



Band 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	18.84	18.97	18.89	19.7	0
20	QPSK	1	49	18.80	18.93	18.87		
20	QPSK	1	99	18.76	18.90	18.80		
20	QPSK	50	0	18.87	18.91	18.75	19.7	0
20	QPSK	50	24	18.70	18.86	18.84		
20	QPSK	50	50	18.68	18.83	18.72		
20	QPSK	100	0	18.76	18.80	18.75		
20	16QAM	1	0	18.70	18.77	18.63	19.7	0
20	16QAM	1	49	18.65	18.75	18.67		
20	16QAM	1	99	18.60	18.63	18.55		
20	16QAM	50	0	18.54	18.68	18.58	19.7	0
20	16QAM	50	24	18.79	18.80	18.80		
20	16QAM	50	50	18.77	18.82	18.64		
20	16QAM	100	0	18.78	18.75	18.75		
20	64QAM	1	0	18.64	18.72	18.56	19.7	0
20	64QAM	1	49	18.66	18.73	18.54		
20	64QAM	1	99	18.59	18.65	18.62		
20	64QAM	50	0	18.54	18.67	18.50	19.7	0
20	64QAM	50	24	18.53	18.58	18.47		
20	64QAM	50	50	18.45	18.61	18.58		
20	64QAM	100	0	18.61	18.64	18.65		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	18.67	18.90	18.80	19.7	0
15	QPSK	1	37	18.72	18.82	18.81		
15	QPSK	1	74	18.59	18.78	18.78		
15	QPSK	36	0	18.79	18.76	18.70	19.7	0
15	QPSK	36	20	18.63	18.82	18.66		
15	QPSK	36	39	18.61	18.80	18.60		
15	QPSK	75	0	18.74	18.71	18.59		
15	16QAM	1	0	18.67	18.68	18.52	19.7	0
15	16QAM	1	37	18.53	18.66	18.61		
15	16QAM	1	74	18.52	18.52	18.42		
15	16QAM	36	0	18.44	18.54	18.44	19.7	0
15	16QAM	36	20	18.69	18.76	18.77		
15	16QAM	36	39	18.69	18.70	18.60		
15	16QAM	75	0	18.66	18.57	18.71		
15	64QAM	1	0	18.47	18.68	18.48	19.7	0
15	64QAM	1	37	18.48	18.65	18.38		
15	64QAM	1	74	18.44	18.54	18.46		
15	64QAM	36	0	18.51	18.54	18.42	19.7	0
15	64QAM	36	20	18.50	18.47	18.44		
15	64QAM	36	39	18.28	18.56	18.53		
15	64QAM	75	0	18.53	18.54	18.50		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	18.80	18.84	18.86	19.7	0
10	QPSK	1	25	18.71	18.76	18.80		
10	QPSK	1	49	18.63	18.78	18.69		
10	QPSK	25	0	18.82	18.89	18.58		



10	QPSK	25	12	18.63	18.75	18.72		
10	QPSK	25	25	18.56	18.69	18.62		
10	QPSK	50	0	18.64	18.65	18.64		
10	16QAM	1	0	18.66	18.60	18.48	19.7	0
10	16QAM	1	25	18.56	18.63	18.54		
10	16QAM	1	49	18.50	18.52	18.52		
10	16QAM	25	0	18.49	18.57	18.44	19.7	0
10	16QAM	25	12	18.64	18.74	18.71		
10	16QAM	25	25	18.69	18.79	18.52		
10	16QAM	50	0	18.72	18.65	18.62		
10	64QAM	1	0	18.54	18.62	18.51	19.7	0
10	64QAM	1	25	18.50	18.55	18.38		
10	64QAM	1	49	18.44	18.48	18.60		
10	64QAM	25	0	18.45	18.53	18.39	19.7	0
10	64QAM	25	12	18.36	18.46	18.40		
10	64QAM	25	25	18.43	18.44	18.48		
10	64QAM	50	0	18.56	18.58	18.57		
Channel				19975	20175	20375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	18.69	18.79	18.82	19.7	0
5	QPSK	1	12	18.75	18.82	18.82		
5	QPSK	1	24	18.65	18.73	18.63		
5	QPSK	12	0	18.79	18.86	18.68	19.7	0
5	QPSK	12	7	18.65	18.76	18.74		
5	QPSK	12	13	18.56	18.81	18.63		
5	QPSK	25	0	18.64	18.75	18.66		
5	16QAM	1	0	18.56	18.66	18.54	19.7	0
5	16QAM	1	12	18.57	18.58	18.54		
5	16QAM	1	24	18.51	18.51	18.44		
5	16QAM	12	0	18.47	18.53	18.45	19.7	0
5	16QAM	12	7	18.63	18.77	18.75		
5	16QAM	12	13	18.60	18.66	18.54		
5	16QAM	25	0	18.65	18.58	18.71		
5	64QAM	1	0	18.53	18.59	18.51		
5	64QAM	1	12	18.54	18.55	18.51	19.7	0
5	64QAM	1	24	18.43	18.59	18.48		
5	64QAM	12	0	18.47	18.60	18.42		
5	64QAM	12	7	18.43	18.48	18.32	19.7	0
5	64QAM	12	13	18.43	18.58	18.43		
5	64QAM	25	0	18.55	18.47	18.52		
5	64QAM	25	0	18.55	18.47	18.52		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	18.73	18.91	18.72	19.7	0
3	QPSK	1	8	18.70	18.87	18.70		
3	QPSK	1	14	18.72	18.86	18.74		
3	QPSK	8	0	18.82	18.77	18.58	19.7	0
3	QPSK	8	4	18.63	18.75	18.73		
3	QPSK	8	7	18.57	18.73	18.57		
3	QPSK	15	0	18.68	18.71	18.65		
3	16QAM	1	0	18.68	18.73	18.52	19.7	0
3	16QAM	1	8	18.57	18.69	18.49		
3	16QAM	1	14	18.57	18.60	18.47		
3	16QAM	8	0	18.44	18.66	18.44	19.7	0
3	16QAM	8	4	18.65	18.68	18.67		
3	16QAM	8	7	18.75	18.79	18.56		
3	16QAM	15	0	18.62	18.64	18.61		
3	16QAM	15	0	18.62	18.64	18.61		



3	64QAM	1	0	18.54	18.54	18.47	19.7	0
3	64QAM	1	8	18.56	18.59	18.49		
3	64QAM	1	14	18.51	18.48	18.56		
3	64QAM	8	0	18.48	18.53	18.38	19.7	0
3	64QAM	8	4	18.51	18.41	18.39		
3	64QAM	8	7	18.30	18.45	18.43		
3	64QAM	15	0	18.58	18.61	18.48		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	18.73	18.85	18.75	19.7	0
1.4	QPSK	1	3	18.73	18.79	18.75		
1.4	QPSK	1	5	18.66	18.75	18.75		
1.4	QPSK	3	0	18.74	18.86	18.72		
1.4	QPSK	3	1	18.60	18.74	18.68		
1.4	QPSK	3	3	18.53	18.72	18.63		
1.4	QPSK	6	0	18.60	18.76	18.66	19.7	0
1.4	16QAM	1	0	18.54	18.70	18.57	19.7	0
1.4	16QAM	1	3	18.51	18.67	18.58		
1.4	16QAM	1	5	18.57	18.51	18.40		
1.4	16QAM	3	0	18.46	18.56	18.42		
1.4	16QAM	3	1	18.64	18.77	18.71		
1.4	16QAM	3	3	18.63	18.68	18.53		
1.4	16QAM	6	0	18.64	18.70	18.73	19.7	0
1.4	64QAM	1	0	18.59	18.60	18.39	19.7	0
1.4	64QAM	1	3	18.56	18.68	18.42		
1.4	64QAM	1	5	18.41	18.54	18.44		
1.4	64QAM	3	0	18.50	18.53	18.46		
1.4	64QAM	3	1	18.44	18.42	18.38		
1.4	64QAM	3	3	18.41	18.55	18.48		
1.4	64QAM	6	0	18.45	18.47	18.50	19.7	0



Band 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	22.36	22.47	22.39	23.3	0
10	QPSK	1	25	22.24	22.38	22.24		
10	QPSK	1	49	22.37	22.42	22.39		
10	QPSK	25	0	21.41	21.67	21.33	23.3	0
10	QPSK	25	12	21.33	21.50	21.33		
10	QPSK	25	25	21.41	21.50	21.55		
10	QPSK	50	0	21.55	21.62	21.60	23.3	0
10	16QAM	1	0	21.40	21.63	21.43		
10	16QAM	1	25	21.42	21.45	21.33		
10	16QAM	1	49	21.49	21.45	21.38	23	0.3
10	16QAM	25	0	21.13	21.24	21.04		
10	16QAM	25	12	21.10	21.03	21.06		
10	16QAM	25	25	21.21	21.31	21.06	23	0.3
10	16QAM	50	0	21.33	21.26	21.16		
10	64QAM	1	0	21.24	21.26	21.22		
10	64QAM	1	25	21.00	21.12	21.13	23	0.3
10	64QAM	1	49	21.08	21.21	21.03		
10	64QAM	25	0	20.46	20.55	20.40		
10	64QAM	25	12	20.42	20.38	20.24	22	1.3
10	64QAM	25	25	20.42	20.48	20.50		
10	64QAM	50	0	20.66	20.63	20.49		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	22.22	22.43	22.42	23.3	0
5	QPSK	1	12	22.41	22.42	22.05		
5	QPSK	1	24	22.38	22.29	22.46		
5	QPSK	12	0	21.42	21.73	21.54	23.3	0
5	QPSK	12	7	21.49	21.68	21.54		
5	QPSK	12	13	21.30	21.63	21.48		
5	QPSK	25	0	21.54	21.80	21.73	23.3	0
5	16QAM	1	0	21.49	21.81	21.49		
5	16QAM	1	12	21.60	21.33	21.49		
5	16QAM	1	24	21.50	21.40	21.42	23	0.3
5	16QAM	12	0	21.26	21.40	21.11		
5	16QAM	12	7	21.21	21.04	21.26		
5	16QAM	12	13	21.20	21.21	21.00	23	0.3
5	16QAM	25	0	21.15	21.10	21.18		
5	64QAM	1	0	21.12	21.15	21.39		
5	64QAM	1	12	21.10	21.09	21.26	23	0.3
5	64QAM	1	24	21.10	21.30	21.10		
5	64QAM	12	0	20.62	20.55	20.29		
5	64QAM	12	7	20.40	20.36	20.21	22	1.3
5	64QAM	12	13	20.27	20.35	20.63		
5	64QAM	25	0	20.82	20.51	20.56		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	22.45	22.40	22.34	23.3	0
3	QPSK	1	8	22.18	22.41	22.06		
3	QPSK	1	14	22.34	22.39	22.23		
3	QPSK	8	0	21.39	21.42	21.34	23.3	0



3	QPSK	8	4	21.31	21.63	21.54		
3	QPSK	8	7	21.32	21.42	21.58		
3	QPSK	15	0	21.74	21.71	21.68		
3	16QAM	1	0	21.54	21.47	21.43	23.3	0
3	16QAM	1	8	21.30	21.58	21.32		
3	16QAM	1	14	21.51	21.54	21.47		
3	16QAM	8	0	21.15	21.43	21.21	23	0.3
3	16QAM	8	4	21.06	21.07	21.10		
3	16QAM	8	7	21.07	21.31	21.21		
3	16QAM	15	0	21.36	21.20	21.21		
3	64QAM	1	0	21.33	21.37	21.36	23	0.3
3	64QAM	1	8	21.05	21.03	21.02		
3	64QAM	1	14	21.23	21.29	21.12		
3	64QAM	8	0	20.33	20.72	20.52	22	1.3
3	64QAM	8	4	20.55	20.55	20.26		
3	64QAM	8	7	20.47	20.64	20.42		
3	64QAM	15	0	20.48	20.48	20.65		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	22.40	22.42	22.22	23.3	0
1.4	QPSK	1	3	22.39	22.45	22.31		
1.4	QPSK	1	5	22.42	22.41	22.46		
1.4	QPSK	3	0	21.50	21.34	21.62		
1.4	QPSK	3	1	21.68	21.74	21.79		
1.4	QPSK	3	3	21.44	21.82	21.41		
1.4	QPSK	6	0	21.53	21.39	21.32	23.3	0
1.4	16QAM	1	0	21.37	21.73	21.59	23.3	0
1.4	16QAM	1	3	21.55	21.59	21.42		
1.4	16QAM	1	5	21.43	21.61	21.39		
1.4	16QAM	3	0	21.43	21.51	21.75		
1.4	16QAM	3	1	21.47	21.74	21.41		
1.4	16QAM	3	3	21.39	21.35	21.31		
1.4	16QAM	6	0	21.37	21.39	21.13	23	0.3
1.4	64QAM	1	0	21.37	21.25	21.04	23	0.3
1.4	64QAM	1	3	21.42	21.45	21.33		
1.4	64QAM	1	5	21.49	21.45	21.38		
1.4	64QAM	3	0	21.13	21.24	21.04		
1.4	64QAM	3	1	21.10	21.03	21.06		
1.4	64QAM	3	3	21.21	21.31	21.06		
1.4	64QAM	6	0	20.73	20.80	20.34	22	1.3



Band 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	13.29	13.36	13.31	14.4	0
20	QPSK	1	49	13.30	13.22	13.32		
20	QPSK	1	99	13.22	13.31	13.30		
20	QPSK	50	0	13.30	13.32	13.31	14.4	0
20	QPSK	50	24	13.20	13.24	13.21		
20	QPSK	50	50	13.11	13.28	13.14		
20	QPSK	100	0	13.22	13.32	13.18		
20	16QAM	1	0	13.24	13.23	13.20	14.4	0
20	16QAM	1	49	13.17	13.24	13.22		
20	16QAM	1	99	13.23	13.08	13.07		
20	16QAM	50	0	13.21	13.13	13.17	14.4	0
20	16QAM	50	24	13.31	13.27	13.22		
20	16QAM	50	50	13.30	13.21	13.21		
20	16QAM	100	0	13.22	13.20	13.30		
20	64QAM	1	0	13.26	13.18	13.11	14.4	0
20	64QAM	1	49	13.26	13.20	13.12		
20	64QAM	1	99	13.20	13.19	13.24		
20	64QAM	50	0	13.10	13.14	13.09	14.4	0
20	64QAM	50	24	13.18	13.09	13.11		
20	64QAM	50	50	13.23	13.17	13.24		
20	64QAM	100	0	13.21	13.18	13.24		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	13.27	13.35	13.23	14.4	0
15	QPSK	1	37	13.22	13.21	13.32		
15	QPSK	1	74	13.30	13.19	13.33		
15	QPSK	36	0	13.19	13.19	13.30	14.4	0
15	QPSK	36	20	13.26	13.18	13.20		
15	QPSK	36	39	13.19	13.31	13.06		
15	QPSK	75	0	13.26	13.19	13.19		
15	16QAM	1	0	13.18	13.30	13.10	14.4	0
15	16QAM	1	37	13.19	13.15	13.30		
15	16QAM	1	74	13.24	13.08	13.06		
15	16QAM	36	0	13.20	13.19	13.25	14.4	0
15	16QAM	36	20	13.23	13.28	13.28		
15	16QAM	36	39	13.19	13.19	13.19		
15	16QAM	75	0	13.27	13.12	13.25		
15	64QAM	1	0	13.31	13.26	13.19	14.4	0
15	64QAM	1	37	13.21	13.13	13.15		
15	64QAM	1	74	13.11	13.29	13.20		
15	64QAM	36	0	13.02	13.13	13.02	14.4	0
15	64QAM	36	20	13.16	13.13	13.10		
15	64QAM	36	39	13.17	13.08	13.30		
15	64QAM	75	0	13.20	13.22	13.22		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	13.25	13.30	13.32	14.4	0
10	QPSK	1	25	13.26	13.23	13.29		
10	QPSK	1	49	13.30	13.17	13.28		
10	QPSK	25	0	13.21	13.27	13.28	14.4	0



10	QPSK	25	12	13.14	13.25	13.12		
10	QPSK	25	25	13.17	13.25	13.22		
10	QPSK	50	0	13.20	13.22	13.25		
10	16QAM	1	0	13.24	13.15	13.18	14.4	0
10	16QAM	1	25	13.19	13.21	13.12		
10	16QAM	1	49	13.17	13.01	13.15		
10	16QAM	25	0	13.14	13.09	13.15	14.4	0
10	16QAM	25	12	13.30	13.23	13.19		
10	16QAM	25	25	13.25	13.24	13.30		
10	16QAM	50	0	13.30	13.11	13.22		
10	64QAM	1	0	13.29	13.23	13.10	14.4	0
10	64QAM	1	25	13.17	13.20	13.16		
10	64QAM	1	49	13.24	13.18	13.32		
10	64QAM	25	0	13.18	13.19	13.17	14.4	0
10	64QAM	25	12	13.25	13.01	13.04		
10	64QAM	25	25	13.26	13.16	13.20		
10	64QAM	50	0	13.15	13.21	13.18		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	13.32	13.28	13.30	14.4	0
5	QPSK	1	12	13.24	13.27	13.24		
5	QPSK	1	24	13.20	13.24	13.35		
5	QPSK	12	0	13.32	13.31	13.22	14.4	0
5	QPSK	12	7	13.26	13.18	13.13		
5	QPSK	12	13	13.18	13.21	13.06		
5	QPSK	25	0	13.16	13.24	13.09		
5	16QAM	1	0	13.19	13.28	13.10	14.4	0
5	16QAM	1	12	13.09	13.28	13.17		
5	16QAM	1	24	13.32	13.16	12.99		
5	16QAM	12	0	13.13	13.07	13.24	14.4	0
5	16QAM	12	7	13.30	13.17	13.26		
5	16QAM	12	13	13.33	13.23	13.31		
5	16QAM	25	0	13.31	13.15	13.26		
5	64QAM	1	0	13.16	13.20	13.19	14.4	0
5	64QAM	1	12	13.28	13.23	13.12		
5	64QAM	1	24	13.18	13.28	13.25		
5	64QAM	12	0	13.06	13.22	13.13	14.4	0
5	64QAM	12	7	13.14	13.15	13.08		
5	64QAM	12	13	13.18	13.18	13.22		
5	64QAM	25	0	13.13	13.23	13.24		



Band 12								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	21.50	21.59	21.51	22.3	0
10	QPSK	1	25	21.51	21.50	21.48		
10	QPSK	1	49	21.52	21.43	21.49		
10	QPSK	25	0	21.49	21.54	21.38	22.3	0
10	QPSK	25	12	21.31	21.52	21.44		
10	QPSK	25	25	21.35	21.42	21.40		
10	QPSK	50	0	21.43	21.49	21.38	22.3	0
10	16QAM	1	0	21.34	21.39	21.33		
10	16QAM	1	25	21.44	21.41	21.39		
10	16QAM	1	49	21.32	21.37	21.30	22.3	0
10	16QAM	25	0	21.40	21.34	21.27		
10	16QAM	25	12	21.36	21.43	21.33		
10	16QAM	25	25	21.56	21.42	21.29	22.3	0
10	16QAM	50	0	21.54	21.45	21.44		
10	64QAM	1	0	21.42	21.52	21.36		
10	64QAM	1	25	21.40	21.43	21.47	22.3	0
10	64QAM	1	49	21.41	21.41	21.37		
10	64QAM	25	0	20.91	21.17	21.12		
10	64QAM	25	12	21.10	20.99	20.93	22	0.3
10	64QAM	25	25	21.12	21.18	21.06		
10	64QAM	50	0	21.23	21.10	21.01		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	21.44	21.50	21.48	22.3	0
5	QPSK	1	12	21.40	21.38	21.37		
5	QPSK	1	24	21.38	21.40	21.35		
5	QPSK	12	0	21.46	21.36	21.36	22.3	0
5	QPSK	12	7	21.19	21.46	21.29		
5	QPSK	12	13	21.21	21.34	21.24		
5	QPSK	25	0	21.34	21.39	21.33	22.3	0
5	16QAM	1	0	21.21	21.30	21.20		
5	16QAM	1	12	21.28	21.33	21.24		
5	16QAM	1	24	21.14	21.33	21.33	22.3	0
5	16QAM	12	0	21.36	21.20	21.09		
5	16QAM	12	7	21.55	21.26	21.36		
5	16QAM	12	13	21.41	21.28	21.21	22.3	0
5	16QAM	25	0	21.49	21.34	21.31		
5	64QAM	1	0	21.29	21.39	21.32		
5	64QAM	1	12	21.31	21.35	21.42	22.3	0
5	64QAM	1	24	21.29	21.25	21.21		
5	64QAM	12	0	20.84	21.12	21.08		
5	64QAM	12	7	20.93	20.89	20.84	22	0.3
5	64QAM	12	13	21.01	21.12	20.99		
5	64QAM	25	0	21.15	21.05	20.88		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	21.44	21.47	21.41	22.3	0
3	QPSK	1	8	21.41	21.42	21.38		
3	QPSK	1	14	21.45	21.40	21.36		
3	QPSK	8	0	21.35	21.43	21.31	22.3	0



3	QPSK	8	4	21.21	21.44	21.21		
3	QPSK	8	7	21.20	21.39	21.37		
3	QPSK	15	0	21.27	21.36	21.23		
3	16QAM	1	0	21.19	21.22	21.29	22.3	0
3	16QAM	1	8	21.38	21.28	21.33		
3	16QAM	1	14	21.27	21.26	21.22		
3	16QAM	8	0	21.23	21.28	21.12	22.3	0
3	16QAM	8	4	21.56	21.35	21.26		
3	16QAM	8	7	21.47	21.32	21.13		
3	16QAM	15	0	21.42	21.31	21.30		
3	64QAM	1	0	21.32	21.50	21.33	22.3	0
3	64QAM	1	8	21.28	21.35	21.40		
3	64QAM	1	14	21.30	21.36	21.28		
3	64QAM	8	0	20.80	21.09	20.96	22	0.3
3	64QAM	8	4	21.05	20.82	20.83		
3	64QAM	8	7	20.96	21.12	21.02		
3	64QAM	15	0	21.15	20.92	20.86		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	21.48	21.54	21.40	22.3	0
1.4	QPSK	1	3	21.41	21.34	21.42		
1.4	QPSK	1	5	21.46	21.35	21.36		
1.4	QPSK	3	0	21.33	21.43	21.24		
1.4	QPSK	3	1	21.27	21.46	21.33		
1.4	QPSK	3	3	21.19	21.34	21.31		
1.4	QPSK	6	0	21.26	21.40	21.29	22.3	0
1.4	16QAM	1	0	21.22	21.35	21.24	22.3	0
1.4	16QAM	1	3	21.39	21.24	21.31		
1.4	16QAM	1	5	21.19	21.23	21.27		
1.4	16QAM	3	0	21.23	21.18	21.19		
1.4	16QAM	3	1	21.45	21.23	21.27		
1.4	16QAM	3	3	21.45	21.29	21.18		
1.4	16QAM	6	0	21.44	21.30	21.34	22.3	0
1.4	64QAM	1	0	21.40	21.47	21.31	22.3	0
1.4	64QAM	1	3	21.33	21.32	21.40		
1.4	64QAM	1	5	21.32	21.33	21.30		
1.4	64QAM	3	0	21.32	21.44	21.32		
1.4	64QAM	3	1	21.29	21.34	21.32		
1.4	64QAM	3	3	21.30	21.27	21.26		
1.4	64QAM	6	0	21.13	21.06	20.91	22	0.3



Band 13								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0		21.60		22.6	0
10	QPSK	1	25		21.46			
10	QPSK	1	49		21.52			
10	QPSK	25	0		21.58		22.6	0
10	QPSK	25	12		21.57			
10	QPSK	25	25		21.55			
10	QPSK	50	0		21.59		22.6	0
10	16QAM	1	0		21.48			
10	16QAM	1	25		21.54			
10	16QAM	1	49		21.58		22.2	0.4
10	16QAM	25	0		21.06			
10	16QAM	25	12		20.90			
10	16QAM	25	25		20.99		22.2	0.4
10	16QAM	50	0		20.92			
10	64QAM	1	0		21.04			
10	64QAM	1	25		20.97		22.2	0.4
10	64QAM	1	49		21.03			
10	64QAM	25	0		20.13			
10	64QAM	25	12		19.96		21.2	1.4
10	64QAM	25	25		20.08			
10	64QAM	50	0		19.86			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	21.50	21.57	21.53	22.6	0
5	QPSK	1	12	21.32	21.40	21.28		
5	QPSK	1	24	21.46	21.37	21.40		
5	QPSK	12	0	21.41	21.42	21.39	22.6	0
5	QPSK	12	7	21.51	21.49	21.43		
5	QPSK	12	13	21.42	21.41	21.44		
5	QPSK	25	0	21.54	21.46	21.41	22.6	0
5	16QAM	1	0	21.46	21.33	21.30		
5	16QAM	1	12	21.51	21.48	21.47		
5	16QAM	1	24	21.52	21.46	21.49	22.2	0.4
5	16QAM	12	0	20.87	21.01	20.93		
5	16QAM	12	7	20.65	20.88	20.75		
5	16QAM	12	13	20.72	20.92	20.89	22.2	0.4
5	16QAM	25	0	20.80	20.75	20.86		
5	64QAM	1	0	20.89	20.87	20.87		
5	64QAM	1	12	20.74	20.81	20.67	22.2	0.4
5	64QAM	1	24	20.74	20.94	20.82		
5	64QAM	12	0	20.04	20.03	19.92		
5	64QAM	12	7	19.74	19.84	19.71	21.2	1.4
5	64QAM	12	13	19.83	19.99	19.80		
5	64QAM	25	0	19.75	19.76	19.68		



Band 14								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23330				
Frequency (MHz)				793				
10	QPSK	1	0		22.29		22.9	0
10	QPSK	1	25		22.03			
10	QPSK	1	49		22.05			
10	QPSK	25	0		22.27		22.9	0
10	QPSK	25	12		22.17			
10	QPSK	25	25		22.09			
10	QPSK	50	0		22.21		22.9	0
10	16QAM	1	0		22.18			
10	16QAM	1	25		22.07			
10	16QAM	1	49		22.17		22.9	0
10	16QAM	25	0		22.13			
10	16QAM	25	12		22.25			
10	16QAM	25	25		22.09		22.9	0
10	16QAM	50	0		22.16			
10	64QAM	1	0		22.03			
10	64QAM	1	25		22.16		22.9	0
10	64QAM	1	49		22.21			
10	64QAM	25	0		21.08			
10	64QAM	25	12		21.21		22	0.9
10	64QAM	25	25		21.18			
10	64QAM	50	0		21.25			
Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	0	22.15	22.23	22.18	22.9	0
5	QPSK	1	12	21.86	21.96	21.90		
5	QPSK	1	24	22.01	21.98	22.03		
5	QPSK	12	0	22.18	22.18	22.18	22.9	0
5	QPSK	12	7	22.07	22.13	22.03		
5	QPSK	12	13	22.00	22.03	22.01		
5	QPSK	25	0	22.19	22.05	22.07	22.9	0
5	16QAM	1	0	22.02	22.09	22.02		
5	16QAM	1	12	21.99	21.91	21.95		
5	16QAM	1	24	22.00	22.12	22.13	22.9	0
5	16QAM	12	0	22.03	21.99	21.98		
5	16QAM	12	7	22.07	22.08	22.13		
5	16QAM	12	13	22.00	21.92	21.94	22.9	0
5	16QAM	25	0	22.11	22.04	22.01		
5	64QAM	1	0	21.95	21.93	21.89		
5	64QAM	1	12	22.03	22.05	22.00	22.9	0
5	64QAM	1	24	22.08	22.13	22.05		
5	64QAM	12	0	20.94	21.04	20.95		
5	64QAM	12	7	21.00	21.16	21.00	22	0.9
5	64QAM	12	13	20.83	21.03	20.84		
5	64QAM	25	0	21.01	21.09	21.05		



Band 17								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	21.45	21.57	21.51	22.3	0
10	QPSK	1	25	21.41	21.46	21.37		
10	QPSK	1	49	21.45	21.39	21.45		
10	QPSK	25	0	21.49	21.54	21.41	22.3	0
10	QPSK	25	12	21.33	21.46	21.41		
10	QPSK	25	25	21.25	21.46	21.30		
10	QPSK	50	0	21.38	21.42	21.39	22.3	0
10	16QAM	1	0	21.30	21.42	21.26		
10	16QAM	1	25	21.43	21.34	21.39		
10	16QAM	1	49	21.26	21.37	21.29	22.3	0
10	16QAM	25	0	21.38	21.27	21.24		
10	16QAM	25	12	21.35	21.43	21.28		
10	16QAM	25	25	21.48	21.37	21.22	22.3	0
10	16QAM	50	0	21.51	21.44	21.41		
10	64QAM	1	0	21.32	21.44	21.36		
10	64QAM	1	25	21.31	21.46	21.46	22.3	0
10	64QAM	1	49	21.45	21.36	21.41		
10	64QAM	25	0	20.89	21.14	21.14		
10	64QAM	25	12	21.09	20.93	20.94	22	0.3
10	64QAM	25	25	21.08	21.19	21.01		
10	64QAM	50	0	21.25	21.04	20.95		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	21.43	21.53	21.44	22.3	0
5	QPSK	1	12	21.29	21.47	21.35		
5	QPSK	1	24	21.33	21.28	21.44		
5	QPSK	12	0	21.37	21.48	21.29	22.3	0
5	QPSK	12	7	21.28	21.36	21.27		
5	QPSK	12	13	21.17	21.39	21.31		
5	QPSK	25	0	21.32	21.36	21.37	22.3	0
5	16QAM	1	0	21.17	21.31	21.25		
5	16QAM	1	12	21.38	21.24	21.32		
5	16QAM	1	24	21.19	21.28	21.28	22.3	0
5	16QAM	12	0	21.27	21.25	21.16		
5	16QAM	12	7	21.35	21.31	21.15		
5	16QAM	12	13	21.38	21.25	21.21	22.3	0
5	16QAM	25	0	21.41	21.36	21.31		
5	64QAM	1	0	21.28	21.35	21.30		
5	64QAM	1	12	21.18	21.42	21.44	22.3	0
5	64QAM	1	24	21.41	21.33	21.34		
5	64QAM	12	0	20.89	21.09	21.12		
5	64QAM	12	7	21.03	20.79	20.86	22	0.3
5	64QAM	12	13	21.07	21.18	20.88		
5	64QAM	25	0	21.17	21.04	20.91		



Band 25								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	19.08	19.09	19.05	20.1	0
20	QPSK	1	49	18.91	19.00	18.94		
20	QPSK	1	99	18.96	18.99	18.94		
20	QPSK	50	0	18.93	19.03	18.98	20.1	0
20	QPSK	50	24	18.86	18.98	18.89		
20	QPSK	50	50	18.84	18.89	18.85		
20	QPSK	100	0	18.78	18.96	18.92		
20	16QAM	1	0	18.76	18.84	18.79	20.1	0
20	16QAM	1	49	18.78	18.85	18.77		
20	16QAM	1	99	18.76	18.82	18.93		
20	16QAM	50	0	18.76	18.87	18.78	20.1	0
20	16QAM	50	24	19.01	18.91	18.89		
20	16QAM	50	50	19.04	18.98	18.69		
20	16QAM	100	0	19.06	18.93	18.91		
20	64QAM	1	0	18.91	18.87	18.86	20.1	0
20	64QAM	1	49	18.82	18.88	18.79		
20	64QAM	1	99	18.97	18.81	18.80		
20	64QAM	50	0	18.92	18.78	18.88	20.1	0
20	64QAM	50	24	18.78	18.96	18.78		
20	64QAM	50	50	18.83	18.88	18.79		
20	64QAM	100	0	18.96	18.89	18.84		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	18.82	19.06	18.75	20.1	0
15	QPSK	1	37	18.74	18.89	18.89		
15	QPSK	1	74	18.92	18.91	18.81		
15	QPSK	36	0	18.79	18.94	18.83	20.1	0
15	QPSK	36	20	18.81	18.90	18.71		
15	QPSK	36	39	18.82	18.77	18.81		
15	QPSK	75	0	18.67	18.90	18.74		
15	16QAM	1	0	18.60	18.74	18.63	20.1	0
15	16QAM	1	37	18.75	18.73	18.67		
15	16QAM	1	74	18.62	18.73	18.89		
15	16QAM	36	0	18.62	18.81	18.66	20.1	0
15	16QAM	36	20	18.95	18.76	18.73		
15	16QAM	36	39	18.97	18.81	18.65		
15	16QAM	75	0	18.90	18.86	18.73		
15	64QAM	1	0	18.76	18.70	18.79	20.1	0
15	64QAM	1	37	18.70	18.82	18.64		
15	64QAM	1	74	18.90	18.65	18.72		
15	64QAM	36	0	18.82	18.66	18.85	20.1	0
15	64QAM	36	20	18.68	18.81	18.61		
15	64QAM	36	39	18.80	18.72	18.72		
15	64QAM	75	0	18.79	18.81	18.78		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	18.93	18.94	18.83	20.1	0
10	QPSK	1	25	18.77	18.92	18.83		
10	QPSK	1	49	18.84	18.92	18.78		
10	QPSK	25	0	18.89	18.98	18.85		



10	QPSK	25	12	18.71	18.91	18.82		
10	QPSK	25	25	18.77	18.83	18.81		
10	QPSK	50	0	18.75	18.91	18.80		
10	16QAM	1	0	18.73	18.76	18.76	20.1	0
10	16QAM	1	25	18.63	18.77	18.60		
10	16QAM	1	49	18.62	18.65	18.79		
10	16QAM	25	0	18.73	18.82	18.61	20.1	0
10	16QAM	25	12	18.90	18.85	18.84		
10	16QAM	25	25	18.91	18.93	18.65		
10	16QAM	50	0	18.99	18.85	18.76		
10	64QAM	1	0	18.77	18.71	18.79	20.1	0
10	64QAM	1	25	18.68	18.71	18.70		
10	64QAM	1	49	18.80	18.66	18.75		
10	64QAM	25	0	18.78	18.72	18.70	20.1	0
10	64QAM	25	12	18.65	18.80	18.75		
10	64QAM	25	25	18.73	18.83	18.74		
10	64QAM	50	0	18.85	18.82	18.80		
Channel				26065	26340	26665		
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	18.80	19.00	18.82	20.1	0
5	QPSK	1	12	18.84	18.89	18.82		
5	QPSK	1	24	18.78	18.88	18.86		
5	QPSK	12	0	18.86	18.96	18.81	20.1	0
5	QPSK	12	7	18.81	18.92	18.82		
5	QPSK	12	13	18.71	18.85	18.75		
5	QPSK	25	0	18.70	18.91	18.81		
5	16QAM	1	0	18.65	18.68	18.73		
5	16QAM	1	12	18.63	18.81	18.67	20.1	0
5	16QAM	1	24	18.62	18.76	18.91		
5	16QAM	12	0	18.69	18.73	18.71		
5	16QAM	12	7	18.85	18.75	18.72	20.1	0
5	16QAM	12	13	18.94	18.82	18.55		
5	16QAM	25	0	18.97	18.77	18.83		
5	64QAM	1	0	18.87	18.70	18.76		
5	64QAM	1	12	18.77	18.74	18.75		
5	64QAM	1	24	18.80	18.79	18.65	20.1	0
5	64QAM	12	0	18.77	18.61	18.84		
5	64QAM	12	7	18.74	18.91	18.60		
5	64QAM	12	13	18.74	18.80	18.73		
5	64QAM	25	0	18.91	18.80	18.76		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	18.86	18.96	18.71	20.1	0
3	QPSK	1	8	18.88	18.83	18.85		
3	QPSK	1	14	18.81	18.84	18.81		
3	QPSK	8	0	18.80	18.86	18.87	20.1	0
3	QPSK	8	4	18.81	18.94	18.87		
3	QPSK	8	7	18.71	18.80	18.68		
3	QPSK	15	0	18.67	18.81	18.76		
3	16QAM	1	0	18.58	18.78	18.69		
3	16QAM	1	8	18.69	18.74	18.69	20.1	0
3	16QAM	1	14	18.72	18.66	18.84		
3	16QAM	8	0	18.73	18.79	18.63		
3	16QAM	8	4	18.97	18.81	18.84	20.1	0
3	16QAM	8	7	18.93	18.93	18.55		
3	16QAM	15	0	19.03	18.81	18.81		



3	64QAM	1	0	18.86	18.70	18.70	20.1	0
3	64QAM	1	8	18.64	18.78	18.75		
3	64QAM	1	14	18.90	18.78	18.63		
3	64QAM	8	0	18.77	18.72	18.75	20.1	0
3	64QAM	8	4	18.72	18.91	18.64		
3	64QAM	8	7	18.78	18.84	18.69		
3	64QAM	15	0	18.89	18.85	18.70		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	18.90	18.92	18.82	20.1	0
1.4	QPSK	1	3	18.80	18.91	18.81		
1.4	QPSK	1	5	18.92	18.82	18.88		
1.4	QPSK	3	0	18.81	19.00	18.84		
1.4	QPSK	3	1	18.80	18.91	18.71		
1.4	QPSK	3	3	18.69	18.76	18.76		
1.4	QPSK	6	0	18.60	18.86	18.80	20.1	0
1.4	16QAM	1	0	18.61	18.69	18.65	20.1	0
1.4	16QAM	1	3	18.61	18.75	18.68		
1.4	16QAM	1	5	18.69	18.70	18.80		
1.4	16QAM	3	0	18.67	18.83	18.75		
1.4	16QAM	3	1	18.84	18.81	18.74		
1.4	16QAM	3	3	18.89	18.89	18.52		
1.4	16QAM	6	0	18.95	18.86	18.88	20.1	0
1.4	64QAM	1	0	18.79	18.75	18.71	20.1	0
1.4	64QAM	1	3	18.71	18.72	18.64		
1.4	64QAM	1	5	18.82	18.78	18.75		
1.4	64QAM	3	0	18.81	18.69	18.80		
1.4	64QAM	3	1	18.66	18.89	18.68		
1.4	64QAM	3	3	18.73	18.80	18.67		
1.4	64QAM	6	0	18.82	18.85	18.72	20.1	0



Band 26								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.38	22.47	22.40	23.2	0
15	QPSK	1	37	22.32	22.41	22.38		
15	QPSK	1	74	22.22	22.38	22.28		
15	QPSK	36	0	22.07	22.18	22.02	23.2	0
15	QPSK	36	20	22.10	22.11	22.03		
15	QPSK	36	39	22.01	22.10	21.98		
15	QPSK	75	0	22.08	22.26	22.13	23.2	0
15	16QAM	1	0	22.27	22.27	22.13		
15	16QAM	1	37	22.27	22.34	22.37		
15	16QAM	1	74	22.24	22.28	22.15	22	1.2
15	16QAM	36	0	21.02	21.18	21.09		
15	16QAM	36	20	20.99	21.21	20.96		
15	16QAM	36	39	21.00	21.03	21.01	22	1.2
15	16QAM	75	0	21.07	21.18	21.17		
15	64QAM	1	0	21.18	21.33	21.18		
15	64QAM	1	37	21.07	21.19	21.22	22	1.2
15	64QAM	1	74	21.05	21.12	21.11		
15	64QAM	36	0	20.07	20.16	20.06		
15	64QAM	36	20	20.15	20.14	20.11	21	2.2
15	64QAM	36	39	20.00	20.13	20.01		
15	64QAM	75	0	20.11	20.06	19.98		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.31	22.40	22.35	23.2	0
10	QPSK	1	25	22.24	22.27	22.31		
10	QPSK	1	49	22.10	22.33	22.13		
10	QPSK	25	0	21.95	22.05	21.98	23.2	0
10	QPSK	25	12	22.04	22.02	22.00		
10	QPSK	25	25	21.92	21.97	21.93		
10	QPSK	50	0	22.02	22.19	22.01	23.2	0
10	16QAM	1	0	22.16	22.19	21.97		
10	16QAM	1	25	22.11	22.28	22.32		
10	16QAM	1	49	22.15	22.25	22.08	22	1.2
10	16QAM	25	0	20.87	21.02	20.91		
10	16QAM	25	12	20.95	21.19	20.93		
10	16QAM	25	25	20.88	20.87	20.93	22	1.2
10	16QAM	50	0	21.03	21.05	21.13		
10	64QAM	1	0	21.10	21.21	21.11		
10	64QAM	1	25	20.99	21.04	21.06	22	1.2
10	64QAM	1	49	20.97	21.07	21.03		
10	64QAM	25	0	19.99	20.02	20.02		
10	64QAM	25	12	20.03	20.03	20.05	21	2.2
10	64QAM	25	25	19.93	20.08	19.83		
10	64QAM	50	0	20.01	19.93	19.82		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.23	22.45	22.26	23.2	0
5	QPSK	1	12	22.27	22.39	22.33		
5	QPSK	1	24	22.17	22.23	22.11		
5	QPSK	12	0	22.03	22.11	21.92	23.2	0



5	QPSK	12	7	22.05	21.97	21.94		
5	QPSK	12	13	21.98	21.93	21.85		
5	QPSK	25	0	21.98	22.09	22.04		
5	16QAM	1	0	22.10	22.10	21.99	23.2	0
5	16QAM	1	12	22.24	22.20	22.32		
5	16QAM	1	24	22.20	22.22	22.01		
5	16QAM	12	0	20.90	21.15	20.95	22	1.2
5	16QAM	12	7	20.92	21.05	20.90		
5	16QAM	12	13	20.85	20.90	20.93		
5	16QAM	25	0	20.99	21.14	21.01		
5	64QAM	1	0	21.11	21.18	21.07	22	1.2
5	64QAM	1	12	21.01	21.10	21.14		
5	64QAM	1	24	20.88	21.00	20.96		
5	64QAM	12	0	20.05	20.11	19.89	21	2.2
5	64QAM	12	7	20.05	19.98	20.01		
5	64QAM	12	13	19.95	20.06	19.95		
5	64QAM	25	0	20.08	19.97	19.88		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.22	22.37	22.29	23.2	0
3	QPSK	1	8	22.27	22.35	22.26		
3	QPSK	1	14	22.09	22.21	22.23		
3	QPSK	8	0	21.93	22.04	21.99	23.2	0
3	QPSK	8	4	22.05	22.07	21.96		
3	QPSK	8	7	21.92	22.03	21.81		
3	QPSK	15	0	22.02	22.13	22.03		
3	16QAM	1	0	22.16	22.09	22.05	23.2	0
3	16QAM	1	8	22.20	22.21	22.31		
3	16QAM	1	14	22.11	22.19	22.04		
3	16QAM	8	0	20.95	21.08	20.97	22	1.2
3	16QAM	8	4	20.82	21.05	20.79		
3	16QAM	8	7	20.89	20.94	20.89		
3	16QAM	15	0	21.01	21.05	21.03		
3	64QAM	1	0	21.08	21.22	21.06	22	1.2
3	64QAM	1	8	20.93	21.11	21.04		
3	64QAM	1	14	20.88	20.95	21.06		
3	64QAM	8	0	20.04	20.02	19.93	21	2.2
3	64QAM	8	4	20.08	20.08	19.93		
3	64QAM	8	7	19.90	20.01	19.91		
3	64QAM	15	0	19.94	19.93	19.94		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.26	22.45	22.36	23.2	0
1.4	QPSK	1	3	22.22	22.25	22.26		
1.4	QPSK	1	5	22.06	22.27	22.14		
1.4	QPSK	3	0	22.32	22.41	22.26		
1.4	QPSK	3	1	22.25	22.28	22.33	23.2	0
1.4	QPSK	3	3	22.13	22.25	22.11		
1.4	QPSK	6	0	22.03	22.19	22.01		
1.4	16QAM	1	0	22.23	22.11	22.08	23.2	0
1.4	16QAM	1	3	22.17	22.29	22.26		
1.4	16QAM	1	5	22.07	22.10	22.06		
1.4	16QAM	3	0	21.99	22.13	21.92		
1.4	16QAM	3	1	21.95	22.15	21.80	22	1.2
1.4	16QAM	3	3	21.97	21.86	21.92		
1.4	16QAM	6	0	20.91	21.05	21.00		



1.4	64QAM	1	0	21.09	21.30	21.13	22	1.2
1.4	64QAM	1	3	21.04	21.02	21.10		
1.4	64QAM	1	5	20.99	21.10	21.02		
1.4	64QAM	3	0	20.96	21.08	21.02		
1.4	64QAM	3	1	21.02	21.10	21.04		
1.4	64QAM	3	3	20.89	21.05	20.96		
1.4	64QAM	6	0	19.93	19.97	19.89	21	2.2

Band 66								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572	19.7	0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	18.78	18.95	18.93		
20	QPSK	1	49	18.68	18.83	18.79	19.7	0
20	QPSK	1	99	18.80	18.71	18.72		
20	QPSK	50	0	18.65	18.82	18.67		
20	QPSK	50	24	18.61	18.78	18.73	19.7	0
20	QPSK	50	50	18.64	18.75	18.69		
20	QPSK	100	0	18.66	18.76	18.60		
20	16QAM	1	0	18.60	18.63	18.63	19.7	0
20	16QAM	1	49	18.66	18.75	18.61		
20	16QAM	1	99	18.57	18.70	18.66		
20	16QAM	50	0	18.55	18.76	18.58	19.7	0
20	16QAM	50	24	18.85	18.74	18.68		
20	16QAM	50	50	18.74	18.79	18.65		
20	16QAM	100	0	18.88	18.75	18.81	19.7	0
20	64QAM	1	0	18.60	18.66	18.60		
20	64QAM	1	49	18.63	18.74	18.64		
20	64QAM	1	99	18.69	18.69	18.68	19.7	0
20	64QAM	50	0	18.85	18.72	18.82		
20	64QAM	50	24	18.75	18.63	18.77		
20	64QAM	50	50	18.71	18.68	18.70	19.7	0
20	64QAM	100	0	18.66	18.73	18.61		
Channel				132047	132322	132597		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	18.67	18.84	18.72		
15	QPSK	1	37	18.63	18.67	18.76	19.7	0
15	QPSK	1	74	18.64	18.55	18.62		
15	QPSK	36	0	18.47	18.68	18.51		
15	QPSK	36	20	18.50	18.77	18.68	19.7	0
15	QPSK	36	39	18.57	18.70	18.58		
15	QPSK	75	0	18.51	18.68	18.59		
15	16QAM	1	0	18.47	18.53	18.48	19.7	0
15	16QAM	1	37	18.59	18.60	18.50		
15	16QAM	1	74	18.44	18.53	18.54		
15	16QAM	36	0	18.40	18.63	18.46	19.7	0
15	16QAM	36	20	18.68	18.68	18.59		
15	16QAM	36	39	18.63	18.72	18.63		
15	16QAM	75	0	18.78	18.62	18.65	19.7	0
15	64QAM	1	0	18.51	18.50	18.55		
15	64QAM	1	37	18.59	18.68	18.61		
15	64QAM	1	74	18.66	18.66	18.66	19.7	0
15	64QAM	36	0	18.71	18.69	18.70		
15	64QAM	36	20	18.69	18.57	18.74		
15	64QAM	36	39	18.59	18.50	18.53	19.7	0



