

<GSM Conducted Power>

1. Per KDB 447498 D01v06, the maximum output power channel is used for SAR testing and for further SAR test
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested. Therefore, the GPRS (4Tx slots) for GSM850 and GPRS (3Tx slots) for GSM1900 are considered as the primary mode
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode

Ant 1

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	33.13	32.90	33.16	33.50	24.13	23.90	24.16	24.50
GPRS 1 Tx slot	33.05	32.87	33.15	33.50	24.05	23.87	24.15	24.50
GPRS 2 Tx slots	30.84	30.16	30.38	31.50	24.84	24.16	24.38	25.50
GPRS 3 Tx slots	29.06	28.25	28.44	30.00	24.80	23.99	24.18	25.74
GPRS 4 Tx slots	28.41	27.53	27.50	29.50	25.41	24.53	24.50	26.50
EDGE 1 Tx slot	26.55	26.50	26.50	28.50	17.55	17.50	17.50	19.50
EDGE 2 Tx slots	24.78	24.43	24.60	26.00	18.78	18.43	18.60	20.00
EDGE 3 Tx slots	23.13	22.78	22.99	24.50	18.87	18.52	18.73	20.24
EDGE 4 Tx slots	22.43	22.25	22.29	24.00	19.43	19.25	19.29	21.00

Ant 3

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	29.70	29.43	29.93	30.50	20.70	20.43	20.93	21.50
GPRS 1 Tx slot	29.76	29.50	29.98	30.50	20.76	20.50	20.98	21.50
GPRS 2 Tx slots	26.84	26.97	27.00	28.00	20.84	20.97	21.00	22.00
GPRS 3 Tx slots	25.57	25.66	25.74	27.00	21.31	21.40	21.48	22.74
GPRS 4 Tx slots	24.13	24.20	24.25	25.50	21.13	21.20	21.25	22.50
EDGE 1 Tx slot	25.60	25.56	25.61	27.50	16.60	16.56	16.61	18.50
EDGE 2 Tx slots	23.25	23.22	23.14	25.00	17.25	17.22	17.14	19.00
EDGE 3 Tx slots	22.24	22.14	22.13	24.00	17.98	17.88	17.87	19.74
EDGE 4 Tx slots	21.10	21.00	21.02	23.00	18.10	18.00	18.02	20.00

Ant 1

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	128	189	251		128	189	251	
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8	
Frequency (MHz)								
GSM 1 Tx slot	30.50	30.31	30.45	31.00	21.50	21.31	21.45	22.00
GPRS 1 Tx slot	30.52	30.34	30.49	31.00	21.52	21.34	21.49	22.00
GPRS 2 Tx slots	28.98	28.48	28.46	29.00	22.98	22.48	22.46	23.00
GPRS 3 Tx slots	27.33	26.63	26.63	27.50	23.07	22.37	22.37	23.24
GPRS 4 Tx slots	26.60	25.94	25.98	27.00	23.60	22.94	22.98	24.00
EDGE 1 Tx slot	26.30	26.24	26.14	26.50	17.30	17.24	17.14	17.50
EDGE 2 Tx slots	24.64	24.56	24.62	25.00	18.64	18.56	18.62	19.00
EDGE 3 Tx slots	23.18	22.95	23.11	23.50	18.92	18.69	18.85	19.24
EDGE 4 Tx slots	22.50	22.23	22.34	23.00	19.50	19.23	19.34	20.00

Ant 3

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8	
Frequency (MHz)								
GSM 1 Tx slot	29.32	29.41	29.45	29.50	20.32	20.41	20.45	20.50
GPRS 1 Tx slot	29.35	29.45	29.46	29.50	20.35	20.45	20.46	20.50
GPRS 2 Tx slots	26.95	26.99	26.96	27.00	20.95	20.99	20.96	21.00
GPRS 3 Tx slots	25.61	25.65	25.67	26.00	21.35	21.39	21.41	21.74
GPRS 4 Tx slots	24.17	23.68	24.21	24.50	21.17	20.68	21.21	21.50
EDGE 1 Tx slot	25.33	25.27	25.38	26.50	16.33	16.27	16.38	17.50
EDGE 2 Tx slots	23.23	22.95	23.06	24.00	17.23	16.95	17.06	18.00
EDGE 3 Tx slots	22.38	21.77	21.85	23.00	18.12	17.51	17.59	18.74
EDGE 4 Tx slots	21.30	20.63	20.77	22.00	18.30	17.63	17.77	19.00

Ant 1

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	29.01	29.10	28.80	29.50	20.01	20.10	19.80	20.50
GPRS 1 Tx slot	29.04	29.12	28.84	29.50	20.04	20.12	19.84	20.50
GPRS 2 Tx slots	26.86	26.38	26.43	27.00	20.86	20.38	20.43	21.00
GPRS 3 Tx slots	24.85	24.51	24.54	25.50	20.59	20.25	20.28	21.24
GPRS 4 Tx slots	24.27	23.76	23.78	25.00	21.27	20.76	20.78	22.00
EDGE 1 Tx slot	26.33	26.23	26.20	27.50	17.33	17.23	17.20	18.50
EDGE 2 Tx slots	24.69	24.53	24.46	25.50	18.69	18.53	18.46	19.50
EDGE 3 Tx slots	23.10	22.89	23.06	24.00	18.84	18.63	18.80	19.74
EDGE 4 Tx slots	22.54	22.29	22.27	23.50	19.54	19.29	19.27	20.50

Ant 3

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	27.25	27.40	27.39	27.50	18.25	18.40	18.39	18.50
GPRS 1 Tx slot	27.30	27.43	27.42	27.50	18.30	18.43	18.42	18.50
GPRS 2 Tx slots	24.83	24.90	24.94	25.00	18.83	18.90	18.94	19.00
GPRS 3 Tx slots	23.30	23.42	23.39	24.00	19.04	19.16	19.13	19.74
GPRS 4 Tx slots	21.96	21.99	21.97	22.50	18.96	18.99	18.97	19.50
EDGE 1 Tx slot	25.18	25.24	25.26	26.50	16.18	16.24	16.26	17.50
EDGE 2 Tx slots	23.35	22.85	22.86	24.00	17.35	16.85	16.86	18.00
EDGE 3 Tx slots	22.16	21.67	21.74	23.00	17.90	17.41	17.48	18.74
EDGE 4 Tx slots	20.60	20.20	20.14	21.50	17.60	17.20	17.14	18.50

Ant 1

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	29.01	29.10	28.80	30.00	20.01	20.10	19.80	21.00
GPRS 1 Tx slot	29.04	29.12	28.84	30.00	20.04	20.12	19.84	21.00
GPRS 2 Tx slots	26.86	26.38	26.43	27.50	20.86	20.38	20.43	21.50
GPRS 3 Tx slots	24.85	24.51	24.54	26.00	20.59	20.25	20.28	21.74
GPRS 4 Tx slots	24.27	23.76	23.78	25.50	21.27	20.76	20.78	22.50
EDGE 1 Tx slot	26.33	26.23	26.20	28.00	17.33	17.23	17.20	19.00
EDGE 2 Tx slots	24.69	24.53	24.46	26.00	18.69	18.53	18.46	20.00
EDGE 3 Tx slots	23.10	22.89	23.06	24.50	18.84	18.63	18.80	20.24
EDGE 4 Tx slots	22.54	22.29	22.27	24.00	19.54	19.29	19.27	21.00

Ant 3

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	27.25	27.40	27.39	28.00	18.25	18.40	18.39	19.00
GPRS 1 Tx slot	27.30	27.43	27.42	28.00	18.30	18.43	18.42	19.00
GPRS 2 Tx slots	24.83	24.90	24.94	25.50	18.83	18.90	18.94	19.50
GPRS 3 Tx slots	23.30	23.42	23.39	24.50	19.04	19.16	19.13	20.24
GPRS 4 Tx slots	21.96	21.99	21.97	23.00	18.96	18.99	18.97	20.00
EDGE 1 Tx slot	25.18	25.24	25.26	27.00	16.18	16.24	16.26	18.00
EDGE 2 Tx slots	23.35	22.85	22.86	24.50	17.35	16.85	16.86	18.50
EDGE 3 Tx slots	22.16	21.67	21.74	23.50	17.90	17.41	17.48	19.24
EDGE 4 Tx slots	20.60	20.20	20.14	22.00	17.60	17.20	17.14	19.00

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	32.85	32.68	32.50	33.00	23.85	23.68	23.50	24.00
GPRS 1 Tx slot	32.90	32.70	32.54	33.00	23.90	23.70	23.54	24.00
GPRS 2 Tx slots	30.30	29.90	29.82	31.00	24.30	23.90	23.82	25.00
GPRS 3 Tx slots	28.74	27.96	27.91	29.50	24.48	23.70	23.65	25.24
GPRS 4 Tx slots	28.56	27.67	27.66	29.00	25.56	24.67	24.66	26.00
EDGE 1 Tx slot	26.40	26.25	26.12	28.00	17.40	17.25	17.12	19.00
EDGE 2 Tx slots	24.63	24.43	24.50	25.50	18.63	18.43	18.50	19.50
EDGE 3 Tx slots	23.04	22.78	22.99	24.00	18.78	18.52	18.73	19.74
EDGE 4 Tx slots	22.37	22.22	22.32	23.50	19.37	19.22	19.32	20.50

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	24.80	24.95	24.91	25.00	15.80	15.95	15.91	16.00
GPRS 1 Tx slot	24.84	24.97	24.94	25.00	15.84	15.97	15.94	16.00
GPRS 2 Tx slots	22.20	22.26	22.17	22.50	16.20	16.26	16.17	16.50
GPRS 3 Tx slots	19.12	19.22	19.19	21.00	14.86	14.96	14.93	16.74
GPRS 4 Tx slots	19.08	19.11	19.00	19.50	16.08	16.11	16.00	16.50
EDGE 1 Tx slot	23.27	23.27	23.27	23.50	14.27	14.27	14.27	14.50
EDGE 2 Tx slots	20.71	20.39	20.23	21.00	14.71	14.39	14.23	15.00
EDGE 3 Tx slots	20.22	19.53	19.89	20.50	15.96	15.27	15.63	16.24
EDGE 4 Tx slots	17.04	16.70	16.68	17.50	14.04	13.70	13.68	14.50

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	29.54	29.35	29.58	30.00	20.54	20.35	20.58	21.00
GPRS 1 Tx slot	29.56	29.37	29.59	30.00	20.56	20.37	20.59	21.00
GPRS 2 Tx slots	27.86	27.63	27.98	28.00	21.86	21.63	21.98	22.00
GPRS 3 Tx slots	26.29	26.16	26.10	26.50	22.03	21.90	21.84	22.24
GPRS 4 Tx slots	25.38	25.19	25.36	26.00	22.38	22.19	22.36	23.00
EDGE 1 Tx slot	26.58	26.54	26.50	28.00	17.58	17.54	17.50	19.00
EDGE 2 Tx slots	24.92	24.76	24.78	25.50	18.92	18.76	18.78	19.50
EDGE 3 Tx slots	23.25	23.05	23.06	24.00	18.99	18.79	18.80	19.74
EDGE 4 Tx slots	22.75	22.33	22.44	23.50	19.75	19.33	19.44	20.50

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	20.59	20.61	20.55	22.00	11.59	11.61	11.55	13.00
GPRS 1 Tx slot	20.61	20.62	20.58	22.00	11.61	11.62	11.58	13.00
GPRS 2 Tx slots	18.21	18.28	18.87	19.50	12.21	12.28	12.87	13.50
GPRS 3 Tx slots	17.53	17.63	17.60	18.50	13.27	13.37	13.34	14.24
GPRS 4 Tx slots	15.86	15.93	15.86	17.00	12.86	12.93	12.86	14.00
EDGE 1 Tx slot	21.05	21.03	21.21	21.50	12.05	12.03	12.21	12.50
EDGE 2 Tx slots	17.14	17.12	17.24	18.00	11.14	11.12	11.24	12.00
EDGE 3 Tx slots	17.13	17.22	17.36	17.50	12.87	12.96	13.10	13.24
EDGE 4 Tx slots	15.53	15.51	15.59	16.00	12.53	12.51	12.59	13.00

Ant 0

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	29.54	29.35	29.58	30.50	20.54	20.35	20.58	21.50
GPRS 1 Tx slot	29.56	29.37	29.59	30.50	20.56	20.37	20.59	21.50
GPRS 2 Tx slots	27.86	27.63	27.98	28.50	21.86	21.63	21.98	22.50
GPRS 3 Tx slots	26.29	26.16	26.10	27.00	22.03	21.90	21.84	22.74
GPRS 4 Tx slots	25.30	25.11	25.47	26.50	22.30	22.11	22.47	23.50
EDGE 1 Tx slot	26.58	26.54	26.50	28.50	17.58	17.54	17.50	19.50
EDGE 2 Tx slots	24.92	24.76	24.78	26.00	18.92	18.76	18.78	20.00
EDGE 3 Tx slots	23.25	23.05	23.06	24.50	18.99	18.79	18.80	20.24
EDGE 4 Tx slots	22.75	22.33	22.44	24.00	19.75	19.33	19.44	21.00

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	20.59	20.61	20.55	22.50	11.59	11.61	11.55	13.50
GPRS 1 Tx slot	20.61	20.62	20.58	22.50	11.61	11.62	11.58	13.50
GPRS 2 Tx slots	18.21	18.28	18.87	20.00	12.21	12.28	12.87	14.00
GPRS 3 Tx slots	17.53	17.63	17.60	19.00	13.27	13.37	13.34	14.74
GPRS 4 Tx slots	15.86	15.93	15.86	17.50	12.86	12.93	12.86	14.50
EDGE 1 Tx slot	21.05	21.03	21.21	22.00	12.05	12.03	12.21	13.00
EDGE 2 Tx slots	17.14	17.12	17.24	18.50	11.14	11.12	11.24	12.50
EDGE 3 Tx slots	17.13	17.22	17.36	18.00	12.87	12.96	13.10	13.74
EDGE 4 Tx slots	15.53	15.51	15.59	16.50	12.53	12.51	12.59	13.50

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	31.58	31.35	31.60	32.00	22.58	22.35	22.60	23.00
GPRS 1 Tx slot	31.60	31.37	31.64	32.00	22.60	22.37	22.64	23.00
GPRS 2 Tx slots	29.29	28.72	28.85	30.00	23.29	22.72	22.85	24.00
GPRS 3 Tx slots	28.37	27.69	27.57	28.50	24.11	23.43	23.31	24.24
GPRS 4 Tx slots	27.39	26.56	26.93	28.00	24.39	23.56	23.93	25.00
EDGE 1 Tx slot	26.32	26.04	26.25	27.50	17.32	17.04	17.25	18.50
EDGE 2 Tx slots	24.43	24.45	24.27	25.50	18.43	18.45	18.27	19.50
EDGE 3 Tx slots	22.99	22.89	22.83	24.00	18.73	18.63	18.57	19.74
EDGE 4 Tx slots	22.35	22.23	22.23	23.50	19.35	19.23	19.23	20.50

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	26.08	26.25	26.21	26.50	17.08	17.25	17.21	17.50
GPRS 1 Tx slot	26.11	26.27	26.24	26.50	17.11	17.27	17.24	17.50
GPRS 2 Tx slots	23.42	23.50	23.40	24.00	17.42	17.50	17.40	18.00
GPRS 3 Tx slots	22.49	22.53	22.42	23.00	18.23	18.27	18.16	18.74
GPRS 4 Tx slots	18.92	18.94	18.87	20.50	15.92	15.94	15.87	17.50
EDGE 1 Tx slot	25.14	25.22	25.04	25.50	16.14	16.22	16.04	16.50
EDGE 2 Tx slots	22.27	21.99	21.85	22.50	16.27	15.99	15.85	16.50
EDGE 3 Tx slots	21.17	20.75	20.69	21.50	16.91	16.49	16.43	17.24
EDGE 4 Tx slots	19.95	19.27	19.61	20.00	16.95	16.27	16.61	17.00

Ant 0

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	29.55	29.32	29.56	30.00	20.55	20.32	20.56	21.00
GPRS 1 Tx slot	29.59	29.36	29.58	30.00	20.59	20.36	20.58	21.00
GPRS 2 Tx slots	27.96	27.44	27.75	28.00	21.96	21.44	21.75	22.00
GPRS 3 Tx slots	26.39	25.89	25.82	26.50	22.13	21.63	21.56	22.24
GPRS 4 Tx slots	25.39	24.82	25.14	26.00	22.39	21.82	22.14	23.00
EDGE 1 Tx slot	26.44	26.30	26.30	27.50	17.44	17.30	17.30	18.50
EDGE 2 Tx slots	24.91	24.60	24.68	25.50	18.91	18.60	18.68	19.50
EDGE 3 Tx slots	23.19	22.93	22.98	24.00	18.93	18.67	18.72	19.74
EDGE 4 Tx slots	22.56	22.20	22.42	23.50	19.56	19.20	19.42	20.50

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	24.50	24.65	24.55	25.00	15.50	15.65	15.55	16.00
GPRS 1 Tx slot	24.54	24.69	24.59	25.00	15.54	15.69	15.59	16.00
GPRS 2 Tx slots	20.50	20.54	20.50	22.50	14.50	14.54	14.50	16.50
GPRS 3 Tx slots	21.44	21.49	21.48	21.50	17.18	17.23	17.22	17.24
GPRS 4 Tx slots	18.15	18.23	18.83	20.00	15.15	15.23	15.83	17.00
EDGE 1 Tx slot	23.04	22.99	22.78	23.50	14.04	13.99	13.78	14.50
EDGE 2 Tx slots	20.80	20.61	20.65	21.00	14.80	14.61	14.65	15.00
EDGE 3 Tx slots	19.74	19.34	19.25	20.00	15.48	15.08	14.99	15.74
EDGE 4 Tx slots	16.76	16.45	16.29	17.00	13.76	13.45	13.29	14.00

Ant 0

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	29.55	29.32	29.56	30.50	20.55	20.32	20.56	21.50
GPRS 1 Tx slot	29.59	29.36	29.58	30.50	20.59	20.36	20.58	21.50
GPRS 2 Tx slots	27.96	27.44	27.75	28.50	21.96	21.44	21.75	22.50
GPRS 3 Tx slots	26.39	25.89	25.82	27.00	22.13	21.63	21.56	22.74
GPRS 4 Tx slots	25.39	24.82	25.14	26.50	22.39	21.82	22.14	23.50
EDGE 1 Tx slot	26.44	26.30	26.30	28.00	17.44	17.30	17.30	19.00
EDGE 2 Tx slots	24.91	24.60	24.68	26.00	18.91	18.60	18.68	20.00
EDGE 3 Tx slots	23.19	22.93	22.98	24.50	18.93	18.67	18.72	20.24
EDGE 4 Tx slots	22.56	22.20	22.42	24.00	19.56	19.20	19.42	21.00

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	24.50	24.65	24.55	25.00	15.50	15.65	15.55	16.00
GPRS 1 Tx slot	24.54	24.69	24.59	25.00	15.54	15.69	15.59	16.00
GPRS 2 Tx slots	20.50	20.54	20.50	22.50	14.50	14.54	14.50	16.50
GPRS 3 Tx slots	21.44	21.49	21.50	21.50	17.18	17.23	17.24	17.24
GPRS 4 Tx slots	18.15	18.23	18.83	20.00	15.15	15.23	15.83	17.00
EDGE 1 Tx slot	23.04	22.99	22.78	23.50	14.04	13.99	13.78	14.50
EDGE 2 Tx slots	20.80	20.61	20.65	21.00	14.80	14.61	14.65	15.00
EDGE 3 Tx slots	19.74	19.34	19.25	20.00	15.48	15.08	14.99	15.74
EDGE 4 Tx slots	16.76	16.45	16.29	17.00	13.76	13.45	13.29	14.00

<WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required
3. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the
4. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1"
5. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR

A summary of these settings are illustrated below:

HSDPA Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors (β_c and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
 - iii. Set RMC 12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters
 - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2
 - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{hs} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and $\Delta_{NACK} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$, and $\Delta_{CQI} = 24/15$ with $\beta_{hs} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSUPA Setup Configuration:

- The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- The RF path losses were compensated into the measurements.
- A call was established between EUT and Base Station with following setting * :
 - Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - Set the Gain Factors (β_c and β_d) and parameters (AG Index) were set according to each specific sub-test in
 - Set Cell Power = -86 dBm
 - Set Channel Type = 12.2k + HSPA
 - Set UE Target Power
 - Power Ctrl Mode= Alternating bits
 - Set and observe the E-TFCI
 - Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note1)	β_{ec}	β_{ed} (Note 4) (Note 5)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ with $\beta_{hs} = 5/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

Setup Configuration

DC-HSDPA 3GPP release 8 Setup Configuration:

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration below
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set RMC 12.2Kbps + HSDPA mode.
 - ii. Set Cell Power = -25 dBm
 - iii. Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
 - iv. Select HSDPA Uplink Parameters
 - v. Set Gain Factors (β_c and β_d) and parameters were set according to each Specific sub-test in the following table, C10.1.4
 - a). Subtest 1: $\beta_c/\beta_d=2/15$
 - b). Subtest 2: $\beta_c/\beta_d=12/15$
 - c). Subtest 3: $\beta_c/\beta_d=15/8$
 - d). Subtest 4: $\beta_c/\beta_d=15/4$
 - vi. Set Delta ACK, Delta NACK and Delta CQI = 8
 - vii. Set Ack-Nack Repetition Factor to 3
 - viii. Set CQI Feedback Cycle (k) to 4 ms
 - ix. Set CQI Repetition Factor to 2
 - x. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

C.8.1.12 Fixed Reference Channel Definition H-Set 12

Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table. Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.		

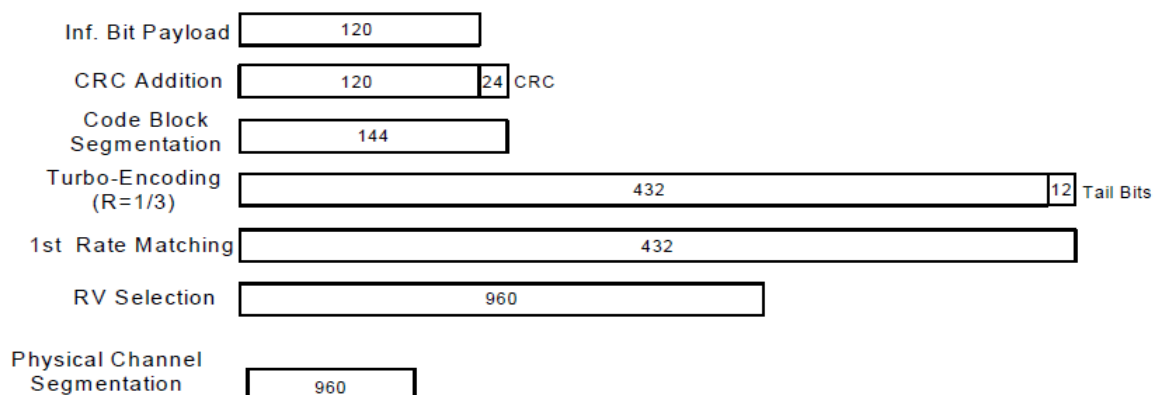


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK) Setup Configuration



Ant 3					Ant 3					Ant 1				
Band		WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA V			Tune-up Limit (dBm)	
TX Channel		9262	9400	9538										
Rx Channel		9662	9800	9938										
Frequency (MHz)		1852.4	1880	1907.6										
3GPP Rel 99	AMR 12.2Kbps	22.83	22.88	22.94	24.00	22.93	22.95	22.93	24.00	23.98	24.01	23.98	25.00	
3GPP Rel 99	RMC 12.2Kbps	22.85	22.90	22.96	24.00	22.94	22.97	22.94	24.00	23.99	24.03	23.99	25.00	
3GPP Rel 6	HSDPA Subtest-1	22.42	22.47	22.48	23.50	22.47	22.52	22.51	23.50	22.99	23.04	23.01	24.50	
3GPP Rel 6	HSDPA Subtest-2	22.44	22.46	22.48	23.50	22.46	22.53	22.50	23.50	23.00	23.04	23.01	24.50	
3GPP Rel 6	HSDPA Subtest-3	21.39	21.45	21.52	23.00	21.46	21.51	21.49	23.00	22.50	22.54	22.52	24.00	
3GPP Rel 6	HSDPA Subtest-4	21.39	21.44	21.51	23.00	21.45	21.52	21.48	23.00	22.48	22.53	22.51	24.00	
3GPP Rel 8	DC-HSDPA Subtest-1	22.39	22.45	22.39	23.50	22.41	22.45	22.48	23.50	22.94	22.95	22.97	24.50	
3GPP Rel 8	DC-HSDPA Subtest-2	22.40	22.44	22.42	23.50	22.39	22.44	22.44	23.50	22.97	23.01	23.01	24.50	
3GPP Rel 8	DC-HSDPA Subtest-3	21.37	21.36	21.43	23.00	21.43	21.48	21.47	23.00	22.46	22.46	22.49	24.00	
3GPP Rel 8	DC-HSDPA Subtest-4	21.33	21.37	21.44	23.00	21.45	21.46	21.48	23.00	22.38	22.43	22.42	24.00	
3GPP Rel 6	HSUPA Subtest-1	22.46	22.21	22.50	23.50	22.18	22.54	22.51	23.50	22.99	23.02	23.00	24.50	
3GPP Rel 6	HSUPA Subtest-2	19.92	19.97	20.04	21.50	19.96	20.02	19.98	21.50	18.98	19.01	18.98	22.50	
3GPP Rel 6	HSUPA Subtest-3	20.92	20.97	21.03	22.50	20.96	21.02	21.00	22.50	19.50	19.51	19.41	23.50	
3GPP Rel 6	HSUPA Subtest-4	19.91	19.97	20.03	21.50	19.98	20.03	19.98	21.50	18.98	19.03	18.97	22.50	
3GPP Rel 6	HSUPA Subtest-5	22.40	22.50	22.50	23.50	22.50	22.50	22.50	23.50	23.00	23.00	23.00	24.50	

Ant 3					Ant 3				Ant 1				
Band		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 <th rowspan="4">4132</th> <th rowspan="4">4182</th> <th rowspan="4">4233</th>		4132	4182	4233	
Rx Channel		9662	9800	9938									
Frequency (MHz)		1852.4	1880	1907.6									
3GPP Rel 99	AMR 12.2Kbps	20.90	20.95	20.97	22.00	20.45	20.57	20.50	21.50	23.47	23.51	23.46	24.50
3GPP Rel 99	RMC 12.2Kbps	20.92	20.99	21.00	22.00	20.49	20.58	20.53	21.50	23.51	23.56	23.51	24.50
3GPP Rel 6	HSDPA Subtest-1	20.49	20.49	20.52	21.50	20.07	20.08	20.05	21.00	22.51	22.55	22.53	24.00
3GPP Rel 6	HSDPA Subtest-2	20.47	20.55	20.51	21.50	20.01	20.08	20.05	21.00	22.52	22.56	22.52	24.00
3GPP Rel 6	HSDPA Subtest-3	19.48	19.53	19.54	21.00	19.08	19.10	19.03	20.50	22.04	22.05	22.01	23.50
3GPP Rel 6	HSDPA Subtest-4	19.44	19.53	19.56	21.00	19.04	19.06	19.04	20.50	22.05	22.06	22.04	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	20.55	20.48	20.43	21.50	20.16	20.11	20.04	21.00	22.52	22.46	22.49	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	20.39	20.47	20.59	21.50	20.02	20.04	20.01	21.00	22.56	22.50	22.47	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	19.56	19.59	19.57	21.00	19.17	19.01	18.97	20.50	21.94	22.01	22.02	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	19.42	19.54	19.52	21.00	19.02	19.08	18.97	20.50	22.14	22.03	22.06	23.50
3GPP Rel 6	HSUPA Subtest-1	20.49	20.51	20.54	22.00	19.71	19.79	19.77	21.00	22.55	22.53	22.56	24.00
3GPP Rel 6	HSUPA Subtest-2	18.00	18.02	18.02	20.00	17.54	17.55	17.49	19.00	18.53	18.57	18.55	22.00
3GPP Rel 6	HSUPA Subtest-3	19.01	19.03	19.05	21.00	18.55	18.56	18.57	20.00	19.00	19.06	19.01	23.00
3GPP Rel 6	HSUPA Subtest-4	18.00	18.04	18.01	20.00	17.57	17.59	17.55	19.00	18.51	18.54	18.53	22.00
3GPP Rel 6	HSUPA Subtest-5	20.50	20.50	20.50	22.00	20.00	20.00	20.10	21.00	22.50	22.50	22.50	24.00



Ant 3					Ant 3					Ant 1				
Band		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	18.83	18.90	18.89	20.00	18.42	18.53	18.51	19.50	22.01	22.06	22.02	23.00	
3GPP Rel 99	RMC 12.2Kbps	18.88	18.93	18.90	20.00	18.46	18.55	18.50	19.50	22.05	22.07	22.05	23.00	
3GPP Rel 6	HSDPA Subtest-1	18.36	18.44	18.48	19.00	18.03	18.04	17.99	18.50	21.08	21.07	21.02	22.00	
3GPP Rel 6	HSDPA Subtest-2	18.38	18.45	18.49	19.00	18.00	18.09	17.99	18.50	21.06	21.06	21.04	22.00	
3GPP Rel 6	HSDPA Subtest-3	17.37	17.43	17.50	18.50	16.97	17.06	16.99	18.00	20.56	20.57	20.53	21.50	
3GPP Rel 6	HSDPA Subtest-4	17.37	17.47	17.48	18.50	16.98	17.06	16.99	18.00	20.59	20.54	20.54	21.50	
3GPP Rel 8	DC-HSDPA Subtest-1	18.33	18.50	18.42	19.00	18.10	18.04	18.07	18.50	21.17	21.10	21.12	22.00	
3GPP Rel 8	DC-HSDPA Subtest-2	18.44	18.35	18.57	19.00	17.96	18.11	17.95	18.50	21.07	21.12	21.02	22.00	
3GPP Rel 8	DC-HSDPA Subtest-3	17.27	17.36	17.41	18.50	17.03	17.13	17.07	18.00	20.65	20.47	20.55	21.50	
3GPP Rel 8	DC-HSDPA Subtest-4	17.40	17.54	17.53	18.50	16.96	17.15	16.90	18.00	20.58	20.61	20.49	21.50	
3GPP Rel 6	HSUPA Subtest-1	18.43	18.39	18.47	19.00	17.70	17.72	17.66	18.50	21.04	21.08	21.04	22.00	
3GPP Rel 6	HSUPA Subtest-2	15.94	15.90	15.94	17.00	15.54	15.53	15.47	16.50	17.10	17.10	17.10	18.50	
3GPP Rel 6	HSUPA Subtest-3	16.83	16.95	16.92	18.00	16.50	16.53	16.51	17.50	17.57	17.56	17.55	19.00	
3GPP Rel 6	HSUPA Subtest-4	15.94	15.92	15.98	17.00	15.47	15.50	15.49	16.50	17.05	17.10	17.08	18.50	
3GPP Rel 6	HSUPA Subtest-5	18.40	18.40	18.50	19.00	18.00	18.10	18.00	18.50	21.10	21.10	21.00	22.00	



		Ant 3				Ant 3				Ant 1			
Band		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	18.83	18.90	18.89	20.50	18.42	18.53	18.51	20.00	22.01	22.06	22.02	23.50
3GPP Rel 99	RMC 12.2Kbps	18.88	18.93	18.93	20.50	18.46	18.55	18.50	20.00	22.05	22.07	22.05	23.50
3GPP Rel 6	HSDPA Subtest-1	18.36	18.44	18.48	19.50	18.03	18.04	17.99	19.00	21.08	21.07	21.02	22.50
3GPP Rel 6	HSDPA Subtest-2	18.38	18.45	18.49	19.50	18.00	18.09	17.99	19.00	21.06	21.06	21.04	22.50
3GPP Rel 6	HSDPA Subtest-3	17.37	17.43	17.50	19.00	16.97	17.06	16.99	18.50	20.56	20.57	20.53	22.00
3GPP Rel 6	HSDPA Subtest-4	17.37	17.47	17.48	19.00	16.98	17.06	16.99	18.50	20.59	20.54	20.54	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	18.33	18.50	18.42	19.50	18.10	18.04	18.07	19.00	21.17	21.10	21.12	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	18.44	18.35	18.57	19.50	17.96	18.11	17.95	19.00	21.07	21.12	21.02	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	17.27	17.36	17.41	19.00	17.03	17.13	17.07	18.50	20.65	20.47	20.55	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	17.40	17.54	17.53	19.00	16.96	17.15	16.90	18.50	20.58	20.61	20.49	22.00
3GPP Rel 6	HSUPA Subtest-1	18.43	18.39	18.47	19.50	17.70	17.72	17.66	19.00	21.04	21.08	21.04	22.50
3GPP Rel 6	HSUPA Subtest-2	15.94	15.90	15.94	17.50	15.54	15.53	15.47	17.00	17.10	17.10	17.10	19.00
3GPP Rel 6	HSUPA Subtest-3	16.83	16.95	16.92	18.50	16.50	16.53	16.51	18.00	17.57	17.56	17.55	19.50
3GPP Rel 6	HSUPA Subtest-4	15.94	15.92	15.98	17.50	15.47	15.50	15.49	17.00	17.05	17.10	17.08	19.00
3GPP Rel 6	HSUPA Subtest-5	18.40	18.40	18.50	19.50	18.00	18.10	18.00	19.00	21.10	21.10	21.00	22.50



PORTON LAB.		Ant 2				Ant 2				Ant 0			
Band		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	15.77	15.75	15.71	17.00	15.26	15.28	15.23	16.50	24.01	24.00	23.98	25.00
3GPP Rel 99	RMC 12.2Kbps	15.87	15.85	15.83	17.00	15.31	15.36	15.34	16.50	24.03	24.02	23.98	25.00
3GPP Rel 6	HSDPA Subtest-1	15.35	15.35	15.37	16.00	14.87	14.89	14.88	15.50	23.00	23.04	23.01	24.50
3GPP Rel 6	HSDPA Subtest-2	15.35	15.40	15.34	16.00	14.85	14.88	14.89	15.50	23.00	23.04	23.01	24.50
3GPP Rel 6	HSDPA Subtest-3	14.37	14.37	14.38	15.50	13.79	13.84	13.91	15.00	22.51	22.53	22.49	24.00
3GPP Rel 6	HSDPA Subtest-4	14.38	14.39	14.37	15.50	13.79	13.85	13.89	15.00	22.50	22.52	22.51	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	15.26	15.35	15.42	16.00	14.81	14.96	14.93	15.50	22.96	22.97	22.95	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	15.30	15.50	15.26	16.00	14.75	14.83	14.80	15.50	22.96	23.01	22.93	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	14.33	14.35	14.37	15.50	13.89	13.74	13.93	15.00	22.48	22.51	22.47	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	14.44	14.30	14.43	15.50	13.77	13.94	13.99	15.00	22.42	22.46	22.47	23.00
3GPP Rel 6	HSUPA Subtest-1	13.85	13.88	13.85	14.00	13.28	13.35	13.34	14.00	22.98	23.01	22.99	24.50
3GPP Rel 6	HSUPA Subtest-2	12.88	12.91	12.86	14.00	12.34	12.35	12.34	13.50	18.97	19.00	18.98	22.50
3GPP Rel 6	HSUPA Subtest-3	13.39	13.40	13.37	15.00	12.82	12.85	12.84	14.50	19.48	19.50	19.44	23.50
3GPP Rel 6	HSUPA Subtest-4	12.89	12.92	12.85	14.00	12.35	12.35	12.36	13.50	18.93	18.99	18.95	22.50
3GPP Rel 6	HSUPA Subtest-5	15.40	15.40	15.40	16.00	14.90	14.90	14.90	15.50	22.90	23.00	23.00	24.50



		Ant 2				Ant 2				Ant 0				
Band		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 <th>4132</th> <th>4182</th> <th>4233</th>		4132	4182	4233		
Rx Channel		9662	9800	9938		1537	1638	1738 <th>4357</th> <th>4407</th> <th>4458</th>		4357	4407	4458		
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6 <th>826.4</th> <th>836.4</th> <th>846.6</th>		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	12.82	12.85	12.84	14.00	12.35	12.39	12.36	13.50	22.43	22.48	22.45	23.50	
3GPP Rel 99	RMC 12.2Kbps	12.84	12.88	12.86	14.00	12.36	12.41	12.37	13.50	22.45	22.49	22.46	23.50	
3GPP Rel 6	HSDPA Subtest-1	12.37	12.39	12.39	13.00	11.89	11.96	11.89	12.50	21.47	21.48	21.46	22.50	
3GPP Rel 6	HSDPA Subtest-2	12.36	12.37	12.38	13.00	11.88	11.95	11.87	12.50	21.46	21.48	21.44	22.50	
3GPP Rel 6	HSDPA Subtest-3	11.35	11.39	11.38	12.50	10.87	10.91	10.86	12.00	20.96	20.99	20.96	22.00	
3GPP Rel 6	HSDPA Subtest-4	11.34	11.37	11.36	12.50	10.86	10.90	10.85	12.00	20.97	20.97	20.95	22.00	
3GPP Rel 8	DC-HSDPA Subtest-1	12.28	12.28	12.30	13.00	11.79	11.85	11.78	12.50	21.38	21.39	21.35	22.50	
3GPP Rel 8	DC-HSDPA Subtest-2	12.26	12.26	12.29	13.00	11.77	11.84	11.77	12.50	21.35	21.37	21.32	22.50	
3GPP Rel 8	DC-HSDPA Subtest-3	11.25	11.28	11.27	12.50	10.75	10.81	10.77	12.00	20.88	20.88	20.87	22.00	
3GPP Rel 8	DC-HSDPA Subtest-4	11.22	11.28	11.24	12.50	10.72	10.79	10.74	12.00	20.87	20.86	20.84	22.00	
3GPP Rel 6	HSUPA Subtest-1	11.05	11.12	11.04	12.50	10.35	10.42	10.37	11.50	21.50	21.47	21.43	22.50	
3GPP Rel 6	HSUPA Subtest-2	9.87	9.90	9.90	11.00	9.36	9.43	9.37	10.50	17.50	17.48	17.44	18.50	
3GPP Rel 6	HSUPA Subtest-3	10.42	10.43	10.42	11.50	9.85	9.89	9.87	11.00	17.95	17.99	17.97	19.00	
3GPP Rel 6	HSUPA Subtest-4	9.86	9.90	9.91	11.00	9.41	9.45	9.36	10.50	17.51	17.50	17.49	18.50	
3GPP Rel 6	HSUPA Subtest-5	12.40	12.40	12.40	13.00	11.90	11.94	11.92	12.50	21.50	21.48	21.47	22.50	

		Ant 2			Ant 2				Ant 0				
Band		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	12.82	12.85	12.84		14.50	12.35	12.39		12.36	14.00	22.43	
3GPP Rel 99	RMC 12.2Kbps	12.84	12.88	12.86	14.50	12.36	12.41	12.37	14.00	22.45	22.49	22.46	24.00
3GPP Rel 6	HSDPA Subtest-1	12.37	12.39	12.39	13.50	11.89	11.96	11.89	13.00	21.47	21.48	21.46	23.00
3GPP Rel 6	HSDPA Subtest-2	12.36	12.37	12.38	13.50	11.88	11.95	11.87	13.00	21.46	21.48	21.44	23.00
3GPP Rel 6	HSDPA Subtest-3	11.35	11.39	11.38	13.00	10.87	10.91	10.86	12.50	20.96	20.99	20.96	22.50
3GPP Rel 6	HSDPA Subtest-4	11.34	11.37	11.36	13.00	10.86	10.90	10.85	12.50	20.97	20.97	20.95	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	12.28	12.28	12.30	13.50	11.79	11.85	11.78	13.00	21.38	21.39	21.35	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	12.26	12.26	12.29	13.50	11.77	11.84	11.77	13.00	21.35	21.37	21.32	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	11.25	11.28	11.27	13.00	10.75	10.81	10.77	12.50	20.88	20.88	20.87	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	11.22	11.28	11.24	13.00	10.72	10.79	10.74	12.50	20.87	20.86	20.84	22.50
3GPP Rel 6	HSUPA Subtest-1	11.05	11.12	11.04	13.00	10.35	10.42	10.37	12.00	21.50	21.47	21.43	23.00
3GPP Rel 6	HSUPA Subtest-2	9.87	9.90	9.90	11.50	9.36	9.43	9.37	11.00	17.50	17.48	17.44	19.00
3GPP Rel 6	HSUPA Subtest-3	10.42	10.43	10.42	12.00	9.85	9.89	9.87	11.50	17.95	17.99	17.97	19.50
3GPP Rel 6	HSUPA Subtest-4	9.86	9.90	9.91	11.50	9.41	9.45	9.36	11.00	17.51	17.50	17.49	19.00
3GPP Rel 6	HSUPA Subtest-5	12.40	12.40	12.40	13.50	11.90	11.94	11.92	13.00	21.50	21.48	21.47	23.00

		Ant 2			Ant 2				Ant 0				
Band		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	18.30	18.29	18.35	19.50	17.82	17.83	17.82	19.00	24.01	24.00	23.98	25.00
3GPP Rel 99	RMC 12.2Kbps	18.33	18.31	18.36	19.50	17.83	17.85	17.83	19.00	24.03	24.02	23.98	25.00
3GPP Rel 6	HSDPA Subtest-1	17.82	17.85	17.87	18.50	17.33	17.40	17.33	18.00	23.00	23.04	23.01	24.50
3GPP Rel 6	HSDPA Subtest-2	17.81	17.85	17.88	18.50	17.34	17.37	17.36	18.00	23.00	23.04	23.01	24.50
3GPP Rel 6	HSDPA Subtest-3	16.86	16.83	16.87	18.00	16.35	16.38	16.34	17.50	22.51	22.53	22.49	24.00
3GPP Rel 6	HSDPA Subtest-4	16.85	16.84	16.82	18.00	16.30	16.37	16.37	17.50	22.50	22.52	22.51	24.00
3GPP Rel 8	DC-HSDPA Subtest-1	17.89	17.86	17.95	18.50	17.31	17.45	17.30	18.00	22.96	22.97	22.95	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	17.89	17.86	17.93	18.50	17.26	17.45	17.33	18.00	22.96	23.01	22.93	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	16.84	16.90	16.82	18.00	16.41	16.29	16.33	17.50	22.48	22.51	22.47	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	16.88	16.89	16.74	18.00	16.34	16.32	16.45	17.50	22.42	22.46	22.47	23.00
3GPP Rel 6	HSUPA Subtest-1	17.68	17.57	17.55	18.50	17.33	17.40	17.39	18.00	22.98	23.01	22.99	24.50
3GPP Rel 6	HSUPA Subtest-2	15.36	15.37	15.41	16.50	14.83	14.83	14.88	16.00	18.97	19.00	18.98	22.50
3GPP Rel 6	HSUPA Subtest-3	16.37	16.35	16.36	17.50	15.84	15.89	15.87	17.00	19.48	19.50	19.44	23.50
3GPP Rel 6	HSUPA Subtest-4	15.36	15.34	15.45	16.50	14.88	14.85	14.86	16.00	18.93	18.99	18.95	22.50
3GPP Rel 6	HSUPA Subtest-5	17.90	17.90	17.90	18.50	17.40	17.40	17.40	18.00	22.90	23.00	23.00	24.50

		Ant 2			Ant 2				Ant 0				
Band		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	16.30	16.34	16.28	17.50	15.81	15.87	15.80	17.00	21.95	21.95	21.90	23.00
3GPP Rel 99	RMC 12.2Kbps	16.32	16.35	16.36	17.50	15.86	15.91	15.83	17.00	21.97	21.96	21.93	23.00
3GPP Rel 6	HSDPA Subtest-1	15.87	15.84	15.89	16.50	15.39	15.36	15.33	16.00	20.99	20.95	20.94	22.00
3GPP Rel 6	HSDPA Subtest-2	15.86	15.82	15.87	16.50	15.33	15.38	15.34	16.00	20.93	20.98	20.94	22.00
3GPP Rel 6	HSDPA Subtest-3	14.83	14.91	14.81	16.00	14.38	14.41	14.38	15.50	20.44	20.48	20.44	21.50
3GPP Rel 6	HSDPA Subtest-4	14.85	14.86	14.84	16.00	14.37	14.40	14.38	15.50	20.47	20.50	20.45	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	15.89	15.83	15.94	16.50	15.38	15.38	15.25	16.00	21.02	20.88	20.87	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	15.90	15.73	15.80	16.50	15.28	15.33	15.44	16.00	20.99	21.01	20.92	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	14.76	14.94	14.82	16.00	14.39	14.46	14.34	15.50	20.41	20.54	20.43	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	14.88	14.85	14.76	16.00	14.29	14.50	14.36	15.50	20.42	20.58	20.40	21.50
3GPP Rel 6	HSUPA Subtest-1	14.34	14.35	14.29	15.50	13.89	13.85	13.85	15.00	20.98	21.00	20.95	22.00
3GPP Rel 6	HSUPA Subtest-2	13.40	13.33	13.37	14.50	12.90	12.86	12.88	14.00	16.93	16.97	16.99	18.00
3GPP Rel 6	HSUPA Subtest-3	14.86	13.87	13.86	15.00	13.38	13.38	13.39	14.50	17.45	17.48	17.44	18.50
3GPP Rel 6	HSUPA Subtest-4	13.39	13.42	13.39	14.50	12.87	12.91	12.91	14.00	16.94	16.98	16.96	18.00
3GPP Rel 6	HSUPA Subtest-5	15.90	15.80	15.90	16.50	15.30	15.40	15.40	16.00	21.00	21.00	20.90	22.00



		Ant 2				Ant 2				Ant 0			
Band		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	16.30	16.34	16.28	18.00	15.81	15.87	15.80	17.50	21.95	21.97	21.90	23.50
3GPP Rel 99	RMC 12.2Kbps	16.32	16.36	16.32	18.00	15.86	15.91	15.83	17.50	21.97	21.98	21.93	23.50
3GPP Rel 6	HSDPA Subtest-1	15.87	15.84	15.89	17.00	15.39	15.36	15.33	16.50	20.99	20.95	20.94	22.50
3GPP Rel 6	HSDPA Subtest-2	15.86	15.82	15.87	17.00	15.33	15.38	15.34	16.50	20.93	20.98	20.94	22.50
3GPP Rel 6	HSDPA Subtest-3	14.83	14.91	14.81	16.50	14.38	14.41	14.38	16.00	20.44	20.48	20.44	22.00
3GPP Rel 6	HSDPA Subtest-4	14.85	14.86	14.84	16.50	14.37	14.40	14.38	16.00	20.47	20.50	20.45	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	15.89	15.83	15.94	17.00	15.38	15.38	15.25	16.50	21.02	20.88	20.87	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	15.90	15.73	15.80	17.00	15.28	15.33	15.44	16.50	20.99	21.01	20.92	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	14.76	14.94	14.82	16.50	14.39	14.46	14.34	16.00	20.41	20.54	20.43	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	14.88	14.85	14.76	16.50	14.29	14.50	14.36	16.00	20.42	20.58	20.40	22.00
3GPP Rel 6	HSUPA Subtest-1	14.34	14.35	14.29	16.00	13.89	13.85	13.85	15.50	20.98	21.00	20.95	22.50
3GPP Rel 6	HSUPA Subtest-2	13.40	13.33	13.37	15.00	12.90	12.86	12.88	14.50	16.93	16.97	16.99	18.50
3GPP Rel 6	HSUPA Subtest-3	14.86	13.87	13.86	15.50	13.38	13.38	13.39	15.00	17.45	17.48	17.44	19.00
3GPP Rel 6	HSUPA Subtest-4	13.39	13.42	13.39	15.00	12.87	12.91	12.91	14.50	16.94	16.98	16.96	18.50
3GPP Rel 6	HSUPA Subtest-5	15.90	15.80	15.90	17.00	15.30	15.40	15.40	16.50	21.00	21.00	20.90	22.50

<LTE Conducted Power>

General Note:

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the
6. Per KDB 941225 D05v02r05, 16QAM output power for each RB allocation configuration is > not ½ dB higher than the
7. Per KDB 941225 D05v02r05, Smaller bandwidth output power for each RB allocation configuration is > not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth
9. According to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. the maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test
 - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to 2017 TCB workshop, for 64 QAM and 16 QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.



64QAM



16QAM



Band 2_Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 18700	Power Middle Ch. Freq. 18800	Power High Ch. Freq. 19100	Tune-up limit (dBm)
Channel				18600	18800	19000	
Frequency (MHz)				18600	18800	19000	
20	QPSK	1	0	23.15	23.10	23.14	24
20	QPSK	1	49	23.01	23.02	23.06	
20	QPSK	1	99	22.99	23.09	23.04	
20	QPSK	50	0	22.11	22.04	22.07	
20	QPSK	50	24	22.23	22.22	22.17	23
20	QPSK	50	50	22.15	22.20	22.16	
20	QPSK	100	0	22.14	22.13	22.10	
20	16QAM	1	0	22.46	22.41	22.43	
20	16QAM	1	49	22.39	22.38	22.47	23
20	16QAM	1	99	22.36	22.42	22.43	
20	16QAM	50	0	21.12	21.05	21.09	
20	16QAM	50	24	21.21	21.23	21.17	22
20	16QAM	50	50	21.17	21.22	21.23	
20	16QAM	100	0	21.14	21.15	21.11	
20	64QAM	1	0	21.36	21.27	21.29	
20	64QAM	1	49	21.23	21.26	21.33	22
20	64QAM	1	99	21.25	21.31	21.26	
20	64QAM	50	0	20.14	20.08	20.10	
20	64QAM	50	24	20.24	20.24	20.20	
20	64QAM	50	50	20.20	20.22	20.25	21
20	64QAM	100	0	20.17	20.18	20.13	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	18800	1902.5	
15	QPSK	1	0	22.99	23.07	23.05	24
15	QPSK	1	37	23.03	23.07	23.08	
15	QPSK	1	74	23.01	23.13	23.11	
15	QPSK	36	0	22.18	22.09	22.12	
15	QPSK	36	20	22.22	22.26	22.28	23
15	QPSK	36	39	22.21	22.25	22.24	
15	QPSK	75	0	22.20	22.20	22.14	
15	16QAM	1	0	22.30	22.41	22.45	
15	16QAM	1	37	22.40	22.42	22.39	23
15	16QAM	1	74	22.33	22.45	22.44	
15	16QAM	36	0	21.19	21.10	21.12	
15	16QAM	36	20	21.23	21.24	21.26	22
15	16QAM	36	39	21.21	21.25	21.25	
15	16QAM	75	0	21.26	21.21	21.16	
15	64QAM	1	0	21.30	21.27	21.30	
15	64QAM	1	37	21.28	21.29	21.33	22
15	64QAM	1	74	21.23	21.36	21.30	
15	64QAM	36	0	20.22	20.13	20.15	
15	64QAM	36	20	20.26	20.26	20.29	
15	64QAM	36	39	20.24	20.28	20.25	21
15	64QAM	75	0	20.22	20.22	20.15	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	18800	1905	
10	QPSK	1	0	22.67	22.58	22.58	24
10	QPSK	1	25	22.60	22.62	22.64	
10	QPSK	1	49	22.66	22.74	22.69	
10	QPSK	25	0	22.01	21.91	21.94	
10	QPSK	25	12	22.06	22.08	22.02	23
10	QPSK	25	25	21.96	21.98	21.98	
10	QPSK	50	0	21.97	21.97	21.93	
10	16QAM	1	0	22.03	21.99	22.35	
10	16QAM	1	25	22.31	22.32	22.34	23
10	16QAM	1	49	22.02	22.07	22.32	
10	16QAM	25	0	20.99	20.91	20.94	
10	16QAM	25	12	21.09	21.11	21.02	
10	16QAM	25	25	20.96	20.97	20.99	22
10	16QAM	50	0	20.98	21.00	20.94	
10	64QAM	1	0	20.97	20.92	21.24	
10	64QAM	1	25	21.24	21.23	21.28	
10	64QAM	1	49	20.93	20.98	21.25	21
10	64QAM	25	0	19.99	19.95	19.96	
10	64QAM	25	12	20.10	20.14	20.07	
10	64QAM	25	25	19.95	20.02	20.01	
10	64QAM	50	0	20.00	20.02	19.97	Tune-up limit (dBm)
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	18800	1907.5	
5	QPSK	1	0	22.94	22.88	22.91	24
5	QPSK	1	12	23.00	23.01	23.01	
5	QPSK	1	24	22.87	22.80	22.89	
5	QPSK	12	0	22.09	22.03	22.05	
5	QPSK	12	7	22.13	22.09	22.05	23
5	QPSK	12	13	22.01	22.04	22.04	
5	QPSK	25	0	22.05	22.05	22.00	
5	16QAM	1	0	22.27	22.19	22.21	
5	16QAM	1	12	22.27	22.27	22.31	23
5	16QAM	1	24	22.19	22.21	22.18	
5	16QAM	12	0	21.11	21.04	21.04	
5	16QAM	12	7	21.11	21.13	21.04	
5	16QAM	12	13	21.04	21.04	21.05	22
5	16QAM	25	0	21.07	21.09	21.02	
5	64QAM	1	0	21.22	21.17	21.13	
5	64QAM	1	12	21.16	21.18	21.19	
5	64QAM	1	24	21.06	21.10	21.07	21
5	64QAM	12	0	20.19	20.10	20.11	
5	64QAM	12	7	20.19	20.18	20.11	
5	64QAM	12	13	20.08	20.09	20.12	
5	64QAM	25	0	20.08	20.08	20.03	Tune-up limit (dBm)
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	18800	1906.5	
3	QPSK	1	0	23.10	22.99	23.09	24
3	QPSK	1	8	23.08	23.08	23.11	
3	QPSK	1	14	22.94	22.86	22.96	
3	QPSK	8	0	22.16	22.12	22.17	
3	QPSK	8	4	22.14	22.14	22.14	23
3	QPSK	8	7	22.10	22.09	22.08	
3	QPSK	15	0	22.13	22.11	22.15	
3	16QAM	1	0	22.37	22.31	22.38	
3	16QAM	1	8	22.39	22.44	22.43	23
3	16QAM	1	14	22.28	22.33	22.29	
3	16QAM	8	0	21.20	21.18	21.19	
3	16QAM	8	4	21.22	21.19	21.18	
3	16QAM	8	7	21.12	21.14	21.16	22
3	16QAM	15	0	21.17	21.17	21.14	
3	64QAM	1	0	21.31	21.24	21.32	
3	64QAM	1	8	21.27	21.31	21.32	
3	64QAM	1	14	21.18	21.21	21.18	21
3	64QAM	8	0	20.24	20.19	20.21	
3	64QAM	8	4	20.22	20.21	20.20	
3	64QAM	8	7	20.19	20.17	20.16	
3	64QAM	15	0	20.16	20.17	20.15	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	18800	1906.3	
1.4	QPSK	1	0	22.99	22.99	22.92	24
1.4	QPSK	1	3	23.02	23.03	23.00	
1.4	QPSK	1	5	22.89	22.85	22.82	
1.4	QPSK	3	0	22.97	22.99	22.96	
1.4	QPSK	3	1	23.04	23.01	22.97	23
1.4	QPSK	3	3	22.95	22.95	22.92	
1.4	QPSK	6	0	22.07	22.07	22.04	
1.4	16QAM	1	0	22.32	22.31	22.28	
1.4	16QAM	1	3	22.37	22.33	22.34	23
1.4	16QAM	1	5	22.26	22.23	22.25	
1.4	16QAM	3	0	22.08	22.08	22.06	
1.4	16QAM	3	1	22.12	22.11	22.11	
1.4	16QAM	3	3	22.03	22.02	22.02	22
1.4	16QAM	6	0	21.15	21.16	21.13	
1.4	64QAM	1	0	21.24	21.20	21.24	
1.4	64QAM	1	3	21.23	21.24	21.22	
1.4	64QAM	1	5	21.16	21.13	21.15	22
1.4	64QAM	3	0	21.21	21.18	21.17	
1.4	64QAM	3	1	21.23	21.25	21.22	
1.4	64QAM	3	3	21.17	21.16	21.15	
1.4	64QAM	6	0	20.10	20.08	20.06	21

Band 5_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				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	24.06	24.06	24.09	25
10	QPSK	1	25	24.05	24.03	24.04	
10	QPSK	1	49	24.10	24.13	24.04	
10	QPSK	25	0	23.14	23.15	23.14	
10	QPSK	25	12	23.22	23.23	23.20	
10	QPSK	25	25	23.21	23.20	23.19	24
10	QPSK	50	0	23.15	23.16	23.07	
10	16QAM	1	0	23.45	23.47	23.46	
10	16QAM	1	25	23.41	23.41	23.46	
10	16QAM	1	49	23.43	23.45	23.42	
10	16QAM	25	0	22.17	22.14	22.14	23
10	16QAM	25	12	22.27	22.25	22.17	
10	16QAM	25	25	22.19	22.21	22.18	
10	16QAM	50	0	22.15	22.17	22.06	
10	64QAM	1	0	22.27	22.31	22.28	
10	64QAM	1	25	22.36	22.37	22.38	23
10	64QAM	1	49	22.35	22.36	22.34	
10	64QAM	25	0	21.17	21.17	21.20	
10	64QAM	25	12	21.29	21.28	21.21	
10	64QAM	25	25	21.25	21.24	21.23	
10	64QAM	50	0	21.19	21.20	21.10	22
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	Tune-up limit (dBm)
5	QPSK	1	0	23.92	23.98	23.95	25
5	QPSK	1	12	24.07	24.12	24.10	
5	QPSK	1	24	24.04	24.05	24.03	
5	QPSK	12	0	23.10	23.12	23.11	
5	QPSK	12	7	23.21	23.22	23.24	
5	QPSK	12	13	23.19	23.20	23.16	24
5	QPSK	25	0	23.19	23.16	23.17	
5	16QAM	1	0	23.26	23.32	23.32	
5	16QAM	1	12	23.33	23.39	23.39	
5	16QAM	1	24	23.39	23.43	23.31	
5	16QAM	12	0	22.12	22.17	22.13	23
5	16QAM	12	7	22.23	22.23	22.22	
5	16QAM	12	13	22.18	22.22	22.18	
5	16QAM	25	0	22.16	22.22	22.19	
5	64QAM	1	0	22.19	22.20	22.19	
5	64QAM	1	12	22.28	22.30	22.31	23
5	64QAM	1	24	22.26	22.29	22.23	
5	64QAM	12	0	21.20	21.20	21.20	
5	64QAM	12	7	21.29	21.31	21.26	
5	64QAM	12	13	21.25	21.27	21.22	
5	64QAM	25	0	21.22	21.20	21.20	22
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	23.97	24.02	23.99	25
3	QPSK	1	8	24.11	24.12	24.10	
3	QPSK	1	14	24.08	24.07	24.04	
3	QPSK	8	0	23.12	23.12	23.08	
3	QPSK	8	4	23.22	23.20	23.19	
3	QPSK	8	7	23.18	23.19	23.15	24
3	QPSK	15	0	23.17	23.18	23.10	
3	16QAM	1	0	23.27	23.34	23.35	
3	16QAM	1	8	23.39	23.50	23.46	
3	16QAM	1	14	23.40	23.44	23.35	
3	16QAM	8	0	22.17	22.20	22.15	23
3	16QAM	8	4	22.27	22.30	22.27	
3	16QAM	8	7	22.23	22.25	22.23	
3	16QAM	15	0	22.25	22.22	22.14	
3	64QAM	1	0	22.20	22.22	22.23	
3	64QAM	1	8	22.41	22.39	22.34	23
3	64QAM	1	14	22.30	22.32	22.24	
3	64QAM	8	0	21.18	21.21	21.17	
3	64QAM	8	4	21.28	21.28	21.26	
3	64QAM	8	7	21.25	21.26	21.22	
3	64QAM	15	0	21.22	21.23	21.14	22
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	Tune-up limit (dBm)
1.4	QPSK	1	0	23.92	24.03	23.98	25
1.4	QPSK	1	3	24.04	24.08	24.01	
1.4	QPSK	1	5	23.99	23.99	23.94	
1.4	QPSK	3	0	24.01	24.03	24.00	
1.4	QPSK	3	1	24.03	24.08	24.02	
1.4	QPSK	3	3	24.02	24.03	23.99	24
1.4	QPSK	6	0	23.13	23.14	23.10	
1.4	16QAM	1	0	23.23	23.30	23.28	
1.4	16QAM	1	3	23.39	23.43	23.36	
1.4	16QAM	1	5	23.33	23.37	23.30	
1.4	16QAM	3	0	23.08	23.12	23.07	24
1.4	16QAM	3	1	23.12	23.18	23.12	
1.4	16QAM	3	3	23.06	23.13	23.06	
1.4	16QAM	6	0	22.25	22.21	22.18	
1.4	64QAM	1	0	22.18	22.29	22.20	
1.4	64QAM	1	3	22.29	22.31	22.28	23
1.4	64QAM	1	5	22.23	22.26	22.20	
1.4	64QAM	3	0	22.22	22.24	22.20	
1.4	64QAM	3	1	22.27	22.31	22.25	
1.4	64QAM	3	3	22.22	22.25	22.17	
1.4	64QAM	6	0	21.14	21.13	21.10	22

Band 7_Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.52	23.51	23.56	24.5
20	QPSK	1	49	23.56	23.35	23.62	
20	QPSK	1	99	23.67	23.67	23.71	
20	QPSK	50	0	22.60	22.84	22.67	23.5
20	QPSK	50	24	22.71	22.83	22.70	
20	QPSK	50	50	22.71	22.75	22.79	
20	QPSK	100	0	22.61	22.62	22.62	23.5
20	16QAM	1	0	22.88	22.85	22.89	
20	16QAM	1	49	22.95	22.93	22.90	
20	16QAM	1	99	22.96	23.02	23.08	22.5
20	16QAM	50	0	21.61	21.64	21.65	
20	16QAM	50	24	21.71	21.65	21.68	
20	16QAM	50	50	21.71	21.77	21.81	22.5
20	16QAM	100	0	21.64	21.58	21.62	
20	64QAM	1	0	21.70	21.70	21.76	
20	64QAM	1	49	21.73	21.74	21.82	22.5
20	64QAM	1	99	21.90	21.89	21.92	
20	64QAM	50	0	20.62	20.64	20.67	
20	64QAM	50	24	20.74	20.70	20.72	21.5
20	64QAM	50	50	20.77	20.77	20.81	
20	64QAM	100	0	20.66	20.63	20.66	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.55	23.56	23.61	24.5
15	QPSK	1	37	23.56	23.59	23.64	
15	QPSK	1	74	23.68	23.70	23.70	
15	QPSK	36	0	22.62	22.85	22.67	23.5
15	QPSK	36	20	22.73	22.69	22.79	
15	QPSK	36	39	22.74	22.77	22.80	
15	QPSK	75	0	22.67	22.64	22.65	23.5
15	16QAM	1	0	22.86	22.91	22.93	
15	16QAM	1	37	22.94	22.95	22.99	
15	16QAM	1	74	22.99	23.02	23.04	22.5
15	16QAM	36	0	21.64	21.63	21.68	
15	16QAM	36	20	21.74	21.65	21.81	
15	16QAM	36	39	21.72	21.76	21.78	22.5
15	16QAM	75	0	21.69	21.63	21.68	
15	64QAM	1	0	21.75	21.75	21.81	
15	64QAM	1	37	21.82	21.81	21.88	22.5
15	64QAM	1	74	21.85	21.90	21.94	
15	64QAM	36	0	20.65	20.68	20.73	
15	64QAM	36	20	20.76	20.71	20.82	21.5
15	64QAM	36	39	20.77	20.81	20.85	
15	64QAM	75	0	20.68	20.61	20.70	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.35	23.40	23.39	24.5
10	QPSK	1	25	23.36	23.44	23.40	
10	QPSK	1	49	23.43	23.48	23.48	
10	QPSK	25	0	22.38	22.44	22.45	23.5
10	QPSK	25	12	22.49	22.49	22.57	
10	QPSK	25	25	22.48	22.55	22.55	
10	QPSK	50	0	22.43	22.42	22.50	23.5
10	16QAM	1	0	22.72	22.75	22.77	
10	16QAM	1	25	22.74	22.83	22.79	
10	16QAM	1	49	22.81	22.85	22.88	22.5
10	16QAM	25	0	21.38	21.41	21.47	
10	16QAM	25	12	21.51	21.48	21.56	
10	16QAM	25	25	21.47	21.54	21.54	22.5
10	16QAM	50	0	21.44	21.39	21.50	
10	64QAM	1	0	21.55	21.58	21.64	
10	64QAM	1	25	21.68	21.71	21.73	22.5
10	64QAM	1	49	21.71	21.77	21.77	
10	64QAM	25	0	20.42	20.46	20.47	
10	64QAM	25	12	20.54	20.53	20.60	21.5
10	64QAM	25	25	20.52	20.57	20.59	
10	64QAM	50	0	20.45	20.42	20.50	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	23.32	23.38	23.43	24.5
5	QPSK	1	12	23.43	23.48	23.50	
5	QPSK	1	24	23.44	23.52	23.50	
5	QPSK	12	0	22.47	22.46	22.50	23.5
5	QPSK	12	7	22.52	22.48	22.59	
5	QPSK	12	13	22.46	22.53	22.53	
5	QPSK	25	0	22.46	22.49	22.50	23.5
5	16QAM	1	0	22.64	22.70	22.81	
5	16QAM	1	12	22.72	22.78	22.80	
5	16QAM	1	24	22.76	22.82	22.80	22.5
5	16QAM	12	0	21.47	21.44	21.51	
5	16QAM	12	7	21.51	21.53	21.59	
5	16QAM	12	13	21.50	21.55	21.51	22.5
5	16QAM	25	0	21.47	21.43	21.53	
5	64QAM	1	0	21.57	21.65	21.70	
5	64QAM	1	12	21.60	21.68	21.70	22.5
5	64QAM	1	24	21.66	21.72	21.75	
5	64QAM	12	0	20.54	20.52	20.60	
5	64QAM	12	7	20.59	20.55	20.63	21.5
5	64QAM	12	13	20.55	20.55	20.60	
5	64QAM	25	0	20.48	20.48	20.54	



Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 23060	Power Middle Ch. / Freq. 23095	Power High Ch. / Freq. 23130	Tune-up limit (dBm)		
Channel				704	707.5	711			
Frequency (MHz)									
10	QPSK	1	0	22.98	23.05	23.04	24		
10	QPSK	1	25	23.05	23.05	23.03			
10	QPSK	1	49	23.18	23.20	23.15			
10	QPSK	25	0	22.05	22.06	22.06	23		
10	QPSK	25	12	22.22	22.23	22.16			
10	QPSK	25	25	22.22	22.20	22.22			
10	QPSK	50	0	22.17	22.18	22.10	22		
10	16QAM	1	0	22.38	22.42	22.44			
10	16QAM	1	25	22.41	22.41	22.46			
10	16QAM	1	49	22.50	22.49	22.48	21		
10	16QAM	25	0	21.08	21.08	21.07			
10	16QAM	25	12	21.25	21.23	21.19			
10	16QAM	25	25	21.18	21.22	21.23	20		
10	16QAM	50	0	21.18	21.18	21.10			
10	64QAM	1	0	21.25	21.25	21.29			
10	64QAM	1	25	21.35	21.38	21.37	22		
10	64QAM	1	49	21.40	21.41	21.40			
10	64QAM	25	0	20.08	20.09	20.11			
10	64QAM	25	12	20.27	20.28	20.24	21		
10	64QAM	25	25	20.22	20.23	20.22			
10	64QAM	50	0	20.21	20.21	20.14			
Channel				23035	23095	23155	Tune-up limit (dBm)		
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	22.98	22.99	23.03	24		
5	QPSK	1	12	23.11	23.13	23.11			
5	QPSK	1	24	23.08	23.11	23.11			
5	QPSK	12	0	22.12	22.14	22.13	23		
5	QPSK	12	7	22.22	22.24	22.23			
5	QPSK	12	13	22.19	22.20	22.20			
5	QPSK	25	0	22.19	22.20	22.20	23		
5	16QAM	1	0	22.35	22.31	22.39			
5	16QAM	1	12	22.40	22.35	22.41			
5	16QAM	1	24	22.41	22.46	22.44	22		
5	16QAM	12	0	21.15	21.16	21.17			
5	16QAM	12	7	21.22	21.24	21.23			
5	16QAM	12	13	21.20	21.22	21.22	21		
5	16QAM	25	0	21.21	21.23	21.21			
5	64QAM	1	0	21.25	21.28	21.31			
5	64QAM	1	12	21.28	21.34	21.32	22		
5	64QAM	1	24	21.34	21.38	21.34			
5	64QAM	12	0	20.21	20.21	20.23			
5	64QAM	12	7	20.29	20.31	20.30	21		
5	64QAM	12	13	20.26	20.27	20.26			
5	64QAM	25	0	20.23	20.24	20.23			
Channel				23025	23095	23165	Tune-up limit (dBm)		
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	23.02	23.08	23.04	24		
3	QPSK	1	8	23.15	23.19	23.14			
3	QPSK	1	14	23.10	23.10	23.10			
3	QPSK	8	0	22.13	22.16	22.12	23		
3	QPSK	8	4	22.21	22.24	22.15			
3	QPSK	8	7	22.18	22.23	22.16			
3	QPSK	15	0	22.19	22.19	22.13	23		
3	16QAM	1	0	22.38	22.35	22.36			
3	16QAM	1	8	22.40	22.40	22.46			
3	16QAM	1	14	22.43	22.44	22.42	22		
3	16QAM	8	0	21.19	21.21	21.19			
3	16QAM	8	4	21.29	21.29	21.22			
3	16QAM	8	7	21.25	21.27	21.25	21		
3	16QAM	15	0	21.21	21.24	21.15			
3	64QAM	1	0	21.28	21.27	21.32			
3	64QAM	1	8	21.39	21.39	21.37	22		
3	64QAM	1	14	21.34	21.37	21.35			
3	64QAM	8	0	20.20	20.21	20.23			
3	64QAM	8	4	20.28	20.29	20.20	21		
3	64QAM	8	7	20.25	20.25	20.24			
3	64QAM	15	0	20.23	20.23	20.16			
Channel				23017	23095	23173	Tune-up limit (dBm)		
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	23.01	22.98	22.95	24		
1.4	QPSK	1	3	23.05	23.09	23.07			
1.4	QPSK	1	5	22.99	23.02	22.96			
1.4	QPSK	3	0	23.01	23.04	22.97	23		
1.4	QPSK	3	1	23.05	23.08	23.05			
1.4	QPSK	3	3	23.01	23.03	22.99			
1.4	QPSK	6	0	22.10	22.10	22.08	23		
1.4	16QAM	1	0	22.31	22.29	22.25			
1.4	16QAM	1	3	22.41	22.40	22.37			
1.4	16QAM	1	5	22.30	22.33	22.33	23		
1.4	16QAM	3	0	22.11	22.09	22.05			
1.4	16QAM	3	1	22.16	22.14	22.15			
1.4	16QAM	3	3	22.10	22.09	22.11	22		
1.4	16QAM	6	0	21.19	21.20	21.17			
1.4	64QAM	1	0	21.24	21.20	21.17			
1.4	64QAM	1	3	21.29	21.34	21.27	22		
1.4	64QAM	1	5	21.21	21.24	21.25			
1.4	64QAM	3	0	21.22	21.22	21.16			
1.4	64QAM	3	1	21.28	21.30	21.28	21		
1.4	64QAM	3	3	21.21	21.24	21.22			
1.4	64QAM	6	0	20.10	20.15	20.11			



Band 13_Ant 1							
BW (MHz)	Modulo n	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	QPSK	1	0		23.15		23
10	QPSK	1	25		23.09		
10	QPSK	1	49		23.08		
10	QPSK	25	0		22.13		
10	QPSK	25	12		22.15		23
10	QPSK	25	25		22.21		
10	QPSK	50	0		22.10		
10	16QAM	1	0		22.51		
10	16QAM	1	25		22.44		23
10	16QAM	1	49		22.46		
10	16QAM	25	0		21.15		
10	16QAM	25	12		21.18		
10	16QAM	25	25		21.19		22
10	16QAM	50	0		21.07		
10	64QAM	1	0		21.36		
10	64QAM	1	25		21.39		
10	64QAM	1	49		21.35		22
10	64QAM	25	0		20.18		
10	64QAM	25	12		20.21		
10	64QAM	25	25		20.23		
10	64QAM	50	0		20.10		21
Channel				23205	23230	23255	
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.04	23.07	23.08	24
5	QPSK	1	12	23.09	23.12	23.14	
5	QPSK	1	24	23.14	23.13	23.12	
5	QPSK	12	0	22.11	22.12	22.12	
5	QPSK	12	7	22.22	22.17	22.22	23
5	QPSK	12	13	22.22	22.21	22.20	
5	QPSK	25	0	22.18	22.13	22.19	
5	16QAM	1	0	22.36	22.34	22.42	
5	16QAM	1	12	22.36	22.37	22.41	23
5	16QAM	1	24	22.48	22.44	22.47	
5	16QAM	12	0	21.18	21.13	21.13	
5	16QAM	12	7	21.24	21.18	21.22	
5	16QAM	12	13	21.22	21.21	21.21	22
5	16QAM	25	0	21.21	21.14	21.20	
5	64QAM	1	0	21.33	21.28	21.29	
5	64QAM	1	12	21.32	21.29	21.28	
5	64QAM	1	24	21.34	21.32	21.35	22
5	64QAM	12	0	20.22	20.18	20.18	
5	64QAM	12	7	20.30	20.24	20.29	
5	64QAM	12	13	20.26	20.26	20.28	
5	64QAM	25	0	20.22	20.16	20.24	21



Band 17_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				23740	23790	23800	
Frequency (MHz)				708	710	711	
10	QPSK	1	0	22.94	22.90	22.94	24
10	QPSK	1	25	22.96	23.00	23.02	
10	QPSK	1	49	23.07	23.04	23.05	
10	QPSK	25	0	22.04	22.04	22.08	
10	QPSK	25	12	22.09	22.09	22.11	23
10	QPSK	25	25	22.16	22.16	22.20	
10	QPSK	50	0	22.08	22.08	22.09	
10	16QAM	1	0	22.26	22.28	22.29	
10	16QAM	1	25	22.37	22.33	22.37	23
10	16QAM	1	49	22.43	22.41	22.40	
10	16QAM	25	0	21.04	21.06	21.07	
10	16QAM	25	12	21.08	21.10	21.10	
10	16QAM	25	25	21.18	21.14	21.18	22
10	16QAM	50	0	21.06	21.06	21.08	
10	64QAM	1	0	21.11	21.09	21.20	
10	64QAM	1	25	21.26	21.29	21.29	
10	64QAM	1	49	21.33	21.31	21.31	22
10	64QAM	25	0	20.08	20.07	20.10	
10	64QAM	25	12	20.13	20.14	20.14	
10	64QAM	25	25	20.21	20.21	20.20	
10	64QAM	50	0	20.11	20.10	20.11	21
Channel				23755	23790	23805	
Frequency (MHz)				708.5	710	713.5	
5	QPSK	1	0	22.88	22.92	22.95	24
5	QPSK	1	12	23.03	23.05	23.06	
5	QPSK	1	24	23.09	23.04	23.01	
5	QPSK	12	0	22.04	22.05	22.07	
5	QPSK	12	7	22.15	22.15	22.17	23
5	QPSK	12	13	22.14	22.15	22.15	
5	QPSK	25	0	22.11	22.14	22.09	
5	16QAM	1	0	22.24	22.25	22.30	
5	16QAM	1	12	22.26	22.28	22.35	23
5	16QAM	1	24	22.38	22.36	22.39	
5	16QAM	12	0	21.08	21.08	21.08	
5	16QAM	12	7	21.15	21.17	21.19	
5	16QAM	12	13	21.15	21.14	21.15	22
5	16QAM	25	0	21.14	21.16	21.08	
5	64QAM	1	0	21.13	21.17	21.18	
5	64QAM	1	12	21.20	21.21	21.25	
5	64QAM	1	24	21.32	21.28	21.27	22
5	64QAM	12	0	20.10	20.13	20.15	
5	64QAM	12	7	20.24	20.24	20.26	
5	64QAM	12	13	20.20	20.22	20.21	
5	64QAM	25	0	20.15	20.17	20.12	21

Band 25_Ant 3						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 26140	Power Middle Ch. / Freq. 26340	Power High Ch. / Freq. 26590
Channel				1680	1880	1905
Frequency (MHz)				23.31	23.26	23.27
20	QPSK	1	0	23.31	23.26	23.27
20	QPSK	1	49	23.19	23.20	23.26
20	QPSK	1	99	23.18	23.28	23.23
20	QPSK	50	0	22.34	22.28	22.30
20	QPSK	50	24	22.35	22.35	22.32
20	QPSK	50	50	22.28	22.33	22.31
20	QPSK	100	0	22.23	22.25	22.33
20	16QAM	1	0	22.62	22.59	22.65
20	16QAM	1	49	22.55	22.58	22.58
20	16QAM	1	99	22.56	22.64	22.57
20	16QAM	50	0	21.34	21.28	21.32
20	16QAM	50	24	21.33	21.38	21.31
20	16QAM	50	50	21.29	21.35	21.35
20	16QAM	100	0	21.24	21.27	21.31
20	64QAM	1	0	21.53	21.48	21.52
20	64QAM	1	49	21.42	21.48	21.48
20	64QAM	1	99	21.45	21.47	21.49
20	64QAM	50	0	20.37	20.30	20.35
20	64QAM	50	24	20.38	20.39	20.34
20	64QAM	50	50	20.31	20.35	20.37
20	64QAM	100	0	20.28	20.29	20.33
Channel				26115	26340	26615
Frequency (MHz)				1857.5	1880	1907.5
15	QPSK	1	0	23.08	23.27	23.30
15	QPSK	1	37	23.23	23.22	23.23
15	QPSK	1	74	23.13	23.27	23.26
15	QPSK	36	0	22.27	22.20	22.24
15	QPSK	36	20	22.34	22.37	22.41
15	QPSK	36	39	22.30	22.33	22.33
15	QPSK	75	0	22.28	22.31	22.34
15	16QAM	1	0	22.39	22.57	22.62
15	16QAM	1	37	22.58	22.60	22.61
15	16QAM	1	74	22.44	22.58	22.61
15	16QAM	36	0	21.28	21.20	21.23
15	16QAM	36	20	21.34	21.39	21.39
15	16QAM	36	39	21.30	21.34	21.36
15	16QAM	75	0	21.30	21.33	21.33
15	64QAM	1	0	21.32	21.48	21.51
15	64QAM	1	37	21.48	21.47	21.52
15	64QAM	1	74	21.36	21.51	21.51
15	64QAM	36	0	20.32	20.26	20.29
15	64QAM	36	20	20.38	20.40	20.41
15	64QAM	36	39	20.35	20.38	20.41
15	64QAM	75	0	20.30	20.32	20.37
Channel				26090	26340	26640
Frequency (MHz)				1855	1880	1910
10	QPSK	1	0	22.76	22.70	23.03
10	QPSK	1	25	22.85	22.95	22.95
10	QPSK	1	49	22.70	22.74	23.02
10	QPSK	25	0	22.02	21.95	21.98
10	QPSK	25	12	22.11	22.12	22.13
10	QPSK	25	25	22.03	22.05	22.07
10	QPSK	50	0	22.04	22.06	22.08
10	16QAM	1	0	22.10	22.09	22.39
10	16QAM	1	25	22.23	22.30	22.37
10	16QAM	1	49	22.09	22.14	22.39
10	16QAM	25	0	21.02	20.92	20.96
10	16QAM	25	12	21.10	21.13	21.15
10	16QAM	25	25	21.05	21.05	21.06
10	16QAM	50	0	21.03	21.08	21.08
10	64QAM	1	0	21.05	20.93	21.23
10	64QAM	1	25	21.28	21.25	21.27
10	64QAM	1	49	21.00	21.05	21.19
10	64QAM	25	0	20.08	19.97	20.00
10	64QAM	25	12	20.16	20.17	20.22
10	64QAM	25	25	20.07	20.08	20.11
10	64QAM	50	0	20.06	20.08	20.11
Channel				26065	26340	26665
Frequency (MHz)				1852.5	1880	1912.5
5	QPSK	1	0	22.88	22.89	22.93
5	QPSK	1	12	23.03	23.01	23.04
5	QPSK	1	24	23.02	23.07	23.02
5	QPSK	12	0	22.09	22.04	22.03
5	QPSK	12	7	22.11	22.11	22.15
5	QPSK	12	13	22.10	22.14	22.12
5	QPSK	25	0	22.08	22.09	22.09
5	16QAM	1	0	22.29	22.23	22.27
5	16QAM	1	12	22.29	22.31	22.34
5	16QAM	1	24	22.32	22.38	22.35
5	16QAM	12	0	21.10	21.03	21.04
5	16QAM	12	7	21.15	21.14	21.13
5	16QAM	12	13	21.13	21.12	21.16
5	16QAM	25	0	21.13	21.10	21.11
5	64QAM	1	0	21.28	21.13	21.17
5	64QAM	1	12	21.28	21.21	21.23
5	64QAM	1	24	21.24	21.27	21.28
5	64QAM	12	0	20.13	20.07	20.08
5	64QAM	12	7	20.20	20.20	20.19
5	64QAM	12	13	20.19	20.17	20.19
5	64QAM	25	0	20.11	20.11	20.12
Channel				26055	26340	26675
Frequency (MHz)				1851.5	1880	1913.5
3	QPSK	1	0	23.03	22.95	22.97
3	QPSK	1	8	23.11	23.14	23.10
3	QPSK	1	14	23.07	23.12	23.12
3	QPSK	8	0	22.14	22.05	22.08
3	QPSK	8	4	22.16	22.18	22.11
3	QPSK	8	7	22.14	22.16	22.16
3	QPSK	15	0	22.13	22.12	22.10
3	16QAM	1	0	22.35	22.28	22.32
3	16QAM	1	8	22.43	22.45	22.46
3	16QAM	1	14	22.41	22.42	22.45
3	16QAM	8	0	21.18	21.12	21.14
3	16QAM	8	4	21.21	21.19	21.18
3	16QAM	8	7	21.19	21.23	21.22
3	16QAM	15	0	21.17	21.17	21.13
3	64QAM	1	0	21.31	21.24	21.22
3	64QAM	1	8	21.37	21.35	21.39
3	64QAM	1	14	21.35	21.36	21.33
3	64QAM	8	0	20.22	20.14	20.13
3	64QAM	8	4	20.22	20.21	20.17
3	64QAM	8	7	20.24	20.21	20.22
3	64QAM	15	0	20.18	20.19	20.15
Channel				26047	26340	26683
Frequency (MHz)				1850.7	1880	1914.3
1.4	QPSK	1	0	22.99	22.94	22.91
1.4	QPSK	1	3	23.06	23.02	23.04
1.4	QPSK	1	5	22.97	22.95	22.96
1.4	QPSK	3	0	23.02	22.95	22.92
1.4	QPSK	3	1	23.05	23.05	22.98
1.4	QPSK	3	3	23.00	23.00	23.00
1.4	QPSK	6	0	22.08	22.06	22.02
1.4	16QAM	1	0	22.32	22.27	22.25
1.4	16QAM	1	3	22.38	22.34	22.36
1.4	16QAM	1	5	22.32	22.31	22.32
1.4	16QAM	3	0	22.07	22.07	22.03
1.4	16QAM	3	1	22.14	22.13	22.07
1.4	16QAM	3	3	22.07	22.08	22.08
1.4	16QAM	6	0	21.16	21.16	21.10
1.4	64QAM	1	0	21.20	21.21	21.16
1.4	64QAM	1	3	21.29	21.30	21.28
1.4	64QAM	1	5	21.23	21.22	21.21
1.4	64QAM	3	0	21.21	21.20	21.15
1.4	64QAM	3	1	21.27	21.25	21.20
1.4	64QAM	3	3	21.24	21.21	21.22
1.4	64QAM	6	0	20.10	20.07	20.03



Band 5_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 20450	Power Middle Ch. / Freq. 20525	Power High Ch. / Freq. 20600	Tune-up limit (dBm)		
Channel				829	836.5	844			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	23.55	23.54	23.57	24.5		
10	QPSK	1	25	23.52	23.52	23.55			
10	QPSK	1	49	23.53	23.53	23.47			
10	QPSK	25	0	23.11	23.11	23.12			
10	QPSK	25	12	23.17	23.17	23.15	23.5		
10	QPSK	25	25	23.14	23.14	23.14			
10	QPSK	50	0	23.10	23.11	23.04			
10	16QAM	1	0	23.39	23.42	23.42			
10	16QAM	1	25	23.32	23.37	23.43	23.5		
10	16QAM	1	49	23.37	23.40	23.35			
10	16QAM	25	0	22.12	22.13	22.14			
10	16QAM	25	12	22.19	22.19	22.14			
10	16QAM	25	25	22.18	22.16	22.16	23		
10	16QAM	50	0	22.10	22.11	22.03			
10	64QAM	1	0	22.24	22.24	22.31			
10	64QAM	1	25	22.31	22.31	22.34			
10	64QAM	1	49	22.26	22.27	22.27	23		
10	64QAM	25	0	21.13	21.14	21.16			
10	64QAM	25	12	21.24	21.24	21.19			
10	64QAM	25	25	21.16	21.19	21.18			
10	64QAM	50	0	21.13	21.13	21.08	22		
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	23.45	23.46	23.47	24.5		
5	QPSK	1	12	23.55	23.56	23.56			
5	QPSK	1	24	23.54	23.53	23.46			
5	QPSK	12	0	23.08	23.09	23.08			
5	QPSK	12	7	23.18	23.19	23.20	23.5		
5	QPSK	12	13	23.17	23.18	23.14			
5	QPSK	25	0	23.16	23.15	23.14			
5	16QAM	1	0	23.23	23.28	23.32			
5	16QAM	1	12	23.32	23.40	23.36	23.5		
5	16QAM	1	24	23.35	23.36	23.31			
5	16QAM	12	0	22.11	22.12	22.12			
5	16QAM	12	7	22.20	22.20	22.21			
5	16QAM	12	13	22.17	22.18	22.16	23		
5	16QAM	25	0	22.16	22.18	22.15			
5	64QAM	1	0	22.22	22.19	22.20			
5	64QAM	1	12	22.24	22.31	22.27			
5	64QAM	1	24	22.25	22.27	22.20	23		
5	64QAM	12	0	21.16	21.17	21.18			
5	64QAM	12	7	21.26	21.29	21.26			
5	64QAM	12	13	21.24	21.24	21.21			
5	64QAM	25	0	21.17	21.19	21.17	22		
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	23.45	23.50	23.49	24.5		
3	QPSK	1	8	23.55	23.56	23.53			
3	QPSK	1	14	23.56	23.56	23.50			
3	QPSK	8	0	23.09	23.09	23.09			
3	QPSK	8	4	23.22	23.18	23.17	23.5		
3	QPSK	8	7	23.19	23.16	23.13			
3	QPSK	15	0	23.17	23.16	23.10			
3	16QAM	1	0	23.30	23.30	23.30			
3	16QAM	1	8	23.41	23.45	23.45	23.5		
3	16QAM	1	14	23.36	23.37	23.35			
3	16QAM	8	0	22.15	22.16	22.14			
3	16QAM	8	4	22.24	22.25	22.25			
3	16QAM	8	7	22.22	22.23	22.21	23		
3	16QAM	15	0	22.20	22.20	22.12			
3	64QAM	1	0	22.17	22.20	22.21			
3	64QAM	1	8	22.33	22.37	22.33			
3	64QAM	1	14	22.27	22.31	22.25	23		
3	64QAM	8	0	21.17	21.19	21.18			
3	64QAM	8	4	21.26	21.28	21.24			
3	64QAM	8	7	21.23	21.24	21.22			
3	64QAM	15	0	21.20	21.20	21.15	22		
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	23.42	23.45	23.49	24.5		
1.4	QPSK	1	3	23.55	23.56	23.51			
1.4	QPSK	1	5	23.51	23.46	23.43			
1.4	QPSK	3	0	23.46	23.48	23.49			
1.4	QPSK	3	1	23.52	23.54	23.52	23.5		
1.4	QPSK	3	3	23.49	23.51	23.47			
1.4	QPSK	6	0	23.10	23.11	23.07			
1.4	16QAM	1	0	23.21	23.28	23.27			
1.4	16QAM	1	3	23.37	23.38	23.36	23.5		
1.4	16QAM	1	5	23.27	23.29	23.23			
1.4	16QAM	3	0	23.04	23.09	23.06			
1.4	16QAM	3	1	23.12	23.13	23.09			
1.4	16QAM	3	3	23.04	23.10	23.05	23		
1.4	16QAM	6	0	22.20	22.17	22.15			
1.4	64QAM	1	0	22.17	22.22	22.23			
1.4	64QAM	1	3	22.26	22.28	22.24			
1.4	64QAM	1	5	22.20	22.19	22.15	23		
1.4	64QAM	3	0	22.20	22.19	22.19			
1.4	64QAM	3	1	22.25	22.26	22.22			
1.4	64QAM	3	3	22.21	22.21	22.17			
1.4	64QAM	6	0	21.11	21.12	21.08	22		

Band 7_Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	20.34	20.28	20.33	21
20	QPSK	1	49	20.37	20.36	20.41	
20	QPSK	1	99	20.40	20.41	20.45	
20	QPSK	50	0	20.41	20.45	20.48	21
20	QPSK	50	24	20.52	20.47	20.49	
20	QPSK	50	50	20.49	20.52	20.56	
20	QPSK	100	0	20.41	20.36	20.39	21
20	16QAM	1	0	20.68	20.65	20.69	
20	16QAM	1	49	20.67	20.69	20.74	
20	16QAM	1	99	20.75	20.75	20.78	21
20	16QAM	50	0	20.41	20.42	20.48	
20	16QAM	50	24	20.52	20.43	20.49	
20	16QAM	50	50	20.52	20.54	20.57	21
20	16QAM	100	0	20.43	20.34	20.42	
20	64QAM	1	0	20.49	20.51	20.56	
20	64QAM	1	49	20.58	20.57	20.63	21
20	64QAM	1	99	20.64	20.67	20.71	
20	64QAM	50	0	20.44	20.45	20.48	
20	64QAM	50	24	20.55	20.50	20.53	21
20	64QAM	50	50	20.52	20.56	20.59	
20	64QAM	100	0	20.45	20.39	20.44	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	20.32	20.31	20.38	21
15	QPSK	1	37	20.36	20.33	20.41	
15	QPSK	1	74	20.40	20.38	20.46	
15	QPSK	36	0	20.41	20.38	20.44	21
15	QPSK	36	20	20.50	20.43	20.54	
15	QPSK	36	39	20.50	20.52	20.55	
15	QPSK	75	0	20.44	20.36	20.43	21
15	16QAM	1	0	20.67	20.62	20.71	
15	16QAM	1	37	20.69	20.71	20.74	
15	16QAM	1	74	20.69	20.71	20.76	21
15	16QAM	36	0	20.41	20.41	20.46	
15	16QAM	36	20	20.50	20.42	20.55	
15	16QAM	36	39	20.51	20.51	20.54	21
15	16QAM	75	0	20.44	20.37	20.45	
15	64QAM	1	0	20.53	20.51	20.58	
15	64QAM	1	37	20.58	20.66	20.65	21
15	64QAM	1	74	20.66	20.68	20.67	
15	64QAM	36	0	20.44	20.46	20.51	
15	64QAM	36	20	20.55	20.48	20.60	21
15	64QAM	36	39	20.55	20.56	20.61	
15	64QAM	75	0	20.47	20.41	20.48	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	20.14	20.12	20.15	21
10	QPSK	1	25	20.14	20.15	20.19	
10	QPSK	1	49	20.16	20.21	20.21	
10	QPSK	25	0	20.15	20.18	20.18	21
10	QPSK	25	12	20.28	20.20	20.32	
10	QPSK	25	25	20.25	20.29	20.32	
10	QPSK	50	0	20.21	20.16	20.25	21
10	16QAM	1	0	20.48	20.54	20.53	
10	16QAM	1	25	20.52	20.57	20.58	
10	16QAM	1	49	20.55	20.60	20.63	21
10	16QAM	25	0	20.17	20.19	20.23	
10	16QAM	25	12	20.28	20.25	20.33	
10	16QAM	25	25	20.24	20.32	20.31	21
10	16QAM	50	0	20.21	20.17	20.23	
10	64QAM	1	0	20.35	20.39	20.38	
10	64QAM	1	25	20.45	20.48	20.53	21
10	64QAM	1	49	20.47	20.53	20.53	
10	64QAM	25	0	20.22	20.22	20.24	
10	64QAM	25	12	20.32	20.26	20.41	21
10	64QAM	25	25	20.29	20.34	20.37	
10	64QAM	50	0	20.23	20.17	20.31	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	20.10	20.13	20.22	21
5	QPSK	1	12	20.16	20.22	20.23	
5	QPSK	1	24	20.16	20.26	20.23	
5	QPSK	12	0	20.22	20.20	20.29	21
5	QPSK	12	7	20.31	20.23	20.33	
5	QPSK	12	13	20.27	20.28	20.30	
5	QPSK	25	0	20.23	20.23	20.28	21
5	16QAM	1	0	20.42	20.47	20.59	
5	16QAM	1	12	20.40	20.56	20.59	
5	16QAM	1	24	20.51	20.55	20.58	21
5	16QAM	12	0	20.23	20.28	20.32	
5	16QAM	12	7	20.29	20.29	20.35	
5	16QAM	12	13	20.26	20.28	20.32	21
5	16QAM	25	0	20.25	20.24	20.33	
5	64QAM	1	0	20.35	20.46	20.53	
5	64QAM	1	12	20.37	20.50	20.44	21
5	64QAM	1	24	20.42	20.49	20.50	
5	64QAM	12	0	20.31	20.29	20.38	
5	64QAM	12	7	20.38	20.33	20.41	21
5	64QAM	12	13	20.29	20.33	20.36	
5	64QAM	25	0	20.29	20.26	20.33	

Band 66_Ant 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 132072	Power Middle Ch. / Freq. 132322	Power High Ch. / Freq. 132572	Tune-up limit (dBm)				
Channel				Frequency (MHz)							
				1720	1745	1770					
20	QPSK	1	0	21.07	21.07	21.36	22				
20	QPSK	1	49	21.23	21.26	21.28					
20	QPSK	1	99	20.95	20.99	21.14					
20	QPSK	50	0	21.32	21.34	21.35					
20	QPSK	50	24	21.43	21.36	21.45	22				
20	QPSK	50	50	21.29	21.31	21.31					
20	QPSK	100	0	21.35	21.36	21.37					
20	16QAM	1	0	21.49	21.46	21.74					
20	16QAM	1	49	21.65	21.66	21.66	22				
20	16QAM	1	99	21.36	21.36	21.57					
20	16QAM	50	0	21.35	21.37	21.37					
20	16QAM	50	24	21.44	21.37	21.46					
20	16QAM	50	50	21.31	21.32	21.33	21				
20	16QAM	100	0	21.36	21.37	21.36					
20	64QAM	1	0	21.28	21.30	21.57					
20	64QAM	1	49	21.49	21.49	21.52					
20	64QAM	1	99	21.23	21.22	21.39	22				
20	64QAM	50	0	20.37	20.40	20.37					
20	64QAM	50	24	20.45	20.40	20.47					
20	64QAM	50	50	20.35	20.35	20.35					
20	64QAM	100	0	20.38	20.40	20.33					
Channel				132047	132322	132697	Tune-up limit (dBm)				
				Frequency (MHz)							
				1717.5	1745	1772.5					
15	QPSK	1	0	21.18	21.21	21.36	22				
15	QPSK	1	37	21.22	21.24	21.27					
15	QPSK	1	74	21.07	21.11	21.22					
15	QPSK	36	0	21.33	21.34	21.37					
15	QPSK	36	20	21.38	21.40	21.36	22				
15	QPSK	36	39	21.30	21.31	21.34					
15	QPSK	75	0	21.35	21.37	21.32					
15	16QAM	1	0	21.52	21.53	21.73					
15	16QAM	1	37	21.63	21.60	21.67	22				
15	16QAM	1	74	21.45	21.45	21.59					
15	16QAM	36	0	21.35	21.36	21.40					
15	16QAM	36	20	21.41	21.42	21.37					
15	16QAM	36	39	21.32	21.35	21.34	22				
15	16QAM	75	0	21.39	21.41	21.36					
15	64QAM	1	0	21.38	21.42	21.51					
15	64QAM	1	37	21.48	21.52	21.48					
15	64QAM	1	74	21.31	21.32	21.36	21				
15	64QAM	36	0	20.38	20.44	20.40					
15	64QAM	36	20	20.43	20.49	20.34					
15	64QAM	36	39	20.35	20.41	20.34					
15	64QAM	75	0	20.39	20.41	20.20					
Channel				132022	132322	132622	Tune-up limit (dBm)				
				Frequency (MHz)							
				1715	1745	1775					
10	QPSK	1	0	20.82	20.87	20.84	22				
10	QPSK	1	25	21.06	21.08	21.10					
10	QPSK	1	49	20.82	20.81	20.83					
10	QPSK	25	0	21.07	21.09	21.10					
10	QPSK	25	12	21.19	21.14	21.23	22				
10	QPSK	25	25	21.10	21.11	21.11					
10	QPSK	50	0	21.14	21.15	21.16					
10	16QAM	1	0	21.18	21.21	21.22					
10	16QAM	1	25	21.44	21.44	21.51	22				
10	16QAM	1	49	21.18	21.19	21.22					
10	16QAM	25	0	21.08	21.11	21.13					
10	16QAM	25	12	21.23	21.16	21.28					
10	16QAM	25	25	21.09	21.11	21.13	22				
10	16QAM	50	0	21.15	21.16	21.16					
10	64QAM	1	0	21.08	21.05	21.00					
10	64QAM	1	25	21.38	21.37	21.38					
10	64QAM	1	49	21.09	21.15	21.10	21				
10	64QAM	25	0	20.12	20.14	20.14					
10	64QAM	25	12	20.24	20.18	20.24					
10	64QAM	25	25	20.13	20.14	20.10					
10	64QAM	50	0	20.17	20.20	20.10					
Channel				131997	132322	132657	Tune-up limit (dBm)				
				Frequency (MHz)							
				1712.5	1745	1777.5					
5	QPSK	1	0	21.04	21.09	21.09	22				
5	QPSK	1	12	21.09	21.13	21.11					
5	QPSK	1	24	21.02	20.99	21.03					
5	QPSK	12	0	21.21	21.19	21.21					
5	QPSK	12	7	21.21	21.23	21.15	22				
5	QPSK	12	13	21.11	21.14	21.14					
5	QPSK	25	0	21.16	21.15	21.14					
5	16QAM	1	0	21.35	21.41	21.40					
5	16QAM	1	12	21.36	21.42	21.43	22				
5	16QAM	1	24	21.32	21.36	21.36					
5	16QAM	12	0	21.24	21.23	21.21					
5	16QAM	12	7	21.22	21.28	21.20					
5	16QAM	12	13	21.14	21.20	21.19	22				
5	16QAM	25	0	21.20	21.21	21.17					
5	64QAM	1	0	21.35	21.32	21.17					
5	64QAM	1	12	21.32	21.38	21.29					
5	64QAM	1	24	21.20	21.31	21.18	22				
5	64QAM	12	0	20.30	20.25	20.21					
5	64QAM	12	7	20.27	20.28	20.15					
5	64QAM	12	13	20.20	20.23	20.11					
5	64QAM	25	0	20.21	20.24	20.07					
Channel				131987	132322	132655	Tune-up limit (dBm)				
				Frequency (MHz)							
				1710.7	1745	1779.3					
3	QPSK	1	0	21.09	21.11	21.12	22				
3	QPSK	1	8	21.11	21.15	21.16					
3	QPSK	1	14	21.04	21.04	21.06					
3	QPSK	8	0	21.18	21.17	21.19					
3	QPSK	8	4	21.22	21.23	21.20	22				
3	QPSK	8	7	21.14	21.16	21.17					
3	QPSK	15	0	21.16	21.15	21.17					
3	16QAM	1	0	21.42	21.46	21.41					
3	16QAM	1	8	21.40	21.48	21.48	22				
3	16QAM	1	14	21.36	21.38	21.40					
3	16QAM	8	0	21.25	21.23	21.26					
3	16QAM	8	4	21.26	21.31	21.24					
3	16QAM	8	7	21.20	21.20	21.25	22				
3	16QAM	15	0	21.22	21.27	21.22					
3	64QAM	1	0	21.34	21.38	21.13					
3	64QAM	1	8	21.36	21.40	21.19					
3	64QAM	1	14	21.22	21.27	21.06	22				
3	64QAM	8	0	20.29	20.24	20.04					
3	64QAM	8	4	20.30	20.29	20.03					
3	64QAM	8	7	20.21	20.25	20.02					
3	64QAM	15	0	20.20	20.21	19.97					
Channel				131978	132322	132665	Tune-up limit (dBm)				
				Frequency (MHz)							
				1710.7	1745	1779.3					
1.4	QPSK	1	0	20.94	21.04	21.08	22				
1.4	QPSK	1	3	21.05	21.09	21.11					
1.4	QPSK	1	6	21.02	21.05	21.06					
1.4	QPSK	1	9	21.01	21.05	21.06					
1.4	QPSK	3	1	21.05	21.08	21.10	22				
1.4	QPSK	3	3	21.00	21.02	21.05					
1.4	QPSK	6	0	21.08	21.11	21.13					
1.4	16QAM	1	0	21.31	21.39	21.42					
1.4	16QAM	1	3	21.42	21.42	21.47	22				
1.4	16QAM	1	6	21.29	21.31	21.33					
1.4	16QAM	3	0	21.29	21.31	21.37					
1.4	16QAM	3	1	21.16	21.18	21.21					
1.4	16QAM	3	3	21.10	21.11	21.16	22				
1.4	16QAM	6	0	21.20	21.24	21.22					
1.4	16QAM	6	3	21.33	21.34	21.33					
1.4	16QAM	3	3	21.31	21.36	21.23					
1.4	16QAM	1	5	21.21	21.23	21.25	22				
1.4	16QAM	3	0	21.24	21.30	21.11					
1.4	16QAM	3	1	21.30	21.34	21.09					
1.4	16QAM	3	3	21.19	21.20	21.04					



Band 2_Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 18700	Power Middle Ch. Freq. 18800	Power High Ch. Freq. 19100	Tune-up limit (dBm)
Channel				1860	1880	1900	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.69	19.62	19.68	20.5
20	QPSK	1	49	19.56	19.59	19.61	
20	QPSK	1	99	19.51	19.58	19.58	20.5
20	QPSK	50	0	19.67	19.60	19.63	
20	QPSK	50	24	19.74	19.77	19.74	20.5
20	QPSK	50	50	19.68	19.72	19.75	
20	QPSK	100	0	19.68	19.71	19.66	20.5
20	16QAM	1	0	20.05	19.97	20.01	
20	16QAM	1	49	19.93	19.96	20.01	20.5
20	16QAM	1	99	19.90	19.93	19.96	
20	16QAM	50	0	19.69	19.62	19.64	20.5
20	16QAM	50	24	19.75	19.78	19.75	
20	16QAM	50	50	19.70	19.74	19.77	20.5
20	16QAM	100	0	19.69	19.71	19.67	
20	64QAM	1	0	19.95	19.84	19.92	20.5
20	64QAM	1	49	19.80	19.83	19.88	
20	64QAM	1	99	19.78	19.83	19.83	20.5
20	64QAM	50	0	19.68	19.62	19.69	
20	64QAM	50	24	19.75	19.77	19.78	20.5
20	64QAM	50	50	19.69	19.73	19.81	
20	64QAM	100	0	19.69	19.71	19.72	
Channel				1867.5	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.54	19.66	19.71	
15	QPSK	1	37	19.58	19.61	19.66	20.5
15	QPSK	1	74	19.53	19.63	19.63	
15	QPSK	36	0	19.71	19.64	19.68	20.5
15	QPSK	36	20	19.78	19.79	19.83	
15	QPSK	36	39	19.72	19.76	19.78	20.5
15	QPSK	75	0	19.73	19.74	19.69	
15	16QAM	1	0	19.87	20.00	20.03	20.5
15	16QAM	1	37	19.95	19.98	20.00	
15	16QAM	1	74	19.87	19.97	19.98	20.5
15	16QAM	36	0	19.73	19.84	19.70	
15	16QAM	36	20	19.76	19.79	19.82	20.5
15	16QAM	36	39	19.72	19.77	19.80	
15	16QAM	75	0	19.74	19.75	19.75	20.5
15	64QAM	1	0	19.77	19.80	19.80	
15	64QAM	1	37	19.83	19.87	19.85	20.5
15	64QAM	1	74	19.75	19.85	19.87	
15	64QAM	36	0	19.74	19.68	19.74	20.5
15	64QAM	36	20	19.80	19.79	19.88	
15	64QAM	36	39	19.75	19.78	19.85	20.5
15	64QAM	75	0	19.73	19.73	19.74	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.22	19.20	19.59	20.5
10	QPSK	1	25	19.50	19.51	19.51	
10	QPSK	1	49	19.22	19.24	19.48	20.5
10	QPSK	25	0	19.55	19.47	19.50	
10	QPSK	25	12	19.62	19.62	19.60	20.5
10	QPSK	25	25	19.50	19.51	19.53	
10	QPSK	50	0	19.53	19.54	19.50	20.5
10	16QAM	1	0	19.60	19.54	19.86	
10	16QAM	1	25	19.86	19.90	19.91	20.5
10	16QAM	1	49	19.60	19.62	19.86	
10	16QAM	25	0	19.55	19.47	19.50	20.5
10	16QAM	25	12	19.63	19.65	19.59	
10	16QAM	25	25	19.50	19.53	19.53	20.5
10	16QAM	50	0	19.55	19.54	19.53	
10	64QAM	1	0	19.49	19.39	19.82	20.5
10	64QAM	1	25	19.82	19.83	19.81	
10	64QAM	1	49	19.51	19.54	19.76	20.5
10	64QAM	25	0	19.61	19.51	19.56	
10	64QAM	25	12	19.70	19.69	19.64	20.5
10	64QAM	25	25	19.55	19.55	19.55	
10	64QAM	50	0	19.59	19.56	19.53	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.53	19.45	19.49	
5	QPSK	1	12	19.60	19.57	19.59	20.5
5	QPSK	1	24	19.44	19.44	19.47	
5	QPSK	12	0	19.67	19.57	19.64	20.5
5	QPSK	12	7	19.71	19.67	19.65	
5	QPSK	12	13	19.58	19.57	19.59	20.5
5	QPSK	25	0	19.61	19.62	19.58	
5	16QAM	1	0	19.88	19.77	19.80	20.5
5	16QAM	1	12	19.87	19.82	19.85	
5	16QAM	1	24	19.79	19.77	19.75	20.5
5	16QAM	12	0	19.68	19.61	19.62	
5	16QAM	12	7	19.69	19.68	19.63	20.5
5	16QAM	12	13	19.60	19.58	19.59	
5	16QAM	25	0	19.64	19.63	19.59	20.5
5	64QAM	1	0	19.81	19.69	19.73	
5	64QAM	1	12	19.79	19.77	19.73	20.5
5	64QAM	1	24	19.70	19.67	19.63	
5	64QAM	12	0	19.74	19.67	19.69	20.5
5	64QAM	12	7	19.76	19.74	19.71	
5	64QAM	12	13	19.67	19.65	19.65	20.5
5	64QAM	25	0	19.68	19.65	19.59	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1906.5	
3	QPSK	1	0	19.49	19.40	19.42	20.5
3	QPSK	1	8	19.51	19.55	19.59	
3	QPSK	1	14	19.35	19.44	19.47	20.5
3	QPSK	8	0	19.89	19.51	19.67	
3	QPSK	8	4	19.81	19.76	19.72	20.5
3	QPSK	8	7	19.59	19.67	19.53	
3	QPSK	15	0	19.65	19.54	19.65	20.5
3	16QAM	1	0	19.94	19.83	19.87	
3	16QAM	1	8	19.97	19.81	19.84	20.5
3	16QAM	1	14	19.80	19.82	19.76	
3	16QAM	8	0	19.75	19.58	19.54	20.5
3	16QAM	8	4	19.73	19.59	19.58	
3	16QAM	8	7	19.68	19.56	19.53	20.5
3	16QAM	15	0	19.69	19.63	19.59	
3	64QAM	1	0	19.75	19.74	19.73	20.5
3	64QAM	1	8	19.86	19.83	19.71	
3	64QAM	1	14	19.68	19.75	19.71	20.5
3	64QAM	8	0	19.64	19.63	19.71	
3	64QAM	8	4	19.72	19.75	19.75	20.5
3	64QAM	8	7	19.70	19.59	19.62	
3	64QAM	15	0	19.62	19.75	19.64	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1906.3	
1.4	QPSK	1	0	19.51	19.49	19.49	
1.4	QPSK	1	3	19.56	19.53	19.52	20.5
1.4	QPSK	1	5	19.45	19.45	19.40	
1.4	QPSK	3	0	19.53	19.52	19.46	20.5
1.4	QPSK	3	1	19.56	19.54	19.49	
1.4	QPSK	3	3	19.51	19.48	19.46	20.5
1.4	QPSK	6	0	19.59	19.57	19.56	
1.4	16QAM	1	0	19.85	19.81	19.80	20.5
1.4	16QAM	1	3	19.88	19.87	19.85	
1.4	16QAM	1	5	19.79	19.75	19.74	20.5
1.4	16QAM	3	0	19.64	19.60	19.56	
1.4	16QAM	3	1	19.64	19.64	19.58	20.5
1.4	16QAM	3	3	19.58	19.54	19.50	
1.4	16QAM	6	0	19.72	19.66	19.66	20.5
1.4	64QAM	1	0	19.79	19.77	19.71	
1.4	64QAM	1	3	19.81	19.77	19.74	20.5
1.4	64QAM	1	5	19.71	19.67	19.67	
1.4	64QAM	3	0	19.77	19.73	19.68	20.5
1.4	64QAM	3	1	19.80	19.78	19.75	
1.4	64QAM	3	3	19.73	19.69	19.67	20.5
1.4	64QAM	6	0	19.64	19.61	19.57	

