.96	22.05	
10	QPSK	25	25	21.99	21.96	22.05	
10	QPSK	50	0	21.98	21.95	22.02	22.5
10	16QAM	1	0	22.01	22.02	22.10	
10	16QAM	1	25	21.99	22.06	22.10	
10	16QAM	1	49	21.96	21.98	21.98	21.5
10	16QAM	25	0	20.94	21.07	21.07	
10	16QAM	25	12	21.03	20.99	21.05	
10	16QAM	25	25	20.97	21.02	21.06	21.5
10	16QAM	50	0	21.05	20.94	20.99	
10	64QAM	1	0	20.70	20.79	20.67	
10	64QAM	1	25	20.73	20.76	20.58	21.5
10	64QAM	1	49	20.79	20.69	20.52	
10	64QAM	25	0	19.99	20.06	20.00	
10	64QAM	25	12	20.10	20.05	20.05	20.5
10	64QAM	25	25	19.98	20.02	19.89	
10	64QAM	50	0	20.09	19.94	19.89	
Channel				43115	43340	43565	Tune-up limit (dBm)
Frequency (MHz)				3522.5	3575	3597.5	
5	QPSK	1	0	22.92	23.01	22.97	23.5
5	QPSK	1	12	22.90	23.00	22.96	
5	QPSK	1	24	22.83	22.92	22.96	
5	QPSK	12	0	22.00	21.99	22.04	22.5
5	QPSK	12	7	22.05	22.00	22.01	
5	QPSK	12	13	21.99	21.96	22.02	
5	QPSK	25	0	22.03	21.93	22.02	22.5
5	16QAM	1	0	22.05	22.02	22.15	
5	16QAM	1	12	21.98	22.03	22.06	
5	16QAM	1	24	21.90	21.95	22.06	21.5
5	16QAM	12	0	21.04	21.02	21.09	
5	16QAM	12	7	21.05	21.00	21.04	
5	16QAM	12	13	20.98	21.05	21.10	21.5
5	16QAM	25	0	20.98	20.96	21.03	
5	64QAM	1	0	20.81	20.80	20.72	
5	64QAM	1	12	20.71	20.75	20.66	21.5
5	64QAM	1	24	20.75	20.72	20.52	
5	64QAM	12	0	19.96	20.02	19.99	
5	64QAM	12	7	20.05	20.00	19.98	20.5
5	64QAM	12	13	20.00	19.98	19.90	
5	64QAM	25	0	20.02	19.94	19.93	



Band 48										
Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.			Tune-up limit (dBm)
Channel				55340	55830	56150	56640			
Frequency (MHz)				3560	3609	3641	3690			
20	QPSK	1	0	19.66	23.27	23.37	19.53			23.5
20	QPSK	1	49	19.47	23.06	23.02	19.31			
20	QPSK	51	99	19.50	23.04	22.96	19.22			
20	QPSK	50	0	18.70	22.22	22.33	18.51			22.5
20	QPSK	50	24	18.68	22.25	22.18	18.45			
20	QPSK	50	50	18.61	22.18	22.09	18.34			
20	QPSK	100	0	18.85	22.24	22.17	18.44			22.5
20	16QAM	1	0	18.74	22.39	22.38	18.67			
20	16QAM	1	49	18.57	22.18	22.11	18.36			
20	16QAM	1	99	18.63	22.16	22.05	18.30			21.5
20	16QAM	50	0	17.74	21.24	21.26	17.57			
20	16QAM	50	24	17.72	21.27	21.20	17.46			
20	16QAM	50	50	17.65	21.20	21.12	17.40			21.5
20	16QAM	100	0	17.68	21.24	21.20	17.46			
20	64QAM	1	0	17.45	21.36	20.77	17.44			
20	64QAM	1	49	17.38	20.91	20.75	17.13			21.5
20	64QAM	1	99	17.39	20.93	20.67	17.09			
20	64QAM	50	0	18.74	20.25	20.09	16.54			
20	64QAM	50	24	18.70	20.26	20.10	16.48			20.5
20	64QAM	50	50	18.64	20.19	19.99	16.38			
20	64QAM	100	0	18.69	20.27	20.03	16.47			
Channel				55315	55820	56160	56665			Tune-up limit (dBm)
Frequency (MHz)				3657.5	3668	3642	3692.5			
15	QPSK	1	0	19.62	23.17	23.26	19.50			23.5
15	QPSK	1	37	19.41	23.02	23.02	19.27			
15	QPSK	1	74	19.47	22.94	22.96	19.20			
15	QPSK	36	0	18.68	22.21	22.20	18.48			22.5
15	QPSK	36	20	18.58	22.21	22.16	18.40			
15	QPSK	36	39	18.58	22.14	22.09	18.28			
15	QPSK	75	0	18.55	22.15	22.08	18.43			22.5
15	16QAM	1	0	18.64	22.30	22.36	18.59			
15	16QAM	1	37	18.55	22.17	22.05	18.33			
15	16QAM	1	74	18.56	22.10	21.96	18.20			21.5
15	16QAM	36	0	17.67	21.22	21.26	17.47			
15	16QAM	36	20	17.72	21.18	21.17	17.46			
15	16QAM	36	39	17.57	21.15	21.09	17.39			21.5
15	16QAM	75	0	17.62	21.20	21.11	17.38			
15	64QAM	1	0	17.38	20.98	20.68	17.35			
15	64QAM	1	37	17.28	20.86	20.72	17.10			21.5
15	64QAM	1	74	17.36	20.83	20.66	17.00			
15	64QAM	36	0	18.71	20.20	20.00	16.44			
15	64QAM	36	20	18.68	20.23	20.03	16.38			20.5
15	64QAM	36	39	18.62	20.13	19.91	16.36			
15	64QAM	75	0	16.69	20.25	20.03	16.47			
Channel				55290	55815	56165	56690			Tune-up limit (dBm)
Frequency (MHz)				3556	3607.5	3642.5	3695			
10	QPSK	1	0	19.64	23.22	23.18	19.43			23.5
10	QPSK	1	25	19.46	23.05	22.97	19.21			
10	QPSK	1	49	19.42	23.01	22.86	19.21			
10	QPSK	25	0	18.60	22.20	22.19	18.48			22.5
10	QPSK	25	12	18.58	22.21	22.11	18.38			
10	QPSK	25	25	18.60	22.18	22.04	18.30			
10	QPSK	50	0	18.55	22.17	22.07	18.38			22.5
10	16QAM	1	0	18.73	22.31	22.33	18.61			
10	16QAM	1	25	18.54	22.17	22.02	18.34			
10	16QAM	1	49	18.62	22.09	21.98	18.28			21.5
10	16QAM	25	0	17.66	21.19	21.24	17.48			
10	16QAM	25	12	17.64	21.24	21.11	17.36			
10	16QAM	25	25	17.60	21.16	21.03	17.35			21.5
10	16QAM	50	0	17.63	21.18	21.14	17.46			
10	64QAM	1	0	17.38	21.02	20.74	17.39			
10	64QAM	1	25	17.27	20.89	20.75	17.08			21.5
10	64QAM	1	49	17.32	20.92	20.62	17.05			
10	64QAM	25	0	16.69	20.20	20.09	16.47			
10	64QAM	25	12	16.70	20.20	20.07	16.41			20.5
10	64QAM	25	25	16.60	20.18	19.95	16.29			
10	64QAM	50	0	16.67	20.19	20.01	16.41			
Channel				55265	55810	56170	56715			Tune-up limit (dBm)
Frequency (MHz)				3592.5	3607	3643	3697.5			
5	QPSK	1	0	19.55	23.20	23.23	19.52			23.5
5	QPSK	1	12	19.40	22.99	23.01	19.22			
5	QPSK	1	24	19.50	22.96	22.96	19.17			
5	QPSK	12	0	18.62	22.19	22.17	18.48			22.5
5	QPSK	12	7	18.68	22.15	22.13	18.40			
5	QPSK	12	13	18.56	22.10	22.09	18.31			
5	QPSK	25	0	18.62	22.15	22.15	18.37			22.5
5	16QAM	1	0	18.73	22.37	22.31	18.62			
5	16QAM	1	12	18.56	22.16	22.05	18.35			
5	16QAM	1	24	18.63	22.15	21.98	18.23			21.5
5	16QAM	12	0	17.67	21.14	21.16	17.52			
5	16QAM	12	7	17.71	21.26	21.13	17.36			
5	16QAM	12	13	17.60	21.13	21.06	17.35			21.5
5	16QAM	25	0	17.61	21.15	21.10	17.41			
5	64QAM	1	0	17.43	21.01	20.67	17.37			
5	64QAM	1	12	17.31	20.86	20.73	17.08			21.5
5	64QAM	1	24	17.33	20.87	20.64	17.03			
5	64QAM	12	0	16.68	20.17	20.03	16.48			
5	64QAM	12	7	16.65	20.24	20.10	16.45			20.5
5	64QAM	12	13	16.55	20.13	19.89	16.35			
5	64QAM	25	0	16.59	20.19	19.97	16.40			



Band 38							
Ann 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				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.41	23.19	23.16	24.2
20	QPSK	1	49	23.34	23.15	23.14	
20	QPSK	1	99	23.26	23.17	23.13	
20	QPSK	50	0	23.26	23.01	23.05	24
20	QPSK	50	24	23.23	23.08	23.03	
20	QPSK	50	50	23.22	23.07	23.17	
20	QPSK	100	0	23.34	23.18	23.14	24
20	16QAM	1	0	23.38	23.16	23.21	
20	16QAM	1	49	23.34	23.09	23.03	
20	16QAM	1	99	23.25	23.17	23.21	23
20	16QAM	50	0	22.80	22.42	22.29	
20	16QAM	50	24	22.54	22.34	22.30	
20	16QAM	50	50	22.50	22.35	22.36	23
20	16QAM	100	0	22.47	22.38	22.34	
20	64QAM	1	0	22.26	22.02	22.04	
20	64QAM	1	49	22.26	22.06	22.02	23
20	64QAM	1	99	22.20	22.08	22.17	
20	64QAM	50	0	21.66	21.48	21.32	
20	64QAM	50	24	21.57	21.39	21.29	22
20	64QAM	50	50	21.46	21.36	21.36	
20	64QAM	100	0	21.51	21.37	21.27	
Channel				37825	38000	38175	
Frequency (MHz)				2377.5	2395	2372.5	
15	QPSK	1	0	23.41	23.23	23.20	24.2
15	QPSK	1	37	23.33	23.09	23.11	
15	QPSK	1	74	23.30	23.11	23.06	
15	QPSK	36	0	23.26	23.02	23.12	24
15	QPSK	36	20	23.20	23.06	23.01	
15	QPSK	36	36	23.16	23.00	23.15	
15	QPSK	75	0	23.33	23.09	23.05	24
15	16QAM	1	0	23.37	23.18	23.23	
15	16QAM	1	37	23.34	23.15	23.07	
15	16QAM	1	74	23.22	23.19	23.19	23
15	16QAM	36	0	22.60	22.38	22.27	
15	16QAM	36	20	22.52	22.41	22.36	
15	16QAM	36	36	22.46	22.40	22.38	23
15	16QAM	75	0	22.47	22.40	22.28	
15	64QAM	1	0	22.25	22.03	22.09	
15	64QAM	1	37	22.23	22.05	22.09	23
15	64QAM	1	74	22.17	22.06	22.11	
15	64QAM	36	0	21.59	21.48	21.34	
15	64QAM	36	20	21.57	21.35	21.32	22
15	64QAM	36	36	21.56	21.33	21.45	
15	64QAM	75	0	21.47	21.41	21.36	
Channel				37800	38000	38200	
Frequency (MHz)				2572	2595	2615	
10	QPSK	1	0	23.34	23.20	23.24	24.2
10	QPSK	1	25	23.28	23.15	23.14	
10	QPSK	1	49	23.27	23.15	23.07	
10	QPSK	25	0	23.24	23.05	23.12	24
10	QPSK	25	12	23.26	23.07	23.02	
10	QPSK	25	25	23.12	23.08	23.11	
10	QPSK	50	0	23.26	23.18	23.11	24
10	16QAM	1	0	23.28	23.19	23.15	
10	16QAM	1	25	23.24	23.19	23.08	
10	16QAM	1	49	23.23	23.17	23.23	23
10	16QAM	25	0	22.62	22.45	22.33	
10	16QAM	25	12	22.51	22.37	22.36	
10	16QAM	25	25	22.53	22.35	22.41	23
10	16QAM	50	0	22.53	22.32	22.26	
10	64QAM	1	0	22.28	22.05	22.07	
10	64QAM	1	25	22.20	22.02	22.02	23
10	64QAM	1	49	22.12	22.01	22.17	
10	64QAM	25	0	21.65	21.44	21.34	
10	64QAM	25	12	21.51	21.34	21.32	22
10	64QAM	25	25	21.49	21.32	21.46	
10	64QAM	50	0	21.55	21.37	21.29	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.39	23.25	23.22	24.2
5	QPSK	1	12	23.25	23.09	23.14	
5	QPSK	1	24	23.23	23.15	23.12	
5	QPSK	12	0	23.17	23.02	23.12	24
5	QPSK	12	7	23.20	23.08	23.06	
5	QPSK	12	13	23.18	23.07	23.18	
5	QPSK	25	0	23.25	23.15	23.10	24
5	16QAM	1	0	23.35	23.11	23.23	
5	16QAM	1	12	23.27	23.17	23.09	
5	16QAM	1	24	23.32	23.21	23.17	23
5	16QAM	12	0	22.56	22.38	22.28	
5	16QAM	12	7	22.47	22.37	22.34	
5	16QAM	12	13	22.49	22.35	22.40	23
5	16QAM	25	0	22.51	22.34	22.26	
5	64QAM	1	0	22.23	22.01	22.05	
5	64QAM	1	12	22.19	22.03	22.03	23
5	64QAM	1	24	22.21	22.02	22.09	
5	64QAM	12	0	21.62	21.40	21.28	
5	64QAM	12	7	21.49	21.44	21.35	22
5	64QAM	12	13	21.55	21.33	21.45	
5	64QAM	25	0	21.56	21.38	21.35	



Band 38_HPUE							
Art 2							
Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	25.72	25.69	25.44	25.8
20	QPSK	1	49	25.87	25.61	25.67	
20	QPSK	1	99	25.82	25.68	25.26	
20	QPSK	50	0	25.55	25.16	24.79	25.8
20	QPSK	50	24	25.18	25.09	24.72	
20	QPSK	50	50	25.16	25.07	24.53	
20	QPSK	100	0	23.71	23.06	24.63	25.8
20	16QAM	1	0	25.41	25.24	24.65	
20	16QAM	1	49	25.33	25.21	25.07	
20	16QAM	1	99	25.36	25.14	24.63	25.5
20	16QAM	50	0	24.34	24.15	23.96	
20	16QAM	50	24	24.30	24.06	23.97	
20	16QAM	50	50	24.19	24.05	23.88	25.5
20	16QAM	100	0	23.74	24.03	23.78	
20	64QAM	1	0	23.54	23.80	23.77	
20	64QAM	1	49	23.88	23.81	23.72	25.5
20	64QAM	1	99	23.94	23.99	23.76	
20	64QAM	50	0	22.76	22.73	22.70	
20	64QAM	50	24	22.96	22.83	22.73	24.5
20	64QAM	50	50	22.98	22.93	22.75	
20	64QAM	100	0	22.77	22.69	22.70	
Channel				37825	38000	38175	
Frequency (MHz)				2377.5	2395	2412.5	
15	QPSK	1	0	25.69	25.66	25.47	25.8
15	QPSK	1	37	25.80	25.61	25.67	
15	QPSK	1	74	25.57	25.61	25.28	
15	QPSK	36	0	25.58	25.08	24.79	25.8
15	QPSK	36	20	25.21	25.10	24.71	
15	QPSK	36	39	25.19	25.03	24.52	
15	QPSK	75	0	23.74	23.06	24.68	25.8
15	16QAM	1	0	25.42	25.24	24.65	
15	16QAM	1	37	25.34	25.20	25.08	
15	16QAM	1	74	25.32	25.19	24.60	25.5
15	16QAM	36	0	24.29	24.10	24.05	
15	16QAM	36	20	24.30	24.10	23.96	
15	16QAM	36	39	24.22	24.12	23.97	25.5
15	16QAM	75	0	23.75	24.07	23.76	
15	64QAM	1	0	23.60	23.83	23.72	
15	64QAM	1	37	23.87	23.83	23.75	25.5
15	64QAM	1	74	23.99	23.98	23.71	
15	64QAM	36	0	22.78	22.67	22.69	
15	64QAM	36	20	22.94	22.81	22.70	24.5
15	64QAM	36	39	23.06	22.93	22.77	
15	64QAM	75	0	22.77	22.71	22.75	
Channel				37800	38000	38200	
Frequency (MHz)				2375	2395	2415	
10	QPSK	1	0	25.66	25.65	25.48	25.8
10	QPSK	1	25	25.69	25.69	25.68	
10	QPSK	1	49	25.60	25.63	25.32	
10	QPSK	25	0	25.60	25.16	24.84	25.8
10	QPSK	25	12	25.23	25.03	24.77	
10	QPSK	25	25	25.22	25.04	24.52	
10	QPSK	50	0	23.70	25.06	24.59	25.8
10	16QAM	1	0	25.35	25.26	24.79	
10	16QAM	1	25	25.37	25.24	25.10	
10	16QAM	1	49	25.33	25.22	24.64	25.5
10	16QAM	25	0	24.31	24.15	24.00	
10	16QAM	25	12	24.22	24.05	23.98	
10	16QAM	25	25	24.25	24.11	23.93	25.5
10	16QAM	50	0	23.74	24.06	23.81	
10	64QAM	1	0	23.52	23.84	23.73	
10	64QAM	1	25	23.62	23.83	23.74	25.5
10	64QAM	1	49	24.03	24.04	23.75	
10	64QAM	25	0	22.77	22.69	22.74	
10	64QAM	25	12	22.96	22.83	22.76	24.5
10	64QAM	25	25	23.05	22.87	22.72	
10	64QAM	50	0	22.76	22.72	22.70	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	25.65	25.69	25.45	25.8
5	QPSK	1	12	25.66	25.71	25.71	
5	QPSK	1	24	25.55	25.68	25.25	
5	QPSK	12	0	25.60	25.13	24.78	25.8
5	QPSK	12	7	25.18	25.10	24.79	
5	QPSK	12	13	25.21	25.07	24.55	
5	QPSK	25	0	23.76	25.10	24.65	25.8
5	16QAM	1	0	25.35	25.26	24.78	
5	16QAM	1	12	25.37	25.28	25.03	
5	16QAM	1	24	25.36	25.14	24.68	25.5
5	16QAM	12	0	24.32	24.15	24.03	
5	16QAM	12	7	24.24	24.12	23.96	
5	16QAM	12	13	24.21	24.03	23.89	25.5
5	16QAM	25	0	23.73	24.05	23.73	
5	64QAM	1	0	23.60	23.86	23.73	
5	64QAM	1	12	23.87	23.89	23.72	25.5
5	64QAM	1	24	24.01	23.96	23.67	
5	64QAM	12	0	22.78	22.75	22.70	
5	64QAM	12	7	22.99	22.76	22.70	24.5
5	64QAM	12	13	23.05	22.93	22.73	
5	64QAM	25	0	22.79	22.75	22.73	