15	64QAM	75	0	18.57	18.64	18.46		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	18.74	18.87	18.76	19.7	0
10	QPSK	1	25	18.52	18.69	18.68		
10	QPSK	1	49	18.70	18.65	18.67		
10	QPSK	25	0	18.50	18.70	18.60	19.7	0
10	QPSK	25	12	18.58	18.80	18.55		
10	QPSK	25	25	18.46	18.60	18.59		
10	QPSK	50	0	18.55	18.72	18.60		
10	16QAM	1	0	18.43	18.56	18.50	19.7	0
10	16QAM	1	25	18.59	18.71	18.54		
10	16QAM	1	49	18.48	18.67	18.61		
10	16QAM	25	0	18.38	18.59	18.42	19.7	0
10	16QAM	25	12	18.68	18.64	18.52		
10	16QAM	25	25	18.65	18.64	18.49		
10	16QAM	50	0	18.73	18.65	18.69		
10	64QAM	1	0	18.53	18.60	18.44	19.7	0
10	64QAM	1	25	18.53	18.67	18.46		
10	64QAM	1	49	18.54	18.66	18.53		
10	64QAM	25	0	18.76	18.65	18.74	19.7	0
10	64QAM	25	12	18.60	18.55	18.66		
10	64QAM	25	25	18.61	18.60	18.53		
10	64QAM	50	0	18.55	18.60	18.52		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	18.75	18.79	18.76	19.7	0
5	QPSK	1	12	18.50	18.81	18.64		
5	QPSK	1	24	18.71	18.65	18.63		
5	QPSK	12	0	18.52	18.74	18.54	19.7	0
5	QPSK	12	7	18.43	18.80	18.55		
5	QPSK	12	13	18.60	18.66	18.71		
5	QPSK	25	0	18.56	18.60	18.63		
5	16QAM	1	0	18.47	18.60	18.48	19.7	0
5	16QAM	1	12	18.60	18.68	18.54		
5	16QAM	1	24	18.45	18.57	18.63		
5	16QAM	12	0	18.39	18.59	18.56	19.7	0
5	16QAM	12	7	18.74	18.61	18.64		
5	16QAM	12	13	18.68	18.65	18.51		
5	16QAM	25	0	18.85	18.64	18.70		
5	64QAM	1	0	18.57	18.57	18.55	19.7	0
5	64QAM	1	12	18.52	18.59	18.55		
5	64QAM	1	24	18.65	18.63	18.65		
5	64QAM	12	0	18.72	18.59	18.65	19.7	0
5	64QAM	12	7	18.58	18.57	18.69		
5	64QAM	12	13	18.64	18.65	18.68		
5	64QAM	25	0	18.52	18.61	18.47		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	18.71	18.83	18.73	19.7	0
3	QPSK	1	8	18.51	18.66	18.67		
3	QPSK	1	14	18.71	18.56	18.55		
3	QPSK	8	0	18.49	18.63	18.63	19.7	0
3	QPSK	8	4	18.53	18.78	18.55		
3	QPSK	8	7	18.47	18.60	18.57		
3	QPSK	15	0	18.62	18.59	18.54		



3	16QAM	1	0	18.47	18.56	18.52	19.7	0
3	16QAM	1	8	18.58	18.70	18.49		
3	16QAM	1	14	18.54	18.63	18.54		
3	16QAM	8	0	18.41	18.72	18.50	19.7	0
3	16QAM	8	4	18.79	18.58	18.60		
3	16QAM	8	7	18.58	18.73	18.61		
3	16QAM	15	0	18.80	18.58	18.65	19.7	0
3	64QAM	1	0	18.51	18.53	18.48		
3	64QAM	1	8	18.57	18.65	18.50		
3	64QAM	1	14	18.57	18.65	18.65	19.7	0
3	64QAM	8	0	18.80	18.66	18.67		
3	64QAM	8	4	18.66	18.50	18.65		
3	64QAM	8	7	18.61	18.55	18.64	19.7	0
3	64QAM	8	7	18.61	18.55	18.64		
3	64QAM	15	0	18.59	18.68	18.45		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	18.64	18.92	18.71	19.7	0
1.4	QPSK	1	3	18.63	18.80	18.69		
1.4	QPSK	1	5	18.71	18.56	18.66		
1.4	QPSK	3	0	18.50	18.66	18.50		
1.4	QPSK	3	1	18.43	18.72	18.67		
1.4	QPSK	3	3	18.50	18.59	18.62		
1.4	QPSK	6	0	18.49	18.67	18.64	19.7	0
1.4	16QAM	1	0	18.45	18.45	18.54	19.7	0
1.4	16QAM	1	3	18.55	18.71	18.55		
1.4	16QAM	1	5	18.40	18.59	18.59		
1.4	16QAM	3	0	18.50	18.69	18.55		
1.4	16QAM	3	1	18.75	18.67	18.53		
1.4	16QAM	3	3	18.71	18.64	18.53		
1.4	16QAM	6	0	18.74	18.60	18.74	19.7	0
1.4	64QAM	1	0	18.42	18.63	18.53	19.7	0
1.4	64QAM	1	3	18.46	18.59	18.56		
1.4	64QAM	1	5	18.57	18.64	18.52		
1.4	64QAM	3	0	18.83	18.69	18.68		
1.4	64QAM	3	1	18.72	18.50	18.69		
1.4	64QAM	3	3	18.64	18.55	18.62		
1.4	64QAM	6	0	18.58	18.68	18.45	19.7	0



Band 71								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	683	688		
20	QPSK	1	0	21.37	21.51	21.43	22.6	0
20	QPSK	1	49	21.33	21.44	21.36		
20	QPSK	1	99	21.37	21.41	21.41		
20	QPSK	50	0	21.29	21.46	21.30	22.6	0
20	QPSK	50	24	21.30	21.35	21.42		
20	QPSK	50	50	21.25	21.34	21.25		
20	QPSK	100	0	21.21	21.42	21.29	22.6	0
20	16QAM	1	0	21.23	21.21	21.32		
20	16QAM	1	49	21.34	21.38	21.29		
20	16QAM	1	99	21.26	21.30	21.30	22.6	0
20	16QAM	50	0	21.16	21.32	21.15		
20	16QAM	50	24	21.46	21.23	21.44		
20	16QAM	50	50	21.39	21.47	21.12	22.6	0
20	16QAM	100	0	21.39	21.28	21.43		
20	64QAM	1	0	21.36	21.40	21.21		
20	64QAM	1	49	21.34	21.35	21.30	22.6	0
20	64QAM	1	99	21.27	21.36	21.31		
20	64QAM	50	0	20.82	20.90	20.86		
20	64QAM	50	24	20.68	20.72	20.68	22	0.6
20	64QAM	50	50	20.70	20.69	20.71		
20	64QAM	100	0	20.66	20.83	20.69		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	21.21	21.47	21.29	22.6	0
15	QPSK	1	37	21.22	21.34	21.26		
15	QPSK	1	74	21.31	21.35	21.30		
15	QPSK	36	0	21.14	21.33	21.29	22.6	0
15	QPSK	36	20	21.22	21.42	21.36		
15	QPSK	36	39	21.12	21.20	21.16		
15	QPSK	75	0	21.04	21.33	21.22	22.6	0
15	16QAM	1	0	21.17	21.10	21.25		
15	16QAM	1	37	21.30	21.25	21.16		
15	16QAM	1	74	21.12	21.24	21.20	22.6	0
15	16QAM	36	0	20.98	21.21	21.04		
15	16QAM	36	20	21.38	21.12	21.36		
15	16QAM	36	39	21.32	21.39	21.07	22.6	0
15	16QAM	75	0	21.35	21.24	21.40		
15	64QAM	1	0	21.28	21.32	21.16		
15	64QAM	1	37	21.26	21.24	21.19	22.6	0
15	64QAM	1	74	21.17	21.22	21.13		
15	64QAM	36	0	20.78	20.86	20.77		
15	64QAM	36	20	20.62	20.54	20.61	22	0.6
15	64QAM	36	39	20.63	20.57	20.55		
15	64QAM	75	0	20.56	20.66	20.56		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	21.22	21.35	21.28	22.6	0
10	QPSK	1	25	21.24	21.29	21.26		
10	QPSK	1	49	21.20	21.24	21.28		
10	QPSK	25	0	21.25	21.27	21.17	22.6	0



10	QPSK	25	12	21.24	21.43	21.33		
10	QPSK	25	25	21.21	21.31	21.20		
10	QPSK	50	0	21.18	21.28	21.22		
10	16QAM	1	0	21.17	21.11	21.15	22.6	0
10	16QAM	1	25	21.29	21.23	21.19		
10	16QAM	1	49	21.18	21.28	21.26		
10	16QAM	25	0	21.00	21.17	21.08	22.6	0
10	16QAM	25	12	21.38	21.11	21.39		
10	16QAM	25	25	21.25	21.45	21.00		
10	16QAM	50	0	21.24	21.14	21.41		
10	64QAM	1	0	21.20	21.25	21.08	22.6	0
10	64QAM	1	25	21.23	21.29	21.20		
10	64QAM	1	49	21.20	21.22	21.21		
10	64QAM	25	0	20.73	20.82	20.78	22	0.6
10	64QAM	25	12	20.64	20.59	20.64		
10	64QAM	25	25	20.66	20.67	20.61		
10	64QAM	50	0	20.58	20.79	20.58		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	21.26	21.42	21.35	22.6	0
5	QPSK	1	12	21.27	21.39	21.29		
5	QPSK	1	24	21.31	21.34	21.38		
5	QPSK	12	0	21.20	21.30	21.30	22.6	0
5	QPSK	12	7	21.17	21.34	21.26		
5	QPSK	12	13	21.13	21.27	21.19		
5	QPSK	25	0	21.17	21.27	21.19		
5	16QAM	1	0	21.20	21.16	21.14	22.6	0
5	16QAM	1	12	21.22	21.34	21.23		
5	16QAM	1	24	21.08	21.12	21.13		
5	16QAM	12	0	20.99	21.26	21.01	22.6	0
5	16QAM	12	7	21.37	21.21	21.28		
5	16QAM	12	13	21.37	21.43	20.98		
5	16QAM	25	0	21.33	21.17	21.26		
5	64QAM	1	0	21.19	21.23	21.16	22.6	0
5	64QAM	1	12	21.24	21.31	21.25		
5	64QAM	1	24	21.12	21.33	21.18		
5	64QAM	12	0	20.65	20.75	20.79	22	0.6
5	64QAM	12	7	20.52	20.63	20.61		
5	64QAM	12	13	20.65	20.55	20.60		
5	64QAM	25	0	20.48	20.66	20.51		



Ant2

Band 2 ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100	16.4	0
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	15.26	15.35	15.23	16.4	0
20	QPSK	1	49	15.12	15.17	15.09		
20	QPSK	1	99	15.15	15.20	15.18		
20	QPSK	50	0	15.12	15.21	15.12	16.4	0
20	QPSK	50	24	15.00	15.15	15.06		
20	QPSK	50	50	14.98	15.12	15.00		
20	QPSK	100	0	15.05	15.18	15.15		
20	16QAM	1	0	15.09	15.26	15.19	16.4	0
20	16QAM	1	49	14.99	15.14	15.06		
20	16QAM	1	99	15.17	15.24	15.12		
20	16QAM	50	0	14.99	15.11	15.07	16.4	0
20	16QAM	50	24	14.95	15.05	14.90		
20	16QAM	50	50	15.00	15.08	14.98		
20	16QAM	100	0	15.00	15.03	14.99		
20	64QAM	1	0	15.15	15.23	15.21	16.4	0
20	64QAM	1	49	15.05	15.10	14.94		
20	64QAM	1	99	15.08	15.22	15.05		
20	64QAM	50	0	15.05	15.09	15.05	16.4	0
20	64QAM	50	24	14.98	15.11	15.00		
20	64QAM	50	50	15.00	15.05	14.90		
20	64QAM	100	0	14.92	15.10	15.07		
Channel				18675	18900	19125	16.4	0
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	15.09	15.22	15.19	16.4	0
15	QPSK	1	37	15.07	15.10	14.91		
15	QPSK	1	74	15.00	15.04	15.15		
15	QPSK	36	0	15.09	15.06	15.04	16.4	0
15	QPSK	36	20	14.91	15.02	14.96		
15	QPSK	36	39	14.88	15.07	14.88		
15	QPSK	75	0	15.00	15.14	15.08		
15	16QAM	1	0	15.01	15.08	15.15	16.4	0
15	16QAM	1	37	14.96	15.04	15.01		
15	16QAM	1	74	15.14	15.13	14.96		
15	16QAM	36	0	14.91	15.07	14.95	16.4	0
15	16QAM	36	20	14.90	14.95	14.85		
15	16QAM	36	39	14.95	14.99	14.93		
15	16QAM	75	0	14.88	14.86	14.85		
15	64QAM	1	0	15.12	15.13	15.17	16.4	0
15	64QAM	1	37	15.00	14.94	14.77		
15	64QAM	1	74	14.94	15.07	14.99		
15	64QAM	36	0	14.89	14.99	14.90		
15	64QAM	36	20	14.86	15.06	14.88	16.4	0
15	64QAM	36	39	14.92	14.93	14.78		
15	64QAM	75	0	14.77	15.06	14.97		
Channel				18650	18900	19150	16.4	0
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	15.12	15.25	15.11	16.4	0
10	QPSK	1	25	15.02	15.14	14.94		
10	QPSK	1	49	15.11	15.02	15.06		



10	QPSK	25	0	15.04	15.16	14.95	16.4	0
10	QPSK	25	12	14.93	15.11	14.98		
10	QPSK	25	25	14.85	14.95	14.92		
10	QPSK	50	0	14.92	15.10	15.13	16.4	0
10	16QAM	1	0	14.93	15.15	15.07		
10	16QAM	1	25	14.96	15.02	14.92		
10	16QAM	1	49	15.06	15.20	15.05	16.4	0
10	16QAM	25	0	14.85	15.04	14.95		
10	16QAM	25	12	14.91	14.88	14.83		
10	16QAM	25	25	14.88	14.98	14.85	16.4	0
10	16QAM	50	0	14.87	14.90	14.89		
10	64QAM	1	0	15.06	15.19	15.07		
10	64QAM	1	25	14.89	14.95	14.83	16.4	0
10	64QAM	1	49	14.96	15.07	15.03		
10	64QAM	25	0	14.95	15.02	14.88		
10	64QAM	25	12	14.89	15.01	14.84	16.4	0
10	64QAM	25	25	14.87	14.98	14.83		
10	64QAM	50	0	14.90	15.02	15.00		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	15.06	15.19	15.16	16.4	0
5	QPSK	1	12	14.96	15.12	14.99		
5	QPSK	1	24	15.04	15.06	15.04		
5	QPSK	12	0	14.94	15.06	14.99	16.4	0
5	QPSK	12	7	14.95	15.09	14.97		
5	QPSK	12	13	14.90	15.06	14.89		
5	QPSK	25	0	14.95	15.14	15.10	16.4	0
5	16QAM	1	0	14.98	15.21	15.01		
5	16QAM	1	12	14.87	14.99	14.95		
5	16QAM	1	24	15.11	15.21	14.94	16.4	0
5	16QAM	12	0	14.96	14.98	15.04		
5	16QAM	12	7	14.89	14.98	14.83		
5	16QAM	12	13	14.91	14.97	14.88	16.4	0
5	16QAM	25	0	14.89	15.00	14.87		
5	64QAM	1	0	15.07	15.09	15.10		
5	64QAM	1	12	14.93	15.04	14.79	16.4	0
5	64QAM	1	24	14.94	15.16	14.96		
5	64QAM	12	0	15.00	15.05	14.88		
5	64QAM	12	7	14.90	14.96	14.88	16.4	0
5	64QAM	12	13	14.88	14.93	14.75		
5	64QAM	25	0	14.86	14.95	15.01		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	15.10	15.12	15.12	16.4	0
3	QPSK	1	8	14.99	15.08	14.94		
3	QPSK	1	14	15.08	15.05	15.05		
3	QPSK	8	0	14.96	15.06	15.01	16.4	0
3	QPSK	8	4	14.86	15.13	14.93		
3	QPSK	8	7	14.95	15.02	14.86		
3	QPSK	15	0	14.90	15.15	15.08	16.4	0
3	16QAM	1	0	14.95	15.15	15.09		
3	16QAM	1	8	14.94	14.97	14.96		
3	16QAM	1	14	15.05	15.14	15.01	16.4	0
3	16QAM	8	0	14.91	15.04	15.04		
3	16QAM	8	4	14.86	14.99	14.87		
3	16QAM	8	7	14.85	14.94	14.86	16.4	0



3	16QAM	15	0	14.96	14.94	14.86		
3	64QAM	1	0	15.07	15.09	15.15	16.4	0
3	64QAM	1	8	14.99	15.01	14.85		
3	64QAM	1	14	14.98	15.06	14.95		
3	64QAM	8	0	14.93	14.95	14.98	16.4	0
3	64QAM	8	4	14.83	14.95	14.92		
3	64QAM	8	7	14.85	14.92	14.79		
3	64QAM	15	0	14.82	14.93	14.94		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	15.10	15.18	15.14	16.4	0
1.4	QPSK	1	3	15.06	14.99	15.00		
1.4	QPSK	1	5	15.10	15.02	15.07		
1.4	QPSK	3	0	15.03	15.12	15.05		
1.4	QPSK	3	1	14.85	15.06	14.93		
1.4	QPSK	3	3	14.81	15.09	14.98		
1.4	QPSK	6	0	14.98	15.09	15.08	16.4	0
1.4	16QAM	1	0	14.96	15.11	15.13	16.4	0
1.4	16QAM	1	3	14.86	15.09	14.98		
1.4	16QAM	1	5	15.11	15.17	15.02		
1.4	16QAM	3	0	14.81	15.05	15.04		
1.4	16QAM	3	1	14.81	14.97	14.75		
1.4	16QAM	3	3	14.86	15.05	14.86		
1.4	16QAM	6	0	14.85	14.90	14.89	16.4	0
1.4	64QAM	1	0	15.11	15.17	15.06	16.4	0
1.4	64QAM	1	3	15.00	15.01	14.78		
1.4	64QAM	1	5	15.00	15.16	15.00		
1.4	64QAM	3	0	14.99	14.93	14.98		
1.4	64QAM	3	1	14.84	15.03	14.82		
1.4	64QAM	3	3	14.91	15.03	14.80		
1.4	64QAM	6	0	14.88	14.92	14.97	16.4	0



Band 5 ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	24.21	24.27	24.12	25	0
10	QPSK	1	25	24.01	24.07	24.03		
10	QPSK	1	49	23.92	24.05	23.93		
10	QPSK	25	0	23.22	23.43	23.34	24	1
10	QPSK	25	12	23.20	23.32	23.19		
10	QPSK	25	25	23.27	23.41	23.15		
10	QPSK	50	0	23.36	23.46	23.29	24	1
10	16QAM	1	0	23.36	23.32	23.24		
10	16QAM	1	25	23.37	23.43	23.37		
10	16QAM	1	49	23.38	23.36	23.38	23	2
10	16QAM	25	0	22.18	22.30	22.23		
10	16QAM	25	12	22.28	22.28	22.34		
10	16QAM	25	25	22.24	22.32	22.22	23	2
10	16QAM	50	0	22.22	22.37	22.41		
10	64QAM	1	0	22.13	22.29	22.01		
10	64QAM	1	25	22.05	22.05	22.00	23	2
10	64QAM	1	49	21.97	22.16	22.08		
10	64QAM	25	0	21.13	21.25	21.14		
10	64QAM	25	12	21.31	21.37	21.20	22	3
10	64QAM	25	25	21.40	21.35	21.28		
10	64QAM	50	0	21.27	21.40	21.26		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	24.15	24.10	23.97	25	0
5	QPSK	1	12	23.89	23.93	23.96		
5	QPSK	1	24	23.89	23.93	23.86		
5	QPSK	12	0	23.09	23.31	23.21	24	1
5	QPSK	12	7	23.15	23.15	23.05		
5	QPSK	12	13	23.09	23.26	23.07		
5	QPSK	25	0	23.20	23.32	23.26	24	1
5	16QAM	1	0	23.30	23.16	23.19		
5	16QAM	1	12	23.29	23.33	23.32		
5	16QAM	1	24	23.21	23.27	23.24	23	2
5	16QAM	12	0	22.12	22.18	22.14		
5	16QAM	12	7	22.17	22.12	22.22		
5	16QAM	12	13	22.13	22.25	22.06	23	2
5	16QAM	25	0	22.12	22.20	22.26		
5	64QAM	1	0	22.06	22.26	21.85		
5	64QAM	1	12	22.01	22.01	21.85	23	2
5	64QAM	1	24	21.81	22.04	22.06		
5	64QAM	12	0	21.05	21.08	21.06		
5	64QAM	12	7	21.18	21.34	21.13	22	3
5	64QAM	12	13	21.35	21.25	21.24		
5	64QAM	25	0	21.19	21.27	21.11		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	24.08	24.15	23.96	25	0
3	QPSK	1	8	23.91	24.04	23.90		
3	QPSK	1	14	23.89	23.98	23.90		
3	QPSK	8	0	23.17	23.28	23.18	24	1



3	QPSK	8	4	23.10	23.19	23.13		
3	QPSK	8	7	23.12	23.35	23.11		
3	QPSK	15	0	23.28	23.41	23.17		
3	16QAM	1	0	23.30	23.26	23.18	24	1
3	16QAM	1	8	23.33	23.27	23.29		
3	16QAM	1	14	23.25	23.18	23.27		
3	16QAM	8	0	22.13	22.14	22.14	23	2
3	16QAM	8	4	22.25	22.23	22.26		
3	16QAM	8	7	22.22	22.27	22.07		
3	16QAM	15	0	22.18	22.34	22.29		
3	64QAM	1	0	21.97	22.24	21.87	23	2
3	64QAM	1	8	21.98	21.91	21.85		
3	64QAM	1	14	21.81	22.02	21.91		
3	64QAM	8	0	21.04	21.08	21.11	22	3
3	64QAM	8	4	21.20	21.19	21.06		
3	64QAM	8	7	21.24	21.24	21.22		
3	64QAM	15	0	21.21	21.23	21.10		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	24.10	24.21	24.03	25	0
1.4	QPSK	1	3	23.98	23.97	23.92		
1.4	QPSK	1	5	23.89	23.98	23.83		
1.4	QPSK	3	0	24.05	24.17	24.09		
1.4	QPSK	3	1	23.90	23.94	23.87		
1.4	QPSK	3	3	23.81	23.89	23.84		
1.4	QPSK	6	0	23.16	23.30	23.23	24	1
1.4	16QAM	1	0	23.13	23.24	23.16	24	1
1.4	16QAM	1	3	23.20	23.27	23.10		
1.4	16QAM	1	5	23.21	23.43	23.16		
1.4	16QAM	3	0	23.19	23.20	23.21		
1.4	16QAM	3	1	23.22	23.41	23.34		
1.4	16QAM	3	3	23.24	23.29	23.34		
1.4	16QAM	6	0	22.01	22.23	22.09	23	2
1.4	64QAM	1	0	22.13	22.12	22.19	23	2
1.4	64QAM	1	3	22.08	22.21	22.18		
1.4	64QAM	1	5	22.06	22.22	22.26		
1.4	64QAM	3	0	21.99	22.21	21.90		
1.4	64QAM	3	1	22.11	22.19	22.19		
1.4	64QAM	3	3	22.13	22.24	22.28		
1.4	64QAM	6	0	21.24	21.38	21.20	22	3



Band 7 ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	15.92	16.10	16.03	17	0
20	QPSK	1	49	15.98	16.02	16.06		
20	QPSK	1	99	15.96	16.06	15.98		
20	QPSK	50	0	15.95	16.08	15.94	17	0
20	QPSK	50	24	15.98	16.05	15.93		
20	QPSK	50	50	15.88	16.02	15.84		
20	QPSK	100	0	16.04	16.06	15.96		
20	16QAM	1	0	16.00	16.01	16.03	17	0
20	16QAM	1	49	15.88	16.05	16.00		
20	16QAM	1	99	16.00	15.94	15.98		
20	16QAM	50	0	16.05	16.02	15.99	17	0
20	16QAM	50	24	15.88	16.04	15.92		
20	16QAM	50	50	15.95	16.02	15.89		
20	16QAM	100	0	15.95	16.04	15.92		
20	64QAM	1	0	15.82	15.98	15.81	17	0
20	64QAM	1	49	16.07	16.00	16.05		
20	64QAM	1	99	15.93	16.08	15.91		
20	64QAM	50	0	15.82	15.90	15.88	17	0
20	64QAM	50	24	15.71	15.77	15.71		
20	64QAM	50	50	15.67	15.76	15.61		
20	64QAM	100	0	15.79	15.82	15.72		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	15.78	16.04	16.01	17	0
15	QPSK	1	37	15.85	16.02	16.01		
15	QPSK	1	74	15.82	16.03	15.81		
15	QPSK	36	0	15.87	15.94	15.79	17	0
15	QPSK	36	20	15.94	16.03	15.79		
15	QPSK	36	39	15.83	15.88	15.71		
15	QPSK	75	0	15.93	16.01	15.93		
15	16QAM	1	0	15.87	16.07	15.87	17	0
15	16QAM	1	37	15.73	16.01	15.95		
15	16QAM	1	74	15.89	16.03	16.03		
15	16QAM	36	0	15.87	16.06	15.95	17	0
15	16QAM	36	20	15.82	15.98	15.79		
15	16QAM	36	39	15.79	15.86	15.83		
15	16QAM	75	0	15.80	15.98	15.75		
15	64QAM	1	0	15.75	15.81	15.66	17	0
15	64QAM	1	37	15.91	16.05	15.91		
15	64QAM	1	74	15.89	15.94	15.82		
15	64QAM	36	0	15.69	15.78	15.75	17	0
15	64QAM	36	20	15.65	15.68	15.58		
15	64QAM	36	39	15.58	15.61	15.49		
15	64QAM	75	0	15.65	15.68	15.55		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	15.81	16.07	15.91	17	0
10	QPSK	1	25	15.86	16.02	15.98		
10	QPSK	1	49	15.89	15.92	15.94		
10	QPSK	25	0	15.79	16.01	15.77		



10	QPSK	25	12	15.84	15.89	15.90		
10	QPSK	25	25	15.72	15.96	15.78		
10	QPSK	50	0	15.88	15.91	15.86		
10	16QAM	1	0	15.95	16.03	15.93	17	0
10	16QAM	1	25	15.85	15.90	15.98		
10	16QAM	1	49	15.88	16.00	16.04		
10	16QAM	25	0	15.89	15.95	15.89	17	0
10	16QAM	25	12	15.82	15.99	15.90		
10	16QAM	25	25	15.85	15.89	15.79		
10	16QAM	50	0	15.90	15.91	15.85		
10	64QAM	1	0	15.70	15.86	15.73	17	0
10	64QAM	1	25	16.01	16.02	15.87		
10	64QAM	1	49	15.81	16.01	15.83		
10	64QAM	25	0	15.80	15.83	15.82	17	0
10	64QAM	25	12	15.54	15.61	15.55		
10	64QAM	25	25	15.57	15.69	15.52		
10	64QAM	50	0	15.73	15.79	15.55		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	15.86	15.93	16.00	17	0
5	QPSK	1	12	15.93	16.00	15.89		
5	QPSK	1	24	15.92	15.89	15.96		
5	QPSK	12	0	15.82	16.06	15.80	17	0
5	QPSK	12	7	15.88	15.90	15.78		
5	QPSK	12	13	15.82	15.97	15.74		
5	QPSK	25	0	15.89	15.93	15.82		
5	16QAM	1	0	15.92	15.91	16.00		
5	16QAM	1	12	15.79	15.93	15.98	17	0
5	16QAM	1	24	15.96	16.04	16.08		
5	16QAM	12	0	15.94	16.09	15.85		
5	16QAM	12	7	15.80	15.86	15.75	17	0
5	16QAM	12	13	15.82	15.90	15.85		
5	16QAM	25	0	15.80	15.99	15.76		
5	64QAM	1	0	15.77	15.91	15.79		
5	64QAM	1	12	16.04	15.95	15.90		
5	64QAM	1	24	15.80	15.93	15.81	17	0
5	64QAM	12	0	15.65	15.86	15.77		
5	64QAM	12	7	15.56	15.62	15.65		
5	64QAM	12	13	15.63	15.64	15.57		
5	64QAM	25	0	15.71	15.76	15.57		



Band 66 ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	16.13	16.24	16.22	17.5	0
20	QPSK	1	49	16.07	16.09	16.12		
20	QPSK	1	99	16.09	16.18	16.08		
20	QPSK	50	0	16.11	16.13	16.12	17.5	0
20	QPSK	50	24	15.97	16.04	16.12		
20	QPSK	50	50	16.00	16.09	16.08		
20	QPSK	100	0	15.96	16.17	15.91		
20	16QAM	1	0	16.06	16.18	16.13	17.5	0
20	16QAM	1	49	15.97	16.10	15.95		
20	16QAM	1	99	16.19	16.21	16.14		
20	16QAM	50	0	16.08	16.19	16.12	17.5	0
20	16QAM	50	24	16.07	16.11	16.13		
20	16QAM	50	50	15.91	16.15	15.98		
20	16QAM	100	0	16.04	16.22	16.03		
20	64QAM	1	0	15.93	16.08	16.00	17.5	0
20	64QAM	1	49	16.19	16.22	16.10		
20	64QAM	1	99	15.95	16.20	15.97		
20	64QAM	50	0	16.11	16.21	16.12	17.5	0
20	64QAM	50	24	16.14	15.97	16.13		
20	64QAM	50	50	16.03	16.10	16.17		
20	64QAM	100	0	16.09	16.06	16.21		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	16.08	16.18	16.15	17.5	0
15	QPSK	1	37	15.99	15.98	16.04		
15	QPSK	1	74	16.02	16.11	15.92		
15	QPSK	36	0	15.99	16.10	15.95	17.5	0
15	QPSK	36	20	15.91	15.96	15.96		
15	QPSK	36	39	15.85	16.07	16.17		
15	QPSK	75	0	15.90	16.05	15.75		
15	16QAM	1	0	16.03	16.10	16.02	17.5	0
15	16QAM	1	37	15.81	15.92	15.80		
15	16QAM	1	74	16.13	16.11	16.11		
15	16QAM	36	0	15.97	16.03	16.06	17.5	0
15	16QAM	36	20	15.96	15.99	15.98		
15	16QAM	36	39	15.76	16.05	15.82		
15	16QAM	75	0	15.89	16.08	15.91		
15	64QAM	1	0	15.80	15.91	15.97	17.5	0
15	64QAM	1	37	16.02	16.15	16.04		
15	64QAM	1	74	15.85	16.10	15.83		
15	64QAM	36	0	16.05	16.06	15.94	17.5	0
15	64QAM	36	20	16.01	15.80	16.10		
15	64QAM	36	39	15.86	16.00	16.02		
15	64QAM	75	0	15.97	15.99	16.14		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	16.05	16.20	16.08	17.5	0
10	QPSK	1	25	16.05	16.04	16.04		
10	QPSK	1	49	15.91	16.06	15.96		
10	QPSK	25	0	15.98	16.13	15.96		



10	QPSK	25	12	15.93	15.90	16.01		
10	QPSK	25	25	15.87	16.01	16.06		
10	QPSK	50	0	15.83	16.06	15.80		
10	16QAM	1	0	16.03	16.01	16.02		
10	16QAM	1	25	15.93	15.93	15.90	17.5	0
10	16QAM	1	49	16.11	16.11	16.03		
10	16QAM	25	0	16.02	16.13	16.01		
10	16QAM	25	12	15.94	16.06	15.99	17.5	0
10	16QAM	25	25	15.79	16.08	15.85		
10	16QAM	50	0	15.91	16.05	15.88		
10	64QAM	1	0	15.80	15.97	15.97		
10	64QAM	1	25	16.12	16.19	15.98	17.5	0
10	64QAM	1	49	15.91	16.07	15.82		
10	64QAM	25	0	16.01	16.13	16.00		
10	64QAM	25	12	16.08	15.87	15.96	17.5	0
10	64QAM	25	25	15.88	16.00	16.08		
10	64QAM	50	0	15.96	16.02	16.13		
Channel				131997	132322	132647	Tune-up limit	MPR
Frequency (MHz)				1712.5	1745	1777.5	(dBm)	(dB)
5	QPSK	1	0	16.02	16.12	16.07		
5	QPSK	1	12	15.91	16.06	15.97	17.5	0
5	QPSK	1	24	16.04	16.04	15.90		
5	QPSK	12	0	15.93	16.18	15.96		
5	QPSK	12	7	15.90	15.96	15.96	17.5	0
5	QPSK	12	13	15.86	16.04	16.09		
5	QPSK	25	0	15.88	16.14	15.82		
5	16QAM	1	0	15.93	16.15	15.99		
5	16QAM	1	12	15.93	15.93	15.87	17.5	0
5	16QAM	1	24	16.14	16.10	15.99		
5	16QAM	12	0	15.94	16.11	16.01		
5	16QAM	12	7	15.96	16.01	16.08	17.5	0
5	16QAM	12	13	15.77	16.08	15.93		
5	16QAM	25	0	15.90	16.18	15.91		
5	64QAM	1	0	15.91	15.97	15.88		
5	64QAM	1	12	16.06	16.16	16.04	17.5	0
5	64QAM	1	24	15.82	16.10	15.80		
5	64QAM	12	0	15.94	16.19	16.04		
5	64QAM	12	7	16.10	15.88	16.06	17.5	0
5	64QAM	12	13	15.96	15.93	16.10		
5	64QAM	25	0	15.92	16.03	16.13		
Channel				131987	132322	132657	Tune-up limit	MPR
Frequency (MHz)				1711.5	1745	1778.5	(dBm)	(dB)
3	QPSK	1	0	15.95	16.12	16.14		
3	QPSK	1	8	15.91	16.06	16.03	17.5	0
3	QPSK	1	14	16.02	16.06	16.01		
3	QPSK	8	0	15.92	16.16	16.06		
3	QPSK	8	4	15.88	15.95	16.01	17.5	0
3	QPSK	8	7	15.83	15.97	16.11		
3	QPSK	15	0	15.78	16.04	15.77		
3	16QAM	1	0	15.95	16.09	15.96		
3	16QAM	1	8	15.81	16.00	15.86	17.5	0
3	16QAM	1	14	16.14	16.05	15.98		
3	16QAM	8	0	15.98	16.13	15.95		
3	16QAM	8	4	15.94	16.03	15.99	17.5	0
3	16QAM	8	7	15.75	16.12	15.81		
3	16QAM	15	0	15.96	16.13	15.90		



3	64QAM	1	0	15.80	16.01	15.95	17.5	0
3	64QAM	1	8	16.12	16.05	16.02		
3	64QAM	1	14	15.89	16.06	15.93		
3	64QAM	8	0	16.01	16.06	16.02	17.5	0
3	64QAM	8	4	15.98	15.82	16.05		
3	64QAM	8	7	15.95	16.06	16.07		
3	64QAM	15	0	15.91	15.90	16.04		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	16.09	16.09	16.10	17.5	0
1.4	QPSK	1	3	16.04	15.91	15.97		
1.4	QPSK	1	5	16.05	16.05	16.04		
1.4	QPSK	3	0	15.89	16.10	15.97		
1.4	QPSK	3	1	15.88	15.90	16.09		
1.4	QPSK	3	3	15.94	16.00	16.12		
1.4	QPSK	6	0	15.85	16.12	15.87	17.5	0
1.4	16QAM	1	0	15.96	16.01	15.98	17.5	0
1.4	16QAM	1	3	15.89	16.07	15.92		
1.4	16QAM	1	5	16.04	16.04	16.03		
1.4	16QAM	3	0	15.95	16.09	16.02		
1.4	16QAM	3	1	16.04	16.05	15.98		
1.4	16QAM	3	3	15.80	16.07	15.94		
1.4	16QAM	6	0	15.94	16.06	15.95	17.5	0
1.4	64QAM	1	0	15.78	15.98	15.89	17.5	0
1.4	64QAM	1	3	16.14	16.12	15.96		
1.4	64QAM	1	5	15.80	16.05	15.82		
1.4	64QAM	3	0	15.96	16.15	16.05		
1.4	64QAM	3	1	16.09	15.94	16.09		
1.4	64QAM	3	3	15.92	16.07	16.10		
1.4	64QAM	6	0	16.00	15.93	16.08	17.5	0



Reduced Power Mode for DSI 2

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Band 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	19.03	19.21	19.17	20.2	0
20	QPSK	1	49	19.09	19.08	19.08		
20	QPSK	1	99	19.03	19.08	19.06		
20	QPSK	50	0	19.11	19.14	19.00	20.2	0
20	QPSK	50	24	18.97	19.04	19.06		
20	QPSK	50	50	19.03	18.95	19.07		
20	QPSK	100	0	18.85	19.12	18.95	20.2	0
20	16QAM	1	0	18.77	18.89	18.70		
20	16QAM	1	49	18.94	18.88	18.94		
20	16QAM	1	99	18.75	19.08	18.81	20.2	0
20	16QAM	50	0	18.84	18.90	18.84		
20	16QAM	50	24	19.02	19.05	19.05		
20	16QAM	50	50	18.85	18.98	18.83	20.2	0
20	16QAM	100	0	19.08	18.90	19.07		
20	64QAM	1	0	19.05	19.07	18.98		
20	64QAM	1	49	19.08	18.86	18.96	20.2	0
20	64QAM	1	99	18.80	18.84	18.91		
20	64QAM	50	0	18.81	18.99	18.92		
20	64QAM	50	24	18.92	18.86	18.88	20.2	0
20	64QAM	50	50	18.99	19.04	19.05		
20	64QAM	100	0	18.91	19.13	18.90		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	18.95	19.20	19.18	20.2	0
15	QPSK	1	37	19.09	19.05	19.10		
15	QPSK	1	74	18.99	19.09	19.09		
15	QPSK	36	0	19.05	19.16	18.96	20.2	0
15	QPSK	36	20	18.88	19.07	18.96		
15	QPSK	36	39	19.06	18.94	19.07		
15	QPSK	75	0	18.82	19.05	18.87	20.2	0
15	16QAM	1	0	18.72	18.79	18.67		
15	16QAM	1	37	18.86	18.84	18.96		
15	16QAM	1	74	18.75	19.02	18.82	20.2	0
15	16QAM	36	0	18.79	18.84	18.78		
15	16QAM	36	20	19.00	18.96	18.95		
15	16QAM	36	39	18.75	18.98	18.82	20.2	0
15	16QAM	75	0	18.99	18.80	19.10		
15	64QAM	1	0	18.98	19.09	18.95		
15	64QAM	1	37	19.00	18.76	18.86	20.2	0
15	64QAM	1	74	18.69	18.88	18.86		
15	64QAM	36	0	18.76	19.02	18.90		
15	64QAM	36	20	18.91	18.88	18.82	20.2	0
15	64QAM	36	39	18.91	18.99	19.02		
15	64QAM	75	0	18.85	19.05	18.85		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	18.96	19.16	19.11	20.2	0
10	QPSK	1	25	19.08	19.00	18.98		
10	QPSK	1	49	18.94	19.03	19.01		



10	QPSK	25	0	18.99	19.03	18.95	20.2	0
10	QPSK	25	12	18.86	19.01	18.91		
10	QPSK	25	25	18.98	18.88	18.93		
10	QPSK	50	0	18.83	19.01	18.95	20.2	0
10	16QAM	1	0	18.73	18.82	18.67		
10	16QAM	1	25	18.90	18.73	18.92		
10	16QAM	1	49	18.69	19.05	18.73	20.2	0
10	16QAM	25	0	18.84	18.79	18.72		
10	16QAM	25	12	18.93	18.99	18.92		
10	16QAM	25	25	18.73	18.90	18.79	20.2	0
10	16QAM	50	0	18.95	18.86	19.00		
10	64QAM	1	0	18.92	19.07	18.97		
10	64QAM	1	25	18.93	18.79	18.84	20.2	0
10	64QAM	1	49	18.71	18.76	18.79		
10	64QAM	25	0	18.78	18.90	18.82		
10	64QAM	25	12	18.79	18.81	18.80	20.2	0
10	64QAM	25	25	18.97	18.97	18.94		
10	64QAM	50	0	18.91	19.04	18.80		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	18.92	19.12	19.08	20.2	0
5	QPSK	1	12	19.06	19.04	19.01		
5	QPSK	1	24	19.03	18.94	18.95		
5	QPSK	12	0	19.07	19.02	19.00	20.2	0
5	QPSK	12	7	18.85	19.04	18.97		
5	QPSK	12	13	18.99	18.89	19.03		
5	QPSK	25	0	18.71	19.03	18.80	20.2	0
5	16QAM	1	0	18.77	18.88	18.64		
5	16QAM	1	12	18.83	18.85	18.90		
5	16QAM	1	24	18.60	19.06	18.75	20.2	0
5	16QAM	12	0	18.70	18.82	18.80		
5	16QAM	12	7	18.96	19.02	18.91		
5	16QAM	12	13	18.84	18.87	18.78	20.2	0
5	16QAM	25	0	18.98	18.83	19.05		
5	64QAM	1	0	18.95	18.92	18.92		
5	64QAM	1	12	18.99	18.78	18.92	20.2	0
5	64QAM	1	24	18.69	18.75	18.76		
5	64QAM	12	0	18.66	18.91	18.81		
5	64QAM	12	7	18.78	18.76	18.84	20.2	0
5	64QAM	12	13	18.84	18.94	18.93		
5	64QAM	25	0	18.86	19.02	18.87		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	18.90	19.13	19.13	20.2	0
3	QPSK	1	8	19.01	18.96	19.04		
3	QPSK	1	14	18.96	19.01	19.05		
3	QPSK	8	0	19.06	19.06	18.93	20.2	0
3	QPSK	8	4	18.91	19.00	18.93		
3	QPSK	8	7	18.92	18.88	18.97		
3	QPSK	15	0	18.75	19.04	18.87	20.2	0
3	16QAM	1	0	18.65	18.82	18.58		
3	16QAM	1	8	18.94	18.88	18.95		
3	16QAM	1	14	18.74	19.02	18.71	20.2	0
3	16QAM	8	0	18.76	18.85	18.80		
3	16QAM	8	4	19.00	19.00	19.06		
3	16QAM	8	7	18.84	18.90	18.81	20.2	0



3	16QAM	15	0	18.95	18.80	19.06		
3	64QAM	1	0	18.99	19.00	18.87	20.2	0
3	64QAM	1	8	18.99	18.85	18.84		
3	64QAM	1	14	18.77	18.73	18.87		
3	64QAM	8	0	18.69	18.87	18.93	20.2	0
3	64QAM	8	4	18.78	18.78	18.79		
3	64QAM	8	7	18.95	19.01	18.92		
3	64QAM	15	0	18.81	18.99	18.85		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	18.92	19.10	19.04	20.2	0
1.4	QPSK	1	3	19.00	18.98	19.05		
1.4	QPSK	1	5	18.90	19.04	19.04		
1.4	QPSK	3	0	19.06	19.06	18.93		
1.4	QPSK	3	1	18.92	18.95	19.01		
1.4	QPSK	3	3	18.94	18.87	18.96		
1.4	QPSK	6	0	18.76	19.11	18.82	20.2	0
1.4	16QAM	1	0	18.64	18.88	18.62	20.2	0
1.4	16QAM	1	3	18.83	18.82	18.93		
1.4	16QAM	1	5	18.64	19.02	18.70		
1.4	16QAM	3	0	18.73	18.88	18.69		
1.4	16QAM	3	1	18.91	18.96	18.99		
1.4	16QAM	3	3	18.83	18.84	18.69		
1.4	16QAM	6	0	19.02	18.76	18.99	20.2	0
1.4	64QAM	1	0	18.91	18.99	18.82	20.2	0
1.4	64QAM	1	3	19.05	18.84	18.91		
1.4	64QAM	1	5	18.72	18.82	18.77		
1.4	64QAM	3	0	18.75	18.93	18.82		
1.4	64QAM	3	1	18.91	18.81	18.85		
1.4	64QAM	3	3	18.93	18.92	18.96		
1.4	64QAM	6	0	18.79	19.09	18.86	20.2	0