Band 4_Ant 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)				
Channel				20050	20175	20300					
Frequency (MHz)				1720	1732.5	1745					
20	QPSK	1	0	19.55	19.52	19.54	20.5				
20	QPSK	1	49	19.71	19.73	19.72					
20	QPSK	1	99	19.47	19.47	19.41					
20	QPSK	50	0	19.76	19.76	19.74	20.5				
20	QPSK	50	24	19.90	19.80	19.80					
20	QPSK	50	50	19.79	19.78	19.76					
20	QPSK	100	0	19.81	19.72	19.70	20.5				
20	16QAM	1	0	19.88	19.88	19.87					
20	16QAM	1	49	20.05	20.11	20.08					
20	16QAM	1	99	19.82	19.78	19.76	20.5				
20	16QAM	50	0	19.76	19.77	19.75					
20	16QAM	50	24	19.89	19.82	19.79					
20	16QAM	50	50	19.79	19.78	19.81	20.5				
20	16QAM	100	0	19.80	19.72	19.71					
20	64QAM	1	0	19.72	19.73	19.74					
20	64QAM	1	49	19.92	19.97	19.97	20.5				
20	64QAM	1	99	19.71	19.70	19.66					
20	64QAM	50	0	19.79	19.79	19.78					
20	64QAM	50	24	19.82	19.84	19.81	20.5				
20	64QAM	50	50	19.82	19.80	19.79					
20	64QAM	100	0	19.83	19.76	19.75					
Channel				20025	20175	20305	Tune-up limit (dBm)				
Frequency (MHz)				1717.5	1732.5	1747.5					
15	QPSK	1	0	19.64	19.62	19.61	20.5				
15	QPSK	1	37	19.69	19.72	19.71					
15	QPSK	1	74	19.65	19.62	19.59					
15	QPSK	36	0	19.76	19.78	19.76	20.5				
15	QPSK	36	20	19.90	19.81	19.87					
15	QPSK	36	39	19.85	19.82	19.80					
15	QPSK	75	0	19.83	19.78	19.81	20.5				
15	16QAM	1	0	19.80	19.96	19.94					
15	16QAM	1	37	20.10	20.08	20.07					
15	16QAM	1	74	19.99	19.93	19.93	20.5				
15	16QAM	36	0	19.76	19.78	19.76					
15	16QAM	36	20	19.89	19.82	19.86					
15	16QAM	36	39	19.83	19.82	19.80	20.5				
15	16QAM	75	0	19.85	19.76	19.83					
15	64QAM	1	0	19.79	19.80	19.83					
15	64QAM	1	37	19.97	19.99	19.98	20.5				
15	64QAM	1	74	19.81	19.83	19.80					
15	64QAM	36	0	19.80	19.83	19.82					
15	64QAM	36	20	19.92	19.84	19.99	20.5				
15	64QAM	36	39	19.85	19.86	19.86					
15	64QAM	75	0	19.84	19.77	19.83					
Channel				20000	20175	20350	Tune-up limit (dBm)				
Frequency (MHz)				1715	1732.5	1750					
10	QPSK	1	0	19.32	19.31	19.31	20.5				
10	QPSK	1	25	19.62	19.59	19.59					
10	QPSK	1	49	19.28	19.26	19.24					
10	QPSK	25	0	19.58	19.55	19.55	20.5				
10	QPSK	25	12	19.70	19.64	19.61					
10	QPSK	25	25	19.59	19.56	19.56					
10	QPSK	50	0	19.63	19.56	19.52	20.5				
10	16QAM	1	0	19.66	19.70	19.65					
10	16QAM	1	25	19.97	19.97	19.97					
10	16QAM	1	49	19.65	19.67	19.62	20.5				
10	16QAM	25	0	19.58	19.58	19.57					
10	16QAM	25	12	19.74	19.64	19.64					
10	16QAM	25	25	19.61	19.58	19.58	20.5				
10	16QAM	50	0	19.65	19.54	19.55					
10	64QAM	1	0	19.56	19.56	19.54					
10	64QAM	1	25	19.91	19.90	19.91	20.5				
10	64QAM	1	49	19.52	19.55	19.53					
10	64QAM	25	0	19.61	19.60	19.60					
10	64QAM	25	12	19.75	19.71	19.68	20.5				
10	64QAM	25	25	19.62	19.61	19.61					
10	64QAM	50	0	19.66	19.58	19.58					
Channel				19975	20175	20375	Tune-up limit (dBm)				
Frequency (MHz)				1712.5	1732.5	1752.5					
5	QPSK	1	0	19.52	19.53	19.53	20.5				
5	QPSK	1	12	19.66	19.65	19.61					
5	QPSK	1	24	19.53	19.51	19.52					
5	QPSK	12	0	19.76	19.69	19.64	20.5				
5	QPSK	12	7	19.77	19.75	19.71					
5	QPSK	12	13	19.69	19.68	19.65					
5	QPSK	25	0	19.69	19.63	19.65	20.5				
5	16QAM	1	0	19.85	19.88	19.84					
5	16QAM	1	12	19.90	19.92	19.87					
5	16QAM	1	24	19.83	19.82	19.79	20.5				
5	16QAM	12	0	19.76	19.71	19.67					
5	16QAM	12	7	19.76	19.79	19.73					
5	16QAM	12	13	19.69	19.68	19.64	20.5				
5	16QAM	25	0	19.72	19.66	19.73					
5	64QAM	1	0	19.85	19.83	19.80					
5	64QAM	1	12	19.84	19.90	19.79	20.5				
5	64QAM	1	24	19.70	19.78	19.72					
5	64QAM	12	0	19.83	19.77	19.74					
5	64QAM	12	7	19.87	19.81	19.79	20.5				
5	64QAM	12	13	19.76	19.74	19.73					
5	64QAM	25	0	19.75	19.68	19.75					
Channel				19965	20175	20385	Tune-up limit (dBm)				
Frequency (MHz)				1711.5	1732.5	1753.5					
3	QPSK	1	0	19.50	19.44	19.58	20.5				
3	QPSK	1	8	19.58	19.74	19.71					
3	QPSK	1	14	19.46	19.58	19.46					
3	QPSK	8	0	19.74	19.29	19.72	20.5				
3	QPSK	8	4	19.74	19.72	19.78					
3	QPSK	8	7	19.59	19.70	19.75					
3	QPSK	15	0	19.71	19.68	19.74	20.5				
3	16QAM	1	0	19.90	19.83	19.83					
3	16QAM	1	8	19.84	19.89	19.91					
3	16QAM	1	14	19.77	19.77	19.75	20.5				
3	16QAM	8	0	19.85	19.81	19.59					
3	16QAM	8	4	19.68	19.80	19.70					
3	16QAM	8	7	19.69	19.58	19.63	20.5				
3	16QAM	15	0	19.66	19.69	19.63					
3	64QAM	1	0	19.87	19.85	19.79					
3	64QAM	1	8	19.74	19.87	19.87	20.5				
3	64QAM	1	14	19.65	19.78	19.76					
3	64QAM	8	0	19.83	19.70	19.74					
3	64QAM	8	4	19.97	19.88	19.83	20.5				
3	64QAM	8	7	19.84	19.74	19.77					
3	64QAM	15	0	19.80	19.58	19.75					
Channel				19957	20175	20393	Tune-up limit (dBm)				
Frequency (MHz)				1710.7	1732.5	1754.3					
1.4	QPSK	1	0	19.47	19.55	19.46	20.5				
1.4	QPSK	1	3	19.61	19.60	19.60					
1.4	QPSK	1	5	19.52	19.53	19.49					
1.4	QPSK	3	0	19.57	19.29	19.49	20.5				
1.4	QPSK	3	1	19.61	19.61	19.50					
1.4	QPSK	3	3	19.57	19.56	19.53					
1.4	QPSK	6	0	19.62	19.65	19.55	20.5				
1.4	16QAM	1	0	19.83	19.80	19.81					
1.4	16QAM	1	3	19.93	19.93	19.93					
1.4	16QAM	3	0	19.83	19.87	19.84	20.5				
1.4	16QAM	3	1	19.70	19.71	19.59					
1.4	16QAM	3	3	19.64	19.64	19.58					
1.4	16QAM	6	0	19.73	19.74	19.66	20.5				
1.4	16QAM	6	1	19.80	19.80	19.81					
1.4	16QAM	3	3	19.83	19.87	19.81					
1.4	64QAM	1	5	19.76	19.78	19.72	20.5				
1.4	64QAM	3	0	19.77	19.80	19.71					
1.4	64QAM	3	1	19.82	19.84	19.76					
1.4	64QAM	3	3	19.76	19.77	19.75	20.5				
1.4	64QAM	6	0	19.80	19.80	19.80					
1.4	64QAM	6	1	19.83	19.83	19.83					

Band 5_Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 20450	Power Middle Ch. / Freq. 20525	Power High Ch. / Freq. 20600	Tune-up limit (dBm)				
Channel				829	836.5	844					
Frequency (MHz)				21.05	21.08	21.10					
10	QPSK	1	0	21.05	21.08	21.10	22				
10	QPSK	1	25	21.01	21.04	21.05					
10	QPSK	1	49	20.99	21.04	20.99					
10	QPSK	25	0	21.08	21.10	21.11	22				
10	QPSK	25	12	21.18	21.17	21.12					
10	QPSK	25	25	21.13	21.12	21.14					
10	QPSK	50	0	21.10	21.10	21.02	22				
10	16QAM	1	0	21.39	21.40	21.45					
10	16QAM	1	25	21.40	21.41	21.43					
10	16QAM	1	49	21.37	21.38	21.37	22				
10	16QAM	25	0	21.08	21.10	21.10					
10	16QAM	25	12	21.18	21.19	21.12					
10	16QAM	25	25	21.14	21.12	21.13	22				
10	16QAM	50	0	21.08	21.09	21.01					
10	64QAM	1	0	21.26	21.27	21.31					
10	64QAM	1	25	21.35	21.32	21.37	22				
10	64QAM	1	49	21.29	21.28	21.26					
10	64QAM	25	0	21.14	21.14	21.15					
10	64QAM	25	12	21.23	21.23	21.18	22				
10	64QAM	25	25	21.20	21.17	21.17					
10	64QAM	50	0	21.12	21.12	21.04					
Channel				20425	20525	20625	Tune-up limit (dBm)				
Frequency (MHz)				826.5	836.5	846.5					
5	QPSK	1	0	20.98	20.99	20.95	22				
5	QPSK	1	12	21.09	21.12	21.12					
5	QPSK	1	24	21.04	21.03	20.97					
5	QPSK	12	0	21.10	21.07	21.08	22				
5	QPSK	12	7	21.19	21.18	21.18					
5	QPSK	12	13	21.15	21.16	21.13					
5	QPSK	25	0	21.14	21.15	21.14	22				
5	16QAM	1	0	21.26	21.30	21.26					
5	16QAM	1	12	21.30	21.37	21.34					
5	16QAM	1	24	21.35	21.35	21.29	22				
5	16QAM	12	0	21.07	21.09	21.08					
5	16QAM	12	7	21.18	21.17	21.18					
5	16QAM	12	13	21.14	21.16	21.12	22				
5	16QAM	25	0	21.14	21.15	21.12					
5	64QAM	1	0	21.22	21.21	21.20					
5	64QAM	1	12	21.26	21.30	21.28	22				
5	64QAM	1	24	21.25	21.28	21.20					
5	64QAM	12	0	21.15	21.16	21.16					
5	64QAM	12	7	21.26	21.27	21.25	22				
5	64QAM	12	13	21.23	21.22	21.20					
5	64QAM	25	0	21.18	21.18	21.16					
Channel				20415	20525	20635	Tune-up limit (dBm)				
Frequency (MHz)				825.5	836.5	847.5					
3	QPSK	1	0	20.98	21.01	21.00	22				
3	QPSK	1	8	21.11	21.14	21.13					
3	QPSK	1	14	21.04	21.06	21.02					
3	QPSK	8	0	21.08	21.09	21.08	22				
3	QPSK	8	4	21.18	21.17	21.18					
3	QPSK	8	7	21.14	21.15	21.13					
3	QPSK	15	0	21.15	21.16	21.09	22				
3	16QAM	1	0	21.32	21.30	21.33					
3	16QAM	1	8	21.30	21.44	21.42					
3	16QAM	1	14	21.36	21.37	21.33	22				
3	16QAM	8	0	21.13	21.13	21.12					
3	16QAM	8	4	21.23	21.25	21.20					
3	16QAM	8	7	21.19	21.20	21.16	22				
3	16QAM	15	0	21.19	21.17	21.06					
3	64QAM	1	0	21.18	21.22	21.21					
3	64QAM	1	8	21.32	21.37	21.33	22				
3	64QAM	1	14	21.24	21.32	21.24					
3	64QAM	8	0	21.16	21.18	21.18					
3	64QAM	8	4	21.24	21.25	21.25	22				
3	64QAM	8	7	21.21	21.25	21.20					
3	64QAM	15	0	21.19	21.18	21.11					
Channel				20407	20525	20643	Tune-up limit (dBm)				
Frequency (MHz)				824.7	836.5	848.3					
1.4	QPSK	1	0	20.92	20.99	20.97	22				
1.4	QPSK	1	3	21.05	21.08	21.04					
1.4	QPSK	1	5	20.99	20.98	20.96					
1.4	QPSK	3	0	20.96	21.03	20.95	22				
1.4	QPSK	3	1	21.02	21.04	20.99					
1.4	QPSK	3	3	20.99	21.01	20.99					
1.4	QPSK	6	0	21.08	21.07	21.04	22				
1.4	16QAM	1	0	21.21	21.32	21.28					
1.4	16QAM	1	3	21.35	21.37	21.34					
1.4	16QAM	1	5	21.30	21.29	21.23	22				
1.4	16QAM	3	0	21.08	21.09	21.06					
1.4	16QAM	3	1	21.11	21.12	21.10					
1.4	16QAM	3	3	21.05	21.10	21.04	22				
1.4	16QAM	6	0	21.14	21.16	21.12					
1.4	64QAM	1	0	21.18	21.22	21.19					
1.4	64QAM	1	3	21.24	21.28	21.21	22				
1.4	64QAM	1	5	21.19	21.23	21.18					
1.4	64QAM	3	0	21.19	21.22	21.17					
1.4	64QAM	3	1	21.25	21.28	21.25	22				
1.4	64QAM	3	3	21.19	21.22	21.18					
1.4	64QAM	6	0	21.10	21.10	21.07					



Band 7_Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.80	17.77	17.85	18.5
20	QPSK	1	49	17.83	17.84	17.89	
20	QPSK	1	99	17.91	17.91	17.96	
20	QPSK	50	0	17.93	17.99	17.97	18.5
20	QPSK	50	24	18.03	17.99	18.04	
20	QPSK	50	50	18.02	18.04	18.12	
20	QPSK	100	0	17.93	17.86	17.88	18.5
20	16QAM	1	0	18.15	18.10	18.19	
20	16QAM	1	49	18.21	18.17	18.22	
20	16QAM	1	99	18.25	18.20	18.28	18.5
20	16QAM	50	0	17.89	17.93	17.95	
20	16QAM	50	24	18.02	17.96	17.99	
20	16QAM	50	50	18.03	18.03	18.07	18.5
20	16QAM	100	0	17.93	17.82	17.89	
20	64QAM	1	0	18.01	18.00	18.06	
20	64QAM	1	49	18.11	18.12	18.12	18.5
20	64QAM	1	99	18.14	18.13	18.18	
20	64QAM	50	0	17.96	17.98	17.97	
20	64QAM	50	24	18.03	17.99	18.06	18.5
20	64QAM	50	50	18.05	18.07	18.09	
20	64QAM	100	0	17.96	17.88	17.93	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.83	17.83	17.92	18.5
15	QPSK	1	37	17.85	17.88	17.89	
15	QPSK	1	74	17.91	17.94	17.97	
15	QPSK	36	0	17.94	17.93	17.99	18.5
15	QPSK	36	20	18.01	17.96	18.09	
15	QPSK	36	39	18.05	18.02	18.11	
15	QPSK	75	0	17.95	17.88	17.95	18.5
15	16QAM	1	0	18.15	18.15	18.17	
15	16QAM	1	37	18.14	18.16	18.18	
15	16QAM	1	74	18.19	18.21	18.24	18.5
15	16QAM	36	0	17.91	17.92	17.98	
15	16QAM	36	20	18.04	17.95	18.07	
15	16QAM	36	39	18.01	18.02	18.05	18.5
15	16QAM	75	0	17.96	17.91	17.95	
15	64QAM	1	0	18.08	18.02	18.09	
15	64QAM	1	37	18.10	18.11	18.16	18.5
15	64QAM	1	74	18.13	18.17	18.23	
15	64QAM	36	0	17.98	17.97	18.00	
15	64QAM	36	20	18.11	18.01	18.06	18.5
15	64QAM	36	39	18.11	18.09	18.13	
15	64QAM	75	0	18.00	17.93	17.95	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	17.64	17.63	17.65	18.5
10	QPSK	1	25	17.61	17.66	17.71	
10	QPSK	1	49	17.66	17.71	17.73	
10	QPSK	25	0	17.73	17.74	17.72	18.5
10	QPSK	25	12	17.78	17.74	17.84	
10	QPSK	25	25	17.80	17.84	17.86	
10	QPSK	50	0	17.71	17.68	17.77	18.5
10	16QAM	1	0	17.86	18.02	18.01	
10	16QAM	1	25	18.03	18.04	18.04	
10	16QAM	1	49	18.04	18.13	18.11	18.5
10	16QAM	25	0	17.69	17.72	17.74	
10	16QAM	25	12	17.79	17.74	17.83	
10	16QAM	25	25	17.78	17.82	17.82	18.5
10	16QAM	50	0	17.69	17.62	17.72	
10	64QAM	1	0	17.83	17.89	17.93	
10	64QAM	1	25	17.99	18.01	18.03	18.5
10	64QAM	1	49	17.94	18.01	18.00	
10	64QAM	25	0	17.73	17.77	17.76	
10	64QAM	25	12	17.83	17.77	17.85	18.5
10	64QAM	25	25	17.82	17.84	17.89	
10	64QAM	50	0	17.76	17.67	17.77	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	17.64	17.68	17.75	18.5
5	QPSK	1	12	17.72	17.80	17.82	
5	QPSK	1	24	17.73	17.76	17.76	
5	QPSK	12	0	17.78	17.74	17.84	18.5
5	QPSK	12	7	17.82	17.78	17.88	
5	QPSK	12	13	17.79	17.79	17.82	
5	QPSK	25	0	17.76	17.74	17.81	18.5
5	16QAM	1	0	17.88	18.01	18.12	
5	16QAM	1	12	18.07	18.13	18.17	
5	16QAM	1	24	18.05	18.12	18.13	18.5
5	16QAM	12	0	17.79	17.76	17.84	
5	16QAM	12	7	17.81	17.81	17.89	
5	16QAM	12	13	17.79	17.81	17.84	18.5
5	16QAM	25	0	17.75	17.75	17.80	
5	64QAM	1	0	17.95	18.00	18.10	
5	64QAM	1	12	18.02	18.00	18.01	18.5
5	64QAM	1	24	18.03	18.06	18.05	
5	64QAM	12	0	17.83	17.82	17.88	
5	64QAM	12	7	17.89	17.85	17.92	18.5
5	64QAM	12	13	17.86	17.86	17.94	
5	64QAM	25	0	17.80	17.78	17.84	

Band 25_Ant 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up (dBm)				
Channel				20140	20340	20590					
Frequency (MHz)				1860	1880	1905					
20	QPSK	1	0	20.36	20.29	20.35	21				
20	QPSK	1	49	20.21	20.26	20.31					
20	QPSK	1	99	20.19	20.23	20.24					
20	QPSK	50	0	20.38	20.33	20.37					
20	QPSK	50	24	20.35	20.37	20.35	21				
20	QPSK	50	50	20.31	20.35	20.37					
20	QPSK	100	0	20.28	20.31	20.40					
20	16QAM	1	0	20.72	20.66	20.75					
20	16QAM	1	49	20.61	20.63	20.66	21				
20	16QAM	1	99	20.56	20.59	20.60					
20	16QAM	50	0	20.43	20.33	20.41					
20	16QAM	50	24	20.41	20.41	20.38					
20	16QAM	50	50	20.33	20.37	20.39	21				
20	16QAM	100	0	20.30	20.31	20.38					
20	64QAM	1	0	20.63	20.49	20.58					
20	64QAM	1	49	20.46	20.50	20.54					
20	64QAM	1	99	20.45	20.47	20.47	21				
20	64QAM	50	0	20.43	20.35	20.41					
20	64QAM	50	24	20.39	20.41	20.39					
20	64QAM	50	50	20.33	20.38	20.40					
20	64QAM	100	0	20.31	20.33	20.40					
Channel				26115	26340	26615	Tune-up (dBm)				
Frequency (MHz)				1857.5	1880	1907.5					
15	QPSK	1	0	20.11	20.30	20.36	21				
15	QPSK	1	37	20.25	20.25	20.29					
15	QPSK	1	74	20.19	20.26	20.29					
15	QPSK	36	0	20.33	20.24	20.29					
15	QPSK	36	20	20.39	20.39	20.46	21				
15	QPSK	36	39	20.32	20.34	20.40					
15	QPSK	75	0	20.34	20.34	20.40					
15	16QAM	1	0	20.41	20.63	20.69					
15	16QAM	1	37	20.64	20.65	20.64	21				
15	16QAM	1	74	20.43	20.62	20.59					
15	16QAM	36	0	20.33	20.25	20.30					
15	16QAM	36	20	20.41	20.43	20.45					
15	16QAM	36	39	20.35	20.37	20.38	21				
15	16QAM	75	0	20.34	20.36	20.40					
15	64QAM	1	0	20.37	20.51	20.54					
15	64QAM	1	37	20.50	20.52	20.53					
15	64QAM	1	74	20.32	20.47	20.49	21				
15	64QAM	36	0	20.37	20.29	20.34					
15	64QAM	36	20	20.43	20.44	20.48					
15	64QAM	36	39	20.37	20.40	20.42					
15	64QAM	75	0	20.36	20.35	20.40					
Channel				26090	26340	26640	Tune-up (dBm)				
Frequency (MHz)				1855	1880	1910					
10	QPSK	1	0	19.83	19.79	20.07	21				
10	QPSK	1	25	20.04	20.03	20.04					
10	QPSK	1	49	19.77	19.80	20.06					
10	QPSK	25	0	20.09	19.98	20.04					
10	QPSK	25	12	20.17	20.16	20.19	21				
10	QPSK	25	25	20.10	20.11	20.13					
10	QPSK	50	0	20.12	20.11	20.15					
10	16QAM	1	0	20.19	20.18	20.46					
10	16QAM	1	25	20.36	20.37	20.43	21				
10	16QAM	1	49	20.12	20.18	20.39					
10	16QAM	25	0	20.11	20.01	20.04					
10	16QAM	25	12	20.19	20.19	20.21					
10	16QAM	50	0	20.12	20.12	20.15	21				
10	64QAM	1	0	20.13	20.00	20.26					
10	64QAM	1	25	20.26	20.31	20.29					
10	64QAM	1	49	20.04	20.03	20.30					
10	64QAM	25	0	20.12	20.01	20.06	21				
10	64QAM	25	12	20.23	20.21	20.23					
10	64QAM	25	25	20.13	20.14	20.16					
10	64QAM	50	0	20.14	20.10	20.16					
Channel				26095	26340	26675	Tune-up (dBm)				
Frequency (MHz)				1852.5	1880	1912.5					
5	QPSK	1	0	20.07	20.00	20.04	21				
5	QPSK	1	12	20.10	20.09	20.11					
5	QPSK	1	24	20.07	20.11	20.09					
5	QPSK	12	0	20.16	20.08	20.10					
5	QPSK	12	7	20.21	20.18	20.22	21				
5	QPSK	12	13	20.20	20.18	20.20					
5	QPSK	25	0	20.16	20.14	20.18					
5	16QAM	1	0	20.41	20.29	20.39					
5	16QAM	1	12	20.36	20.35	20.40	21				
5	16QAM	1	24	20.41	20.39	20.41					
5	16QAM	12	0	20.23	20.08	20.13					
5	16QAM	12	7	20.23	20.19	20.22					
5	16QAM	12	13	20.19	20.17	20.22	21				
5	16QAM	25	0	20.19	20.19	20.19					
5	64QAM	1	0	20.32	20.23	20.32					
5	64QAM	1	12	20.31	20.25	20.26					
5	64QAM	1	24	20.33	20.31	20.35	21				
5	64QAM	12	0	20.24	20.14	20.14					
5	64QAM	12	7	20.26	20.23	20.23					
5	64QAM	12	13	20.23	20.24	20.23					
5	64QAM	25	0	20.21	20.19	20.20					
Channel				26095	26340	26675	Tune-up (dBm)				
Frequency (MHz)				1851.5	1880	1913.5					
3	QPSK	1	0	20.14	20.07	19.94	21				
3	QPSK	1	8	20.20	20.01	20.19					
3	QPSK	1	14	20.07	20.09	20.12					
3	QPSK	8	0	20.07	20.17	20.11					
3	QPSK	8	4	20.13	20.13	20.18	21				
3	QPSK	8	7	20.19	20.16	20.25					
3	QPSK	15	0	20.18	20.16	20.25					
3	16QAM	1	0	20.44	20.36	20.42					
3	16QAM	1	8	20.36	20.44	20.48	21				
3	16QAM	1	14	20.32	20.47	20.46					
3	16QAM	8	0	20.32	19.99	20.20					
3	16QAM	8	4	20.15	20.20	20.13					
3	16QAM	8	7	20.19	20.20	20.21	21				
3	16QAM	15	0	20.29	20.11	20.16					
3	64QAM	1	0	20.32	20.29	20.24					
3	64QAM	1	8	20.33	20.31	20.33					
3	64QAM	1	14	20.33	20.21	20.38	21				
3	64QAM	8	0	20.23	20.21	20.07					
3	64QAM	8	4	20.33	20.16	20.23					
3	64QAM	8	7	20.22	20.32	20.25					
3	64QAM	15	0	20.11	20.26	20.17					
Channel				26047	26340	26683	Tune-up (dBm)				
Frequency (MHz)				1850.7	1880	1914.3					
1.4	QPSK	1	0	20.02	19.98	19.92	21				
1.4	QPSK	1	3	20.07	20.03	20.06					
1.4	QPSK	1	5	20.02	19.98	19.93					
1.4	QPSK	3	0	20.01	19.96	19.93					
1.4	QPSK	3	1	20.05	20.02	19.96	21				
1.4	QPSK	3	3	20.02	19.99	20.02					
1.4	QPSK	6	0	20.08	20.03	20.04					
1.4	16QAM	1	0	20.33	20.27	20.26					
1.4	16QAM	1	2	20.36	20.36	20.42	21				
1.4	16QAM	1	5	20.32	20.29	20.37					
1.4											
1.4	16QAM	3	0	20.09	20.07	20.05	21				
1.4	16QAM	3	1	20.15	20.14	20.09					
1.4	16QAM	3	3	20.09	20.07	20.11					
1.4	16QAM	6	0	20.16	20.16	20.11					
1.4	16QAM	3	2	20.24	20.24	20.21	21				
1.4	16QAM	3	3	20.29	20.28	20.29					
1.4	16QAM	1	5	20.24	20.22	20.21					
1.4	64QAM	3	1	20.26	20.23	20.16					
1.4	64QAM	3	3	20.24	20.22	20.22	21				
1.4	64QAM	3	5	20.24	20.22	20.22					
1.4	64QAM	3	7	20.24	20.22	20.22					
1.4	64QAM	3	9	20.24	20.22	20.22					



Band 26_Ant 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)				
Channel				26765	26865	26965					
Frequency (MHz)				821.5	831.5	841.5					
15	QPSK	1	0	21.29	21.27	21.25	22				
15	QPSK	1	37	21.17	21.26	21.24					
15	QPSK	1	74	21.19	21.25	21.13					
15	QPSK	36	0	21.24	21.24	21.21	22				
15	QPSK	36	20	21.29	21.30	21.34					
15	QPSK	36	39	21.29	21.24	21.26					
15	QPSK	75	0	21.25	21.26	21.20	22				
15	16QAM	1	0	21.69	21.58	21.55					
15	16QAM	1	37	21.44	21.58	21.49					
15	16QAM	1	74	21.47	21.55	21.42	22				
15	16QAM	36	0	21.21	21.18	21.21					
15	16QAM	36	20	21.34	21.19	21.32					
15	16QAM	36	39	21.29	21.30	21.24	22				
15	16QAM	75	0	21.28	21.23	21.22					
15	64QAM	1	0	21.47	21.37	21.53					
15	64QAM	1	37	21.40	21.46	21.56	22				
15	64QAM	1	74	21.46	21.43	21.31					
15	64QAM	36	0	20.28	20.26	20.25					
15	64QAM	36	20	20.34	20.26	20.37	21				
15	64QAM	36	39	20.25	20.31	20.28					
15	64QAM	75	0	20.29	20.22	20.11					
Channel				26740	26865	26990	Tune-up limit (dBm)				
Frequency (MHz)				819	831.5	844					
10	QPSK	1	0	21.03	21.06	21.05	22				
10	QPSK	1	25	20.93	21.00	20.96					
10	QPSK	1	49	20.95	20.95	20.92					
10	QPSK	25	0	20.90	20.89	20.89	22				
10	QPSK	25	12	21.08	21.09	21.04					
10	QPSK	25	25	21.01	21.11	20.99					
10	QPSK	50	0	21.01	20.98	20.94	22				
10	16QAM	1	0	21.36	21.44	21.39					
10	16QAM	1	25	21.35	21.31	21.38					
10	16QAM	1	49	21.31	21.38	21.30	22				
10	16QAM	25	0	20.94	20.92	20.94					
10	16QAM	25	12	21.12	21.03	21.10					
10	16QAM	25	25	20.98	21.00	21.08	22				
10	16QAM	50	0	21.01	20.99	20.97					
10	64QAM	1	0	21.34	21.25	21.22					
10	64QAM	1	25	21.18	21.35	21.19	22				
10	64QAM	1	49	21.14	21.26	21.06					
10	64QAM	25	0	19.95	19.95	19.99					
10	64QAM	25	12	20.17	20.08	20.09	21				
10	64QAM	25	25	20.01	20.10	20.01					
10	64QAM	50	0	20.04	19.95	19.99					
Channel				26715	26865	27015	Tune-up limit (dBm)				
Frequency (MHz)				816.5	831.5	846.5					
5	QPSK	1	0	20.88	21.03	21.03	22				
5	QPSK	1	12	21.09	21.09	21.05					
5	QPSK	1	24	20.97	21.05	20.95					
5	QPSK	12	0	21.04	21.03	21.00	22				
5	QPSK	12	7	21.17	21.17	21.11					
5	QPSK	12	13	21.11	21.13	21.02					
5	QPSK	25	0	21.09	21.10	20.99	22				
5	16QAM	1	0	21.16	21.30	21.26					
5	16QAM	1	12	21.36	21.29	21.29					
5	16QAM	1	24	21.28	21.40	21.28	22				
5	16QAM	12	0	21.05	21.02	21.06					
5	16QAM	12	7	21.15	21.16	21.14					
5	16QAM	12	13	21.11	21.09	21.06	22				
5	16QAM	25	0	21.12	21.03	21.04					
5	64QAM	1	0	21.18	21.22	21.15					
5	64QAM	1	12	21.19	21.22	21.22	22				
5	64QAM	1	24	21.21	21.30	21.18					
5	64QAM	12	0	20.09	20.08	20.11					
5	64QAM	12	7	20.29	20.19	20.16	21				
5	64QAM	12	13	20.14	20.11	20.10					
5	64QAM	25	0	20.11	20.05	20.05					
Channel				26705	26865	27025	Tune-up limit (dBm)				
Frequency (MHz)				815.5	831.5	847.5					
3	QPSK	1	0	20.95	21.00	20.98	22				
3	QPSK	1	8	21.06	21.09	21.03					
3	QPSK	1	14	20.97	21.07	20.95					
3	QPSK	8	0	21.06	21.09	21.02	22				
3	QPSK	8	4	21.11	21.14	21.02					
3	QPSK	8	7	21.09	21.15	21.02					
3	QPSK	15	0	21.05	21.05	21.04	22				
3	16QAM	1	0	21.26	21.31	21.33					
3	16QAM	1	8	21.37	21.36	21.33					
3	16QAM	1	14	21.23	21.38	21.25	22				
3	16QAM	8	0	21.05	21.07	21.12					
3	16QAM	8	4	21.19	21.16	21.15					
3	16QAM	8	7	21.14	21.13	21.07	22				
3	16QAM	15	0	21.14	21.05	21.05					
3	64QAM	1	0	21.07	21.42	21.23					
3	64QAM	1	8	21.27	21.32	21.22	22				
3	64QAM	1	14	21.20	21.27	21.17					
3	64QAM	8	0	20.06	20.11	20.11					
3	64QAM	8	4	20.29	20.21	20.12	21				
3	64QAM	8	7	20.15	20.12	20.13					
3	64QAM	15	0	20.10	20.06	20.06					
Channel				26697	26865	27033	Tune-up limit (dBm)				
Frequency (MHz)				814.7	831.5	848.3					
1.4	QPSK	1	0	20.87	20.92	20.81	22				
1.4	QPSK	1	3	21.01	21.04	20.94					
1.4	QPSK	1	5	20.97	20.96	20.89					
1.4	QPSK	3	0	20.93	20.83	20.94	22				
1.4	QPSK	3	1	20.95	20.95	20.89					
1.4	QPSK	3	3	20.96	20.96	20.86					
1.4	QPSK	6	0	21.04	20.99	20.95	22				
1.4	16QAM	1	0	21.13	21.19	21.20					
1.4	16QAM	1	3	21.36	21.32	21.19					
1.4	16QAM	1	5	21.24	21.28	21.12	22				
1.4	16QAM	3	0	21.00	21.02	20.91					
1.4	16QAM	3	1	21.13	20.99	21.04					
1.4	16QAM	3	3	20.96	21.02	20.90	22				
1.4	16QAM	6	0	21.09	21.10	21.09					
1.4	64QAM	1	0	21.12	21.16	21.08					
1.4	64QAM	1	3	21.24	21.23	21.03	22				
1.4	64QAM	1	5	21.17	21.26	21.06					
1.4	64QAM	3	0	21.09	21.05	21.07					
1.4	64QAM	3	1	21.16	21.15	21.07	22				
1.4	64QAM	3	3	21.15	21.15	21.05					
1.4	64QAM	6	0	20.00	19.96	20.01					

Band 66_Ant 3											
BW (MHz)	Modulation Channel	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)				
Channel				Frequency (MHz)							
				1720	1745	1770					
20	QPSK	1	0	19.06	19.15	19.36	20				
20	QPSK	1	49	19.26	19.25	19.24					
20	QPSK	1	99	19.95	19.97	19.17					
20	QPSK	50	0	19.35	19.34	19.34					
20	QPSK	50	24	19.44	19.37	19.45	20				
20	QPSK	50	50	19.29	19.31	19.31					
20	QPSK	100	0	19.35	19.38	19.37					
20	16QAM	1	0	19.40	19.42	19.77					
20	16QAM	1	49	19.62	19.66	19.66	20				
20	16QAM	1	99	19.34	19.33	19.54					
20	16QAM	50	0	19.32	19.35	19.34					
20	16QAM	50	24	19.40	19.36	19.46					
20	16QAM	50	50	19.32	19.34	19.33	20				
20	16QAM	100	0	19.33	19.36	19.37					
20	64QAM	1	0	19.23	19.26	19.58					
20	64QAM	1	49	19.47	19.50	19.50	20				
20	64QAM	1	99	19.16	19.21	19.40					
20	64QAM	50	0	19.34	19.35	19.38					
20	64QAM	50	24	19.47	19.36	19.48					
20	64QAM	50	50	19.32	19.34	19.33	20				
20	64QAM	100	0	19.36	19.38	19.39					
Channel				132047	132322	132697	Tune-up limit (dBm)				
				Frequency (MHz)							
				1717.5	1745	1772.5					
15	QPSK	1	0	19.19	19.22	19.36	20				
15	QPSK	1	37	19.23	19.26	19.28					
15	QPSK	1	74	19.09	19.11	19.22					
15	QPSK	36	0	19.36	19.36	19.38					
15	QPSK	36	20	19.43	19.41	19.34	20				
15	QPSK	36	39	19.33	19.34	19.35					
15	QPSK	75	0	19.36	19.40	19.32					
15	16QAM	1	0	19.50	19.53	19.70					
15	16QAM	1	37	19.60	19.64	19.64	20				
15	16QAM	1	74	19.43	19.42	19.55					
15	16QAM	36	0	19.38	19.37	19.39					
15	16QAM	36	20	19.40	19.43	19.34					
15	16QAM	36	39	19.31	19.34	19.34	20				
15	16QAM	75	0	19.36	19.37	19.32					
15	64QAM	1	0	19.36	19.42	19.56					
15	64QAM	1	37	19.52	19.52	19.54	20				
15	64QAM	1	74	19.33	19.31	19.42					
15	64QAM	36	0	19.40	19.40	19.43					
15	64QAM	36	20	19.47	19.47	19.40					
15	64QAM	36	39	19.35	19.38	19.38	20				
15	64QAM	75	0	19.37	19.40	19.33					
Channel				132022	132322	132622	Tune-up limit (dBm)				
				Frequency (MHz)							
				1715	1745	1775					
10	QPSK	1	0	18.64	18.88	18.88	20				
10	QPSK	1	25	19.09	19.06	19.09					
10	QPSK	1	49	18.63	18.65	18.85					
10	QPSK	25	0	19.09	19.09	19.11					
10	QPSK	25	12	19.21	19.15	19.24	20				
10	QPSK	25	25	19.10	19.13	19.12					
10	QPSK	50	0	19.16	19.18	19.18					
10	16QAM	1	0	19.21	19.20	19.23					
10	16QAM	1	25	19.45	19.48	19.47	20				
10	16QAM	1	49	19.22	19.22	19.23					
10	16QAM	25	0	19.13	19.11	19.14					
10	16QAM	25	12	19.22	19.18	19.27					
10	16QAM	25	25	19.12	19.09	19.13	20				
10	16QAM	50	0	19.16	19.19	19.20					
10	64QAM	1	0	19.06	19.08	19.11					
10	64QAM	1	25	19.39	19.39	19.42					
10	64QAM	1	49	19.11	19.14	19.12	20				
10	64QAM	25	0	19.13	19.15	19.17					
10	64QAM	25	12	19.26	19.20	19.32					
10	64QAM	25	25	19.15	19.15	19.17					
10	64QAM	50	0	19.26	19.21	19.25	20				
Channel				131997	132322	132647	Tune-up limit (dBm)				
				Frequency (MHz)							
				1712.5	1745	1777.5					
5	QPSK	1	0	19.06	19.07	19.12	20				
5	QPSK	1	12	19.13	19.15	19.15					
5	QPSK	1	24	19.03	19.03	19.07					
5	QPSK	12	0	19.25	19.18	19.19					
5	QPSK	12	7	19.27	19.23	19.18	20				
5	QPSK	12	13	19.17	19.17	19.17					
5	QPSK	25	0	19.20	19.22	19.18					
5	16QAM	1	0	19.40	19.39	19.41					
5	16QAM	1	12	19.36	19.40	19.45	20				
5	16QAM	1	24	19.36	19.37	19.36					
5	16QAM	12	0	19.27	19.22	19.23					
5	16QAM	12	7	19.25	19.27	19.20					
5	16QAM	12	13	19.17	19.16	19.20	20				
5	16QAM	25	0	19.23	19.22	19.20					
5	64QAM	1	0	19.39	19.36	19.40					
5	64QAM	1	12	19.36	19.39	19.38					
5	64QAM	1	24	19.24	19.31	19.28	20				
5	64QAM	12	0	19.31	19.30	19.29					
5	64QAM	12	7	19.32	19.32	19.28					
5	64QAM	12	13	19.23	19.26	19.27					
5	64QAM	25	0	19.23	19.21	19.22	20				
Channel				131987	132322	132657	Tune-up limit (dBm)				
				Frequency (MHz)							
				1710.5	1745	1779.5					
3	QPSK	1	0	19.04	19.07	19.11	20				
3	QPSK	1	8	19.16	19.08	19.16					
3	QPSK	1	14	18.95	19.01	19.11					
3	QPSK	8	0	19.33	19.18	19.23					
3	QPSK	8	4	19.17	19.16	19.09	20				
3	QPSK	8	7	19.11	19.24	19.17					
3	QPSK	15	0	19.30	19.17	19.17					
3	16QAM	1	0	19.40	19.37	19.45					
3	16QAM	1	8	19.30	19.50	19.36	20				
3	16QAM	1	14	19.46	19.38	19.27					
3	16QAM	8	0	19.17	19.14	19.30					
3	16QAM	8	4	19.28	19.33	19.10					
3	16QAM	8	7	19.14	19.14	19.11	20				
3	16QAM	15	0	19.21	19.30	19.23					
3	64QAM	1	0	19.32	19.31	19.33					
3	64QAM	1	8	19.29	19.39	19.46					
3	64QAM	1	14	19.31	19.24	19.30	20				
3	64QAM	8	0	19.22	19.25	19.34					
3	64QAM	8	4	19.41	19.24	19.22					
3	64QAM	8	7	19.15	19.21	19.29					
3	64QAM	15	0	19.13	19.15	19.27	20				
Channel				131976	132322	132665	Tune-up limit (dBm)				
				Frequency (MHz)							
				1710.7	1745	1779.3					
1.4	QPSK	1	0	18.99	19.05	19.07	20				
1.4	QPSK	1	3	19.13	19.10	19.15					
1.4	QPSK	1					20				
1.4	QPSK	1	8	19.06	19.07	19.10					
1.4	QPSK	3	1	19.09	19.10	19.12	20				
1.4	QPSK	3	3	19.05	19.02	19.06					
1.4	QPSK	6	0	19.13	19.14	19.16	20				
1.4	16QAM	1	0	19.29	19.39	19.42					
1.4	16QAM	1	3	19.43	19.45	19.45	20				
1.4	16QAM	3	0	19.35	19.33	19.35					
1.4	16QAM	3	0	19.15	19.16	19.19	20				
1.4	16QAM	3	1	19.21	19.20	19.21					
1.4	16QAM	3	3	19.09	19.12	19.14	20				
1.4	16QAM	6	0	19.22	19.24	19.24					
1.4	16QAM	6	3	19.35	19.36	19.38	20				
1.4	64QAM	3	3	19.31	19.37	19.39					
1.4	64QAM	1	5	19.21	19.31	19.29	20				
1.4	64QAM	3	0	19.28	19.29	19.32					
1.4	64QAM	3	1	19.31	19.30	19.37	20				
1.4	64QAM	3	3	19.21	19.29	19.28					
1.4	64QAM	3	4	19.29	19.31	19.17	20				



Band 2_Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 18700	Power Middle Ch. Freq. 18800	Power High Ch. Freq. 19100	Tune-up limit (dBm)
Channel				1860	1880	1900	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.69	19.62	19.68	21
20	QPSK	1	49	19.56	19.59	19.61	
20	QPSK	1	99	19.51	19.58	19.58	
20	QPSK	50	0	19.67	19.60	19.63	
20	QPSK	50	24	19.74	19.77	19.74	
20	QPSK	50	50	19.68	19.72	19.75	21
20	QPSK	100	0	19.68	19.71	19.66	
20	16QAM	1	0	20.05	19.97	20.01	
20	16QAM	1	49	19.93	19.96	20.01	
20	16QAM	1	99	19.90	19.93	19.96	
20	16QAM	50	0	19.69	19.62	19.64	21
20	16QAM	50	24	19.75	19.78	19.75	
20	16QAM	50	50	19.70	19.74	19.77	
20	16QAM	100	0	19.69	19.71	19.67	
20	64QAM	1	0	19.95	19.84	19.92	
20	64QAM	1	49	19.80	19.83	19.88	21
20	64QAM	1	99	19.78	19.83	19.83	
20	64QAM	50	0	19.68	19.62	19.69	
20	64QAM	50	24	19.75	19.77	19.78	
20	64QAM	50	50	19.69	19.73	19.81	
20	64QAM	100	0	19.69	19.71	19.72	Tune-up limit (dBm)
Channel				1867.5	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.54	19.66	19.71	21
15	QPSK	1	37	19.58	19.61	19.66	
15	QPSK	1	74	19.53	19.63	19.63	
15	QPSK	36	0	19.71	19.64	19.68	
15	QPSK	36	20	19.78	19.79	19.83	
15	QPSK	36	39	19.72	19.76	19.78	21
15	QPSK	75	0	19.73	19.74	19.69	
15	16QAM	1	0	19.87	20.00	20.03	
15	16QAM	1	37	19.95	19.98	20.00	
15	16QAM	1	74	19.87	19.97	19.98	
15	16QAM	36	0	19.73	19.84	19.70	21
15	16QAM	36	20	19.76	19.79	19.82	
15	16QAM	36	39	19.72	19.77	19.80	
15	16QAM	75	0	19.74	19.75	19.75	
15	64QAM	1	0	19.77	19.80	19.80	
15	64QAM	1	37	19.83	19.87	19.85	21
15	64QAM	1	74	19.75	19.85	19.87	
15	64QAM	36	0	19.74	19.68	19.74	
15	64QAM	36	20	19.80	19.79	19.88	
15	64QAM	36	39	19.75	19.78	19.85	
15	64QAM	75	0	19.73	19.73	19.74	Tune-up limit (dBm)
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.22	19.20	19.59	21
10	QPSK	1	25	19.50	19.51	19.51	
10	QPSK	1	49	19.22	19.24	19.48	
10	QPSK	25	0	19.55	19.47	19.50	
10	QPSK	25	12	19.62	19.62	19.60	
10	QPSK	25	25	19.50	19.51	19.53	21
10	QPSK	50	0	19.53	19.54	19.50	
10	16QAM	1	0	19.60	19.54	19.86	
10	16QAM	1	25	19.86	19.90	19.91	
10	16QAM	1	49	19.60	19.62	19.86	
10	16QAM	25	0	19.55	19.47	19.50	21
10	16QAM	25	12	19.63	19.65	19.59	
10	16QAM	25	25	19.50	19.53	19.53	
10	16QAM	50	0	19.55	19.54	19.53	
10	64QAM	1	0	19.49	19.39	19.82	
10	64QAM	1	25	19.82	19.83	19.81	21
10	64QAM	1	49	19.51	19.54	19.76	
10	64QAM	25	0	19.61	19.51	19.56	
10	64QAM	25	12	19.70	19.69	19.64	
10	64QAM	25	25	19.55	19.55	19.55	
10	64QAM	50	0	19.59	19.56	19.53	Tune-up limit (dBm)
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.53	19.45	19.49	21
5	QPSK	1	12	19.60	19.57	19.59	
5	QPSK	1	24	19.44	19.44	19.47	
5	QPSK	12	0	19.67	19.57	19.64	
5	QPSK	12	7	19.71	19.67	19.65	
5	QPSK	12	13	19.58	19.57	19.59	21
5	QPSK	25	0	19.61	19.62	19.58	
5	16QAM	1	0	19.88	19.77	19.80	
5	16QAM	1	12	19.87	19.82	19.85	
5	16QAM	1	24	19.79	19.77	19.75	
5	16QAM	12	0	19.68	19.61	19.62	21
5	16QAM	12	7	19.69	19.68	19.63	
5	16QAM	12	13	19.60	19.58	19.59	
5	16QAM	25	0	19.64	19.63	19.59	
5	64QAM	1	0	19.81	19.69	19.73	
5	64QAM	1	12	19.79	19.77	19.73	21
5	64QAM	1	24	19.70	19.67	19.63	
5	64QAM	12	0	19.74	19.67	19.69	
5	64QAM	12	7	19.76	19.74	19.71	
5	64QAM	12	13	19.67	19.65	19.65	
5	64QAM	25	0	19.68	19.65	19.59	Tune-up limit (dBm)
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.49	19.40	19.42	21
3	QPSK	1	8	19.51	19.55	19.59	
3	QPSK	1	14	19.35	19.44	19.47	
3	QPSK	8	0	19.69	19.51	19.67	
3	QPSK	8	4	19.81	19.76	19.72	
3	QPSK	8	7	19.59	19.67	19.53	21
3	QPSK	15	0	19.65	19.54	19.65	
3	16QAM	1	0	19.94	19.83	19.87	
3	16QAM	1	8	19.97	19.81	19.84	
3	16QAM	1	14	19.80	19.82	19.76	
3	16QAM	8	0	19.75	19.58	19.54	21
3	16QAM	8	4	19.73	19.59	19.58	
3	16QAM	8	7	19.68	19.56	19.53	
3	16QAM	15	0	19.69	19.63	19.59	
3	64QAM	1	0	19.75	19.74	19.73	
3	64QAM	1	8	19.86	19.83	19.71	21
3	64QAM	1	14	19.68	19.75	19.71	
3	64QAM	8	0	19.64	19.63	19.71	
3	64QAM	8	4	19.72	19.75	19.75	
3	64QAM	8	7	19.70	19.59	19.62	
3	64QAM	15	0	19.62	19.75	19.64	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.51	19.49	19.49	21
1.4	QPSK	1	3	19.56	19.53	19.52	
1.4	QPSK	1	5	19.45	19.45	19.40	
1.4	QPSK	3	0	19.53	19.52	19.46	
1.4	QPSK	3	1	19.56	19.54	19.49	
1.4	QPSK	3	3	19.51	19.48	19.46	21
1.4	QPSK	6	0	19.59	19.57	19.56	
1.4	16QAM	1	0	19.85	19.81	19.80	
1.4	16QAM	1	3	19.88	19.87	19.85	
1.4	16QAM	1	5	19.79	19.75	19.74	
1.4	16QAM	3	0	19.64	19.60	19.56	21
1.4	16QAM	3	1	19.64	19.64	19.58	
1.4	16QAM	3	3	19.58	19.54	19.50	
1.4	16QAM	6	0	19.72	19.66	19.66	
1.4	64QAM	1	0	19.79	19.77	19.71	
1.4	64QAM	1	3	19.81	19.77	19.74	21
1.4	64QAM	1	5	19.71	19.67	19.67	
1.4	64QAM	3	0	19.77	19.73	19.68	
1.4	64QAM	3	1	19.80	19.78	19.75	
1.4	64QAM	3	3	19.73	19.69	19.67	
1.4	64QAM	6	0	19.64	19.61	19.57	21

Band 4_Ant 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)				
Channel				20050	20175	20300					
Frequency (MHz)				1720	1732.5	1745					
20	QPSK	1	0	19.55	19.52	19.54	21				
20	QPSK	1	49	19.71	19.73	19.72					
20	QPSK	1	99	19.47	19.47	19.41					
20	QPSK	50	0	19.76	19.76	19.74					
20	QPSK	50	24	19.90	19.80	19.80	21				
20	QPSK	50	50	19.79	19.78	19.76					
20	QPSK	100	0	19.81	19.72	19.70					
20	16QAM	1	0	19.88	19.88	19.87					
20	16QAM	1	49	20.05	20.11	20.08	21				
20	16QAM	1	99	19.82	19.78	19.76					
20	16QAM	50	0	19.76	19.77	19.75					
20	16QAM	50	24	19.89	19.82	19.79					
20	16QAM	50	50	19.79	19.78	19.81	21				
20	16QAM	100	0	19.80	19.72	19.71					
20	64QAM	1	0	19.72	19.73	19.74					
20	64QAM	1	49	19.92	19.97	19.97	21				
20	64QAM	1	99	19.71	19.70	19.66					
20	64QAM	50	0	19.79	19.79	19.78					
20	64QAM	50	24	19.82	19.84	19.81					
20	64QAM	50	50	19.82	19.80	19.79	21				
20	64QAM	100	0	19.83	19.76	19.75					
Channel				20025	20175	20305	Tune-up limit (dBm)				
Frequency (MHz)				1717.5	1732.5	1747.5					
15	QPSK	1	0	19.64	19.62	19.61	21				
15	QPSK	1	37	19.69	19.72	19.71					
15	QPSK	1	74	19.65	19.62	19.59					
15	QPSK	36	0	19.76	19.78	19.76					
15	QPSK	36	20	19.90	19.81	19.87	21				
15	QPSK	36	39	19.85	19.82	19.80					
15	QPSK	75	0	19.83	19.78	19.81					
15	16QAM	1	0	19.80	19.96	19.94					
15	16QAM	1	37	20.10	20.08	20.07	21				
15	16QAM	1	74	19.99	19.93	19.93					
15	16QAM	36	0	19.76	19.78	19.76					
15	16QAM	36	20	19.89	19.82	19.86					
15	16QAM	36	39	19.83	19.82	19.80	21				
15	16QAM	75	0	19.85	19.76	19.83					
15	64QAM	1	0	19.79	19.80	19.83					
15	64QAM	1	37	19.97	19.99	19.98	21				
15	64QAM	1	74	19.81	19.83	19.80					
15	64QAM	36	0	19.80	19.83	19.82					
15	64QAM	36	20	19.92	19.84	19.99					
15	64QAM	36	39	19.85	19.86	19.86	21				
15	64QAM	75	0	19.84	19.77	19.83					
Channel				20000	20175	20350	Tune-up limit (dBm)				
Frequency (MHz)				1715	1732.5	1750					
10	QPSK	1	0	19.32	19.31	19.31	21				
10	QPSK	1	25	19.62	19.59	19.59					
10	QPSK	1	49	19.28	19.26	19.24					
10	QPSK	25	0	19.58	19.55	19.55					
10	QPSK	25	12	19.70	19.64	19.61	21				
10	QPSK	25	25	19.59	19.56	19.56					
10	QPSK	50	0	19.63	19.56	19.52					
10	16QAM	1	0	19.66	19.70	19.65					
10	16QAM	1	25	19.97	19.97	19.97	21				
10	16QAM	1	49	19.65	19.67	19.62					
10	16QAM	25	0	19.58	19.58	19.57					
10	16QAM	25	12	19.74	19.64	19.64					
10	16QAM	25	25	19.61	19.58	19.58	21				
10	16QAM	50	0	19.65	19.54	19.55					
10	64QAM	1	0	19.56	19.56	19.54					
10	64QAM	1	25	19.91	19.90	19.91					
10	64QAM	1	49	19.52	19.55	19.53	21				
10	64QAM	25	0	19.61	19.60	19.60					
10	64QAM	25	12	19.75	19.71	19.68					
10	64QAM	25	25	19.62	19.61	19.61					
10	64QAM	50	0	19.66	19.58	19.58	21				
Channel				19975	20175	20375	Tune-up limit (dBm)				
Frequency (MHz)				1712.5	1732.5	1752.5					
5	QPSK	1	0	19.52	19.53	19.53	21				
5	QPSK	1	12	19.66	19.65	19.61					
5	QPSK	1	24	19.53	19.51	19.52					
5	QPSK	12	0	19.76	19.69	19.64					
5	QPSK	12	7	19.77	19.75	19.71	21				
5	QPSK	12	13	19.69	19.68	19.65					
5	QPSK	25	0	19.69	19.63	19.65					
5	16QAM	1	0	19.85	19.88	19.84					
5	16QAM	1	12	19.90	19.92	19.87	21				
5	16QAM	1	24	19.83	19.82	19.79					
5	16QAM	12	0	19.76	19.71	19.67					
5	16QAM	12	7	19.76	19.79	19.73					
5	16QAM	12	13	19.69	19.68	19.64	21				
5	16QAM	25	0	19.72	19.66	19.73					
5	64QAM	1	0	19.85	19.83	19.80					
5	64QAM	1	12	19.84	19.90	19.79					
5	64QAM	1	24	19.70	19.78	19.72	21				
5	64QAM	12	0	19.83	19.78	19.72					
5	64QAM	12	7	19.87	19.81	19.79					
5	64QAM	12	13	19.75	19.74	19.73					
5	64QAM	25	0	19.75	19.68	19.75	21				
Channel				19965	20175	20385	Tune-up limit (dBm)				
Frequency (MHz)				1711.5	1732.5	1753.5					
3	QPSK	1	0	19.50	19.44	19.58	21				
3	QPSK	1	8	19.58	19.74	19.71					
3	QPSK	1	14	19.46	19.58	19.46					
3	QPSK	8	0	19.74	19.29	19.72					
3	QPSK	8	4	19.74	19.72	19.78	21				
3	QPSK	8	7	19.59	19.70	19.75					
3	QPSK	15	0	19.71	19.68	19.74					
3	16QAM	1	0	19.90	19.83	19.83					
3	16QAM	1	8	19.84	19.89	19.91	21				
3	16QAM	1	14	19.77	19.77	19.75					
3	16QAM	8	0	19.85	19.81	19.59					
3	16QAM	8	4	19.68	19.80	19.70					
3	16QAM	8	7	19.69	19.58	19.63	21				
3	16QAM	15	0	19.66	19.69	19.63					
3	64QAM	1	0	19.87	19.85	19.79					
3	64QAM	1	8	19.74	19.87	19.87					
3	64QAM	1	14	19.65	19.78	19.76	21				
3	64QAM	8	0	19.83	19.70	19.74					
3	64QAM	8	4	19.97	19.88	19.83					
3	64QAM	8	7	19.84	19.74	19.77					
3	64QAM	15	0	19.80	19.58	19.75	21				
Channel				19957	20175	20393	Tune-up limit (dBm)				
Frequency (MHz)				1710.7	1732.5	1754.3					
1.4	QPSK	1	0	19.47	19.55	19.46	21				
1.4	QPSK	1	3	19.61	19.60	19.60					
1.4	QPSK	1	5	19.52	19.53	19.49					
1.4	QPSK	3	0	19.57	19.29	19.49					
1.4	QPSK	3	1	19.61	19.61	19.50	21				
1.4	QPSK	3	3	19.57	19.56	19.53					
1.4	QPSK	6	0	19.62	19.65	19.55					
1.4	16QAM	1	0	19.63	19.90	19.81					
1.4	16QAM	1	3	19.93	19.93	19.93	21				
1.4	16QAM	3	0	19.83	19.87	19.84					
1.4	16QAM	3	1	19.70	19.71	19.59					
1.4	16QAM	3	3	19.64	19.64	19.58					
1.4	16QAM	6	0	19.73	19.74	19.66	21				
1.4	16QAM	6	1	19.80	19.74	19.71					
1.4	64QAM	3	0	19.83	19.87	19.81					
1.4	64QAM	3	1	19.76	19.78	19.72					
1.4	64QAM	3	3	19.77	19.80	19.71	21				
1.4	64QAM	3	1	19.82	19.84	19.76					
1.4	64QAM	3	3	19.76	19.77	19.75					
1.4	64QAM	3	5	19.80	19.80	19.69					

Band 5_Ant 1							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 20450	Power Middle Ch. / Freq. 20525	Power High Ch. / Freq. 20600	Tune-up limit (dBm)
Channel				829	836.5	844	22.5
Frequency (MHz)				21.05	21.08	21.10	
10	QPSK	1	0	21.05	21.08	21.10	22.5
10	QPSK	1	25	21.01	21.04	21.05	
10	QPSK	1	49	20.99	21.04	20.99	
10	QPSK	25	0	21.08	21.10	21.11	
10	QPSK	25	12	21.18	21.17	21.12	22.5
10	QPSK	25	25	21.13	21.12	21.14	
10	QPSK	50	0	21.10	21.10	21.02	
10	16QAM	1	0	21.39	21.40	21.45	
10	16QAM	1	25	21.40	21.41	21.43	22.5
10	16QAM	1	49	21.37	21.38	21.37	
10	16QAM	25	0	21.08	21.10	21.10	
10	16QAM	25	12	21.18	21.19	21.12	
10	16QAM	25	25	21.14	21.12	21.13	22.5
10	16QAM	50	0	21.08	21.09	21.01	
10	64QAM	1	0	21.26	21.27	21.31	
10	64QAM	1	25	21.35	21.32	21.37	
10	64QAM	1	49	21.29	21.28	21.26	22
10	64QAM	25	0	21.14	21.14	21.15	
10	64QAM	25	12	21.23	21.23	21.18	
10	64QAM	25	25	21.20	21.17	21.17	
10	64QAM	50	0	21.12	21.12	21.04	22.5
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	22.5
5	QPSK	1	0	20.98	20.99	20.95	
5	QPSK	1	12	21.09	21.12	21.12	22.5
5	QPSK	1	24	21.04	21.03	20.97	
5	QPSK	12	0	21.10	21.07	21.08	
5	QPSK	12	7	21.19	21.18	21.18	
5	QPSK	12	13	21.15	21.16	21.13	22.5
5	QPSK	25	0	21.14	21.15	21.14	
5	16QAM	1	0	21.26	21.30	21.26	
5	16QAM	1	12	21.30	21.37	21.34	
5	16QAM	1	24	21.35	21.35	21.29	22.5
5	16QAM	12	0	21.07	21.09	21.08	
5	16QAM	12	7	21.18	21.17	21.18	
5	16QAM	12	13	21.14	21.16	21.12	
5	16QAM	25	0	21.14	21.15	21.12	22
5	64QAM	1	0	21.22	21.21	21.20	
5	64QAM	1	12	21.26	21.30	21.28	
5	64QAM	1	24	21.25	21.28	21.20	
5	64QAM	12	0	21.15	21.16	21.16	22
5	64QAM	12	7	21.26	21.27	21.25	
5	64QAM	12	13	21.23	21.22	21.20	
5	64QAM	25	0	21.18	21.18	21.16	
Channel				20415	20525	20635	22.5
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	20.98	21.01	21.00	22.5
3	QPSK	1	8	21.11	21.14	21.13	
3	QPSK	1	14	21.04	21.06	21.02	
3	QPSK	8	0	21.08	21.09	21.08	
3	QPSK	8	4	21.18	21.17	21.18	22.5
3	QPSK	8	7	21.14	21.15	21.13	
3	QPSK	15	0	21.15	21.16	21.09	
3	16QAM	1	0	21.32	21.30	21.33	
3	16QAM	1	8	21.30	21.44	21.42	22.5
3	16QAM	1	14	21.36	21.37	21.33	
3	16QAM	8	0	21.13	21.13	21.12	
3	16QAM	8	4	21.23	21.25	21.20	
3	16QAM	8	7	21.19	21.20	21.16	22
3	64QAM	1	0	21.18	21.22	21.21	
3	64QAM	1	8	21.32	21.37	21.33	
3	64QAM	1	14	21.24	21.32	21.24	
3	64QAM	8	0	21.16	21.18	21.18	22
3	64QAM	8	4	21.24	21.25	21.25	
3	64QAM	8	7	21.21	21.25	21.20	
3	64QAM	15	0	21.19	21.18	21.11	
Channel				20407	20525	20643	22.5
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	20.92	20.99	20.97	22.5
1.4	QPSK	1	3	21.05	21.08	21.04	
1.4	QPSK	1	5	20.99	20.98	20.96	
1.4	QPSK	3	0	20.96	21.03	20.95	
1.4	QPSK	3	1	21.02	21.04	20.99	22.5
1.4	QPSK	3	3	20.99	21.01	20.99	
1.4	QPSK	6	0	21.08	21.07	21.04	
1.4	16QAM	1	0	21.21	21.32	21.28	
1.4	16QAM	1	3	21.35	21.37	21.34	22.5
1.4	16QAM	1	5	21.30	21.29	21.23	
1.4	16QAM	3	0	21.08	21.09	21.06	
1.4	16QAM	3	1	21.11	21.12	21.10	
1.4	16QAM	3	3	21.05	21.10	21.04	22.5
1.4	64QAM	6	0	21.14	21.16	21.12	
1.4	64QAM	1	0	21.18	21.22	21.19	
1.4	64QAM	1	3	21.24	21.28	21.21	
1.4	64QAM	1	5	21.19	21.23	21.18	22
1.4	64QAM	3	0	21.19	21.22	21.17	
1.4	64QAM	3	1	21.25	21.28	21.25	
1.4	64QAM	3	3	21.19	21.22	21.18	
1.4	64QAM	6	0	21.10	21.10	21.07	22



Band 7_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				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.80	17.77	17.85	19
20	QPSK	1	49	17.83	17.84	17.89	
20	QPSK	1	99	17.91	17.91	17.96	
20	QPSK	50	0	17.93	17.99	17.97	19
20	QPSK	50	24	18.03	17.99	18.04	
20	QPSK	50	50	18.02	18.04	18.12	
20	QPSK	100	0	17.93	17.86	17.88	19
20	16QAM	1	0	18.15	18.10	18.19	
20	16QAM	1	49	18.21	18.17	18.22	
20	16QAM	1	99	18.25	18.20	18.28	19
20	16QAM	50	0	17.89	17.93	17.95	
20	16QAM	50	24	18.02	17.96	17.99	
20	16QAM	50	50	18.03	18.03	18.07	19
20	16QAM	100	0	17.93	17.82	17.89	
20	64QAM	1	0	18.01	18.00	18.06	
20	64QAM	1	49	18.11	18.12	18.12	19
20	64QAM	1	99	18.14	18.13	18.18	
20	64QAM	50	0	17.96	17.98	17.97	
20	64QAM	50	24	18.03	17.99	18.06	19
20	64QAM	50	50	18.05	18.07	18.09	
20	64QAM	100	0	17.96	17.88	17.93	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.83	17.83	17.92	19
15	QPSK	1	37	17.85	17.88	17.89	
15	QPSK	1	74	17.91	17.94	17.97	
15	QPSK	36	0	17.94	17.93	17.99	19
15	QPSK	36	20	18.01	17.96	18.09	
15	QPSK	36	39	18.05	18.02	18.11	
15	QPSK	75	0	17.95	17.88	17.95	19
15	16QAM	1	0	18.15	18.15	18.17	
15	16QAM	1	37	18.14	18.16	18.18	
15	16QAM	1	74	18.19	18.21	18.24	19
15	16QAM	36	0	17.91	17.92	17.98	
15	16QAM	36	20	18.04	17.95	18.07	
15	16QAM	36	39	18.01	18.02	18.05	19
15	16QAM	75	0	17.96	17.91	17.95	
15	64QAM	1	0	18.08	18.02	18.09	
15	64QAM	1	37	18.10	18.11	18.16	19
15	64QAM	1	74	18.13	18.17	18.23	
15	64QAM	36	0	17.98	17.97	18.00	
15	64QAM	36	20	18.11	18.01	18.06	19
15	64QAM	36	39	18.11	18.09	18.13	
15	64QAM	75	0	18.00	17.93	17.95	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	17.64	17.63	17.65	19
10	QPSK	1	25	17.61	17.66	17.71	
10	QPSK	1	49	17.66	17.71	17.73	
10	QPSK	25	0	17.73	17.74	17.72	19
10	QPSK	25	12	17.78	17.74	17.84	
10	QPSK	25	25	17.80	17.84	17.86	
10	QPSK	50	0	17.71	17.68	17.77	19
10	16QAM	1	0	17.86	18.02	18.01	
10	16QAM	1	25	18.03	18.04	18.04	
10	16QAM	1	49	18.04	18.13	18.11	19
10	16QAM	25	0	17.69	17.72	17.74	
10	16QAM	25	12	17.79	17.74	17.83	
10	16QAM	25	25	17.78	17.82	17.82	19
10	16QAM	50	0	17.69	17.62	17.72	
10	64QAM	1	0	17.83	17.89	17.93	
10	64QAM	1	25	17.99	18.01	18.03	19
10	64QAM	1	49	17.94	18.01	18.00	
10	64QAM	25	0	17.73	17.77	17.76	
10	64QAM	25	12	17.83	17.77	17.85	19
10	64QAM	25	25	17.82	17.84	17.89	
10	64QAM	50	0	17.76	17.67	17.77	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	17.64	17.68	17.75	19
5	QPSK	1	12	17.72	17.80	17.82	
5	QPSK	1	24	17.73	17.76	17.76	
5	QPSK	12	0	17.78	17.74	17.84	19
5	QPSK	12	7	17.82	17.78	17.88	
5	QPSK	12	13	17.79	17.79	17.82	
5	QPSK	25	0	17.76	17.74	17.81	19
5	16QAM	1	0	17.88	18.01	18.12	
5	16QAM	1	12	18.07	18.13	18.17	
5	16QAM	1	24	18.05	18.12	18.13	19
5	16QAM	12	0	17.79	17.76	17.84	
5	16QAM	12	7	17.81	17.81	17.89	
5	16QAM	12	13	17.79	17.81	17.84	19
5	16QAM	25	0	17.75	17.75	17.80	
5	64QAM	1	0	17.95	18.00	18.10	
5	64QAM	1	12	18.02	18.00	18.01	19
5	64QAM	1	24	18.03	18.06	18.05	
5	64QAM	12	0	17.83	17.82	17.88	
5	64QAM	12	7	17.89	17.85	17.92	19
5	64QAM	12	13	17.86	17.86	17.94	
5	64QAM	25	0	17.80	17.78	17.84	

Band 25_Ant 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)				
Channel				20140	20340	20590					
Frequency (MHz)				1860	1880	1905					
20	QPSK	1	0	20.34	20.29	20.35	21.5				
20	QPSK	1	49	20.21	20.26	20.31					
20	QPSK	1	99	20.19	20.23	20.24					
20	QPSK	50	0	20.39	20.33	20.38	21.5				
20	QPSK	50	24	20.35	20.39	20.35					
20	QPSK	50	50	20.31	20.35	20.37					
20	QPSK	100	0	20.28	20.31	20.40	21.5				
20	16QAM	1	0	20.72	20.66	20.75					
20	16QAM	1	49	20.61	20.63	20.68					
20	16QAM	1	99	20.56	20.59	20.60	21.5				
20	16QAM	50	0	20.43	20.33	20.41					
20	16QAM	50	24	20.41	20.41	20.38					
20	16QAM	50	50	20.33	20.37	20.39	21.5				
20	16QAM	100	0	20.30	20.31	20.38					
20	64QAM	1	0	20.63	20.49	20.58					
20	64QAM	1	49	20.46	20.50	20.54	21.5				
20	64QAM	1	99	20.45	20.47	20.47					
20	64QAM	50	0	20.43	20.35	20.41					
20	64QAM	50	24	20.39	20.41	20.39	21				
20	64QAM	50	50	20.33	20.38	20.40					
20	64QAM	100	0	20.31	20.33	20.40					
Channel				26115	26340	26615	Tune-up limit (dBm)				
Frequency (MHz)				1857.5	1880	1907.5					
15	QPSK	1	0	20.11	20.30	20.36	21.5				
15	QPSK	1	37	20.25	20.25	20.29					
15	QPSK	1	74	20.19	20.26	20.29					
15	QPSK	36	0	20.33	20.24	20.29	21.5				
15	QPSK	36	20	20.39	20.39	20.46					
15	QPSK	36	39	20.32	20.34	20.40					
15	QPSK	75	0	20.34	20.34	20.40	21.5				
15	16QAM	1	0	20.41	20.63	20.69					
15	16QAM	1	37	20.64	20.65	20.64					
15	16QAM	1	74	20.43	20.62	20.59	21.5				
15	16QAM	36	0	20.33	20.25	20.30					
15	16QAM	36	20	20.41	20.43	20.45					
15	16QAM	36	39	20.35	20.37	20.38	21				
15	16QAM	75	0	20.34	20.36	20.40					
15	64QAM	1	0	20.37	20.51	20.54					
15	64QAM	1	37	20.50	20.52	20.53	21.5				
15	64QAM	1	74	20.32	20.47	20.49					
15	64QAM	36	0	20.37	20.29	20.34					
15	64QAM	36	20	20.43	20.44	20.48	21				
15	64QAM	36	39	20.37	20.40	20.42					
15	64QAM	75	0	20.36	20.35	20.40					
Channel				26090	26340	26640	Tune-up limit (dBm)				
Frequency (MHz)				1855	1880	1910					
10	QPSK	1	0	19.83	19.79	20.07	21.5				
10	QPSK	1	25	20.04	20.03	20.04					
10	QPSK	1	49	19.77	19.80	20.06					
10	QPSK	25	0	20.09	19.98	20.04	21.5				
10	QPSK	25	12	20.17	20.16	20.19					
10	QPSK	25	25	20.10	20.11	20.13					
10	QPSK	50	0	20.12	20.11	20.15	21.5				
10	16QAM	1	0	20.19	20.18	20.46					
10	16QAM	1	25	20.30	20.37	20.43					
10	16QAM	1	49	20.12	20.18	20.39	21.5				
10	16QAM	25	0	20.11	20.01	20.04					
10	16QAM	25	12	20.19	20.19	20.21					
10	16QAM	50	0	20.12	20.12	20.15	21.5				
10	64QAM	1	0	20.13	20.00	20.26					
10	64QAM	1	25	20.26	20.31	20.29					
10	64QAM	1	49	20.04	20.03	20.30	21				
10	64QAM	25	0	20.12	20.01	20.06					
10	64QAM	25	12	20.23	20.21	20.23					
10	64QAM	25	25	20.13	20.14	20.16	21.5				
10	64QAM	50	0	20.14	20.10	20.16					
Channel				26095	26340	26675	Tune-up limit (dBm)				
Frequency (MHz)				1852.5	1880	1912.5					
5	QPSK	1	0	20.07	20.00	20.04	21.5				
5	QPSK	1	12	20.10	20.09	20.11					
5	QPSK	1	24	20.07	20.11	20.09					
5	QPSK	12	0	20.16	20.08	20.10	21.5				
5	QPSK	12	7	20.21	20.18	20.22					
5	QPSK	12	13	20.20	20.18	20.20					
5	QPSK	25	0	20.16	20.14	20.18	21.5				
5	16QAM	1	0	20.41	20.29	20.39					
5	16QAM	1	12	20.30	20.35	20.40					
5	16QAM	1	24	20.41	20.39	20.41	21.5				
5	16QAM	12	0	20.23	20.08	20.13					
5	16QAM	12	7	20.23	20.19	20.22					
5	16QAM	12	13	20.19	20.17	20.22	21.5				
5	16QAM	25	0	20.19	20.19	20.19					
5	64QAM	1	0	20.32	20.23	20.32					
5	64QAM	1	12	20.31	20.25	20.26	21.5				
5	64QAM	1	24	20.33	20.31	20.35					
5	64QAM	12	0	20.24	20.14	20.14					
5	64QAM	12	7	20.26	20.23	20.23	21				
5	64QAM	12	13	20.23	20.24	20.23					
5	64QAM	25	0	20.21	20.19	20.20					
Channel				26055	26340	26615	Tune-up limit (dBm)				
Frequency (MHz)				1850.7	1880	1914.3					
1.4	QPSK	1	0	20.02	19.98	19.92	21.5				
1.4	QPSK	1	3	20.07	20.03	20.06					
1.4	QPSK	1	5	20.02	19.98	20.03					
1.4	QPSK	3	0	20.01	19.96	19.93	21.5				
1.4	QPSK	3	1	20.05	20.02	19.96					
1.4	QPSK	3	3	20.02	19.99	20.02					
1.4	QPSK	6	0	20.08	20.03	20.04	21.5				
1.4	16QAM	1	0	20.33	20.27	20.26					
1.4	16QAM	1	2	20.39	20.36	20.42					
1.4	16QAM	1	5	20.32	20.29	20.37	21.5				
1.4	16QAM	3	0	20.09	20.07	20.05					
1.4	16QAM	3	1	20.15	20.14	20.09					
1.4	16QAM	3	3	20.09	20.07	20.11	21.5				
1.4	16QAM	6	0	20.16	20.16	20.11					
1.4	64QAM	1	0	20.26	20.24	20.14					
1.4	64QAM	1	3	20.29	20.28	20.29	21.5				
1.4	64QAM	1	5	20.24	20.22	20.21					
1.4	64QAM	3	0	20.22	20.20	20.16					
1.4	64QAM	3	1	20.26	20.23	20.19	21.5				
1.4	64QAM	3	2	20.24	20.22	20.22					
1.4	64QAM	6	0	20.09	20.06	20.05					



Band 26_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power High Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)		
Channel				26765	26865	26965			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	0	21.29	21.27	21.25	22.5		
15	QPSK	1	37	21.17	21.26	21.24			
15	QPSK	1	74	21.19	21.25	21.13			
15	QPSK	36	0	21.24	21.24	21.21	22.5		
15	QPSK	36	20	21.29	21.30	21.34			
15	QPSK	36	39	21.29	21.24	21.26			
15	QPSK	75	0	21.25	21.26	21.20	22		
15	16QAM	1	0	21.60	21.58	21.55			
15	16QAM	1	37	21.44	21.58	21.49			
15	16QAM	1	74	21.47	21.55	21.42	22		
15	16QAM	36	0	21.21	21.18	21.21			
15	16QAM	36	20	21.34	21.19	21.32			
15	16QAM	36	39	21.29	21.30	21.24	21		
15	16QAM	75	0	21.28	21.23	21.22			
15	64QAM	1	0	21.47	21.37	21.53			
15	64QAM	1	37	21.40	21.46	21.56	22		
15	64QAM	1	74	21.46	21.43	21.31			
15	64QAM	36	0	20.28	20.28	20.25			
15	64QAM	36	20	20.34	20.26	20.37	21		
15	64QAM	36	39	20.25	20.31	20.28			
15	64QAM	75	0	20.29	20.22	20.11			
Channel				26740	26865	26990	Tune-up limit (dBm)		
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	21.03	21.06	21.05	22.5		
10	QPSK	1	25	20.93	21.00	20.96			
10	QPSK	1	49	20.95	20.95	20.92			
10	QPSK	25	0	20.90	20.89	20.89	22.5		
10	QPSK	25	12	21.08	21.09	21.04			
10	QPSK	25	25	21.01	21.11	20.99			
10	QPSK	50	0	21.01	20.98	20.94	22.5		
10	16QAM	1	0	21.36	21.44	21.39			
10	16QAM	1	25	21.35	21.31	21.38			
10	16QAM	1	49	21.31	21.38	21.30	22		
10	16QAM	25	0	20.94	20.92	20.94			
10	16QAM	25	12	21.12	21.03	21.10			
10	16QAM	25	25	20.98	21.00	21.08	21		
10	16QAM	50	0	21.01	20.99	20.97			
10	64QAM	1	0	21.34	21.25	21.22			
10	64QAM	1	25	21.18	21.35	21.19	22		
10	64QAM	1	49	21.14	21.26	21.06			
10	64QAM	25	0	19.95	19.95	19.99			
10	64QAM	25	12	20.17	20.08	20.09	21		
10	64QAM	25	25	20.01	20.10	20.01			
10	64QAM	50	0	20.04	19.95	19.99			
Channel				26715	26865	27015	Tune-up limit (dBm)		
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	20.88	21.03	21.03	22.5		
5	QPSK	1	12	21.09	21.09	21.05			
5	QPSK	1	24	20.97	21.05	20.95			
5	QPSK	12	0	21.04	21.03	21.00	22.5		
5	QPSK	12	7	21.17	21.17	21.11			
5	QPSK	12	13	21.11	21.13	21.02			
5	QPSK	25	0	21.09	21.10	20.99	22.5		
5	16QAM	1	0	21.16	21.30	21.26			
5	16QAM	1	12	21.36	21.29	21.29			
5	16QAM	1	24	21.28	21.40	21.28	22		
5	16QAM	12	0	21.05	21.02	21.06			
5	16QAM	12	7	21.15	21.16	21.14			
5	16QAM	12	13	21.11	21.09	21.06	21		
5	16QAM	25	0	21.12	21.03	21.04			
5	64QAM	1	0	21.18	21.22	21.15			
5	64QAM	1	12	21.19	21.22	21.22	22		
5	64QAM	1	24	21.21	21.30	21.18			
5	64QAM	12	0	20.09	20.08	20.11			
5	64QAM	12	7	20.29	20.19	20.16	21		
5	64QAM	12	13	20.14	20.11	20.10			
5	64QAM	25	0	20.11	20.05	20.05			
Channel				26705	26865	27025	Tune-up limit (dBm)		
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	20.95	21.00	20.98	22.5		
3	QPSK	1	8	21.06	21.09	21.03			
3	QPSK	1	14	20.97	21.07	20.95			
3	QPSK	8	0	21.06	21.09	21.02	22.5		
3	QPSK	8	4	21.11	21.14	21.02			
3	QPSK	8	7	21.09	21.15	21.02			
3	QPSK	15	0	21.05	21.05	21.04	22.5		
3	16QAM	1	0	21.26	21.31	21.33			
3	16QAM	1	8	21.37	21.36	21.33			
3	16QAM	1	14	21.23	21.38	21.25	22		
3	16QAM	8	0	21.05	21.07	21.12			
3	16QAM	8	4	21.19	21.16	21.15			
3	16QAM	8	7	21.14	21.13	21.07	21		
3	16QAM	15	0	21.14	21.05	21.05			
3	64QAM	1	0	21.07	21.42	21.23			
3	64QAM	1	8	21.27	21.32	21.22	22		
3	64QAM	1	14	21.20	21.27	21.17			
3	64QAM	8	0	20.06	20.11	20.11			
3	64QAM	8	4	20.29	20.21	20.12	21		
3	64QAM	8	7	20.15	20.12	20.13			
3	64QAM	15	0	20.10	20.06	20.06			
Channel				26697	26865	27033	Tune-up limit (dBm)		
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	20.87	20.92	20.81	22.5		
1.4	QPSK	1	3	21.01	21.04	20.94			
1.4	QPSK	1	5	20.97	20.96	20.89			
1.4	QPSK	3	0	20.93	20.83	20.94	22.5		
1.4	QPSK	3	1	20.95	20.95	20.89			
1.4	QPSK	3	3	20.96	20.96	20.86			
1.4	QPSK	6	0	21.04	20.99	20.95	22.5		
1.4	16QAM	1	0	21.13	21.19	21.20			
1.4	16QAM	1	3	21.36	21.32	21.19			
1.4	16QAM	1	5	21.24	21.28	21.12	22.5		
1.4	16QAM	3	0	21.00	21.02	20.91			
1.4	16QAM	3	1	21.13	20.99	21.04			
1.4	16QAM	3	3	20.96	21.02	20.90	22		
1.4	16QAM	6	0	21.09	21.10	21.09			
1.4	64QAM	1	0	21.12	21.16	21.08			
1.4	64QAM	1	3	21.24	21.23	21.03	22		
1.4	64QAM	1	5	21.17	21.26	21.06			
1.4	64QAM	3	0	21.09	21.05	21.07			
1.4	64QAM	3	1	21.16	21.15	21.07	21		
1.4	64QAM	3	3	21.15	21.15	21.05			
1.4	64QAM	6	0	20.00	19.96	20.01			

Band 66_Ant 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 13072	Power Middle Ch. / Freq. 13232	Power High Ch. / Freq. 13352	Tune-up limit (dBm)				
Channel				13072	13232	13352					
Frequency (MHz)				1717.5	1745	1772.5					
20	QPSK	1	0	19.06	19.15	19.36	20.5				
20	QPSK	1	49	19.26	19.25	19.24					
20	QPSK	1	99	18.95	18.97	19.17					
20	QPSK	50	0	19.35	19.34	19.34	20.5				
20	QPSK	50	24	19.44	19.37	19.45					
20	QPSK	50	50	19.29	19.31	19.31					
20	QPSK	100	0	19.35	19.38	19.37	20.5				
20	16QAM	1	0	19.40	19.42	19.77					
20	16QAM	1	49	19.62	19.66	19.66					
20	16QAM	1	99	19.34	19.33	19.54	20.5				
20	16QAM	50	0	19.32	19.35	19.34					
20	16QAM	50	24	19.40	19.36	19.46					
20	16QAM	50	50	19.28	19.31	19.32	20.5				
20	16QAM	100	0	19.33	19.36	19.37					
20	64QAM	1	0	19.23	19.26	19.58	20.5				
20	64QAM	1	49	19.47	19.50	19.50					
20	64QAM	1	99	19.18	19.21	19.40					
20	64QAM	50	0	19.34	19.35	19.38	20.5				
20	64QAM	50	24	19.47	19.38	19.48					
20	64QAM	50	50	19.32	19.34	19.33					
20	64QAM	100	0	19.36	19.38	19.39	20.5				
Channel				130047	132322	132697					
Frequency (MHz)				1717.5	1745	1772.5	Tune-up limit (dBm)				
15	QPSK	1	0	19.19	19.22	19.36	20.5				
15	QPSK	1	37	19.23	19.26	19.28					
15	QPSK	1	74	19.09	19.11	19.22					
15	QPSK	36	0	19.36	19.36	19.38	20.5				
15	QPSK	36	20	19.43	19.41	19.34					
15	QPSK	36	39	19.33	19.34	19.35					
15	QPSK	75	0	19.36	19.40	19.32	20.5				
15	16QAM	1	0	19.50	19.53	19.70					
15	16QAM	1	37	19.60	19.64	19.64					
15	16QAM	1	74	19.43	19.42	19.55	20.5				
15	16QAM	36	0	19.38	19.37	19.39					
15	16QAM	36	20	19.40	19.43	19.34					
15	16QAM	36	39	19.31	19.34	19.34	20.5				
15	16QAM	75	0	19.36	19.37	19.32					
15	64QAM	1	0	19.36	19.42	19.56	20.5				
15	64QAM	1	37	19.52	19.52	19.54					
15	64QAM	1	74	19.33	19.31	19.42					
15	64QAM	36	0	19.40	19.40	19.43	20.5				
15	64QAM	36	20	19.47	19.47	19.40					
15	64QAM	36	39	19.35	19.38	19.38					
15	64QAM	75	0	19.37	19.40	19.33	20.5				
Channel				132022	132322	132622					
Frequency (MHz)				1715	1745	1775	Tune-up limit (dBm)				
10	QPSK	1	0	18.64	18.88	18.88	20.5				
10	QPSK	1	25	19.09	19.06	19.09					
10	QPSK	1	49	18.63	18.65	18.85					
10	QPSK	25	0	19.09	19.09	19.11	20.5				
10	QPSK	25	12	19.21	19.15	19.24					
10	QPSK	25	25	19.10	19.13	19.12					
10	QPSK	50	0	19.16	19.18	19.18	20.5				
10	16QAM	1	0	19.21	19.20	19.23					
10	16QAM	1	25	19.45	19.48	19.47					
10	16QAM	1	49	19.22	19.22	19.23	20.5				
10	16QAM	25	0	19.13	19.11	19.14					
10	16QAM	25	12	19.22	19.18	19.27					
10	16QAM	25	25	19.12	19.09	19.13	20.5				
10	16QAM	50	0	19.16	19.19	19.20					
10	64QAM	1	0	19.06	19.08	19.11					
10	64QAM	1	25	19.39	19.39	19.42	20.5				
10	64QAM	1	49	19.11	19.14	19.12					
10	64QAM	25	0	19.13	19.15	19.17					
10	64QAM	25	12	19.26	19.20	19.32	20.5				
10	64QAM	25	25	19.15	19.15	19.17					
10	64QAM	50	0	19.26	19.21	19.25					
Channel				131997	132322	132647	Tune-up limit (dBm)				
Frequency (MHz)				1712.5	1745	1777.5					
5	QPSK	1	0	19.06	19.07	19.12	20.5				
5	QPSK	1	12	19.13	19.15	19.15					
5	QPSK	1	24	19.03	19.03	19.07					
5	QPSK	12	0	19.25	19.18	19.19	20.5				
5	QPSK	12	7	19.27	19.23	19.18					
5	QPSK	12	13	19.17	19.17	19.17					
5	QPSK	25	0	19.20	19.22	19.18	20.5				
5	16QAM	1	0	19.40	19.39	19.41					
5	16QAM	1	12	19.36	19.40	19.45					
5	16QAM	1	24	19.36	19.37	19.36	20.5				
5	16QAM	12	0	19.27	19.22	19.23					
5	16QAM	12	7	19.25	19.27	19.20					
5	16QAM	12	13	19.17	19.16	19.20	20.5				
5	16QAM	25	0	19.23	19.22	19.20					
5	64QAM	1	0	19.39	19.36	19.40					
5	64QAM	1	12	19.36	19.39	19.38	20.5				
5	64QAM	1	24	19.24	19.31	19.28					
5	64QAM	12	0	19.31	19.30	19.29					
5	64QAM	12	7	19.32	19.32	19.28	20.5				
5	64QAM	12	13	19.23	19.26	19.27					
5	64QAM	25	0	19.23	19.21	19.22					
Channel				131987	132322	132657	Tune-up limit (dBm)				
Frequency (MHz)				1711.5	1745	1778.5					
3	QPSK	1	0	19.04	19.07	19.11	20.5				
3	QPSK	1	8	19.16	19.08	19.16					
3	QPSK	1	14	18.95	19.01	19.11					
3	QPSK	8	0	19.33	19.18	19.23	20.5				
3	QPSK	8	4	19.17	19.16	19.09					
3	QPSK	8	7	19.11	19.24	19.17					
3	QPSK	15	0	19.30	19.17	19.17	20.5				
3	16QAM	1	0	19.40	19.37	19.45					
3	16QAM	1	8	19.30	19.50	19.38					
3	16QAM	1	14	19.46	19.38	19.27	20.5				
3	16QAM	8	0	19.17	19.14	19.30					
3	16QAM	8	4	19.28	19.33	19.10					
3	16QAM	8	7	19.14	19.14	19.11	20.5				
3	16QAM	15	0	19.21	19.30	19.23					
3	64QAM	1	0	19.32	19.31	19.33					
3	64QAM	1	8	19.29	19.39	19.46	20.5				
3	64QAM	1	14	19.31	19.24	19.30					
3	64QAM	8	0	19.22	19.25	19.34					
3	64QAM	8	4	19.41	19.24	19.22	20.5				
3	64QAM	8	7	19.15	19.21	19.29					
3	64QAM	15	0	19.13	19.15	19.27					
Channel				131976	132322	132665	Tune-up limit (dBm)				
Frequency (MHz)				1710.7	1745	1779.3					
1.4	QPSK	1	0	18.99	19.05	19.07	20.5				
1.4	QPSK	1	3	19.13	19.10	19.15					
1.4	QPSK	1	5	19.05	19.06	19.03					
1.4	QPSK	3	0	19.06	19.07	19.07	20.5				
1.4	QPSK	3	1	19.09	19.10	19.12					
1.4	QPSK	3	3	19.05	19.02	19.06	20.5				
1.4	16QAM	1	0	19.29	19.39	19.42					
1.4	16QAM	1	3	19.41	19.43	19.45					
1.4	16QAM	5	0	19.33	19.33	19.35	20.5				
1.4	16QAM	3	0	19.15	19.18	19.19					
1.4	16QAM	3	1	19.21	19.20	19.20					
1.4	16QAM	3	1	19.09	19.12	19.14	20.5				
1.4	16QAM	6	0	19.22	19.24	19.24					
1.4	16QAM	3	1	19.35	19.36	19.38					
1.4	64QAM	3	3	19.31	19.37	19.39	20.5				
1.4	64QAM	1	5	19.21	19.31	19.29					
1.4	64QAM	3	0	19.28	19.29	19.32					
1.4	64QAM	3	1	19.31	19.30	19.37	20.5				
1.4	64QAM	3	3	19.21	19.29	19.28					
1.4	64QAM	3	5	19.33	19.33	19.33					

Band 2_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch. / Freq	Power Level Ch. / Freq	Power Level Ch. / Freq	Tune-up limit (dBm)		
Channel				18700	18900	19100			
Frequency (MHz)				1867.5	18800	1902.5			
20	QPSK	1	0	15.54	15.51	15.53	16.5		
20	QPSK	1	49	15.44	15.44	15.45			
20	QPSK	1	99	15.38	15.42	15.37			
20	QPSK	50	0	15.54	15.50	15.48			
20	QPSK	50	24	15.59	15.65	15.54			
20	QPSK	50	50	15.52	15.58	15.58	16.5		
20	QPSK	100	0	15.53	15.56	15.49			
20	16QAM	1	0	15.91	15.84	15.88			
20	16QAM	1	49	15.80	15.82	15.84			
20	16QAM	1	99	15.72	15.77	15.76			
20	16QAM	50	0	15.55	15.46	15.46	16.5		
20	16QAM	50	24	15.61	15.63	15.54			
20	16QAM	50	50	15.55	15.57	15.56			
20	16QAM	100	0	15.54	15.53	15.49			
20	64QAM	1	0	15.84	15.66	15.75			
20	64QAM	1	49	15.69	15.67	15.69	16.5		
20	64QAM	1	99	15.63	15.64	15.64			
20	64QAM	50	0	15.57	15.47	15.50			
20	64QAM	50	24	15.63	15.62	15.56			
20	64QAM	50	50	15.58	15.57	15.57			
20	64QAM	100	0	15.56	15.55	15.51	16.5		
Channel				1867.5	18900	19125			
Frequency (MHz)				1857.5	1880	1902.5			
15	QPSK	1	0	15.43	15.54	15.55	16.5		
15	QPSK	1	37	15.48	15.50	15.48			
15	QPSK	1	74	15.38	15.50	15.46			
15	QPSK	36	0	15.61	15.51	15.52			
15	QPSK	36	20	15.63	15.66	15.63			
15	QPSK	36	39	15.60	15.63	15.61	16.5		
15	QPSK	75	0	15.59	15.60	15.52			
15	16QAM	1	0	15.76	15.84	15.84			
15	16QAM	1	37	15.84	15.82	15.81			
15	16QAM	1	74	15.69	15.80	15.80			
15	16QAM	36	0	15.61	15.45	15.49	16.5		
15	16QAM	36	20	15.65	15.64	15.63			
15	16QAM	36	39	15.60	15.60	15.60			
15	16QAM	75	0	15.61	15.61	15.51			
15	64QAM	1	0	15.70	15.71	15.72			
15	64QAM	1	37	15.76	15.74	15.78	16.5		
15	64QAM	1	74	15.61	15.70	15.67			
15	64QAM	36	0	15.67	15.53	15.54			
15	64QAM	36	20	15.65	15.66	15.69			
15	64QAM	36	39	15.63	15.63	15.67			
15	64QAM	75	0	15.62	15.60	15.50	16.5		
Channel				18650 <th>18900</th> <th>19150</th> <td colspan="2"></td>	18900	19150			
Frequency (MHz)				1855 <th>1880</th> <th>1905</th> <td colspan="2"></td>	1880	1905			
10	QPSK	1	0	15.14	15.03	15.38	16.5		
10	QPSK	1	25	15.38	15.33	15.35			
10	QPSK	1	49	15.10	15.11	15.30			
10	QPSK	25	0	15.46	15.32	15.33			
10	QPSK	25	12	15.50	15.47	15.40			
10	QPSK	25	25	15.40	15.37	15.35	16.5		
10	QPSK	50	0	15.42	15.41	15.31			
10	16QAM	1	0	15.46	15.39	15.75			
10	16QAM	1	25	15.76	15.70	15.72			
10	16QAM	1	49	15.46	15.44	15.66			
10	16QAM	25	0	15.42	15.31	15.31	16.5		
10	16QAM	25	12	15.52	15.48	15.38			
10	16QAM	25	25	15.36	15.37	15.36			
10	16QAM	50	0	15.38	15.39	15.26			
10	64QAM	1	0	15.36	15.22	15.62			
10	64QAM	1	25	15.68	15.66	15.65	16.5		
10	64QAM	1	49	15.37	15.34	15.55			
10	64QAM	25	0	15.44	15.32	15.36			
10	64QAM	25	12	15.55	15.52	15.44			
10	64QAM	25	25	15.40	15.39	15.45			
10	64QAM	50	0	15.44	15.40	15.33	16.5		
Channel				18625 <th>18900</th> <th>19175</th> <td colspan="2"></td>	18900	19175			
Frequency (MHz)				1852.5 <th>1880</th> <th>1907.5</th> <td colspan="2"></td>	1880	1907.5			
5	QPSK	1	0	15.40	15.29	15.27	16.5		
5	QPSK	1	12	15.48	15.42	15.40			
5	QPSK	1	24	15.31	15.26	15.21			
5	QPSK	12	0	15.55	15.42	15.42			
5	QPSK	12	7	15.53	15.50	15.43			
5	QPSK	12	13	15.48	15.41	15.37	16.5		
5	QPSK	25	0	15.51	15.47	15.37			
5	16QAM	1	0	15.74	15.62	15.58			
5	16QAM	1	12	15.77	15.65	15.62			
5	16QAM	1	24	15.64	15.57	15.55			
5	16QAM	12	0	15.55	15.44	15.42	16.5		
5	16QAM	12	7	15.57	15.47	15.42			
5	16QAM	12	13	15.42	15.42	15.38			
5	16QAM	25	0	15.48	15.47	15.37			
5	64QAM	1	0	15.65	15.53	15.53			
5	64QAM	1	12	15.62	15.58	15.56	16.5		
5	64QAM	1	24	15.49	15.47	15.46			
5	64QAM	12	0	15.61	15.49	15.51			
5	64QAM	12	7	15.61	15.53	15.47			
5	64QAM	12	13	15.50	15.45	15.45			
5	64QAM	25	0	15.53	15.43	15.40	16.5		
Channel				18615 <th>18900</th> <th>19185</th> <td colspan="2"></td>	18900	19185			
Frequency (MHz)				1851.5 <th>1880</th> <th>1908.5</th> <td colspan="2"></td>	1880	1908.5			
3	QPSK	1	0	15.49	15.35	15.40	16.5		
3	QPSK	1	8	15.50	15.44	15.42			
3	QPSK	1	14	15.46	15.33	15.28			
3	QPSK	8	0	15.58	15.43	15.48			
3	QPSK	8	4	15.58	15.47	15.52			
3	QPSK	8	7	15.46	15.44	15.42	16.5		
3	QPSK	15	0	15.54	15.45	15.46			
3	16QAM	1	0	15.81	15.67	15.71			
3	16QAM	1	8	15.81	15.72	15.70			
3	16QAM	1	14	15.70	15.61	15.57			
3	16QAM	8	0	15.59	15.47	15.48	16.5		
3	16QAM	8	4	15.63	15.52	15.53			
3	16QAM	8	7	15.52	15.48	15.43			
3	16QAM	15	0	15.57	15.46	15.46			
3	64QAM	1	0	15.72	15.59	15.65			
3	64QAM	1	8	15.72	15.66	15.66	16.5		
3	64QAM	1	14	15.59	15.51	15.51			
3	64QAM	8	0	15.60	15.49	15.54			
3	64QAM	8	4	15.62	15.56	15.56			
3	64QAM	8	7	15.56	15.50	15.49			
3	64QAM	15	0	15.53	15.49	15.50	16.5		
Channel				18607 <th>18900</th> <th>19193</th> <td colspan="2"></td>	18900	19193			
Frequency (MHz)				1850.7 <th>1880</th> <th>1909.3</th> <td colspan="2"></td>	1880	1909.3			
1.4	QPSK	1	0	15.35	15.32	15.31	16.5		
1.4	QPSK	1	3	15.38	15.38	15.33			
1.4	QPSK	1	5	15.25	15.27	15.23			
1.4	QPSK	3	0	15.31	15.33	15.29			
1.4	QPSK	3	1	15.36	15.38	15.32			
1.4	QPSK	3	3	15.34	15.32	15.32	16.5		
1.4	QPSK	6	0	15.42	15.42	15.36			
1.4	16QAM	1	0	15.62	15.64	15.58			
1.4	16QAM	3	0	15.73	15.68	15.67			
1.4	16QAM	5	0	15.55	15.58	15.53			
1.4	16QAM	3	1	15.45	15.46	15.43	16.5		
1.4	16QAM	3	3	15.38	15.36	15.30			
1.4	16QAM	6	0	15.47	15.47	15.48			
1.4	16QAM	3	5	15.57	15.57	15.55			
1.4	16QAM	3	5	15.56	15.57	15.55			
1.4	16QAM	3	5	15.48	15.49	15.44	16.5		
1.4	16QAM	3	1	15.54	15.53	15.52			
1.4	16QAM	3	1	15.54	15.58	15.54			
1.4	16QAM	3	3	15.49	15.52	15.48			
1.4	16QAM	3	3	15.43	15.43	15.43			

Band 4_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				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745			
20	QPSK	1	0	15.36	15.34	15.36	16.5		
20	QPSK	1	49	15.50	15.51	15.53			
20	QPSK	1	99	15.24	15.22	15.21			
20	QPSK	50	0	15.58	15.55	15.57			
20	QPSK	50	24	15.70	15.62	15.61	16.5		
20	QPSK	50	50	15.56	15.58	15.56			
20	QPSK	100	0	15.60	15.47	15.50			
20	16QAM	1	0	15.71	15.67	15.71	16.5		
20	16QAM	1	49	15.97	15.99	15.92			
20	16QAM	1	99	15.80	15.61	15.58			
20	16QAM	50	0	15.58	15.58	15.55			
20	16QAM	50	24	15.71	15.62	15.64	16.5		
20	16QAM	50	50	15.60	15.59	15.62			
20	16QAM	100	0	15.62	15.53	15.51			
20	64QAM	1	0	15.55	15.53	15.48	16.5		
20	64QAM	1	49	15.89	15.80	15.76			
20	64QAM	1	99	15.53	15.46	15.44			
20	64QAM	50	0	15.61	15.60	15.58			
20	64QAM	50	24	15.73	15.64	15.65	16.5		
20	64QAM	50	50	15.63	15.61	15.62			
20	64QAM	100	0	15.64	15.56	15.56			
Channel				20025	20175	20325	Tune-up limit (dBm)		
Frequency (MHz)				1717.5	1732.5	1747.5			
15	QPSK	1	0	15.43	15.43	15.43	16.5		
15	QPSK	1	37	15.52	15.53	15.53			
15	QPSK	1	74	15.41	15.38	15.40			
15	QPSK	36	0	15.54	15.58	15.55			
15	QPSK	36	20	15.69	15.62	15.70	16.5		
15	QPSK	36	39	15.63	15.63	15.62			
15	QPSK	75	0	15.63	15.56	15.63			
15	16QAM	1	0	15.80	15.80	15.79			
15	16QAM	1	37	15.96	15.91	15.94	16.5		
15	16QAM	1	74	15.78	15.78	15.77			
15	16QAM	36	0	15.58	15.59	15.60			
15	16QAM	36	20	15.70	15.61	15.69			
15	16QAM	36	39	15.65	15.65	15.65	16.5		
15	16QAM	75	0	15.66	15.60	15.65			
15	64QAM	1	0	15.85	15.85	15.82			
15	64QAM	1	37	15.81	15.82	15.82			
15	64QAM	1	74	15.66	15.66	15.65	16.5		
15	64QAM	36	0	15.63	15.63	15.64			
15	64QAM	36	20	15.76	15.65	15.75			
15	64QAM	36	39	15.60	15.68	15.68			
15	64QAM	75	0	15.68	15.61	15.67	Tune-up limit (dBm)		
Channel				20000	20175	20350			
Frequency (MHz)				1715	1732.5	1750			
10	QPSK	1	0	15.11	15.13	15.16	16.5		
10	QPSK	1	25	15.39	15.40	15.39			
10	QPSK	1	49	15.09	15.08	15.08			
10	QPSK	25	0	15.36	15.36	15.36			
10	QPSK	25	12	15.51	15.44	15.43	16.5		
10	QPSK	25	25	15.38	15.38	15.40			
10	QPSK	50	0	15.47	15.35	15.35			
10	16QAM	1	0	15.54	15.52	15.48			
10	16QAM	1	25	15.70	15.77	15.78	16.5		
10	16QAM	1	49	15.46	15.50	15.45			
10	16QAM	25	0	15.42	15.37	15.38			
10	16QAM	25	12	15.55	15.46	15.46			
10	16QAM	25	25	15.39	15.39	15.37	16.5		
10	16QAM	50	0	15.45	15.36	15.38			
10	64QAM	1	0	15.37	15.38	15.34			
10	64QAM	1	25	15.74	15.69	15.71			
10	64QAM	1	49	15.37	15.37	15.37	16.5		
10	64QAM	25	0	15.41	15.41	15.41			
10	64QAM	25	12	15.58	15.51	15.50			
10	64QAM	25	25	15.43	15.43	15.42			
10	64QAM	50	0	15.47	15.39	15.37	Tune-up limit (dBm)		
Channel				19975	20175	20375			
Frequency (MHz)				1712.5	1732.5	1752.5			
5	QPSK	1	0	15.34	15.36	15.35	16.5		
5	QPSK	1	12	15.45	15.45	15.46			
5	QPSK	1	24	15.31	15.30	15.32			
5	QPSK	12	0	15.55	15.48	15.48			
5	QPSK	12	7	15.55	15.57	15.54	16.5		
5	QPSK	12	13	15.49	15.50	15.46			
5	QPSK	25	0	15.51	15.41	15.49			
5	16QAM	1	0	15.69	15.68	15.66			
5	16QAM	1	12	15.71	15.73	15.66	16.5		
5	16QAM	1	24	15.63	15.64	15.60			
5	16QAM	12	0	15.58	15.54	15.48			
5	16QAM	12	7	15.59	15.57	15.54			
5	16QAM	12	13	15.51	15.48	15.50	16.5		
5	16QAM	25	0	15.56	15.47	15.52			
5	64QAM	1	0	15.72	15.64	15.55			
5	64QAM	1	12	15.76	15.68	15.61			
5	64QAM	1	24	15.54	15.55	15.51	16.5		
5	64QAM	12	0	15.64	15.58	15.54			
5	64QAM	12	7	15.64	15.64	15.58			
5	64QAM	12	13	15.57	15.56	15.53			
5	64QAM	25	0	15.52	15.46	15.51	Tune-up limit (dBm)		
Channel				19965	20175	20385			
Frequency (MHz)				1711.5	1732.5	1753.5			
3	QPSK	1	0	15.41	15.44	15.43	16.5		
3	QPSK	1	8	15.51	15.51	15.48			
3	QPSK	1	14	15.40	15.36	15.40			
3	QPSK	8	0	15.55	15.50	15.47			
3	QPSK	8	4	15.59	15.58	15.57	16.5		
3	QPSK	8	7	15.50	15.51	15.50			
3	QPSK	15	0	15.52	15.45	15.52			
3	16QAM	1	0	15.74	15.75	15.70			
3	16QAM	1	8	15.85	15.80	15.76	16.5		
3	16QAM	1	14	15.73	15.72	15.69			
3	16QAM	8	0	15.64	15.56	15.53			
3	16QAM	8	4	15.63	15.63	15.60			
3	16QAM	8	7	15.57	15.60	15.56	16.5		
3	16QAM	15	0	15.60	15.50	15.57			
3	64QAM	1	0	15.74	15.70	15.63			
3	64QAM	1	8	15.82	15.80	15.72			
3	64QAM	1	14	15.68	15.70	15.59	16.5		
3	64QAM	8	0	15.64	15.56	15.55			
3	64QAM	8	4	15.63	15.65	15.62			
3	64QAM	8	7	15.57	15.57	15.57			
3	64QAM	15	0	15.55	15.51	15.55	Tune-up limit (dBm)		
Channel				19957	20175	20393			
Frequency (MHz)				1710.7	1732.5	1754.3			
1.4	QPSK	1	0	15.30	15.38	15.30	16.5		
1.4	QPSK	1	3	15.40	15.43	15.42			
1.4	QPSK	1	5	15.31	15.33	15.33			
1.4	QPSK	3	0	15.41	15.37	15.32			
1.4	QPSK	3	1	15.41	15.42	15.29	16.5		
1.4	QPSK	6	0	15.44	15.44	15.38	16.5		
1.4	16QAM	1	0	15.64	15.71	15.63			
1.4	16QAM	1	3	15.78	15.78	15.76			
1.4	16QAM	5	0	15.68	15.68	15.69			
1.4	16QAM	3	1	15.53	15.52	15.41	16.5		
1.4	16QAM	3	3	15.46	15.45	15.43			
1.4	16QAM	6	0	15.52	15.53	15.49			
1.4	16QAM	6	3	15.65	15.64	15.63			
1.4	16QAM	3	3	15.74	15.74	15.63	16.5		
1.4	64QAM	1	5	15.63	15.62	15.50			
1.4	64QAM	3	0	15.60	15.59	15.53			
1.4	64QAM	3	1	15.66	15.64	15.56			
1.4	64QAM	3	3	15.59	15.61	15.57	16.5		
1.4	64QAM	6	0	15.60	15.60	15.58			
1.4	64QAM	6	3	15.64	15.64	15.63			
1.4	64QAM	6	6	15.64	15.64	15.63			

Band 5_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				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	24.02	24.02	24.06	25		
10	QPSK	1	25	24.02	24.01	24.02			
10	QPSK	1	49	24.04	24.13	24.01			
10	QPSK	25	0	23.10	23.09	23.10			
10	QPSK	25	12	23.19	23.18	23.15	24		
10	QPSK	25	25	23.19	23.15	23.14			
10	QPSK	50	0	23.12	23.10	23.03			
10	16QAM	1	0	23.39	23.37	23.46			
10	16QAM	1	25	23.39	23.41	23.39	24		
10	16QAM	1	49	23.42	23.41	23.39			
10	16QAM	25	0	22.11	22.09	22.11			
10	16QAM	25	12	22.21	22.19	22.13			
10	16QAM	25	25	22.19	22.16	22.16	23		
10	16QAM	50	0	22.10	22.11	22.01			
10	64QAM	1	0	22.22	22.20	22.23			
10	64QAM	1	25	22.33	22.30	22.33			
10	64QAM	1	49	22.32	22.28	22.28	23		
10	64QAM	25	0	21.13	21.13	21.14			
10	64QAM	25	12	21.26	21.25	21.17			
10	64QAM	25	25	21.20	21.19	21.19			
10	64QAM	50	0	21.12	21.15	21.06	22		
Channel				20425	20525	20625			
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	23.93	23.93	23.91	25		
5	QPSK	1	12	24.04	24.06	24.09			
5	QPSK	1	24	24.06	24.02	23.97			
5	QPSK	12	0	23.06	23.09	23.06			
5	QPSK	12	7	23.16	23.17	23.16	24		
5	QPSK	12	13	23.16	23.16	23.12			
5	QPSK	25	0	23.15	23.14	23.14			
5	16QAM	1	0	23.29	23.29	23.26			
5	16QAM	1	12	23.30	23.40	23.34	24		
5	16QAM	1	24	23.31	23.39	23.29			
5	16QAM	12	0	22.09	22.11	22.10			
5	16QAM	12	7	22.19	22.21	22.17			
5	16QAM	12	13	22.16	22.16	22.13	23		
5	16QAM	25	0	22.16	22.16	22.14			
5	64QAM	1	0	22.17	22.18	22.18			
5	64QAM	1	12	22.23	22.29	22.25			
5	64QAM	1	24	22.24	22.26	22.20	23		
5	64QAM	12	0	21.15	21.17	21.15			
5	64QAM	12	7	21.26	21.27	21.23			
5	64QAM	12	13	21.21	21.25	21.21			
5	64QAM	25	0	21.19	21.16	21.16	22		
Channel				20415	20525	20635			
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	23.98	23.98	23.94	25		
3	QPSK	1	8	24.12	24.10	24.07			
3	QPSK	1	14	24.06	24.04	23.99			
3	QPSK	8	0	23.08	23.09	23.06			
3	QPSK	8	4	23.18	23.18	23.15	24		
3	QPSK	8	7	23.16	23.15	23.11			
3	QPSK	15	0	23.16	23.13	23.08			
3	16QAM	1	0	23.25	23.31	23.30			
3	16QAM	1	8	23.30	23.45	23.39	24		
3	16QAM	1	14	23.34	23.41	23.34			
3	16QAM	8	0	22.14	22.15	22.11			
3	16QAM	8	4	22.24	22.25	22.22			
3	16QAM	8	7	22.22	22.22	22.18	23		
3	16QAM	15	0	22.17	22.19	22.06			
3	64QAM	1	0	22.19	22.19	22.17			
3	64QAM	1	8	22.34	22.35	22.32			
3	64QAM	1	14	22.26	22.32	22.21	23		
3	64QAM	8	0	21.17	21.17	21.14			
3	64QAM	8	4	21.25	21.25	21.22			
3	64QAM	8	7	21.22	21.23	21.16			
3	64QAM	15	0	21.19	21.19	21.10	22		
Channel				20407	20525	20643			
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	23.90	24.00	23.94	25		
1.4	QPSK	1	3	24.03	24.03	23.99			
1.4	QPSK	1	5	23.94	23.98	23.90			
1.4	QPSK	3	0	23.97	23.99	23.96			
1.4	QPSK	3	1	24.01	24.03	24.01	24		
1.4	QPSK	3	3	23.98	23.99	23.95			
1.4	QPSK	6	0	23.08	23.09	23.05			
1.4	16QAM	1	0	23.21	23.28	23.24			
1.4	16QAM	1	3	23.35	23.36	23.31	24		
1.4	16QAM	1	5	23.30	23.31	23.27			
1.4	16QAM	3	0	23.03	23.08	23.04			
1.4	16QAM	3	1	23.10	23.13	23.09			
1.4	16QAM	3	3	23.04	23.10	23.03	23		
1.4	16QAM	6	0	22.19	22.17	22.14			
1.4	64QAM	1	0	22.15	22.21	22.22			
1.4	64QAM	1	3	22.25	22.29	22.22			
1.4	64QAM	1	5	22.17	22.20	22.15	23		
1.4	64QAM	3	0	22.18	22.19	22.17			
1.4	64QAM	3	1	22.23	22.26	22.20			
1.4	64QAM	3	3	22.19	22.21	22.14			
1.4	64QAM	6	0	21.08	21.09	21.06	22		