Band 41										
Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.		Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.41	23.25	23.24	23.14	23.15		24.2
20	QPSK	1	49	23.34	23.19	23.15	23.05	23.13		
20	QPSK	1	99	23.33	23.17	23.13	23.04	23.03		
20	QPSK	50	0	23.27	23.07	23.13	23.09	23.13		
20	QPSK	50	24	23.26	23.09	23.07	23.05	23.02		24
20	QPSK	50	50	23.22	23.08	23.18	23.12	23.09		
20	QPSK	100	0	23.35	23.19	23.14	23.04	23.13		
20	16QAM	1	0	23.38	23.21	23.23	23.20	23.16		24
20	16QAM	1	49	23.34	23.19	23.13	23.08	23.12		
20	16QAM	1	99	23.32	23.23	23.26	23.26	23.20		
20	16QAM	50	0	22.83	22.47	22.37	22.32	22.30		
20	16QAM	50	24	22.86	22.42	22.39	22.30	22.30		23
20	16QAM	50	50	22.84	22.41	22.45	22.43	22.37		
20	16QAM	100	0	22.84	22.42	22.36	22.36	22.34		
20	64QAM	1	0	22.32	22.09	22.09	22.08	22.08		23
20	64QAM	1	49	22.27	22.11	22.10	22.02	22.08		
20	64QAM	1	99	22.21	22.11	22.17	22.15	22.09		
20	64QAM	50	0	21.86	21.49	21.37	21.32	21.29		22
20	64QAM	50	24	21.88	21.44	21.38	21.33	21.37		
20	64QAM	50	50	21.86	21.42	21.46	21.39	21.44		
20	64QAM	100	0	21.85	21.41	21.37	21.29	21.27		
Channel				39725	40173	40620	41068	41515		Tune-up limit (dBm)
Frequency (MHz)				2503.5	2543.5	2593	2637.5	2682.5		
15	QPSK	1	0	23.23	23.07	23.21	23.04	23.09		24.2
15	QPSK	1	37	23.26	23.05	23.16	23.02	23.00		
15	QPSK	1	74	23.18	23.03	23.14	23.15	23.17		
15	QPSK	36	0	23.33	23.21	23.33	23.12	23.11		
15	QPSK	36	20	23.24	23.16	23.28	23.10	23.10		24
15	QPSK	36	38	23.28	23.16	23.31	23.21	23.16		
15	QPSK	75	0	23.30	23.16	23.32	23.06	23.06		
15	16QAM	1	0	23.32	23.21	23.30	23.21	23.14		24
15	16QAM	1	37	23.24	23.09	23.27	23.08	23.10		
15	16QAM	1	74	23.22	23.15	23.31	23.16	23.18		
15	16QAM	36	0	22.62	22.39	22.53	22.28	22.34		23
15	16QAM	36	20	22.47	22.41	22.53	22.30	22.37		
15	16QAM	36	38	22.50	22.35	22.44	22.36	22.43		
15	16QAM	75	0	22.45	22.37	22.47	22.36	22.35		
15	64QAM	1	0	22.30	22.03	22.22	22.03	22.00		23
15	64QAM	1	37	22.20	22.08	22.17	22.09	22.09		
15	64QAM	1	74	22.19	22.01	22.12	22.14	22.15		
15	64QAM	36	0	21.86	21.38	21.67	21.28	21.27		22
15	64QAM	36	20	21.80	21.38	21.49	21.33	21.32		
15	64QAM	36	38	21.48	21.33	21.46	21.46	21.37		
15	64QAM	75	0	21.81	21.34	21.53	21.36	21.32		
Channel				39700	40160	40620	41060	41540		Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.21	23.01	23.16	23.07	23.13		24.2
10	QPSK	1	25	23.21	23.09	23.16	23.08	23.00		
10	QPSK	1	49	23.14	23.08	23.18	23.15	23.10		
10	QPSK	25	0	23.36	23.20	23.31	23.07	23.11		
10	QPSK	25	12	23.32	23.16	23.34	23.12	23.08		24
10	QPSK	25	25	23.26	23.07	23.24	23.20	23.17		
10	QPSK	50	0	23.33	23.15	23.31	23.11	23.11		
10	16QAM	1	0	23.34	23.11	23.30	23.21	23.17		24
10	16QAM	1	25	23.32	23.17	23.30	23.11	23.08		
10	16QAM	1	49	23.32	23.23	23.30	23.17	23.16		
10	16QAM	25	0	22.83	22.42	22.57	22.30	22.29		23
10	16QAM	25	12	22.49	22.32	22.49	22.39	22.33		
10	16QAM	25	25	22.46	22.32	22.51	22.38	22.40		
10	16QAM	50	0	22.82	22.42	22.50	22.28	22.34		
10	64QAM	1	0	22.26	22.00	22.22	22.05	22.06		23
10	64QAM	1	25	22.25	22.01	22.17	22.10	22.01		
10	64QAM	1	49	22.17	22.08	22.15	22.09	22.12		
10	64QAM	25	0	21.83	21.46	21.64	21.29	21.36		22
10	64QAM	25	12	21.88	21.36	21.58	21.34	21.37		
10	64QAM	25	25	21.84	21.32	21.51	21.44	21.39		
10	64QAM	50	0	21.45	21.41	21.54	21.36	21.30		
Channel				39675	40143	40620	41053	41565		Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.24	23.05	23.18	23.03	23.03		24.2
5	QPSK	1	12	23.18	23.06	23.19	23.05	23.03		
5	QPSK	1	24	23.21	23.04	23.17	23.09	23.18		
5	QPSK	12	0	23.21	23.20	23.40	23.04	23.05		24
5	QPSK	12	7	23.32	23.19	23.31	23.09	23.10		
5	QPSK	12	13	23.32	23.11	23.31	23.14	23.15		
5	QPSK	25	0	23.32	23.19	23.26	23.04	23.10		
5	16QAM	1	0	23.37	23.20	23.33	23.15	23.18		24
5	16QAM	1	12	23.31	23.09	23.33	23.04	23.10		
5	16QAM	1	24	23.22	23.13	23.27	23.16	23.20		
5	16QAM	12	0	22.80	22.45	22.57	22.37	22.36		23
5	16QAM	12	7	22.49	22.33	22.47	22.33	22.32		
5	16QAM	12	13	22.49	22.40	22.51	22.44	22.43		
5	16QAM	25	0	22.81	22.40	22.53	22.29	22.30		
5	64QAM	1	0	22.30	22.06	22.27	21.89	22.01		23
5	64QAM	1	12	22.18	22.07	22.20	22.00	22.01		
5	64QAM	1	24	22.14	22.07	22.12	22.14	22.14		
5	64QAM	12	0	21.69	21.47	21.65	21.34	21.36		22
5	64QAM	12	7	21.84	21.40	21.52	21.31	21.30		
5	64QAM	12	13	21.81	21.34	21.46	21.36	21.40		
5	64QAM	25	0	21.80	21.33	21.47	21.33	21.34		



Band 41_HPUE									
Ant 2									
BW (Mhz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	25.72	25.73	25.53	25.63	25.36	25.8
20	QPSK	1	49	25.88	25.71	25.73	25.78	25.74	
20	QPSK	1	99	25.84	25.71	25.32	25.46	25.64	
20	QPSK	50	0	25.63	25.16	24.85	25.01	24.81	25.8
20	QPSK	50	24	25.27	25.10	24.79	24.58	24.96	
20	QPSK	50	50	25.22	25.09	24.57	24.68	24.94	
20	QPSK	100	0	23.76	25.11	24.68	24.91	24.86	25.8
20	16QAM	1	0	25.42	25.26	24.88	24.59	24.66	
20	16QAM	1	49	25.40	25.30	25.11	25.21	25.05	
20	16QAM	1	99	25.40	25.23	24.65	24.79	25.01	25.8
20	16QAM	50	0	24.39	24.19	24.05	24.05	23.82	
20	16QAM	50	24	24.31	24.15	24.00	24.04	23.99	
20	16QAM	50	50	24.28	24.12	23.97	23.91	23.97	25.8
20	16QAM	100	0	23.79	24.13	23.83	23.83	23.88	
20	64QAM	1	0	23.82	23.87	23.78	23.87	23.51	
20	64QAM	1	49	23.89	23.89	23.75	24.14	23.81	25.5
20	64QAM	1	99	24.04	24.05	23.76	23.59	23.50	
20	64QAM	50	0	22.82	22.77	22.79	23.07	22.85	
20	64QAM	50	24	23.04	22.83	22.78	23.04	22.86	24.5
20	64QAM	50	50	23.08	22.93	22.79	22.94	22.57	
20	64QAM	100	0	22.82	22.75	22.76	22.96	22.68	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2543.5	2593	2637.5	2682.5	
15	QPSK	1	0	25.63	25.71	25.43	25.59	25.33	25.8
15	QPSK	1	37	25.59	25.70	25.69	25.70	25.72	
15	QPSK	1	74	25.62	25.63	25.26	25.42	25.54	
15	QPSK	36	0	25.64	25.12	24.78	24.96	24.78	25.8
15	QPSK	36	20	25.27	25.10	24.72	24.91	24.88	
15	QPSK	36	39	25.15	25.05	24.49	24.63	24.97	
15	QPSK	75	0	23.88	25.01	24.59	24.84	24.76	25.8
15	16QAM	1	0	25.37	25.17	24.83	24.89	24.61	
15	16QAM	1	37	25.38	25.24	25.06	25.19	25.05	
15	16QAM	1	74	25.33	25.14	24.64	24.78	25.01	25.8
15	16QAM	36	0	24.33	24.13	24.02	23.97	23.80	
15	16QAM	36	20	24.25	24.13	23.98	23.85	23.89	
15	16QAM	36	39	24.23	24.12	23.89	23.82	23.90	25.5
15	16QAM	75	0	23.76	24.08	23.73	23.90	23.79	
15	64QAM	1	0	23.64	23.83	23.70	23.84	23.49	
15	64QAM	1	37	23.84	23.85	23.66	24.06	23.80	25.5
15	64QAM	1	74	23.99	24.04	23.72	23.56	23.48	
15	64QAM	36	0	22.75	22.75	22.69	23.05	22.81	
15	64QAM	36	20	23.03	22.80	22.71	22.98	22.67	24.5
15	64QAM	36	39	23.05	22.93	22.72	22.87	22.53	
15	64QAM	75	0	22.74	22.67	22.70	22.91	22.68	
Channel				39700	40160	40620	41060	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2542	2593	2639	2685	
10	QPSK	1	0	25.89	25.72	25.44	25.58	25.28	25.8
10	QPSK	1	25	25.66	25.71	25.65	25.70	25.64	
10	QPSK	1	49	25.63	25.66	25.22	25.38	25.63	
10	QPSK	25	0	25.55	25.16	24.84	24.97	24.79	25.8
10	QPSK	25	12	25.21	25.06	24.73	24.94	24.88	
10	QPSK	25	25	25.12	25.01	24.65	24.80	24.89	
10	QPSK	50	0	23.76	25.02	24.59	24.86	24.80	25.8
10	16QAM	1	0	25.36	25.19	24.85	24.91	24.67	
10	16QAM	1	25	25.37	25.29	25.06	25.16	25.02	
10	16QAM	1	49	25.32	25.17	24.62	24.78	24.91	25.8
10	16QAM	25	0	24.29	24.17	24.04	24.05	23.78	
10	16QAM	25	12	24.29	24.05	23.97	23.98	23.91	
10	16QAM	25	25	24.19	24.06	23.93	23.89	23.92	25.5
10	16QAM	50	0	23.75	24.05	23.75	23.90	23.81	
10	64QAM	1	0	23.53	23.81	23.68	23.77	23.49	
10	64QAM	1	25	23.88	23.80	23.74	24.11	23.71	25.5
10	64QAM	1	49	23.95	24.00	23.71	23.52	23.50	
10	64QAM	25	0	22.76	22.75	22.73	23.03	22.80	
10	64QAM	25	12	22.98	22.79	22.76	23.03	22.84	24.5
10	64QAM	25	25	23.03	22.86	22.70	22.87	22.50	
10	64QAM	50	0	22.75	22.68	22.68	22.96	22.62	
Channel				39515	40163	40630	41093	41595	Tune-up limit (dBm)
Frequency (MHz)				2496.5	2545.8	2593	2640.30	2697.5	
5	QPSK	1	0	25.65	25.67	25.50	25.58	25.27	25.8
5	QPSK	1	12	25.63	25.71	25.63	25.74	25.70	
5	QPSK	1	24	25.61	25.61	25.24	25.46	25.58	
5	QPSK	12	0	25.53	25.10	24.80	24.94	24.77	25.8
5	QPSK	12	7	25.23	25.04	24.75	24.58	24.94	
5	QPSK	12	13	25.22	25.08	24.51	24.84	24.85	
5	QPSK	25	0	23.67	25.05	24.59	24.86	24.86	25.8
5	16QAM	1	0	25.33	25.22	24.81	24.97	24.66	
5	16QAM	1	12	25.39	25.21	25.06	25.12	25.02	
5	16QAM	1	24	25.31	25.23	24.65	24.75	24.95	25.8
5	16QAM	12	0	24.34	24.11	23.96	23.98	23.82	
5	16QAM	12	7	24.24	24.08	23.94	23.95	23.93	
5	16QAM	12	13	24.23	24.07	23.87	23.91	23.92	25.5
5	16QAM	25	0	23.75	24.10	23.75	23.86	23.86	
5	64QAM	1	0	23.50	23.83	23.77	23.84	23.49	
5	64QAM	1	12	23.85	23.84	23.70	24.09	23.79	25.5
5	64QAM	1	24	24.03	23.96	23.75	23.54	23.46	
5	64QAM	12	0	22.82	22.73	22.72	23.01	22.78	
5	64QAM	12	7	22.94	22.77	22.70	22.97	22.82	24.5
5	64QAM	12	13	23.06	22.88	22.78	22.84	22.56	
5	64QAM	25	0	22.81	22.75	22.69	22.96	22.64	



Band 42							
Art 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				43190	43340	43490	
Frequency (MHz)				3560	3575	3590	
20	QPSK	1	0	24.84	24.68	24.76	25
20	QPSK	1	49	24.81	24.68	24.74	
20	QPSK	1	99	24.59	24.62	24.69	
20	QPSK	50	0	23.79	23.86	23.94	24
20	QPSK	50	24	23.87	23.84	23.89	
20	QPSK	50	50	23.79	23.86	23.90	
20	QPSK	100	0	23.84	23.83	23.87	24
20	16QAM	1	0	23.94	23.92	23.90	
20	16QAM	1	49	23.93	23.95	23.90	
20	16QAM	1	99	23.96	23.98	23.99	23
20	16QAM	50	0	22.85	22.87	22.97	
20	16QAM	50	24	22.89	22.85	22.92	
20	16QAM	50	50	22.83	22.89	22.91	23
20	16QAM	100	0	22.88	22.85	22.90	
20	64QAM	1	0	22.79	22.82	22.90	
20	64QAM	1	49	22.81	22.88	22.85	23
20	64QAM	1	99	22.81	22.86	22.76	
20	64QAM	50	0	21.84	21.90	21.85	
20	64QAM	50	24	21.89	21.89	21.93	22
20	64QAM	50	50	21.84	21.89	21.84	
20	64QAM	100	0	21.88	21.85	21.84	
Channel				43165	43340	43515	
Frequency (MHz)				3572.5	3575	3592.5	
15	QPSK	1	0	24.53	24.61	24.75	25
15	QPSK	1	37	24.80	24.66	24.67	
15	QPSK	1	74	24.56	24.53	24.61	
15	QPSK	36	0	23.77	23.78	23.92	24
15	QPSK	36	20	23.81	23.77	23.84	
15	QPSK	36	39	23.69	23.79	23.96	
15	QPSK	75	0	23.76	23.77	23.78	24
15	16QAM	1	0	23.93	23.99	23.99	
15	16QAM	1	37	23.97	23.95	23.97	
15	16QAM	1	74	23.86	23.88	23.97	23
15	16QAM	36	0	22.78	22.77	22.97	
15	16QAM	36	20	22.90	22.94	22.90	
15	16QAM	36	39	22.74	22.89	22.91	23
15	16QAM	75	0	22.86	22.76	22.83	
15	64QAM	1	0	22.75	22.72	22.83	
15	64QAM	1	37	22.80	22.78	22.85	23
15	64QAM	1	74	22.80	22.78	22.74	
15	64QAM	36	0	21.84	21.89	21.85	
15	64QAM	36	20	21.83	21.85	21.92	22
15	64QAM	36	39	21.81	21.82	21.82	
15	64QAM	75	0	21.84	21.78	21.75	
Channel				43140	43340	43540	
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	24.81	24.55	24.74	25
10	QPSK	1	25	24.58	24.56	24.68	
10	QPSK	1	49	24.59	24.52	24.61	
10	QPSK	25	0	23.74	23.79	23.88	24
10	QPSK	25	12	23.85	23.74	23.87	
10	QPSK	25	25	23.75	23.85	23.90	
10	QPSK	50	0	23.80	23.82	23.87	24
10	16QAM	1	0	23.94	23.96	23.96	
10	16QAM	1	25	23.90	23.96	23.90	
10	16QAM	1	49	23.92	23.88	23.98	23
10	16QAM	25	0	22.76	22.77	22.92	
10	16QAM	25	12	22.84	22.77	22.84	
10	16QAM	25	25	22.80	22.80	22.81	23
10	16QAM	50	0	22.85	22.77	22.87	
10	64QAM	1	0	22.79	22.81	22.90	
10	64QAM	1	25	22.71	22.85	22.79	23
10	64QAM	1	49	22.71	22.84	22.67	
10	64QAM	25	0	21.77	21.87	21.83	
10	64QAM	25	12	21.88	21.84	21.85	22
10	64QAM	25	25	21.74	21.80	21.81	
10	64QAM	50	0	21.88	21.80	21.76	
Channel				43115	43340	43565	
Frequency (MHz)				3552.5	3575	3597.5	
5	QPSK	1	0	24.63	24.60	24.62	25
5	QPSK	1	12	24.59	24.63	24.71	
5	QPSK	1	24	24.59	24.53	24.59	
5	QPSK	12	0	23.75	23.80	23.88	24
5	QPSK	12	7	23.86	23.80	23.87	
5	QPSK	12	13	23.72	23.86	23.86	
5	QPSK	25	0	23.82	23.82	23.86	24
5	16QAM	1	0	23.93	23.94	23.95	
5	16QAM	1	12	23.84	23.93	23.91	
5	16QAM	1	24	23.91	23.91	23.97	23
5	16QAM	12	0	22.79	22.86	22.94	
5	16QAM	12	7	22.80	22.81	22.82	
5	16QAM	12	13	22.77	22.89	22.81	23
5	16QAM	25	0	22.86	22.81	22.87	
5	64QAM	1	0	22.79	22.73	22.89	
5	64QAM	1	12	22.73	22.80	22.78	23
5	64QAM	1	24	22.76	22.79	22.70	
5	64QAM	12	0	21.84	21.88	21.85	
5	64QAM	12	7	21.82	21.89	21.93	22
5	64QAM	12	13	21.83	21.81	21.84	
5	64QAM	25	0	21.84	21.78	21.78	