Band 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	19.62	19.70	19.59	20.4	0
20	QPSK	1	49	19.58	19.67	19.67		
20	QPSK	1	99	19.56	19.61	19.48		
20	QPSK	50	0	19.54	19.61	19.50	20.4	0
20	QPSK	50	24	19.48	19.57	19.56		
20	QPSK	50	50	19.43	19.53	19.49		
20	QPSK	100	0	19.44	19.60	19.47		
20	16QAM	1	0	19.41	19.42	19.49	20.4	0
20	16QAM	1	49	19.40	19.59	19.48		
20	16QAM	1	99	19.50	19.57	19.50		
20	16QAM	50	0	19.34	19.43	19.54	20.4	0
20	16QAM	50	24	19.60	19.59	19.59		
20	16QAM	50	50	19.53	19.58	19.35		
20	16QAM	100	0	19.67	19.54	19.55		
20	64QAM	1	0	19.53	19.68	19.54	20.4	0
20	64QAM	1	49	19.56	19.44	19.44		
20	64QAM	1	99	19.56	19.62	19.47		
20	64QAM	50	0	19.49	19.50	19.40	20.4	0
20	64QAM	50	24	19.40	19.41	19.55		
20	64QAM	50	50	19.55	19.49	19.47		
20	64QAM	100	0	19.47	19.52	19.39		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	19.54	19.66	19.46	20.4	0
15	QPSK	1	37	19.42	19.63	19.50		
15	QPSK	1	74	19.43	19.49	19.35		
15	QPSK	36	0	19.48	19.44	19.39	20.4	0
15	QPSK	36	20	19.35	19.39	19.45		
15	QPSK	36	39	19.27	19.48	19.33		
15	QPSK	75	0	19.36	19.51	19.41		
15	16QAM	1	0	19.34	19.36	19.42	20.4	0
15	16QAM	1	37	19.29	19.54	19.33		
15	16QAM	1	74	19.47	19.46	19.42		
15	16QAM	36	0	19.30	19.32	19.50	20.4	0
15	16QAM	36	20	19.53	19.50	19.41		
15	16QAM	36	39	19.44	19.41	19.21		
15	16QAM	75	0	19.54	19.45	19.48		
15	64QAM	1	0	19.42	19.60	19.36	20.4	0
15	64QAM	1	37	19.49	19.34	19.41		
15	64QAM	1	74	19.40	19.56	19.33		
15	64QAM	36	0	19.45	19.33	19.32	20.4	0
15	64QAM	36	20	19.27	19.27	19.50		
15	64QAM	36	39	19.44	19.42	19.35		
15	64QAM	75	0	19.42	19.40	19.25		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	19.46	19.62	19.44	20.4	0
10	QPSK	1	25	19.47	19.56	19.65		
10	QPSK	1	49	19.38	19.54	19.34		
10	QPSK	25	0	19.43	19.56	19.34		



10	QPSK	25	12	19.37	19.44	19.46		
10	QPSK	25	25	19.37	19.45	19.38		
10	QPSK	50	0	19.28	19.44	19.38		
10	16QAM	1	0	19.34	19.26	19.43	20.4	0
10	16QAM	1	25	19.23	19.56	19.44		
10	16QAM	1	49	19.38	19.51	19.39		
10	16QAM	25	0	19.30	19.41	19.37	20.4	0
10	16QAM	25	12	19.51	19.46	19.48		
10	16QAM	25	25	19.42	19.49	19.22		
10	16QAM	50	0	19.54	19.43	19.38		
10	64QAM	1	0	19.43	19.65	19.42	20.4	0
10	64QAM	1	25	19.43	19.34	19.41		
10	64QAM	1	49	19.44	19.58	19.37		
10	64QAM	25	0	19.45	19.46	19.36	20.4	0
10	64QAM	25	12	19.27	19.27	19.46		
10	64QAM	25	25	19.40	19.46	19.30		
10	64QAM	50	0	19.40	19.49	19.28		
Channel				19975	20175	20375		
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	19.59	19.54	19.57	20.4	0
5	QPSK	1	12	19.45	19.53	19.51		
5	QPSK	1	24	19.45	19.51	19.35		
5	QPSK	12	0	19.49	19.58	19.36	20.4	0
5	QPSK	12	7	19.42	19.54	19.50		
5	QPSK	12	13	19.29	19.50	19.39		
5	QPSK	25	0	19.41	19.56	19.43		
5	16QAM	1	0	19.35	19.32	19.40		
5	16QAM	1	12	19.24	19.44	19.45	20.4	0
5	16QAM	1	24	19.42	19.46	19.35		
5	16QAM	12	0	19.21	19.30	19.41		
5	16QAM	12	7	19.54	19.41	19.44	20.4	0
5	16QAM	12	13	19.44	19.51	19.31		
5	16QAM	25	0	19.51	19.37	19.40		
5	64QAM	1	0	19.37	19.52	19.37		
5	64QAM	1	12	19.54	19.26	19.29		
5	64QAM	1	24	19.49	19.57	19.36	20.4	0
5	64QAM	12	0	19.45	19.39	19.30		
5	64QAM	12	7	19.35	19.35	19.42		
5	64QAM	12	13	19.42	19.35	19.37		
5	64QAM	25	0	19.30	19.43	19.27		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	19.51	19.59	19.47	20.4	0
3	QPSK	1	8	19.43	19.62	19.52		
3	QPSK	1	14	19.43	19.57	19.38		
3	QPSK	8	0	19.49	19.58	19.39	20.4	0
3	QPSK	8	4	19.30	19.48	19.39		
3	QPSK	8	7	19.32	19.40	19.41		
3	QPSK	15	0	19.40	19.53	19.34		
3	16QAM	1	0	19.33	19.40	19.44		
3	16QAM	1	8	19.32	19.49	19.45	20.4	0
3	16QAM	1	14	19.43	19.39	19.42		
3	16QAM	8	0	19.18	19.36	19.43		
3	16QAM	8	4	19.55	19.51	19.49	20.4	0
3	16QAM	8	7	19.49	19.56	19.20		
3	16QAM	15	0	19.60	19.44	19.44		



3	64QAM	1	0	19.45	19.62	19.49	20.4	0
3	64QAM	1	8	19.51	19.30	19.33		
3	64QAM	1	14	19.52	19.60	19.34		
3	64QAM	8	0	19.45	19.34	19.28	20.4	0
3	64QAM	8	4	19.37	19.35	19.45		
3	64QAM	8	7	19.44	19.42	19.40		
3	64QAM	15	0	19.40	19.38	19.33		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	19.50	19.63	19.55	20.4	0
1.4	QPSK	1	3	19.51	19.63	19.57		
1.4	QPSK	1	5	19.53	19.44	19.46		
1.4	QPSK	3	0	19.38	19.57	19.34		
1.4	QPSK	3	1	19.37	19.43	19.51		
1.4	QPSK	3	3	19.40	19.48	19.36		
1.4	QPSK	6	0	19.38	19.45	19.35	20.4	0
1.4	16QAM	1	0	19.28	19.27	19.45	20.4	0
1.4	16QAM	1	3	19.34	19.53	19.37		
1.4	16QAM	1	5	19.38	19.44	19.33		
1.4	16QAM	3	0	19.29	19.36	19.45		
1.4	16QAM	3	1	19.49	19.54	19.49		
1.4	16QAM	3	3	19.36	19.46	19.31		
1.4	16QAM	6	0	19.55	19.40	19.46	20.4	0
1.4	64QAM	1	0	19.36	19.54	19.51	20.4	0
1.4	64QAM	1	3	19.52	19.37	19.40		
1.4	64QAM	1	5	19.46	19.58	19.40		
1.4	64QAM	3	0	19.45	19.48	19.24		
1.4	64QAM	3	1	19.31	19.34	19.49		
1.4	64QAM	3	3	19.48	19.39	19.31		
1.4	64QAM	6	0	19.29	19.36	19.33	20.4	0



Band 5								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	24.06	24.21	24.09	25	0
10	QPSK	1	25	23.94	24.08	23.94		
10	QPSK	1	49	24.07	24.12	24.09		
10	QPSK	25	0	23.11	23.29	23.03	24	1
10	QPSK	25	12	23.03	23.20	23.03		
10	QPSK	25	25	23.11	23.20	23.25		
10	QPSK	50	0	23.25	23.32	23.30	24	1
10	16QAM	1	0	23.10	23.33	23.13		
10	16QAM	1	25	23.12	23.15	23.03		
10	16QAM	1	49	23.19	23.15	23.08	23	2
10	16QAM	25	0	22.13	22.24	22.04		
10	16QAM	25	12	22.10	22.03	22.06		
10	16QAM	25	25	22.21	22.31	22.06	23	2
10	16QAM	50	0	22.33	22.26	22.16		
10	64QAM	1	0	22.24	22.26	22.22		
10	64QAM	1	25	22.00	22.12	22.13	23	2
10	64QAM	1	49	22.08	22.21	22.03		
10	64QAM	25	0	21.16	21.25	21.10		
10	64QAM	25	12	21.12	21.08	20.94	22	3
10	64QAM	25	25	21.12	21.18	21.20		
10	64QAM	50	0	21.36	21.33	21.19		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	24.02	24.18	23.95	25	0
5	QPSK	1	12	23.92	23.97	23.82		
5	QPSK	1	24	23.93	24.04	24.02		
5	QPSK	12	0	23.08	23.20	22.88	24	1
5	QPSK	12	7	22.95	23.13	22.90		
5	QPSK	12	13	23.00	23.16	23.11		
5	QPSK	25	0	23.22	23.15	23.15	24	1
5	16QAM	1	0	23.06	23.15	23.04		
5	16QAM	1	12	23.08	23.00	22.96		
5	16QAM	1	24	23.02	23.07	22.92	23	2
5	16QAM	12	0	22.01	22.19	21.89		
5	16QAM	12	7	22.05	21.89	21.91		
5	16QAM	12	13	22.09	22.17	21.95	23	2
5	16QAM	25	0	22.27	22.10	22.07		
5	64QAM	1	0	22.22	22.23	22.04		
5	64QAM	1	12	21.95	22.09	22.11	23	2
5	64QAM	1	24	22.01	22.03	21.87		
5	64QAM	12	0	21.01	21.12	21.08		
5	64QAM	12	7	20.94	20.93	20.83	22	3
5	64QAM	12	13	21.02	21.02	21.09		
5	64QAM	25	0	21.30	21.22	21.08		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	24.02	24.09	23.95	25	0
3	QPSK	1	8	23.77	23.94	23.85		
3	QPSK	1	14	23.92	23.98	23.92		
3	QPSK	8	0	23.00	23.15	22.91	24	1



3	QPSK	8	4	22.92	23.04	22.99		
3	QPSK	8	7	23.03	23.04	23.22		
3	QPSK	15	0	23.22	23.24	23.15		
3	16QAM	1	0	23.07	23.17	22.97	24	1
3	16QAM	1	8	23.01	23.06	22.92		
3	16QAM	1	14	23.09	23.11	23.04		
3	16QAM	8	0	22.05	22.09	22.01	23	2
3	16QAM	8	4	21.99	22.01	21.90		
3	16QAM	8	7	22.11	22.26	21.98		
3	16QAM	15	0	22.28	22.22	22.03		
3	64QAM	1	0	22.10	22.23	22.14	23	2
3	64QAM	1	8	21.97	21.97	21.97		
3	64QAM	1	14	21.92	22.07	21.95		
3	64QAM	8	0	21.00	21.15	20.99	22	3
3	64QAM	8	4	20.96	20.96	20.88		
3	64QAM	8	7	21.06	21.10	21.17		
3	64QAM	15	0	21.32	21.19	21.16		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	23.91	24.17	23.92	25	0
1.4	QPSK	1	3	23.81	24.04	23.90		
1.4	QPSK	1	5	23.96	24.07	23.95		
1.4	QPSK	3	0	24.02	24.20	23.85		
1.4	QPSK	3	1	23.95	24.04	23.85		
1.4	QPSK	3	3	24.08	24.06	24.16		
1.4	QPSK	6	0	23.12	23.16	23.14	24	1
1.4	16QAM	1	0	22.98	23.16	23.00	24	1
1.4	16QAM	1	3	23.06	23.01	23.01		
1.4	16QAM	1	5	23.15	23.01	22.97		
1.4	16QAM	3	0	22.98	23.20	22.95		
1.4	16QAM	3	1	22.98	22.95	23.01		
1.4	16QAM	3	3	23.07	23.17	22.95		
1.4	16QAM	6	0	22.22	22.16	22.00	23	2
1.4	64QAM	1	0	22.07	22.12	22.07	23	2
1.4	64QAM	1	3	21.91	22.08	22.09		
1.4	64QAM	1	5	22.05	22.14	22.01		
1.4	64QAM	3	0	22.13	22.20	21.96		
1.4	64QAM	3	1	21.97	22.02	21.85		
1.4	64QAM	3	3	22.07	22.05	22.04		
1.4	64QAM	6	0	21.33	21.23	21.12	22	3



Band 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	21.01	21.13	20.99	21.4	0
20	QPSK	1	49	20.97	21.10	21.11		
20	QPSK	1	99	21.01	20.94	20.98		
20	QPSK	50	0	20.98	21.10	21.06	21.4	0
20	QPSK	50	24	20.84	21.00	21.06		
20	QPSK	50	50	20.82	20.95	20.93		
20	QPSK	100	0	20.92	21.09	20.92	21.4	0
20	16QAM	1	0	20.85	20.85	20.73		
20	16QAM	1	49	20.83	20.99	20.95		
20	16QAM	1	99	20.78	20.96	20.89	21.4	0
20	16QAM	50	0	20.79	20.80	20.90		
20	16QAM	50	24	21.06	20.86	20.87		
20	16QAM	50	50	20.95	21.03	20.75	21.4	0
20	16QAM	100	0	21.04	20.94	21.08		
20	64QAM	1	0	20.93	21.04	20.90		
20	64QAM	1	49	20.95	20.83	20.85	21.4	0
20	64QAM	1	99	20.91	20.95	20.82		
20	64QAM	50	0	20.45	20.57	20.51		
20	64QAM	50	24	20.40	20.54	20.46	21	0.4
20	64QAM	50	50	20.28	20.45	20.28		
20	64QAM	100	0	20.41	20.47	20.31		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	20.86	21.06	20.96	21.4	0
15	QPSK	1	37	20.92	21.02	20.93		
15	QPSK	1	74	20.96	20.84	20.83		
15	QPSK	36	0	20.90	20.98	20.95	21.4	0
15	QPSK	36	20	20.76	20.98	21.02		
15	QPSK	36	39	20.74	20.80	20.76		
15	QPSK	75	0	20.78	20.95	20.83	21.4	0
15	16QAM	1	0	20.69	20.82	20.68		
15	16QAM	1	37	20.68	20.93	20.80		
15	16QAM	1	74	20.73	20.79	20.72	21.4	0
15	16QAM	36	0	20.61	20.71	20.80		
15	16QAM	36	20	21.04	20.80	20.71		
15	16QAM	36	39	20.83	20.91	20.70	21.4	0
15	16QAM	75	0	20.86	20.80	20.92		
15	64QAM	1	0	20.82	20.96	20.83		
15	64QAM	1	37	20.86	20.76	20.82	21.4	0
15	64QAM	1	74	20.78	20.78	20.75		
15	64QAM	36	0	20.36	20.46	20.44		
15	64QAM	36	20	20.37	20.42	20.41	21	0.4
15	64QAM	36	39	20.21	20.30	20.17		
15	64QAM	75	0	20.33	20.40	20.15		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	20.89	21.00	20.85	21.4	0
10	QPSK	1	25	20.83	20.98	21.05		
10	QPSK	1	49	20.84	20.82	20.87		
10	QPSK	25	0	20.83	20.99	20.95	21.4	0



10	QPSK	25	12	20.72	20.83	20.89		
10	QPSK	25	25	20.75	20.91	20.87		
10	QPSK	50	0	20.86	20.99	20.88		
10	16QAM	1	0	20.81	20.77	20.62	21.4	0
10	16QAM	1	25	20.66	20.96	20.88		
10	16QAM	1	49	20.64	20.84	20.73		
10	16QAM	25	0	20.64	20.63	20.75	21.4	0
10	16QAM	25	12	20.98	20.83	20.70		
10	16QAM	25	25	20.77	20.90	20.70		
10	16QAM	50	0	20.87	20.88	21.01		
10	64QAM	1	0	20.89	20.88	20.88	21.4	0
10	64QAM	1	25	20.84	20.66	20.73		
10	64QAM	1	49	20.85	20.92	20.69		
10	64QAM	25	0	20.28	20.52	20.40	21	0.4
10	64QAM	25	12	20.25	20.49	20.37		
10	64QAM	25	25	20.17	20.31	20.19		
10	64QAM	50	0	20.29	20.34	20.13		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	20.98	21.07	20.90	21.4	0
5	QPSK	1	12	20.80	20.93	21.00		
5	QPSK	1	24	20.83	20.86	20.95		
5	QPSK	12	0	20.91	20.99	21.02	21.4	0
5	QPSK	12	7	20.80	20.96	20.92		
5	QPSK	12	13	20.72	20.85	20.88		
5	QPSK	25	0	20.80	21.00	20.84		
5	16QAM	1	0	20.72	20.78	20.62	21.4	0
5	16QAM	1	12	20.68	20.90	20.88		
5	16QAM	1	24	20.67	20.81	20.86		
5	16QAM	12	0	20.61	20.71	20.87	21.4	0
5	16QAM	12	7	20.99	20.74	20.69		
5	16QAM	12	13	20.84	20.87	20.60		
5	16QAM	25	0	20.92	20.77	21.00		
5	64QAM	1	0	20.83	20.96	20.80	21.4	0
5	64QAM	1	12	20.81	20.80	20.76		
5	64QAM	1	24	20.74	20.80	20.66		
5	64QAM	12	0	20.28	20.41	20.47	21	0.4
5	64QAM	12	7	20.36	20.51	20.44		
5	64QAM	12	13	20.19	20.32	20.19		
5	64QAM	25	0	20.28	20.30	20.19		



Band 12								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	24.05	24.13	24.00	25	0
10	QPSK	1	25	23.95	23.87	23.89		
10	QPSK	1	49	23.98	24.10	23.95		
10	QPSK	25	0	23.01	23.15	22.92	24	1
10	QPSK	25	12	22.91	23.11	22.87		
10	QPSK	25	25	22.98	23.03	23.12		
10	QPSK	50	0	23.01	23.19	23.04	24	1
10	16QAM	1	0	22.99	23.17	23.12		
10	16QAM	1	25	23.05	23.04	23.01		
10	16QAM	1	49	23.08	22.98	22.94	23	2
10	16QAM	25	0	22.02	22.21	22.04		
10	16QAM	25	12	22.01	21.96	22.01		
10	16QAM	25	25	22.12	22.14	22.05	23	2
10	16QAM	50	0	22.12	22.22	22.21		
10	64QAM	1	0	22.06	21.99	22.08		
10	64QAM	1	25	21.83	22.03	21.86	23	2
10	64QAM	1	49	22.08	22.07	22.10		
10	64QAM	25	0	20.91	21.17	21.12		
10	64QAM	25	12	21.10	20.99	20.93	22	3
10	64QAM	25	25	21.12	21.18	21.06		
10	64QAM	50	0	21.23	21.10	21.01		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	23.94	23.95	23.88	25	0
5	QPSK	1	12	23.93	23.73	23.81		
5	QPSK	1	24	23.80	23.99	23.78		
5	QPSK	12	0	22.93	23.11	22.81	24	1
5	QPSK	12	7	22.82	22.96	22.84		
5	QPSK	12	13	22.95	22.97	23.10		
5	QPSK	25	0	22.87	23.13	22.97	24	1
5	16QAM	1	0	22.94	23.06	23.10		
5	16QAM	1	12	22.97	22.91	22.89		
5	16QAM	1	24	22.99	22.87	22.92	23	2
5	16QAM	12	0	21.92	22.14	21.98		
5	16QAM	12	7	21.84	21.78	21.91		
5	16QAM	12	13	22.03	22.09	22.01	23	2
5	16QAM	25	0	22.09	22.06	22.08		
5	64QAM	1	0	21.95	21.86	21.97		
5	64QAM	1	12	21.70	21.92	21.73	23	2
5	64QAM	1	24	21.95	21.92	21.95		
5	64QAM	12	0	20.84	21.12	21.08		
5	64QAM	12	7	20.93	20.89	20.84	22	3
5	64QAM	12	13	21.01	21.12	20.99		
5	64QAM	25	0	21.15	21.05	20.88		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	23.88	24.01	23.95	25	0
3	QPSK	1	8	23.92	23.70	23.73		
3	QPSK	1	14	23.83	23.93	23.83		
3	QPSK	8	0	22.97	23.02	22.86	24	1



3	QPSK	8	4	22.83	22.97	22.80		
3	QPSK	8	7	22.90	23.01	22.96		
3	QPSK	15	0	22.86	23.02	22.88		
3	16QAM	1	0	22.84	23.12	23.07	24	1
3	16QAM	1	8	22.89	22.95	22.83		
3	16QAM	1	14	22.91	22.90	22.81		
3	16QAM	8	0	22.00	22.17	21.95	23	2
3	16QAM	8	4	21.93	21.92	21.89		
3	16QAM	8	7	22.02	22.11	22.02		
3	16QAM	15	0	21.99	22.05	22.13		
3	64QAM	1	0	21.88	21.88	21.95	23	2
3	64QAM	1	8	21.73	21.85	21.78		
3	64QAM	1	14	22.02	21.99	22.06		
3	64QAM	8	0	20.80	21.09	20.96	22	3
3	64QAM	8	4	21.05	20.82	20.83		
3	64QAM	8	7	20.96	21.12	21.02		
3	64QAM	15	0	21.15	20.92	20.86		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	24.03	24.02	23.85	25	0
1.4	QPSK	1	3	23.87	23.79	23.82		
1.4	QPSK	1	5	23.87	24.03	23.78		
1.4	QPSK	3	0	23.82	24.07	23.80		
1.4	QPSK	3	1	23.70	23.91	23.78		
1.4	QPSK	3	3	23.89	23.84	24.00		
1.4	QPSK	6	0	22.87	23.02	23.00	24	1
1.4	16QAM	1	0	22.89	23.11	23.05	24	1
1.4	16QAM	1	3	22.87	23.01	22.96		
1.4	16QAM	1	5	22.96	22.88	22.82		
1.4	16QAM	3	0	22.82	23.06	22.90		
1.4	16QAM	3	1	22.93	22.79	22.85		
1.4	16QAM	3	3	23.04	22.95	22.84		
1.4	16QAM	6	0	22.04	22.14	22.18	23	2
1.4	64QAM	1	0	21.93	21.86	22.04	23	2
1.4	64QAM	1	3	21.67	22.01	21.75		
1.4	64QAM	1	5	21.98	21.92	21.98		
1.4	64QAM	3	0	21.73	22.06	22.05		
1.4	64QAM	3	1	21.90	21.91	21.77		
1.4	64QAM	3	3	22.01	22.04	21.92		
1.4	64QAM	6	0	21.13	21.06	20.91	22	3



Band 13								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230				
Frequency (MHz)				782				
10	QPSK	1	0		22.99		24	0
10	QPSK	1	25		22.87			
10	QPSK	1	49		22.80			
10	QPSK	25	0		22.12		23	1
10	QPSK	25	12		22.03			
10	QPSK	25	25		21.98			
10	QPSK	50	0		21.96		23	1
10	16QAM	1	0		22.15			
10	16QAM	1	25		22.07			
10	16QAM	1	49		22.14		22	2
10	16QAM	25	0		21.06			
10	16QAM	25	12		20.90			
10	16QAM	25	25		20.99		22	2
10	16QAM	50	0		20.92			
10	64QAM	1	0		21.04			
10	64QAM	1	25		20.97		22	2
10	64QAM	1	49		21.03			
10	64QAM	25	0		20.13			
10	64QAM	25	12		19.96		21	3
10	64QAM	25	25		20.08			
10	64QAM	50	0		19.86			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5		
5	QPSK	1	0	22.83	22.85	22.74	24	0
5	QPSK	1	12	22.55	22.78	22.62		
5	QPSK	1	24	22.64	22.76	22.52		
5	QPSK	12	0	22.01	22.08	21.88	23	1
5	QPSK	12	7	21.90	21.96	21.80		
5	QPSK	12	13	21.82	21.85	21.81		
5	QPSK	25	0	21.75	21.85	21.78	23	1
5	16QAM	1	0	22.01	22.07	21.94		
5	16QAM	1	12	21.85	21.96	21.77		
5	16QAM	1	24	21.99	21.96	21.88	22	2
5	16QAM	12	0	20.87	21.01	20.93		
5	16QAM	12	7	20.65	20.88	20.75		
5	16QAM	12	13	20.72	20.92	20.89	22	2
5	16QAM	25	0	20.80	20.75	20.86		
5	64QAM	1	0	20.89	20.87	20.87		
5	64QAM	1	12	20.74	20.81	20.67	22	2
5	64QAM	1	24	20.74	20.94	20.82		
5	64QAM	12	0	20.04	20.03	19.92		
5	64QAM	12	7	19.74	19.84	19.71	21	3
5	64QAM	12	13	19.83	19.99	19.80		
5	64QAM	25	0	19.75	19.76	19.68		



Band 14								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23330				
Frequency (MHz)				793				
10	QPSK	1	0		23.33		24.5	0
10	QPSK	1	25		23.30			
10	QPSK	1	49		23.26			
10	QPSK	25	0		23.19		24	0.5
10	QPSK	25	12		23.10			
10	QPSK	25	25		23.06			
10	QPSK	50	0		23.14		24	0.5
10	16QAM	1	0		23.25			
10	16QAM	1	25		23.29			
10	16QAM	1	49		23.28		23	1.5
10	16QAM	25	0		22.05			
10	16QAM	25	12		22.12			
10	16QAM	25	25		22.27		23	1.5
10	16QAM	50	0		22.21			
10	64QAM	1	0		22.33			
10	64QAM	1	25		22.30		23	1.5
10	64QAM	1	49		22.23			
10	64QAM	25	0		21.08			
10	64QAM	25	12		21.21		22	2.5
10	64QAM	25	25		21.18			
10	64QAM	50	0		21.25			
Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5		
5	QPSK	1	0	23.21	23.27	23.23	24.5	0
5	QPSK	1	12	23.18	23.21	23.21		
5	QPSK	1	24	23.13	23.20	23.19		
5	QPSK	12	0	23.03	23.03	22.97	24	0.5
5	QPSK	12	7	22.91	23.00	22.83		
5	QPSK	12	13	22.72	23.04	22.90		
5	QPSK	25	0	22.89	23.07	22.87	24	0.5
5	16QAM	1	0	23.19	23.31	23.19		
5	16QAM	1	12	23.25	23.27	23.16		
5	16QAM	1	24	23.21	23.19	23.25	23	1.5
5	16QAM	12	0	21.77	21.88	21.84		
5	16QAM	12	7	21.85	22.03	21.84		
5	16QAM	12	13	22.17	22.17	22.14	23	1.5
5	16QAM	25	0	22.07	22.07	22.02		
5	64QAM	1	0	22.17	22.16	22.12		
5	64QAM	1	12	22.10	22.26	22.22	23	1.5
5	64QAM	1	24	21.93	22.16	21.95		
5	64QAM	12	0	20.94	21.04	20.95		
5	64QAM	12	7	21.00	21.16	21.00	22	2.5
5	64QAM	12	13	20.83	21.03	20.84		
5	64QAM	25	0	21.01	21.09	21.05		



Band 17								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	23.93	24.06	23.97	25	0
10	QPSK	1	25	23.91	23.88	23.97		
10	QPSK	1	49	23.96	23.94	23.92		
10	QPSK	25	0	22.90	23.11	23.03	24	1
10	QPSK	25	12	22.80	23.04	22.94		
10	QPSK	25	25	22.97	22.99	23.10		
10	QPSK	50	0	22.96	23.09	23.05	24	1
10	16QAM	1	0	22.87	23.18	23.12		
10	16QAM	1	25	22.82	22.98	22.93		
10	16QAM	1	49	22.87	22.89	22.93	23	2
10	16QAM	25	0	22.11	22.13	22.04		
10	16QAM	25	12	22.03	21.99	21.96		
10	16QAM	25	25	22.13	22.06	22.04	23	2
10	16QAM	50	0	22.19	22.13	22.15		
10	64QAM	1	0	22.05	22.07	22.10		
10	64QAM	1	25	21.95	22.04	21.93	23	2
10	64QAM	1	49	22.09	22.07	22.03		
10	64QAM	25	0	20.95	21.04	21.00		
10	64QAM	25	12	20.93	20.93	20.91	22	3
10	64QAM	25	25	20.95	20.98	21.11		
10	64QAM	50	0	21.20	21.23	21.13		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	23.90	23.90	23.79	25	0
5	QPSK	1	12	23.85	23.73	23.90		
5	QPSK	1	24	23.85	23.85	23.76		
5	QPSK	12	0	22.73	23.06	23.01	24	1
5	QPSK	12	7	22.71	22.90	22.81		
5	QPSK	12	13	22.81	22.89	23.03		
5	QPSK	25	0	22.81	22.91	23.02	24	1
5	16QAM	1	0	22.78	23.07	22.96		
5	16QAM	1	12	22.70	22.81	22.88		
5	16QAM	1	24	22.76	22.71	22.86	23	2
5	16QAM	12	0	22.03	21.98	21.96		
5	16QAM	12	7	21.92	21.87	21.81		
5	16QAM	12	13	22.02	21.96	21.86	23	2
5	16QAM	25	0	22.13	22.07	22.06		
5	64QAM	1	0	21.88	21.98	22.05		
5	64QAM	1	12	21.87	21.94	21.79	23	2
5	64QAM	1	24	22.04	21.94	21.95		
5	64QAM	12	0	20.83	20.98	20.92		
5	64QAM	12	7	20.84	20.80	20.84	22	3
5	64QAM	12	13	20.90	20.83	21.02		
5	64QAM	25	0	21.03	21.19	20.99		



Band 25								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	19.13	19.26	19.23	20.2	0
20	QPSK	1	49	19.17	19.16	19.08		
20	QPSK	1	99	19.09	19.18	19.09		
20	QPSK	50	0	19.14	19.21	19.07	20.2	0
20	QPSK	50	24	19.11	19.16	19.12		
20	QPSK	50	50	19.03	18.97	19.07		
20	QPSK	100	0	18.96	19.15	19.10		
20	16QAM	1	0	18.87	18.98	18.84	20.2	0
20	16QAM	1	49	18.96	19.00	18.96		
20	16QAM	1	99	18.86	19.15	18.96		
20	16QAM	50	0	18.87	19.00	18.92	20.2	0
20	16QAM	50	24	19.17	19.09	19.10		
20	16QAM	50	50	18.94	19.04	18.86		
20	16QAM	100	0	19.09	19.02	19.13		
20	64QAM	1	0	19.09	19.10	19.08	20.2	0
20	64QAM	1	49	19.08	19.00	18.99		
20	64QAM	1	99	18.92	18.98	18.94		
20	64QAM	50	0	18.93	19.10	18.98	20.2	0
20	64QAM	50	24	18.98	18.90	18.92		
20	64QAM	50	50	19.10	19.07	19.05		
20	64QAM	100	0	19.00	19.13	18.90		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	19.10	19.21	19.12	20.2	0
15	QPSK	1	37	19.14	18.98	18.90		
15	QPSK	1	74	19.02	19.01	18.96		
15	QPSK	36	0	19.07	19.08	18.96	20.2	0
15	QPSK	36	20	19.01	19.06	19.08		
15	QPSK	36	39	18.89	18.82	18.97		
15	QPSK	75	0	18.81	19.12	19.03		
15	16QAM	1	0	18.80	18.81	18.72	20.2	0
15	16QAM	1	37	18.82	18.93	18.84		
15	16QAM	1	74	18.70	19.09	18.86		
15	16QAM	36	0	18.79	18.96	18.85	20.2	0
15	16QAM	36	20	19.04	19.04	19.05		
15	16QAM	36	39	18.91	19.01	18.82		
15	16QAM	75	0	18.99	18.87	19.00		
15	64QAM	1	0	19.05	19.01	18.92	20.2	0
15	64QAM	1	37	18.98	18.93	18.87		
15	64QAM	1	74	18.77	18.89	18.91		
15	64QAM	36	0	18.89	19.05	18.90	20.2	0
15	64QAM	36	20	18.90	18.84	18.78		
15	64QAM	36	39	19.06	19.03	18.87		
15	64QAM	75	0	18.96	19.03	18.78		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	19.07	19.18	19.19	20.2	0
10	QPSK	1	25	19.05	19.09	18.93		
10	QPSK	1	49	18.91	19.10	18.99		
10	QPSK	25	0	19.03	19.12	18.98		



10	QPSK	25	12	18.99	19.06	19.08		
10	QPSK	25	25	18.94	18.89	18.91		
10	QPSK	50	0	18.85	19.01	19.00		
10	16QAM	1	0	18.73	18.88	18.71	20.2	0
10	16QAM	1	25	18.80	18.94	18.85		
10	16QAM	1	49	18.76	19.05	18.88		
10	16QAM	25	0	18.83	18.90	18.89	20.2	0
10	16QAM	25	12	19.11	19.02	19.05		
10	16QAM	25	25	18.89	18.90	18.70		
10	16QAM	50	0	19.00	18.92	18.99		
10	64QAM	1	0	18.94	18.94	19.06	20.2	0
10	64QAM	1	25	18.99	18.92	18.83		
10	64QAM	1	49	18.88	18.83	18.91		
10	64QAM	25	0	18.81	18.97	18.86	20.2	0
10	64QAM	25	12	18.89	18.87	18.75		
10	64QAM	25	25	19.03	19.04	19.02		
10	64QAM	50	0	18.97	18.99	18.87		
Channel				26065	26340	26665		
Frequency (MHz)				1852.5	1880	1912.5	(dBm)	(dB)
5	QPSK	1	0	18.97	19.09	19.17	20.2	0
5	QPSK	1	12	19.03	19.03	19.03		
5	QPSK	1	24	18.93	19.15	18.93		
5	QPSK	12	0	18.97	19.18	18.94	20.2	0
5	QPSK	12	7	19.06	18.99	18.97		
5	QPSK	12	13	18.91	18.86	19.04		
5	QPSK	25	0	18.85	19.09	19.03		
5	16QAM	1	0	18.71	18.87	18.82		
5	16QAM	1	12	18.92	18.91	18.79	20.2	0
5	16QAM	1	24	18.71	19.09	18.83		
5	16QAM	12	0	18.80	18.97	18.81		
5	16QAM	12	7	19.00	19.05	19.02	20.2	0
5	16QAM	12	13	18.79	18.98	18.82		
5	16QAM	25	0	19.07	18.97	19.08		
5	64QAM	1	0	18.98	19.02	18.96		
5	64QAM	1	12	19.05	18.95	18.87		
5	64QAM	1	24	18.90	18.82	18.87	20.2	0
5	64QAM	12	0	18.77	19.07	18.84		
5	64QAM	12	7	18.91	18.73	18.89		
5	64QAM	12	13	19.02	19.00	18.95		
5	64QAM	25	0	18.94	19.06	18.87		
Channel				26055	26340	26675	Tune-up limit	MPR
Frequency (MHz)				1851.5	1880	1913.5	(dBm)	(dB)
3	QPSK	1	0	19.03	19.23	19.16	20.2	0
3	QPSK	1	8	19.11	19.02	19.04		
3	QPSK	1	14	18.95	19.08	18.94		
3	QPSK	8	0	19.07	19.06	18.95	20.2	0
3	QPSK	8	4	19.05	19.12	18.95		
3	QPSK	8	7	18.96	18.80	18.92		
3	QPSK	15	0	18.82	19.09	18.96		
3	16QAM	1	0	18.76	18.87	18.76		
3	16QAM	1	8	18.86	18.89	18.91	20.2	0
3	16QAM	1	14	18.84	19.06	18.90		
3	16QAM	8	0	18.84	18.89	18.81		
3	16QAM	8	4	19.11	18.95	18.96	20.2	0
3	16QAM	8	7	18.78	18.99	18.77		
3	16QAM	15	0	18.92	18.98	18.97		



3	64QAM	1	0	19.05	18.98	18.98	20.2	0
3	64QAM	1	8	19.00	18.93	18.88		
3	64QAM	1	14	18.78	18.91	18.83		
3	64QAM	8	0	18.91	19.02	18.94	20.2	0
3	64QAM	8	4	18.95	18.86	18.90		
3	64QAM	8	7	19.00	19.02	18.98		
3	64QAM	15	0	18.87	19.09	18.83		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	18.96	19.15	19.12	20.2	0
1.4	QPSK	1	3	19.09	19.13	19.03		
1.4	QPSK	1	5	18.96	19.04	18.97		
1.4	QPSK	3	0	19.03	19.07	18.95		
1.4	QPSK	3	1	18.97	19.07	19.01		
1.4	QPSK	3	3	18.95	18.90	18.90		
1.4	QPSK	6	0	18.93	19.07	19.06	20.2	0
1.4	16QAM	1	0	18.70	18.87	18.78	20.2	0
1.4	16QAM	1	3	18.85	18.97	18.87		
1.4	16QAM	1	5	18.74	19.07	18.82		
1.4	16QAM	3	0	18.82	18.97	18.82		
1.4	16QAM	3	1	19.14	19.05	18.94		
1.4	16QAM	3	3	18.82	18.97	18.76		
1.4	16QAM	6	0	19.03	18.91	19.01	20.2	0
1.4	64QAM	1	0	18.91	18.97	18.99	20.2	0
1.4	64QAM	1	3	18.95	18.85	18.83		
1.4	64QAM	1	5	18.89	18.94	18.86		
1.4	64QAM	3	0	18.79	19.07	18.95		
1.4	64QAM	3	1	18.92	18.74	18.81		
1.4	64QAM	3	3	19.01	18.94	19.02		
1.4	64QAM	6	0	18.86	19.06	18.83	20.2	0



Band 26								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	23.21	23.23	23.01	24	0
15	QPSK	1	37	23.03	22.97	22.91		
15	QPSK	1	74	23.05	23.11	23.05		
15	QPSK	36	0	22.07	22.18	22.02	23	1
15	QPSK	36	20	22.10	22.11	22.03		
15	QPSK	36	39	22.01	22.10	21.98		
15	QPSK	75	0	22.08	22.26	22.13	23	1
15	16QAM	1	0	22.27	22.27	22.13		
15	16QAM	1	37	22.27	22.34	22.37		
15	16QAM	1	74	22.24	22.28	22.15	22	2
15	16QAM	36	0	21.02	21.18	21.09		
15	16QAM	36	20	20.99	21.21	20.96		
15	16QAM	36	39	21.00	21.03	21.01	22	2
15	16QAM	75	0	21.07	21.18	21.17		
15	64QAM	1	0	21.18	21.33	21.18		
15	64QAM	1	37	21.07	21.19	21.22	22	2
15	64QAM	1	74	21.05	21.12	21.11		
15	64QAM	36	0	20.07	20.16	20.06		
15	64QAM	36	20	20.15	20.14	20.11	21	3
15	64QAM	36	39	20.00	20.13	20.01		
15	64QAM	75	0	20.11	20.06	19.98		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	23.17	23.10	22.95	24	0
10	QPSK	1	25	23.00	22.88	22.78		
10	QPSK	1	49	23.01	22.94	22.97		
10	QPSK	25	0	21.95	22.05	21.98	23	1
10	QPSK	25	12	22.04	22.02	22.00		
10	QPSK	25	25	21.92	21.97	21.93		
10	QPSK	50	0	22.02	22.19	22.01	23	1
10	16QAM	1	0	22.16	22.19	21.97		
10	16QAM	1	25	22.11	22.28	22.32		
10	16QAM	1	49	22.15	22.25	22.08	22	2
10	16QAM	25	0	20.87	21.02	20.91		
10	16QAM	25	12	20.95	21.19	20.93		
10	16QAM	25	25	20.88	20.87	20.93	22	2
10	16QAM	50	0	21.03	21.05	21.13		
10	64QAM	1	0	21.10	21.21	21.11		
10	64QAM	1	25	20.99	21.04	21.06	22	2
10	64QAM	1	49	20.97	21.07	21.03		
10	64QAM	25	0	19.99	20.02	20.02		
10	64QAM	25	12	20.03	20.03	20.05	21	3
10	64QAM	25	25	19.93	20.08	19.83		
10	64QAM	50	0	20.01	19.93	19.82		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	23.07	23.07	22.97	24	0
5	QPSK	1	12	22.95	22.93	22.88		
5	QPSK	1	24	23.02	22.99	22.89		
5	QPSK	12	0	22.03	22.11	21.92	23	1



5	QPSK	12	7	22.05	21.97	21.94		
5	QPSK	12	13	21.98	21.93	21.85		
5	QPSK	25	0	21.98	22.09	22.04		
5	16QAM	1	0	22.10	22.10	21.99	23	1
5	16QAM	1	12	22.24	22.20	22.32		
5	16QAM	1	24	22.20	22.22	22.01		
5	16QAM	12	0	20.90	21.15	20.95	22	2
5	16QAM	12	7	20.92	21.05	20.90		
5	16QAM	12	13	20.85	20.90	20.93		
5	16QAM	25	0	20.99	21.14	21.01		
5	64QAM	1	0	21.11	21.18	21.07	22	2
5	64QAM	1	12	21.01	21.10	21.14		
5	64QAM	1	24	20.88	21.00	20.96		
5	64QAM	12	0	20.05	20.11	19.89	21	3
5	64QAM	12	7	20.05	19.98	20.01		
5	64QAM	12	13	19.95	20.06	19.95		
5	64QAM	25	0	20.08	19.97	19.88		
Channel				26705	26865	27025		
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	23.16	23.12	22.84	24	0
3	QPSK	1	8	22.96	22.92	22.79		
3	QPSK	1	14	22.96	22.97	22.96		
3	QPSK	8	0	21.93	22.04	21.99	23	1
3	QPSK	8	4	22.05	22.07	21.96		
3	QPSK	8	7	21.92	22.03	21.81		
3	QPSK	15	0	22.02	22.13	22.03		
3	16QAM	1	0	22.16	22.09	22.05		
3	16QAM	1	8	22.20	22.21	22.31	23	1
3	16QAM	1	14	22.11	22.19	22.04		
3	16QAM	8	0	20.95	21.08	20.97	22	2
3	16QAM	8	4	20.82	21.05	20.79		
3	16QAM	8	7	20.89	20.94	20.89		
3	16QAM	15	0	21.01	21.05	21.03		
3	64QAM	1	0	21.08	21.22	21.06		
3	64QAM	1	8	20.93	21.11	21.04		
3	64QAM	1	14	20.88	20.95	21.06	21	3
3	64QAM	8	0	20.04	20.02	19.93		
3	64QAM	8	4	20.08	20.08	19.93		
3	64QAM	8	7	19.90	20.01	19.91		
3	64QAM	15	0	19.94	19.93	19.94		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	23.05	23.16	22.85	24	0
1.4	QPSK	1	3	22.94	22.94	22.76		
1.4	QPSK	1	5	22.99	22.98	22.91		
1.4	QPSK	3	0	22.96	23.08	22.95		
1.4	QPSK	3	1	23.03	23.00	22.90		
1.4	QPSK	3	3	22.89	23.00	22.90		
1.4	QPSK	6	0	22.03	22.19	22.01	23	1
1.4	16QAM	1	0	22.23	22.11	22.08	23	1
1.4	16QAM	1	3	22.17	22.29	22.26		
1.4	16QAM	1	5	22.07	22.10	22.06		
1.4	16QAM	3	0	21.99	22.13	21.92		
1.4	16QAM	3	1	21.95	22.15	21.80		
1.4	16QAM	3	3	21.97	21.86	21.92		
1.4	16QAM	6	0	20.91	21.05	21.00		



1.4	64QAM	1	0	21.09	21.30	21.13	22	2
1.4	64QAM	1	3	21.04	21.02	21.10		
1.4	64QAM	1	5	20.99	21.10	21.02		
1.4	64QAM	3	0	20.96	21.08	21.02		
1.4	64QAM	3	1	21.02	21.10	21.04		
1.4	64QAM	3	3	20.89	21.05	20.96		
1.4	64QAM	6	0	19.93	19.97	19.89	21	3

Band 66								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572	20.4	0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	19.62	19.84	19.57		
20	QPSK	1	49	19.77	19.81	19.69	20.4	0
20	QPSK	1	99	19.66	19.72	19.71		
20	QPSK	50	0	19.59	19.80	19.73		
20	QPSK	50	24	19.63	19.61	19.75	20.4	0
20	QPSK	50	50	19.61	19.59	19.65		
20	QPSK	100	0	19.53	19.78	19.63		
20	16QAM	1	0	19.60	19.62	19.57	20.4	0
20	16QAM	1	49	19.56	19.74	19.54		
20	16QAM	1	99	19.49	19.69	19.62		
20	16QAM	50	0	19.56	19.62	19.62	20.4	0
20	16QAM	50	24	19.63	19.71	19.67		
20	16QAM	50	50	19.69	19.72	19.50		
20	16QAM	100	0	19.76	19.68	19.75	20.4	0
20	64QAM	1	0	19.67	19.65	19.67		
20	64QAM	1	49	19.73	19.53	19.68		
20	64QAM	1	99	19.56	19.62	19.50	20.4	0
20	64QAM	50	0	19.54	19.64	19.52		
20	64QAM	50	24	19.57	19.46	19.52		
20	64QAM	50	50	19.68	19.66	19.55	20.4	0
20	64QAM	100	0	19.65	19.74	19.46		
Channel				132047	132322	132597		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	19.58	19.79	19.50		
15	QPSK	1	37	19.69	19.73	19.52	20.4	0
15	QPSK	1	74	19.58	19.67	19.60		
15	QPSK	36	0	19.49	19.75	19.56		
15	QPSK	36	20	19.58	19.47	19.67	20.4	0
15	QPSK	36	39	19.57	19.48	19.61		
15	QPSK	75	0	19.49	19.64	19.58		
15	16QAM	1	0	19.46	19.44	19.39	20.4	0
15	16QAM	1	37	19.38	19.63	19.42		
15	16QAM	1	74	19.36	19.57	19.54		
15	16QAM	36	0	19.48	19.51	19.54	20.4	0
15	16QAM	36	20	19.51	19.64	19.57		
15	16QAM	36	39	19.63	19.57	19.40		
15	16QAM	75	0	19.60	19.61	19.67	20.4	0
15	64QAM	1	0	19.60	19.59	19.60		
15	64QAM	1	37	19.63	19.49	19.55		
15	64QAM	1	74	19.40	19.54	19.44	20.4	0
15	64QAM	36	0	19.46	19.53	19.47		
15	64QAM	36	20	19.40	19.42	19.36		
15	64QAM	36	39	19.58	19.50	19.45	20.4	0
15	64QAM	36	0	19.46	19.53	19.47		
15	64QAM	36	20	19.40	19.42	19.36		
15	64QAM	36	39	19.58	19.50	19.45	20.4	0
15	64QAM	36	0	19.46	19.53	19.47		
15	64QAM	36	20	19.40	19.42	19.36		
15	64QAM	36	39	19.58	19.50	19.45	20.4	0
15	64QAM	36	0	19.46	19.53	19.47		
15	64QAM	36	20	19.40	19.42	19.36		
15	64QAM	36	39	19.58	19.50	19.45	20.4	0
15	64QAM	36	0	19.46	19.53	19.47		
15	64QAM	36	20	19.40	19.42	19.36		