Band 7_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				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	14.49	14.47	14.54	15.5
20	QPSK	1	49	14.48	14.54	14.59	
20	QPSK	1	99	14.55	14.62	14.65	
20	QPSK	50	0	14.60	14.66	14.64	15.5
20	QPSK	50	24	14.65	14.67	14.69	
20	QPSK	50	50	14.66	14.74	14.76	
20	QPSK	100	0	14.58	14.58	14.59	15.5
20	16QAM	1	0	14.69	14.65	14.96	
20	16QAM	1	49	14.93	14.97	14.98	
20	16QAM	1	99	14.99	15.00	15.08	15.5
20	16QAM	50	0	14.62	14.66	14.72	
20	16QAM	50	24	14.75	14.71	14.77	
20	16QAM	50	50	14.75	14.81	14.84	15.5
20	16QAM	100	0	14.65	14.60	14.86	
20	64QAM	1	0	14.71	14.71	14.82	
20	64QAM	1	49	14.82	14.79	14.82	15.5
20	64QAM	1	99	14.85	14.93	14.96	
20	64QAM	50	0	14.72	14.72	14.76	
20	64QAM	50	24	14.76	14.76	14.84	15.5
20	64QAM	50	50	14.75	14.82	14.97	
20	64QAM	100	0	14.70	14.62	14.74	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	14.54	14.54	14.58	15.5
15	QPSK	1	37	14.52	14.57	14.59	
15	QPSK	1	74	14.57	14.62	14.65	
15	QPSK	36	0	14.59	14.64	14.63	15.5
15	QPSK	36	20	14.70	14.67	14.70	
15	QPSK	36	39	14.71	14.76	14.78	
15	QPSK	75	0	14.61	14.59	14.60	15.5
15	16QAM	1	0	14.53	14.67	14.97	
15	16QAM	1	37	14.92	14.96	15.01	
15	16QAM	1	74	14.95	15.01	15.05	15.5
15	16QAM	36	0	14.67	14.67	14.75	
15	16QAM	36	20	14.73	14.70	14.86	
15	16QAM	36	39	14.75	14.76	14.86	15.5
15	16QAM	75	0	14.70	14.64	14.71	
15	64QAM	1	0	14.72	14.76	14.85	
15	64QAM	1	37	14.85	14.89	14.95	15.5
15	64QAM	1	74	14.86	14.90	15.00	
15	64QAM	36	0	14.74	14.72	14.82	
15	64QAM	36	20	14.80	14.77	14.90	15.5
15	64QAM	36	39	14.82	14.84	14.91	
15	64QAM	75	0	14.71	14.69	14.74	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	14.30	14.34	14.32	15.5
10	QPSK	1	25	14.30	14.39	14.36	
10	QPSK	1	49	14.35	14.44	14.42	
10	QPSK	25	0	14.38	14.42	14.44	15.5
10	QPSK	25	12	14.49	14.45	14.46	
10	QPSK	25	25	14.47	14.48	14.55	
10	QPSK	50	0	14.40	14.36	14.36	15.5
10	16QAM	1	0	14.73	14.78	14.82	
10	16QAM	1	25	14.75	14.81	14.92	
10	16QAM	1	49	14.78	14.86	14.91	15.5
10	16QAM	25	0	14.43	14.51	14.56	
10	16QAM	25	12	14.55	14.53	14.61	
10	16QAM	25	25	14.52	14.60	14.62	15.5
10	16QAM	50	0	14.43	14.40	14.53	
10	64QAM	1	0	14.67	14.65	14.67	
10	64QAM	1	25	14.71	14.76	14.79	15.5
10	64QAM	1	49	14.69	14.79	14.79	
10	64QAM	25	0	14.46	14.51	14.54	
10	64QAM	25	12	14.57	14.55	14.66	15.5
10	64QAM	25	25	14.55	14.62	14.65	
10	64QAM	50	0	14.47	14.44	14.55	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	14.31	14.38	14.40	15.5
5	QPSK	1	12	14.38	14.39	14.44	
5	QPSK	1	24	14.39	14.44	14.44	
5	QPSK	12	0	14.38	14.39	14.43	15.5
5	QPSK	12	7	14.51	14.45	14.51	
5	QPSK	12	13	14.45	14.50	14.50	
5	QPSK	25	0	14.41	14.42	14.50	15.5
5	16QAM	1	0	14.69	14.74	14.86	
5	16QAM	1	12	14.73	14.72	14.90	
5	16QAM	1	24	14.77	14.79	14.86	15.5
5	16QAM	12	0	14.50	14.52	14.60	
5	16QAM	12	7	14.56	14.56	14.63	
5	16QAM	12	13	14.51	14.58	14.59	15.5
5	16QAM	25	0	14.48	14.48	14.59	
5	64QAM	1	0	14.67	14.71	14.83	
5	64QAM	1	12	14.70	14.73	14.82	15.5
5	64QAM	1	24	14.73	14.76	14.86	
5	64QAM	12	0	14.56	14.55	14.63	
5	64QAM	12	7	14.62	14.62	14.66	15.5
5	64QAM	12	13	14.55	14.59	14.66	
5	64QAM	25	0	14.51	14.54	14.61	

Band 12_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				23060	23095	23130			
Frequency (MHz)				704	707.5	711			
10	QPSK	1	0	23.00	23.07	23.06	24		
10	QPSK	1	25	23.03	23.03	23.03			
10	QPSK	1	49	23.10	23.10	23.11			
10	QPSK	25	0	22.05	22.06	22.08			
10	QPSK	25	12	22.25	22.23	22.20	23		
10	QPSK	25	25	22.21	22.19	22.22			
10	QPSK	50	0	22.18	22.18	22.11			
10	16QAM	1	0	22.38	22.40	22.42			
10	16QAM	1	25	22.41	22.43	22.46	23		
10	16QAM	1	49	22.51	22.49	22.49			
10	16QAM	25	0	21.08	21.07	21.07			
10	16QAM	25	12	21.27	21.25	21.20			
10	16QAM	25	25	21.21	21.18	21.18	22		
10	16QAM	50	0	21.18	21.19	21.10			
10	64QAM	1	0	21.25	21.27	21.30			
10	64QAM	1	25	21.38	21.38	21.37			
10	64QAM	1	49	21.44	21.38	21.39	22		
10	64QAM	25	0	20.09	20.11	20.11			
10	64QAM	25	12	20.28	20.30	20.23			
10	64QAM	25	25	20.25	20.22	20.26			
10	64QAM	50	0	20.18	20.20	20.15	21		
Channel				23035	23095	23155			
Frequency (MHz)				701.5	707.5	713.5			
5	QPSK	1	0	23.01	23.03	23.03	24		
5	QPSK	1	12	23.09	23.10	23.15			
5	QPSK	1	24	23.08	23.11	23.14			
5	QPSK	12	0	22.18	22.18	22.17			
5	QPSK	12	7	22.24	22.22	22.22	23		
5	QPSK	12	13	22.20	22.22	22.22			
5	QPSK	25	0	22.20	22.21	22.21			
5	16QAM	1	0	22.38	22.38	22.36			
5	16QAM	1	12	22.41	22.48	22.41	23		
5	16QAM	1	24	22.41	22.44	22.49			
5	16QAM	12	0	21.18	21.18	21.18			
5	16QAM	12	7	21.24	21.28	21.28			
5	16QAM	12	13	21.23	21.24	21.22	22		
5	16QAM	25	0	21.22	21.24	21.21			
5	64QAM	1	0	21.24	21.25	21.31			
5	64QAM	1	12	21.30	21.35	21.33			
5	64QAM	1	24	21.34	21.37	21.38	22		
5	64QAM	12	0	20.20	20.21	20.23			
5	64QAM	12	7	20.31	20.32	20.30			
5	64QAM	12	13	20.25	20.27	20.27			
5	64QAM	25	0	20.23	20.24	20.25	21		
Channel				23025	23095	23165			
Frequency (MHz)				700.5	707.5	714.5			
3	QPSK	1	0	23.04	23.06	23.08	24		
3	QPSK	1	8	23.14	23.16	23.14			
3	QPSK	1	14	23.08	23.09	23.10			
3	QPSK	8	0	22.13	22.14	22.13			
3	QPSK	8	4	22.19	22.24	22.15	23		
3	QPSK	8	7	22.18	22.21	22.18			
3	QPSK	15	0	22.19	22.20	22.12			
3	16QAM	1	0	22.37	22.39	22.41			
3	16QAM	1	8	22.51	22.48	22.51	23		
3	16QAM	1	14	22.47	22.44	22.44			
3	16QAM	8	0	21.19	21.23	21.21			
3	16QAM	8	4	21.28	21.28	21.23			
3	16QAM	8	7	21.27	21.27	21.25	22		
3	16QAM	15	0	21.25	21.23	21.17			
3	64QAM	1	0	21.31	21.31	21.32			
3	64QAM	1	8	21.42	21.42	21.40			
3	64QAM	1	14	21.35	21.40	21.33	22		
3	64QAM	8	0	20.21	20.22	20.22			
3	64QAM	8	4	20.29	20.29	20.21			
3	64QAM	8	7	20.29	20.28	20.28			
3	64QAM	15	0	20.24	20.24	20.16	21		
Channel				23017	23095	23173			
Frequency (MHz)				699.7	707.5	715.3			
1.4	QPSK	1	0	23.02	22.94	22.92	24		
1.4	QPSK	1	3	23.08	23.09	23.06			
1.4	QPSK	1	5	22.99	23.01	23.03			
1.4	QPSK	3	0	23.04	23.05	22.94			
1.4	QPSK	3	1	23.07	23.08	23.06	23		
1.4	QPSK	3	3	23.02	23.03	23.00			
1.4	QPSK	6	0	22.12	22.12	22.11			
1.4	16QAM	1	0	22.32	22.31	22.29			
1.4	16QAM	1	3	22.42	22.40	22.42	23		
1.4	16QAM	1	5	22.31	22.33	22.33			
1.4	16QAM	3	0	22.13	22.11	22.06			
1.4	16QAM	3	1	22.18	22.15	22.17			
1.4	16QAM	3	3	22.14	22.09	22.13	22		
1.4	16QAM	6	0	21.20	21.22	21.18			
1.4	64QAM	1	0	21.27	21.21	21.18			
1.4	64QAM	1	3	21.34	21.31	21.29			
1.4	64QAM	1	5	21.26	21.29	21.29	22		
1.4	64QAM	3	0	21.23	21.24	21.17			
1.4	64QAM	3	1	21.30	21.28	21.26			
1.4	64QAM	3	3	21.25	21.25	21.22			
1.4	64QAM	6	0	20.13	20.13	20.11	21		

Band 13_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				23230			
Frequency (MHz)				782			
10	QPSK	1	0		23.12		23
10	QPSK	1	25		23.04		
10	QPSK	1	49		23.12		
10	QPSK	25	0		22.12		
10	QPSK	25	12		22.12		23
10	QPSK	25	25		22.17		
10	QPSK	50	0		22.08		
10	16QAM	1	0		22.42		
10	16QAM	1	25		22.42		22
10	16QAM	1	49		22.41		
10	16QAM	25	0		21.13		
10	16QAM	25	12		21.16		
10	16QAM	25	25		21.13		22
10	16QAM	50	0		21.04		
10	64QAM	1	0		21.28		
10	64QAM	1	25		21.35		
10	64QAM	1	49		21.33		21
10	64QAM	25	0		20.15		
10	64QAM	25	12		20.19		
10	64QAM	25	25		20.21		
10	64QAM	50	0		20.04		
Channel				23205	23230	23255	
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.00	23.06	23.05	24
5	QPSK	1	12	23.08	23.10	23.09	
5	QPSK	1	24	23.09	23.11	23.09	
5	QPSK	12	0	22.08	22.08	22.08	
5	QPSK	12	7	22.20	22.13	22.18	23
5	QPSK	12	13	22.17	22.15	22.17	
5	QPSK	25	0	22.14	22.11	22.16	
5	16QAM	1	0	22.37	22.35	22.38	
5	16QAM	1	12	22.36	22.35	22.36	22
5	16QAM	1	24	22.41	22.42	22.44	
5	16QAM	12	0	21.12	21.11	21.09	
5	16QAM	12	7	21.21	21.14	21.19	
5	16QAM	12	13	21.20	21.17	21.17	21
5	16QAM	25	0	21.19	21.14	21.17	
5	64QAM	1	0	21.27	21.31	21.31	
5	64QAM	1	12	21.30	21.27	21.24	
5	64QAM	1	24	21.34	21.29	21.26	21
5	64QAM	12	0	20.19	20.15	20.15	
5	64QAM	12	7	20.25	20.22	20.27	
5	64QAM	12	13	20.25	20.24	20.24	
5	64QAM	25	0	20.19	20.16	20.20	



Band 17_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				23760	23790	23800			
Frequency (MHz)				708	710	711			
10	QPSK	1	0	22.97	22.95	22.95	24		
10	QPSK	1	25	23.03	23.01	23.04			
10	QPSK	1	49	23.09	23.11	23.07			
10	QPSK	25	0	22.07	22.05	22.07			
10	QPSK	25	12	22.11	22.11	22.11	23		
10	QPSK	25	25	22.21	22.21	22.20			
10	QPSK	50	0	22.10	22.12	22.11			
10	16QAM	1	0	22.28	22.27	22.30			
10	16QAM	1	25	22.35	22.39	22.42	23		
10	16QAM	1	49	22.45	22.45	22.43			
10	16QAM	25	0	21.08	21.07	21.08			
10	16QAM	25	12	21.12	21.11	21.10			
10	16QAM	25	25	21.20	21.15	21.22	22		
10	16QAM	50	0	21.09	21.09	21.11			
10	64QAM	1	0	21.19	21.12	21.24			
10	64QAM	1	25	21.32	21.32	21.35			
10	64QAM	1	49	21.34	21.35	21.35	22		
10	64QAM	25	0	20.08	20.11	20.13			
10	64QAM	25	12	20.15	20.16	20.16			
10	64QAM	25	25	20.21	20.23	20.24			
10	64QAM	50	0	20.13	20.13	20.13	21		
Channel				23755	23790	23805			
Frequency (MHz)				708.5	710	713.5			
5	QPSK	1	0	22.93	22.95	22.98	24		
5	QPSK	1	12	23.04	23.07	23.09			
5	QPSK	1	24	23.10	23.08	23.07			
5	QPSK	12	0	22.06	22.06	22.09			
5	QPSK	12	7	22.15	22.16	22.19	23		
5	QPSK	12	13	22.16	22.16	22.17			
5	QPSK	25	0	22.14	22.16	22.11			
5	16QAM	1	0	22.24	22.26	22.27			
5	16QAM	1	12	22.31	22.31	22.40	23		
5	16QAM	1	24	22.38	22.43	22.37			
5	16QAM	12	0	21.07	21.10	21.09			
5	16QAM	12	7	21.17	21.18	21.18			
5	16QAM	12	13	21.17	21.16	21.18	22		
5	16QAM	25	0	21.14	21.17	21.10			
5	64QAM	1	0	21.18	21.23	21.21			
5	64QAM	1	12	21.20	21.23	21.26			
5	64QAM	1	24	21.31	21.31	21.29	22		
5	64QAM	12	0	20.14	20.16	20.17			
5	64QAM	12	7	20.22	20.25	20.27			
5	64QAM	12	13	20.22	20.24	20.25			
5	64QAM	25	0	20.19	20.20	20.13	21		

Band 25_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				20140	20340	20590			
Frequency (MHz)				1860	1880	1905			
20	QPSK	1	0	15.75	15.64	15.67	16.5		
20	QPSK	1	49	15.61	15.60	15.60			
20	QPSK	1	99	15.54	15.59	15.53			
20	QPSK	50	0	15.79	15.74	15.74	16.5		
20	QPSK	50	24	15.76	15.74	15.71			
20	QPSK	50	50	15.68	15.70	15.70			
20	QPSK	100	0	15.66	15.65	15.67	16.5		
20	16QAM	1	0	16.10	15.99	16.04			
20	16QAM	1	49	15.99	15.94	16.04			
20	16QAM	1	99	15.88	15.90	15.92	16.5		
20	16QAM	50	0	15.80	15.70	15.75			
20	16QAM	50	24	15.76	15.72	15.73			
20	16QAM	50	50	15.71	15.70	15.75	16.5		
20	16QAM	100	0	15.66	15.62	15.71			
20	64QAM	1	0	15.99	15.85	15.89	16.5		
20	64QAM	1	49	15.87	15.84	15.85			
20	64QAM	1	99	15.81	15.85	15.80			
20	64QAM	50	0	15.81	15.74	15.71	16.5		
20	64QAM	50	24	15.79	15.77	15.74			
20	64QAM	50	50	15.75	15.74	15.74			
20	64QAM	100	0	15.69	15.68	15.69	16.5		
Channel				26115	26340	26615			
Frequency (MHz)				1857.5	1880	1907.5			
15	QPSK	1	0	15.52	15.67	15.69	16.5		
15	QPSK	1	37	15.64	15.60	15.60			
15	QPSK	1	74	15.48	15.59	15.57			
15	QPSK	36	0	15.74	15.59	15.60	16.5		
15	QPSK	36	20	15.81	15.74	15.77			
15	QPSK	36	39	15.72	15.71	15.68			
15	QPSK	75	0	15.73	15.70	15.70	16.5		
15	16QAM	1	0	15.82	15.99	16.04			
15	16QAM	1	37	15.99	15.99	16.02			
15	16QAM	1	74	15.80	15.94	15.93	16.5		
15	16QAM	36	0	15.71	15.59	15.64			
15	16QAM	36	20	15.78	15.75	15.77			
15	16QAM	36	39	15.70	15.67	15.71	16.5		
15	16QAM	75	0	15.73	15.71	15.75			
15	64QAM	1	0	15.75	15.84	15.87			
15	64QAM	1	37	15.91	15.88	15.87	16.5		
15	64QAM	1	74	15.66	15.85	15.77			
15	64QAM	36	0	15.77	15.64	15.64			
15	64QAM	36	20	15.80	15.60	15.62	16.5		
15	64QAM	36	39	15.75	15.75	15.74			
15	64QAM	75	0	15.71	15.70	15.70			
Channel				26090	26340	26640	16.5		
Frequency (MHz)				1855	1880	1910			
10	QPSK	1	0	15.27	15.13	15.40			
10	QPSK	1	25	15.37	15.36	15.36	16.5		
10	QPSK	1	49	15.13	15.13	15.33			
10	QPSK	25	0	15.47	15.35	15.35			
10	QPSK	25	12	15.53	15.49	15.51	16.5		
10	QPSK	25	25	15.50	15.46	15.44			
10	QPSK	50	0	15.50	15.46	15.45			
10	16QAM	1	0	15.66	15.54	15.78	16.5		
10	16QAM	1	25	15.81	15.75	15.76			
10	16QAM	1	49	15.50	15.53	15.75			
10	16QAM	25	0	15.51	15.35	15.36	16.5		
10	16QAM	25	12	15.59	15.55	15.54			
10	16QAM	25	25	15.51	15.48	15.47			
10	16QAM	50	0	15.51	15.45	15.43	16.5		
10	64QAM	1	0	15.49	15.32	15.62			
10	64QAM	1	25	15.66	15.66	15.64			
10	64QAM	1	49	15.37	15.38	15.62	16.5		
10	64QAM	25	0	15.50	15.35	15.35			
10	64QAM	25	12	15.57	15.54	15.54			
10	64QAM	25	25	15.50	15.47	15.46	16.5		
10	64QAM	50	0	15.51	15.44	15.47			
Channel				26095	26340	26695	16.5		
Frequency (MHz)				1852.5	1880	1912.5			
5	QPSK	1	0	15.43	15.30	15.35			
5	QPSK	1	12	15.45	15.40	15.38	16.5		
5	QPSK	1	24	15.48	15.43	15.39			
5	QPSK	12	0	15.56	15.40	15.40			
5	QPSK	12	7	15.61	15.49	15.48	16.5		
5	QPSK	12	13	15.57	15.48	15.48			
5	QPSK	25	0	15.55	15.51	15.47			
5	16QAM	1	0	15.82	15.65	15.65	16.5		
5	16QAM	1	12	15.70	15.72	15.69			
5	16QAM	1	24	15.76	15.74	15.70			
5	16QAM	12	0	15.57	15.45	15.42	16.5		
5	16QAM	12	7	15.60	15.53	15.52			
5	16QAM	12	13	15.58	15.54	15.51			
5	16QAM	25	0	15.56	15.50	15.47	16.5		
5	64QAM	1	0	15.71	15.61	15.55			
5	64QAM	1	12	15.68	15.63	15.62			
5	64QAM	1	24	15.67	15.67	15.64	16.5		
5	64QAM	12	0	15.61	15.46	15.46			
5	64QAM	12	7	15.65	15.56	15.55			
5	64QAM	12	13	15.62	15.53	15.53	16.5		
5	64QAM	25	0	15.53	15.53	15.51			
Channel				26095	26340	26695	16.5		
Frequency (MHz)				1851.5	1880	1913.5			
3	QPSK	1	0	15.45	15.32	15.30			
3	QPSK	1	8	15.52	15.45	15.43	16.5		
3	QPSK	1	14	15.48	15.41	15.39			
3	QPSK	8	0	15.54	15.43	15.38			
3	QPSK	8	4	15.59	15.50	15.45	16.5		
3	QPSK	8	7	15.58	15.48	15.50			
3	QPSK	15	0	15.53	15.46	15.40			
3	16QAM	1	0	15.77	15.67	15.65	16.5		
3	16QAM	1	8	15.86	15.77	15.79			
3	16QAM	1	14	15.82	15.77	15.75			
3	16QAM	8	0	15.59	15.48	15.45	16.5		
3	16QAM	8	4	15.66	15.57	15.51			
3	16QAM	8	7	15.65	15.57	15.56			
3	16QAM	15	0	15.60	15.53	15.45	16.5		
3	64QAM	1	0	15.70	15.59	15.55			
3	64QAM	1	8	15.76	15.70	15.69			
3	64QAM	1	14	15.73	15.68	15.68	16.5		
3	64QAM	8	0	15.62	15.49	15.45			
3	64QAM	8	4	15.61	15.56	15.45			
3	64QAM	8	7	15.59	15.54	15.52	16.5		
3	64QAM	15	0	15.54	15.48	15.42			
Channel				26047	26340	26683	16.5		
Frequency (MHz)				1850.7	1880	1914.3			
1.4	QPSK	1	0	15.35	15.30	15.21			
1.4	QPSK	1	3	15.45	15.39	15.37	16.5		
1.4	QPSK	1	5	15.39	15.31	15.32			
1.4	QPSK	3	0	15.37	15.34	15.22			



Band 26_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 26765	Power Middle Ch. / Freq. 26865	Power High Ch. / Freq. 26965	Tune-up limit (dBm)			
Channel				821.5	831.5	841.5				
Frequency (MHz)				23.17	23.12	23.11				
15	QPSK	1	0	23.17	23.12	23.13	24			
15	QPSK	1	37	23.23	23.12	23.14				
15	QPSK	36	0	22.12	22.12	22.09				
15	QPSK	36	20	22.28	22.22	22.26				
15	QPSK	36	39	22.20	22.22	22.18	23			
15	QPSK	75	0	22.22	22.14	22.12				
15	16QAM	1	0	22.50	22.43	22.42				
15	16QAM	1	37	22.47	22.50	22.47				
15	16QAM	1	74	22.49	22.49	22.43	23			
15	16QAM	36	0	21.13	21.14	21.14				
15	16QAM	36	20	21.29	21.22	21.26				
15	16QAM	36	39	21.24	21.23	21.19				
15	16QAM	75	0	21.22	21.15	21.13	22			
15	64QAM	1	0	21.31	21.30	21.35				
15	64QAM	1	37	21.44	21.42	21.38				
15	64QAM	1	74	21.46	21.46	21.28				
15	64QAM	36	0	20.17	20.21	20.15	21			
15	64QAM	36	20	20.31	20.24	20.31				
15	64QAM	36	39	20.30	20.28	20.26				
15	64QAM	75	0	20.24	20.15	20.14				
Channel				26740	26865	26990	Tune-up limit (dBm)			
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	23.04	22.98	22.99	24			
10	QPSK	1	25	23.04	22.99	22.95				
10	QPSK	1	49	22.99	23.02	22.90				
10	QPSK	25	0	21.91	21.97	21.94				
10	QPSK	25	12	22.10	22.09	22.05	23			
10	QPSK	25	25	22.02	22.09	22.04				
10	QPSK	50	0	22.00	21.99	21.97				
10	16QAM	1	0	22.38	22.35	22.37				
10	16QAM	1	25	22.35	22.35	22.34	23			
10	16QAM	1	49	22.36	22.35	22.28				
10	16QAM	25	0	20.89	20.97	20.97				
10	16QAM	25	12	21.10	21.12	21.09				
10	16QAM	25	25	21.04	21.10	21.03	22			
10	16QAM	50	0	21.02	21.01	20.97				
10	64QAM	1	0	21.23	21.21	21.20				
10	64QAM	1	25	21.22	21.30	21.27				
10	64QAM	1	49	21.27	21.29	21.21	22			
10	64QAM	25	0	19.95	19.99	20.00				
10	64QAM	25	12	20.14	20.15	20.13				
10	64QAM	25	25	20.05	20.13	20.08				
10	64QAM	50	0	20.05	20.03	19.97	21			
Channel				26715	26865	27015		Tune-up limit (dBm)		
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	22.88	22.95	22.95		24		
5	QPSK	1	12	23.03	23.04	22.99				
5	QPSK	1	24	23.09	23.06	22.94				
5	QPSK	12	0	22.02	22.06	22.01				
5	QPSK	12	7	22.15	22.18	22.09	23			
5	QPSK	12	13	22.10	22.14	22.04				
5	QPSK	25	0	22.11	22.06	22.01				
5	16QAM	1	0	22.18	22.28	22.32				
5	16QAM	1	12	22.35	22.28	22.23	23			
5	16QAM	1	24	22.30	22.32	22.23				
5	16QAM	12	0	21.03	21.07	21.02				
5	16QAM	12	7	21.17	21.20	21.11				
5	16QAM	12	13	21.12	21.16	21.04	22			
5	16QAM	25	0	21.11	21.08	21.02				
5	64QAM	1	0	21.11	21.25	21.17				
5	64QAM	1	12	21.26	21.26	21.16				
5	64QAM	1	24	21.25	21.29	21.14	21			
5	64QAM	12	0	20.07	20.12	20.08				
5	64QAM	12	7	20.21	20.27	20.16				
5	64QAM	12	13	20.18	20.22	20.12				
5	64QAM	25	0	20.12	20.11	20.04	20			
Channel				26705	26865	27025		Tune-up limit (dBm)		
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	22.95	22.98	22.99		24		
3	QPSK	1	8	23.10	23.11	22.98				
3	QPSK	1	14	22.99	23.07	22.83				
3	QPSK	8	0	22.02	22.06	22.04				
3	QPSK	8	4	22.14	22.21	22.09	23			
3	QPSK	8	7	22.13	22.18	22.04				
3	QPSK	15	0	22.10	22.07	22.03				
3	16QAM	1	0	22.27	22.27	22.27				
3	16QAM	1	8	22.31	22.36	22.33	23			
3	16QAM	1	14	22.31	22.36	22.19				
3	16QAM	8	0	21.08	21.13	21.11				
3	16QAM	8	4	21.19	21.23	21.12				
3	16QAM	8	7	21.16	21.16	21.08	22			
3	16QAM	15	0	21.12	21.11	21.06				
3	64QAM	1	0	21.13	21.19	21.21				
3	64QAM	1	8	21.32	21.31	21.19				
3	64QAM	1	14	21.23	21.25	21.12	21			
3	64QAM	8	0	20.10	20.14	20.12				
3	64QAM	8	4	20.22	20.26	20.16				
3	64QAM	8	7	20.19	20.21	20.11				
3	64QAM	15	0	20.15	20.12	20.08	20			
Channel				26697	26865	27033		Tune-up limit (dBm)		
Frequency (MHz)				814.7	831.5	848.3				
1.4	QPSK	1	0	22.90	22.88	22.83		24		
1.4	QPSK	1	3	23.02	22.99	22.88				
1.4	QPSK	1	5	22.99	22.96	22.81				
1.4	QPSK	3	0	22.96	22.89	22.83				
1.4	QPSK	3	1	22.98	22.94	22.88	23			
1.4	QPSK	3	3	22.96	22.95	22.85				
1.4	QPSK	6	0	22.04	21.96	21.95				
1.4	16QAM	1	0	22.23	22.18	22.15				
1.4	16QAM	1	3	22.31	22.33	22.26	23			
1.4	16QAM	1	5	22.28	22.25	22.14				
1.4	16QAM	3	0	22.01	21.95	21.89				
1.4	16QAM	3	1	22.08	22.02	21.93				
1.4	16QAM	3	3	22.01	22.00	21.89	22			
1.4	16QAM	6	0	21.13	21.12	21.06				
1.4	64QAM	1	0	21.13	21.10	21.08				
1.4	64QAM	1	3	21.24	21.23	21.08				
1.4	64QAM	1	5	21.18	21.17	21.07	22			
1.4	64QAM	3	0	21.17	21.10	21.06				
1.4	64QAM	3	1	21.24	21.16	21.10				
1.4	64QAM	3	3	21.17	21.18	21.05				
1.4	64QAM	6	0	20.07	20.04	19.97	21			

Band 66 Ant 2											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 132072	Power Middle Ch. / Freq. 132322	Power High Ch. / Freq. 132572	Tune-up limit (dBm)				
Channel				Frequency (MHz)							
				1720	1745	1770					
20	QPSK	1	0	15.35	15.40	15.68	16.5				
20	QPSK	1	49	15.56	15.63	15.68					
20	QPSK	1	99	15.27	15.28	15.54					
20	QPSK	50	0	15.65	15.69	15.71					
20	QPSK	50	24	15.75	15.70	15.81	16.5				
20	QPSK	50	50	15.58	15.65	15.64					
20	QPSK	100	0	15.67	15.70	15.74					
20	16QAM	1	0	15.71	15.68	15.68	16.5				
20	16QAM	1	49	15.85	15.92	16.01					
20	16QAM	1	99	15.54	15.59	15.82					
20	16QAM	50	0	15.69	15.68	15.72					
20	16QAM	50	24	15.75	15.70	15.84	16.5				
20	16QAM	50	50	15.61	15.68	15.70					
20	16QAM	100	0	15.68	15.70	15.75					
20	64QAM	1	0	15.57	15.58	15.95	16.5				
20	64QAM	1	49	15.79	15.81	15.91					
20	64QAM	1	99	15.48	15.58	15.78					
20	64QAM	50	0	15.70	15.72	15.74					
20	64QAM	50	24	15.76	15.72	15.83	16.5				
20	64QAM	50	50	15.65	15.67	15.71					
20	64QAM	100	0	15.70	15.71	15.75					
Channel				132047	132322	132697	Tune-up limit (dBm)				
				Frequency (MHz)							
				1717.5	1745	1772.5					
15	QPSK	1	0	15.54	15.52	15.76	16.5				
15	QPSK	1	37	15.68	15.63	15.64					
15	QPSK	1	74	15.41	15.43	15.59					
15	QPSK	36	0	15.65	15.70	15.73					
15	QPSK	36	20	15.71	15.75	15.71	16.5				
15	QPSK	36	39	15.67	15.67	15.73					
15	QPSK	75	0	15.71	15.71	15.72					
15	16QAM	1	0	15.83	15.83	16.03	16.5				
15	16QAM	1	37	15.81	15.91	15.90					
15	16QAM	1	74	15.68	15.71	15.86					
15	16QAM	36	0	15.65	15.71	15.76					
15	16QAM	36	20	15.73	15.74	15.74	16.5				
15	16QAM	36	39	15.66	15.69	15.72					
15	16QAM	75	0	15.70	15.73	15.72					
15	64QAM	1	0	15.72	15.72	15.92	16.5				
15	64QAM	1	37	15.83	15.83	15.90					
15	64QAM	1	74	15.64	15.64	15.79					
15	64QAM	36	0	15.68	15.75	15.78					
15	64QAM	36	20	15.75	15.78	15.79	16.5				
15	64QAM	36	39	15.70	15.70	15.77					
15	64QAM	75	0	15.71	15.75	15.72					
Channel				132022	132322	132692	Tune-up limit (dBm)				
				Frequency (MHz)							
				1715	1745	1775					
10	QPSK	1	0	15.17	15.15	15.22	16.5				
10	QPSK	1	25	15.36	15.38	15.39					
10	QPSK	1	49	15.06	15.13	15.11					
10	QPSK	25	0	15.39	15.44	15.48					
10	QPSK	25	12	15.52	15.49	15.60	16.5				
10	QPSK	25	25	15.42	15.47	15.53					
10	QPSK	50	0	15.51	15.47	15.52					
10	16QAM	1	0	15.63	15.52	15.67					
10	16QAM	1	25	15.82	15.82	15.95	16.5				
10	16QAM	1	49	15.53	15.62	15.64					
10	16QAM	25	0	15.38	15.44	15.49					
10	16QAM	25	12	15.57	15.48	15.56					
10	16QAM	25	25	15.49	15.46	15.49	16.5				
10	16QAM	50	0	15.46	15.48	15.52					
10	64QAM	1	0	15.37	15.37	15.44					
10	64QAM	1	25	15.68	15.69	15.76					
10	64QAM	1	49	15.43	15.45	15.49	16.5				
10	64QAM	25	0	15.41	15.45	15.50					
10	64QAM	25	12	15.56	15.52	15.64					
10	64QAM	25	25	15.46	15.45	15.52					
10	64QAM	50	0	15.50	15.50	15.52	16.5				
Channel				131997	132322	132697	Tune-up limit (dBm)				
				Frequency (MHz)							
				1712.5	1745	1777.5					
5	QPSK	1	0	15.33	15.42	15.42	16.5				
5	QPSK	1	12	15.51	15.53	15.54					
5	QPSK	1	24	15.39	15.37	15.33					
5	QPSK	12	0	15.57	15.51	15.56					
5	QPSK	12	7	15.55	15.57	15.54	16.5				
5	QPSK	12	13	15.50	15.49	15.53					
5	QPSK	25	0	15.54	15.54	15.54					
5	16QAM	1	0	15.89	15.80	15.84					
5	16QAM	1	12	16.05	16.01	16.07	16.5				
5	16QAM	1	24	15.78	15.77	15.85					
5	16QAM	12	0	15.59	15.58	15.59					
5	16QAM	12	7	15.59	15.60	15.58					
5	16QAM	12	13	15.48	15.50	15.55	16.5				
5	16QAM	25	0	15.52	15.56	15.52					
5	64QAM	1	0	15.69	15.67	15.65					
5	64QAM	1	12	15.70	15.69	15.65					
5	64QAM	1	24	15.59	15.62	15.61	16.5				
5	64QAM	12	0	15.65	15.58	15.65					
5	64QAM	12	7	15.64	15.68	15.62					
5	64QAM	12	13	15.55	15.58	15.55					
5	64QAM	25	0	15.54	15.53	15.56	16.5				
Channel				131987	132322	132695	Tune-up limit (dBm)				
				Frequency (MHz)							
				1710.7	1745	1779.3					
1.4	QPSK	1	0	15.31	15.39	15.43	16.5				
1.4	QPSK	1	3	15.42	15.38	15.42					
1.4	QPSK	1	5	15.38	15.31	15.38					
1.4	QPSK	3	0	15.49	15.42	15.52					
1.4	QPSK	3	1	15.58	15.53	15.60	16.5				
1.4	QPSK	3	3	15.44	15.39	15.49					
1.4	QPSK	6	0	15.47	15.46	15.52					
1.4	16QAM	1	0	15.66	15.75	15.74					
1.4	16QAM	1	2	15.83	15.73	15.72	16.5				
1.4	16QAM	1	5	15.69	15.56	15.74					
1.4	16QAM	3	0	15.62	15.59	15.63					
1.4	16QAM	3	1	15.70	15.64	15.74					
1.4	16QAM	3	3	15.62	15.54	15.62	16.5				
1.4	16QAM	6	0	15.52	15.57	15.62					
1.4	64QAM	1	0	15.60	15.64	15.66					
1.4	64QAM	1	3	15.68	15.68	15.69					
1.4	64QAM	1	5	15.57	15.58	15.61	16.5				
1.4	64QAM	3	0	15.57	15.59	15.67					
1.4	64QAM	3	1	15.65	15.68	15.72					
1.4	64QAM	3	3	15.57	15.58	15.66					
1.4	64QAM	6	0	15.46	15.50	15.55	16.5				



Band 2_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 18700	Power Middle Ch. Freq. 18800	Power High Ch. Freq. 19100	Tune-up limit (dBm)
Channel				18600	18800	19000	
Frequency (MHz)				18600	18800	19000	
20	QPSK	1	0	12.56	12.50	12.53	13.5
20	QPSK	1	49	12.45	12.48	12.45	
20	QPSK	1	99	12.38	12.46	12.41	
20	QPSK	50	0	12.54	12.48	12.46	
20	QPSK	50	24	12.63	12.56	12.62	
20	QPSK	50	50	12.50	12.55	12.52	13.5
20	QPSK	100	0	12.51	12.44	12.53	
20	16QAM	1	0	12.91	12.85	12.87	
20	16QAM	1	49	12.79	12.82	12.82	
20	16QAM	1	99	12.73	12.80	12.75	
20	16QAM	50	0	12.55	12.48	12.48	13.5
20	16QAM	50	24	12.61	12.55	12.63	
20	16QAM	50	50	12.52	12.54	12.55	
20	16QAM	100	0	12.52	12.45	12.56	
20	64QAM	1	0	12.84	12.71	12.75	
20	64QAM	1	49	12.68	12.70	12.69	13.5
20	64QAM	1	99	12.64	12.70	12.67	
20	64QAM	50	0	12.56	12.49	12.52	
20	64QAM	50	24	12.64	12.57	12.68	
20	64QAM	50	50	12.52	12.57	12.57	
20	64QAM	100	0	12.54	12.47	12.57	Tune-up limit (dBm)
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	18800	1902.5	
15	QPSK	1	0	12.43	12.53	12.54	13.5
15	QPSK	1	37	12.45	12.46	12.48	
15	QPSK	1	74	12.31	12.49	12.46	
15	QPSK	36	0	12.55	12.49	12.51	
15	QPSK	36	20	12.64	12.63	12.55	
15	QPSK	36	39	12.58	12.61	12.57	13.5
15	QPSK	75	0	12.57	12.51	12.49	
15	16QAM	1	0	12.79	12.85	12.87	
15	16QAM	1	37	12.82	12.85	12.85	
15	16QAM	1	74	12.64	12.82	12.79	
15	16QAM	36	0	12.58	12.50	12.51	13.5
15	16QAM	36	20	12.60	12.66	12.58	
15	16QAM	36	39	12.57	12.60	12.58	
15	16QAM	75	0	12.59	12.52	12.54	
15	64QAM	1	0	12.64	12.72	12.74	
15	64QAM	1	37	12.73	12.72	12.75	13.5
15	64QAM	1	74	12.53	12.73	12.67	
15	64QAM	36	0	12.62	12.54	12.54	
15	64QAM	36	20	12.64	12.66	12.61	
15	64QAM	36	39	12.62	12.64	12.65	
15	64QAM	75	0	12.60	12.53	12.56	Tune-up limit (dBm)
Channel				18650	18900	19150	
Frequency (MHz)				1855	18800	1905	
10	QPSK	1	0	12.10	12.03	12.38	13.5
10	QPSK	1	25	12.33	12.33	12.33	
10	QPSK	1	49	12.01	12.03	12.32	
10	QPSK	25	0	12.34	12.26	12.26	
10	QPSK	25	12	12.45	12.37	12.42	
10	QPSK	25	25	12.34	12.34	12.33	13.5
10	QPSK	50	0	12.37	12.30	12.37	
10	16QAM	1	0	12.48	12.44	12.79	
10	16QAM	1	25	12.70	12.72	12.75	
10	16QAM	1	49	12.36	12.41	12.68	
10	16QAM	25	0	12.37	12.31	12.32	13.5
10	16QAM	25	12	12.45	12.36	12.46	
10	16QAM	25	25	12.33	12.35	12.32	
10	16QAM	50	0	12.36	12.30	12.38	
10	64QAM	1	0	12.38	12.31	12.67	
10	64QAM	1	25	12.67	12.66	12.65	13.5
10	64QAM	1	49	12.29	12.33	12.64	
10	64QAM	25	0	12.41	12.34	12.32	
10	64QAM	25	12	12.52	12.43	12.49	
10	64QAM	25	25	12.38	12.36	12.40	
10	64QAM	50	0	12.40	12.32	12.42	Tune-up limit (dBm)
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	18800	1907.5	
5	QPSK	1	0	12.30	12.22	12.22	13.5
5	QPSK	1	12	12.39	12.40	12.33	
5	QPSK	1	24	12.27	12.25	12.21	
5	QPSK	12	0	12.45	12.37	12.33	
5	QPSK	12	7	12.49	12.46	12.42	
5	QPSK	12	13	12.44	12.38	12.40	13.5
5	QPSK	25	0	12.40	12.37	12.32	
5	16QAM	1	0	12.64	12.55	12.52	
5	16QAM	1	12	12.66	12.65	12.61	
5	16QAM	1	24	12.57	12.58	12.54	
5	16QAM	12	0	12.45	12.35	12.37	13.5
5	16QAM	12	7	12.51	12.47	12.43	
5	16QAM	12	13	12.40	12.44	12.36	
5	16QAM	25	0	12.44	12.44	12.38	
5	64QAM	1	0	12.57	12.48	12.48	
5	64QAM	1	12	12.62	12.61	12.60	13.5
5	64QAM	1	24	12.52	12.48	12.45	
5	64QAM	12	0	12.54	12.46	12.42	
5	64QAM	12	7	12.57	12.58	12.46	
5	64QAM	12	13	12.51	12.46	12.40	
5	64QAM	25	0	12.44	12.46	12.41	Tune-up limit (dBm)
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	18800	1906.5	
3	QPSK	1	0	12.37	12.28	12.31	13.5
3	QPSK	1	8	12.44	12.42	12.41	
3	QPSK	1	14	12.33	12.33	12.29	
3	QPSK	8	0	12.46	12.42	12.45	
3	QPSK	8	4	12.52	12.51	12.44	
3	QPSK	8	7	12.48	12.41	12.42	13.5
3	QPSK	15	0	12.48	12.46	12.44	
3	16QAM	1	0	12.68	12.60	12.63	
3	16QAM	1	8	12.78	12.79	12.73	
3	16QAM	1	14	12.69	12.64	12.59	
3	16QAM	8	0	12.55	12.44	12.48	13.5
3	16QAM	8	4	12.53	12.55	12.47	
3	16QAM	8	7	12.51	12.45	12.48	
3	16QAM	15	0	12.51	12.45	12.47	
3	64QAM	1	0	12.63	12.56	12.57	
3	64QAM	1	8	12.75	12.69	12.64	13.5
3	64QAM	1	14	12.62	12.58	12.50	
3	64QAM	8	0	12.53	12.45	12.50	
3	64QAM	8	4	12.60	12.55	12.54	
3	64QAM	8	7	12.50	12.49	12.40	
3	64QAM	15	0	12.53	12.45	12.48	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	18800	1906.3	
1.4	QPSK	1	0	12.28	12.29	12.22	13.5
1.4	QPSK	1	3	12.35	12.34	12.31	
1.4	QPSK	1	5	12.29	12.25	12.29	
1.4	QPSK	3	0	12.35	12.33	12.22	
1.4	QPSK	3	1	12.33	12.30	12.25	
1.4	QPSK	3	3	12.31	12.27	12.26	13.5
1.4	QPSK	6	0	12.38	12.36	12.34	
1.4	16QAM	1	0	12.64	12.62	12.56	
1.4	16QAM	1	3	12.73	12.68	12.66	
1.4	16QAM	1	5	12.67	12.62	12.55	
1.4	16QAM	3	0	12.40	12.38	12.33	13.5
1.4	16QAM	3	1	12.45	12.43	12.40	
1.4	16QAM	3	3	12.39	12.39	12.34	
1.4	16QAM	6	0	12.46	12.50	12.44	
1.4	64QAM	1	0	12.58	12.52	12.53	
1.4	64QAM	1	3	12.66	12.59	12.55	13.5
1.4	64QAM	1	5	12.54	12.54	12.49	
1.4	64QAM	3	0	12.58	12.51	12.46	
1.4	64QAM	3	1	12.61	12.58	12.50	
1.4	64QAM	3	3	12.53	12.52	12.46	
1.4	64QAM	6	0	12.41	12.41	12.37	13.5

Band 4_Ant 2										
BW (MHz)	Modulation n	RB Size	RB Offset	Power Low Ch. / Freq. 20050	Power Middle Ch. / Freq. 20175	Power High Ch. / Freq. 20300	Tune-up limit (dBm)			
Channel				1720	1732.5	1745				
Frequency (MHz)				12.38	12.41	12.41				
20	QPSK	1	0	12.38	12.41	12.41	13.5			
20	QPSK	1	49	12.53	12.55	12.54				
20	QPSK	1	99	12.22	12.16	12.14				
20	QPSK	50	0	12.63	12.60	12.62	13.5			
20	QPSK	50	24	12.73	12.66	12.63				
20	QPSK	50	50	12.58	12.62	12.58				
20	QPSK	100	0	12.54	12.54	12.62	13.5			
20	16QAM	1	0	12.72	12.75	12.76				
20	16QAM	1	49	12.87	12.91	12.90				
20	16QAM	1	99	12.55	12.53	12.51	13.5			
20	16QAM	50	0	12.57	12.61	12.60				
20	16QAM	50	24	12.68	12.64	12.61				
20	16QAM	50	50	12.58	12.58	12.57	13.5			
20	16QAM	100	0	12.60	12.52	12.60				
20	64QAM	1	0	12.52	12.58	12.54				
20	64QAM	1	49	12.72	12.78	12.71	13.5			
20	64QAM	1	99	12.41	12.38	12.35				
20	64QAM	50	0	12.59	12.62	12.60				
20	64QAM	50	24	12.72	12.67	12.64	13.5			
20	64QAM	50	50	12.60	12.59	12.58				
20	64QAM	100	0	12.63	12.56	12.62				
Channel				20025	20175	20305	Tune-up limit (dBm)			
Frequency (MHz)				1717.5	1732.5	1747.5				
15	QPSK	1	0	12.50	12.50	12.49	13.5			
15	QPSK	1	37	12.56	12.57	12.53				
15	QPSK	1	74	12.36	12.38	12.35				
15	QPSK	36	0	12.60	12.62	12.58	13.5			
15	QPSK	36	20	12.72	12.65	12.70				
15	QPSK	36	39	12.65	12.63	12.63				
15	QPSK	75	0	12.64	12.60	12.65	13.5			
15	16QAM	1	0	12.80	12.84	12.82				
15	16QAM	1	37	12.89	12.90	12.87				
15	16QAM	1	74	12.69	12.71	12.68	13.5			
15	16QAM	36	0	12.60	12.62	12.57				
15	16QAM	36	20	12.72	12.64	12.70				
15	16QAM	36	39	12.63	12.64	12.61	13.5			
15	16QAM	75	0	12.66	12.61	12.62				
15	64QAM	1	37	12.77	12.81	12.75		13.5		
15	64QAM	1	74	12.54	12.55	12.55				
15	64QAM	36	0	12.61	12.65	12.62	13.5			
15	64QAM	36	20	12.70	12.67	12.73				
15	64QAM	36	39	12.65	12.67	12.66				
15	64QAM	75	0	12.66	12.61	12.64	13.5			
Channel				20000	20175	20350		Tune-up limit (dBm)		
Frequency (MHz)				1715	1732.5	1750				
10	QPSK	1	0	12.16	12.16	12.17	13.5			
10	QPSK	1	25	12.38	12.40	12.36				
10	QPSK	1	49	12.11	12.12	12.07				
10	QPSK	25	0	12.33	12.35	12.31	13.5			
10	QPSK	25	12	12.49	12.42	12.44				
10	QPSK	25	25	12.42	12.42	12.41				
10	QPSK	50	0	12.47	12.36	12.35	13.5			
10	16QAM	1	0	12.53	12.52	12.51				
10	16QAM	1	25	12.71	12.75	12.73	13.5			
10	16QAM	1	49	12.43	12.46	12.44				
10	16QAM	25	0	12.33	12.34	12.32	13.5			
10	16QAM	25	12	12.49	12.43	12.43				
10	16QAM	25	25	12.41	12.41	12.42				
10	16QAM	50	0	12.44	12.36	12.31	13.5			
10	64QAM	1	0	12.33	12.39	12.38				
10	64QAM	1	25	12.65	12.70	12.66	13.5			
10	64QAM	1	49	12.35	12.38	12.36				
10	64QAM	25	0	12.35	12.39	12.35	13.5			
10	64QAM	25	12	12.52	12.50	12.50				
10	64QAM	25	25	12.43	12.45	12.45				
10	64QAM	50	0	12.45	12.38	12.34	13.5			
Channel				19975	20175	20375		Tune-up limit (dBm)		
Frequency (MHz)				1712.5	1732.5	1752.5				
5	QPSK	1	0	12.28	12.31	12.27	13.5			
5	QPSK	1	12	12.40	12.45	12.37				
5	QPSK	1	24	12.37	12.40	12.33				
5	QPSK	12	0	12.42	12.42	12.38	13.5			
5	QPSK	12	7	12.52	12.50	12.45				
5	QPSK	12	13	12.49	12.51	12.45				
5	QPSK	25	0	12.47	12.42	12.40	13.5			
5	16QAM	1	0	12.57	12.62	12.56				
5	16QAM	1	12	12.66	12.67	12.60	13.5			
5	16QAM	1	24	12.66	12.68	12.65				
5	16QAM	12	0	12.42	12.43	12.39	13.5			
5	16QAM	12	7	12.51	12.48	12.44				
5	16QAM	12	13	12.48	12.49	12.42				
5	16QAM	25	0	12.45	12.40	12.41	13.5			
5	64QAM	1	0	12.45	12.50	12.44				
5	64QAM	1	12	12.55	12.58	12.53	13.5			
5	64QAM	1	24	12.51	12.56	12.53				
5	64QAM	12	0	12.50	12.50	12.48	13.5			
5	64QAM	12	7	12.59	12.56	12.50				
5	64QAM	12	13	12.55	12.57	12.54				
5	64QAM	25	0	12.46	12.44	12.39	13.5			
Channel				19965	20175	20385		Tune-up limit (dBm)		
Frequency (MHz)				1710.7	1732.5	1754.3				
1.4	QPSK	1	0	12.32	12.37	12.39	13.5			
1.4	QPSK	1	8	12.46	12.48	12.46				
1.4	QPSK	1	14	12.39	12.42	12.36				
1.4	QPSK	8	0	12.46	12.49	12.46	13.5			
1.4	QPSK	8	4	12.52	12.51	12.52				
1.4	QPSK	8	7	12.50	12.51	12.46				
1.4	QPSK	15	0	12.46	12.46	12.49	13.5			
1.4	16QAM	1	0	12.63	12.65	12.69				
1.4	16QAM	1	8	12.75	12.77	12.72	13.5			
1.4	16QAM	1	14	12.70	12.73	12.68				
1.4	16QAM	8	0	12.43	12.49	12.48	13.5			
1.4	16QAM	8	4	12.55	12.52	12.55				
1.4	16QAM	8	7	12.49	12.52	12.48				
1.4	16QAM	15	0	12.51	12.46	12.48	13.5			
1.4	64QAM	1	0	12.50	12.53	12.56				
1.4	64QAM	1	8	12.65	12.69	12.66	13.5			
1.4	64QAM	1	14	12.58	12.61	12.57				
1.4	64QAM	8	0	12.50	12.54	12.55	13.5			
1.4	64QAM	8	4	12.57	12.55	12.57				
1.4	64QAM	8	7	12.55	12.58	12.55				
1.4	64QAM	15	0	12.53	12.49	12.48	13.5			
Channel				19957	20175	20393		Tune-up limit (dBm)		
Frequency (MHz)				1710.7	1732.5	1754.3				
1.4	QPSK	1	0	12.24	12.33	12.24	13.5			
1.4	QPSK	1	3	12.39	12.40	12.37				
1.4	QPSK	1	5	12.31	12.34	12.31	13.5			
1.4	QPSK	1	8	12.32	12.36	12.32				
1.4	QPSK	1	1	12.35	12.36	12.34				
1.4	QPSK	3	3	12.33	12.33	12.30	13.5			
1.4	QPSK	6	0	12.39	12.43	12.34				
1.4	16QAM	1	0	12.58	12.64	12.62	13.5			
1.4	16QAM	1	3	12.71	12.72	12.73				
1.4	16QAM	1	5	12.63	12.63	12.62				
1.4	16QAM	3	0	12.44	12.41	12.32	13.5			
1.4	16QAM	3	3	12.44	12.40	12.37				
1.4	16QAM	6	0	12.49	12.55	12.45	13.5			
1.4	16QAM	6	3	12.54	12.54	12.54				
1.4	16QAM	3	5	12.59	12.61	12.55				
1.4	64QAM	1	5	12.51	12.51	12.51	13.5			
1.4	64QAM	3	0	12.51	12.55	12.57				
1.4	64QAM	3	5	12.50	12.56	12.53				

Band 5_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				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.47	22.48	22.56	23.5
10	QPSK	1	25	22.43	22.45	22.56	
10	QPSK	1	49	22.47	22.48	22.46	
10	QPSK	25	0	22.53	22.53	22.62	23.5
10	QPSK	25	12	22.62	22.61	22.59	
10	QPSK	25	25	22.56	22.56	22.62	
10	QPSK	50	0	22.53	22.53	22.52	23.5
10	16QAM	1	0	22.85	22.86	22.92	
10	16QAM	1	25	22.81	22.85	22.88	
10	16QAM	1	49	22.85	22.84	22.82	23
10	16QAM	25	0	22.05	22.06	22.09	
10	16QAM	25	12	22.16	22.14	22.08	
10	16QAM	25	25	22.11	22.12	22.09	22
10	16QAM	50	0	22.04	22.07	21.97	
10	64QAM	1	0	22.20	22.22	22.27	
10	64QAM	1	25	22.26	22.29	22.30	22
10	64QAM	1	49	22.23	22.25	22.21	
10	64QAM	25	0	21.09	21.08	21.12	
10	64QAM	25	12	21.20	21.18	21.14	22
10	64QAM	25	25	21.14	21.13	21.12	
10	64QAM	50	0	21.09	21.10	21.03	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.37	22.40	22.45	23.5
5	QPSK	1	12	22.51	22.53	22.57	
5	QPSK	1	24	22.44	22.46	22.45	
5	QPSK	12	0	22.52	22.50	22.56	23.5
5	QPSK	12	7	22.62	22.61	22.68	
5	QPSK	12	13	22.59	22.58	22.60	
5	QPSK	25	0	22.59	22.57	22.62	23.5
5	16QAM	1	0	22.73	22.72	22.73	
5	16QAM	1	12	22.75	22.76	22.84	
5	16QAM	1	24	22.76	22.80	22.80	23
5	16QAM	12	0	22.05	22.07	22.05	
5	16QAM	12	7	22.14	22.18	22.13	
5	16QAM	12	13	22.11	22.13	22.10	22
5	16QAM	25	0	22.09	22.11	22.09	
5	64QAM	1	0	22.13	22.14	22.13	
5	64QAM	1	12	22.20	22.22	22.21	22
5	64QAM	1	24	22.16	22.19	22.14	
5	64QAM	12	0	21.09	21.12	21.11	
5	64QAM	12	7	21.20	21.23	21.20	22
5	64QAM	12	13	21.17	21.19	21.15	
5	64QAM	25	0	21.15	21.14	21.12	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.41	22.40	22.44	23.5
3	QPSK	1	8	22.55	22.57	22.57	
3	QPSK	1	14	22.59	22.47	22.52	
3	QPSK	8	0	22.52	22.53	22.55	23.5
3	QPSK	8	4	22.62	22.62	22.65	
3	QPSK	8	7	22.58	22.61	22.59	
3	QPSK	15	0	22.59	22.58	22.54	23.5
3	16QAM	1	0	22.71	22.77	22.77	
3	16QAM	1	8	22.91	22.86	22.87	
3	16QAM	1	14	22.85	22.82	22.83	23
3	16QAM	8	0	22.10	22.12	22.10	
3	16QAM	8	4	22.18	22.20	22.19	
3	16QAM	8	7	22.16	22.17	22.15	23
3	16QAM	15	0	22.14	22.17	22.07	
3	64QAM	1	0	22.16	22.14	22.15	
3	64QAM	1	8	22.25	22.32	22.27	22
3	64QAM	1	14	22.21	22.23	22.19	
3	64QAM	8	0	21.13	21.14	21.12	
3	64QAM	8	4	21.21	21.20	21.20	22
3	64QAM	8	7	21.20	21.18	21.18	
3	64QAM	15	0	21.14	21.15	21.07	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.36	22.41	22.47	23.5
1.4	QPSK	1	3	22.49	22.51	22.52	
1.4	QPSK	1	5	22.41	22.40	22.45	
1.4	QPSK	3	0	22.45	22.44	22.46	23.5
1.4	QPSK	3	1	22.47	22.49	22.49	
1.4	QPSK	3	3	22.46	22.46	22.47	
1.4	QPSK	6	0	22.53	22.54	22.53	23.5
1.4	16QAM	1	0	22.70	22.69	22.74	
1.4	16QAM	1	3	22.81	22.85	22.78	
1.4	16QAM	1	5	22.75	22.79	22.71	23.5
1.4	16QAM	3	0	22.53	22.49	22.54	
1.4	16QAM	3	1	22.56	22.57	22.57	
1.4	16QAM	3	3	22.53	22.49	22.52	23
1.4	16QAM	6	0	22.13	22.14	22.11	
1.4	64QAM	1	0	22.12	22.17	22.13	
1.4	64QAM	1	3	22.22	22.22	22.19	23
1.4	64QAM	1	5	22.14	22.18	22.14	
1.4	64QAM	3	0	22.15	22.17	22.13	
1.4	64QAM	3	1	22.21	22.22	22.18	22
1.4	64QAM	3	3	22.16	22.17	22.12	
1.4	64QAM	6	0	21.07	21.06	21.03	



Band 7_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 20850	Power Middle Ch. / Freq. 21100	Power High Ch. / Freq. 21350	Tune-up limit (dBm)
Channel				2510	2535	2560	
Frequency (MHz)							
20	QPSK	1	0	11.50	11.55	11.56	12.5
20	QPSK	1	49	11.51	11.61	11.61	
20	QPSK	1	99	11.59	11.65	11.67	
20	QPSK	50	0	11.62	11.70	11.66	12.5
20	QPSK	50	24	11.70	11.75	11.72	
20	QPSK	50	50	11.70	11.77	11.78	
20	QPSK	100	0	11.61	11.60	11.62	12.5
20	16QAM	1	0	11.66	11.91	11.96	
20	16QAM	1	49	11.89	12.02	12.01	
20	16QAM	1	99	11.94	12.05	12.02	12.5
20	16QAM	50	0	11.63	11.69	11.70	
20	16QAM	50	24	11.72	11.71	11.73	
20	16QAM	50	50	11.75	11.84	11.80	12.5
20	16QAM	100	0	11.62	11.62	11.63	
20	64QAM	1	0	11.70	11.89	11.78	
20	64QAM	1	49	11.72	11.85	11.88	12.5
20	64QAM	1	99	11.84	11.91	11.94	
20	64QAM	50	0	11.64	11.73	11.70	
20	64QAM	50	24	11.76	11.75	11.79	12.5
20	64QAM	50	50	11.75	11.82	11.86	
20	64QAM	100	0	11.63	11.64	11.62	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	11.52	11.56	11.59	12.5
15	QPSK	1	37	11.52	11.57	11.60	
15	QPSK	1	74	11.62	11.65	11.67	
15	QPSK	36	0	11.62	11.66	11.69	12.5
15	QPSK	36	20	11.73	11.71	11.72	
15	QPSK	36	39	11.75	11.81	11.79	
15	QPSK	75	0	11.64	11.61	11.62	12.5
15	16QAM	1	0	11.68	11.95	11.93	
15	16QAM	1	37	11.95	12.04	11.97	
15	16QAM	1	74	11.96	12.03	12.01	12.5
15	16QAM	36	0	11.65	11.72	11.72	
15	16QAM	36	20	11.73	11.74	11.73	
15	16QAM	36	39	11.72	11.79	11.76	12.5
15	16QAM	75	0	11.66	11.66	11.65	
15	64QAM	1	0	11.72	11.79	11.76	
15	64QAM	1	37	11.79	11.90	11.87	12.5
15	64QAM	1	74	11.86	11.93	11.90	
15	64QAM	36	0	11.65	11.73	11.71	
15	64QAM	36	20	11.77	11.75	11.76	12.5
15	64QAM	36	39	11.61	11.84	11.85	
15	64QAM	75	0	11.67	11.68	11.67	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	11.33	11.45	11.41	12.5
10	QPSK	1	25	11.38	11.50	11.44	
10	QPSK	1	49	11.45	11.56	11.48	
10	QPSK	25	0	11.39	11.45	11.48	12.5
10	QPSK	25	12	11.52	11.51	11.52	
10	QPSK	25	25	11.51	11.57	11.58	
10	QPSK	50	0	11.43	11.40	11.40	12.5
10	16QAM	1	0	11.74	11.77	11.80	
10	16QAM	1	25	11.79	11.84	11.84	
10	16QAM	1	49	11.82	11.89	11.88	12.5
10	16QAM	25	0	11.47	11.55	11.53	
10	16QAM	25	12	11.55	11.59	11.54	
10	16QAM	25	25	11.53	11.60	11.62	12.5
10	16QAM	50	0	11.41	11.44	11.39	
10	64QAM	1	0	11.59	11.62	11.65	
10	64QAM	1	25	11.71	11.77	11.79	12.5
10	64QAM	1	49	11.70	11.81	11.76	
10	64QAM	25	0	11.45	11.50	11.52	
10	64QAM	25	12	11.58	11.57	11.56	12.5
10	64QAM	25	25	11.55	11.61	11.65	
10	64QAM	50	0	11.46	11.42	11.42	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	11.33	11.46	11.44	12.5
5	QPSK	1	12	11.41	11.45	11.50	
5	QPSK	1	24	11.42	11.62	11.48	
5	QPSK	12	0	11.41	11.47	11.50	12.5
5	QPSK	12	7	11.55	11.55	11.58	
5	QPSK	12	13	11.51	11.54	11.55	
5	QPSK	25	0	11.46	11.44	11.54	12.5
5	16QAM	1	0	11.69	11.67	11.80	
5	16QAM	1	12	11.73	11.65	11.77	
5	16QAM	1	24	11.77	11.83	11.87	12.5
5	16QAM	12	0	11.43	11.48	11.54	
5	16QAM	12	7	11.56	11.55	11.59	
5	16QAM	12	13	11.52	11.58	11.55	12.5
5	16QAM	25	0	11.48	11.51	11.56	
5	64QAM	1	0	11.63	11.65	11.79	
5	64QAM	1	12	11.67	11.67	11.73	12.5
5	64QAM	1	24	11.75	11.71	11.80	
5	64QAM	12	0	11.49	11.53	11.59	
5	64QAM	12	7	11.65	11.58	11.63	12.5
5	64QAM	12	13	11.61	11.61	11.59	
5	64QAM	25	0	11.52	11.50	11.58	



Band 25_Ant 2											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 20140	Power Middle Ch. / Freq. 26340	Power High Ch. / Freq. 26590	Turn-up limit (dBm)				
Channel				20140	26340	26590					
Frequency (MHz)				1860	1880	1905					
20	QPSK	1	0	12.62	12.55	12.60	13.5				
20	QPSK	1	49	12.48	12.48	12.52					
20	QPSK	1	99	12.43	12.45	12.46					
20	QPSK	50	0	12.71	12.81	12.83	13.5				
20	QPSK	50	24	12.70	12.67	12.63					
20	QPSK	50	50	12.65	12.65	12.62					
20	QPSK	100	0	12.56	12.55	12.54	13.5				
20	16QAM	1	0	12.99	12.89	12.97					
20	16QAM	1	49	12.89	12.87	12.89					
20	16QAM	1	99	12.80	12.83	12.81	13.5				
20	16QAM	50	0	12.73	12.64	12.63					
20	16QAM	50	24	12.68	12.67	12.63					
20	16QAM	50	50	12.62	12.65	12.66	13.5				
20	16QAM	100	0	12.56	12.56	12.53					
20	64QAM	1	0	12.86	12.75	12.76					
20	64QAM	1	49	12.76	12.74	12.77	13.5				
20	64QAM	1	99	12.68	12.68	12.72					
20	64QAM	50	0	12.75	12.66	12.68					
20	64QAM	50	24	12.71	12.71	12.71	13.5				
20	64QAM	50	50	12.63	12.68	12.67					
20	64QAM	100	0	12.61	12.61	12.59					
Channel				26115	26340	26615	Turn-up limit (dBm)				
Frequency (MHz)				1857.5	1880	1907.5					
15	QPSK	1	0	12.49	12.54	12.58	13.5				
15	QPSK	1	37	12.50	12.47	12.52					
15	QPSK	1	74	12.35	12.51	12.48					
15	QPSK	36	0	12.66	12.54	12.56	13.5				
15	QPSK	36	20	12.65	12.65	12.58					
15	QPSK	36	39	12.58	12.59	12.62					
15	QPSK	75	0	12.61	12.60	12.54	13.5				
15	16QAM	1	0	12.85	12.89	12.93					
15	16QAM	1	37	12.89	12.89	12.89					
15	16QAM	1	74	12.68	12.84	12.83	13.5				
15	16QAM	36	0	12.68	12.57	12.58					
15	16QAM	36	20	12.69	12.64	12.59					
15	16QAM	36	39	12.60	12.57	12.59	13.5				
15	16QAM	75	0	12.63	12.61	12.56					
15	64QAM	1	0	12.75	12.77	12.80					
15	64QAM	1	37	12.76	12.76	12.79	13.5				
15	64QAM	1	74	12.54	12.74	12.75					
15	64QAM	36	0	12.70	12.58	12.63					
15	64QAM	36	20	12.69	12.69	12.66	13.5				
15	64QAM	36	39	12.65	12.62	12.67					
15	64QAM	75	0	12.64	12.62	12.57					
Channel				26090	26340	26640	Turn-up limit (dBm)				
Frequency (MHz)				1855	1880	1910					
10	QPSK	1	0	12.22	12.13	12.33	13.5				
10	QPSK	1	25	12.35	12.32	12.32					
10	QPSK	1	49	12.06	12.08	12.31					
10	QPSK	25	0	12.38	12.28	12.29	13.5				
10	QPSK	25	12	12.49	12.44	12.47					
10	QPSK	25	25	12.38	12.38	12.41					
10	QPSK	50	0	12.43	12.40	12.38	13.5				
10	16QAM	1	0	12.58	12.50	12.75					
10	16QAM	1	25	12.71	12.70	12.69					
10	16QAM	1	49	12.43	12.44	12.69	13.5				
10	16QAM	25	0	12.42	12.30	12.33					
10	16QAM	25	12	12.48	12.48	12.47					
10	16QAM	25	25	12.42	12.39	12.43	13.5				
10	16QAM	50	0	12.42	12.39	12.40					
10	64QAM	1	0	12.46	12.35	12.61					
10	64QAM	1	25	12.69	12.61	12.68	13.5				
10	64QAM	1	49	12.34	12.34	12.63					
10	64QAM	25	0	12.46	12.34	12.38					
10	64QAM	25	12	12.55	12.53	12.54	13.5				
10	64QAM	25	25	12.43	12.43	12.43					
10	64QAM	50	0	12.48	12.44	12.44					
Channel				26095	26340	26695	Turn-up limit (dBm)				
Frequency (MHz)				1852.5	1880	1912.5					
5	QPSK	1	0	12.35	12.24	12.32	13.5				
5	QPSK	1	12	12.43	12.38	12.37					
5	QPSK	1	24	12.35	12.32	12.37					
5	QPSK	12	0	12.47	12.35	12.34	13.5				
5	QPSK	12	7	12.50	12.51	12.46					
5	QPSK	12	13	12.47	12.43	12.41					
5	QPSK	25	0	12.48	12.42	12.39	13.5				
5	16QAM	1	0	12.66	12.57	12.62					
5	16QAM	1	12	12.67	12.63	12.65					
5	16QAM	1	24	12.66	12.65	12.70	13.5				
5	16QAM	12	0	12.51	12.40	12.34					
5	16QAM	12	7	12.56	12.47	12.44					
5	16QAM	12	13	12.51	12.46	12.45	13.5				
5	16QAM	25	0	12.46	12.47	12.43					
5	64QAM	1	0	12.65	12.48	12.56					
5	64QAM	1	12	12.64	12.60	12.59	13.5				
5	64QAM	1	24	12.62	12.59	12.63					
5	64QAM	12	0	12.53	12.43	12.44					
5	64QAM	12	7	12.57	12.59	12.52	13.5				
5	64QAM	12	13	12.54	12.54	12.49					
5	64QAM	25	0	12.53	12.45	12.49					
Channel				26095	26340	26695	Turn-up limit (dBm)				
Frequency (MHz)				1851.5	1880	1914.5					
3	QPSK	1	0	12.37	12.25	12.27	13.5				
3	QPSK	1	8	12.48	12.39	12.38					
3	QPSK	1	14	12.35	12.36	12.35					
3	QPSK	8	0	12.50	12.35	12.38	13.5				
3	QPSK	8	4	12.50	12.48	12.48					
3	QPSK	8	7	12.48	12.46	12.44					
3	QPSK	15	0	12.50	12.43	12.45	13.5				
3	16QAM	1	0	12.72	12.60	12.58					
3	16QAM	1	8	12.75	12.72	12.71					
3	16QAM	1	14	12.74	12.70	12.69	13.5				
3	16QAM	8	0	12.50	12.39	12.39					
3	16QAM	8	4	12.58	12.51	12.51					
3	16QAM	8	7	12.56	12.46	12.50	13.5				
3	16QAM	15	0	12.50	12.47	12.45					
3	64QAM	1	0	12.66	12.50	12.51					
3	64QAM	1	8	12.76	12.69	12.65	13.5				
3	64QAM	1	14	12.67	12.63	12.64					
3	64QAM	8	0	12.55	12.46	12.46					
3	64QAM	8	4	12.62	12.54	12.51	13.5				
3	64QAM	8	7	12.57	12.51	12.49					
3	64QAM	15	0	12.54	12.46	12.48					
Channel				26047	26340	26683	Turn-up limit (dBm)				
Frequency (MHz)				1850.7	1880	1914.3					
1.4	QPSK	1	0	12.33	12.28	12.18	13.5				
1.4	QPSK	1	3	12.41	12.35	12.34					
1.4	QPSK	1	5	12.33	12.27	12.29					
1.4	QPSK	3	0	12.33	12.27	12.20	13.5				
1.4	QPSK	3	1	12.38	12.32	12.25					
1.4	QPSK	3	3	12.38	12.30	12.26					
1.4	QPSK	6	0	12.44	12.36	12.29	13.5				

Band 26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 26765	Power Middle Ch. / Freq. 26865	Power High Ch. / Freq. 26965	Tune-up limit (dBm)		
Channel				821.5	831.5	841.5			
Frequency (MHz)				23.16	23.12	23.11			
15	QPSK	1	0	23.17	23.12	23.13			
15	QPSK	1	37	23.23	23.24	23.14			
15	QPSK	36	0	22.12	22.12	22.09			
15	QPSK	36	20	22.28	22.22	22.26			
15	QPSK	36	39	22.20	22.22	22.18			
15	QPSK	75	0	22.22	22.14	22.12			
15	16QAM	1	0	22.59	22.43	22.42			
15	16QAM	1	37	22.47	22.50	22.47			
15	16QAM	1	74	22.49	22.49	22.43			
15	16QAM	36	0	21.13	21.14	21.14			
15	16QAM	36	20	21.29	21.22	21.26			
15	16QAM	36	39	21.24	21.23	21.19			
15	16QAM	75	0	21.22	21.15	21.13			
15	64QAM	1	0	21.31	21.30	21.35			
15	64QAM	1	37	21.44	21.42	21.38			
15	64QAM	1	74	21.46	21.46	21.28			
15	64QAM	36	0	20.17	20.21	20.15			
15	64QAM	36	20	20.31	20.24	20.31			
15	64QAM	36	39	20.30	20.28	20.26			
15	64QAM	75	0	20.24	20.15	20.14			
Channel				26740	26865	26990	Tune-up limit (dBm)		
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	23.04	22.98	22.99			
10	QPSK	1	25	23.04	22.99	22.95			
10	QPSK	1	49	22.99	23.02	22.90			
10	QPSK	25	0	21.91	21.97	21.94			
10	QPSK	25	12	22.10	22.09	22.05			
10	QPSK	25	25	22.02	22.09	22.04			
10	QPSK	50	0	22.00	21.99	21.97			
10	16QAM	1	0	22.38	22.35	22.37			
10	16QAM	1	25	22.35	22.35	22.34			
10	16QAM	1	49	22.36	22.35	22.28			
10	16QAM	25	0	20.89	20.97	20.97			
10	16QAM	25	12	21.10	21.12	21.09			
10	16QAM	25	25	21.04	21.10	21.03			
10	16QAM	50	0	21.02	21.01	20.97			
10	64QAM	1	0	21.23	21.21	21.20			
10	64QAM	1	25	21.22	21.30	21.27			
10	64QAM	1	49	21.27	21.29	21.21			
10	64QAM	25	0	19.95	19.99	20.00			
10	64QAM	25	12	20.14	20.15	20.13			
10	64QAM	25	25	20.05	20.13	20.08			
10	64QAM	50	0	20.05	20.03	19.97			
Channel				26715	26865	27015	Tune-up limit (dBm)		
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	22.88	22.95	22.95			
5	QPSK	1	12	23.03	23.04	22.99			
5	QPSK	1	24	23.09	23.06	22.94			
5	QPSK	12	0	22.02	22.06	22.01			
5	QPSK	12	7	22.15	22.18	22.09			
5	QPSK	12	13	22.10	22.14	22.04			
5	QPSK	25	0	22.11	22.06	22.01			
5	16QAM	1	0	22.18	22.28	22.32			
5	16QAM	1	12	22.35	22.28	22.24			
5	16QAM	1	24	22.30	22.32	22.23			
5	16QAM	12	0	21.03	21.07	21.02			
5	16QAM	12	7	21.17	21.20	21.11			
5	16QAM	12	13	21.12	21.16	21.04			
5	16QAM	25	0	21.11	21.08	21.02			
5	64QAM	1	0	21.11	21.25	21.17			
5	64QAM	1	12	21.26	21.26	21.16			
5	64QAM	1	24	21.25	21.29	21.14			
5	64QAM	12	0	20.07	20.12	20.08			
5	64QAM	12	7	20.21	20.27	20.16			
5	64QAM	12	13	20.19	20.22	20.12			
5	64QAM	25	0	20.12	20.11	20.04			
Channel				26705	26865	27025	Tune-up limit (dBm)		
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	22.95	22.98	22.99			
3	QPSK	1	8	23.10	23.11	22.98			
3	QPSK	1	14	22.99	23.07	22.83			
3	QPSK	8	0	22.02	22.06	22.04			
3	QPSK	8	4	22.14	22.21	22.09			
3	QPSK	8	7	22.13	22.18	22.04			
3	QPSK	15	0	22.10	22.07	22.03			
3	16QAM	1	0	22.27	22.27	22.27			
3	16QAM	1	8	22.31	22.36	22.33			
3	16QAM	1	14	22.31	22.36	22.19			
3	16QAM	8	0	21.08	21.13	21.11			
3	16QAM	8	4	21.19	21.23	21.12			
3	16QAM	8	7	21.16	21.16	21.08			
3	16QAM	15	0	21.12	21.11	21.06			
3	64QAM	1	0	21.13	21.19	21.21			
3	64QAM	1	8	21.32	21.31	21.19			
3	64QAM	1	14	21.23	21.25	21.12			
3	64QAM	8	0	20.10	20.14	20.12			
3	64QAM	8	4	20.22	20.26	20.16			
3	64QAM	8	7	20.19	20.21	20.11			
3	64QAM	15	0	20.15	20.12	20.08			
Channel				26697	26865	27033	Tune-up limit (dBm)		
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	22.90	22.88	22.83			
1.4	QPSK	1	3	23.02	22.99	22.88			
1.4	QPSK	1	5	22.99	22.96	22.81			
1.4	QPSK	3	0	22.96	22.89	22.83			
1.4	QPSK	3	1	22.98	22.94	22.88			
1.4	QPSK	3	3	22.96	22.95	22.85			
1.4	QPSK	6	0	22.04	21.96	21.95			
1.4	16QAM	1	0	22.23	22.18	22.15			
1.4	16QAM	1	3	22.31	22.33	22.26			
1.4	16QAM	1	5	22.28	22.25	22.14			
1.4	16QAM	3	0	22.01	21.95	21.89			
1.4	16QAM	3	1	22.08	22.02	21.93			
1.4	16QAM	3	3	22.01	22.00	21.89			
1.4	16QAM	6	0	21.13	21.12	21.06			
1.4	64QAM	1	0	21.13	21.10	21.08			
1.4	64QAM	1	3	21.24	21.23	21.08			
1.4	64QAM	1	5	21.18	21.17	21.07			
1.4	64QAM	3	0	21.17	21.10	21.06			
1.4	64QAM	3	1	21.24	21.16	21.10			
1.4	64QAM	3	3	21.17	21.18	21.05			
1.4	64QAM	6	0	20.07	20.04	19.97			

Band 66_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 132072	Power Middle Ch. Freq. 132322	Power High Ch. Freq. 132572	Tune-up limit (dBm)			
Channel				Frequency (MHz)						
				1720	1745	1770				
20	QPSK	1	0	12.32	12.34	12.51	13.5			
20	QPSK	1	49	12.44	12.48	12.52				
20	QPSK	1	99	12.17	12.19	12.44				
20	QPSK	50	0	12.60	12.61	12.61	13.5			
20	QPSK	50	24	12.67	12.61	12.69				
20	QPSK	50	50	12.49	12.53	12.53				
20	QPSK	100	0	12.59	12.50	12.60	13.5			
20	16QAM	1	0	12.64	12.64	12.52				
20	16QAM	1	49	12.75	12.80	12.84				
20	16QAM	1	99	12.47	12.48	12.72	13.5			
20	16QAM	50	0	12.53	12.58	12.58				
20	16QAM	50	24	12.65	12.56	12.64				
20	16QAM	50	50	12.51	12.51	12.52	13.5			
20	16QAM	100	0	12.54	12.47	12.80				
20	64QAM	1	0	12.59	12.59	12.82				
20	64QAM	1	49	12.78	12.78	12.76	13.5			
20	64QAM	1	99	12.48	12.49	12.68				
20	64QAM	50	0	12.62	12.63	12.62				
20	64QAM	50	24	12.64	12.61	12.71	13.5			
20	64QAM	50	50	12.55	12.54	12.54				
20	64QAM	100	0	12.60	12.52	12.60				
Channel				132022	132322	132697	Tune-up limit (dBm)			
				Frequency (MHz)						
				1717.5	1745	1772.5				
15	QPSK	1	0	12.51	12.51	12.58	13.5			
15	QPSK	1	37	12.54	12.54	12.53				
15	QPSK	1	74	12.29	12.34	12.34				
15	QPSK	36	0	12.57	12.60	12.61	13.5			
15	QPSK	36	20	12.64	12.65	12.68				
15	QPSK	36	39	12.52	12.56	12.58				
15	QPSK	75	0	12.60	12.54	12.64	13.5			
15	16QAM	1	0	12.76	12.73	12.86				
15	16QAM	1	37	12.75	12.79	12.75				
15	16QAM	1	74	12.56	12.59	12.71	13.5			
15	16QAM	36	0	12.58	12.57	12.81				
15	16QAM	36	20	12.63	12.64	12.67				
15	16QAM	36	39	12.51	12.53	12.53	13.5			
15	16QAM	75	0	12.59	12.51	12.80				
15	64QAM	1	0	12.70	12.70	12.82				
15	64QAM	1	37	12.71	12.78	12.78	13.5			
15	64QAM	1	74	12.51	12.56	12.77				
15	64QAM	36	0	12.51	12.60	12.58				
15	64QAM	36	20	12.55	12.64	12.66	13.5			
15	64QAM	36	39	12.50	12.52	12.56				
15	64QAM	75	0	12.56	12.53	12.63				
Channel				132022	132322	132622	Tune-up limit (dBm)			
				Frequency (MHz)						
				1715	1745	1775				
10	QPSK	1	0	12.20	12.22	12.22	13.5			
10	QPSK	1	25	12.29	12.33	12.33				
10	QPSK	1	49	12.07	12.01	12.46				
10	QPSK	25	0	12.30	12.35	12.38	13.5			
10	QPSK	25	12	12.48	12.39	12.53				
10	QPSK	25	25	12.37	12.39	12.45				
10	QPSK	50	0	12.41	12.34	12.44	13.5			
10	16QAM	1	0	12.55	12.58	12.61				
10	16QAM	1	25	12.68	12.72	12.70				
10	16QAM	1	49	12.45	12.44	12.44	13.5			
10	16QAM	25	0	12.32	12.27	12.30				
10	16QAM	25	12	12.45	12.34	12.46				
10	16QAM	25	25	12.36	12.33	12.38	13.5			
10	16QAM	50	0	12.34	12.25	12.37				
10	64QAM	1	0	12.45	12.47	12.46				
10	64QAM	1	25	12.61	12.60	12.57	13.5			
10	64QAM	1	49	12.35	12.30	12.34				
10	64QAM	25	0	12.33	12.33	12.38				
10	64QAM	25	12	12.50	12.41	12.54	13.5			
10	64QAM	25	25	12.41	12.40	12.41				
10	64QAM	50	0	12.45	12.34	12.43				
Channel				131997	132322	132657	Tune-up limit (dBm)			
				Frequency (MHz)						
				1712.5	1745	1777.5				
5	QPSK	1	0	12.27	12.22	12.30	13.5			
5	QPSK	1	12	12.46	12.38	12.41				
5	QPSK	1	24	12.26	12.36	12.34				
5	QPSK	12	0	12.48	12.35	12.38	13.5			
5	QPSK	12	7	12.49	12.47	12.48				
5	QPSK	12	13	12.46	12.43	12.47				
5	QPSK	25	0	12.44	12.43	12.49	13.5			
5	16QAM	1	0	12.63	12.65	12.64				
5	16QAM	1	12	12.67	12.62	12.67				
5	16QAM	1	24	12.69	12.70	12.67	13.5			
5	16QAM	12	0	12.50	12.40	12.41				
5	16QAM	12	7	12.56	12.53	12.52				
5	16QAM	12	13	12.51	12.48	12.50	13.5			
5	16QAM	25	0	12.43	12.43	12.46				
5	64QAM	1	0	12.68	12.72	12.69				
5	64QAM	1	12	12.84	12.79	12.87	13.5			
5	64QAM	1	24	12.85	12.71	12.75				
5	64QAM	12	0	12.50	12.40	12.42				
5	64QAM	12	7	12.57	12.52	12.56	13.5			
5	64QAM	12	13	12.51	12.49	12.50				
5	64QAM	25	0	12.48	12.48	12.50				
Channel				131987	132322	132657	Tune-up limit (dBm)			
				Frequency (MHz)						
				1710.7	1745	1779.3				
1.4	QPSK	1	0	12.14	12.28	12.24	13.5			
1.4	QPSK	1	3	12.26	12.32	12.39				
1.4	QPSK	1	5	12.28	12.27	12.36				
1.4	QPSK	3	0	12.33	12.31	12.39	13.5			
1.4	QPSK	3	1	12.44	12.36	12.39				
1.4	QPSK	3	3	12.33	12.33	12.39				
1.4	QPSK	6	0	12.39	12.38	12.31	13.5			
1.4	16QAM	1	0	12.61	12.59	12.63				
1.4	16QAM	1	2	12.69	12.65	12.71				
1.4	16QAM	1	5	12.53	12.59	12.55	13.5			
1.4	16QAM	3	0	12.52	12.42	12.38				
1.4	16QAM	3	1	12.60	12.44	12.48				
1.4	16QAM	3	3	12.52	12.40	12.53	13.5			
1.4	16QAM	6	0	12.41	12.40	12.33				
1.4	64QAM	1	0	12.82	12.65	12.58				
1.4	64QAM	1	3	12.89	12.74	12.77	13.5			
1.4	64QAM	1	5	12.75	12.63	12.78				
1.4	64QAM	3	0	12.51	12.48	12.50				
1.4	64QAM	3	1	12.60	12.60	12.54	13.5			
1.4	64QAM	3	1	12.55	12.54	12.57				
1.4	64QAM	6	0	12.51	12.40	12.38				



Band 2_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 18700	Power Middle Ch. Freq. 18800	Power High Ch. Freq. 19100	Tune-up limit (dBm)
Channel				18600	18800	19000	
Frequency (MHz)				18600	18800	19000	
20	QPSK	1	0	12.56	12.50	12.53	14
20	QPSK	1	49	12.45	12.48	12.45	
20	QPSK	1	99	12.38	12.46	12.41	
20	QPSK	50	0	12.54	12.48	12.48	
20	QPSK	50	24	12.63	12.56	12.62	
20	QPSK	50	50	12.50	12.55	12.52	14
20	QPSK	100	0	12.51	12.44	12.53	
20	16QAM	1	0	12.91	12.85	12.87	
20	16QAM	1	49	12.79	12.82	12.82	
20	16QAM	1	99	12.73	12.80	12.75	
20	16QAM	50	0	12.55	12.48	12.48	14
20	16QAM	50	24	12.61	12.55	12.63	
20	16QAM	50	50	12.52	12.54	12.55	
20	16QAM	100	0	12.52	12.45	12.56	
20	64QAM	1	0	12.84	12.71	12.75	
20	64QAM	1	49	12.68	12.70	12.69	14
20	64QAM	1	99	12.64	12.70	12.67	
20	64QAM	50	0	12.56	12.49	12.52	
20	64QAM	50	24	12.64	12.57	12.68	
20	64QAM	50	50	12.52	12.57	12.57	
20	64QAM	100	0	12.54	12.47	12.57	Tune-up limit (dBm)
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	18800	1902.5	
15	QPSK	1	0	12.43	12.53	12.54	14
15	QPSK	1	37	12.45	12.46	12.48	
15	QPSK	1	74	12.31	12.49	12.46	
15	QPSK	36	0	12.55	12.49	12.51	
15	QPSK	36	20	12.64	12.63	12.55	
15	QPSK	36	39	12.58	12.61	12.57	14
15	QPSK	75	0	12.57	12.51	12.49	
15	16QAM	1	0	12.79	12.85	12.87	
15	16QAM	1	37	12.82	12.85	12.85	
15	16QAM	1	74	12.64	12.82	12.79	
15	16QAM	36	0	12.58	12.50	12.51	14
15	16QAM	36	20	12.60	12.66	12.58	
15	16QAM	36	39	12.57	12.60	12.58	
15	16QAM	75	0	12.59	12.52	12.54	
15	64QAM	1	0	12.64	12.72	12.74	
15	64QAM	1	37	12.73	12.72	12.75	14
15	64QAM	1	74	12.53	12.73	12.67	
15	64QAM	36	0	12.62	12.54	12.54	
15	64QAM	36	20	12.64	12.68	12.61	
15	64QAM	36	39	12.62	12.64	12.65	
15	64QAM	75	0	12.60	12.53	12.56	Tune-up limit (dBm)
Channel				18650	18900	19150	
Frequency (MHz)				1855	18800	1905	
10	QPSK	1	0	12.10	12.03	12.38	14
10	QPSK	1	25	12.33	12.33	12.33	
10	QPSK	1	49	12.01	12.03	12.32	
10	QPSK	25	0	12.34	12.26	12.26	
10	QPSK	25	12	12.45	12.37	12.42	
10	QPSK	25	25	12.34	12.34	12.33	14
10	QPSK	50	0	12.37	12.30	12.37	
10	16QAM	1	0	12.48	12.44	12.79	
10	16QAM	1	25	12.70	12.72	12.75	
10	16QAM	1	49	12.36	12.41	12.68	
10	16QAM	25	0	12.37	12.31	12.32	14
10	16QAM	25	12	12.45	12.36	12.46	
10	16QAM	25	25	12.33	12.35	12.32	
10	16QAM	50	0	12.36	12.30	12.38	
10	64QAM	1	0	12.38	12.31	12.67	
10	64QAM	1	25	12.67	12.66	12.65	14
10	64QAM	1	49	12.29	12.33	12.64	
10	64QAM	25	0	12.41	12.34	12.32	
10	64QAM	25	12	12.52	12.43	12.49	
10	64QAM	25	25	12.38	12.36	12.40	
10	64QAM	50	0	12.40	12.32	12.42	Tune-up limit (dBm)
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	18800	1907.5	
5	QPSK	1	0	12.30	12.22	12.22	14
5	QPSK	1	12	12.39	12.40	12.33	
5	QPSK	1	24	12.27	12.25	12.21	
5	QPSK	12	0	12.45	12.37	12.33	
5	QPSK	12	7	12.49	12.46	12.42	
5	QPSK	12	13	12.44	12.38	12.40	14
5	QPSK	25	0	12.40	12.37	12.32	
5	16QAM	1	0	12.64	12.55	12.52	
5	16QAM	1	12	12.66	12.65	12.61	
5	16QAM	1	24	12.57	12.58	12.54	
5	16QAM	12	0	12.45	12.35	12.37	14
5	16QAM	12	7	12.51	12.47	12.43	
5	16QAM	12	13	12.40	12.44	12.36	
5	16QAM	25	0	12.44	12.44	12.38	
5	64QAM	1	0	12.57	12.48	12.48	
5	64QAM	1	12	12.62	12.61	12.60	14
5	64QAM	1	24	12.52	12.48	12.45	
5	64QAM	12	0	12.54	12.46	12.42	
5	64QAM	12	7	12.57	12.58	12.46	
5	64QAM	12	13	12.51	12.46	12.49	
5	64QAM	25	0	12.44	12.46	12.41	Tune-up limit (dBm)
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	18800	1906.5	
3	QPSK	1	0	12.37	12.28	12.31	14
3	QPSK	1	8	12.44	12.42	12.41	
3	QPSK	1	14	12.33	12.33	12.29	
3	QPSK	8	0	12.46	12.42	12.45	
3	QPSK	8	4	12.52	12.51	12.44	
3	QPSK	8	7	12.48	12.41	12.42	14
3	QPSK	15	0	12.48	12.46	12.44	
3	16QAM	1	0	12.68	12.60	12.63	
3	16QAM	1	8	12.78	12.79	12.73	
3	16QAM	1	14	12.69	12.64	12.59	
3	16QAM	8	0	12.55	12.44	12.48	14
3	16QAM	8	4	12.53	12.55	12.47	
3	16QAM	8	7	12.51	12.45	12.48	
3	16QAM	15	0	12.51	12.45	12.47	
3	64QAM	1	0	12.63	12.56	12.57	
3	64QAM	1	8	12.75	12.69	12.64	14
3	64QAM	1	14	12.62	12.58	12.50	
3	64QAM	8	0	12.53	12.45	12.50	
3	64QAM	8	4	12.60	12.55	12.54	
3	64QAM	8	7	12.50	12.49	12.49	
3	64QAM	15	0	12.53	12.45	12.48	Tune-up limit (dBm)
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	18800	1906.3	
1.4	QPSK	1	0	12.28	12.29	12.22	14
1.4	QPSK	1	3	12.35	12.34	12.31	
1.4	QPSK	1	5	12.29	12.25	12.29	
1.4	QPSK	3	0	12.35	12.33	12.22	
1.4	QPSK	3	1	12.33	12.30	12.25	
1.4	QPSK	3	3	12.31	12.27	12.26	14
1.4	QPSK	6	0	12.38	12.36	12.34	
1.4	16QAM	1	0	12.64	12.62	12.56	
1.4	16QAM	1	3	12.73	12.68	12.66	
1.4	16QAM	1	5	12.67	12.62	12.55	
1.4	16QAM	3	0	12.40	12.38	12.33	14
1.4	16QAM	3	1	12.45	12.43	12.40	
1.4	16QAM	3	3	12.39	12.39	12.34	
1.4	16QAM	6	0	12.46	12.50	12.44	
1.4	64QAM	1	0	12.58	12.52	12.53	
1.4	64QAM	1	3	12.66	12.59	12.55	14
1.4	64QAM	1	5	12.54	12.54	12.49	
1.4	64QAM	3	0	12.58	12.51	12.46	
1.4	64QAM	3	1	12.61	12.58	12.50	
1.4	64QAM	3	3	12.53	12.52	12.46	
1.4	64QAM	6	0	12.41	12.41	12.37	14

Band 4_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				1720	1732.5	1745					
Frequency (MHz)				12.38	12.41	12.41					
20	QPSK	1	0	12.38	12.41	12.41	14				
20	QPSK	1	49	12.53	12.55	12.54					
20	QPSK	1	99	12.22	12.16	12.14					
20	QPSK	50	0	12.63	12.60	12.62	14				
20	QPSK	50	24	12.73	12.66	12.63					
20	QPSK	50	50	12.58	12.62	12.58					
20	QPSK	100	0	12.62	12.54	12.62	14				
20	16QAM	1	0	12.72	12.75	12.76					
20	16QAM	1	49	12.87	12.91	12.90					
20	16QAM	1	99	12.55	12.53	12.51	14				
20	16QAM	50	0	12.57	12.61	12.60					
20	16QAM	50	24	12.68	12.64	12.61					
20	16QAM	50	50	12.58	12.58	12.57	14				
20	16QAM	100	0	12.60	12.52	12.60					
20	64QAM	1	0	12.52	12.58	12.54					
20	64QAM	1	49	12.72	12.78	12.71	14				
20	64QAM	1	99	12.41	12.38	12.35					
20	64QAM	50	0	12.59	12.62	12.60					
20	64QAM	50	24	12.72	12.67	12.64	14				
20	64QAM	50	50	12.60	12.59	12.58					
20	64QAM	100	0	12.63	12.56	12.62					
Channel				20025	20175	20350	Tune-up limit (dBm)				
Frequency (MHz)				1717.5	1732.5	1747.5					
15	QPSK	1	0	12.50	12.50	12.49	14				
15	QPSK	1	37	12.56	12.57	12.53					
15	QPSK	1	74	12.36	12.38	12.35					
15	QPSK	36	0	12.60	12.62	12.58	14				
15	QPSK	36	20	12.72	12.65	12.70					
15	QPSK	36	39	12.65	12.63	12.63					
15	QPSK	75	0	12.64	12.60	12.65	14				
15	16QAM	1	0	12.80	12.84	12.82					
15	16QAM	1	37	12.89	12.90	12.87					
15	16QAM	1	74	12.69	12.71	12.68	14				
15	16QAM	36	0	12.60	12.62	12.57					
15	16QAM	36	20	12.72	12.64	12.70					
15	16QAM	36	39	12.63	12.64	12.61	14				
15	16QAM	75	0	12.66	12.57	12.62					
15	64QAM	1	37	12.77	12.81	12.75		14			
15	64QAM	1	74	12.54	12.55	12.55					
15	64QAM	36	0	12.61	12.65	12.62					
15	64QAM	36	20	12.70	12.67	12.73	14				
15	64QAM	36	39	12.65	12.67	12.66					
15	64QAM	75	0	12.66	12.61	12.64					
Channel				20000	20175	20350	Tune-up limit (dBm)				
Frequency (MHz)				1715	1732.5	1750					
10	QPSK	1	0	12.16	12.16	12.17	14				
10	QPSK	1	25	12.38	12.40	12.36					
10	QPSK	1	49	12.11	12.12	12.07					
10	QPSK	25	0	12.33	12.35	12.31	14				
10	QPSK	25	12	12.49	12.42	12.44					
10	QPSK	25	25	12.42	12.42	12.41					
10	QPSK	50	0	12.47	12.36	12.35	14				
10	16QAM	1	0	12.53	12.52	12.51					
10	16QAM	1	25	12.71	12.75	12.73					
10	16QAM	1	49	12.43	12.46	12.44	14				
10	16QAM	25	0	12.33	12.34	12.32					
10	16QAM	25	12	12.49	12.43	12.43					
10	16QAM	25	25	12.41	12.41	12.42	14				
10	16QAM	50	0	12.44	12.36	12.31					
10	64QAM	1	0	12.33	12.39	12.38					
10	64QAM	1	25	12.65	12.70	12.66	14				
10	64QAM	1	49	12.35	12.38	12.36					
10	64QAM	25	0	12.35	12.39	12.35					
10	64QAM	25	12	12.52	12.50	12.50	14				
10	64QAM	25	25	12.43	12.45	12.45					
10	64QAM	50	0	12.45	12.38	12.34					
Channel				19975	20175	20375	Tune-up limit (dBm)				
Frequency (MHz)				1712.5	1732.5	1752.5					
5	QPSK	1	0	12.28	12.31	12.27	14				
5	QPSK	1	12	12.40	12.45	12.37					
5	QPSK	1	24	12.37	12.40	12.33					
5	QPSK	12	0	12.42	12.42	12.38	14				
5	QPSK	12	7	12.52	12.50	12.45					
5	QPSK	12	13	12.49	12.51	12.45					
5	QPSK	25	0	12.47	12.42	12.40	14				
5	16QAM	1	0	12.57	12.62	12.56					
5	16QAM	1	12	12.66	12.67	12.60					
5	16QAM	1	24	12.66	12.68	12.65	14				
5	16QAM	12	0	12.42	12.43	12.39					
5	16QAM	12	7	12.51	12.48	12.44					
5	16QAM	12	13	12.48	12.49	12.42	14				
5	16QAM	25	0	12.45	12.40	12.41					
5	64QAM	1	0	12.45	12.50	12.44					
5	64QAM	1	12	12.55	12.58	12.53	14				
5	64QAM	1	24	12.51	12.56	12.53					
5	64QAM	12	0	12.50	12.50	12.48					
5	64QAM	12	7	12.59	12.56	12.50	14				
5	64QAM	12	13	12.55	12.57	12.54					
5	64QAM	25	0	12.46	12.44	12.39					
Channel				19965	20175	20385	Tune-up limit (dBm)				
Frequency (MHz)				1710.7	1732.5	1754.3					
3	QPSK	1	0	12.32	12.37	12.39	14				
3	QPSK	1	8	12.46	12.48	12.46					
3	QPSK	1	14	12.39	12.42	12.36					
3	QPSK	8	0	12.46	12.49	12.46	14				
3	QPSK	8	4	12.52	12.51	12.52					
3	QPSK	8	7	12.50	12.51	12.46					
3	QPSK	15	0	12.46	12.46	12.49	14				
3	16QAM	1	0	12.63	12.65	12.69					
3	16QAM	1	8	12.75	12.77	12.72					
3	16QAM	1	14	12.70	12.73	12.68	14				
3	16QAM	8	0	12.43	12.49	12.48					
3	16QAM	8	4	12.55	12.52	12.55					
3	16QAM	8	7	12.49	12.52	12.48	14				
3	16QAM	15	0	12.51	12.46	12.48					
3	64QAM	1	0	12.50	12.53	12.56					
3	64QAM	1	8	12.65	12.69	12.66	14				
3	64QAM	1	14	12.58	12.61	12.57					
3	64QAM	8	0	12.50	12.54	12.55					
3	64QAM	8	4	12.57	12.55	12.57	14				
3	64QAM	8	7	12.55	12.58	12.55					
3	64QAM	15	0	12.53	12.49	12.48					
Channel				19957	20175	20393	Tune-up limit (dBm)				
Frequency (MHz)				1710.7	1732.5	1754.3					
1.4	QPSK	1	0	12.24	12.33	12.24	14				
1.4	QPSK	1	3	12.39	12.40	12.37					
1.4	QPSK	1	5	12.31	12.34	12.31					
1.4	QPSK	3	0	12.32	12.36	12.22	14				
1.4	QPSK	3	1	12.35	12.36	12.34					
1.4	QPSK	3	3	12.33	12.33	12.30					
1.4	16QAM	1	0	12.58	12.64	12.62	14				
1.4	16QAM	1	3	12.71	12.72	12.73					
1.4	16QAM	1	5	12.63	12.63	12.62					
1.4	16QAM	3	0	12.44	12.41	12.32	14				
1.4	16QAM	3	1	12.44	12.42	12.37					
1.4	16QAM	3	3	12.40	12.40	12.37					
1.4	16QAM	6	0	12.49	12.55	12.45	14				
1.4	16QAM	6	1	12.54	12.54	12.44					
1.4	16QAM	3	3	12.59	12.61	12.55					
1.4	16QAM	1	5	12.51	12.51	12.51	14				
1.4	64QAM	3	0	12.51	12.55	12.47					
1.4	64QAM	3	1	12.59	12.61	12.56					
1.4	64QAM	3	3	12.50	12.56	12.53					

Band 5_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				20450	20525	20600					
Frequency (MHz)				829	836.5	844					
10	QPSK	1	0	22.47	22.48	22.56	24				
10	QPSK	1	25	22.43	22.45	22.56					
10	QPSK	1	49	22.47	22.48	22.46					
10	QPSK	25	0	22.53	22.53	22.62	24				
10	QPSK	25	12	22.62	22.61	22.59					
10	QPSK	25	25	22.56	22.56	22.62					
10	QPSK	50	0	22.53	22.53	22.52	24				
10	16QAM	1	0	22.85	22.86	22.92					
10	16QAM	1	25	22.81	22.85	22.88					
10	16QAM	1	49	22.85	22.84	22.82	23				
10	16QAM	25	0	22.05	22.06	22.09					
10	16QAM	25	12	22.16	22.14	22.08					
10	16QAM	25	25	22.11	22.12	22.09	23				
10	16QAM	50	0	22.04	22.07	21.97					
10	64QAM	1	0	22.20	22.22	22.27					
10	64QAM	1	25	22.26	22.29	22.30	23				
10	64QAM	1	49	22.23	22.25	22.21					
10	64QAM	25	0	21.09	21.08	21.12					
10	64QAM	25	12	21.20	21.18	21.14	22				
10	64QAM	25	25	21.14	21.13	21.12					
10	64QAM	50	0	21.09	21.10	21.03					
Channel				20425	20525	20625	Tune-up limit (dBm)				
Frequency (MHz)				826.5	836.5	846.5					
5	QPSK	1	0	22.37	22.40	22.45	24				
5	QPSK	1	12	22.51	22.53	22.57					
5	QPSK	1	24	22.44	22.46	22.45					
5	QPSK	12	0	22.52	22.50	22.56	24				
5	QPSK	12	7	22.62	22.61	22.68					
5	QPSK	12	13	22.59	22.58	22.60					
5	QPSK	25	0	22.59	22.57	22.62	24				
5	16QAM	1	0	22.73	22.72	22.73					
5	16QAM	1	12	22.75	22.76	22.84					
5	16QAM	1	24	22.76	22.80	22.80	23				
5	16QAM	12	0	22.05	22.07	22.05					
5	16QAM	12	7	22.14	22.18	22.13					
5	16QAM	12	13	22.11	22.13	22.10	23				
5	16QAM	25	0	22.09	22.11	22.09					
5	64QAM	1	0	22.13	22.14	22.13					
5	64QAM	1	12	22.20	22.22	22.21	23				
5	64QAM	1	24	22.16	22.19	22.14					
5	64QAM	12	0	21.09	21.12	21.11					
5	64QAM	12	7	21.20	21.23	21.20	22				
5	64QAM	12	13	21.17	21.19	21.15					
5	64QAM	25	0	21.15	21.14	21.12					
Channel				20415	20525	20635	Tune-up limit (dBm)				
Frequency (MHz)				825.5	836.5	847.5					
3	QPSK	1	0	22.41	22.40	22.44	24				
3	QPSK	1	8	22.55	22.57	22.57					
3	QPSK	1	14	22.59	22.47	22.52					
3	QPSK	8	0	22.52	22.53	22.55	24				
3	QPSK	8	4	22.62	22.62	22.65					
3	QPSK	8	7	22.58	22.61	22.59					
3	QPSK	15	0	22.59	22.58	22.54	24				
3	16QAM	1	0	22.71	22.77	22.77					
3	16QAM	1	8	22.91	22.86	22.87					
3	16QAM	1	14	22.85	22.82	22.83	23				
3	16QAM	8	0	22.10	22.12	22.10					
3	16QAM	8	4	22.18	22.20	22.19					
3	16QAM	8	7	22.16	22.17	22.15	23				
3	16QAM	15	0	22.14	22.17	22.07					
3	64QAM	1	0	22.16	22.14	22.15					
3	64QAM	1	8	22.25	22.32	22.27	23				
3	64QAM	1	14	22.21	22.23	22.19					
3	64QAM	8	0	21.13	21.14	21.12					
3	64QAM	8	4	21.21	21.20	21.20	22				
3	64QAM	8	7	21.20	21.18	21.18					
3	64QAM	15	0	21.14	21.15	21.07					
Channel				20407	20525	20643	Tune-up limit (dBm)				
Frequency (MHz)				824.7	836.5	848.3					
1.4	QPSK	1	0	22.36	22.41	22.47	24				
1.4	QPSK	1	3	22.49	22.51	22.52					
1.4	QPSK	1	5	22.41	22.40	22.45					
1.4	QPSK	3	0	22.45	22.44	22.46	24				
1.4	QPSK	3	1	22.47	22.49	22.49					
1.4	QPSK	3	3	22.46	22.46	22.47					
1.4	QPSK	6	0	22.53	22.54	22.53	24				
1.4	16QAM	1	0	22.70	22.69	22.74					
1.4	16QAM	1	3	22.81	22.85	22.78					
1.4	16QAM	1	5	22.75	22.79	22.71	24				
1.4	16QAM	3	0	22.53	22.49	22.54					
1.4	16QAM	3	1	22.56	22.57	22.57					
1.4	16QAM	3	3	22.53	22.49	22.52	23				
1.4	16QAM	6	0	22.13	22.14	22.11					
1.4	64QAM	1	0	22.12	22.17	22.13					
1.4	64QAM	1	3	22.22	22.22	22.19	23				
1.4	64QAM	1	5	22.14	22.18	22.14					
1.4	64QAM	3	0	22.15	22.17	22.13					
1.4	64QAM	3	1	22.21	22.22	22.18	22				
1.4	64QAM	3	3	22.16	22.17	22.12					
1.4	64QAM	6	0	21.07	21.06	21.03					



Band 7_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 20850	Power Middle Ch. / Freq. 21100	Power High Ch. / Freq. 21350	Tune-up limit (dBm)
Channel				2510	2535	2560	
Frequency (MHz)							
20	QPSK	1	0	11.50	11.55	11.56	13
20	QPSK	1	49	11.51	11.61	11.61	
20	QPSK	1	99	11.59	11.65	11.67	
20	QPSK	50	0	11.62	11.70	11.68	13
20	QPSK	50	24	11.70	11.75	11.72	
20	QPSK	50	50	11.70	11.77	11.76	
20	QPSK	100	0	11.61	11.60	11.62	13
20	16QAM	1	0	11.86	11.91	11.96	
20	16QAM	1	49	11.89	12.02	12.01	
20	16QAM	1	99	11.94	12.05	12.02	13
20	16QAM	50	0	11.63	11.69	11.70	
20	16QAM	50	24	11.72	11.71	11.73	
20	16QAM	50	50	11.75	11.84	11.80	13
20	16QAM	100	0	11.62	11.62	11.63	
20	64QAM	1	0	11.70	11.89	11.78	
20	64QAM	1	49	11.72	11.85	11.88	13
20	64QAM	1	99	11.84	11.91	11.94	
20	64QAM	50	0	11.64	11.73	11.70	
20	64QAM	50	24	11.76	11.75	11.79	13
20	64QAM	50	50	11.75	11.82	11.86	
20	64QAM	100	0	11.63	11.64	11.62	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	11.52	11.56	11.59	13
15	QPSK	1	37	11.52	11.57	11.60	
15	QPSK	1	74	11.62	11.65	11.67	
15	QPSK	36	0	11.62	11.66	11.69	13
15	QPSK	36	20	11.73	11.71	11.72	
15	QPSK	36	39	11.75	11.81	11.79	
15	QPSK	75	0	11.64	11.61	11.62	13
15	16QAM	1	0	11.88	11.95	11.93	
15	16QAM	1	37	11.95	12.04	11.97	
15	16QAM	1	74	11.96	12.03	12.01	13
15	16QAM	36	0	11.65	11.72	11.72	
15	16QAM	36	20	11.73	11.74	11.73	
15	16QAM	36	39	11.72	11.79	11.76	13
15	16QAM	75	0	11.66	11.66	11.65	
15	64QAM	1	0	11.72	11.79	11.76	
15	64QAM	1	37	11.79	11.90	11.87	13
15	64QAM	1	74	11.86	11.93	11.90	
15	64QAM	36	0	11.65	11.73	11.71	
15	64QAM	36	20	11.77	11.75	11.76	13
15	64QAM	36	39	11.61	11.84	11.85	
15	64QAM	75	0	11.67	11.68	11.67	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	11.33	11.45	11.41	13
10	QPSK	1	25	11.38	11.50	11.44	
10	QPSK	1	49	11.45	11.56	11.48	
10	QPSK	25	0	11.39	11.45	11.48	13
10	QPSK	25	12	11.52	11.51	11.52	
10	QPSK	25	25	11.51	11.57	11.58	
10	QPSK	50	0	11.43	11.40	11.40	13
10	16QAM	1	0	11.74	11.77	11.80	
10	16QAM	1	25	11.75	11.84	11.84	
10	16QAM	1	49	11.82	11.89	11.88	13
10	16QAM	25	0	11.47	11.55	11.53	
10	16QAM	25	12	11.55	11.59	11.54	
10	16QAM	25	25	11.53	11.60	11.62	13
10	16QAM	50	0	11.41	11.44	11.39	
10	64QAM	1	0	11.59	11.62	11.65	
10	64QAM	1	25	11.71	11.77	11.79	13
10	64QAM	1	49	11.70	11.81	11.76	
10	64QAM	25	0	11.45	11.50	11.52	
10	64QAM	25	12	11.58	11.57	11.56	13
10	64QAM	25	25	11.55	11.61	11.65	
10	64QAM	50	0	11.46	11.42	11.42	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	11.33	11.46	11.44	13
5	QPSK	1	12	11.41	11.45	11.50	
5	QPSK	1	24	11.42	11.62	11.48	
5	QPSK	12	0	11.41	11.47	11.50	13
5	QPSK	12	7	11.55	11.55	11.58	
5	QPSK	12	13	11.51	11.54	11.55	
5	QPSK	25	0	11.46	11.44	11.54	13
5	16QAM	1	0	11.69	11.67	11.80	
5	16QAM	1	12	11.73	11.65	11.77	
5	16QAM	1	24	11.77	11.83	11.87	13
5	16QAM	12	0	11.43	11.48	11.54	
5	16QAM	12	7	11.56	11.55	11.59	
5	16QAM	12	13	11.52	11.58	11.55	13
5	16QAM	25	0	11.48	11.51	11.56	
5	64QAM	1	0	11.63	11.65	11.79	
5	64QAM	1	12	11.67	11.67	11.73	13
5	64QAM	1	24	11.75	11.71	11.80	
5	64QAM	12	0	11.49	11.53	11.59	
5	64QAM	12	7	11.65	11.58	11.63	13
5	64QAM	12	13	11.61	11.61	11.59	
5	64QAM	25	0	11.52	11.50	11.58	