Band 48								
Ant 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				55340	55830	56150	56640	
Frequency (MHz)				3560	3609	3641	3690	
20	QPSK	1	0	20.89	24.38	24.55	20.93	25
20	QPSK	1	49	20.78	24.21	24.18	20.76	
20	QPSK	1	99	20.77	24.20	24.13	20.67	24
20	QPSK	50	0	19.97	23.62	23.58	19.96	
20	QPSK	50	24	19.92	23.63	23.50	19.90	24
20	QPSK	50	50	19.88	23.47	23.44	19.80	
20	QPSK	100	0	19.93	23.52	23.51	19.87	24
20	16QAM	1	0	19.91	23.68	23.68	19.92	
20	16QAM	1	49	19.84	23.46	23.46	19.80	23
20	16QAM	1	99	19.89	23.47	23.46	19.76	
20	16QAM	50	0	19.00	22.54	22.62	19.00	23
20	16QAM	50	24	18.97	22.57	22.56	18.94	
20	16QAM	50	50	18.89	22.51	22.48	18.86	23
20	16QAM	100	0	18.95	22.58	22.53	18.90	
20	64QAM	1	0	18.74	22.36	22.11	18.87	23
20	64QAM	1	49	18.60	22.23	22.09	18.61	
20	64QAM	1	99	18.67	22.27	22.01	18.55	22
20	64QAM	50	0	17.99	21.58	21.43	17.99	
20	64QAM	50	24	17.86	21.59	21.46	17.94	22
20	64QAM	50	50	17.90	21.52	21.35	17.82	
20	64QAM	100	0	17.95	21.57	21.36	17.91	
Channel				55315	55820	56160	56665	
Frequency (MHz)				35715	3603	3642	3672	
15	QPSK	1	0	20.82	24.38	24.38	20.87	25
15	QPSK	1	37	20.76	24.18	24.10	20.75	
15	QPSK	1	74	20.75	24.20	24.08	20.65	24
15	QPSK	36	0	19.91	23.60	23.48	19.87	
15	QPSK	36	20	19.87	23.45	23.43	19.86	24
15	QPSK	36	39	19.78	23.42	23.40	19.71	
15	QPSK	75	0	19.87	23.43	23.41	19.80	24
15	16QAM	1	0	19.96	23.61	23.60	19.96	
15	16QAM	1	37	19.76	23.44	23.42	19.70	24
15	16QAM	1	74	19.80	23.44	23.45	19.71	
15	16QAM	36	0	18.98	22.47	22.60	18.99	23
15	16QAM	36	20	18.96	22.56	22.46	18.89	
15	16QAM	36	39	18.81	22.49	22.39	18.72	23
15	16QAM	75	0	18.88	22.51	22.48	18.84	
15	64QAM	1	0	18.73	22.28	22.07	18.82	23
15	64QAM	1	37	18.55	22.19	22.00	18.57	
15	64QAM	1	74	18.57	22.19	21.93	18.47	22
15	64QAM	36	0	17.82	21.53	21.41	17.89	
15	64QAM	36	20	17.88	21.52	21.37	17.90	22
15	64QAM	36	39	17.83	21.48	21.30	17.72	
15	64QAM	75	0	17.95	21.48	21.33	17.83	
Channel				55290	55815	56165	56690	
Frequency (MHz)				35525	36075	36425	36975	
10	QPSK	1	0	20.81	24.30	24.32	20.92	25
10	QPSK	1	25	20.76	24.18	24.14	20.70	
10	QPSK	1	49	20.72	24.16	24.12	20.66	24
10	QPSK	25	0	19.90	23.61	23.58	19.89	
10	QPSK	25	12	19.90	23.46	23.48	19.88	24
10	QPSK	25	25	19.87	23.45	23.38	19.72	
10	QPSK	50	0	19.91	23.42	23.51	19.84	24
10	16QAM	1	0	19.94	23.69	23.66	19.96	
10	16QAM	1	25	19.83	23.44	23.40	19.72	24
10	16QAM	1	49	19.89	23.46	23.45	19.74	
10	16QAM	25	0	18.94	22.53	22.59	18.00	23
10	16QAM	25	12	18.87	22.57	22.54	18.88	
10	16QAM	25	25	18.84	22.51	22.40	18.80	23
10	16QAM	50	0	18.92	22.55	22.50	18.82	
10	64QAM	1	0	18.67	22.31	22.05	18.82	23
10	64QAM	1	25	18.60	22.22	22.06	18.60	
10	64QAM	1	49	18.61	22.26	21.99	18.47	22
10	64QAM	25	0	17.95	21.50	21.33	17.89	
10	64QAM	25	12	17.92	21.54	21.43	17.84	22
10	64QAM	25	25	17.89	21.42	21.25	17.77	
10	64QAM	50	0	17.87	21.56	21.36	17.81	
Channel				55265	55810	56170	56715	
Frequency (MHz)				35225	3607	3643	3697	
5	QPSK	1	0	20.81	24.33	24.39	20.92	25
5	QPSK	1	12	20.72	24.19	24.13	20.67	
5	QPSK	1	24	20.76	24.20	24.10	20.61	24
5	QPSK	12	0	19.94	23.52	23.54	19.92	
5	QPSK	12	7	19.87	23.48	23.40	19.84	24
5	QPSK	12	13	19.83	23.41	23.43	19.71	
5	QPSK	25	0	19.88	23.50	23.43	19.77	24
5	16QAM	1	0	19.99	23.66	23.67	19.91	
5	16QAM	1	12	19.90	23.38	23.40	19.80	24
5	16QAM	1	24	19.84	23.43	23.39	19.75	
5	16QAM	12	0	18.90	22.54	22.62	18.93	23
5	16QAM	12	7	18.97	22.54	22.55	18.89	
5	16QAM	12	13	18.83	22.41	22.48	18.75	23
5	16QAM	25	0	18.92	22.54	22.48	18.87	
5	64QAM	1	0	18.73	22.28	22.03	18.77	23
5	64QAM	1	12	18.60	22.15	22.01	18.52	
5	64QAM	1	24	18.57	22.19	21.95	18.47	22
5	64QAM	12	0	18.01	21.49	21.39	17.92	
5	64QAM	12	7	17.95	21.50	21.46	17.94	22
5	64QAM	12	13	17.83	21.42	21.30	17.75	
5	64QAM	25	0	17.98	21.53	21.33	17.91	



Band 38								
Art 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				37850	38000	38150		
Frequency (MHz)				2530	2595	2610		
20	QPSK	1	0	24.83	24.94	24.98	25	
20	QPSK	1	49	24.98	24.91	24.93		
20	QPSK	1	99	24.94	24.97	24.96		
20	QPSK	50	0	23.94	23.99	23.99		
20	QPSK	50	24	23.99	23.92	23.92	24	
20	QPSK	50	50	23.88	23.84	23.82		
20	QPSK	100	0	22.89	22.88	22.82		
20	16QAM	1	0	23.83	23.86	23.86		
20	16QAM	1	49	23.86	23.87	23.80	24	
20	16QAM	1	99	23.82	23.83	23.83		
20	16QAM	50	0	22.86	22.81	22.81		
20	16QAM	50	24	22.89	22.86	22.83		
20	16QAM	50	50	22.80	22.86	22.80	23	
20	16QAM	100	0	22.88	22.83	22.82		
20	64QAM	1	0	22.80	22.81	22.81		
20	64QAM	1	49	22.79	22.81	22.83		
20	64QAM	1	99	22.85	22.80	22.79	23	
20	64QAM	50	0	21.89	21.80	21.91		
20	64QAM	50	24	21.90	21.78	21.84		
20	64QAM	50	50	21.81	21.88	21.85		
20	64QAM	100	0	21.89	21.84	21.82	22	
Channel				37825	38000	38175		
Frequency (MHz)				25775	2595	2612.5		
15	QPSK	1	0	24.91	24.94	24.97		25
15	QPSK	1	37	24.90	24.82	24.91		
15	QPSK	1	74	24.91	24.87	24.96		
15	QPSK	36	0	23.84	23.97	23.92		
15	QPSK	36	20	23.96	23.87	23.83	24	
15	QPSK	36	39	23.79	23.80	23.72		
15	QPSK	75	0	23.81	23.87	23.78		
15	16QAM	1	0	23.74	23.83	23.81		
15	16QAM	1	37	23.86	23.81	23.71	24	
15	16QAM	1	74	23.72	23.73	23.77		
15	16QAM	36	0	22.85	22.77	22.80		
15	16QAM	36	20	22.81	22.86	22.75		
15	16QAM	36	39	22.75	22.85	22.76	23	
15	16QAM	75	0	22.86	22.74	22.79		
15	64QAM	1	0	22.71	22.80	22.73		
15	64QAM	1	37	22.71	22.79	22.79		
15	64QAM	1	74	22.85	22.70	22.75	23	
15	64QAM	36	0	21.80	21.78	21.89		
15	64QAM	36	20	21.87	21.70	21.80		
15	64QAM	36	39	21.77	21.82	21.83		
15	64QAM	75	0	21.89	21.84	21.79	22	
Channel				37800	38000	38200		
Frequency (MHz)				25755	2595	2615		
10	QPSK	1	0	24.92	24.89	24.91		25
10	QPSK	1	25	24.90	24.90	24.83		
10	QPSK	1	49	24.91	24.97	24.87		
10	QPSK	25	0	23.90	23.97	23.99		
10	QPSK	25	12	23.95	23.89	23.89	24	
10	QPSK	25	25	23.84	23.77	23.72		
10	QPSK	50	0	23.82	23.82	23.74		
10	16QAM	1	0	23.74	23.76	23.84		
10	16QAM	1	25	23.77	23.84	23.70	24	
10	16QAM	1	49	23.75	23.78	23.82		
10	16QAM	25	0	22.84	22.71	22.80		
10	16QAM	25	12	22.87	22.81	22.82		
10	16QAM	25	25	22.70	22.77	22.75	23	
10	16QAM	50	0	22.86	22.75	22.74		
10	64QAM	1	0	22.80	22.74	22.74		
10	64QAM	1	25	22.72	22.71	22.75		
10	64QAM	1	49	22.77	22.75	22.73	23	
10	64QAM	25	0	21.81	21.75	21.89		
10	64QAM	25	12	21.83	21.73	21.77		
10	64QAM	25	25	21.79	21.79	21.83		
10	64QAM	50	0	21.80	21.79	21.75	22	
Channel				37775	38000	38225		
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	24.86	24.92	24.94		25
5	QPSK	1	12	24.96	24.90	24.92		
5	QPSK	1	24	24.94	24.84	24.95		
5	QPSK	12	0	23.86	23.97	23.93		
5	QPSK	12	7	23.91	23.82	23.83	24	
5	QPSK	12	13	23.88	23.82	23.81		
5	QPSK	25	0	23.79	23.82	23.72		
5	16QAM	1	0	23.74	23.76	23.86		
5	16QAM	1	12	23.79	23.83	23.76	24	
5	16QAM	1	24	23.72	23.80	23.79		
5	16QAM	12	0	22.82	22.73	22.79		
5	16QAM	12	7	22.86	22.82	22.73		
5	16QAM	12	13	22.77	22.83	22.79	23	
5	16QAM	25	0	22.84	22.78	22.79		
5	64QAM	1	0	22.77	22.77	22.79		
5	64QAM	1	12	22.74	22.71	22.76		
5	64QAM	1	24	22.82	22.70	22.73	23	
5	64QAM	12	0	21.88	21.71	21.87		
5	64QAM	12	7	21.88	21.71	21.84		
5	64QAM	12	13	21.80	21.83	21.80		
5	64QAM	25	0	21.84	21.77	21.72	22	



Band 38_HPUE							
Airt 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				37850	38000	38150	
Frequency (MHz)				2500	2595	2610	
20	QPSK	1	0	26.87	26.91	26.95	27.5
20	QPSK	1	49	26.82	26.98	26.99	
20	QPSK	1	99	26.60	27.01	27.00	
20	QPSK	50	0	25.73	25.88	26.11	26.5
20	QPSK	50	24	25.81	25.94	26.26	
20	QPSK	50	50	25.74	25.89	26.00	
20	QPSK	100	0	25.84	25.91	26.07	26.5
20	16QAM	1	0	26.20	26.33	26.32	
20	16QAM	1	49	25.96	26.26	26.32	
20	16QAM	1	99	25.96	26.37	26.34	25.5
20	16QAM	50	0	24.94	25.08	25.29	
20	16QAM	50	24	24.97	25.22	25.32	
20	16QAM	50	50	25.07	25.23	25.34	25.5
20	16QAM	100	0	24.92	25.04	25.16	
20	64QAM	1	0	24.31	24.38	24.44	
20	64QAM	1	49	24.04	24.31	24.74	24.5
20	64QAM	99	0	24.04	24.55	24.68	
20	64QAM	50	0	23.16	23.14	23.43	
20	64QAM	50	24	23.14	23.29	23.50	24.5
20	64QAM	50	50	23.13	23.34	23.43	
20	64QAM	100	0	23.10	23.14	23.24	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2677.5	2695	2677.5	
15	QPSK	1	0	26.82	26.82	26.94	27.5
15	QPSK	1	37	26.58	26.91	26.95	
15	QPSK	1	74	26.58	26.99	26.98	
15	QPSK	36	0	25.63	25.85	26.01	26.5
15	QPSK	36	20	25.81	25.86	26.19	
15	QPSK	36	39	25.85	25.83	25.94	
15	QPSK	75	0	25.82	25.82	26.01	26.5
15	16QAM	1	0	26.11	26.23	26.28	
15	16QAM	1	37	25.93	26.20	26.22	
15	16QAM	1	74	25.90	26.27	26.33	25.5
15	16QAM	36	0	24.96	25.06	25.27	
15	16QAM	36	20	24.90	25.13	25.27	
15	16QAM	36	39	24.97	25.15	25.29	25.5
15	16QAM	75	0	24.85	24.96	25.13	
15	64QAM	1	0	24.30	24.33	24.38	
15	64QAM	1	37	23.99	24.25	24.74	24.5
15	64QAM	1	74	24.04	24.55	24.68	
15	64QAM	36	0	23.12	23.11	23.43	
15	64QAM	36	20	23.05	23.21	23.44	24.5
15	64QAM	36	39	23.08	23.29	23.38	
15	64QAM	75	0	23.05	23.12	23.16	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2675	2695	2615	
10	QPSK	1	0	26.80	26.89	26.94	27.5
10	QPSK	1	25	26.58	26.90	26.93	
10	QPSK	1	49	26.52	27.00	26.98	
10	QPSK	25	0	25.68	25.80	26.06	26.5
10	QPSK	25	12	25.78	25.85	26.19	
10	QPSK	25	25	25.73	25.89	25.91	
10	QPSK	50	0	25.74	25.87	25.99	26.5
10	16QAM	1	0	26.13	26.30	26.25	
10	16QAM	1	25	25.86	26.19	26.23	
10	16QAM	1	49	25.90	26.32	26.31	25.5
10	16QAM	25	0	24.90	25.07	25.22	
10	16QAM	25	12	24.92	25.17	25.22	
10	16QAM	25	25	25.04	25.14	25.34	25.5
10	16QAM	50	0	24.91	24.96	25.15	
10	64QAM	1	0	24.24	24.37	24.36	
10	64QAM	1	25	23.97	24.24	24.64	24.5
10	64QAM	1	49	24.04	24.53	24.65	
10	64QAM	25	0	23.07	23.12	23.33	
10	64QAM	25	12	23.05	23.19	23.43	24.5
10	64QAM	25	25	23.12	23.31	23.35	
10	64QAM	50	0	23.10	23.10	23.24	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	26.80	26.90	26.94	27.5
5	QPSK	1	12	26.59	26.97	26.91	
5	QPSK	1	24	26.53	26.96	26.91	
5	QPSK	12	0	25.64	25.85	26.04	26.5
5	QPSK	12	7	25.77	25.90	26.20	
5	QPSK	12	13	25.71	25.88	26.00	
5	QPSK	25	0	25.78	25.83	26.04	26.5
5	16QAM	1	0	26.17	26.32	26.31	
5	16QAM	1	12	25.96	26.21	26.27	
5	16QAM	1	24	25.93	26.32	26.28	25.5
5	16QAM	12	0	24.84	25.07	25.19	
5	16QAM	12	7	24.92	25.22	25.31	
5	16QAM	12	13	24.99	25.13	25.34	25.5
5	16QAM	25	0	24.82	24.99	25.12	
5	64QAM	1	0	24.28	24.33	24.43	
5	64QAM	1	12	23.96	24.26	24.67	24.5
5	64QAM	1	24	23.95	24.49	24.64	
5	64QAM	12	0	23.06	23.09	23.41	
5	64QAM	12	7	23.10	23.22	23.41	24.5
5	64QAM	12	13	23.11	23.26	23.42	
5	64QAM	25	0	23.03	23.05	23.20	



Band 41									
Airt 0									
BW (MHz)	Modulation	RB Size	BW (MHz)	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				39650	40135	40620	41105	41590	
Frequency (MHz)				2486	2544.5	2593	2641.5	2690	
20	QPSK	1	0	24.63	24.82	24.91	24.99	24.45	25
20	QPSK	1	49	24.87	24.87	24.94	24.95	24.81	
20	QPSK	1	99	24.73	24.95	24.96	24.75	24.68	
20	QPSK	50	0	23.81	23.99	23.90	23.98	23.79	
20	QPSK	50	24	23.83	23.93	23.93	23.94	23.92	
20	QPSK	50	50	23.84	23.90	23.94	23.94	23.81	
20	QPSK	100	0	23.84	23.95	23.91	23.97	23.85	
20	16QAM	1	0	23.73	23.94	23.99	24.00	23.55	24
20	16QAM	1	49	23.73	23.98	23.91	23.99	23.88	
20	16QAM	1	99	23.84	23.93	23.92	23.86	23.75	
20	16QAM	50	0	22.81	22.83	22.82	22.80	22.81	
20	16QAM	50	24	22.87	22.86	22.83	22.87	22.86	
20	16QAM	50	50	22.88	22.88	22.87	22.89	22.85	
20	16QAM	100	0	22.84	22.85	22.84	22.89	22.87	
20	64QAM	1	0	22.50	22.67	22.78	22.77	22.25	23
20	64QAM	1	49	22.44	22.70	22.71	22.88	22.62	
20	64QAM	1	99	22.58	22.77	22.73	22.54	22.41	
20	64QAM	50	0	21.81	21.94	21.85	21.81	21.81	
20	64QAM	50	24	21.88	21.91	21.86	21.80	21.88	
20	64QAM	50	50	21.86	21.91	21.86	21.89	21.87	
20	64QAM	100	0	21.87	21.98	21.84	21.81	21.86	
Channel				39650	40135.5	40620	41105.5	41590	
Frequency (MHz)				2486	2544.55	2593	2641.55	2690	
15	QPSK	1	0	24.59	24.78	24.84	24.84	24.40	25
15	QPSK	1	37	24.57	24.78	24.88	24.85	24.75	
15	QPSK	1	74	24.72	24.95	24.94	24.71	24.65	
15	QPSK	36	0	23.81	23.91	23.83	23.98	23.75	
15	QPSK	36	20	23.76	23.89	23.85	23.91	23.89	
15	QPSK	36	39	23.79	23.80	23.84	23.87	23.71	
15	QPSK	75	0	23.81	23.88	23.88	23.94	23.82	24
15	16QAM	1	0	23.71	23.84	23.90	23.94	23.47	
15	16QAM	1	37	23.71	23.97	23.86	23.99	23.83	
15	16QAM	1	74	23.82	23.89	23.89	23.83	23.65	
15	16QAM	36	0	22.74	22.81	22.77	22.70	22.80	
15	16QAM	36	20	22.84	22.84	22.75	22.86	22.87	
15	16QAM	36	39	22.79	22.85	22.77	22.82	22.84	
15	16QAM	75	0	22.75	22.83	22.82	22.85	22.82	
15	64QAM	1	0	22.40	22.59	22.78	22.77	22.16	23
15	64QAM	1	37	22.42	22.61	22.63	22.62	22.53	
15	64QAM	1	74	22.48	22.77	22.69	22.61	22.39	
15	64QAM	36	0	21.77	21.91	21.78	21.78	21.80	
15	64QAM	36	20	21.85	21.85	21.82	21.73	21.95	
15	64QAM	36	39	21.80	21.91	21.81	21.84	21.80	
15	64QAM	75	0	21.81	21.88	21.75	21.78	21.84	
Channel				39650	40135.5	40620	41105.5	41590	
Frequency (MHz)				2486	2544.55	2593	2641.55	2690	
10	QPSK	1	0	24.59	24.72	24.82	24.82	24.45	25
10	QPSK	1	25	24.60	24.81	24.85	24.93	24.80	
10	QPSK	1	49	24.67	24.90	24.92	24.68	24.58	
10	QPSK	25	0	23.74	23.97	23.84	23.89	23.75	
10	QPSK	25	12	23.81	23.87	23.85	23.88	23.83	
10	QPSK	25	25	23.80	23.88	23.89	23.85	23.78	
10	QPSK	50	0	23.76	23.95	23.81	23.96	23.77	24
10	16QAM	1	0	23.71	23.87	23.96	23.97	23.51	
10	16QAM	1	25	23.84	23.93	23.82	23.95	23.86	
10	16QAM	1	49	23.81	23.91	23.86	23.84	23.75	
10	16QAM	25	0	22.76	22.75	22.75	22.76	22.80	
10	16QAM	25	12	22.79	22.81	22.82	22.79	22.93	
10	16QAM	25	25	22.85	22.87	22.85	22.81	22.82	
10	16QAM	50	0	22.77	22.81	22.77	22.80	22.82	
10	64QAM	1	0	22.44	22.63	22.76	22.76	22.21	23
10	64QAM	1	25	22.40	22.68	22.64	22.68	22.54	
10	64QAM	1	49	22.51	22.70	22.63	22.50	22.31	
10	64QAM	25	0	21.75	21.87	21.78	21.77	21.79	
10	64QAM	25	12	21.82	21.90	21.79	21.78	21.98	
10	64QAM	25	25	21.80	21.83	21.80	21.81	21.86	
10	64QAM	50	0	21.79	21.98	21.83	21.79	21.78	
Channel				39650	40135.5	40620	41105.5	41590	
Frequency (MHz)				2486	2544.55	2593	2641.55	2690	
5	QPSK	1	0	24.61	24.80	24.90	24.84	24.38	25
5	QPSK	1	12	24.60	24.85	24.87	24.89	24.79	
5	QPSK	1	24	24.71	24.94	24.96	24.71	24.65	
5	QPSK	12	0	23.77	23.92	23.85	23.87	23.74	
5	QPSK	12	7	23.80	23.93	23.90	23.87	23.82	
5	QPSK	12	13	23.81	23.84	23.93	23.87	23.71	
5	QPSK	25	0	23.82	23.91	23.81	23.90	23.79	24
5	16QAM	1	0	23.73	23.92	23.93	23.95	23.47	
5	16QAM	1	12	23.73	23.96	23.85	23.97	23.84	
5	16QAM	1	24	23.82	23.91	23.86	23.82	23.71	
5	16QAM	12	0	22.71	22.78	22.75	22.72	22.73	
5	16QAM	12	7	22.87	22.78	22.81	22.83	22.94	
5	16QAM	12	13	22.88	22.83	22.79	22.79	22.84	
5	16QAM	25	0	22.78	22.81	22.74	22.85	22.89	23
5	64QAM	1	0	22.41	22.67	22.75	22.73	22.17	
5	64QAM	1	12	22.41	22.65	22.69	22.65	22.54	
5	64QAM	1	24	22.48	22.76	22.72	22.45	22.40	
5	64QAM	12	0	21.75	21.89	21.81	21.75	21.80	
5	64QAM	12	7	21.88	21.87	21.77	21.74	21.98	
5	64QAM	12	13	21.76	21.86	21.77	21.84	21.84	
5	64QAM	25	0	21.87	21.96	21.80	21.77	21.78	