15	64QAM	75	0	19.57	19.58	19.34		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	19.44	19.73	19.54	20.4	0
10	QPSK	1	25	19.73	19.77	19.58		
10	QPSK	1	49	19.58	19.56	19.60		
10	QPSK	25	0	19.56	19.71	19.69	20.4	0
10	QPSK	25	12	19.51	19.54	19.72		
10	QPSK	25	25	19.57	19.55	19.55		
10	QPSK	50	0	19.50	19.73	19.47		
10	16QAM	1	0	19.54	19.48	19.47	20.4	0
10	16QAM	1	25	19.41	19.70	19.51		
10	16QAM	1	49	19.35	19.60	19.55		
10	16QAM	25	0	19.54	19.46	19.58	20.4	0
10	16QAM	25	12	19.60	19.65	19.59		
10	16QAM	25	25	19.59	19.56	19.39		
10	16QAM	50	0	19.65	19.52	19.73		
10	64QAM	1	0	19.62	19.51	19.53	20.4	0
10	64QAM	1	25	19.64	19.42	19.54		
10	64QAM	1	49	19.48	19.47	19.44		
10	64QAM	25	0	19.46	19.60	19.41	20.4	0
10	64QAM	25	12	19.47	19.39	19.38		
10	64QAM	25	25	19.52	19.55	19.45		
10	64QAM	50	0	19.58	19.59	19.36		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	19.52	19.81	19.45	20.4	0
5	QPSK	1	12	19.60	19.69	19.63		
5	QPSK	1	24	19.54	19.59	19.57		
5	QPSK	12	0	19.56	19.71	19.59	20.4	0
5	QPSK	12	7	19.56	19.55	19.66		
5	QPSK	12	13	19.47	19.44	19.54		
5	QPSK	25	0	19.43	19.69	19.49		
5	16QAM	1	0	19.50	19.54	19.51	20.4	0
5	16QAM	1	12	19.42	19.62	19.42		
5	16QAM	1	24	19.44	19.53	19.59		
5	16QAM	12	0	19.46	19.54	19.53	20.4	0
5	16QAM	12	7	19.53	19.62	19.54		
5	16QAM	12	13	19.65	19.57	19.38		
5	16QAM	25	0	19.68	19.60	19.67		
5	64QAM	1	0	19.52	19.59	19.57	20.4	0
5	64QAM	1	12	19.59	19.49	19.63		
5	64QAM	1	24	19.54	19.46	19.36		
5	64QAM	12	0	19.40	19.51	19.38	20.4	0
5	64QAM	12	7	19.54	19.43	19.36		
5	64QAM	12	13	19.59	19.49	19.48		
5	64QAM	25	0	19.54	19.61	19.32		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	19.47	19.70	19.49	20.4	0
3	QPSK	1	8	19.74	19.66	19.57		
3	QPSK	1	14	19.61	19.58	19.66		
3	QPSK	8	0	19.41	19.73	19.55	20.4	0
3	QPSK	8	4	19.58	19.53	19.68		
3	QPSK	8	7	19.50	19.45	19.54		
3	QPSK	15	0	19.39	19.62	19.51		



3	16QAM	1	0	19.57	19.49	19.41	20.4	0
3	16QAM	1	8	19.47	19.69	19.40		
3	16QAM	1	14	19.32	19.63	19.58		
3	16QAM	8	0	19.43	19.59	19.58	20.4	0
3	16QAM	8	4	19.52	19.66	19.62		
3	16QAM	8	7	19.59	19.60	19.45		
3	16QAM	15	0	19.69	19.51	19.62	20.4	0
3	64QAM	1	0	19.63	19.57	19.58		
3	64QAM	1	8	19.57	19.50	19.59		
3	64QAM	1	14	19.47	19.57	19.35	20.4	0
3	64QAM	8	0	19.45	19.58	19.42		
3	64QAM	8	4	19.44	19.28	19.45		
3	64QAM	8	7	19.51	19.50	19.48	20.4	0
3	64QAM	15	0	19.60	19.56	19.36		
Channel				131979	132322	132665		
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	19.46	19.68	19.49	20.4	0
1.4	QPSK	1	3	19.71	19.77	19.54		
1.4	QPSK	1	5	19.56	19.54	19.67		
1.4	QPSK	3	0	19.50	19.63	19.58		
1.4	QPSK	3	1	19.58	19.49	19.57		
1.4	QPSK	3	3	19.54	19.56	19.53		
1.4	QPSK	6	0	19.51	19.70	19.57	20.4	0
1.4	16QAM	1	0	19.50	19.59	19.41	20.4	0
1.4	16QAM	1	3	19.46	19.61	19.48		
1.4	16QAM	1	5	19.33	19.57	19.58		
1.4	16QAM	3	0	19.50	19.49	19.56		
1.4	16QAM	3	1	19.60	19.53	19.50		
1.4	16QAM	3	3	19.59	19.69	19.39		
1.4	16QAM	6	0	19.62	19.52	19.69	20.4	0
1.4	64QAM	1	0	19.63	19.60	19.58	20.4	0
1.4	64QAM	1	3	19.64	19.37	19.60		
1.4	64QAM	1	5	19.53	19.57	19.33		
1.4	64QAM	3	0	19.44	19.54	19.47		
1.4	64QAM	3	1	19.44	19.35	19.50		
1.4	64QAM	3	3	19.61	19.61	19.49		
1.4	64QAM	6	0	19.57	19.66	19.29	20.4	0



Band 71								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	683	688		
20	QPSK	1	0	23.63	23.75	23.70	25	0
20	QPSK	1	49	23.59	23.71	23.53		
20	QPSK	1	99	23.68	23.66	23.55		
20	QPSK	50	0	22.75	22.86	22.72	24	1
20	QPSK	50	24	22.70	22.77	22.68		
20	QPSK	50	50	22.65	22.68	22.68		
20	QPSK	100	0	22.67	22.88	22.63		
20	16QAM	1	0	22.78	22.80	22.83	24	1
20	16QAM	1	49	22.66	22.84	22.58		
20	16QAM	1	99	22.64	22.74	22.58		
20	16QAM	50	0	21.79	21.81	21.79	23	2
20	16QAM	50	24	21.78	21.71	21.67		
20	16QAM	50	50	21.64	21.63	21.76		
20	16QAM	100	0	21.70	21.79	21.76		
20	64QAM	1	0	21.70	21.72	21.87	23	2
20	64QAM	1	49	21.68	21.74	21.71		
20	64QAM	1	99	21.63	21.78	21.69		
20	64QAM	50	0	20.82	20.90	20.86	22	3
20	64QAM	50	24	20.68	20.72	20.68		
20	64QAM	50	50	20.70	20.69	20.71		
20	64QAM	100	0	20.66	20.83	20.69		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	23.48	23.70	23.66	25	0
15	QPSK	1	37	23.53	23.68	23.36		
15	QPSK	1	74	23.63	23.54	23.37		
15	QPSK	36	0	22.58	22.72	22.58	24	1
15	QPSK	36	20	22.62	22.74	22.56		
15	QPSK	36	39	22.52	22.52	22.56		
15	QPSK	75	0	22.59	22.73	22.56		
15	16QAM	1	0	22.69	22.71	22.72	24	1
15	16QAM	1	37	22.57	22.67	22.44		
15	16QAM	1	74	22.60	22.59	22.50		
15	16QAM	36	0	21.77	21.66	21.77	23	2
15	16QAM	36	20	21.67	21.69	21.52		
15	16QAM	36	39	21.56	21.58	21.69		
15	16QAM	75	0	21.63	21.68	21.67		
15	64QAM	1	0	21.67	21.66	21.80	23	2
15	64QAM	1	37	21.60	21.58	21.67		
15	64QAM	1	74	21.58	21.73	21.56		
15	64QAM	36	0	20.78	20.86	20.77	22	3
15	64QAM	36	20	20.62	20.54	20.61		
15	64QAM	36	39	20.63	20.57	20.55		
15	64QAM	75	0	20.56	20.66	20.56		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	23.53	23.68	23.58	25	0
10	QPSK	1	25	23.53	23.72	23.42		
10	QPSK	1	49	23.60	23.50	23.48		
10	QPSK	25	0	22.69	22.74	22.62	24	1



10	QPSK	25	12	22.63	22.64	22.64		
10	QPSK	25	25	22.61	22.57	22.57		
10	QPSK	50	0	22.64	22.80	22.58		
10	16QAM	1	0	22.67	22.64	22.76	24	1
10	16QAM	1	25	22.56	22.77	22.53		
10	16QAM	1	49	22.60	22.68	22.55		
10	16QAM	25	0	21.71	21.64	21.68	23	2
10	16QAM	25	12	21.75	21.58	21.52		
10	16QAM	25	25	21.48	21.60	21.73		
10	16QAM	50	0	21.58	21.63	21.63		
10	64QAM	1	0	21.66	21.66	21.71	23	2
10	64QAM	1	25	21.57	21.68	21.69		
10	64QAM	1	49	21.50	21.63	21.62		
10	64QAM	25	0	20.73	20.82	20.78	22	3
10	64QAM	25	12	20.64	20.59	20.64		
10	64QAM	25	25	20.66	20.67	20.61		
10	64QAM	50	0	20.58	20.79	20.58		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	23.47	23.70	23.53	25	0
5	QPSK	1	12	23.48	23.73	23.48		
5	QPSK	1	24	23.58	23.48	23.47		
5	QPSK	12	0	22.70	22.75	22.65	24	1
5	QPSK	12	7	22.64	22.64	22.58		
5	QPSK	12	13	22.59	22.54	22.66		
5	QPSK	25	0	22.59	22.73	22.46		
5	16QAM	1	0	22.63	22.62	22.70	24	1
5	16QAM	1	12	22.58	22.80	22.48		
5	16QAM	1	24	22.48	22.70	22.56		
5	16QAM	12	0	21.72	21.70	21.73	23	2
5	16QAM	12	7	21.74	21.57	21.65		
5	16QAM	12	13	21.53	21.57	21.67		
5	16QAM	25	0	21.62	21.62	21.62		
5	64QAM	1	0	21.63	21.55	21.75	23	2
5	64QAM	1	12	21.55	21.61	21.54		
5	64QAM	1	24	21.60	21.72	21.64		
5	64QAM	12	0	20.65	20.75	20.79	22	3
5	64QAM	12	7	20.52	20.63	20.61		
5	64QAM	12	13	20.65	20.55	20.60		
5	64QAM	25	0	20.48	20.66	20.51		



Ant2

Band 2 ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	24.28	24.32	24.22	24.5	0
20	QPSK	1	49	24.25	24.28	24.21		
20	QPSK	1	99	24.15	24.25	24.20		
20	QPSK	50	0	23.31	23.41	23.29	23.5	1
20	QPSK	50	24	23.29	23.36	23.30		
20	QPSK	50	50	23.27	23.39	23.35		
20	QPSK	100	0	23.30	23.42	23.29	23.5	1
20	16QAM	1	0	23.47	23.31	23.49		
20	16QAM	1	49	23.43	23.23	23.47		
20	16QAM	1	99	23.32	23.46	23.43	22.5	2
20	16QAM	50	0	22.39	22.48	22.44		
20	16QAM	50	24	22.34	22.43	22.37		
20	16QAM	50	50	22.30	22.45	22.42	22.5	2
20	16QAM	100	0	22.47	22.25	22.49		
20	64QAM	1	0	22.20	22.27	22.20		
20	64QAM	1	49	22.18	22.28	22.23	22.5	2
20	64QAM	1	99	22.21	22.25	22.20		
20	64QAM	50	0	21.33	21.43	21.28		
20	64QAM	50	24	21.31	21.43	21.33	21.5	3
20	64QAM	50	50	21.40	21.45	21.38		
20	64QAM	100	0	21.24	21.39	21.28		
Channel				18675	18900	19125		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	24.25	24.23	24.09	24.5	0
15	QPSK	1	37	24.12	24.24	24.07		
15	QPSK	1	74	24.02	24.21	24.13		
15	QPSK	36	0	23.26	23.34	23.25	23.5	1
15	QPSK	36	20	23.17	23.27	23.26		
15	QPSK	36	39	23.17	23.36	23.21		
15	QPSK	75	0	23.26	23.38	23.15	23.5	1
15	16QAM	1	0	23.40	23.49	23.42		
15	16QAM	1	37	23.38	23.43	23.40		
15	16QAM	1	74	23.19	23.34	23.40	22.5	2
15	16QAM	36	0	22.29	22.44	22.30		
15	16QAM	36	20	22.24	22.31	22.28		
15	16QAM	36	39	22.24	22.32	22.34	22.5	2
15	16QAM	75	0	22.33	22.47	22.35		
15	64QAM	1	0	22.15	22.16	22.12		
15	64QAM	1	37	22.05	22.14	22.13	22.5	2
15	64QAM	1	74	22.08	22.19	22.06		
15	64QAM	36	0	21.23	21.30	21.22		
15	64QAM	36	20	21.24	21.36	21.27	21.5	3
15	64QAM	36	39	21.36	21.39	21.26		
15	64QAM	75	0	21.10	21.30	21.13		
Channel				18650	18900	19150		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	24.23	24.28	24.17	24.5	0
10	QPSK	1	25	24.13	24.13	24.06		
10	QPSK	1	49	24.09	24.21	24.05		



10	QPSK	25	0	23.25	23.28	23.21	23.5	1
10	QPSK	25	12	23.21	23.25	23.25		
10	QPSK	25	25	23.21	23.28	23.24		
10	QPSK	50	0	23.20	23.34	23.23	23.5	1
10	16QAM	1	0	23.43	23.47	23.37		
10	16QAM	1	25	23.32	23.38	23.41		
10	16QAM	1	49	23.26	23.36	23.38	22.5	2
10	16QAM	25	0	22.27	22.42	22.40		
10	16QAM	25	12	22.24	22.39	22.27		
10	16QAM	25	25	22.22	22.37	22.34	22.5	2
10	16QAM	50	0	22.36	22.47	22.44		
10	64QAM	1	0	22.11	22.14	22.16		
10	64QAM	1	25	22.12	22.18	22.17	21.5	3
10	64QAM	1	49	22.14	22.19	22.06		
10	64QAM	25	0	21.26	21.31	21.13		
10	64QAM	25	12	21.25	21.31	21.23	21.5	3
10	64QAM	25	25	21.35	21.31	21.25		
10	64QAM	50	0	21.13	21.32	21.14		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	24.20	24.21	24.14	24.5	0
5	QPSK	1	12	24.18	24.22	24.15		
5	QPSK	1	24	24.06	24.11	24.07		
5	QPSK	12	0	23.24	23.29	23.17	23.5	1
5	QPSK	12	7	23.26	23.28	23.18		
5	QPSK	12	13	23.18	23.27	23.27		
5	QPSK	25	0	23.17	23.29	23.21	23.5	1
5	16QAM	1	0	23.35	23.36	23.35		
5	16QAM	1	12	23.40	23.41	23.42		
5	16QAM	1	24	23.29	23.42	23.33	22.5	2
5	16QAM	12	0	22.34	22.41	22.37		
5	16QAM	12	7	22.21	22.35	22.25		
5	16QAM	12	13	22.23	22.39	22.28	22.5	2
5	16QAM	25	0	22.37	22.45	22.40		
5	64QAM	1	0	22.10	22.21	22.11		
5	64QAM	1	12	22.10	22.17	22.18	21.5	3
5	64QAM	1	24	22.17	22.17	22.15		
5	64QAM	12	0	21.24	21.33	21.20		
5	64QAM	12	7	21.16	21.39	21.30	21.5	3
5	64QAM	12	13	21.30	21.33	21.32		
5	64QAM	25	0	21.20	21.30	21.20		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	24.24	24.20	24.16	24.5	0
3	QPSK	1	8	24.15	24.19	24.11		
3	QPSK	1	14	24.01	24.15	24.10		
3	QPSK	8	0	23.26	23.30	23.22	23.5	1
3	QPSK	8	4	23.17	23.32	23.19		
3	QPSK	8	7	23.17	23.31	23.30		
3	QPSK	15	0	23.18	23.38	23.24	23.5	1
3	16QAM	1	0	23.34	23.47	23.35		
3	16QAM	1	8	23.33	23.42	23.42		
3	16QAM	1	14	23.19	23.42	23.39	22.5	2
3	16QAM	8	0	22.30	22.42	22.35		
3	16QAM	8	4	22.25	22.31	22.28		
3	16QAM	8	7	22.20	22.36	22.28	22.5	2



3	16QAM	15	0	22.37	22.50	22.41		
3	64QAM	1	0	22.06	22.18	22.14	22.5	2
3	64QAM	1	8	22.12	22.22	22.13		
3	64QAM	1	14	22.09	22.19	22.09		
3	64QAM	8	0	21.24	21.30	21.25	21.5	3
3	64QAM	8	4	21.20	21.36	21.25		
3	64QAM	8	7	21.32	21.34	21.27		
3	64QAM	15	0	21.19	21.28	21.16		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	24.20	24.22	24.15	24.5	0
1.4	QPSK	1	3	24.21	24.20	24.08		
1.4	QPSK	1	5	24.11	24.15	24.10		
1.4	QPSK	3	0	24.11	24.26	24.18		
1.4	QPSK	3	1	24.20	24.26	24.22		
1.4	QPSK	3	3	24.08	24.20	24.23		
1.4	QPSK	6	0	23.22	23.39	23.23	23.5	1
1.4	16QAM	1	0	23.36	23.35	23.41	23.5	1
1.4	16QAM	1	3	23.31	23.44	23.39		
1.4	16QAM	1	5	23.26	23.42	23.35		
1.4	16QAM	3	0	23.28	23.28	23.29		
1.4	16QAM	3	1	23.21	23.34	23.24		
1.4	16QAM	3	3	23.20	23.29	23.30		
1.4	16QAM	6	0	22.38	22.41	22.37	22.5	2
1.4	64QAM	1	0	22.12	22.16	22.06	22.5	2
1.4	64QAM	1	3	22.08	22.21	22.12		
1.4	64QAM	1	5	22.08	22.20	22.10		
1.4	64QAM	3	0	22.17	22.27	22.09		
1.4	64QAM	3	1	22.14	22.34	22.20		
1.4	64QAM	3	3	22.21	22.25	22.29		
1.4	64QAM	6	0	21.17	21.29	21.15	21.5	3



Band 5 ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	24.21	24.27	24.12	25	0
10	QPSK	1	25	24.01	24.07	24.03		
10	QPSK	1	49	23.92	24.05	23.93		
10	QPSK	25	0	23.22	23.43	23.34	24	1
10	QPSK	25	12	23.20	23.32	23.19		
10	QPSK	25	25	23.27	23.41	23.15		
10	QPSK	50	0	23.36	23.46	23.29	24	1
10	16QAM	1	0	23.36	23.32	23.24		
10	16QAM	1	25	23.37	23.43	23.37		
10	16QAM	1	49	23.38	23.36	23.38	23	2
10	16QAM	25	0	22.18	22.30	22.23		
10	16QAM	25	12	22.28	22.28	22.34		
10	16QAM	25	25	22.24	22.32	22.22	23	2
10	16QAM	50	0	22.22	22.37	22.41		
10	64QAM	1	0	22.13	22.29	22.01		
10	64QAM	1	25	22.05	22.05	22.00	23	2
10	64QAM	1	49	21.97	22.16	22.08		
10	64QAM	25	0	21.13	21.25	21.14		
10	64QAM	25	12	21.31	21.37	21.20	22	3
10	64QAM	25	25	21.40	21.35	21.28		
10	64QAM	50	0	21.27	21.40	21.26		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	24.15	24.10	23.97	25	0
5	QPSK	1	12	23.89	23.93	23.96		
5	QPSK	1	24	23.89	23.93	23.86		
5	QPSK	12	0	23.09	23.31	23.21	24	1
5	QPSK	12	7	23.15	23.15	23.05		
5	QPSK	12	13	23.09	23.26	23.07		
5	QPSK	25	0	23.20	23.32	23.26	24	1
5	16QAM	1	0	23.30	23.16	23.19		
5	16QAM	1	12	23.29	23.33	23.32		
5	16QAM	1	24	23.21	23.27	23.24	23	2
5	16QAM	12	0	22.12	22.18	22.14		
5	16QAM	12	7	22.17	22.12	22.22		
5	16QAM	12	13	22.13	22.25	22.06	23	2
5	16QAM	25	0	22.12	22.20	22.26		
5	64QAM	1	0	22.06	22.26	21.85		
5	64QAM	1	12	22.01	22.01	21.85	23	2
5	64QAM	1	24	21.81	22.04	22.06		
5	64QAM	12	0	21.05	21.08	21.06		
5	64QAM	12	7	21.18	21.34	21.13	22	3
5	64QAM	12	13	21.35	21.25	21.24		
5	64QAM	25	0	21.19	21.27	21.11		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	24.08	24.15	23.96	25	0
3	QPSK	1	8	23.91	24.04	23.90		
3	QPSK	1	14	23.89	23.98	23.90		
3	QPSK	8	0	23.17	23.28	23.18	24	1



3	QPSK	8	4	23.10	23.19	23.13		
3	QPSK	8	7	23.12	23.35	23.11		
3	QPSK	15	0	23.28	23.41	23.17		
3	16QAM	1	0	23.30	23.26	23.18	24	1
3	16QAM	1	8	23.33	23.27	23.29		
3	16QAM	1	14	23.25	23.18	23.27		
3	16QAM	8	0	22.13	22.14	22.14	23	2
3	16QAM	8	4	22.25	22.23	22.26		
3	16QAM	8	7	22.22	22.27	22.07		
3	16QAM	15	0	22.18	22.34	22.29		
3	64QAM	1	0	21.97	22.24	21.87	23	2
3	64QAM	1	8	21.98	21.91	21.85		
3	64QAM	1	14	21.81	22.02	21.91		
3	64QAM	8	0	21.04	21.08	21.11	22	3
3	64QAM	8	4	21.20	21.19	21.06		
3	64QAM	8	7	21.24	21.24	21.22		
3	64QAM	15	0	21.21	21.23	21.10		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	24.10	24.21	24.03	25	0
1.4	QPSK	1	3	23.98	23.97	23.92		
1.4	QPSK	1	5	23.89	23.98	23.83		
1.4	QPSK	3	0	24.05	24.17	24.09		
1.4	QPSK	3	1	23.90	23.94	23.87		
1.4	QPSK	3	3	23.81	23.89	23.84		
1.4	QPSK	6	0	23.16	23.30	23.23	24	1
1.4	16QAM	1	0	23.13	23.24	23.16	24	1
1.4	16QAM	1	3	23.20	23.27	23.10		
1.4	16QAM	1	5	23.21	23.43	23.16		
1.4	16QAM	3	0	23.19	23.20	23.21		
1.4	16QAM	3	1	23.22	23.41	23.34		
1.4	16QAM	3	3	23.24	23.29	23.34		
1.4	16QAM	6	0	22.01	22.23	22.09	23	2
1.4	64QAM	1	0	22.13	22.12	22.19	23	2
1.4	64QAM	1	3	22.08	22.21	22.18		
1.4	64QAM	1	5	22.06	22.22	22.26		
1.4	64QAM	3	0	21.99	22.21	21.90		
1.4	64QAM	3	1	22.11	22.19	22.19		
1.4	64QAM	3	3	22.13	22.24	22.28		
1.4	64QAM	6	0	21.24	21.38	21.20	22	3



Band 7 ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	22.87	23.22	23.05	24	0
20	QPSK	1	49	22.75	23.04	22.83		
20	QPSK	1	99	22.82	23.16	22.97		
20	QPSK	50	0	22.46	22.48	22.34	23.5	0.5
20	QPSK	50	24	22.34	22.37	22.25		
20	QPSK	50	50	22.20	22.34	22.27		
20	QPSK	100	0	22.25	22.37	22.20	23.5	0.5
20	16QAM	1	0	22.40	22.54	22.51		
20	16QAM	1	49	22.33	22.36	22.19		
20	16QAM	1	99	22.36	22.41	22.36	22.5	1.5
20	16QAM	50	0	21.26	21.35	21.31		
20	16QAM	50	24	21.25	21.38	21.28		
20	16QAM	50	50	21.13	21.27	21.14	22.5	1.5
20	16QAM	100	0	21.37	21.43	21.34		
20	64QAM	1	0	21.74	21.78	21.75		
20	64QAM	1	49	21.42	21.52	21.44	22.5	1.5
20	64QAM	1	99	21.67	21.71	21.65		
20	64QAM	50	0	20.51	20.56	20.42		
20	64QAM	50	24	20.37	20.44	20.37	21.5	2.5
20	64QAM	50	50	20.38	20.43	20.39		
20	64QAM	100	0	20.37	20.42	20.33		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	22.81	23.12	22.94	24	0
15	QPSK	1	37	22.68	22.87	22.68		
15	QPSK	1	74	22.71	23.10	22.82		
15	QPSK	36	0	22.29	22.44	22.31	23.5	0.5
15	QPSK	36	20	22.25	22.33	22.09		
15	QPSK	36	39	22.14	22.30	22.11		
15	QPSK	75	0	22.10	22.26	22.14	23.5	0.5
15	16QAM	1	0	22.37	22.52	22.43		
15	16QAM	1	37	22.15	22.28	22.13		
15	16QAM	1	74	22.28	22.33	22.34	22.5	1.5
15	16QAM	36	0	21.12	21.30	21.14		
15	16QAM	36	20	21.19	21.27	21.20		
15	16QAM	36	39	21.05	21.19	20.98	22.5	1.5
15	16QAM	75	0	21.20	21.26	21.24		
15	64QAM	1	0	21.64	21.61	21.70		
15	64QAM	1	37	21.31	21.36	21.33	22.5	1.5
15	64QAM	1	74	21.57	21.66	21.49		
15	64QAM	36	0	20.39	20.41	20.36		
15	64QAM	36	20	20.23	20.32	20.21	21.5	2.5
15	64QAM	36	39	20.36	20.30	20.34		
15	64QAM	75	0	20.23	20.36	20.17		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	22.79	23.04	22.94	24	0
10	QPSK	1	25	22.62	22.89	22.73		
10	QPSK	1	49	22.78	23.06	22.86		
10	QPSK	25	0	22.30	22.31	22.18	23.5	0.5



10	QPSK	25	12	22.31	22.20	22.15		
10	QPSK	25	25	22.17	22.25	22.18		
10	QPSK	50	0	22.20	22.33	22.13		
10	16QAM	1	0	22.24	22.49	22.37	23.5	0.5
10	16QAM	1	25	22.24	22.29	22.07		
10	16QAM	1	49	22.19	22.31	22.18		
10	16QAM	25	0	21.09	21.24	21.29	22.5	1.5
10	16QAM	25	12	21.20	21.21	21.21		
10	16QAM	25	25	20.97	21.20	21.00		
10	16QAM	50	0	21.30	21.32	21.22		
10	64QAM	1	0	21.63	21.62	21.58	22.5	1.5
10	64QAM	1	25	21.33	21.39	21.32		
10	64QAM	1	49	21.60	21.56	21.62		
10	64QAM	25	0	20.47	20.46	20.26	21.5	2.5
10	64QAM	25	12	20.24	20.31	20.29		
10	64QAM	25	25	20.26	20.37	20.21		
10	64QAM	50	0	20.29	20.39	20.20		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	22.78	23.09	23.01	24	0
5	QPSK	1	12	22.61	22.90	22.78		
5	QPSK	1	24	22.79	23.09	22.83		
5	QPSK	12	0	22.39	22.33	22.24	23.5	0.5
5	QPSK	12	7	22.20	22.26	22.19		
5	QPSK	12	13	22.15	22.24	22.15		
5	QPSK	25	0	22.12	22.23	22.15		
5	16QAM	1	0	22.27	22.45	22.43	23.5	0.5
5	16QAM	1	12	22.29	22.27	22.04		
5	16QAM	1	24	22.27	22.26	22.26		
5	16QAM	12	0	21.15	21.28	21.23	22.5	1.5
5	16QAM	12	7	21.14	21.21	21.19		
5	16QAM	12	13	21.04	21.22	21.05		
5	16QAM	25	0	21.21	21.28	21.27		
5	64QAM	1	0	21.69	21.75	21.59	22.5	1.5
5	64QAM	1	12	21.37	21.40	21.41		
5	64QAM	1	24	21.50	21.62	21.62		
5	64QAM	12	0	20.34	20.42	20.36	21.5	2.5
5	64QAM	12	7	20.29	20.33	20.30		
5	64QAM	12	13	20.29	20.40	20.29		
5	64QAM	25	0	20.30	20.30	20.18		



Band 66 ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	23.40	23.44	23.41	25	0
20	QPSK	1	49	23.32	23.36	23.31		
20	QPSK	1	99	23.21	23.33	23.22		
20	QPSK	50	0	22.49	22.67	22.63	24	1
20	QPSK	50	24	22.46	22.56	22.48		
20	QPSK	50	50	22.55	22.62	22.47		
20	QPSK	100	0	22.62	22.70	22.57		
20	16QAM	1	0	22.56	22.61	22.47	24	1
20	16QAM	1	49	22.66	22.68	22.59		
20	16QAM	1	99	22.55	22.63	22.59		
20	16QAM	50	0	21.36	21.54	21.41	23	2
20	16QAM	50	24	21.53	21.60	21.52		
20	16QAM	50	50	21.46	21.63	21.53		
20	16QAM	100	0	21.49	21.66	21.64		
20	64QAM	1	0	21.42	21.49	21.34	23	2
20	64QAM	1	49	21.29	21.34	21.22		
20	64QAM	1	99	21.25	21.38	21.32		
20	64QAM	50	0	20.42	20.56	20.46	22	3
20	64QAM	50	24	20.63	20.66	20.49		
20	64QAM	50	50	20.59	20.64	20.48		
20	64QAM	100	0	20.55	20.65	20.54		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	23.26	23.29	23.33	25	0
15	QPSK	1	37	23.21	23.29	23.26		
15	QPSK	1	74	23.14	23.26	23.16		
15	QPSK	36	0	22.45	22.52	22.57	24	1
15	QPSK	36	20	22.39	22.47	22.35		
15	QPSK	36	39	22.38	22.58	22.30		
15	QPSK	75	0	22.55	22.60	22.53		
15	16QAM	1	0	22.48	22.53	22.33	24	1
15	16QAM	1	37	22.62	22.55	22.56		
15	16QAM	1	74	22.37	22.53	22.47		
15	16QAM	36	0	21.32	21.41	21.36	23	2
15	16QAM	36	20	21.49	21.42	21.43		
15	16QAM	36	39	21.37	21.54	21.44		
15	16QAM	75	0	21.34	21.52	21.49		
15	64QAM	1	0	21.32	21.37	21.24	23	2
15	64QAM	1	37	21.23	21.19	21.17		
15	64QAM	1	74	21.15	21.24	21.20		
15	64QAM	36	0	20.25	20.47	20.29	22	3
15	64QAM	36	20	20.49	20.59	20.44		
15	64QAM	36	39	20.57	20.59	20.37		
15	64QAM	75	0	20.41	20.57	20.42		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	23.29	23.36	23.39	25	0
10	QPSK	1	25	23.18	23.24	23.19		
10	QPSK	1	49	23.18	23.28	23.05		
10	QPSK	25	0	22.43	22.49	22.59	24	1



10	QPSK	25	12	22.39	22.44	22.39		
10	QPSK	25	25	22.38	22.49	22.35		
10	QPSK	50	0	22.54	22.65	22.52		
10	16QAM	1	0	22.49	22.53	22.31	24	1
10	16QAM	1	25	22.55	22.57	22.51		
10	16QAM	1	49	22.46	22.49	22.42		
10	16QAM	25	0	21.24	21.43	21.37	23	2
10	16QAM	25	12	21.37	21.53	21.48		
10	16QAM	25	25	21.36	21.54	21.45		
10	16QAM	50	0	21.37	21.57	21.52		
10	64QAM	1	0	21.33	21.45	21.19	23	2
10	64QAM	1	25	21.18	21.23	21.15		
10	64QAM	1	49	21.10	21.27	21.30		
10	64QAM	25	0	20.35	20.41	20.31	22	3
10	64QAM	25	12	20.47	20.59	20.31		
10	64QAM	25	25	20.54	20.59	20.45		
10	64QAM	50	0	20.39	20.53	20.42		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	23.35	23.29	23.26	25	0
5	QPSK	1	12	23.15	23.22	23.18		
5	QPSK	1	24	23.08	23.25	23.18		
5	QPSK	12	0	22.35	22.65	22.51	24	1
5	QPSK	12	7	22.38	22.43	22.33		
5	QPSK	12	13	22.50	22.47	22.29		
5	QPSK	25	0	22.51	22.67	22.44	24	1
5	16QAM	1	0	22.50	22.49	22.45		
5	16QAM	1	12	22.61	22.65	22.52		
5	16QAM	1	24	22.44	22.57	22.42	23	2
5	16QAM	12	0	21.28	21.47	21.29		
5	16QAM	12	7	21.46	21.51	21.48		
5	16QAM	12	13	21.31	21.49	21.37	23	2
5	16QAM	25	0	21.33	21.58	21.53		
5	64QAM	1	0	21.38	21.39	21.26		
5	64QAM	1	12	21.15	21.18	21.06	23	2
5	64QAM	1	24	21.20	21.23	21.16		
5	64QAM	12	0	20.29	20.44	20.44		
5	64QAM	12	7	20.47	20.49	20.33	22	3
5	64QAM	12	13	20.44	20.60	20.35		
5	64QAM	25	0	20.44	20.58	20.38		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	23.35	23.33	23.27	25	0
3	QPSK	1	8	23.22	23.30	23.14		
3	QPSK	1	14	23.05	23.23	23.19		
3	QPSK	8	0	22.47	22.63	22.59	24	1
3	QPSK	8	4	22.41	22.40	22.42		
3	QPSK	8	7	22.46	22.47	22.29		
3	QPSK	15	0	22.56	22.66	22.46	24	1
3	16QAM	1	0	22.45	22.47	22.31		
3	16QAM	1	8	22.58	22.58	22.46		
3	16QAM	1	14	22.47	22.52	22.47	23	2
3	16QAM	8	0	21.22	21.42	21.35		
3	16QAM	8	4	21.42	21.48	21.36		
3	16QAM	8	7	21.32	21.52	21.51	23	2
3	16QAM	15	0	21.45	21.51	21.60		



3	64QAM	1	0	21.25	21.44	21.16	23	2
3	64QAM	1	8	21.26	21.32	21.06		
3	64QAM	1	14	21.20	21.26	21.24		
3	64QAM	8	0	20.33	20.42	20.43	22	3
3	64QAM	8	4	20.52	20.54	20.42		
3	64QAM	8	7	20.53	20.52	20.37		
3	64QAM	15	0	20.45	20.60	20.39		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	23.33	23.37	23.26	25	0
1.4	QPSK	1	3	23.24	23.21	23.22		
1.4	QPSK	1	5	23.14	23.22	23.10		
1.4	QPSK	3	0	23.25	23.31	23.38		
1.4	QPSK	3	1	23.09	23.27	23.25		
1.4	QPSK	3	3	23.20	23.39	23.21		
1.4	QPSK	6	0	22.57	22.66	22.43	24	1
1.4	16QAM	1	0	22.49	22.43	22.31	24	1
1.4	16QAM	1	3	22.48	22.59	22.45		
1.4	16QAM	1	5	22.53	22.50	22.43		
1.4	16QAM	3	0	22.29	22.48	22.32		
1.4	16QAM	3	1	22.36	22.56	22.35		
1.4	16QAM	3	3	22.41	22.58	22.49		
1.4	16QAM	6	0	21.37	21.48	21.49	23	2
1.4	64QAM	1	0	21.36	21.44	21.17	23	2
1.4	64QAM	1	3	21.15	21.26	21.07		
1.4	64QAM	1	5	21.18	21.22	21.27		
1.4	64QAM	3	0	21.36	21.52	21.35		
1.4	64QAM	3	1	21.46	21.50	21.32		
1.4	64QAM	3	3	21.51	21.61	21.42		
1.4	64QAM	6	0	20.48	20.58	20.47	22	3



Reduced Power Mode for DSI 3

Ant0

Band 2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100	17.5	0
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	16.45	16.65	16.56		
20	QPSK	1	49	16.54	16.60	16.56	17.5	0
20	QPSK	1	99	16.55	16.43	16.64		
20	QPSK	50	0	16.48	16.59	16.58		
20	QPSK	50	24	16.49	16.50	16.51	17.5	0
20	QPSK	50	50	16.55	16.40	16.56		
20	QPSK	100	0	16.36	16.50	16.45		
20	16QAM	1	0	16.45	16.53	16.48	17.5	0
20	16QAM	1	49	16.53	16.56	16.54		
20	16QAM	1	99	16.45	16.32	16.59		
20	16QAM	50	0	16.45	16.58	16.45	17.5	0
20	16QAM	50	24	16.40	16.50	16.47		
20	16QAM	50	50	16.45	16.34	16.57		
20	16QAM	100	0	16.37	16.49	16.41	17.5	0
20	64QAM	1	0	16.35	16.50	16.44		
20	64QAM	1	49	16.48	16.46	16.52		
20	64QAM	1	99	16.44	16.30	16.59	17.5	0
20	64QAM	50	0	16.39	16.54	16.56		
20	64QAM	50	24	16.45	16.35	16.48		
20	64QAM	50	50	16.47	16.34	16.40	17.5	0
20	64QAM	100	0	16.32	16.47	16.35		
Channel				18675	18900	19125		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	16.35	16.59	16.53		
15	QPSK	1	37	16.52	16.60	16.60	17.5	0
15	QPSK	1	74	16.58	16.34	16.57		
15	QPSK	36	0	16.45	16.57	16.49		
15	QPSK	36	20	16.45	16.43	16.51	17.5	0
15	QPSK	36	39	16.47	16.37	16.58		
15	QPSK	75	0	16.35	16.41	16.44		
15	16QAM	1	0	16.44	16.45	16.41	17.5	0
15	16QAM	1	37	16.58	16.48	16.53		
15	16QAM	1	74	16.41	16.26	16.54		
15	16QAM	36	0	16.38	16.48	16.41	17.5	0
15	16QAM	36	20	16.35	16.51	16.51		
15	16QAM	36	39	16.47	16.38	16.60		
15	16QAM	75	0	16.30	16.49	16.44	17.5	0
15	64QAM	1	0	16.26	16.47	16.44		
15	64QAM	1	37	16.44	16.42	16.47		
15	64QAM	1	74	16.43	16.34	16.59	17.5	0
15	64QAM	36	0	16.42	16.56	16.58		
15	64QAM	36	20	16.45	16.27	16.53		
15	64QAM	36	39	16.38	16.29	16.33	17.5	0
15	64QAM	75	0	16.31	16.47	16.35		
Channel				18650	18900	19150		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	16.40	16.59	16.51		
10	QPSK	1	25	16.44	16.53	16.45	17.5	0
10	QPSK	1	49	16.45	16.41	16.56		



10	QPSK	25	0	16.47	16.56	16.49	17.5	0
10	QPSK	25	12	16.46	16.43	16.42		
10	QPSK	25	25	16.42	16.28	16.54		
10	QPSK	50	0	16.24	16.41	16.43	17.5	0
10	16QAM	1	0	16.38	16.46	16.49		
10	16QAM	1	25	16.51	16.42	16.48		
10	16QAM	1	49	16.39	16.22	16.48	17.5	0
10	16QAM	25	0	16.40	16.58	16.40		
10	16QAM	25	12	16.35	16.46	16.42		
10	16QAM	25	25	16.44	16.34	16.45	17.5	0
10	16QAM	50	0	16.25	16.46	16.31		
10	64QAM	1	0	16.30	16.43	16.42		
10	64QAM	1	25	16.35	16.39	16.44	17.5	0
10	64QAM	1	49	16.35	16.26	16.52		
10	64QAM	25	0	16.31	16.42	16.57		
10	64QAM	25	12	16.46	16.32	16.39	17.5	0
10	64QAM	25	25	16.35	16.28	16.38		
10	64QAM	50	0	16.20	16.48	16.28		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	16.38	16.63	16.46	17.5	0
5	QPSK	1	12	16.45	16.57	16.56		
5	QPSK	1	24	16.46	16.35	16.53		
5	QPSK	12	0	16.34	16.53	16.57	17.5	0
5	QPSK	12	7	16.45	16.37	16.39		
5	QPSK	12	13	16.47	16.32	16.46		
5	QPSK	25	0	16.30	16.45	16.39	17.5	0
5	16QAM	1	0	16.33	16.47	16.42		
5	16QAM	1	12	16.53	16.46	16.42		
5	16QAM	1	24	16.42	16.29	16.55	17.5	0
5	16QAM	12	0	16.37	16.52	16.44		
5	16QAM	12	7	16.39	16.38	16.36		
5	16QAM	12	13	16.40	16.27	16.51	17.5	0
5	16QAM	25	0	16.30	16.46	16.37		
5	64QAM	1	0	16.28	16.39	16.37		
5	64QAM	1	12	16.38	16.35	16.43	17.5	0
5	64QAM	1	24	16.32	16.27	16.50		
5	64QAM	12	0	16.37	16.45	16.55		
5	64QAM	12	7	16.40	16.34	16.41	17.5	0
5	64QAM	12	13	16.37	16.24	16.34		
5	64QAM	25	0	16.29	16.43	16.28		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	16.39	16.51	16.43	17.5	0
3	QPSK	1	8	16.44	16.56	16.49		
3	QPSK	1	14	16.49	16.38	16.47		
3	QPSK	8	0	16.34	16.46	16.51	17.5	0
3	QPSK	8	4	16.37	16.37	16.39		
3	QPSK	8	7	16.43	16.25	16.53		
3	QPSK	15	0	16.31	16.43	16.34	17.5	0
3	16QAM	1	0	16.35	16.40	16.42		
3	16QAM	1	8	16.41	16.47	16.38		
3	16QAM	1	14	16.32	16.22	16.45	17.5	0
3	16QAM	8	0	16.31	16.54	16.41		
3	16QAM	8	4	16.35	16.38	16.44		
3	16QAM	8	7	16.29	16.30	16.55	17.5	0



3	16QAM	15	0	16.35	16.44	16.34		
3	64QAM	1	0	16.19	16.45	16.36	17.5	0
3	64QAM	1	8	16.32	16.32	16.44		
3	64QAM	1	14	16.31	16.18	16.48		
3	64QAM	8	0	16.35	16.44	16.53	17.5	0
3	64QAM	8	4	16.34	16.24	16.39		
3	64QAM	8	7	16.45	16.29	16.29		
3	64QAM	15	0	16.28	16.33	16.31		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	16.33	16.60	16.39	17.5	0
1.4	QPSK	1	3	16.44	16.48	16.45		
1.4	QPSK	1	5	16.49	16.39	16.60		
1.4	QPSK	3	0	16.37	16.55	16.54		
1.4	QPSK	3	1	16.41	16.47	16.48		
1.4	QPSK	3	3	16.46	16.35	16.47		
1.4	QPSK	6	0	16.28	16.35	16.32	17.5	0
1.4	16QAM	1	0	16.42	16.46	16.32	17.5	0
1.4	16QAM	1	3	16.39	16.40	16.41		
1.4	16QAM	1	5	16.33	16.23	16.51		
1.4	16QAM	3	0	16.40	16.47	16.30		
1.4	16QAM	3	1	16.29	16.33	16.31		
1.4	16QAM	3	3	16.41	16.17	16.51		
1.4	16QAM	6	0	16.32	16.38	16.35	17.5	0
1.4	64QAM	1	0	16.29	16.36	16.42	17.5	0
1.4	64QAM	1	3	16.43	16.30	16.43		
1.4	64QAM	1	5	16.30	16.16	16.55		
1.4	64QAM	3	0	16.33	16.47	16.43		
1.4	64QAM	3	1	16.42	16.23	16.39		
1.4	64QAM	3	3	16.42	16.27	16.36		
1.4	64QAM	6	0	16.24	16.34	16.28	17.5	0