Band 25_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				20140	26340	26590					
Frequency (MHz)				1860	1880	1905					
20	QPSK	1	0	12.62	12.55	12.60	14				
20	QPSK	1	49	12.48	12.48	12.52					
20	QPSK	1	99	12.43	12.45	12.46					
20	QPSK	50	0	12.69	12.61	12.63	14				
20	QPSK	50	24	12.70	12.67	12.63					
20	QPSK	50	50	12.65	12.65	12.62					
20	QPSK	100	0	12.56	12.55	12.54	14				
20	16QAM	1	0	12.69	12.69	12.97					
20	16QAM	1	49	12.89	12.87	12.89					
20	16QAM	1	99	12.80	12.83	12.81	14				
20	16QAM	50	0	12.73	12.64	12.63					
20	16QAM	50	24	12.68	12.67	12.63					
20	16QAM	50	50	12.62	12.65	12.66	14				
20	16QAM	100	0	12.58	12.56	12.53					
20	64QAM	1	0	12.86	12.75	12.76					
20	64QAM	1	49	12.76	12.74	12.77	14				
20	64QAM	1	99	12.68	12.68	12.72					
20	64QAM	50	0	12.75	12.66	12.68					
20	64QAM	50	24	12.70	12.71	12.71	14				
20	64QAM	50	50	12.63	12.68	12.67					
20	64QAM	100	0	12.61	12.61	12.59					
Channel				26115	26340	26615	Tune-up limit (dBm)				
Frequency (MHz)				1857.5	1880	1907.5					
15	QPSK	1	0	12.49	12.54	12.58	14				
15	QPSK	1	37	12.50	12.47	12.52					
15	QPSK	1	74	12.35	12.51	12.48					
15	QPSK	36	0	12.66	12.54	12.56	14				
15	QPSK	36	20	12.65	12.65	12.58					
15	QPSK	36	39	12.58	12.59	12.62					
15	QPSK	75	0	12.61	12.60	12.54	14				
15	16QAM	1	0	12.85	12.89	12.93					
15	16QAM	1	37	12.89	12.89	12.89					
15	16QAM	1	74	12.68	12.84	12.83	14				
15	16QAM	36	0	12.68	12.57	12.58					
15	16QAM	36	20	12.69	12.64	12.59					
15	16QAM	36	39	12.60	12.57	12.59	14				
15	16QAM	75	0	12.63	12.61	12.56					
15	64QAM	1	0	12.75	12.77	12.80					
15	64QAM	1	37	12.76	12.76	12.79	14				
15	64QAM	1	74	12.54	12.74	12.75					
15	64QAM	36	0	12.70	12.58	12.63					
15	64QAM	36	20	12.69	12.69	12.66	14				
15	64QAM	36	39	12.65	12.62	12.67					
15	64QAM	75	0	12.64	12.62	12.57					
Channel				26090	26340	26640	Tune-up limit (dBm)				
Frequency (MHz)				1855	1880	1910					
10	QPSK	1	0	12.22	12.13	12.33	14				
10	QPSK	1	25	12.35	12.32	12.32					
10	QPSK	1	49	12.06	12.08	12.31					
10	QPSK	25	0	12.38	12.28	12.29	14				
10	QPSK	25	12	12.49	12.44	12.47					
10	QPSK	25	25	12.38	12.38	12.41					
10	QPSK	50	0	12.43	12.40	12.38	14				
10	16QAM	1	0	12.58	12.50	12.75					
10	16QAM	1	25	12.71	12.70	12.69					
10	16QAM	1	49	12.43	12.44	12.69	14				
10	16QAM	25	0	12.42	12.30	12.33					
10	16QAM	25	12	12.48	12.48	12.47					
10	16QAM	25	25	12.42	12.39	12.43	14				
10	16QAM	50	0	12.42	12.39	12.40					
10	64QAM	1	0	12.46	12.35	12.61					
10	64QAM	1	25	12.69	12.61	12.68	14				
10	64QAM	1	49	12.34	12.34	12.63					
10	64QAM	25	0	12.46	12.34	12.38					
10	64QAM	25	12	12.55	12.53	12.54	14				
10	64QAM	25	25	12.43	12.43	12.43					
10	64QAM	50	0	12.48	12.44	12.44					
Channel				26095	26340	26695	Tune-up limit (dBm)				
Frequency (MHz)				1852.5	1880	1912.5					
5	QPSK	1	0	12.35	12.24	12.32	14				
5	QPSK	1	12	12.43	12.38	12.37					
5	QPSK	1	24	12.35	12.32	12.37					
5	QPSK	12	0	12.47	12.35	12.34	14				
5	QPSK	12	7	12.50	12.51	12.46					
5	QPSK	12	13	12.47	12.43	12.41					
5	QPSK	25	0	12.48	12.42	12.39	14				
5	16QAM	1	0	12.66	12.57	12.62					
5	16QAM	1	12	12.67	12.63	12.65					
5	16QAM	1	24	12.66	12.65	12.70	14				
5	16QAM	12	0	12.51	12.40	12.34					
5	16QAM	12	7	12.56	12.47	12.44					
5	16QAM	12	13	12.51	12.46	12.45	14				
5	16QAM	25	0	12.46	12.47	12.43					
5	64QAM	1	0	12.65	12.48	12.56					
5	64QAM	1	12	12.64	12.60	12.59	14				
5	64QAM	1	24	12.62	12.59	12.63					
5	64QAM	12	0	12.53	12.43	12.44					
5	64QAM	12	7	12.57	12.59	12.52	14				
5	64QAM	12	13	12.54	12.54	12.49					
5	64QAM	25	0	12.53	12.45	12.49					
Channel				26095	26340	26695	Tune-up limit (dBm)				
Frequency (MHz)				1851.5	1880	1913.5					
3	QPSK	1	0	12.37	12.25	12.27	14				
3	QPSK	1	8	12.48	12.39	12.38					
3	QPSK	1	14	12.35	12.36	12.35					
3	QPSK	8	0	12.50	12.35	12.38	14				
3	QPSK	8	4	12.50	12.48	12.48					
3	QPSK	8	7	12.48	12.46	12.44					
3	QPSK	15	0	12.50	12.43	12.45	14				
3	16QAM	1	0	12.72	12.60	12.58					
3	16QAM	1	8	12.75	12.72	12.71					
3	16QAM	1	14	12.74	12.70	12.69	14				
3	16QAM	8	0	12.50	12.39	12.39					
3	16QAM	8	4	12.58	12.51	12.51					
3	16QAM	8	7	12.56	12.46	12.50	14				
3	16QAM	15	0	12.50	12.47	12.45					
3	64QAM	1	0	12.66	12.50	12.51					
3	64QAM	1	8	12.76	12.69	12.65	14				
3	64QAM	1	14	12.67	12.63	12.64					
3	64QAM	8	0	12.55	12.46	12.46					
3	64QAM	8	4	12.62	12.54	12.51	14				
3	64QAM	8	7	12.57	12.51	12.49					
3	64QAM	15	0	12.54	12.46	12.48					
Channel				26047	26340	26683	Tune-up limit (dBm)				
Frequency (MHz)				1850.7	1880	1914.3					
1.4	QPSK	1	0	12.33	12.28	12.18	14				
1.4	QPSK	1	3	12.41	12.35	12.34					
1.4	QPSK	1	5	12.33	12.27	12.29					
1.4	QPSK	3	0	12.33	12.27	12.29	14				
1.4	QPSK	3	1	12.38	12.32	12.25					
1.4	QPSK	3	3	12.38	12.30	12.26					
1.4	QPSK	6	0	12.44	12.36	12.29	14				
1.4	16QAM	1	0	12.65	12.61	12.62	14				
1.4	16QAM	1	3	12.75	12.69	12.68					
1.4	16QAM	1	5	12.70	12.60	12.61					
1.4	16QAM	3	0	12.54	12.54	12.51	14				
1.4	16QAM	3	1	12.50	12.41	12.34					
1.4	16QAM	3	3	12.44	12.35	12.33					
1.4	16QAM	6	0	12.54	12.47	12.38	14				
1.4	16QAM	6	1	12.51	12.43	12.39					
1.4	16QAM	3	3	12.67	12.59	12.55					
1.4	64QAM	1	5	12.68	12.54	12.55	14				
1.4	64QAM	1	1	12.61	12.56	12.49					
1.4	64QAM	3	3	12.56	12.49	12.46					

Band 66_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				132072	132322	132572					
Frequency (MHz)				1720	1745	1770					
20	QPSK	1	0	12.32	12.34	12.54	14				
20	QPSK	1	49	12.44	12.48	12.50					
20	QPSK	1	99	12.17	12.19	12.44					
20	QPSK	50	0	12.60	12.61	12.61					
20	QPSK	50	24	12.67	12.61	12.69	14				
20	QPSK	50	50	12.49	12.53	12.53					
20	QPSK	100	0	12.59	12.50	12.60					
20	16QAM	1	0	12.64	12.64	12.52					
20	16QAM	1	49	12.75	12.80	12.84	14				
20	16QAM	1	99	12.47	12.48	12.72					
20	16QAM	50	0	12.53	12.58	12.58					
20	16QAM	50	24	12.65	12.56	12.64					
20	16QAM	50	50	12.51	12.51	12.52	14				
20	16QAM	100	0	12.54	12.47	12.80					
20	64QAM	1	0	12.59	12.59	12.82					
20	64QAM	1	49	12.78	12.78	12.76	14				
20	64QAM	1	99	12.48	12.49	12.68					
20	64QAM	50	0	12.62	12.63	12.62					
20	64QAM	50	24	12.64	12.61	12.71					
20	64QAM	50	50	12.55	12.54	12.54	14				
20	64QAM	100	0	12.60	12.52	12.60					
Channel				132047	132322	132697	Tune-up limit (dBm)				
Frequency (MHz)				1717.5	1745	1772.5					
15	QPSK	1	0	12.51	12.51	12.58	14				
15	QPSK	1	37	12.54	12.54	12.53					
15	QPSK	1	74	12.29	12.34	12.49					
15	QPSK	36	0	12.57	12.60	12.61					
15	QPSK	36	20	12.64	12.65	12.68	14				
15	QPSK	36	39	12.52	12.56	12.58					
15	QPSK	75	0	12.60	12.54	12.64					
15	16QAM	1	0	12.76	12.73	12.86					
15	16QAM	1	37	12.75	12.79	12.75	14				
15	16QAM	1	74	12.56	12.59	12.71					
15	16QAM	36	0	12.58	12.57	12.81					
15	16QAM	36	20	12.63	12.64	12.67					
15	16QAM	36	39	12.51	12.53	12.53	14				
15	16QAM	75	0	12.59	12.51	12.80					
15	64QAM	1	0	12.70	12.70	12.82					
15	64QAM	1	37	12.71	12.78	12.78	14				
15	64QAM	1	74	12.51	12.56	12.77					
15	64QAM	36	0	12.51	12.60	12.58					
15	64QAM	36	20	12.55	12.64	12.66					
15	64QAM	36	39	12.50	12.52	12.56	14				
15	64QAM	75	0	12.56	12.53	12.63					
Channel				132022	132322	132622	Tune-up limit (dBm)				
Frequency (MHz)				1715	1745	1775					
10	QPSK	1	0	12.20	12.22	12.22	14				
10	QPSK	1	25	12.29	12.33	12.33					
10	QPSK	1	49	12.07	12.01	12.46					
10	QPSK	25	0	12.30	12.35	12.38					
10	QPSK	25	12	12.48	12.39	12.53	14				
10	QPSK	25	25	12.37	12.39	12.45					
10	QPSK	50	0	12.41	12.34	12.44					
10	16QAM	1	0	12.55	12.58	12.61					
10	16QAM	1	25	12.68	12.72	12.70	14				
10	16QAM	1	49	12.45	12.44	12.44					
10	16QAM	25	0	12.32	12.27	12.30					
10	16QAM	25	12	12.45	12.34	12.46					
10	16QAM	25	25	12.36	12.33	12.38	14				
10	16QAM	50	0	12.34	12.25	12.37					
10	64QAM	1	0	12.45	12.47	12.46					
10	64QAM	1	25	12.61	12.60	12.57					
10	64QAM	1	49	12.33	12.30	12.34	14				
10	64QAM	25	0	12.33	12.33	12.38					
10	64QAM	25	12	12.50	12.41	12.54					
10	64QAM	25	25	12.41	12.40	12.41					
10	64QAM	50	0	12.45	12.34	12.43	14				
Channel				131997	132322	132657	Tune-up limit (dBm)				
Frequency (MHz)				1712.5	1745	1777.5					
5	QPSK	1	0	12.27	12.22	12.30	14				
5	QPSK	1	12	12.46	12.38	12.41					
5	QPSK	1	24	12.26	12.36	12.34					
5	QPSK	12	0	12.48	12.35	12.38					
5	QPSK	12	7	12.49	12.47	12.48	14				
5	QPSK	12	13	12.46	12.43	12.47					
5	QPSK	25	0	12.44	12.43	12.49					
5	16QAM	1	0	12.63	12.65	12.64					
5	16QAM	1	12	12.67	12.62	12.67	14				
5	16QAM	1	24	12.69	12.70	12.67					
5	16QAM	12	0	12.50	12.40	12.41					
5	16QAM	12	7	12.56	12.53	12.52					
5	16QAM	12	13	12.51	12.48	12.50	14				
5	16QAM	25	0	12.43	12.43	12.46					
5	64QAM	1	0	12.68	12.72	12.69					
5	64QAM	1	12	12.84	12.79	12.87					
5	64QAM	1	24	12.85	12.71	12.75	14				
5	64QAM	12	0	12.50	12.40	12.42					
5	64QAM	12	7	12.57	12.52	12.56					
5	64QAM	12	13	12.51	12.49	12.50					
5	64QAM	25	0	12.48	12.48	12.50	14				
Channel				131987	132322	132657	Tune-up limit (dBm)				
Frequency (MHz)				1710.7	1745	1779.3					
1.4	QPSK	1	0	12.14	12.28	12.24	14				
1.4	QPSK	1	3	12.26	12.32	12.39					
1.4	QPSK	1	5	12.26	12.27	12.32					
1.4	QPSK	3	0	12.33	12.31	12.29					
1.4	QPSK	3	1	12.44	12.36	12.39	14				
1.4	QPSK	3	3	12.33	12.33	12.39					
1.4	QPSK	6	0	12.39	12.38	12.31					
1.4	16QAM	1	0	12.61	12.59	12.63					
1.4	16QAM	1	2	12.66	12.65	12.71	14				
1.4	16QAM	1	5	12.53	12.59	12.55					
1.4	16QAM	3	0	12.52	12.42	12.38					
1.4	16QAM	3	1	12.60	12.44	12.48					
1.4	16QAM	3	3	12.52	12.40	12.53	14				
1.4	16QAM	6	0	12.41	12.40	12.33					
1.4	64QAM	1	0	12.82	12.65	12.58					
1.4	64QAM	1	3	12.89	12.74	12.77					
1.4	64QAM	1	5	12.75	12.63	12.78	14				
1.4	64QAM	3	0	12.51	12.48	12.50					
1.4	64QAM	3	1	12.60	12.60	12.54					
1.4	64QAM	3	1	12.55	12.54	12.57					
1.4	64QAM	6	0	12.51	12.40	12.38	14				

Band 2_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				18700	18800	19000					
Frequency (MHz)											
20	QPSK	1	0	19.10	19.04	19.04	20				
20	QPSK	1	49	18.95	18.96	18.99					
20	QPSK	50	0	19.08	18.99	18.99					
20	QPSK	50	24	19.15	19.16	19.08	20				
20	QPSK	50	50	19.07	19.10	19.10					
20	QPSK	100	0	19.07	19.09	19.01					
20	16QAM	1	0	19.49	19.36	19.41	20				
20	16QAM	1	49	19.35	19.37	19.37					
20	16QAM	1	99	19.29	19.31	19.30					
20	16QAM	50	0	19.09	19.01	19.05	20				
20	16QAM	50	24	19.16	19.18	19.09					
20	16QAM	50	50	19.10	19.12	19.13					
20	16QAM	100	0	19.09	19.08	19.02	20				
20	64QAM	1	0	19.33	19.22	19.25					
20	64QAM	1	49	19.20	19.21	19.19					
20	64QAM	1	99	19.20	19.20	19.15	20				
20	64QAM	50	0	19.10	19.01	19.02					
20	64QAM	50	24	19.19	19.16	19.10					
20	64QAM	50	50	19.10	19.13	19.12	20				
20	64QAM	100	0	19.11	19.10	19.04					
Channel				1867.5	18900	19125				Tune-up limit (dBm)	
Frequency (MHz)				1857.5	1880	1902.5					
15	QPSK	1	0	18.97	19.01	19.05	20				
15	QPSK	1	37	19.00	19.00	19.01					
15	QPSK	1	74	18.92	19.01	18.96					
15	QPSK	36	0	19.11	19.00	19.03	20				
15	QPSK	36	20	19.16	19.15	19.17					
15	QPSK	36	39	19.10	19.12	19.12					
15	QPSK	75	0	19.11	19.11	19.03	20				
15	16QAM	1	0	19.31	19.36	19.35					
15	16QAM	1	37	19.39	19.36	19.37					
15	16QAM	1	74	19.23	19.33	19.31	20				
15	16QAM	36	0	19.14	19.02	19.05					
15	16QAM	36	20	19.18	19.15	19.17					
15	16QAM	36	39	19.13	19.12	19.13	20				
15	16QAM	75	0	19.13	19.12	19.05					
15	64QAM	1	0	19.19	19.25	19.22					
15	64QAM	1	37	19.25	19.22	19.24	20				
15	64QAM	1	74	19.13	19.20	19.14					
15	64QAM	36	0	19.16	19.06	19.07					
15	64QAM	36	20	19.16	19.16	19.20	20				
15	64QAM	36	39	19.16	19.16	19.17					
15	64QAM	75	0	19.14	19.11	19.05					
Channel				18650	18900	19150	Tune-up limit (dBm)				
Frequency (MHz)				1855	1880	1905					
10	QPSK	1	0	18.65	18.58	18.93	20				
10	QPSK	1	25	18.90	18.87	18.87					
10	QPSK	1	49	18.63	18.66	18.85					
10	QPSK	25	0	18.96	18.84	18.86	20				
10	QPSK	25	12	19.02	19.00	18.91					
10	QPSK	25	25	18.90	18.89	18.89					
10	QPSK	50	0	19.95	18.92	18.85	20				
10	16QAM	1	0	19.00	18.93	19.29					
10	16QAM	1	25	19.30	19.26	19.26					
10	16QAM	1	49	18.97	19.01	19.21	20				
10	16QAM	25	0	18.98	18.87	18.85					
10	16QAM	25	12	19.07	19.02	18.94					
10	16QAM	25	25	18.91	18.88	18.87	20				
10	16QAM	50	0	18.95	18.94	18.84					
10	64QAM	1	0	18.88	18.75	19.14					
10	64QAM	1	25	19.23	19.14	19.18	20				
10	64QAM	1	49	18.88	18.87	19.11					
10	64QAM	25	0	18.98	18.87	18.88					
10	64QAM	25	12	19.06	19.06	18.97	20				
10	64QAM	25	25	18.94	18.91	18.90					
10	64QAM	50	0	18.96	18.94	18.83					
Channel				18625	18900	19175	Tune-up limit (dBm)				
Frequency (MHz)				1852.5	1880	1907.5					
5	QPSK	1	0	18.91	18.80	18.83	20				
5	QPSK	1	12	18.98	18.96	18.92					
5	QPSK	1	24	18.82	18.82	18.76					
5	QPSK	12	0	19.05	18.96	18.96	20				
5	QPSK	12	7	19.07	19.06	18.96					
5	QPSK	12	13	19.00	18.97	18.93					
5	QPSK	25	0	19.01	18.98	18.91	20				
5	16QAM	1	0	19.27	19.12	19.16					
5	16QAM	1	12	19.28	19.21	19.20					
5	16QAM	1	24	19.18	19.15	19.09	20				
5	16QAM	12	0	19.10	18.96	18.98					
5	16QAM	12	7	19.11	19.05	18.96					
5	16QAM	12	13	18.99	18.95	18.94	20				
5	16QAM	25	0	19.07	18.99	18.95					
5	64QAM	1	0	19.17	19.10	19.08					
5	64QAM	1	12	19.21	19.12	19.10	20				
5	64QAM	1	24	19.03	19.03	18.98					
5	64QAM	12	0	19.11	19.04	19.03					
5	64QAM	12	7	19.13	19.09	19.08	20				
5	64QAM	12	13	19.07	19.02	19.02					
5	64QAM	25	0	19.03	18.97	18.99					
Channel				18615	18900	19185	Tune-up limit (dBm)				
Frequency (MHz)				1851.5	1880	1908.5					
3	QPSK	1	0	19.01	18.88	18.98	20				
3	QPSK	1	8	19.03	18.98	18.95					
3	QPSK	1	14	18.90	18.85	18.83					
3	QPSK	8	0	19.07	18.94	19.01	20				
3	QPSK	8	4	19.07	19.04	19.00					
3	QPSK	8	7	19.01	18.98	18.94					
3	QPSK	15	0	19.05	18.98	18.98	20				
3	16QAM	1	0	19.28	19.21	19.26					
3	16QAM	1	8	19.37	19.29	19.25					
3	16QAM	1	14	19.21	19.18	19.13	20				
3	16QAM	8	0	19.17	18.99	19.07					
3	16QAM	8	4	19.12	19.10	19.07					
3	16QAM	8	7	19.05	19.00	18.99	20				
3	16QAM	15	0	19.05	19.04	19.01					
3	64QAM	1	0	19.26	19.12	19.22					
3	64QAM	1	8	19.23	19.18	19.20	20				
3	64QAM	1	14	19.11	19.08	19.07					
3	64QAM	8	0	19.14	19.02	19.11					
3	64QAM	8	4	19.14	19.08	19.11	20				
3	64QAM	8	7	19.08	19.02	19.04					
3	64QAM	15	0	19.06	19.03	19.05					
Channel				18607	18900	19193	Tune-up limit (dBm)				
Frequency (MHz)				1850.7	1880	1909.3					
1.4	QPSK	1	0	18.92	18.86	18.84	20				
1.4	QPSK	1	3	18.96	18.89	18.86					
1.4	QPSK	1	5	18.85	18.81	18.76					
1.4	QPSK	3	0	18.93	18.87	18.82	20				
1.4	QPSK	3	1	18.94	18.91	18.84					
1.4	QPSK	3	3	18.89	18.85	18.81					
1.4	QPSK	6	0	18.99	18.95	18.90	20				



Band 4_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20050	Power Middle Ch. Freq. 20175	Power High Ch. Freq. 20300	Tune-up (dBm)
Channel				1720	1732.5	1745	
20	QPSK	1	0	19.34	19.34	19.32	20.5
20	QPSK	1	49	19.49	19.50	19.52	
20	QPSK	1	99	19.22	19.22	19.21	
20	QPSK	50	0	19.57	19.55	19.56	20.5
20	QPSK	50	24	19.69	19.59	19.60	
20	QPSK	50	50	19.60	19.58	19.57	
20	QPSK	100	0	19.61	19.49	19.52	20.5
20	16QAM	1	0	19.66	19.66	19.69	
20	16QAM	1	49	19.67	19.91	19.92	
20	16QAM	1	99	19.61	19.56	19.58	20.5
20	16QAM	50	0	19.57	19.55	19.55	
20	16QAM	50	24	19.71	19.62	19.59	
20	16QAM	50	50	19.60	19.58	19.59	20.5
20	16QAM	100	0	19.61	19.55	19.52	
20	64QAM	1	0	19.54	19.54	19.49	
20	64QAM	1	49	19.69	19.73	19.76	20.5
20	64QAM	1	99	19.49	19.43	19.50	
20	64QAM	50	0	19.59	19.59	19.57	
20	64QAM	20	24	19.72	19.63	19.69	20.5
20	64QAM	50	50	19.61	19.60	19.61	
20	64QAM	100	0	19.64	19.57	19.52	
Channel				20025	20175	20325	Tune-up (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.44	19.43	19.41	20.5
15	QPSK	1	37	19.53	19.51	19.51	
15	QPSK	1	74	19.41	19.38	19.40	
15	QPSK	36	0	19.56	19.57	19.57	20.5
15	QPSK	36	20	19.67	19.61	19.68	
15	QPSK	36	39	19.62	19.62	19.61	
15	QPSK	75	0	19.64	19.56	19.61	20.5
15	16QAM	1	0	19.74	19.73	19.73	
15	16QAM	1	37	19.69	19.66	19.62	
15	16QAM	1	74	19.73	19.74	19.71	20.5
15	16QAM	36	0	19.59	19.58	19.57	
15	16QAM	36	20	19.84	19.60	19.67	
15	16QAM	36	39	19.62	19.62	19.62	20.5
15	16QAM	75	0	19.63	19.55	19.61	
15	64QAM	1	0	19.60	19.63	19.62	
15	64QAM	1	37	19.78	19.61	19.74	20.5
15	64QAM	1	74	19.70	19.61	19.62	
15	64QAM	36	0	19.59	19.61	19.62	
15	64QAM	36	20	19.72	19.64	19.72	20.5
15	64QAM	36	39	19.67	19.64	19.66	
15	64QAM	75	0	19.66	19.57	19.63	
Channel				20000	20175	20350	Tune-up (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.11	19.13	19.13	20.5
10	QPSK	1	25	19.38	19.38	19.38	
10	QPSK	1	49	19.06	19.08	19.05	
10	QPSK	25	0	19.37	19.36	19.36	20.5
10	QPSK	25	12	19.51	19.41	19.43	
10	QPSK	25	25	19.37	19.35	19.37	
10	QPSK	50	0	19.42	19.35	19.33	20.5
10	16QAM	1	0	19.46	19.47	19.46	
10	16QAM	1	25	19.75	19.76	19.76	
10	16QAM	1	49	19.44	19.42	19.43	20.5
10	16QAM	25	0	19.40	19.38	19.36	
10	16QAM	25	12	19.53	19.44	19.44	
10	16QAM	25	25	19.39	19.37	19.37	20.5
10	16QAM	50	0	19.44	19.35	19.36	
10	64QAM	1	0	19.36	19.34	19.35	
10	64QAM	1	25	19.73	19.69	19.68	20.5
10	64QAM	1	49	19.36	19.35	19.35	
10	64QAM	25	0	19.41	19.40	19.41	
10	64QAM	25	12	19.56	19.51	19.51	20.5
10	64QAM	25	25	19.41	19.41	19.43	
10	64QAM	50	0	19.46	19.39	19.37	
Channel				19975	20175	20375	Tune-up (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	19.33	19.36	19.31	20.5
5	QPSK	1	12	19.42	19.45	19.43	
5	QPSK	1	24	19.31	19.27	19.25	
5	QPSK	12	0	19.51	19.46	19.46	20.5
5	QPSK	12	7	19.53	19.55	19.51	
5	QPSK	12	13	19.46	19.46	19.46	
5	QPSK	25	0	19.48	19.42	19.46	20.5
5	16QAM	1	0	19.66	19.57	19.63	
5	16QAM	1	12	19.72	19.70	19.66	
5	16QAM	1	24	19.62	19.63	19.58	20.5
5	16QAM	12	0	19.54	19.49	19.46	
5	16QAM	12	7	19.55	19.55	19.52	
5	16QAM	12	13	19.48	19.48	19.47	20.5
5	16QAM	25	0	19.52	19.45	19.49	
5	64QAM	1	0	19.66	19.62	19.55	
5	64QAM	1	12	19.64	19.65	19.60	20.5
5	64QAM	1	24	19.47	19.55	19.54	
5	64QAM	12	0	19.60	19.54	19.50	
5	64QAM	12	7	19.61	19.62	19.63	20.5
5	64QAM	12	13	19.56	19.56	19.50	
5	64QAM	25	0	19.54	19.46	19.52	
Channel				19965	20175	20385	Tune-up (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	19.42	19.40	19.40	20.5
3	QPSK	1	8	19.48	19.46	19.46	
3	QPSK	1	14	19.40	19.37	19.35	
3	QPSK	8	0	19.53	19.47	19.44	20.5
3	QPSK	8	4	19.56	19.55	19.53	
3	QPSK	8	7	19.50	19.46	19.46	
3	QPSK	15	0	19.50	19.45	19.48	20.5
3	16QAM	1	0	19.72	19.72	19.67	
3	16QAM	1	8	19.79	19.63	19.75	
3	16QAM	1	14	19.71	19.69	19.69	20.5
3	16QAM	8	0	19.58	19.53	19.50	
3	16QAM	8	4	19.59	19.58	19.58	
3	16QAM	8	7	19.52	19.54	19.51	20.5
3	16QAM	15	0	19.54	19.49	19.53	
3	64QAM	1	0	19.66	19.62	19.55	
3	64QAM	1	8	19.73	19.72	19.70	20.5
3	64QAM	1	14	19.59	19.63	19.58	
3	64QAM	8	0	19.62	19.56	19.54	
3	64QAM	8	4	19.61	19.62	19.60	20.5
3	64QAM	8	7	19.56	19.57	19.56	
3	64QAM	15	0	19.56	19.49	19.55	
Channel				19957	20175	20393	Tune-up (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	19.28	19.35	19.28	20.5
1.4	QPSK	1	3	19.38	19.38	19.36	
1.4	QPSK	1	5	19.30	19.30	19.31	
1.4	QPSK	3	0	19.37	19.37	19.27	20.5
1.4	QPSK	3	1	19.39	19.38	19.31	
1.4	QPSK	3	3	19.34	19.35	19.31	
1.4	QPSK	6	0	19.41	19.40	19.35	20.5
1.4	16QAM	1	0	19.62	19.67	19.67	
1.4	16QAM	1	3	19.73	19.72	19.73	
1.4	16QAM	1	5	19.64	19.64	19.63	20.5
1.4	16QAM	3	0	19.45	19.45	19.35	
1.4	16QAM	3	1	19.48	19.48	19.42	
1.4	16QAM	3	3	19.41	19.42	19.40	20.5
1.4	16QAM	6	0	19.52	19.52	19.45	
1.4	64QAM	1	0	19.57	19.56	19.51	
1.4	64QAM	1	3	19.63	19.63	19.63	20.5
1.4	64QAM	1	5	19.52	19.54	19.54	
1.4	64QAM	3	0	19.56	19.57	19.52	
1.4	64QAM	3	1	19.62	19.65	19.65	20.5
1.4	64QAM	3	3	19.56	19.55	19.57	
1.4	64QAM	6	0	19.43	19.46	19.40	



Band 7_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				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.11	17.08	17.18	18
20	QPSK	1	49	17.13	17.17	17.21	
20	QPSK	1	99	17.21	17.22	17.25	
20	QPSK	50	0	17.21	17.28	17.29	18
20	QPSK	50	24	17.31	17.31	17.34	
20	QPSK	50	50	17.31	17.35	17.39	
20	QPSK	100	0	17.25	17.16	17.22	18
20	16QAM	1	0	17.47	17.43	17.52	
20	16QAM	1	49	17.48	17.47	17.56	
20	16QAM	1	99	17.55	17.55	17.58	18
20	16QAM	50	0	17.24	17.25	17.29	
20	16QAM	50	24	17.33	17.29	17.32	
20	16QAM	50	50	17.35	17.37	17.38	18
20	16QAM	100	0	17.23	17.16	17.21	
20	64QAM	1	0	17.30	17.25	17.39	
20	64QAM	1	49	17.38	17.37	17.50	18
20	64QAM	1	99	17.43	17.42	17.54	
20	64QAM	50	0	17.22	17.25	17.31	
20	64QAM	50	24	17.31	17.28	17.38	18
20	64QAM	50	50	17.35	17.36	17.45	
20	64QAM	100	0	17.22	17.18	17.29	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.16	17.16	17.23	18
15	QPSK	1	37	17.16	17.17	17.24	
15	QPSK	1	74	17.21	17.25	17.29	
15	QPSK	36	0	17.24	17.23	17.29	18
15	QPSK	36	20	17.31	17.29	17.39	
15	QPSK	36	39	17.34	17.37	17.39	
15	QPSK	75	0	17.25	17.21	17.24	18
15	16QAM	1	0	17.47	17.47	17.51	
15	16QAM	1	37	17.47	17.48	17.50	
15	16QAM	1	74	17.51	17.54	17.57	18
15	16QAM	36	0	17.23	17.26	17.33	
15	16QAM	36	20	17.31	17.29	17.39	
15	16QAM	36	39	17.37	17.33	17.37	18
15	16QAM	75	0	17.27	17.22	17.24	
15	64QAM	1	0	17.32	17.28	17.44	
15	64QAM	1	37	17.40	17.38	17.49	18
15	64QAM	1	74	17.42	17.44	17.56	
15	64QAM	36	0	17.28	17.25	17.37	
15	64QAM	36	20	17.34	17.30	17.46	18
15	64QAM	36	39	17.36	17.35	17.46	
15	64QAM	75	0	17.27	17.21	17.29	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.90	17.00	17.00	18
10	QPSK	1	25	16.90	17.02	17.02	
10	QPSK	1	49	16.96	17.07	17.06	
10	QPSK	25	0	17.01	17.03	17.08	18
10	QPSK	25	12	17.06	17.06	17.16	
10	QPSK	25	25	17.12	17.13	17.15	
10	QPSK	50	0	17.02	16.98	17.08	18
10	16QAM	1	0	17.31	17.34	17.37	
10	16QAM	1	25	17.33	17.38	17.41	
10	16QAM	1	49	17.35	17.43	17.43	18
10	16QAM	25	0	17.01	17.06	17.09	
10	16QAM	25	12	17.10	17.07	17.16	
10	16QAM	25	25	17.13	17.14	17.15	18
10	16QAM	50	0	17.01	16.98	17.07	
10	64QAM	1	0	17.12	17.25	17.22	
10	64QAM	1	25	17.26	17.32	17.32	18
10	64QAM	1	49	17.26	17.33	17.36	
10	64QAM	25	0	17.01	17.06	17.08	
10	64QAM	25	12	17.11	17.10	17.22	18
10	64QAM	25	25	17.13	17.16	17.22	
10	64QAM	50	0	17.03	17.01	17.09	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.92	16.97	17.04	18
5	QPSK	1	12	17.02	17.06	17.11	
5	QPSK	1	24	17.00	17.06	17.06	
5	QPSK	12	0	17.04	17.02	17.13	18
5	QPSK	12	7	17.12	17.07	17.14	
5	QPSK	12	13	17.07	17.13	17.14	
5	QPSK	25	0	17.06	17.06	17.13	18
5	16QAM	1	0	17.27	17.33	17.42	
5	16QAM	1	12	17.37	17.45	17.47	
5	16QAM	1	24	17.35	17.42	17.42	18
5	16QAM	12	0	17.09	17.08	17.13	
5	16QAM	12	7	17.12	17.11	17.18	
5	16QAM	12	13	17.10	17.14	17.13	18
5	16QAM	25	0	17.09	17.06	17.12	
5	64QAM	1	0	17.19	17.27	17.39	
5	64QAM	1	12	17.26	17.36	17.34	18
5	64QAM	1	24	17.27	17.37	17.38	
5	64QAM	12	0	17.09	17.14	17.17	
5	64QAM	12	7	17.15	17.16	17.24	18
5	64QAM	12	13	17.12	17.20	17.15	
5	64QAM	25	0	17.04	17.06	17.15	

Band 25_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 26140	Power Middle Ch. / Freq. 26340	Power High Ch. / Freq. 26590	Tune-up (dBm)			
Channel				1860	1880	1905				
Frequency (MHz)										
20	QPSK	1	0	19.26	19.18	19.24	20			
20	QPSK	1	49	19.11	19.11	19.13				
20	QPSK	1	99	19.04	19.07	19.06				
20	QPSK	50	0	19.28	19.24	19.23				
20	QPSK	50	24	19.25	19.24	19.20				
20	QPSK	50	50	19.22	19.21	19.19	20			
20	QPSK	100	0	19.17	19.17	19.23				
20	16QAM	1	0	19.65	19.53	19.35				
20	16QAM	1	49	19.48	19.51	19.51				
20	16QAM	1	99	19.39	19.49	19.41				
20	16QAM	50	0	19.31	19.22	19.25	20			
20	16QAM	50	24	19.28	19.28	19.22				
20	16QAM	50	50	19.21	19.23	19.22				
20	16QAM	100	0	19.18	19.19	19.22				
20	64QAM	1	0	19.54	19.41	19.41				
20	64QAM	1	49	19.38	19.40	19.38	20			
20	64QAM	1	99	19.37	19.36	19.35				
20	64QAM	50	0	19.34	19.24	19.27				
20	64QAM	50	24	19.31	19.31	19.26				
20	64QAM	50	50	19.24	19.26	19.25				
20	64QAM	100	0	19.21	19.22	19.27	20			
Channel				26115	26340	26615				
Frequency (MHz)				1862.5	1880	1907.5	Tune-up (dBm)			
15	QPSK	1	0	19.00	19.21	19.23	20			
15	QPSK	1	37	19.13	19.14	19.13				
15	QPSK	1	74	18.99	19.11	19.10				
15	QPSK	36	0	19.21	19.11	19.12				
15	QPSK	36	20	19.30	19.29	19.30				
15	QPSK	36	39	19.22	19.22	19.22	20			
15	QPSK	75	0	19.23	19.19	19.23				
15	16QAM	1	0	19.34	19.54	19.35				
15	16QAM	1	37	19.51	19.52	19.54				
15	16QAM	1	74	19.32	19.50	19.43				
15	16QAM	36	0	19.24	19.12	19.15	20			
15	16QAM	36	20	19.31	19.29	19.30				
15	16QAM	36	39	19.22	19.23	19.24				
15	16QAM	75	0	19.26	19.22	19.27				
15	64QAM	1	0	19.27	19.39	19.43				
15	64QAM	1	37	19.41	19.44	19.40	20			
15	64QAM	1	74	19.23	19.33	19.34				
15	64QAM	36	0	19.29	19.19	19.21				
15	64QAM	36	20	19.35	19.33	19.34				
15	64QAM	36	39	19.26	19.26	19.28				
15	64QAM	75	0	19.26	19.23	19.25	20			
Channel				26090	26340	26640				
Frequency (MHz)				1855	1880	1910	Tune-up (dBm)			
10	QPSK	1	0	18.72	18.68	18.93	20			
10	QPSK	1	25	18.90	18.87	18.89				
10	QPSK	1	49	18.63	18.66	18.89				
10	QPSK	25	0	18.99	18.86	18.90				
10	QPSK	25	12	19.05	19.01	19.06				
10	QPSK	25	25	18.96	18.97	18.99	20			
10	QPSK	50	0	19.00	18.99	18.99				
10	16QAM	1	0	19.13	19.04	19.35				
10	16QAM	1	25	19.27	19.26	19.27				
10	16QAM	1	49	19.02	19.03	19.27				
10	16QAM	25	0	19.01	18.88	18.91	20			
10	16QAM	25	12	19.09	19.04	19.09				
10	16QAM	25	25	18.97	18.99	19.00				
10	16QAM	50	0	19.01	18.98	19.00				
10	64QAM	1	0	19.06	18.91	19.18				
10	64QAM	1	25	19.25	19.21	19.17	20			
10	64QAM	1	49	18.94	18.94	19.17				
10	64QAM	25	0	19.02	18.93	18.94				
10	64QAM	25	12	19.13	19.12	19.12				
10	64QAM	25	25	19.03	19.03	19.04				
10	64QAM	50	0	19.06	19.02	19.04	20			
Channel				26095	26340	26695				
Frequency (MHz)				1852.5	1880	1912.5	Tune-up (dBm)			
5	QPSK	1	0	18.93	18.81	18.88	20			
5	QPSK	1	12	18.96	18.94	18.90				
5	QPSK	1	24	18.94	18.93	18.89				
5	QPSK	12	0	19.04	18.90	18.92				
5	QPSK	12	7	19.10	19.01	19.02				
5	QPSK	12	13	19.07	19.00	19.02	20			
5	QPSK	25	0	19.05	18.98	18.99				
5	16QAM	1	0	19.25	19.17	19.17				
5	16QAM	1	12	19.29	19.22	19.19				
5	16QAM	1	24	19.27	19.28	19.26				
5	16QAM	12	0	19.08	18.96	18.95	20			
5	16QAM	12	7	19.09	19.07	19.04				
5	16QAM	12	13	19.07	19.04	19.04				
5	16QAM	25	0	19.07	19.01	19.03				
5	64QAM	1	0	19.27	19.08	19.09				
5	64QAM	1	12	19.21	19.17	19.14	20			
5	64QAM	1	24	19.22	19.15	19.19				
5	64QAM	12	0	19.14	19.02	19.01				
5	64QAM	12	7	19.16	19.10	19.11				
5	64QAM	12	13	19.14	19.10	19.09				
5	64QAM	25	0	19.08	19.06	19.04	20			
Channel				26095	26340	26695				
Frequency (MHz)				1851.5	1880	1913.5	Tune-up (dBm)			
3	QPSK	1	0	18.94	18.85	18.88	20			
3	QPSK	1	8	19.01	18.97	18.97				
3	QPSK	1	14	18.91	18.96	18.95				
3	QPSK	8	0	19.10	19.01	18.96				
3	QPSK	8	7	19.04	19.01	19.03				
3	QPSK	15	0	19.09	19.01	18.94	20			
3	16QAM	1	0	19.33	19.18	19.16				
3	16QAM	1	8	19.35	19.28	19.29				
3	16QAM	1	14	19.32	19.28	19.29				
3	16QAM	8	0	19.11	18.99	18.99				
3	16QAM	8	4	19.15	19.10	19.03	20			
3	16QAM	8	7	19.14	19.10	19.09				
3	16QAM	15	0	19.10	19.04	19.01				
3	64QAM	1	0	19.25	19.13	19.08				
3	64QAM	1	8	19.32	19.26	19.26				
3	64QAM	1	14	19.24	19.22	19.23	20			
3	64QAM	8	0	19.13	19.00	19.00				
3	64QAM	8	4	19.16	19.08	19.05				
3	64QAM	8	7	19.15	19.08	19.11				
3	64QAM	15	0	19.12	19.06	19.08				
1.4	Channel				26047	26340	26683	Tune-up (dBm)		
	Frequency (MHz)				1850.7	1880	1914.3			
	1.4	QPSK	1	0	18.90	18.84	18.75	20		
	1.4	QPSK	1	3	18.95	18.89	18.89			
	1.4	QPSK	1	5	18.89	18.91	18.84			
	1.4	QPSK	3	0	18.93	18.84	18.75			
	1.4	QPSK	3	1	18.94	18.88	18.82			
	1.4	QPSK	3	3	18.95	18.85	18.85	20		
	1.4	QPSK	6	0	19.00	19.92	18.85			
	1.4	16QAM	1	0	19.23	19.17	19.06			
	1.4	16QAM	1	3	19.32	19.24	19.21			
	1.4	16QAM	1	5	19.24	19.19	19.20	20		
1.4	16QAM	3	0	19.03	19.94	18.85				
1.4	16QAM	3	1	19.08	19.00	18.92				
1.4	16QAM	3	3	19.03	19.94	18.93				
1.4	16QAM	6	0	19.10	19.04	18.95	20			
1.4	16QAM	6	1	19.10	19.02	19.02				
1.4	16QAM	3	3	19.22	19.15	19.15				
1.4	64QAM	1	5	19.14	19.10	19.08				
1.4	64QAM	3	1	19.20	19.14	19.06	20			
1.4	64QAM	3	3	19.14	19.08	19.06				
1.4	64QAM	3	6	19.10	19.05	18.98				
1.4	64QAM	15	0	19.12	19.06	18.98				

Band 66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up freq. (dBm)		
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	19.36	19.36	19.66	20.5		
20	QPSK	1	49	19.50	19.53	19.67			
20	QPSK	1	99	19.25	19.27	19.48			
20	QPSK	50	0	19.61	19.65	19.69			
20	QPSK	50	24	19.73	19.66	19.77			
20	QPSK	50	50	19.58	19.59	19.62	20.5		
20	QPSK	100	0	19.64	19.66	19.70			
20	16QAM	1	0	19.67	19.72	20.08			
20	16QAM	1	49	19.89	19.93	20.02			
20	16QAM	1	99	19.62	19.65	19.92			
20	16QAM	50	0	19.63	19.65	19.69	20.5		
20	16QAM	50	24	19.73	19.68	19.80			
20	16QAM	50	50	19.59	19.63	19.66			
20	16QAM	100	0	19.63	19.65	19.69			
20	64QAM	1	0	19.53	19.55	19.91			
20	64QAM	1	49	19.77	19.78	19.84	20.5		
20	64QAM	1	99	19.48	19.60	19.77			
20	64QAM	50	0	19.65	19.67	19.72			
20	64QAM	50	24	19.75	19.69	19.80			
20	64QAM	50	50	19.61	19.64	19.68			
20	64QAM	100	0	19.66	19.70	19.74	20.5		
Channel				132047	132322	132697		Tune-up freq. (dBm)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	19.51	19.54	19.69	20.5		
15	QPSK	1	37	19.53	19.55	19.59			
15	QPSK	1	74	19.37	19.41	19.56			
15	QPSK	36	0	19.64	19.67	19.71			
15	QPSK	36	20	19.69	19.74	19.89			
15	QPSK	36	39	19.60	19.64	19.68	20.5		
15	QPSK	75	0	19.67	19.69	19.84			
15	16QAM	1	0	19.79	19.86	20.04			
15	16QAM	1	37	19.94	19.92	20.01			
15	16QAM	1	74	19.72	19.73	19.91			
15	16QAM	36	0	19.64	19.67	19.72	20.5		
15	16QAM	36	20	19.72	19.73	19.70			
15	16QAM	36	39	19.62	19.64	19.70			
15	16QAM	75	0	19.67	19.71	19.86			
15	64QAM	1	0	19.69	19.72	19.92			
15	64QAM	1	37	19.80	19.82	19.89	20.5		
15	64QAM	1	74	19.60	19.64	19.81			
15	64QAM	36	0	19.69	19.75	19.80			
15	64QAM	36	20	19.74	19.77	19.76			
15	64QAM	36	39	19.70	19.71	19.75			
15	64QAM	75	0	19.72	19.73	19.71	20.5		
Channel				132022	132322	132622		Tune-up freq. (dBm)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	19.13	19.16	19.19	20.5		
10	QPSK	1	25	19.36	19.37	19.43			
10	QPSK	1	49	19.12	19.15	19.19			
10	QPSK	25	0	19.38	19.40	19.45			
10	QPSK	25	12	19.51	19.44	19.56			
10	QPSK	25	25	19.39	19.43	19.46	20.5		
10	QPSK	50	0	19.45	19.45	19.52			
10	16QAM	1	0	19.49	19.52	19.58			
10	16QAM	1	25	19.74	19.79	19.82			
10	16QAM	1	49	19.47	19.53	19.58			
10	16QAM	25	0	19.39	19.41	19.46	20.5		
10	16QAM	25	12	19.53	19.45	19.60			
10	16QAM	25	25	19.41	19.44	19.51			
10	16QAM	50	0	19.46	19.47	19.52			
10	64QAM	1	0	19.38	19.39	19.44			
10	64QAM	1	25	19.68	19.70	19.77	20.5		
10	64QAM	1	49	19.43	19.43	19.48			
10	64QAM	25	0	19.43	19.47	19.53			
10	64QAM	25	12	19.56	19.52	19.63			
10	64QAM	25	25	19.43	19.46	19.53			
10	64QAM	50	0	19.49	19.49	19.55	20.5		
Channel				131997	132322	132647		Tune-up freq. (dBm)	
Frequency (MHz)				1712.5	1745	1777.5			
5	QPSK	1	0	19.32	19.39	19.42	20.5		
5	QPSK	1	12	19.39	19.42	19.48			
5	QPSK	1	24	19.32	19.33	19.36			
5	QPSK	12	0	19.52	19.48	19.52			
5	QPSK	12	7	19.50	19.52	19.52			
5	QPSK	12	13	19.44	19.46	19.49	20.5		
5	QPSK	25	0	19.46	19.47	19.49			
5	16QAM	1	0	19.65	19.74	19.77			
5	16QAM	1	12	19.65	19.71	19.78			
5	16QAM	1	24	19.62	19.66	19.72			
5	16QAM	12	0	19.56	19.51	19.53	20.5		
5	16QAM	12	7	19.55	19.54	19.55			
5	16QAM	12	13	19.48	19.46	19.53			
5	16QAM	25	0	19.50	19.53	19.52			
5	64QAM	1	0	19.69	19.65	19.69			
5	64QAM	1	12	19.61	19.69	19.72	20.5		
5	64QAM	1	24	19.52	19.57	19.67			
5	64QAM	12	0	19.60	19.55	19.64			
5	64QAM	12	7	19.61	19.61	19.58			
5	64QAM	12	13	19.52	19.54	19.60			
5	64QAM	25	0	19.52	19.51	19.55	20.5		
Channel				131987	132322	132657		Tune-up freq. (dBm)	
Frequency (MHz)				1711.5	1745	1778.5			
3	QPSK	1	0	19.39	19.43	19.47	20.5		
3	QPSK	1	8	19.47	19.47	19.51			
3	QPSK	1	14	19.38	19.36	19.42			
3	QPSK	8	0	19.53	19.50	19.56			
3	QPSK	8	4	19.53	19.56	19.53			
3	QPSK	8	7	19.45	19.47	19.54	20.5		
3	QPSK	15	0	19.49	19.52	19.50			
3	16QAM	1	0	19.76	19.76	19.80			
3	16QAM	1	8	19.70	19.62	19.88			
3	16QAM	1	14	19.66	19.71	19.76			
3	16QAM	8	0	19.59	19.52	19.81	20.5		
3	16QAM	8	4	19.57	19.60	19.62			
3	16QAM	8	7	19.50	19.54	19.58			
3	64QAM	15	0	19.53	19.53	19.57			
3	64QAM	1	0	19.66	19.67	19.77			
3	64QAM	1	8	19.68	19.73	19.80	20.5		
3	64QAM	1	14	19.58	19.64	19.72			
3	64QAM	8	0	19.61	19.56	19.64			
3	64QAM	8	4	19.61	19.61	19.63			
3	64QAM	8	7	19.52	19.54	19.62			
3	64QAM	15	0	19.53	19.56	19.56	20.5		
Channel				131978	132322	132665		Tune-up freq. (dBm)	
Frequency (MHz)				1710.7	1745	1779.3			
1.4	QPSK	1	0	19.28	19.37	19.42	20.5		
1.4	QPSK	1	3	19.37	19.39	19.44			
1.4	QPSK	1	6	19.28	19.31	19.37			
1.4	QPSK	3	0	19.34	19.36	19.42			
1.4	QPSK	3	1	19.40	19.39	19.45			
1.4	QPSK	3	3	19.34	19.33	19.39	20.5		
1.4	QPSK	6	0	19.39	19.41	19.48			
1.4	16QAM	1	0	19.60	19.68	19.76			
1.4	16QAM	1	3	19.74	19.73	19.81			
1.4	16QAM	3	0	19.62	19.63	19.69			
1.4	16QAM	3	1	19.67	19.67	19.56	20.5		
1.4	16QAM	3	3	19.38	19.43	19.49			
1.4	16QAM	6	0	19.48	19.53	19.59			
1.4	16QAM	6	3	19.63	19.63	19.67			
1.4	16QAM	3	3	19.65	19.65	19.73			
1.4	64QAM	1	5	19.62	19.53	19.65	20.5		
1.4	64QAM	3	0	19.58	19.59	19.65			
1.4	64QAM	3	1	19.60	19.61	19.69			
1.4	64QAM	3	3	19.63	19.56	19.63			
1.4	64QAM	3	6	19.47	19.51	19.57			



Band 2_Ant 2							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./ Freq. 18700	Power Middle Ch./ Freq. 18900	Power High Ch./ Freq. 19100	Tune-up limit (dBm)
Channel				1860	1880	1900	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.12	17.02	17.03	18
20	QPSK	1	49	16.94	16.97	17.01	
20	QPSK	1	99	16.94	16.96	16.93	
20	QPSK	50	0	17.07	16.99	17.01	
20	QPSK	50	24	17.13	17.13	17.09	18
20	QPSK	50	50	17.08	17.10	17.10	
20	QPSK	100	0	17.08	17.05	17.05	
20	16QAM	1	0	17.49	17.35	17.28	
20	16QAM	1	49	17.39	17.37	17.41	18
20	16QAM	1	99	17.32	17.34	17.34	
20	16QAM	50	0	17.09	17.00	17.02	
20	16QAM	50	24	17.16	17.16	17.11	
20	16QAM	50	50	17.11	17.12	17.13	18
20	16QAM	100	0	17.09	17.05	17.05	
20	64QAM	1	0	17.38	17.28	17.31	
20	64QAM	1	49	17.28	17.23	17.26	
20	64QAM	1	99	17.21	17.21	17.19	18
20	64QAM	50	0	17.13	17.03	17.06	
20	64QAM	50	24	17.19	17.18	17.12	
20	64QAM	50	50	17.12	17.15	17.16	
20	64QAM	100	0	17.11	17.13	17.07	
Channel				1867.5	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)
15	QPSK	1	0	16.97	17.01	17.06	18
15	QPSK	1	37	16.98	16.88	16.97	
15	QPSK	1	74	16.92	17.01	16.97	
15	QPSK	36	0	17.13	17.00	17.04	
15	QPSK	36	20	17.14	17.12	17.18	18
15	QPSK	36	39	17.12	17.11	17.12	
15	QPSK	75	0	17.10	17.11	17.04	
15	16QAM	1	0	17.32	17.37	17.40	
15	16QAM	1	37	17.39	17.36	17.40	18
15	16QAM	1	74	17.22	17.34	17.32	
15	16QAM	36	0	17.12	17.03	17.04	
15	16QAM	36	20	17.16	17.14	17.18	
15	16QAM	36	39	17.11	17.14	17.14	18
15	16QAM	75	0	17.14	17.12	17.05	
15	64QAM	1	0	17.21	17.25	17.30	
15	64QAM	1	37	17.28	17.23	17.28	
15	64QAM	1	74	17.18	17.23	17.22	18
15	64QAM	36	0	17.18	17.04	17.09	
15	64QAM	36	20	17.20	17.19	17.23	
15	64QAM	36	39	17.17	17.17	17.16	
15	64QAM	75	0	17.15	17.13	17.07	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)
10	QPSK	1	0	16.59	16.53	16.52	18
10	QPSK	1	25	16.89	16.88	16.88	
10	QPSK	1	49	16.54	16.80	16.84	
10	QPSK	25	0	16.97	16.83	16.84	
10	QPSK	25	12	17.00	16.98	16.93	18
10	QPSK	25	25	16.88	16.88	16.88	
10	QPSK	50	0	16.94	16.91	16.85	
10	16QAM	1	0	17.02	16.91	17.30	
10	16QAM	1	25	17.27	17.25	17.25	18
10	16QAM	1	49	16.97	16.96	17.22	
10	16QAM	25	0	16.98	16.83	16.87	
10	16QAM	25	12	17.06	17.02	16.95	
10	16QAM	25	25	16.90	16.90	16.90	18
10	16QAM	50	0	16.96	16.93	16.83	
10	64QAM	1	0	16.94	16.90	17.17	
10	64QAM	1	25	17.23	17.18	17.20	
10	64QAM	1	49	16.90	16.89	17.15	18
10	64QAM	25	0	17.01	16.89	16.90	
10	64QAM	25	12	17.09	17.06	17.09	
10	64QAM	25	25	16.95	16.94	16.91	
10	64QAM	50	0	16.97	16.96	16.91	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	Tune-up limit (dBm)
5	QPSK	1	0	16.81	16.58	16.89	18
5	QPSK	1	12	16.85	16.81	16.94	
5	QPSK	1	24	16.50	16.51	16.77	
5	QPSK	12	0	16.95	16.74	16.80	
5	QPSK	12	7	17.01	17.02	16.88	18
5	QPSK	12	13	16.83	16.83	16.78	
5	QPSK	25	0	16.86	16.83	16.91	
5	16QAM	1	0	16.94	16.84	17.39	
5	16QAM	1	12	17.22	17.26	17.16	18
5	16QAM	1	24	17.07	16.89	17.15	
5	16QAM	12	0	16.99	16.90	16.92	
5	16QAM	12	7	17.12	16.97	16.91	
5	16QAM	12	13	16.86	16.99	16.81	18
5	16QAM	25	0	16.93	16.90	16.84	
5	64QAM	1	0	16.92	16.90	17.10	
5	64QAM	1	12	17.14	17.10	17.30	
5	64QAM	1	24	16.90	16.79	17.08	18
5	64QAM	12	0	17.10	16.88	17.00	
5	64QAM	12	7	17.07	17.16	16.99	
5	64QAM	12	13	16.85	16.94	16.82	
5	64QAM	25	0	16.88	16.92	16.98	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1906.5	Tune-up limit (dBm)
3	QPSK	1	0	16.66	16.57	16.85	18
3	QPSK	1	8	16.82	16.90	16.89	
3	QPSK	1	14	16.50	16.51	16.76	
3	QPSK	8	0	16.87	16.73	16.82	
3	QPSK	8	4	17.03	16.90	17.02	18
3	QPSK	8	7	16.87	16.93	16.94	
3	QPSK	15	0	16.99	16.97	16.84	
3	16QAM	1	0	16.94	16.83	17.38	
3	16QAM	1	8	17.30	17.29	17.25	18
3	16QAM	1	14	17.02	16.89	17.32	
3	16QAM	8	0	16.91	16.84	16.77	
3	16QAM	8	4	17.13	16.92	16.86	
3	16QAM	8	7	16.89	16.97	16.95	18
3	16QAM	15	0	16.98	16.86	16.84	
3	64QAM	1	0	16.89	16.72	17.14	
3	64QAM	1	8	17.16	17.12	17.15	
3	64QAM	1	14	16.86	16.99	17.20	18
3	64QAM	8	0	17.10	16.81	16.86	
3	64QAM	8	4	17.14	17.02	16.96	
3	64QAM	8	7	16.96	16.96	16.90	
3	64QAM	15	0	17.06	17.05	16.94	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1906.3	Tune-up limit (dBm)
1.4	QPSK	1	0	16.90	16.84	16.80	18
1.4	QPSK	1	3	16.92	16.89	16.87	
1.4	QPSK	1	5	16.84	16.79	16.74	
1.4	QPSK	3	0	16.93	16.84	16.83	
1.4	QPSK	3	1	16.94	16.86	16.84	18
1.4	QPSK	3	3	16.87	16.81	16.77	
1.4	QPSK	6	0	16.99	16.89	16.87	
1.4	16QAM	1	0	17.23	17.19	17.13	
1.4	16QAM	1	3	17.27	17.23	17.20	18
1.4	16QAM	1	5	17.16	17.12	17.09	
1.4	16QAM	3	0	16.98	16.96	16.91	
1.4	16QAM	3	1	17.05	16.97	16.94	
1.4	16QAM	3	3	16.94	16.90	16.87	18
1.4	16QAM	6	0	17.05	17.02	16.98	
1.4	64QAM	1	0	17.16	17.12	17.05	
1.4	64QAM	1	3	17.21	17.13	17.09	
1.4	64QAM	1	5	17.12	17.03	16.98	18
1.4	64QAM	3	0	17.13	17.06	17.05	
1.4	64QAM	3	1	17.20	17.11	17.10	
1.4	64QAM	3	3	17.13	17.06	17.00	
1.4	64QAM	6	0	17.01	16.94	16.93	18



Band 4_Ant 2											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch./Freq. 20500	Power High Ch./Freq. 20175	Power High Ch./Freq. 20300	Turn-up limit (dBm)				
Channel				Frequency (MHz)							
				1720 1732.5 1745							
20	QPSK	1	0	17.38	17.39	17.38	18.5				
20	QPSK	1	49	17.56	17.57	17.55					
20	QPSK	1	99	17.26	17.27	17.26					
20	QPSK	50	0	17.61	17.59	17.59	18.5				
20	QPSK	50	24	17.75	17.67	17.66					
20	QPSK	50	50	17.64	17.63	17.63					
20	QPSK	100	0	17.65	17.56	17.56	18.5				
20	16QAM	1	0	17.71	17.69	17.69					
20	16QAM	1	49	17.51	17.57	17.51					
20	16QAM	1	99	17.68	17.63	17.61	18.5				
20	16QAM	50	0	17.59	17.60	17.60					
20	16QAM	50	24	17.75	17.66	17.65					
20	16QAM	50	50	17.62	17.62	17.62	18.5				
20	16QAM	100	0	17.64	17.53	17.54					
20	64QAM	1	0	17.59	17.57	17.55					
20	64QAM	1	49	17.73	17.84	17.78	18.5				
20	64QAM	1	99	17.54	17.49	17.54					
20	64QAM	50	0	17.63	17.62	17.61					
20	64QAM	50	24	17.76	17.68	17.66	18.5				
20	64QAM	50	50	17.65	17.65	17.65					
20	64QAM	100	0	17.67	17.58	17.57					
Channel				20025 20175 20305			Turn-up limit (dBm)				
				1717.5 1732.5 1747.5							
15	QPSK	1	0	17.45	17.46	17.45	18.5				
15	QPSK	1	37	17.55	17.58	17.55					
15	QPSK	1	74	17.42	17.45	17.44					
15	QPSK	36	0	17.62	17.63	17.61	18.5				
15	QPSK	36	20	17.74	17.65	17.74					
15	QPSK	36	39	17.66	17.66	17.66					
15	QPSK	75	0	17.66	17.60	17.65	18.5				
15	16QAM	1	0	17.77	17.76	17.77					
15	16QAM	1	37	17.56	17.52	17.52					
15	16QAM	1	74	17.81	17.76	17.75	18.5				
15	16QAM	36	0	17.60	17.61	17.58					
15	16QAM	36	20	17.72	17.64	17.72					
15	16QAM	36	39	17.66	17.65	17.64	18.5				
15	16QAM	75	0	17.69	17.59	17.67					
15	64QAM	1	0	17.66	17.67	17.67					
15	64QAM	1	37	17.82	17.82	17.83	18.5				
15	64QAM	1	74	17.67	17.67	17.65					
15	64QAM	36	0	17.63	17.65	17.65					
15	64QAM	36	20	17.77	17.68	17.74	18.5				
15	64QAM	36	39	17.72	17.69	17.71					
15	64QAM	75	0	17.69	17.60	17.69					
Channel				20000 20175 20350			Turn-up limit (dBm)				
				1715 1732.5 1750							
10	QPSK	1	0	17.14	17.15	17.18	18.5				
10	QPSK	1	25	17.42	17.43	17.41					
10	QPSK	1	49	17.11	17.05	17.08					
10	QPSK	25	0	17.43	17.40	17.39	18.5				
10	QPSK	25	12	17.57	17.48	17.47					
10	QPSK	25	25	17.43	17.43	17.42					
10	QPSK	50	0	17.50	17.39	17.38	18.5				
10	16QAM	1	0	17.53	17.55	17.53					
10	16QAM	1	25	17.81	17.83	17.80					
10	16QAM	1	49	17.48	17.46	17.48	18.5				
10	16QAM	25	0	17.44	17.47	17.43					
10	16QAM	25	12	17.57	17.51	17.49					
10	16QAM	25	25	17.43	17.44	17.46	18.5				
10	16QAM	50	0	17.47	17.42	17.40					
10	64QAM	1	0	17.39	17.37	17.36					
10	64QAM	1	25	17.73	17.73	17.71	18.5				
10	64QAM	1	49	17.36	17.39	17.37					
10	64QAM	25	0	17.42	17.42	17.44					
10	64QAM	25	12	17.59	17.51	17.50	18.5				
10	64QAM	25	25	17.46	17.43	17.44					
10	64QAM	50	0	17.50	17.41	17.38					
Channel				19975 20175 20375			Turn-up limit (dBm)				
				1712.5 1732.5 1752.5							
5	QPSK	1	0	17.15	17.25	17.21	18.5				
5	QPSK	1	12	17.46	17.37	17.49					
5	QPSK	1	24	17.21	17.06	17.04					
5	QPSK	12	0	17.52	17.33	17.33	18.5				
5	QPSK	12	7	17.67	17.45	17.46					
5	QPSK	12	13	17.41	17.39	17.40					
5	QPSK	25	0	17.47	17.42	17.30	18.5				
5	16QAM	1	0	17.45	17.46	17.57					
5	16QAM	1	12	17.60	17.57	17.81					
5	16QAM	1	24	17.58	17.41	17.49	18.5				
5	16QAM	12	7	17.66	17.58	17.58					
5	16QAM	12	13	17.41	17.53	17.42					
5	16QAM	25	0	17.54	17.32	17.43	18.5				
5	64QAM	1	0	17.48	17.46	17.30					
5	64QAM	1	12	17.63	17.77	17.70					
5	64QAM	1	24	17.28	17.48	17.47	18.5				
5	64QAM	12	0	17.45	17.47	17.45					
5	64QAM	12	7	17.66	17.48	17.43					
5	64QAM	12	13	17.42	17.33	17.40	18.5				
5	64QAM	25	0	17.57	17.38	17.42					
Channel				19965 20175 20385				Turn-up limit (dBm)			
				1711.5 1732.5 1753.5							
3	QPSK	1	0	17.24	17.06	17.21	18.5				
3	QPSK	1	8	17.45	17.40	17.37					
3	QPSK	1	14	17.16	17.06	17.07					
3	QPSK	8	0	17.47	17.35	17.45	18.5				
3	QPSK	8	4	17.57	17.52	17.52					
3	QPSK	8	7	17.44	17.35	17.42					
3	QPSK	15	0	17.40	17.45	17.43	18.5				
3	16QAM	1	0	17.62	17.53	17.44					
3	16QAM	1	8	17.77	17.90	17.83					
3	16QAM	1	14	17.43	17.53	17.41	18.5				
3	16QAM	8	0	17.54	17.48	17.38					
3	16QAM	8	4	17.62	17.54	17.59					
3	16QAM	8	7	17.36	17.36	17.47	18.5				
3	16QAM	15	0	17.51	17.49	17.37					
3	64QAM	1	0	17.40	17.39	17.26					
3	64QAM	1	8	17.82	17.77	17.76	18.5				
3	64QAM	1	14	17.42	17.37	17.41					
3	64QAM	8	0	17.33	17.37	17.50					
3	64QAM	8	4	17.65	17.61	17.44	18.5				
3	64QAM	8	7	17.53	17.52	17.48					
3	64QAM	15	0	17.45	17.50	17.41					
Channel				19957 20175 20393			Turn-up limit (dBm)				
				1710.7 1732.5 1754.3							
1.4	QPSK	1	0	17.32	17.38	17.35	18.5				
1.4	QPSK	1	3	17.42	17.42	17.42					
1.4	QPSK	1	5	17.36	17.35	17.35					
1.4	QPSK	3	0	17.44	17.41	17.32	18.5				
1.4	QPSK	3	1	17.50	17.46	17.31					
1.4	QPSK	3	3	17.43	17.37	17.36	18.5				
1.4	QPSK	6	0	17.45	17.48	17.39					
1.4	16QAM	1	0	17.66	17.75	17.66					
1.4	16QAM	1	3	17.77	17.81	17.80	18.5				
1.4	16QAM	1	5	17.67	17.68	17.71					
1.4	16QAM	3	0	17.47	17.49	17.45					
1.4	16QAM	3	1	17.52	17.56	17.45	18.5				
1.4	16QAM	6	0	17.54	17.62	17.51					
1.4	16QAM	6	3	17.57	17.64	17.55					
1.4	64QAM	1	3	17.69	17.65	17.63	18.5				
1.4	64QAM	1	5	17.58	17.57	17.54					
1.4	64QAM	3	0	17.62	17.60	17.53					
1.4	64QAM	3	1	17.65	17.63	17.57	18.5				
1.4	64QAM	6	0	17.76	17.78	17.69					
1.4	64QAM	6	3	17.47	17.45	17.37					

Band 5_Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 20450	Power Middle Ch. / Freq. 20525	Power High Ch. / Freq. 20600	Tune-up limit (dBm)				
Channel				829	836.5	844					
Frequency (MHz)											
10	QPSK	1	0	21.99	21.99	22.03	23				
10	QPSK	1	25	21.94	21.96	21.96					
10	QPSK	1	49	21.97	21.93	21.91					
10	QPSK	25	0	22.03	22.02	22.03	23				
10	QPSK	25	12	22.11	22.09	22.05					
10	QPSK	25	25	22.07	22.06	22.05					
10	QPSK	50	0	22.02	22.01	21.95	23				
10	16QAM	1	0	22.36	22.37	22.36					
10	16QAM	1	25	22.35	22.36	22.33					
10	16QAM	1	49	22.33	22.30	22.31	23				
10	16QAM	25	0	22.00	22.04	22.04					
10	16QAM	25	12	22.12	22.14	22.05					
10	16QAM	25	25	22.05	22.09	22.07	23				
10	16QAM	50	0	22.02	22.04	21.96					
10	64QAM	1	0	22.18	22.20	22.23					
10	64QAM	1	25	22.23	22.25	22.26	23				
10	64QAM	1	49	22.24	22.21	22.18					
10	64QAM	25	0	21.09	21.07	21.10					
10	64QAM	25	12	21.18	21.16	21.12	22				
10	64QAM	25	25	21.10	21.11	21.11					
10	64QAM	50	0	21.07	21.06	21.01					
Channel				20425	20525	20625	Tune-up limit (dBm)				
Frequency (MHz)				826.5	836.5	846.5					
5	QPSK	1	0	21.87	21.90	21.85	23				
5	QPSK	1	12	22.00	22.02	22.00					
5	QPSK	1	24	21.96	21.96	21.91					
5	QPSK	12	0	22.00	22.02	22.00	23				
5	QPSK	12	7	22.10	22.10	22.10					
5	QPSK	12	13	22.07	22.08	22.04					
5	QPSK	25	0	22.07	22.06	22.06	23				
5	16QAM	1	0	22.22	22.23	22.21					
5	16QAM	1	12	22.32	22.31	22.25					
5	16QAM	1	24	22.29	22.28	22.25	23				
5	16QAM	12	0	22.03	22.02	22.05					
5	16QAM	12	7	22.12	22.14	22.13					
5	16QAM	12	13	22.10	22.10	22.07	23				
5	16QAM	25	0	22.12	22.11	22.07					
5	64QAM	1	0	22.14	22.12	22.12					
5	64QAM	1	12	22.19	22.22	22.17	23				
5	64QAM	1	24	22.14	22.20	22.12					
5	64QAM	12	0	21.09	21.10	21.09					
5	64QAM	12	7	21.20	21.19	21.19	22				
5	64QAM	12	13	21.17	21.18	21.13					
5	64QAM	25	0	21.11	21.10	21.09					
Channel				20415	20525	20635	Tune-up limit (dBm)				
Frequency (MHz)				825.5	836.5	847.5					
3	QPSK	1	0	21.88	21.92	21.89	23				
3	QPSK	1	8	22.04	22.05	22.01					
3	QPSK	1	14	21.99	21.97	21.92					
3	QPSK	8	0	22.00	22.00	22.02	23				
3	QPSK	8	4	22.10	22.09	22.11					
3	QPSK	8	7	22.07	22.09	22.06					
3	QPSK	15	0	22.07	22.07	22.00	23				
3	16QAM	1	0	22.20	22.30	22.28					
3	16QAM	1	8	22.30	22.34	22.32					
3	16QAM	1	14	22.33	22.36	22.27	23				
3	16QAM	8	0	22.08	22.08	22.06					
3	16QAM	8	4	22.18	22.18	22.16					
3	16QAM	8	7	22.15	22.14	22.10	23				
3	16QAM	15	0	22.12	22.14	22.03					
3	64QAM	1	0	22.09	22.12	22.12					
3	64QAM	1	8	22.24	22.27	22.25	23				
3	64QAM	1	14	22.16	22.23	22.16					
3	64QAM	8	0	21.10	21.10	21.09					
3	64QAM	8	4	21.17	21.17	21.16	22				
3	64QAM	8	7	21.15	21.17	21.15					
3	64QAM	15	0	21.12	21.11	21.04					
Channel				20407	20525	20643	Tune-up limit (dBm)				
Frequency (MHz)				824.7	836.5	848.3					
1.4	QPSK	1	0	21.87	21.94	21.89	23				
1.4	QPSK	1	3	21.98	21.98	21.97					
1.4	QPSK	1	5	21.99	21.98	21.85					
1.4	QPSK	3	0	21.90	21.94	21.89	23				
1.4	QPSK	3	1	21.93	21.96	21.94					
1.4	QPSK	3	3	21.94	21.94	21.89					
1.4	QPSK	6	0	22.01	22.01	21.98	23				
1.4	16QAM	1	0	22.17	22.27	22.19					
1.4	16QAM	1	3	22.32	22.31	22.30					
1.4	16QAM	1	5	22.24	22.25	22.18	23				
1.4	16QAM	3	0	22.03	22.01	21.98					
1.4	16QAM	3	1	22.07	22.08	22.00					
1.4	16QAM	3	3	22.04	22.01	21.94	23				
1.4	16QAM	6	0	22.12	22.10	22.06					
1.4	64QAM	1	0	22.07	22.16	22.14					
1.4	64QAM	1	3	22.18	22.22	22.17	23				
1.4	64QAM	1	5	22.13	22.13	22.08					
1.4	64QAM	3	0	22.12	22.12	22.11					
1.4	64QAM	3	1	22.18	22.17	22.16	22				
1.4	64QAM	3	3	22.12	22.13	22.10					
1.4	64QAM	6	0	21.03	21.02	21.00					

Band_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				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	15.60	15.60	15.66	16.5
20	QPSK	1	49	15.61	15.65	15.73	
20	QPSK	1	99	15.70	15.71	15.74	
20	QPSK	50	0	15.69	15.78	15.80	16.5
20	QPSK	50	24	15.78	15.78	15.84	
20	QPSK	50	50	15.81	15.83	15.88	
20	QPSK	100	0	15.74	15.68	15.73	16.5
20	16QAM	1	0	15.97	15.94	16.07	
20	16QAM	1	49	15.97	16.05	16.10	
20	16QAM	1	99	16.05	16.08	16.09	16.5
20	16QAM	50	0	15.74	15.76	15.83	
20	16QAM	50	24	15.83	15.82	15.86	
20	16QAM	50	50	15.87	15.87	15.90	16.5
20	16QAM	100	0	15.71	15.66	15.74	
20	64QAM	1	0	15.80	15.79	15.88	
20	64QAM	1	49	15.89	15.95	15.97	16.5
20	64QAM	1	99	15.95	15.98	16.02	
20	64QAM	50	0	15.79	15.82	15.86	
20	64QAM	50	24	15.87	15.87	15.89	16.5
20	64QAM	50	50	15.86	15.93	15.94	
20	64QAM	100	0	15.74	15.71	15.80	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	15.64	15.64	15.74	16.5
15	QPSK	1	37	15.64	15.63	15.74	
15	QPSK	1	74	15.71	15.75	15.79	
15	QPSK	36	0	15.74	15.73	15.80	16.5
15	QPSK	36	20	15.80	15.75	15.88	
15	QPSK	36	39	15.82	15.85	15.90	
15	QPSK	75	0	15.73	15.69	15.75	16.5
15	16QAM	1	0	15.97	15.96	16.01	
15	16QAM	1	37	15.98	16.04	16.06	
15	16QAM	1	74	16.04	16.08	16.09	16.5
15	16QAM	36	0	15.76	15.75	15.81	
15	16QAM	36	20	15.84	15.80	15.90	
15	16QAM	36	39	15.84	15.86	15.90	16.5
15	16QAM	75	0	15.76	15.74	15.76	
15	64QAM	1	0	15.81	15.80	15.92	
15	64QAM	1	37	15.88	15.94	15.99	16.5
15	64QAM	1	74	15.94	15.98	16.03	
15	64QAM	36	0	15.75	15.79	15.85	
15	64QAM	36	20	15.89	15.84	15.94	16.5
15	64QAM	36	39	15.90	15.92	15.95	
15	64QAM	75	0	15.78	15.74	15.80	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	15.41	15.46	15.47	16.5
10	QPSK	1	25	15.41	15.53	15.52	
10	QPSK	1	49	15.46	15.54	15.56	
10	QPSK	25	0	15.45	15.55	15.58	16.5
10	QPSK	25	12	15.57	15.56	15.68	
10	QPSK	25	25	15.56	15.65	15.65	
10	QPSK	50	0	15.49	15.50	15.59	16.5
10	16QAM	1	0	15.82	15.85	15.90	
10	16QAM	1	25	15.83	15.94	15.92	
10	16QAM	1	49	15.85	15.95	15.96	16.5
10	16QAM	25	0	15.49	15.57	15.61	
10	16QAM	25	12	15.58	15.59	15.67	
10	16QAM	25	25	15.62	15.68	15.68	16.5
10	16QAM	50	0	15.49	15.47	15.57	
10	64QAM	1	0	15.65	15.70	15.72	
10	64QAM	1	25	15.72	15.80	15.83	16.5
10	64QAM	1	49	15.75	15.82	15.85	
10	64QAM	25	0	15.54	15.59	15.63	
10	64QAM	25	12	15.59	15.64	15.71	16.5
10	64QAM	25	25	15.64	15.70	15.70	
10	64QAM	50	0	15.53	15.51	15.60	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	15.32	15.36	15.53	16.5
5	QPSK	1	12	15.40	15.51	15.48	
5	QPSK	1	24	15.56	15.61	15.62	
5	QPSK	12	0	15.37	15.48	15.50	16.5
5	QPSK	12	7	15.50	15.58	15.61	
5	QPSK	12	13	15.64	15.61	15.62	
5	QPSK	25	0	15.54	15.54	15.61	16.5
5	16QAM	1	0	15.90	15.79	15.85	
5	16QAM	1	12	15.90	15.89	15.94	
5	16QAM	1	24	15.90	16.04	15.87	16.5
5	16QAM	12	0	15.42	15.67	15.70	
5	16QAM	12	7	15.64	15.59	15.74	
5	16QAM	12	13	15.62	15.77	15.75	16.5
5	16QAM	25	0	15.42	15.44	15.67	
5	64QAM	1	0	15.55	15.67	15.82	
5	64QAM	1	12	15.80	15.77	15.90	16.5
5	64QAM	1	24	15.67	15.83	15.79	
5	64QAM	12	0	15.62	15.58	15.72	
5	64QAM	12	7	15.55	15.70	15.79	16.5
5	64QAM	12	13	15.61	15.62	15.68	
5	64QAM	25	0	15.51	15.53	15.58	

Band 25_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				26140	26340	26590			
Frequency (MHz)				1860	1880	1905			
20	QPSK	1	0	17.29	17.21	17.25	18		
20	QPSK	1	49	17.15	17.13	17.19			
20	QPSK	1	99	17.10	17.14	17.10			
20	QPSK	50	0	17.36	17.26	17.28			
20	QPSK	50	24	17.35	17.29	17.27	18		
20	QPSK	50	50	17.29	17.26	17.29			
20	QPSK	100	0	17.21	17.20	17.24			
20	16QAM	1	0	17.64	17.53	17.60			
20	16QAM	1	49	17.54	17.53	17.54	18		
20	16QAM	1	99	17.41	17.47	17.43			
20	16QAM	50	0	17.36	17.22	17.26			
20	16QAM	50	24	17.27	17.29	17.29			
20	16QAM	50	50	17.27	17.26	17.28	18		
20	16QAM	100	0	17.17	17.18	17.25			
20	64QAM	1	0	17.51	17.37	17.44			
20	64QAM	1	49	17.37	17.37	17.43			
20	64QAM	1	99	17.34	17.36	17.34	18		
20	64QAM	50	0	17.32	17.28	17.28			
20	64QAM	50	24	17.32	17.29	17.29			
20	64QAM	50	50	17.24	17.31	17.28			
20	64QAM	100	0	17.20	17.21	17.29	18		
Channel				26115	26340	26615			
Frequency (MHz)				1857.5	1880	1907.5			
15	QPSK	1	0	17.05	17.20	17.22	18		
15	QPSK	1	37	17.16	17.14	17.15			
15	QPSK	1	74	17.02	17.14	17.12			
15	QPSK	36	0	17.26	17.12	17.15			
15	QPSK	36	20	17.29	17.29	17.32	18		
15	QPSK	36	39	17.24	17.24	17.25			
15	QPSK	75	0	17.24	17.21	17.23			
15	16QAM	1	0	17.31	17.53	17.58			
15	16QAM	1	37	17.46	17.51	17.54	18		
15	16QAM	1	74	17.31	17.49	17.45			
15	16QAM	36	0	17.24	17.12	17.15			
15	16QAM	36	20	17.26	17.29	17.31			
15	16QAM	36	39	17.21	17.25	17.24	18		
15	16QAM	75	0	17.22	17.21	17.25			
15	64QAM	1	0	17.28	17.38	17.41			
15	64QAM	1	37	17.40	17.40	17.44			
15	64QAM	1	74	17.25	17.36	17.34	18		
15	64QAM	36	0	17.29	17.14	17.19			
15	64QAM	36	20	17.33	17.30	17.35			
15	64QAM	36	39	17.25	17.28	17.28			
15	64QAM	75	0	17.25	17.24	17.24	18		
Channel				26090 <th>26340</th> <th>26640</th> <th colspan="2"></th>	26340	26640			
Frequency (MHz)				1855 <th>1880</th> <th>1910</th> <th colspan="2"></th>	1880	1910			
10	QPSK	1	0	16.74	16.66	16.93	18		
10	QPSK	1	25	16.92	16.89	16.86			
10	QPSK	1	49	16.93	16.97	16.87			
10	QPSK	25	12	17.08	17.03	17.05			
10	QPSK	25	25	16.99	16.98	16.98	18		
10	QPSK	50	0	17.01	16.98	16.98			
10	16QAM	1	0	17.11	17.00	17.28			
10	16QAM	1	25	17.27	17.25	17.26			
10	16QAM	1	49	16.99	16.98	17.22	18		
10	16QAM	25	0	17.00	16.87	16.88			
10	16QAM	25	12	17.07	17.03	17.04			
10	16QAM	25	25	16.97	16.99	17.07			
10	16QAM	50	0	16.99	16.99	16.98	18		
10	64QAM	1	0	17.01	16.91	17.14			
10	64QAM	1	25	17.19	17.19	17.19			
10	64QAM	1	49	16.91	16.91	17.13			
10	64QAM	25	0	17.02	16.91	16.90	18		
10	64QAM	25	12	17.08	17.09	17.08			
10	64QAM	25	25	17.00	16.98	17.02			
10	64QAM	50	0	17.04	17.01	17.01			
Channel				26055 <th>26340</th> <th>26655</th> <th rowspan="4">18</th> <th colspan="2">Tune-up limit (dBm)</th>	26340	26655	18	Tune-up limit (dBm)	
Frequency (MHz)				1852.5 <th>1880</th> <th>1912.5<th colspan="2"></th></th>	1880	1912.5 <th colspan="2"></th>			
5	QPSK	1	0	16.72	16.74	16.96			
5	QPSK	1	12	16.89	16.97	16.80			
5	QPSK	1	24	16.95	16.99	16.76	18		
5	QPSK	12	0	16.93	16.88	16.98			
5	QPSK	12	7	17.18	17.08	16.97			
5	QPSK	12	13	16.91	16.99	16.93			
5	QPSK	25	0	16.95	16.97	16.99	18		
5	16QAM	1	0	17.11	17.00	17.38			
5	16QAM	1	12	17.24	17.33	17.19			
5	16QAM	1	24	17.05	16.95	17.13			
5	16QAM	12	0	16.94	16.77	16.84	18		
5	16QAM	12	7	17.00	16.95	17.02			
5	16QAM	12	13	17.05	17.02	16.87			
5	16QAM	25	0	17.04	16.99	16.86			
5	64QAM	1	0	16.92	16.91	17.10	18		
5	64QAM	1	12	17.22	17.14	17.11			
5	64QAM	1	24	17.00	16.95	17.09			
5	64QAM	12	0	16.95	16.81	16.84			
5	64QAM	12	7	17.17	17.05	17.12	18		
5	64QAM	12	13	17.03	17.02	17.06			
5	64QAM	25	0	16.97	17.01	17.02			
Channel				26055 <th>26340<th>26675</th><th colspan="2"></th></th>	26340 <th>26675</th> <th colspan="2"></th>	26675			
Frequency (MHz)				1851.5 <th>1880</th> <th>1913.5</th> <th colspan="2"></th>	1880	1913.5			
3	QPSK	1	0	16.69	16.58	16.97	18		
3	QPSK	1	8	16.99	16.80	16.95			
3	QPSK	1	14	16.95	16.73	16.92			
3	QPSK	8	0	17.04	16.77	16.79			
3	QPSK	8	4	17.18	17.11	17.05	18		
3	QPSK	8	7	17.00	16.97	16.94			
3	QPSK	15	0	16.94	16.90	17.01			
3	16QAM	1	0	17.13	17.08	17.23			
3	16QAM	1	8	17.25	17.23	17.18	18		
3	16QAM	1	14	17.08	17.07	17.29			
3	16QAM	8	0	16.93	16.93	16.79			
3	16QAM	8	4	17.02	17.07	17.07			
3	16QAM	8	7	16.91	16.96	17.06	18		
3	16QAM	15	0	16.99	16.98	17.00			
3	64QAM	1	0	17.10	16.93	17.20			
3	64QAM	1	8	17.17	17.13	17.11			
3	64QAM	1	14	16.94	16.93	17.12	18		
3	64QAM	8	0	17.09	17.00	16.93			
3	64QAM	8	4	17.17	17.19	17.06			
3	64QAM	8	7	16.91	17.02	17.06			
3	64QAM	15	0	17.06	17.11	17.10	18		
Channel				26047 <th>26340</th> <th>26683</th> <th colspan="2"></th>	26340	26683			
Frequency (MHz)				1850.7 <th>1880</th> <th>1914.3</th> <th colspan="2"></th>	1880	1914.3			
1.4	QPSK	1	0	16.88	16.82	16.77	18		
1.4	QPSK	1	3	16.96	16.89	16.92			
1.4	QPSK	1	5	16.90	16.83	16.83			
1.4	QPSK	3	0	16.91	16.85	16.74			
1.4	QPSK	3	1	16.92	16.89	16.77	18		
1.4	QPSK	3	3	16.90	16.86	16.83			
1.4	QPSK	6	0	16.99	16.92	16.86			
1.4	16QAM	1	0	17.20	17.13	17.06	18		
1.4	16QAM	1	3	17.21	17.24	17.24			
1.4	16QAM	3	5	17.16	17.13	17.15			
1.4	16QAM	3	0	17.01	16.94	16.88			
1.4	16QAM	3	3	16.97	16.89	16.89	18		
1.4	16QAM	6	0	17.07	17.00	16.96			
1.4	16QAM	6	3	17.09	17.06	17.06			
1.4	16QAM	3	3	17.20	17.13	17.09			
1.4	64QAM	1	5	17.17	17.06	17.05	18		
1.4	64QAM	3	0	17.14	17.04	16.97			
1.4	64QAM	3	1	17.16	17.09	17.02			
1.4	64QAM	3	3	17.14	17.05	17.05			

Band 26_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				20765	20865	20965			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	0	22.15	22.16	22.14	23		
15	QPSK	1	37	22.12	22.15	22.13			
15	QPSK	1	74	22.17	22.14	22.02			
15	QPSK	36	0	22.15	22.13	22.13			
15	QPSK	36	20	22.25	22.20	22.24	23		
15	QPSK	36	39	22.17	22.19	22.15			
15	QPSK	75	0	22.18	22.10	22.08			
15	16QAM	1	0	22.54	22.41	22.44			
15	16QAM	1	37	22.47	22.50	22.32	23		
15	16QAM	1	74	22.42	22.45	22.26			
15	16QAM	36	0	21.11	21.11	21.12			
15	16QAM	36	20	21.25	21.15	21.24			
15	16QAM	36	39	21.18	21.15	21.12	22		
15	16QAM	75	0	21.16	21.14	21.10			
15	64QAM	1	0	21.38	21.30	21.40			
15	64QAM	1	37	21.39	21.36	21.40			
15	64QAM	1	74	21.36	21.33	21.19	21		
15	64QAM	36	0	20.14	20.18	20.11			
15	64QAM	36	20	20.26	20.22	20.28			
15	64QAM	36	39	20.21	20.24	20.18			
15	64QAM	75	0	20.20	20.12	20.12	21		
Channel				26740	26865	26990			
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	22.04	22.12	22.08	23		
10	QPSK	1	25	21.95	22.03	22.01			
10	QPSK	1	49	21.94	22.10	21.86			
10	QPSK	25	0	21.96	21.97	21.95			
10	QPSK	25	12	22.10	22.07	22.10	23		
10	QPSK	25	25	22.01	22.14	22.04			
10	QPSK	50	0	21.99	22.04	21.99			
10	16QAM	1	0	22.42	22.48	22.36			
10	16QAM	1	25	22.41	22.38	22.34	23		
10	16QAM	1	49	22.28	22.33	22.29			
10	16QAM	25	0	20.92	20.99	20.86			
10	16QAM	25	12	21.10	21.09	21.11			
10	16QAM	25	25	21.03	21.10	21.07	22		
10	16QAM	50	0	21.03	21.02	20.98			
10	64QAM	1	0	21.35	21.32	21.28			
10	64QAM	1	25	21.29	21.35	21.31			
10	64QAM	1	49	21.19	21.24	21.09	21		
10	64QAM	25	0	20.00	20.00	20.04			
10	64QAM	25	12	20.14	20.16	20.12			
10	64QAM	25	25	19.99	20.11	20.10			
10	64QAM	50	0	20.09	20.03	20.01	21		
Channel				26715	26865	27015			
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	21.87	21.96	22.00	23		
5	QPSK	1	12	22.05	22.04	22.06			
5	QPSK	1	24	21.94	22.03	21.84			
5	QPSK	12	0	22.03	22.07	22.05			
5	QPSK	12	7	22.16	22.11	22.13	23		
5	QPSK	12	13	22.10	22.10	22.10			
5	QPSK	25	0	22.09	22.05	22.02			
5	16QAM	1	0	22.21	22.33	22.27			
5	16QAM	1	12	22.41	22.25	22.27	23		
5	16QAM	1	24	22.25	22.32	22.22			
5	16QAM	12	0	21.04	21.03	21.06			
5	16QAM	12	7	21.13	21.12	21.16			
5	16QAM	12	13	21.15	21.10	21.10	22		
5	16QAM	25	0	21.12	21.07	21.03			
5	64QAM	1	0	21.16	21.23	21.21			
5	64QAM	1	12	21.27	21.32	21.29			
5	64QAM	1	24	21.25	21.28	21.16	21		
5	64QAM	12	0	20.12	20.13	20.08			
5	64QAM	12	7	20.21	20.20	20.20			
5	64QAM	12	13	20.15	20.19	20.12			
5	64QAM	25	0	20.13	20.10	20.04	21		
Channel				26705	26865	27025			
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	21.92	21.99	22.03	23		
3	QPSK	1	8	22.10	22.12	22.04			
3	QPSK	1	14	21.94	22.08	21.85			
3	QPSK	8	0	22.03	22.06	22.08			
3	QPSK	8	4	22.12	22.14	22.12	23		
3	QPSK	8	7	22.11	22.11	22.06			
3	QPSK	15	0	22.11	22.05	22.08			
3	16QAM	1	0	22.25	22.25	22.31			
3	16QAM	1	8	22.31	22.36	22.27	23		
3	16QAM	1	14	22.39	22.35	22.21			
3	16QAM	8	0	21.09	21.08	21.11			
3	16QAM	8	4	21.15	21.17	21.15			
3	16QAM	8	7	21.17	21.12	21.10	22		
3	16QAM	15	0	21.09	21.08	21.06			
3	64QAM	1	0	21.11	21.15	21.19			
3	64QAM	1	8	21.30	21.34	21.22			
3	64QAM	1	14	21.21	21.21	21.10	22		
3	64QAM	8	0	20.08	20.08	20.14			
3	64QAM	8	4	20.19	20.20	20.17			
3	64QAM	8	7	20.15	20.17	20.12			
3	64QAM	15	0	20.13	20.08	20.07	21		
Channel				26697	26865	27033			
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	21.86	21.86	21.89	23		
1.4	QPSK	1	3	21.99	21.98	21.96			
1.4	QPSK	1	5	21.99	21.95	21.87			
1.4	QPSK	3	0	21.92	21.84	21.80			
1.4	QPSK	3	1	21.98	21.92	21.84	23		
1.4	QPSK	3	3	21.94	21.92	21.90			
1.4	QPSK	6	0	22.03	21.96	22.01			
1.4	16QAM	1	0	22.23	22.16	22.12			
1.4	16QAM	1	3	22.35	22.31	22.27	23		
1.4	16QAM	1	5	22.30	22.30	22.12			
1.4	16QAM	3	0	21.96	21.92	21.82			
1.4	16QAM	3	1	22.02	21.98	21.93			
1.4	16QAM	3	3	21.93	22.05	21.91	22		
1.4	16QAM	6	0	21.10	21.06	21.07			
1.4	64QAM	1	0	21.15	21.11	21.06			
1.4	64QAM	1	3	21.23	21.15	21.12			
1.4	64QAM	1	5	21.13	21.13	21.08	22		
1.4	64QAM	3	0	21.13	21.08	21.09			
1.4	64QAM	3	1	21.15	21.10	21.06			
1.4	64QAM	3	3	21.14	21.17	21.06			
1.4	64QAM	6	0	19.99	19.95	19.99	21		



Band 66_Ant 2											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 132072	Power High Ch. Freq. 132322	Power High Ch. Freq. 132572	Tune-up limit (dBm)				
Channel				132072	132322	132572					
Frequency (MHz)				1720	1745	1770					
20	QPSK	1	0	1742	1742	1768	18.5				
20	QPSK	1	49	1760	1760	1769					
20	QPSK	1	99	1728	1734	1758					
20	QPSK	50	0	1767	1770	1773	18.5				
20	QPSK	50	24	1779	1771	1784					
20	QPSK	50	50	1764	1765	1770					
20	QPSK	100	0	1769	1770	1776	18.5				
20	16QAM	1	0	1774	1780	1814					
20	16QAM	1	49	1757	1804	1809					
20	16QAM	1	99	1764	1769	1798	18.5				
20	16QAM	50	0	1768	1773	1775					
20	16QAM	50	24	1778	1774	1789					
20	16QAM	50	50	1765	1770	1773	18.5				
20	16QAM	100	0	1767	1774	1777					
20	64QAM	1	0	1780	1780	1794					
20	64QAM	1	49	1780	1787	1788	18.5				
20	64QAM	1	99	1753	1759	1780					
20	64QAM	50	24	1777	1771	1783					
20	64QAM	50	50	1766	1768	1771	18.5				
20	64QAM	100	0	1771	1772	1776					
Channel				132047	132322	132697		Tune-up limit (dBm)			
Frequency (MHz)				1717.5	1745	1772.5					
15	QPSK	1	0	1756	1756	1773	18.5				
15	QPSK	1	37	1758	1759	1766					
15	QPSK	1	74	1741	1746	1759					
15	QPSK	36	0	1769	1771	1776	18.5				
15	QPSK	36	20	1774	1777	1775					
15	QPSK	36	39	1767	1768	1774					
15	QPSK	75	0	1771	1771	1770	18.5				
15	16QAM	1	0	1785	1795	1813					
15	16QAM	1	37	1800	1803	1805					
15	16QAM	1	74	1776	1781	1797	18.5				
15	16QAM	36	0	1768	1774	1776					
15	16QAM	36	20	1773	1779	1775					
15	16QAM	36	39	1764	1771	1775	18.5				
15	16QAM	75	0	1771	1771	1774					
15	64QAM	1	0	1775	1772	1792					
15	64QAM	1	37	1785	1785	1793	18.5				
15	64QAM	1	74	1765	1767	1783					
15	64QAM	36	0	1773	1772	1779					
15	64QAM	36	20	1776	1778	1776	18.5				
15	64QAM	36	39	1769	1772	1777					
15	64QAM	75	0	1773	1776	1771					
Channel				132022	132322	132622	Tune-up limit (dBm)				
Frequency (MHz)				1715	1745	1775					
10	QPSK	1	0	1715 <td>1718<td>1724</td><td rowspan="3">18.5</td><td colspan="2"></td></td>	1718 <td>1724</td> <td rowspan="3">18.5</td> <td colspan="2"></td>	1724	18.5				
10	QPSK	1	25	1744	1743	1747					
10	QPSK	1	49	1718	1718	1720					
10	QPSK	25	0	1742	1743	1748	18.5				
10	QPSK	25	12	1758	1747	1763					
10	QPSK	25	25	1745	1745	1752					
10	QPSK	50	0	1749	1749	1755	18.5				
10	16QAM	1	0	1756	1756	1760					
10	16QAM	1	25	1781	1779	1784					
10	16QAM	1	49	1758	1755	1761	18.5				
10	16QAM	25	0	1748	1744	1751					
10	16QAM	25	12	1761	1753	1764					
10	16QAM	25	25	1745	1744	1753	18.5				
10	16QAM	50	0	1752	1750	1755					
10	64QAM	1	0	1740	1742	1748					
10	64QAM	1	25	1771	1770	1774	18.5				
10	64QAM	1	49	1744	1747	1748					
10	64QAM	25	0	1745	1745	1752					
10	64QAM	25	12	1758	1751	1767	18.5				
10	64QAM	25	25	1746	1747	1754					
10	64QAM	50	0	1751	1750	1755					
Channel				131997	132322	132657	Tune-up limit (dBm)				
Frequency (MHz)				1712.5	1745	1777.5					
5	QPSK	1	0	1724	1724	1727	18.5				
5	QPSK	1	12	1749	1747	1751					
5	QPSK	1	24	1728	1727	1722					
5	QPSK	12	0	1732	1749	1751	18.5				
5	QPSK	12	7	1753	1755	1768					
5	QPSK	12	13	1754	1736	1761					
5	QPSK	25	0	1740	1753	1748	18.5				
5	16QAM	1	0	1757	1756	1769					
5	16QAM	1	12	1780	1782	1776					
5	16QAM	1	24	1763	1761	1766	18.5				
5	16QAM	12	0	1740	1745	1745					
5	16QAM	12	7	1756	1756	1759					
5	16QAM	12	13	1754	1754	1753	18.5				
5	16QAM	25	0	1752	1748	1750					
5	64QAM	1	0	1739	1752	1750					
5	64QAM	1	12	1781	1761	1766	18.5				
5	64QAM	1	24	1748	1754	1751					
5	64QAM	12	0	1739	1755	1744					
5	64QAM	12	7	1749	1756	1769	18.5				
5	64QAM	12	13	1746	1758	1762					
5	64QAM	25	0	1753	1742	1755					
Channel				131987	132322	132657	Tune-up limit (dBm)				
Frequency (MHz)				1711.5	1745	1778.5					
3	QPSK	1	0	1721	1717	1717	18.5				
3	QPSK	1	8	1754	1744	1756					
3	QPSK	1	14	1719	1724	1721					
3	QPSK	8	0	1744	1739	1749	18.5				
3	QPSK	8	4	1752	1754	1757					
3	QPSK	8	7	1738	1740	1761					
3	QPSK	15	0	1759	1747	1746	18.5				
3	16QAM	1	0	1763	1756	1759					
3	16QAM	1	8	1784	1778	1776					
3	16QAM	1	14	1748	1756	1758	18.5				
3	16QAM	8	0	1751	1744	1751					
3	16QAM	8	4	1761	1745	1767					
3	16QAM	8	7	1746	1749	1748	18.5				
3	16QAM	15	0	1758	1753	1761					
3	64QAM	1	0	1737	1733	1742	18.5				
3	64QAM	1	8	1773	1767	1779					
3	64QAM	1	14	1749	1749	1746					
3	64QAM	8	0	1738	1736	1745	18.5				
3	64QAM	8	4	1753	1754	1768					
3	64QAM	8	7	1750	1748	1754					
3	64QAM	15	0	1744	1751	1748	18.5				
Channel				131978	132322	132665	Tune-up limit (dBm)				
Frequency (MHz)				1710.7	1745	1779.3					
1.4	QPSK	1	0	1730	1739	1746	18.5				
1.4	QPSK	1	3	1741	1742	1753					
1.4	QPSK	1	5	1733	1735	1742					
1.4	QPSK	3	0	1742	1739	1746	18.5				
1.4	QPSK	3	1	1742	1741	1747					
1.4	QPSK	3	3	1735	1736	1746					
1.4	QPSK	6	0	1743	1745	1752	18.5				
1.4	16QAM	1	0	1767	1774	1782					
1.4	16QAM	1	2	1776	1778	1784					
1.4	16QAM	1	5	1768	1765	1775	18.5				
1.4	16QAM	3	0	1752	1750	1754					
1.4	16QAM	3	1	1753	1751	1757	18.5				
1.4	16QAM	3	3	1745	1746	1753					
1.4	16QAM	6	0	1766	1766	1772					
1.4	16QAM	1	3	1767	1761	1767	18.5				
1.4	16QAM	1	5	1755	1756	1762					
1.4	64QAM	3	0	1762	1761	1769					
1.4	64QAM	3	1	1763	1765	1773	18.5				
1.4	64QAM	3	3	1756	1756	1763					
1.4	64QAM	6	0	1765	1768	1775					

Band 2_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Middle Ch / Freq. 18900	Power High Ch / Freq. 19100	Tune-up limit (dBm)			
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.02	17.03	18.5			
20	QPSK	1	49	16.97	17.01				
20	QPSK	1	99	16.96	16.93				
20	QPSK	50	0	16.99	17.01				
20	QPSK	50	24	17.13	17.09	18.5			
20	QPSK	50	50	17.05	17.05				
20	QPSK	100	0	17.05	17.05				
20	16QAM	1	0	17.35	17.38	18.5			
20	16QAM	1	49	17.37	17.41				
20	16QAM	1	99	17.34	17.34				
20	16QAM	50	0	17.00	17.02				
20	16QAM	50	24	17.16	17.11	18.5			
20	16QAM	50	50	17.12	17.13				
20	16QAM	100	0	17.09	17.03				
20	64QAM	1	0	17.28	17.31	18.5			
20	64QAM	1	49	17.23	17.28				
20	64QAM	1	99	17.21	17.19				
20	64QAM	50	0	17.03	17.06				
20	64QAM	50	24	17.18	17.12	18.5			
20	64QAM	50	50	17.15	17.16				
20	64QAM	100	0	17.13	17.07				
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.01	17.06	18.5			
15	QPSK	1	37	16.98	16.97				
15	QPSK	1	74	17.01	16.97				
15	QPSK	36	0	17.00	17.04				
15	QPSK	36	20	17.12	17.18	18.5			
15	QPSK	36	39	17.11	17.12				
15	QPSK	75	0	17.11	17.04				
15	16QAM	1	0	17.37	17.40	18.5			
15	16QAM	1	37	17.36	17.40				
15	16QAM	1	74	17.34	17.32				
15	16QAM	36	0	17.03	17.04				
15	16QAM	36	20	17.14	17.18	18.5			
15	16QAM	36	39	17.14	17.14				
15	16QAM	75	0	17.12	17.06				
15	64QAM	1	0	17.25	17.30	18.5			
15	64QAM	1	37	17.23	17.28				
15	64QAM	1	74	17.23	17.22				
15	64QAM	36	0	17.04	17.09				
15	64QAM	36	20	17.19	17.23	18.5			
15	64QAM	36	39	17.17	17.18				
15	64QAM	75	0	17.13	17.07				
Channel									
Frequency (MHz)									
10	QPSK	1	0	16.53	16.92	18.5			
10	QPSK	1	25	16.86	16.88				
10	QPSK	1	49	16.60	16.84				
10	QPSK	25	0	16.83	16.83				
10	QPSK	25	12	16.98	16.93	18.5			
10	QPSK	25	25	16.88	16.88				
10	QPSK	50	0	16.91	16.85				
10	16QAM	1	0	16.91	17.30	18.5			
10	16QAM	1	25	17.25	17.25				
10	16QAM	1	49	16.96	17.22				
10	16QAM	25	0	16.83	16.87				
10	16QAM	25	12	17.02	16.95	18.5			
10	16QAM	25	25	16.90	16.90				
10	16QAM	50	0	16.93	16.93				
10	64QAM	1	0	16.80	17.17	18.5			
10	64QAM	1	25	17.18	17.20				
10	64QAM	1	49	16.89	17.15				
10	64QAM	25	0	16.89	16.90				
10	64QAM	25	12	17.06	17.00	18.5			
10	64QAM	25	25	16.93	16.92				
10	64QAM	50	0	16.96	16.91				
Channel									
Frequency (MHz)									
5	QPSK	1	0	16.58	16.89	18.5			
5	QPSK	1	12	16.81	16.94				
5	QPSK	1	24	16.51	16.77				
5	QPSK	12	0	16.74	16.80				
5	QPSK	12	7	17.02	16.88	18.5			
5	QPSK	12	13	16.83	16.78				
5	QPSK	25	0	16.83	16.91				
5	16QAM	1	0	16.84	17.39	18.5			
5	16QAM	1	12	17.26	17.16				
5	16QAM	1	24	16.89	17.15				
5	16QAM	12	0	16.90	16.92				
5	16QAM	12	7	16.97	16.91	18.5			
5	16QAM	12	13	16.99	16.81				
5	16QAM	25	0	16.90	16.84				
5	64QAM	1	0	16.90	17.10	18.5			
5	64QAM	1	12	17.10	17.30				
5	64QAM	1	24	16.79	17.08				
5	64QAM	12	0	16.88	17.00				
5	64QAM	12	7	17.16	16.99	18.5			
5	64QAM	12	13	16.94	16.82				
5	64QAM	25	0	16.92	16.98				
Channel									
Frequency (MHz)									
3	QPSK	1	0	16.57	16.85	18.5			
3	QPSK	1	8	16.90	16.89				
3	QPSK	1	14	16.51	16.76				
3	QPSK	8	0	16.73	16.92				
3	QPSK	8	4	16.90	17.02	18.5			
3	QPSK	8	7	16.93	16.94				
3	QPSK	15	0	16.97	16.84				
3	16QAM	1	0	16.83	17.38	18.5			
3	16QAM	1	8	17.23	17.25				
3	16QAM	1	14	16.89	17.32				
3	16QAM	8	0	16.84	16.77				
3	16QAM	8	4	16.92	16.86	18.5			
3	16QAM	8	7	16.97	16.95				
3	16QAM	15	0	16.98	16.94				
3	64QAM	1	0	16.72	17.14	18.5			
3	64QAM	1	8	17.12	17.15				
3	64QAM	1	14	16.99	17.20				
3	64QAM	8	0	16.81	16.86				
3	64QAM	8	4	17.02	16.96	18.5			
3	64QAM	8	7	16.96	16.96				
3	64QAM	15	0	17.05	16.94				
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	16.84	16.80	18.5			
1.4	QPSK	1	3	16.89	16.87				
1.4	QPSK	1	5	16.79	16.74				
1.4	QPSK	3	0	16.84	16.83				
1.4	QPSK	3	1	16.86	16.84	18.5			
1.4	QPSK	3	3	16.81	16.77				
1.4	QPSK	6	0	16.89	16.87				
1.4	16QAM	1	0	17.19	17.13	18.5			
1.4	16QAM	1	3	17.23	17.20				
1.4	16QAM	1	5	17.12	17.09				
1.4	16QAM	3	0	16.96	16.91				
1.4	16QAM	3	1	16.97	16.94	18.5			
1.4	16QAM	3	3	16.90	16.87				
1.4	16QAM	6	0	17.02	16.98				
1.4	64QAM	1	0	17.12	17.05	18.5			
1.4	64QAM	1	3	17.13	17.09				
1.4	64QAM	1	5	17.03	16.98				
1.4	64QAM	3	0	17.06	17.05				
1.4	64QAM	3	1	17.11	17.10	18.5			
1.4	64QAM	3	2	17.06	17.03				
1.4	64QAM	6	0	16.94	16.93	18.5			

Band 4_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							20000	20175	20300		
Frequency (MHz)							1720	1732.5	1745		
20	QPSK	1	0	17.38	17.39	17.38	19				
20	QPSK	1	49	17.56	17.57	17.55					
20	QPSK	1	99	17.26	17.27	17.26					
20	QPSK	50	0	17.61	17.59	17.59					
20	QPSK	50	24	17.75	17.67	17.66	19				
20	QPSK	50	50	17.64	17.63	17.63					
20	QPSK	100	0	17.65	17.56	17.56					
20	16QAM	1	0	17.71	17.69	17.69					
20	16QAM	1	49	17.51	17.57	17.51	19				
20	16QAM	1	99	17.68	17.63	17.61					
20	16QAM	50	0	17.59	17.60	17.60					
20	16QAM	50	24	17.75	17.66	17.65					
20	16QAM	50	50	17.62	17.62	17.62	19				
20	16QAM	100	0	17.64	17.53	17.54					
20	64QAM	1	0	17.59	17.57	17.55					
20	64QAM	1	49	17.73	17.84	17.78	19				
20	64QAM	1	99	17.54	17.49	17.54					
20	64QAM	50	0	17.63	17.62	17.61					
20	64QAM	50	24	17.76	17.68	17.66					
20	64QAM	50	50	17.65	17.65	17.65	19				
20	64QAM	100	0	17.67	17.58	17.57					
Channel							20025			20175	20305
Frequency (MHz)							1717.5			1732.5	1747.5
15	QPSK	1	0	17.45	17.46	17.45	19				
15	QPSK	1	37	17.55	17.58	17.55					
15	QPSK	1	74	17.42	17.45	17.44					
15	QPSK	36	0	17.62	17.63	17.61					
15	QPSK	36	20	17.74	17.65	17.74	19				
15	QPSK	36	39	17.66	17.66	17.66					
15	QPSK	75	0	17.66	17.60	17.65					
15	16QAM	1	0	17.77	17.76	17.77					
15	16QAM	1	37	17.56	17.52	17.52	19				
15	16QAM	1	74	17.81	17.76	17.75					
15	16QAM	36	0	17.60	17.61	17.58					
15	16QAM	36	20	17.72	17.64	17.72					
15	16QAM	36	39	17.66	17.65	17.64	19				
15	16QAM	75	0	17.69	17.59	17.67					
15	64QAM	1	0	17.66	17.67	17.67					
15	64QAM	1	37	17.82	17.82	17.83	19				
15	64QAM	1	74	17.67	17.67	17.65					
15	64QAM	36	0	17.63	17.65	17.65					
15	64QAM	36	20	17.77	17.68	17.74					
15	64QAM	36	39	17.72	17.69	17.71	19				
15	64QAM	75	0	17.69	17.60	17.69					
Channel							20000			20175	20350
Frequency (MHz)							1715			1732.5	1750
10	QPSK	1	0	17.14	17.15	17.18	19				
10	QPSK	1	25	17.42	17.43	17.41					
10	QPSK	1	49	17.11	17.05	17.08					
10	QPSK	25	0	17.43	17.40	17.43					
10	QPSK	25	12	17.57	17.48	17.47	19				
10	QPSK	25	25	17.43	17.43	17.42					
10	QPSK	50	0	17.50	17.39	17.38					
10	16QAM	1	0	17.53	17.55	17.53					
10	16QAM	1	25	17.81	17.83	17.80	19				
10	16QAM	1	49	17.48	17.46	17.48					
10	16QAM	25	0	17.44	17.47	17.43					
10	16QAM	25	12	17.57	17.51	17.49					
10	16QAM	25	25	17.43	17.44	17.46	19				
10	16QAM	50	0	17.47	17.42	17.40					
10	64QAM	1	0	17.39	17.37	17.36					
10	64QAM	1	25	17.73	17.73	17.71					
10	64QAM	1	49	17.36	17.39	17.37	19				
10	64QAM	25	0	17.42	17.42	17.44					
10	64QAM	25	12	17.59	17.51	17.50					
10	64QAM	25	25	17.46	17.43	17.44					
10	64QAM	50	0	17.50	17.41	17.38	19				
Channel							19975			20175	20375
Frequency (MHz)							1712.5			1732.5	1752.5
5	QPSK	1	0	17.15	17.25	17.21	19				
5	QPSK	1	12	17.46	17.37	17.49					
5	QPSK	1	24	17.21	17.06	17.04					
5	QPSK	12	0	17.52	17.33	17.33					
5	QPSK	12	7	17.67	17.45	17.46	19				
5	QPSK	12	13	17.41	17.39	17.40					
5	QPSK	25	0	17.47	17.42	17.30					
5	16QAM	1	0	17.45	17.46	17.57					
5	16QAM	1	12	17.60	17.57	17.81	19				
5	16QAM	1	24	17.58	17.41	17.49					
5	16QAM	12	0	17.38	17.52	17.34					
5	16QAM	12	7	17.66	17.58	17.58					
5	16QAM	12	13	17.41	17.53	17.42	19				
5	16QAM	25	0	17.54	17.32	17.43					
5	64QAM	1	0	17.48	17.46	17.30					
5	64QAM	1	12	17.63	17.77	17.70					
5	64QAM	1	24	17.28	17.48	17.47	19				
5	64QAM	12	0	17.45	17.47	17.45					
5	64QAM	12	7	17.66	17.48	17.43					
5	64QAM	12	13	17.42	17.33	17.40					
5	64QAM	25	0	17.57	17.38	17.42	19				
Channel							19965			20175	20385
Frequency (MHz)							1711.5			1732.5	1753.5
3	QPSK	1	0	17.24	17.06	17.21	19				
3	QPSK	1	8	17.45	17.40	17.37					
3	QPSK	1	14	17.16	17.06	17.07					
3	QPSK	8	0	17.47	17.35	17.45					
3	QPSK	8	4	17.57	17.52	17.52	19				
3	QPSK	8	7	17.44	17.35	17.42					
3	QPSK	15	0	17.40	17.45	17.43					
3	16QAM	1	0	17.62	17.53	17.44					
3	16QAM	1	8	17.77	17.50	17.83	19				
3	16QAM	1	14	17.43	17.53	17.41					
3	16QAM	8	0	17.54	17.48	17.38					
3	16QAM	8	4	17.62	17.54	17.59					
3	16QAM	8	7	17.36	17.36	17.47	19				
3	16QAM	15	0	17.51	17.49	17.37					
3	64QAM	1	0	17.40	17.39	17.26					
3	64QAM	1	8	17.82	17.77	17.76					
3	64QAM	1	14	17.42	17.37	17.41	19				
3	64QAM	8	0	17.33	17.37	17.50					
3	64QAM	8	4	17.65	17.61	17.44					
3	64QAM	8	7	17.53	17.52	17.48					
3	64QAM	15	0	17.45	17.50	17.41	19				
Channel							19957			20175	20393
Frequency (MHz)							1710.7			1732.5	1754.3
1.4	QPSK	1	0	17.32	17.38	17.35	19				
1.4	QPSK	1	3	17.42	17.42	17.42					
1.4	QPSK	1	5	17.36	17.35	17.35					
1.4	QPSK	3	0	17.44	17.41	17.32					
1.4	QPSK	3	1	17.50	17.46	17.31	19				
1.4	QPSK	3	3	17.43	17.37	17.36					
1.4	QPSK	6	0	17.45	17.48	17.39					
1.4	16QAM	1	0	17.66	17.75	17.68					
1.4	16QAM	1	2	17.77	17.81	17.86	19				
1.4	16QAM	1	3	17.61	17.61	17.80					
1.4	16QAM	3	0	17.67	17.68	17.71					
1.4	16QAM	3	1	17.52	17.56	17.46					
1.4	16QAM	3	3	17.44	17.45	17.45	19				
1.4	16QAM	6	0	17.54	17.62	17.51					
1.4	16QAM	3	2	17.64	17.54	17.53					
1.4	16QAM	3	3	17.69	17.65	17.63					
1.4	16QAM	3	5	17.58	17.57	17.54	19				
1.4	16QAM	3	1	17.65	17.63	17.57					
1.4	16QAM	3	3	17.57	17.59	17.56					
1.4	16QAM	3	4	17.46	17.46	17.46					