Band 41_HPUE										
Art 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2565	2549.5	2593	2596.5	2630		
20	QPSK	1	0	25.82	26.05	26.66	26.59	26.20	27.5	
20	QPSK	1	49	26.31	25.96	26.67	26.96	26.46		
20	QPSK	1	99	26.48	25.87	26.66	26.44	26.13		
20	QPSK	50	0	25.16	25.01	25.91	25.99	25.62	26.5	
20	QPSK	50	24	25.39	24.93	25.93	26.08	25.77		
20	QPSK	50	50	25.69	24.79	25.95	25.88	25.47		
20	QPSK	100	0	24.56	24.86	25.95	26.68	25.63	26.5	
20	16QAM	1	0	25.24	25.30	26.07	25.97	25.51		
20	16QAM	1	49	25.88	25.14	26.00	26.25	25.81		
20	16QAM	1	99	25.80	25.03	26.06	25.77	25.50	25.5	
20	16QAM	50	0	24.36	24.12	24.93	25.01	24.65		
20	16QAM	50	24	24.66	24.06	24.96	25.11	24.79		
20	16QAM	50	50	24.74	23.98	24.96	24.99	24.66	25.5	
20	16QAM	100	0	24.22	23.92	24.95	24.91	24.70		
20	84QAM	1	0	23.58	23.66	24.29	24.63	24.10		
20	84QAM	1	49	23.58	23.60	24.45	25.12	23.82	25.5	
20	84QAM	1	99	24.03	23.86	24.09	24.62	23.50		
20	84QAM	50	0	22.56	22.52	23.29	24.04	23.14		
20	84QAM	50	24	22.67	22.54	23.35	24.12	23.03	24.5	
20	84QAM	50	50	22.90	22.59	23.42	23.90	22.78		
20	84QAM	100	0	22.55	22.54	23.35	23.92	22.93		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2603.5	2563.5	2624	2633.5	2667.5		
15	QPSK	1	0	25.88	25.95	26.64	26.49	26.14	27.5	
15	QPSK	1	37	26.21	25.80	26.62	26.79	26.44		
15	QPSK	1	74	26.44	25.77	26.65	26.42	26.07		
15	QPSK	36	0	25.18	24.91	25.82	25.90	25.60	26.5	
15	QPSK	36	20	25.35	24.83	25.88	26.03	25.67		
15	QPSK	36	39	25.66	24.72	25.87	25.73	25.37		
15	QPSK	75	0	24.51	24.80	25.86	25.86	25.55	26.5	
15	16QAM	1	0	25.24	25.21	26.05	25.97	25.50		
15	16QAM	1	37	25.66	25.08	25.99	26.15	25.81		
15	16QAM	1	74	25.73	24.96	26.05	25.76	25.50	25.5	
15	16QAM	36	0	24.69	24.06	24.84	24.87	24.96		
15	16QAM	36	20	24.82	24.06	24.86	25.04	24.73		
15	16QAM	36	39	24.70	23.89	24.93	24.89	24.64	25.5	
15	16QAM	75	0	24.17	23.82	24.87	24.82	24.61		
15	84QAM	1	0	23.55	23.56	24.25	24.79	24.07		
15	84QAM	1	37	23.58	23.60	24.41	25.03	23.75	25.5	
15	84QAM	1	74	24.03	23.61	24.08	24.65	23.49		
15	84QAM	36	0	22.56	22.48	23.23	23.99	23.10		
15	84QAM	36	20	22.85	22.47	23.34	24.11	23.02	24.5	
15	84QAM	36	39	22.84	22.59	23.32	23.88	22.78		
15	84QAM	75	0	22.53	22.51	23.26	23.85	22.90		
Channel				39700	40150	40620	41060	41510		
Frequency (MHz)				2601	2547	2624	2630	2665		
10	QPSK	1	0	25.82	26.03	26.58	26.55	26.10	27.5	
10	QPSK	1	25	26.21	25.77	26.66	26.80	26.39		
10	QPSK	1	49	26.46	25.83	26.64	26.34	26.09		
10	QPSK	25	0	25.14	24.99	25.81	25.95	25.62	26.5	
10	QPSK	25	12	25.33	24.85	25.85	26.05	25.75		
10	QPSK	25	25	25.59	24.78	25.94	25.80	25.45		
10	QPSK	50	0	24.66	24.77	25.86	25.82	25.84	26.5	
10	16QAM	1	0	25.15	25.22	25.99	25.94	25.44		
10	16QAM	1	25	25.68	25.08	25.99	26.20	25.81		
10	16QAM	1	49	25.75	25.00	25.99	25.75	25.46	25.5	
10	16QAM	25	0	24.26	24.04	24.83	24.92	24.61		
10	16QAM	25	12	24.68	24.00	24.91	25.10	24.74		
10	16QAM	25	25	24.72	23.97	24.98	24.81	24.61	25.5	
10	16QAM	50	0	24.21	23.82	24.95	24.82	24.61		
10	84QAM	1	0	23.54	23.61	24.26	24.75	24.02		
10	84QAM	1	25	23.50	23.56	24.35	25.10	23.76	25.5	
10	84QAM	1	49	24.03	23.95	24.05	24.62	23.41		
10	84QAM	25	0	22.50	22.50	23.28	24.01	23.13		
10	84QAM	25	12	22.63	22.49	23.29	24.10	22.99	24.5	
10	84QAM	25	25	22.87	22.49	23.34	23.87	22.71		
10	84QAM	50	0	22.46	22.53	23.27	23.89	22.84		
Channel				39675	40148	40620	41063	41565		
Frequency (MHz)				2198.5	2545.6	2593	2640.30	2687.5		
5	QPSK	1	0	25.82	25.95	26.66	26.59	26.19	27.5	
5	QPSK	1	12	26.27	25.76	26.61	26.83	26.45		
5	QPSK	1	24	26.38	25.79	26.60	26.41	26.04		
5	QPSK	12	0	25.17	25.00	25.91	25.97	25.60	26.5	
5	QPSK	12	7	25.33	24.91	25.87	26.06	25.72		
5	QPSK	12	13	25.65	24.78	25.95	25.83	25.41		
5	QPSK	25	0	24.64	24.77	25.94	25.87	25.59	26.5	
5	16QAM	1	0	25.19	25.24	26.05	25.89	25.45		
5	16QAM	1	12	25.58	25.06	25.92	26.15	25.75		
5	16QAM	1	24	25.72	24.96	25.99	25.71	25.49	25.5	
5	16QAM	12	0	24.28	24.10	24.92	24.99	24.58		
5	16QAM	12	7	24.64	24.06	24.87	25.06	24.75		
5	16QAM	12	13	24.64	23.96	24.94	24.79	24.62	25.5	
5	16QAM	25	0	24.16	23.90	24.91	24.88	24.68		
5	84QAM	1	0	23.48	23.60	24.24	24.80	24.04		
5	84QAM	1	12	23.54	23.95	24.37	25.11	23.77	25.5	
5	84QAM	1	24	24.00	23.56	24.09	24.61	23.46		
5	84QAM	12	0	22.49	22.43	23.21	23.99	23.08		
5	84QAM	12	7	22.66	22.44	23.33	24.04	22.99	24.5	
5	84QAM	12	13	22.80	22.53	23.37	23.83	22.72		
5	84QAM	25	0	22.62	22.54	23.29	23.92	22.83		



Band 42 (3.5GHz Band)							
Art. 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				43190	43340	43490	
Frequency (MHz)				3550	3575	3590	
20	QPSK	1	0	22.94	23.03	23.03	23.5
20	QPSK	1	49	22.98	23.01	23.06	
20	QPSK	1	99	22.89	22.94	22.97	
20	QPSK	50	0	22.03	22.08	22.12	22.5
20	QPSK	50	24	22.08	22.04	22.08	
20	QPSK	50	50	22.03	22.05	22.08	
20	QPSK	100	0	22.07	22.02	22.07	22.5
20	16QAM	1	0	22.09	22.11	22.17	
20	16QAM	1	49	22.04	22.08	22.12	
20	16QAM	1	99	22.00	22.04	22.07	21.5
20	16QAM	50	0	21.04	21.09	21.14	
20	16QAM	50	24	21.10	21.07	21.10	
20	16QAM	50	50	21.04	21.05	21.10	21.5
20	16QAM	100	0	21.07	21.03	21.09	
20	64QAM	1	0	20.70	20.81	20.75	
20	64QAM	1	49	20.75	20.84	20.66	21.5
20	64QAM	99	0	20.79	20.79	20.58	
20	64QAM	50	0	20.06	20.11	20.02	
20	64QAM	50	24	20.11	20.08	20.06	20.5
20	64QAM	50	50	20.05	20.08	19.95	
20	64QAM	100	0	20.09	20.03	19.94	
Channel				43195	43340	43515	
Frequency (MHz)				3575	3575	3597.5	
15	QPSK	1	0	22.85	22.94	22.94	23.5
15	QPSK	1	37	22.96	22.95	22.96	
15	QPSK	1	74	22.89	22.86	22.87	
15	QPSK	36	0	21.99	21.99	22.10	22.5
15	QPSK	36	20	21.98	21.97	22.04	
15	QPSK	36	39	22.00	22.04	22.05	
15	QPSK	75	0	22.01	22.00	21.98	22.5
15	16QAM	1	0	22.04	22.09	22.13	
15	16QAM	1	37	21.95	22.05	22.11	
15	16QAM	1	74	21.94	21.99	22.01	21.5
15	16QAM	36	0	20.99	21.07	21.12	
15	16QAM	36	20	21.08	20.97	21.06	
15	16QAM	36	39	20.97	21.01	21.07	21.5
15	16QAM	75	0	21.02	21.00	21.01	
15	64QAM	1	0	20.61	20.78	20.73	
15	64QAM	1	37	20.65	20.76	20.63	21.5
15	64QAM	1	74	20.79	20.75	20.68	
15	64QAM	36	0	20.03	20.03	19.92	
15	64QAM	36	20	20.05	20.08	20.03	20.5
15	64QAM	36	39	20.00	20.00	19.86	
15	64QAM	75	0	20.05	20.01	19.92	
Channel				43190	43340	43590	
Frequency (MHz)				3555	3575	3595	
10	QPSK	1	0	22.92	22.95	22.96	23.5
10	QPSK	1	25	22.93	22.93	23.05	
10	QPSK	1	49	22.80	22.87	22.94	
10	QPSK	25	0	21.96	22.02	22.09	22.5
10	QPSK	25	12	22.08	21.95	22.05	
10	QPSK	25	25	21.99	21.96	22.05	
10	QPSK	50	0	21.98	21.95	22.02	22.5
10	16QAM	1	0	22.01	22.02	22.10	
10	16QAM	1	25	21.99	22.05	22.10	
10	16QAM	1	49	21.96	21.96	21.98	21.5
10	16QAM	25	0	20.94	21.07	21.07	
10	16QAM	25	12	21.03	20.99	21.05	
10	16QAM	25	25	20.97	21.02	21.06	21.5
10	16QAM	50	0	21.05	20.94	20.99	
10	64QAM	1	0	20.70	20.79	20.67	
10	64QAM	1	25	20.73	20.76	20.59	21.5
10	64QAM	1	49	20.79	20.69	20.52	
10	64QAM	25	0	19.99	20.05	20.00	
10	64QAM	25	12	20.10	20.05	20.05	20.5
10	64QAM	25	25	19.98	20.02	19.89	
10	64QAM	50	0	20.09	19.94	19.89	
Channel				43115	43340	43565	
Frequency (MHz)				3562.5	3575	3597.5	
5	QPSK	1	0	22.92	23.01	22.97	23.5
5	QPSK	1	12	22.90	23.00	22.96	
5	QPSK	1	24	22.83	22.92	22.96	
5	QPSK	12	0	22.00	21.99	22.04	22.5
5	QPSK	12	7	22.05	22.00	22.01	
5	QPSK	12	13	21.99	21.96	22.02	
5	QPSK	25	0	22.03	21.93	22.02	22.5
5	16QAM	1	0	22.05	22.02	22.15	
5	16QAM	1	12	21.98	22.03	22.08	
5	16QAM	1	24	21.90	21.95	22.06	21.5
5	16QAM	12	0	21.04	21.02	21.09	
5	16QAM	12	7	21.08	21.00	21.04	
5	16QAM	12	13	20.98	21.05	21.10	21.5
5	16QAM	25	0	20.98	20.96	21.03	
5	64QAM	1	0	20.81	20.80	20.72	
5	64QAM	1	12	20.71	20.75	20.66	21.5
5	64QAM	1	24	20.75	20.72	20.52	
5	64QAM	12	0	19.96	20.02	19.99	
5	64QAM	12	7	20.05	20.00	19.98	20.5
5	64QAM	12	13	20.00	19.96	19.90	
5	64QAM	25	0	20.02	19.94	19.93	



Band 48 (3.5G Band)									
Airt 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	
Channel				55340	55830	56150	56640		
Frequency (MHz)				3550	3600	3641	3690		
20	QPSK	1	0	18.86	23.62	23.37	18.53	23.5	
20	QPSK	1	49	19.47	23.96	23.02	19.31		
20	QPSK	1	99	19.50	23.04	22.96	19.22	22.5	
20	QPSK	50	0	18.70	22.22	22.33	18.51		
20	QPSK	50	24	18.68	22.25	22.18	18.45	22.5	
20	QPSK	50	50	18.61	22.18	22.09	18.34		
20	QPSK	100	0	18.65	22.24	22.17	18.44	22.5	
20	16QAM	1	0	18.74	22.39	22.38	18.67		
20	16QAM	1	49	18.57	22.18	22.11	18.39	22.5	
20	16QAM	1	99	18.63	22.16	22.05	18.30		
20	16QAM	50	0	17.74	21.24	21.26	17.57	21.5	
20	16QAM	50	24	17.72	21.27	21.20	17.46		
20	16QAM	50	50	17.65	21.20	21.12	17.40	21.5	
20	16QAM	100	0	17.68	21.24	21.20	17.48		
20	64QAM	1	0	17.45	21.06	20.77	17.44	21.5	
20	64QAM	1	49	17.36	20.91	20.75	17.13		
20	64QAM	1	99	17.39	20.93	20.67	17.09	21.5	
20	64QAM	50	0	16.74	20.25	20.09	16.54		
20	64QAM	50	24	16.70	20.28	20.10	16.48	20.5	
20	64QAM	50	50	16.64	20.19	19.99	16.38		
20	64QAM	100	0	16.69	20.27	20.03	16.47	20.5	
Channel				55315	55820	56160	56655		
Frequency (MHz)				3557.5	3608	3642	3692.5		
15	QPSK	1	0	19.62	23.17	23.26	19.50	23.5	
15	QPSK	1	37	19.41	23.02	23.02	19.27		
15	QPSK	1	74	19.47	22.94	22.86	19.20	22.5	
15	QPSK	36	0	18.88	22.21	22.20	18.48		
15	QPSK	36	20	18.58	22.21	22.16	18.40	22.5	
15	QPSK	36	39	18.59	22.14	22.09	18.28		
15	QPSK	75	0	18.55	22.15	22.08	18.43	22.5	
15	16QAM	1	0	18.64	22.30	22.36	18.59		
15	16QAM	1	37	18.55	22.17	22.05	18.33	22.5	
15	16QAM	1	74	18.56	22.10	21.96	18.20		
15	16QAM	36	0	17.67	21.22	21.26	17.47	21.5	
15	16QAM	36	20	17.72	21.18	21.17	17.46		
15	16QAM	36	39	17.57	21.15	21.09	17.39	21.5	
15	16QAM	75	0	17.62	21.20	21.11	17.38		
15	64QAM	1	0	17.36	20.98	20.68	17.35	21.5	
15	64QAM	1	37	17.28	20.86	20.72	17.10		
15	64QAM	1	74	17.35	20.93	20.86	17.00	21.5	
15	64QAM	36	0	16.71	20.20	20.00	16.44		
15	64QAM	36	20	16.68	20.23	20.03	16.38	20.5	
15	64QAM	36	39	16.62	20.13	19.91	16.36		
15	64QAM	75	0	16.69	20.25	20.03	16.47	20.5	
Channel				55920	55915	56163	56990		
Frequency (MHz)				3555	3607.5	3642.5	3699.5		
10	QPSK	1	0	19.64	23.22	23.18	19.43	23.5	
10	QPSK	1	25	19.46	23.00	22.97	19.21		
10	QPSK	1	49	19.42	23.01	22.86	19.21	22.5	
10	QPSK	25	0	18.60	22.20	22.19	18.48		
10	QPSK	25	12	18.59	22.21	22.11	18.38	22.5	
10	QPSK	25	25	18.60	22.18	22.04	18.30		
10	QPSK	50	0	18.55	22.17	22.07	18.38	22.5	
10	16QAM	1	0	18.73	22.31	22.33	18.61		
10	16QAM	1	25	18.54	22.17	22.02	18.34	22.5	
10	16QAM	1	49	18.62	22.09	21.98	18.28		
10	16QAM	25	0	17.68	21.19	21.24	17.48	21.5	
10	16QAM	25	12	17.64	21.24	21.11	17.36		
10	16QAM	25	25	17.60	21.16	21.03	17.35	21.5	
10	16QAM	50	0	17.63	21.18	21.14	17.46		
10	64QAM	1	0	17.38	21.02	20.74	17.39	21.5	
10	64QAM	1	25	17.27	20.89	20.75	17.08		
10	64QAM	1	49	17.32	20.92	20.62	17.05	21.5	
10	64QAM	25	0	16.69	20.20	20.09	16.47		
10	64QAM	25	12	16.70	20.20	20.07	16.41	20.5	
10	64QAM	25	25	16.60	20.18	19.95	16.29		
10	64QAM	50	0	16.67	20.19	20.01	16.41	20.5	
Channel				55205	55810	56170	56915		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	19.56	23.20	23.23	19.52	23.5	
5	QPSK	1	12	19.40	22.99	23.01	19.22		
5	QPSK	1	24	19.50	22.96	22.96	19.17	22.5	
5	QPSK	12	0	18.62	22.19	22.17	18.48		
5	QPSK	12	7	18.68	22.15	22.13	18.40	22.5	
5	QPSK	12	13	18.56	22.10	22.09	18.31		
5	QPSK	25	0	18.62	22.15	22.15	18.37	22.5	
5	16QAM	1	0	18.73	22.37	22.31	18.62		
5	16QAM	1	12	18.56	22.16	22.05	18.35	22.5	
5	16QAM	1	24	18.63	22.15	21.98	18.23		
5	16QAM	12	0	17.67	21.14	21.16	17.62	21.5	
5	16QAM	12	7	17.71	21.26	21.13	17.38		
5	16QAM	12	13	17.60	21.13	21.06	17.35	21.5	
5	16QAM	25	0	17.61	21.15	21.10	17.41		
5	64QAM	1	0	17.43	21.01	20.67	17.37	21.5	
5	64QAM	1	12	17.31	20.86	20.73	17.08		
5	64QAM	1	24	17.33	20.87	20.64	17.03	21.5	
5	64QAM	12	0	16.88	20.17	20.03	16.48		
5	64QAM	12	7	16.65	20.24	20.10	16.45	20.5	
5	64QAM	12	13	16.55	20.13	19.89	16.35		
5	64QAM	25	0	16.56	20.19	19.97	16.40	20.5	



n2							
Act 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	375000	380000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.98	24.94	24.94	25.0
20	PI/2 BPSK	1	53	24.87	24.92	24.92	
20	PI/2 BPSK	1	104	24.94	24.88	24.95	
20	PI/2 BPSK	50	0	24.35	24.41	24.35	25.0
20	PI/2 BPSK	50	28	24.88	24.95	24.87	
20	PI/2 BPSK	50	56	24.78	24.79	24.82	
20	PI/2 BPSK	100	0	24.44	24.40	24.40	24.5
20	QPSK	1	1	24.95	24.93	24.93	25.0
20	QPSK	1	53	24.88	24.89	24.93	
20	QPSK	1	104	24.84	24.81	24.87	
20	QPSK	50	0	24.32	24.31	24.26	25.0
20	QPSK	50	28	24.92	24.95	24.97	
20	QPSK	50	56	24.25	24.24	24.29	
20	QPSK	100	0	23.90	23.94	23.94	24.0
20	16QAM	1	1	23.90	23.88	23.93	24.0
20	64QAM	1	1	22.40	22.45	22.37	22.5
20	256QAM	1	1	20.38	20.39	20.38	20.5
Channel				371500	376000	380500	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1860	1902.5	
15	PI/2 BPSK	1	1	24.90	24.95	24.93	25.0
Channel				371000	375000	381000	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.81	24.85	24.84	25.0
Channel				370500	376000	381500	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1860	1907.5	
5	PI/2 BPSK	1	1	24.90	24.93	24.89	25.0