Band 4								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20050	20175	20300		
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	16.19	16.35	16.18	17.1	0
20	QPSK	1	49	16.22	16.26	16.10		
20	QPSK	1	99	16.19	16.21	16.13		
20	QPSK	50	0	16.06	16.29	16.26	17.1	0
20	QPSK	50	24	15.98	16.07	16.20		
20	QPSK	50	50	15.97	16.16	16.20		
20	QPSK	100	0	16.11	16.15	16.14		
20	16QAM	1	0	16.10	16.12	15.96	17.1	0
20	16QAM	1	49	16.04	16.16	16.14		
20	16QAM	1	99	16.07	16.21	16.07		
20	16QAM	50	0	16.03	15.98	16.10	17.1	0
20	16QAM	50	24	16.19	16.09	16.18		
20	16QAM	50	50	16.18	16.17	15.90		
20	16QAM	100	0	16.19	16.20	16.17		
20	64QAM	1	0	16.22	16.14	16.18	17.1	0
20	64QAM	1	49	16.20	16.01	16.07		
20	64QAM	1	99	16.13	16.13	16.01		
20	64QAM	50	0	16.06	16.18	16.07	17.1	0
20	64QAM	50	24	16.12	15.96	16.03		
20	64QAM	50	50	16.23	16.08	16.08		
20	64QAM	100	0	16.11	16.19	15.94		
Channel				20025	20175	20325	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	16.12	16.22	16.12	17.1	0
15	QPSK	1	37	16.12	16.19	16.07		
15	QPSK	1	74	16.04	16.17	15.98		
15	QPSK	36	0	16.03	16.22	16.12	17.1	0
15	QPSK	36	20	15.91	15.91	16.04		
15	QPSK	36	39	15.80	16.03	16.13		
15	QPSK	75	0	16.03	16.06	16.00		
15	16QAM	1	0	16.07	16.09	15.87	17.1	0
15	16QAM	1	37	15.86	16.08	16.02		
15	16QAM	1	74	16.00	16.16	15.97		
15	16QAM	36	0	15.86	15.94	16.07	17.1	0
15	16QAM	36	20	16.12	16.06	16.04		
15	16QAM	36	39	16.08	16.09	15.80		
15	16QAM	75	0	16.04	16.17	16.06		
15	64QAM	1	0	16.16	16.01	16.09	17.1	0
15	64QAM	1	37	16.04	15.95	15.99		
15	64QAM	1	74	16.02	15.99	15.92		
15	64QAM	36	0	15.94	16.02	15.91	17.1	0
15	64QAM	36	20	16.07	15.87	15.89		
15	64QAM	36	39	16.14	16.04	15.92		
15	64QAM	75	0	16.01	16.05	15.85		
Channel				20000	20175	20350	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	16.15	16.30	16.11	17.1	0
10	QPSK	1	25	16.19	16.08	16.13		
10	QPSK	1	49	16.07	16.13	15.95		
10	QPSK	25	0	16.02	16.26	16.16		



10	QPSK	25	12	15.91	16.03	16.15		
10	QPSK	25	25	15.94	16.10	16.13		
10	QPSK	50	0	15.98	16.03	16.01		
10	16QAM	1	0	15.95	16.01	15.89	17.1	0
10	16QAM	1	25	15.91	15.99	15.97		
10	16QAM	1	49	15.95	16.18	15.95		
10	16QAM	25	0	15.95	15.89	15.93	17.1	0
10	16QAM	25	12	16.12	16.03	16.09		
10	16QAM	25	25	16.09	16.12	15.75		
10	16QAM	50	0	16.16	16.08	16.00	17.1	0
10	64QAM	1	0	16.18	15.97	16.02		
10	64QAM	1	25	16.10	15.89	15.89		
10	64QAM	1	49	16.07	16.00	15.97	17.1	0
10	64QAM	25	0	15.94	16.09	15.98		
10	64QAM	25	12	16.07	15.78	15.88		
10	64QAM	25	25	16.17	15.95	16.02	17.1	0
10	64QAM	50	0	15.93	16.09	15.86		
Channel				19975	20175	20375		
Frequency (MHz)				1712.5	1732.5	1752.5		
5	QPSK	1	0	16.10	16.32	16.02	17.1	0
5	QPSK	1	12	16.12	16.10	16.00		
5	QPSK	1	24	16.16	16.06	16.11		
5	QPSK	12	0	15.92	16.23	16.20	17.1	0
5	QPSK	12	7	15.85	15.90	16.09		
5	QPSK	12	13	15.79	16.13	16.07		
5	QPSK	25	0	16.00	16.09	15.99	17.1	0
5	16QAM	1	0	15.93	16.04	15.89		
5	16QAM	1	12	15.93	16.05	16.08		
5	16QAM	1	24	16.04	16.03	16.01	17.1	0
5	16QAM	12	0	15.94	15.83	16.01		
5	16QAM	12	7	16.03	15.95	16.09		
5	16QAM	12	13	16.04	16.11	15.80	17.1	0
5	16QAM	25	0	16.06	16.12	16.06		
5	64QAM	1	0	16.19	16.11	16.12		
5	64QAM	1	12	16.09	15.91	16.03	17.1	0
5	64QAM	1	24	15.98	16.06	15.86		
5	64QAM	12	0	16.02	16.11	16.00		
5	64QAM	12	7	16.02	15.81	15.94	17.1	0
5	64QAM	12	13	16.15	15.97	15.97		
5	64QAM	25	0	15.95	16.07	15.79		
Channel				19965	20175	20385	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
3	QPSK	1	0	16.02	16.24	16.13	17.1	0
3	QPSK	1	8	16.08	16.13	16.14		
3	QPSK	1	14	16.17	16.11	16.03		
3	QPSK	8	0	15.90	16.18	16.09	17.1	0
3	QPSK	8	4	15.82	15.99	16.05		
3	QPSK	8	7	15.80	16.07	16.17		
3	QPSK	15	0	15.96	16.11	16.01	17.1	0
3	16QAM	1	0	16.05	16.01	15.80		
3	16QAM	1	8	15.93	16.02	16.05		
3	16QAM	1	14	16.03	16.11	16.04	17.1	0
3	16QAM	8	0	15.96	15.82	15.98		
3	16QAM	8	4	16.04	15.97	16.09		
3	16QAM	8	7	16.03	16.03	15.77	17.1	0
3	16QAM	15	0	16.10	16.14	16.03		



3	64QAM	1	0	16.06	16.03	16.08	17.1	0
3	64QAM	1	8	16.13	15.89	15.97		
3	64QAM	1	14	15.99	16.00	15.95		
3	64QAM	8	0	15.99	16.13	16.05	17.1	0
3	64QAM	8	4	15.95	15.85	15.88		
3	64QAM	8	7	16.20	16.02	15.91		
3	64QAM	15	0	16.03	16.13	15.91		
Channel				19957	20175	20393	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
1.4	QPSK	1	0	16.13	16.29	16.02	17.1	0
1.4	QPSK	1	3	16.09	16.14	16.10		
1.4	QPSK	1	5	16.08	16.09	15.96		
1.4	QPSK	3	0	15.96	16.19	16.23		
1.4	QPSK	3	1	15.90	16.04	16.09		
1.4	QPSK	3	3	15.86	16.10	16.14		
1.4	QPSK	6	0	15.98	16.08	16.07	17.1	0
1.4	16QAM	1	0	15.94	15.95	15.84	17.1	0
1.4	16QAM	1	3	15.95	16.05	15.97		
1.4	16QAM	1	5	15.89	16.15	15.98		
1.4	16QAM	3	0	15.98	15.83	15.98		
1.4	16QAM	3	1	16.04	16.06	16.13		
1.4	16QAM	3	3	16.06	16.10	15.77		
1.4	16QAM	6	0	16.06	16.05	16.14	17.1	0
1.4	64QAM	1	0	16.05	16.11	16.10	17.1	0
1.4	64QAM	1	3	16.12	15.94	15.98		
1.4	64QAM	1	5	16.00	16.04	15.90		
1.4	64QAM	3	0	16.03	16.03	16.04		
1.4	64QAM	3	1	16.04	15.90	15.95		
1.4	64QAM	3	3	16.16	16.03	15.95		
1.4	64QAM	6	0	15.96	16.15	15.83	17.1	0



Band 5										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				20450	20525	20600	20.7	0		
Frequency (MHz)				829	836.5	844				
10	QPSK	1	0	19.70	19.91	19.70				
10	QPSK	1	25	19.56	19.72	19.72	20.7	0		
10	QPSK	1	49	19.81	19.81	19.87				
10	QPSK	25	0	19.69	19.88	19.72				
10	QPSK	25	12	19.56	19.86	19.71	20.7	0		
10	QPSK	25	25	19.70	19.84	19.80				
10	QPSK	50	0	19.74	19.87	19.75				
10	16QAM	1	0	19.72	19.86	19.58	20.7	0		
10	16QAM	1	25	19.68	19.82	19.75				
10	16QAM	1	49	19.71	19.83	19.73				
10	16QAM	25	0	19.64	19.79	19.66	20.7	0		
10	16QAM	25	12	19.83	19.76	19.83				
10	16QAM	25	25	19.78	19.83	19.86				
10	16QAM	50	0	19.58	19.70	19.65	20.7	0		
10	64QAM	1	0	19.70	19.84	19.74				
10	64QAM	1	25	19.82	19.84	19.75				
10	64QAM	1	49	19.57	19.87	19.63	20.7	0		
10	64QAM	25	0	19.79	19.78	19.74				
10	64QAM	25	12	19.86	19.46	19.51				
10	64QAM	25	25	19.55	19.58	19.56	20.7	0		
10	64QAM	50	0	19.68	19.62	19.77				
Channel				20425	20525	20625			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5	20.7	0		
5	QPSK	1	0	19.64	19.80	19.81				
5	QPSK	1	12	19.89	19.81	19.50				
5	QPSK	1	24	19.89	19.81	19.71	20.7	0		
5	QPSK	12	0	19.65	19.86	19.58				
5	QPSK	12	7	19.62	19.83	19.44				
5	QPSK	12	13	19.58	19.87	19.60	20.7	0		
5	QPSK	25	0	19.54	19.62	19.68				
5	16QAM	1	0	19.54	19.50	19.55				
5	16QAM	1	12	19.68	19.54	19.68	20.7	0		
5	16QAM	1	24	19.57	19.39	19.41				
5	16QAM	12	0	19.52	19.55	19.79				
5	16QAM	12	7	19.57	19.61	19.67	20.7	0		
5	16QAM	12	13	19.80	19.79	19.55				
5	16QAM	25	0	19.88	19.62	19.73				
5	64QAM	1	0	19.72	19.72	19.88	20.7	0		
5	64QAM	1	12	19.74	19.73	19.88				
5	64QAM	1	24	19.73	19.74	19.89				
5	64QAM	12	0	19.53	19.56	19.42	20.7	0		
5	64QAM	12	7	19.80	19.44	19.48				
5	64QAM	12	13	19.56	19.83	19.76				
5	64QAM	25	0	19.57	19.85	19.63	20.7	0		
Channel				20415	20525	20635			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5				
3	QPSK	1	0	19.77	19.79	19.52	20.7	0		
3	QPSK	1	8	19.75	19.78	19.58				
3	QPSK	1	14	19.75	19.82	19.58				
3	QPSK	8	0	19.48	19.40	19.78	20.7	0		



3	QPSK	8	4	19.78	19.65	19.84		
3	QPSK	8	7	19.87	19.88	19.65		
3	QPSK	15	0	19.71	19.87	19.62		
3	16QAM	1	0	19.89	19.65	19.61	20.7	0
3	16QAM	1	8	19.64	19.65	19.77		
3	16QAM	1	14	19.89	19.82	19.82		
3	16QAM	8	0	19.62	19.89	19.86	20.7	0
3	16QAM	8	4	19.62	19.79	19.81		
3	16QAM	8	7	19.88	19.86	19.81		
3	16QAM	15	0	19.52	19.88	19.89		
3	64QAM	1	0	19.80	19.62	19.49	20.7	0
3	64QAM	1	8	19.62	19.86	19.59		
3	64QAM	1	14	19.62	19.68	19.51		
3	64QAM	8	0	19.78	19.64	19.67	20.7	0
3	64QAM	8	4	19.52	19.70	19.68		
3	64QAM	8	7	19.68	19.52	19.67		
3	64QAM	15	0	19.68	19.60	19.73		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	19.68	19.78	19.56	20.7	0
1.4	QPSK	1	3	19.68	19.85	19.82		
1.4	QPSK	1	5	19.60	19.82	19.60		
1.4	QPSK	3	0	19.89	19.67	19.77		
1.4	QPSK	3	1	19.83	19.66	19.63		
1.4	QPSK	3	3	19.66	19.88	19.51		
1.4	QPSK	6	0	19.64	19.74	19.80	20.7	0
1.4	16QAM	1	0	19.74	19.88	19.85	20.7	0
1.4	16QAM	1	3	19.53	19.59	19.88		
1.4	16QAM	1	5	19.60	19.72	19.74		
1.4	16QAM	3	0	19.85	19.77	19.46		
1.4	16QAM	3	1	19.68	19.61	19.60		
1.4	16QAM	3	3	19.90	19.85	19.65		
1.4	16QAM	6	0	19.53	19.90	19.59	20.7	0
1.4	64QAM	1	0	19.82	19.89	19.44	20.7	0
1.4	64QAM	1	3	19.66	19.88	19.83		
1.4	64QAM	1	5	19.60	19.83	19.85		
1.4	64QAM	3	0	19.60	19.64	19.60		
1.4	64QAM	3	1	19.82	19.90	19.52		
1.4	64QAM	3	3	19.60	19.71	19.72		
1.4	64QAM	6	0	19.74	19.84	19.77	20.7	0



Band 7								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350	11.8	0
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	10.76	11.02	10.74	11.8	0
20	QPSK	1	49	10.86	10.87	10.97		
20	QPSK	1	99	10.79	10.88	10.83		
20	QPSK	50	0	10.83	10.97	10.80	11.8	0
20	QPSK	50	24	10.63	10.72	10.83		
20	QPSK	50	50	10.71	10.70	10.76		
20	QPSK	100	0	10.66	10.95	10.77		
20	16QAM	1	0	10.68	10.70	10.73	11.8	0
20	16QAM	1	49	10.63	10.83	10.80		
20	16QAM	1	99	10.67	10.86	10.81		
20	16QAM	50	0	10.63	10.69	10.66	11.8	0
20	16QAM	50	24	10.78	10.74	10.79		
20	16QAM	50	50	10.84	10.77	10.67		
20	16QAM	100	0	10.78	10.72	10.91		
20	64QAM	1	0	10.72	10.87	10.84	11.8	0
20	64QAM	1	49	10.83	10.74	10.73		
20	64QAM	1	99	10.65	10.85	10.62		
20	64QAM	50	0	10.72	10.73	10.67	11.8	0
20	64QAM	50	24	10.80	10.72	10.79		
20	64QAM	50	50	10.85	10.72	10.78		
20	64QAM	100	0	10.66	10.86	10.66		
Channel				20825	21100	21375	11.8	0
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	10.70	11.00	10.64	11.8	0
15	QPSK	1	37	10.78	10.81	10.84		
15	QPSK	1	74	10.74	10.81	10.65		
15	QPSK	36	0	10.78	10.87	10.69	11.8	0
15	QPSK	36	20	10.53	10.60	10.74		
15	QPSK	36	39	10.64	10.59	10.63		
15	QPSK	75	0	10.54	10.84	10.66		
15	16QAM	1	0	10.66	10.65	10.68	11.8	0
15	16QAM	1	37	10.49	10.80	10.72		
15	16QAM	1	74	10.64	10.69	10.68		
15	16QAM	36	0	10.50	10.64	10.55	11.8	0
15	16QAM	36	20	10.63	10.64	10.68		
15	16QAM	36	39	10.82	10.67	10.58		
15	16QAM	75	0	10.70	10.59	10.88		
15	64QAM	1	0	10.70	10.78	10.71	11.8	0
15	64QAM	1	37	10.67	10.60	10.67		
15	64QAM	1	74	10.58	10.73	10.55		
15	64QAM	36	0	10.62	10.68	10.59	11.8	0
15	64QAM	36	20	10.67	10.55	10.67		
15	64QAM	36	39	10.72	10.64	10.69		
15	64QAM	75	0	10.58	10.82	10.60		
Channel				20800	21100	21400	11.8	0
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	10.63	10.96	10.69	11.8	0
10	QPSK	1	25	10.84	10.74	10.89		
10	QPSK	1	49	10.75	10.86	10.69		
10	QPSK	25	0	10.69	10.92	10.70		



10	QPSK	25	12	10.51	10.63	10.75		
10	QPSK	25	25	10.61	10.60	10.58		
10	QPSK	50	0	10.49	10.85	10.64		
10	16QAM	1	0	10.54	10.58	10.56	11.8	0
10	16QAM	1	25	10.57	10.72	10.66		
10	16QAM	1	49	10.57	10.76	10.67		
10	16QAM	25	0	10.53	10.53	10.60	11.8	0
10	16QAM	25	12	10.68	10.71	10.77		
10	16QAM	25	25	10.71	10.61	10.54		
10	16QAM	50	0	10.66	10.67	10.82		
10	64QAM	1	0	10.64	10.77	10.79	11.8	0
10	64QAM	1	25	10.69	10.59	10.67		
10	64QAM	1	49	10.52	10.75	10.51		
10	64QAM	25	0	10.67	10.57	10.62	11.8	0
10	64QAM	25	12	10.75	10.65	10.66		
10	64QAM	25	25	10.83	10.62	10.76		
10	64QAM	50	0	10.53	10.72	10.60		
Channel				20775	21100	21425	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	10.68	10.92	10.59	11.8	0
5	QPSK	1	12	10.72	10.69	10.87		
5	QPSK	1	24	10.66	10.82	10.75		
5	QPSK	12	0	10.68	10.92	10.72	11.8	0
5	QPSK	12	7	10.61	10.54	10.78		
5	QPSK	12	13	10.61	10.64	10.74		
5	QPSK	25	0	10.56	10.92	10.65		
5	16QAM	1	0	10.52	10.65	10.67	11.8	0
5	16QAM	1	12	10.47	10.66	10.66		
5	16QAM	1	24	10.57	10.71	10.72		
5	16QAM	12	0	10.49	10.67	10.55	11.8	0
5	16QAM	12	7	10.68	10.65	10.70		
5	16QAM	12	13	10.74	10.61	10.55		
5	16QAM	25	0	10.70	10.59	10.73		
5	64QAM	1	0	10.64	10.72	10.77	11.8	0
5	64QAM	1	12	10.75	10.66	10.58		
5	64QAM	1	24	10.59	10.70	10.53		
5	64QAM	12	0	10.56	10.67	10.54	11.8	0
5	64QAM	12	7	10.66	10.67	10.70		
5	64QAM	12	13	10.78	10.63	10.74		
5	64QAM	25	0	10.63	10.81	10.50		



Band 12								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23060	23095	23130		
Frequency (MHz)				704	707.5	711		
10	QPSK	1	0	18.89	19.05	18.80	19.7	0
10	QPSK	1	25	18.98	18.92	18.90		
10	QPSK	1	49	18.94	18.87	18.78		
10	QPSK	25	0	18.79	19.01	18.90	19.7	0
10	QPSK	25	12	18.69	18.82	18.93		
10	QPSK	25	25	18.72	18.85	18.85		
10	QPSK	50	0	18.83	18.95	18.89		
10	16QAM	1	0	18.69	18.79	18.73	19.7	0
10	16QAM	1	25	18.72	18.88	18.75		
10	16QAM	1	49	18.68	18.89	18.76		
10	16QAM	25	0	18.69	18.80	18.83	19.7	0
10	16QAM	25	12	18.82	18.77	18.87		
10	16QAM	25	25	18.81	18.90	18.68		
10	16QAM	50	0	18.95	18.85	18.93		
10	64QAM	1	0	18.80	18.99	18.78	19.7	0
10	64QAM	1	25	18.89	18.78	18.76		
10	64QAM	1	49	18.73	18.81	18.74		
10	64QAM	25	0	18.75	18.80	18.72	19.7	0
10	64QAM	25	12	18.72	18.78	18.73		
10	64QAM	25	25	18.83	18.83	18.79		
10	64QAM	50	0	18.79	18.80	18.70		
Channel				23035	23095	23155	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	18.81	18.96	18.62	19.7	0
5	QPSK	1	12	18.95	18.77	18.80		
5	QPSK	1	24	18.79	18.69	18.70		
5	QPSK	12	0	18.71	18.89	18.78	19.7	0
5	QPSK	12	7	18.52	18.74	18.76		
5	QPSK	12	13	18.64	18.73	18.79		
5	QPSK	25	0	18.79	18.82	18.73		
5	16QAM	1	0	18.64	18.65	18.62	19.7	0
5	16QAM	1	12	18.56	18.83	18.62		
5	16QAM	1	24	18.57	18.79	18.65		
5	16QAM	12	0	18.56	18.69	18.75	19.7	0
5	16QAM	12	7	18.72	18.69	18.70		
5	16QAM	12	13	18.72	18.85	18.53		
5	16QAM	25	0	18.91	18.82	18.87		
5	64QAM	1	0	18.63	18.83	18.66	19.7	0
5	64QAM	1	12	18.76	18.72	18.73		
5	64QAM	1	24	18.67	18.78	18.70		
5	64QAM	12	0	18.67	18.69	18.65	19.7	0
5	64QAM	12	7	18.67	18.66	18.65		
5	64QAM	12	13	18.71	18.67	18.71		
5	64QAM	25	0	18.64	18.77	18.62		
Channel				23025	23095	23165	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	18.72	19.01	18.76	19.7	0
3	QPSK	1	8	18.95	18.77	18.78		
3	QPSK	1	14	18.83	18.83	18.65		
3	QPSK	8	0	18.72	18.88	18.83	19.7	0



3	QPSK	8	4	18.56	18.67	18.78		
3	QPSK	8	7	18.61	18.82	18.74		
3	QPSK	15	0	18.79	18.88	18.85		
3	16QAM	1	0	18.57	18.71	18.57	19.7	0
3	16QAM	1	8	18.59	18.72	18.73		
3	16QAM	1	14	18.62	18.77	18.67		
3	16QAM	8	0	18.56	18.77	18.73	19.7	0
3	16QAM	8	4	18.71	18.69	18.74		
3	16QAM	8	7	18.71	18.75	18.62		
3	16QAM	15	0	18.92	18.82	18.80		
3	64QAM	1	0	18.75	18.84	18.66	19.7	0
3	64QAM	1	8	18.78	18.70	18.73		
3	64QAM	1	14	18.70	18.69	18.66		
3	64QAM	8	0	18.65	18.65	18.63	19.7	0
3	64QAM	8	4	18.67	18.63	18.59		
3	64QAM	8	7	18.81	18.65	18.77		
3	64QAM	15	0	18.72	18.72	18.67		
Channel				23017	23095	23173	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	18.85	18.90	18.73	19.7	0
1.4	QPSK	1	3	18.80	18.80	18.74		
1.4	QPSK	1	5	18.89	18.70	18.64		
1.4	QPSK	3	0	18.67	18.94	18.82		
1.4	QPSK	3	1	18.65	18.67	18.80		
1.4	QPSK	3	3	18.63	18.80	18.82		
1.4	QPSK	6	0	18.77	18.86	18.81	19.7	0
1.4	16QAM	1	0	18.52	18.73	18.69	19.7	0
1.4	16QAM	1	3	18.60	18.70	18.72		
1.4	16QAM	1	5	18.61	18.71	18.66		
1.4	16QAM	3	0	18.57	18.78	18.77		
1.4	16QAM	3	1	18.77	18.72	18.71		
1.4	16QAM	3	3	18.73	18.86	18.50		
1.4	16QAM	6	0	18.89	18.73	18.82	19.7	0
1.4	64QAM	1	0	18.76	18.85	18.69	19.7	0
1.4	64QAM	1	3	18.74	18.70	18.66		
1.4	64QAM	1	5	18.67	18.67	18.70		
1.4	64QAM	3	0	18.59	18.76	18.66		
1.4	64QAM	3	1	18.55	18.60	18.56		
1.4	64QAM	3	3	18.78	18.67	18.67		
1.4	64QAM	6	0	18.67	18.71	18.61	19.7	0



Band 13								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23230			20	0
Frequency (MHz)				782				
10	QPSK	1	0		19.26		20	0
10	QPSK	1	25		18.93			
10	QPSK	1	49		18.97			
10	QPSK	25	0		19.08		20	0
10	QPSK	25	12		18.84			
10	QPSK	25	25		18.96			
10	QPSK	50	0		18.99		20	0
10	16QAM	1	0		18.87			
10	16QAM	1	25		18.89			
10	16QAM	1	49		18.92		20	0
10	16QAM	25	0		18.80			
10	16QAM	25	12		18.90			
10	16QAM	25	25		19.00		20	0
10	16QAM	50	0		18.86			
10	64QAM	1	0		19.09			
10	64QAM	1	25		18.84		20	0
10	64QAM	1	49		18.91			
10	64QAM	25	0		18.93			
10	64QAM	25	12		18.79		20	0
10	64QAM	25	25		18.96			
10	64QAM	50	0		18.83			
Channel				23205	23230	23255	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				779.5	782	784.5	20	0
5	QPSK	1	0	19.06	19.02	18.97		
5	QPSK	1	12	18.84	18.85	18.78	20	0
5	QPSK	1	24	18.85	18.85	18.91		
5	QPSK	12	0	18.99	18.93	19.05		
5	QPSK	12	7	18.69	18.72	18.73	20	0
5	QPSK	12	13	18.94	18.88	18.82		
5	QPSK	25	0	18.94	18.93	18.84		
5	16QAM	1	0	18.76	18.82	18.79	20	0
5	16QAM	1	12	18.79	18.75	18.76		
5	16QAM	1	24	18.90	18.82	18.89		
5	16QAM	12	0	18.80	18.73	18.65	20	0
5	16QAM	12	7	18.76	18.78	18.81		
5	16QAM	12	13	18.92	18.92	19.00		
5	16QAM	25	0	18.84	18.75	18.79	20	0
5	64QAM	1	0	19.02	19.05	19.05		
5	64QAM	1	12	18.75	18.76	18.81		
5	64QAM	1	24	18.79	18.87	18.75	20	0
5	64QAM	12	0	18.85	18.88	18.86		
5	64QAM	12	7	18.68	18.75	18.77		
5	64QAM	12	13	18.84	18.82	18.85	20	0
5	64QAM	25	0	18.82	18.68	18.80		



Band 14								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23330			20.3	0
Frequency (MHz)				793				
10	QPSK	1	0		19.49		20.3	0
10	QPSK	1	25		19.20			
10	QPSK	1	49		19.30			
10	QPSK	25	0		19.45		20.3	0
10	QPSK	25	12		19.14			
10	QPSK	25	25		19.37			
10	QPSK	50	0		19.38		20.3	0
10	16QAM	1	0		19.22			
10	16QAM	1	25		19.17			
10	16QAM	1	49		19.31		20.3	0
10	16QAM	25	0		19.18			
10	16QAM	25	12		19.26			
10	16QAM	25	25		19.36		20.3	0
10	16QAM	50	0		19.23			
10	64QAM	1	0		19.40			
10	64QAM	1	25		19.16		20.3	0
10	64QAM	1	49		19.29			
10	64QAM	25	0		19.25			
10	64QAM	25	12		19.15		20.3	0
10	64QAM	25	25		19.25			
10	64QAM	50	0		19.10			
Channel				23305	23330	23355	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				790.5	793	795.5	20.3	0
5	QPSK	1	0	19.38	19.42	19.33		
5	QPSK	1	12	19.12	19.14	19.15	20.3	0
5	QPSK	1	24	19.23	19.16	19.22		
5	QPSK	12	0	19.33	19.43	19.36		
5	QPSK	12	7	19.12	19.10	19.00	20.3	0
5	QPSK	12	13	19.19	19.31	19.21		
5	QPSK	25	0	19.23	19.23	19.30		
5	16QAM	1	0	19.12	19.05	19.14	20.3	0
5	16QAM	1	12	19.00	19.12	19.09		
5	16QAM	1	24	19.28	19.27	19.24		
5	16QAM	12	0	19.15	19.13	19.03	20.3	0
5	16QAM	12	7	19.15	19.18	19.18		
5	16QAM	12	13	19.18	19.31	19.28		
5	16QAM	25	0	19.07	19.06	19.06	20.3	0
5	64QAM	1	0	19.22	19.33	19.29		
5	64QAM	1	12	19.08	18.98	19.04		
5	64QAM	1	24	19.27	19.24	19.21	20.3	0
5	64QAM	12	0	19.14	19.08	19.12		
5	64QAM	12	7	19.03	18.98	19.03		
5	64QAM	12	13	19.11	19.20	19.17	20.3	0
5	64QAM	25	0	18.92	19.02	19.07		



Band 17								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				23780	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	18.84	18.96	18.73	19.7	0
10	QPSK	1	25	18.86	18.87	18.80		
10	QPSK	1	49	18.88	18.76	18.69		
10	QPSK	25	0	18.70	18.86	18.78	19.7	0
10	QPSK	25	12	18.54	18.75	18.78		
10	QPSK	25	25	18.70	18.81	18.69		
10	QPSK	50	0	18.73	18.85	18.82		
10	16QAM	1	0	18.58	18.72	18.60	19.7	0
10	16QAM	1	25	18.66	18.75	18.63		
10	16QAM	1	49	18.53	18.84	18.60		
10	16QAM	25	0	18.65	18.76	18.66	19.7	0
10	16QAM	25	12	18.67	18.65	18.72		
10	16QAM	25	25	18.67	18.76	18.51		
10	16QAM	50	0	18.90	18.74	18.80		
10	64QAM	1	0	18.78	18.86	18.67	19.7	0
10	64QAM	1	25	18.75	18.61	18.74		
10	64QAM	1	49	18.58	18.64	18.59		
10	64QAM	25	0	18.66	18.74	18.69	19.7	0
10	64QAM	25	12	18.61	18.66	18.64		
10	64QAM	25	25	18.78	18.75	18.65		
10	64QAM	50	0	18.69	18.65	18.61		
Channel				23755	23790	23825	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	18.72	18.86	18.65	19.7	0
5	QPSK	1	12	18.71	18.79	18.67		
5	QPSK	1	24	18.84	18.65	18.58		
5	QPSK	12	0	18.55	18.77	18.73	19.7	0
5	QPSK	12	7	18.43	18.71	18.68		
5	QPSK	12	13	18.54	18.73	18.64		
5	QPSK	25	0	18.61	18.71	18.66		
5	16QAM	1	0	18.50	18.60	18.49	19.7	0
5	16QAM	1	12	18.61	18.66	18.57		
5	16QAM	1	24	18.39	18.75	18.49		
5	16QAM	12	0	18.59	18.62	18.49	19.7	0
5	16QAM	12	7	18.54	18.52	18.57		
5	16QAM	12	13	18.55	18.63	18.40		
5	16QAM	25	0	18.82	18.70	18.68		
5	64QAM	1	0	18.75	18.82	18.62	19.7	0
5	64QAM	1	12	18.69	18.48	18.61		
5	64QAM	1	24	18.44	18.51	18.48		
5	64QAM	12	0	18.57	18.68	18.64	19.7	0
5	64QAM	12	7	18.47	18.58	18.57		
5	64QAM	12	13	18.71	18.63	18.57		
5	64QAM	25	0	18.67	18.59	18.47		



Band 25								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26140	26340	26590		
Frequency (MHz)				1860	1880	1905		
20	QPSK	1	0	16.24	16.44	16.28	17.5	0
20	QPSK	1	49	16.24	16.38	16.28		
20	QPSK	1	99	16.26	16.21	16.20		
20	QPSK	50	0	16.23	16.38	16.36	17.5	0
20	QPSK	50	24	16.05	16.29	16.36		
20	QPSK	50	50	16.05	16.23	16.26		
20	QPSK	100	0	16.12	16.30	16.28		
20	16QAM	1	0	16.08	16.22	16.04	17.5	0
20	16QAM	1	49	16.20	16.35	16.26		
20	16QAM	1	99	16.10	16.24	16.16		
20	16QAM	50	0	16.11	16.23	16.25	17.5	0
20	16QAM	50	24	16.36	16.16	16.16		
20	16QAM	50	50	16.23	16.27	16.03		
20	16QAM	100	0	16.29	16.31	16.29		
20	64QAM	1	0	16.23	16.33	16.22	17.5	0
20	64QAM	1	49	16.35	16.15	16.23		
20	64QAM	1	99	16.17	16.20	16.08		
20	64QAM	50	0	16.16	16.22	16.14	17.5	0
20	64QAM	50	24	16.25	16.15	16.24		
20	64QAM	50	50	16.33	16.23	16.22		
20	64QAM	100	0	16.16	16.29	16.15		
Channel				26115	26340	26615	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1907.5		
15	QPSK	1	0	16.17	16.41	16.25	17.5	0
15	QPSK	1	37	16.21	16.25	16.26		
15	QPSK	1	74	16.12	16.18	16.08		
15	QPSK	36	0	16.13	16.34	16.22	17.5	0
15	QPSK	36	20	16.02	16.23	16.21		
15	QPSK	36	39	16.02	16.14	16.09		
15	QPSK	75	0	16.02	16.21	16.19		
15	16QAM	1	0	15.93	16.11	15.94	17.5	0
15	16QAM	1	37	16.11	16.18	16.18		
15	16QAM	1	74	15.93	16.13	16.07		
15	16QAM	36	0	16.06	16.16	16.17	17.5	0
15	16QAM	36	20	16.25	16.07	16.11		
15	16QAM	36	39	16.11	16.18	15.98		
15	16QAM	75	0	16.14	16.15	16.16		
15	64QAM	1	0	16.09	16.22	16.09	17.5	0
15	64QAM	1	37	16.22	15.98	16.17		
15	64QAM	1	74	16.08	16.11	15.97		
15	64QAM	36	0	16.05	16.08	16.05	17.5	0
15	64QAM	36	20	16.19	16.04	16.14		
15	64QAM	36	39	16.27	16.06	16.12		
15	64QAM	75	0	16.06	16.13	16.10		
Channel				26090	26340	26640	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1910		
10	QPSK	1	0	16.10	16.35	16.26	17.5	0
10	QPSK	1	25	16.10	16.22	16.12		
10	QPSK	1	49	16.09	16.11	16.02		
10	QPSK	25	0	16.14	16.24	16.29	17.5	0



10	QPSK	25	12	15.99	16.17	16.27		
10	QPSK	25	25	15.91	16.20	16.14		
10	QPSK	50	0	16.03	16.23	16.21		
10	16QAM	1	0	16.04	16.12	15.93	17.5	0
10	16QAM	1	25	16.08	16.28	16.12		
10	16QAM	1	49	15.97	16.12	16.08		
10	16QAM	25	0	16.03	16.20	16.17	17.5	0
10	16QAM	25	12	16.23	16.00	15.99		
10	16QAM	25	25	16.17	16.13	15.85		
10	16QAM	50	0	16.26	16.27	16.12		
10	64QAM	1	0	16.05	16.29	16.13	17.5	0
10	64QAM	1	25	16.20	16.10	16.08		
10	64QAM	1	49	16.11	16.02	15.93		
10	64QAM	25	0	16.05	16.16	16.06	17.5	0
10	64QAM	25	12	16.12	16.04	16.19		
10	64QAM	25	25	16.17	16.07	16.09		
10	64QAM	50	0	16.05	16.26	16.12		
Channel				26065	26340	26665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1912.5		
5	QPSK	1	0	16.15	16.29	16.13	17.5	0
5	QPSK	1	12	16.15	16.21	16.20		
5	QPSK	1	24	16.21	16.11	16.04		
5	QPSK	12	0	16.15	16.32	16.32	17.5	0
5	QPSK	12	7	15.89	16.20	16.18		
5	QPSK	12	13	16.02	16.19	16.20		
5	QPSK	25	0	15.96	16.27	16.17		
5	16QAM	1	0	15.97	16.18	16.00	17.5	0
5	16QAM	1	12	16.12	16.18	16.15		
5	16QAM	1	24	16.05	16.21	16.11		
5	16QAM	12	0	16.05	16.09	16.14	17.5	0
5	16QAM	12	7	16.20	16.10	16.03		
5	16QAM	12	13	16.08	16.14	15.92		
5	16QAM	25	0	16.27	16.24	16.14		
5	64QAM	1	0	16.08	16.21	16.06		
5	64QAM	1	12	16.33	15.98	16.14	17.5	0
5	64QAM	1	24	16.02	16.09	16.01		
5	64QAM	12	0	16.00	16.17	16.08		
5	64QAM	12	7	16.07	16.04	16.20	17.5	0
5	64QAM	12	13	16.27	16.15	16.11		
5	64QAM	25	0	16.11	16.24	16.13		
5	64QAM	25	0	16.11	16.24	16.13		
Channel				26055	26340	26675	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1913.5		
3	QPSK	1	0	16.16	16.31	16.24	17.5	0
3	QPSK	1	8	16.15	16.33	16.21		
3	QPSK	1	14	16.12	16.13	16.14		
3	QPSK	8	0	16.16	16.27	16.28	17.5	0
3	QPSK	8	4	15.93	16.12	16.27		
3	QPSK	8	7	15.88	16.09	16.21		
3	QPSK	15	0	15.95	16.22	16.14		
3	16QAM	1	0	16.05	16.10	15.99	17.5	0
3	16QAM	1	8	16.10	16.26	16.20		
3	16QAM	1	14	15.98	16.10	16.07		
3	16QAM	8	0	16.08	16.17	16.08	17.5	0
3	16QAM	8	4	16.27	16.00	16.07		
3	16QAM	8	7	16.13	16.15	15.93		
3	16QAM	15	0	16.19	16.28	16.21		
3	16QAM	15	0	16.19	16.28	16.21		



3	64QAM	1	0	16.06	16.19	16.18	17.5	0
3	64QAM	1	8	16.28	16.01	16.11		
3	64QAM	1	14	16.11	16.09	16.03		
3	64QAM	8	0	16.10	16.06	16.08	17.5	0
3	64QAM	8	4	16.13	16.00	16.20		
3	64QAM	8	7	16.28	16.16	16.18		
3	64QAM	15	0	16.04	16.20	16.05		
Channel				26047	26340	26683	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1914.3		
1.4	QPSK	1	0	16.13	16.31	16.22	17.5	0
1.4	QPSK	1	3	16.11	16.20	16.20		
1.4	QPSK	1	5	16.12	16.11	16.16		
1.4	QPSK	3	0	16.09	16.21	16.19		
1.4	QPSK	3	1	15.94	16.27	16.24		
1.4	QPSK	3	3	16.01	16.18	16.14		
1.4	QPSK	6	0	16.03	16.21	16.25	17.5	0
1.4	16QAM	1	0	16.04	16.15	16.01	17.5	0
1.4	16QAM	1	3	16.05	16.21	16.22		
1.4	16QAM	1	5	15.97	16.19	16.02		
1.4	16QAM	3	0	16.03	16.19	16.13		
1.4	16QAM	3	1	16.33	15.99	16.02		
1.4	16QAM	3	3	16.21	16.23	15.89		
1.4	16QAM	6	0	16.16	16.27	16.12	17.5	0
1.4	64QAM	1	0	16.09	16.29	16.15	17.5	0
1.4	64QAM	1	3	16.32	16.04	16.11		
1.4	64QAM	1	5	16.08	16.09	16.01		
1.4	64QAM	3	0	16.06	16.09	16.05		
1.4	64QAM	3	1	16.19	16.03	16.12		
1.4	64QAM	3	3	16.23	16.16	16.05		
1.4	64QAM	6	0	16.10	16.13	16.02	17.5	0



Band 26								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	19.83	19.91	19.74	20.6	0
15	QPSK	1	37	19.85	19.84	19.87		
15	QPSK	1	74	19.76	19.78	19.65		
15	QPSK	36	0	19.75	19.87	19.80	20.6	0
15	QPSK	36	20	19.64	19.75	19.81		
15	QPSK	36	39	19.57	19.68	19.82		
15	QPSK	75	0	19.57	19.83	19.80	20.6	0
15	16QAM	1	0	19.68	19.68	19.64		
15	16QAM	1	37	19.68	19.74	19.62		
15	16QAM	1	74	19.70	19.82	19.70	20.6	0
15	16QAM	36	0	19.68	19.67	19.72		
15	16QAM	36	20	19.73	19.69	19.71		
15	16QAM	36	39	19.77	19.72	19.62	20.6	0
15	16QAM	75	0	19.78	19.74	19.86		
15	64QAM	1	0	19.77	19.83	19.67		
15	64QAM	1	37	19.76	19.58	19.65	20.6	0
15	64QAM	1	74	19.70	19.84	19.55		
15	64QAM	36	0	19.61	19.69	19.59		
15	64QAM	36	20	19.60	19.54	19.67	20.6	0
15	64QAM	36	39	19.75	19.70	19.77		
15	64QAM	75	0	19.68	19.76	19.53		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	19.77	19.84	19.70	20.6	0
10	QPSK	1	25	19.71	19.67	19.83		
10	QPSK	1	49	19.60	19.74	19.62		
10	QPSK	25	0	19.65	19.75	19.72	20.6	0
10	QPSK	25	12	19.55	19.65	19.77		
10	QPSK	25	25	19.47	19.56	19.69		
10	QPSK	50	0	19.54	19.68	19.69	20.6	0
10	16QAM	1	0	19.52	19.52	19.60		
10	16QAM	1	25	19.53	19.67	19.60		
10	16QAM	1	49	19.56	19.80	19.66	20.6	0
10	16QAM	25	0	19.61	19.59	19.60		
10	16QAM	25	12	19.58	19.55	19.61		
10	16QAM	25	25	19.68	19.66	19.53	20.6	0
10	16QAM	50	0	19.65	19.63	19.76		
10	64QAM	1	0	19.62	19.78	19.57		
10	64QAM	1	25	19.67	19.46	19.56	20.6	0
10	64QAM	1	49	19.62	19.72	19.47		
10	64QAM	25	0	19.53	19.62	19.55		
10	64QAM	25	12	19.43	19.45	19.52	20.6	0
10	64QAM	25	25	19.58	19.65	19.72		
10	64QAM	50	0	19.51	19.63	19.50		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	19.72	19.80	19.56	20.6	0
5	QPSK	1	12	19.78	19.82	19.79		
5	QPSK	1	24	19.61	19.68	19.60		
5	QPSK	12	0	19.61	19.80	19.66	20.6	0



5	QPSK	12	7	19.61	19.57	19.73		
5	QPSK	12	13	19.42	19.66	19.72		
5	QPSK	25	0	19.53	19.67	19.76		
5	16QAM	1	0	19.60	19.55	19.60	20.6	0
5	16QAM	1	12	19.62	19.66	19.48		
5	16QAM	1	24	19.64	19.65	19.64		
5	16QAM	12	0	19.61	19.55	19.68	20.6	0
5	16QAM	12	7	19.56	19.57	19.68		
5	16QAM	12	13	19.61	19.68	19.59		
5	16QAM	25	0	19.62	19.61	19.83		
5	64QAM	1	0	19.65	19.77	19.51	20.6	0
5	64QAM	1	12	19.66	19.47	19.53		
5	64QAM	1	24	19.63	19.70	19.38		
5	64QAM	12	0	19.53	19.61	19.55	20.6	0
5	64QAM	12	7	19.47	19.51	19.55		
5	64QAM	12	13	19.58	19.60	19.61		
5	64QAM	25	0	19.51	19.65	19.44		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	19.67	19.74	19.66	20.6	0
3	QPSK	1	8	19.68	19.70	19.73		
3	QPSK	1	14	19.60	19.73	19.49		
3	QPSK	8	0	19.64	19.82	19.72	20.6	0
3	QPSK	8	4	19.53	19.67	19.70		
3	QPSK	8	7	19.55	19.66	19.66		
3	QPSK	15	0	19.41	19.79	19.67		
3	16QAM	1	0	19.61	19.52	19.56	20.6	0
3	16QAM	1	8	19.57	19.58	19.57		
3	16QAM	1	14	19.67	19.70	19.54		
3	16QAM	8	0	19.61	19.64	19.69	20.6	0
3	16QAM	8	4	19.61	19.65	19.56		
3	16QAM	8	7	19.65	19.65	19.44		
3	16QAM	15	0	19.66	19.57	19.75		
3	64QAM	1	0	19.73	19.72	19.55	20.6	0
3	64QAM	1	8	19.58	19.53	19.62		
3	64QAM	1	14	19.64	19.69	19.45		
3	64QAM	8	0	19.49	19.61	19.52	20.6	0
3	64QAM	8	4	19.48	19.37	19.56		
3	64QAM	8	7	19.71	19.64	19.68		
3	64QAM	15	0	19.59	19.66	19.48		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	19.68	19.76	19.62	20.6	0
1.4	QPSK	1	3	19.81	19.80	19.70		
1.4	QPSK	1	5	19.70	19.69	19.51		
1.4	QPSK	3	0	19.58	19.79	19.75		
1.4	QPSK	3	1	19.47	19.72	19.65	20.6	0
1.4	QPSK	3	3	19.45	19.61	19.77		
1.4	QPSK	6	0	19.46	19.65	19.68		
1.4	16QAM	1	0	19.61	19.61	19.48	20.6	0
1.4	16QAM	1	3	19.65	19.59	19.53		
1.4	16QAM	1	5	19.52	19.68	19.53		
1.4	16QAM	3	0	19.57	19.52	19.65		
1.4	16QAM	3	1	19.58	19.57	19.59	20.6	0
1.4	16QAM	3	3	19.69	19.54	19.56		
1.4	16QAM	6	0	19.72	19.60	19.73		



1.4	64QAM	1	0	19.71	19.72	19.61	20.6	0
1.4	64QAM	1	3	19.67	19.46	19.48		
1.4	64QAM	1	5	19.57	19.71	19.49		
1.4	64QAM	3	0	19.44	19.63	19.48		
1.4	64QAM	3	1	19.52	19.39	19.52		
1.4	64QAM	3	3	19.65	19.59	19.74		
1.4	64QAM	6	0	19.58	19.68	19.36	20.6	0