Band 5_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq. 20450	Power Middle Ch. / Freq. 20525	Power High Ch. / Freq. 20600	Tune-up limit (dBm)		
Channel				Frequency (MHz)					
10	QPSK	1	0	21.99	21.99	22.03	23.5		
10	QPSK	1	25	21.94	21.96	21.96			
10	QPSK	1	49	21.97	21.93	21.91			
10	QPSK	25	0	22.03	22.02	22.03			
10	QPSK	25	12	22.11	22.09	22.05	23.5		
10	QPSK	25	25	22.07	22.06	22.05			
10	QPSK	50	0	22.02	22.01	21.95			
10	16QAM	1	0	22.36	22.37	22.36			
10	16QAM	1	25	22.35	22.36	22.33	23.5		
10	16QAM	1	49	22.33	22.30	22.31			
10	16QAM	25	0	22.00	22.04	22.04			
10	16QAM	25	12	22.12	22.14	22.05			
10	16QAM	25	25	22.05	22.09	22.07	23		
10	16QAM	50	0	22.02	22.04	21.96			
10	64QAM	1	0	22.18	22.20	22.23			
10	64QAM	1	25	22.23	22.25	22.26			
10	64QAM	1	49	22.24	22.21	22.18	23		
10	64QAM	25	0	21.09	21.07	21.10			
10	64QAM	25	12	21.18	21.16	21.12			
10	64QAM	25	25	21.10	21.11	21.11			
10	64QAM	50	0	21.07	21.06	21.01	22		
Channel				20425	20525	20625			
Channel				Frequency (MHz)			Tune-up limit (dBm)		
5	QPSK	1	0	21.87	21.90	21.85	23.5		
5	QPSK	1	12	22.00	22.02	22.00			
5	QPSK	1	24	21.96	21.96	21.91			
5	QPSK	12	0	22.00	22.02	22.00			
5	QPSK	12	7	22.10	22.10	22.10	23.5		
5	QPSK	12	13	22.07	22.08	22.04			
5	QPSK	25	0	22.07	22.06	22.06			
5	16QAM	1	0	22.22	22.23	22.21			
5	16QAM	1	12	22.32	22.31	22.25	23.5		
5	16QAM	1	24	22.29	22.28	22.25			
5	16QAM	12	0	22.03	22.02	22.05			
5	16QAM	12	7	22.12	22.14	22.13			
5	16QAM	12	13	22.10	22.10	22.07	23		
5	16QAM	25	0	22.12	22.11	22.07			
5	64QAM	1	0	22.14	22.12	22.12			
5	64QAM	1	12	22.19	22.22	22.17			
5	64QAM	1	24	22.14	22.20	22.12	23		
5	64QAM	12	0	21.09	21.10	21.09			
5	64QAM	12	7	21.20	21.19	21.19			
5	64QAM	12	13	21.17	21.18	21.13			
5	64QAM	25	0	21.11	21.10	21.09	22		
Channel				20415	20525	20635			
Channel				Frequency (MHz)			Tune-up limit (dBm)		
3	QPSK	1	0	21.88	21.92	21.89	23.5		
3	QPSK	1	8	22.04	22.05	22.01			
3	QPSK	1	14	21.99	21.97	21.92			
3	QPSK	8	0	22.00	22.00	22.02			
3	QPSK	8	4	22.10	22.09	22.11	23.5		
3	QPSK	8	7	22.07	22.09	22.06			
3	QPSK	15	0	22.07	22.07	22.00			
3	16QAM	1	0	22.20	22.30	22.28			
3	16QAM	1	8	22.30	22.34	22.32	23.5		
3	16QAM	1	14	22.33	22.36	22.27			
3	16QAM	8	0	22.08	22.08	22.06			
3	16QAM	8	4	22.18	22.18	22.16			
3	16QAM	8	7	22.15	22.14	22.10	23		
3	16QAM	15	0	22.12	22.14	22.03			
3	64QAM	1	0	22.09	22.12	22.12			
3	64QAM	1	8	22.24	22.27	22.25			
3	64QAM	1	14	22.16	22.23	22.16	23		
3	64QAM	8	0	21.10	21.10	21.09			
3	64QAM	8	4	21.17	21.17	21.16			
3	64QAM	8	7	21.15	21.17	21.15			
3	64QAM	15	0	21.12	21.11	21.04	22		
Channel				20407	20525	20643			
Channel				Frequency (MHz)			Tune-up limit (dBm)		
1.4	QPSK	1	0	21.87	21.94	21.89	23.5		
1.4	QPSK	1	3	21.98	21.98	21.97			
1.4	QPSK	1	5	21.99	21.98	21.85			
1.4	QPSK	3	0	21.90	21.94	21.89			
1.4	QPSK	3	1	21.93	21.96	21.94	23.5		
1.4	QPSK	3	3	21.94	21.94	21.89			
1.4	QPSK	6	0	22.01	22.01	21.98			
1.4	16QAM	1	0	22.17	22.27	22.19			
1.4	16QAM	1	3	22.32	22.31	22.30	23.5		
1.4	16QAM	1	5	22.24	22.25	22.18			
1.4	16QAM	3	0	22.03	22.01	21.98			
1.4	16QAM	3	1	22.07	22.08	22.00			
1.4	16QAM	3	3	22.04	22.01	21.94	23		
1.4	16QAM	6	0	22.12	22.10	22.06			
1.4	64QAM	1	0	22.07	22.16	22.14			
1.4	64QAM	1	3	22.18	22.22	22.17			
1.4	64QAM	1	5	22.13	22.13	22.08	23		
1.4	64QAM	3	0	22.12	22.12	22.11			
1.4	64QAM	3	1	22.18	22.17	22.16			
1.4	64QAM	3	3	22.12	22.13	22.10			
1.4	64QAM	6	0	21.03	21.02	21.00	22		

Band 7_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				20850	21100	21350					
Frequency (MHz)				2510	2535	2560					
20	QPSK	1	0	15.60	15.60	15.66	17				
20	QPSK	1	49	15.61	15.65	15.74					
20	QPSK	1	99	15.70	15.71	15.74					
20	QPSK	50	0	15.69	15.78	15.80	17				
20	QPSK	50	24	15.78	15.78	15.84					
20	QPSK	50	50	15.81	15.83	15.88					
20	QPSK	100	0	15.74	15.68	15.73	17				
20	16QAM	1	0	15.97	15.94	16.07					
20	16QAM	1	49	15.97	16.05	16.10					
20	16QAM	1	99	16.05	16.08	16.09	17				
20	16QAM	50	0	15.74	15.76	15.83					
20	16QAM	50	24	15.83	15.82	15.86					
20	16QAM	50	50	15.87	15.87	15.90	17				
20	16QAM	100	0	15.71	15.66	15.74					
20	64QAM	1	0	15.80	15.79	15.88					
20	64QAM	1	49	15.89	15.95	15.97	17				
20	64QAM	1	99	15.95	15.98	16.02					
20	64QAM	50	0	15.79	15.82	15.86					
20	64QAM	50	24	15.87	15.87	15.89	17				
20	64QAM	50	50	15.86	15.93	15.94					
20	64QAM	100	0	15.74	15.71	15.80					
Channel				20825	21100	21375	Tune-up limit (dBm)				
Frequency (MHz)				2507.5	2535	2562.5					
15	QPSK	1	0	15.64	15.64	15.74	17				
15	QPSK	1	37	15.64	15.63	15.74					
15	QPSK	1	74	15.71	15.75	15.79					
15	QPSK	36	0	15.74	15.73	15.80	17				
15	QPSK	36	20	15.80	15.75	15.88					
15	QPSK	36	39	15.82	15.85	15.90					
15	QPSK	75	0	15.73	15.69	15.75	17				
15	16QAM	1	0	15.97	15.96	16.01					
15	16QAM	1	37	15.96	16.04	16.06					
15	16QAM	1	74	16.04	16.08	16.09	17				
15	16QAM	36	0	15.76	15.75	15.81					
15	16QAM	36	20	15.84	15.80	15.90					
15	16QAM	36	39	15.84	15.86	15.90	17				
15	16QAM	75	0	15.76	15.74	15.76					
15	64QAM	1	0	15.81	15.80	15.92					
15	64QAM	1	37	15.88	15.94	15.99	17				
15	64QAM	1	74	15.94	15.98	16.03					
15	64QAM	36	0	15.75	15.79	15.85					
15	64QAM	36	20	15.89	15.84	15.94	17				
15	64QAM	36	39	15.90	15.92	15.95					
15	64QAM	75	0	15.78	15.74	15.80					
Channel				20800	21100	21400	Tune-up limit (dBm)				
Frequency (MHz)				2505	2535	2565					
10	QPSK	1	0	15.41	15.46	15.47	17				
10	QPSK	1	25	15.41	15.53	15.52					
10	QPSK	1	49	15.46	15.54	15.56					
10	QPSK	25	0	15.45	15.55	15.58	17				
10	QPSK	25	12	15.57	15.56	15.68					
10	QPSK	25	25	15.56	15.65	15.65					
10	QPSK	50	0	15.49	15.50	15.59	17				
10	16QAM	1	0	15.82	15.85	15.90					
10	16QAM	1	25	15.83	15.94	15.92					
10	16QAM	1	49	15.85	15.95	15.96	17				
10	16QAM	25	0	15.49	15.57	15.61					
10	16QAM	25	12	15.58	15.59	15.67					
10	16QAM	25	25	15.62	15.68	15.68	17				
10	16QAM	50	0	15.49	15.47	15.57					
10	64QAM	1	0	15.65	15.70	15.72					
10	64QAM	1	25	15.72	15.80	15.83	17				
10	64QAM	1	49	15.75	15.82	15.85					
10	64QAM	25	0	15.54	15.59	15.63					
10	64QAM	25	12	15.59	15.64	15.71	17				
10	64QAM	25	25	15.64	15.70	15.70					
10	64QAM	50	0	15.53	15.51	15.60					
Channel				20775	21100	21425	Tune-up limit (dBm)				
Frequency (MHz)				2502.5	2535	2567.5					
5	QPSK	1	0	15.32	15.36	15.53	17				
5	QPSK	1	12	15.40	15.51	15.48					
5	QPSK	1	24	15.56	15.61	15.62					
5	QPSK	12	0	15.37	15.48	15.50	17				
5	QPSK	12	7	15.50	15.58	15.61					
5	QPSK	12	13	15.64	15.61	15.62					
5	QPSK	25	0	15.54	15.54	15.61	17				
5	16QAM	1	0	15.90	15.79	15.85					
5	16QAM	1	12	15.90	15.89	15.94					
5	16QAM	1	24	15.90	16.04	15.87	17				
5	16QAM	12	0	15.42	15.67	15.70					
5	16QAM	12	7	15.64	15.59	15.74					
5	16QAM	12	13	15.62	15.77	15.75	17				
5	16QAM	25	0	15.42	15.44	15.67					
5	64QAM	1	0	15.55	15.67	15.82					
5	64QAM	1	12	15.80	15.77	15.90	17				
5	64QAM	1	24	15.67	15.83	15.79					
5	64QAM	12	0	15.62	15.58	15.72					
5	64QAM	12	7	15.55	15.70	15.79	17				
5	64QAM	12	13	15.61	15.62	15.68					
5	64QAM	25	0	15.51	15.53	15.58					

Band 25_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				20140	20340	20590					
Frequency (MHz)				1860	1880	1905					
20	QPSK	1	0	17.29	17.21	17.25	18.5				
20	QPSK	1	49	17.15	17.13	17.19					
20	QPSK	1	99	17.10	17.14	17.10					
20	QPSK	50	0	17.32	17.26	17.28	18.5				
20	QPSK	50	24	17.35	17.29	17.27					
20	QPSK	50	50	17.29	17.26	17.29					
20	16QAM	1	0	17.64	17.53	17.60	18.5				
20	16QAM	1	49	17.54	17.53	17.54					
20	16QAM	1	99	17.41	17.47	17.43					
20	16QAM	50	0	17.38	17.22	17.26	18.5				
20	16QAM	50	24	17.27	17.29	17.29					
20	16QAM	50	50	17.27	17.26	17.28					
20	16QAM	100	0	17.17	17.18	17.25	18.5				
20	64QAM	1	0	17.51	17.37	17.44					
20	64QAM	1	49	17.37	17.37	17.43					
20	64QAM	1	99	17.34	17.38	17.34	18.5				
20	64QAM	50	0	17.32	17.28	17.28					
20	64QAM	50	24	17.32	17.29	17.29					
20	64QAM	50	50	17.24	17.31	17.28	18.5				
20	64QAM	100	0	17.20	17.21	17.29					
Channel				26115	26340	26615		Tune-up limit (dBm)			
Frequency (MHz)				1857.5	1880	1907.5					
15	QPSK	1	0	17.05	17.20	17.22	18.5				
15	QPSK	1	37	17.16	17.14	17.15					
15	QPSK	1	74	17.02	17.14	17.12					
15	QPSK	36	0	17.26	17.12	17.15	18.5				
15	QPSK	36	20	17.29	17.29	17.32					
15	QPSK	36	39	17.24	17.24	17.25					
15	QPSK	75	0	17.24	17.21	17.23	18.5				
15	16QAM	1	0	17.31	17.53	17.58					
15	16QAM	1	37	17.46	17.51	17.54					
15	16QAM	1	74	17.31	17.49	17.45	18.5				
15	16QAM	36	0	17.24	17.12	17.15					
15	16QAM	36	20	17.26	17.29	17.31					
15	16QAM	36	39	17.21	17.25	17.24	18.5				
15	16QAM	75	0	17.22	17.21	17.25					
15	64QAM	1	0	17.28	17.38	17.41					
15	64QAM	1	37	17.40	17.40	17.44	18.5				
15	64QAM	1	74	17.25	17.36	17.34					
15	64QAM	36	0	17.29	17.14	17.19					
15	64QAM	36	20	17.33	17.30	17.35	18.5				
15	64QAM	36	39	17.25	17.28	17.28					
15	64QAM	75	0	17.25	17.24	17.24					
Channel				26090	26340	26640	Tune-up limit (dBm)				
Frequency (MHz)				1855	1880	1910					
10	QPSK	1	0	16.74	16.66	16.93	18.5				
10	QPSK	1	25	16.92	16.89	16.86					
10	QPSK	1	49	16.93	16.97	16.87					
10	QPSK	25	0	16.98	16.86	16.88	18.5				
10	QPSK	25	12	17.08	17.03	17.05					
10	QPSK	25	25	16.99	16.98	16.98					
10	QPSK	50	0	17.01	16.98	16.98	18.5				
10	16QAM	1	0	17.11	17.00	17.28					
10	16QAM	1	25	17.27	17.25	17.26					
10	16QAM	1	49	16.99	16.98	17.22	18.5				
10	16QAM	25	0	17.00	16.87	16.88					
10	16QAM	25	12	17.07	17.03	17.04					
10	16QAM	25	25	16.97	16.99	16.97	18.5				
10	16QAM	50	0	16.99	16.96	16.98					
10	64QAM	1	0	17.01	16.91	17.14					
10	64QAM	1	25	17.19	17.19	17.19	18.5				
10	64QAM	1	49	16.91	16.91	17.13					
10	64QAM	25	0	17.02	16.91	16.90					
10	64QAM	25	12	17.08	17.09	17.08	18.5				
10	64QAM	25	25	17.00	16.98	17.02					
10	64QAM	50	0	17.04	17.01	17.01					
Channel				26095	26340	26675	Tune-up limit (dBm)				
Frequency (MHz)				1852.5	1880	1912.5					
5	QPSK	1	0	16.72	16.74	16.96	18.5				
5	QPSK	1	12	16.89	16.97	16.80					
5	QPSK	1	24	16.95	16.99	16.78					
5	QPSK	12	0	16.93	16.88	16.98	18.5				
5	QPSK	12	7	17.18	17.08	16.97					
5	QPSK	12	13	16.91	16.99	16.93					
5	QPSK	25	0	16.95	16.97	16.99	18.5				
5	16QAM	1	0	17.11	17.00	17.38					
5	16QAM	1	12	17.24	17.33	17.19					
5	16QAM	1	24	17.05	16.95	17.13	18.5				
5	16QAM	12	0	16.94	16.77	16.84					
5	16QAM	12	7	17.00	16.95	17.02					
5	16QAM	12	13	17.05	17.02	16.87	18.5				
5	16QAM	25	0	17.04	16.99	16.98					
5	64QAM	1	0	16.92	16.91	17.10					
5	64QAM	1	12	17.22	17.14	17.11	18.5				
5	64QAM	1	24	17.00	16.95	17.09					
5	64QAM	12	0	16.95	16.81	16.84					
5	64QAM	12	7	17.17	17.05	17.12	18.5				
5	64QAM	12	13	17.00	17.02	17.06					
5	64QAM	25	0	16.97	17.01	17.02					
Channel				26055	26340	26615	Tune-up limit (dBm)				
Frequency (MHz)				1851.5	1880	1913.5					
3	QPSK	1	0	16.88	16.88	16.97	18.5				
3	QPSK	1	3	16.96	16.90	16.90					
3	QPSK	1	5	16.90	16.83	16.83					
3	QPSK	3	0	16.85	16.73	16.82	18.5				
3	QPSK	3	8	17.04	16.77	16.79					
3	QPSK	3	11	16.91	16.81	16.81					
3	QPSK	8	0	17.18	17.11	17.05	18.5				
3	QPSK	8	7	17.00	16.97	16.94					
3	QPSK	8	10	16.94	16.90	17.01					
3	16QAM	1	0	17.13	17.08	17.23	18.5				
3	16QAM	1	8	17.29	17.23	17.18					
3	16QAM	1	14	17.08	17.07	17.29					
3	16QAM	8	0	16.93	16.93	17.09	18.5				
3	16QAM	8	4	17.02	17.07	17.07					
3	16QAM	8	7	16.96	16.96	17.06					
3	16QAM	15	0	16.99	16.88	17.00	18.5				
3	64QAM	1	0	17.10	16.93	17.20					
3	64QAM	1	8	17.17	17.13	17.11					
3	64QAM	1	14	16.94	16.93	17.12	18.5				
3	64QAM	8	0	17.09	17.10	16.93					
3	64QAM	8	7	17.17	17.19	17.06					
3	64QAM	8	10	17.09	17.09	17.09	18.5				
3	64QAM	7	0	16.91	17.02	17.09					
3	64QAM	15	0	17.06	17.11	17.10					
Channel				26047	26340	26683	Tune-up limit (dBm)				
Frequency (MHz)				1850.7	1880	1914.3					
1.4	QPSK	1	0	16.88	16.82	16.77	18.5				
1.4	QPSK	1	3	16.96	16.89	16.92					
1.4	QPSK	1	5	16.90	16.83	16.83					
1.4	QPSK	3	0	16.91	16.85	16.74	18.5				
1.4	QPSK	3	1	16.92	16.89	16.77					
1.4	QPSK	3	3	16.90	16.86	16.83					
1.4	QPSK	6	0	16.99	16.92	16.86	18.5				
1.4	16QAM	1	0	17.20	17.13	17.06					
1.4	16QAM	1	2	17.27	17.21	17.24					
1.4	16QAM	1	5	17.18	17.13	17.18	18.5				
1.4	16QAM	3	0	16.98	16.89	16.83					
1.4	16QAM	3	1	17.01	16.94	16.88					
1.4	16QAM	3	3	16.97	16.89	16.89	18.5				
1.4	16QAM	6	0	17.07	17.00	16.96					
1.4	64QAM	1	0	17.16	17.09	17.02					
1.4	64QAM	1	3	17.20	17.13	17.09	18.5				
1.4	64QAM	1	5	17.17	17.06	17.05					
1.4	64QAM	3	1	17.14	17.04	16.97					
1.4	64QAM	3	1	17.16	17.09	17.02	18.5				
1.4	64QAM	3	3	17.14	17.05	17.05					
1.4	64QAM	6	0	17.01	16.91	16.94					

Band 26_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				26765	26865	26965			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	0	22.19	22.16	22.17	23.5		
15	QPSK	1	37	22.12	22.16	22.17			
15	QPSK	1	74	22.12	22.14	22.02			
15	QPSK	36	0	22.15	22.13	22.13			
15	QPSK	36	20	22.25	22.20	22.24			
15	QPSK	36	39	22.17	22.19	22.15	23		
15	QPSK	75	0	22.18	22.10	22.08			
15	16QAM	1	0	22.54	22.41	22.44			
15	16QAM	1	37	22.47	22.50	22.32			
15	16QAM	1	74	22.42	22.45	22.26			
15	16QAM	36	0	21.11	21.11	21.12	22		
15	16QAM	36	20	21.25	21.15	21.24			
15	16QAM	36	39	21.18	21.15	21.12			
15	16QAM	75	0	21.16	21.14	21.10			
15	64QAM	1	0	21.38	21.30	21.40			
15	64QAM	1	37	21.39	21.36	21.40	22		
15	64QAM	1	74	21.36	21.33	21.19			
15	64QAM	36	0	20.14	20.18	20.11			
15	64QAM	36	20	20.26	20.22	20.28			
15	64QAM	36	39	20.21	20.24	20.18			
15	64QAM	75	0	20.20	20.12	20.12	21		
Channel				26740	26865	26990			
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	22.04	22.12	22.08	23.5		
10	QPSK	1	25	21.95	22.03	22.01			
10	QPSK	1	49	21.94	22.10	21.86			
10	QPSK	25	0	21.96	21.97	21.95			
10	QPSK	25	12	22.10	22.07	22.10			
10	QPSK	25	25	22.01	22.14	22.04	23		
10	QPSK	50	0	21.99	22.04	21.99			
10	16QAM	1	0	22.42	22.48	22.36			
10	16QAM	1	25	22.41	22.38	22.34			
10	16QAM	1	49	22.28	22.33	22.29			
10	16QAM	25	0	20.92	20.99	20.86	22		
10	16QAM	25	12	21.10	21.09	21.11			
10	16QAM	25	25	21.03	21.10	21.07			
10	16QAM	50	0	21.03	21.02	20.98			
10	64QAM	1	0	21.35	21.32	21.28			
10	64QAM	1	25	21.29	21.35	21.31	22		
10	64QAM	1	49	21.19	21.24	21.09			
10	64QAM	25	0	20.00	20.00	20.04			
10	64QAM	25	12	20.14	20.16	20.12			
10	64QAM	25	25	19.99	20.11	20.10			
10	64QAM	50	0	20.09	20.03	20.01	21		
Channel				26715	26865	27015			
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	21.87	21.96	22.00	23.5		
5	QPSK	1	12	22.05	22.04	22.06			
5	QPSK	1	24	21.94	22.03	21.84			
5	QPSK	12	0	22.03	22.07	22.05			
5	QPSK	12	7	22.16	22.11	22.13			
5	QPSK	12	13	22.10	22.10	22.10	23		
5	QPSK	25	0	22.09	22.05	22.02			
5	16QAM	1	0	22.21	22.33	22.27			
5	16QAM	1	12	22.41	22.25	22.27			
5	16QAM	1	24	22.25	22.32	22.22			
5	16QAM	12	0	21.04	21.03	21.06	22		
5	16QAM	12	7	21.13	21.12	21.16			
5	16QAM	12	13	21.15	21.10	21.10			
5	16QAM	25	0	21.12	21.07	21.03			
5	64QAM	1	0	21.16	21.23	21.21			
5	64QAM	1	12	21.27	21.32	21.29	22		
5	64QAM	1	24	21.25	21.28	21.16			
5	64QAM	12	0	20.12	20.13	20.08			
5	64QAM	12	7	20.21	20.20	20.20			
5	64QAM	12	13	20.15	20.19	20.12			
5	64QAM	25	0	20.13	20.10	20.04	21		
Channel				26705	26865	27025			
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	21.92	21.99	22.03	23.5		
3	QPSK	1	8	22.10	22.12	22.04			
3	QPSK	1	14	21.94	22.08	21.85			
3	QPSK	8	0	22.03	22.06	22.08			
3	QPSK	8	4	22.12	22.14	22.12			
3	QPSK	8	7	22.11	22.11	22.06	23		
3	QPSK	15	0	22.11	22.05	22.08			
3	16QAM	1	0	22.25	22.25	22.31			
3	16QAM	1	8	22.31	22.36	22.27			
3	16QAM	1	14	22.39	22.35	22.21			
3	16QAM	8	0	21.09	21.08	21.11	22		
3	16QAM	8	4	21.15	21.17	21.15			
3	16QAM	8	7	21.17	21.12	21.10			
3	16QAM	15	0	21.09	21.08	21.06			
3	64QAM	1	0	21.11	21.15	21.19			
3	64QAM	1	8	21.30	21.34	21.22	22		
3	64QAM	1	14	21.21	21.21	21.10			
3	64QAM	8	0	20.08	20.08	20.14			
3	64QAM	8	4	20.19	20.20	20.17			
3	64QAM	8	7	20.15	20.17	20.12			
3	64QAM	15	0	20.13	20.08	20.07	21		
Channel				26697	26865	27033			
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	21.86	21.86	21.89	23.5		
1.4	QPSK	1	3	21.99	21.98	21.96			
1.4	QPSK	1	5	21.99	21.95	21.87			
1.4	QPSK	3	0	21.92	21.84	21.80			
1.4	QPSK	3	1	21.98	21.92	21.84			
1.4	QPSK	3	3	21.94	21.92	21.90	23		
1.4	QPSK	6	0	22.03	21.96	22.01			
1.4	16QAM	1	0	22.23	22.16	22.12			
1.4	16QAM	1	3	22.35	22.31	22.27			
1.4	16QAM	1	5	22.30	22.30	22.12			
1.4	16QAM	3	0	21.98	21.92	21.82	23		
1.4	16QAM	3	1	22.02	21.98	21.93			
1.4	16QAM	3	3	21.93	22.05	21.91			
1.4	16QAM	6	0	21.15	21.06	21.07			
1.4	64QAM	1	0	21.15	21.11	21.06			
1.4	64QAM	1	3	21.23	21.15	21.12	22		
1.4	64QAM	1	5	21.13	21.13	21.08			
1.4	64QAM	3	0	21.13	21.08	21.09			
1.4	64QAM	3	1	21.15	21.10	21.06			
1.4	64QAM	3	3	21.14	21.17	21.06			
1.4	64QAM	6	0	19.99	19.95	19.99	21		



Band 66_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 132072	Power High Ch. Freq. 132322	Power High Ch. Freq. 132572	Turn-up limit (dBm)		
Channel				132072	132322	132572			
Frequency (MHz)				1720	1745	1770			
20	QPSK	1	0	17.42	17.42	17.69	19		
20	QPSK	1	49	17.60	17.60	17.69			
20	QPSK	1	99	17.28	17.34	17.58			
20	QPSK	50	0	17.67	17.70	17.73			
20	QPSK	50	24	17.79	17.71	17.84	19		
20	QPSK	50	50	17.64	17.65	17.70			
20	QPSK	100	0	17.69	17.70	17.76			
20	16QAM	1	0	17.74	17.80	18.14			
20	16QAM	1	49	17.57	18.04	18.06	19		
20	16QAM	1	99	17.64	17.69	17.98			
20	16QAM	50	0	17.68	17.73	17.75			
20	16QAM	50	24	17.78	17.74	17.89			
20	16QAM	50	50	17.65	17.70	17.73	19		
20	16QAM	100	0	17.67	17.74	17.77			
20	64QAM	1	0	17.60	17.80	17.94			
20	64QAM	1	49	17.80	17.87	17.88			
20	64QAM	1	99	17.53	17.59	17.80	19		
20	64QAM	50	0	17.68	17.70	17.75			
20	64QAM	50	24	17.77	17.71	17.83			
20	64QAM	50	50	17.66	17.68	17.71			
20	64QAM	100	0	17.71	17.72	17.76	19		
Channel				132022	132322	132622		Turn-up limit (dBm)	
Frequency (MHz)				1717.5	1745	1772.5			
15	QPSK	1	0	17.56	17.56	17.73	19		
15	QPSK	1	37	17.58	17.59	17.66			
15	QPSK	1	74	17.41	17.46	17.59			
15	QPSK	36	0	17.69	17.71	17.76			
15	QPSK	36	20	17.74	17.77	17.75	19		
15	QPSK	36	39	17.67	17.68	17.74			
15	QPSK	75	0	17.71	17.71	17.70			
15	16QAM	1	0	17.85	17.95	18.13			
15	16QAM	1	37	18.00	18.03	18.05	19		
15	16QAM	1	74	17.76	17.81	17.97			
15	16QAM	36	0	17.68	17.74	17.78			
15	16QAM	36	20	17.73	17.79	17.75			
15	16QAM	36	39	17.64	17.71	17.75	19		
15	16QAM	75	0	17.71	17.71	17.74			
15	64QAM	1	0	17.75	17.72	17.92			
15	64QAM	1	37	17.85	17.85	17.93			
15	64QAM	1	74	17.65	17.67	17.83	19		
15	64QAM	36	0	17.73	17.72	17.79			
15	64QAM	36	20	17.76	17.78	17.76			
15	64QAM	36	39	17.69	17.72	17.77			
15	64QAM	75	0	17.73	17.76	17.71	19		
Channel				132022	132322	132622		Turn-up limit (dBm)	
Frequency (MHz)				1715	1745	1775			
10	QPSK	1	0	17.15	17.18	17.24	19		
10	QPSK	1	25	17.44	17.43	17.47			
10	QPSK	1	49	17.18	17.18	17.20			
10	QPSK	25	0	17.42	17.43	17.48			
10	QPSK	25	12	17.58	17.47	17.63	19		
10	QPSK	25	25	17.45	17.45	17.52			
10	QPSK	50	0	17.49	17.49	17.55			
10	16QAM	1	0	17.56	17.56	17.60			
10	16QAM	1	25	17.81	17.79	17.84	19		
10	16QAM	1	49	17.58	17.55	17.61			
10	16QAM	25	0	17.48	17.44	17.51			
10	16QAM	25	12	17.61	17.53	17.64			
10	16QAM	25	25	17.49	17.44	17.53	19		
10	16QAM	50	0	17.52	17.50	17.55			
10	64QAM	1	0	17.40	17.42	17.48			
10	64QAM	1	25	17.71	17.70	17.74			
10	64QAM	1	49	17.44	17.47	17.48	19		
10	64QAM	25	0	17.45	17.45	17.52			
10	64QAM	25	12	17.58	17.51	17.67			
10	64QAM	25	25	17.46	17.47	17.54			
10	64QAM	50	0	17.51	17.50	17.55	19		
Channel				131997 <th>132322</th> <th>132647</th> <th>Turn-up limit (dBm)</th>	132322	132647		Turn-up limit (dBm)	
Frequency (MHz)				1712.5 <th>1745<th>1777.5</th><th></th></th>	1745 <th>1777.5</th> <th></th>	1777.5			
5	QPSK	1	0	17.24	17.24	17.27	19		
5	QPSK	1	12	17.49	17.47	17.51			
5	QPSK	1	24	17.28	17.27	17.22			
5	QPSK	12	0	17.32	17.49	17.51			
5	QPSK	12	7	17.53	17.55	17.68	19		
5	QPSK	12	13	17.54	17.36	17.61			
5	QPSK	25	0	17.40	17.53	17.48			
5	16QAM	1	0	17.57	17.56	17.69			
5	16QAM	1	12	17.80	17.82	17.76	19		
5	16QAM	1	24	17.63	17.61	17.66			
5	16QAM	12	0	17.40	17.45	17.45			
5	16QAM	12	7	17.56	17.56	17.59			
5	16QAM	12	13	17.54	17.54	17.53	19		
5	16QAM	25	0	17.52	17.48	17.50			
5	64QAM	1	0	17.39	17.52	17.50			
5	64QAM	1	12	17.81	17.61	17.66			
5	64QAM	1	24	17.48	17.54	17.51	19		
5	64QAM	12	0	17.39	17.55	17.44			
5	64QAM	12	7	17.49	17.56	17.69			
5	64QAM	12	13	17.46	17.56	17.62			
5	64QAM	25	0	17.53	17.42	17.55	19		
Channel				131987 <th>132322</th> <th>132657</th> <th>Turn-up limit (dBm)</th>	132322	132657		Turn-up limit (dBm)	
Frequency (MHz)				1711.5 <th>1745<th>1778.5</th><th></th></th>	1745 <th>1778.5</th> <th></th>	1778.5			
3	QPSK	1	0	17.21	17.17	17.17	19		
3	QPSK	1	8	17.54	17.44	17.56			
3	QPSK	1	14	17.19	17.24	17.21			
3	QPSK	8	0	17.44	17.39	17.49			
3	QPSK	8	4	17.52	17.54	17.57	19		
3	QPSK	8	7	17.38	17.40	17.61			
3	QPSK	15	0	17.59	17.47	17.46			
3	16QAM	1	0	17.63	17.56	17.59			
3	16QAM	1	8	17.84	17.78	17.76	19		
3	16QAM	1	14	17.48	17.56	17.58			
3	16QAM	8	0	17.51	17.44	17.51			
3	16QAM	8	4	17.61	17.45	17.67			
3	16QAM	8	7	17.46	17.49	17.48	19		
3	16QAM	15	0	17.58	17.53	17.61			
3	64QAM	1	0	17.37	17.33	17.42			
3	64QAM	1	8	17.73	17.67	17.79			
3	64QAM	1	14	17.49	17.49	17.46	19		
3	64QAM	8	0	17.38	17.36	17.45			
3	64QAM	8	4	17.53	17.54	17.68			
3	64QAM	8	7	17.50	17.48	17.54			
3	64QAM	15	0	17.44	17.51	17.48	19		
Channel				131978 <th>132322</th> <th>132665</th> <th>Turn-up limit (dBm)</th>	132322	132665		Turn-up limit (dBm)	
Frequency (MHz)				1710.7 <th>1745</th> <th>1779.3</th> <th></th>	1745	1779.3			
1.4	QPSK	1	0	17.30	17.39	17.46	19		
1.4	QPSK	1	3	17.41	17.42	17.53			
1.4	QPSK	1	5	17.33	17.35	17.42			
1.4	QPSK	3	0	17.42	17.39	17.46			
1.4	QPSK	3	1	17.42	17.41	17.47	19		
1.4	QPSK	3	3	17.35	17.36	17.46			
1.4	QPSK	6	0	17.43	17.45	17.52			
1.4	16QAM	1	0	17.67	17.74	17.82			
1.4	16QAM	1	2	17.76	17.78	17.84	19		
1.4	16QAM	1	5	17.68	17.65	17.75			
1.4	16QAM	3	0	17.52	17.50	17.54			
1.4	16QAM	3	1	17.53	17.55	17.57			
1.4	16QAM	3	3	17.45	17.46	17.53	19		
1.4	16QAM	6	0	17.56	17.56	17.62			
1.4	16QAM	6	2	17.57	17.61	17.67			
1.4	64QAM	1	3	17.65	17.66	17.71			
1.4	64QAM	1	5	17.55	17.56	17.62	19		
1.4	64QAM	3	0	17.62	17.61	17.69			
1.4	64QAM	3	1	17.63	17.63	17.71			
1.4	64QAM	3	3	17.63	17.66	17.73			
1.4	64QAM	6	0	17.56	17.56	17.63	19		
1.4	64QAM	6	2	17.45	17.48	17.51			



Band 7_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20850	Power Middle Ch. Freq. 21100	Power High Ch. Freq. 21350	Tune-up limit (dBm)
Channel				2510	2535	2560	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.22	17.21	17.22	18.5
20	QPSK	1	49	17.25	17.24	17.27	
20	QPSK	1	99	17.31	17.31	17.29	
20	QPSK	50	0	17.33	17.42	17.35	18.5
20	QPSK	50	24	17.43	17.40	17.40	
20	QPSK	50	50	17.44	17.45	17.43	
20	QPSK	100	0	17.35	17.27	17.28	18.5
20	16QAM	1	0	17.58	17.54	17.57	
20	16QAM	1	49	17.61	17.57	17.59	
20	16QAM	1	99	17.62	17.66	17.62	18.5
20	16QAM	50	0	17.31	17.35	17.36	
20	16QAM	50	24	17.44	17.39	17.36	
20	16QAM	50	50	17.46	17.46	17.42	18.5
20	16QAM	100	0	17.34	17.26	17.23	
20	64QAM	1	0	17.44	17.38	17.41	
20	64QAM	1	49	17.51	17.49	17.50	18.5
20	64QAM	1	99	17.56	17.57	17.55	
20	64QAM	50	0	17.38	17.40	17.36	
20	64QAM	50	24	17.47	17.45	17.44	18.5
20	64QAM	50	50	17.48	17.48	17.45	
20	64QAM	100	0	17.39	17.36	17.32	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.27	17.24	17.28	18.5
15	QPSK	1	37	17.28	17.28	17.29	
15	QPSK	1	74	17.32	17.31	17.36	
15	QPSK	36	0	17.33	17.33	17.36	18.5
15	QPSK	36	20	17.40	17.39	17.48	
15	QPSK	36	39	17.46	17.45	17.46	
15	QPSK	75	0	17.37	17.29	17.32	18.5
15	16QAM	1	0	17.57	17.58	17.57	
15	16QAM	1	37	17.58	17.56	17.55	
15	16QAM	1	74	17.65	17.59	17.60	18.5
15	16QAM	36	0	17.34	17.35	17.37	
15	16QAM	36	20	17.40	17.38	17.45	
15	16QAM	36	39	17.46	17.43	17.45	18.5
15	16QAM	75	0	17.36	17.33	17.39	
15	64QAM	1	0	17.48	17.45	17.48	
15	64QAM	1	37	17.52	17.53	17.52	18.5
15	64QAM	1	74	17.55	17.54	17.55	
15	64QAM	36	0	17.40	17.38	17.38	
15	64QAM	36	20	17.48	17.41	17.47	18.5
15	64QAM	36	39	17.52	17.46	17.50	
15	64QAM	75	0	17.39	17.33	17.33	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	17.02	17.08	17.02	18.5
10	QPSK	1	25	17.01	17.06	17.07	
10	QPSK	1	49	17.07	17.10	17.07	
10	QPSK	25	0	17.13	17.11	17.10	18.5
10	QPSK	25	12	17.19	17.19	17.21	
10	QPSK	25	25	17.22	17.26	17.19	
10	QPSK	50	0	17.12	17.10	17.16	18.5
10	16QAM	1	0	17.41	17.43	17.39	
10	16QAM	1	25	17.45	17.51	17.42	
10	16QAM	1	49	17.47	17.54	17.48	18.5
10	16QAM	25	0	17.11	17.14	17.11	
10	16QAM	25	12	17.19	17.17	17.19	
10	16QAM	25	25	17.21	17.22	17.20	18.5
10	16QAM	50	0	17.10	17.04	17.08	
10	64QAM	1	0	17.25	17.31	17.29	
10	64QAM	1	25	17.36	17.39	17.41	18.5
10	64QAM	1	49	17.41	17.41	17.39	
10	64QAM	25	0	17.14	17.13	17.14	
10	64QAM	25	12	17.23	17.19	17.20	18.5
10	64QAM	25	25	17.22	17.24	17.23	
10	64QAM	50	0	17.17	17.09	17.13	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	17.00	17.06	17.07	18.5
5	QPSK	1	12	17.11	17.13	17.10	
5	QPSK	1	24	17.09	17.14	17.12	
5	QPSK	12	0	17.15	17.13	17.16	18.5
5	QPSK	12	7	17.19	17.18	17.18	
5	QPSK	12	13	17.18	17.17	17.13	
5	QPSK	25	0	17.18	17.14	17.15	18.5
5	16QAM	1	0	17.36	17.39	17.42	
5	16QAM	1	12	17.42	17.47	17.45	
5	16QAM	1	24	17.43	17.48	17.43	18.5
5	16QAM	12	0	17.18	17.13	17.16	
5	16QAM	12	7	17.23	17.20	17.19	
5	16QAM	12	13	17.19	17.18	17.15	18.5
5	16QAM	25	0	17.15	17.12	17.15	
5	64QAM	1	0	17.27	17.37	17.37	
5	64QAM	1	12	17.37	17.41	17.35	18.5
5	64QAM	1	24	17.30	17.41	17.35	
5	64QAM	12	0	17.21	17.19	17.21	
5	64QAM	12	7	17.27	17.24	17.20	18.5
5	64QAM	12	13	17.22	17.20	17.16	
5	64QAM	25	0	17.17	17.13	17.18	



Band 7_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				20550	21100	21350			
Frequency (MHz)				2510	2535	2560			
20	QPSK	1	0	14.17	14.17	14.18	15.5		
20	QPSK	1	49	14.18	14.26	14.24			
20	QPSK	1	99	14.22	14.28	14.27			
20	QPSK	50	0	14.32	14.35	14.27			
20	QPSK	50	24	14.39	14.38	14.35			
20	QPSK	50	50	14.38	14.41	14.41	15.5		
20	QPSK	100	0	14.30	14.22	14.21			
20	16QAM	1	0	14.58	14.56	14.64			
20	16QAM	1	49	14.63	14.85	14.84			
20	16QAM	1	99	14.67	14.70	14.68			
20	16QAM	50	0	14.34	14.37	14.40	15.5		
20	16QAM	50	24	14.46	14.43	14.42			
20	16QAM	50	50	14.48	14.50	14.50			
20	16QAM	100	0	14.36	14.29	14.29			
20	64QAM	1	0	14.43	14.45	14.49			
20	64QAM	1	49	14.52	14.56	14.56	15.5		
20	64QAM	1	99	14.59	14.55	14.56			
20	64QAM	50	0	14.39	14.44	14.43			
20	64QAM	50	24	14.47	14.48	14.47			
20	64QAM	50	50	14.51	14.51	14.51			
20	64QAM	100	0	14.39	14.37	14.36	15.5		
Channel				20825	21100	21375			
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	14.25	14.22	14.19	15.5		
15	QPSK	1	37	14.23	14.22	14.20			
15	QPSK	1	74	14.30	14.29	14.28			
15	QPSK	36	0	14.28	14.33	14.27			
15	QPSK	36	20	14.36	14.36	14.31			
15	QPSK	36	39	14.42	14.43	14.38	15.5		
15	QPSK	75	0	14.33	14.25	14.25			
15	16QAM	1	0	14.60	14.60	14.63			
15	16QAM	1	37	14.63	14.63	14.62			
15	16QAM	1	74	14.67	14.68	14.68			
15	16QAM	36	0	14.38	14.39	14.40	15.5		
15	16QAM	36	20	14.43	14.39	14.49			
15	16QAM	36	39	14.46	14.48	14.47			
15	16QAM	75	0	14.36	14.36	14.34			
15	64QAM	1	0	14.48	14.48	14.50			
15	64QAM	1	37	14.52	14.55	14.59	15.5		
15	64QAM	1	74	14.59	14.55	14.59			
15	64QAM	36	0	14.41	14.41	14.45			
15	64QAM	36	20	14.52	14.44	14.54			
15	64QAM	36	39	14.53	14.54	14.55			
15	64QAM	75	0	14.42	14.33	14.39	15.5		
Channel				20800	21100	21400			
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	14.01	14.05	14.01	15.5		
10	QPSK	1	25	14.04	14.15	14.00			
10	QPSK	1	49	14.10	14.17	14.08			
10	QPSK	25	0	14.08	14.12	14.08			
10	QPSK	25	12	14.19	14.12	14.13			
10	QPSK	25	25	14.18	14.21	14.20	15.5		
10	QPSK	50	0	14.11	14.06	13.99			
10	16QAM	1	0	14.47	14.46	14.48			
10	16QAM	1	25	14.45	14.54	14.50			
10	16QAM	1	49	14.51	14.54	14.54			
10	16QAM	25	0	14.16	14.17	14.19	15.5		
10	16QAM	25	12	14.25	14.21	14.28			
10	16QAM	25	25	14.22	14.29	14.27			
10	16QAM	50	0	14.16	14.12	14.16			
10	64QAM	1	0	14.31	14.35	14.34			
10	64QAM	1	25	14.39	14.45	14.44	15.5		
10	64QAM	1	49	14.42	14.49	14.45			
10	64QAM	25	0	14.19	14.21	14.21			
10	64QAM	25	12	14.26	14.25	14.28			
10	64QAM	25	25	14.26	14.32	14.29			
10	64QAM	50	0	14.21	14.15	14.20	15.5		
Channel				20775	21100	21425			
Frequency (MHz)				2502.5	2535	2567.5			
5	QPSK	1	0	14.00	14.06	14.04	15.5		
5	QPSK	1	12	14.09	14.14	14.11			
5	QPSK	1	24	14.11	14.21	14.07			
5	QPSK	12	0	14.07	14.06	14.09			
5	QPSK	12	7	14.20	14.18	14.18			
5	QPSK	12	13	14.16	14.18	14.13	15.5		
5	QPSK	25	0	14.15	14.08	14.12			
5	16QAM	1	0	14.39	14.41	14.49			
5	16QAM	1	12	14.40	14.43	14.50			
5	16QAM	1	24	14.52	14.51	14.51			
5	16QAM	12	0	14.20	14.18	14.23	15.5		
5	16QAM	12	7	14.25	14.23	14.27			
5	16QAM	12	13	14.25	14.23	14.21			
5	16QAM	25	0	14.18	14.16	14.24			
5	64QAM	1	0	14.37	14.40	14.47			
5	64QAM	1	12	14.40	14.46	14.43	15.5		
5	64QAM	1	24	14.44	14.43	14.48			
5	64QAM	12	0	14.25	14.26	14.29			
5	64QAM	12	7	14.31	14.29	14.33			
5	64QAM	12	13	14.31	14.31	14.26			
5	64QAM	25	0	14.21	14.19	14.26	15.5		



Band 7_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20850	Power Middle Ch. Freq. 21100	Power High Ch. Freq. 21350	Tune-up limit (dBm)
Channel				2510	2535	2560	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	14.17	14.17	14.18	16
20	QPSK	1	49	14.18	14.26	14.24	
20	QPSK	1	99	14.22	14.28	14.27	
20	QPSK	50	0	14.32	14.35	14.27	16
20	QPSK	50	24	14.39	14.38	14.35	
20	QPSK	50	50	14.38	14.41	14.41	
20	QPSK	100	0	14.30	14.22	14.21	16
20	16QAM	1	0	14.58	14.56	14.64	
20	16QAM	1	49	14.63	14.65	14.64	
20	16QAM	1	99	14.67	14.70	14.68	16
20	16QAM	50	0	14.34	14.37	14.40	
20	16QAM	50	24	14.46	14.43	14.42	
20	16QAM	50	50	14.48	14.50	14.50	16
20	16QAM	100	0	14.36	14.29	14.29	
20	64QAM	1	0	14.43	14.45	14.49	
20	64QAM	1	49	14.52	14.56	14.56	16
20	64QAM	1	99	14.59	14.55	14.56	
20	64QAM	50	0	14.39	14.44	14.43	
20	64QAM	50	24	14.47	14.48	14.47	16
20	64QAM	50	50	14.51	14.51	14.51	
20	64QAM	100	0	14.39	14.37	14.36	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	14.25	14.22	14.19	16
15	QPSK	1	37	14.23	14.22	14.20	
15	QPSK	1	74	14.30	14.29	14.28	
15	QPSK	36	0	14.28	14.33	14.27	16
15	QPSK	36	20	14.36	14.36	14.31	
15	QPSK	36	39	14.42	14.43	14.38	
15	QPSK	75	0	14.33	14.25	14.25	16
15	16QAM	1	0	14.60	14.60	14.63	
15	16QAM	1	37	14.63	14.63	14.62	
15	16QAM	1	74	14.67	14.68	14.68	16
15	16QAM	36	0	14.38	14.39	14.40	
15	16QAM	36	20	14.43	14.39	14.49	
15	16QAM	36	39	14.46	14.48	14.47	16
15	16QAM	75	0	14.36	14.36	14.34	
15	64QAM	1	0	14.48	14.48	14.50	
15	64QAM	1	37	14.52	14.55	14.59	16
15	64QAM	1	74	14.59	14.55	14.59	
15	64QAM	36	0	14.41	14.41	14.45	
15	64QAM	36	20	14.52	14.44	14.54	16
15	64QAM	36	39	14.53	14.54	14.55	
15	64QAM	75	0	14.42	14.33	14.39	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	14.01	14.05	14.01	16
10	QPSK	1	25	14.04	14.15	14.00	
10	QPSK	1	49	14.10	14.17	14.08	
10	QPSK	25	0	14.08	14.12	14.08	16
10	QPSK	25	12	14.19	14.12	14.13	
10	QPSK	25	25	14.18	14.21	14.20	
10	QPSK	50	0	14.11	14.06	13.99	16
10	16QAM	1	0	14.47	14.46	14.48	
10	16QAM	1	25	14.45	14.54	14.50	
10	16QAM	1	49	14.51	14.54	14.54	16
10	16QAM	25	0	14.16	14.17	14.19	
10	16QAM	25	12	14.25	14.21	14.28	
10	16QAM	25	25	14.22	14.29	14.27	16
10	16QAM	50	0	14.16	14.12	14.16	
10	64QAM	1	0	14.31	14.35	14.34	
10	64QAM	1	25	14.39	14.45	14.44	16
10	64QAM	1	49	14.42	14.49	14.45	
10	64QAM	25	0	14.19	14.21	14.21	
10	64QAM	25	12	14.26	14.25	14.28	16
10	64QAM	25	25	14.26	14.32	14.29	
10	64QAM	50	0	14.21	14.15	14.20	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	14.00	14.06	14.04	16
5	QPSK	1	12	14.09	14.14	14.11	
5	QPSK	1	24	14.11	14.21	14.07	
5	QPSK	12	0	14.07	14.06	14.09	16
5	QPSK	12	7	14.20	14.18	14.18	
5	QPSK	12	13	14.16	14.18	14.13	
5	QPSK	25	0	14.15	14.08	14.12	16
5	16QAM	1	0	14.39	14.41	14.49	
5	16QAM	1	12	14.46	14.43	14.50	
5	16QAM	1	24	14.52	14.51	14.51	16
5	16QAM	12	0	14.20	14.18	14.23	
5	16QAM	12	7	14.25	14.23	14.27	
5	16QAM	12	13	14.25	14.23	14.21	16
5	16QAM	25	0	14.18	14.16	14.24	
5	64QAM	1	0	14.37	14.40	14.47	
5	64QAM	1	12	14.40	14.46	14.43	16
5	64QAM	1	24	14.44	14.43	14.48	
5	64QAM	12	0	14.25	14.26	14.29	
5	64QAM	12	7	14.31	14.29	14.33	16
5	64QAM	12	13	14.31	14.31	14.26	
5	64QAM	25	0	14.21	14.19	14.26	



Band 7_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20550	Power Middle Ch. Freq. 21100	Power High Ch. Freq. 21350	Tune-up limit (dBm)
Channel				2510	2535	2560	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	18.72	18.71	18.71	20
20	QPSK	1	49	18.76	18.73	18.72	
20	QPSK	1	99	18.80	18.80	18.77	20
20	QPSK	50	0	18.82	18.83	18.81	
20	QPSK	50	24	18.90	18.86	18.85	20
20	QPSK	50	50	18.90	18.91	18.90	
20	QPSK	100	0	18.87	18.76	18.74	20
20	16QAM	1	0	19.03	19.02	19.08	
20	16QAM	1	49	19.08	19.08	19.05	20
20	16QAM	1	99	19.12	19.14	19.10	
20	16QAM	50	0	18.81	18.81	18.80	20
20	16QAM	50	24	18.93	18.84	18.85	
20	16QAM	50	50	18.88	18.91	18.91	20
20	16QAM	100	0	18.84	18.76	18.76	
20	64QAM	1	0	19.03	18.90	18.95	20
20	64QAM	1	49	18.96	19.03	18.99	
20	64QAM	1	99	19.07	19.02	19.02	20
20	64QAM	50	0	18.84	18.84	18.84	
20	64QAM	50	24	18.93	18.87	18.87	20
20	64QAM	50	50	18.92	18.92	18.93	
20	64QAM	100	0	18.86	18.82	18.78	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	18.76	18.73	18.82	20
15	QPSK	1	37	18.79	18.77	18.82	
15	QPSK	1	74	18.81	18.82	18.82	20
15	QPSK	36	0	18.78	18.78	18.86	
15	QPSK	36	20	18.89	18.83	18.92	20
15	QPSK	36	39	18.93	18.91	18.97	
15	QPSK	75	0	18.85	18.78	18.79	20
15	16QAM	1	0	19.10	19.06	19.08	
15	16QAM	1	37	19.08	19.07	19.10	20
15	16QAM	1	74	19.12	19.08	19.12	
15	16QAM	36	0	18.82	18.80	18.82	20
15	16QAM	36	20	18.91	18.84	18.92	
15	16QAM	36	39	18.91	18.91	18.88	20
15	16QAM	75	0	18.88	18.80	18.85	
15	64QAM	1	0	18.96	18.91	18.95	20
15	64QAM	1	37	18.98	19.02	19.03	
15	64QAM	1	74	19.02	19.03	19.02	20
15	64QAM	36	0	18.83	18.82	18.84	
15	64QAM	36	20	18.94	18.83	18.98	20
15	64QAM	36	39	18.95	18.94	18.95	
15	64QAM	75	0	18.88	18.81	18.83	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	18.50	18.58	18.57	20
10	QPSK	1	25	18.50	18.59	18.57	
10	QPSK	1	49	18.57	18.63	18.58	20
10	QPSK	25	0	18.57	18.62	18.60	
10	QPSK	25	12	18.66	18.65	18.71	20
10	QPSK	25	25	18.64	18.75	18.71	
10	QPSK	50	0	18.61	18.61	18.66	20
10	16QAM	1	0	18.67	18.94	18.90	
10	16QAM	1	25	18.91	18.96	18.92	20
10	16QAM	1	49	18.95	18.98	18.99	
10	16QAM	25	0	18.55	18.58	18.57	20
10	16QAM	25	12	18.68	18.63	18.70	
10	16QAM	25	25	18.66	18.70	18.67	20
10	16QAM	50	0	18.59	18.56	18.60	
10	64QAM	1	0	18.75	18.79	18.75	20
10	64QAM	1	25	18.83	18.86	18.86	
10	64QAM	1	49	18.84	18.93	18.86	20
10	64QAM	25	0	18.62	18.60	18.62	
10	64QAM	25	12	18.71	18.66	18.73	20
10	64QAM	25	25	18.70	18.72	18.72	
10	64QAM	50	0	18.64	18.59	18.63	
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	18.48	18.57	18.59	20
5	QPSK	1	12	18.59	18.67	18.67	
5	QPSK	1	24	18.59	18.66	18.61	20
5	QPSK	12	0	18.65	18.64	18.69	
5	QPSK	12	7	18.72	18.68	18.74	20
5	QPSK	12	13	18.66	18.73	18.67	
5	QPSK	25	0	18.62	18.65	18.67	20
5	16QAM	1	0	18.86	18.90	18.92	
5	16QAM	1	12	18.97	18.97	18.96	20
5	16QAM	1	24	18.93	18.98	18.91	
5	16QAM	12	0	18.65	18.66	18.66	20
5	16QAM	12	7	18.73	18.73	18.72	
5	16QAM	12	13	18.68	18.72	18.67	20
5	16QAM	25	0	18.66	18.62	18.68	
5	64QAM	1	0	18.78	18.89	18.89	20
5	64QAM	1	12	18.79	18.91	18.87	
5	64QAM	1	24	18.79	18.93	18.90	20
5	64QAM	12	0	18.70	18.69	18.72	
5	64QAM	12	7	18.77	18.74	18.78	20
5	64QAM	12	13	18.70	18.73	18.71	
5	64QAM	25	0	18.67	18.65	18.66	



Band 7_Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20550	Power Middle Ch. Freq. 21100	Power High Ch. Freq. 21350	Tune-up limit (dBm)				
Channel				2510	2535	2560					
Frequency (MHz)				2510	2535	2560					
20	QPSK	1	0	17.25	17.25	17.25	18.5				
20	QPSK	1	49	17.25	17.30	17.31					
20	QPSK	1	99	17.37	17.33	17.36					
20	QPSK	50	0	17.39	17.42	17.40	18.5				
20	QPSK	50	24	17.46	17.46	17.48					
20	QPSK	50	50	17.52	17.50	17.49					
20	QPSK	100	0	17.39	17.34	17.29	18.5				
20	16QAM	1	0	17.61	17.60	17.64					
20	16QAM	1	49	17.65	17.62	17.64					
20	16QAM	1	99	17.69	17.67	17.67	18.5				
20	16QAM	50	0	17.36	17.40	17.39					
20	16QAM	50	24	17.46	17.42	17.42					
20	16QAM	50	50	17.49	17.49	17.49	18.5				
20	16QAM	100	0	17.36	17.33	17.31					
20	64QAM	1	0	17.45	17.44	17.45					
20	64QAM	1	49	17.54	17.50	17.58	18.5				
20	64QAM	1	99	17.56	17.60	17.60					
20	64QAM	50	0	17.40	17.45	17.44					
20	64QAM	50	24	17.49	17.46	17.46	18.5				
20	64QAM	50	50	17.51	17.52	17.50					
20	64QAM	100	0	17.42	17.37	17.33					
Channel				20825	21100	21375	Tune-up limit (dBm)				
Frequency (MHz)				2507.5	2535	2562.5					
15	QPSK	1	0	17.30	17.29	17.34	18.5				
15	QPSK	1	37	17.30	17.32	17.31					
15	QPSK	1	74	17.36	17.38	17.40					
15	QPSK	36	0	17.37	17.38	17.42	18.5				
15	QPSK	36	20	17.49	17.43	17.48					
15	QPSK	36	39	17.50	17.48	17.53					
15	QPSK	75	0	17.39	17.32	17.37	18.5				
15	16QAM	1	0	17.63	17.61	17.61					
15	16QAM	1	37	17.62	17.63	17.62					
15	16QAM	1	74	17.65	17.67	17.64	18.5				
15	16QAM	36	0	17.42	17.40	17.43					
15	16QAM	36	20	17.48	17.41	17.49					
15	16QAM	36	39	17.47	17.47	17.50	18.5				
15	16QAM	75	0	17.41	17.32	17.39					
15	64QAM	1	0	17.48	17.46	17.48					
15	64QAM	1	37	17.55	17.55	17.58	18.5				
15	64QAM	1	74	17.57	17.58	17.59					
15	64QAM	36	0	17.43	17.42	17.43					
15	64QAM	36	20	17.53	17.46	17.52	18.5				
15	64QAM	36	39	17.53	17.55	17.54					
15	64QAM	75	0	17.43	17.37	17.37					
Channel				20800	21100	21400	Tune-up limit (dBm)				
Frequency (MHz)				2505	2535	2565					
10	QPSK	1	0	17.10	17.11	17.11	18.5				
10	QPSK	1	25	17.07	17.16	17.10					
10	QPSK	1	49	17.12	17.17	17.12					
10	QPSK	25	0	17.15	17.18	17.14	18.5				
10	QPSK	25	12	17.23	17.23	17.23					
10	QPSK	25	25	17.21	17.24	17.27					
10	QPSK	50	0	17.17	17.13	17.19	18.5				
10	16QAM	1	0	17.47	17.48	17.44					
10	16QAM	1	25	17.47	17.47	17.50					
10	16QAM	1	49	17.50	17.58	17.52	18.5				
10	16QAM	25	0	17.16	17.18	17.17					
10	16QAM	25	12	17.22	17.20	17.22					
10	16QAM	25	25	17.22	17.27	17.27	18.5				
10	16QAM	50	0	17.14	17.08	17.13					
10	64QAM	1	0	17.28	17.29	17.29					
10	64QAM	1	25	17.43	17.42	17.45	18.5				
10	64QAM	1	49	17.40	17.46	17.44					
10	64QAM	25	0	17.17	17.20	17.18					
10	64QAM	25	12	17.27	17.23	17.29	18.5				
10	64QAM	25	25	17.26	17.29	17.29					
10	64QAM	50	0	17.20	17.12	17.17					
Channel				20775	21100	21425	Tune-up limit (dBm)				
Frequency (MHz)				2502.5	2535	2567.5					
5	QPSK	1	0	17.04	17.10	17.16	18.5				
5	QPSK	1	12	17.15	17.19	17.20					
5	QPSK	1	24	17.15	17.19	17.16					
5	QPSK	12	0	17.20	17.19	17.23	18.5				
5	QPSK	12	7	17.25	17.23	17.24					
5	QPSK	12	13	17.21	17.24	17.20					
5	QPSK	25	0	17.21	17.18	17.22	18.5				
5	16QAM	1	0	17.39	17.44	17.47					
5	16QAM	1	12	17.50	17.56	17.52					
5	16QAM	1	24	17.50	17.53	17.49	18.5				
5	16QAM	12	0	17.22	17.22	17.24					
5	16QAM	12	7	17.28	17.24	17.26					
5	16QAM	12	13	17.21	17.24	17.21	18.5				
5	16QAM	25	0	17.21	17.16	17.22					
5	64QAM	1	0	17.35	17.41	17.46					
5	64QAM	1	12	17.43	17.46	17.43	18.5				
5	64QAM	1	24	17.34	17.48	17.47					
5	64QAM	12	0	17.26	17.23	17.27					
5	64QAM	12	7	17.31	17.30	17.28	18.5				
5	64QAM	12	13	17.25	17.26	17.23					
5	64QAM	25	0	17.21	17.18	17.23					



Band 7_Ant 0							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20550	Power Middle Ch. Freq. 21100	Power High Ch. Freq. 21350	Tune-up limit (dBm)
Channel				2510	2535	2560	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	17.25	17.25	17.25	19
20	QPSK	1	49	17.25	17.30	17.31	
20	QPSK	1	99	17.37	17.33	17.36	
20	QPSK	50	0	17.39	17.42	17.40	19
20	QPSK	50	24	17.46	17.46	17.48	
20	QPSK	50	50	17.45	17.50	17.52	
20	QPSK	100	0	17.39	17.34	17.29	19
20	16QAM	1	0	17.61	17.60	17.64	
20	16QAM	1	49	17.65	17.62	17.64	
20	16QAM	1	99	17.69	17.67	17.67	19
20	16QAM	50	0	17.36	17.40	17.39	
20	16QAM	50	24	17.46	17.42	17.42	
20	16QAM	50	50	17.49	17.49	17.49	19
20	16QAM	100	0	17.36	17.33	17.31	
20	64QAM	1	0	17.45	17.44	17.45	
20	64QAM	1	49	17.54	17.50	17.58	19
20	64QAM	1	99	17.56	17.60	17.60	
20	64QAM	50	0	17.40	17.45	17.44	
20	64QAM	50	24	17.49	17.46	17.46	19
20	64QAM	50	50	17.51	17.52	17.50	
20	64QAM	100	0	17.42	17.37	17.33	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.30	17.29	17.34	19
15	QPSK	1	37	17.30	17.32	17.31	
15	QPSK	1	74	17.36	17.38	17.40	
15	QPSK	36	0	17.37	17.38	17.42	19
15	QPSK	36	20	17.49	17.43	17.48	
15	QPSK	36	39	17.50	17.48	17.53	
15	QPSK	75	0	17.39	17.32	17.37	19
15	16QAM	1	0	17.63	17.61	17.61	
15	16QAM	1	37	17.62	17.63	17.62	
15	16QAM	1	74	17.65	17.67	17.64	19
15	16QAM	36	0	17.42	17.40	17.43	
15	16QAM	36	20	17.48	17.41	17.49	
15	16QAM	36	39	17.47	17.47	17.50	19
15	16QAM	75	0	17.41	17.32	17.39	
15	64QAM	1	0	17.48	17.46	17.48	
15	64QAM	1	37	17.55	17.55	17.58	19
15	64QAM	1	74	17.57	17.58	17.59	
15	64QAM	36	0	17.43	17.42	17.43	
15	64QAM	36	20	17.53	17.46	17.52	19
15	64QAM	36	39	17.53	17.55	17.54	
15	64QAM	75	0	17.43	17.37	17.37	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	17.10	17.11	17.11	19
10	QPSK	1	25	17.07	17.16	17.10	
10	QPSK	1	49	17.12	17.17	17.12	
10	QPSK	25	0	17.15	17.18	17.14	19
10	QPSK	25	12	17.23	17.23	17.23	
10	QPSK	25	25	17.21	17.24	17.27	
10	QPSK	50	0	17.17	17.13	17.19	19
10	16QAM	1	0	17.47	17.48	17.44	
10	16QAM	1	25	17.47	17.47	17.50	
10	16QAM	1	49	17.50	17.58	17.52	19
10	16QAM	25	0	17.16	17.18	17.17	
10	16QAM	25	12	17.22	17.20	17.22	
10	16QAM	25	25	17.22	17.27	17.27	19
10	16QAM	50	0	17.14	17.08	17.13	
10	64QAM	1	0	17.28	17.29	17.29	
10	64QAM	1	25	17.43	17.42	17.45	19
10	64QAM	1	49	17.40	17.46	17.44	
10	64QAM	25	0	17.17	17.20	17.18	
10	64QAM	25	12	17.27	17.23	17.29	19
10	64QAM	25	25	17.26	17.29	17.29	
10	64QAM	50	0	17.20	17.12	17.17	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	17.04	17.10	17.16	19
5	QPSK	1	12	17.15	17.19	17.20	
5	QPSK	1	24	17.15	17.19	17.16	
5	QPSK	12	0	17.20	17.19	17.23	19
5	QPSK	12	7	17.25	17.23	17.24	
5	QPSK	12	13	17.21	17.24	17.20	
5	QPSK	25	0	17.21	17.18	17.22	19
5	16QAM	1	0	17.39	17.44	17.47	
5	16QAM	1	12	17.50	17.56	17.52	
5	16QAM	1	24	17.50	17.53	17.49	19
5	16QAM	12	0	17.22	17.22	17.24	
5	16QAM	12	7	17.28	17.24	17.26	
5	16QAM	12	13	17.21	17.24	17.21	19
5	16QAM	25	0	17.21	17.16	17.22	
5	64QAM	1	0	17.35	17.41	17.46	
5	64QAM	1	12	17.43	17.46	17.43	19
5	64QAM	1	24	17.34	17.48	17.47	
5	64QAM	12	0	17.26	17.23	17.27	
5	64QAM	12	7	17.31	17.30	17.28	19
5	64QAM	12	13	17.25	17.26	17.23	
5	64QAM	25	0	17.21	17.18	17.23	

<TDD LTE SAR Measurement>

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.

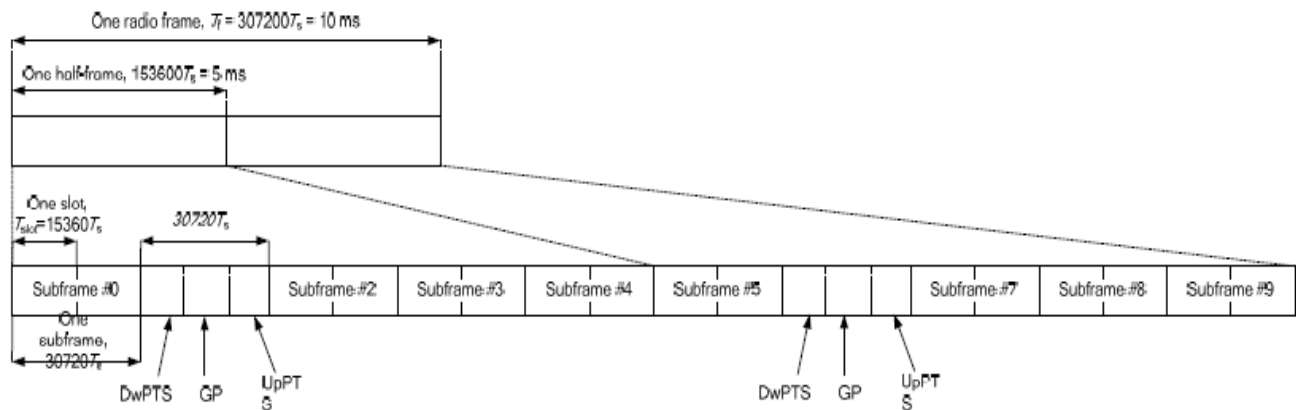


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$			$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Special subframe (30720·T _s): Normal cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~4	7.13%	8.33%
	5~9	14.3%	16.7%

Special subframe(30720·T _s): Extended cyclic prefix in downlink (UpPTS)			
	Special subframe configuration	Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
Uplink duty factor in one special subframe	0~3	7.13%	8.33%
	4~7	14.3%	16.7%

The highest duty factor is resulted from:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- v. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix $63.3\%/62.9\% = 1.006$ is applied to scale-up the measured SAR result. The
- vi. The device supports Power Class 3 uplink-downlink configurations 0 and 6, and Power Class 2 uplink-downlink configurations 1 to 5 operations for LTE Band 41.
- vii. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1, for Power Class 3 operation is 63.3% using UL-DL configuration 0. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR among all exposure condition.



Band 38_Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)
Channel				37650	38000	38150	25
Frequency (MHz)				23.60	23.75	23.90	
20	QPSK	1	0	24.37	24.38	24.38	24
20	QPSK	1	49	24.36	24.34	24.35	
20	QPSK	1	89	24.33	24.38	24.31	
20	QPSK	50	0	23.24	23.25	23.23	
20	QPSK	50	24	23.41	23.42	23.32	
20	QPSK	80	50	23.33	23.34	23.30	23
20	QPSK	100	0	23.33	23.35	23.23	
20	16QAM	1	0	23.48	23.49	23.45	
20	16QAM	1	49	23.44	23.42	23.42	
20	16QAM	1	89	23.43	23.46	23.47	
20	16QAM	50	0	22.27	22.28	22.25	22
20	16QAM	50	24	22.45	22.45	22.37	
20	16QAM	50	50	22.36	22.35	22.33	
20	16QAM	100	0	22.35	22.35	22.26	
20	64QAM	1	0	22.22	22.27	22.25	
20	64QAM	1	49	22.22	22.22	22.25	21
20	64QAM	1	89	22.24	22.26	22.31	
20	64QAM	50	0	21.27	21.29	21.28	
20	64QAM	50	24	21.43	21.46	21.36	
20	64QAM	50	50	21.36	21.37	21.33	
20	64QAM	100	0	21.35	21.36	21.29	20
Channel				37625	38000	38175	
Frequency (MHz)				23.775	23.95	24.125	19
15	QPSK	1	0	24.37	24.35	24.32	
15	QPSK	1	37	24.33	24.33	24.27	18
15	QPSK	1	74	24.32	24.32	24.30	
15	QPSK	36	0	23.28	23.29	23.27	
15	QPSK	36	20	23.45	23.44	23.32	
15	QPSK	36	39	23.37	23.36	23.33	
15	QPSK	75	0	23.39	23.37	23.28	17
15	16QAM	1	0	23.47	23.46	23.46	
15	16QAM	1	37	23.37	23.34	23.39	
15	16QAM	1	74	23.45	23.50	23.46	
15	16QAM	36	0	22.26	22.26	22.24	
15	16QAM	36	20	22.41	22.40	22.30	16
15	16QAM	36	39	22.33	22.34	22.31	
15	16QAM	75	0	22.40	22.40	22.29	
15	64QAM	1	0	22.18	22.23	22.19	
15	64QAM	1	37	22.20	22.22	22.24	
15	64QAM	1	74	22.24	22.24	22.26	15
15	64QAM	36	0	21.31	21.32	21.30	
15	64QAM	36	20	21.46	21.48	21.34	
15	64QAM	36	39	21.39	21.36	21.34	
15	64QAM	75	0	21.39	21.40	21.28	
Channel				37600	38000	38200	14
Frequency (MHz)				23.75	23.95	24.15	
10	QPSK	1	0	23.61	23.99	23.96	13
10	QPSK	1	25	23.93	23.96	23.97	
10	QPSK	1	49	23.76	24.07	24.06	
10	QPSK	25	0	22.98	23.02	22.98	
10	QPSK	25	12	23.16	23.22	23.09	
10	QPSK	25	25	23.10	23.13	23.05	12
10	QPSK	50	0	23.07	23.12	22.98	
10	16QAM	1	0	23.06	23.39	23.37	
10	16QAM	1	25	23.35	23.35	23.30	
10	16QAM	1	49	23.07	23.36	23.34	
10	16QAM	25	0	22.00	22.05	22.01	11
10	16QAM	25	12	22.21	22.22	22.15	
10	16QAM	25	25	22.14	22.13	22.11	
10	16QAM	50	0	22.15	22.14	22.05	
10	64QAM	1	0	21.91	22.24	22.24	
10	64QAM	1	25	22.28	22.32	22.34	10
10	64QAM	1	49	22.02	22.28	22.29	
10	64QAM	25	0	21.08	21.12	21.07	
10	64QAM	25	12	21.30	21.29	21.18	
10	64QAM	25	25	21.17	21.21	21.17	
10	64QAM	50	0	21.15	21.14	21.05	9
Channel				37775	38000	38225	
Frequency (MHz)				23.725	23.95	24.175	8
5	QPSK	1	0	23.95	24.00	24.00	
5	QPSK	1	12	24.03	24.11	24.05	7
5	QPSK	1	24	24.02	24.04	24.04	
5	QPSK	12	0	23.15	23.14	23.05	
5	QPSK	12	7	23.21	23.23	23.20	
5	QPSK	12	13	23.16	23.21	23.15	6
5	QPSK	25	0	23.15	23.19	23.14	
5	16QAM	1	0	23.08	23.16	23.09	
5	16QAM	1	12	23.25	23.27	23.25	
5	16QAM	1	24	23.21	23.26	23.21	
5	16QAM	12	0	22.13	22.12	22.05	5
5	16QAM	12	7	22.19	22.23	22.17	
5	16QAM	12	13	22.15	22.20	22.13	
5	16QAM	25	0	22.20	22.21	22.18	
5	64QAM	1	0	21.85	21.88	21.87	
5	64QAM	1	12	21.96	22.01	21.99	4
5	64QAM	1	24	21.97	22.00	21.98	
5	64QAM	12	0	21.20	21.14	21.13	
5	64QAM	12	7	21.25	21.28	21.21	
5	64QAM	12	13	21.23	21.24	21.20	
5	64QAM	25	0	21.23	21.27	21.20	3



Band 41_Ant 3									
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)				2500	2543.5	2587	2630.5	2674	
20	QPSK	1	0	23.90	23.85	23.85	23.73	23.50	24.5
20	QPSK	1	49	23.90	23.86	23.89	23.93	23.85	
20	QPSK	1	99	23.81	23.84	23.73	23.50	23.75	
20	QPSK	50	0	22.95	22.89	22.93	22.93	22.79	
20	QPSK	50	24	22.86	22.87	23.13	22.87	22.92	
20	QPSK	50	50	22.90	22.95	23.06	22.89	22.91	23.5
20	QPSK	100	0	22.87	22.86	23.04	22.86	22.83	
20	16QAM	1	0	23.06	23.04	22.77	22.87	22.64	
20	16QAM	1	49	22.93	22.91	23.09	23.05	22.92	
20	16QAM	1	99	22.83	23.03	22.80	22.61	22.85	
20	16QAM	50	0	22.06	21.92	21.87	21.87	21.82	22.5
20	16QAM	50	24	22.00	22.02	22.14	22.02	21.94	
20	16QAM	50	50	21.91	21.88	22.09	21.93	22.00	
20	16QAM	100	0	21.90	21.90	22.07	21.90	21.86	
20	64QAM	1	0	21.85	21.79	21.49	21.61	21.34	
20	64QAM	1	49	21.71	21.69	21.86	21.80	21.71	22.5
20	64QAM	1	99	21.71	21.85	21.57	21.42	21.64	
20	64QAM	50	0	21.01	20.91	20.98	20.98	20.82	
20	64QAM	50	24	20.99	21.00	21.16	21.01	20.94	
20	64QAM	50	50	20.84	20.98	21.09	20.93	20.99	
20	64QAM	100	0	20.91	20.90	21.07	20.91	20.87	21.5
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.93	23.87	23.80	23.87	23.62	24.5
15	QPSK	1	37	23.87	23.78	23.95	23.87	23.83	
15	QPSK	1	74	23.83	23.61	23.84	23.66	23.78	
15	QPSK	36	0	22.97	22.84	22.96	22.94	22.82	
15	QPSK	36	20	22.87	22.98	23.13	23.05	23.00	
15	QPSK	36	39	22.93	22.87	23.07	22.93	22.96	23.5
15	QPSK	75	0	22.81	22.90	23.07	22.97	22.88	
15	16QAM	1	0	23.06	22.84	22.92	22.97	22.75	
15	16QAM	1	37	22.90	22.92	23.06	23.06	22.91	
15	16QAM	1	74	22.85	22.80	22.97	22.83	22.92	
15	16QAM	36	0	21.96	21.82	21.93	21.94	21.79	22.5
15	16QAM	36	20	21.83	21.95	22.10	22.02	21.95	
15	16QAM	36	39	21.91	21.88	22.06	21.92	21.95	
15	16QAM	75	0	21.94	21.93	22.10	22.02	21.89	
15	64QAM	1	0	21.85	21.57	21.65	21.74	21.52	
15	64QAM	1	37	21.74	21.77	21.87	21.85	21.76	22.5
15	64QAM	1	74	21.71	21.82	21.71	21.60	21.76	
15	64QAM	36	0	20.99	20.86	21.00	20.97	20.85	
15	64QAM	36	20	21.00	21.00	21.16	21.08	21.02	
15	64QAM	36	39	20.85	20.89	21.10	20.95	20.98	
15	64QAM	75	0	20.95	20.93	21.07	21.02	20.89	21.5
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.86	23.68	23.85	23.92	23.71	24.5
10	QPSK	1	25	23.87	23.87	23.90	23.80	23.80	
10	QPSK	1	49	23.89	23.51	23.93	23.74	23.72	
10	QPSK	25	0	23.04	22.81	23.06	22.92	22.74	
10	QPSK	25	12	22.95	23.02	23.04	23.03	22.93	
10	QPSK	25	25	22.85	22.81	23.10	22.93	22.90	23.5
10	QPSK	50	0	22.86	22.91	22.98	23.03	22.88	
10	16QAM	1	0	23.05	22.84	22.99	22.97	22.65	
10	16QAM	1	25	22.90	22.94	23.11	23.11	22.92	
10	16QAM	1	49	22.85	22.94	22.95	22.90	22.87	
10	16QAM	25	0	22.04	21.73	21.85	22.01	21.72	22.5
10	16QAM	25	12	21.89	22.01	22.10	22.08	22.02	
10	16QAM	25	25	21.92	21.93	22.09	21.94	21.90	
10	16QAM	50	0	22.02	21.95	22.00	21.92	21.93	
10	64QAM	1	0	21.85	21.65	21.72	21.71	21.54	
10	64QAM	1	25	21.67	21.75	21.89	21.87	21.77	22.5
10	64QAM	1	49	21.66	21.62	21.72	21.66	21.70	
10	64QAM	25	0	21.08	20.85	20.97	20.96	20.84	
10	64QAM	25	12	21.05	20.86	21.16	21.07	21.02	
10	64QAM	25	25	20.99	20.94	21.14	20.92	21.07	
10	64QAM	50	0	20.87	20.88	21.03	20.99	20.79	21.5
Channel				39675	40146	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5	
5	QPSK	1	0	23.76	23.63	23.75	23.70	23.72	24.5
5	QPSK	1	12	23.64	23.59	23.80	23.71	23.70	
5	QPSK	1	24	23.66	23.63	23.75	23.70	23.65	
5	QPSK	12	0	22.85	22.75	22.87	22.79	22.82	
5	QPSK	12	7	22.88	22.81	22.95	22.82	22.83	
5	QPSK	12	13	22.84	22.79	22.91	22.82	22.78	23.5
5	QPSK	25	0	22.82	22.79	22.90	22.78	22.79	
5	16QAM	1	0	22.89	22.75	22.92	22.81	22.89	
5	16QAM	1	12	22.87	22.80	22.99	22.90	22.86	
5	16QAM	1	24	22.92	22.76	22.98	22.86	22.85	
5	16QAM	12	0	21.84	21.75	21.88	21.78	21.79	22.5
5	16QAM	12	7	21.86	21.80	21.91	21.80	21.79	
5	16QAM	12	13	21.83	21.79	21.89	21.83	21.77	
5	16QAM	25	0	21.88	21.83	21.96	21.82	21.83	
5	64QAM	1	0	21.66	21.59	21.65	21.66	21.67	
5	64QAM	1	12	21.59	21.68	21.73	21.71	21.62	22.5
5	64QAM	1	24	21.63	21.68	21.73	21.69	21.59	
5	64QAM	12	0	20.89	20.80	20.92	20.86	20.83	
5	64QAM	12	7	20.91	20.87	21.01	20.86	20.89	
5	64QAM	12	13	20.88	20.84	20.96	20.90	20.82	
5	64QAM	25	0	20.87	20.84	21.00	20.85	20.84	



Band 41_Ant 3										
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	25.13	25.05	24.83	24.84	24.73	26	
20	QPSK	1	49	25.08	25.05	25.21	25.08	25.12		
20	QPSK	1	99	25.10	25.11	24.87	24.70	25.09		
20	QPSK	50	0	24.27	24.17	24.16	24.17	24.13		
20	QPSK	50	24	24.26	24.27	24.36	24.22	24.29		
20	QPSK	50	50	24.22	24.24	24.30	24.16	24.36	25	
20	QPSK	100	0	24.18	24.17	24.25	24.12	24.23		
20	16QAM	1	0	24.53	24.52	24.15	24.23	24.12		
20	16QAM	1	49	24.40	24.45	24.53	24.45	24.56		
20	16QAM	1	99	24.45	24.46	24.22	24.09	24.44		
20	16QAM	50	0	23.36	23.20	23.16	23.21	23.16	24	
20	16QAM	50	24	23.31	23.30	23.38	23.27	23.34		
20	16QAM	50	50	23.26	23.30	23.33	23.20	23.40		
20	16QAM	100	0	23.22	23.20	23.30	23.16	23.25		
20	64QAM	1	0	23.20	23.32	22.99	23.04	22.92		
20	64QAM	1	49	23.28	23.24	23.11	23.30	23.03	24	
20	64QAM	1	99	23.31	23.43	22.91	22.97	22.98		
20	64QAM	50	0	22.31	22.20	22.18	22.22	22.09		
20	64QAM	50	24	22.33	22.30	22.13	22.28	22.11		
20	64QAM	50	50	22.28	22.29	22.11	22.20	22.18		
20	64QAM	100	0	22.21	22.21	22.11	22.17	22.10	23	
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	25.18	24.83	25.00	25.05	24.94	26	
15	QPSK	1	37	25.15	25.14	25.20	25.16	25.21		
15	QPSK	1	74	25.17	24.94	25.13	24.97	25.21		
15	QPSK	36	0	24.29	24.13	24.19	24.19	24.19		
15	QPSK	36	20	24.28	24.29	24.40	24.33	24.38		
15	QPSK	36	39	24.26	24.19	24.33	24.22	24.35	25	
15	QPSK	75	0	24.23	24.20	24.31	24.25	24.24		
15	16QAM	1	0	24.50	24.29	24.34	24.37	24.28		
15	16QAM	1	37	24.44	24.47	24.54	24.46	24.55		
15	16QAM	1	74	24.48	24.28	24.38	24.31	24.53		
15	16QAM	36	0	23.27	23.13	23.18	23.18	23.17	24	
15	16QAM	36	20	23.28	23.27	23.37	23.29	23.36		
15	16QAM	36	39	23.25	23.20	23.33	23.21	23.35		
15	16QAM	75	0	23.26	23.23	23.33	23.27	23.25		
15	64QAM	1	0	23.07	23.10	23.15	23.19	23.00		
15	64QAM	1	37	23.34	23.40	22.98	23.37	23.00	24	
15	64QAM	1	74	23.32	23.22	22.90	23.17	23.08		
15	64QAM	36	0	22.24	22.16	22.08	22.22	22.03		
15	64QAM	36	20	22.31	22.30	22.03	22.34	22.10		
15	64QAM	36	39	22.27	22.22	22.03	22.24	22.12		
15	64QAM	75	0	22.29	22.22	22.08	22.26	22.07	23	
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	24.94	24.65	24.78	24.67	24.74	26	
10	QPSK	1	25	24.91	24.83	25.01	24.92	24.98		
10	QPSK	1	49	24.97	24.75	24.82	24.79	24.83		
10	QPSK	25	0	24.13	23.96	24.04	23.99	24.07		
10	QPSK	25	12	24.15	24.15	24.20	24.09	24.22		
10	QPSK	25	25	24.12	24.03	24.12	24.04	24.11	25	
10	QPSK	50	0	24.06	24.06	24.12	24.00	24.14		
10	16QAM	1	0	24.36	24.05	24.09	24.04	24.15		
10	16QAM	1	25	24.30	24.27	24.35	24.32	24.36		
10	16QAM	1	49	24.29	24.05	24.11	24.05	24.10		
10	16QAM	25	0	23.13	23.03	23.10	23.02	23.09	24	
10	16QAM	25	12	23.19	23.21	23.26	23.14	23.26		
10	16QAM	25	25	23.15	23.05	23.15	23.07	23.15		
10	16QAM	50	0	23.10	23.11	23.16	23.03	23.18		
10	64QAM	1	0	23.02	22.93	23.01	22.95	23.02		
10	64QAM	1	25	23.19	23.29	23.01	23.28	23.10	24	
10	64QAM	1	49	23.18	23.02	22.91	23.02	23.04		
10	64QAM	25	0	22.20	22.09	22.12	22.10	22.14		
10	64QAM	25	12	22.23	22.27	22.11	22.18	22.21		
10	64QAM	25	25	22.20	22.14	22.08	22.15	22.16		
10	64QAM	50	0	22.08	22.11	22.00	22.03	22.06	23	
Channel				39675	40146	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5		
5	QPSK	1	0	24.88	24.82	24.87	24.81	25.07	26	
5	QPSK	1	12	24.97	24.95	25.04	24.96	25.07		
5	QPSK	1	24	24.94	24.95	24.98	24.95	25.01		
5	QPSK	12	0	24.14	24.07	24.12	24.10	24.20		
5	QPSK	12	7	24.19	24.16	24.23	24.11	24.23		
5	QPSK	12	13	24.13	24.14	24.21	24.15	24.22	25	
5	QPSK	25	0	24.09	24.10	24.18	24.07	24.20		
5	16QAM	1	0	24.32	24.19	24.27	24.21	24.35		
5	16QAM	1	12	24.27	24.24	24.35	24.28	24.35		
5	16QAM	1	24	24.29	24.28	24.35	24.28	24.33		
5	16QAM	12	0	23.17	23.12	23.15	23.13	23.24	24	
5	16QAM	12	7	23.22	23.18	23.27	23.12	23.25		
5	16QAM	12	13	23.15	23.17	23.24	23.15	23.22		
5	16QAM	25	0	23.18	23.19	23.23	23.14	23.26		
5	64QAM	1	0	23.09	23.14	23.12	23.11	23.15		
5	64QAM	1	12	23.19	23.22	23.09	23.21	23.14	24	
5	64QAM	1	24	23.20	23.19	23.08	23.21	23.13		
5	64QAM	12	0	22.22	22.14	22.15	22.13	22.19		
5	64QAM	12	7	22.20	22.26	22.15	22.17	22.20		
5	64QAM	12	13	22.20	22.22	22.10	22.19	22.16		
5	64QAM	25	0	22.26	22.22	22.07	22.15	22.17	23	



Band 38_Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37650	38000	38150	
Frequency (MHz)				2260	2295	2310	
20	QPSK	1	0	22.81	22.86	22.85	23.5
20	QPSK	1	49	22.92	22.93	22.91	
20	QPSK	1	89	22.90	22.91	22.85	
20	QPSK	50	0	22.81	22.79	22.74	23.5
20	QPSK	50	24	22.97	22.98	22.87	
20	QPSK	80	50	22.92	22.90	22.85	
20	QPSK	100	0	22.89	22.88	22.75	23.5
20	16QAM	1	0	23.01	23.04	22.98	
20	16QAM	1	49	23.01	23.00	22.96	
20	16QAM	1	89	23.05	23.04	23.02	23
20	16QAM	50	0	22.32	22.32	22.27	
20	16QAM	50	24	22.51	22.51	22.39	
20	16QAM	50	50	22.43	22.42	22.36	23
20	16QAM	100	0	22.40	22.40	22.28	
20	64QAM	1	0	22.26	22.27	22.24	
20	64QAM	1	49	22.30	22.28	22.29	22
20	64QAM	1	89	22.31	22.32	22.34	
20	64QAM	50	0	21.32	21.30	21.28	
20	64QAM	50	24	21.53	21.53	21.39	22
20	64QAM	50	50	21.44	21.43	21.37	
20	64QAM	100	0	21.40	21.38	21.25	
Channel				37625	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.85	22.86	22.80	23.5
15	QPSK	1	37	22.87	22.89	22.82	
15	QPSK	1	74	22.90	22.92	22.86	
15	QPSK	36	0	22.81	22.83	22.79	23.5
15	QPSK	36	20	22.99	23.00	22.88	
15	QPSK	36	39	22.94	22.92	22.87	
15	QPSK	75	0	22.93	22.94	22.80	23.5
15	16QAM	1	0	22.98	23.01	22.89	
15	16QAM	1	37	22.92	22.94	22.97	
15	16QAM	1	74	23.04	23.04	23.04	23
15	16QAM	36	0	22.29	22.30	22.24	
15	16QAM	36	20	22.46	22.46	22.34	
15	16QAM	36	39	22.41	22.40	22.36	23
15	16QAM	75	0	22.46	22.45	22.33	
15	64QAM	1	0	22.19	22.20	22.19	
15	64QAM	1	37	22.25	22.26	22.30	22
15	64QAM	1	74	22.28	22.28	22.29	
15	64QAM	36	0	21.35	21.36	21.31	
15	64QAM	36	20	21.51	21.51	21.38	22
15	64QAM	36	39	21.45	21.44	21.39	
15	64QAM	75	0	21.43	21.44	21.32	
Channel				37600	38000	38200	
Frequency (MHz)				2675	2695	2715	
10	QPSK	1	0	22.92	22.91	22.74	23.5
10	QPSK	1	25	22.79	22.96	22.90	
10	QPSK	1	49	22.82	22.89	22.86	
10	QPSK	25	0	22.89	22.93	22.80	23.5
10	QPSK	25	12	23.01	23.00	22.83	
10	QPSK	25	25	22.94	22.90	22.84	
10	QPSK	50	0	22.94	22.87	22.76	23.5
10	16QAM	1	0	23.01	23.04	23.03	
10	16QAM	1	25	22.93	22.88	23.01	
10	16QAM	1	49	23.01	23.04	22.99	23
10	16QAM	25	0	22.30	22.34	22.15	
10	16QAM	25	12	22.41	22.36	22.32	
10	16QAM	25	25	22.42	22.49	22.43	23
10	16QAM	50	0	22.45	22.46	22.34	
10	64QAM	1	0	22.24	22.16	22.25	
10	64QAM	1	25	22.15	22.28	22.25	22
10	64QAM	1	49	22.37	22.22	22.23	
10	64QAM	25	0	21.39	21.43	21.28	
10	64QAM	25	12	21.44	21.46	21.30	22
10	64QAM	25	25	21.42	21.45	21.49	
10	64QAM	50	0	21.39	21.40	21.23	
Channel				37775	38000	38225	
Frequency (MHz)				2722.5	2755	2817.5	
5	QPSK	1	0	22.52	22.56	22.54	23.5
5	QPSK	1	12	22.81	22.86	22.83	
5	QPSK	1	24	22.82	22.82	22.81	
5	QPSK	12	0	22.70	22.68	22.63	23.5
5	QPSK	12	7	22.78	22.81	22.76	
5	QPSK	12	13	22.74	22.77	22.69	
5	QPSK	25	0	22.74	22.76	22.69	23.5
5	16QAM	1	0	22.65	22.69	22.64	
5	16QAM	1	12	22.81	22.91	22.82	
5	16QAM	1	24	22.78	22.83	22.75	23
5	16QAM	12	0	22.16	22.16	22.11	
5	16QAM	12	7	22.27	22.28	22.24	
5	16QAM	12	13	22.21	22.24	22.21	23
5	16QAM	25	0	22.27	22.30	22.26	
5	64QAM	1	0	21.94	21.99	21.91	
5	64QAM	1	12	22.05	22.10	22.08	22
5	64QAM	1	24	22.06	22.08	22.08	
5	64QAM	12	0	21.26	21.24	21.20	
5	64QAM	12	7	21.31	21.34	21.27	22
5	64QAM	12	13	21.29	21.28	21.26	
5	64QAM	25	0	21.29	21.31	21.26	



Band 41_Ant 3											
BW (MHz)	Modulation	RB Size	RB Offset	for IC Power Low Ch / Freq	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				39790	39790	40185	40620	41055	41490		
Frequency (MHz)				2510	2508	2499.5	2593	2638.5	2690		
20	QPSK	1	0	21.40	21.46	21.30	21.17	21.22	20.98	22	
20	QPSK	1	49	21.42	21.46	21.47	21.57	21.46	21.37		
20	QPSK	1	99	21.39	21.40	21.45	21.31	21.05	21.27		
20	QPSK	50	0	21.51	21.52	21.41	21.45	21.43	21.28		
20	QPSK	50	24	21.50	21.51	21.51	21.68	21.48	21.39		
20	QPSK	50	50	21.47	21.47	21.48	21.61	21.40	21.47	22	
20	QPSK	100	0	21.41	21.43	21.38	21.55	21.38	21.32		
20	16QAM	1	0	21.60	21.64	21.55	21.30	21.38	21.11		
20	16QAM	1	49	21.50	21.53	21.52	21.66	21.61	21.47		
20	16QAM	1	99	21.48	21.50	21.59	21.42	21.15	21.42		
20	16QAM	50	0	21.52	21.55	21.41	21.46	21.48	21.30	22	
20	16QAM	50	24	21.51	21.54	21.53	21.67	21.53	21.44		
20	16QAM	50	50	21.48	21.49	21.51	21.62	21.45	21.51		
20	16QAM	100	0	21.44	21.45	21.41	21.57	21.41	21.36		
20	64QAM	1	0	21.37	21.38	21.31	21.02	21.04	20.81		
20	64QAM	1	49	21.26	21.28	21.27	21.45	21.30	21.20	22	
20	64QAM	1	99	21.25	21.23	21.44	21.18	20.94	21.13		
20	64QAM	50	0	21.02	21.04	20.94	20.99	20.95	20.79		
20	64QAM	50	24	21.00	21.03	21.06	21.22	21.00	20.93		
20	64QAM	50	50	20.98	20.99	21.04	21.16	20.93	20.99		
20	64QAM	100	0	20.92	20.96	20.95	21.10	20.91	20.85	21.5	
Channel				39785	39725	40173	40620	41068	41515		
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.45	21.47	21.16	21.34	21.28	21.08	22	
15	QPSK	1	37	21.42	21.43	21.38	21.57	21.41	21.35		
15	QPSK	1	74	21.40	21.43	21.16	21.45	21.22	21.31		
15	QPSK	36	0	21.53	21.55	21.38	21.51	21.47	21.30		
15	QPSK	36	20	21.54	21.57	21.52	21.67	21.58	21.47		
15	QPSK	36	39	21.49	21.51	21.43	21.64	21.46	21.47	22	
15	QPSK	75	0	21.46	21.49	21.43	21.61	21.51	21.35		
15	16QAM	1	0	21.61	21.63	21.35	21.47	21.54	21.28		
15	16QAM	1	37	21.50	21.50	21.51	21.66	21.62	21.50		
15	16QAM	1	74	21.55	21.56	21.43	21.57	21.39	21.50		
15	16QAM	36	0	21.48	21.52	21.34	21.45	21.45	21.28	22	
15	16QAM	36	20	21.50	21.50	21.47	21.64	21.55	21.47		
15	16QAM	36	39	21.45	21.46	21.41	21.61	21.48	21.47		
15	16QAM	75	0	21.49	21.51	21.47	21.63	21.55	21.38		
15	64QAM	1	0	21.34	21.41	21.10	21.17	21.24	20.98		
15	64QAM	1	37	21.30	21.31	21.36	21.46	21.38	21.28	22	
15	64QAM	1	74	21.52	21.30	21.24	21.32	21.17	21.25		
15	64QAM	36	0	21.00	21.04	20.92	21.03	20.98	20.82		
15	64QAM	36	20	21.03	21.04	21.08	21.22	21.10	21.03		
15	64QAM	36	39	20.97	21.03	20.98	21.20	20.98	20.99		
15	64QAM	75	0	20.98	20.98	21.00	21.14	21.04	20.87	21.5	
Channel				39740	39700	40160	40620	41080	41540		
Frequency (MHz)				25025	25031	25447	2593	2639	2685		
10	QPSK	1	0	21.51	21.53	21.08	21.26	21.29	21.11	22	
10	QPSK	1	25	21.36	21.53	21.35	21.57	21.43	21.39		
10	QPSK	1	49	21.47	21.39	21.11	21.41	21.18	21.29		
10	QPSK	25	0	21.48	21.48	21.40	21.50	21.39	21.38		
10	QPSK	25	12	21.62	21.59	21.52	21.61	21.55	21.35		
10	QPSK	25	25	21.43	21.59	21.49	21.65	21.40	21.43	22	
10	QPSK	50	0	21.38	21.49	21.50	21.54	21.48	21.28		
10	16QAM	1	0	21.63	21.61	21.25	21.46	21.63	21.24		
10	16QAM	1	25	21.52	21.40	21.61	21.65	21.59	21.55		
10	16QAM	1	49	21.65	21.46	21.52	21.64	21.41	21.43		
10	16QAM	25	0	21.52	21.57	21.28	21.42	21.40	21.37	22	
10	16QAM	25	12	21.60	21.54	21.56	21.57	21.51	21.50		
10	16QAM	25	25	21.50	21.49	21.44	21.64	21.49	21.47		
10	16QAM	50	0	21.44	21.41	21.52	21.65	21.55	21.32		
10	64QAM	1	0	21.26	21.47	21.07	21.27	21.24	21.01		
10	64QAM	1	25	21.38	21.35	21.32	21.54	21.41	21.33	22	
10	64QAM	1	49	21.29	21.21	21.18	21.26	21.24	21.23		
10	64QAM	25	0	21.01	21.11	20.89	20.94	21.04	20.78		
10	64QAM	25	12	21.07	21.08	21.16	21.24	21.14	20.96		
10	64QAM	25	25	21.01	20.93	20.94	21.25	20.90	21.03		
10	64QAM	50	0	20.88	21.07	21.03	21.17	20.98	20.86	21.5	
Channel				39715	39675	40148	40620	41093	41565		
Frequency (MHz)				25025	2498.5	25458	2593	2640.30	2687.5		
5	QPSK	1	0	21.30	21.31	21.22	21.32	21.25	21.19	22	
5	QPSK	1	12	21.24	21.22	21.18	21.36	21.28	21.21		
5	QPSK	1	24	21.26	21.22	21.25	21.33	21.27	21.14		
5	QPSK	12	0	21.35	21.37	21.30	21.43	21.31	21.32		
5	QPSK	12	7	21.38	21.39	21.37	21.50	21.34	21.33		
5	QPSK	12	13	21.35	21.40	21.37	21.49	21.35	21.29	22	
5	QPSK	25	0	21.33	21.35	21.33	21.48	21.29	21.27		
5	16QAM	1	0	21.39	21.39	21.31	21.45	21.33	21.32		
5	16QAM	1	12	21.44	21.42	21.36	21.58	21.48	21.41		
5	16QAM	1	24	21.38	21.43	21.37	21.53	21.40	21.29		
5	16QAM	12	0	21.34	21.37	21.30	21.44	21.29	21.27	22	
5	16QAM	12	7	21.36	21.37	21.35	21.50	21.32	21.31		
5	16QAM	12	13	21.30	21.37	21.30	21.48	21.33	21.28		
5	16QAM	25	0	21.36	21.38	21.36	21.53	21.36	21.32		
5	64QAM	1	0	21.17	21.18	21.14	21.25	21.13	21.10		
5	64QAM	1	12	21.13	21.16	21.27	21.32	21.25	21.14	22	
5	64QAM	1	24	21.16	21.18	21.23	21.32	21.23	21.08		
5	64QAM	12	0	20.91	20.97	20.85	20.97	20.88	20.85		
5	64QAM	12	7	20.94	20.96	20.93	21.03	20.86	20.84		
5	64QAM	12	13	20.88	20.90	20.91	21.03	20.92	20.79		
5	64QAM	25	0	20.94	20.94	20.93	21.02	20.86	20.85	21.5	



Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	for IC Power Low Ch / Freq	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				38790	39750	40185	40620	41055	41490	
Frequency (MHz)				2510	2506	2495	2593	2634.5	2690	
20	QPSK	1	0	21.35	21.37	21.33	21.09	21.10	20.82	22
20	QPSK	1	49	21.26	21.32	21.30	21.45	21.32	21.23	
20	QPSK	1	99	21.27	21.26	21.35	21.17	20.92	21.14	
20	QPSK	50	0	21.50	21.54	21.39	21.43	21.41	21.23	
20	QPSK	50	24	21.50	21.53	21.50	21.63	21.48	21.38	22
20	QPSK	50	50	21.44	21.46	21.47	21.61	21.39	21.43	
20	QPSK	100	0	21.42	21.44	21.39	21.56	21.38	21.29	
20	16QAM	1	0	21.73	21.75	21.71	21.41	21.51	21.22	
20	16QAM	1	49	21.62	21.64	21.72	21.79	21.76	21.62	22
20	16QAM	1	99	21.66	21.65	21.76	21.52	21.34	21.56	
20	16QAM	50	0	21.51	21.55	21.38	21.46	21.46	21.28	
20	16QAM	50	24	21.51	21.53	21.49	21.68	21.51	21.43	
20	16QAM	50	50	21.49	21.48	21.51	21.61	21.44	21.51	22
20	16QAM	100	0	21.44	21.43	21.39	21.57	21.42	21.33	
20	64QAM	1	0	21.62	21.61	21.56	21.23	21.32	21.03	
20	64QAM	1	49	21.50	21.54	21.51	21.68	21.62	21.43	
20	64QAM	1	99	21.54	21.49	21.68	21.40	21.15	21.38	22
20	64QAM	50	0	21.55	21.55	21.42	21.47	21.43	21.27	
20	64QAM	50	24	21.54	21.57	21.53	21.70	21.48	21.43	
20	64QAM	50	50	21.51	21.54	21.51	21.62	21.42	21.47	
20	64QAM	100	0	21.47	21.47	21.44	21.59	21.39	21.33	
Channel				38765	39725	40173	40620	41068	41515	Limit-up limit (dBm)
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.39	21.40	21.09	21.25	21.24	21.00	22
15	QPSK	1	37	21.32	21.37	21.28	21.46	21.34	21.28	
15	QPSK	1	74	21.33	21.33	21.10	21.37	21.10	21.25	
15	QPSK	36	0	21.48	21.55	21.34	21.45	21.42	21.26	
15	QPSK	36	20	21.49	21.50	21.49	21.63	21.52	21.48	22
15	QPSK	36	39	21.46	21.48	21.41	21.61	21.42	21.42	
15	QPSK	75	0	21.45	21.45	21.43	21.57	21.45	21.30	
15	16QAM	1	0	21.64	21.66	21.46	21.54	21.62	21.38	
15	16QAM	1	37	21.62	21.67	21.71	21.78	21.74	21.62	22
15	16QAM	1	74	21.66	21.65	21.51	21.70	21.52	21.58	
15	16QAM	36	0	21.46	21.50	21.31	21.42	21.44	21.26	
15	16QAM	36	20	21.46	21.49	21.44	21.61	21.55	21.45	
15	16QAM	36	39	21.45	21.40	21.40	21.59	21.43	21.45	22
15	16QAM	75	0	21.48	21.49	21.42	21.56	21.49	21.34	
15	64QAM	1	0	21.57	21.59	21.35	21.39	21.41	21.17	
15	64QAM	1	37	21.55	21.60	21.63	21.64	21.58	21.50	
15	64QAM	1	74	21.51	21.52	21.64	21.51	21.34	21.46	22
15	64QAM	36	0	21.53	21.53	21.36	21.47	21.44	21.29	
15	64QAM	36	20	21.53	21.55	21.50	21.67	21.56	21.46	
15	64QAM	36	39	21.52	21.53	21.42	21.62	21.42	21.44	
15	64QAM	75	0	21.48	21.51	21.43	21.60	21.48	21.32	Limit-up limit (dBm)
Channel				38740	39700	40160	40620	41080	41540	
Frequency (MHz)				2492	2493	2547	2593	2639	2685	
10	QPSK	1	0	21.19	21.21	20.87	20.97	20.89	20.81	22
10	QPSK	1	25	21.07	21.10	21.10	21.22	21.15	21.03	
10	QPSK	1	49	21.17	21.15	20.89	20.99	20.98	20.83	
10	QPSK	25	0	21.29	21.30	21.15	21.30	21.20	21.13	
10	QPSK	25	12	21.29	21.30	21.33	21.46	21.29	21.29	22
10	QPSK	25	25	21.27	21.30	21.21	21.37	21.25	21.17	
10	QPSK	50	0	21.22	21.27	21.24	21.36	21.22	21.19	
10	16QAM	1	0	21.51	21.54	21.18	21.39	21.32	21.19	
10	16QAM	1	25	21.41	21.45	21.48	21.62	21.54	21.42	22
10	16QAM	1	49	21.46	21.47	21.29	21.37	21.27	21.17	
10	16QAM	25	0	21.31	21.35	21.31	21.34	21.25	21.17	
10	16QAM	25	12	21.35	21.38	21.37	21.52	21.34	21.35	
10	16QAM	25	25	21.29	21.31	21.25	21.42	21.32	21.20	22
10	16QAM	50	0	21.26	21.30	21.26	21.45	21.28	21.25	
10	64QAM	1	0	21.39	21.45	21.11	21.23	21.16	21.08	
10	64QAM	1	25	21.43	21.41	21.47	21.55	21.50	21.35	
10	64QAM	1	49	21.38	21.38	21.22	21.29	21.19	21.10	22
10	64QAM	25	0	21.37	21.40	21.28	21.37	21.30	21.21	
10	64QAM	25	12	21.37	21.44	21.42	21.54	21.38	21.37	
10	64QAM	25	25	21.36	21.40	21.31	21.46	21.36	21.26	
10	64QAM	50	0	21.25	21.30	21.28	21.42	21.24	21.24	Limit-up limit (dBm)
Channel				38715	38675	40148	40620	41093	41565	
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	21.19	21.22	21.12	21.20	21.10	21.06	22
5	QPSK	1	12	21.15	21.14	21.12	21.26	21.18	21.10	
5	QPSK	1	24	21.14	21.15	21.16	21.24	21.14	21.03	
5	QPSK	12	0	21.33	21.37	21.26	21.40	21.28	21.28	
5	QPSK	12	7	21.36	21.38	21.34	21.48	21.31	21.26	22
5	QPSK	12	13	21.34	21.33	21.33	21.46	21.34	21.23	
5	QPSK	25	0	21.32	21.32	21.27	21.44	21.24	21.24	
5	16QAM	1	0	21.48	21.49	21.31	21.54	21.39	21.40	
5	16QAM	1	12	21.47	21.47	21.33	21.60	21.45	21.39	22
5	16QAM	1	24	21.47	21.51	21.37	21.60	21.44	21.37	
5	16QAM	12	0	21.36	21.37	21.32	21.44	21.34	21.33	
5	16QAM	12	7	21.37	21.43	21.35	21.51	21.35	21.32	
5	16QAM	12	13	21.35	21.39	21.33	21.49	21.38	21.27	22
5	16QAM	25	0	21.36	21.38	21.35	21.53	21.35	21.33	
5	64QAM	1	0	21.38	21.38	21.30	21.41	21.29	21.27	
5	64QAM	1	12	21.38	21.39	21.39	21.48	21.37	21.31	
5	64QAM	1	24	21.36	21.39	21.35	21.49	21.37	21.29	22
5	64QAM	12	0	21.39	21.40	21.31	21.44	21.34	21.32	
5	64QAM	12	7	21.40	21.42	21.39	21.51	21.39	21.37	
5	64QAM	12	13	21.35	21.40	21.37	21.50	21.38	21.30	
5	64QAM	25	0	21.36	21.38	21.36	21.49	21.34	21.31	