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				168900	167900	167900	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.72	24.80	24.72	
20	PI/2 BPSK	1	53	24.63	24.60	24.58	25.0
20	PI/2 BPSK	1	104	24.45	24.38	24.43	
20	PI/2 BPSK	50	0	24.55	24.51	24.46	
20	PI/2 BPSK	50	28	24.46	24.33	24.42	25.0
20	PI/2 BPSK	50	56	24.41	24.43	24.45	
20	PI/2 BPSK	100	0	22.58	22.58	22.51	24.5
20	QPSK	1	1	24.74	24.76	24.74	
20	QPSK	1	53	24.66	24.60	24.66	25.0
20	QPSK	1	104	24.51	24.51	24.56	
20	QPSK	50	0	24.34	24.34	24.28	
20	QPSK	50	28	24.52	24.51	24.53	25.0
20	QPSK	50	56	24.35	24.31	24.38	
20	QPSK	100	0	23.90	23.98	23.93	24.0
20	16QAM	1	1	23.54	23.75	23.72	24.0
20	64QAM	1	1	22.45	22.49	22.41	22.5
20	256QAM	1	1	20.44	20.37	20.43	20.5
Channel				166300	167300	168300	
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.55	24.61	24.60	25.0
Channel				165900	167300	168900	
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.38	24.34	24.38	25.0
Channel				165300	167300	169300	
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.43	24.44	24.36	25.0



n7							
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				50000	50700	51200	
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	24.99	24.98	24.93	25.0
20	PI/2 BPSK	1	53	24.89	24.94	24.85	
20	PI/2 BPSK	1	104	24.93	24.95	24.96	
20	PI/2 BPSK	50	0	24.62	24.55	24.43	25.0
20	PI/2 BPSK	50	28	24.44	24.50	24.36	
20	PI/2 BPSK	50	56	24.29	24.30	24.32	
20	PI/2 BPSK	100	0	24.28	24.11	24.18	24.5
20	QPSK	1	1	24.90	24.95	24.91	25.0
20	QPSK	1	53	24.88	24.82	24.92	
20	QPSK	1	104	24.94	24.86	24.91	
20	QPSK	50	0	23.97	23.91	23.87	25.0
20	QPSK	50	28	24.90	24.87	24.89	
20	QPSK	50	56	23.93	23.85	23.90	
20	QPSK	100	0	23.77	23.77	23.77	24.0
20	16QAM	1	1	23.87	23.86	23.95	24.0
20	64QAM	1	1	22.47	22.41	22.39	22.5
20	256QAM	1	1	20.05	20.02	19.99	20.5
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	24.31	24.36	24.36	25.0
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	24.43	24.36	24.36	25.0
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	24.83	24.91	24.85	25.0



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				37000	37500	381000	
Frequency (MHz)				1850	1852.5	1905	
20	PI/2 BPSK	1	1	24.95	24.99	24.95	
20	PI/2 BPSK	1	53	24.93	24.94	24.91	25.0
20	PI/2 BPSK	1	104	24.90	24.83	24.83	
20	PI/2 BPSK	50	0	24.75	24.84	24.77	
20	PI/2 BPSK	50	28	24.67	24.79	24.79	25.0
20	PI/2 BPSK	50	56	24.65	24.68	24.66	
20	PI/2 BPSK	100	0	24.44	24.52	24.43	24.5
20	QPSK	1	1	24.97	24.94	24.90	
20	QPSK	1	53	24.91	24.84	24.83	25.0
20	QPSK	1	104	24.88	24.85	24.90	
20	QPSK	50	0	24.18	24.26	24.16	
20	QPSK	50	28	24.80	24.79	24.85	25.0
20	QPSK	50	56	24.22	24.19	24.19	
20	QPSK	100	0	23.82	23.86	23.90	24.0
20	16QAM	1	1	23.95	23.93	23.97	24.0
20	64QAM	1	1	22.40	22.38	22.43	22.5
20	256QAM	1	1	20.39	20.35	20.42	20.5
Channel				371500	376000	381500	
Frequency (MHz)				1857.5	1880	1907.5	
15	PI/2 BPSK	1	1	24.91	24.85	24.92	25.0
Channel				371000	376000	382000	
Frequency (MHz)				1855	1880	1910	
10	PI/2 BPSK	1	1	24.90	24.91	24.86	25.0
Channel				370500	376000	382500	
Frequency (MHz)				1852.5	1880	1912.5	
5	PI/2 BPSK	1	1	24.82	24.86	24.81	25.0



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				134500	136100	137600	
Frequency (MHz)				673	680.5	686	
20	PI/2 BPSK	1	1	24.86	24.97	24.89	
20	PI/2 BPSK	1	53	24.74	24.75	24.77	25.0
20	PI/2 BPSK	1	104	24.65	24.69	24.71	
20	PI/2 BPSK	50	0	24.55	24.61	24.62	
20	PI/2 BPSK	50	28	24.49	24.55	24.61	25.0
20	PI/2 BPSK	50	56	24.44	24.43	24.46	
20	PI/2 BPSK	100	0	24.43	24.48	24.40	24.5
20	QPSK	1	1	24.89	24.86	24.87	
20	QPSK	1	53	24.80	24.78	24.84	25.0
20	QPSK	1	104	24.67	24.63	24.67	
20	QPSK	50	0	24.07	24.11	24.11	
20	QPSK	50	28	24.79	24.80	24.76	25.0
20	QPSK	50	56	23.96	23.93	23.96	
20	QPSK	100	0	23.84	23.88	23.90	24.0
20	16QAM	1	1	23.94	23.91	23.93	24.0
20	64QAM	1	1	22.36	22.46	22.39	22.5
20	256QAM	1	1	20.31	20.39	20.31	20.5
Channel				134100	136100	138100	
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.78	24.85	24.79	25.0
Channel				133600	136100	138600	
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.64	24.65	24.68	25.0
Channel				133100	136100	139100	
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.74	24.70	24.78	25.0



n12							
Act 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)				705.5	707.5	709.5	
15	PI/2 BPSK	1	1	24.56	24.64	24.64	25.0
15	PI/2 BPSK	1	40	24.35	24.31	24.26	
15	PI/2 BPSK	1	77	24.19	24.23	24.26	
15	PI/2 BPSK	36	0	24.10	24.24	24.16	25.0
15	PI/2 BPSK	36	22	24.10	24.17	24.11	
15	PI/2 BPSK	36	43	24.10	24.10	24.09	
15	PI/2 BPSK	75	0	24.17	24.18	24.12	24.5
15	QPSK	1	1	24.63	24.63	24.59	25.0
15	QPSK	1	40	24.38	24.40	24.44	
15	QPSK	1	77	24.32	24.28	24.25	
15	QPSK	36	0	24.04	24.10	24.11	25.0
15	QPSK	36	22	24.20	24.19	24.12	
15	QPSK	36	43	24.05	24.06	24.06	
15	QPSK	75	0	23.91	23.62	23.89	24.0
15	16QAM	1	1	23.86	23.95	23.96	24.0
15	64QAM	1	1	22.45	22.39	22.44	22.5
15	256QAM	1	1	20.34	20.40	20.37	20.5
Channel				140800	141500	142200	
Frequency (MHz)				705	707.5	711	
10	PI/2 BPSK	1	1	24.24	24.22	24.22	25.0
Channel				140300	141500	142700	
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.29	24.26	24.30	25.0



n66							
Act 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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.95	24.97	24.93	
40	PI/2 BPSK	1	108	24.94	24.89	24.91	25.0
40	PI/2 BPSK	1	214	24.85	24.88	24.84	
40	PI/2 BPSK	108	0	24.67	24.74	24.66	
40	PI/2 BPSK	108	54	24.64	24.69	24.62	25.0
40	PI/2 BPSK	108	108	24.57	24.67	24.62	
40	PI/2 BPSK	216	0	24.41	24.42	24.34	24.5
40	QPSK	1	1	24.91	24.93	24.90	
40	QPSK	1	108	24.45	24.44	24.39	25.0
40	QPSK	1	214	24.45	24.47	24.45	
40	QPSK	108	0	24.61	24.59	24.60	
40	QPSK	108	54	24.72	24.69	24.72	25.0
40	QPSK	108	108	24.57	24.56	24.60	
40	QPSK	216	0	23.51	23.53	23.51	24.0
40	16QAM	1	1	23.89	23.90	23.91	24.0
40	64QAM	1	1	22.41	22.37	22.34	22.5
40	256QAM	1	1	20.39	20.35	20.34	20.5
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	24.48	24.55	24.53	25.0
Channel				343500	349000	355000	
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.33	24.28	24.38	25.0
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	24.29	24.34	24.29	25.0
Channel				342500	349000	355000	
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.29	24.29	24.34	25.0



n2							
Act 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				37200	37500	38000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	24.89	24.97	24.86	25.0
20	PI/2 BPSK	1	53	24.89	24.81	24.91	
20	PI/2 BPSK	1	104	24.70	24.74	24.76	
20	PI/2 BPSK	50	0	24.65	24.69	24.69	25.0
20	PI/2 BPSK	50	28	24.89	24.87	24.93	
20	PI/2 BPSK	50	56	24.61	24.62	24.69	
20	PI/2 BPSK	100	0	24.40	24.32	24.32	24.5
20	QPSK	1	1	24.76	24.85	24.82	25.0
20	QPSK	1	53	24.86	24.85	24.84	
20	QPSK	1	104	24.78	24.79	24.75	
20	QPSK	50	0	24.62	24.57	24.63	25.0
20	QPSK	50	28	24.72	24.70	24.74	
20	QPSK	50	56	24.64	24.62	24.58	
20	QPSK	100	0	23.50	23.57	23.53	24.0
20	16QAM	1	1	23.93	23.96	23.94	24.0
20	64QAM	1	1	22.47	22.43	22.45	22.5
20	256QAM	1	1	20.43	20.43	20.46	20.5
Channel				371500	376000	380500	
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	24.83	24.80	24.76	25.0
Channel				371000	375500	381000	
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	24.67	24.68	24.75	25.0
Channel				370500	376000	381500	
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	24.61	24.58	24.62	25.0



n5							
Ant 1							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				168300	167300	167600	
Frequency (MHz)				834	836.5	839	
20	PI/2 BPSK	1	1	24.84	24.97	24.77	
20	PI/2 BPSK	1	53	24.48	24.50	24.48	25.0
20	PI/2 BPSK	1	104	24.24	24.23	24.23	
20	PI/2 BPSK	50	0	24.72	24.75	24.69	
20	PI/2 BPSK	50	28	24.50	24.55	24.52	25.0
20	PI/2 BPSK	50	56	24.20	24.18	24.16	
20	PI/2 BPSK	100	0	22.55	22.55	22.57	24.5
20	QPSK	1	1	24.62	24.64	24.56	
20	QPSK	1	53	24.51	24.61	24.62	25.0
20	QPSK	1	104	24.27	24.36	24.36	
20	QPSK	50	0	24.54	24.54	24.45	
20	QPSK	50	28	24.38	24.45	24.46	25.0
20	QPSK	50	56	24.14	24.11	24.09	
20	QPSK	100	0	23.95	23.85	23.89	24.0
20	16QAM	1	1	23.93	23.65	23.96	24.0
20	64QAM	1	1	22.32	22.38	22.36	22.5
20	256QAM	1	1	20.36	20.38	20.34	20.5
Channel				166300	167300	168300	
Frequency (MHz)				831.5	836.5	841.5	
15	PI/2 BPSK	1	1	24.26	24.27	24.32	25.0
Channel				165800	167300	168300	
Frequency (MHz)				829	836.5	844	
10	PI/2 BPSK	1	1	24.33	24.31	24.28	25.0
Channel				165300	167300	168300	
Frequency (MHz)				826.5	836.5	846.5	
5	PI/2 BPSK	1	1	24.26	24.34	24.35	25.0



n7							
Ant 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				2610	2535	2560	
Frequency (MHz)							
20	PI/2 BPSK	1	1	24.67	24.67	24.77	25.0
20	PI/2 BPSK	1	53	24.67	24.58	24.64	
20	PI/2 BPSK	1	104	24.63	24.62	24.64	
20	PI/2 BPSK	50	0	24.53	24.55	24.55	25.0
20	PI/2 BPSK	50	28	24.45	24.43	24.44	
20	PI/2 BPSK	50	56	24.47	24.50	24.53	
20	PI/2 BPSK	100	0	24.35	24.38	24.40	24.5
20	QPSK	1	1	24.57	24.59	24.64	25.0
20	QPSK	1	53	24.61	24.56	24.63	
20	QPSK	1	104	24.82	24.61	24.59	
20	QPSK	50	0	24.17	24.11	24.20	25.0
20	QPSK	50	28	24.55	24.54	24.52	
20	QPSK	50	56	24.26	24.22	24.22	
20	QPSK	100	0	23.90	23.91	23.91	24.0
20	16QAM	1	1	23.83	23.85	23.85	24.0
20	64QAM	1	1	22.46	22.46	22.41	22.5
20	256QAM	1	1	20.43	20.46	20.41	20.5
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	24.50	24.60	24.65	25.0
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	24.36	24.32	24.35	25.0
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	24.44	24.41	24.45	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				37000	37000	381000	
Frequency (MHz)				1850	1850	1905	
20	PI/2 BPSK	1	1	24.91	24.91	24.90	
20	PI/2 BPSK	1	53	24.77	24.77	24.78	25.0
20	PI/2 BPSK	1	104	24.75	24.78	24.74	
20	PI/2 BPSK	50	0	24.65	24.65	24.67	
20	PI/2 BPSK	50	28	24.60	24.57	24.60	25.0
20	PI/2 BPSK	50	56	24.53	24.54	24.57	
20	PI/2 BPSK	100	0	24.33	24.47	24.43	24.5
20	QPSK	1	1	24.27	24.29	24.27	
20	QPSK	1	53	24.75	24.75	24.74	25.0
20	QPSK	1	104	24.67	24.66	24.70	
20	QPSK	50	0	24.59	24.55	24.51	
20	QPSK	50	28	24.62	24.62	24.62	25.0
20	QPSK	50	56	24.54	24.57	24.56	
20	QPSK	100	0	23.91	23.96	23.90	24.0
20	16QAM	1	1	23.80	23.82	23.81	24.0
20	64QAM	1	1	22.35	22.39	22.45	22.5
20	256QAM	1	1	20.43	20.47	20.46	20.5
Channel				371500	376000	381500	
Frequency (MHz)				1837.5	1850	1907.5	
15	PI/2 BPSK	1	1	24.74	24.70	24.70	25.0
Channel				371000	376000	382000	
Frequency (MHz)				1855	1850	1910	
10	PI/2 BPSK	1	1	24.65	24.70	24.62	25.0
Channel				370500	376000	382500	
Frequency (MHz)				1832.5	1850	1912.5	
5	PI/2 BPSK	1	1	24.59	24.61	24.57	25.0



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				134500	136100	137600	
Frequency (MHz)				673	680.5	686	
20	PI/2 BPSK	1	1	24.81	24.88	24.86	25.0
20	PI/2 BPSK	1	53	24.67	24.66	24.74	
20	PI/2 BPSK	1	104	24.62	24.68	24.61	
20	PI/2 BPSK	50	0	24.57	24.65	24.55	25.0
20	PI/2 BPSK	50	28	24.57	24.60	24.48	
20	PI/2 BPSK	50	56	24.43	24.43	24.47	
20	PI/2 BPSK	100	0	22.67	22.74	22.56	24.5
20	QPSK	1	1	24.84	24.85	24.84	25.0
20	QPSK	1	53	24.83	24.83	24.86	
20	QPSK	1	104	24.74	24.80	24.78	
20	QPSK	50	0	24.11	24.12	24.20	25.0
20	QPSK	50	28	24.79	24.81	24.75	
20	QPSK	50	56	23.98	24.06	24.00	
20	QPSK	100	0	23.83	23.77	23.83	24.0
20	16QAM	1	1	23.99	23.97	23.90	24.0
20	64QAM	1	1	22.38	22.40	22.42	22.5
20	256QAM	1	1	20.35	20.35	20.33	20.5
Channel				134100	136100	138100	limit
Frequency (MHz)				670.5	680.5	690.5	
15	PI/2 BPSK	1	1	24.83	24.81	24.79	25.0
Channel				133600	136100	138600	limit
Frequency (MHz)				668	680.5	693	
10	PI/2 BPSK	1	1	24.79	24.80	24.81	25.0
Channel				133100	136100	139100	limit
Frequency (MHz)				665.5	680.5	695.5	
5	PI/2 BPSK	1	1	24.74	24.70	24.79	25.0



n12							
Act 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)				705.5	707.5	709.5	
15	PI/2 BPSK	1	1	24.43	24.44	24.41	25.0
15	PI/2 BPSK	1	40	24.28	24.24	24.28	
15	PI/2 BPSK	1	77	24.14	24.10	24.14	
15	PI/2 BPSK	36	0	24.24	24.25	24.20	25.0
15	PI/2 BPSK	36	22	24.22	24.17	24.19	
15	PI/2 BPSK	36	43	24.11	24.10	24.18	
15	PI/2 BPSK	75	0	24.17	24.18	24.09	24.5
15	QPSK	1	1	24.34	24.34	24.29	25.0
15	QPSK	1	40	24.33	24.34	24.33	
15	QPSK	1	77	24.18	24.09	24.13	
15	QPSK	36	0	24.09	24.06	24.10	25.0
15	QPSK	36	22	24.15	24.14	24.23	
15	QPSK	36	43	24.05	24.00	24.04	
15	QPSK	75	0	23.87	23.88	23.88	24.0
15	16QAM	1	1	23.90	23.91	23.87	24.0
15	64QAM	1	1	22.45	22.42	22.40	22.5
15	256QAM	1	1	20.36	20.36	20.41	20.5
Channel				140800	141500	142200	
Frequency (MHz)				704	707.5	711	
10	PI/2 BPSK	1	1	24.25	24.18	24.18	25.0
Channel				140300	141500	142700	
Frequency (MHz)				701.5	707.5	713.5	
5	PI/2 BPSK	1	1	24.31	24.32	24.22	25.0



n66							
Act 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				346000	349000	352000	
Frequency (MHz)				1730	1745	1760	
40	PI/2 BPSK	1	1	24.80	24.85	24.86	
40	PI/2 BPSK	1	108	23.78	23.81	23.80	25.0
40	PI/2 BPSK	1	214	23.77	23.75	23.75	
40	PI/2 BPSK	108	0	24.72	24.77	24.79	
40	PI/2 BPSK	108	54	23.69	23.69	23.66	25.0
40	PI/2 BPSK	108	108	23.83	23.83	23.83	
40	PI/2 BPSK	216	0	24.42	24.48	24.44	24.5
40	QPSK	1	1	23.79	23.81	23.86	
40	QPSK	1	108	23.72	23.82	23.82	25.0
40	QPSK	1	214	23.73	23.72	23.71	
40	QPSK	108	0	23.76	23.85	23.80	
40	QPSK	108	54	24.57	24.64	24.63	25.0
40	QPSK	108	108	24.77	24.82	24.84	
40	QPSK	216	0	23.23	23.29	23.20	24.0
40	16QAM	1	1	22.74	22.74	22.69	24.0
40	64QAM	1	1	22.41	22.39	22.34	22.5
40	256QAM	1	1	21.45	21.45	21.39	20.5
Channel				344000	349000	354000	
Frequency (MHz)				1720	1745	1770	
20	PI/2 BPSK	1	1	23.94	24.00	24.00	25.0
Channel				343500	349000	354500	
Frequency (MHz)				1717.5	1745	1772.5	
15	PI/2 BPSK	1	1	24.09	24.09	24.08	25.0
Channel				343000	349000	355000	
Frequency (MHz)				1715	1745	1775	
10	PI/2 BPSK	1	1	23.50	23.89	23.91	25.0
Channel				342500	349000	355500	
Frequency (MHz)				1712.5	1745	1777.5	
5	PI/2 BPSK	1	1	24.27	24.30	24.23	25.0



n2							
Act 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				37200	37600	38000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.96	22.94	22.91	24.9
20	PI/2 BPSK	1	53	22.94	22.94	22.90	
20	PI/2 BPSK	1	104	22.92	22.94	22.90	
20	PI/2 BPSK	50	0	22.91	22.90	22.92	24.9
20	PI/2 BPSK	50	28	22.92	22.90	22.91	
20	PI/2 BPSK	50	56	22.93	22.90	22.91	
20	PI/2 BPSK	100	0	22.90	22.90	22.90	24.9
20	QPSK	1	1	22.76	22.64	22.56	24.0
20	QPSK	1	53	22.68	22.66	22.54	
20	QPSK	1	104	22.71	22.73	22.58	
20	QPSK	50	0	22.75	22.63	22.49	24.0
20	QPSK	50	28	22.68	22.69	22.56	
20	QPSK	50	56	22.71	22.76	22.53	
20	QPSK	100	0	22.72	22.70	22.55	24.0
20	16QAM	1	1	22.76	22.75	22.57	24.0
20	64QAM	1	1	21.16	21.10	21.14	22.5
20	256QAM	1	1	19.29	19.11	19.15	20.5
Channel				371500	376000	380500	
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	22.96	22.94	22.93	24.9
Channel				371000	376000	381000	
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	22.95	22.94	22.91	24.9
Channel				370500	376000	381500	
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	22.95	22.93	22.91	24.9



n7							
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				50000	50700	51200	
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	20.82	20.76	20.66	22.6
20	PI/2 BPSK	1	53	20.81	20.75	20.66	
20	PI/2 BPSK	1	104	20.80	20.75	20.62	
20	PI/2 BPSK	50	0	20.78	20.75	20.64	22.6
20	PI/2 BPSK	50	28	20.77	20.72	20.63	
20	PI/2 BPSK	50	56	20.77	20.71	20.61	
20	PI/2 BPSK	100	0	20.75	20.71	20.63	22.6
20	QPSK	1	1	20.74	20.69	20.60	22.6
20	QPSK	1	53	20.75	20.70	20.64	
20	QPSK	1	104	20.74	20.68	20.63	
20	QPSK	50	0	20.75	20.72	20.65	22.6
20	QPSK	50	28	20.75	20.70	20.61	
20	QPSK	50	56	20.76	20.71	20.63	
20	QPSK	100	0	20.65	20.60	20.64	22.6
20	16QAM	1	1	20.63	20.65	20.52	22.6
20	64QAM	1	1	20.82	20.61	20.54	22.5
20	256QAM	1	1	19.29	19.15	19.05	20.5
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	20.74	20.67	20.68	22.6
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	20.74	20.68	20.60	22.6
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	20.69	20.67	20.61	22.6