Band 66								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572	17.1	0
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	16.21	16.25	16.18		
20	QPSK	1	49	16.01	16.10	16.10	17.1	0
20	QPSK	1	99	16.04	16.14	16.02		
20	QPSK	50	0	16.05	16.12	16.10		
20	QPSK	50	24	15.92	16.10	16.09	17.1	0
20	QPSK	50	50	15.91	16.04	16.03		
20	QPSK	100	0	16.00	16.05	16.01		
20	16QAM	1	0	15.89	16.03	15.84	17.1	0
20	16QAM	1	49	16.01	16.12	15.94		
20	16QAM	1	99	15.96	16.03	15.91		
20	16QAM	50	0	15.84	16.01	16.00	17.1	0
20	16QAM	50	24	16.13	15.96	16.04		
20	16QAM	50	50	15.97	16.05	15.86		
20	16QAM	100	0	16.00	16.03	16.13	17.1	0
20	64QAM	1	0	16.04	16.10	16.02		
20	64QAM	1	49	16.13	16.01	15.98		
20	64QAM	1	99	15.93	16.03	15.93	17.1	0
20	64QAM	50	0	15.91	15.97	15.99		
20	64QAM	50	24	16.00	15.97	15.96		
20	64QAM	50	50	16.01	16.07	15.97	17.1	0
20	64QAM	100	0	16.03	16.04	15.89		
Channel				132047	132322	132597		
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	16.03	16.10	15.97		
15	QPSK	1	37	15.99	15.94	16.05	17.1	0
15	QPSK	1	74	15.87	16.05	15.88		
15	QPSK	36	0	15.84	16.05	15.94		
15	QPSK	36	20	15.87	16.06	15.96	17.1	0
15	QPSK	36	39	15.84	15.88	15.99		
15	QPSK	75	0	15.86	15.98	15.92		
15	16QAM	1	0	15.77	15.91	15.81	17.1	0
15	16QAM	1	37	15.84	16.06	15.92		
15	16QAM	1	74	15.87	15.85	15.87		
15	16QAM	36	0	15.81	15.84	15.84	17.1	0
15	16QAM	36	20	16.08	15.80	15.92		
15	16QAM	36	39	15.93	15.98	15.83		
15	16QAM	75	0	15.94	15.86	16.08	17.1	0
15	64QAM	1	0	16.01	15.97	15.99		
15	64QAM	1	37	16.08	15.95	15.84		
15	64QAM	1	74	15.87	15.87	15.86	17.1	0
15	64QAM	36	0	15.78	15.87	15.87		
15	64QAM	36	20	15.86	15.85	15.83		
15	64QAM	36	39	15.96	15.95	15.91	17.1	0



15	64QAM	75	0	15.92	15.90	15.82		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	15.92	16.17	15.91	17.1	0
10	QPSK	1	25	15.92	16.00	16.01		
10	QPSK	1	49	16.00	16.09	15.89		
10	QPSK	25	0	15.97	15.94	16.07	17.1	0
10	QPSK	25	12	15.75	16.01	16.02		
10	QPSK	25	25	15.78	15.87	15.97		
10	QPSK	50	0	15.86	15.93	15.85	17.1	0
10	16QAM	1	0	15.78	15.88	15.81		
10	16QAM	1	25	15.93	16.06	15.78		
10	16QAM	1	49	15.81	15.90	15.74	17.1	0
10	16QAM	25	0	15.79	15.95	15.83		
10	16QAM	25	12	16.06	15.80	16.00		
10	16QAM	25	25	15.86	15.97	15.75	17.1	0
10	16QAM	50	0	15.91	15.88	16.08		
10	64QAM	1	0	15.94	15.99	15.90		
10	64QAM	1	25	16.02	15.96	15.89	17.1	0
10	64QAM	1	49	15.88	15.87	15.82		
10	64QAM	25	0	15.76	15.93	15.83		
10	64QAM	25	12	15.86	15.85	15.91	17.1	0
10	64QAM	25	25	15.83	16.02	15.84		
10	64QAM	50	0	15.96	15.95	15.87		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	16.03	16.13	15.88	17.1	0
5	QPSK	1	12	15.92	16.04	15.96		
5	QPSK	1	24	15.90	15.96	15.94		
5	QPSK	12	0	15.82	16.04	15.99	17.1	0
5	QPSK	12	7	15.75	16.00	15.95		
5	QPSK	12	13	15.86	15.92	15.94		
5	QPSK	25	0	15.93	15.88	15.91	17.1	0
5	16QAM	1	0	15.72	15.87	15.70		
5	16QAM	1	12	15.87	15.96	15.87		
5	16QAM	1	24	15.83	15.86	15.84	17.1	0
5	16QAM	12	0	15.73	15.85	15.94		
5	16QAM	12	7	16.10	15.79	15.90		
5	16QAM	12	13	15.81	15.90	15.77	17.1	0
5	16QAM	25	0	15.96	15.95	15.97		
5	64QAM	1	0	15.96	16.00	15.95		
5	64QAM	1	12	16.10	15.91	15.88	17.1	0
5	64QAM	1	24	15.85	15.87	15.87		
5	64QAM	12	0	15.78	15.83	15.90		
5	64QAM	12	7	15.86	15.82	15.82	17.1	0
5	64QAM	12	13	15.92	15.95	15.85		
5	64QAM	25	0	15.98	15.93	15.83		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	15.92	16.21	16.01	17.1	0
3	QPSK	1	8	15.90	15.96	15.97		
3	QPSK	1	14	16.01	16.09	15.97		
3	QPSK	8	0	15.95	16.01	16.04	17.1	0
3	QPSK	8	4	15.78	15.92	15.91		
3	QPSK	8	7	15.79	15.87	15.90		
3	QPSK	15	0	15.94	16.02	15.91		



3	16QAM	1	0	15.74	15.98	15.70	17.1	0
3	16QAM	1	8	15.92	16.00	15.83		
3	16QAM	1	14	15.89	16.00	15.77		
3	16QAM	8	0	15.80	15.95	15.83	17.1	0
3	16QAM	8	4	16.07	15.87	15.88		
3	16QAM	8	7	15.85	15.90	15.73		
3	16QAM	15	0	15.87	15.88	16.11	17.1	0
3	64QAM	1	0	15.97	15.94	15.94		
3	64QAM	1	8	15.97	15.98	15.87		
3	64QAM	1	14	15.87	15.93	15.87	17.1	0
3	64QAM	8	0	15.74	15.91	15.84		
3	64QAM	8	4	15.96	15.85	15.91		
3	64QAM	8	7	15.88	16.04	15.86	17.1	0
3	64QAM	15	0	15.92	15.88	15.82		
Channel				131979	132322	132665		
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	15.93	16.08	15.88	17.1	0
1.4	QPSK	1	3	15.94	16.01	16.04		
1.4	QPSK	1	5	15.87	15.97	15.87		
1.4	QPSK	3	0	15.83	16.01	15.93		
1.4	QPSK	3	1	15.89	16.02	16.07		
1.4	QPSK	3	3	15.80	15.87	15.90		
1.4	QPSK	6	0	15.91	15.99	15.85	17.1	0
1.4	16QAM	1	0	15.73	15.98	15.75	17.1	0
1.4	16QAM	1	3	15.98	15.95	15.77		
1.4	16QAM	1	5	15.87	15.98	15.73		
1.4	16QAM	3	0	15.69	15.92	15.88		
1.4	16QAM	3	1	15.96	15.92	15.90		
1.4	16QAM	3	3	15.95	15.96	15.77		
1.4	16QAM	6	0	15.85	15.95	16.05	17.1	0
1.4	64QAM	1	0	15.95	16.05	15.99	17.1	0
1.4	64QAM	1	3	15.99	15.89	15.93		
1.4	64QAM	1	5	15.84	15.92	15.89		
1.4	64QAM	3	0	15.78	15.87	15.82		
1.4	64QAM	3	1	15.94	15.83	15.83		
1.4	64QAM	3	3	15.89	16.03	15.90		
1.4	64QAM	6	0	15.95	15.91	15.72	17.1	0



Band 71								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				133222	133322	133372		
Frequency (MHz)				673	683	688		
20	QPSK	1	0	18.49	18.80	18.54	20	0
20	QPSK	1	49	18.60	18.53	18.68		
20	QPSK	1	99	18.60	18.67	18.56		
20	QPSK	50	0	18.57	18.76	18.65	20	0
20	QPSK	50	24	18.40	18.57	18.57		
20	QPSK	50	50	18.39	18.49	18.46		
20	QPSK	100	0	18.44	18.74	18.53		
20	16QAM	1	0	18.45	18.48	18.41	20	0
20	16QAM	1	49	18.53	18.66	18.38		
20	16QAM	1	99	18.41	18.58	18.42		
20	16QAM	50	0	18.35	18.58	18.57	20	0
20	16QAM	50	24	18.66	18.53	18.58		
20	16QAM	50	50	18.43	18.56	18.29		
20	16QAM	100	0	18.49	18.62	18.67		
20	64QAM	1	0	18.50	18.62	18.57	20	0
20	64QAM	1	49	18.62	18.53	18.42		
20	64QAM	1	99	18.52	18.57	18.40		
20	64QAM	50	0	18.37	18.44	18.47	20	0
20	64QAM	50	24	18.57	18.44	18.53		
20	64QAM	50	50	18.51	18.61	18.54		
20	64QAM	100	0	18.52	18.59	18.48		
Channel				133197	133297	133397	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				670.5	680.5	690.5		
15	QPSK	1	0	18.34	18.70	18.47	20	0
15	QPSK	1	37	18.42	18.45	18.63		
15	QPSK	1	74	18.43	18.65	18.44		
15	QPSK	36	0	18.49	18.73	18.48	20	0
15	QPSK	36	20	18.34	18.50	18.48		
15	QPSK	36	39	18.31	18.36	18.40		
15	QPSK	75	0	18.27	18.57	18.40		
15	16QAM	1	0	18.42	18.31	18.30	20	0
15	16QAM	1	37	18.49	18.60	18.31		
15	16QAM	1	74	18.25	18.48	18.37		
15	16QAM	36	0	18.19	18.52	18.49	20	0
15	16QAM	36	20	18.58	18.48	18.56		
15	16QAM	36	39	18.31	18.40	18.27		
15	16QAM	75	0	18.47	18.46	18.64		
15	64QAM	1	0	18.47	18.50	18.49	20	0
15	64QAM	1	37	18.47	18.42	18.29		
15	64QAM	1	74	18.34	18.48	18.35		
15	64QAM	36	0	18.25	18.39	18.43	20	0
15	64QAM	36	20	18.51	18.32	18.42		
15	64QAM	36	39	18.37	18.56	18.36		
15	64QAM	75	0	18.36	18.52	18.33		
Channel				133172	133272	133422	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				668	678	693		
10	QPSK	1	0	18.37	18.73	18.46	20	0
10	QPSK	1	25	18.43	18.47	18.59		
10	QPSK	1	49	18.52	18.56	18.45		
10	QPSK	25	0	18.46	18.64	18.63		



10	QPSK	25	12	18.28	18.44	18.54		
10	QPSK	25	25	18.22	18.42	18.41		
10	QPSK	50	0	18.34	18.68	18.44		
10	16QAM	1	0	18.33	18.45	18.39	20	0
10	16QAM	1	25	18.46	18.48	18.33		
10	16QAM	1	49	18.27	18.43	18.32		
10	16QAM	25	0	18.24	18.45	18.47	20	0
10	16QAM	25	12	18.56	18.50	18.53		
10	16QAM	25	25	18.31	18.42	18.19		
10	16QAM	50	0	18.34	18.53	18.62		
10	64QAM	1	0	18.46	18.46	18.40	20	0
10	64QAM	1	25	18.55	18.42	18.24		
10	64QAM	1	49	18.41	18.42	18.23		
10	64QAM	25	0	18.33	18.28	18.40	20	0
10	64QAM	25	12	18.41	18.34	18.38		
10	64QAM	25	25	18.38	18.44	18.42		
10	64QAM	50	0	18.36	18.41	18.45		
Channel				133147	133247	133447	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				665.5	675.5	695.5		
5	QPSK	1	0	18.42	18.78	18.40	20	0
5	QPSK	1	12	18.49	18.44	18.61		
5	QPSK	1	24	18.56	18.63	18.49		
5	QPSK	12	0	18.45	18.59	18.49	20	0
5	QPSK	12	7	18.26	18.40	18.43		
5	QPSK	12	13	18.26	18.31	18.44		
5	QPSK	25	0	18.27	18.70	18.50		
5	16QAM	1	0	18.27	18.39	18.31	20	0
5	16QAM	1	12	18.43	18.54	18.23		
5	16QAM	1	24	18.28	18.51	18.24		
5	16QAM	12	0	18.23	18.42	18.52	20	0
5	16QAM	12	7	18.59	18.42	18.40		
5	16QAM	12	13	18.37	18.51	18.25		
5	16QAM	25	0	18.46	18.44	18.54		
5	64QAM	1	0	18.47	18.49	18.42	20	0
5	64QAM	1	12	18.58	18.50	18.39		
5	64QAM	1	24	18.39	18.44	18.27		
5	64QAM	12	0	18.26	18.41	18.31	20	0
5	64QAM	12	7	18.47	18.31	18.36		
5	64QAM	12	13	18.37	18.53	18.47		
5	64QAM	25	0	18.50	18.42	18.41		



Ant2

Band 2 ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				18700	18900	19100		
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	15.26	15.35	15.23	16.4	0
20	QPSK	1	49	15.12	15.17	15.09		
20	QPSK	1	99	15.15	15.20	15.18		
20	QPSK	50	0	15.12	15.21	15.12	16.4	0
20	QPSK	50	24	15.00	15.15	15.06		
20	QPSK	50	50	14.98	15.12	15.00		
20	QPSK	100	0	15.05	15.18	15.15	16.4	0
20	16QAM	1	0	15.09	15.26	15.19		
20	16QAM	1	49	14.99	15.14	15.06		
20	16QAM	1	99	15.17	15.24	15.12	16.4	0
20	16QAM	50	0	14.99	15.11	15.07		
20	16QAM	50	24	14.95	15.05	14.90		
20	16QAM	50	50	15.00	15.08	14.98	16.4	0
20	16QAM	100	0	15.00	15.03	14.99		
20	64QAM	1	0	15.15	15.23	15.21		
20	64QAM	1	49	15.05	15.10	14.94	16.4	0
20	64QAM	1	99	15.08	15.22	15.05		
20	64QAM	50	0	15.05	15.09	15.05		
20	64QAM	50	24	14.98	15.11	15.00	16.4	0
20	64QAM	50	50	15.00	15.05	14.90		
20	64QAM	100	0	14.92	15.10	15.07		
Channel				18675	18900	19125	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	15.09	15.22	15.19	16.4	0
15	QPSK	1	37	15.07	15.10	14.91		
15	QPSK	1	74	15.00	15.04	15.15		
15	QPSK	36	0	15.09	15.06	15.04	16.4	0
15	QPSK	36	20	14.91	15.02	14.96		
15	QPSK	36	39	14.88	15.07	14.88		
15	QPSK	75	0	15.00	15.14	15.08	16.4	0
15	16QAM	1	0	15.01	15.08	15.15		
15	16QAM	1	37	14.96	15.04	15.01		
15	16QAM	1	74	15.14	15.13	14.96	16.4	0
15	16QAM	36	0	14.91	15.07	14.95		
15	16QAM	36	20	14.90	14.95	14.85		
15	16QAM	36	39	14.95	14.99	14.93	16.4	0
15	16QAM	75	0	14.88	14.86	14.85		
15	64QAM	1	0	15.12	15.13	15.17		
15	64QAM	1	37	15.00	14.94	14.77	16.4	0
15	64QAM	1	74	14.94	15.07	14.99		
15	64QAM	36	0	14.89	14.99	14.90		
15	64QAM	36	20	14.86	15.06	14.88	16.4	0
15	64QAM	36	39	14.92	14.93	14.78		
15	64QAM	75	0	14.77	15.06	14.97		
Channel				18650	18900	19150	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	15.12	15.25	15.11	16.4	0
10	QPSK	1	25	15.02	15.14	14.94		
10	QPSK	1	49	15.11	15.02	15.06		



10	QPSK	25	0	15.04	15.16	14.95	16.4	0
10	QPSK	25	12	14.93	15.11	14.98		
10	QPSK	25	25	14.85	14.95	14.92		
10	QPSK	50	0	14.92	15.10	15.13	16.4	0
10	16QAM	1	0	14.93	15.15	15.07		
10	16QAM	1	25	14.96	15.02	14.92		
10	16QAM	1	49	15.06	15.20	15.05	16.4	0
10	16QAM	25	0	14.85	15.04	14.95		
10	16QAM	25	12	14.91	14.88	14.83		
10	16QAM	25	25	14.88	14.98	14.85	16.4	0
10	16QAM	50	0	14.87	14.90	14.89		
10	64QAM	1	0	15.06	15.19	15.07		
10	64QAM	1	25	14.89	14.95	14.83	16.4	0
10	64QAM	1	49	14.96	15.07	15.03		
10	64QAM	25	0	14.95	15.02	14.88		
10	64QAM	25	12	14.89	15.01	14.84	16.4	0
10	64QAM	25	25	14.87	14.98	14.83		
10	64QAM	50	0	14.90	15.02	15.00		
Channel				18625	18900	19175	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	15.06	15.19	15.16	16.4	0
5	QPSK	1	12	14.96	15.12	14.99		
5	QPSK	1	24	15.04	15.06	15.04		
5	QPSK	12	0	14.94	15.06	14.99	16.4	0
5	QPSK	12	7	14.95	15.09	14.97		
5	QPSK	12	13	14.90	15.06	14.89		
5	QPSK	25	0	14.95	15.14	15.10	16.4	0
5	16QAM	1	0	14.98	15.21	15.01		
5	16QAM	1	12	14.87	14.99	14.95		
5	16QAM	1	24	15.11	15.21	14.94	16.4	0
5	16QAM	12	0	14.96	14.98	15.04		
5	16QAM	12	7	14.89	14.98	14.83		
5	16QAM	12	13	14.91	14.97	14.88	16.4	0
5	16QAM	25	0	14.89	15.00	14.87		
5	64QAM	1	0	15.07	15.09	15.10		
5	64QAM	1	12	14.93	15.04	14.79	16.4	0
5	64QAM	1	24	14.94	15.16	14.96		
5	64QAM	12	0	15.00	15.05	14.88		
5	64QAM	12	7	14.90	14.96	14.88	16.4	0
5	64QAM	12	13	14.88	14.93	14.75		
5	64QAM	25	0	14.86	14.95	15.01		
Channel				18615	18900	19185	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	15.10	15.12	15.12	16.4	0
3	QPSK	1	8	14.99	15.08	14.94		
3	QPSK	1	14	15.08	15.05	15.05		
3	QPSK	8	0	14.96	15.06	15.01	16.4	0
3	QPSK	8	4	14.86	15.13	14.93		
3	QPSK	8	7	14.95	15.02	14.86		
3	QPSK	15	0	14.90	15.15	15.08	16.4	0
3	16QAM	1	0	14.95	15.15	15.09		
3	16QAM	1	8	14.94	14.97	14.96		
3	16QAM	1	14	15.05	15.14	15.01	16.4	0
3	16QAM	8	0	14.91	15.04	15.04		
3	16QAM	8	4	14.86	14.99	14.87		
3	16QAM	8	7	14.85	14.94	14.86	16.4	0



3	16QAM	15	0	14.96	14.94	14.86		
3	64QAM	1	0	15.07	15.09	15.15	16.4	0
3	64QAM	1	8	14.99	15.01	14.85		
3	64QAM	1	14	14.98	15.06	14.95		
3	64QAM	8	0	14.93	14.95	14.98	16.4	0
3	64QAM	8	4	14.83	14.95	14.92		
3	64QAM	8	7	14.85	14.92	14.79		
3	64QAM	15	0	14.82	14.93	14.94		
Channel				18607	18900	19193	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1850.7	1880	1909.3		
1.4	QPSK	1	0	15.10	15.18	15.14	16.4	0
1.4	QPSK	1	3	15.06	14.99	15.00		
1.4	QPSK	1	5	15.10	15.02	15.07		
1.4	QPSK	3	0	15.03	15.12	15.05		
1.4	QPSK	3	1	14.85	15.06	14.93		
1.4	QPSK	3	3	14.81	15.09	14.98		
1.4	QPSK	6	0	14.98	15.09	15.08	16.4	0
1.4	16QAM	1	0	14.96	15.11	15.13	16.4	0
1.4	16QAM	1	3	14.86	15.09	14.98		
1.4	16QAM	1	5	15.11	15.17	15.02		
1.4	16QAM	3	0	14.81	15.05	15.04		
1.4	16QAM	3	1	14.81	14.97	14.75		
1.4	16QAM	3	3	14.86	15.05	14.86		
1.4	16QAM	6	0	14.85	14.90	14.89	16.4	0
1.4	64QAM	1	0	15.11	15.17	15.06	16.4	0
1.4	64QAM	1	3	15.00	15.01	14.78		
1.4	64QAM	1	5	15.00	15.16	15.00		
1.4	64QAM	3	0	14.99	14.93	14.98		
1.4	64QAM	3	1	14.84	15.03	14.82		
1.4	64QAM	3	3	14.91	15.03	14.80		
1.4	64QAM	6	0	14.88	14.92	14.97	16.4	0



Band 5 ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20450	20525	20600		
Frequency (MHz)				829	836.5	844		
10	QPSK	1	0	24.21	24.27	24.12	25	0
10	QPSK	1	25	24.01	24.07	24.03		
10	QPSK	1	49	23.92	24.05	23.93		
10	QPSK	25	0	23.22	23.43	23.34	24	1
10	QPSK	25	12	23.20	23.32	23.19		
10	QPSK	25	25	23.27	23.41	23.15		
10	QPSK	50	0	23.36	23.46	23.29	24	1
10	16QAM	1	0	23.36	23.32	23.24		
10	16QAM	1	25	23.37	23.43	23.37		
10	16QAM	1	49	23.38	23.36	23.38	23	2
10	16QAM	25	0	22.18	22.30	22.23		
10	16QAM	25	12	22.28	22.28	22.34		
10	16QAM	25	25	22.24	22.32	22.22	23	2
10	16QAM	50	0	22.22	22.37	22.41		
10	64QAM	1	0	22.13	22.29	22.01		
10	64QAM	1	25	22.05	22.05	22.00	23	2
10	64QAM	1	49	21.97	22.16	22.08		
10	64QAM	25	0	21.13	21.25	21.14		
10	64QAM	25	12	21.31	21.37	21.20	22	3
10	64QAM	25	25	21.40	21.35	21.28		
10	64QAM	50	0	21.27	21.40	21.26		
Channel				20425	20525	20625	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	24.15	24.10	23.97	25	0
5	QPSK	1	12	23.89	23.93	23.96		
5	QPSK	1	24	23.89	23.93	23.86		
5	QPSK	12	0	23.09	23.31	23.21	24	1
5	QPSK	12	7	23.15	23.15	23.05		
5	QPSK	12	13	23.09	23.26	23.07		
5	QPSK	25	0	23.20	23.32	23.26	24	1
5	16QAM	1	0	23.30	23.16	23.19		
5	16QAM	1	12	23.29	23.33	23.32		
5	16QAM	1	24	23.21	23.27	23.24	23	2
5	16QAM	12	0	22.12	22.18	22.14		
5	16QAM	12	7	22.17	22.12	22.22		
5	16QAM	12	13	22.13	22.25	22.06	23	2
5	16QAM	25	0	22.12	22.20	22.26		
5	64QAM	1	0	22.06	22.26	21.85		
5	64QAM	1	12	22.01	22.01	21.85	23	2
5	64QAM	1	24	21.81	22.04	22.06		
5	64QAM	12	0	21.05	21.08	21.06		
5	64QAM	12	7	21.18	21.34	21.13	22	3
5	64QAM	12	13	21.35	21.25	21.24		
5	64QAM	25	0	21.19	21.27	21.11		
Channel				20415	20525	20635	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				825.5	836.5	847.5		
3	QPSK	1	0	24.08	24.15	23.96	25	0
3	QPSK	1	8	23.91	24.04	23.90		
3	QPSK	1	14	23.89	23.98	23.90		
3	QPSK	8	0	23.17	23.28	23.18	24	1



3	QPSK	8	4	23.10	23.19	23.13		
3	QPSK	8	7	23.12	23.35	23.11		
3	QPSK	15	0	23.28	23.41	23.17		
3	16QAM	1	0	23.30	23.26	23.18	24	1
3	16QAM	1	8	23.33	23.27	23.29		
3	16QAM	1	14	23.25	23.18	23.27		
3	16QAM	8	0	22.13	22.14	22.14	23	2
3	16QAM	8	4	22.25	22.23	22.26		
3	16QAM	8	7	22.22	22.27	22.07		
3	16QAM	15	0	22.18	22.34	22.29		
3	64QAM	1	0	21.97	22.24	21.87	23	2
3	64QAM	1	8	21.98	21.91	21.85		
3	64QAM	1	14	21.81	22.02	21.91		
3	64QAM	8	0	21.04	21.08	21.11	22	3
3	64QAM	8	4	21.20	21.19	21.06		
3	64QAM	8	7	21.24	21.24	21.22		
3	64QAM	15	0	21.21	21.23	21.10		
Channel				20407	20525	20643	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	24.10	24.21	24.03	25	0
1.4	QPSK	1	3	23.98	23.97	23.92		
1.4	QPSK	1	5	23.89	23.98	23.83		
1.4	QPSK	3	0	24.05	24.17	24.09		
1.4	QPSK	3	1	23.90	23.94	23.87		
1.4	QPSK	3	3	23.81	23.89	23.84		
1.4	QPSK	6	0	23.16	23.30	23.23	24	1
1.4	16QAM	1	0	23.13	23.24	23.16	24	1
1.4	16QAM	1	3	23.20	23.27	23.10		
1.4	16QAM	1	5	23.21	23.43	23.16		
1.4	16QAM	3	0	23.19	23.20	23.21		
1.4	16QAM	3	1	23.22	23.41	23.34		
1.4	16QAM	3	3	23.24	23.29	23.34		
1.4	16QAM	6	0	22.01	22.23	22.09	23	2
1.4	64QAM	1	0	22.13	22.12	22.19	23	2
1.4	64QAM	1	3	22.08	22.21	22.18		
1.4	64QAM	1	5	22.06	22.22	22.26		
1.4	64QAM	3	0	21.99	22.21	21.90		
1.4	64QAM	3	1	22.11	22.19	22.19		
1.4	64QAM	3	3	22.13	22.24	22.28		
1.4	64QAM	6	0	21.24	21.38	21.20	22	3



Band 7 ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				20850	21100	21350		
Frequency (MHz)				2510	2535	2560		
20	QPSK	1	0	15.92	16.10	16.03	17	0
20	QPSK	1	49	15.98	16.02	16.06		
20	QPSK	1	99	15.96	16.06	15.98		
20	QPSK	50	0	15.95	16.08	15.94	17	0
20	QPSK	50	24	15.98	16.05	15.93		
20	QPSK	50	50	15.88	16.02	15.84		
20	QPSK	100	0	16.04	16.06	15.96		
20	16QAM	1	0	16.00	16.01	16.03	17	0
20	16QAM	1	49	15.88	16.05	16.00		
20	16QAM	1	99	16.00	15.94	15.98		
20	16QAM	50	0	16.05	16.02	15.99	17	0
20	16QAM	50	24	15.88	16.04	15.92		
20	16QAM	50	50	15.95	16.02	15.89		
20	16QAM	100	0	15.95	16.04	15.92		
20	64QAM	1	0	15.82	15.98	15.81	17	0
20	64QAM	1	49	16.07	16.00	16.05		
20	64QAM	1	99	15.93	16.08	15.91		
20	64QAM	50	0	15.82	15.90	15.88	17	0
20	64QAM	50	24	15.71	15.77	15.71		
20	64QAM	50	50	15.67	15.76	15.61		
20	64QAM	100	0	15.79	15.82	15.72		
Channel				20825	21100	21375	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2507.5	2535	2562.5		
15	QPSK	1	0	15.78	16.04	16.01	17	0
15	QPSK	1	37	15.85	16.02	16.01		
15	QPSK	1	74	15.82	16.03	15.81		
15	QPSK	36	0	15.87	15.94	15.79	17	0
15	QPSK	36	20	15.94	16.03	15.79		
15	QPSK	36	39	15.83	15.88	15.71		
15	QPSK	75	0	15.93	16.01	15.93		
15	16QAM	1	0	15.87	16.07	15.87	17	0
15	16QAM	1	37	15.73	16.01	15.95		
15	16QAM	1	74	15.89	16.03	16.03		
15	16QAM	36	0	15.87	16.06	15.95	17	0
15	16QAM	36	20	15.82	15.98	15.79		
15	16QAM	36	39	15.79	15.86	15.83		
15	16QAM	75	0	15.80	15.98	15.75		
15	64QAM	1	0	15.75	15.81	15.66	17	0
15	64QAM	1	37	15.91	16.05	15.91		
15	64QAM	1	74	15.89	15.94	15.82		
15	64QAM	36	0	15.69	15.78	15.75	17	0
15	64QAM	36	20	15.65	15.68	15.58		
15	64QAM	36	39	15.58	15.61	15.49		
15	64QAM	75	0	15.65	15.68	15.55		
Channel				20800	21100	21400	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2505	2535	2565		
10	QPSK	1	0	15.81	16.07	15.91	17	0
10	QPSK	1	25	15.86	16.02	15.98		
10	QPSK	1	49	15.89	15.92	15.94		
10	QPSK	25	0	15.79	16.01	15.77		



10	QPSK	25	12	15.84	15.89	15.90		
10	QPSK	25	25	15.72	15.96	15.78		
10	QPSK	50	0	15.88	15.91	15.86		
10	16QAM	1	0	15.95	16.03	15.93	17	0
10	16QAM	1	25	15.85	15.90	15.98		
10	16QAM	1	49	15.88	16.00	16.04		
10	16QAM	25	0	15.89	15.95	15.89	17	0
10	16QAM	25	12	15.82	15.99	15.90		
10	16QAM	25	25	15.85	15.89	15.79		
10	16QAM	50	0	15.90	15.91	15.85		
10	64QAM	1	0	15.70	15.86	15.73	17	0
10	64QAM	1	25	16.01	16.02	15.87		
10	64QAM	1	49	15.81	16.01	15.83		
10	64QAM	25	0	15.80	15.83	15.82	17	0
10	64QAM	25	12	15.54	15.61	15.55		
10	64QAM	25	25	15.57	15.69	15.52		
10	64QAM	50	0	15.73	15.79	15.55		
Channel				20775	21100	21425		
Frequency (MHz)				2502.5	2535	2567.5		
5	QPSK	1	0	15.86	15.93	16.00	17	0
5	QPSK	1	12	15.93	16.00	15.89		
5	QPSK	1	24	15.92	15.89	15.96		
5	QPSK	12	0	15.82	16.06	15.80	17	0
5	QPSK	12	7	15.88	15.90	15.78		
5	QPSK	12	13	15.82	15.97	15.74		
5	QPSK	25	0	15.89	15.93	15.82		
5	16QAM	1	0	15.92	15.91	16.00		
5	16QAM	1	12	15.79	15.93	15.98	17	0
5	16QAM	1	24	15.96	16.04	16.08		
5	16QAM	12	0	15.94	16.09	15.85		
5	16QAM	12	7	15.80	15.86	15.75	17	0
5	16QAM	12	13	15.82	15.90	15.85		
5	16QAM	25	0	15.80	15.99	15.76		
5	64QAM	1	0	15.77	15.91	15.79		
5	64QAM	1	12	16.04	15.95	15.90		
5	64QAM	1	24	15.80	15.93	15.81	17	0
5	64QAM	12	0	15.65	15.86	15.77		
5	64QAM	12	7	15.56	15.62	15.65		
5	64QAM	12	13	15.63	15.64	15.57		
5	64QAM	25	0	15.71	15.76	15.57		



Band 66 ENDC								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				132072	132322	132572		
Frequency (MHz)				1720	1745	1770		
20	QPSK	1	0	16.13	16.24	16.22	17.5	0
20	QPSK	1	49	16.07	16.09	16.12		
20	QPSK	1	99	16.09	16.18	16.08		
20	QPSK	50	0	16.11	16.13	16.12	17.5	0
20	QPSK	50	24	15.97	16.04	16.12		
20	QPSK	50	50	16.00	16.09	16.08		
20	QPSK	100	0	15.96	16.17	15.91	17.5	0
20	16QAM	1	0	16.06	16.18	16.13		
20	16QAM	1	49	15.97	16.10	15.95		
20	16QAM	1	99	16.19	16.21	16.14	17.5	0
20	16QAM	50	0	16.08	16.19	16.12		
20	16QAM	50	24	16.07	16.11	16.13		
20	16QAM	50	50	15.91	16.15	15.98	17.5	0
20	16QAM	100	0	16.04	16.22	16.03		
20	64QAM	1	0	15.93	16.08	16.00		
20	64QAM	1	49	16.19	16.22	16.10	17.5	0
20	64QAM	1	99	15.95	16.20	15.97		
20	64QAM	50	0	16.11	16.21	16.12		
20	64QAM	50	24	16.14	15.97	16.13	17.5	0
20	64QAM	50	50	16.03	16.10	16.17		
20	64QAM	100	0	16.09	16.06	16.21		
Channel				132047	132322	132597	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1717.5	1745	1772.5		
15	QPSK	1	0	16.08	16.18	16.15	17.5	0
15	QPSK	1	37	15.99	15.98	16.04		
15	QPSK	1	74	16.02	16.11	15.92		
15	QPSK	36	0	15.99	16.10	15.95	17.5	0
15	QPSK	36	20	15.91	15.96	15.96		
15	QPSK	36	39	15.85	16.07	16.17		
15	QPSK	75	0	15.90	16.05	15.75	17.5	0
15	16QAM	1	0	16.03	16.10	16.02		
15	16QAM	1	37	15.81	15.92	15.80		
15	16QAM	1	74	16.13	16.11	16.11	17.5	0
15	16QAM	36	0	15.97	16.03	16.06		
15	16QAM	36	20	15.96	15.99	15.98		
15	16QAM	36	39	15.76	16.05	15.82	17.5	0
15	16QAM	75	0	15.89	16.08	15.91		
15	64QAM	1	0	15.80	15.91	15.97		
15	64QAM	1	37	16.02	16.15	16.04	17.5	0
15	64QAM	1	74	15.85	16.10	15.83		
15	64QAM	36	0	16.05	16.06	15.94		
15	64QAM	36	20	16.01	15.80	16.10	17.5	0
15	64QAM	36	39	15.86	16.00	16.02		
15	64QAM	75	0	15.97	15.99	16.14		
Channel				132022	132322	132622	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1715	1745	1775		
10	QPSK	1	0	16.05	16.20	16.08	17.5	0
10	QPSK	1	25	16.05	16.04	16.04		
10	QPSK	1	49	15.91	16.06	15.96		
10	QPSK	25	0	15.98	16.13	15.96	17.5	0



10	QPSK	25	12	15.93	15.90	16.01		
10	QPSK	25	25	15.87	16.01	16.06		
10	QPSK	50	0	15.83	16.06	15.80		
10	16QAM	1	0	16.03	16.01	16.02	17.5	0
10	16QAM	1	25	15.93	15.93	15.90		
10	16QAM	1	49	16.11	16.11	16.03		
10	16QAM	25	0	16.02	16.13	16.01	17.5	0
10	16QAM	25	12	15.94	16.06	15.99		
10	16QAM	25	25	15.79	16.08	15.85		
10	16QAM	50	0	15.91	16.05	15.88		
10	64QAM	1	0	15.80	15.97	15.97	17.5	0
10	64QAM	1	25	16.12	16.19	15.98		
10	64QAM	1	49	15.91	16.07	15.82		
10	64QAM	25	0	16.01	16.13	16.00	17.5	0
10	64QAM	25	12	16.08	15.87	15.96		
10	64QAM	25	25	15.88	16.00	16.08		
10	64QAM	50	0	15.96	16.02	16.13		
Channel				131997	132322	132647	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1712.5	1745	1777.5		
5	QPSK	1	0	16.02	16.12	16.07	17.5	0
5	QPSK	1	12	15.91	16.06	15.97		
5	QPSK	1	24	16.04	16.04	15.90		
5	QPSK	12	0	15.93	16.18	15.96	17.5	0
5	QPSK	12	7	15.90	15.96	15.96		
5	QPSK	12	13	15.86	16.04	16.09		
5	QPSK	25	0	15.88	16.14	15.82		
5	16QAM	1	0	15.93	16.15	15.99	17.5	0
5	16QAM	1	12	15.93	15.93	15.87		
5	16QAM	1	24	16.14	16.10	15.99		
5	16QAM	12	0	15.94	16.11	16.01	17.5	0
5	16QAM	12	7	15.96	16.01	16.08		
5	16QAM	12	13	15.77	16.08	15.93		
5	16QAM	25	0	15.90	16.18	15.91		
5	64QAM	1	0	15.91	15.97	15.88	17.5	0
5	64QAM	1	12	16.06	16.16	16.04		
5	64QAM	1	24	15.82	16.10	15.80		
5	64QAM	12	0	15.94	16.19	16.04	17.5	0
5	64QAM	12	7	16.10	15.88	16.06		
5	64QAM	12	13	15.96	15.93	16.10		
5	64QAM	25	0	15.92	16.03	16.13		
Channel				131987	132322	132657	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1711.5	1745	1778.5		
3	QPSK	1	0	15.95	16.12	16.14	17.5	0
3	QPSK	1	8	15.91	16.06	16.03		
3	QPSK	1	14	16.02	16.06	16.01		
3	QPSK	8	0	15.92	16.16	16.06	17.5	0
3	QPSK	8	4	15.88	15.95	16.01		
3	QPSK	8	7	15.83	15.97	16.11		
3	QPSK	15	0	15.78	16.04	15.77		
3	16QAM	1	0	15.95	16.09	15.96	17.5	0
3	16QAM	1	8	15.81	16.00	15.86		
3	16QAM	1	14	16.14	16.05	15.98		
3	16QAM	8	0	15.98	16.13	15.95	17.5	0
3	16QAM	8	4	15.94	16.03	15.99		
3	16QAM	8	7	15.75	16.12	15.81		
3	16QAM	15	0	15.96	16.13	15.90		



3	64QAM	1	0	15.80	16.01	15.95	17.5	0
3	64QAM	1	8	16.12	16.05	16.02		
3	64QAM	1	14	15.89	16.06	15.93		
3	64QAM	8	0	16.01	16.06	16.02	17.5	0
3	64QAM	8	4	15.98	15.82	16.05		
3	64QAM	8	7	15.95	16.06	16.07		
3	64QAM	15	0	15.91	15.90	16.04		
Channel				131979	132322	132665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	16.09	16.09	16.10	17.5	0
1.4	QPSK	1	3	16.04	15.91	15.97		
1.4	QPSK	1	5	16.05	16.05	16.04		
1.4	QPSK	3	0	15.89	16.10	15.97		
1.4	QPSK	3	1	15.88	15.90	16.09		
1.4	QPSK	3	3	15.94	16.00	16.12		
1.4	QPSK	6	0	15.85	16.12	15.87	17.5	0
1.4	16QAM	1	0	15.96	16.01	15.98	17.5	0
1.4	16QAM	1	3	15.89	16.07	15.92		
1.4	16QAM	1	5	16.04	16.04	16.03		
1.4	16QAM	3	0	15.95	16.09	16.02		
1.4	16QAM	3	1	16.04	16.05	15.98		
1.4	16QAM	3	3	15.80	16.07	15.94		
1.4	16QAM	6	0	15.94	16.06	15.95	17.5	0
1.4	64QAM	1	0	15.78	15.98	15.89	17.5	0
1.4	64QAM	1	3	16.14	16.12	15.96		
1.4	64QAM	1	5	15.80	16.05	15.82		
1.4	64QAM	3	0	15.96	16.15	16.05		
1.4	64QAM	3	1	16.09	15.94	16.09		
1.4	64QAM	3	3	15.92	16.07	16.10		
1.4	64QAM	6	0	16.00	15.93	16.08	17.5	0

<TDD LTE SAR Measurement>

TDD LTE configuration setup for 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.

- a. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- b. "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
- c. 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.

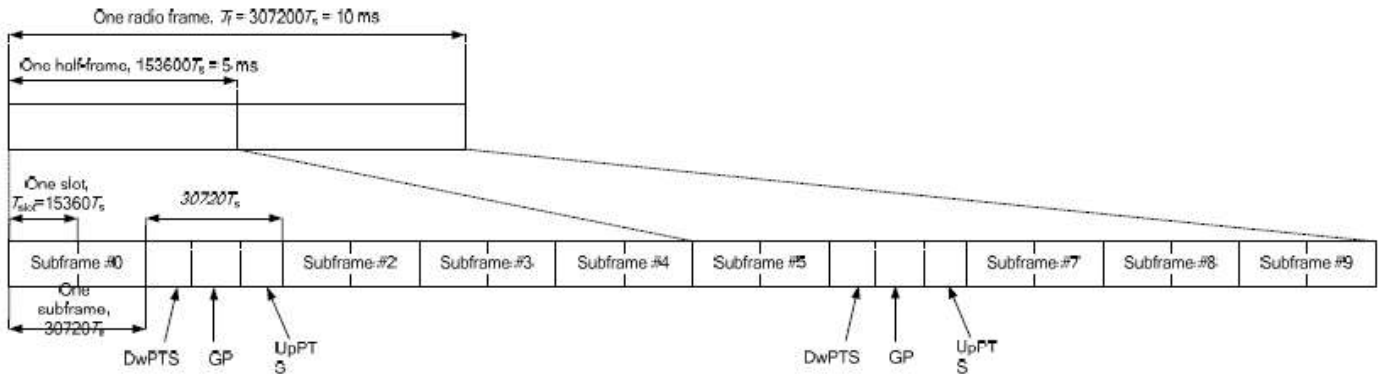


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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:

For Power class 3

- 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 scaled TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.