Band 38_Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)
Channel				37650	38000	38150	
Frequency (MHz)				2560	2595	2630	
20	QPSK	1	0	20.36	20.41	20.39	21
20	QPSK	1	49	20.43	20.47	20.43	
20	QPSK	1	99	20.46	20.45	20.41	
20	QPSK	50	0	20.32	20.30	20.28	
20	QPSK	50	24	20.49	20.49	20.40	
20	QPSK	50	50	20.43	20.41	20.37	21
20	QPSK	100	0	20.41	20.39	20.28	
20	16QAM	1	0	20.56	20.55	20.56	
20	16QAM	1	49	20.57	20.55	20.56	
20	16QAM	1	99	20.57	20.58	20.59	
20	16QAM	50	0	20.33	20.32	20.30	21
20	16QAM	50	24	20.54	20.52	20.41	
20	16QAM	50	50	20.46	20.45	20.40	
20	16QAM	100	0	20.43	20.42	20.31	
20	64QAM	1	0	20.29	20.29	20.28	
20	64QAM	1	49	20.32	20.29	20.27	21
20	64QAM	1	99	20.34	20.37	20.40	
20	64QAM	50	0	20.34	20.34	20.33	
20	64QAM	50	24	20.53	20.54	20.43	
20	64QAM	50	50	20.49	20.47	20.42	
20	64QAM	100	0	20.44	20.45	20.33	
Channel				37625	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	20.34	20.36	20.32	21
15	QPSK	1	37	20.38	20.40	20.33	
15	QPSK	1	74	20.41	20.41	20.34	
15	QPSK	36	0	20.35	20.34	20.30	
15	QPSK	36	20	20.53	20.49	20.38	
15	QPSK	36	39	20.44	20.41	20.38	21
15	QPSK	75	0	20.43	20.42	20.31	
15	16QAM	1	0	20.53	20.54	20.49	
15	16QAM	1	37	20.49	20.48	20.49	
15	16QAM	1	74	20.56	20.57	20.54	
15	16QAM	36	0	20.30	20.29	20.27	21
15	16QAM	36	20	20.49	20.47	20.36	
15	16QAM	36	39	20.42	20.39	20.36	
15	16QAM	75	0	20.47	20.44	20.33	
15	64QAM	1	0	20.25	20.26	20.16	
15	64QAM	1	37	20.31	20.29	20.29	21
15	64QAM	1	74	20.31	20.30	20.34	
15	64QAM	36	0	20.36	20.36	20.33	
15	64QAM	36	20	20.56	20.54	20.41	
15	64QAM	36	39	20.46	20.47	20.43	
15	64QAM	75	0	20.48	20.45	20.33	
Channel				37600	38000	38200	
Frequency (MHz)				2572.5	2595	2615	
10	QPSK	1	0	20.41	20.34	20.42	21
10	QPSK	1	25	20.31	20.43	20.26	
10	QPSK	1	49	20.37	20.43	20.32	
10	QPSK	25	0	20.31	20.24	20.28	
10	QPSK	25	12	20.50	20.43	20.41	
10	QPSK	25	25	20.47	20.37	20.35	21
10	QPSK	50	0	20.36	20.42	20.30	
10	16QAM	1	0	20.51	20.45	20.40	
10	16QAM	1	25	20.53	20.43	20.47	
10	16QAM	1	49	20.52	20.53	20.51	
10	16QAM	25	0	20.32	20.37	20.17	21
10	16QAM	25	12	20.47	20.42	20.33	
10	16QAM	25	25	20.34	20.49	20.37	
10	16QAM	50	0	20.56	20.54	20.40	
10	64QAM	1	0	20.17	20.21	20.16	
10	64QAM	1	25	20.25	20.39	20.30	21
10	64QAM	1	49	20.23	20.27	20.39	
10	64QAM	25	0	20.30	20.30	20.28	
10	64QAM	25	12	20.56	20.44	20.57	
10	64QAM	25	25	20.45	20.44	20.37	
10	64QAM	50	0	20.46	20.49	20.33	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	20.35	20.37	20.27	21
5	QPSK	1	12	20.41	20.47	20.30	
5	QPSK	1	24	20.47	20.44	20.39	
5	QPSK	12	0	20.39	20.34	20.32	
5	QPSK	12	7	20.54	20.49	20.35	
5	QPSK	12	13	20.46	20.49	20.38	21
5	QPSK	25	0	20.30	20.46	20.40	
5	16QAM	1	0	20.55	20.50	20.57	
5	16QAM	1	12	20.55	20.57	20.44	
5	16QAM	1	24	20.53	20.52	20.55	
5	16QAM	12	0	20.30	20.21	20.34	21
5	16QAM	12	7	20.54	20.37	20.44	
5	16QAM	12	13	20.41	20.38	20.37	
5	16QAM	25	0	20.56	20.51	20.33	
5	64QAM	1	0	20.35	20.13	20.13	
5	64QAM	1	12	20.22	20.25	20.26	21
5	64QAM	1	24	20.37	20.35	20.37	
5	64QAM	12	0	20.37	20.40	20.24	
5	64QAM	12	7	20.52	20.57	20.38	
5	64QAM	12	13	20.58	20.45	20.44	
5	64QAM	25	0	20.55	20.38	20.43	



Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	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				38790	39750	40185	40620	41055	41490	
Frequency (MHz)				2510	2508	2549.5	2593	2634.5	2678	
20	QPSK	1	0	19.91	19.92	19.91	19.88	19.73	19.49	20.5
20	QPSK	1	49	19.95	19.94	19.97	20.08	19.99	19.90	
20	QPSK	1	99	19.89	19.88	19.97	19.81	19.55	19.79	
20	QPSK	50	0	20.00	20.02	19.91	19.96	19.95	19.78	
20	QPSK	50	24	20.00	20.02	20.00	20.17	20.00	19.92	
20	QPSK	50	50	19.96	19.97	20.01	20.10	19.93	19.98	20.5
20	QPSK	100	0	19.91	19.93	19.90	20.07	19.88	19.84	
20	16QAM	1	0	20.07	20.10	20.08	19.81	19.86	19.62	
20	16QAM	1	49	19.99	20.02	20.04	20.14	20.12	19.96	
20	16QAM	1	99	20.00	20.00	20.12	19.88	19.70	19.92	
20	16QAM	50	0	20.02	20.07	19.95	20.20	19.97	19.92	20.5
20	16QAM	50	24	20.05	20.04	20.03	20.20	20.03	19.96	
20	16QAM	50	50	20.00	19.99	20.02	20.14	19.95	20.01	
20	16QAM	100	0	19.96	19.97	19.93	20.10	19.93	19.87	
20	64QAM	1	0	19.88	19.93	19.81	19.49	19.55	19.30	
20	64QAM	1	49	19.77	19.78	19.70	19.84	19.89	19.73	20.5
20	64QAM	1	99	19.76	19.73	20.03	19.64	19.47	19.68	
20	64QAM	50	0	20.03	20.06	19.93	19.88	19.97	19.78	
20	64QAM	50	24	20.05	20.07	20.03	20.19	20.02	19.94	
20	64QAM	50	50	20.00	20.02	20.01	20.14	19.94	19.99	
20	64QAM	100	0	19.95	19.98	19.93	20.11	19.92	19.85	20.5
Channel				38765	39725	40173	40620	41068	41515	
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.89	19.95	19.61	19.78	19.80	19.56	20.5
15	QPSK	1	37	19.87	19.91	19.76	19.89	19.90	19.83	
15	QPSK	1	74	19.87	19.86	19.58	19.82	19.68	19.81	
15	QPSK	36	0	19.99	20.04	19.84	19.98	19.95	19.81	
15	QPSK	36	20	19.99	20.01	20.01	20.15	20.05	19.99	
15	QPSK	36	39	19.95	19.96	19.91	20.11	19.95	19.97	20.5
15	QPSK	75	0	19.84	19.98	19.91	20.09	19.98	19.86	
15	16QAM	1	0	20.06	20.13	19.91	19.82	19.89	19.75	
15	16QAM	1	37	19.97	19.96	20.08	20.15	20.12	20.00	
15	16QAM	1	74	20.00	20.01	19.94	20.02	19.89	20.03	
15	16QAM	36	0	19.98	20.02	19.83	19.95	19.94	19.76	20.5
15	16QAM	36	20	19.96	20.00	19.86	20.12	20.02	19.95	
15	16QAM	36	39	19.94	19.96	19.90	20.10	19.93	19.95	
15	16QAM	75	0	19.97	19.99	19.95	20.12	20.03	19.90	
15	64QAM	1	0	19.85	19.87	19.56	19.66	19.70	19.48	
15	64QAM	1	37	19.78	19.80	19.85	19.92	19.87	19.75	20.5
15	64QAM	1	74	19.75	19.76	19.74	19.81	19.82	19.77	
15	64QAM	36	0	20.02	20.05	19.85	19.89	19.96	19.81	
15	64QAM	36	20	20.03	20.05	19.99	20.18	20.06	20.01	
15	64QAM	36	39	20.01	20.02	19.91	20.14	19.96	19.97	
15	64QAM	75	0	19.99	20.02	19.94	20.10	20.00	19.85	20.5
Channel				38740	39700	40160	40620	41080	41540	
Frequency (MHz)				2503	2500	2547	2593	2639	2685	
10	QPSK	1	0	19.81	20.04	19.67	19.88	19.75	19.58	20.5
10	QPSK	1	25	19.82	19.94	19.70	20.01	19.93	19.84	
10	QPSK	1	49	19.81	19.84	19.54	19.84	19.72	19.90	
10	QPSK	25	0	19.91	20.02	19.80	19.93	20.05	19.75	
10	QPSK	25	12	19.95	20.04	19.89	20.20	19.97	19.91	
10	QPSK	25	25	19.99	19.94	19.84	20.04	19.92	19.89	20.5
10	QPSK	50	0	19.89	20.08	19.93	20.03	19.99	19.87	
10	16QAM	1	0	20.07	20.07	19.86	19.87	20.05	19.77	
10	16QAM	1	25	19.96	19.96	20.00	20.07	20.11	20.03	
10	16QAM	1	49	19.92	20.07	19.93	20.05	19.94	20.09	
10	16QAM	25	0	20.02	20.05	19.88	19.92	19.99	19.83	20.5
10	16QAM	25	12	19.99	19.92	20.01	20.07	19.97	19.93	
10	16QAM	25	25	19.96	19.95	19.97	20.12	19.87	20.04	
10	16QAM	50	0	19.90	20.04	20.05	20.19	20.03	19.99	
10	64QAM	1	0	19.81	19.88	19.52	19.65	19.71	19.42	
10	64QAM	1	25	19.76	19.89	19.92	19.96	19.95	19.83	20.5
10	64QAM	1	49	19.82	19.67	19.70	19.89	19.58	19.81	
10	64QAM	25	0	19.94	20.03	19.75	20.04	19.96	19.86	
10	64QAM	25	12	20.12	20.12	20.06	20.19	20.15	19.95	
10	64QAM	25	25	19.92	19.96	19.96	20.10	19.90	19.91	
10	64QAM	50	0	20.05	19.92	19.99	20.00	20.04	19.87	20.5
Channel				38715	38675	40148	40620	41093	41565	
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	19.84	19.86	19.66	19.74	19.67	19.46	20.5
5	QPSK	1	12	19.91	19.87	19.75	20.03	19.94	19.86	
5	QPSK	1	24	19.78	19.87	19.49	19.95	19.71	19.87	
5	QPSK	12	0	19.91	20.02	19.67	19.96	20.04	19.90	
5	QPSK	12	7	19.94	20.05	20.05	20.12	20.03	20.04	
5	QPSK	12	13	19.87	20.06	19.63	20.11	19.91	19.97	20.5
5	QPSK	25	0	20.04	19.94	19.95	20.15	19.94	19.83	
5	16QAM	1	0	20.16	20.12	19.97	19.88	19.94	19.67	
5	16QAM	1	12	19.89	20.01	20.00	20.12	20.10	20.00	
5	16QAM	1	24	20.04	20.02	20.00	20.03	19.81	19.98	
5	16QAM	12	0	20.06	19.95	19.89	19.97	20.01	19.84	20.5
5	16QAM	12	7	19.94	20.03	19.94	20.14	19.92	19.96	
5	16QAM	12	13	19.97	20.06	19.92	20.07	20.00	19.88	
5	16QAM	25	0	19.94	19.96	19.95	20.19	19.97	19.95	
5	64QAM	1	0	19.85	19.92	19.66	19.71	19.70	19.52	
5	64QAM	1	12	19.81	19.78	19.77	19.84	19.94	19.70	20.5
5	64QAM	1	24	19.70	19.74	19.69	19.72	19.64	19.75	
5	64QAM	12	0	20.02	19.95	19.79	20.02	20.06	19.74	
5	64QAM	12	7	20.08	20.11	19.92	20.15	20.03	19.92	
5	64QAM	12	13	20.03	20.09	19.86	20.05	19.95	20.07	
5	64QAM	25	0	19.91	20.06	19.91	20.12	19.91	19.76	



Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	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				38790	39750	40185	40620	41055	41490	
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.84	19.87	19.83	19.80	19.83	19.86	20.5
20	QPSK	1	49	19.76	19.80	19.87	19.95	19.87	19.77	
20	QPSK	1	99	19.81	19.79	19.89	19.69	19.44	19.69	
20	QPSK	50	0	20.02	20.04	19.91	19.95	19.93	19.78	
20	QPSK	50	24	20.01	20.02	20.03	20.15	20.00	19.92	20.5
20	QPSK	50	50	19.96	19.97	20.00	20.09	19.91	19.97	
20	QPSK	100	0	19.92	19.95	19.90	20.06	19.89	19.83	
20	16QAM	1	0	20.24	20.36	20.41	19.93	20.01	19.76	20.5
20	16QAM	1	49	20.16	20.26	20.18	20.35	20.22	20.13	
20	16QAM	1	99	20.11	20.16	20.24	20.06	19.84	20.03	
20	16QAM	50	0	20.05	20.08	19.94	19.29	19.07	19.80	
20	16QAM	50	24	20.03	20.06	20.05	20.18	20.04	19.95	20.5
20	16QAM	50	50	20.00	20.02	20.03	20.12	19.94	20.02	
20	16QAM	100	0	19.96	19.97	19.95	20.10	19.93	19.86	
20	64QAM	1	0	20.14	20.15	20.07	19.78	19.80	19.55	20.5
20	64QAM	1	49	20.03	20.01	20.01	20.18	20.09	19.86	
20	64QAM	1	99	20.00	20.00	20.40	19.80	19.68	19.91	
20	64QAM	50	0	20.03	20.06	19.92	20.00	19.98	19.78	
20	64QAM	50	24	20.06	20.07	20.05	20.22	20.02	19.93	20.5
20	64QAM	50	50	20.00	20.01	20.03	20.13	19.93	20.00	
20	64QAM	100	0	19.99	19.99	19.94	20.09	19.92	19.84	
Channel				38765	39725	40173	40620	41068	41515	
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.80	19.91	19.58	19.79	19.76	19.55	20.5
15	QPSK	1	37	19.87	19.88	19.75	19.97	19.87	19.80	
15	QPSK	1	74	19.85	19.87	19.60	19.85	19.63	19.79	
15	QPSK	36	0	20.01	20.02	19.85	19.98	19.93	19.80	
15	QPSK	36	20	20.03	20.03	19.98	20.17	20.07	19.97	20.5
15	QPSK	36	39	19.98	19.96	19.93	20.11	19.95	19.97	
15	QPSK	75	0	19.96	19.99	19.91	20.12	19.99	19.87	
15	16QAM	1	0	20.26	20.31	20.03	20.10	20.14	19.95	
15	16QAM	1	37	20.22	20.22	20.40	20.36	20.26	20.15	20.5
15	16QAM	1	74	20.14	20.17	20.11	20.17	20.03	20.15	
15	16QAM	36	0	20.00	20.05	19.87	19.96	19.94	19.79	
15	16QAM	36	20	19.99	20.03	19.98	20.15	20.05	19.96	
15	16QAM	36	39	19.98	19.98	19.92	20.12	19.98	19.97	20.5
15	16QAM	75	0	20.01	20.01	19.98	20.13	20.04	19.88	
15	64QAM	1	0	20.11	20.13	19.82	19.92	19.96	19.69	
15	64QAM	1	37	20.07	20.09	20.14	20.19	20.11	20.02	
15	64QAM	1	74	20.01	20.04	20.00	20.02	19.88	20.00	20.5
15	64QAM	36	0	20.04	20.05	19.88	20.01	19.98	19.91	
15	64QAM	36	20	20.06	20.07	20.02	20.18	20.08	20.00	
15	64QAM	36	39	20.03	20.05	19.94	20.13	19.97	19.95	
15	64QAM	75	0	20.00	20.01	19.94	20.12	19.99	19.86	
Channel				38740	39700	40160	40620	41080	41540	
Frequency (MHz)				2492	2493	2547	2593	2639	2685	
10	QPSK	1	0	19.71	19.65	19.39	19.50	19.42	19.35	20.5
10	QPSK	1	25	19.61	19.62	19.66	19.75	19.67	19.61	
10	QPSK	1	49	19.67	19.69	19.54	19.54	19.50	19.42	
10	QPSK	25	0	19.84	19.85	19.67	19.63	19.74	19.67	
10	QPSK	25	12	19.84	19.85	19.84	20.00	19.81	19.83	20.5
10	QPSK	25	25	19.81	19.82	19.73	19.89	19.78	19.70	
10	QPSK	50	0	19.77	19.78	19.79	19.89	19.75	19.75	
10	16QAM	1	0	20.06	20.09	19.74	19.86	19.81	19.74	
10	16QAM	1	25	20.01	20.02	20.04	20.12	20.01	19.96	20.5
10	16QAM	1	49	19.97	20.03	19.76	19.89	19.79	19.70	
10	16QAM	25	0	19.87	19.91	19.73	19.84	19.83	19.69	
10	16QAM	25	12	19.88	19.91	19.92	20.04	19.90	19.88	
10	16QAM	25	25	19.85	19.83	19.80	19.91	19.85	19.74	20.5
10	16QAM	50	0	19.82	19.85	19.83	19.95	19.79	19.76	
10	64QAM	1	0	19.96	20.02	19.66	19.72	19.67	19.62	
10	64QAM	1	25	19.96	19.97	20.05	20.12	20.04	19.93	
10	64QAM	1	49	19.89	19.92	19.76	19.80	19.71	19.67	20.5
10	64QAM	25	0	19.93	19.94	19.79	19.92	19.79	19.76	
10	64QAM	25	12	19.96	19.96	19.95	20.07	19.91	19.96	
10	64QAM	25	25	19.89	19.92	19.83	19.96	19.86	19.83	
10	64QAM	50	0	19.83	19.84	19.81	19.92	19.76	19.80	
Channel				38715	38675	40148	40620	41093	41565	
Frequency (MHz)				2492.5	2488.5	2543.8	2593	2640.30	2687.5	
5	QPSK	1	0	19.75	19.71	19.68	19.76	19.66	19.67	20.5
5	QPSK	1	12	19.68	19.69	19.68	19.80	19.71	19.67	
5	QPSK	1	24	19.67	19.69	19.72	19.78	19.71	19.60	
5	QPSK	12	0	19.85	19.86	19.80	19.90	19.84	19.82	
5	QPSK	12	7	19.88	19.91	19.88	20.03	19.84	19.83	20.5
5	QPSK	12	13	19.87	19.86	19.86	19.98	19.85	19.77	
5	QPSK	25	0	19.84	19.83	19.81	19.95	19.79	19.76	
5	16QAM	1	0	20.01	20.07	19.84	20.02	19.92	19.90	
5	16QAM	1	12	19.95	19.95	19.84	20.07	19.97	19.85	20.5
5	16QAM	1	24	20.02	20.04	19.89	20.09	19.96	19.84	
5	16QAM	12	0	19.92	19.93	19.86	19.94	19.86	19.85	
5	16QAM	12	7	19.93	19.94	19.92	20.03	19.86	19.87	
5	16QAM	12	13	19.92	19.92	19.88	20.02	19.91	19.84	20.5
5	16QAM	25	0	19.92	19.90	19.92	20.04	19.88	19.86	
5	64QAM	1	0	19.95	19.93	19.81	19.92	19.86	19.85	
5	64QAM	1	12	19.91	19.92	19.95	20.02	19.92	19.89	
5	64QAM	1	24	19.93	19.96	19.89	20.00	19.93	19.82	20.5
5	64QAM	12	0	19.95	19.95	19.89	19.95	19.86	19.88	
5	64QAM	12	7	19.94	19.96	19.93	20.05	19.92	19.90	
5	64QAM	12	13	19.89	19.94	19.92	20.04	19.89	19.85	
5	64QAM	25	0	19.90	19.90	19.92	20.02	19.88	19.87	

Band 38_Ant 3							
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Middle Ch / Freq.	Power High Ch / Freq.	Tune-up limit (dBm)
Channel				37650	38000	38150	21.5
Frequency (MHz)				2560	2595	2630	
20	QPSK	1	0	20.36	20.41	20.39	21.5
20	QPSK	1	49	20.43	20.47	20.43	
20	QPSK	1	99	20.46	20.45	20.41	
20	QPSK	50	0	20.32	20.30	20.28	
20	QPSK	50	24	20.50	20.49	20.40	
20	QPSK	50	50	20.43	20.41	20.37	
20	QPSK	100	0	20.41	20.39	20.28	21.5
20	16QAM	1	0	20.56	20.55	20.56	
20	16QAM	1	49	20.57	20.55	20.56	
20	16QAM	1	99	20.57	20.58	20.59	
20	16QAM	50	0	20.33	20.32	20.30	
20	16QAM	50	24	20.54	20.52	20.41	
20	16QAM	50	50	20.46	20.45	20.40	21.5
20	16QAM	100	0	20.43	20.42	20.31	
20	64QAM	1	0	20.29	20.29	20.28	
20	64QAM	1	49	20.32	20.29	20.27	
20	64QAM	1	99	20.34	20.37	20.40	
20	64QAM	50	0	20.34	20.34	20.33	
20	64QAM	50	24	20.53	20.54	20.43	21.5
20	64QAM	50	50	20.49	20.47	20.42	
20	64QAM	100	0	20.44	20.45	20.33	
Channel				37625	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	20.34	20.36	20.32	21.5
15	QPSK	1	37	20.38	20.40	20.33	
15	QPSK	1	74	20.41	20.41	20.34	
15	QPSK	36	0	20.35	20.34	20.30	
15	QPSK	36	20	20.53	20.49	20.38	
15	QPSK	36	39	20.44	20.41	20.38	
15	QPSK	75	0	20.43	20.42	20.31	21.5
15	16QAM	1	0	20.53	20.54	20.49	
15	16QAM	1	37	20.49	20.48	20.49	
15	16QAM	1	74	20.56	20.57	20.54	
15	16QAM	36	0	20.30	20.29	20.27	
15	16QAM	36	20	20.49	20.47	20.36	
15	16QAM	36	39	20.42	20.39	20.36	21.5
15	16QAM	75	0	20.47	20.44	20.33	
15	64QAM	1	0	20.25	20.26	20.16	
15	64QAM	1	37	20.31	20.29	20.29	
15	64QAM	1	74	20.31	20.30	20.34	
15	64QAM	36	0	20.36	20.36	20.33	21.5
15	64QAM	36	20	20.56	20.54	20.41	
15	64QAM	36	39	20.46	20.47	20.43	
15	64QAM	75	0	20.48	20.45	20.33	
Channel				37600	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
10	QPSK	1	0	20.41	20.34	20.42	21.5
10	QPSK	1	25	20.31	20.43	20.26	
10	QPSK	1	49	20.37	20.43	20.32	
10	QPSK	25	0	20.31	20.24	20.26	
10	QPSK	25	12	20.50	20.43	20.41	
10	QPSK	25	25	20.47	20.37	20.35	
10	QPSK	50	0	20.36	20.42	20.30	21.5
10	16QAM	1	0	20.51	20.45	20.40	
10	16QAM	1	25	20.53	20.43	20.47	
10	16QAM	1	49	20.52	20.53	20.51	
10	16QAM	25	0	20.32	20.37	20.17	
10	16QAM	25	12	20.47	20.42	20.33	
10	16QAM	25	25	20.34	20.49	20.37	21.5
10	16QAM	50	0	20.56	20.54	20.40	
10	64QAM	1	0	20.17	20.21	20.16	
10	64QAM	1	25	20.25	20.39	20.30	
10	64QAM	1	49	20.23	20.27	20.39	
10	64QAM	25	0	20.30	20.30	20.28	
10	64QAM	25	12	20.56	20.44	20.57	21.5
10	64QAM	25	25	20.45	20.44	20.37	
10	64QAM	50	0	20.46	20.49	20.33	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	20.35	20.37	20.27	21.5
5	QPSK	1	12	20.41	20.47	20.30	
5	QPSK	1	24	20.47	20.44	20.39	
5	QPSK	12	0	20.39	20.34	20.32	
5	QPSK	12	7	20.54	20.49	20.35	
5	QPSK	12	13	20.46	20.49	20.38	
5	QPSK	25	0	20.30	20.46	20.40	21.5
5	16QAM	1	0	20.55	20.50	20.57	
5	16QAM	1	12	20.55	20.57	20.44	
5	16QAM	1	24	20.53	20.52	20.55	
5	16QAM	12	0	20.30	20.21	20.34	
5	16QAM	12	7	20.54	20.37	20.44	
5	16QAM	12	13	20.41	20.38	20.37	21.5
5	16QAM	25	0	20.56	20.51	20.33	
5	64QAM	1	0	20.35	20.13	20.13	
5	64QAM	1	12	20.22	20.25	20.25	
5	64QAM	1	24	20.37	20.35	20.37	
5	64QAM	12	0	20.37	20.40	20.24	
5	64QAM	12	7	20.52	20.57	20.38	21.5
5	64QAM	12	13	20.58	20.45	20.44	
5	64QAM	25	0	20.55	20.38	20.43	



Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	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				38790	39750	40185	40620	41055	41490	
Frequency (MHz)				2510	2508	2549.5	2593	2635.5	2680	
20	QPSK	1	0	19.91	19.92	19.91	19.88	19.73	19.49	21
20	QPSK	1	49	19.95	19.94	19.97	20.08	19.99	19.90	
20	QPSK	1	99	19.89	19.88	19.97	19.81	19.55	19.79	
20	QPSK	50	0	20.00	20.02	19.91	19.96	19.95	19.78	
20	QPSK	50	24	20.00	20.02	20.00	20.17	20.00	19.92	21
20	QPSK	50	50	19.96	19.97	20.01	20.10	19.93	19.98	
20	QPSK	100	0	19.91	19.93	19.90	20.07	19.88	19.84	
20	16QAM	1	0	20.07	20.10	20.08	19.81	19.86	19.62	
20	16QAM	1	49	19.99	20.02	20.04	20.14	20.12	19.96	21
20	16QAM	1	99	20.00	20.00	20.12	19.88	19.70	19.92	
20	16QAM	50	0	20.02	20.07	19.95	20.20	19.97	19.92	
20	16QAM	50	24	20.05	20.04	20.03	20.20	20.03	19.96	
20	16QAM	50	50	20.00	19.99	20.02	20.14	19.95	20.01	21
20	16QAM	100	0	19.96	19.97	19.93	20.10	19.93	19.87	
20	64QAM	1	0	19.88	19.93	19.81	19.49	19.55	19.30	
20	64QAM	1	49	19.77	19.78	19.70	19.64	19.69	19.73	
20	64QAM	1	99	19.76	19.73	20.03	19.64	19.47	19.68	21
20	64QAM	50	0	20.03	20.06	19.93	19.88	19.97	19.78	
20	64QAM	50	24	20.05	20.07	20.03	20.19	20.02	19.94	
20	64QAM	50	50	20.00	20.02	20.01	20.14	19.94	19.99	
20	64QAM	100	0	19.95	19.98	19.93	20.11	19.92	19.85	
Channel				38765	39725	40173	40620	41068	41515	Line-up limit (dBm)
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.89	19.95	19.61	19.78	19.80	19.56	21
15	QPSK	1	37	19.87	19.91	19.76	19.69	19.60	19.63	
15	QPSK	1	74	19.87	19.86	19.58	19.62	19.68	19.61	
15	QPSK	36	0	19.99	20.04	19.84	19.98	19.95	19.81	
15	QPSK	36	20	19.99	20.01	20.01	20.15	20.05	19.99	21
15	QPSK	36	39	19.95	19.96	19.91	20.11	19.95	19.97	
15	QPSK	75	0	19.84	19.98	19.91	20.09	19.98	19.86	
15	16QAM	1	0	20.06	20.13	19.91	19.92	19.99	19.75	
15	16QAM	1	37	19.97	19.96	20.08	20.15	20.12	20.00	21
15	16QAM	1	74	20.00	20.01	19.94	20.02	19.89	20.03	
15	16QAM	36	0	19.98	20.02	19.83	19.95	19.94	19.76	
15	16QAM	36	20	19.96	20.00	19.98	20.12	20.02	19.95	
15	16QAM	36	39	19.94	19.96	19.90	20.10	19.93	19.95	21
15	16QAM	75	0	19.97	19.99	19.95	20.12	20.03	19.90	
15	64QAM	1	0	19.85	19.87	19.56	19.66	19.70	19.48	
15	64QAM	1	37	19.78	19.80	19.85	19.92	19.87	19.75	
15	64QAM	1	74	19.75	19.76	19.74	19.81	19.62	19.77	21
15	64QAM	36	0	20.02	20.05	19.85	19.89	19.96	19.81	
15	64QAM	36	20	20.03	20.05	19.99	20.18	20.06	20.01	
15	64QAM	36	39	20.01	20.02	19.91	20.14	19.96	19.97	
15	64QAM	75	0	19.99	20.02	19.94	20.10	20.00	19.85	
Channel				38740	39700	40160	40620	41080	41540	Line-up limit (dBm)
Frequency (MHz)				2505	2503	2547	2593	2639	2685	
10	QPSK	1	0	19.81	20.04	19.67	19.88	19.75	19.58	21
10	QPSK	1	25	19.82	19.94	19.70	20.01	19.93	19.84	
10	QPSK	1	49	19.81	19.84	19.54	19.84	19.72	19.90	
10	QPSK	25	0	19.91	20.02	19.60	19.93	20.05	19.75	
10	QPSK	25	12	19.95	20.04	19.99	20.20	19.97	19.91	21
10	QPSK	25	25	19.99	19.94	19.84	20.04	19.92	19.89	
10	QPSK	50	0	19.89	20.08	19.93	20.03	19.99	19.87	
10	16QAM	1	0	20.07	20.07	19.86	19.87	20.05	19.77	
10	16QAM	1	25	19.96	19.96	20.00	20.07	20.11	20.03	21
10	16QAM	1	49	19.92	20.07	19.93	20.05	19.94	20.09	
10	16QAM	25	0	20.02	20.05	19.88	19.92	19.99	19.83	
10	16QAM	25	12	19.99	19.92	20.01	20.07	19.97	19.93	
10	16QAM	25	25	19.96	19.95	19.97	20.12	19.87	20.04	21
10	16QAM	50	0	19.90	20.04	20.05	20.19	20.03	19.99	
10	64QAM	1	0	19.81	19.88	19.52	19.65	19.71	19.42	
10	64QAM	1	25	19.76	19.89	19.92	19.96	19.95	19.83	
10	64QAM	1	49	19.82	19.67	19.70	19.89	19.58	19.61	21
10	64QAM	25	0	19.94	20.03	19.75	20.04	19.96	19.86	
10	64QAM	25	12	20.12	20.12	20.06	20.19	20.15	19.95	
10	64QAM	25	25	19.92	19.96	19.96	20.10	19.90	19.91	
10	64QAM	50	0	20.05	19.92	19.99	20.00	20.04	19.87	
Channel				38715	38675	40148	40620	41093	41565	Line-up limit (dBm)
Frequency (MHz)				2502.5	2498.5	2543.8	2593	2640.30	2687.5	
5	QPSK	1	0	19.94	19.86	19.66	19.74	19.67	19.46	21
5	QPSK	1	12	19.91	19.87	19.75	20.03	19.94	19.86	
5	QPSK	1	24	19.78	19.87	19.49	19.95	19.71	19.87	
5	QPSK	12	0	19.91	20.02	19.67	19.96	20.04	19.90	
5	QPSK	12	7	19.94	20.05	20.05	20.12	20.03	20.04	21
5	QPSK	12	13	19.87	20.06	19.63	20.11	19.91	19.97	
5	QPSK	25	0	20.04	19.94	19.95	20.15	19.94	19.83	
5	16QAM	1	0	20.16	20.12	19.97	19.88	19.94	19.67	
5	16QAM	1	12	19.89	20.01	20.00	20.12	20.10	20.00	21
5	16QAM	1	24	20.04	20.02	20.00	20.03	19.81	19.98	
5	16QAM	12	0	20.06	19.95	19.69	19.97	20.01	19.84	
5	16QAM	12	7	19.94	20.03	19.94	20.14	19.92	19.98	
5	16QAM	12	13	19.97	20.06	19.92	20.07	20.00	19.88	21
5	16QAM	25	0	19.94	19.96	19.95	20.19	19.97	19.95	
5	64QAM	1	0	19.85	19.92	19.66	19.71	19.70	19.52	
5	64QAM	1	12	19.81	19.78	19.77	19.94	19.94	19.70	
5	64QAM	1	24	19.70	19.74	19.69	19.72	19.64	19.75	21
5	64QAM	12	0	20.02	19.95	19.79	20.02	20.06	19.74	
5	64QAM	12	7	20.08	20.11	19.92	20.15	20.03	19.92	
5	64QAM	12	13	20.03	20.09	19.86	20.05	19.95	20.07	
5	64QAM	25	0	19.91	20.06	19.91	20.12	19.91	19.76	



Band 41_Ant 3										
BW (MHz)	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	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				38790	39750	40185	40620	41055	41490	
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	19.84	19.87	19.83	19.80	19.83	19.86	21
20	QPSK	1	49	19.76	19.80	19.87	19.95	19.87	19.77	
20	QPSK	1	99	19.81	19.79	19.89	19.69	19.44	19.69	
20	QPSK	50	0	20.02	20.04	19.91	19.95	19.93	19.78	
20	QPSK	50	24	20.01	20.02	20.03	20.15	20.00	19.92	21
20	QPSK	50	50	19.96	19.97	20.00	20.09	19.91	19.97	
20	QPSK	100	0	19.92	19.95	19.90	20.06	19.89	19.83	
20	QPSK	100	0	19.92	19.95	19.90	20.06	19.89	19.83	
20	16QAM	1	0	20.24	20.36	20.41	19.93	20.01	19.76	21
20	16QAM	1	49	20.16	20.26	20.18	20.35	20.22	20.13	
20	16QAM	1	99	20.11	20.16	20.24	20.06	19.84	20.03	
20	16QAM	50	0	20.05	20.08	19.94	19.29	19.07	19.80	
20	16QAM	50	24	20.03	20.06	20.05	20.18	20.04	19.95	21
20	16QAM	50	50	20.00	20.02	20.03	20.12	19.94	20.02	
20	16QAM	100	0	19.96	19.97	19.95	20.10	19.93	19.96	
20	16QAM	100	0	19.96	19.97	19.95	20.10	19.93	19.96	
20	64QAM	1	0	20.14	20.15	20.07	19.78	19.80	19.55	21
20	64QAM	1	49	20.03	20.01	20.01	20.18	20.09	19.86	
20	64QAM	1	99	20.00	20.00	20.40	19.80	19.68	19.91	
20	64QAM	50	0	20.03	20.06	19.92	20.00	19.98	19.78	
20	64QAM	50	24	20.06	20.07	20.05	20.22	20.02	19.93	21
20	64QAM	50	50	20.00	20.01	20.03	20.13	19.93	20.00	
20	64QAM	100	0	19.99	19.99	19.94	20.09	19.92	19.94	
20	64QAM	100	0	19.99	19.99	19.94	20.09	19.92	19.94	
Channel				38765	39725	40173	40620	41068	41515	
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.80	19.91	19.58	19.79	19.76	19.55	21
15	QPSK	1	37	19.87	19.88	19.75	19.97	19.87	19.80	
15	QPSK	1	74	19.85	19.87	19.60	19.85	19.63	19.79	
15	QPSK	36	0	20.01	20.02	19.85	19.98	19.93	19.80	
15	QPSK	36	20	20.03	20.03	19.98	20.17	20.07	19.97	21
15	QPSK	36	39	19.98	19.96	19.93	20.11	19.95	19.97	
15	QPSK	75	0	19.96	19.99	19.91	20.12	19.99	19.87	
15	16QAM	1	0	20.26	20.31	20.03	20.10	20.14	19.95	
15	16QAM	1	37	20.22	20.22	20.40	20.36	20.26	20.15	21
15	16QAM	1	74	20.14	20.17	20.11	20.17	20.03	20.15	
15	16QAM	36	0	20.00	20.05	19.87	19.96	19.94	19.79	
15	16QAM	36	20	19.99	20.03	19.98	20.15	20.05	19.96	
15	16QAM	36	39	19.98	19.98	19.92	20.12	19.98	19.97	21
15	16QAM	75	0	20.01	20.01	19.98	20.13	20.04	19.88	
15	64QAM	1	0	20.11	20.13	19.82	19.92	19.96	19.69	
15	64QAM	1	37	20.07	20.09	20.14	20.19	20.11	20.02	
15	64QAM	1	74	20.01	20.04	20.00	20.02	19.88	20.00	21
15	64QAM	36	0	20.04	20.05	19.88	20.01	19.96	19.91	
15	64QAM	36	20	20.06	20.07	20.02	20.18	20.08	20.00	
15	64QAM	36	39	20.03	20.05	19.94	20.13	19.97	19.95	
15	64QAM	75	0	20.00	20.01	19.94	20.12	19.99	19.96	
Channel				38740	39700	40160	40620	41080	41540	
Frequency (MHz)				2505	2501	2547	2593	2639	2685	
10	QPSK	1	0	19.71	19.65	19.39	19.50	19.42	19.35	21
10	QPSK	1	25	19.61	19.62	19.66	19.75	19.67	19.61	
10	QPSK	1	49	19.67	19.69	19.54	19.54	19.50	19.42	
10	QPSK	25	0	19.84	19.85	19.67	19.63	19.74	19.67	
10	QPSK	25	12	19.84	19.85	19.84	20.00	19.81	19.83	21
10	QPSK	25	25	19.81	19.82	19.73	19.89	19.78	19.70	
10	QPSK	50	0	19.77	19.78	19.79	19.89	19.75	19.75	
10	16QAM	1	0	20.06	20.09	19.74	19.86	19.81	19.74	
10	16QAM	1	25	20.01	20.02	20.04	20.12	20.01	19.96	21
10	16QAM	1	49	19.97	20.03	19.76	19.89	19.79	19.70	
10	16QAM	25	0	19.87	19.91	19.73	19.84	19.83	19.69	
10	16QAM	25	12	19.88	19.91	19.92	20.04	19.90	19.88	
10	16QAM	25	25	19.85	19.83	19.80	19.91	19.85	19.74	21
10	16QAM	50	0	19.82	19.85	19.83	19.95	19.79	19.76	
10	64QAM	1	0	19.96	20.02	19.66	19.72	19.67	19.62	
10	64QAM	1	25	19.96	19.97	20.05	20.12	20.04	19.93	
10	64QAM	1	49	19.89	19.92	19.76	19.80	19.71	19.67	21
10	64QAM	25	0	19.93	19.94	19.79	19.92	19.79	19.76	
10	64QAM	25	12	19.96	19.96	19.95	20.07	19.91	19.96	
10	64QAM	25	25	19.89	19.92	19.83	19.96	19.86	19.83	
10	64QAM	50	0	19.83	19.84	19.81	19.92	19.76	19.80	
Channel				38715	38675	40148	40620	41093	41565	
Frequency (MHz)				2502.5	2498.5	2543.8	2593	2640.30	2687.5	
5	QPSK	1	0	19.75	19.71	19.68	19.76	19.66	19.67	21
5	QPSK	1	12	19.68	19.69	19.68	19.80	19.71	19.67	
5	QPSK	1	24	19.67	19.69	19.72	19.78	19.71	19.60	
5	QPSK	12	0	19.85	19.86	19.80	19.90	19.84	19.82	
5	QPSK	12	7	19.88	19.91	19.88	20.03	19.84	19.83	21
5	QPSK	12	13	19.87	19.86	19.86	19.98	19.85	19.77	
5	QPSK	25	0	19.84	19.83	19.81	19.95	19.79	19.76	
5	16QAM	1	0	20.01	20.07	19.84	20.02	19.92	19.90	
5	16QAM	1	12	19.95	19.95	19.84	20.07	19.97	19.85	21
5	16QAM	1	24	20.02	20.04	19.89	20.09	19.96	19.84	
5	16QAM	12	0	19.92	19.93	19.86	19.94	19.86	19.85	
5	16QAM	12	7	19.93	19.94	19.92	20.03	19.86	19.87	
5	16QAM	12	13	19.92	19.92	19.88	20.02	19.91	19.84	21
5	16QAM	25	0	19.92	19.90	19.92	20.04	19.88	19.86	
5	64QAM	1	0	19.95	19.93	19.81	19.92	19.86	19.85	
5	64QAM	1	12	19.91	19.92	19.95	20.02	19.92	19.89	
5	64QAM	1	24	19.93	19.96	19.89	20.00	19.93	19.82	21
5	64QAM	12	0	19.95	19.95	19.89	19.95	19.86	19.88	
5	64QAM	12	7	19.94	19.96	19.93	20.05	19.92	19.90	
5	64QAM	12	13	19.89	19.94	19.92	20.04	19.89	19.85	
5	64QAM	25	0	19.90	19.90	19.92	20.02	19.88	19.87	



Band 38_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				37650	38000	38150	
Frequency (MHz)				2500	2505	2510	
20	QPSK	1	0	16.67	16.62	16.58	17.5
20	QPSK	1	49	16.70	16.64	16.60	
20	QPSK	1	99	16.67	16.62	16.57	
20	QPSK	50	0	16.57	16.53	16.48	
20	QPSK	50	24	16.78	16.75	16.60	17.5
20	QPSK	50	50	16.70	16.65	16.58	
20	QPSK	100	0	16.68	16.65	16.50	
20	16QAM	1	0	16.80	16.81	16.76	17.5
20	16QAM	1	49	16.82	16.78	16.73	
20	16QAM	1	99	16.82	16.78	16.71	
20	16QAM	50	0	16.60	16.56	16.51	
20	16QAM	50	24	16.80	16.74	16.63	17.5
20	16QAM	50	50	16.70	16.66	16.61	
20	16QAM	100	0	16.68	16.65	16.51	
20	64QAM	1	0	16.51	16.54	16.48	17.5
20	64QAM	1	49	16.57	16.50	16.48	
20	64QAM	1	99	16.65	16.51	16.47	
20	64QAM	50	0	16.61	16.58	16.53	
20	64QAM	50	24	16.81	16.78	16.65	17.5
20	64QAM	50	50	16.72	16.69	16.61	
20	64QAM	100	0	16.68	16.65	16.53	
Channel				37625	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	16.33	16.60	16.53	17.5
15	QPSK	1	37	16.64	16.59	16.57	
15	QPSK	1	74	16.65	16.62	16.58	
15	QPSK	36	0	16.46	16.56	16.50	
15	QPSK	36	20	16.63	16.72	16.58	17.5
15	QPSK	36	39	16.73	16.84	16.59	
15	QPSK	75	0	16.55	16.67	16.51	
15	16QAM	1	0	16.78	16.79	16.71	
15	16QAM	1	37	16.78	16.71	16.69	17.5
15	16QAM	1	74	16.79	16.77	16.69	
15	16QAM	36	0	16.41	16.52	16.46	
15	16QAM	36	20	16.59	16.70	16.55	
15	16QAM	36	39	16.69	16.83	16.55	17.5
15	16QAM	75	0	16.57	16.68	16.53	
15	64QAM	1	0	16.64	16.57	16.40	
15	64QAM	1	37	16.53	16.49	16.48	
15	64QAM	1	74	16.53	16.49	16.44	17.5
15	64QAM	36	0	16.45	16.59	16.53	
15	64QAM	36	20	16.63	16.72	16.62	
15	64QAM	36	39	16.71	16.84	16.61	
15	64QAM	75	0	16.58	16.69	16.55	
Channel				37600	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	16.97	16.26	16.19	
10	QPSK	1	25	16.30	16.29	16.22	17.5
10	QPSK	1	49	16.11	16.37	16.24	
10	QPSK	25	0	16.35	16.34	16.26	
10	QPSK	25	12	16.56	16.53	16.37	17.5
10	QPSK	25	25	16.47	16.45	16.36	
10	QPSK	50	0	16.47	16.44	16.29	
10	16QAM	1	0	16.40	16.70	16.64	
10	16QAM	1	25	16.71	16.66	16.63	17.5
10	16QAM	1	49	16.48	16.71	16.66	
10	16QAM	25	0	16.37	16.34	16.30	
10	16QAM	25	12	16.55	16.56	16.38	
10	16QAM	25	25	16.48	16.45	16.40	17.5
10	16QAM	50	0	16.49	16.47	16.39	
10	64QAM	1	0	16.25	16.54	16.51	
10	64QAM	1	25	16.63	16.57	16.56	
10	64QAM	1	49	16.38	16.59	16.53	17.5
10	64QAM	25	0	16.42	16.43	16.36	
10	64QAM	25	12	16.63	16.60	16.47	
10	64QAM	25	25	16.56	16.54	16.46	
10	64QAM	50	0	16.49	16.50	16.32	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	16.23	16.25	16.14	
5	QPSK	1	12	16.38	16.37	16.31	17.5
5	QPSK	1	24	16.29	16.30	16.21	
5	QPSK	12	0	16.51	16.41	16.37	
5	QPSK	12	7	16.57	16.54	16.48	17.5
5	QPSK	12	13	16.54	16.54	16.43	
5	QPSK	25	0	16.52	16.48	16.43	
5	16QAM	1	0	16.54	16.56	16.48	
5	16QAM	1	12	16.64	16.66	16.60	17.5
5	16QAM	1	24	16.65	16.68	16.61	
5	16QAM	12	0	16.52	16.47	16.40	
5	16QAM	12	7	16.58	16.56	16.52	
5	16QAM	12	13	16.54	16.52	16.47	17.5
5	16QAM	25	0	16.55	16.56	16.47	
5	64QAM	1	0	16.49	16.47	16.41	
5	64QAM	1	12	16.59	16.59	16.51	
5	64QAM	1	24	16.58	16.57	16.52	17.5
5	64QAM	12	0	16.53	16.47	16.40	
5	64QAM	12	7	16.62	16.59	16.54	
5	64QAM	12	13	16.60	16.57	16.50	
5	64QAM	25	0	16.59	16.56	16.52	

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)				2500	2543.5	2587	2630.5	2674	
20	QPSK	1	0	17.67	17.68	17.68	17.68	17.68	18.5
20	QPSK	1	49	17.84	17.69	17.85	17.66	17.70	
20	QPSK	1	99	17.65	17.83	17.55	17.29	17.59	
20	QPSK	50	0	17.93	17.70	17.71	17.66	17.58	
20	QPSK	50	24	17.79	17.79	17.95	17.72	17.74	
20	QPSK	50	0	17.78	17.84	17.86	17.84	17.81	18.5
20	QPSK	100	0	17.70	17.67	17.97	17.80	17.67	
20	16QAM	1	0	17.86	17.72	17.80	17.46	17.43	
20	16QAM	1	49	17.76	17.72	17.93	17.73	17.82	
20	16QAM	1	99	17.71	17.83	17.60	17.35	17.72	
20	16QAM	50	0	17.82	17.76	17.74	17.72	17.63	18.5
20	16QAM	50	24	17.81	17.79	17.93	17.80	17.78	
20	16QAM	50	50	17.76	17.84	17.88	17.72	17.84	
20	16QAM	100	0	17.70	17.68	17.84	17.67	17.70	
20	64QAM	1	0	17.64	17.55	17.27	17.44	17.18	
20	64QAM	1	49	17.55	17.66	17.74	17.70	17.56	18.5
20	64QAM	1	99	17.52	17.91	17.38	17.30	17.53	
20	64QAM	50	0	17.85	17.74	17.76	17.72	17.63	
20	64QAM	50	24	17.82	17.86	17.98	17.79	17.80	
20	64QAM	50	50	17.77	17.84	17.91	17.72	17.87	
20	64QAM	100	0	17.74	17.73	17.86	17.68	17.71	18.5
Channel				39725	40173	40620	41055	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	17.72	17.47	17.56	17.55	17.36	18.5
15	QPSK	1	37	17.66	17.71	17.76	17.70	17.65	
15	QPSK	1	74	17.65	17.51	17.67	17.43	17.63	
15	QPSK	36	0	17.80	17.61	17.74	17.67	17.61	
15	QPSK	36	20	17.77	17.78	17.89	17.79	17.82	
15	QPSK	36	39	17.78	17.70	17.88	17.68	17.80	18.5
15	QPSK	75	0	17.74	17.73	17.62	17.72	17.67	
15	16QAM	1	49	17.80	17.54	17.74	17.63	17.60	
15	16QAM	1	37	17.72	17.65	17.92	17.75	17.87	
15	16QAM	1	74	17.75	17.61	17.76	17.57	17.84	
15	16QAM	36	0	17.77	17.59	17.72	17.66	17.60	18.5
15	16QAM	36	20	17.74	17.72	17.69	17.76	17.81	
15	16QAM	36	39	17.76	17.65	17.84	17.68	17.79	
15	16QAM	75	0	17.75	17.69	17.88	17.78	17.70	
15	64QAM	1	0	17.69	17.12	17.45	17.47	17.34	
15	64QAM	1	37	17.67	17.74	17.70	17.66	17.65	18.5
15	64QAM	1	74	17.55	17.62	17.55	17.46	17.68	
15	64QAM	36	0	17.83	17.68	17.76	17.73	17.68	
15	64QAM	36	20	17.84	17.78	17.96	17.84	17.85	
15	64QAM	36	39	17.76	17.72	17.91	17.73	17.86	
15	64QAM	75	0	17.75	17.73	17.91	17.79	17.72	18.5
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	17.49	17.13	17.31	17.15	17.19	18.5
10	QPSK	1	25	17.36	17.35	17.51	17.40	17.44	
10	QPSK	1	49	17.38	17.15	17.26	17.22	17.19	
10	QPSK	25	0	17.64	17.50	17.58	17.47	17.51	
10	QPSK	25	12	17.63	17.62	17.75	17.54	17.66	
10	QPSK	25	25	17.61	17.55	17.62	17.53	17.56	18.5
10	QPSK	50	0	17.65	17.54	17.65	17.45	17.57	
10	16QAM	1	0	17.83	17.55	17.69	17.58	17.57	
10	16QAM	1	25	17.73	17.76	17.91	17.76	17.83	
10	16QAM	1	49	17.76	17.55	17.67	17.54	17.55	
10	16QAM	25	0	17.65	17.46	17.62	17.55	17.55	18.5
10	16QAM	25	12	17.66	17.64	17.79	17.65	17.72	
10	16QAM	25	25	17.62	17.53	17.66	17.62	17.60	
10	16QAM	50	0	17.66	17.59	17.66	17.54	17.62	
10	64QAM	1	0	17.78	17.29	17.55	17.48	17.47	
10	64QAM	1	25	17.70	17.97	17.87	17.88	17.79	18.5
10	64QAM	1	49	17.70	17.61	17.53	17.50	17.53	
10	64QAM	25	0	17.71	17.62	17.67	17.57	17.64	
10	64QAM	25	12	17.74	17.74	17.86	17.86	17.61	
10	64QAM	25	25	17.72	17.65	17.74	17.64	17.66	
10	64QAM	50	0	17.65	17.61	17.71	17.53	17.60	18.5
Channel				39675	40146	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5	
5	QPSK	1	0	17.68	17.33	17.48	17.36	17.48	18.5
5	QPSK	1	12	17.43	17.40	17.57	17.45	17.50	
5	QPSK	1	24	17.43	17.39	17.51	17.41	17.43	
5	QPSK	12	0	17.62	17.57	17.65	17.54	17.65	
5	QPSK	12	7	17.67	17.65	17.71	17.58	17.65	
5	QPSK	12	13	17.63	17.64	17.70	17.57	17.61	18.5
5	QPSK	25	0	17.58	17.61	17.66	17.55	17.59	
5	16QAM	1	0	17.79	17.77	17.76	17.69	17.79	
5	16QAM	1	12	17.69	17.84	17.79	17.74	17.69	
5	16QAM	1	24	17.72	17.80	17.79	17.74	17.68	
5	16QAM	12	0	17.66	17.63	17.72	17.59	17.70	18.5
5	16QAM	12	7	17.70	17.70	17.76	17.60	17.70	
5	16QAM	12	13	17.62	17.68	17.76	17.62	17.65	
5	16QAM	25	0	17.64	17.64	17.76	17.63	17.70	
5	64QAM	1	0	17.72	17.64	17.73	17.61	17.73	
5	64QAM	1	12	17.68	17.72	17.76	17.72	17.71	18.5
5	64QAM	1	24	17.69	17.75	17.77	17.69	17.69	
5	64QAM	12	0	17.69	17.66	17.71	17.64	17.70	
5	64QAM	12	7	17.70	17.71	17.82	17.65	17.73	
5	64QAM	12	13	17.66	17.70	17.78	17.68	17.69	
5	64QAM	25	0	17.65	17.76	17.81	17.64	17.70	



Band 41_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	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				38790	39750	40185	40620	41055	41490	
Frequency (MHz)				2510	2508	2449.5	2593	2634.5	2680	
20	QPSK	1	0	17.60	17.63	17.57	17.53	17.53	17.18	18.5
20	QPSK	1	49	17.53	17.56	17.55	17.71	17.56	17.59	
20	QPSK	1	99	17.54	17.53	17.62	17.44	17.16	17.54	
20	QPSK	50	0	17.76	17.78	17.66	17.71	17.64	17.58	
20	QPSK	50	24	17.76	17.75	17.78	17.91	17.71	17.74	18.5
20	QPSK	50	50	17.69	17.74	17.62	17.85	17.62	17.81	
20	QPSK	100	0	17.70	17.70	17.65	17.81	17.60	17.66	
20	16QAM	1	0	17.96	17.98	17.90	17.77	17.65	17.65	
20	16QAM	1	49	17.88	17.93	17.91	18.12	17.94	18.04	18.5
20	16QAM	1	99	17.84	17.87	18.01	17.76	17.51	17.91	
20	16QAM	50	0	17.79	17.81	17.71	17.72	17.72	17.63	
20	16QAM	50	24	17.79	17.79	17.78	17.94	17.79	17.79	
20	16QAM	50	50	17.78	17.77	17.84	17.90	17.72	17.85	18.5
20	16QAM	100	0	17.69	17.70	17.68	17.83	17.67	17.70	
20	64QAM	1	0	17.88	17.89	17.95	17.56	17.64	17.43	
20	64QAM	1	49	17.76	17.83	17.86	17.96	17.63	17.85	
20	64QAM	1	99	17.67	17.76	18.11	17.62	17.53	17.78	18.5
20	64QAM	50	0	17.80	17.80	17.71	17.78	17.72	17.63	
20	64QAM	50	24	17.81	17.83	17.85	17.95	17.78	17.80	
20	64QAM	50	50	17.76	17.78	17.83	17.89	17.70	17.86	
20	64QAM	100	0	17.70	17.74	17.73	17.87	17.68	17.71	18.5
Channel				38765	39725	40173	40620	41068	41515	
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	17.68	17.68	17.47	17.52	17.50	17.33	18.5
15	QPSK	1	37	17.61	17.63	17.64	17.75	17.65	17.63	
15	QPSK	1	74	17.64	17.61	17.47	17.63	17.39	17.58	
15	QPSK	36	0	17.61	17.80	17.61	17.72	17.65	17.62	
15	QPSK	36	20	17.76	17.78	17.77	17.90	17.78	17.81	18.5
15	QPSK	36	39	17.77	17.79	17.68	17.86	17.68	17.79	
15	QPSK	75	0	17.74	17.74	17.73	17.83	17.69	17.66	
15	16QAM	1	0	17.98	18.00	17.67	17.89	17.63	17.75	
15	16QAM	1	37	17.93	17.94	17.85	18.08	17.92	17.99	18.5
15	16QAM	1	74	17.86	17.89	17.72	17.95	17.69	17.99	
15	16QAM	36	0	17.76	17.77	17.57	17.71	17.67	17.62	
15	16QAM	36	20	17.76	17.79	17.70	17.88	17.78	17.84	
15	16QAM	36	39	17.75	17.79	17.66	17.85	17.71	17.81	18.5
15	16QAM	75	0	17.73	17.75	17.73	17.87	17.75	17.68	
15	64QAM	1	0	17.82	17.85	17.70	17.66	17.70	17.57	
15	64QAM	1	37	17.82	17.86	17.97	17.96	17.89	17.85	
15	64QAM	1	74	17.77	17.82	17.81	17.76	17.70	17.69	18.5
15	64QAM	36	0	17.82	17.85	17.68	17.79	17.71	17.68	
15	64QAM	36	20	17.81	17.81	17.82	17.96	17.83	17.84	
15	64QAM	36	39	17.80	17.80	17.72	17.91	17.73	17.85	
15	64QAM	75	0	17.74	17.77	17.73	17.89	17.78	17.70	18.5
Channel				38740	39700	40160	40620	41080	41540	
Frequency (MHz)				2492.5	2493	2547	2593	2639	2685	
10	QPSK	1	0	17.45	17.49	17.08	17.21	17.08	17.18	18.5
10	QPSK	1	25	17.33	17.35	17.36	17.49	17.36	17.43	
10	QPSK	1	49	17.41	17.36	17.15	17.31	17.12	17.27	
10	QPSK	25	0	17.57	17.61	17.46	17.57	17.45	17.48	
10	QPSK	25	12	17.69	17.61	17.64	17.70	17.55	17.65	18.5
10	QPSK	25	25	17.59	17.59	17.53	17.62	17.51	17.52	
10	QPSK	50	0	17.52	17.51	17.52	17.63	17.43	17.56	
10	16QAM	1	0	17.82	17.80	17.49	17.62	17.52	17.55	
10	16QAM	1	25	17.70	17.74	17.77	17.87	17.77	17.75	18.5
10	16QAM	1	49	17.71	17.71	17.52	17.63	17.50	17.52	
10	16QAM	25	0	17.65	17.63	17.47	17.59	17.53	17.54	
10	16QAM	25	12	17.65	17.64	17.64	17.76	17.62	17.71	
10	16QAM	25	25	17.59	17.61	17.51	17.65	17.60	17.58	18.5
10	16QAM	50	0	17.55	17.56	17.56	17.67	17.53	17.62	
10	64QAM	1	0	17.73	17.75	17.47	17.59	17.46	17.44	
10	64QAM	1	25	17.66	17.74	17.95	17.81	17.84	17.81	
10	64QAM	1	49	17.66	17.68	17.59	17.54	17.51	17.49	18.5
10	64QAM	25	0	17.70	17.73	17.53	17.68	17.57	17.61	
10	64QAM	25	12	17.71	17.74	17.75	17.86	17.68	17.74	
10	64QAM	25	25	17.66	17.70	17.60	17.73	17.61	17.64	
10	64QAM	50	0	17.56	17.57	17.58	17.68	17.50	17.61	18.5
Channel				38715	38675	40148	40620	41093	41565	
Frequency (MHz)				2502.5	2498.5	2543.8	2593	2640.30	2687.5	
5	QPSK	1	0	17.43	17.45	17.26	17.59	17.54	17.67	18.5
5	QPSK	1	12	17.41	17.42	17.39	17.57	17.42	17.46	
5	QPSK	1	24	17.38	17.41	17.37	17.53	17.37	17.43	
5	QPSK	12	0	17.59	17.63	17.55	17.66	17.51	17.65	
5	QPSK	12	7	17.65	17.64	17.63	17.74	17.54	17.67	18.5
5	QPSK	12	13	17.56	17.57	17.61	17.73	17.58	17.64	
5	QPSK	25	0	17.59	17.56	17.59	17.68	17.51	17.61	
5	16QAM	1	0	17.74	17.80	17.75	17.76	17.70	17.70	
5	16QAM	1	12	17.71	17.69	17.62	17.78	17.75	17.67	18.5
5	16QAM	1	24	17.75	17.74	17.82	17.83	17.72	17.68	
5	16QAM	12	0	17.64	17.63	17.59	17.72	17.56	17.68	
5	16QAM	12	7	17.67	17.68	17.71	17.80	17.58	17.67	
5	16QAM	12	13	17.62	17.63	17.64	17.70	17.63	17.65	18.5
5	16QAM	25	0	17.60	17.65	17.63	17.77	17.60	17.70	
5	64QAM	1	0	17.65	17.66	17.61	17.70	17.64	17.70	
5	64QAM	1	12	17.67	17.65	17.72	17.78	17.70	17.71	
5	64QAM	1	24	17.66	17.66	17.67	17.78	17.72	17.65	18.5
5	64QAM	12	0	17.64	17.70	17.60	17.71	17.62	17.72	
5	64QAM	12	7	17.67	17.70	17.71	17.82	17.66	17.75	
5	64QAM	12	13	17.63	17.64	17.67	17.79	17.67	17.72	
5	64QAM	25	0	17.65	17.66	17.66	17.78	17.63	17.71	

Band 38_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				37650	38000	38150	
Frequency (MHz)				2508	2592	2676	
20	QPSK	1	0	13.54	13.60	13.58	14.5
20	QPSK	1	49	13.62	13.61	13.58	
20	QPSK	1	89	13.63	13.63	13.57	
20	QPSK	50	0	13.60	13.61	13.58	
20	QPSK	50	24	13.71	13.65	13.60	
20	QPSK	80	0	13.61	13.58	13.55	14.5
20	QPSK	100	0	13.66	13.58	13.53	
20	16QAM	1	0	13.66	13.68	13.63	
20	16QAM	1	49	13.67	13.66	13.64	
20	16QAM	1	89	13.69	13.69	13.63	
20	16QAM	50	0	13.60	13.57	13.57	14.5
20	16QAM	50	24	13.70	13.61	13.60	
20	16QAM	50	50	13.61	13.60	13.58	
20	16QAM	100	0	13.63	13.56	13.52	
20	64QAM	1	0	13.44	13.46	13.42	
20	64QAM	1	49	13.50	13.51	13.43	14.5
20	64QAM	1	89	13.53	13.49	13.45	
20	64QAM	50	0	13.61	13.59	13.55	
20	64QAM	50	24	13.85	13.80	13.64	
20	64QAM	50	50	13.72	13.68	13.62	
20	64QAM	100	0	13.70	13.66	13.54	
Channel				37625	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	13.55	13.56	13.53	14.5
15	QPSK	1	37	13.58	13.58	13.53	
15	QPSK	1	74	13.60	13.60	13.59	
15	QPSK	36	0	13.64	13.63	13.58	
15	QPSK	36	20	13.77	13.64	13.69	
15	QPSK	36	39	13.66	13.64	13.60	14.5
15	QPSK	75	0	13.69	13.61	13.68	
15	16QAM	1	0	13.68	13.69	13.68	
15	16QAM	1	37	13.70	13.72	13.68	
15	16QAM	1	74	13.74	13.71	13.69	
15	16QAM	36	0	13.59	13.57	13.55	14.5
15	16QAM	36	20	13.66	13.59	13.62	
15	16QAM	36	39	13.61	13.61	13.55	
15	16QAM	75	0	13.70	13.62	13.64	
15	64QAM	1	0	13.47	13.47	13.44	
15	64QAM	1	37	13.57	13.54	13.48	14.5
15	64QAM	1	74	13.58	13.53	13.45	
15	64QAM	36	0	13.68	13.64	13.55	
15	64QAM	36	20	13.84	13.81	13.67	
15	64QAM	36	39	13.77	13.73	13.64	
15	64QAM	75	0	13.77	13.73	13.58	
Channel				37600	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	13.14	13.35	13.34	14.5
10	QPSK	1	25	13.35	13.34	13.33	
10	QPSK	1	49	13.10	13.34	13.32	
10	QPSK	25	0	13.40	13.40	13.38	
10	QPSK	25	12	13.51	13.42	13.46	
10	QPSK	25	25	13.43	13.40	13.35	14.5
10	QPSK	50	0	13.46	13.36	13.43	
10	16QAM	1	0	13.33	13.51	13.51	
10	16QAM	1	25	13.48	13.49	13.45	
10	16QAM	1	49	13.25	13.51	13.47	
10	16QAM	25	0	13.32	13.38	13.32	14.5
10	16QAM	25	12	13.49	13.42	13.47	
10	16QAM	25	25	13.37	13.37	13.31	
10	16QAM	50	0	13.46	13.40	13.48	
10	64QAM	1	0	12.90	13.25	13.17	
10	64QAM	1	25	13.33	13.32	13.25	14.5
10	64QAM	1	49	13.00	13.27	13.22	
10	64QAM	25	0	13.44	13.47	13.39	
10	64QAM	25	12	13.66	13.66	13.51	
10	64QAM	25	25	13.55	13.53	13.48	
10	64QAM	50	0	13.51	13.53	13.35	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	13.36	13.39	13.34	14.5
5	QPSK	1	12	13.38	13.42	13.35	
5	QPSK	1	24	13.32	13.32	13.22	
5	QPSK	12	0	13.47	13.47	13.44	
5	QPSK	12	7	13.50	13.46	13.42	
5	QPSK	12	13	13.45	13.45	13.39	14.5
5	QPSK	25	0	13.46	13.42	13.36	
5	16QAM	1	0	13.45	13.48	13.44	
5	16QAM	1	12	13.57	13.58	13.59	
5	16QAM	1	24	13.45	13.45	13.41	
5	16QAM	12	0	13.41	13.43	13.41	14.5
5	16QAM	12	7	13.40	13.42	13.39	
5	16QAM	12	13	13.39	13.44	13.38	
5	16QAM	25	0	13.52	13.44	13.39	
5	64QAM	1	0	13.20	13.23	13.18	
5	64QAM	1	12	13.29	13.37	13.28	14.5
5	64QAM	1	24	13.33	13.36	13.26	
5	64QAM	12	0	13.56	13.52	13.45	
5	64QAM	12	7	13.65	13.64	13.58	
5	64QAM	12	13	13.60	13.59	13.53	
5	64QAM	25	0	13.63	13.66	13.57	

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)				2500	2543.5	2587	2630.5	2674	
20	QPSK	1	0	14.72	14.68	14.58	14.38	14.38	15.5
20	QPSK	1	49	14.68	14.69	15.00	14.60	14.63	
20	QPSK	1	99	14.85	14.75	14.39	14.37	14.25	
20	QPSK	50	0	14.80	14.78	14.78	14.55	14.57	
20	QPSK	50	24	14.76	14.82	15.05	14.67	14.74	
20	QPSK	50	50	14.74	14.85	14.73	14.70	14.80	15.5
20	QPSK	100	0	14.68	14.77	14.71	14.67	14.54	
20	16QAM	1	0	14.88	14.83	14.81	14.57	14.44	
20	16QAM	1	49	14.83	14.83	14.95	14.81	14.82	
20	16QAM	1	99	14.78	14.87	14.67	14.41	14.72	
20	16QAM	50	0	14.84	14.76	14.77	14.72	14.84	15.5
20	16QAM	50	24	14.85	14.86	14.88	14.79	14.81	
20	16QAM	50	50	14.80	14.90	14.93	14.71	14.86	
20	16QAM	100	0	14.76	14.73	14.89	14.70	14.74	
20	64QAM	1	0	14.64	14.42	14.29	14.19	14.12	
20	64QAM	1	49	14.63	14.43	14.74	14.45	14.55	15.5
20	64QAM	1	99	14.49	14.59	14.40	14.09	14.48	
20	64QAM	50	0	14.82	14.80	14.79	14.74	14.67	
20	64QAM	50	24	14.85	14.87	15.01	14.79	14.82	
20	64QAM	50	50	14.79	14.90	14.93	14.72	14.92	
20	64QAM	100	0	14.75	14.78	14.89	14.70	14.76	
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	14.70	14.54	14.68	14.47	14.43	15.5
15	QPSK	1	37	14.69	14.71	14.77	14.64	14.59	
15	QPSK	1	74	14.69	14.66	14.53	14.54	14.45	
15	QPSK	36	0	14.79	14.63	14.80	14.57	14.61	
15	QPSK	36	20	14.78	14.86	14.81	14.67	14.75	
15	QPSK	36	39	14.75	14.84	14.78	14.73	14.83	15.5
15	QPSK	75	0	14.73	14.82	14.77	14.62	14.68	
15	16QAM	1	0	14.93	14.84	14.75	14.73	14.59	
15	16QAM	1	37	14.83	14.78	14.86	14.81	14.82	
15	16QAM	1	74	14.85	14.66	14.85	14.64	14.83	
15	16QAM	36	0	14.87	14.65	14.76	14.68	14.64	15.5
15	16QAM	36	20	14.84	14.79	14.92	14.79	14.83	
15	16QAM	36	39	14.81	14.72	14.91	14.71	14.81	
15	16QAM	75	0	14.83	14.78	14.94	14.81	14.76	
15	64QAM	1	0	14.64	14.25	14.50	14.40	14.32	
15	64QAM	1	37	14.69	14.56	14.76	14.55	14.63	15.5
15	64QAM	1	74	14.67	14.41	14.58	14.33	14.63	
15	64QAM	36	0	14.89	14.72	14.85	14.75	14.70	
15	64QAM	36	20	14.86	14.86	15.00	14.85	14.89	
15	64QAM	36	39	14.86	14.80	14.96	14.75	14.89	
15	64QAM	75	0	14.81	14.81	14.93	14.82	14.76	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	14.54	14.28	14.28	14.21	14.26	15.5
10	QPSK	1	25	14.49	14.57	14.55	14.42	14.38	
10	QPSK	1	49	14.56	14.22	14.25	14.24	14.22	
10	QPSK	25	0	14.59	14.45	14.54	14.40	14.41	
10	QPSK	25	12	14.60	14.62	14.58	14.55	14.47	
10	QPSK	25	25	14.63	14.52	14.58	14.45	14.44	15.5
10	QPSK	50	0	14.62	14.57	14.51	14.48	14.41	
10	16QAM	1	0	14.74	14.46	14.54	14.56	14.52	
10	16QAM	1	25	14.68	14.67	14.76	14.67	14.70	
10	16QAM	1	49	14.64	14.42	14.51	14.46	14.45	
10	16QAM	25	0	14.74	14.51	14.61	14.48	14.57	15.5
10	16QAM	25	12	14.73	14.72	14.82	14.64	14.78	
10	16QAM	25	25	14.70	14.59	14.67	14.61	14.65	
10	16QAM	50	0	14.81	14.64	14.71	14.54	14.68	
10	64QAM	1	0	14.44	14.13	14.27	14.11	14.16	
10	64QAM	1	25	14.40	14.31	14.55	14.36	14.43	15.5
10	64QAM	1	49	14.36	14.03	14.20	14.05	14.12	
10	64QAM	25	0	14.75	14.57	14.64	14.54	14.60	
10	64QAM	25	12	14.77	14.77	14.85	14.68	14.77	
10	64QAM	25	25	14.73	14.65	14.72	14.62	14.62	
10	64QAM	50	0	14.66	14.66	14.72	14.53	14.65	
Channel				39675	40146	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5	
5	QPSK	1	0	14.60	14.38	14.49	14.33	14.38	15.5
5	QPSK	1	12	14.51	14.53	14.58	14.46	14.46	
5	QPSK	1	24	14.54	14.37	14.47	14.31	14.32	
5	QPSK	12	0	14.64	14.62	14.81	14.49	14.56	
5	QPSK	12	7	14.85	14.66	14.68	14.54	14.59	
5	QPSK	12	13	14.83	14.60	14.67	14.55	14.52	15.5
5	QPSK	25	0	14.58	14.60	14.63	14.49	14.51	
5	16QAM	1	0	14.74	14.64	14.75	14.67	14.72	
5	16QAM	1	12	14.79	14.82	14.85	14.82	14.81	
5	16QAM	1	24	14.74	14.71	14.77	14.71	14.74	
5	16QAM	12	0	14.66	14.65	14.69	14.63	14.71	15.5
5	16QAM	12	7	14.70	14.69	14.77	14.65	14.75	
5	16QAM	12	13	14.67	14.69	14.76	14.66	14.68	
5	16QAM	25	0	14.70	14.69	14.78	14.68	14.76	
5	64QAM	1	0	14.50	14.26	14.52	14.28	14.47	
5	64QAM	1	12	14.44	14.35	14.55	14.36	14.45	15.5
5	64QAM	1	24	14.47	14.34	14.54	14.37	14.43	
5	64QAM	12	0	14.75	14.65	14.73	14.64	14.73	
5	64QAM	12	7	14.77	14.76	14.81	14.64	14.75	
5	64QAM	12	13	14.72	14.71	14.82	14.67	14.71	
5	64QAM	25	0	14.75	14.74	14.81	14.64	14.75	

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)				2500	2543.5	2587	2630.5	2674	
20	QPSK	1	0	14.64	14.55	14.47	14.22	14.21	15.5
20	QPSK	1	49	14.56	14.68	14.67	14.48	14.49	
20	QPSK	1	99	14.56	14.65	14.26	14.26	14.12	
20	QPSK	50	0	14.81	14.78	14.77	14.55	14.55	
20	QPSK	50	24	14.76	14.84	14.81	14.65	14.74	15.5
20	QPSK	50	50	14.74	14.86	14.75	14.68	14.59	
20	QPSK	100	0	14.68	14.75	14.72	14.66	14.52	
20	16QAM	1	0	15.04	14.84	14.72	14.68	14.57	
20	16QAM	1	49	15.02	14.93	15.09	14.93	15.01	15.5
20	16QAM	1	99	14.87	14.88	14.82	14.54	14.87	
20	16QAM	50	0	14.87	14.76	14.76	14.70	14.64	
20	16QAM	50	24	14.88	14.89	14.88	14.78	14.78	
20	16QAM	50	50	14.82	14.87	14.91	14.69	14.87	15.5
20	16QAM	100	0	14.79	14.75	14.86	14.69	14.70	
20	64QAM	1	0	14.82	14.71	14.57	14.48	14.38	
20	64QAM	1	49	14.81	14.71	15.00	14.74	14.77	
20	64QAM	1	99	14.79	14.88	14.66	14.36	14.74	15.5
20	64QAM	50	0	14.85	14.78	14.80	14.72	14.67	
20	64QAM	50	24	14.88	14.87	15.01	14.79	14.80	
20	64QAM	50	50	14.80	14.89	14.94	14.70	14.90	
20	64QAM	100	0	14.75	14.79	14.80	14.69	14.73	
Channel				39725	40173	40620	41058	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	14.67	14.49	14.61	14.46	14.37	15.5
15	QPSK	1	37	14.64	14.65	14.67	14.55	14.61	
15	QPSK	1	74	14.64	14.60	14.47	14.47	14.38	
15	QPSK	36	0	14.83	14.64	14.78	14.54	14.59	
15	QPSK	36	20	14.76	14.83	14.78	14.63	14.74	15.5
15	QPSK	36	39	14.74	14.81	14.75	14.71	14.61	
15	QPSK	75	0	14.71	14.79	14.72	14.59	14.65	
15	16QAM	1	0	15.02	14.73	14.88	14.85	14.72	
15	16QAM	1	37	14.97	14.94	15.08	14.96	14.99	15.5
15	16QAM	1	74	14.88	14.78	14.96	14.75	14.99	
15	16QAM	36	0	14.84	14.65	14.77	14.67	14.64	
15	16QAM	36	20	14.86	14.80	14.91	14.78	14.84	
15	16QAM	36	39	14.85	14.73	14.89	14.69	14.81	15.5
15	16QAM	75	0	14.82	14.78	14.90	14.78	14.72	
15	64QAM	1	0	14.89	14.52	14.75	14.63	14.56	
15	64QAM	1	37	14.88	14.80	15.04	14.82	14.89	
15	64QAM	1	74	14.82	14.66	14.86	14.61	14.88	15.5
15	64QAM	36	0	14.87	14.70	14.82	14.73	14.68	
15	64QAM	36	20	14.87	14.86	15.00	14.83	14.87	
15	64QAM	36	39	14.84	14.78	14.95	14.73	14.85	
15	64QAM	75	0	14.80	14.81	14.91	14.79	14.73	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2638	2685	
10	QPSK	1	0	14.44	14.18	14.21	14.06	14.15	15.5
10	QPSK	1	25	14.43	14.41	14.46	14.32	14.36	
10	QPSK	1	49	14.42	14.20	14.20	14.03	14.10	
10	QPSK	25	0	14.81	14.46	14.50	14.39	14.40	
10	QPSK	25	12	14.82	14.64	14.59	14.53	14.49	15.5
10	QPSK	25	25	14.57	14.52	14.55	14.41	14.43	
10	QPSK	50	0	14.63	14.52	14.49	14.48	14.39	
10	16QAM	1	0	14.87	14.56	14.66	14.58	14.63	
10	16QAM	1	25	14.82	14.79	14.82	14.63	14.62	15.5
10	16QAM	1	49	14.81	14.57	14.67	14.60	14.59	
10	16QAM	25	0	14.75	14.52	14.64	14.55	14.56	
10	16QAM	25	12	14.71	14.70	14.82	14.68	14.77	
10	16QAM	25	25	14.72	14.59	14.68	14.61	14.62	15.5
10	16QAM	50	0	14.63	14.62	14.72	14.57	14.66	
10	64QAM	1	0	14.80	14.37	14.57	14.40	14.46	
10	64QAM	1	25	14.72	14.65	14.90	14.69	14.76	
10	64QAM	1	49	14.74	14.45	14.60	14.46	14.50	15.5
10	64QAM	25	0	14.78	14.61	14.69	14.56	14.64	
10	64QAM	25	12	14.80	14.76	14.86	14.68	14.61	
10	64QAM	25	25	14.77	14.68	14.77	14.64	14.68	
10	64QAM	50	0	14.67	14.63	14.75	14.54	14.63	
Channel				39675	40146	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5	
5	QPSK	1	0	14.48	14.30	14.39	14.22	14.30	15.5
5	QPSK	1	12	14.46	14.49	14.49	14.36	14.41	
5	QPSK	1	24	14.44	14.30	14.40	14.24	14.23	
5	QPSK	12	0	14.64	14.59	14.61	14.48	14.52	
5	QPSK	12	7	14.88	14.63	14.59	14.50	14.54	15.5
5	QPSK	12	13	14.80	14.58	14.60	14.51	14.51	
5	QPSK	25	0	14.59	14.57	14.54	14.44	14.48	
5	16QAM	1	0	14.88	14.81	14.83	14.77	14.82	
5	16QAM	1	12	14.82	14.91	14.89	14.86	14.84	15.5
5	16QAM	1	24	14.84	14.86	14.87	14.83	14.78	
5	16QAM	12	0	14.72	14.84	14.74	14.65	14.73	
5	16QAM	12	7	14.73	14.75	14.81	14.69	14.78	
5	16QAM	12	13	14.71	14.70	14.74	14.68	14.74	15.5
5	16QAM	25	0	14.68	14.70	14.79	14.68	14.74	
5	64QAM	1	0	14.78	14.63	14.74	14.63	14.72	
5	64QAM	1	12	14.75	14.71	14.81	14.69	14.73	
5	64QAM	1	24	14.76	14.69	14.84	14.71	14.68	15.5
5	64QAM	12	0	14.72	14.68	14.75	14.60	14.74	
5	64QAM	12	7	14.76	14.74	14.83	14.64	14.75	
5	64QAM	12	13	14.76	14.73	14.79	14.69	14.68	
5	64QAM	25	0	14.71	14.71	14.80	14.62	14.75	



Band 38_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				37650	38000	38150	
Frequency (MHz)				2568	2595	2610	
20	QPSK	1	0	13.54	13.60	13.58	15
20	QPSK	1	49	13.62	13.61	13.58	
20	QPSK	1	89	13.63	13.63	13.57	
20	QPSK	50	0	13.60	13.61	13.58	
20	QPSK	50	24	13.71	13.65	13.60	15
20	QPSK	50	50	13.61	13.58	13.55	
20	QPSK	100	0	13.66	13.58	13.53	
20	16QAM	1	0	13.66	13.68	13.63	
20	16QAM	1	49	13.67	13.66	13.64	15
20	16QAM	1	89	13.69	13.69	13.63	
20	16QAM	50	0	13.60	13.57	13.57	
20	16QAM	50	24	13.70	13.61	13.60	
20	16QAM	50	50	13.61	13.60	13.58	15
20	16QAM	100	0	13.63	13.56	13.52	
20	64QAM	1	0	13.44	13.46	13.42	
20	64QAM	1	49	13.50	13.51	13.43	
20	64QAM	1	89	13.53	13.49	13.45	15
20	64QAM	50	0	13.61	13.59	13.55	
20	64QAM	50	24	13.85	13.80	13.64	
20	64QAM	50	50	13.72	13.68	13.62	
20	64QAM	100	0	13.70	13.66	13.54	
Channel				37625	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	13.55	13.56	13.53	15
15	QPSK	1	37	13.58	13.58	13.53	
15	QPSK	1	74	13.60	13.60	13.59	
15	QPSK	36	0	13.64	13.63	13.58	
15	QPSK	36	20	13.77	13.64	13.69	15
15	QPSK	36	39	13.66	13.64	13.60	
15	QPSK	75	0	13.69	13.61	13.68	
15	16QAM	1	0	13.68	13.69	13.68	
15	16QAM	1	37	13.70	13.72	13.68	15
15	16QAM	1	74	13.74	13.71	13.69	
15	16QAM	36	0	13.59	13.57	13.55	
15	16QAM	36	20	13.66	13.59	13.62	
15	16QAM	36	39	13.61	13.61	13.55	15
15	16QAM	75	0	13.70	13.62	13.64	
15	64QAM	1	0	13.47	13.47	13.44	
15	64QAM	1	37	13.57	13.54	13.48	
15	64QAM	1	74	13.58	13.53	13.45	15
15	64QAM	36	0	13.68	13.64	13.58	
15	64QAM	36	20	13.84	13.81	13.67	
15	64QAM	36	39	13.77	13.73	13.64	
15	64QAM	75	0	13.77	13.73	13.58	
Channel				37600	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	13.14	13.35	13.34	15
10	QPSK	1	25	13.35	13.34	13.33	
10	QPSK	1	49	13.10	13.34	13.32	
10	QPSK	25	0	13.40	13.40	13.38	
10	QPSK	25	12	13.51	13.42	13.46	15
10	QPSK	25	25	13.43	13.40	13.35	
10	QPSK	50	0	13.46	13.36	13.43	
10	16QAM	1	0	13.33	13.51	13.51	
10	16QAM	1	25	13.48	13.49	13.45	15
10	16QAM	1	49	13.25	13.51	13.47	
10	16QAM	25	0	13.32	13.38	13.32	
10	16QAM	25	12	13.49	13.42	13.47	
10	16QAM	25	25	13.37	13.37	13.31	15
10	16QAM	50	0	13.46	13.40	13.48	
10	64QAM	1	0	12.90	13.25	13.17	
10	64QAM	1	25	13.33	13.32	13.25	
10	64QAM	1	49	13.00	13.27	13.22	15
10	64QAM	25	0	13.44	13.47	13.39	
10	64QAM	25	12	13.66	13.66	13.51	
10	64QAM	25	25	13.55	13.53	13.48	
10	64QAM	50	0	13.51	13.53	13.35	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	13.36	13.39	13.34	15
5	QPSK	1	12	13.38	13.42	13.35	
5	QPSK	1	24	13.32	13.32	13.22	
5	QPSK	12	0	13.47	13.47	13.44	
5	QPSK	12	7	13.50	13.46	13.42	15
5	QPSK	12	13	13.45	13.45	13.39	
5	QPSK	25	0	13.46	13.42	13.36	
5	16QAM	1	0	13.45	13.48	13.44	
5	16QAM	1	12	13.57	13.58	13.59	15
5	16QAM	1	24	13.45	13.45	13.41	
5	16QAM	12	0	13.41	13.43	13.41	
5	16QAM	12	7	13.40	13.42	13.39	
5	16QAM	12	13	13.39	13.44	13.38	15
5	16QAM	25	0	13.52	13.44	13.39	
5	64QAM	1	0	13.20	13.23	13.18	
5	64QAM	1	12	13.29	13.37	13.28	
5	64QAM	1	24	13.33	13.36	13.26	15
5	64QAM	12	0	13.56	13.52	13.45	
5	64QAM	12	7	13.65	13.64	13.58	
5	64QAM	12	13	13.60	13.59	13.53	
5	64QAM	25	0	13.63	13.66	13.57	

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)				2500	2543.5	2587	2630.5	2674	
20	QPSK	1	0	14.72	14.68	14.58	14.38	14.38	16
20	QPSK	1	49	14.68	14.69	15.00	14.60	14.63	
20	QPSK	1	99	14.85	14.75	14.39	14.37	14.25	
20	QPSK	50	0	14.80	14.76	14.76	14.55	14.57	
20	QPSK	50	24	14.76	14.82	15.05	14.67	14.74	16
20	QPSK	50	50	14.74	14.85	14.73	14.70	14.60	
20	QPSK	100	0	14.68	14.77	14.71	14.67	14.54	
20	16QAM	1	0	14.88	14.83	14.81	14.57	14.44	
20	16QAM	1	49	14.83	14.83	14.95	14.81	14.82	16
20	16QAM	1	99	14.78	14.87	14.67	14.41	14.72	
20	16QAM	50	0	14.84	14.76	14.77	14.72	14.64	
20	16QAM	50	24	14.85	14.86	14.88	14.79	14.81	
20	16QAM	50	50	14.80	14.90	14.93	14.71	14.86	16
20	16QAM	100	0	14.76	14.73	14.89	14.70	14.74	
20	64QAM	1	0	14.64	14.42	14.29	14.19	14.12	
20	64QAM	1	49	14.63	14.43	14.74	14.45	14.55	
20	64QAM	1	99	14.49	14.59	14.40	14.09	14.48	16
20	64QAM	50	0	14.82	14.80	14.79	14.74	14.67	
20	64QAM	50	24	14.85	14.87	15.01	14.79	14.82	
20	64QAM	50	50	14.79	14.90	14.93	14.72	14.92	
20	64QAM	100	0	14.75	14.76	14.89	14.70	14.76	
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	14.70	14.54	14.68	14.47	14.43	16
15	QPSK	1	37	14.69	14.71	14.77	14.64	14.59	
15	QPSK	1	74	14.69	14.66	14.53	14.54	14.45	
15	QPSK	36	0	14.79	14.63	14.80	14.57	14.61	
15	QPSK	36	20	14.78	14.86	14.81	14.67	14.75	16
15	QPSK	36	39	14.75	14.84	14.78	14.73	14.63	
15	QPSK	75	0	14.73	14.82	14.77	14.62	14.68	
15	16QAM	1	0	14.93	14.64	14.75	14.73	14.59	
15	16QAM	1	37	14.83	14.78	14.96	14.81	14.82	16
15	16QAM	1	74	14.85	14.66	14.85	14.64	14.83	
15	16QAM	36	0	14.87	14.65	14.76	14.68	14.64	
15	16QAM	36	20	14.84	14.79	14.92	14.79	14.83	
15	16QAM	36	39	14.81	14.72	14.91	14.71	14.81	16
15	16QAM	75	0	14.83	14.78	14.94	14.81	14.76	
15	64QAM	1	0	14.64	14.25	14.50	14.40	14.32	
15	64QAM	1	37	14.59	14.56	14.76	14.55	14.63	
15	64QAM	1	74	14.57	14.41	14.58	14.33	14.63	16
15	64QAM	36	0	14.89	14.72	14.85	14.75	14.70	
15	64QAM	36	20	14.86	14.86	15.00	14.85	14.89	
15	64QAM	36	39	14.86	14.80	14.96	14.75	14.89	
15	64QAM	75	0	14.81	14.81	14.93	14.82	14.76	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	14.54	14.28	14.28	14.21	14.26	16
10	QPSK	1	25	14.49	14.57	14.55	14.42	14.38	
10	QPSK	1	49	14.56	14.22	14.25	14.24	14.22	
10	QPSK	25	0	14.59	14.45	14.54	14.40	14.41	
10	QPSK	25	12	14.60	14.62	14.58	14.55	14.47	16
10	QPSK	25	25	14.63	14.52	14.58	14.45	14.44	
10	QPSK	50	0	14.62	14.57	14.51	14.48	14.41	
10	16QAM	1	0	14.74	14.46	14.54	14.56	14.52	
10	16QAM	1	25	14.68	14.67	14.76	14.67	14.70	16
10	16QAM	1	49	14.64	14.42	14.51	14.46	14.45	
10	16QAM	25	0	14.74	14.51	14.61	14.48	14.57	
10	16QAM	25	12	14.73	14.72	14.82	14.64	14.78	
10	16QAM	25	25	14.70	14.59	14.67	14.61	14.65	16
10	16QAM	50	0	14.81	14.64	14.71	14.54	14.68	
10	64QAM	1	0	14.44	14.13	14.27	14.11	14.16	
10	64QAM	1	25	14.40	14.31	14.55	14.36	14.43	
10	64QAM	1	49	14.36	14.03	14.20	14.05	14.12	16
10	64QAM	25	0	14.75	14.57	14.64	14.54	14.60	
10	64QAM	25	12	14.77	14.77	14.85	14.68	14.77	
10	64QAM	25	25	14.73	14.65	14.72	14.62	14.62	
10	64QAM	50	0	14.66	14.66	14.72	14.53	14.65	
Channel				39675	40146	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5	
5	QPSK	1	0	14.60	14.36	14.49	14.33	14.38	16
5	QPSK	1	12	14.51	14.53	14.58	14.46	14.46	
5	QPSK	1	24	14.54	14.37	14.47	14.31	14.32	
5	QPSK	12	0	14.64	14.62	14.81	14.49	14.56	
5	QPSK	12	7	14.65	14.66	14.68	14.54	14.59	16
5	QPSK	12	13	14.63	14.60	14.67	14.55	14.52	
5	QPSK	25	0	14.58	14.60	14.63	14.49	14.51	
5	16QAM	1	0	14.74	14.64	14.75	14.67	14.72	
5	16QAM	1	12	14.79	14.82	14.85	14.82	14.81	16
5	16QAM	1	24	14.74	14.71	14.77	14.71	14.74	
5	16QAM	12	0	14.66	14.65	14.69	14.63	14.71	
5	16QAM	12	7	14.70	14.69	14.77	14.65	14.75	
5	16QAM	12	13	14.67	14.69	14.76	14.66	14.68	16
5	16QAM	25	0	14.70	14.69	14.78	14.68	14.76	
5	64QAM	1	0	14.50	14.26	14.52	14.28	14.47	
5	64QAM	1	12	14.44	14.35	14.55	14.36	14.45	
5	64QAM	1	24	14.47	14.34	14.54	14.37	14.43	16
5	64QAM	12	0	14.75	14.65	14.73	14.64	14.73	
5	64QAM	12	7	14.77	14.76	14.81	14.64	14.75	
5	64QAM	12	13	14.72	14.71	14.82	14.67	14.71	
5	64QAM	25	0	14.75	14.74	14.81	14.64	14.75	

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)				2500	2543.5	2587	2630.5	2674		
20	QPSK	1	0	14.64	14.55	14.47	14.22	14.21	16	
20	QPSK	1	49	14.56	14.58	14.67	14.48	14.49		
20	QPSK	1	99	14.56	14.65	14.26	14.26	14.12		
20	QPSK	50	0	14.81	14.78	14.77	14.55	14.55		
20	QPSK	50	24	14.76	14.84	14.81	14.65	14.74	16	
20	QPSK	50	50	14.74	14.86	14.75	14.88	14.59		
20	QPSK	100	0	14.68	14.75	14.72	14.66	14.52		
20	16QAM	1	0	15.04	14.84	14.72	14.68	14.57		
20	16QAM	1	49	15.02	14.93	15.09	14.93	15.01	16	
20	16QAM	1	99	14.87	14.88	14.82	14.54	14.87		
20	16QAM	50	0	14.87	14.76	14.76	14.70	14.64		
20	16QAM	50	24	14.88	14.89	14.88	14.78	14.78		
20	16QAM	50	50	14.82	14.87	14.91	14.69	14.87	16	
20	16QAM	100	0	14.79	14.75	14.86	14.69	14.70		
20	64QAM	1	0	14.82	14.71	14.57	14.48	14.38		
20	64QAM	1	49	14.81	14.71	15.00	14.74	14.77		
20	64QAM	1	99	14.79	14.88	14.66	14.36	14.74	16	
20	64QAM	50	0	14.85	14.78	14.80	14.72	14.67		
20	64QAM	50	24	14.88	14.87	15.01	14.79	14.80		
20	64QAM	50	50	14.80	14.89	14.94	14.70	14.90		
20	64QAM	100	0	14.75	14.79	14.80	14.69	14.73	Tune-up limit (dBm)	
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	14.67	14.49	14.61	14.46	14.37	16	
15	QPSK	1	37	14.64	14.65	14.67	14.55	14.61		
15	QPSK	1	74	14.64	14.60	14.47	14.47	14.38		
15	QPSK	36	0	14.83	14.64	14.78	14.54	14.59		
15	QPSK	36	20	14.76	14.83	14.78	14.63	14.74	16	
15	QPSK	36	39	14.74	14.81	14.75	14.71	14.61		
15	QPSK	75	0	14.71	14.79	14.72	14.59	14.65		
15	16QAM	1	0	15.02	14.73	14.88	14.85	14.72		
15	16QAM	1	37	14.97	14.94	15.08	14.96	14.99	16	
15	16QAM	1	74	14.88	14.78	14.96	14.75	14.99		
15	16QAM	36	0	14.84	14.65	14.77	14.67	14.64		
15	16QAM	36	20	14.86	14.80	14.91	14.78	14.84		
15	16QAM	36	39	14.85	14.73	14.89	14.69	14.81	16	
15	16QAM	75	0	14.82	14.78	14.80	14.78	14.72		
15	64QAM	1	0	14.89	14.52	14.75	14.63	14.56		
15	64QAM	1	37	14.88	14.80	15.04	14.82	14.89		
15	64QAM	1	74	14.82	14.86	14.86	14.61	14.88	16	
15	64QAM	36	0	14.87	14.70	14.82	14.73	14.68		
15	64QAM	36	20	14.87	14.86	15.00	14.83	14.87		
15	64QAM	36	39	14.84	14.78	14.95	14.73	14.85		
15	64QAM	75	0	14.80	14.81	14.91	14.79	14.73	Tune-up limit (dBm)	
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2638	2685		
10	QPSK	1	0	14.44	14.18	14.21	14.06	14.15	16	
10	QPSK	1	25	14.43	14.41	14.46	14.32	14.36		
10	QPSK	1	49	14.42	14.20	14.20	14.03	14.10		
10	QPSK	25	0	14.61	14.46	14.50	14.39	14.40		
10	QPSK	25	12	14.62	14.64	14.59	14.53	14.49	16	
10	QPSK	25	25	14.57	14.52	14.55	14.41	14.43		
10	QPSK	50	0	14.63	14.52	14.49	14.48	14.39		
10	16QAM	1	0	14.87	14.56	14.66	14.58	14.63		
10	16QAM	1	25	14.82	14.79	14.82	14.83	14.82	16	
10	16QAM	1	49	14.81	14.57	14.67	14.60	14.59		
10	16QAM	25	0	14.75	14.52	14.64	14.55	14.56		
10	16QAM	25	12	14.71	14.70	14.82	14.68	14.77		
10	16QAM	25	25	14.72	14.59	14.68	14.61	14.62	16	
10	16QAM	50	0	14.63	14.62	14.72	14.57	14.66		
10	64QAM	1	0	14.80	14.37	14.57	14.40	14.46		
10	64QAM	1	25	14.72	14.65	14.90	14.69	14.76		
10	64QAM	1	49	14.74	14.45	14.60	14.46	14.50	16	
10	64QAM	25	0	14.78	14.61	14.69	14.56	14.64		
10	64QAM	25	12	14.80	14.76	14.86	14.68	14.61		
10	64QAM	25	25	14.77	14.68	14.77	14.64	14.68		
10	64QAM	50	0	14.67	14.63	14.75	14.54	14.63	Tune-up limit (dBm)	
Channel				39675	40146	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5		
5	QPSK	1	0	14.48	14.30	14.39	14.22	14.30	16	
5	QPSK	1	12	14.46	14.49	14.49	14.36	14.41		
5	QPSK	1	24	14.44	14.30	14.40	14.24	14.23		
5	QPSK	12	0	14.64	14.59	14.61	14.48	14.52		
5	QPSK	12	7	14.66	14.63	14.59	14.50	14.54	16	
5	QPSK	12	13	14.60	14.58	14.60	14.51	14.51		
5	QPSK	25	0	14.59	14.57	14.54	14.44	14.48		
5	16QAM	1	0	14.88	14.81	14.83	14.77	14.82		
5	16QAM	1	12	14.82	14.91	14.89	14.86	14.84	16	
5	16QAM	1	24	14.84	14.86	14.87	14.83	14.78		
5	16QAM	12	0	14.72	14.84	14.74	14.65	14.73		
5	16QAM	12	7	14.73	14.75	14.81	14.69	14.78		
5	16QAM	12	13	14.71	14.70	14.74	14.68	14.74	16	
5	16QAM	25	0	14.68	14.70	14.79	14.68	14.74		
5	64QAM	1	0	14.78	14.63	14.74	14.63	14.72		
5	64QAM	1	12	14.75	14.71	14.81	14.69	14.73		
5	64QAM	1	24	14.76	14.69	14.84	14.71	14.68	16	
5	64QAM	12	0	14.72	14.68	14.75	14.60	14.74		
5	64QAM	12	7	14.76	14.74	14.83	14.64	14.75		
5	64QAM	12	13	14.76	14.73	14.79	14.69	14.68		
5	64QAM	25	0	14.71	14.71	14.80	14.62	14.75	Tune-up limit (dBm)	



Band 38_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				37650	38000	38150	20.5
Frequency (MHz)				2300	2305	2310	
20	QPSK	1	0	19.73	19.69	19.63	20.5
20	QPSK	1	49	19.76	19.71	19.67	
20	QPSK	1	99	19.76	19.70	19.63	
20	QPSK	50	0	19.63	19.58	19.52	
20	QPSK	50	24	19.83	19.75	19.61	
20	QPSK	50	50	19.72	19.68	19.60	
20	QPSK	100	0	19.70	19.67	19.52	20.5
20	16QAM	1	0	19.87	19.86	19.78	
20	16QAM	1	49	19.86	19.81	19.77	
20	16QAM	1	99	19.90	19.83	19.78	
20	16QAM	50	0	19.65	19.62	19.55	
20	16QAM	50	24	19.83	19.80	19.66	
20	16QAM	50	50	19.75	19.70	19.63	20.5
20	16QAM	100	0	19.74	19.69	19.54	
20	64QAM	1	0	19.58	19.57	19.49	
20	64QAM	1	49	19.62	19.53	19.51	
20	64QAM	1	99	19.64	19.58	19.53	
20	64QAM	50	0	19.64	19.59	19.52	
20	64QAM	50	24	19.83	19.76	19.63	20.5
20	64QAM	50	50	19.74	19.69	19.62	
20	64QAM	100	0	19.71	19.66	19.52	
Channel				37625	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.68	19.65	19.56	20.5
15	QPSK	1	37	19.67	19.66	19.57	
15	QPSK	1	74	19.70	19.69	19.60	
15	QPSK	36	0	19.65	19.60	19.55	
15	QPSK	36	20	19.82	19.76	19.62	
15	QPSK	36	39	19.74	19.69	19.61	
15	16QAM	1	0	19.87	19.84	19.75	20.5
15	16QAM	1	37	19.77	19.78	19.75	
15	16QAM	1	74	19.91	19.84	19.77	
15	16QAM	36	0	19.61	19.59	19.51	
15	16QAM	36	20	19.79	19.75	19.61	
15	16QAM	36	39	19.72	19.69	19.60	
15	16QAM	75	0	19.78	19.73	19.58	20.5
15	64QAM	1	0	19.54	19.53	19.43	
15	64QAM	1	37	19.59	19.52	19.51	
15	64QAM	1	74	19.64	19.54	19.51	
15	64QAM	36	0	19.66	19.63	19.55	
15	64QAM	36	20	19.83	19.79	19.62	20.5
15	64QAM	36	39	19.76	19.71	19.65	
15	64QAM	75	0	19.75	19.72	19.58	
Channel				37600	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2375	2395	2415	
10	QPSK	1	0	19.04	19.34	19.26	20.5
10	QPSK	1	25	19.37	19.32	19.27	
10	QPSK	1	49	19.14	19.42	19.32	
10	QPSK	25	0	19.40	19.37	19.29	
10	QPSK	25	12	19.56	19.53	19.37	
10	QPSK	25	25	19.50	19.47	19.38	
10	QPSK	50	0	19.48	19.46	19.30	20.5
10	16QAM	1	0	19.40	19.70	19.64	
10	16QAM	1	25	19.75	19.74	19.61	
10	16QAM	1	49	19.47	19.70	19.64	
10	16QAM	25	0	19.42	19.39	19.30	
10	16QAM	25	12	19.64	19.58	19.42	
10	16QAM	25	25	19.52	19.50	19.42	20.5
10	16QAM	50	0	19.54	19.50	19.34	
10	64QAM	1	0	19.26	19.62	19.50	
10	64QAM	1	25	19.68	19.67	19.60	
10	64QAM	1	49	19.41	19.68	19.60	
10	64QAM	25	0	19.48	19.48	19.40	20.5
10	64QAM	25	12	19.67	19.66	19.51	
10	64QAM	25	25	19.57	19.56	19.50	
10	64QAM	50	0	19.53	19.53	19.38	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.27	19.22	19.19	20.5
5	QPSK	1	12	19.36	19.36	19.30	
5	QPSK	1	24	19.35	19.30	19.24	
5	QPSK	12	0	19.52	19.45	19.35	
5	QPSK	12	7	19.57	19.57	19.46	
5	QPSK	12	13	19.54	19.52	19.43	
5	QPSK	25	0	19.51	19.48	19.41	20.5
5	16QAM	1	0	19.57	19.55	19.44	
5	16QAM	1	12	19.66	19.67	19.57	
5	16QAM	1	24	19.67	19.64	19.56	
5	16QAM	12	0	19.55	19.48	19.40	
5	16QAM	12	7	19.60	19.58	19.51	
5	16QAM	12	13	19.59	19.52	19.47	20.5
5	16QAM	25	0	19.59	19.57	19.45	
5	64QAM	1	0	19.42	19.49	19.37	
5	64QAM	1	12	19.58	19.62	19.53	
5	64QAM	1	24	19.58	19.60	19.48	
5	64QAM	12	0	19.53	19.54	19.44	20.5
5	64QAM	12	7	19.63	19.62	19.54	
5	64QAM	12	13	19.61	19.60	19.50	
5	64QAM	25	0	19.59	19.62	19.51	

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	19.73	19.74	19.47	19.47	19.31	20.5
20	QPSK	1	49	19.78	19.80	19.83	19.76	19.74	
20	QPSK	1	99	19.71	19.79	19.56	19.34	19.64	
20	QPSK	50	0	19.81	19.73	19.74	19.68	19.60	
20	QPSK	50	24	19.82	19.84	19.95	19.73	19.79	
20	QPSK	50	50	19.78	19.83	19.86	19.88	19.78	20.5
20	QPSK	100	0	19.75	19.75	19.85	19.62	19.67	
20	16QAM	1	0	19.93	19.92	19.80	19.59	19.42	
20	16QAM	1	49	19.84	19.89	19.91	19.87	19.85	
20	16QAM	1	99	19.83	19.99	19.65	19.45	19.74	
20	16QAM	50	0	19.88	19.77	19.76	19.72	19.64	20.5
20	16QAM	50	24	19.87	19.88	19.95	19.78	19.79	
20	16QAM	50	50	19.83	19.87	19.91	19.71	19.84	
20	16QAM	100	0	19.79	19.77	19.87	19.65	19.69	
20	64QAM	1	0	19.72	19.70	19.32	19.32	19.13	
20	64QAM	1	49	19.62	19.60	19.73	19.60	19.58	20.5
20	64QAM	1	99	19.60	19.95	19.42	19.20	19.52	
20	64QAM	50	0	19.87	19.77	19.76	19.70	19.60	
20	64QAM	50	24	19.86	19.87	19.95	19.76	19.78	
20	64QAM	50	50	19.83	19.86	19.90	19.70	19.84	
20	64QAM	100	0	19.79	19.76	19.86	19.65	19.69	
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	19.76	19.47	19.58	19.51	19.49	20.5
15	QPSK	1	37	19.73	19.63	19.61	19.66	19.68	
15	QPSK	1	74	19.71	19.46	19.70	19.41	19.67	
15	QPSK	36	0	19.84	19.69	19.76	19.69	19.65	
15	QPSK	36	20	19.84	19.84	19.94	19.81	19.83	
15	QPSK	36	39	19.80	19.75	19.90	19.71	19.83	20.5
15	QPSK	75	0	19.80	19.77	19.67	19.74	19.69	
15	16QAM	1	0	19.93	19.72	19.77	19.77	19.58	
15	16QAM	1	37	19.79	19.90	19.86	19.89	19.86	
15	16QAM	1	74	19.85	19.79	19.84	19.65	19.88	
15	16QAM	36	0	19.83	19.67	19.76	19.68	19.61	20.5
15	16QAM	36	20	19.80	19.83	19.91	19.80	19.82	
15	16QAM	36	39	19.79	19.74	19.89	19.71	19.80	
15	16QAM	75	0	19.85	19.79	19.91	19.78	19.72	
15	64QAM	1	0	19.67	19.43	19.44	19.51	19.31	
15	64QAM	1	37	19.65	19.72	19.72	19.65	19.61	20.5
15	64QAM	1	74	19.62	19.62	19.55	19.44	19.63	
15	64QAM	36	0	19.87	19.70	19.81	19.71	19.64	
15	64QAM	36	20	19.88	19.88	19.98	19.83	19.87	
15	64QAM	36	39	19.85	19.76	19.92	19.71	19.84	
15	64QAM	75	0	19.84	19.80	19.90	19.76	19.71	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	19.45	19.20	19.28	19.16	19.19	20.5
10	QPSK	1	25	19.44	19.47	19.54	19.43	19.44	
10	QPSK	1	49	19.50	19.27	19.34	19.27	19.19	
10	QPSK	25	0	19.84	19.49	19.58	19.46	19.50	
10	QPSK	25	12	19.85	19.64	19.73	19.53	19.65	
10	QPSK	25	25	19.62	19.55	19.65	19.52	19.54	20.5
10	QPSK	50	0	19.69	19.59	19.64	19.48	19.58	
10	16QAM	1	0	19.85	19.57	19.67	19.54	19.52	
10	16QAM	1	25	19.81	19.66	19.67	19.60	19.79	
10	16QAM	1	49	19.80	19.58	19.64	19.55	19.54	
10	16QAM	25	0	19.69	19.56	19.62	19.52	19.52	20.5
10	16QAM	25	12	19.72	19.77	19.80	19.62	19.71	
10	16QAM	25	25	19.67	19.63	19.67	19.57	19.61	
10	16QAM	50	0	19.63	19.67	19.69	19.52	19.62	
10	64QAM	1	0	19.78	19.47	19.49	19.40	19.46	
10	64QAM	1	25	19.79	19.84	19.83	19.82	19.78	20.5
10	64QAM	1	49	19.75	19.60	19.57	19.46	19.50	
10	64QAM	25	0	19.76	19.58	19.67	19.53	19.60	
10	64QAM	25	12	19.77	19.76	19.80	19.64	19.76	
10	64QAM	25	25	19.73	19.66	19.72	19.58	19.67	
10	64QAM	50	0	19.61	19.65	19.68	19.49	19.64	
Channel				39675	40146	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5	
5	QPSK	1	0	19.63	19.44	19.50	19.38	19.47	20.5
5	QPSK	1	12	19.43	19.48	19.57	19.47	19.40	
5	QPSK	1	24	19.46	19.54	19.53	19.43	19.43	
5	QPSK	12	0	19.64	19.61	19.65	19.53	19.64	
5	QPSK	12	7	19.71	19.67	19.74	19.59	19.66	
5	QPSK	12	13	19.66	19.66	19.73	19.60	19.61	20.5
5	QPSK	25	0	19.60	19.60	19.69	19.51	19.60	
5	16QAM	1	0	19.78	19.61	19.79	19.63	19.73	
5	16QAM	1	12	19.76	19.66	19.84	19.67	19.70	
5	16QAM	1	24	19.77	19.64	19.84	19.68	19.69	
5	16QAM	12	0	19.71	19.65	19.72	19.55	19.67	20.5
5	16QAM	12	7	19.74	19.72	19.80	19.59	19.70	
5	16QAM	12	13	19.67	19.68	19.75	19.63	19.66	
5	16QAM	25	0	19.68	19.70	19.78	19.59	19.67	
5	64QAM	1	0	19.73	19.63	19.67	19.55	19.66	
5	64QAM	1	12	19.70	19.76	19.77	19.64	19.71	20.5
5	64QAM	1	24	19.73	19.71	19.75	19.62	19.66	
5	64QAM	12	0	19.73	19.65	19.71	19.56	19.69	
5	64QAM	12	7	19.74	19.72	19.79	19.64	19.72	
5	64QAM	12	13	19.69	19.72	19.78	19.64	19.69	
5	64QAM	25	0	19.74	19.71	19.77	19.60	19.69	

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)				2500	2543.5	2587	2630.5	2674		
20	QPSK	1	0	19.86	19.65	19.38	19.38	19.19	20.5	
20	QPSK	1	49	19.82	19.63	19.71	19.61	19.58		
20	QPSK	1	99	19.83	19.89	19.44	19.21	19.53		
20	QPSK	50	0	19.83	19.74	19.73	19.68	19.60		
20	QPSK	50	24	19.83	19.85	19.83	19.73	19.75		
20	QPSK	50	50	19.78	19.84	19.85	19.85	19.82	20.5	
20	QPSK	100	0	19.77	19.74	19.84	19.85	19.87		
20	16QAM	1	0	20.13	20.12	19.76	19.74	19.60		
20	16QAM	1	49	20.00	20.08	20.12	19.97	19.94		
20	16QAM	1	99	19.87	20.16	19.84	19.59	19.85		
20	16QAM	50	0	19.86	19.77	19.77	19.71	19.82	20.5	
20	16QAM	50	24	19.88	19.88	19.88	19.78	19.79		
20	16QAM	50	50	19.82	19.87	19.91	19.71	19.87		
20	16QAM	100	0	19.79	19.76	19.87	19.66	19.70		
20	64QAM	1	0	19.85	19.80	19.58	19.55	19.36		
20	64QAM	1	49	19.84	19.84	19.87	19.83	19.78	20.5	
20	64QAM	1	99	19.83	20.02	19.67	19.44	19.75		
20	64QAM	50	0	19.88	19.75	19.77	19.71	19.61		
20	64QAM	50	24	19.89	19.86	19.87	19.74	19.80		
20	64QAM	50	50	19.84	19.88	19.88	19.68	19.82		
20	64QAM	100	0	19.80	19.79	19.84	19.85	19.87	20.5	
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	19.73	19.43	19.54	19.49	19.37	20.5	
15	QPSK	1	37	19.69	19.63	19.76	19.60	19.66		
15	QPSK	1	74	19.68	19.44	19.63	19.37	19.65		
15	QPSK	36	0	19.86	19.68	19.75	19.68	19.64		
15	QPSK	36	20	19.83	19.85	19.91	19.78	19.85		
15	QPSK	36	39	19.81	19.77	19.89	19.71	19.83	20.5	
15	QPSK	75	0	19.81	19.76	19.67	19.71	19.67		
15	16QAM	1	0	20.03	19.90	19.87	19.88	19.74		
15	16QAM	1	37	20.06	20.18	20.10	19.99	20.00		
15	16QAM	1	74	19.99	19.91	19.99	19.81	19.96		
15	16QAM	36	0	19.86	19.69	19.76	19.69	19.62	20.5	
15	16QAM	36	20	19.83	19.84	19.91	19.80	19.82		
15	16QAM	36	39	19.81	19.77	19.89	19.71	19.82		
15	16QAM	75	0	19.84	19.82	19.88	19.77	19.72		
15	64QAM	1	0	19.85	19.68	19.72	19.71	19.57		
15	64QAM	1	37	19.83	20.03	19.94	19.85	19.86	20.5	
15	64QAM	1	74	19.80	19.85	19.80	19.63	19.84		
15	64QAM	36	0	19.87	19.72	19.76	19.71	19.64		
15	64QAM	36	20	19.89	19.86	19.95	19.80	19.83		
15	64QAM	36	39	19.87	19.79	19.91	19.72	19.83		
15	64QAM	75	0	19.84	19.80	19.90	19.77	19.69	20.5	
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	19.53	19.21	19.28	19.14	19.20	20.5	
10	QPSK	1	25	19.44	19.51	19.54	19.44	19.45		
10	QPSK	1	49	19.46	19.33	19.35	19.27	19.27		
10	QPSK	25	0	19.85	19.52	19.61	19.45	19.53		
10	QPSK	25	12	19.87	19.68	19.77	19.55	19.67		
10	QPSK	25	25	19.66	19.56	19.67	19.52	19.57	20.5	
10	QPSK	50	0	19.60	19.62	19.68	19.48	19.59		
10	16QAM	1	0	19.91	19.59	19.69	19.52	19.57		
10	16QAM	1	25	19.84	19.86	19.88	19.76	19.80		
10	16QAM	1	49	19.82	19.60	19.69	19.56	19.54		
10	16QAM	25	0	19.69	19.56	19.64	19.53	19.53	20.5	
10	16QAM	25	12	19.72	19.74	19.81	19.63	19.71		
10	16QAM	25	25	19.66	19.63	19.68	19.57	19.60		
10	16QAM	50	0	19.85	19.86	19.71	19.54	19.64		
10	64QAM	1	0	19.83	19.50	19.52	19.42	19.48		
10	64QAM	1	25	19.75	19.99	19.84	19.78	19.77	20.5	
10	64QAM	1	49	19.71	19.62	19.54	19.45	19.53		
10	64QAM	25	0	19.76	19.62	19.65	19.55	19.62		
10	64QAM	25	12	19.76	19.79	19.86	19.63	19.79		
10	64QAM	25	25	19.74	19.67	19.73	19.61	19.68		
10	64QAM	50	0	19.62	19.63	19.69	19.50	19.63	20.5	
Channel				38675	40146	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5		
5	QPSK	1	0	19.50	19.50	19.50	19.42	19.48	20.5	
5	QPSK	1	12	19.46	19.47	19.56	19.48	19.48		
5	QPSK	1	24	19.50	19.52	19.50	19.45	19.44		
5	QPSK	12	0	19.68	19.60	19.70	19.54	19.64		
5	QPSK	12	7	19.73	19.69	19.77	19.55	19.66		
5	QPSK	12	13	19.66	19.66	19.73	19.61	19.63	20.5	
5	QPSK	25	0	19.63	19.60	19.72	19.52	19.61		
5	16QAM	1	0	19.83	19.61	19.79	19.63	19.70		
5	16QAM	1	12	19.75	19.67	19.86	19.69	19.69		
5	16QAM	1	24	19.83	19.71	19.87	19.68	19.70		
5	16QAM	12	0	19.71	19.66	19.72	19.57	19.68	20.5	
5	16QAM	12	7	19.74	19.71	19.77	19.58	19.67		
5	16QAM	12	13	19.70	19.72	19.76	19.65	19.62		
5	16QAM	25	0	19.72	19.71	19.78	19.59	19.68		
5	64QAM	1	0	19.73	19.65	19.68	19.56	19.69		
5	64QAM	1	12	19.73	19.75	19.77	19.69	19.69	20.5	
5	64QAM	1	24	19.72	19.73	19.76	19.66	19.68		
5	64QAM	12	0	19.73	19.67	19.74	19.61	19.72		
5	64QAM	12	7	19.75	19.73	19.80	19.61	19.75		
5	64QAM	12	13	19.72	19.73	19.77	19.64	19.69		
5	64QAM	25	0	19.73	19.71	19.80	19.58	19.70	20.5	