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				37000	37600	38100	
Frequency (MHz)				1850	1880	1905	
20	PI/2 BPSK	1	1	22.98	22.93	22.95	24.9
20	PI/2 BPSK	1	53	22.96	22.92	22.92	
20	PI/2 BPSK	1	104	22.94	22.90	22.94	
20	PI/2 BPSK	50	0	22.97	22.91	22.93	24.9
20	PI/2 BPSK	50	28	22.94	22.91	22.92	
20	PI/2 BPSK	50	56	22.92	22.90	22.92	
20	PI/2 BPSK	100	0	22.91	22.90	22.90	24.9
20	QPSK	1	1	22.95	22.92	22.92	24.9
20	QPSK	1	53	22.94	22.92	22.90	
20	QPSK	1	104	22.93	22.91	22.91	
20	QPSK	50	0	22.87	22.72	22.57	24.0
20	QPSK	50	28	22.78	22.81	22.58	
20	QPSK	50	56	22.83	22.76	22.55	
20	QPSK	100	0	22.73	22.67	22.54	24.0
20	16QAM	1	1	22.89	22.85	22.76	24.0
20	64QAM	1	1	21.33	21.24	21.17	22.5
20	256QAM	1	1	19.34	19.25	19.17	20.5
Channel				371500	376000	381500	limit
Frequency (MHz)				1857.5	1880	1907.5	limit
15	PI/2 BPSK	1	1	22.94	22.94	22.90	24.9
Channel				371000	376000	382000	limit
Frequency (MHz)				1855	1880	1910	limit
10	PI/2 BPSK	1	1	22.90	22.93	22.91	24.9
Channel				370500	376000	382500	limit
Frequency (MHz)				1852.5	1880	1912.5	limit
5	PI/2 BPSK	1	1	22.92	22.90	22.92	24.9



n7							
Act 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				50000	50700	51500	
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	23.88	23.84	23.75	25.0
20	PI/2 BPSK	1	53	23.86	23.83	23.72	
20	PI/2 BPSK	1	104	23.84	23.82	23.71	
20	PI/2 BPSK	50	0	23.84	23.76	23.75	25.0
20	PI/2 BPSK	50	28	23.82	23.79	23.74	
20	PI/2 BPSK	50	56	23.80	23.77	23.70	
20	PI/2 BPSK	100	0	23.80	23.76	23.70	24.5
20	QPSK	1	1	23.86	23.82	23.67	25.0
20	QPSK	1	53	23.85	23.83	23.71	
20	QPSK	1	104	23.82	23.80	23.66	
20	QPSK	50	0	23.80	23.77	23.72	25.0
20	QPSK	50	28	23.81	23.81	23.74	
20	QPSK	50	56	23.83	23.79	23.71	
20	QPSK	100	0	22.79	22.76	22.62	24.0
20	16QAM	1	1	22.85	22.81	22.74	24.0
20	64QAM	1	1	21.39	21.34	21.26	22.5
20	256QAM	1	1	19.41	19.30	19.26	20.5
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.81	23.81	23.68	25.0
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.83	23.74	23.73	25.0
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.80	23.75	23.66	25.0



n2							
Act 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				37200	37500	38000	
Frequency (MHz)				1860	1880	1900	
20	PI/2 BPSK	1	1	22.86	22.77	22.71	24.1
20	PI/2 BPSK	1	53	22.84	22.74	22.65	
20	PI/2 BPSK	1	104	22.77	22.74	22.66	
20	PI/2 BPSK	50	0	22.79	22.66	22.59	24.1
20	PI/2 BPSK	50	28	22.77	22.65	22.52	
20	PI/2 BPSK	50	56	22.73	22.60	22.52	
20	PI/2 BPSK	100	0	22.69	22.68	22.58	24.1
20	QPSK	1	1	22.76	22.64	22.56	24.0
20	QPSK	1	53	22.68	22.66	22.54	
20	QPSK	1	104	22.71	22.73	22.58	
20	QPSK	50	0	22.75	22.63	22.49	24.0
20	QPSK	50	28	22.68	22.69	22.56	
20	QPSK	50	56	22.71	22.76	22.53	
20	QPSK	100	0	22.72	22.70	22.55	24.0
20	16QAM	1	1	22.76	22.75	22.67	24.0
20	64QAM	1	1	21.16	21.10	21.14	22.5
20	256QAM	1	1	19.29	19.11	19.15	20.5
Channel				371500	376000	380500	
Frequency (MHz)				1857.5	1880	1902.5	
15	PI/2 BPSK	1	1	22.86	22.76	22.76	24.1
Channel				371000	375000	381000	
Frequency (MHz)				1855	1880	1905	
10	PI/2 BPSK	1	1	22.67	22.59	22.71	24.1
Channel				370500	376000	381500	
Frequency (MHz)				1852.5	1880	1907.5	
5	PI/2 BPSK	1	1	22.70	22.60	22.64	24.1



n7							
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				25000	50700	51250	
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	18.22	18.01	17.77	19.2
20	PI/2 BPSK	1	53	18.20	18.00	17.74	
20	PI/2 BPSK	1	104	18.18	17.94	17.72	
20	PI/2 BPSK	50	0	17.88	17.76	17.65	19.2
20	PI/2 BPSK	50	28	17.88	17.77	17.62	
20	PI/2 BPSK	50	56	17.86	17.76	17.63	
20	PI/2 BPSK	100	0	17.86	17.77	17.64	19.2
20	QPSK	1	1	18.20	17.91	17.77	19.2
20	QPSK	1	53	18.16	17.95	17.69	
20	QPSK	1	104	18.18	17.94	17.67	
20	QPSK	50	0	17.88	17.78	17.69	19.2
20	QPSK	50	28	17.84	17.79	17.65	
20	QPSK	50	56	17.80	17.75	17.67	
20	QPSK	100	0	17.82	17.73	17.68	19.2
20	16QAM	1	1	17.85	17.74	17.62	19.2
20	64QAM	1	1	17.55	17.70	17.71	19.2
20	256QAM	1	1	17.29	17.20	17.54	19.2
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	18.20	17.83	17.72	19.2
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	18.12	18.00	17.73	19.2
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	18.13	18.00	17.72	19.2



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				37000	37000	381000	
Frequency (MHz)				1850	1850	1905	
20	PI/2 BPSK	1	1	22.98	22.93	22.80	
20	PI/2 BPSK	1	53	22.96	22.92	22.78	24.1
20	PI/2 BPSK	1	104	22.94	22.90	22.74	
20	PI/2 BPSK	50	0	22.87	22.81	22.59	
20	PI/2 BPSK	50	28	22.84	22.81	22.64	24.1
20	PI/2 BPSK	50	56	22.86	22.78	22.62	
20	PI/2 BPSK	100	0	22.81	22.76	22.55	24.1
20	QPSK	1	1	22.89	22.85	22.75	
20	QPSK	1	53	22.94	22.82	22.70	24.0
20	QPSK	1	104	22.83	22.86	22.71	
20	QPSK	50	0	22.87	22.72	22.57	
20	QPSK	50	28	22.78	22.81	22.58	24.0
20	QPSK	50	56	22.83	22.76	22.55	
20	QPSK	100	0	22.73	22.67	22.54	24.0
20	16QAM	1	1	22.89	22.85	22.76	24.0
20	64QAM	1	1	21.33	21.24	21.17	22.5
20	256QAM	1	1	19.34	19.25	19.17	20.5
Channel				371500	376000	381500	
Frequency (MHz)				1857.5	1850	1907.5	
15	PI/2 BPSK	1	1	22.94	22.84	22.72	24.1
Channel				371000	376000	382000	
Frequency (MHz)				1855	1850	1910	
10	PI/2 BPSK	1	1	22.90	22.89	22.80	24.1
Channel				370500	376000	382500	
Frequency (MHz)				1852.5	1850	1912.5	
5	PI/2 BPSK	1	1	22.89	22.90	22.72	24.1



n7							
Act 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 80200	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 512000	Tune-up limit (dBm)
Channel				2510	2535	2560	
Frequency (MHz)							
20	PI/2 BPSK	1	1	23.88	23.84	23.75	24.8
20	PI/2 BPSK	1	53	23.86	23.83	23.72	
20	PI/2 BPSK	1	104	23.84	23.82	23.71	
20	PI/2 BPSK	50	0	23.84	23.76	23.75	24.8
20	PI/2 BPSK	50	28	23.82	23.79	23.74	
20	PI/2 BPSK	50	56	23.80	23.77	23.70	
20	PI/2 BPSK	100	0	23.80	23.76	23.70	24.5
20	QPSK	1	1	23.86	23.82	23.67	24.8
20	QPSK	1	53	23.85	23.83	23.71	
20	QPSK	1	104	23.82	23.80	23.66	
20	QPSK	50	0	23.80	23.77	23.72	24.8
20	QPSK	50	28	23.81	23.81	23.74	
20	QPSK	50	56	23.83	23.79	23.71	
20	QPSK	100	0	22.79	22.76	22.62	24.0
20	16QAM	1	1	22.85	22.81	22.74	24.0
20	64QAM	1	1	21.39	21.34	21.26	22.5
20	256QAM	1	1	19.41	19.30	19.26	20.5
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.82	23.80	23.64	24.8
15	QPSK	1	1	23.84	23.76	23.64	24.8
15	16QAM	1	1	22.85	22.73	22.66	24.0
15	64QAM	1	1	21.31	21.30	21.21	22.5
15	256QAM	1	1	19.39	19.24	19.25	20.5
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.85	23.81	23.67	24.8
10	QPSK	1	1	23.79	23.76	23.71	24.8
10	16QAM	1	1	22.76	22.72	22.71	24.0
10	64QAM	1	1	21.29	21.31	21.24	22.5
10	256QAM	1	1	19.31	19.28	19.24	20.5
Channel				509500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.83	23.74	23.74	24.8
5	QPSK	1	1	23.78	23.80	23.64	24.8
5	16QAM	1	1	22.85	22.78	22.73	24.0
5	64QAM	1	1	21.32	21.24	21.20	22.5
5	256QAM	1	1	19.32	19.23	19.23	20.5



n2							
Act 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				37200	37600	38000	
Frequency (MHz)				1880	1880	1900	
20	PI/2 BPSK	1	1	22.96	22.94	22.91	24.1
20	PI/2 BPSK	1	53	22.94	22.94	22.90	
20	PI/2 BPSK	1	104	22.92	22.94	22.90	
20	PI/2 BPSK	50	0	22.91	22.90	22.92	24.1
20	PI/2 BPSK	50	28	22.92	22.90	22.91	
20	PI/2 BPSK	50	56	22.93	22.90	22.91	
20	PI/2 BPSK	100	0	22.90	22.90	22.90	24.1
20	QPSK	1	1	22.76	22.64	22.56	24.0
20	QPSK	1	53	22.68	22.66	22.54	
20	QPSK	1	104	22.71	22.73	22.58	
20	QPSK	50	0	22.75	22.63	22.49	24.0
20	QPSK	50	28	22.68	22.69	22.56	
20	QPSK	50	56	22.71	22.76	22.53	
20	QPSK	100	0	22.72	22.70	22.55	24.0
20	16QAM	1	1	22.76	22.75	22.67	24.0
20	64QAM	1	1	21.16	21.10	21.14	22.5
20	256QAM	1	1	19.29	19.11	19.15	20.5
Channel				371500	376000	380500	
Frequency (MHz)				1857.5	1860	1902.5	
15	PI/2 BPSK	1	1	22.96	22.94	22.93	24.1
15	QPSK	1	1	22.92	22.93	22.92	24.1
15	16QAM	1	1	22.73	22.68	22.71	24.0
15	64QAM	1	1	21.19	21.12	21.15	22.5
15	256QAM	1	1	19.24	19.12	19.23	20.5
Channel				371000	376000	381000	
Frequency (MHz)				1855	1860	1905	
10	PI/2 BPSK	1	1	22.96	22.94	22.91	24.1
10	QPSK	1	1	22.96	22.93	22.91	24.1
10	16QAM	1	1	22.71	22.62	22.67	24.0
10	64QAM	1	1	21.10	21.02	21.12	22.5
10	256QAM	1	1	19.14	19.06	19.17	20.5
Channel				370500	376000	381500	
Frequency (MHz)				1852.5	1860	1907.5	
5	PI/2 BPSK	1	1	22.95	22.93	22.91	24.1
5	QPSK	1	1	22.93	22.91	22.90	24.1
5	16QAM	1	1	22.65	22.62	22.63	24.0
5	64QAM	1	1	21.17	21.02	21.06	22.5
5	256QAM	1	1	19.24	19.02	19.17	20.5



n7							
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				50000	50700	51200	
Frequency (MHz)				2510	2535	2560	
20	PI/2 BPSK	1	1	20.82	20.76	20.66	21.8
20	PI/2 BPSK	1	53	20.81	20.75	20.66	
20	PI/2 BPSK	1	104	20.80	20.75	20.62	
20	PI/2 BPSK	50	0	20.78	20.73	20.64	21.8
20	PI/2 BPSK	50	28	20.77	20.72	20.63	
20	PI/2 BPSK	50	56	20.77	20.71	20.61	
20	PI/2 BPSK	100	0	20.75	20.71	20.63	21.8
20	QPSK	1	1	20.74	20.69	20.60	21.8
20	QPSK	1	53	20.75	20.70	20.64	
20	QPSK	1	104	20.74	20.68	20.63	
20	QPSK	50	0	20.75	20.72	20.65	21.8
20	QPSK	50	28	20.75	20.70	20.61	
20	QPSK	50	56	20.76	20.71	20.63	
20	QPSK	100	0	20.65	20.60	20.64	21.8
20	16QAM	1	1	20.63	20.65	20.52	21.8
20	64QAM	1	1	20.62	20.61	20.54	21.8
20	256QAM	1	1	19.29	19.15	19.05	20.5
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	20.74	20.67	20.68	21.8
15	QPSK	1	1	20.69	20.61	20.67	21.8
15	16QAM	1	1	20.61	20.65	20.69	21.8
15	64QAM	1	1	20.62	20.51	20.51	21.8
15	256QAM	1	1	19.27	19.15	19.05	20.5
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	20.74	20.68	20.60	21.8
10	QPSK	1	1	20.67	20.68	20.68	21.8
10	16QAM	1	1	20.65	20.68	20.65	21.8
10	64QAM	1	1	20.67	20.53	20.58	21.8
10	256QAM	1	1	19.26	19.08	19.01	20.5
Channel				500500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	20.69	20.67	20.61	21.8
5	QPSK	1	1	20.72	20.61	20.67	21.8
5	16QAM	1	1	20.62	20.62	20.64	21.8
5	64QAM	1	1	20.60	20.59	20.58	21.8
5	256QAM	1	1	19.27	19.13	19.03	20.5



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				376000	376000	381000	
Frequency (MHz)				1860	1880	1905	
20	PI/2 BPSK	1	1	22.98	22.93	22.95	
20	PI/2 BPSK	1	53	22.96	22.92	22.92	24.1
20	PI/2 BPSK	1	104	22.94	22.90	22.94	
20	PI/2 BPSK	50	0	22.97	22.91	22.93	
20	PI/2 BPSK	50	28	22.94	22.91	22.92	24.1
20	PI/2 BPSK	50	56	22.92	22.90	22.92	
20	PI/2 BPSK	100	0	22.91	22.90	22.90	24.1
20	QPSK	1	1	22.95	22.92	22.92	
20	QPSK	1	53	22.94	22.92	22.90	24.9
20	QPSK	1	104	22.93	22.91	22.91	
20	QPSK	50	0	22.87	22.72	22.57	
20	QPSK	50	28	22.78	22.81	22.58	24.0
20	QPSK	50	56	22.83	22.76	22.55	
20	QPSK	100	0	22.73	22.67	22.54	24.0
20	16QAM	1	1	22.89	22.85	22.76	24.0
20	64QAM	1	1	21.33	21.24	21.17	22.5
20	256QAM	1	1	19.34	19.25	19.17	20.5
Channel				371500	376000	381500	
Frequency (MHz)				1837.5	1880	1907.5	
15	PI/2 BPSK	1	1	22.94	22.94	22.90	24.1
15	QPSK	1	1	22.92	22.92	22.91	24.9
15	16QAM	1	1	22.76	22.76	22.64	24.0
15	64QAM	1	1	21.26	21.22	21.10	22.5
15	256QAM	1	1	19.24	19.16	19.07	20.5
Channel				371000	376000	382000	
Frequency (MHz)				1855	1880	1910	
10	PI/2 BPSK	1	1	22.90	22.93	22.91	24.1
10	QPSK	1	1	22.93	22.92	22.93	24.1
10	16QAM	1	1	22.80	22.71	22.50	24.0
10	64QAM	1	1	21.27	21.18	21.16	22.5
10	256QAM	1	1	19.30	19.16	19.15	20.5
Channel				370500	376000	382500	
Frequency (MHz)				1852.5	1880	1912.5	
5	PI/2 BPSK	1	1	22.92	22.93	22.92	24.1
5	QPSK	1	1	22.92	22.93	22.91	24.1
5	16QAM	1	1	22.77	22.68	22.45	24.0
5	64QAM	1	1	21.33	21.22	21.07	22.5
5	256QAM	1	1	19.29	19.17	19.08	20.5