Default Power Mode

Ant0

Band 38										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150		0		
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.34	23.42	23.37				
20	QPSK	1	49	23.24	23.30	23.27	24	0		
20	QPSK	1	99	23.21	23.26	23.18				
20	QPSK	50	0	22.32	22.40	22.27				
20	QPSK	50	24	22.27	22.39	22.18	23	1		
20	QPSK	50	50	22.24	22.26	22.24				
20	QPSK	100	0	22.03	22.17	22.14				
20	16QAM	1	0	22.27	22.39	22.36	23	1		
20	16QAM	1	49	22.20	22.32	22.20				
20	16QAM	1	99	22.18	22.35	22.16				
20	16QAM	50	0	21.29	21.31	21.33	22	2		
20	16QAM	50	24	21.24	21.25	21.34				
20	16QAM	50	50	21.19	21.29	21.26				
20	16QAM	100	0	21.11	21.24	21.15	22	2		
20	64QAM	1	0	20.96	20.94	20.92				
20	64QAM	1	49	20.88	21.01	20.92				
20	64QAM	1	99	20.75	20.91	20.83	21	3		
20	64QAM	50	0	20.25	20.44	20.37				
20	64QAM	50	24	20.29	20.36	20.23				
20	64QAM	50	50	20.22	20.15	20.16	21	3		
20	64QAM	100	0	20.25	20.26	20.19				
Channel				37825	38000	38175			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5	24	0		
15	QPSK	1	0	23.30	23.34	23.24				
15	QPSK	1	37	23.19	23.15	23.11				
15	QPSK	1	74	23.11	23.19	23.16	23	1		
15	QPSK	36	0	22.16	22.34	22.12				
15	QPSK	36	20	22.19	22.25	22.08				
15	QPSK	36	39	22.13	22.10	22.17	23	1		
15	QPSK	75	0	21.92	22.10	22.03				
15	16QAM	1	0	22.10	22.34	22.33				
15	16QAM	1	37	22.03	22.29	22.03	23	1		
15	16QAM	1	74	22.08	22.20	22.07				
15	16QAM	36	0	21.15	21.18	21.23				
15	16QAM	36	20	21.14	21.16	21.17	22	2		
15	16QAM	36	39	21.06	21.17	21.16				
15	16QAM	75	0	21.04	21.12	21.03				
15	64QAM	1	0	20.89	20.87	20.85	22	2		
15	64QAM	1	37	20.82	20.90	20.81				
15	64QAM	1	74	20.58	20.81	20.76				
15	64QAM	36	0	20.16	20.39	20.26	21	3		
15	64QAM	36	20	20.27	20.22	20.18				
15	64QAM	36	39	20.17	20.05	20.00				
15	64QAM	75	0	20.20	20.12	20.14	21	3		
Channel				37800	38000	38200			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.18	23.30	23.29	24	0		
10	QPSK	1	25	23.08	23.23	23.24				
10	QPSK	1	49	23.17	23.16	23.09				



10	QPSK	25	0	22.22	22.38	22.11	23	1
10	QPSK	25	12	22.13	22.30	22.07		
10	QPSK	25	25	22.06	22.10	22.11		
10	QPSK	50	0	21.95	22.03	22.04	23	1
10	16QAM	1	0	22.16	22.22	22.28		
10	16QAM	1	25	22.14	22.25	22.02		
10	16QAM	1	49	22.03	22.30	22.06	22	2
10	16QAM	25	0	21.26	21.20	21.16		
10	16QAM	25	12	21.18	21.18	21.19		
10	16QAM	25	25	21.15	21.13	21.09	22	2
10	16QAM	50	0	20.98	21.09	21.05		
10	64QAM	1	0	20.92	20.90	20.86		
10	64QAM	1	25	20.78	20.92	20.75	21	3
10	64QAM	1	49	20.68	20.88	20.73		
10	64QAM	25	0	20.22	20.31	20.24		
10	64QAM	25	12	20.26	20.26	20.11	21	3
10	64QAM	25	25	20.14	20.06	20.01		
10	64QAM	50	0	20.10	20.22	20.11		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	23.18	23.28	23.22	24	0
5	QPSK	1	12	23.09	23.21	23.23		
5	QPSK	1	24	23.07	23.11	23.14		
5	QPSK	12	0	22.19	22.30	22.15	23	1
5	QPSK	12	7	22.23	22.35	22.07		
5	QPSK	12	13	22.08	22.11	22.21		
5	QPSK	25	0	21.98	22.10	21.98	23	1
5	16QAM	1	0	22.20	22.23	22.27		
5	16QAM	1	12	22.13	22.30	22.08		
5	16QAM	1	24	22.00	22.31	22.01	22	2
5	16QAM	12	0	21.25	21.27	21.20		
5	16QAM	12	7	21.20	21.08	21.18		
5	16QAM	12	13	21.16	21.15	21.14	22	2
5	16QAM	25	0	20.98	21.11	20.97		
5	64QAM	1	0	20.87	20.82	20.89		
5	64QAM	1	12	20.85	20.98	20.90	22	2
5	64QAM	1	24	20.59	20.86	20.80		
5	64QAM	12	0	20.18	20.40	20.21		
5	64QAM	12	7	20.14	20.33	20.08	21	3
5	64QAM	12	13	20.18	19.99	19.98		
5	64QAM	25	0	20.08	20.17	20.02		



Ant2

Band 41										
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)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.54	23.45	23.61	23.44	23.60	25	0
20	QPSK	1	49	23.39	23.45	23.47	23.44	23.50		
20	QPSK	1	99	23.30	23.31	23.48	23.37	23.44		
20	QPSK	50	0	22.60	22.57	22.65	22.62	22.51	24	1
20	QPSK	50	24	22.56	22.39	22.62	22.35	22.37		
20	QPSK	50	50	22.41	22.40	22.55	22.45	22.36		
20	QPSK	100	0	22.47	22.47	22.68	22.54	22.51	24	1
20	16QAM	1	0	22.63	22.52	22.66	22.38	22.63		
20	16QAM	1	49	22.40	22.47	22.57	22.45	22.41		
20	16QAM	1	99	22.41	22.35	22.42	22.37	22.33	23	2
20	16QAM	50	0	21.47	21.52	21.71	21.66	21.64		
20	16QAM	50	24	21.50	21.43	21.63	21.40	21.57		
20	16QAM	50	50	21.40	21.44	21.56	21.42	21.41	23	2
20	16QAM	100	0	21.46	21.44	21.68	21.54	21.51		
20	64QAM	1	0	21.53	21.63	21.60	21.33	21.62		
20	64QAM	1	49	21.42	21.44	21.55	21.42	21.43	23	2
20	64QAM	1	99	21.36	21.40	21.49	21.40	21.39		
20	64QAM	50	0	20.58	20.59	20.68	20.62	20.59		
20	64QAM	50	24	20.44	20.52	20.54	20.36	20.52	22	3
20	64QAM	50	50	20.40	20.50	20.51	20.48	20.47		
20	64QAM	100	0	20.48	20.55	20.64	20.40	20.52		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.41	23.31	23.49	23.34	23.55	25.00	0
15	QPSK	1	37	23.29	23.42	23.30	23.32	23.37		
15	QPSK	1	74	23.19	23.20	23.43	23.24	23.41		
15	QPSK	36	0	22.48	22.49	22.57	22.46	22.40	24	1
15	QPSK	36	20	22.47	22.30	22.46	22.27	22.32		
15	QPSK	36	39	22.25	22.31	22.47	22.41	22.24		
15	QPSK	75	0	22.40	22.34	22.64	22.42	22.42	24	1
15	16QAM	1	0	22.56	22.36	22.60	22.27	22.56		
15	16QAM	1	37	22.30	22.39	22.45	22.34	22.26		
15	16QAM	1	74	22.31	22.21	22.34	22.23	22.21	23	2
15	16QAM	36	0	21.45	21.46	21.55	21.63	21.48		
15	16QAM	36	20	21.33	21.31	21.46	21.29	21.54		
15	16QAM	36	39	21.33	21.27	21.43	21.31	21.38	23	2
15	16QAM	75	0	21.31	21.28	21.58	21.49	21.44		
15	64QAM	1	0	21.36	21.52	21.42	21.31	21.46		
15	64QAM	1	37	21.35	21.42	21.48	21.38	21.35	23	2
15	64QAM	1	74	21.27	21.25	21.44	21.37	21.30		
15	64QAM	36	0	20.49	20.50	20.65	20.45	20.45		
15	64QAM	36	20	20.39	20.39	20.46	20.26	20.39	22	3
15	64QAM	36	39	20.33	20.35	20.34	20.30	20.42		
15	64QAM	75	0	20.41	20.41	20.48	20.35	20.46		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.44	23.29	23.46	23.39	23.44	25.00	0
10	QPSK	1	25	23.31	23.35	23.36	23.40	23.41		



10	QPSK	1	49	23.12	23.20	23.30	23.25	23.34		
10	QPSK	25	0	22.43	22.48	22.54	22.59	22.35	24	1
10	QPSK	25	12	22.43	22.30	22.49	22.30	22.26		
10	QPSK	25	25	22.32	22.34	22.42	22.34	22.21		
10	QPSK	50	0	22.37	22.40	22.53	22.51	22.40		
10	16QAM	1	0	22.50	22.48	22.51	22.31	22.50	24	1
10	16QAM	1	25	22.27	22.32	22.48	22.29	22.37		
10	16QAM	1	49	22.35	22.20	22.35	22.29	22.21		
10	16QAM	25	0	21.31	21.45	21.63	21.49	21.57	23	2
10	16QAM	25	12	21.32	21.34	21.56	21.26	21.46		
10	16QAM	25	25	21.35	21.31	21.45	21.29	21.31		
10	16QAM	50	0	21.37	21.32	21.53	21.46	21.48		
10	64QAM	1	0	21.42	21.48	21.56	21.36	21.56	23	2
10	64QAM	1	25	21.29	21.38	21.47	21.29	21.33		
10	64QAM	1	49	21.25	21.23	21.46	21.28	21.26		
10	64QAM	25	0	20.50	20.45	20.56	20.55	20.56	22	3
10	64QAM	25	12	20.40	20.47	20.39	20.29	20.37		
10	64QAM	25	25	20.35	20.43	20.33	20.41	20.44		
10	64QAM	50	0	20.32	20.50	20.57	20.32	20.41		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.38	23.36	23.46	23.29	23.42	25.00	0
5	QPSK	1	12	23.23	23.37	23.35	23.28	23.40		
5	QPSK	1	24	23.17	23.16	23.39	23.23	23.28		
5	QPSK	12	0	22.45	22.42	22.56	22.57	22.37	24	1
5	QPSK	12	7	22.53	22.27	22.45	22.19	22.25		
5	QPSK	12	13	22.29	22.38	22.51	22.39	22.21		
5	QPSK	25	0	22.45	22.29	22.57	22.41	22.48		
5	16QAM	1	0	22.53	22.45	22.60	22.30	22.54	24	1
5	16QAM	1	12	22.31	22.42	22.52	22.36	22.23		
5	16QAM	1	24	22.39	22.21	22.32	22.33	22.23		
5	16QAM	12	0	21.36	21.44	21.59	21.57	21.53	23	2
5	16QAM	12	7	21.33	21.26	21.45	21.28	21.48		
5	16QAM	12	13	21.35	21.31	21.48	21.32	21.24		
5	16QAM	25	0	21.44	21.26	21.58	21.39	21.34		
5	64QAM	1	0	21.35	21.57	21.46	21.24	21.51	23	2
5	64QAM	1	12	21.25	21.42	21.52	21.25	21.32		
5	64QAM	1	24	21.20	21.31	21.41	21.28	21.25		
5	64QAM	12	0	20.45	20.55	20.57	20.50	20.48	22	3
5	64QAM	12	7	20.38	20.35	20.45	20.33	20.37		
5	64QAM	12	13	20.31	20.45	20.40	20.44	20.39		
5	64QAM	25	0	20.43	20.49	20.58	20.33	20.45		



Ant3

Band 48									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	23.41	23.62	23.57	23.59	24.5	0
20	QPSK	1	49	23.46	23.48	23.39	23.43		
20	QPSK	1	99	23.49	23.54	23.46	23.43		
20	QPSK	50	0	22.42	22.66	22.55	22.49	23.5	1
20	QPSK	50	24	22.58	22.49	22.57	22.57		
20	QPSK	50	50	22.44	22.59	22.49	22.58		
20	QPSK	100	0	22.49	22.60	22.44	22.35	23.5	1
20	16QAM	1	0	22.43	22.52	22.43	22.50		
20	16QAM	1	49	22.42	22.62	22.49	22.39		
20	16QAM	1	99	22.42	22.40	22.41	22.58	22.5	2
20	16QAM	50	0	21.40	21.69	21.65	21.48		
20	16QAM	50	24	21.63	21.67	21.56	21.45		
20	16QAM	50	50	21.41	21.64	21.38	21.61	22.5	2
20	16QAM	100	0	21.31	21.63	21.44	21.45		
20	64QAM	1	0	21.50	21.43	21.42	21.52		
20	64QAM	1	49	21.46	21.52	21.36	21.52	22.5	2
20	64QAM	1	99	21.40	21.29	21.46	21.66		
20	64QAM	50	0	20.45	20.74	20.60	20.54		
20	64QAM	50	24	20.74	20.76	20.56	20.42	21.5	3
20	64QAM	50	50	20.62	20.65	20.50	20.51		
20	64QAM	100	0	20.27	20.62	20.36	20.37		
Channel				55315	55820	56160	56665	Tune-up limit	MPR
Frequency (MHz)				3557.5	3608	3642	3692.5	(dBm)	(dB)
15	QPSK	1	0	23.27	23.59	23.42	23.36	24.5	0
15	QPSK	1	37	23.42	23.43	23.27	23.29		
15	QPSK	1	74	23.46	23.44	23.38	23.37		
15	QPSK	36	0	22.25	22.50	22.44	22.35	23.5	1
15	QPSK	36	20	22.42	22.32	22.40	22.55		
15	QPSK	36	39	22.34	22.43	22.40	22.44		
15	QPSK	75	0	22.40	22.44	22.37	22.33	23.5	1
15	16QAM	1	0	22.34	22.35	22.33	22.45		
15	16QAM	1	37	22.33	22.58	22.33	22.36		
15	16QAM	1	74	22.35	22.23	22.30	22.50	22.5	2
15	16QAM	36	0	21.31	21.55	21.62	21.43		
15	16QAM	36	20	21.60	21.57	21.48	21.33		
15	16QAM	36	39	21.35	21.58	21.30	21.49	22.5	2
15	16QAM	75	0	21.22	21.56	21.40	21.33		
15	64QAM	1	0	21.39	21.26	21.37	21.48		
15	64QAM	1	37	21.37	21.44	21.20	21.35	22.5	2
15	64QAM	1	74	21.26	21.21	21.29	21.59		
15	64QAM	36	0	20.37	20.63	20.57	20.43		
15	64QAM	36	20	20.56	20.63	20.41	20.28	21.5	3
15	64QAM	36	39	20.51	20.47	20.39	20.41		
15	64QAM	75	0	20.19	20.50	20.25	20.20		
Channel				55290	55815	56165	56690	Tune-up limit	MPR
Frequency (MHz)				3555	3607.5	3642.5	3695	(dBm)	(dB)
10	QPSK	1	0	23.26	23.50	23.42	23.44	24.5	0
10	QPSK	1	25	23.44	23.44	23.22	23.40		
10	QPSK	1	49	23.38	23.39	23.37	23.39		
10	QPSK	25	0	22.35	22.52	22.38	22.41	23.5	1



10	QPSK	25	12	22.43	22.32	22.50	22.54		
10	QPSK	25	25	22.36	22.56	22.44	22.43		
10	QPSK	50	0	22.32	22.54	22.28	22.23		
10	16QAM	1	0	22.35	22.42	22.31	22.40	23.5	1
10	16QAM	1	25	22.38	22.57	22.36	22.31		
10	16QAM	1	49	22.35	22.27	22.29	22.54		
10	16QAM	25	0	21.23	21.65	21.58	21.45	22.5	2
10	16QAM	25	12	21.49	21.53	21.46	21.27		
10	16QAM	25	25	21.29	21.54	21.26	21.51		
10	16QAM	50	0	21.28	21.59	21.40	21.39		
10	64QAM	1	0	21.46	21.34	21.40	21.37	22.5	2
10	64QAM	1	25	21.36	21.46	21.24	21.49		
10	64QAM	1	49	21.27	21.17	21.38	21.51		
10	64QAM	25	0	20.29	20.71	20.45	20.41	21.5	3
10	64QAM	25	12	20.57	20.60	20.51	20.37		
10	64QAM	25	25	20.46	20.56	20.46	20.42		
10	64QAM	50	0	20.21	20.48	20.20	20.25		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	23.24	23.52	23.42	23.32	24.5	0
5	QPSK	1	12	23.33	23.35	23.30	23.38		
5	QPSK	1	24	23.31	23.39	23.29	23.35		
5	QPSK	12	0	22.34	22.58	22.51	22.40	23.5	1
5	QPSK	12	7	22.46	22.39	22.46	22.48		
5	QPSK	12	13	22.26	22.49	22.34	22.52		
5	QPSK	25	0	22.33	22.49	22.31	22.22		
5	16QAM	1	0	22.31	22.45	22.31	22.48	23.5	1
5	16QAM	1	12	22.37	22.49	22.34	22.26		
5	16QAM	1	24	22.38	22.26	22.37	22.47		
5	16QAM	12	0	21.31	21.66	21.61	21.39	22.5	2
5	16QAM	12	7	21.61	21.62	21.52	21.36		
5	16QAM	12	13	21.24	21.53	21.22	21.53		
5	16QAM	25	0	21.16	21.48	21.38	21.34		
5	64QAM	1	0	21.44	21.38	21.37	21.35	22.5	2
5	64QAM	1	12	21.43	21.44	21.27	21.47		
5	64QAM	1	24	21.32	21.26	21.40	21.63		
5	64QAM	12	0	20.32	20.65	20.55	20.42	21.5	3
5	64QAM	12	7	20.61	20.60	20.54	20.37		
5	64QAM	12	13	20.57	20.60	20.45	20.39		
5	64QAM	25	0	20.16	20.48	20.29	20.20		



Reduced Power Mode for DSI 0

Ant0

Band 38										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150		0		
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.34	23.42	23.37				
20	QPSK	1	49	23.24	23.30	23.27	24	0		
20	QPSK	1	99	23.21	23.26	23.18				
20	QPSK	50	0	22.32	22.40	22.27				
20	QPSK	50	24	22.27	22.39	22.18	23	1		
20	QPSK	50	50	22.24	22.26	22.24				
20	QPSK	100	0	22.03	22.17	22.14				
20	16QAM	1	0	22.27	22.39	22.36	23	1		
20	16QAM	1	49	22.20	22.32	22.20				
20	16QAM	1	99	22.18	22.35	22.16				
20	16QAM	50	0	21.29	21.31	21.33	22	2		
20	16QAM	50	24	21.24	21.25	21.34				
20	16QAM	50	50	21.19	21.29	21.26				
20	16QAM	100	0	21.11	21.24	21.15	22	2		
20	64QAM	1	0	20.96	20.94	20.92				
20	64QAM	1	49	20.88	21.01	20.92				
20	64QAM	1	99	20.75	20.91	20.83	21	3		
20	64QAM	50	0	20.25	20.44	20.37				
20	64QAM	50	24	20.29	20.36	20.23				
20	64QAM	50	50	20.22	20.15	20.16	21	3		
20	64QAM	100	0	20.25	20.26	20.19				
Channel				37825	38000	38175			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5	24	0		
15	QPSK	1	0	23.30	23.34	23.24				
15	QPSK	1	37	23.19	23.15	23.11				
15	QPSK	1	74	23.11	23.19	23.16	23	1		
15	QPSK	36	0	22.16	22.34	22.12				
15	QPSK	36	20	22.19	22.25	22.08				
15	QPSK	36	39	22.13	22.10	22.17	23	1		
15	QPSK	75	0	21.92	22.10	22.03				
15	16QAM	1	0	22.10	22.34	22.33				
15	16QAM	1	37	22.03	22.29	22.03	23	1		
15	16QAM	1	74	22.08	22.20	22.07				
15	16QAM	36	0	21.15	21.18	21.23				
15	16QAM	36	20	21.14	21.16	21.17	22	2		
15	16QAM	36	39	21.06	21.17	21.16				
15	16QAM	75	0	21.04	21.12	21.03				
15	64QAM	1	0	20.89	20.87	20.85	22	2		
15	64QAM	1	37	20.82	20.90	20.81				
15	64QAM	1	74	20.58	20.81	20.76				
15	64QAM	36	0	20.16	20.39	20.26	21	3		
15	64QAM	36	20	20.27	20.22	20.18				
15	64QAM	36	39	20.17	20.05	20.00				
15	64QAM	75	0	20.20	20.12	20.14	21	3		
Channel				37800	38000	38200			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.18	23.30	23.29	24	0		
10	QPSK	1	25	23.08	23.23	23.24				
10	QPSK	1	49	23.17	23.16	23.09				



10	QPSK	25	0	22.22	22.38	22.11	23	1
10	QPSK	25	12	22.13	22.30	22.07		
10	QPSK	25	25	22.06	22.10	22.11		
10	QPSK	50	0	21.95	22.03	22.04	23	1
10	16QAM	1	0	22.16	22.22	22.28		
10	16QAM	1	25	22.14	22.25	22.02		
10	16QAM	1	49	22.03	22.30	22.06	22	2
10	16QAM	25	0	21.26	21.20	21.16		
10	16QAM	25	12	21.18	21.18	21.19		
10	16QAM	25	25	21.15	21.13	21.09	22	2
10	16QAM	50	0	20.98	21.09	21.05		
10	64QAM	1	0	20.92	20.90	20.86		
10	64QAM	1	25	20.78	20.92	20.75	21	3
10	64QAM	1	49	20.68	20.88	20.73		
10	64QAM	25	0	20.22	20.31	20.24		
10	64QAM	25	12	20.26	20.26	20.11	21	3
10	64QAM	25	25	20.14	20.06	20.01		
10	64QAM	50	0	20.10	20.22	20.11		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	23.18	23.28	23.22	24	0
5	QPSK	1	12	23.09	23.21	23.23		
5	QPSK	1	24	23.07	23.11	23.14		
5	QPSK	12	0	22.19	22.30	22.15	23	1
5	QPSK	12	7	22.23	22.35	22.07		
5	QPSK	12	13	22.08	22.11	22.21		
5	QPSK	25	0	21.98	22.10	21.98	23	1
5	16QAM	1	0	22.20	22.23	22.27		
5	16QAM	1	12	22.13	22.30	22.08		
5	16QAM	1	24	22.00	22.31	22.01	22	2
5	16QAM	12	0	21.25	21.27	21.20		
5	16QAM	12	7	21.20	21.08	21.18		
5	16QAM	12	13	21.16	21.15	21.14	22	2
5	16QAM	25	0	20.98	21.11	20.97		
5	64QAM	1	0	20.87	20.82	20.89		
5	64QAM	1	12	20.85	20.98	20.90	21	3
5	64QAM	1	24	20.59	20.86	20.80		
5	64QAM	12	0	20.18	20.40	20.21		
5	64QAM	12	7	20.14	20.33	20.08	21	3
5	64QAM	12	13	20.18	19.99	19.98		
5	64QAM	25	0	20.08	20.17	20.02		



Ant2

Band 41										
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)	MPR (dB)
Channel				39750	40185	40620	41055	41490	25	0
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.54	23.45	23.61	23.44	23.60		
20	QPSK	1	49	23.39	23.45	23.47	23.44	23.50	24	1
20	QPSK	1	99	23.30	23.31	23.48	23.37	23.44		
20	QPSK	50	0	22.60	22.57	22.65	22.62	22.51		
20	QPSK	50	24	22.56	22.39	22.62	22.35	22.37	24	1
20	QPSK	50	50	22.41	22.40	22.55	22.45	22.36		
20	QPSK	100	0	22.47	22.47	22.68	22.54	22.51		
20	16QAM	1	0	22.63	22.52	22.66	22.38	22.63	24	1
20	16QAM	1	49	22.40	22.47	22.57	22.45	22.41		
20	16QAM	1	99	22.41	22.35	22.42	22.37	22.33		
20	16QAM	50	0	21.47	21.52	21.71	21.66	21.64	23	2
20	16QAM	50	24	21.50	21.43	21.63	21.40	21.57		
20	16QAM	50	50	21.40	21.44	21.56	21.42	21.41		
20	16QAM	100	0	21.46	21.44	21.68	21.54	21.51	23	2
20	64QAM	1	0	21.53	21.63	21.60	21.33	21.62		
20	64QAM	1	49	21.42	21.44	21.55	21.42	21.43		
20	64QAM	1	99	21.36	21.40	21.49	21.40	21.39	22	3
20	64QAM	50	0	20.58	20.59	20.68	20.62	20.59		
20	64QAM	50	24	20.44	20.52	20.54	20.36	20.52		
20	64QAM	50	50	20.40	20.50	20.51	20.48	20.47	22	3
20	64QAM	100	0	20.48	20.55	20.64	20.40	20.52		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.41	23.31	23.49	23.34	23.55	25.00	0
15	QPSK	1	37	23.29	23.42	23.30	23.32	23.37		
15	QPSK	1	74	23.19	23.20	23.43	23.24	23.41		
15	QPSK	36	0	22.48	22.49	22.57	22.46	22.40	24	1
15	QPSK	36	20	22.47	22.30	22.46	22.27	22.32		
15	QPSK	36	39	22.25	22.31	22.47	22.41	22.24		
15	QPSK	75	0	22.40	22.34	22.64	22.42	22.42	24	1
15	16QAM	1	0	22.56	22.36	22.60	22.27	22.56		
15	16QAM	1	37	22.30	22.39	22.45	22.34	22.26		
15	16QAM	1	74	22.31	22.21	22.34	22.23	22.21	23	2
15	16QAM	36	0	21.45	21.46	21.55	21.63	21.48		
15	16QAM	36	20	21.33	21.31	21.46	21.29	21.54		
15	16QAM	36	39	21.33	21.27	21.43	21.31	21.38	23	2
15	16QAM	75	0	21.31	21.28	21.58	21.49	21.44		
15	64QAM	1	0	21.36	21.52	21.42	21.31	21.46		
15	64QAM	1	37	21.35	21.42	21.48	21.38	21.35	23	2
15	64QAM	1	74	21.27	21.25	21.44	21.37	21.30		
15	64QAM	36	0	20.49	20.50	20.65	20.45	20.45		
15	64QAM	36	20	20.39	20.39	20.46	20.26	20.39	22	3
15	64QAM	36	39	20.33	20.35	20.34	20.30	20.42		
15	64QAM	75	0	20.41	20.41	20.48	20.35	20.46		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.44	23.29	23.46	23.39	23.44	25.00	0
10	QPSK	1	25	23.31	23.35	23.36	23.40	23.41		
10	QPSK	1	49	23.12	23.20	23.30	23.25	23.34		



10	QPSK	25	0	22.43	22.48	22.54	22.59	22.35	24	1
10	QPSK	25	12	22.43	22.30	22.49	22.30	22.26		
10	QPSK	25	25	22.32	22.34	22.42	22.34	22.21		
10	QPSK	50	0	22.37	22.40	22.53	22.51	22.40		
10	16QAM	1	0	22.50	22.48	22.51	22.31	22.50	24	1
10	16QAM	1	25	22.27	22.32	22.48	22.29	22.37		
10	16QAM	1	49	22.35	22.20	22.35	22.29	22.21		
10	16QAM	25	0	21.31	21.45	21.63	21.49	21.57	23	2
10	16QAM	25	12	21.32	21.34	21.56	21.26	21.46		
10	16QAM	25	25	21.35	21.31	21.45	21.29	21.31		
10	16QAM	50	0	21.37	21.32	21.53	21.46	21.48		
10	64QAM	1	0	21.42	21.48	21.56	21.36	21.56	23	2
10	64QAM	1	25	21.29	21.38	21.47	21.29	21.33		
10	64QAM	1	49	21.25	21.23	21.46	21.28	21.26		
10	64QAM	25	0	20.50	20.45	20.56	20.55	20.56	22	3
10	64QAM	25	12	20.40	20.47	20.39	20.29	20.37		
10	64QAM	25	25	20.35	20.43	20.33	20.41	20.44		
10	64QAM	50	0	20.32	20.50	20.57	20.32	20.41		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.38	23.36	23.46	23.29	23.42	25.00	0
5	QPSK	1	12	23.23	23.37	23.35	23.28	23.40		
5	QPSK	1	24	23.17	23.16	23.39	23.23	23.28		
5	QPSK	12	0	22.45	22.42	22.56	22.57	22.37	24	1
5	QPSK	12	7	22.53	22.27	22.45	22.19	22.25		
5	QPSK	12	13	22.29	22.38	22.51	22.39	22.21		
5	QPSK	25	0	22.45	22.29	22.57	22.41	22.48		
5	16QAM	1	0	22.53	22.45	22.60	22.30	22.54	24	1
5	16QAM	1	12	22.31	22.42	22.52	22.36	22.23		
5	16QAM	1	24	22.39	22.21	22.32	22.33	22.23		
5	16QAM	12	0	21.36	21.44	21.59	21.57	21.53	23	2
5	16QAM	12	7	21.33	21.26	21.45	21.28	21.48		
5	16QAM	12	13	21.35	21.31	21.48	21.32	21.24		
5	16QAM	25	0	21.44	21.26	21.58	21.39	21.34		
5	64QAM	1	0	21.35	21.57	21.46	21.24	21.51	23	2
5	64QAM	1	12	21.25	21.42	21.52	21.25	21.32		
5	64QAM	1	24	21.20	21.31	21.41	21.28	21.25		
5	64QAM	12	0	20.45	20.55	20.57	20.50	20.48	22	3
5	64QAM	12	7	20.38	20.35	20.45	20.33	20.37		
5	64QAM	12	13	20.31	20.45	20.40	20.44	20.39		
5	64QAM	25	0	20.43	20.49	20.58	20.33	20.45		



Ant3

Band 48									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	23.41	23.62	23.57	23.59	24.5	0
20	QPSK	1	49	23.46	23.48	23.39	23.43		
20	QPSK	1	99	23.49	23.54	23.46	23.43		
20	QPSK	50	0	22.42	22.66	22.55	22.49	23.5	1
20	QPSK	50	24	22.58	22.49	22.57	22.57		
20	QPSK	50	50	22.44	22.59	22.49	22.58		
20	QPSK	100	0	22.49	22.60	22.44	22.35	23.5	1
20	16QAM	1	0	22.43	22.52	22.43	22.50		
20	16QAM	1	49	22.42	22.62	22.49	22.39		
20	16QAM	1	99	22.42	22.40	22.41	22.58	22.5	2
20	16QAM	50	0	21.40	21.69	21.65	21.48		
20	16QAM	50	24	21.63	21.67	21.56	21.45		
20	16QAM	50	50	21.41	21.64	21.38	21.61	22.5	2
20	16QAM	100	0	21.31	21.63	21.44	21.45		
20	64QAM	1	0	21.50	21.43	21.42	21.52		
20	64QAM	1	49	21.46	21.52	21.36	21.52	22.5	2
20	64QAM	1	99	21.40	21.29	21.46	21.66		
20	64QAM	50	0	20.45	20.74	20.60	20.54		
20	64QAM	50	24	20.74	20.76	20.56	20.42	21.5	3
20	64QAM	50	50	20.62	20.65	20.50	20.51		
20	64QAM	100	0	20.27	20.62	20.36	20.37		
Channel				55315	55820	56160	56665	Tune-up limit	MPR
Frequency (MHz)				3557.5	3608	3642	3692.5	(dBm)	(dB)
15	QPSK	1	0	23.27	23.59	23.42	23.36	24.5	0
15	QPSK	1	37	23.42	23.43	23.27	23.29		
15	QPSK	1	74	23.46	23.44	23.38	23.37		
15	QPSK	36	0	22.25	22.50	22.44	22.35	23.5	1
15	QPSK	36	20	22.42	22.32	22.40	22.55		
15	QPSK	36	39	22.34	22.43	22.40	22.44		
15	QPSK	75	0	22.40	22.44	22.37	22.33	23.5	1
15	16QAM	1	0	22.34	22.35	22.33	22.45		
15	16QAM	1	37	22.33	22.58	22.33	22.36		
15	16QAM	1	74	22.35	22.23	22.30	22.50	22.5	2
15	16QAM	36	0	21.31	21.55	21.62	21.43		
15	16QAM	36	20	21.60	21.57	21.48	21.33		
15	16QAM	36	39	21.35	21.58	21.30	21.49	22.5	2
15	16QAM	75	0	21.22	21.56	21.40	21.33		
15	64QAM	1	0	21.39	21.26	21.37	21.48		
15	64QAM	1	37	21.37	21.44	21.20	21.35	22.5	2
15	64QAM	1	74	21.26	21.21	21.29	21.59		
15	64QAM	36	0	20.37	20.63	20.57	20.43		
15	64QAM	36	20	20.56	20.63	20.41	20.28	21.5	3
15	64QAM	36	39	20.51	20.47	20.39	20.41		
15	64QAM	75	0	20.19	20.50	20.25	20.20		
Channel				55290	55815	56165	56690	Tune-up limit	MPR
Frequency (MHz)				3555	3607.5	3642.5	3695	(dBm)	(dB)
10	QPSK	1	0	23.26	23.50	23.42	23.44	24.5	0
10	QPSK	1	25	23.44	23.44	23.22	23.40		
10	QPSK	1	49	23.38	23.39	23.37	23.39		
10	QPSK	25	0	22.35	22.52	22.38	22.41	23.5	1



10	QPSK	25	12	22.43	22.32	22.50	22.54		
10	QPSK	25	25	22.36	22.56	22.44	22.43		
10	QPSK	50	0	22.32	22.54	22.28	22.23		
10	16QAM	1	0	22.35	22.42	22.31	22.40	23.5	1
10	16QAM	1	25	22.38	22.57	22.36	22.31		
10	16QAM	1	49	22.35	22.27	22.29	22.54		
10	16QAM	25	0	21.23	21.65	21.58	21.45	22.5	2
10	16QAM	25	12	21.49	21.53	21.46	21.27		
10	16QAM	25	25	21.29	21.54	21.26	21.51		
10	16QAM	50	0	21.28	21.59	21.40	21.39		
10	64QAM	1	0	21.46	21.34	21.40	21.37	22.5	2
10	64QAM	1	25	21.36	21.46	21.24	21.49		
10	64QAM	1	49	21.27	21.17	21.38	21.51		
10	64QAM	25	0	20.29	20.71	20.45	20.41	21.5	3
10	64QAM	25	12	20.57	20.60	20.51	20.37		
10	64QAM	25	25	20.46	20.56	20.46	20.42		
10	64QAM	50	0	20.21	20.48	20.20	20.25		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	23.24	23.52	23.42	23.32	24.5	0
5	QPSK	1	12	23.33	23.35	23.30	23.38		
5	QPSK	1	24	23.31	23.39	23.29	23.35		
5	QPSK	12	0	22.34	22.58	22.51	22.40	23.5	1
5	QPSK	12	7	22.46	22.39	22.46	22.48		
5	QPSK	12	13	22.26	22.49	22.34	22.52		
5	QPSK	25	0	22.33	22.49	22.31	22.22		
5	16QAM	1	0	22.31	22.45	22.31	22.48	23.5	1
5	16QAM	1	12	22.37	22.49	22.34	22.26		
5	16QAM	1	24	22.38	22.26	22.37	22.47		
5	16QAM	12	0	21.31	21.66	21.61	21.39	22.5	2
5	16QAM	12	7	21.61	21.62	21.52	21.36		
5	16QAM	12	13	21.24	21.53	21.22	21.53		
5	16QAM	25	0	21.16	21.48	21.38	21.34		
5	64QAM	1	0	21.44	21.38	21.37	21.35	22.5	2
5	64QAM	1	12	21.43	21.44	21.27	21.47		
5	64QAM	1	24	21.32	21.26	21.40	21.63		
5	64QAM	12	0	20.32	20.65	20.55	20.42	21.5	3
5	64QAM	12	7	20.61	20.60	20.54	20.37		
5	64QAM	12	13	20.57	20.60	20.45	20.39		
5	64QAM	25	0	20.16	20.48	20.29	20.20		



Reduced Power Mode for DSI 1

Ant0

Band 38								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150	16.3	0
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	15.15	15.29	15.14		
20	QPSK	1	49	15.10	15.17	15.15	16.3	0
20	QPSK	1	99	15.06	15.07	15.03		
20	QPSK	50	0	15.01	15.15	15.13		
20	QPSK	50	24	14.91	15.03	15.14	16.3	0
20	QPSK	50	50	14.89	14.99	15.05		
20	QPSK	100	0	14.95	15.12	15.07		
20	16QAM	1	0	14.94	14.99	14.91	16.3	0
20	16QAM	1	49	14.95	15.07	14.98		
20	16QAM	1	99	14.92	15.07	14.99		
20	16QAM	50	0	14.92	14.96	14.97	16.3	0
20	16QAM	50	24	15.09	15.03	15.04		
20	16QAM	50	50	15.02	15.06	14.87		
20	16QAM	100	0	15.09	15.04	15.10	16.3	0
20	64QAM	1	0	15.05	15.11	15.01		
20	64QAM	1	49	15.07	14.94	15.01		
20	64QAM	1	99	14.98	15.06	14.91	16.3	0
20	64QAM	50	0	14.97	15.04	14.93		
20	64QAM	50	24	14.97	14.91	14.97		
20	64QAM	50	50	15.08	15.01	15.02	16.3	0
20	64QAM	100	0	14.98	15.08	14.89		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	15.01	15.16	14.89		
15	QPSK	1	37	15.03	15.09	15.13	16.3	0
15	QPSK	1	74	14.99	14.92	14.87		
15	QPSK	36	0	14.97	15.10	15.01		
15	QPSK	36	20	14.79	14.97	14.98	16.3	0
15	QPSK	36	39	14.74	14.91	14.98		
15	QPSK	75	0	14.80	14.96	15.03		
15	16QAM	1	0	14.87	14.82	14.83	16.3	0
15	16QAM	1	37	14.86	14.91	14.83		
15	16QAM	1	74	14.84	15.04	14.94		
15	16QAM	36	0	14.79	14.90	14.85	16.3	0
15	16QAM	36	20	14.94	14.90	14.96		
15	16QAM	36	39	14.96	15.00	14.78		
15	16QAM	75	0	15.02	14.88	15.02	16.3	0
15	64QAM	1	0	15.01	15.04	14.89		
15	64QAM	1	37	14.90	14.77	14.94		
15	64QAM	1	74	14.82	14.93	14.73	16.3	0
15	64QAM	36	0	14.90	14.86	14.80		
15	64QAM	36	20	14.88	14.76	14.91		
15	64QAM	36	39	15.02	14.94	14.93	16.3	0
15	64QAM	36	75	14.91	14.91	14.86		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	14.96	15.04	14.94		
10	QPSK	1	25	14.97	15.15	15.10	16.3	0
10	QPSK	1	49	14.93	14.92	14.95		



10	QPSK	25	0	14.88	15.02	15.03	16.3	0
10	QPSK	25	12	14.86	14.89	15.11		
10	QPSK	25	25	14.83	14.91	14.91		
10	QPSK	50	0	14.84	14.98	15.03		
10	16QAM	1	0	14.84	14.84	14.85	16.3	0
10	16QAM	1	25	14.88	14.97	14.94		
10	16QAM	1	49	14.89	14.96	14.81		
10	16QAM	25	0	14.82	14.83	14.81	16.3	0
10	16QAM	25	12	15.07	14.99	15.00		
10	16QAM	25	25	14.86	14.91	14.78		
10	16QAM	50	0	15.03	14.91	15.07		
10	64QAM	1	0	15.03	14.95	14.84	16.3	0
10	64QAM	1	25	15.01	14.89	14.86		
10	64QAM	1	49	14.87	15.01	14.89		
10	64QAM	25	0	14.81	14.87	14.88	16.3	0
10	64QAM	25	12	14.91	14.75	14.91		
10	64QAM	25	25	14.94	14.84	14.90		
10	64QAM	50	0	14.88	14.94	14.85		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	14.96	15.09	14.91	16.3	0
5	QPSK	1	12	15.05	15.04	15.11		
5	QPSK	1	24	15.02	15.04	14.99		
5	QPSK	12	0	14.97	15.03	14.95	16.3	0
5	QPSK	12	7	14.84	14.99	15.08		
5	QPSK	12	13	14.83	14.86	14.99		
5	QPSK	25	0	14.82	15.05	15.01		
5	16QAM	1	0	14.81	14.96	14.83	16.3	0
5	16QAM	1	12	14.88	14.94	14.81		
5	16QAM	1	24	14.78	14.90	14.91		
5	16QAM	12	0	14.84	14.92	14.93	16.3	0
5	16QAM	12	7	14.94	14.93	14.90		
5	16QAM	12	13	14.95	14.94	14.75		
5	16QAM	25	0	15.02	14.98	15.01		
5	64QAM	1	0	14.95	15.05	14.99	16.3	0
5	64QAM	1	12	14.89	14.82	14.95		
5	64QAM	1	24	14.91	14.97	14.89		
5	64QAM	12	0	14.91	14.88	14.77	16.3	0
5	64QAM	12	7	14.90	14.76	14.90		
5	64QAM	12	13	15.03	14.97	14.85		
5	64QAM	25	0	14.92	14.92	14.87		



Ant2

Band 41												
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)	MPR (dB)		
Channel				39750	40185	40620	41055	41490	19.8	0		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	18.61	18.58	18.75	18.57	18.51				
20	QPSK	1	49	18.60	18.53	18.74	18.69	18.66	19.8	0		
20	QPSK	1	99	18.61	18.55	18.59	18.52	18.51				
20	QPSK	50	0	18.55	18.58	18.72	18.68	18.66				
20	QPSK	50	24	18.48	18.43	18.57	18.60	18.58	19.8	0		
20	QPSK	50	50	18.44	18.42	18.55	18.52	18.56				
20	QPSK	100	0	18.46	18.46	18.68	18.50	18.52				
20	16QAM	1	0	18.45	18.42	18.45	18.39	18.44	19.8	0		
20	16QAM	1	49	18.52	18.51	18.57	18.54	18.54				
20	16QAM	1	99	18.38	18.45	18.59	18.41	18.52				
20	16QAM	50	0	18.45	18.42	18.48	18.46	18.55	19.8	0		
20	16QAM	50	24	18.66	18.61	18.47	18.62	18.51				
20	16QAM	50	50	18.55	18.47	18.49	18.30	18.34				
20	16QAM	100	0	18.53	18.52	18.59	18.60	18.67	19.8	0		
20	64QAM	1	0	18.63	18.49	18.61	18.45	18.52				
20	64QAM	1	49	18.62	18.52	18.36	18.53	18.51				
20	64QAM	1	99	18.40	18.41	18.51	18.34	18.43	19.8	0		
20	64QAM	50	0	18.53	18.52	18.56	18.37	18.42				
20	64QAM	50	24	18.53	18.48	18.34	18.45	18.43				
20	64QAM	50	50	18.53	18.65	18.53	18.49	18.47	19.8	0		
20	64QAM	100	0	18.41	18.54	18.52	18.46	18.43				
Channel				39725	40173	40620	41068	41515			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	19.80	0		
15	QPSK	1	0	18.55	18.55	18.72	18.53	18.43				
15	QPSK	1	37	18.55	18.45	18.60	18.53	18.51				
15	QPSK	1	74	18.51	18.38	18.48	18.38	18.47	19.8	0		
15	QPSK	36	0	18.46	18.49	18.66	18.54	18.57				
15	QPSK	36	20	18.33	18.26	18.47	18.49	18.51				
15	QPSK	36	39	18.32	18.31	18.45	18.48	18.40	19.8	0		
15	QPSK	75	0	18.43	18.33	18.55	18.35	18.50				
15	16QAM	1	0	18.41	18.25	18.30	18.29	18.35				
15	16QAM	1	37	18.40	18.49	18.45	18.43	18.43	19.8	0		
15	16QAM	1	74	18.32	18.27	18.56	18.33	18.37				
15	16QAM	36	0	18.29	18.36	18.35	18.35	18.38				
15	16QAM	36	20	18.58	18.51	18.39	18.44	18.40	19.8	0		
15	16QAM	36	39	18.48	18.39	18.38	18.16	18.24				
15	16QAM	75	0	18.42	18.43	18.41	18.48	18.53				
15	64QAM	1	0	18.46	18.33	18.56	18.30	18.49	19.8	0		
15	64QAM	1	37	18.59	18.49	18.24	18.40	18.48				
15	64QAM	1	74	18.33	18.30	18.36	18.30	18.27				
15	64QAM	36	0	18.44	18.38	18.48	18.20	18.28	19.8	0		
15	64QAM	36	20	18.39	18.44	18.32	18.33	18.39				
15	64QAM	36	39	18.38	18.57	18.42	18.32	18.34				
15	64QAM	75	0	18.30	18.52	18.43	18.32	18.29	19.80	0		
Channel				39700	40160	40620	41080	41540			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	18.56	18.45	18.69	18.53	18.45	19.80	0		
10	QPSK	1	25	18.49	18.39	18.68	18.63	18.52				
10	QPSK	1	49	18.45	18.52	18.46	18.49	18.38				



10	QPSK	25	0	18.45	18.48	18.60	18.58	18.54	19.8	0
10	QPSK	25	12	18.37	18.28	18.39	18.52	18.41		
10	QPSK	25	25	18.38	18.32	18.45	18.38	18.44		
10	QPSK	50	0	18.35	18.43	18.61	18.33	18.46		
10	16QAM	1	0	18.32	18.34	18.38	18.34	18.38	19.8	0
10	16QAM	1	25	18.49	18.39	18.44	18.51	18.36		
10	16QAM	1	49	18.27	18.38	18.49	18.28	18.45		
10	16QAM	25	0	18.38	18.33	18.38	18.31	18.48	19.8	0
10	16QAM	25	12	18.57	18.48	18.37	18.53	18.39		
10	16QAM	25	25	18.46	18.32	18.33	18.20	18.32		
10	16QAM	50	0	18.39	18.50	18.53	18.49	18.63		
10	64QAM	1	0	18.59	18.37	18.43	18.35	18.42	19.8	0
10	64QAM	1	25	18.55	18.41	18.19	18.45	18.47		
10	64QAM	1	49	18.36	18.25	18.48	18.26	18.40		
10	64QAM	25	0	18.40	18.44	18.45	18.34	18.38	19.8	0
10	64QAM	25	12	18.48	18.31	18.20	18.33	18.40		
10	64QAM	25	25	18.41	18.57	18.49	18.32	18.32		
10	64QAM	50	0	18.24	18.51	18.40	18.40	18.35		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	18.41	18.53	18.62	18.45	18.37	19.80	0
5	QPSK	1	12	18.45	18.50	18.63	18.56	18.59		
5	QPSK	1	24	18.51	18.50	18.57	18.44	18.33		
5	QPSK	12	0	18.38	18.41	18.65	18.54	18.50	19.8	0
5	QPSK	12	7	18.33	18.28	18.47	18.50	18.42		
5	QPSK	12	13	18.30	18.26	18.46	18.44	18.50		
5	QPSK	25	0	18.33	18.31	18.53	18.36	18.50		
5	16QAM	1	0	18.41	18.27	18.38	18.26	18.33	19.8	0
5	16QAM	1	12	18.35	18.48	18.52	18.44	18.41		
5	16QAM	1	24	18.25	18.38	18.51	18.35	18.41		
5	16QAM	12	0	18.35	18.33	18.37	18.44	18.47	19.8	0
5	16QAM	12	7	18.53	18.52	18.43	18.44	18.42		
5	16QAM	12	13	18.42	18.39	18.39	18.24	18.21		
5	16QAM	25	0	18.45	18.50	18.50	18.49	18.54		
5	64QAM	1	0	18.47	18.38	18.50	18.37	18.45	19.8	0
5	64QAM	1	12	18.50	18.42	18.24	18.41	18.34		
5	64QAM	1	24	18.31	18.26	18.37	18.23	18.36		
5	64QAM	12	0	18.36	18.37	18.47	18.20	18.34	19.8	0
5	64QAM	12	7	18.45	18.40	18.26	18.30	18.40		
5	64QAM	12	13	18.48	18.58	18.38	18.43	18.43		
5	64QAM	25	0	18.26	18.51	18.50	18.44	18.27		



Ant3

Band 48									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640	11.5	0
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	10.70	10.79	10.74	10.76	11.5	0
20	QPSK	1	49	10.74	10.76	10.73	10.69		
20	QPSK	1	99	10.46	10.59	10.51	10.55		
20	QPSK	50	0	10.67	10.72	10.68	10.65	11.5	0
20	QPSK	50	24	10.56	10.69	10.62	10.69		
20	QPSK	50	50	10.38	10.50	10.42	10.45		
20	QPSK	100	0	10.57	10.64	10.56	10.54	11.5	0
20	16QAM	1	0	10.52	10.49	10.58	10.65		
20	16QAM	1	49	10.66	10.64	10.67	10.61		
20	16QAM	1	99	10.59	10.58	10.59	10.62	11.5	0
20	16QAM	50	0	10.41	10.40	10.45	10.46		
20	16QAM	50	24	10.43	10.56	10.56	10.52		
20	16QAM	50	50	10.56	10.57	10.54	10.56	11.5	0
20	16QAM	100	0	10.54	10.56	10.45	10.52		
20	64QAM	1	0	10.65	10.71	10.60	10.72		
20	64QAM	1	49	10.37	10.41	10.48	10.41	11.5	0
20	64QAM	1	99	10.54	10.50	10.60	10.60		
20	64QAM	50	0	10.58	10.56	10.50	10.56		
20	64QAM	50	24	10.50	10.46	10.48	10.50	11.5	0
20	64QAM	50	50	10.46	10.53	10.46	10.54		
20	64QAM	100	0	10.57	10.62	10.62	10.60		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5	11.5	0
15	QPSK	1	0	10.65	10.73	10.68	10.60		
15	QPSK	1	37	10.59	10.62	10.69	10.58	11.5	0
15	QPSK	1	74	10.42	10.46	10.44	10.46		
15	QPSK	36	0	10.65	10.65	10.51	10.49		
15	QPSK	36	20	10.38	10.60	10.48	10.60	11.5	0
15	QPSK	36	39	10.20	10.33	10.29	10.32		
15	QPSK	75	0	10.43	10.53	10.51	10.47		
15	16QAM	1	0	10.41	10.32	10.49	10.55	11.5	0
15	16QAM	1	37	10.51	10.56	10.57	10.59		
15	16QAM	1	74	10.48	10.45	10.48	10.59		
15	16QAM	36	0	10.24	10.28	10.33	10.34	11.5	0
15	16QAM	36	20	10.39	10.39	10.43	10.41		
15	16QAM	36	39	10.39	10.51	10.37	10.39		
15	16QAM	75	0	10.39	10.44	10.34	10.46	11.5	0
15	64QAM	1	0	10.58	10.62	10.51	10.57		
15	64QAM	1	37	10.30	10.27	10.33	10.27		
15	64QAM	1	74	10.47	10.47	10.44	10.50	11.5	0
15	64QAM	36	0	10.42	10.42	10.48	10.39		
15	64QAM	36	20	10.40	10.32	10.39	10.34		
15	64QAM	36	39	10.43	10.37	10.32	10.49	11.5	0
15	64QAM	75	0	10.49	10.59	10.57	10.56		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695	11.5	0
10	QPSK	1	0	10.61	10.64	10.64	10.59		
10	QPSK	1	25	10.64	10.62	10.67	10.53	11.5	0
10	QPSK	1	49	10.33	10.54	10.45	10.46		
10	QPSK	25	0	10.63	10.59	10.58	10.59		