Band 38_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				37650	38000	38150	19
Frequency (MHz)				2568	2595	2610	
20	QPSK	1	0	18.15	18.14	18.11	19
20	QPSK	1	49	18.19	18.18	18.12	
20	QPSK	1	99	18.19	18.14	18.08	19
20	QPSK	50	0	18.03	18.02	17.97	
20	QPSK	50	24	18.24	18.21	18.08	19
20	QPSK	50	50	18.15	18.12	18.07	
20	QPSK	100	0	18.14	18.11	18.00	19
20	16QAM	1	0	18.35	18.34	18.25	
20	16QAM	1	49	18.29	18.22	18.22	19
20	16QAM	1	99	18.31	18.27	18.23	
20	16QAM	50	0	18.05	18.07	18.02	19
20	16QAM	50	24	18.28	18.27	18.13	
20	16QAM	50	50	18.20	18.18	18.12	19
20	16QAM	100	0	18.18	18.14	18.02	
20	64QAM	1	0	18.03	18.10	18.03	19
20	64QAM	1	49	18.08	18.03	18.05	
20	64QAM	1	99	18.14	18.07	18.05	19
20	64QAM	50	0	18.10	18.07	18.03	
20	64QAM	50	24	18.32	18.28	18.14	19
20	64QAM	50	50	18.21	18.18	18.13	
20	64QAM	100	0	18.19	18.15	18.03	19
Channel				37625	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	19
15	QPSK	1	0	18.15	18.13	18.08	
15	QPSK	1	37	18.15	18.10	17.88	19
15	QPSK	1	74	18.15	18.13	18.03	
15	QPSK	36	0	18.10	18.07	18.01	19
15	QPSK	36	20	18.27	18.21	18.11	
15	QPSK	36	39	18.17	18.15	18.09	19
15	QPSK	75	0	18.10	18.16	18.01	
15	16QAM	1	0	18.30	18.29	18.21	19
15	16QAM	1	37	18.23	18.20	18.19	
15	16QAM	1	74	18.34	18.26	18.20	19
15	16QAM	36	0	18.11	18.06	17.96	
15	16QAM	36	20	18.24	18.20	18.04	19
15	16QAM	36	39	18.20	18.12	18.09	
15	16QAM	75	0	18.24	18.19	18.04	19
15	64QAM	1	0	17.99	18.01	17.95	
15	64QAM	1	37	18.08	18.01	18.04	19
15	64QAM	1	74	18.11	17.97	18.00	
15	64QAM	36	0	18.16	18.10	18.05	19
15	64QAM	36	20	18.32	18.28	18.15	
15	64QAM	36	39	18.24	18.19	18.15	19
15	64QAM	75	0	18.23	18.19	18.08	
Channel				37600	38000	38200	19
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	18.15	18.11	18.08	19
10	QPSK	1	25	18.10	18.15	17.91	
10	QPSK	1	49	18.24	18.22	18.04	19
10	QPSK	25	0	18.08	17.97	17.95	
10	QPSK	25	12	18.29	18.11	18.19	19
10	QPSK	25	25	18.27	18.23	18.08	
10	QPSK	50	0	18.24	18.18	18.10	19
10	16QAM	1	0	18.21	18.34	18.23	
10	16QAM	1	25	18.25	18.24	18.12	19
10	16QAM	1	49	18.32	18.31	18.27	
10	16QAM	25	0	18.04	18.01	17.99	19
10	16QAM	25	12	18.26	18.20	18.08	
10	16QAM	25	25	18.10	18.09	18.03	19
10	16QAM	50	0	18.34	18.11	17.96	
10	64QAM	1	0	18.09	18.06	17.99	19
10	64QAM	1	25	18.02	17.92	18.11	
10	64QAM	1	49	18.20	17.91	17.98	19
10	64QAM	25	0	18.07	18.03	18.00	
10	64QAM	25	12	18.27	18.27	18.08	19
10	64QAM	25	25	18.26	18.12	18.12	
10	64QAM	50	0	18.21	18.20	18.09	19
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	19
5	QPSK	1	0	18.25	18.03	18.07	
5	QPSK	1	12	18.10	18.04	17.92	19
5	QPSK	1	24	18.09	18.16	17.95	
5	QPSK	12	0	18.10	18.06	17.97	19
5	QPSK	12	7	18.26	18.13	18.06	
5	QPSK	12	13	18.16	18.18	18.13	19
5	QPSK	25	0	18.20	18.06	18.08	
5	16QAM	1	0	18.28	18.21	18.28	19
5	16QAM	1	12	18.31	18.28	18.23	
5	16QAM	1	24	18.35	18.24	18.17	19
5	16QAM	12	0	18.06	17.96	17.94	
5	16QAM	12	7	18.17	18.17	18.10	19
5	16QAM	12	13	18.16	18.06	18.12	
5	16QAM	25	0	18.34	18.14	18.01	19
5	64QAM	1	0	18.00	18.02	17.89	
5	64QAM	1	12	18.12	18.08	18.13	19
5	64QAM	1	24	18.13	17.96	17.96	
5	64QAM	12	0	18.19	18.14	18.16	19
5	64QAM	12	7	18.32	18.23	18.14	
5	64QAM	12	13	18.34	18.20	18.09	19
5	64QAM	25	0	18.14	18.23	18.10	

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)				2500	2543.5	2587	2630.5	2674	
20	QPSK	1	0	18.71	18.65	18.48	18.45	18.32	19.5
20	QPSK	1	49	18.73	18.70	18.82	18.76	18.70	
20	QPSK	1	99	18.86	18.70	18.53	18.34	18.63	
20	QPSK	50	0	18.77	18.68	18.71	18.67	18.59	
20	QPSK	50	24	18.77	18.80	18.92	18.72	18.75	
20	QPSK	50	0	18.72	18.76	18.85	18.85	18.81	19.5
20	QPSK	100	0	18.69	18.68	18.81	18.63	18.66	
20	16QAM	1	0	18.93	18.75	18.80	18.63	18.44	
20	16QAM	1	49	18.79	18.72	18.94	18.92	18.82	
20	16QAM	1	99	18.77	18.85	18.68	18.51	18.75	
20	16QAM	50	0	18.91	18.75	18.74	18.71	18.64	19.5
20	16QAM	50	24	18.82	18.86	18.97	18.78	18.78	
20	16QAM	50	50	18.77	18.85	18.89	18.72	18.83	
20	16QAM	100	0	18.71	18.74	18.85	18.65	18.71	
20	64QAM	1	0	18.65	18.73	18.29	18.43	18.13	
20	64QAM	1	49	18.57	18.64	18.71	18.65	18.57	19.5
20	64QAM	1	99	18.53	18.87	18.37	18.29	18.51	
20	64QAM	50	0	18.83	18.74	18.77	18.72	18.64	
20	64QAM	50	24	18.83	18.83	18.95	18.78	18.80	
20	64QAM	50	50	18.76	18.82	18.90	18.69	18.85	
20	64QAM	100	0	18.73	18.74	18.86	18.69	18.70	19.5
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	18.72	18.49	18.55	18.50	18.39	19.5
15	QPSK	1	37	18.64	18.71	18.76	18.56	18.66	
15	QPSK	1	74	18.65	18.49	18.63	18.38	18.65	
15	QPSK	36	0	18.79	18.63	18.74	18.69	18.62	
15	QPSK	36	20	18.80	18.76	18.93	18.82	18.84	
15	QPSK	36	39	18.74	18.72	18.86	18.71	18.81	19.5
15	QPSK	75	0	18.75	18.72	18.86	18.73	18.69	
15	16QAM	1	0	18.99	18.54	18.77	18.80	18.62	
15	16QAM	1	37	18.78	18.65	18.93	18.91	18.85	
15	16QAM	1	74	18.84	18.60	18.82	18.70	18.89	
15	16QAM	36	0	18.77	18.65	18.72	18.69	18.60	19.5
15	16QAM	36	20	18.77	18.79	18.90	18.79	18.81	
15	16QAM	36	39	18.73	18.70	18.85	18.72	18.81	
15	16QAM	75	0	18.76	18.77	18.88	18.77	18.73	
15	64QAM	1	0	18.64	18.49	18.43	18.44	18.32	
15	64QAM	1	37	18.69	18.71	18.73	18.67	18.62	19.5
15	64QAM	1	74	18.58	18.54	18.58	18.45	18.63	
15	64QAM	36	0	18.83	18.67	18.79	18.73	18.68	
15	64QAM	36	20	18.83	18.85	18.95	18.85	18.85	
15	64QAM	36	39	18.78	18.74	18.93	18.74	18.84	
15	64QAM	75	0	18.77	18.77	18.91	18.75	18.72	19.5
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2638	2683	
10	QPSK	1	0	18.80	18.44	18.48	18.48	18.34	19.5
10	QPSK	1	25	18.61	18.71	18.80	18.59	18.72	
10	QPSK	1	49	18.69	18.41	18.54	18.47	18.56	
10	QPSK	25	0	18.69	18.56	18.76	18.75	18.66	
10	QPSK	25	12	18.75	18.72	18.87	18.89	18.81	
10	QPSK	25	25	18.67	18.82	18.84	18.81	18.87	19.5
10	QPSK	50	0	18.68	18.62	18.95	18.71	18.66	
10	16QAM	1	0	18.84	18.54	18.77	18.67	18.58	
10	16QAM	1	25	18.84	18.70	18.95	18.81	18.84	
10	16QAM	1	49	18.76	18.57	18.92	18.67	18.84	
10	16QAM	25	0	18.77	18.63	18.63	18.69	18.53	19.5
10	16QAM	25	12	18.76	18.71	18.93	18.81	18.78	
10	16QAM	25	25	18.88	18.76	18.91	18.68	18.74	
10	16QAM	50	0	18.81	18.67	18.81	18.62	18.76	
10	64QAM	1	0	18.55	18.49	18.48	18.42	18.22	
10	64QAM	1	25	18.55	18.66	18.66	18.75	18.56	19.5
10	64QAM	1	49	18.48	18.58	18.60	18.51	18.66	
10	64QAM	25	0	18.73	18.65	18.81	18.72	18.58	
10	64QAM	25	12	18.86	18.76	18.85	18.85	18.94	
10	64QAM	25	25	18.88	18.80	18.87	18.73	18.74	
10	64QAM	50	0	18.86	18.80	18.90	18.69	18.66	19.5
Channel				39675	40146	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.38	2687.5	
5	QPSK	1	0	18.67	18.56	18.56	18.48	18.41	19.5
5	QPSK	1	12	18.58	18.78	18.89	18.65	18.82	
5	QPSK	1	24	18.71	18.42	18.54	18.41	18.56	
5	QPSK	12	0	18.75	18.63	18.78	18.74	18.54	
5	QPSK	12	7	18.83	18.73	18.85	18.78	18.91	
5	QPSK	12	13	18.67	18.66	18.87	18.79	18.79	19.5
5	QPSK	25	0	18.77	18.62	18.95	18.63	18.73	
5	16QAM	1	0	18.80	18.56	18.80	18.85	18.68	
5	16QAM	1	12	18.88	18.63	18.95	18.92	18.79	
5	16QAM	1	24	18.94	18.56	18.81	18.63	18.86	
5	16QAM	12	0	18.73	18.66	18.74	18.72	18.65	19.5
5	16QAM	12	7	18.79	18.82	18.93	18.75	18.72	
5	16QAM	12	13	18.75	18.65	18.80	18.70	18.72	
5	16QAM	25	0	18.76	18.71	18.86	18.81	18.82	
5	64QAM	1	0	18.62	18.57	18.47	18.36	18.27	
5	64QAM	1	12	18.63	18.64	18.81	18.71	18.62	19.5
5	64QAM	1	24	18.59	18.52	18.68	18.50	18.53	
5	64QAM	12	0	18.88	18.73	18.88	18.65	18.65	
5	64QAM	12	7	18.76	18.93	18.89	18.85	18.80	
5	64QAM	12	13	18.79	18.67	18.90	18.77	18.67	
5	64QAM	25	0	18.73	18.75	18.84	18.77	18.70	



Band 41 (2.6G Band)_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	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				39790	39790	40185	40620	41055	41490	
Frequency (MHz)				2510	2508	2549.5	2593	2634.5	2670	
20	QPSK	1	0	18.60	18.61	18.50	18.38	18.38	18.21	19.5
20	QPSK	1	49	18.56	18.62	18.57	18.73	18.63	18.61	
20	QPSK	1	99	18.55	18.61	18.60	18.43	18.21	18.53	
20	QPSK	50	0	18.77	18.79	18.68	18.71	18.68	18.60	
20	QPSK	50	24	18.76	18.77	18.78	18.53	18.74	18.75	
20	QPSK	50	50	18.73	18.74	18.76	18.45	18.68	18.62	19.5
20	QPSK	100	0	18.69	18.70	18.68	18.81	18.64	18.66	
20	16QAM	1	0	19.03	19.06	18.89	18.70	18.93	18.57	
20	16QAM	1	49	18.94	19.00	18.95	19.10	19.07	19.01	
20	16QAM	1	99	18.95	18.90	18.98	18.75	18.65	18.91	
20	16QAM	50	0	18.90	18.94	18.75	18.75	18.72	18.64	19.5
20	16QAM	50	24	18.82	18.82	18.88	18.96	18.78	18.79	
20	16QAM	50	50	18.78	18.78	18.87	18.88	18.73	18.86	
20	16QAM	100	0	18.73	18.74	18.75	18.84	18.66	18.72	
20	64QAM	1	0	18.91	18.92	18.93	18.53	18.70	18.40	
20	64QAM	1	49	18.90	18.95	18.85	18.98	18.88	18.93	19.5
20	64QAM	1	99	18.77	18.81	19.08	18.64	18.49	18.79	
20	64QAM	50	0	18.81	18.85	18.75	18.77	18.71	18.64	
20	64QAM	50	24	18.82	18.84	18.87	18.97	18.76	18.80	
20	64QAM	50	50	18.78	18.78	18.84	18.90	18.69	18.86	
20	64QAM	100	0	18.73	18.78	18.75	18.86	18.70	18.70	19.5
Channel				39785	39725	40173	40620	41068	41515	
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	18.63	18.67	18.44	18.53	18.45	18.35	19.5
15	QPSK	1	37	18.58	18.61	18.65	18.70	18.59	18.61	
15	QPSK	1	74	18.59	18.61	18.43	18.44	18.23	18.61	
15	QPSK	36	0	18.75	18.79	18.63	18.73	18.68	18.61	
15	QPSK	36	20	18.75	18.76	18.77	18.92	18.80	18.80	
15	QPSK	36	39	18.73	18.73	18.67	18.86	18.69	18.79	19.5
15	QPSK	75	0	18.70	18.75	18.72	18.84	18.69	18.67	
15	16QAM	1	0	19.00	19.00	18.75	18.84	18.91	18.72	
15	16QAM	1	37	18.94	18.96	18.90	19.08	19.09	18.98	
15	16QAM	1	74	18.92	18.96	18.73	18.97	18.79	19.00	
15	16QAM	36	0	18.77	18.78	18.67	18.73	18.69	18.61	19.5
15	16QAM	36	20	18.74	18.77	18.82	18.90	18.78	18.80	
15	16QAM	36	39	18.72	18.74	18.74	18.86	18.71	18.80	
15	16QAM	75	0	18.73	18.77	18.78	18.88	18.76	18.72	
15	64QAM	1	0	18.88	18.89	18.70	18.69	18.74	18.54	
15	64QAM	1	37	18.88	18.90	18.97	18.95	18.87	18.83	19.5
15	64QAM	1	74	18.78	18.83	18.81	18.80	18.58	18.84	
15	64QAM	36	0	18.79	18.82	18.66	18.77	18.70	18.65	
15	64QAM	36	20	18.81	18.84	18.83	18.96	18.84	18.84	
15	64QAM	36	39	18.77	18.80	18.75	18.90	18.71	18.84	
15	64QAM	75	0	18.73	18.77	18.74	18.88	18.76	18.69	19.5
Channel				39740	39700	40160	40620	41080	41540	
Frequency (MHz)				2502.5	2501	2547	2593	2639	2685	
10	QPSK	1	0	18.45	18.49	18.13	18.29	18.11	18.18	19.5
10	QPSK	1	25	18.36	18.38	18.36	18.50	18.39	18.42	
10	QPSK	1	49	18.44	18.46	18.21	18.28	18.19	18.26	
10	QPSK	25	0	18.57	18.60	18.48	18.57	18.48	18.49	
10	QPSK	25	12	18.57	18.58	18.63	18.73	18.55	18.65	
10	QPSK	25	25	18.54	18.55	18.53	18.64	18.50	18.52	19.5
10	QPSK	50	0	18.48	18.51	18.54	18.65	18.47	18.56	
10	16QAM	1	0	18.82	18.85	18.54	18.61	18.55	18.58	
10	16QAM	1	25	18.74	18.75	18.80	18.89	18.78	18.76	
10	16QAM	1	49	18.71	18.76	18.57	18.66	18.53	18.56	
10	16QAM	25	0	18.61	18.65	18.55	18.60	18.51	18.53	19.5
10	16QAM	25	12	18.64	18.67	18.75	18.78	18.63	18.73	
10	16QAM	25	25	18.60	18.60	18.62	18.68	18.56	18.59	
10	16QAM	50	0	18.57	18.59	18.64	18.70	18.51	18.62	
10	64QAM	1	0	18.74	18.74	18.56	18.50	18.42	18.44	
10	64QAM	1	25	18.79	18.77	18.91	18.88	18.82	18.73	19.5
10	64QAM	1	49	18.70	18.71	18.64	18.56	18.51	18.46	
10	64QAM	25	0	18.71	18.70	18.80	18.70	18.56	18.57	
10	64QAM	25	12	18.71	18.73	18.77	18.83	18.64	18.76	
10	64QAM	25	25	18.64	18.69	18.65	18.71	18.61	18.65	
10	64QAM	50	0	18.54	18.61	18.63	18.71	18.51	18.61	19.5
Channel				39715	39675	40148	40620	41093	41565	
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	18.54	18.45	18.12	18.38	18.01	18.27	19.5
5	QPSK	1	12	18.31	18.20	18.20	18.55	18.32	18.37	
5	QPSK	1	24	18.51	18.45	18.25	18.29	18.27	18.33	
5	QPSK	12	0	18.61	18.66	18.45	18.66	18.48	18.45	
5	QPSK	12	7	18.61	18.60	18.56	18.67	18.48	18.56	
5	QPSK	12	13	18.63	18.50	18.54	18.64	18.40	18.50	19.5
5	QPSK	25	0	18.40	18.40	18.52	18.75	18.52	18.65	
5	16QAM	1	0	18.89	18.84	18.50	18.67	18.55	18.57	
5	16QAM	1	12	18.84	18.74	18.71	18.92	18.74	18.72	
5	16QAM	1	24	18.78	18.79	18.56	18.76	18.54	18.54	
5	16QAM	12	0	18.68	18.74	18.56	18.69	18.52	18.43	19.5
5	16QAM	12	7	18.58	18.62	18.67	18.73	18.55	18.69	
5	16QAM	12	13	18.57	18.50	18.62	18.76	18.50	18.61	
5	16QAM	25	0	18.65	18.65	18.74	18.79	18.43	18.68	
5	64QAM	1	0	18.81	18.84	18.65	18.44	18.51	18.44	
5	64QAM	1	12	18.80	18.75	18.93	18.80	18.64	18.78	19.5
5	64QAM	1	24	18.67	18.66	18.63	18.55	18.61	18.36	
5	64QAM	12	0	18.81	18.77	18.58	18.64	18.54	18.49	
5	64QAM	12	7	18.79	18.76	18.67	18.87	18.58	18.81	
5	64QAM	12	13	18.64	18.60	18.63	18.63	18.64	18.74	
5	64QAM	25	0	18.53	18.59	18.64	18.81	18.41	18.60	

Band 38_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				37650	38000	38150	
Frequency (MHz)				2568	2595	2610	
20	QPSK	1	0	18.15	18.14	18.11	19.5
20	QPSK	1	49	18.19	18.18	18.12	
20	QPSK	1	99	18.19	18.14	18.08	
20	QPSK	50	0	18.03	18.02	17.97	
20	QPSK	50	24	18.24	18.21	18.08	
20	QPSK	50	50	18.15	18.12	18.07	19.5
20	QPSK	100	0	18.14	18.11	18.00	
20	16QAM	1	0	18.35	18.34	18.25	
20	16QAM	1	49	18.29	18.22	18.22	
20	16QAM	1	99	18.31	18.27	18.23	
20	16QAM	50	0	18.05	18.07	18.02	19.5
20	16QAM	50	24	18.28	18.27	18.13	
20	16QAM	50	50	18.20	18.18	18.12	
20	16QAM	100	0	18.18	18.14	18.02	
20	64QAM	1	0	18.03	18.10	18.03	
20	64QAM	1	49	18.08	18.03	18.05	19.5
20	64QAM	1	99	18.14	18.07	18.05	
20	64QAM	50	0	18.10	18.07	18.03	
20	64QAM	50	24	18.32	18.28	18.14	
20	64QAM	50	50	18.21	18.18	18.13	
20	64QAM	100	0	18.19	18.15	18.03	
Channel				37625	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	18.15	18.13	18.08	19.5
15	QPSK	1	37	18.15	18.10	17.88	
15	QPSK	1	74	18.15	18.13	18.03	
15	QPSK	36	0	18.10	18.07	18.01	
15	QPSK	36	20	18.27	18.21	18.11	
15	QPSK	36	39	18.17	18.15	18.09	19.5
15	QPSK	75	0	18.10	18.16	18.01	
15	16QAM	1	0	18.30	18.29	18.21	
15	16QAM	1	37	18.23	18.20	18.19	
15	16QAM	1	74	18.34	18.26	18.20	
15	16QAM	36	0	18.11	18.06	17.96	19.5
15	16QAM	36	20	18.24	18.20	18.04	
15	16QAM	36	39	18.20	18.12	18.09	
15	16QAM	75	0	18.24	18.19	18.04	
15	64QAM	1	0	17.99	18.01	17.95	
15	64QAM	1	37	18.08	18.01	18.04	19.5
15	64QAM	1	74	18.11	17.97	18.00	
15	64QAM	36	0	18.16	18.10	18.05	
15	64QAM	36	20	18.32	18.28	18.15	
15	64QAM	36	39	18.24	18.19	18.15	
15	64QAM	75	0	18.23	18.19	18.08	
Channel				37600	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	18.15	18.11	18.08	19.5
10	QPSK	1	25	18.10	18.15	17.91	
10	QPSK	1	49	18.24	18.22	18.04	
10	QPSK	25	0	18.08	17.97	17.95	
10	QPSK	25	12	18.29	18.11	18.19	
10	QPSK	25	25	18.27	18.23	18.08	19.5
10	QPSK	50	0	18.24	18.18	18.10	
10	16QAM	1	0	18.21	18.34	18.23	
10	16QAM	1	25	18.25	18.24	18.12	
10	16QAM	1	49	18.32	18.31	18.27	
10	16QAM	25	0	18.04	18.01	17.99	19.5
10	16QAM	25	12	18.26	18.20	18.08	
10	16QAM	25	25	18.10	18.09	18.03	
10	16QAM	50	0	18.34	18.11	17.96	
10	64QAM	1	0	18.09	18.06	17.99	
10	64QAM	1	25	18.02	17.92	18.11	19.5
10	64QAM	1	49	18.20	17.91	17.98	
10	64QAM	25	0	18.07	18.03	18.00	
10	64QAM	25	12	18.27	18.27	18.08	
10	64QAM	25	25	18.26	18.12	18.12	
10	64QAM	50	0	18.21	18.20	18.09	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	18.25	18.03	18.07	19.5
5	QPSK	1	12	18.19	18.04	17.92	
5	QPSK	1	24	18.09	18.16	17.95	
5	QPSK	12	0	18.10	18.06	17.97	
5	QPSK	12	7	18.26	18.13	18.06	
5	QPSK	12	13	18.16	18.18	18.13	19.5
5	QPSK	25	0	18.20	18.06	18.08	
5	16QAM	1	0	18.28	18.21	18.28	
5	16QAM	1	12	18.31	18.28	18.23	
5	16QAM	1	24	18.35	18.24	18.17	
5	16QAM	12	0	18.06	17.96	17.94	19.5
5	16QAM	12	7	18.17	18.17	18.10	
5	16QAM	12	13	18.16	18.06	18.12	
5	16QAM	25	0	18.34	18.14	18.01	
5	64QAM	1	0	18.00	18.02	17.89	
5	64QAM	1	12	18.12	18.08	18.13	19.5
5	64QAM	1	24	18.13	17.96	17.96	
5	64QAM	12	0	18.19	18.14	18.16	
5	64QAM	12	7	18.32	18.23	18.14	
5	64QAM	12	13	18.34	18.20	18.09	
5	64QAM	25	0	18.14	18.23	18.10	



Band 41_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	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				39790	39790	40185	40620	41055	41490	
Frequency (MHz)				2510	2508	2549.5	2593	2634.5	2680	
20	QPSK	1	0	18.69	18.71	18.65	18.46	18.45	18.32	20
20	QPSK	1	49	18.71	18.73	18.70	18.82	18.78	18.70	
20	QPSK	1	99	18.67	18.66	18.70	18.53	18.34	18.63	
20	QPSK	50	0	18.75	18.77	18.68	18.71	18.67	18.59	
20	QPSK	50	24	18.75	18.77	18.80	18.92	18.72	18.75	20
20	QPSK	50	50	18.71	18.72	18.78	18.85	18.65	18.81	
20	QPSK	100	0	18.69	18.69	18.68	18.81	18.63	18.66	
20	16QAM	1	0	18.89	18.93	18.75	18.60	18.63	18.44	
20	16QAM	1	49	18.79	18.79	18.72	18.94	18.92	18.82	20
20	16QAM	1	99	18.74	18.77	18.85	18.66	18.51	18.75	
20	16QAM	50	0	18.78	18.81	18.75	18.74	18.71	18.64	
20	16QAM	50	24	18.78	18.82	18.88	18.97	18.78	18.78	
20	16QAM	50	50	18.73	18.77	18.85	18.89	18.72	18.83	20
20	16QAM	100	0	18.69	18.71	18.74	18.85	18.65	18.71	
20	64QAM	1	0	18.67	18.65	18.73	18.29	18.43	18.13	
20	64QAM	1	49	18.54	18.57	18.64	18.71	18.65	18.57	
20	64QAM	1	99	18.49	18.53	18.87	18.37	18.29	18.51	20
20	64QAM	50	0	18.81	18.83	18.74	18.77	18.72	18.64	
20	64QAM	50	24	18.79	18.83	18.83	18.95	18.78	18.80	
20	64QAM	50	50	18.76	18.76	18.82	18.90	18.69	18.85	
20	64QAM	100	0	18.73	18.73	18.74	18.88	18.69	18.70	
Channel				39785	39725	40173	40620	41068	41515	
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5	Limit-up limit (dBm)
15	QPSK	1	0	18.66	18.72	18.49	18.55	18.50	18.39	20
15	QPSK	1	37	18.61	18.64	18.71	18.78	18.56	18.66	
15	QPSK	1	74	18.61	18.65	18.49	18.63	18.38	18.65	
15	QPSK	36	0	18.74	18.79	18.63	18.74	18.69	18.62	
15	QPSK	36	20	18.75	18.80	18.76	18.93	18.82	18.84	20
15	QPSK	36	39	18.71	18.74	18.72	18.86	18.71	18.81	
15	QPSK	75	0	18.70	18.75	18.72	18.86	18.73	18.69	
15	16QAM	1	0	18.86	18.89	18.54	18.77	18.60	18.62	
15	16QAM	1	37	18.79	18.78	18.65	18.93	18.91	18.85	20
15	16QAM	1	74	18.78	18.84	18.60	18.82	18.70	18.89	
15	16QAM	36	0	18.73	18.77	18.65	18.72	18.69	18.60	
15	16QAM	36	20	18.74	18.77	18.79	18.90	18.79	18.81	
15	16QAM	36	39	18.70	18.73	18.70	18.85	18.72	18.81	20
15	16QAM	75	0	18.74	18.78	18.77	18.88	18.77	18.73	
15	64QAM	1	0	18.63	18.64	18.49	18.43	18.44	18.32	
15	64QAM	1	37	18.58	18.59	18.71	18.73	18.67	18.62	
15	64QAM	1	74	18.55	18.58	18.54	18.58	18.45	18.63	20
15	64QAM	36	0	18.80	18.83	18.67	18.79	18.73	18.68	
15	64QAM	36	20	18.80	18.83	18.85	18.95	18.85	18.85	
15	64QAM	36	39	18.79	18.78	18.74	18.93	18.74	18.84	
15	64QAM	75	0	18.77	18.77	18.77	18.91	18.75	18.72	
Channel				39740	39700	40160	40620	41080	41540	Limit-up limit (dBm)
Frequency (MHz)				2502.5	2501	2547	2593	2639	2685	
10	QPSK	1	0	18.64	18.80	18.44	18.46	18.48	18.34	20
10	QPSK	1	25	18.59	18.61	18.71	18.80	18.59	18.72	
10	QPSK	1	49	18.56	18.69	18.41	18.54	18.47	18.56	
10	QPSK	25	0	18.71	18.69	18.56	18.78	18.75	18.66	
10	QPSK	25	12	18.84	18.75	18.72	18.87	18.69	18.81	20
10	QPSK	25	25	18.62	18.67	18.82	18.84	18.81	18.87	
10	QPSK	50	0	18.78	18.68	18.62	18.95	18.71	18.66	
10	16QAM	1	0	18.76	18.84	18.54	18.77	18.87	18.58	
10	16QAM	1	25	18.80	18.84	18.70	18.95	18.81	18.84	20
10	16QAM	1	49	18.78	18.78	18.57	18.92	18.67	18.84	
10	16QAM	25	0	18.79	18.77	18.63	18.63	18.69	18.53	
10	16QAM	25	12	18.76	18.76	18.71	18.93	18.81	18.78	
10	16QAM	25	25	18.72	18.68	18.76	18.91	18.68	18.74	20
10	16QAM	50	0	18.80	18.81	18.67	18.81	18.82	18.78	
10	64QAM	1	0	18.70	18.55	18.49	18.48	18.42	18.22	
10	64QAM	1	25	18.65	18.55	18.66	18.66	18.75	18.56	
10	64QAM	1	49	18.55	18.48	18.58	18.60	18.51	18.66	20
10	64QAM	25	0	18.82	18.73	18.65	18.81	18.72	18.58	
10	64QAM	25	12	18.85	18.86	18.76	18.85	18.85	18.94	
10	64QAM	25	25	18.82	18.88	18.80	18.87	18.73	18.74	
10	64QAM	50	0	18.72	18.86	18.80	18.90	18.69	18.66	
Channel				39715	39675	40148	40620	41093	41565	Limit-up limit (dBm)
Frequency (MHz)				2502.5	2498.5	2543.8	2593	2640.30	2687.5	
5	QPSK	1	0	18.57	18.67	18.56	18.56	18.48	18.41	20
5	QPSK	1	12	18.63	18.56	18.78	18.89	18.65	18.82	
5	QPSK	1	24	18.67	18.71	18.42	18.54	18.41	18.56	
5	QPSK	12	0	18.67	18.75	18.63	18.78	18.74	18.54	
5	QPSK	12	7	18.67	18.83	18.73	18.85	18.78	18.91	20
5	QPSK	12	13	18.76	18.67	18.66	18.67	18.79	18.79	
5	QPSK	25	0	18.69	18.77	18.62	18.95	18.83	18.73	
5	16QAM	1	0	18.82	18.80	18.56	18.80	18.85	18.68	
5	16QAM	1	12	18.79	18.86	18.63	18.95	18.92	18.79	20
5	16QAM	1	24	18.69	18.94	18.56	18.81	18.63	18.86	
5	16QAM	12	0	18.66	18.73	18.66	18.74	18.72	18.65	
5	16QAM	12	7	18.83	18.79	18.82	18.93	18.75	18.72	
5	16QAM	12	13	18.64	18.75	18.65	18.80	18.70	18.72	20
5	16QAM	25	0	18.64	18.76	18.71	18.86	18.81	18.82	
5	64QAM	1	0	18.56	18.62	18.57	18.47	18.36	18.27	
5	64QAM	1	12	18.58	18.63	18.64	18.81	18.71	18.62	
5	64QAM	1	24	18.53	18.59	18.52	18.68	18.50	18.53	20
5	64QAM	12	0	18.76	18.88	18.73	18.88	18.65	18.65	
5	64QAM	12	7	18.82	18.76	18.93	18.89	18.85	18.80	
5	64QAM	12	13	18.88	18.79	18.67	18.90	18.77	18.87	
5	64QAM	25	0	18.86	18.73	18.75	18.84	18.77	18.70	

Band 41_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	for IC Power Low Ch. / Freq.	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				39790	39790	40185	40620	41055	41490	
Frequency (MHz)				2510	2508	2549.5	2593	2634.5	2670	
20	QPSK	1	0	18.60	18.61	18.50	18.38	18.38	18.21	20
20	QPSK	1	49	18.56	18.62	18.57	18.73	18.63	18.61	
20	QPSK	1	99	18.55	18.61	18.60	18.43	18.21	18.53	
20	QPSK	50	0	18.77	18.79	18.68	18.71	18.68	18.60	
20	QPSK	50	24	18.76	18.77	18.78	18.53	18.74	18.75	
20	QPSK	50	50	18.73	18.74	18.76	18.45	18.68	18.62	20
20	QPSK	100	0	18.69	18.70	18.68	18.81	18.64	18.66	
20	16QAM	1	0	19.03	19.06	18.89	18.70	18.93	18.57	
20	16QAM	1	49	18.94	19.00	18.95	19.10	19.07	19.01	
20	16QAM	1	99	18.93	18.90	18.98	18.75	18.65	18.91	
20	16QAM	50	0	18.90	18.94	18.75	18.79	18.72	18.64	20
20	16QAM	50	24	18.82	18.82	18.88	18.96	18.78	18.79	
20	16QAM	50	50	18.78	18.78	18.87	18.88	18.73	18.86	
20	16QAM	100	0	18.73	18.74	18.75	18.84	18.66	18.72	
20	64QAM	1	0	18.91	18.92	18.93	18.53	18.70	18.40	20
20	64QAM	1	49	18.90	18.95	18.85	18.98	18.88	18.93	
20	64QAM	1	99	18.77	18.81	19.08	18.64	18.49	18.79	
20	64QAM	50	0	18.81	18.85	18.75	18.77	18.71	18.64	
20	64QAM	50	24	18.82	18.84	18.87	18.97	18.76	18.80	
20	64QAM	50	50	18.78	18.78	18.84	18.90	18.69	18.86	20
20	64QAM	100	0	18.73	18.78	18.75	18.86	18.70	18.70	
Channel				39785	39725	40173	40620	41068	41515	
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	18.63	18.67	18.44	18.53	18.45	18.35	20
15	QPSK	1	37	18.58	18.61	18.65	18.70	18.59	18.61	
15	QPSK	1	74	18.59	18.61	18.43	18.64	18.23	18.61	
15	QPSK	36	0	18.75	18.79	18.63	18.73	18.68	18.61	
15	QPSK	36	20	18.75	18.76	18.77	18.92	18.80	18.80	
15	QPSK	36	39	18.73	18.73	18.67	18.86	18.69	18.79	20
15	QPSK	75	0	18.70	18.75	18.72	18.84	18.69	18.67	
15	16QAM	1	0	19.00	19.00	18.75	18.84	18.91	18.72	
15	16QAM	1	37	18.94	18.96	18.90	19.08	19.09	18.98	
15	16QAM	1	74	18.92	18.96	18.73	18.97	18.79	19.00	
15	16QAM	36	0	18.77	18.78	18.67	18.73	18.69	18.61	20
15	16QAM	36	20	18.74	18.77	18.82	18.90	18.78	18.80	
15	16QAM	36	39	18.72	18.74	18.74	18.86	18.71	18.80	
15	16QAM	75	0	18.73	18.77	18.78	18.88	18.76	18.72	
15	64QAM	1	0	18.88	18.89	18.70	18.69	18.74	18.54	20
15	64QAM	1	37	18.88	18.90	18.97	18.95	18.87	18.83	
15	64QAM	1	74	18.78	18.83	18.81	18.80	18.68	18.64	
15	64QAM	36	0	18.79	18.82	18.66	18.77	18.70	18.65	
15	64QAM	36	20	18.81	18.84	18.83	18.96	18.84	18.84	
15	64QAM	36	39	18.77	18.80	18.75	18.90	18.71	18.84	20
15	64QAM	75	0	18.73	18.77	18.74	18.88	18.76	18.69	
Channel				39740	39700	40160	40620	41080	41540	
Frequency (MHz)				2502.5	2501	2547	2593	2639	2685	
10	QPSK	1	0	18.45	18.49	18.13	18.29	18.11	18.18	20
10	QPSK	1	25	18.36	18.38	18.36	18.50	18.39	18.42	
10	QPSK	1	49	18.44	18.46	18.21	18.28	18.19	18.26	
10	QPSK	25	0	18.57	18.60	18.48	18.57	18.48	18.49	
10	QPSK	25	12	18.57	18.58	18.53	18.73	18.55	18.65	
10	QPSK	25	25	18.54	18.55	18.53	18.64	18.50	18.52	20
10	QPSK	50	0	18.48	18.51	18.54	18.65	18.47	18.56	
10	16QAM	1	0	18.82	18.85	18.54	18.61	18.55	18.58	
10	16QAM	1	25	18.74	18.75	18.80	18.89	18.78	18.76	
10	16QAM	1	49	18.71	18.76	18.57	18.66	18.53	18.56	
10	16QAM	25	0	18.61	18.65	18.55	18.60	18.51	18.53	20
10	16QAM	25	12	18.64	18.67	18.75	18.78	18.63	18.73	
10	16QAM	25	25	18.60	18.60	18.62	18.68	18.56	18.59	
10	16QAM	50	0	18.57	18.59	18.64	18.70	18.51	18.62	
10	64QAM	1	0	18.74	18.74	18.56	18.50	18.42	18.44	
10	64QAM	1	25	18.79	18.77	18.91	18.88	18.82	18.73	20
10	64QAM	1	49	18.70	18.71	18.64	18.56	18.51	18.46	
10	64QAM	25	0	18.71	18.70	18.80	18.70	18.56	18.57	
10	64QAM	25	12	18.71	18.73	18.77	18.83	18.64	18.76	
10	64QAM	25	25	18.64	18.69	18.65	18.71	18.61	18.65	
10	64QAM	50	0	18.54	18.61	18.63	18.71	18.51	18.61	20
Channel				39715	39675	40148	40620	41093	41565	
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	18.54	18.45	18.12	18.38	18.01	18.27	20
5	QPSK	1	12	18.31	18.20	18.20	18.55	18.32	18.37	
5	QPSK	1	24	18.51	18.45	18.25	18.29	18.27	18.33	
5	QPSK	12	0	18.61	18.66	18.45	18.66	18.48	18.45	
5	QPSK	12	7	18.61	18.60	18.56	18.67	18.48	18.56	
5	QPSK	12	13	18.63	18.50	18.54	18.64	18.40	18.50	20
5	QPSK	25	0	18.40	18.40	18.52	18.75	18.52	18.65	
5	16QAM	1	0	18.89	18.84	18.50	18.67	18.55	18.57	
5	16QAM	1	12	18.84	18.74	18.71	18.92	18.74	18.72	
5	16QAM	1	24	18.78	18.79	18.56	18.76	18.54	18.54	
5	16QAM	12	0	18.68	18.74	18.56	18.69	18.52	18.43	20
5	16QAM	12	7	18.58	18.62	18.67	18.73	18.55	18.69	
5	16QAM	12	13	18.57	18.50	18.62	18.76	18.50	18.61	
5	16QAM	25	0	18.65	18.65	18.74	18.79	18.43	18.68	
5	64QAM	1	0	18.81	18.84	18.65	18.44	18.51	18.44	
5	64QAM	1	12	18.80	18.75	18.83	18.80	18.64	18.78	20
5	64QAM	1	24	18.67	18.66	18.63	18.55	18.61	18.36	
5	64QAM	12	0	18.81	18.77	18.58	18.64	18.54	18.49	
5	64QAM	12	7	18.79	18.76	18.67	18.87	18.58	18.81	
5	64QAM	12	13	18.64	18.60	18.63	18.63	18.64	18.74	
5	64QAM	25	0	18.53	18.59	18.64	18.81	18.41	18.60	



Band 38_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				37650	38000	38150	
Frequency (MHz)				2568	2595	2610	
20	QPSK	1	0	19.22	19.20	19.15	20.5
20	QPSK	1	49	19.28	19.23	19.16	
20	QPSK	1	99	19.27	19.20	19.14	
20	QPSK	50	0	19.13	19.08	19.02	
20	QPSK	50	24	19.32	19.25	19.14	
20	QPSK	50	50	19.22	19.20	19.12	20.5
20	QPSK	100	0	19.20	19.17	19.03	
20	16QAM	1	0	19.38	19.36	19.28	
20	16QAM	1	49	19.40	19.35	19.30	
20	16QAM	1	99	19.30	19.36	19.32	
20	16QAM	50	0	19.16	19.13	19.05	20.5
20	16QAM	50	24	19.34	19.32	19.18	
20	16QAM	50	50	19.27	19.20	19.15	
20	16QAM	100	0	19.23	19.20	19.06	
20	64QAM	1	0	19.11	19.04	19.00	
20	64QAM	1	49	19.15	19.08	19.03	20.5
20	64QAM	1	99	19.21	19.11	19.08	
20	64QAM	50	0	19.14	19.11	19.04	
20	64QAM	50	24	19.34	19.29	19.16	
20	64QAM	50	50	19.25	19.20	19.15	
20	64QAM	100	0	19.21	19.18	19.04	
Channel				37625	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.19	19.19	19.08	20.5
15	QPSK	1	37	19.20	19.17	19.10	
15	QPSK	1	74	19.20	19.20	19.11	
15	QPSK	36	0	19.17	19.14	19.06	
15	QPSK	36	20	19.34	19.28	19.14	
15	QPSK	36	39	19.26	19.21	19.16	20.5
15	QPSK	75	0	19.27	19.20	19.07	
15	16QAM	1	0	19.36	19.34	19.29	
15	16QAM	1	37	19.27	19.30	19.23	
15	16QAM	1	74	19.30	19.35	19.29	
15	16QAM	36	0	19.12	19.10	19.02	20.5
15	16QAM	36	20	19.31	19.26	19.12	
15	16QAM	36	39	19.25	19.20	19.13	
15	16QAM	75	0	19.29	19.25	19.09	
15	64QAM	1	0	19.02	19.02	18.96	
15	64QAM	1	37	19.12	19.07	19.05	20.5
15	64QAM	1	74	19.17	19.10	19.05	
15	64QAM	36	0	19.18	19.10	19.09	
15	64QAM	36	20	19.35	19.31	19.17	
15	64QAM	36	39	19.28	19.24	19.16	
15	64QAM	75	0	19.27	19.23	19.09	
Channel				37600	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	18.57	18.83	18.76	20.5
10	QPSK	1	25	18.91	18.85	18.78	
10	QPSK	1	49	18.75	18.97	18.89	
10	QPSK	25	0	18.93	18.90	18.82	
10	QPSK	25	12	19.12	19.06	18.92	
10	QPSK	25	25	19.03	19.01	18.92	20.5
10	QPSK	50	0	19.05	19.00	18.85	
10	16QAM	1	0	19.01	19.28	19.19	
10	16QAM	1	25	19.30	19.25	19.13	
10	16QAM	1	49	18.99	19.27	19.19	
10	16QAM	25	0	18.95	18.92	18.83	20.5
10	16QAM	25	12	19.15	19.09	18.98	
10	16QAM	25	25	19.06	19.02	18.94	
10	16QAM	50	0	19.08	19.05	18.88	
10	64QAM	1	0	18.83	19.16	19.04	
10	64QAM	1	25	19.33	19.21	19.18	20.5
10	64QAM	1	49	18.96	19.20	19.10	
10	64QAM	25	0	19.03	18.98	18.85	
10	64QAM	25	12	19.19	19.22	19.05	
10	64QAM	25	25	19.12	19.11	19.02	
10	64QAM	50	0	19.03	19.04	18.90	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	18.85	18.86	18.73	20.5
5	QPSK	1	12	18.92	18.93	18.86	
5	QPSK	1	24	18.93	18.84	18.76	
5	QPSK	12	0	19.03	18.98	18.92	
5	QPSK	12	7	19.10	19.10	19.05	
5	QPSK	12	13	19.08	19.07	19.01	20.5
5	QPSK	25	0	19.07	19.02	18.98	
5	16QAM	1	0	19.12	19.10	19.01	
5	16QAM	1	12	19.16	19.19	19.14	
5	16QAM	1	24	19.20	19.22	19.15	
5	16QAM	12	0	19.09	18.99	18.96	20.5
5	16QAM	12	7	19.15	19.13	19.07	
5	16QAM	12	13	19.13	19.10	19.02	
5	16QAM	25	0	19.15	19.10	19.01	
5	64QAM	1	0	19.02	19.02	18.94	
5	64QAM	1	12	19.14	19.15	19.07	20.5
5	64QAM	1	24	19.12	19.15	19.09	
5	64QAM	12	0	19.12	19.09	18.99	
5	64QAM	12	7	19.19	19.20	19.09	
5	64QAM	12	13	19.13	19.14	19.07	
5	64QAM	25	0	19.12	19.14	19.06	



Band 41_Ant 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)				2500	2543.5	2587	2630.5	2674	
20	QPSK	1	0	19.85	19.72	19.43	19.48	19.38	20.5
20	QPSK	1	49	19.88	19.88	19.86	19.78	19.80	
20	QPSK	1	99	19.78	19.83	19.58	19.38	19.70	
20	QPSK	50	0	19.90	19.78	19.75	19.83	19.87	
20	QPSK	50	24	19.90	19.87	19.95	19.78	19.81	
20	QPSK	50	50	19.87	19.87	19.80	19.72	19.89	20.5
20	QPSK	100	0	19.82	19.79	19.86	19.68	19.74	
20	16QAM	1	0	20.04	20.00	19.59	19.64	19.43	
20	16QAM	1	49	19.91	19.89	19.99	19.86	19.88	
20	16QAM	1	99	19.83	19.95	19.70	19.47	19.85	
20	16QAM	50	0	19.93	19.85	19.75	19.76	19.68	20.5
20	16QAM	50	24	19.95	19.92	19.98	19.83	19.83	
20	16QAM	50	50	19.89	19.90	19.92	19.75	19.91	
20	16QAM	100	0	19.86	19.81	19.88	19.70	19.75	
20	64QAM	1	0	19.80	19.73	19.29	19.36	19.21	
20	64QAM	1	49	19.70	19.62	19.74	19.66	19.68	20.5
20	64QAM	1	99	19.73	19.73	19.48	19.27	19.62	
20	64QAM	50	0	19.84	19.80	19.78	19.77	19.68	
20	64QAM	50	24	19.92	19.92	19.96	19.84	19.85	
20	64QAM	50	50	19.81	19.89	19.90	19.77	19.93	
20	64QAM	100	0	19.87	19.79	19.87	19.75	19.76	Tune-up limit (dBm)
Channel				39725	40173	40620	41068	41519	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	19.87	19.52	19.62	19.57	19.46	20.5
15	QPSK	1	37	19.82	19.74	19.80	19.70	19.75	
15	QPSK	1	74	19.79	19.53	19.70	19.53	19.74	
15	QPSK	36	0	19.93	19.74	19.79	19.75	19.68	
15	QPSK	36	20	19.91	19.88	19.94	19.86	19.89	
15	QPSK	36	39	19.90	19.80	19.91	19.77	19.88	20.5
15	QPSK	75	0	19.87	19.82	19.92	19.79	19.75	
15	16QAM	1	0	20.03	19.78	19.75	19.77	19.62	
15	16QAM	1	37	19.93	19.90	19.94	19.90	19.91	
15	16QAM	1	74	19.93	19.78	19.89	19.70	19.93	
15	16QAM	36	0	19.92	19.71	19.76	19.73	19.67	20.5
15	16QAM	36	20	19.90	19.87	19.94	19.84	19.88	
15	16QAM	36	39	19.87	19.80	19.91	19.78	19.88	
15	16QAM	75	0	19.92	19.86	19.93	19.85	19.78	
15	64QAM	1	0	19.76	19.52	19.44	19.54	19.39	
15	64QAM	1	37	19.71	19.69	19.73	19.70	19.71	20.5
15	64QAM	1	74	19.73	19.52	19.61	19.49	19.69	
15	64QAM	36	0	19.94	19.75	19.80	19.78	19.74	
15	64QAM	36	20	19.94	19.89	19.98	19.91	19.93	
15	64QAM	36	39	19.91	19.79	19.92	19.80	19.91	
15	64QAM	75	0	19.91	19.84	19.91	19.84	19.78	Tune-up limit (dBm)
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	19.56	19.38	19.31	19.22	19.27	20.5
10	QPSK	1	25	19.62	19.54	19.57	19.48	19.52	
10	QPSK	1	49	19.58	19.34	19.38	19.33	19.35	
10	QPSK	25	0	19.73	19.60	19.63	19.52	19.58	
10	QPSK	25	12	19.79	19.73	19.79	19.63	19.73	
10	QPSK	25	25	19.74	19.64	19.70	19.60	19.63	20.5
10	QPSK	50	0	19.70	19.67	19.69	19.55	19.67	
10	16QAM	1	0	19.96	19.70	19.65	19.56	19.63	
10	16QAM	1	25	19.90	19.95	19.93	19.84	19.82	
10	16QAM	1	49	19.90	19.96	19.98	19.81	19.81	
10	16QAM	25	0	19.81	19.63	19.65	19.55	19.61	20.5
10	16QAM	25	12	19.83	19.81	19.82	19.67	19.78	
10	16QAM	25	25	19.76	19.69	19.72	19.61	19.64	
10	16QAM	50	0	19.75	19.72	19.72	19.58	19.67	
10	64QAM	1	0	19.93	19.53	19.53	19.50	19.52	
10	64QAM	1	25	19.83	19.97	19.90	19.82	19.84	20.5
10	64QAM	1	49	19.83	19.56	19.63	19.55	19.55	
10	64QAM	25	0	19.83	19.67	19.73	19.64	19.66	
10	64QAM	25	12	19.86	19.84	19.86	19.73	19.84	
10	64QAM	25	25	19.81	19.72	19.78	19.69	19.71	
10	64QAM	50	0	19.72	19.70	19.76	19.57	19.68	Tune-up limit (dBm)
Channel				39675	40146	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5	
5	QPSK	1	0	19.86	19.54	19.52	19.45	19.57	20.5
5	QPSK	1	12	19.59	19.54	19.63	19.54	19.61	
5	QPSK	1	24	19.56	19.57	19.57	19.52	19.52	
5	QPSK	12	0	19.76	19.69	19.70	19.64	19.71	
5	QPSK	12	7	19.78	19.77	19.78	19.64	19.74	
5	QPSK	12	13	19.76	19.75	19.79	19.67	19.68	20.5
5	QPSK	25	0	19.75	19.71	19.77	19.58	19.70	
5	16QAM	1	0	19.94	19.73	19.84	19.67	19.82	
5	16QAM	1	12	19.91	19.78	19.89	19.71	19.82	
5	16QAM	1	24	19.94	19.82	19.89	19.73	19.80	
5	16QAM	12	0	19.81	19.74	19.75	19.64	19.71	20.5
5	16QAM	12	7	19.87	19.80	19.82	19.65	19.73	
5	16QAM	12	13	19.81	19.76	19.79	19.73	19.71	
5	16QAM	25	0	19.81	19.78	19.81	19.67	19.75	
5	64QAM	1	0	19.81	19.72	19.75	19.66	19.75	
5	64QAM	1	12	19.82	19.82	19.83	19.74	19.75	20.5
5	64QAM	1	24	19.83	19.78	19.82	19.75	19.74	
5	64QAM	12	0	19.86	19.74	19.77	19.68	19.80	
5	64QAM	12	7	19.83	19.80	19.87	19.74	19.80	
5	64QAM	12	13	19.81	19.79	19.84	19.74	19.77	
5	64QAM	25	0	19.83	19.78	19.84	19.68	19.77	



Band 41_Ant 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)				2500	2543.5	2587	2630.5	2674		
20	QPSK	1	0	19.78	19.73	19.41	19.44	19.22	20.5	
20	QPSK	1	49	19.73	19.71	19.76	19.66	19.68		
20	QPSK	1	99	19.69	19.74	19.49	19.26	19.63		
20	QPSK	50	0	19.90	19.79	19.77	19.73	19.67		
20	QPSK	50	24	19.81	19.89	19.95	19.80	19.82		
20	QPSK	50	50	19.89	19.87	19.89	19.73	19.90	20.5	
20	QPSK	100	0	19.85	19.77	19.85	19.68	19.74		
20	16QAM	1	0	20.17	20.10	19.75	19.75	19.66		
20	16QAM	1	49	20.07	20.08	20.11	20.05	20.02		
20	16QAM	1	99	20.09	20.13	19.85	19.82	19.96		
20	16QAM	50	0	19.95	19.82	19.79	19.74	19.71	20.5	
20	16QAM	50	24	19.95	19.94	20.00	19.79	19.88		
20	16QAM	50	50	19.91	19.92	19.92	19.75	19.93		
20	16QAM	100	0	19.88	19.81	19.90	19.73	19.76		
20	64QAM	1	0	20.07	19.98	19.92	19.64	19.43		
20	64QAM	1	49	19.92	19.86	20.00	19.90	19.88	20.5	
20	64QAM	1	99	19.97	19.98	19.71	19.52	19.90		
20	64QAM	50	0	19.86	19.81	19.77	19.80	19.70		
20	64QAM	50	24	19.95	19.91	19.98	19.83	19.88		
20	64QAM	50	50	19.90	19.89	19.91	19.79	19.95		
20	64QAM	100	0	19.87	19.83	19.86	19.75	19.78	20.5	
Channel				39725	40173	40620	41068	41519		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	19.82	19.49	19.57	19.55	19.44	20.5	
15	QPSK	1	37	19.77	19.72	19.62	19.68	19.73		
15	QPSK	1	74	19.74	19.49	19.63	19.44	19.72		
15	QPSK	36	0	19.92	19.75	19.77	19.74	19.70		
15	QPSK	36	20	19.84	19.88	19.97	19.83	19.88		
15	QPSK	36	39	19.87	19.78	19.91	19.76	19.87	20.5	
15	QPSK	75	0	19.87	19.81	19.88	19.78	19.77		
15	16QAM	1	0	20.16	19.89	19.90	19.90	19.78		
15	16QAM	1	37	20.08	20.12	20.11	20.05	20.11		
15	16QAM	1	74	20.10	19.90	19.97	19.79	20.08		
15	16QAM	36	0	19.93	19.75	19.75	19.72	19.68	20.5	
15	16QAM	36	20	19.90	19.89	19.94	19.87	19.88		
15	16QAM	36	39	19.89	19.81	19.91	19.74	19.87		
15	16QAM	75	0	19.90	19.83	19.90	19.80	19.78		
15	64QAM	1	0	20.02	19.71	19.70	19.80	19.61		
15	64QAM	1	37	19.98	20.00	19.97	19.95	19.94	20.5	
15	64QAM	1	74	19.98	19.75	19.82	19.71	19.95		
15	64QAM	36	0	19.93	19.75	19.78	19.79	19.74		
15	64QAM	36	20	19.96	19.93	19.95	19.90	19.96		
15	64QAM	36	39	19.92	19.80	19.90	19.81	19.92		
15	64QAM	75	0	19.89	19.81	19.87	19.85	19.80	20.5	
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	19.65	19.27	19.29	19.23	19.24	20.5	
10	QPSK	1	25	19.51	19.52	19.53	19.46	19.53		
10	QPSK	1	49	19.51	19.33	19.37	19.32	19.27		
10	QPSK	25	0	19.74	19.56	19.62	19.52	19.54		
10	QPSK	25	12	19.74	19.74	19.78	19.61	19.72		
10	QPSK	25	25	19.71	19.62	19.66	19.58	19.61	20.5	
10	QPSK	50	0	19.69	19.64	19.68	19.54	19.66		
10	16QAM	1	0	19.97	19.64	19.67	19.60	19.58		
10	16QAM	1	25	19.89	19.89	19.94	19.83	19.88		
10	16QAM	1	49	19.91	19.64	19.67	19.59	19.63		
10	16QAM	25	0	19.75	19.62	19.63	19.55	19.59	20.5	
10	16QAM	25	12	19.81	19.81	19.84	19.65	19.76		
10	16QAM	25	25	19.75	19.68	19.70	19.62	19.64		
10	16QAM	50	0	19.72	19.70	19.74	19.57	19.68		
10	64QAM	1	0	19.91	19.55	19.52	19.49	19.48		
10	64QAM	1	25	19.91	19.96	19.88	19.82	19.85	20.5	
10	64QAM	1	49	19.84	19.56	19.63	19.55	19.57		
10	64QAM	25	0	19.82	19.65	19.71	19.63	19.67		
10	64QAM	25	12	19.86	19.81	19.86	19.70	19.84		
10	64QAM	25	25	19.81	19.71	19.76	19.67	19.72		
10	64QAM	50	0	19.72	19.67	19.74	19.58	19.71	20.5	
Channel				39675	40146	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5		
5	QPSK	1	0	19.83	19.65	19.51	19.47	19.51	20.5	
5	QPSK	1	12	19.52	19.52	19.60	19.52	19.60		
5	QPSK	1	24	19.59	19.56	19.55	19.47	19.50		
5	QPSK	12	0	19.75	19.65	19.71	19.62	19.71		
5	QPSK	12	7	19.77	19.73	19.80	19.62	19.74		
5	QPSK	12	13	19.71	19.70	19.76	19.65	19.70	20.5	
5	QPSK	25	0	19.70	19.67	19.71	19.57	19.68		
5	16QAM	1	0	19.93	19.73	19.83	19.66	19.81		
5	16QAM	1	12	19.85	19.79	19.88	19.72	19.82		
5	16QAM	1	24	19.90	19.80	19.87	19.69	19.80		
5	16QAM	12	0	19.79	19.69	19.74	19.63	19.72	20.5	
5	16QAM	12	7	19.82	19.75	19.80	19.66	19.73		
5	16QAM	12	13	19.77	19.73	19.74	19.69	19.73		
5	16QAM	25	0	19.76	19.78	19.79	19.65	19.74		
5	64QAM	1	0	19.82	19.65	19.75	19.63	19.78		
5	64QAM	1	12	19.77	19.77	19.81	19.72	19.77	20.5	
5	64QAM	1	24	19.82	19.71	19.81	19.70	19.72		
5	64QAM	12	0	19.78	19.71	19.76	19.66	19.77		
5	64QAM	12	7	19.81	19.79	19.86	19.71	19.77		
5	64QAM	12	13	19.81	19.74	19.81	19.71	19.75		
5	64QAM	25	0	19.80	19.77	19.83	19.67	19.77	20.5	

Band 38_Ant 0						
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Middle Ch / Freq	Power High Ch / Freq
Channel				37850	38000	38150
Frequency (MHz)				2560	2564	2568
20	QPSK	1	0	16.87	16.85	16.84
20	QPSK	1	49	16.79	16.76	16.72
20	QPSK	1	99	16.75	16.65	16.61
20	QPSK	50	0	16.71	16.71	16.68
20	QPSK	80	24	16.95	16.97	16.72
20	QPSK	50	50	16.74	16.70	16.66
20	QPSK	100	0	16.79	16.74	16.61
20	16QAM	1	0	17.02	17.03	17.04
20	16QAM	1	49	16.95	16.91	16.85
20	16QAM	1	99	16.90	16.94	16.83
20	16QAM	50	0	16.78	16.72	16.70
20	16QAM	50	24	16.94	16.88	16.76
20	16QAM	50	50	16.80	16.76	16.70
20	16QAM	100	0	16.82	16.75	16.64
20	64QAM	1	0	16.62	16.64	16.58
20	64QAM	1	49	16.63	16.52	16.55
20	64QAM	1	99	16.61	16.51	16.49
20	64QAM	50	0	16.78	16.74	16.71
20	64QAM	50	24	16.92	16.90	16.78
20	64QAM	50	50	16.81	16.75	16.71
20	64QAM	100	0	16.81	16.77	16.65
Channel				37925	38000	38175
Frequency (MHz)				2577.5	2585	2612.5
15	QPSK	1	0	16.84	16.84	16.75
15	QPSK	1	37	16.80	16.77	16.70
15	QPSK	1	74	16.77	16.72	16.66
15	QPSK	36	0	16.74	16.73	16.68
15	QPSK	36	20	16.86	16.86	16.72
15	QPSK	36	39	16.80	16.74	16.67
15	QPSK	75	0	16.81	16.79	16.65
15	16QAM	1	0	16.97	17.02	16.97
15	16QAM	1	37	16.88	16.90	16.80
15	16QAM	1	74	16.95	16.85	16.79
15	16QAM	36	0	16.74	16.70	16.63
15	16QAM	36	20	16.86	16.86	16.70
15	16QAM	36	39	16.78	16.74	16.65
15	16QAM	75	0	16.85	16.83	16.66
15	64QAM	1	0	16.56	16.53	16.49
15	64QAM	1	37	16.59	16.54	16.54
15	64QAM	1	74	16.59	16.49	16.44
15	64QAM	36	0	16.80	16.77	16.72
15	64QAM	36	20	16.93	16.90	16.76
15	64QAM	36	39	16.83	16.79	16.72
15	64QAM	75	0	16.86	16.85	16.70
Channel				37925	38000	38200
Frequency (MHz)				2579	2585	2615
10	QPSK	1	0	16.85	16.80	16.84
10	QPSK	1	25	16.78	16.75	16.70
10	QPSK	1	49	16.75	16.61	16.52
10	QPSK	25	0	16.69	16.67	16.58
10	QPSK	25	12	16.89	16.80	16.62
10	QPSK	25	25	16.73	16.60	16.62
10	QPSK	50	0	16.72	16.66	16.59
10	16QAM	1	0	16.93	16.95	16.99
10	16QAM	1	25	16.86	16.85	16.81
10	16QAM	1	49	16.85	16.81	16.73
10	16QAM	25	0	16.66	16.67	16.70
10	16QAM	25	12	16.88	16.84	16.73
10	16QAM	25	25	16.72	16.74	16.66
10	16QAM	50	0	16.77	16.66	16.56
10	64QAM	1	0	16.53	16.64	16.53
10	64QAM	1	25	16.59	16.50	16.45
10	64QAM	1	49	16.53	16.47	16.45
10	64QAM	25	0	16.73	16.64	16.66
10	64QAM	25	12	16.85	16.86	16.74
10	64QAM	25	25	16.78	16.73	16.69
10	64QAM	50	0	16.72	16.74	16.63
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2582	2617.5
5	QPSK	1	0	16.40	16.44	16.31
5	QPSK	1	12	16.53	16.52	16.42
5	QPSK	1	24	16.46	16.44	16.33
5	QPSK	12	0	16.62	16.54	16.45
5	QPSK	12	7	16.66	16.66	16.56
5	QPSK	12	13	16.64	16.59	16.51
5	QPSK	25	0	16.61	16.61	16.51
5	16QAM	1	0	16.57	16.56	16.49
5	16QAM	1	12	16.74	16.71	16.64
5	16QAM	1	24	16.66	16.65	16.56
5	16QAM	12	0	16.61	16.52	16.43
5	16QAM	12	7	16.63	16.60	16.55
5	16QAM	12	13	16.61	16.57	16.47
5	16QAM	25	0	16.64	16.63	16.50
5	64QAM	1	0	16.24	16.19	16.12
5	64QAM	1	12	16.33	16.27	16.20
5	64QAM	1	24	16.37	16.25	16.17
5	64QAM	12	0	16.66	16.59	16.53
5	64QAM	12	7	16.72	16.70	16.64
5	64QAM	12	13	16.67	16.66	16.57
5	64QAM	25	0	16.70	16.70	16.60



Band 41_Ant 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)				2500	2543.5	2587	2630.5	2674	
20	QPSK	1	0	16.94	16.83	16.58	16.56	16.43	17.5
20	QPSK	1	49	16.85	16.83	16.92	16.81	16.87	
20	QPSK	1	99	16.85	16.88	16.83	16.40	16.80	
20	QPSK	50	0	17.03	16.88	16.83	16.80	16.74	
20	QPSK	50	24	17.04	16.97	17.03	16.87	16.98	17.5
20	QPSK	50	50	16.97	16.95	16.98	16.79	16.95	
20	QPSK	100	0	16.89	16.85	16.95	16.75	16.80	
20	16QAM	1	0	16.99	16.92	16.85	16.84	16.54	
20	16QAM	1	49	16.92	16.87	17.02	16.90	16.92	17.5
20	16QAM	1	99	16.91	16.96	16.72	16.50	16.85	
20	16QAM	50	0	17.00	16.87	16.85	16.84	16.79	
20	16QAM	50	24	16.88	16.96	17.06	16.93	16.92	
20	16QAM	50	50	16.96	16.97	16.99	16.84	16.99	17.5
20	16QAM	100	0	16.81	16.86	16.95	16.79	16.86	
20	64QAM	1	0	16.92	16.58	16.34	16.58	16.28	
20	64QAM	1	49	16.72	16.80	16.85	16.80	16.73	17.5
20	64QAM	1	99	16.78	16.99	16.54	16.36	16.74	
20	64QAM	50	0	17.02	16.92	16.87	16.85	16.80	
20	64QAM	50	24	16.99	17.00	17.08	16.91	16.94	
20	64QAM	50	50	16.94	17.03	17.01	16.85	17.02	17.5
20	64QAM	100	0	16.93	16.89	16.97	16.82	16.85	
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	16.95	16.84	16.66	16.74	16.58	17.5
15	QPSK	1	37	16.93	16.88	16.89	16.85	16.79	
15	QPSK	1	74	16.87	16.66	16.80	16.59	16.78	
15	QPSK	36	0	17.05	16.82	16.87	16.81	16.76	
15	QPSK	36	20	17.03	16.95	17.01	16.94	16.96	17.5
15	QPSK	36	39	16.98	16.86	16.99	16.84	16.94	
15	QPSK	72	0	16.96	16.89	16.97	16.88	16.82	
15	16QAM	1	0	16.98	16.74	16.84	16.82	16.74	
15	16QAM	1	37	16.85	16.85	17.00	16.90	17.00	17.5
15	16QAM	1	74	16.95	16.73	16.92	16.71	16.98	
15	16QAM	36	0	16.97	16.72	16.81	16.80	16.73	
15	16QAM	36	20	16.97	16.87	17.00	16.90	16.95	
15	16QAM	36	39	16.94	16.80	16.95	16.82	16.95	17.5
15	16QAM	72	0	16.86	16.89	17.00	16.91	16.86	
15	64QAM	1	0	16.84	16.36	16.54	16.60	16.47	
15	64QAM	1	37	16.75	16.87	16.83	16.76	16.78	
15	64QAM	1	74	16.74	16.72	16.72	16.52	16.80	17.5
15	64QAM	36	0	17.01	16.84	16.88	16.86	16.81	
15	64QAM	36	20	17.02	16.97	17.07	16.97	17.02	
15	64QAM	36	39	16.88	16.90	17.03	16.86	17.02	
15	64QAM	72	0	16.86	16.91	16.99	16.94	16.86	Tune-up limit (dBm)
Channel				39700	40110	40620	41080	41550	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	16.86	16.81	16.81	16.66	16.50	17.5
10	QPSK	1	25	16.90	16.85	16.86	16.80	16.71	
10	QPSK	1	49	16.85	16.84	16.76	16.53	16.71	
10	QPSK	25	0	16.96	16.82	16.87	16.79	16.71	
10	QPSK	25	12	16.98	16.90	16.91	16.88	16.91	17.5
10	QPSK	25	25	16.91	16.80	16.92	16.77	16.90	
10	QPSK	50	0	16.86	16.81	16.96	16.78	16.80	
10	16QAM	1	0	16.89	16.84	16.80	16.78	16.84	
10	16QAM	1	25	16.79	16.76	16.95	16.88	16.92	17.5
10	16QAM	1	49	16.85	16.67	16.86	16.71	16.92	
10	16QAM	25	0	16.94	16.66	16.76	16.72	16.70	
10	16QAM	25	12	16.87	16.82	16.92	16.86	16.91	
10	16QAM	25	25	16.86	16.76	16.89	16.75	16.86	17.5
10	16QAM	50	0	16.96	16.86	16.96	16.90	16.80	
10	64QAM	1	0	16.84	16.35	16.51	16.59	16.43	
10	64QAM	1	25	16.73	16.78	16.73	16.70	16.71	
10	64QAM	1	49	16.70	16.67	16.72	16.43	16.77	17.5
10	64QAM	25	0	16.97	16.84	16.86	16.85	16.78	
10	64QAM	25	12	16.98	16.88	16.99	16.90	16.92	
10	64QAM	25	25	16.89	16.86	16.95	16.79	16.93	
10	64QAM	50	0	16.86	16.82	16.96	16.88	16.77	Tune-up limit (dBm)
Channel				39675	40148	40620	41093	41569	
Frequency (MHz)				2498.5	2545.3	2593	2640.50	2687.5	
5	QPSK	1	0	16.75	16.57	16.65	16.55	16.71	17.5
5	QPSK	1	12	16.66	16.64	16.72	16.64	16.71	
5	QPSK	1	24	16.64	16.58	16.67	16.56	16.65	
5	QPSK	12	0	16.83	16.74	16.75	16.67	16.77	
5	QPSK	12	7	16.85	16.82	16.82	16.70	16.77	17.5
5	QPSK	12	13	16.78	16.78	16.82	16.74	16.76	
5	QPSK	25	0	16.78	16.80	16.81	16.66	16.75	
5	16QAM	1	0	16.89	16.71	16.80	16.71	16.79	
5	16QAM	1	12	16.85	16.86	16.88	16.86	16.83	17.5
5	16QAM	1	24	16.88	16.79	16.85	16.75	16.85	
5	16QAM	12	0	16.80	16.71	16.76	16.67	16.76	
5	16QAM	12	7	16.79	16.78	16.85	16.67	16.80	
5	16QAM	12	13	16.78	16.77	16.82	16.71	16.73	17.5
5	16QAM	25	0	16.83	16.79	16.83	16.71	16.78	
5	64QAM	1	0	16.67	16.39	16.60	16.64	16.60	
5	64QAM	1	12	16.57	16.77	16.67	16.68	16.66	
5	64QAM	1	24	16.59	16.75	16.69	16.66	16.64	17.5
5	64QAM	12	0	16.84	16.78	16.83	16.77	16.83	
5	64QAM	12	7	16.85	16.89	16.90	16.74	16.84	
5	64QAM	12	13	16.81	16.85	16.85	16.79	16.81	
5	64QAM	25	0	16.83	16.88	16.91	16.75	16.84	



Band 41_Ant 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)				2500	2543.5	2587	2630.5	2674		
20	QPSK	1	0	16.83	16.72	16.42	16.44	16.31	17.5	
20	QPSK	1	49	16.77	16.70	16.79	16.66	16.69		
20	QPSK	1	99	16.74	16.76	16.49	16.30	16.84		
20	QPSK	50	0	16.89	16.85	16.80	16.76	16.70		
20	QPSK	50	24	16.98	16.94	17.04	16.84	16.85	17.5	
20	QPSK	50	50	16.94	16.92	16.93	16.76	16.92		
20	QPSK	100	0	16.89	16.79	16.91	16.71	16.77		
20	16QAM	1	0	17.17	17.01	16.77	16.84	16.87		
20	16QAM	1	49	17.07	17.01	17.20	17.02	17.10	17.5	
20	16QAM	1	99	17.10	17.06	16.86	16.81	17.04		
20	16QAM	50	0	17.01	16.85	16.84	16.81	16.73		
20	16QAM	50	24	16.97	16.95	17.06	16.89	16.89		
20	16QAM	50	50	16.98	16.96	16.96	16.82	16.97	17.5	
20	16QAM	100	0	16.88	16.83	16.94	16.77	16.80		
20	64QAM	1	0	17.11	16.85	16.60	16.73	16.49		
20	64QAM	1	49	16.95	17.03	17.10	17.01	16.98		
20	64QAM	1	99	16.99	17.18	16.80	16.57	16.94	17.5	
20	64QAM	50	0	17.01	16.91	16.85	16.83	16.76		
20	64QAM	50	24	16.98	17.01	17.04	16.90	16.92		
20	64QAM	50	50	16.92	17.01	16.98	16.83	16.97		
20	64QAM	100	0	16.91	16.89	16.93	16.79	16.83	Tune-up limit (dBm)	
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	16.87	16.60	16.62	16.61	16.48	17.5	
15	QPSK	1	37	16.86	16.81	16.82	16.75	16.74		
15	QPSK	1	74	16.84	16.58	16.67	16.52	16.72		
15	QPSK	36	0	16.99	16.78	16.85	16.80	16.72		
15	QPSK	36	20	16.97	16.91	17.00	16.87	16.95	17.5	
15	QPSK	36	39	16.92	16.89	16.97	16.81	16.93		
15	QPSK	72	0	16.92	16.87	16.96	16.86	16.80		
15	16QAM	1	0	17.18	16.89	16.92	16.97	16.86		
15	16QAM	1	37	17.12	17.00	17.17	17.07	17.17	17.5	
15	16QAM	1	74	17.08	16.83	17.05	16.81	17.14		
15	16QAM	36	0	16.94	16.71	16.82	16.79	16.76		
15	16QAM	36	20	16.94	16.85	16.97	16.90	16.92		
15	16QAM	36	39	16.95	16.77	16.95	16.80	16.91	17.5	
15	16QAM	72	0	16.92	16.84	16.96	16.88	16.80		
15	64QAM	1	0	17.06	16.84	16.75	16.82	16.66		
15	64QAM	1	37	17.01	17.15	17.07	16.97	16.99		
15	64QAM	1	74	16.95	16.92	16.91	16.73	17.01	17.5	
15	64QAM	36	0	17.03	16.84	16.87	16.84	16.79		
15	64QAM	36	20	16.99	16.95	17.05	16.95	16.96		
15	64QAM	36	39	17.00	16.89	16.98	16.85	16.97		
15	64QAM	72	0	16.94	16.89	16.98	16.90	16.83	Tune-up limit (dBm)	
Channel				39700	40110	40593	41080	41550		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	16.80	16.67	16.37	16.34	16.27	17.5	
10	QPSK	1	25	16.73	16.62	16.77	16.58	16.59		
10	QPSK	1	49	16.69	16.69	16.44	16.25	16.58		
10	QPSK	25	0	16.94	16.90	16.75	16.75	16.70		
10	QPSK	25	12	16.90	16.85	16.95	16.81	16.81	17.5	
10	QPSK	25	25	16.87	16.83	16.87	16.75	16.82		
10	QPSK	50	0	16.84	16.74	16.90	16.61	16.72		
10	16QAM	1	0	17.10	17.00	16.69	16.81	16.58		
10	16QAM	1	25	17.02	17.01	17.17	16.93	17.03	17.5	
10	16QAM	1	49	17.08	17.02	16.83	16.52	17.01		
10	16QAM	25	0	16.99	16.85	16.78	16.73	16.67		
10	16QAM	25	12	16.93	16.89	16.97	16.79	16.79		
10	16QAM	25	25	16.96	16.94	16.96	16.74	16.96	17.5	
10	16QAM	50	0	16.79	16.77	16.90	16.73	16.71		
10	64QAM	1	0	17.07	16.81	16.59	16.64	16.44		
10	64QAM	1	25	16.91	16.93	17.02	16.98	16.93		
10	64QAM	1	49	16.92	17.14	16.79	16.53	16.90	17.5	
10	64QAM	25	0	16.96	16.80	16.80	16.76	16.76		
10	64QAM	25	12	16.94	17.01	16.94	16.85	16.89		
10	64QAM	25	25	16.89	16.94	16.90	16.75	16.88		
10	64QAM	50	0	16.82	16.81	16.91	16.79	16.81	Tune-up limit (dBm)	
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.3	2593	2640.50	2687.5		
5	QPSK	1	0	16.66	16.48	16.59	16.46	16.58	17.5	
5	QPSK	1	12	16.59	16.57	16.64	16.55	16.60		
5	QPSK	1	24	16.61	16.50	16.61	16.50	16.55		
5	QPSK	12	0	16.82	16.70	16.75	16.65	16.77		
5	QPSK	12	7	16.85	16.76	16.85	16.68	16.76	17.5	
5	QPSK	12	13	16.79	16.77	16.77	16.69	16.72		
5	QPSK	25	0	16.78	16.76	16.80	16.65	16.73		
5	16QAM	1	0	16.94	16.89	16.86	16.79	16.84		
5	16QAM	1	12	16.91	16.91	16.89	16.86	16.85	17.5	
5	16QAM	1	24	16.93	16.94	16.90	16.84	16.79		
5	16QAM	12	0	16.92	16.74	16.81	16.73	16.81		
5	16QAM	12	7	16.87	16.85	16.86	16.71	16.80		
5	16QAM	12	13	16.80	16.81	16.82	16.77	16.79	17.5	
5	16QAM	25	0	16.82	16.81	16.86	16.69	16.79		
5	64QAM	1	0	16.87	16.75	16.82	16.71	16.79		
5	64QAM	1	12	16.85	16.87	16.88	16.79	16.82		
5	64QAM	1	24	16.85	16.84	16.87	16.80	16.78	17.5	
5	64QAM	12	0	16.87	16.77	16.81	16.75	16.84		
5	64QAM	12	7	16.86	16.87	16.93	16.76	16.85		
5	64QAM	12	13	16.83	16.86	16.86	16.81	16.81		
5	64QAM	25	0	16.81	16.85	16.90	16.73	16.81	Tune-up limit (dBm)	



Band 38_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				37650	38000	38150	18
Frequency (MHz)				2550	2595	2610	
20	QPSK	1	0	16.87	16.85	16.84	18
20	QPSK	1	49	16.79	16.76	16.72	
20	QPSK	1	99	16.75	16.65	16.61	
20	QPSK	50	0	16.71	16.71	16.68	
20	QPSK	50	24	16.89	16.87	16.72	
20	QPSK	50	50	16.74	16.70	16.66	18
20	QPSK	100	0	16.79	16.74	16.61	
20	16QAM	1	0	17.02	17.03	17.04	
20	16QAM	1	49	16.95	16.91	16.85	
20	16QAM	1	99	16.90	16.84	16.83	
20	16QAM	50	0	16.76	16.72	16.70	18
20	16QAM	50	24	16.94	16.88	16.76	
20	16QAM	50	50	16.80	16.76	16.70	
20	16QAM	100	0	16.82	16.75	16.64	
20	64QAM	1	0	16.62	16.64	16.58	
20	64QAM	1	49	16.63	16.52	16.55	18
20	64QAM	1	99	16.61	16.51	16.49	
20	64QAM	50	0	16.78	16.74	16.71	
20	64QAM	50	24	16.92	16.90	16.78	
20	64QAM	50	50	16.81	16.75	16.71	
20	64QAM	100	0	16.81	16.77	16.65	18
Channel				37625	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	18
15	QPSK	1	0	16.84	16.84	16.75	
15	QPSK	1	37	16.80	16.77	16.70	18
15	QPSK	1	74	16.77	16.72	16.66	
15	QPSK	36	0	16.74	16.73	16.68	
15	QPSK	36	20	16.88	16.86	16.72	
15	QPSK	36	39	16.80	16.74	16.67	
15	QPSK	75	0	16.81	16.78	16.65	18
15	16QAM	1	0	16.97	17.02	16.97	
15	16QAM	1	37	16.88	16.90	16.80	
15	16QAM	1	74	16.95	16.85	16.79	
15	16QAM	36	0	16.74	16.70	16.63	
15	16QAM	36	20	16.86	16.85	16.70	18
15	16QAM	36	39	16.78	16.74	16.65	
15	16QAM	75	0	16.85	16.83	16.68	
15	64QAM	1	0	16.56	16.53	16.49	
15	64QAM	1	37	16.59	16.54	16.54	
15	64QAM	1	74	16.55	16.49	16.44	18
15	64QAM	36	0	16.80	16.77	16.72	
15	64QAM	36	20	16.93	16.90	16.76	
15	64QAM	36	39	16.83	16.79	16.72	
15	64QAM	75	0	16.86	16.85	16.70	
Channel				37600	38000	38200	18
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	16.85	16.80	16.84	18
10	QPSK	1	25	16.78	16.75	16.70	
10	QPSK	1	49	16.75	16.61	16.52	
10	QPSK	25	0	16.68	16.67	16.58	
10	QPSK	25	12	16.89	16.80	16.62	
10	QPSK	25	25	16.73	16.60	16.62	18
10	QPSK	50	0	16.72	16.66	16.59	
10	16QAM	1	0	16.93	16.95	16.99	
10	16QAM	1	25	16.86	16.85	16.81	
10	16QAM	1	49	16.85	16.81	16.73	
10	16QAM	25	0	16.68	16.67	16.70	18
10	16QAM	25	12	16.88	16.84	16.73	
10	16QAM	25	25	16.72	16.74	16.66	
10	16QAM	50	0	16.77	16.66	16.59	
10	64QAM	1	0	16.53	16.64	16.53	
10	64QAM	1	25	16.59	16.50	16.45	18
10	64QAM	1	49	16.53	16.47	16.45	
10	64QAM	25	0	16.73	16.64	16.68	
10	64QAM	25	12	16.85	16.86	16.74	
10	64QAM	25	25	16.78	16.73	16.69	
10	64QAM	50	0	16.72	16.74	16.63	18
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	18
5	QPSK	1	0	16.40	16.44	16.51	
5	QPSK	1	12	16.53	16.52	16.42	18
5	QPSK	1	24	16.46	16.44	16.33	
5	QPSK	12	0	16.62	16.54	16.45	
5	QPSK	12	7	16.66	16.66	16.56	
5	QPSK	12	13	16.64	16.59	16.51	18
5	QPSK	25	0	16.81	16.81	16.51	
5	16QAM	1	0	16.57	16.56	16.49	
5	16QAM	1	12	16.74	16.71	16.64	
5	16QAM	1	24	16.66	16.65	16.56	
5	16QAM	12	0	16.61	16.52	16.43	18
5	16QAM	12	7	16.83	16.80	16.55	
5	16QAM	12	13	16.61	16.57	16.47	
5	16QAM	25	0	16.64	16.63	16.59	
5	64QAM	1	0	16.24	16.19	16.12	
5	64QAM	1	12	16.33	16.27	16.20	18
5	64QAM	1	24	16.37	16.25	16.17	
5	64QAM	12	0	16.66	16.59	16.53	
5	64QAM	12	7	16.72	16.70	16.64	
5	64QAM	12	13	16.67	16.66	16.57	
5	64QAM	25	0	16.70	16.70	16.60	18
Channel				37700	38000	38100	
Frequency (MHz)				2570	2595	2610	

Band 41_Ant 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)				2500	2543.5	2587	2630.5	2674		
20	QPSK	1	0	16.94	16.83	16.58	16.58	16.43	18	
20	QPSK	1	49	16.85	16.83	16.92	16.81	16.87		
20	QPSK	1	99	16.85	16.88	16.83	16.40	16.80		
20	QPSK	50	0	17.03	16.88	16.83	16.80	16.74		
20	QPSK	50	24	17.01	16.97	17.06	16.87	16.88		
20	QPSK	50	50	16.97	16.95	16.96	16.79	16.95	18	
20	QPSK	100	0	16.89	16.85	16.95	16.75	16.80		
20	16QAM	1	0	16.99	16.92	16.85	16.64	16.54		
20	16QAM	1	49	16.92	16.87	17.02	16.90	16.92		
20	16QAM	1	99	16.81	16.96	16.72	16.50	16.85		
20	16QAM	50	0	17.00	16.87	16.85	16.84	16.79	18	
20	16QAM	50	24	16.98	16.96	17.06	16.93	16.92		
20	16QAM	50	50	16.86	16.97	16.99	16.84	16.99		
20	16QAM	100	0	16.91	16.86	16.95	16.79	16.86		
20	64QAM	1	0	16.92	16.58	16.34	16.58	16.28		
20	64QAM	1	49	16.72	16.80	16.85	16.80	16.73	18	
20	64QAM	1	99	16.78	16.99	16.54	16.36	16.74		
20	64QAM	50	0	17.02	16.92	16.87	16.85	16.80		
20	64QAM	50	24	16.99	17.00	17.08	16.91	16.94		
20	64QAM	50	50	16.84	17.03	17.01	16.85	17.02		
20	64QAM	100	0	16.93	16.99	16.97	16.82	16.85	18	
Channel				39725	40173	40620	41058	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	16.95	16.64	16.66	16.74	16.58	18	
15	QPSK	1	37	16.93	16.88	16.89	16.85	16.79		
15	QPSK	1	74	16.87	16.66	16.80	16.59	16.79		
15	QPSK	36	0	17.05	16.82	16.87	16.81	16.76		
15	QPSK	36	20	17.03	16.95	17.01	16.94	16.96		
15	QPSK	36	39	16.98	16.86	16.99	16.84	16.94	18	
15	QPSK	75	0	16.96	16.89	16.97	16.88	16.82		
15	16QAM	1	0	16.98	16.74	16.84	16.82	16.74		
15	16QAM	1	37	16.85	16.85	17.00	16.90	17.00		
15	16QAM	1	74	16.95	16.73	16.92	16.71	16.98		
15	16QAM	36	0	16.97	16.72	16.81	16.80	16.73	18	
15	16QAM	36	20	16.97	16.87	17.00	16.90	16.95		
15	16QAM	36	39	16.94	16.80	16.95	16.82	16.95		
15	16QAM	75	0	16.96	16.89	17.00	16.91	16.86		
15	64QAM	1	0	16.84	16.36	16.54	16.60	16.47		
15	64QAM	1	37	16.75	16.87	16.83	16.76	16.78	18	
15	64QAM	1	74	16.74	16.72	16.72	16.52	16.80		
15	64QAM	36	0	17.01	16.84	16.88	16.86	16.81		
15	64QAM	36	20	17.02	16.97	17.07	16.97	17.02		
15	64QAM	36	39	16.88	16.90	17.03	16.86	17.02		
15	64QAM	75	0	16.96	16.91	16.99	16.94	16.86	18	
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	16.86	16.61	16.61	16.66	16.50	18	
10	QPSK	1	25	16.80	16.85	16.86	16.80	16.71		
10	QPSK	1	49	16.85	16.64	16.76	16.53	16.71		
10	QPSK	25	0	16.96	16.82	16.87	16.79	16.71		
10	QPSK	25	12	16.98	16.90	16.91	16.88	16.91		
10	QPSK	25	25	16.91	16.80	16.92	16.77	16.90	18	
10	QPSK	50	0	16.86	16.81	16.96	16.78	16.80		
10	16QAM	1	0	16.89	16.64	16.80	16.78	16.64		
10	16QAM	1	25	16.79	16.76	16.95	16.88	16.92		
10	16QAM	1	49	16.85	16.67	16.86	16.71	16.92		
10	16QAM	25	0	16.94	16.66	16.76	16.72	16.70	18	
10	16QAM	25	12	16.87	16.82	16.92	16.86	16.91		
10	16QAM	25	25	16.86	16.76	16.89	16.75	16.86		
10	16QAM	50	0	16.96	16.86	16.96	16.90	16.80		
10	64QAM	1	0	16.84	16.35	16.51	16.59	16.43		
10	64QAM	1	25	16.73	16.78	16.73	16.70	16.71	18	
10	64QAM	1	49	16.70	16.67	16.72	16.43	16.77		
10	64QAM	25	0	16.97	16.84	16.86	16.85	16.78		
10	64QAM	25	12	16.96	16.86	16.89	16.90	16.99		
10	64QAM	25	25	16.89	16.86	16.95	16.79	16.93		
10	64QAM	50	0	16.96	16.82	16.96	16.88	16.77	18	
Channel				39675	40146	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.38	2687.5		
5	QPSK	1	0	16.75	16.57	16.65	16.58	16.71	18	
5	QPSK	1	12	16.66	16.64	16.72	16.64	16.71		
5	QPSK	1	24	16.84	16.58	16.67	16.56	16.65		
5	QPSK	12	0	16.83	16.74	16.75	16.67	16.77		
5	QPSK	12	7	16.85	16.82	16.82	16.70	16.77		
5	QPSK	12	13	16.78	16.78	16.82	16.74	16.76	18	
5	QPSK	25	0	16.78	16.80	16.81	16.68	16.75		
5	16QAM	1	0	16.89	16.71	16.80	16.71	16.79		
5	16QAM	1	12	16.85	16.68	16.88	16.86	16.83		
5	16QAM	1	24	16.88	16.79	16.85	16.75	16.85		
5	16QAM	12	0	16.80	16.71	16.76	16.67	16.76	18	
5	16QAM	12	7	16.79	16.78	16.85	16.67	16.80		
5	16QAM	12	13	16.78	16.77	16.82	16.71	16.73		
5	16QAM	25	0	16.83	16.79	16.83	16.71	16.78		
5	64QAM	1	0	16.67	16.39	16.60	16.64	16.60		
5	64QAM	1	12	16.57	16.77	16.67	16.68	16.66	18	
5	64QAM	1	24	16.59	16.75	16.69	16.66	16.64		
5	64QAM	12	0	16.84	16.78	16.83	16.77	16.83		
5	64QAM	12	7	16.85	16.89	16.90	16.74	16.84		
5	64QAM	12	13	16.81	16.85	16.85	16.79	16.81		
5	64QAM	25	0	16.83	16.86	16.91	16.75	16.84	18	



Band 41_Ant 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)				2500	2543.3	2587	2630.5	2674	
20	QPSK	1	0	16.83	16.72	16.42	16.44	16.31	18
20	QPSK	1	49	16.77	16.70	16.79	16.66	16.69	
20	QPSK	1	99	16.74	16.76	16.49	16.30	16.64	
20	QPSK	50	0	16.99	16.85	16.80	16.76	16.70	
20	QPSK	50	24	16.88	16.84	17.04	16.84	16.85	18
20	QPSK	50	50	16.94	16.92	16.93	16.76	16.92	
20	QPSK	100	0	16.89	16.79	16.91	16.71	16.77	
20	16QAM	1	0	17.17	17.01	16.77	16.84	16.67	
20	16QAM	1	49	17.07	17.01	17.20	17.02	17.10	18
20	16QAM	1	99	17.10	17.06	16.86	16.61	17.04	
20	16QAM	50	0	17.01	16.85	16.84	16.81	16.73	
20	16QAM	50	24	16.97	16.95	17.06	16.89	16.89	
20	16QAM	50	50	16.88	16.86	16.96	16.82	16.97	18
20	16QAM	100	0	16.88	16.83	16.94	16.77	16.80	
20	64QAM	1	0	17.11	16.85	16.60	16.73	16.49	
20	64QAM	1	49	16.95	17.03	17.10	17.01	16.98	
20	64QAM	1	99	16.99	17.18	16.80	16.57	16.94	18
20	64QAM	50	0	17.01	16.91	16.85	16.83	16.76	
20	64QAM	50	24	16.98	17.01	17.04	16.90	16.92	
20	64QAM	50	50	16.92	17.01	16.98	16.83	16.97	
20	64QAM	100	0	16.91	16.89	16.93	16.79	16.83	
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	16.87	16.60	16.62	16.61	16.48	18
15	QPSK	1	37	16.86	16.81	16.62	16.75	16.74	
15	QPSK	1	74	16.84	16.58	16.67	16.52	16.72	
15	QPSK	36	0	16.99	16.78	16.85	16.80	16.72	
15	QPSK	36	20	16.87	16.91	17.00	16.87	16.95	18
15	QPSK	36	39	16.92	16.85	16.97	16.81	16.93	
15	QPSK	75	0	16.92	16.87	16.96	16.86	16.80	
15	16QAM	1	0	17.18	16.99	16.92	16.97	16.98	
15	16QAM	1	37	17.12	17.00	17.17	17.07	17.17	18
15	16QAM	1	74	17.08	16.83	17.05	16.81	17.14	
15	16QAM	36	0	16.94	16.71	16.82	16.79	16.76	
15	16QAM	36	20	16.94	16.95	16.97	16.90	16.92	
15	16QAM	36	39	16.95	16.77	16.95	16.90	16.91	18
15	16QAM	75	0	16.92	16.84	16.96	16.88	16.80	
15	64QAM	1	0	17.06	16.64	16.75	16.82	16.66	
15	64QAM	1	37	17.01	17.15	17.07	16.97	16.99	
15	64QAM	1	74	16.95	16.92	16.91	16.73	17.01	18
15	64QAM	36	0	17.03	16.94	16.87	16.84	16.79	
15	64QAM	36	20	16.99	16.95	17.05	16.95	16.96	
15	64QAM	36	39	17.00	16.89	16.98	16.85	16.97	
15	64QAM	75	0	16.94	16.89	16.98	16.90	16.83	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2638	2685	
10	QPSK	1	0	16.80	16.67	16.37	16.34	16.27	18
10	QPSK	1	25	16.73	16.62	16.77	16.58	16.59	
10	QPSK	1	49	16.69	16.69	16.44	16.25	16.58	
10	QPSK	25	0	16.94	16.80	16.75	16.75	16.70	
10	QPSK	25	12	16.90	16.85	16.95	16.81	16.81	18
10	QPSK	25	25	16.87	16.83	16.87	16.75	16.82	
10	QPSK	50	0	16.84	16.74	16.90	16.61	16.72	
10	16QAM	1	0	17.10	17.00	16.69	16.81	16.58	
10	16QAM	1	25	17.02	17.01	17.17	16.93	17.03	18
10	16QAM	1	49	17.08	17.02	16.83	16.52	17.01	
10	16QAM	25	0	16.99	16.85	16.78	16.73	16.67	
10	16QAM	25	12	16.93	16.89	16.97	16.79	16.79	
10	16QAM	25	25	16.96	16.94	16.96	16.74	16.90	18
10	16QAM	50	0	16.76	16.77	16.80	16.73	16.71	
10	64QAM	1	0	17.07	16.81	16.59	16.64	16.44	
10	64QAM	1	25	16.91	16.93	17.02	16.98	16.93	
10	64QAM	1	49	16.92	17.14	16.79	16.53	16.90	18
10	64QAM	25	0	16.98	16.90	16.80	16.76	16.76	
10	64QAM	25	12	16.94	17.01	16.94	16.85	16.89	
10	64QAM	25	25	16.89	16.94	16.90	16.75	16.88	
10	64QAM	50	0	16.82	16.81	16.91	16.79	16.81	
Channel				39675	40146	40620	41063	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5	
5	QPSK	1	0	16.66	16.46	16.59	16.49	16.58	18
5	QPSK	1	12	16.59	16.57	16.64	16.55	16.60	
5	QPSK	1	24	16.61	16.50	16.61	16.50	16.55	
5	QPSK	12	0	16.82	16.70	16.75	16.65	16.77	
5	QPSK	12	7	16.85	16.78	16.85	16.68	16.78	18
5	QPSK	12	13	16.79	16.77	16.77	16.69	16.72	
5	QPSK	25	0	16.76	16.76	16.80	16.65	16.73	
5	16QAM	1	0	16.94	16.89	16.88	16.79	16.84	
5	16QAM	1	12	16.91	16.91	16.89	16.86	16.85	18
5	16QAM	1	24	16.93	16.94	16.90	16.84	16.79	
5	16QAM	12	0	16.82	16.74	16.81	16.73	16.81	
5	16QAM	12	7	16.87	16.85	16.88	16.71	16.80	
5	16QAM	12	13	16.80	16.81	16.82	16.77	16.79	18
5	16QAM	25	0	16.82	16.81	16.86	16.69	16.79	
5	64QAM	1	0	16.87	16.75	16.82	16.71	16.79	
5	64QAM	1	12	16.85	16.87	16.86	16.79	16.82	
5	64QAM	1	24	16.85	16.84	16.87	16.80	16.78	18
5	64QAM	12	0	16.87	16.77	16.81	16.75	16.84	
5	64QAM	12	7	16.86	16.87	16.93	16.76	16.85	
5	64QAM	12	13	16.83	16.86	16.88	16.81	16.81	
5	64QAM	25	0	16.81	16.85	16.90	16.73	16.81	



Band 38_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				37650	38000	38150	
Frequency (MHz)				2568	2595	2610	
20	QPSK	1	0	20.21	20.20	20.13	21.5
20	QPSK	1	49	20.28	20.23	20.17	
20	QPSK	1	99	20.26	20.23	20.17	
20	QPSK	50	0	20.12	20.10	20.02	
20	QPSK	50	24	20.29	20.29	20.13	
20	QPSK	50	50	20.23	20.19	20.12	21.5
20	QPSK	100	0	20.21	20.19	20.03	
20	16QAM	1	0	20.34	20.34	20.24	
20	16QAM	1	49	20.39	20.31	20.22	
20	16QAM	1	99	20.42	20.31	20.26	
20	16QAM	50	0	20.15	20.11	20.05	21.5
20	16QAM	50	24	20.34	20.30	20.14	
20	16QAM	50	50	20.26	20.19	20.13	
20	16QAM	100	0	20.21	20.19	20.05	
20	64QAM	1	0	20.08	20.10	20.00	
20	64QAM	1	49	20.16	20.07	20.06	21.5
20	64QAM	1	99	20.21	20.13	20.06	
20	64QAM	50	0	20.15	20.12	20.05	
20	64QAM	50	24	20.35	20.30	20.16	
20	64QAM	50	50	20.26	20.22	20.16	
20	64QAM	100	0	20.24	20.18	20.07	
Channel				37625	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	20.21	20.15	20.10	21.5
15	QPSK	1	37	20.21	20.16	20.10	
15	QPSK	1	74	20.21	20.16	20.11	
15	QPSK	36	0	20.19	20.14	20.06	
15	QPSK	36	20	20.32	20.31	20.15	
15	QPSK	36	39	20.25	20.21	20.15	21.5
15	QPSK	75	0	20.26	20.22	20.08	
15	16QAM	1	0	20.32	20.30	20.25	
15	16QAM	1	37	20.27	20.24	20.24	
15	16QAM	1	74	20.41	20.30	20.26	
15	16QAM	36	0	20.12	20.08	20.00	21.5
15	16QAM	36	20	20.30	20.25	20.11	
15	16QAM	36	39	20.23	20.19	20.11	
15	16QAM	75	0	20.28	20.22	20.08	
15	64QAM	1	0	20.00	19.99	19.98	
15	64QAM	1	37	20.11	20.06	20.04	21.5
15	64QAM	1	74	20.20	20.10	20.03	
15	64QAM	36	0	20.19	20.16	20.08	
15	64QAM	36	20	20.35	20.32	20.16	
15	64QAM	36	39	20.26	20.23	20.17	
15	64QAM	75	0	20.28	20.22	20.08	
Channel				37600	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	20.12	20.10	20.03	21.5
10	QPSK	1	25	20.11	20.14	20.07	
10	QPSK	1	49	20.11	20.14	20.08	
10	QPSK	25	0	20.14	20.08	20.04	
10	QPSK	25	12	20.23	20.30	20.05	
10	QPSK	25	25	20.15	20.14	20.08	21.5
10	QPSK	50	0	20.18	20.14	20.08	
10	16QAM	1	0	20.30	20.20	20.18	
10	16QAM	1	25	20.24	20.15	20.19	
10	16QAM	1	49	20.41	20.25	20.27	
10	16QAM	25	0	20.07	20.03	19.96	21.5
10	16QAM	25	12	20.21	20.21	20.09	
10	16QAM	25	25	20.15	20.17	20.06	
10	16QAM	50	0	20.24	20.16	20.03	
10	64QAM	1	0	19.90	19.97	19.88	
10	64QAM	1	25	20.08	20.02	19.95	21.5
10	64QAM	1	49	20.12	20.01	19.97	
10	64QAM	25	0	20.12	20.15	20.07	
10	64QAM	25	12	20.32	20.28	20.07	
10	64QAM	25	25	20.20	20.14	20.09	
10	64QAM	50	0	20.27	20.19	20.07	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.87	19.87	19.82	21.5
5	QPSK	1	12	19.97	19.97	19.91	
5	QPSK	1	24	19.96	19.95	19.84	
5	QPSK	12	0	20.07	19.99	19.91	
5	QPSK	12	7	20.13	20.10	20.04	
5	QPSK	12	13	20.13	20.10	19.99	21.5
5	QPSK	25	0	20.07	20.06	19.98	
5	16QAM	1	0	20.00	20.03	19.97	
5	16QAM	1	12	20.13	20.17	20.13	
5	16QAM	1	24	20.08	20.15	20.10	
5	16QAM	12	0	20.05	19.98	19.92	21.5
5	16QAM	12	7	20.08	20.11	20.03	
5	16QAM	12	13	20.07	20.08	19.99	
5	16QAM	25	0	20.09	20.11	20.06	
5	64QAM	1	0	19.85	19.70	19.69	
5	64QAM	1	12	19.90	19.86	19.82	21.5
5	64QAM	1	24	19.90	19.86	19.84	
5	64QAM	12	0	20.11	20.00	19.93	
5	64QAM	12	7	20.15	20.14	20.06	
5	64QAM	12	13	20.15	20.09	20.05	
5	64QAM	25	0	20.15	20.13	20.03	



4G TDD Body_Ant 0_Table 4

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Band 41_Ant 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)	Time-up limit (min)	
Channel				39750	40185	40620	41055	41490			
Frequency (MHz)				2566	2549.5	2593	2636.5	2680			
20	QPSK	1	0	21.35	21.26	20.95	20.99	20.84	22		
20	QPSK	1	49	21.36	21.33	21.37	21.25	21.28			
20	QPSK	1	99	21.31	21.31	21.09	20.88	21.19			
20	QPSK	50	0	21.43	21.29	21.26	21.21	21.14			
20	QPSK	50	24	21.44	21.38	21.47	21.28	21.34	22		
20	QPSK	50	50	21.36	21.36	21.40	21.22	21.33			
20	QPSK	100	0	21.34	21.27	21.38	21.18	21.22			
20	16QAM	1	0	21.64	21.50	21.11	21.15	21.00			
20	16QAM	1	49	21.40	21.41	21.49	21.41	21.39	22		
20	16QAM	1	99	21.44	21.49	21.24	20.96	21.33			
20	16QAM	50	0	21.43	21.35	21.30	21.26	21.19			
20	16QAM	50	24	21.43	21.45	21.51	21.33	21.35			
20	16QAM	50	50	21.37	21.43	21.43	21.27	21.42	22		
20	16QAM	100	0	21.34	21.33	21.42	21.23	21.27			
20	64QAM	1	0	21.28	21.23	20.75	20.86	20.84			
20	64QAM	1	49	21.19	21.09	21.21	21.11	21.12			
20	64QAM	1	99	21.25	21.20	20.94	20.72	21.08	22		
20	64QAM	50	0	20.97	20.81	20.78	20.74	20.67			
20	64QAM	50	24	20.95	20.92	20.98	20.82	20.84			
20	64QAM	50	50	20.92	20.90	20.92	20.75	20.90			
20	64QAM	100	0	20.90	20.83	20.89	20.71	20.75	Tune-up limit (dBm)		
Channel				39725	40173	40620	41068	41515			
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5			
15	QPSK	1	0	21.38	21.02	21.13	21.08	20.95	22		
15	QPSK	1	37	21.33	21.24	21.32	21.23	21.26			
15	QPSK	1	74	21.32	21.04	21.21	20.99	21.23			
15	QPSK	36	0	21.44	21.24	21.28	21.23	21.18			
15	QPSK	36	20	21.42	21.40	21.45	21.33	21.38	22		
15	QPSK	36	39	21.40	21.30	21.41	21.26	21.36			
15	QPSK	75	0	21.39	21.32	21.42	21.30	21.25			
15	16QAM	1	0	21.51	21.29	21.28	21.29	21.14			
15	16QAM	1	37	21.40	21.41	21.44	21.41	21.40	22		
15	16QAM	1	74	21.47	21.28	21.38	21.22	21.39			
15	16QAM	36	0	21.40	21.24	21.29	21.23	21.16			
15	16QAM	36	20	21.40	21.40	21.45	21.35	21.37			
15	16QAM	36	39	21.36	21.32	21.42	21.25	21.38	22		
15	16QAM	75	0	21.40	21.39	21.44	21.32	21.28			
15	64QAM	1	0	21.25	20.94	20.91	21.01	20.82			
15	64QAM	1	37	21.18	21.18	21.23	21.16	21.17			
15	64QAM	1	74	21.23	21.03	21.11	20.94	21.18	22		
15	64QAM	36	0	20.96	20.78	20.81	20.75	20.71			
15	64QAM	36	20	20.97	20.84	20.98	20.87	20.91			
15	64QAM	36	39	20.92	20.84	20.93	20.77	20.91			
15	64QAM	75	0	20.92	20.84	20.93	20.82	20.76	Tune-up limit (dBm)		
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	21.36	20.99	21.06	21.02	20.87	22		
10	QPSK	1	25	21.28	21.23	21.32	21.13	21.26			
10	QPSK	1	49	21.24	20.84	21.19	20.98	21.23			
10	QPSK	25	0	21.34	21.22	21.24	21.16	21.17			
10	QPSK	25	12	21.33	21.32	21.45	21.29	21.29	22		
10	QPSK	25	25	21.40	21.25	21.41	21.24	21.31			
10	QPSK	50	0	21.38	21.25	21.35	21.23	21.16			
10	16QAM	1	0	21.45	21.19	21.22	21.29	21.07			
10	16QAM	1	25	21.38	21.31	21.44	21.40	21.38	22		
10	16QAM	1	49	21.43	21.18	21.29	21.17	21.32			
10	16QAM	25	0	21.39	21.21	21.28	21.14	21.09			
10	16QAM	25	12	21.30	21.39	21.36	21.34	21.32			
10	16QAM	25	25	21.28	21.23	21.35	21.15	21.36	22		
10	16QAM	50	0	21.35	21.33	21.41	21.31	21.18			
10	64QAM	1	0	21.22	20.82	20.81	20.93	20.76			
10	64QAM	1	25	21.13	21.15	21.18	21.11	21.08			
10	64QAM	1	49	21.13	20.93	21.04	20.91	21.14	22		
10	64QAM	25	0	20.88	20.88	20.74	20.75	20.68			
10	64QAM	25	12	20.87	20.88	20.95	20.85	20.81			
10	64QAM	25	25	20.82	20.78	20.84	20.72	20.91			
10	64QAM	50	0	20.84	20.74	20.83	20.78	20.74	Tune-up limit (dBm)		
Channel				39675	40148	40620	41093	41565			
Frequency (MHz)				2498.5	2545.3	2593	2640.3	2687.5			
5	QPSK	1	0	21.20	21.11	21.11	21.03	21.16	22		
5	QPSK	1	12	21.14	21.10	21.16	21.05	21.18			
5	QPSK	1	24	21.15	21.13	21.14	21.03	21.10			
5	QPSK	12	0	21.27	21.18	21.23	21.14	21.24			
5	QPSK	12	7	21.33	21.27	21.31	21.14	21.27	22		
5	QPSK	12	13	21.28	21.22	21.27	21.16	21.26			
5	QPSK	25	0	21.27	21.25	21.27	21.10	21.25			
5	16QAM	1	0	21.37	21.21	21.25	21.14	21.25			
5	16QAM	1	12	21.40	21.29	21.39	21.27	21.35	22		
5	16QAM	1	24	21.39	21.28	21.33	21.22	21.26			
5	16QAM	12	0	21.30	21.19	21.19	21.11	21.20			
5	16QAM	12	7	21.33	21.27	21.28	21.13	21.21			
5	16QAM	12	13	21.28	21.28	21.27	21.16	21.19	22		
5	16QAM	25	0	21.34	21.31	21.32	21.16	21.24			
5	64QAM	1	0	21.14	21.08	20.98	20.98	21.01			
5	64QAM	1	12	21.05	21.15	21.09	21.04	21.02			
5	64QAM	1	24	21.11	21.07	21.08	21.01	21.04	22		
5	64QAM	12	0	20.87	20.73	20.76	20.67	20.75			
5	64QAM	12	7	20.86	20.84	20.85	20.71	20.78			
5	64QAM	12	13	20.93	20.77	20.80	20.71	20.74			
5	64QAM	25	0	20.86	20.82	20.83	20.68	20.76	Tune-up limit (dBm)		