n7							
Act 0							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 80200	Power Middle Ch. / Freq. 507000	Power High Ch. / Freq. 512000	Tune-up limit (dBm)
Channel				2510	2535	2560	
Frequency (MHz)							
20	PI/2 BPSK	1	1	23.88	23.84	23.75	24.8
20	PI/2 BPSK	1	53	23.86	23.83	23.72	
20	PI/2 BPSK	1	104	23.84	23.82	23.71	
20	PI/2 BPSK	50	0	23.84	23.76	23.75	24.8
20	PI/2 BPSK	50	28	23.82	23.79	23.74	
20	PI/2 BPSK	50	56	23.80	23.77	23.70	
20	PI/2 BPSK	100	0	23.80	23.76	23.70	24.5
20	QPSK	1	1	23.86	23.82	23.67	24.8
20	QPSK	1	53	23.85	23.83	23.71	
20	QPSK	1	104	23.82	23.80	23.66	
20	QPSK	50	0	23.80	23.77	23.72	24.8
20	QPSK	50	28	23.81	23.81	23.74	
20	QPSK	50	56	23.83	23.79	23.71	
20	QPSK	100	0	22.79	22.76	22.62	24.0
20	16QAM	1	1	22.85	22.81	22.74	24.0
20	64QAM	1	1	21.39	21.34	21.26	22.5
20	256QAM	1	1	19.41	19.30	19.26	20.5
Channel				501500	507000	512500	
Frequency (MHz)				2507.5	2535	2562.5	
15	PI/2 BPSK	1	1	23.81	23.81	23.68	24.8
15	QPSK	1	1	23.79	23.74	23.69	24.8
15	16QAM	1	1	22.66	22.73	22.60	24.0
15	64QAM	1	1	21.22	21.09	21.06	22.5
15	256QAM	1	1	19.30	19.20	19.03	20.5
Channel				501000	507000	513000	
Frequency (MHz)				2505	2535	2565	
10	PI/2 BPSK	1	1	23.83	23.74	23.73	24.8
10	QPSK	1	1	23.85	23.76	23.65	24.8
10	16QAM	1	1	22.76	22.69	22.62	24.0
10	64QAM	1	1	21.17	21.15	21.11	22.5
10	256QAM	1	1	19.35	19.35	19.06	20.5
Channel				509500	507000	513500	
Frequency (MHz)				2502.5	2535	2567.5	
5	PI/2 BPSK	1	1	23.88	23.75	23.66	24.8
5	QPSK	1	1	23.80	23.83	23.69	24.8
5	16QAM	1	1	22.73	22.77	22.52	24.0
5	64QAM	1	1	21.18	21.18	21.02	22.5
5	256QAM	1	1	19.36	19.24	19.01	20.5



n41							
Act 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				50202	51898	52800	
Frequency (MHz)				2545.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.57	24.45	24.36	
100	PI/2 BPSK	1	137	24.56	24.43	24.33	25.0
100	PI/2 BPSK	1	271	24.55	24.36	24.37	
100	PI/2 BPSK	135	0	24.47	24.44	24.30	
100	PI/2 BPSK	135	69	24.46	24.41	24.31	25.0
100	PI/2 BPSK	135	138	24.46	24.42	24.29	
100	PI/2 BPSK	270	0	24.47	24.38	24.29	24.5
100	QPSK	1	1	24.50	24.36	24.29	
100	QPSK	1	137	24.54	24.36	24.26	25.0
100	QPSK	1	271	24.52	24.35	24.31	
100	QPSK	135	0	24.51	24.43	24.29	
100	QPSK	135	69	24.52	24.39	24.25	25.0
100	QPSK	135	138	24.55	24.29	24.35	
100	QPSK	270	0	23.56	23.45	23.39	24.0
100	16QAM	1	1	23.51	23.44	23.36	24.0
100	64QAM	1	1	21.46	21.34	21.26	22.5
100	256QAM	1	1	20.44	20.35	20.27	20.5
Channel				508200	518988	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.57	24.40	24.32	25.0
Channel				507204	518998	528998	
Frequency (MHz)				2636.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.51	24.41	24.28	25.0
Channel				505200	518998	531996	
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.57	24.35	24.34	25.0
Channel				504204	518998	532998	
Frequency (MHz)				2621.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.56	24.36	24.36	25.0
Channel				503202	518998	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.52	24.39	24.32	25.0
Channel				501204	518998	535998	
Frequency (MHz)				2606.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.52	24.40	24.30	25.0
Channel				500700	518998	536496	
Frequency (MHz)				2593.5	2592.99	2683.48	
15	PI/2 BPSK	1	1	24.51	24.43	24.35	25.0
Channel				500202	518998	537000	
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.51	24.43	24.29	25.0



n41 HPUE							
Art. 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				50200	51858	52900	
Frequency (MHz)				2546.01	2592.99	2640	
100	PI/2 BPSK	1	1	27.17	27.26	26.24	
100	PI/2 BPSK	1	137	27.13	27.17	26.21	27.5
100	PI/2 BPSK	1	271	27.12	27.16	26.15	
100	PI/2 BPSK	135	0	27.09	27.11	26.23	
100	PI/2 BPSK	135	69	27.05	27.07	26.19	27.5
100	PI/2 BPSK	135	138	27.06	27.09	26.22	
100	PI/2 BPSK	270	0	27.01	27.05	26.20	27.0
100	QPSK	1	1	27.10	27.24	26.16	
100	QPSK	1	137	27.13	27.20	26.16	27.5
100	QPSK	1	271	27.07	27.16	26.16	
100	QPSK	135	0	27.16	27.19	26.23	
100	QPSK	135	69	27.13	27.17	26.24	27.5
100	QPSK	135	138	27.16	27.24	26.19	
100	QPSK	270	0	26.15	26.24	25.19	26.5
100	16QAM	1	1	26.14	26.20	25.16	26.5
100	64QAM	1	1	25.17	25.16	24.17	25.0
100	256QAM	1	1	23.19	23.14	22.19	23.0
Channel				508200	51858	528996	limit
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	27.05	27.10	26.20	27.5
Channel				512204	51858	529098	limit
Frequency (MHz)				2536.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	27.14	27.17	26.15	27.5
Channel				505200	51858	531996	limit
Frequency (MHz)				2523	2592.99	2659.98	
60	PI/2 BPSK	1	1	27.09	27.20	26.24	27.5
Channel				504204	51858	532998	limit
Frequency (MHz)				2521.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	27.06	27.21	26.15	27.5
Channel				503202	51858	534000	limit
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	27.03	27.16	26.21	27.5
Channel				501204	51858	535998	limit
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	27.07	27.18	26.19	27.5
Channel				500700	51858	536998	limit
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	27.03	27.23	26.15	27.5
Channel				500202	51858	537000	limit
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	27.04	27.20	26.18	27.5



n41							
Act 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				50902	51898	52900	
Frequency (MHz)				2545.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.62	24.75	24.47	25.0
100	PI/2 BPSK	1	137	24.58	24.71	24.43	
100	PI/2 BPSK	1	271	24.50	24.68	24.46	
100	PI/2 BPSK	135	0	24.55	24.69	24.42	25.0
100	PI/2 BPSK	135	69	24.54	24.66	24.39	
100	PI/2 BPSK	135	138	24.55	24.67	24.42	
100	PI/2 BPSK	270	0	24.32	24.46	24.27	24.5
100	QPSK	1	1	24.61	24.67	24.47	25.0
100	QPSK	1	137	24.48	24.70	24.40	
100	QPSK	1	271	24.52	24.61	24.37	
100	QPSK	135	0	24.58	24.71	24.46	25.0
100	QPSK	135	69	24.58	24.69	24.39	
100	QPSK	135	138	24.58	24.61	24.39	
100	QPSK	270	0	23.55	23.69	23.48	24.0
100	16QAM	1	1	23.54	23.66	23.42	24.0
100	64QAM	1	1	22.04	22.14	21.97	22.5
100	256QAM	1	1	20.06	20.14	19.94	20.5
Channel				508200	518988	528996	
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	1	1	24.60	24.72	24.39	25.0
Channel				507204	518998	528998	
Frequency (MHz)				2636.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	24.56	24.71	24.45	25.0
Channel				505200	518998	531996	
Frequency (MHz)				2593	2592.99	2659.98	
60	PI/2 BPSK	1	1	24.60	24.71	24.44	25.0
Channel				504204	518998	532998	
Frequency (MHz)				2621.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	24.54	24.75	24.41	25.0
Channel				503202	518998	534000	
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	24.58	24.75	24.44	25.0
Channel				501204	518998	535998	
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	24.52	24.75	24.41	25.0
Channel				500700	518998	536496	
Frequency (MHz)				2503.5	2592.99	2682.48	
15	PI/2 BPSK	1	1	24.58	24.74	24.46	25.0
Channel				500202	518998	537000	
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	24.53	24.68	24.44	25.0



n41 HPUE							
Act 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				50202	51898	52800	
Frequency (MHz)				2646.01	2692.99	2840	
100	PI/2 BPSK	1	1	24.14	24.03	23.96	25.2
100	PI/2 BPSK	1	137	24.13	24.01	23.92	
100	PI/2 BPSK	1	271	24.11	23.99	23.91	
100	PI/2 BPSK	135	0	23.96	23.80	23.77	25.2
100	PI/2 BPSK	135	69	23.94	23.79	23.74	
100	PI/2 BPSK	135	138	23.93	23.77	23.71	
100	PI/2 BPSK	270	0	23.91	23.77	23.64	25.2
100	QPSK	1	1	24.12	24.01	24.07	25.2
100	QPSK	1	137	24.11	23.96	24.06	
100	QPSK	1	271	24.11	23.93	24.05	
100	QPSK	135	0	24.11	24.00	24.05	25.2
100	QPSK	135	69	24.06	23.97	24.09	
100	QPSK	135	138	24.08	23.88	24.07	
100	QPSK	270	0	23.95	23.97	24.06	25.0
100	16QAM	1	1	23.92	23.96	24.05	25.0
100	64QAM	1	1	23.42	23.49	23.59	25.0
100	256QAM	1	1	21.70	21.73	22.02	23.5
Channel				508200	518988	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2692.99	2644.98	
90	PI/2 BPSK	0	0	23.41	23.27	23.35	25.2
Channel				507204	518998	528988	Tune-up limit (dBm)
Frequency (MHz)				2636.02	2692.99	2649.99	
80	PI/2 BPSK	1	1	23.39	23.26	23.35	25.2
Channel				505200	518998	531996	Tune-up limit (dBm)
Frequency (MHz)				2626	2692.99	2659.98	
60	PI/2 BPSK	1	1	23.40	23.25	23.34	25.2
Channel				504204	518998	532998	Tune-up limit (dBm)
Frequency (MHz)				2621.02	2692.99	2664.99	
50	PI/2 BPSK	1	1	23.39	23.31	23.35	25.2
Channel				503202	518998	534000	Tune-up limit (dBm)
Frequency (MHz)				2616.01	2692.99	2670	
40	PI/2 BPSK	1	1	23.38	23.28	23.35	25.2
Channel				501204	518998	535998	Tune-up limit (dBm)
Frequency (MHz)				2606.02	2692.99	2679.99	
20	PI/2 BPSK	1	1	23.38	23.22	23.40	25.2
Channel				500700	518998	536496	Tune-up limit (dBm)
Frequency (MHz)				2601.5	2692.99	2681.48	
15	PI/2 BPSK	1	1	23.39	23.30	23.35	25.2
Channel				500202	518998	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2692.99	2685	
10	PI/2 BPSK	1	1	23.41	23.24	23.38	25.2



n41 HPUE							
Act 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				50202	51898	52800	
Frequency (MHz)				2545.01	2592.99	2640	
100	PI/2 BPSK	1	1	24.14	24.03	23.96	24.4
100	PI/2 BPSK	1	137	24.13	24.01	23.92	
100	PI/2 BPSK	1	271	24.11	23.99	23.91	
100	PI/2 BPSK	135	0	23.96	23.80	23.77	
100	PI/2 BPSK	135	69	23.94	23.79	23.74	
100	PI/2 BPSK	135	138	23.93	23.77	23.71	
100	PI/2 BPSK	270	0	23.91	23.77	23.64	
100	QPSK	1	1	24.12	24.01	24.07	
100	QPSK	1	137	24.11	23.96	24.06	
100	QPSK	1	271	24.11	23.93	24.05	
100	QPSK	135	0	24.11	24.00	24.05	24.4
100	QPSK	135	69	24.06	23.97	24.09	
100	QPSK	135	138	24.08	23.88	24.07	
100	QPSK	270	0	23.95	23.97	24.06	24.4
100	16QAM	1	1	23.92	23.96	24.05	24.4
100	64QAM	1	1	23.42	23.49	23.59	24.4
100	256QAM	1	1	21.70	21.73	22.02	23.5
Channel				508200	518988	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2592.99	2644.98	
90	PI/2 BPSK	0	0	23.41	23.27	23.35	24.4
Channel				517204	518998	528998	Tune-up limit (dBm)
Frequency (MHz)				2636.02	2592.99	2649.99	
80	PI/2 BPSK	1	1	23.39	23.26	23.35	24.4
Channel				505200	518998	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2592.99	2659.98	
60	PI/2 BPSK	1	1	23.40	23.25	23.34	24.4
Channel				504204	518998	532998	Tune-up limit (dBm)
Frequency (MHz)				2621.02	2592.99	2664.99	
50	PI/2 BPSK	1	1	23.39	23.31	23.35	24.4
Channel				503202	518998	534000	Tune-up limit (dBm)
Frequency (MHz)				2516.01	2592.99	2670	
40	PI/2 BPSK	1	1	23.38	23.28	23.35	24.4
Channel				501204	518998	535998	Tune-up limit (dBm)
Frequency (MHz)				2506.02	2592.99	2679.99	
20	PI/2 BPSK	1	1	23.38	23.22	23.40	24.4
Channel				500700	518998	536996	Tune-up limit (dBm)
Frequency (MHz)				2501.5	2592.99	2681.48	
15	PI/2 BPSK	1	1	23.39	23.30	23.35	24.4
Channel				500202	518998	537000	Tune-up limit (dBm)
Frequency (MHz)				2501.01	2592.99	2685	
10	PI/2 BPSK	1	1	23.41	23.24	23.39	24.4



Transmit Antenna		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 %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	22.90	23.00	100.00	22.20	23.00	100.00	22.90	23.00	22.20	23.00	25.57	26.0	
		6	2437	22.80	23.00		22.10	23.00		22.80	23.00	22.10	23.00	25.47	26.0	
		11	2462	22.50	23.00		21.70	23.00		22.50	23.00	21.70	23.00	25.13	26.0	
		12	2467	17.80	18.50		17.80	18.50		17.80	18.50	18.20	18.50	21.01	21.5	
	802.11g 6Mbps	1	2412	13.60	14.00	97.64	13.70	14.00	98.11	13.60	14.00	13.70	14.00	16.66	17.0	
		6	2437	18.50	18.50		18.50	18.50		18.50	18.50	18.50	21.5	21.5		
		11	2462	18.00	22.00		18.00	22.00		18.00	22.00	18.00	22.00	25.0	26.0	
		12	2467	12.50	12.50		12.50	12.50		12.50	12.50	12.50	15.5	15.5		
	802.11n-HT20 MCS0	1	2412	2.00	2.00	97.73	2.00	-2.00	97.72	2.00	-2.00	2.00	-2.00	2.00	-2.00	
		6	2437	18.00	18.00		18.00	18.00		18.00	18.00	18.00	21.0	21.0		
		11	2462	22.50	22.50		22.50	22.50		22.50	22.50	22.50	25.5	25.5		
		12	2467	17.50	17.50		17.50	17.50		17.50	17.50	17.50	20.5	20.5		
802.11ac-VHT20 MCS0	1	2412	10.50	10.50	97.98	10.50	10.50	97.97	10.50	10.50	10.50	10.50	10.50	13.5		
	6	2437	2.00	-2.00		2.00	-2.00		2.00	-2.00	2.00	-2.00	3.5	3.5		
	11	2462	18.00	18.00		18.00	18.00		18.00	18.00	18.00	21.0	21.0			
	12	2467	22.50	22.50		22.50	22.50		22.50	22.50	22.50	25.5	25.5			

Transmit Antenna		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 %	
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.50	18.50	98.11	18.50	18.50	97.88	18.50	18.50	18.50	18.50	21.5	21.5	
		40	5200	18.50	18.50		18.50	18.50		18.50	18.50	18.50	21.5	21.5		
		44	5220	18.50	18.50		18.50	18.50		18.50	18.50	18.50	21.5	21.5		
		48	5240	17.50	17.50		17.50	17.50		17.50	17.50	17.50	20.5	20.5		
	802.11n-HT20 MCS0	36	5180	Not Required	18.50	97.47	18.50	18.50	97.97	18.50	18.50	18.50	18.50	21.5	21.5	
		40	5200	18.50	18.50		18.50	18.50		18.50	18.50	21.5	21.5			
		44	5220	18.50	18.50		18.50	18.50		18.50	18.50	21.5	21.5			
		48	5240	18.50	18.50		18.50	18.50		18.50	18.50	21.5	21.5			
	802.11n-HT40 MCS0	36	5190	12.00	13.00	95.45	12.70	13.00	95.45	12.00	13.00	12.70	13.00	15.37	16.0	
		48	5230	20.30	21.00		19.90	21.00		20.30	21.00	19.90	21.00	23.11	24.0	
	802.11ac-VHT20 MCS0	36	5180	18.50	18.50	97.93	18.50	18.50	97.49	18.50	18.50	18.50	18.50	21.5	21.5	
		40	5200	18.50	18.50		18.50	18.50		18.50	18.50	18.50	21.5	21.5		
44		5220	18.50	18.50	18.50		18.50	18.50		18.50	18.50	21.5	21.5			
48		5240	18.50	18.50	18.50		18.50	18.50		18.50	18.50	21.5	21.5			
802.11ac-VHT40 MCS0	38	5190	13.00	13.00	95.48	13.00	13.00	95.96	13.00	13.00	13.00	13.00	16.0	16.0		
	46	5230	21.00	21.00		21.00	21.00		21.00	21.00	21.00	24.0	24.0			
802.11ac-VHT80 MCS0	42	5210	12.50	12.50	92.06	12.50	12.50	92.06	12.50	12.50	12.50	12.50	15.5	16.0		

Transmit Antenna		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 %	
5.3GHz WLAN	802.11a 6Mbps	52	5260	17.50	17.50	98.11	17.50	17.50	97.88	17.50	17.50	17.50	17.50	20.5	20.5	
		56	5280	17.50	17.50		17.50	17.50		17.50	17.50	17.50	20.5	20.5		
		60	5300	17.50	17.50		17.50	17.50		17.50	17.50	17.50	20.5	20.5		
		64	5320	17.50	17.50		17.50	17.50		17.50	17.50	17.50	20.5	20.5		
	802.11n-HT20 MCS0	52	5260	18.00	18.00	97.47	18.00	18.00	97.97	18.00	18.00	18.00	18.00	21.0	21.0	
		56	5280	18.00	18.00		18.00	18.00		18.00	18.00	18.00	21.0	21.0		
		60	5300	18.00	18.00		18.00	18.00		18.00	18.00	18.00	21.0	21.0		
		64	5320	18.00	18.00		18.00	18.00		18.00	18.00	18.00	21.0	21.0		
	802.11n-HT40 MCS0	54	5270	20.30	21.00	95.45	19.90	21.00	95.45	20.30	21.00	19.90	21.00	23.11	24.0	
		62	5310	13.50	13.50		12.50	13.50		13.50	13.50	12.50	13.50	16.04	16.5	
	802.11ac-VHT20 MCS0	52	5260	18.00	18.00	97.93	18.00	18.00	97.49	18.00	18.00	18.00	18.00	21.0	21.0	
		56	5280	18.00	18.00		18.00	18.00		18.00	18.00	18.00	21.0	21.0		
60		5300	18.00	18.00	18.00		18.00	18.00		18.00	18.00	21.0	21.0			
64		5320	18.00	18.00	18.00		18.00	18.00		18.00	18.00	21.0	21.0			
802.11ac-VHT40 MCS0	54	5270	21.00	21.00	95.48	21.00	21.00	95.96	21.00	21.00	21.00	21.00	24.0	24.0		
	62	5310	13.50	13.50		13.50	13.50		13.50	13.50	13.50	16.5	16.5			
802.11ac-VHT80 MCS0	58	5290	12.00	12.00	92.06	12.00	12.00	92.06	12.00	12.00	12.00	12.00	15.0	16.0		