Band 41_Ant 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	21.30	21.24	20.93	20.91	20.75	22	
20	QPSK	1	49	21.25	21.20	21.27	21.15	21.15		
20	QPSK	1	99	21.23	21.25	21.01	20.77	21.09		
20	QPSK	50	0	21.44	21.31	21.26	21.23	21.15		
20	QPSK	50	24	21.44	21.38	21.47	21.31	21.29		
20	QPSK	50	50	21.41	21.39	21.41	21.24	21.36	22	
20	QPSK	100	0	21.36	21.28	21.35	21.19	21.22		
20	16QAM	1	0	21.84	21.86	21.27	21.26	21.11		
20	16QAM	1	49	21.59	21.57	21.65	21.52	21.51		
20	16QAM	1	99	21.58	21.69	21.39	21.12	21.44		
20	16QAM	50	0	21.45	21.36	21.33	21.27	21.21	22	
20	16QAM	50	24	21.45	21.48	21.51	21.34	21.35		
20	16QAM	50	50	21.41	21.45	21.45	21.27	21.41		
20	16QAM	100	0	21.38	21.37	21.43	21.22	21.27		
20	64QAM	1	0	21.56	21.46	21.04	21.10	20.92		
20	64QAM	1	49	21.45	21.38	21.50	21.34	21.39	22	
20	64QAM	1	99	21.49	21.50	21.22	20.97	21.33		
20	64QAM	50	0	21.46	21.32	21.30	21.26	21.19		
20	64QAM	50	24	21.45	21.49	21.51	21.33	21.37		
20	64QAM	50	50	21.42	21.42	21.45	21.27	21.41		
20	64QAM	100	0	21.38	21.34	21.41	21.23	21.26		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	21.36	21.02	21.11	21.05	20.91	22	
15	QPSK	1	37	21.31	21.23	21.32	21.20	21.21		
15	QPSK	1	74	21.31	21.00	21.17	20.97	21.17		
15	QPSK	36	0	21.46	21.24	21.28	21.25	21.16		
15	QPSK	36	20	21.44	21.41	21.44	21.35	21.37		
15	QPSK	36	39	21.42	21.30	21.41	21.27	21.37	22	
15	QPSK	75	0	21.39	21.33	21.41	21.27	21.25		
15	16QAM	1	0	21.68	21.41	21.41	21.41	21.25		
15	16QAM	1	37	21.59	21.64	21.64	21.57	21.54		
15	16QAM	1	74	21.60	21.44	21.49	21.35	21.55		
15	16QAM	36	0	21.42	21.29	21.30	21.25	21.19	22	
15	16QAM	36	20	21.40	21.43	21.48	21.34	21.36		
15	16QAM	36	39	21.38	21.35	21.44	21.28	21.37		
15	16QAM	75	0	21.40	21.37	21.44	21.33	21.26		
15	64QAM	1	0	21.53	21.24	21.18	21.24	21.07		
15	64QAM	1	37	21.49	21.46	21.47	21.40	21.42	22	
15	64QAM	1	74	21.49	21.24	21.38	21.18	21.42		
15	64QAM	36	0	21.46	21.26	21.30	21.26	21.21		
15	64QAM	36	20	21.47	21.53	21.49	21.37	21.40		
15	64QAM	36	39	21.43	21.31	21.45	21.27	21.29		
15	64QAM	75	0	21.41	21.33	21.44	21.32	21.27		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	21.09	20.78	20.76	20.71	20.77	22	
10	QPSK	1	25	21.05	21.04	21.03	20.97	21.02		
10	QPSK	1	49	21.13	20.80	20.86	20.77	20.82		
10	QPSK	25	0	21.27	21.09	21.13	21.02	21.08		
10	QPSK	25	12	21.28	21.26	21.29	21.09	21.25		
10	QPSK	25	25	21.25	21.14	21.18	21.06	21.13	22	
10	QPSK	50	0	21.20	21.18	21.18	21.01	21.18		
10	16QAM	1	0	21.47	21.17	21.17	21.09	21.12		
10	16QAM	1	25	21.44	21.41	21.44	21.33	21.32		
10	16QAM	1	49	21.44	21.14	21.19	21.10	21.10		
10	16QAM	25	0	21.33	21.14	21.17	21.07	21.10	22	
10	16QAM	25	12	21.34	21.32	21.33	21.16	21.27		
10	16QAM	25	25	21.27	21.22	21.23	21.13	21.14		
10	16QAM	50	0	21.29	21.21	21.25	21.08	21.18		
10	64QAM	1	0	21.43	21.05	21.03	20.96	20.97		
10	64QAM	1	25	21.32	21.43	21.35	21.36	21.35	22	
10	64QAM	1	49	21.34	21.10	21.09	21.01	21.03		
10	64QAM	25	0	21.35	21.18	21.20	21.12	21.16		
10	64QAM	25	12	21.37	21.38	21.36	21.20	21.32		
10	64QAM	25	25	21.33	21.23	21.26	21.17	21.20		
10	64QAM	50	0	21.22	21.21	21.23	21.06	21.17		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.3	2593	2640.3	2687.5		
5	QPSK	1	0	21.15	21.01	20.98	20.91	21.05	22	
5	QPSK	1	12	21.07	21.04	21.09	21.02	21.08		
5	QPSK	1	24	21.07	21.05	21.07	20.94	21.01		
5	QPSK	12	0	21.29	21.20	21.18	21.09	21.21		
5	QPSK	12	7	21.32	21.25	21.27	21.13	21.26		
5	QPSK	12	13	21.26	21.23	21.24	21.16	21.18	22	
5	QPSK	25	0	21.24	21.21	21.26	21.07	21.19		
5	16QAM	1	0	21.45	21.28	21.34	21.20	21.31		
5	16QAM	1	12	21.41	21.31	21.38	21.27	21.33		
5	16QAM	1	24	21.45	21.33	21.40	21.26	21.31		
5	16QAM	12	0	21.35	21.23	21.22	21.14	21.23	22	
5	16QAM	12	7	21.38	21.30	21.30	21.15	21.23		
5	16QAM	12	13	21.33	21.25	21.29	21.19	21.23		
5	16QAM	25	0	21.35	21.30	21.31	21.16	21.23		
5	64QAM	1	0	21.33	21.21	21.22	21.20	21.23		
5	64QAM	1	12	21.31	21.28	21.29	21.21	21.24	22	
5	64QAM	1	24	21.33	21.27	21.30	21.18	21.18		
5	64QAM	12	0	21.34	21.22	21.23	21.17	21.24		
5	64QAM	12	7	21.35	21.34	21.32	21.17	21.31		
5	64QAM	12	13	21.35	21.28	21.30	21.20	21.20		
5	64QAM	25	0	21.32	21.29	21.30	21.14	21.24		



Band 38_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				37650	38000	38150	20
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	19.41	19.40	19.39	20
20	QPSK	1	49	19.40	19.36	19.28	
20	QPSK	1	99	19.32	19.24	19.19	
20	QPSK	50	0	19.27	19.25	19.21	
20	QPSK	50	24	19.42	19.37	19.28	
20	QPSK	50	50	19.29	19.25	19.22	20
20	QPSK	100	0	19.32	19.28	19.17	
20	16QAM	1	0	19.57	19.59	19.56	
20	16QAM	1	49	19.51	19.44	19.43	
20	16QAM	1	99	19.47	19.38	19.36	
20	16QAM	50	0	19.30	19.28	19.26	20
20	16QAM	50	24	19.47	19.44	19.32	
20	16QAM	50	50	19.34	19.31	19.23	
20	16QAM	100	0	19.34	19.34	19.20	
20	64QAM	1	0	19.15	19.16	19.11	
20	64QAM	1	49	19.14	19.04	19.05	20
20	64QAM	1	99	19.11	19.00	19.00	
20	64QAM	50	0	19.29	19.27	19.23	
20	64QAM	50	24	19.46	19.40	19.29	
20	64QAM	50	50	19.32	19.26	19.21	
20	64QAM	100	0	19.32	19.30	19.18	20
Channel				37625	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	Tune-up limit (dBm)
15	QPSK	1	0	19.35	19.36	19.31	20
15	QPSK	1	37	19.32	19.30	19.24	
15	QPSK	1	74	19.25	19.25	19.19	
15	QPSK	36	0	19.28	19.28	19.22	
15	QPSK	36	39	19.33	19.27	19.21	
15	QPSK	75	0	19.37	19.35	19.18	20
15	16QAM	1	0	19.55	19.55	19.51	
15	16QAM	1	37	19.41	19.42	19.40	
15	16QAM	1	74	19.49	19.41	19.35	
15	16QAM	36	0	19.30	19.24	19.18	
15	16QAM	36	20	19.43	19.38	19.24	20
15	16QAM	36	39	19.33	19.27	19.21	
15	16QAM	75	0	19.39	19.38	19.23	
15	64QAM	1	0	19.07	19.09	19.01	
15	64QAM	1	37	19.08	19.06	19.01	
15	64QAM	1	74	19.07	19.00	18.93	20
15	64QAM	36	0	19.32	19.29	19.23	
15	64QAM	36	20	19.42	19.40	19.24	
15	64QAM	36	39	19.33	19.29	19.22	
15	64QAM	75	0	19.37	19.34	19.20	
Channel				37600	38000	38200	20
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.39	19.38	19.37	20
10	QPSK	1	25	19.31	19.30	19.19	
10	QPSK	1	49	19.23	19.15	19.18	
10	QPSK	25	0	19.22	19.25	19.20	
10	QPSK	25	12	19.36	19.32	19.28	
10	QPSK	25	25	19.22	19.20	19.15	20
10	QPSK	50	0	19.23	19.25	19.12	
10	16QAM	1	0	19.54	19.56	19.56	
10	16QAM	1	25	19.43	19.40	19.35	
10	16QAM	1	49	19.45	19.38	19.28	
10	16QAM	25	0	19.25	19.18	19.25	20
10	16QAM	25	12	19.45	19.41	19.24	
10	16QAM	25	25	19.30	19.21	19.23	
10	16QAM	50	0	19.26	19.25	19.19	
10	64QAM	1	0	19.07	19.09	19.10	
10	64QAM	1	25	19.12	19.02	18.95	20
10	64QAM	1	49	19.05	18.95	18.90	
10	64QAM	25	0	19.24	19.17	19.21	
10	64QAM	25	12	19.40	19.38	19.28	
10	64QAM	25	25	19.20	19.22	19.14	
10	64QAM	50	0	19.27	19.22	19.15	20
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	Tune-up limit (dBm)
5	QPSK	1	0	19.01	18.99	18.89	20
5	QPSK	1	12	19.05	19.08	18.99	
5	QPSK	1	24	19.07	19.02	18.93	
5	QPSK	12	0	19.16	19.08	19.01	
5	QPSK	12	7	19.19	19.21	19.11	
5	QPSK	12	13	19.16	19.14	19.06	20
5	QPSK	25	0	19.15	19.14	19.05	
5	16QAM	1	0	19.14	19.10	19.00	
5	16QAM	1	12	19.30	19.28	19.20	
5	16QAM	1	24	19.22	19.16	19.10	
5	16QAM	12	0	19.12	19.05	18.93	20
5	16QAM	12	7	19.17	19.14	19.06	
5	16QAM	12	13	19.16	19.13	19.01	
5	16QAM	25	0	19.20	19.15	19.05	
5	64QAM	1	0	18.82	18.77	18.66	
5	64QAM	1	12	18.91	18.85	18.78	20
5	64QAM	1	24	18.87	18.82	18.71	
5	64QAM	12	0	19.18	19.16	19.05	
5	64QAM	12	7	19.30	19.24	19.18	
5	64QAM	12	13	19.21	19.23	19.10	
5	64QAM	25	0	19.21	19.24	19.14	20
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.01	18.99	18.89	20
5	QPSK	1	12	19.05	19.08	18.99	
5	QPSK	1	24	19.07	19.02	18.93	
5	QPSK	12	0	19.16	19.08	19.01	
5	QPSK	12	7	19.19	19.21	19.11	
5	QPSK	12	13	19.16	19.14	19.06	20
5	QPSK	25	0	19.15	19.14	19.05	
5	16QAM	1	0	19.14	19.10	19.00	
5	16QAM	1	12	19.30	19.28	19.20	
5	16QAM	1	24	19.22	19.16	19.10	
5	16QAM	12	0	19.12	19.05	18.93	20
5	16QAM	12	7	19.17	19.14	19.06	
5	16QAM	12	13	19.16	19.13	19.01	
5	16QAM	25	0	19.20	19.15	19.05	
5	64QAM	1	0	18.82	18.77	18.66	
5	64QAM	1	12	18.91	18.85	18.78	20
5	64QAM	1	24	18.87	18.82	18.71	
5	64QAM	12	0	19.18	19.16	19.05	
5	64QAM	12	7	19.30	19.24	19.18	
5	64QAM	12	13	19.21	19.23	19.10	
5	64QAM	25	0	19.21	19.24	19.14	20
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.01	18.99	18.89	20
5	QPSK	1	12	19.05	19.08	18.99	
5	QPSK	1	24	19.07	19.02	18.93	
5	QPSK	12	0	19.16	19.08	19.01	
5	QPSK	12	7	19.19	19.21	19.11	
5	QPSK	12	13	19.16	19.14	19.06	20
5	QPSK	25	0	19.15	19.14	19.05	
5	16QAM	1	0	19.14	19.10	19.00	
5	16QAM	1	12	19.30	19.28	19.20	
5	16QAM	1	24	19.22	19.16	19.10	
5	16QAM	12	0	19.12	19.05	18.93	20
5	16QAM	12	7	19.17	19.14	19.06	
5	16QAM	12	13	19.16	19.13	19.01	
5	16QAM	25	0	19.20	19.15	19.05	
5	64QAM	1	0	18.82	18.77	18.66	
5	64QAM	1	12	18.91	18.85	18.78	20
5	64QAM	1	24	18.87	18.82	18.71	
5	64QAM	12	0	19.18	19.16	19.05	
5	64QAM	12	7	19.30	19.24	19.18	
5	64QAM	12	13	19.21	19.23	19.10	
5	64QAM	25	0	19.21	19.24	19.14	20
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.01	18.99	18.89	20
5	QPSK	1	12	19.05	19.08	18.99	
5	QPSK	1	24	19.07	19.02	18.93	
5	QPSK	12	0	19.16	19.08	19.01	
5	QPSK	12	7	19.19	19.21	19.11	
5	QPSK	12	13	19.16	19.14	19.06	20
5	QPSK	25	0	19.15	19.14	19.05	
5	16QAM	1	0	19.14	19.10	19.00	
5	16QAM	1	12	19.30	19.28	19.20	
5	16QAM	1	24	19.22	19.16	19.10	
5	16QAM	12	0	19.12	19.05	18.93	20
5	16QAM	12	7	19.17	19.14	19.06	
5	16QAM	12	13	19.16	19.13	19.01	
5	16QAM	25	0	19.20	19.15	19.05	
5	64QAM	1	0	18.82	18.77	18.66	
5	64QAM	1	12	18.91	18.85	18.78	20
5	64QAM	1	24	18.87	18.82	18.71	
5	64QAM	12	0	19.18	19.16	19.05	
5	64QAM	12	7	19.30	19.24	19.18	
5	64QAM	12	13	19.21	19.23	19.10	
5	64QAM	25	0	19.21	19.24	19.14	20
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.01	18.99	18.89	20
5	QPSK	1	12	19.05	19.08	18.99	
5	QPSK	1	24	19.07	19.02	18.93	
5	QPSK	12	0	19.16	19.08	19.01	
5	QPSK	12	7	19.19	19.21	19.11	
5	QPSK	12	13	19.16	19.14	19.06	20
5	QPSK	25	0	19.15	19.14	19.05	
5	16QAM	1	0	19.14	19.10	19.00	
5	16QAM	1	12	19.30	19.28	19.20	
5	16QAM	1	24	19.22	19.16	19.10	
5	16QAM	12	0	19.12	19.05	18.93	20
5	16QAM	12	7	19.17	19.14	19.06	
5	16QAM	12	13	19.16	19.13	19.01	
5	16QAM	25	0	19.20	19.15	19.05	
5	64QAM	1	0	18.82	18.77	18.66	
5	64QAM	1	12	18.91	18.85	18.78	20
5	64QAM	1	24	18.87	18.82	18.71	
5	64QAM	12	0	19.18	19.16	19.05	
5	64QAM	12	7	19.30	19.24	19.18	
5	64QAM	12	13	19.21	19.23	19.10	
5	64QAM	25	0	19.21	19.24	19.14	20
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.01	18.99	18.89	20
5	QPSK	1	12	19.05	19.08	18.99	
5	QPSK	1	24	19.07	19.02	18.93	
5	QPSK	12	0	19.16	19.08	19.01	
5	QPSK	12	7	19.19	19.21	19.11	
5	QPSK	12	13	19.16	19.14	19.06	20
5	QPSK	25	0	19.15	19.14	19.05	
5	16QAM	1	0	19.14	19.10	19.00	
5	16QAM	1	12	19.30	19.28	19.20	
5	16QAM	1	24	19.22	19.16	19.10	
5	16QAM	12	0	19.12	19.05	18.9	



Band 41_Ant 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)				2500	2543.5	2587	2630.5	2674	
20	QPSK	1	0	18.40	18.30	18.07	18.10	17.92	19
20	QPSK	1	49	18.41	18.34	18.45	18.38	18.36	
20	QPSK	1	99	18.34	18.34	18.14	17.95	18.29	
20	QPSK	50	0	18.48	18.36	18.32	18.29	18.24	
20	QPSK	50	24	18.48	18.45	18.53	18.37	18.38	
20	QPSK	50	50	18.41	18.45	18.45	18.31	18.47	19
20	QPSK	100	0	18.38	18.33	18.42	18.25	18.29	
20	16QAM	1	0	18.61	18.37	18.21	18.23	18.07	
20	16QAM	1	49	18.50	18.33	18.56	18.47	18.46	
20	16QAM	1	99	18.47	18.41	18.30	18.05	18.41	
20	16QAM	50	0	18.51	18.41	18.37	18.35	18.27	19
20	16QAM	50	24	18.52	18.51	18.54	18.41	18.42	
20	16QAM	50	50	18.49	18.52	18.48	18.34	18.46	
20	16QAM	100	0	18.41	18.38	18.46	18.29	18.33	
20	64QAM	1	0	18.31	18.43	17.88	17.92	17.73	
20	64QAM	1	49	18.21	18.26	18.34	18.19	18.25	19
20	64QAM	1	99	18.26	18.41	18.04	17.84	18.21	
20	64QAM	50	0	18.52	18.43	18.37	18.34	18.28	
20	64QAM	50	24	18.49	18.49	18.56	18.40	18.44	
20	64QAM	50	50	18.45	18.59	18.50	18.33	18.50	
20	64QAM	100	0	18.42	18.39	18.46	18.31	18.34	
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	18.39	18.13	18.19	18.10	18.05	19
15	QPSK	1	37	18.38	18.37	18.37	18.19	18.31	
15	QPSK	1	74	18.33	18.15	18.25	18.03	18.30	
15	QPSK	36	0	18.51	18.29	18.35	18.32	18.27	
15	QPSK	36	20	18.47	18.43	18.55	18.42	18.47	
15	QPSK	36	39	18.44	18.34	18.47	18.34	18.46	19
15	QPSK	75	0	18.42	18.37	18.48	18.37	18.34	
15	16QAM	1	0	18.59	18.19	18.37	18.35	18.28	
15	16QAM	1	37	18.47	18.30	18.56	18.56	18.51	
15	16QAM	1	74	18.55	18.23	18.45	18.29	18.51	
15	16QAM	36	0	18.47	18.31	18.34	18.31	18.27	19
15	16QAM	36	20	18.47	18.45	18.53	18.44	18.45	
15	16QAM	36	39	18.48	18.35	18.50	18.34	18.45	
15	16QAM	75	0	18.46	18.44	18.51	18.40	18.38	
15	64QAM	1	0	18.37	18.10	18.06	18.16	17.92	
15	64QAM	1	37	18.28	18.31	18.35	18.28	18.29	19
15	64QAM	1	74	18.30	18.14	18.20	18.09	18.29	
15	64QAM	36	0	18.51	18.36	18.40	18.36	18.32	
15	64QAM	36	20	18.54	18.50	18.59	18.47	18.51	
15	64QAM	36	39	18.49	18.40	18.53	18.40	18.51	
15	64QAM	75	0	18.46	18.42	18.50	18.43	18.37	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	18.34	18.03	18.10	18.09	17.95	19
10	QPSK	1	25	18.30	18.36	18.33	18.12	18.31	
10	QPSK	1	49	18.33	18.12	18.20	18.01	18.25	
10	QPSK	25	0	18.51	18.19	18.35	18.30	18.27	
10	QPSK	25	12	18.37	18.35	18.54	18.38	18.38	
10	QPSK	25	25	18.36	18.25	18.37	18.27	18.39	19
10	QPSK	50	0	18.39	18.29	18.45	18.32	18.26	
10	16QAM	1	0	18.54	18.12	18.32	18.33	18.18	
10	16QAM	1	25	18.39	18.28	18.52	18.55	18.44	
10	16QAM	1	49	18.53	18.14	18.35	18.28	18.49	
10	16QAM	25	0	18.37	18.24	18.28	18.31	18.17	19
10	16QAM	25	12	18.44	18.38	18.43	18.42	18.39	
10	16QAM	25	25	18.47	18.33	18.50	18.33	18.37	
10	16QAM	50	0	18.46	18.40	18.42	18.30	18.28	
10	64QAM	1	0	18.28	18.09	17.99	18.08	17.85	
10	64QAM	1	25	18.25	18.25	18.28	18.20	18.19	19
10	64QAM	1	49	18.24	18.09	18.11	18.09	18.24	
10	64QAM	25	0	18.47	18.28	18.37	18.31	18.32	
10	64QAM	25	12	18.46	18.50	18.51	18.47	18.49	
10	64QAM	25	25	18.46	18.36	18.48	18.36	18.45	
10	64QAM	50	0	18.41	18.34	18.45	18.35	18.37	
Channel				39675	40146	40620	41063	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5	
5	QPSK	1	0	18.28	18.09	18.19	18.22	18.23	19
5	QPSK	1	12	18.14	18.12	18.22	18.20	18.20	
5	QPSK	1	24	18.19	18.10	18.17	18.21	18.15	
5	QPSK	12	0	18.34	18.28	18.28	18.19	18.28	
5	QPSK	12	7	18.31	18.31	18.35	18.22	18.31	
5	QPSK	12	13	18.32	18.30	18.30	18.24	18.25	19
5	QPSK	25	0	18.28	18.29	18.33	18.16	18.28	
5	16QAM	1	0	18.38	18.30	18.30	18.26	18.31	
5	16QAM	1	12	18.38	18.36	18.41	18.31	18.39	
5	16QAM	1	24	18.40	18.36	18.38	18.32	18.31	
5	16QAM	12	0	18.32	18.24	18.26	18.17	18.26	19
5	16QAM	12	7	18.34	18.32	18.34	18.21	18.32	
5	16QAM	12	13	18.29	18.28	18.32	18.23	18.22	
5	16QAM	25	0	18.33	18.36	18.35	18.23	18.33	
5	64QAM	1	0	18.15	18.03	18.09	18.20	18.09	
5	64QAM	1	12	18.13	18.25	18.17	18.09	18.11	19
5	64QAM	1	24	18.12	18.23	18.14	18.17	18.12	
5	64QAM	12	0	18.35	18.30	18.32	18.27	18.34	
5	64QAM	12	7	18.38	18.37	18.40	18.27	18.35	
5	64QAM	12	13	18.36	18.35	18.39	18.29	18.33	
5	64QAM	25	0	18.38	18.34	18.38	18.25	18.32	



4G TDD Body_Ant 0_Table 5

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Band 41_Ant 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)				2500	2549.5	2593	2636.5	2680			
20	QPSK	1	0	18.29	18.26	17.91	17.59	17.81	19		
20	QPSK	1	49	18.23	18.22	18.30	18.19	18.23			
20	QPSK	1	99	18.22	18.24	18.02	17.82	18.17			
20	QPSK	50	0	18.45	18.32	18.30	18.29	18.22			
20	QPSK	50	24	18.45	18.43	18.52	18.36	18.36	19		
20	QPSK	50	50	18.44	18.45	18.43	18.28	18.45			
20	QPSK	100	0	18.35	18.30	18.41	18.24	18.29			
20	16QAM	1	0	18.74	18.68	18.27	18.39	18.14			
20	16QAM	1	49	18.62	18.63	18.68	18.60	18.64	19		
20	16QAM	1	99	18.64	18.71	18.40	18.21	18.52			
20	16QAM	50	0	18.50	18.42	18.35	18.34	18.27			
20	16QAM	50	24	18.49	18.50	18.55	18.39	18.41			
20	16QAM	50	50	18.44	18.48	18.49	18.33	18.49	19		
20	16QAM	100	0	18.39	18.37	18.46	18.29	18.35			
20	64QAM	1	0	18.62	18.58	18.13	18.18	18.00			
20	64QAM	1	49	18.47	18.47	18.55	18.44	18.49			
20	64QAM	1	99	18.55	18.60	18.27	18.05	18.43	19		
20	64QAM	50	0	18.50	18.41	18.36	18.34	18.25			
20	64QAM	50	24	18.47	18.47	18.57	18.40	18.42			
20	64QAM	50	50	18.43	18.47	18.50	18.31	18.49			
20	64QAM	100	0	18.40	18.39	18.45	18.30	18.33			
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	18.33	18.06	18.12	18.05	17.97	19		
15	QPSK	1	37	18.27	18.30	18.33	18.17	18.27			
15	QPSK	1	74	18.27	18.05	18.18	17.97	18.24			
15	QPSK	36	0	18.49	18.26	18.33	18.33	18.24			
15	QPSK	36	20	18.44	18.38	18.50	18.44	18.47	19		
15	QPSK	36	39	18.43	18.31	18.46	18.32	18.42			
15	QPSK	75	0	18.41	18.32	18.43	18.35	18.31			
15	16QAM	1	0	18.67	18.42	18.43	18.54	18.37			
15	16QAM	1	37	18.63	18.54	18.69	18.70	18.62	19		
15	16QAM	1	74	18.66	18.36	18.57	18.45	18.62			
15	16QAM	36	0	18.48	18.29	18.35	18.30	18.25			
15	16QAM	36	20	18.46	18.43	18.50	18.40	18.46			
15	16QAM	36	39	18.45	18.36	18.47	18.33	18.43	19		
15	16QAM	75	0	18.44	18.39	18.49	18.40	18.34			
15	64QAM	1	0	18.61	18.32	18.26	18.36	18.17			
15	64QAM	1	37	18.62	18.57	18.61	18.54	18.51			
15	64QAM	1	74	18.55	18.37	18.44	18.29	18.51	19		
15	64QAM	36	0	18.50	18.30	18.38	18.37	18.30			
15	64QAM	36	20	18.49	18.46	18.56	18.46	18.49			
15	64QAM	36	39	18.48	18.38	18.52	18.35	18.48			
15	64QAM	75	0	18.44	18.41	18.48	18.41	18.33			
Channel				39700	40160	40620	41080	41540			Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	18.18	17.80	17.88	17.78	17.79	19		
10	QPSK	1	25	18.07	18.01	18.12	18.09	18.05			
10	QPSK	1	49	18.15	17.84	17.88	17.91	17.88			
10	QPSK	25	0	18.26	18.12	18.19	18.09	18.14			
10	QPSK	25	12	18.28	18.27	18.33	18.17	18.31	19		
10	QPSK	25	25	18.25	18.19	18.22	18.16	18.17			
10	QPSK	50	0	18.21	18.19	18.27	18.11	18.20			
10	16QAM	1	0	18.53	18.17	18.25	18.17	18.20			
10	16QAM	1	25	18.44	18.41	18.50	18.39	18.43	19		
10	16QAM	1	49	18.46	18.16	18.25	18.17	18.19			
10	16QAM	25	12	18.37	18.37	18.39	18.27	18.36			
10	16QAM	25	25	18.35	18.24	18.28	18.22	18.22			
10	16QAM	50	0	18.26	18.26	18.35	18.15	18.25	19		
10	16QAM	50	0	18.26	18.26	18.35	18.15	18.25			
10	64QAM	1	0	18.48	18.21	18.12	18.10	18.05			
10	64QAM	1	25	18.45	18.55	18.49	18.45	18.39			
10	64QAM	1	49	18.37	18.20	18.18	18.12	18.12	19		
10	64QAM	25	0	18.39	18.22	18.26	18.19	18.22			
10	64QAM	25	12	18.44	18.42	18.45	18.31	18.41			
10	64QAM	25	25	18.40	18.29	18.34	18.25	18.27			
10	64QAM	50	0	18.26	18.24	18.31	18.14	18.24			
Channel				39675	40146	40620	41093	41565			Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.39	2687.5			
5	QPSK	1	0	18.17	18.03	18.10	18.07	18.09	19		
5	QPSK	1	12	18.09	18.05	18.14	18.11	18.10			
5	QPSK	1	24	18.10	18.04	18.10	18.11	18.06			
5	QPSK	12	0	18.31	18.20	18.25	18.19	18.28			
5	QPSK	12	7	18.30	18.29	18.35	18.20	18.28	19		
5	QPSK	12	13	18.30	18.25	18.28	18.23	18.26			
5	QPSK	25	0	18.24	18.24	18.29	18.11	18.25			
5	16QAM	1	0	18.46	18.33	18.39	18.21	18.42			
5	16QAM	1	12	18.38	18.38	18.43	18.22	18.36	19		
5	16QAM	1	24	18.43	18.40	18.44	18.28	18.34			
5	16QAM	12	0	18.33	18.26	18.28	18.20	18.32			
5	16QAM	12	7	18.38	18.30	18.35	18.24	18.32			
5	16QAM	12	13	18.33	18.31	18.38	18.27	18.28	19		
5	16QAM	25	0	18.35	18.34	18.36	18.22	18.32			
5	64QAM	1	0	18.37	18.29	18.30	18.25	18.31			
5	64QAM	1	12	18.37	18.40	18.37	18.32	18.30			
5	64QAM	1	24	18.36	18.34	18.38	18.28	18.25	19		
5	64QAM	12	0	18.38	18.28	18.33	18.26	18.31			
5	64QAM	12	7	18.40	18.36	18.40	18.29	18.34			
5	64QAM	12	13	18.33	18.35	18.37	18.30	18.29			
5	64QAM	25	0	18.33	18.33	18.40	18.22	18.31			



Band 38_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				37650	38000	38150	
Frequency (MHz)				2500	2505	2510	
20	QPSK	1	0	19.41	19.40	19.39	20.5
20	QPSK	1	49	19.40	19.38	19.28	
20	QPSK	1	99	19.32	19.24	19.19	
20	QPSK	50	0	19.27	19.25	19.21	
20	QPSK	50	24	19.42	19.37	19.28	
20	QPSK	50	50	19.29	19.25	19.22	20.5
20	QPSK	100	0	19.32	19.28	19.17	
20	16QAM	1	0	19.57	19.59	19.58	
20	16QAM	1	49	19.51	19.44	19.43	
20	16QAM	1	99	19.47	19.38	19.36	
20	16QAM	50	0	19.30	19.28	19.25	20.5
20	16QAM	50	24	19.47	19.44	19.32	
20	16QAM	50	50	19.34	19.31	19.23	
20	16QAM	100	0	19.34	19.34	19.20	
20	64QAM	1	0	19.15	19.16	19.11	
20	64QAM	1	49	19.14	19.04	19.05	20.5
20	64QAM	1	99	19.11	19.00	19.00	
20	64QAM	50	0	19.29	19.27	19.23	
20	64QAM	50	24	19.46	19.40	19.29	
20	64QAM	50	50	19.32	19.26	19.21	
20	64QAM	100	0	19.32	19.30	19.19	
Channel				37625	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.35	19.36	19.31	20.5
15	QPSK	1	37	19.32	19.30	19.24	
15	QPSK	1	74	19.25	19.25	19.19	
15	QPSK	36	0	19.28	19.28	19.22	
15	QPSK	36	20	19.43	19.41	19.25	
15	QPSK	36	39	19.33	19.27	19.21	20.5
15	QPSK	75	0	19.37	19.35	19.18	
15	16QAM	1	0	19.55	19.55	19.51	
15	16QAM	1	37	19.41	19.42	19.40	
15	16QAM	1	74	19.49	19.41	19.35	
15	16QAM	36	0	19.30	19.24	19.18	20.5
15	16QAM	36	20	19.43	19.38	19.24	
15	16QAM	36	39	19.33	19.27	19.21	
15	16QAM	75	0	19.39	19.38	19.23	
15	64QAM	1	0	19.07	19.09	19.01	
15	64QAM	1	37	19.08	19.06	19.01	20.5
15	64QAM	1	74	19.07	19.00	18.93	
15	64QAM	36	0	19.32	19.29	19.23	
15	64QAM	36	20	19.42	19.40	19.24	
15	64QAM	36	39	19.33	19.29	19.22	
15	64QAM	75	0	19.37	19.34	19.20	
Channel				37600	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	19.39	19.38	19.37	20.5
10	QPSK	1	25	19.31	19.30	19.19	
10	QPSK	1	49	19.23	19.15	19.18	
10	QPSK	25	0	19.22	19.25	19.20	
10	QPSK	25	12	19.36	19.32	19.28	
10	QPSK	25	25	19.22	19.20	19.15	20.5
10	QPSK	50	0	19.23	19.25	19.12	
10	16QAM	1	0	19.54	19.56	19.56	
10	16QAM	1	25	19.43	19.40	19.35	
10	16QAM	1	49	19.45	19.38	19.28	
10	16QAM	25	0	19.25	19.18	19.25	20.5
10	16QAM	25	12	19.45	19.41	19.24	
10	16QAM	25	25	19.30	19.21	19.23	
10	16QAM	50	0	19.26	19.25	19.19	
10	64QAM	1	0	19.07	19.09	19.10	
10	64QAM	1	25	19.12	19.02	18.95	20.5
10	64QAM	1	49	19.05	18.95	18.90	
10	64QAM	25	0	19.24	19.17	19.21	
10	64QAM	25	12	19.40	19.38	19.28	
10	64QAM	25	25	19.29	19.22	19.14	
10	64QAM	50	0	19.27	19.22	19.15	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.01	18.99	18.89	20.5
5	QPSK	1	12	19.05	19.08	18.99	
5	QPSK	1	24	19.07	19.02	18.93	
5	QPSK	12	0	19.16	19.08	19.01	
5	QPSK	12	7	19.19	19.21	19.11	
5	QPSK	12	13	19.16	19.14	19.06	20.5
5	QPSK	25	0	19.15	19.14	19.05	
5	16QAM	1	0	19.14	19.10	19.00	
5	16QAM	1	12	19.30	19.28	19.20	
5	16QAM	1	24	19.22	19.16	19.10	
5	16QAM	12	0	19.12	19.05	18.93	20.5
5	16QAM	12	7	19.17	19.14	19.06	
5	16QAM	12	13	19.16	19.13	19.01	
5	16QAM	25	0	19.20	19.15	19.05	
5	64QAM	1	0	18.82	18.77	18.66	
5	64QAM	1	12	18.91	18.85	18.78	20.5
5	64QAM	1	24	18.87	18.82	18.71	
5	64QAM	12	0	19.18	19.16	19.05	
5	64QAM	12	7	19.30	19.24	19.18	
5	64QAM	12	13	19.21	19.23	19.10	
5	64QAM	25	0	19.21	19.24	19.14	



Band 41_Ant 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)				2500	2543.5	2587	2630.5	2674	
20	QPSK	1	0	18.40	18.30	18.07	18.10	17.92	19.5
20	QPSK	1	49	18.41	18.34	18.45	18.38	18.36	
20	QPSK	1	99	18.34	18.34	18.14	17.95	18.29	
20	QPSK	50	0	18.48	18.36	18.32	18.29	18.24	
20	QPSK	50	24	18.48	18.45	18.53	18.37	18.38	
20	QPSK	50	50	18.41	18.45	18.45	18.31	18.47	19.5
20	QPSK	100	0	18.38	18.33	18.42	18.25	18.29	
20	16QAM	1	0	18.61	18.37	18.21	18.23	18.07	
20	16QAM	1	49	18.50	18.33	18.56	18.47	18.46	
20	16QAM	1	99	18.47	18.41	18.30	18.05	18.41	
20	16QAM	50	0	18.51	18.41	18.37	18.35	18.27	19.5
20	16QAM	50	24	18.52	18.51	18.54	18.41	18.42	
20	16QAM	50	50	18.49	18.52	18.48	18.34	18.46	
20	16QAM	100	0	18.41	18.38	18.46	18.29	18.33	
20	64QAM	1	0	18.31	18.43	17.88	17.92	17.73	
20	64QAM	1	49	18.21	18.26	18.34	18.19	18.25	19.5
20	64QAM	1	99	18.26	18.41	18.04	17.84	18.21	
20	64QAM	50	0	18.52	18.43	18.37	18.34	18.28	
20	64QAM	50	24	18.49	18.49	18.56	18.40	18.44	
20	64QAM	50	50	18.45	18.59	18.50	18.33	18.50	
20	64QAM	100	0	18.42	18.39	18.46	18.31	18.34	19.5
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	18.39	18.13	18.19	18.10	18.05	19.5
15	QPSK	1	37	18.38	18.37	18.37	18.19	18.31	
15	QPSK	1	74	18.33	18.15	18.25	18.03	18.30	
15	QPSK	36	0	18.51	18.29	18.35	18.32	18.27	
15	QPSK	36	20	18.47	18.43	18.55	18.42	18.47	
15	QPSK	36	39	18.44	18.34	18.47	18.34	18.46	19.5
15	QPSK	75	0	18.42	18.37	18.48	18.37	18.34	
15	16QAM	1	0	18.59	18.19	18.37	18.35	18.28	
15	16QAM	1	37	18.47	18.30	18.56	18.56	18.51	
15	16QAM	1	74	18.55	18.23	18.45	18.29	18.51	
15	16QAM	36	0	18.47	18.31	18.34	18.31	18.27	19.5
15	16QAM	36	20	18.47	18.45	18.53	18.44	18.45	
15	16QAM	36	39	18.48	18.35	18.50	18.34	18.45	
15	16QAM	75	0	18.46	18.44	18.51	18.40	18.38	
15	64QAM	1	0	18.37	18.10	18.06	18.16	17.92	
15	64QAM	1	37	18.28	18.31	18.35	18.28	18.29	19.5
15	64QAM	1	74	18.30	18.14	18.20	18.09	18.29	
15	64QAM	36	0	18.51	18.36	18.40	18.36	18.32	
15	64QAM	36	20	18.54	18.50	18.59	18.47	18.51	
15	64QAM	36	39	18.49	18.40	18.53	18.40	18.51	
15	64QAM	75	0	18.46	18.42	18.50	18.43	18.37	19.5
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	18.34	18.03	18.10	18.09	17.95	19.5
10	QPSK	1	25	18.30	18.36	18.33	18.12	18.31	
10	QPSK	1	49	18.33	18.12	18.20	18.01	18.25	
10	QPSK	25	0	18.51	18.19	18.35	18.30	18.27	
10	QPSK	25	12	18.37	18.35	18.54	18.38	18.38	
10	QPSK	25	25	18.36	18.25	18.37	18.27	18.39	19.5
10	QPSK	50	0	18.39	18.29	18.45	18.32	18.26	
10	16QAM	1	0	18.54	18.12	18.32	18.33	18.18	
10	16QAM	1	25	18.39	18.28	18.52	18.55	18.44	
10	16QAM	1	49	18.53	18.14	18.35	18.28	18.49	
10	16QAM	25	0	18.37	18.24	18.28	18.31	18.17	19.5
10	16QAM	25	12	18.44	18.38	18.43	18.42	18.39	
10	16QAM	25	25	18.47	18.33	18.50	18.33	18.37	
10	16QAM	50	0	18.46	18.40	18.42	18.30	18.28	
10	64QAM	1	0	18.28	18.09	17.99	18.08	17.85	
10	64QAM	1	25	18.25	18.25	18.28	18.20	18.19	19.5
10	64QAM	1	49	18.24	18.09	18.11	18.09	18.24	
10	64QAM	25	0	18.47	18.28	18.37	18.31	18.32	
10	64QAM	25	12	18.46	18.50	18.51	18.47	18.49	
10	64QAM	25	25	18.46	18.36	18.48	18.36	18.45	
10	64QAM	50	0	18.41	18.34	18.45	18.35	18.37	19.5
Channel				39675	40146	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.38	2687.5	
5	QPSK	1	0	18.28	18.09	18.19	18.22	18.23	19.5
5	QPSK	1	12	18.14	18.12	18.22	18.20	18.20	
5	QPSK	1	24	18.19	18.10	18.17	18.21	18.15	
5	QPSK	12	0	18.34	18.28	18.28	18.19	18.28	
5	QPSK	12	7	18.31	18.31	18.35	18.22	18.31	
5	QPSK	12	13	18.32	18.30	18.30	18.24	18.25	19.5
5	QPSK	25	0	18.28	18.29	18.33	18.16	18.28	
5	16QAM	1	0	18.38	18.30	18.30	18.26	18.31	
5	16QAM	1	12	18.38	18.36	18.41	18.31	18.39	
5	16QAM	1	24	18.40	18.36	18.38	18.32	18.31	
5	16QAM	12	0	18.32	18.24	18.26	18.17	18.26	19.5
5	16QAM	12	7	18.34	18.32	18.34	18.21	18.32	
5	16QAM	12	13	18.29	18.28	18.32	18.23	18.22	
5	16QAM	25	0	18.33	18.36	18.35	18.23	18.33	
5	64QAM	1	0	18.15	18.03	18.09	18.20	18.09	
5	64QAM	1	12	18.13	18.25	18.17	18.09	18.11	19.5
5	64QAM	1	24	18.12	18.23	18.14	18.17	18.12	
5	64QAM	12	0	18.35	18.30	18.32	18.27	18.34	
5	64QAM	12	7	18.38	18.37	18.40	18.27	18.35	
5	64QAM	12	13	18.36	18.35	18.39	18.29	18.33	
5	64QAM	25	0	18.38	18.34	18.38	18.25	18.32	



Band 41_Ant 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	18.29	18.26	17.91	17.99	17.81	19.5		
20	QPSK	1	49	18.23	18.22	18.30	18.19	18.23			
20	QPSK	1	99	18.22	18.24	18.02	17.82	18.17			
20	QPSK	50	0	18.45	18.32	18.30	18.29	18.22			
20	QPSK	50	24	18.45	18.43	18.52	18.36	18.36	19.5		
20	QPSK	50	50	18.44	18.45	18.43	18.28	18.45			
20	QPSK	100	0	18.35	18.30	18.41	18.24	18.29			
20	16QAM	1	0	18.74	18.68	18.27	18.39	18.14	19.5		
20	16QAM	1	49	18.62	18.63	18.68	18.60	18.64			
20	16QAM	1	99	18.64	18.71	18.40	18.21	18.52			
20	16QAM	50	0	18.50	18.42	18.35	18.34	18.27			
20	16QAM	50	24	18.49	18.50	18.55	18.39	18.41	19.5		
20	16QAM	50	50	18.44	18.48	18.47	18.33	18.49			
20	16QAM	100	0	18.39	18.37	18.46	18.29	18.35			
20	64QAM	1	0	18.62	18.58	18.13	18.18	18.00	19.5		
20	64QAM	1	49	18.47	18.47	18.55	18.44	18.49			
20	64QAM	1	99	18.55	18.60	18.27	18.05	18.43			
20	64QAM	50	0	18.50	18.41	18.36	18.34	18.25			
20	64QAM	50	24	18.47	18.47	18.57	18.40	18.42	19.5		
20	64QAM	50	50	18.43	18.47	18.50	18.31	18.49			
20	64QAM	100	0	18.40	18.39	18.45	18.30	18.33			
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	18.33	18.06	18.12	18.05	17.97	19.5		
15	QPSK	1	37	18.27	18.30	18.33	18.17	18.27			
15	QPSK	1	74	18.27	18.05	18.18	17.97	18.24			
15	QPSK	36	0	18.49	18.26	18.33	18.33	18.24			
15	QPSK	36	20	18.44	18.38	18.50	18.44	18.47	19.5		
15	QPSK	36	39	18.43	18.31	18.46	18.32	18.42			
15	QPSK	75	0	18.41	18.32	18.43	18.35	18.31			
15	16QAM	1	0	18.67	18.42	18.43	18.54	18.37			
15	16QAM	1	37	18.63	18.54	18.69	18.70	18.62	19.5		
15	16QAM	1	74	18.66	18.36	18.57	18.45	18.62			
15	16QAM	36	0	18.48	18.29	18.35	18.30	18.25			
15	16QAM	36	20	18.46	18.43	18.50	18.40	18.46			
15	16QAM	36	39	18.45	18.36	18.47	18.33	18.43	19.5		
15	16QAM	75	0	18.44	18.39	18.49	18.40	18.34			
15	64QAM	1	0	18.61	18.32	18.26	18.36	18.17			
15	64QAM	1	37	18.62	18.57	18.61	18.54	18.51			
15	64QAM	1	74	18.55	18.37	18.44	18.29	18.51	19.5		
15	64QAM	36	0	18.50	18.30	18.38	18.37	18.30			
15	64QAM	36	20	18.49	18.46	18.56	18.46	18.49			
15	64QAM	36	39	18.48	18.38	18.52	18.35	18.48			
15	64QAM	75	0	18.44	18.41	18.48	18.41	18.33	Tune-up limit (dBm)		
Channel				39700	40160	40620	41080	41540			
Frequency (MHz)				2501	2547	2593	2639	2685			
10	QPSK	1	0	18.18	17.80	17.88	17.78	17.79	19.5		
10	QPSK	1	25	18.07	18.01	18.12	18.09	18.05			
10	QPSK	1	49	18.15	17.84	17.88	17.91	17.88			
10	QPSK	25	0	18.26	18.12	18.19	18.09	18.14			
10	QPSK	25	12	18.28	18.27	18.33	18.17	18.31	19.5		
10	QPSK	25	25	18.25	18.19	18.22	18.16	18.17			
10	QPSK	50	0	18.21	18.19	18.27	18.11	18.20			
10	16QAM	1	0	18.53	18.17	18.25	18.17	18.20			
10	16QAM	1	25	18.44	18.41	18.50	18.39	18.43	19.5		
10	16QAM	1	49	18.46	18.16	18.25	18.17	18.19			
10	16QAM	25	12	18.37	18.37	18.39	18.27	18.36			
10	16QAM	25	25	18.35	18.24	18.28	18.22	18.22			
10	16QAM	50	0	18.26	18.26	18.35	18.15	18.25	19.5		
10	64QAM	1	0	18.48	18.21	18.12	18.10	18.05			
10	64QAM	1	25	18.45	18.55	18.49	18.45	18.39			
10	64QAM	1	49	18.37	18.20	18.18	18.12	18.12			
10	64QAM	25	0	18.39	18.22	18.26	18.19	18.22	19.5		
10	64QAM	25	12	18.44	18.42	18.45	18.31	18.41			
10	64QAM	25	25	18.40	18.29	18.34	18.25	18.27			
10	64QAM	50	0	18.26	18.24	18.31	18.14	18.24		Tune-up limit (dBm)	
Channel				39675	40146	40620	41093	41565			
Frequency (MHz)				2498.5	2545.8	2593	2640.38	2687.5			
5	QPSK	1	0	18.17	18.03	18.10	18.07	18.09	19.5		
5	QPSK	1	12	18.09	18.05	18.14	18.11	18.10			
5	QPSK	1	24	18.10	18.04	18.10	18.11	18.06			
5	QPSK	12	0	18.31	18.20	18.25	18.19	18.28			
5	QPSK	12	7	18.30	18.29	18.35	18.20	18.28	19.5		
5	QPSK	12	13	18.30	18.25	18.28	18.23	18.26			
5	QPSK	25	0	18.24	18.24	18.29	18.11	18.25			
5	16QAM	1	0	18.46	18.33	18.39	18.21	18.42			
5	16QAM	1	12	18.38	18.38	18.43	18.22	18.36	19.5		
5	16QAM	1	24	18.43	18.40	18.44	18.28	18.34			
5	16QAM	12	0	18.33	18.26	18.28	18.20	18.32			
5	16QAM	12	7	18.38	18.30	18.35	18.24	18.32			
5	16QAM	12	13	18.33	18.31	18.38	18.27	18.28	19.5		
5	16QAM	25	0	18.35	18.34	18.36	18.22	18.32			
5	64QAM	1	0	18.37	18.29	18.30	18.25	18.31			
5	64QAM	1	12	18.37	18.40	18.37	18.32	18.30			
5	64QAM	1	24	18.36	18.34	18.38	18.28	18.25	19.5		
5	64QAM	12	0	18.38	18.28	18.33	18.26	18.31			
5	64QAM	12	7	18.40	18.36	18.40	18.29	18.34			
5	64QAM	12	13	18.33	18.35	18.37	18.30	18.29			
5	64QAM	25	0	18.33	18.33	18.40	18.22	18.31	Tune-up limit (dBm)		

1. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
2. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
3. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
4. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
5. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)
6. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
7. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
8. When SAR testing for 802.11ax is required
 - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
 - b. Otherwise, consider the fully allocated channel for SAR testing
 - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	16.40	17.00	16.30	17.00	19.36	20.00	100.00
		6	2437	16.80	17.00	16.50	17.00	19.86	20.00	
		11	2462	16.60	17.00	16.40	17.00	19.76	20.00	
	802.11g 6Mbps	1	2412	16.20	16.50	16.00	16.50	19.11	19.50	99.25
		6	2437	16.10	16.50	15.90	16.50	19.21	19.50	
		11	2462	16.00	16.50	16.20	16.50	19.07	19.50	
	802.11n-HT20 MCS0	1	2412	16.10	16.50	16.20	16.50	19.16	19.50	99.24
		6	2437	16.00	16.50	16.10	16.50	19.11	19.50	
		11	2462	16.00	16.50	15.90	16.50	18.91	19.50	
	802.11ac-VHT20 MCS0	1	2412	16.20	16.50	16.20	16.50	19.26	19.50	99.24
		6	2437	16.00	16.50	16.00	16.50	19.21	19.50	
		11	2462	16.00	16.50	16.00	16.50	19.12	19.50	
	802.11ax-HE20 MCS0	1	2412	16.20	16.50	16.20	16.50	19.26	19.50	98.69
		6	2437	16.00	16.50	16.00	16.50	19.21	19.50	
		11	2462	16.00	16.50	16.00	16.50	19.12	19.50	

Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	11.80	12.00	11.50	12.00	14.82	15.00	99.00
		40	5200	11.70	12.00	11.50	12.00	14.87	15.00	
		44	5220	11.60	12.00	11.50	12.00	14.77	15.00	
		48	5240	11.70	12.00	11.80	12.00	14.72	15.00	
	802.11n-HT20 MCS0	36	5180	11.40	12.00	11.30	12.00	14.46	15.00	98.99
		40	5200	11.40	12.00	11.20	12.00	14.42	15.00	
		44	5220	11.40	12.00	11.20	12.00	14.42	15.00	
		48	5240	11.20	12.00	11.10	12.00	14.69	15.00	
	802.11n-HT40 MCS0	38	5190	10.10	11.00	10.30	11.00	13.42	14.00	98.47
		46	5230	11.90	13.00	11.80	13.00	14.97	16.00	
	802.11ac-VHT20 MCS0	36	5180	11.30	12.00	11.30	12.00	14.36	15.00	98.99
		40	5200	11.30	12.00	11.30	12.00	14.36	15.00	
		44	5220	11.40	12.00	11.30	12.00	14.42	15.00	
		48	5240	11.20	12.00	11.20	12.00	14.44	15.00	
	802.11ac-VHT40 MCS0	38	5190	10.50	11.00	10.30	11.00	13.44	14.00	98.48
		46	5230	11.70	13.00	11.70	13.00	14.97	16.00	
	802.11ac-VHT80 MCS0	42	5210	9.70	10.00	9.70	10.00	12.78	13.00	96.28
	802.11ax-HE20 MCS0	36	5180	11.30	12.00	11.30	12.00	14.36	15.00	98.69
		40	5200	11.30	12.00	11.30	12.00	14.36	15.00	
		44	5220	11.40	12.00	11.30	12.00	14.42	15.00	
		48	5240	11.20	12.00	11.20	12.00	14.44	15.00	
	802.11ax-HE40 MCS0	38	5190	10.50	11.00	10.30	11.00	13.44	14.00	98.12
		46	5230	11.70	13.00	11.70	13.00	14.97	16.00	
	802.11ax-HE80 MCS0	42	5210	9.70	10.00	9.70	10.00	12.78	13.00	95.73



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	11.60	12.00	11.70	12.00	14.67	15.00	99.00
		56	5280	11.50	12.00	11.70	12.00	14.62	15.00	
		60	5300	11.60	12.00	11.60	12.00	14.74	15.00	
		64	5320	11.70	12.00	11.70	12.00	14.84	15.00	
	802.11n-HT20 MCS0	52	5260	11.70	12.50	11.70	12.50	14.87	15.50	98.99
		56	5280	11.60	12.50	11.60	12.50	14.77	15.50	
		60	5300	11.50	12.50	12.00	12.50	15.07	15.50	
		64	5320	11.50	12.50	12.00	12.50	15.15	15.50	
	802.11n-HT40 MCS0	54	5270	11.80	13.00	11.80	13.00	14.87	16.00	98.47
		62	5310	10.50	11.00	10.30	11.00	13.60	14.00	
	802.11ac-VHT20 MCS0	52	5260	11.70	12.50	11.60	12.50	15.01	15.50	98.99
		56	5280	11.50	12.50	11.70	12.50	14.96	15.50	
		60	5300	12.00	12.50	11.90	12.50	15.12	15.50	
		64	5320	12.00	12.50	12.10	12.50	15.22	15.50	
	802.11ac-VHT40 MCS0	54	5270	11.80	13.00	11.70	13.00	15.01	16.00	98.48
		62	5310	10.40	11.00	10.40	11.00	13.64	14.00	
	802.11ac-VHT80 MCS0	58	5290	8.80	9.50	8.50	9.50	11.91	12.50	96.28
	802.11ax-HE20 MCS0	52	5260	11.70	12.50	11.60	12.50	15.01	15.50	98.69
		56	5280	11.50	12.50	11.70	12.50	14.96	15.50	
		60	5300	12.00	12.50	11.90	12.50	15.12	15.50	
		64	5320	12.00	12.50	12.10	12.50	15.22	15.50	
	802.11ax-HE40 MCS0	54	5270	11.80	13.00	11.70	13.00	15.01	16.00	98.12
		62	5310	10.40	11.00	10.40	11.00	13.64	14.00	
	802.11ax-HE80 MCS0	58	5290	8.80	9.50	8.50	9.50	11.91	12.50	95.73



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	100	5500	11.90	12.50	11.80	12.50	15.14	15.50	99.00
		116	5580	11.80	12.50	11.80	12.50	15.04	15.50	
		124	5620	11.80	12.50	11.60	12.50	14.94	15.50	
		132	5660	11.70	12.50	11.70	12.50	14.99	15.50	
		144	5720	11.80	12.50	11.80	12.50	14.88	15.50	
	802.11n-HT20 MCS0	100	5500	12.10	12.50	11.90	12.50	15.21	15.50	98.99
		116	5580	11.90	12.50	11.70	12.50	14.91	15.50	
		124	5620	11.80	12.50	11.70	12.50	14.81	15.50	
		132	5660	11.80	12.50	11.70	12.50	14.76	15.50	
		144	5720	11.90	12.50	11.70	12.50	15.04	15.50	
	802.11n-HT40 MCS0	102	5510	11.50	12.00	10.40	12.00	14.54	15.00	98.47
		110	5550	11.90	13.00	11.90	13.00	14.41	16.00	
		126	5630	11.70	13.00	11.70	13.00	14.36	16.00	
		134	5670	11.70	13.00	11.70	13.00	14.31	16.00	
		142	5710	11.80	13.00	11.80	13.00	14.31	16.00	
	802.11ac-VHT20 MCS0	100	5500	12.30	12.50	12.00	12.50	15.11	15.50	98.99
		116	5580	12.00	12.50	11.90	12.50	15.07	15.50	
		124	5620	11.70	12.50	11.20	12.50	15.02	15.50	
		132	5660	11.80	12.50	11.70	12.50	14.92	15.50	
		144	5720	11.80	12.50	11.70	12.50	14.89	15.50	
	802.11ac-VHT40 MCS0	102	5510	11.60	12.00	11.40	12.00	14.61	15.00	98.48
		110	5550	11.90	13.00	11.80	13.00	14.56	16.00	
		126	5630	12.00	13.00	11.70	13.00	14.41	16.00	
		134	5670	11.80	13.00	11.80	13.00	14.37	16.00	
		142	5710	11.90	13.00	11.70	13.00	14.37	16.00	
	802.11ac-VHT80 MCS0	106	5530	9.70	10.50	9.70	10.50	12.97	13.50	96.28
		122	5610	11.70	13.00	11.70	13.00	14.82	16.00	
		138	5690	11.80	13.00	11.60	13.00	14.77	16.00	
	802.11ax-HE20 MCS0	100	5500	12.30	12.50	12.00	12.50	15.11	15.50	98.69
		116	5580	12.00	12.50	11.90	12.50	15.07	15.50	
		124	5620	11.70	12.50	11.20	12.50	15.02	15.50	
		132	5660	11.80	12.50	11.70	12.50	14.92	15.50	
		144	5720	11.80	12.50	11.70	12.50	14.89	15.50	
	802.11ax-HE40 MCS0	102	5510	11.60	12.00	11.40	12.00	14.61	15.00	98.12
110		5550	11.90	13.00	11.80	13.00	14.56	16.00		
126		5630	12.00	13.00	11.70	13.00	14.41	16.00		
134		5670	11.80	13.00	11.80	13.00	14.37	16.00		
142		5710	11.90	13.00	11.70	13.00	14.37	16.00		
802.11ax-HE80 MCS0	106	5530	9.70	10.50	9.70	10.50	12.97	13.50	95.73	
	122	5610	11.70	13.00	11.70	13.00	14.82	16.00		
	138	5690	11.80	13.00	11.60	13.00	14.77	16.00		



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	12.00	13.00	11.90	13.00	15.10	16.00	99.00
		157	5785	11.90	13.00	11.80	13.00	15.14	16.00	
		165	5825	11.90	13.00	12.00	13.00	15.18	16.00	
	802.11n-HT20 MCS0	149	5745	11.80	13.00	11.70	13.00	14.98	16.00	98.99
		157	5785	11.80	13.00	11.90	13.00	15.08	16.00	
		165	5825	11.70	13.00	11.80	13.00	14.98	16.00	
	802.11n-HT40 MCS0	151	5755	11.80	13.00	11.80	13.00	15.04	16.00	98.47
		159	5795	11.80	13.00	12.00	13.00	15.01	16.00	
	802.11ac-VHT20 MCS0	149	5745	11.80	13.00	11.70	13.00	15.04	16.00	98.99
		157	5785	11.80	13.00	12.00	13.00	15.12	16.00	
		165	5825	11.70	13.00	11.80	13.00	15.04	16.00	
	802.11ac-VHT40 MCS0	151	5755	11.80	13.00	11.80	13.00	15.08	16.00	98.48
		159	5795	11.80	13.00	12.00	13.00	15.07	16.00	
	802.11ac-VHT80 MCS0	155	5775	11.70	13.00	12.00	13.00	15.04	16.00	96.28
	802.11ax-HE20 MCS0	149	5745	11.90	13.00	11.90	13.00	15.10	16.00	98.69
		157	5785	11.90	13.00	11.80	13.00	15.14	16.00	
		165	5825	11.90	13.00	11.70	13.00	15.18	16.00	
	802.11ax-HE40 MCS0	151	5755	11.80	13.00	12.10	13.00	15.10	16.00	98.12
		159	5795	12.10	13.00	11.90	13.00	15.22	16.00	
	802.11ax-HE80 MCS0	155	5775	11.80	13.00	12.00	13.00	15.16	16.00	95.73

Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	14.40	15.00	14.30	15.00	17.51	18.00	100.00
		6	2437	14.80	15.00	14.40	15.00	17.76	18.00	
		11	2462	14.60	15.00	14.50	15.00	17.71	18.00	
	802.11g 6Mbps	1	2412	14.10	14.50	14.00	14.50	17.06	17.50	99.25
		6	2437	14.20	14.50	13.90	14.50	17.11	17.50	
		11	2462	13.90	14.50	13.90	14.50	17.11	17.50	
	802.11n-HT20 MCS0	1	2412	14.10	14.50	13.90	14.50	17.21	17.50	99.24
		6	2437	14.10	14.50	13.90	14.50	17.11	17.50	
		11	2462	13.80	14.50	14.00	14.50	16.97	17.50	
	802.11ac-VHT20 MCS0	1	2412	14.00	14.50	13.80	14.50	17.11	17.50	99.24
		6	2437	14.00	14.50	13.80	14.50	17.01	17.50	
		11	2462	13.70	14.50	13.90	14.50	16.87	17.50	
	802.11ax-HE20 MCS0	1	2412	14.00	14.50	13.80	14.50	17.11	17.50	98.69
		6	2437	14.00	14.50	13.80	14.50	17.01	17.50	
		11	2462	13.70	14.50	13.90	14.50	16.87	17.50	

Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	9.80	10.00	9.40	10.00	12.78	13.00	99.00
		40	5200	9.60	10.00	9.30	10.00	12.63	13.00	
		44	5220	9.60	10.00	9.50	10.00	12.68	13.00	
		48	5240	9.70	10.00	9.80	10.00	12.84	13.00	
	802.11n-HT20 MCS0	36	5180	9.30	10.00	9.20	10.00	12.26	13.00	98.99
		40	5200	9.40	10.00	9.10	10.00	12.32	13.00	
		44	5220	9.30	10.00	9.30	10.00	12.27	13.00	
		48	5240	9.20	10.00	9.00	10.00	12.37	13.00	
	802.11n-HT40 MCS0	38	5190	8.40	9.00	8.10	9.00	11.42	12.00	98.47
		46	5230	9.70	11.00	9.70	11.00	12.91	14.00	
	802.11ac-VHT20 MCS0	36	5180	9.20	10.00	9.10	10.00	12.16	13.00	98.99
		40	5200	9.30	10.00	9.20	10.00	12.38	13.00	
		44	5220	9.20	10.00	9.20	10.00	12.17	13.00	
		48	5240	9.10	10.00	8.90	10.00	12.27	13.00	
	802.11ac-VHT40 MCS0	38	5190	8.30	9.00	8.00	9.00	11.32	12.00	98.48
		46	5230	9.60	11.00	9.60	11.00	12.81	14.00	
	802.11ac-VHT80 MCS0	42	5210	7.70	8.00	7.70	8.00	10.78	11.00	96.28
	802.11ax-HE20 MCS0	36	5180	9.20	10.00	9.10	10.00	12.16	13.00	98.69
		40	5200	9.30	10.00	9.20	10.00	12.38	13.00	
		44	5220	9.20	10.00	9.20	10.00	12.17	13.00	
		48	5240	9.10	10.00	8.90	10.00	12.27	13.00	
	802.11ax-HE40 MCS0	38	5190	8.30	9.00	8.00	9.00	11.32	12.00	98.12
		46	5230	9.60	11.00	9.60	11.00	12.81	14.00	
	802.11ax-HE80 MCS0	42	5210	7.70	8.00	7.70	8.00	10.78	11.00	95.73



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	9.60	10.00	9.80	10.00	12.72	13.00	99.00
		56	5280	9.50	10.00	9.60	10.00	12.62	13.00	
		60	5300	9.50	10.00	9.60	10.00	12.94	13.00	
		64	5320	9.70	10.00	9.60	10.00	12.88	13.00	
	802.11n-HT20 MCS0	52	5260	9.60	10.50	9.70	10.50	12.82	13.50	98.99
		56	5280	9.70	10.50	9.60	10.50	12.95	13.50	
		60	5300	9.80	10.50	9.90	10.50	12.97	13.50	
		64	5320	10.00	10.50	9.80	10.50	13.05	13.50	
	802.11n-HT40 MCS0	54	5270	9.80	11.00	9.80	11.00	12.87	14.00	98.47
		62	5310	8.60	9.00	8.30	9.00	11.54	12.00	
	802.11ac-VHT20 MCS0	52	5260	9.50	10.50	9.60	10.50	12.72	13.50	98.99
		56	5280	9.60	10.50	9.50	10.50	13.05	13.50	
		60	5300	9.70	10.50	9.80	10.50	12.87	13.50	
		64	5320	9.90	10.50	9.70	10.50	12.95	13.50	
	802.11ac-VHT40 MCS0	54	5270	9.70	11.00	9.70	11.00	12.77	14.00	98.48
		62	5310	8.50	9.00	8.20	9.00	11.44	12.00	
	802.11ac-VHT80 MCS0	58	5290	6.70	7.50	6.60	7.50	9.81	10.50	96.28
	802.11ax-HE20 MCS0	52	5260	9.50	10.50	9.60	10.50	12.72	13.50	98.69
		56	5280	9.60	10.50	9.50	10.50	13.05	13.50	
		60	5300	9.70	10.50	9.80	10.50	12.87	13.50	
		64	5320	9.90	10.50	9.70	10.50	12.95	13.50	
	802.11ax-HE40 MCS0	54	5270	9.70	11.00	9.70	11.00	12.77	14.00	98.12
		62	5310	8.50	9.00	8.20	9.00	11.44	12.00	
	802.11ax-HE80 MCS0	58	5290	6.70	7.50	6.60	7.50	9.81	10.50	95.73



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	9.90	10.50	9.60	10.50	12.94	13.50	99.00
		116	5580	9.80	10.50	9.80	10.50	12.98	13.50	
		124	5620	9.70	10.50	9.70	10.50	12.98	13.50	
		132	5660	9.80	10.50	9.60	10.50	12.92	13.50	
		140	5700	9.80	10.50	9.60	10.50	12.88	13.50	
		144	5720	9.90	10.50	9.80	10.50	12.98	13.50	
	802.11n-HT20 MCS0	100	5500	10.00	10.50	9.90	10.50	13.22	13.50	98.99
		116	5580	10.00	10.50	9.80	10.50	12.87	13.50	
		124	5620	9.90	10.50	9.60	10.50	13.05	13.50	
		132	5660	9.70	10.50	9.50	10.50	12.94	13.50	
	802.11n-HT40 MCS0	102	5510	9.50	10.00	9.50	10.00	12.44	13.00	98.47
		110	5550	9.90	11.00	9.90	11.00	13.05	14.00	
		126	5630	9.70	11.00	9.60	11.00	12.98	14.00	
		134	5670	9.80	11.00	9.70	11.00	12.72	14.00	
	802.11ac-VHT20 MCS0	142	5710	9.70	11.00	9.80	11.00	12.84	14.00	98.99
		100	5500	9.90	10.50	9.80	10.50	13.12	13.50	
		116	5580	9.90	10.50	9.70	10.50	12.77	13.50	
		124	5620	9.70	10.50	9.80	10.50	12.98	13.50	
		132	5660	9.60	10.50	9.60	10.50	12.90	13.50	
	802.11ac-VHT40 MCS0	144	5720	9.80	10.50	9.60	10.50	12.80	13.50	98.48
		102	5510	9.40	10.00	9.40	10.00	12.34	13.00	
		110	5550	9.80	11.00	9.80	11.00	12.95	14.00	
		126	5630	9.70	11.00	9.70	11.00	12.98	14.00	
		134	5670	9.70	11.00	9.60	11.00	12.62	14.00	
	802.11ac-VHT80 MCS0	142	5710	9.60	11.00	9.70	11.00	12.74	14.00	96.28
		106	5530	7.70	8.50	7.60	8.50	10.91	11.50	
		122	5610	9.80	11.00	9.60	11.00	12.77	14.00	
	802.11ax-HE20 MCS0	138	5690	9.80	11.00	9.60	11.00	12.72	14.00	98.69
		100	5500	9.90	10.50	9.80	10.50	13.12	13.50	
		116	5580	9.90	10.50	9.70	10.50	12.77	13.50	
		124	5620	9.70	10.50	9.80	10.50	12.98	13.50	
		132	5660	9.60	10.50	9.60	10.50	12.90	13.50	
	802.11ax-HE40 MCS0	144	5720	9.80	10.50	9.60	10.50	12.80	13.50	98.12
		102	5510	9.40	10.00	9.40	10.00	12.34	13.00	
		110	5550	9.80	11.00	9.80	11.00	12.95	14.00	
		126	5630	9.70	11.00	9.70	11.00	12.98	14.00	
	802.11ax-HE80 MCS0	134	5670	9.70	11.00	9.60	11.00	12.62	14.00	95.73
		142	5710	9.60	11.00	9.70	11.00	12.74	14.00	
		106	5530	7.70	8.50	7.60	8.50	10.91	11.50	
		122	5610	9.80	11.00	9.60	11.00	12.77	14.00	
		138	5690	9.80	11.00	9.60	11.00	12.72	14.00	



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	9.90	11.00	9.80	11.00	13.04	14.00	99.00
		157	5785	9.80	11.00	9.70	11.00	13.14	14.00	
		165	5825	9.90	11.00	9.90	11.00	13.12	14.00	
	802.11n-HT20 MCS0	149	5745	9.70	11.00	9.80	11.00	12.94	14.00	98.99
		157	5785	9.70	11.00	9.90	11.00	13.00	14.00	
		165	5825	9.80	11.00	9.90	11.00	13.04	14.00	
	802.11n-HT40 MCS0	151	5755	9.70	11.00	9.80	11.00	12.94	14.00	98.47
		159	5795	9.80	11.00	9.90	11.00	13.01	14.00	
	802.11ac-VHT20 MCS0	149	5745	9.70	11.00	9.70	11.00	12.94	14.00	98.99
		157	5785	9.80	11.00	9.90	11.00	13.08	14.00	
		165	5825	9.80	11.00	9.80	11.00	12.98	14.00	
	802.11ac-VHT40 MCS0	151	5755	9.70	11.00	9.90	11.00	12.98	14.00	98.48
		159	5795	9.80	11.00	9.90	11.00	13.12	14.00	
	802.11ac-VHT80 MCS0	155	5775	9.60	11.00	9.90	11.00	12.94	14.00	96.28
	802.11ax-HE20 MCS0	149	5745	9.70	11.00	9.70	11.00	12.94	14.00	98.69
		157	5785	9.80	11.00	9.90	11.00	13.08	14.00	
		165	5825	9.80	11.00	9.80	11.00	12.98	14.00	
	802.11ax-HE40 MCS0	151	5755	9.70	11.00	9.90	11.00	12.98	14.00	98.12
		159	5795	9.80	11.00	9.90	11.00	13.12	14.00	
	802.11ax-HE80 MCS0	155	5775	9.60	11.00	9.90	11.00	12.94	14.00	95.73



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	12.70	13.50	12.80	13.50	15.87	16.50	100.00
		6	2437	13.10	13.50	13.00	13.50	15.78	16.50	
		11	2462	13.00	13.50	13.10	13.50	15.87	16.50	
	802.11g 6Mbps	1	2412	12.60	13.00	12.50	13.00	15.61	16.00	99.25
		6	2437	12.60	13.00	12.40	13.00	15.66	16.00	
		11	2462	12.50	13.00	12.60	13.00	15.61	16.00	
	802.11n-HT20 MCS0	1	2412	12.60	13.00	12.60	13.00	15.66	16.00	99.24
		6	2437	12.60	13.00	12.60	13.00	15.61	16.00	
		11	2462	12.40	13.00	12.50	13.00	15.61	16.00	
	802.11ac-VHT20 MCS0	1	2412	12.70	13.00	12.70	13.00	15.76	16.00	99.24
		6	2437	12.70	13.00	12.70	13.00	15.71	16.00	
		11	2462	12.50	13.00	12.60	13.00	15.71	16.00	
	802.11ax-HE20 MCS0	1	2412	12.70	13.00	12.70	13.00	15.76	16.00	98.69
		6	2437	12.70	13.00	12.70	13.00	15.71	16.00	
		11	2462	12.50	13.00	12.60	13.00	15.71	16.00	

Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	7.80	8.00	7.60	8.00	10.87	11.00	99.00
		40	5200	7.80	8.00	7.60	8.00	10.87	11.00	
		44	5220	7.70	8.00	7.60	8.00	10.87	11.00	
		48	5240	7.70	8.00	7.80	8.00	10.92	11.00	
	802.11n-HT20 MCS0	36	5180	7.30	8.00	7.30	8.00	10.40	11.00	98.99
		40	5200	7.30	8.00	7.60	8.00	10.44	11.00	
		44	5220	7.40	8.00	7.10	8.00	10.44	11.00	
		48	5240	7.20	8.00	7.10	8.00	10.42	11.00	
	802.11n-HT40 MCS0	38	5190	6.40	7.00	6.30	7.00	9.44	10.00	98.47
		46	5230	7.80	9.00	7.70	9.00	11.07	12.00	
	802.11ac-VHT20 MCS0	36	5180	7.40	8.00	7.40	8.00	10.50	11.00	98.99
		40	5200	7.40	8.00	7.40	8.00	10.50	11.00	
		44	5220	7.50	8.00	7.20	8.00	10.54	11.00	
		48	5240	7.30	8.00	7.20	8.00	10.52	11.00	
	802.11ac-VHT40 MCS0	38	5190	6.50	7.00	6.40	7.00	9.54	10.00	98.48
		46	5230	7.90	9.00	7.80	9.00	11.17	12.00	
	802.11ac-VHT80 MCS0	42	5210	5.70	6.00	5.80	6.00	8.88	9.00	96.28
	802.11ax-HE20 MCS0	36	5180	7.40	8.00	7.40	8.00	10.50	11.00	98.69
		40	5200	7.40	8.00	7.40	8.00	10.50	11.00	
		44	5220	7.50	8.00	7.20	8.00	10.54	11.00	
		48	5240	7.30	8.00	7.20	8.00	10.52	11.00	
	802.11ax-HE40 MCS0	38	5190	6.50	7.00	6.40	7.00	9.54	10.00	98.12
		46	5230	7.90	9.00	7.80	9.00	11.17	12.00	
	802.11ax-HE80 MCS0	42	5210	5.70	6.00	5.80	6.00	8.88	9.00	95.73



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	7.70	8.00	7.70	8.00	10.87	11.00	99.00
		56	5280	7.60	8.00	7.70	8.00	10.92	11.00	
		60	5300	7.70	8.00	7.60	8.00	10.92	11.00	
		64	5320	7.80	8.00	7.70	8.00	10.92	11.00	
	802.11n-HT20 MCS0	52	5260	7.70	8.50	7.60	8.50	10.97	11.50	98.99
		56	5280	7.80	8.50	7.60	8.50	11.01	11.50	
		60	5300	7.90	8.50	7.70	8.50	11.01	11.50	
		64	5320	7.80	8.50	7.90	8.50	11.07	11.50	
	802.11n-HT40 MCS0	54	5270	7.90	9.00	7.70	9.00	10.97	12.00	98.47
		62	5310	6.40	7.00	6.40	7.00	9.65	10.00	
	802.11ac-VHT20 MCS0	52	5260	7.80	8.50	7.70	8.50	11.07	11.50	98.99
		56	5280	7.90	8.50	7.70	8.50	11.11	11.50	
		60	5300	8.00	8.50	7.80	8.50	11.11	11.50	
		64	5320	7.90	8.50	8.00	8.50	11.17	11.50	
	802.11ac-VHT40 MCS0	54	5270	8.00	9.00	7.80	9.00	11.07	12.00	98.48
		62	5310	6.50	7.00	6.50	7.00	9.75	10.00	
	802.11ac-VHT80 MCS0	58	5290	4.80	5.50	4.60	5.50	8.01	8.50	96.28
	802.11ax-HE20 MCS0	52	5260	7.80	8.50	7.70	8.50	11.07	11.50	98.69
		56	5280	7.90	8.50	7.70	8.50	11.11	11.50	
		60	5300	8.00	8.50	7.80	8.50	11.11	11.50	
		64	5320	7.90	8.50	8.00	8.50	11.17	11.50	
	802.11ax-HE40 MCS0	54	5270	8.00	9.00	7.80	9.00	11.07	12.00	98.12
		62	5310	6.50	7.00	6.50	7.00	9.75	10.00	
	802.11ax-HE80 MCS0	58	5290	4.80	5.50	4.60	5.50	8.01	8.50	95.73



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	7.80	8.50	7.80	8.50	10.98	11.50	99.00
		116	5580	7.90	8.50	7.90	8.50	10.97	11.50	
		124	5620	7.90	8.50	7.80	8.50	11.10	11.50	
		132	5660	7.90	8.50	7.80	8.50	11.04	11.50	
		144	5720	7.90	8.50	7.80	8.50	10.92	11.50	
	802.11n-HT20 MCS0	100	5500	8.10	8.50	7.90	8.50	11.21	11.50	98.99
		116	5580	8.00	8.50	7.80	8.50	11.02	11.50	
		124	5620	7.90	8.50	7.80	8.50	11.08	11.50	
		132	5660	7.80	8.50	7.80	8.50	10.98	11.50	
		144	5720	7.80	8.50	7.70	8.50	11.00	11.50	
	802.11n-HT40 MCS0	102	5510	7.60	8.00	7.40	8.00	10.55	11.00	98.47
		110	5550	7.90	9.00	7.80	9.00	11.01	12.00	
		126	5630	8.00	9.00	7.80	9.00	11.01	12.00	
		134	5670	7.80	9.00	7.70	9.00	10.82	12.00	
		142	5710	7.90	9.00	7.80	9.00	10.82	12.00	
	802.11ac-VHT20 MCS0	100	5500	8.20	8.50	8.00	8.50	11.31	11.50	98.99
		116	5580	8.10	8.50	7.90	8.50	11.12	11.50	
		124	5620	8.00	8.50	7.90	8.50	11.12	11.50	
		132	5660	7.90	8.50	7.90	8.50	11.04	11.50	
		144	5720	7.90	8.50	7.80	8.50	11.10	11.50	
	802.11ac-VHT40 MCS0	102	5510	7.70	8.00	7.50	8.00	10.65	11.00	98.48
		110	5550	8.00	9.00	7.90	9.00	11.11	12.00	
		126	5630	8.10	9.00	7.90	9.00	11.11	12.00	
		134	5670	7.90	9.00	7.80	9.00	10.92	12.00	
		142	5710	8.00	9.00	7.90	9.00	10.92	12.00	
	802.11ac-VHT80 MCS0	106	5530	5.90	6.50	5.80	6.50	9.01	9.50	96.28
		122	5610	7.80	9.00	7.70	9.00	10.82	12.00	
		138	5690	7.80	9.00	7.70	9.00	10.88	12.00	
	802.11ax-HE20 MCS0	100	5500	8.20	8.50	8.00	8.50	11.31	11.50	98.69
		116	5580	8.10	8.50	7.90	8.50	11.12	11.50	
		124	5620	8.00	8.50	7.90	8.50	11.12	11.50	
		132	5660	7.90	8.50	7.90	8.50	11.04	11.50	
		144	5720	7.90	8.50	7.80	8.50	11.10	11.50	
	802.11ax-HE40 MCS0	102	5510	7.70	8.00	7.50	8.00	10.65	11.00	98.12
		110	5550	8.00	9.00	7.90	9.00	11.11	12.00	
		126	5630	8.10	9.00	7.90	9.00	11.11	12.00	
		134	5670	7.90	9.00	7.80	9.00	10.92	12.00	
		142	5710	8.00	9.00	7.90	9.00	10.92	12.00	
	802.11ax-HE80 MCS0	106	5530	5.90	6.50	5.80	6.50	9.01	9.50	95.73
		122	5610	7.80	9.00	7.70	9.00	10.82	12.00	
		138	5690	7.80	9.00	7.70	9.00	10.88	12.00	



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	8.90	9.00	8.80	9.00	11.96	12.00	99.00
		157	5785	8.90	9.00	8.90	9.00	11.94	12.00	
		165	5825	8.80	9.00	8.80	9.00	12.00	12.00	
	802.11n-HT20 MCS0	149	5745	8.70	9.00	8.70	9.00	11.82	12.00	98.99
		157	5785	8.70	9.00	8.80	9.00	11.92	12.00	
		165	5825	8.80	9.00	8.90	9.00	11.90	12.00	
	802.11n-HT40 MCS0	151	5755	8.70	9.00	8.80	9.00	11.84	12.00	98.47
		159	5795	8.80	9.00	8.90	9.00	11.97	12.00	
	802.11ac-VHT20 MCS0	149	5745	8.70	9.00	8.70	9.00	11.92	12.00	98.99
		157	5785	8.80	9.00	8.90	9.00	12.00	12.00	
		165	5825	8.70	9.00	8.90	9.00	11.88	12.00	
	802.11ac-VHT40 MCS0	151	5755	8.70	9.00	8.70	9.00	11.92	12.00	98.48
		159	5795	8.70	9.00	8.90	9.00	11.97	12.00	
	802.11ac-VHT80 MCS0	155	5775	8.60	9.00	8.90	9.00	11.94	12.00	96.28
	802.11ax-HE20 MCS0	149	5745	8.70	9.00	8.70	9.00	11.92	12.00	98.69
		157	5785	8.80	9.00	8.90	9.00	12.00	12.00	
		165	5825	8.70	9.00	8.90	9.00	11.88	12.00	
	802.11ax-HE40 MCS0	151	5755	8.70	9.00	8.70	9.00	11.92	12.00	98.12
		159	5795	8.70	9.00	8.90	9.00	11.97	12.00	
	802.11ax-HE80 MCS0	155	5775	8.60	9.00	8.90	9.00	11.94	12.00	95.73



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	18.40	19.00	18.50	19.00	21.56	22.00	100.00
		6	2437	18.70	19.00	18.50	19.00	21.86	22.00	
		11	2462	18.70	19.00	18.40	19.00	21.76	22.00	
	802.11g 6Mbps	1	2412	18.10	18.50	18.00	18.50	21.16	21.50	99.25
		6	2437	18.20	18.50	17.90	18.50	21.11	21.50	
		11	2462	18.00	18.50	18.10	18.50	21.21	21.50	
	802.11n-HT20 MCS0	1	2412	18.20	18.50	18.10	18.50	21.21	21.50	99.24
		6	2437	18.00	18.50	18.00	18.50	21.16	21.50	
		11	2462	17.80	18.50	17.90	18.50	20.97	21.50	
	802.11ac-VHT20 MCS0	1	2412	18.20	18.50	18.30	18.50	21.26	21.50	99.24
		6	2437	18.20	18.50	18.10	18.50	21.11	21.50	
		11	2462	18.00	18.50	18.10	18.50	21.07	21.50	
	802.11ax-HE20 MCS0	1	2412	18.20	18.50	18.30	18.50	21.26	21.50	98.69
		6	2437	18.20	18.50	18.10	18.50	21.11	21.50	
		11	2462	18.00	18.50	18.10	18.50	21.07	21.50	

Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	16.30	16.50	16.00	16.50	19.27	19.50	99.00
		40	5200	16.20	16.50	15.90	16.50	19.38	19.50	
		44	5220	16.20	16.50	15.90	16.50	19.32	19.50	
		48	5240	16.20	16.50	16.20	16.50	19.34	19.50	
	802.11n-HT20 MCS0	36	5180	15.80	16.50	15.70	16.50	18.90	19.50	98.99
		40	5200	16.00	16.50	15.70	16.50	18.82	19.50	
		44	5220	15.90	16.50	15.90	16.50	18.98	19.50	
	802.11n-HT40 MCS0	38	5190	14.90	15.50	14.80	15.50	17.97	18.50	98.47
		46	5230	16.40	17.50	16.30	17.50	19.47	20.50	
	802.11ac-VHT20 MCS0	36	5180	15.70	16.50	15.60	16.50	18.80	19.50	98.99
		40	5200	15.60	16.50	15.60	16.50	18.98	19.50	
		44	5220	15.80	16.50	15.80	16.50	18.88	19.50	
		48	5240	15.70	16.50	15.50	16.50	18.68	19.50	
	802.11ac-VHT40 MCS0	38	5190	14.80	15.50	14.70	15.50	17.87	18.50	98.48
		46	5230	16.30	17.50	16.20	17.50	19.37	20.50	
	802.11ac-VHT80 MCS0	42	5210	14.30	14.50	14.30	14.50	17.32	17.50	96.28
	802.11ax-HE20 MCS0	36	5180	15.70	16.50	15.60	16.50	18.80	19.50	98.69
		40	5200	15.60	16.50	15.60	16.50	18.98	19.50	
		44	5220	15.80	16.50	15.80	16.50	18.88	19.50	
		48	5240	15.70	16.50	15.50	16.50	18.68	19.50	
	802.11ax-HE40 MCS0	38	5190	14.80	15.50	14.70	15.50	17.87	18.50	98.12
		46	5230	16.30	17.50	16.20	17.50	19.37	20.50	
	802.11ax-HE80 MCS0	42	5210	14.30	14.50	14.30	14.50	17.32	17.50	95.73

Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	16.10	16.50	16.20	16.50	19.37	19.50	99.00
		56	5280	16.00	16.50	16.00	16.50	19.22	19.50	
		60	5300	16.10	16.50	16.20	16.50	19.40	19.50	
		64	5320	16.20	16.50	16.20	16.50	19.38	19.50	
	802.11n-HT20 MCS0	52	5260	16.10	17.00	16.20	17.00	19.38	20.00	98.99
		56	5280	16.20	17.00	16.10	17.00	19.41	20.00	
		60	5300	16.50	17.00	16.50	17.00	19.57	20.00	
		64	5320	16.50	17.00	16.50	17.00	19.67	20.00	
	802.11n-HT40 MCS0	54	5270	16.30	17.50	16.20	17.50	19.45	20.50	98.47
		62	5310	15.00	15.50	14.80	15.50	18.04	18.50	
	802.11ac-VHT20 MCS0	52	5260	16.00	17.00	16.10	17.00	19.28	20.00	98.99
		56	5280	16.20	17.00	16.20	17.00	19.42	20.00	
		60	5300	16.40	17.00	16.40	17.00	18.91	20.00	
		64	5320	16.40	17.00	16.40	17.00	19.57	20.00	
	802.11ac-VHT40 MCS0	54	5270	16.20	17.50	16.10	17.50	19.35	20.50	98.48
		62	5310	14.90	15.50	14.70	15.50	17.94	18.50	
	802.11ac-VHT80 MCS0	58	5290	13.40	14.00	13.10	14.00	16.35	17.00	96.28
	802.11ax-HE20 MCS0	52	5260	16.00	17.00	16.10	17.00	19.28	20.00	98.69
		56	5280	16.20	17.00	16.20	17.00	19.42	20.00	
		60	5300	16.40	17.00	16.40	17.00	18.91	20.00	
		64	5320	16.40	17.00	16.40	17.00	19.57	20.00	
	802.11ax-HE40 MCS0	54	5270	16.20	17.50	16.10	17.50	19.35	20.50	98.12
		62	5310	14.90	15.50	14.70	15.50	17.94	18.50	
	802.11ax-HE80 MCS0	58	5290	13.40	14.00	13.10	14.00	16.35	17.00	95.73

Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	16.20	17.00	16.10	17.00	19.64	20.00	99.00
		116	5580	16.20	17.00	16.20	17.00	19.50	20.00	
		124	5620	16.20	17.00	16.00	17.00	19.40	20.00	
		132	5660	16.20	17.00	16.10	17.00	20.00	20.00	
		144	5720	16.30	17.00	16.30	17.00	19.37	20.00	
	802.11n-HT20 MCS0	100	5500	16.60	17.00	16.50	17.00	19.61	20.00	98.99
		116	5580	16.40	17.00	16.20	17.00	19.40	20.00	
		124	5620	16.10	17.00	16.20	17.00	19.38	20.00	
		132	5660	16.00	17.00	16.10	17.00	19.32	20.00	
	802.11n-HT40 MCS0	102	5510	15.90	16.50	16.00	16.50	19.14	19.50	98.47
		110	5550	16.60	17.50	16.40	17.50	19.55	20.50	
		126	5630	16.10	17.50	16.10	17.50	19.45	20.50	
		134	5670	16.30	17.50	16.30	17.50	19.32	20.50	
	802.11ac-VHT20 MCS0	100	5500	16.50	17.00	16.40	17.00	19.51	20.00	98.99
		116	5580	16.30	17.00	16.10	17.00	19.30	20.00	
		124	5620	16.20	17.00	16.20	17.00	19.32	20.00	
		132	5660	16.10	17.00	16.30	17.00	19.44	20.00	
	802.11ac-VHT40 MCS0	102	5510	15.80	16.50	15.90	16.50	19.04	19.50	98.48
		110	5550	16.50	17.50	16.30	17.50	19.45	20.50	
		126	5630	16.30	17.50	16.40	17.50	19.21	20.50	
		134	5670	16.20	17.50	16.20	17.50	19.22	20.50	
	802.11ac-VHT80 MCS0	106	5530	14.30	15.00	14.20	15.00	17.41	18.00	96.28
		122	5610	16.20	17.50	16.20	17.50	19.34	20.50	
	802.11ax-HE20 MCS0	100	5500	16.50	17.00	16.40	17.00	19.51	20.00	98.69
		116	5580	16.30	17.00	16.10	17.00	19.30	20.00	
		124	5620	16.20	17.00	16.20	17.00	19.32	20.00	
		132	5660	16.10	17.00	16.30	17.00	19.44	20.00	
	802.11ax-HE40 MCS0	102	5510	15.80	16.50	15.90	16.50	19.04	19.50	98.12
		110	5550	16.50	17.50	16.30	17.50	19.45	20.50	
		126	5630	16.30	17.50	16.40	17.50	19.21	20.50	
		134	5670	16.20	17.50	16.20	17.50	19.22	20.50	
	802.11ax-HE80 MCS0	106	5530	14.30	15.00	14.20	15.00	17.41	18.00	95.73
		122	5610	16.20	17.50	16.20	17.50	19.34	20.50	
		138	5690	16.30	17.50	16.30	17.50	19.22	20.50	



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	12.00	13.00	11.90	13.00	15.10	16.00	99.00
		157	5785	11.90	13.00	11.80	13.00	15.14	16.00	
		165	5825	11.90	13.00	12.00	13.00	15.18	16.00	
	802.11n-HT20 MCS0	149	5745	11.80	13.00	11.70	13.00	14.98	16.00	98.99
		157	5785	11.80	13.00	11.90	13.00	15.08	16.00	
		165	5825	11.70	13.00	11.80	13.00	14.98	16.00	
	802.11n-HT40 MCS0	151	5755	11.80	13.00	11.80	13.00	15.04	16.00	98.47
		159	5795	11.80	13.00	12.00	13.00	15.01	16.00	
	802.11ac-VHT20 MCS0	149	5745	11.80	13.00	11.70	13.00	15.04	16.00	98.99
		157	5785	11.80	13.00	12.00	13.00	15.12	16.00	
		165	5825	11.70	13.00	11.80	13.00	15.04	16.00	
	802.11ac-VHT40 MCS0	151	5755	11.80	13.00	11.80	13.00	15.08	16.00	98.48
		159	5795	11.80	13.00	12.00	13.00	15.07	16.00	
	802.11ac-VHT80 MCS0	155	5775	11.70	13.00	12.00	13.00	15.04	16.00	96.28
	802.11ax-HE20 MCS0	149	5745	11.90	13.00	11.90	13.00	15.10	16.00	98.69
		157	5785	11.90	13.00	11.80	13.00	15.14	16.00	
		165	5825	11.90	13.00	11.70	13.00	15.18	16.00	
	802.11ax-HE40 MCS0	151	5755	11.80	13.00	12.10	13.00	15.10	16.00	98.12
		159	5795	12.10	13.00	11.90	13.00	15.22	16.00	
	802.11ax-HE80 MCS0	155	5775	11.80	13.00	12.00	13.00	15.16	16.00	95.73

Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	16.40	17.00	16.30	17.00	19.51	20.00	100.00
		6	2437	16.70	17.00	16.40	17.00	19.76	20.00	
		11	2462	16.80	17.00	16.50	17.00	19.81	20.00	
	802.11g 6Mbps	1	2412	16.10	16.50	15.90	16.50	19.01	19.50	99.25
		6	2437	16.10	16.50	16.00	16.50	19.06	19.50	
		11	2462	16.00	16.50	16.00	16.50	19.11	19.50	
	802.11n-HT20 MCS0	1	2412	16.10	16.50	16.20	16.50	19.06	19.50	99.24
		6	2437	16.10	16.50	16.00	16.50	19.01	19.50	
		11	2462	15.80	16.50	16.00	16.50	18.86	19.50	
	802.11ac-VHT20 MCS0	1	2412	16.00	16.50	16.10	16.50	18.96	19.50	99.24
		6	2437	16.00	16.50	15.90	16.50	18.91	19.50	
		11	2462	15.70	16.50	15.90	16.50	18.76	19.50	
	802.11ax-HE20 MCS0	1	2412	16.00	16.50	16.10	16.50	18.96	19.50	98.69
		6	2437	16.00	16.50	15.90	16.50	18.91	19.50	
		11	2462	15.70	16.50	15.90	16.50	18.76	19.50	

Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	14.20	14.50	14.00	14.50	17.22	17.50	99.00
		40	5200	14.10	14.50	14.00	14.50	17.32	17.50	
		44	5220	14.00	14.50	13.90	14.50	17.17	17.50	
		48	5240	14.30	14.50	14.20	14.50	17.32	17.50	
	802.11n-HT20 MCS0	36	5180	13.70	14.50	13.70	14.50	16.86	17.50	98.99
		40	5200	13.60	14.50	13.70	14.50	16.86	17.50	
		44	5220	13.80	14.50	13.80	14.50	16.82	17.50	
	802.11n-HT40 MCS0	36	5180	13.70	14.50	13.50	14.50	16.80	17.50	98.47
		40	5200	12.90	13.50	12.80	13.50	15.82	16.50	
		46	5230	14.20	15.50	14.20	15.50	17.41	18.50	
	802.11ac-VHT20 MCS0	36	5180	13.60	14.50	13.60	14.50	16.76	17.50	98.99
		40	5200	13.70	14.50	13.50	14.50	16.92	17.50	
		44	5220	13.70	14.50	13.70	14.50	16.72	17.50	
		48	5240	13.60	14.50	13.40	14.50	16.70	17.50	
	802.11ac-VHT40 MCS0	38	5190	12.80	13.50	12.70	13.50	15.72	16.50	98.48
		46	5230	14.10	15.50	14.10	15.50	17.31	18.50	
	802.11ac-VHT80 MCS0	42	5210	12.20	12.50	12.20	12.50	15.50	15.50	96.28
	802.11ax-HE20 MCS0	36	5180	13.60	14.50	13.60	14.50	16.76	17.50	98.69
		40	5200	13.70	14.50	13.50	14.50	16.92	17.50	
		44	5220	13.70	14.50	13.70	14.50	16.72	17.50	
		48	5240	13.60	14.50	13.40	14.50	16.70	17.50	
	802.11ax-HE40 MCS0	38	5190	12.80	13.50	12.70	13.50	15.72	16.50	98.12
		46	5230	14.10	15.50	14.10	15.50	17.31	18.50	
	802.11ax-HE80 MCS0	42	5210	12.20	12.50	12.20	12.50	15.50	15.50	95.73



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	14.20	14.50	14.10	14.50	17.27	17.50	99.00
		56	5280	14.00	14.50	14.00	14.50	17.28	17.50	
		60	5300	14.10	14.50	13.90	14.50	17.22	17.50	
		64	5320	14.10	14.50	14.00	14.50	17.34	17.50	
	802.11n-HT20 MCS0	52	5260	14.10	15.00	14.20	15.00	17.38	18.00	98.99
		56	5280	14.30	15.00	14.20	15.00	17.34	18.00	
		60	5300	14.40	15.00	14.40	15.00	17.57	18.00	
		64	5320	14.60	15.00	14.40	15.00	17.61	18.00	
	802.11n-HT40 MCS0	54	5270	14.10	15.50	14.20	15.50	17.47	18.50	98.47
		62	5310	12.80	13.50	12.80	13.50	16.10	16.50	
	802.11ac-VHT20 MCS0	52	5260	14.00	15.00	14.10	15.00	17.28	18.00	98.99
		56	5280	14.20	15.00	14.00	15.00	17.66	18.00	
		60	5300	14.30	15.00	14.30	15.00	17.47	18.00	
		64	5320	14.50	15.00	14.30	15.00	17.51	18.00	
	802.11ac-VHT40 MCS0	54	5270	14.00	15.50	14.10	15.50	17.37	18.50	98.48
		62	5310	12.70	13.50	12.70	13.50	16.00	16.50	
	802.11ac-VHT80 MCS0	58	5290	11.30	12.00	11.00	12.00	14.48	15.00	96.28
	802.11ax-HE20 MCS0	52	5260	14.00	15.00	14.10	15.00	17.28	18.00	98.69
		56	5280	14.20	15.00	14.00	15.00	17.66	18.00	
		60	5300	14.30	15.00	14.30	15.00	17.47	18.00	
		64	5320	14.50	15.00	14.30	15.00	17.51	18.00	
	802.11ax-HE40 MCS0	54	5270	14.00	15.50	14.10	15.50	17.37	18.50	98.12
		62	5310	12.70	13.50	12.70	13.50	16.00	16.50	
	802.11ax-HE80 MCS0	58	5290	11.30	12.00	11.00	12.00	14.48	15.00	95.73



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	14.20	15.00	14.00	15.00	17.58	18.00	99.00
		116	5580	14.30	15.00	14.10	15.00	17.40	18.00	
		124	5620	14.20	15.00	14.20	15.00	17.47	18.00	
		132	5660	14.30	15.00	14.10	15.00	17.38	18.00	
		144	5720	14.20	15.00	14.00	15.00	17.28	18.00	
	802.11n-HT20 MCS0	100	5500	14.60	15.00	14.40	15.00	17.61	18.00	98.99
		116	5580	14.40	15.00	14.10	15.00	17.47	18.00	
		124	5620	14.30	15.00	14.20	15.00	17.27	18.00	
		132	5660	14.20	15.00	14.00	15.00	17.37	18.00	
		144	5720	14.30	15.00	14.10	15.00	17.38	18.00	
	802.11n-HT40 MCS0	102	5510	13.90	14.50	14.00	14.50	17.04	17.50	98.47
		110	5550	14.40	15.50	14.20	15.50	17.47	18.50	
		126	5630	14.20	15.50	14.10	15.50	17.28	18.50	
		134	5670	14.20	15.50	14.00	15.50	17.37	18.50	
		142	5710	14.10	15.50	14.20	15.50	17.27	18.50	
	802.11ac-VHT20 MCS0	100	5500	14.50	15.00	14.30	15.00	17.51	18.00	98.99
		116	5580	14.30	15.00	14.00	15.00	17.37	18.00	
		124	5620	14.20	15.00	14.20	15.00	17.46	18.00	
		132	5660	14.10	15.00	14.10	15.00	17.28	18.00	
		144	5720	14.20	15.00	14.00	15.00	17.28	18.00	
	802.11ac-VHT40 MCS0	102	5510	13.80	14.50	13.90	14.50	16.94	17.50	98.48
		110	5550	14.30	15.50	14.10	15.50	17.37	18.50	
		126	5630	14.20	15.50	14.30	15.50	17.46	18.50	
		134	5670	14.10	15.50	13.90	15.50	17.27	18.50	
		142	5710	14.00	15.50	14.10	15.50	17.17	18.50	
	802.11ac-VHT80 MCS0	106	5530	12.30	13.00	12.10	13.00	15.58	16.00	96.28
		122	5610	14.20	15.50	14.00	15.50	17.58	18.50	
		138	5690	14.30	15.50	14.00	15.50	17.57	18.50	
	802.11ax-HE20 MCS0	100	5500	14.50	15.00	14.30	15.00	17.51	18.00	98.69
		116	5580	14.30	15.00	14.00	15.00	17.37	18.00	
		124	5620	14.20	15.00	14.20	15.00	17.46	18.00	
		132	5660	14.10	15.00	14.10	15.00	17.28	18.00	
		144	5720	14.20	15.00	14.00	15.00	17.28	18.00	
	802.11ax-HE40 MCS0	102	5510	13.80	14.50	13.90	14.50	16.94	17.50	98.12
		110	5550	14.30	15.50	14.10	15.50	17.37	18.50	
		126	5630	14.20	15.50	14.30	15.50	17.46	18.50	
		134	5670	14.10	15.50	13.90	15.50	17.27	18.50	
		142	5710	14.00	15.50	14.10	15.50	17.17	18.50	
	802.11ax-HE80 MCS0	106	5530	12.30	13.00	12.10	13.00	15.58	16.00	95.73
		122	5610	14.20	15.50	14.00	15.50	17.58	18.50	
		138	5690	14.30	15.50	14.00	15.50	17.57	18.50	



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	12.00	13.00	11.90	13.00	15.10	16.00	99.00
		157	5785	11.90	13.00	11.80	13.00	15.14	16.00	
		165	5825	11.90	13.00	12.00	13.00	15.18	16.00	
	802.11n-HT20 MCS0	149	5745	11.80	13.00	11.70	13.00	14.98	16.00	98.99
		157	5785	11.80	13.00	11.90	13.00	15.08	16.00	
		165	5825	11.70	13.00	11.80	13.00	14.98	16.00	
	802.11n-HT40 MCS0	151	5755	11.80	13.00	11.80	13.00	15.04	16.00	98.47
		159	5795	11.80	13.00	12.00	13.00	15.01	16.00	
	802.11ac-VHT20 MCS0	149	5745	11.80	13.00	11.70	13.00	15.04	16.00	98.99
		157	5785	11.80	13.00	12.00	13.00	15.12	16.00	
		165	5825	11.70	13.00	11.80	13.00	15.04	16.00	
	802.11ac-VHT40 MCS0	151	5755	11.80	13.00	11.80	13.00	15.08	16.00	98.48
		159	5795	11.80	13.00	12.00	13.00	15.07	16.00	
	802.11ac-VHT80 MCS0	155	5775	11.70	13.00	12.00	13.00	15.04	16.00	96.28
	802.11ax-HE20 MCS0	149	5745	11.90	13.00	11.90	13.00	15.10	16.00	98.69
		157	5785	11.90	13.00	11.80	13.00	15.14	16.00	
		165	5825	11.90	13.00	11.70	13.00	15.18	16.00	
	802.11ax-HE40 MCS0	151	5755	11.80	13.00	12.10	13.00	15.10	16.00	98.12
		159	5795	12.10	13.00	11.90	13.00	15.22	16.00	
	802.11ax-HE80 MCS0	155	5775	11.80	13.00	12.00	13.00	15.16	16.00	95.73

Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	15.00	15.50	15.00	15.50	18.11	18.50	100.00
		6	2437	15.40	15.50	15.10	15.50	18.41	18.50	
		11	2462	15.30	15.50	15.10	15.50	18.36	18.50	
	802.11g 6Mbps	1	2412	14.70	15.00	14.60	15.00	17.71	18.00	99.25
		6	2437	14.70	15.00	14.50	15.00	17.71	18.00	
		11	2462	14.60	15.00	14.70	15.00	17.66	18.00	
	802.11n-HT20 MCS0	1	2412	14.70	15.00	14.70	15.00	17.71	18.00	99.24
		6	2437	14.50	15.00	14.50	15.00	17.66	18.00	
		11	2462	14.50	15.00	14.50	15.00	17.57	18.00	
	802.11ac-VHT20 MCS0	1	2412	14.80	15.00	14.80	15.00	17.81	18.00	99.24
		6	2437	14.60	15.00	14.60	15.00	17.76	18.00	
		11	2462	14.60	15.00	14.60	15.00	17.67	18.00	
	802.11ax-HE20 MCS0	1	2412	14.80	15.00	14.80	15.00	17.81	18.00	98.69
		6	2437	14.60	15.00	14.60	15.00	17.76	18.00	
		11	2462	14.60	15.00	14.60	15.00	17.67	18.00	

Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	12.80	13.00	12.60	13.00	15.92	16.00	99.00
		40	5200	12.70	13.00	12.60	13.00	15.98	16.00	
		44	5220	12.70	13.00	12.60	13.00	15.92	16.00	
		48	5240	12.80	13.00	12.80	13.00	15.98	16.00	
	802.11n-HT20 MCS0	36	5180	12.30	13.00	12.30	13.00	15.40	16.00	98.99
		40	5200	12.40	13.00	12.30	13.00	15.48	16.00	
		44	5220	12.40	13.00	12.20	13.00	15.48	16.00	
		48	5240	12.30	13.00	12.20	13.00	15.42	16.00	
	802.11n-HT40 MCS0	38	5190	11.40	12.00	11.30	12.00	14.44	15.00	98.47
		46	5230	12.80	14.00	12.80	14.00	16.07	17.00	
	802.11ac-VHT20 MCS0	36	5180	12.40	13.00	12.40	13.00	15.50	16.00	98.99
		40	5200	12.50	13.00	12.40	13.00	15.58	16.00	
		44	5220	12.50	13.00	12.30	13.00	15.58	16.00	
		48	5240	12.40	13.00	12.30	13.00	15.52	16.00	
	802.11ac-VHT40 MCS0	38	5190	11.50	12.00	11.40	12.00	14.54	15.00	98.48
		46	5230	12.90	14.00	12.90	14.00	16.17	17.00	
	802.11ac-VHT80 MCS0	42	5210	10.80	11.00	10.80	11.00	13.88	14.00	96.28
	802.11ax-HE20 MCS0	36	5180	12.40	13.00	12.40	13.00	15.50	16.00	98.69
		40	5200	12.50	13.00	12.40	13.00	15.58	16.00	
		44	5220	12.50	13.00	12.30	13.00	15.58	16.00	
		48	5240	12.40	13.00	12.30	13.00	15.52	16.00	
	802.11ax-HE40 MCS0	38	5190	11.50	12.00	11.40	12.00	14.54	15.00	98.12
		46	5230	12.90	14.00	12.90	14.00	16.17	17.00	
	802.11ax-HE80 MCS0	42	5210	10.80	11.00	10.80	11.00	13.88	14.00	95.73



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	12.80	13.00	12.80	13.00	15.87	16.00	99.00
		56	5280	12.60	13.00	12.80	13.00	15.92	16.00	
		60	5300	12.70	13.00	12.70	13.00	15.98	16.00	
		64	5320	12.70	13.00	12.70	13.00	15.98	16.00	
	802.11n-HT20 MCS0	52	5260	12.70	13.50	12.70	13.50	15.97	16.50	98.99
		56	5280	12.90	13.50	12.70	13.50	16.11	16.50	
		60	5300	13.00	13.50	12.80	13.50	16.11	16.50	
	802.11n-HT40 MCS0	64	5320	12.90	13.50	12.90	13.50	16.17	16.50	98.47
		54	5270	12.80	14.00	12.80	14.00	16.01	17.00	
	802.11ac-VHT20 MCS0	62	5310	11.40	12.00	11.40	12.00	14.65	15.00	98.99
		52	5260	12.80	13.50	12.80	13.50	16.07	16.50	
		56	5280	13.00	13.50	12.80	13.50	16.17	16.50	
		60	5300	13.10	13.50	12.90	13.50	16.21	16.50	
	802.11ac-VHT40 MCS0	64	5320	13.00	13.50	13.00	13.50	16.27	16.50	98.48
		54	5270	12.90	14.00	12.90	14.00	16.11	17.00	
	802.11ac-VHT80 MCS0	62	5310	11.50	12.00	11.50	12.00	14.75	15.00	96.28
	802.11ac-VHT80 MCS0	58	5290	9.90	10.50	9.70	10.50	13.01	13.50	
	802.11ax-HE20 MCS0	52	5260	12.80	13.50	12.80	13.50	16.07	16.50	98.69
		56	5280	13.00	13.50	12.80	13.50	16.17	16.50	
		60	5300	13.10	13.50	12.90	13.50	16.21	16.50	
		64	5320	13.00	13.50	13.00	13.50	16.27	16.50	
	802.11ax-HE40 MCS0	54	5270	12.90	14.00	12.90	14.00	16.11	17.00	98.12
		62	5310	11.50	12.00	11.50	12.00	14.75	15.00	
	802.11ax-HE80 MCS0	58	5290	9.90	10.50	9.70	10.50	13.01	13.50	95.73



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	12.90	13.50	12.80	13.50	16.18	16.50	99.00
		116	5580	12.90	13.50	12.80	13.50	16.14	16.50	
		124	5620	12.90	13.50	12.80	13.50	16.10	16.50	
		132	5660	12.90	13.50	12.80	13.50	16.04	16.50	
		144	5720	12.90	13.50	12.80	13.50	15.98	16.50	
	802.11n-HT20 MCS0	100	5500	13.10	13.50	13.00	13.50	16.21	16.50	98.99
		116	5580	13.00	13.50	12.80	13.50	16.02	16.50	
		124	5620	12.80	13.50	12.70	13.50	16.08	16.50	
		132	5660	12.80	13.50	12.70	13.50	15.98	16.50	
		144	5720	12.90	13.50	12.80	13.50	16.00	16.50	
	802.11n-HT40 MCS0	102	5510	12.60	13.00	12.40	13.00	15.60	16.00	98.47
		110	5550	13.00	14.00	12.90	14.00	16.05	17.00	
		126	5630	12.80	14.00	12.80	14.00	15.97	17.00	
		134	5670	12.80	14.00	12.80	14.00	15.92	17.00	
		142	5710	12.90	14.00	12.80	14.00	15.92	17.00	
	802.11ac-VHT20 MCS0	100	5500	13.20	13.50	13.10	13.50	16.31	16.50	98.99
		116	5580	13.10	13.50	12.90	13.50	16.12	16.50	
		124	5620	12.90	13.50	12.80	13.50	16.12	16.50	
		132	5660	12.90	13.50	12.80	13.50	16.04	16.50	
		144	5720	13.00	13.50	12.90	13.50	16.10	16.50	
	802.11ac-VHT40 MCS0	102	5510	12.70	13.00	12.50	13.00	15.70	16.00	98.48
		110	5550	13.10	14.00	13.00	14.00	16.15	17.00	
		126	5630	12.90	14.00	12.90	14.00	16.11	17.00	
		134	5670	12.90	14.00	12.90	14.00	16.02	17.00	
		142	5710	13.00	14.00	12.90	14.00	16.02	17.00	
	802.11ac-VHT80 MCS0	106	5530	10.90	11.50	10.80	11.50	14.01	14.50	96.28
		122	5610	12.90	14.00	12.80	14.00	15.92	17.00	
		138	5690	12.90	14.00	12.80	14.00	15.92	17.00	
	802.11ax-HE20 MCS0	100	5500	13.20	13.50	13.10	13.50	16.31	16.50	98.69
		116	5580	13.10	13.50	12.90	13.50	16.12	16.50	
		124	5620	12.90	13.50	12.80	13.50	16.12	16.50	
		132	5660	12.90	13.50	12.80	13.50	16.04	16.50	
		144	5720	13.00	13.50	12.90	13.50	16.10	16.50	
	802.11ax-HE40 MCS0	102	5510	12.70	13.00	12.50	13.00	15.70	16.00	98.12
		110	5550	13.10	14.00	13.00	14.00	16.15	17.00	
		126	5630	12.90	14.00	12.90	14.00	16.11	17.00	
		134	5670	12.90	14.00	12.90	14.00	16.02	17.00	
		142	5710	13.00	14.00	12.90	14.00	16.02	17.00	
	802.11ax-HE80 MCS0	106	5530	10.90	11.50	10.80	11.50	14.01	14.50	95.73
		122	5610	12.90	14.00	12.80	14.00	15.92	17.00	
		138	5690	12.90	14.00	12.80	14.00	15.92	17.00	



Channel / Frequency				Ant 1		Ant 2		ANT 1+2		
	Mode	Channel	Frequency (MHz)	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	12.00	13.00	11.90	13.00	15.10	16.00	99.00
		157	5785	11.90	13.00	11.80	13.00	15.14	16.00	
		165	5825	11.90	13.00	12.00	13.00	15.18	16.00	
	802.11n-HT20 MCS0	149	5745	11.80	13.00	11.70	13.00	14.98	16.00	98.99
		157	5785	11.80	13.00	11.90	13.00	15.08	16.00	
		165	5825	11.70	13.00	11.80	13.00	14.98	16.00	
	802.11n-HT40 MCS0	151	5755	11.80	13.00	11.80	13.00	15.04	16.00	98.47
		159	5795	11.80	13.00	12.00	13.00	15.01	16.00	
	802.11ac-VHT20 MCS0	149	5745	11.80	13.00	11.70	13.00	15.04	16.00	98.99
		157	5785	11.80	13.00	12.00	13.00	15.12	16.00	
		165	5825	11.70	13.00	11.80	13.00	15.04	16.00	
	802.11ac-VHT40 MCS0	151	5755	11.80	13.00	11.80	13.00	15.08	16.00	98.48
		159	5795	11.80	13.00	12.00	13.00	15.07	16.00	
	802.11ac-VHT80 MCS0	155	5775	11.70	13.00	12.00	13.00	15.04	16.00	96.28
	802.11ax-HE20 MCS0	149	5745	11.90	13.00	11.90	13.00	15.10	16.00	98.69
		157	5785	11.90	13.00	11.80	13.00	15.14	16.00	
		165	5825	11.90	13.00	11.70	13.00	15.18	16.00	
	802.11ax-HE40 MCS0	151	5755	11.80	13.00	12.10	13.00	15.10	16.00	98.12
		159	5795	12.10	13.00	11.90	13.00	15.22	16.00	
	802.11ax-HE80 MCS0	155	5775	11.80	13.00	12.00	13.00	15.16	16.00	95.73

General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 77.22% considered in SAR testing, and the duty cycle would be scaled to theoretica

Ant 1

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	13.33	8.78	8.80
	CH 39	2441	13.62	8.85	8.86
	CH 78	2480	13.52	8.89	8.91
Tune-up Limit			14.00	9.00	9.00

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	6.40	6.30
	CH 19	2440	6.50	6.30
	CH 39	2480	6.00	6.00
Tune-up Limit			8.00	8.00

Ant 2

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	12.55	8.02	8.04
	CH 39	2441	13.33	8.64	8.66
	CH 78	2480	13.22	8.70	8.74
Tune-up Limit			14.00	9.00	9.00

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	7.20	7.10
	CH 19	2440	7.30	7.20
	CH 39	2480	6.50	6.40
Tune-up Limit			8.00	8.00