Transmit Antenna			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	18.00	Not Required	18.00	97.88	18.00	18.00	Not Required	18.00	Not Required	18.00	98.11									
		116	5580		18.00		18.00			18.00		21.0												
		124	5620		18.00		18.00			18.00		21.0												
		132	5660		18.00		18.00			18.00		21.0												
		140	5700		18.00		18.00			18.00		21.0												
		144	5720		18.00		18.00			18.00		21.0												
	802.11n-HT20 MCS0	100	5500		18.00		97.97			18.00		97.97				18.00	18.00	18.00	18.00	18.00	18.00	18.00	21.0	97.72
		116	5580		18.00					18.00						18.00		21.0						
		124	5620		18.00					18.00						18.00		21.0						
		132	5660		18.00					18.00						18.00		21.0						
		140	5700		18.00					18.00						18.00		21.0						
		144	5720		18.00					18.00						18.00		21.0						
	802.11n-HT40 MCS0	102	5510		Not Required		16.00			Not Required		16.00				95.45	Not Required	16.00	Not Required	16.00	Not Required	16.00	19.0	94.95
		110	5550				21.00					21.00						21.00		24.0				
		128	5630				21.00					21.00						21.00		24.0				
		134	5670				21.00					21.00						21.00		24.0				
		142	5710				20.50					20.50						20.50		23.5				
		144	5720				20.50					20.50						20.50		23.5				
	802.11ac-VHT20 MCS0	100	5500		Not Required		18.00			97.49		18.00				97.49	18.00	18.00	18.00	18.00	18.00	18.00	21.0	97.98
		118	5580				18.00					18.00						18.00		21.0				
		124	5620				18.00					18.00						18.00		21.0				
		132	5660				18.00					18.00						18.00		21.0				
		140	5700				18.00					18.00						18.00		21.0				
		144	5720				18.00					18.00						18.00		21.0				
	802.11ac-VHT40 MCS0	102	5510		Not Required		16.00			95.96		16.00				95.96	16.00	16.00	16.00	16.00	16.00	16.00	19.0	95.48
		110	5550				21.00					21.00						21.00		24.0				
		128	5630				21.00					21.00						21.00		24.0				
		134	5670				20.50					20.50						20.50		23.5				
		142	5710				20.50					20.50						20.50		23.5				
		144	5720				20.50					20.50						20.50		23.5				
	802.11ac-VHT80 MCS0	106	5530		12.80		13.00			92.06		12.90				92.06	13.00	12.80	13.00	12.90	13.00	15.86	16.0	92.00
		122	5610		19.90		21.00					20.80						21.00		23.38		24.0		
		138	5690		19.80		20.50					19.80						20.50		20.20		20.50		

Transmit Antenna			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	21.00	Not Required	21.00	97.88	21.00	21.00	Not Required	21.00	Not Required	21.00	24.0	98.11								
		157	5785		21.00		21.00			21.00		24.0												
		165	5825		21.00		21.00			21.00		24.0												
	802.11n-HT20 MCS0	149	5745		21.00		97.47			21.00		97.47		21.00			21.00	21.00	21.00	21.00	21.00	21.00	24.0	97.72
		157	5785		20.50					20.50				20.50				23.5						
		165	5825		20.50					20.50				20.50				23.5						
	802.11n-HT40 MCS0	151	5755		Not Required		21.00			95.45		21.00		95.45			21.00	21.00	Not Required	21.00	Not Required	21.00	24.0	94.95
		159	5795				21.00					21.00						21.00		24.0				
		149	5745				21.00					21.00						21.00		24.0				
	802.11ac-VHT20 MCS0	157	5785		Not Required		20.50			97.93		20.50		97.49			20.50	20.50	20.50	20.50	20.50	20.50	23.5	97.98
		165	5825				20.50					20.50						20.50		23.5				
		151	5755				21.00					21.00						21.00		24.0				
	802.11ac-VHT40 MCS0	159	5795		Not Required		21.00			95.48		21.00		95.96			21.00	21.00	21.00	21.00	21.00	21.00	24.0	95.48
		159	5795				21.00					21.00						21.00		24.0				
	802.11ac-VHT80 MCS0	155	5775		20.40		21.00			92.06		20.10		21.00			92.06	20.40	21.00	20.10	21.00	23.26	24.0	92.00



Transmit Antenna			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 %			
2.4GHz WLAN	802.11b 1Mbps	1	2412	15.80	16.00	100.00	17.30	17.50	100.00	16.00	17.50	19.8	16.00	17.50	19.8			
		6	2437	15.80	16.00											17.30	17.50	19.8
		11	2462	15.80	16.00											17.30	17.50	19.8
		12	2467	15.50	16.00											17.00	17.50	19.8
		13	2472	15.80	16.00											17.40	17.50	19.8
	802.11g 6Mbps	1	2412	Not Required	16.00	97.64	Not Required	17.50	98.11	Not Required	16.00	17.50	19.8	16.00	17.50	19.8		
		6	2437		16.00												17.50	19.8
		11	2462		16.00												17.50	19.8
		12	2467		12.50												12.50	15.5
		13	2472		2.00												0.00	4.1
	802.11n-HT20 MCS0	1	2412	Not Required	16.00	97.73	Not Required	17.50	97.72	Not Required	16.00	17.50	19.8	16.00	17.50	19.8		
		6	2437		16.00												17.50	19.8
11		2462	16.00		17.50												19.8	
12		2467	11.00		10.50												13.8	
13		2472	2.00		0.00												4.1	
802.11ac-VHT20 MCS0	1	2412	Not Required	16.00	97.98	Not Required	17.50	97.97	Not Required	16.00	17.50	19.8	16.00	17.50	19.8			
	6	2437		16.00												17.50	19.8	
	11	2462		16.00												17.50	19.8	
	12	2467		11.00												11.00	14.0	
	13	2472		2.00												0.00	4.1	

Transmit Antenna			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 %		
5.2GHz WLAN	802.11a 6Mbps	36	5180	Not Required	9.50	97.87	Not Required	11.50	97.87	Not Required	9.50	11.50	Not Required	13.6	97.87		
		40	5200		9.50											11.50	13.6
		44	5220		9.50											11.50	13.6
	802.11n-HT20 MCS0	36	5180	Not Required	9.50	96.96	Not Required	11.50	96.96	Not Required	9.50	11.50	Not Required	13.6	96.96		
		40	5200		9.50											11.50	13.6
		44	5220		9.50											11.50	13.6
	802.11n-HT40 MCS0	38	5190	Not Required	9.50	95.95	Not Required	11.50	95.95	Not Required	9.50	11.50	Not Required	13.6	95.95		
		46	5230		9.50											11.50	13.6
	802.11ac-VHT20 MCS0	36	5180	Not Required	9.50	97.22	Not Required	11.50	97.22	Not Required	9.50	11.50	Not Required	13.6	97.22		
		40	5200		9.50											11.50	13.6
		44	5220		9.50											11.50	13.6
	802.11ac-VHT40 MCS0	48	5240	Not Required	9.50	95.47	Not Required	11.50	95.47	Not Required	9.50	11.50	Not Required	13.6	95.47		
38		5190	9.50		11.50											13.6	
802.11ac-VHT80 MCS0	46	5230	Not Required	9.50	92.07	Not Required	11.50	92.00	Not Required	9.50	11.50	Not Required	13.6	92.00			
	42	5210		9.00											9.50	11.31	11.50

Transmit Antenna			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 %		
5.3GHz WLAN	802.11a 6Mbps	52	5260	Not Required	9.50	97.87	Not Required	11.50	97.87	Not Required	9.50	11.50	Not Required	13.6	97.87		
		56	5280		9.50											11.50	13.6
		60	5300		9.50											11.50	13.6
		64	5320		9.50											11.50	13.6
	802.11n-HT20 MCS0	52	5260	Not Required	9.50	96.96	Not Required	11.50	96.96	Not Required	9.50	11.50	Not Required	13.6	96.96		
		56	5280		9.50											11.50	13.6
		60	5300		9.50											11.50	13.6
		64	5320		9.50											11.50	13.6
	802.11n-HT40 MCS0	54	5270	Not Required	9.50	95.95	Not Required	11.50	95.95	Not Required	9.50	11.50	Not Required	13.6	95.95		
		62	5310		9.50											11.50	13.6
	802.11ac-VHT20 MCS0	52	5260	Not Required	9.50	97.22	Not Required	11.50	97.22	Not Required	9.50	11.50	Not Required	13.6	97.22		
		56	5280		9.50											11.50	13.6
60		5300	9.50		11.50											13.6	
64		5320	9.50		11.50											13.6	
802.11ac-VHT40 MCS0	54	5270	Not Required	9.50	95.47	Not Required	11.50	95.47	Not Required	9.50	11.50	Not Required	13.6	95.47			
	62	5310		9.50											11.50	13.6	
802.11ac-VHT80 MCS0	58	5290	9.30	9.50	92.07	11.49	11.50	92.00	Not Required	9.50	11.50	Not Required	13.6	92.00			



Transmit Antenna				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	9.00	Not Required	12.00	97.87	97.87	9.00	12.00	13.8	9.00	12.00	97.87	
		116	5580		9.00		12.00									13.8
		124	5620		9.00		12.00									13.8
		132	5660		9.00		12.00									13.8
		140	5700		9.00		12.00									13.8
		144	5720		9.00		12.00									13.8
	802.11n-HT20 MCS0	100	5500		9.00		12.00									13.8
		116	5580		9.00		12.00									13.8
		124	5620		9.00		12.00									13.8
		132	5660		9.00		12.00									13.8
		140	5700		9.00		12.00									13.8
		144	5720		9.00		12.00									13.8
	802.11n-HT40 MCS0	102	5510		9.00		12.00									13.8
		110	5550		9.00		12.00									13.8
		126	5630		9.00		12.00									13.8
		134	5670		9.00		12.00									13.8
		142	5710		9.00		12.00									13.8
		100	5500		9.00		12.00									13.8
	802.11ac-VHT20 MCS0	116	5580		9.00		12.00									13.8
		124	5620		9.00		12.00									13.8
		132	5660		9.00		12.00									13.8
		140	5700		9.00		12.00									13.8
		144	5720		9.00		12.00									13.8
		102	5510		9.00		12.00									13.8
802.11ac-VHT40 MCS0	110	5550	9.00	12.00	13.8											
	126	5630	9.00	12.00	13.8											
	134	5670	9.00	12.00	13.8											
	142	5710	9.00	12.00	13.8											
	106	5530	8.50	9.00	11.88	12.00	92.07	11.68	12.00	92.00	9.00	12.00	13.8			
	122	5610	8.90	9.00	11.04	12.00	92.00	11.04	12.00	9.00	12.00	13.8				
138	5690	8.90	9.00	11.04	12.00	92.00	11.04	12.00	9.00	12.00	13.8					

Transmit Antenna				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	9.00	Not Required	12.50	97.87	97.87	9.00	12.50	14.1	9.00	12.50	97.87							
		157	5785		9.00		12.50									14.1						
		165	5825		9.00		12.50									14.1						
	802.11n-HT20 MCS0	149	5745		9.00		12.50									14.1						
		157	5785		9.00		12.50									14.1						
		165	5825		9.00		12.50									14.1						
	802.11n-HT40 MCS0	151	5755		9.00		12.50									14.1						
		159	5795		9.00		12.50									14.1						
		149	5745		9.00		12.50									14.1						
	802.11ac-VHT20 MCS0	157	5785		9.00		12.50									14.1						
		165	5825		9.00		12.50									14.1						
		151	5755		9.00		12.50									14.1						
	802.11ac-VHT40 MCS0	159	5795		9.00		12.50									14.1						
		155	5775		8.68		9.00									12.12	12.50	92.00	9.00	12.50	14.1	90.19



Transmit Antenna		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 %	
2.4GHz WLAN	802.11b 1Mbps	1	2412	22.90	23.00	100.00	22.20	23.00	100.00	22.90	23.00	22.20	23.00	25.57	26.0	
		6	2437	22.80	23.00		22.10	23.00		22.80	23.00	22.10	23.00	25.47	26.0	
		11	2462	22.50	23.00		21.70	23.00		22.50	23.00	21.70	23.00	25.13	26.0	
		12	2467	17.80	18.50		18.20	18.50		17.80	18.50	18.20	18.50	21.01	21.5	
	802.11g 6Mbps	1	2412	13.60	14.00	97.64	13.70	14.00	98.11	13.60	14.00	13.70	14.00	16.66	17.0	
		6	2437	18.50	18.50		18.50	18.50		18.50	18.50	21.5				
		11	2462	18.00	22.00		18.00	22.00		18.00	22.00	25.0				
		12	2467	12.50	12.50		12.50	12.50		12.50	15.5					
	802.11n-HT20 MCS0	13	2472	2.00	-2.00	97.73	-2.00	-2.00	97.72	-2.00	-2.00	-2.00	-2.00	3.5		
		1	2412	18.00	18.00		18.00	18.00		18.00	21.0					
		6	2437	22.50	22.50		22.50	22.50		22.50	25.5					
		11	2462	17.50	17.50		17.50	17.50		17.50	20.5					
802.11ac-VHT20 MCS0	12	2467	10.50	10.50	97.98	10.50	10.50	97.97	10.50	10.50	10.50	10.50	13.5			
	13	2472	2.00	-2.00		2.00	-2.00		2.00	3.5						
	1	2412	18.00	18.00		18.00	18.00		18.00	21.0						
	6	2437	22.50	22.50		22.50	22.50		22.50	25.5						
802.11ac-VHT80 MCS0	11	2462	17.50	17.50	97.98	17.50	17.50	97.97	17.50	17.50	17.50	17.50	20.5			
	12	2467	10.50	10.50		10.50	10.50		10.50	13.5						
	13	2472	2.00	-2.00		2.00	-2.00		2.00	3.5						
	1	2412	18.00	18.00		18.00	18.00		18.00	21.0						

Transmit Antenna		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 %	
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.50	98.11	18.50	97.88	18.50	97.88	18.50	18.50	18.50	18.50	21.5		
		40	5200	18.50		18.50		18.50		18.50	21.5					
		44	5220	18.50		18.50		18.50		18.50	21.5					
		48	5240	17.50		17.50		17.50		17.50	20.5					
	802.11n-HT20 MCS0	36	5180	Not Required	18.50	97.47	18.50	97.97	18.50	97.97	18.50	18.50	18.50	18.50	21.5	
		40	5200	18.50	18.50		18.50		18.50		21.5					
		44	5220	18.50	18.50		18.50		18.50		21.5					
		48	5240	18.50	18.50		18.50		18.50		21.5					
	802.11n-HT40 MCS0	38	5190	12.00	13.00	95.45	12.70	13.00	95.45	12.00	13.00	12.70	13.00	15.37	16.0	
		46	5230	20.30	21.00		19.90	20.50		20.30	21.00	19.90	20.50	23.11	23.8	
	802.11ac-VHT20 MCS0	36	5180	18.50	97.93	18.50	97.49	18.50	97.49	18.50	18.50	18.50	18.50	18.50	21.5	
		40	5200	18.50		18.50		18.50		18.50	21.5					
44		5220	18.50	18.50		18.50		18.50		21.5						
48		5240	18.50	18.50		18.50		18.50		21.5						
802.11ac-VHT40 MCS0	38	5190	13.00	13.00	95.48	13.00	13.00	95.96	13.00	13.00	13.00	13.00	16.0			
	46	5230	21.00	21.00		20.50	21.00		20.50	21.00	20.50	23.8				
802.11ac-VHT80 MCS0	42	5210	12.50	12.50	92.06	12.50	12.50	92.06	12.50	12.50	12.50	12.50	15.5	92.00		

Transmit Antenna		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 %	
5.3GHz WLAN	802.11a 6Mbps	52	5260	17.50	98.11	17.50	97.88	17.50	97.88	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	17.50		17.50		17.50		17.50	20.5					
	802.11n-HT20 MCS0	52	5260	Not Required	18.00	97.47	18.00	97.97	18.00	97.97	18.00	18.00	18.00	18.00	21.0	
		56	5280	18.00	18.00		18.00		18.00		21.0					
		60	5300	18.00	18.00		18.00		18.00		21.0					
		64	5320	18.00	18.00		18.00		18.00		21.0					
	802.11n-HT40 MCS0	54	5270	20.30	21.00	95.45	19.90	21.00	95.45	20.30	21.00	19.90	21.00	23.11	24.0	
		62	5310	13.50	13.50		12.50	13.50		13.50	13.50	16.04	16.5			
	802.11ac-VHT20 MCS0	52	5260	18.00	97.93	18.00	97.49	18.00	97.49	18.00	18.00	18.00	18.00	18.00	21.0	
		56	5280	18.00		18.00		18.00		18.00	21.0					
60		5300	18.00	18.00		18.00		18.00		21.0						
64		5320	18.00	18.00		18.00		18.00		21.0						
802.11ac-VHT40 MCS0	54	5270	21.00	21.00	95.48	21.00	21.00	95.96	21.00	21.00	21.00	21.00	24.0			
	62	5310	13.50	13.50		13.50	13.50		13.50	16.5						
802.11ac-VHT80 MCS0	58	5290	12.00	12.00	92.06	12.00	12.00	92.06	12.00	12.00	12.00	12.00	15.0	92.00		



Transmit Antenna						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 %	Duty Cycle %			
5.5GHz WLAN	802.11a 6Mbps	100	5500	Not Required	18.00	97.88	18.00	18.00	97.88	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	98.11		
		116	5580		18.00															
		124	5620		18.00															
		132	5660		18.00															
		140	5700		18.00															
		144	5720		18.00															
	802.11n-HT20 MCS0	100	5500	Not Required	18.00	97.97	18.00	18.00	97.97	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	97.72	
		116	5580		18.00															
		124	5620		18.00															
		132	5660		18.00															
		140	5700		18.00															
		144	5720		18.00															
	802.11ac-VHT40 MCS0	102	5510	Not Required	16.00	95.45	Not Required	21.00	95.45	Not Required	21.00	20.00	Not Required	21.00	Not Required	21.00	21.00	21.00	94.95	
		110	5550		20.00															
		126	5630		20.00															
		134	5670		20.00															
		142	5710		20.00															
		142	5710		20.00															
	802.11ac-VHT20 MCS0	100	5500	Not Required	18.00	97.49	18.00	18.00	97.49	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	97.98	
		116	5580		18.00															
		124	5620		18.00															
		132	5660		18.00															
		140	5700		18.00															
		144	5720		18.00															
	802.11ac-VHT40 MCS0	102	5510	Not Required	16.00	95.96	Not Required	21.00	95.96	Not Required	21.00	20.50	Not Required	21.00	Not Required	21.00	21.00	21.00	95.48	
		110	5550		20.00															
		126	5630		20.00															
		134	5670		20.00															
		142	5710		20.00															
		142	5710		20.00															
	802.11ac-VHT80 MCS0	106	5530	12.80	13.00	92.06	12.90	13.00	92.06	12.80	13.00	12.90	13.00	15.86	16.00	15.86	16.00	23.38	23.5	92.00
		122	5610	19.90	20.00		20.80	21.00		20.80	21.00	23.38	23.5							
		138	5690	19.80	20.00		20.20	20.50		19.80	20.00	20.20	20.50	23.01	23.3					

Transmit Antenna						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 %	Duty Cycle %							
5.8GHz WLAN	802.11a 6Mbps	149	5745	Not Required	21.00	98.11	Not Required	21.00	97.88	Not Required	21.00	21.00	Not Required	21.00	21.00	21.00	21.00	98.11						
		157	5785		21.00																			
		165	5825		21.00																			
	802.11n-HT20 MCS0	149	5745		21.00	97.47		97.47	20.50		20.50	97.97		20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	97.72	
		157	5785		20.50																			
		165	5825		20.50																			
	802.11n-HT40 MCS0	151	5755		21.00	95.45		95.45	21.00		21.00	95.45		21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	94.95	
		159	5795		21.00																			
	802.11ac-VHT20 MCS0	149	5745		21.00	97.93		97.93	20.50		20.50	97.49		20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	20.50	97.98
		157	5785		20.50																			
		165	5825		20.50																			
	802.11ac-VHT40 MCS0	151	5755		21.00	95.48		95.48	21.00		21.00	95.96		21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	95.48	
		159	5795		21.00																			
	802.11ac-VHT80 MCS0	155	5775		20.40	21.00		92.06	20.10		21.00	92.06		20.40	21.00	20.10	21.00	23.26	24.0	23.26	24.0	92.00		



Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	18.30	17.53	17.50
	CH 39	2441	18.00	17.64	17.50
	CH 78	2480	18.03	18.36	18.31
Tune-up Limit			19.5	19.5	19.5

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	18.10	17.85
	CH 19	2440	17.60	17.67
	CH 39	2480	17.80	17.90
Tune-up Limit			19	19



Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	11.75	11.76	11.62
	CH 39	2441	11.86	11.79	11.71
	CH 78	2480	11.72	11.68	11.74
Tune-up Limit			12	12	12

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	11.70	11.50
	CH 19	2440	11.90	11.80
	CH 39	2480	11.90	11.80
Tune-up Limit			12	12



Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	18.30	17.53	17.50
	CH 39	2441	18.00	17.64	17.50
	CH 78	2480	18.03	18.36	18.31
Tune-up Limit			19.5	19.5	19.5

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	18.10	17.85
	CH 19	2440	17.60	17.67
	CH 39	2480	17.80	17.90
Tune-up Limit			19	19