10	QPSK	25	12	10.38	10.67	10.59	10.66		
10	QPSK	25	25	10.22	10.38	10.25	10.28		
10	QPSK	50	0	10.40	10.54	10.48	10.45		
10	16QAM	1	0	10.47	10.34	10.48	10.63	11.5	0
10	16QAM	1	25	10.55	10.59	10.59	10.54		
10	16QAM	1	49	10.47	10.53	10.45	10.53		
10	16QAM	25	0	10.34	10.28	10.38	10.36	11.5	0
10	16QAM	25	12	10.26	10.47	10.48	10.40		
10	16QAM	25	25	10.48	10.42	10.38	10.50		
10	16QAM	50	0	10.39	10.45	10.42	10.41		
10	64QAM	1	0	10.51	10.56	10.43	10.61	11.5	0
10	64QAM	1	25	10.32	10.23	10.44	10.29		
10	64QAM	1	49	10.39	10.44	10.56	10.49		
10	64QAM	25	0	10.47	10.46	10.45	10.42	11.5	0
10	64QAM	25	12	10.40	10.38	10.41	10.33		
10	64QAM	25	25	10.42	10.43	10.35	10.47		
10	64QAM	50	0	10.49	10.57	10.59	10.52		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	10.64	10.70	10.69	10.54	11.5	0
5	QPSK	1	12	10.64	10.69	10.66	10.59		
5	QPSK	1	24	10.30	10.56	10.37	10.42		
5	QPSK	12	0	10.54	10.57	10.65	10.50	11.5	0
5	QPSK	12	7	10.52	10.55	10.47	10.64		
5	QPSK	12	13	10.24	10.33	10.28	10.33		
5	QPSK	25	0	10.51	10.61	10.49	10.46		
5	16QAM	1	0	10.43	10.33	10.42	10.55		
5	16QAM	1	12	10.60	10.55	10.62	10.49	11.5	0
5	16QAM	1	24	10.56	10.45	10.44	10.56		
5	16QAM	12	0	10.39	10.26	10.36	10.28	11.5	0
5	16QAM	12	7	10.37	10.45	10.47	10.49		
5	16QAM	12	13	10.52	10.50	10.49	10.53		
5	16QAM	25	0	10.51	10.45	10.31	10.47		
5	64QAM	1	0	10.55	10.54	10.55	10.56		
5	64QAM	1	12	10.34	10.24	10.46	10.38	11.5	0
5	64QAM	1	24	10.45	10.33	10.44	10.52		
5	64QAM	12	0	10.53	10.46	10.42	10.52		
5	64QAM	12	7	10.44	10.44	10.35	10.33	11.5	0
5	64QAM	12	13	10.40	10.41	10.39	10.46		
5	64QAM	25	0	10.52	10.56	10.48	10.45		
5	64QAM	25	0	10.52	10.56	10.48	10.45		



Reduced Power Mode for DSI 2

Ant0

Band 38										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				37850	38000	38150				
Frequency (MHz)				2580	2595	2610				
20	QPSK	1	0	23.34	23.42	23.37				
20	QPSK	1	49	23.24	23.30	23.27	24	0		
20	QPSK	1	99	23.21	23.26	23.18				
20	QPSK	50	0	22.32	22.40	22.27				
20	QPSK	50	24	22.27	22.39	22.18	23	1		
20	QPSK	50	50	22.24	22.26	22.24				
20	QPSK	100	0	22.03	22.17	22.14				
20	16QAM	1	0	22.27	22.39	22.36	23	1		
20	16QAM	1	49	22.20	22.32	22.20				
20	16QAM	1	99	22.18	22.35	22.16				
20	16QAM	50	0	21.29	21.31	21.33	22	2		
20	16QAM	50	24	21.24	21.25	21.34				
20	16QAM	50	50	21.19	21.29	21.26				
20	16QAM	100	0	21.11	21.24	21.15	22	2		
20	64QAM	1	0	20.96	20.94	20.92				
20	64QAM	1	49	20.88	21.01	20.92				
20	64QAM	1	99	20.75	20.91	20.83	21	3		
20	64QAM	50	0	20.25	20.44	20.37				
20	64QAM	50	24	20.29	20.36	20.23				
20	64QAM	50	50	20.22	20.15	20.16	21	3		
20	64QAM	100	0	20.25	20.26	20.19				
Channel				37825	38000	38175			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2577.5	2595	2612.5	24	0		
15	QPSK	1	0	23.30	23.34	23.24				
15	QPSK	1	37	23.19	23.15	23.11				
15	QPSK	1	74	23.11	23.19	23.16	23	1		
15	QPSK	36	0	22.16	22.34	22.12				
15	QPSK	36	20	22.19	22.25	22.08				
15	QPSK	36	39	22.13	22.10	22.17	23	1		
15	QPSK	75	0	21.92	22.10	22.03				
15	16QAM	1	0	22.10	22.34	22.33				
15	16QAM	1	37	22.03	22.29	22.03	23	1		
15	16QAM	1	74	22.08	22.20	22.07				
15	16QAM	36	0	21.15	21.18	21.23				
15	16QAM	36	20	21.14	21.16	21.17	22	2		
15	16QAM	36	39	21.06	21.17	21.16				
15	16QAM	75	0	21.04	21.12	21.03				
15	64QAM	1	0	20.89	20.87	20.85	22	2		
15	64QAM	1	37	20.82	20.90	20.81				
15	64QAM	1	74	20.58	20.81	20.76				
15	64QAM	36	0	20.16	20.39	20.26	21	3		
15	64QAM	36	20	20.27	20.22	20.18				
15	64QAM	36	39	20.17	20.05	20.00				
15	64QAM	75	0	20.20	20.12	20.14	21	3		
Channel				37800	38000	38200			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2575	2595	2615				
10	QPSK	1	0	23.18	23.30	23.29	24	0		
10	QPSK	1	25	23.08	23.23	23.24				
10	QPSK	1	49	23.17	23.16	23.09				



10	QPSK	25	0	22.22	22.38	22.11	23	1
10	QPSK	25	12	22.13	22.30	22.07		
10	QPSK	25	25	22.06	22.10	22.11		
10	QPSK	50	0	21.95	22.03	22.04	23	1
10	16QAM	1	0	22.16	22.22	22.28		
10	16QAM	1	25	22.14	22.25	22.02		
10	16QAM	1	49	22.03	22.30	22.06	22	2
10	16QAM	25	0	21.26	21.20	21.16		
10	16QAM	25	12	21.18	21.18	21.19		
10	16QAM	25	25	21.15	21.13	21.09	22	2
10	16QAM	50	0	20.98	21.09	21.05		
10	64QAM	1	0	20.92	20.90	20.86		
10	64QAM	1	25	20.78	20.92	20.75	21	3
10	64QAM	1	49	20.68	20.88	20.73		
10	64QAM	25	0	20.22	20.31	20.24		
10	64QAM	25	12	20.26	20.26	20.11	21	3
10	64QAM	25	25	20.14	20.06	20.01		
10	64QAM	50	0	20.10	20.22	20.11		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	23.18	23.28	23.22	24	0
5	QPSK	1	12	23.09	23.21	23.23		
5	QPSK	1	24	23.07	23.11	23.14		
5	QPSK	12	0	22.19	22.30	22.15	23	1
5	QPSK	12	7	22.23	22.35	22.07		
5	QPSK	12	13	22.08	22.11	22.21		
5	QPSK	25	0	21.98	22.10	21.98	23	1
5	16QAM	1	0	22.20	22.23	22.27		
5	16QAM	1	12	22.13	22.30	22.08		
5	16QAM	1	24	22.00	22.31	22.01	22	2
5	16QAM	12	0	21.25	21.27	21.20		
5	16QAM	12	7	21.20	21.08	21.18		
5	16QAM	12	13	21.16	21.15	21.14	22	2
5	16QAM	25	0	20.98	21.11	20.97		
5	64QAM	1	0	20.87	20.82	20.89		
5	64QAM	1	12	20.85	20.98	20.90	22	2
5	64QAM	1	24	20.59	20.86	20.80		
5	64QAM	12	0	20.18	20.40	20.21		
5	64QAM	12	7	20.14	20.33	20.08	21	3
5	64QAM	12	13	20.18	19.99	19.98		
5	64QAM	25	0	20.08	20.17	20.02		



Ant2

Band 41										
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)	MPR (dB)
Channel				39750	40185	40620	41055	41490	25	0
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	23.54	23.45	23.61	23.44	23.60		
20	QPSK	1	49	23.39	23.45	23.47	23.44	23.50	24	1
20	QPSK	1	99	23.30	23.31	23.48	23.37	23.44		
20	QPSK	50	0	22.60	22.57	22.65	22.62	22.51		
20	QPSK	50	24	22.56	22.39	22.62	22.35	22.37	24	1
20	QPSK	50	50	22.41	22.40	22.55	22.45	22.36		
20	QPSK	100	0	22.47	22.47	22.68	22.54	22.51		
20	16QAM	1	0	22.63	22.52	22.66	22.38	22.63	24	1
20	16QAM	1	49	22.40	22.47	22.57	22.45	22.41		
20	16QAM	1	99	22.41	22.35	22.42	22.37	22.33		
20	16QAM	50	0	21.47	21.52	21.71	21.66	21.64	23	2
20	16QAM	50	24	21.50	21.43	21.63	21.40	21.57		
20	16QAM	50	50	21.40	21.44	21.56	21.42	21.41		
20	16QAM	100	0	21.46	21.44	21.68	21.54	21.51	23	2
20	64QAM	1	0	21.53	21.63	21.60	21.33	21.62		
20	64QAM	1	49	21.42	21.44	21.55	21.42	21.43		
20	64QAM	1	99	21.36	21.40	21.49	21.40	21.39	22	3
20	64QAM	50	0	20.58	20.59	20.68	20.62	20.59		
20	64QAM	50	24	20.44	20.52	20.54	20.36	20.52		
20	64QAM	50	50	20.40	20.50	20.51	20.48	20.47	22	3
20	64QAM	100	0	20.48	20.55	20.64	20.40	20.52		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	23.41	23.31	23.49	23.34	23.55	25.00	0
15	QPSK	1	37	23.29	23.42	23.30	23.32	23.37		
15	QPSK	1	74	23.19	23.20	23.43	23.24	23.41		
15	QPSK	36	0	22.48	22.49	22.57	22.46	22.40	24	1
15	QPSK	36	20	22.47	22.30	22.46	22.27	22.32		
15	QPSK	36	39	22.25	22.31	22.47	22.41	22.24		
15	QPSK	75	0	22.40	22.34	22.64	22.42	22.42	24	1
15	16QAM	1	0	22.56	22.36	22.60	22.27	22.56		
15	16QAM	1	37	22.30	22.39	22.45	22.34	22.26		
15	16QAM	1	74	22.31	22.21	22.34	22.23	22.21	23	2
15	16QAM	36	0	21.45	21.46	21.55	21.63	21.48		
15	16QAM	36	20	21.33	21.31	21.46	21.29	21.54		
15	16QAM	36	39	21.33	21.27	21.43	21.31	21.38	23	2
15	16QAM	75	0	21.31	21.28	21.58	21.49	21.44		
15	64QAM	1	0	21.36	21.52	21.42	21.31	21.46		
15	64QAM	1	37	21.35	21.42	21.48	21.38	21.35	23	2
15	64QAM	1	74	21.27	21.25	21.44	21.37	21.30		
15	64QAM	36	0	20.49	20.50	20.65	20.45	20.45		
15	64QAM	36	20	20.39	20.39	20.46	20.26	20.39	22	3
15	64QAM	36	39	20.33	20.35	20.34	20.30	20.42		
15	64QAM	75	0	20.41	20.41	20.48	20.35	20.46		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	23.44	23.29	23.46	23.39	23.44	25.00	0
10	QPSK	1	25	23.31	23.35	23.36	23.40	23.41		
10	QPSK	1	49	23.12	23.20	23.30	23.25	23.34		



10	QPSK	25	0	22.43	22.48	22.54	22.59	22.35	24	1
10	QPSK	25	12	22.43	22.30	22.49	22.30	22.26		
10	QPSK	25	25	22.32	22.34	22.42	22.34	22.21		
10	QPSK	50	0	22.37	22.40	22.53	22.51	22.40		
10	16QAM	1	0	22.50	22.48	22.51	22.31	22.50	24	1
10	16QAM	1	25	22.27	22.32	22.48	22.29	22.37		
10	16QAM	1	49	22.35	22.20	22.35	22.29	22.21		
10	16QAM	25	0	21.31	21.45	21.63	21.49	21.57	23	2
10	16QAM	25	12	21.32	21.34	21.56	21.26	21.46		
10	16QAM	25	25	21.35	21.31	21.45	21.29	21.31		
10	16QAM	50	0	21.37	21.32	21.53	21.46	21.48		
10	64QAM	1	0	21.42	21.48	21.56	21.36	21.56	23	2
10	64QAM	1	25	21.29	21.38	21.47	21.29	21.33		
10	64QAM	1	49	21.25	21.23	21.46	21.28	21.26		
10	64QAM	25	0	20.50	20.45	20.56	20.55	20.56	22	3
10	64QAM	25	12	20.40	20.47	20.39	20.29	20.37		
10	64QAM	25	25	20.35	20.43	20.33	20.41	20.44		
10	64QAM	50	0	20.32	20.50	20.57	20.32	20.41		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	23.38	23.36	23.46	23.29	23.42	25.00	0
5	QPSK	1	12	23.23	23.37	23.35	23.28	23.40		
5	QPSK	1	24	23.17	23.16	23.39	23.23	23.28		
5	QPSK	12	0	22.45	22.42	22.56	22.57	22.37	24	1
5	QPSK	12	7	22.53	22.27	22.45	22.19	22.25		
5	QPSK	12	13	22.29	22.38	22.51	22.39	22.21		
5	QPSK	25	0	22.45	22.29	22.57	22.41	22.48		
5	16QAM	1	0	22.53	22.45	22.60	22.30	22.54	24	1
5	16QAM	1	12	22.31	22.42	22.52	22.36	22.23		
5	16QAM	1	24	22.39	22.21	22.32	22.33	22.23		
5	16QAM	12	0	21.36	21.44	21.59	21.57	21.53	23	2
5	16QAM	12	7	21.33	21.26	21.45	21.28	21.48		
5	16QAM	12	13	21.35	21.31	21.48	21.32	21.24		
5	16QAM	25	0	21.44	21.26	21.58	21.39	21.34		
5	64QAM	1	0	21.35	21.57	21.46	21.24	21.51	23	2
5	64QAM	1	12	21.25	21.42	21.52	21.25	21.32		
5	64QAM	1	24	21.20	21.31	21.41	21.28	21.25		
5	64QAM	12	0	20.45	20.55	20.57	20.50	20.48	22	3
5	64QAM	12	7	20.38	20.35	20.45	20.33	20.37		
5	64QAM	12	13	20.31	20.45	20.40	20.44	20.39		
5	64QAM	25	0	20.43	20.49	20.58	20.33	20.45		



Ant3

Band 48									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640		
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	23.41	23.62	23.57	23.59	24.5	0
20	QPSK	1	49	23.46	23.48	23.39	23.43		
20	QPSK	1	99	23.49	23.54	23.46	23.43		
20	QPSK	50	0	22.42	22.66	22.55	22.49	23.5	1
20	QPSK	50	24	22.58	22.49	22.57	22.57		
20	QPSK	50	50	22.44	22.59	22.49	22.58		
20	QPSK	100	0	22.49	22.60	22.44	22.35	23.5	1
20	16QAM	1	0	22.43	22.52	22.43	22.50		
20	16QAM	1	49	22.42	22.62	22.49	22.39		
20	16QAM	1	99	22.42	22.40	22.41	22.58	22.5	2
20	16QAM	50	0	21.40	21.69	21.65	21.48		
20	16QAM	50	24	21.63	21.67	21.56	21.45		
20	16QAM	50	50	21.41	21.64	21.38	21.61	22.5	2
20	16QAM	100	0	21.31	21.63	21.44	21.45		
20	64QAM	1	0	21.50	21.43	21.42	21.52		
20	64QAM	1	49	21.46	21.52	21.36	21.52	22.5	2
20	64QAM	1	99	21.40	21.29	21.46	21.66		
20	64QAM	50	0	20.45	20.74	20.60	20.54		
20	64QAM	50	24	20.74	20.76	20.56	20.42	21.5	3
20	64QAM	50	50	20.62	20.65	20.50	20.51		
20	64QAM	100	0	20.27	20.62	20.36	20.37		
Channel				55315	55820	56160	56665	Tune-up limit	MPR
Frequency (MHz)				3557.5	3608	3642	3692.5	(dBm)	(dB)
15	QPSK	1	0	23.27	23.59	23.42	23.36	24.5	0
15	QPSK	1	37	23.42	23.43	23.27	23.29		
15	QPSK	1	74	23.46	23.44	23.38	23.37		
15	QPSK	36	0	22.25	22.50	22.44	22.35	23.5	1
15	QPSK	36	20	22.42	22.32	22.40	22.55		
15	QPSK	36	39	22.34	22.43	22.40	22.44		
15	QPSK	75	0	22.40	22.44	22.37	22.33	23.5	1
15	16QAM	1	0	22.34	22.35	22.33	22.45		
15	16QAM	1	37	22.33	22.58	22.33	22.36		
15	16QAM	1	74	22.35	22.23	22.30	22.50	22.5	2
15	16QAM	36	0	21.31	21.55	21.62	21.43		
15	16QAM	36	20	21.60	21.57	21.48	21.33		
15	16QAM	36	39	21.35	21.58	21.30	21.49	22.5	2
15	16QAM	75	0	21.22	21.56	21.40	21.33		
15	64QAM	1	0	21.39	21.26	21.37	21.48		
15	64QAM	1	37	21.37	21.44	21.20	21.35	22.5	2
15	64QAM	1	74	21.26	21.21	21.29	21.59		
15	64QAM	36	0	20.37	20.63	20.57	20.43		
15	64QAM	36	20	20.56	20.63	20.41	20.28	21.5	3
15	64QAM	36	39	20.51	20.47	20.39	20.41		
15	64QAM	75	0	20.19	20.50	20.25	20.20		
Channel				55290	55815	56165	56690	Tune-up limit	MPR
Frequency (MHz)				3555	3607.5	3642.5	3695	(dBm)	(dB)
10	QPSK	1	0	23.26	23.50	23.42	23.44	24.5	0
10	QPSK	1	25	23.44	23.44	23.22	23.40		
10	QPSK	1	49	23.38	23.39	23.37	23.39		
10	QPSK	25	0	22.35	22.52	22.38	22.41	23.5	1



10	QPSK	25	12	22.43	22.32	22.50	22.54		
10	QPSK	25	25	22.36	22.56	22.44	22.43		
10	QPSK	50	0	22.32	22.54	22.28	22.23		
10	16QAM	1	0	22.35	22.42	22.31	22.40	23.5	1
10	16QAM	1	25	22.38	22.57	22.36	22.31		
10	16QAM	1	49	22.35	22.27	22.29	22.54		
10	16QAM	25	0	21.23	21.65	21.58	21.45	22.5	2
10	16QAM	25	12	21.49	21.53	21.46	21.27		
10	16QAM	25	25	21.29	21.54	21.26	21.51		
10	16QAM	50	0	21.28	21.59	21.40	21.39		
10	64QAM	1	0	21.46	21.34	21.40	21.37	22.5	2
10	64QAM	1	25	21.36	21.46	21.24	21.49		
10	64QAM	1	49	21.27	21.17	21.38	21.51		
10	64QAM	25	0	20.29	20.71	20.45	20.41	21.5	3
10	64QAM	25	12	20.57	20.60	20.51	20.37		
10	64QAM	25	25	20.46	20.56	20.46	20.42		
10	64QAM	50	0	20.21	20.48	20.20	20.25		
Channel				55265	55810	56170	56715	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	23.24	23.52	23.42	23.32	24.5	0
5	QPSK	1	12	23.33	23.35	23.30	23.38		
5	QPSK	1	24	23.31	23.39	23.29	23.35		
5	QPSK	12	0	22.34	22.58	22.51	22.40	23.5	1
5	QPSK	12	7	22.46	22.39	22.46	22.48		
5	QPSK	12	13	22.26	22.49	22.34	22.52		
5	QPSK	25	0	22.33	22.49	22.31	22.22		
5	16QAM	1	0	22.31	22.45	22.31	22.48	23.5	1
5	16QAM	1	12	22.37	22.49	22.34	22.26		
5	16QAM	1	24	22.38	22.26	22.37	22.47		
5	16QAM	12	0	21.31	21.66	21.61	21.39	22.5	2
5	16QAM	12	7	21.61	21.62	21.52	21.36		
5	16QAM	12	13	21.24	21.53	21.22	21.53		
5	16QAM	25	0	21.16	21.48	21.38	21.34		
5	64QAM	1	0	21.44	21.38	21.37	21.35	22.5	2
5	64QAM	1	12	21.43	21.44	21.27	21.47		
5	64QAM	1	24	21.32	21.26	21.40	21.63		
5	64QAM	12	0	20.32	20.65	20.55	20.42	21.5	3
5	64QAM	12	7	20.61	20.60	20.54	20.37		
5	64QAM	12	13	20.57	20.60	20.45	20.39		
5	64QAM	25	0	20.16	20.48	20.29	20.20		



Reduced Power Mode for DSI 3

Ant0

Band 38								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				37850	38000	38150	13.7	0
Frequency (MHz)				2580	2595	2610		
20	QPSK	1	0	12.58	12.86	12.65		
20	QPSK	1	49	12.68	12.77	12.72	13.7	0
20	QPSK	1	99	12.64	12.73	12.64		
20	QPSK	50	0	12.67	12.77	12.70		
20	QPSK	50	24	12.44	12.58	12.73	13.7	0
20	QPSK	50	50	12.45	12.60	12.63		
20	QPSK	100	0	12.54	12.75	12.72		
20	16QAM	1	0	12.48	12.57	12.57	13.7	0
20	16QAM	1	49	12.56	12.66	12.54		
20	16QAM	1	99	12.49	12.68	12.55		
20	16QAM	50	0	12.58	12.54	12.62	13.7	0
20	16QAM	50	24	12.71	12.58	12.71		
20	16QAM	50	50	12.60	12.66	12.42		
20	16QAM	100	0	12.66	12.61	12.69	13.7	0
20	64QAM	1	0	12.67	12.64	12.65		
20	64QAM	1	49	12.65	12.59	12.65		
20	64QAM	1	99	12.55	12.71	12.57	13.7	0
20	64QAM	50	0	12.61	12.68	12.61		
20	64QAM	50	24	12.64	12.52	12.50		
20	64QAM	50	50	12.71	12.69	12.67	13.7	0
20	64QAM	100	0	12.59	12.62	12.48		
Channel				37825	38000	38175		
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	12.43	12.80	12.55		
15	QPSK	1	37	12.53	12.60	12.68	13.7	0
15	QPSK	1	74	12.50	12.59	12.55		
15	QPSK	36	0	12.54	12.69	12.58		
15	QPSK	36	20	12.30	12.43	12.63	13.7	0
15	QPSK	36	39	12.33	12.48	12.45		
15	QPSK	75	0	12.46	12.67	12.55		
15	16QAM	1	0	12.37	12.53	12.41	13.7	0
15	16QAM	1	37	12.53	12.50	12.43		
15	16QAM	1	74	12.43	12.61	12.53		
15	16QAM	36	0	12.54	12.40	12.59	13.7	0
15	16QAM	36	20	12.62	12.47	12.66		
15	16QAM	36	39	12.42	12.55	12.33		
15	16QAM	75	0	12.59	12.52	12.53	13.7	0
15	64QAM	1	0	12.56	12.52	12.49		
15	64QAM	1	37	12.48	12.42	12.58		
15	64QAM	1	74	12.43	12.62	12.49	13.7	0
15	64QAM	36	0	12.58	12.64	12.51		
15	64QAM	36	20	12.59	12.39	12.33		
15	64QAM	36	39	12.68	12.57	12.56	13.7	0
15	64QAM	75	0	12.45	12.45	12.36		
Channel				37800	38000	38200		
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	12.52	12.74	12.54		
10	QPSK	1	25	12.64	12.61	12.59	13.7	0
10	QPSK	1	49	12.52	12.70	12.61		



10	QPSK	25	0	12.51	12.75	12.59	13.7	0
10	QPSK	25	12	12.27	12.46	12.67		
10	QPSK	25	25	12.40	12.56	12.56		
10	QPSK	50	0	12.37	12.62	12.64		
10	16QAM	1	0	12.36	12.49	12.54	13.7	0
10	16QAM	1	25	12.46	12.53	12.50		
10	16QAM	1	49	12.36	12.58	12.39		
10	16QAM	25	0	12.43	12.43	12.53	13.7	0
10	16QAM	25	12	12.60	12.45	12.58		
10	16QAM	25	25	12.53	12.60	12.32		
10	16QAM	50	0	12.58	12.54	12.66		
10	64QAM	1	0	12.55	12.46	12.57	13.7	0
10	64QAM	1	25	12.49	12.42	12.58		
10	64QAM	1	49	12.46	12.58	12.51		
10	64QAM	25	0	12.56	12.66	12.58	13.7	0
10	64QAM	25	12	12.55	12.34	12.34		
10	64QAM	25	25	12.53	12.56	12.58		
10	64QAM	50	0	12.50	12.60	12.39		
Channel				37775	38000	38225	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	12.49	12.70	12.58	13.7	0
5	QPSK	1	12	12.51	12.62	12.58		
5	QPSK	1	24	12.51	12.59	12.60		
5	QPSK	12	0	12.65	12.65	12.54	13.7	0
5	QPSK	12	7	12.29	12.48	12.70		
5	QPSK	12	13	12.42	12.53	12.56		
5	QPSK	25	0	12.50	12.70	12.65		
5	16QAM	1	0	12.46	12.39	12.54	13.7	0
5	16QAM	1	12	12.48	12.59	12.40		
5	16QAM	1	24	12.47	12.59	12.40		
5	16QAM	12	0	12.44	12.40	12.52	13.7	0
5	16QAM	12	7	12.63	12.49	12.63		
5	16QAM	12	13	12.45	12.63	12.34		
5	16QAM	25	0	12.57	12.52	12.55		
5	64QAM	1	0	12.50	12.54	12.62	13.7	0
5	64QAM	1	12	12.52	12.45	12.62		
5	64QAM	1	24	12.50	12.53	12.54		
5	64QAM	12	0	12.49	12.63	12.47	13.7	0
5	64QAM	12	7	12.53	12.45	12.46		
5	64QAM	12	13	12.62	12.63	12.50		
5	64QAM	25	0	12.48	12.48	12.37		



Ant2

Band 41												
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)	MPR (dB)		
Channel				39750	40185	40620	41055	41490	19.8	0		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680				
20	QPSK	1	0	18.59	18.58	18.75	18.57	18.51				
20	QPSK	1	49	18.60	18.53	18.74	18.69	18.66	19.8	0		
20	QPSK	1	99	18.61	18.55	18.59	18.52	18.51				
20	QPSK	50	0	18.55	18.58	18.72	18.68	18.66				
20	QPSK	50	24	18.48	18.43	18.57	18.60	18.58	19.8	0		
20	QPSK	50	50	18.44	18.42	18.55	18.52	18.56				
20	QPSK	100	0	18.46	18.46	18.68	18.50	18.52				
20	16QAM	1	0	18.45	18.42	18.45	18.39	18.44	19.8	0		
20	16QAM	1	49	18.52	18.51	18.57	18.54	18.54				
20	16QAM	1	99	18.38	18.45	18.59	18.41	18.52				
20	16QAM	50	0	18.45	18.42	18.48	18.46	18.55	19.8	0		
20	16QAM	50	24	18.66	18.61	18.47	18.62	18.51				
20	16QAM	50	50	18.55	18.47	18.49	18.30	18.34				
20	16QAM	100	0	18.53	18.52	18.59	18.60	18.67	19.8	0		
20	64QAM	1	0	18.63	18.49	18.61	18.45	18.52				
20	64QAM	1	49	18.62	18.52	18.36	18.53	18.51				
20	64QAM	1	99	18.40	18.41	18.51	18.34	18.43	19.8	0		
20	64QAM	50	0	18.53	18.52	18.56	18.37	18.42				
20	64QAM	50	24	18.53	18.48	18.34	18.45	18.43				
20	64QAM	50	50	18.53	18.65	18.53	18.49	18.47	19.8	0		
20	64QAM	100	0	18.41	18.54	18.52	18.46	18.43				
Channel				39725	40173	40620	41068	41515			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	19.80	0		
15	QPSK	1	0	18.55	18.55	18.72	18.53	18.43				
15	QPSK	1	37	18.55	18.45	18.60	18.53	18.51				
15	QPSK	1	74	18.51	18.38	18.48	18.38	18.47	19.8	0		
15	QPSK	36	0	18.46	18.49	18.66	18.54	18.57				
15	QPSK	36	20	18.33	18.26	18.47	18.49	18.51				
15	QPSK	36	39	18.32	18.31	18.45	18.48	18.40	19.8	0		
15	QPSK	75	0	18.43	18.33	18.55	18.35	18.50				
15	16QAM	1	0	18.41	18.25	18.30	18.29	18.35				
15	16QAM	1	37	18.40	18.49	18.45	18.43	18.43	19.8	0		
15	16QAM	1	74	18.32	18.27	18.56	18.33	18.37				
15	16QAM	36	0	18.29	18.36	18.35	18.35	18.38				
15	16QAM	36	20	18.58	18.51	18.39	18.44	18.40	19.8	0		
15	16QAM	36	39	18.48	18.39	18.38	18.16	18.24				
15	16QAM	75	0	18.42	18.43	18.41	18.48	18.53				
15	64QAM	1	0	18.46	18.33	18.56	18.30	18.49	19.8	0		
15	64QAM	1	37	18.59	18.49	18.24	18.40	18.48				
15	64QAM	1	74	18.33	18.30	18.36	18.30	18.27				
15	64QAM	36	0	18.44	18.38	18.48	18.20	18.28	19.8	0		
15	64QAM	36	20	18.39	18.44	18.32	18.33	18.39				
15	64QAM	36	39	18.38	18.57	18.42	18.32	18.34				
15	64QAM	75	0	18.30	18.52	18.43	18.32	18.29	19.80	0		
Channel				39700	40160	40620	41080	41540			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685				
10	QPSK	1	0	18.56	18.45	18.69	18.53	18.45	19.80	0		
10	QPSK	1	25	18.49	18.39	18.68	18.63	18.52				
10	QPSK	1	49	18.45	18.52	18.46	18.49	18.38				



10	QPSK	25	0	18.45	18.48	18.60	18.58	18.54	19.8	0
10	QPSK	25	12	18.37	18.28	18.39	18.52	18.41		
10	QPSK	25	25	18.38	18.32	18.45	18.38	18.44		
10	QPSK	50	0	18.35	18.43	18.61	18.33	18.46		
10	16QAM	1	0	18.32	18.34	18.38	18.34	18.38	19.8	0
10	16QAM	1	25	18.49	18.39	18.44	18.51	18.36		
10	16QAM	1	49	18.27	18.38	18.49	18.28	18.45		
10	16QAM	25	0	18.38	18.33	18.38	18.31	18.48	19.8	0
10	16QAM	25	12	18.57	18.48	18.37	18.53	18.39		
10	16QAM	25	25	18.46	18.32	18.33	18.20	18.32		
10	16QAM	50	0	18.39	18.50	18.53	18.49	18.63		
10	64QAM	1	0	18.59	18.37	18.43	18.35	18.42	19.8	0
10	64QAM	1	25	18.55	18.41	18.19	18.45	18.47		
10	64QAM	1	49	18.36	18.25	18.48	18.26	18.40		
10	64QAM	25	0	18.40	18.44	18.45	18.34	18.38	19.8	0
10	64QAM	25	12	18.48	18.31	18.20	18.33	18.40		
10	64QAM	25	25	18.41	18.57	18.49	18.32	18.32		
10	64QAM	50	0	18.24	18.51	18.40	18.40	18.35		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	18.41	18.53	18.62	18.45	18.37	19.80	0
5	QPSK	1	12	18.45	18.50	18.63	18.56	18.59		
5	QPSK	1	24	18.51	18.50	18.57	18.44	18.33		
5	QPSK	12	0	18.38	18.41	18.65	18.54	18.50	19.8	0
5	QPSK	12	7	18.33	18.28	18.47	18.50	18.42		
5	QPSK	12	13	18.30	18.26	18.46	18.44	18.50		
5	QPSK	25	0	18.33	18.31	18.53	18.36	18.50		
5	16QAM	1	0	18.41	18.27	18.38	18.26	18.33	19.8	0
5	16QAM	1	12	18.35	18.48	18.52	18.44	18.41		
5	16QAM	1	24	18.25	18.38	18.51	18.35	18.41		
5	16QAM	12	0	18.35	18.33	18.37	18.44	18.47	19.8	0
5	16QAM	12	7	18.53	18.52	18.43	18.44	18.42		
5	16QAM	12	13	18.42	18.39	18.39	18.24	18.21		
5	16QAM	25	0	18.45	18.50	18.50	18.49	18.54		
5	64QAM	1	0	18.47	18.38	18.50	18.37	18.45	19.8	0
5	64QAM	1	12	18.50	18.42	18.24	18.41	18.34		
5	64QAM	1	24	18.31	18.26	18.37	18.23	18.36		
5	64QAM	12	0	18.36	18.37	18.47	18.20	18.34	19.8	0
5	64QAM	12	7	18.45	18.40	18.26	18.30	18.40		
5	64QAM	12	13	18.48	18.58	18.38	18.43	18.43		
5	64QAM	25	0	18.26	18.51	18.50	18.44	18.27		



Ant3

Band 48									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				55340	55830	56150	56640	11.5	0
Frequency (MHz)				3560	3609	3641	3690		
20	QPSK	1	0	10.70	10.79	10.74	10.76	11.5	0
20	QPSK	1	49	10.74	10.76	10.73	10.69		
20	QPSK	1	99	10.46	10.59	10.51	10.55		
20	QPSK	50	0	10.67	10.72	10.68	10.65	11.5	0
20	QPSK	50	24	10.56	10.69	10.62	10.69		
20	QPSK	50	50	10.38	10.50	10.42	10.45		
20	QPSK	100	0	10.57	10.64	10.56	10.54	11.5	0
20	16QAM	1	0	10.52	10.49	10.58	10.65		
20	16QAM	1	49	10.66	10.64	10.67	10.61		
20	16QAM	1	99	10.59	10.58	10.59	10.62	11.5	0
20	16QAM	50	0	10.41	10.40	10.45	10.46		
20	16QAM	50	24	10.43	10.56	10.56	10.52		
20	16QAM	50	50	10.56	10.57	10.54	10.56	11.5	0
20	16QAM	100	0	10.54	10.56	10.45	10.52		
20	64QAM	1	0	10.65	10.71	10.60	10.72		
20	64QAM	1	49	10.37	10.41	10.48	10.41	11.5	0
20	64QAM	1	99	10.54	10.50	10.60	10.60		
20	64QAM	50	0	10.58	10.56	10.50	10.56		
20	64QAM	50	24	10.50	10.46	10.48	10.50	11.5	0
20	64QAM	50	50	10.46	10.53	10.46	10.54		
20	64QAM	100	0	10.57	10.62	10.62	10.60		
Channel				55315	55820	56160	56665	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				3557.5	3608	3642	3692.5	11.5	0
15	QPSK	1	0	10.65	10.73	10.68	10.60		
15	QPSK	1	37	10.59	10.62	10.69	10.58	11.5	0
15	QPSK	1	74	10.42	10.46	10.44	10.46		
15	QPSK	36	0	10.65	10.65	10.51	10.49		
15	QPSK	36	20	10.38	10.60	10.48	10.60	11.5	0
15	QPSK	36	39	10.20	10.33	10.29	10.32		
15	QPSK	75	0	10.43	10.53	10.51	10.47		
15	16QAM	1	0	10.41	10.32	10.49	10.55	11.5	0
15	16QAM	1	37	10.51	10.56	10.57	10.59		
15	16QAM	1	74	10.48	10.45	10.48	10.59		
15	16QAM	36	0	10.24	10.28	10.33	10.34	11.5	0
15	16QAM	36	20	10.39	10.39	10.43	10.41		
15	16QAM	36	39	10.39	10.51	10.37	10.39		
15	16QAM	75	0	10.39	10.44	10.34	10.46	11.5	0
15	64QAM	1	0	10.58	10.62	10.51	10.57		
15	64QAM	1	37	10.30	10.27	10.33	10.27		
15	64QAM	1	74	10.47	10.47	10.44	10.50	11.5	0
15	64QAM	36	0	10.42	10.42	10.48	10.39		
15	64QAM	36	20	10.40	10.32	10.39	10.34		
15	64QAM	36	39	10.43	10.37	10.32	10.49	11.5	0
15	64QAM	75	0	10.49	10.59	10.57	10.56		
Channel				55290	55815	56165	56690		
Frequency (MHz)				3555	3607.5	3642.5	3695	11.5	0
10	QPSK	1	0	10.61	10.64	10.64	10.59		
10	QPSK	1	25	10.64	10.62	10.67	10.53	11.5	0
10	QPSK	1	49	10.33	10.54	10.45	10.46		
10	QPSK	25	0	10.63	10.59	10.58	10.59		



10	QPSK	25	12	10.38	10.67	10.59	10.66		
10	QPSK	25	25	10.22	10.38	10.25	10.28		
10	QPSK	50	0	10.40	10.54	10.48	10.45		
10	16QAM	1	0	10.47	10.34	10.48	10.63	11.5	0
10	16QAM	1	25	10.55	10.59	10.59	10.54		
10	16QAM	1	49	10.47	10.53	10.45	10.53		
10	16QAM	25	0	10.34	10.28	10.38	10.36	11.5	0
10	16QAM	25	12	10.26	10.47	10.48	10.40		
10	16QAM	25	25	10.48	10.42	10.38	10.50		
10	16QAM	50	0	10.39	10.45	10.42	10.41		
10	64QAM	1	0	10.51	10.56	10.43	10.61	11.5	0
10	64QAM	1	25	10.32	10.23	10.44	10.29		
10	64QAM	1	49	10.39	10.44	10.56	10.49		
10	64QAM	25	0	10.47	10.46	10.45	10.42	11.5	0
10	64QAM	25	12	10.40	10.38	10.41	10.33		
10	64QAM	25	25	10.42	10.43	10.35	10.47		
10	64QAM	50	0	10.49	10.57	10.59	10.52		
Channel				55265	55810	56170	56715		
Frequency (MHz)				3552.5	3607	3643	3697.5		
5	QPSK	1	0	10.64	10.70	10.69	10.54	11.5	0
5	QPSK	1	12	10.64	10.69	10.66	10.59		
5	QPSK	1	24	10.30	10.56	10.37	10.42		
5	QPSK	12	0	10.54	10.57	10.65	10.50	11.5	0
5	QPSK	12	7	10.52	10.55	10.47	10.64		
5	QPSK	12	13	10.24	10.33	10.28	10.33		
5	QPSK	25	0	10.51	10.61	10.49	10.46		
5	16QAM	1	0	10.43	10.33	10.42	10.55		
5	16QAM	1	12	10.60	10.55	10.62	10.49	11.5	0
5	16QAM	1	24	10.56	10.45	10.44	10.56		
5	16QAM	12	0	10.39	10.26	10.36	10.28	11.5	0
5	16QAM	12	7	10.37	10.45	10.47	10.49		
5	16QAM	12	13	10.52	10.50	10.49	10.53		
5	16QAM	25	0	10.51	10.45	10.31	10.47		
5	64QAM	1	0	10.55	10.54	10.55	10.56		
5	64QAM	1	12	10.34	10.24	10.46	10.38	11.5	0
5	64QAM	1	24	10.45	10.33	10.44	10.52		
5	64QAM	12	0	10.53	10.46	10.42	10.52		
5	64QAM	12	7	10.44	10.44	10.35	10.33	11.5	0
5	64QAM	12	13	10.40	10.41	10.39	10.46		
5	64QAM	25	0	10.52	10.56	10.48	10.45		
5	64QAM	25	0	10.52	10.56	10.48	10.45		



<LTE Carrier Aggregation>

General Note:

1. This device supports Carrier Aggregation on downlink for inter and intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.
2. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need combination, and for this device that all the configurations were choose to power measurement.
3. The gray color table is covered by other combinations and no need to verify power.
4. All permutations exist. No restrictions on Pcell & Scell combinations.

2CC Downlink Carrier Aggregation		3CC Downlink Carrier Aggregation			
Number	Combination	Number	Combination	Number	Combination
1	CA_2C	1	CA_2A-2A-4A	54	CA_5A-48A-66A
2	CA_5B	2	CA_2A-2A-5A	55	CA_5A-7A-66A
3	CA_12B	3	CA_2A-2A-7A	56	CA_66A-66A-66A
4	CA_38C	4	CA_2A-2A-12A	57	CA_7A-7A-13A
5	CA_41C	5	CA_2A-2A-13A	58	CA_7A-7A-66A
6	CA_48B	6	CA_2A-2A-14A	59	CA_66A-66B
7	CA_48C	7	CA_2A-2A-66A	60	CA_66A-66C
8	CA_66B	8	CA_2A-2A-71A	61	CA_2A-5B
9	CA_66C	9	CA_2A-4A-4A	62	CA_2A-12B
10	CA_2A-2A	10	CA_2A-7A-7A	63	CA_2A-48C
11	CA_4A-4A	11	CA_2A-12A-12A	64	CA_2A-7C
12	CA_5A-5A	12	CA_2A-48A-48A	65	CA_2A-66B
13	CA_12A-12A	13	CA_2A-66A-66A	66	CA_2A-66C
14	CA_25A-25A	14	CA_4A-4A-5A	67	CA_2C-12A
15	CA_48A-48A	15	CA_4A-4A-7A	68	CA_2C-5A
16	CA_66A-66A	16	CA_4A-4A-12A	69	CA_2C-66A
17	CA_2A-4A	17	CA_4A-4A-13A	70	CA_4A-5B
18	CA_2A-5A	18	CA_4A-4A-71A	71	CA_4A-7C
19	CA_2A-7A	19	CA_4A-7A-7A	72	CA_4A-12B
20	CA_2A-12A	20	CA_4A-12A-12A	73	CA_4A-48C
21	CA_2A-13A	21	CA_5A-5A-66A	74	CA_5A-7C
22	CA_2A-14A	22	CA_5A-7A-7A	75	CA_48D
23	CA_2A-17A	23	CA_5A-66A-66A	76	CA_66D
24	CA_2A-48A	24	CA_7A-7A-26A	77	CA_5A-12B
25	CA_2A-66A	25	CA_7A-66A-66A	78	CA_5A-66B
26	CA_4A-5A	26	CA_12A-66A-66A	79	CA_5A-66C
27	CA_4A-7A	27	CA_13A-48A-48A	80	CA_5B-66B
28	CA_4A-12A	28	CA_13A-66A-66A	81	CA_5B-66C
29	CA_4A-13A	29	CA_14A-66A-66A	82	CA_7A-12B
30	CA_4A-71A	30	CA_25A-25A-26A	83	CA_7A-12A-66A
31	CA_5A-7A	31	CA_48A-48A-66A	84	CA_13A-48A-66A
32	CA_5A-12A	32	CA_48A-48A-71A	85	CA_25A-25A-25A
33	CA_5A-13A	33	CA_48A-66A-66A	86	CA_2A-5A-48A
34	CA_5A-25A	34	CA_66A-66A-71A	87	CA_2A-5A-7A
35	CA_5A-38A	35	CA_2A-4A-5A	88	CA_7C-13A
36	CA_5A-48A	36	CA_2A-4A-7A	89	CA_7C-66A
37	CA_5A-66A	37	CA_2A-4A-12A	90	CA_12A-66C
38	CA_5B-66A	38	CA_2A-4A-13A	91	CA_12B-66A
39	CA_7A-12A	39	CA_2A-4A-71A	92	CA_13A-48C
40	CA_7A-26A	40	CA_2A-5A-12A	93	CA_13A-66B
41	CA_7A-66A	41	CA_2A-5A-66A	94	CA_13A-66C
42	CA_12A-25A	42	CA_2A-7A-12A	95	CA_48A-48C
43	CA_12A-66A	43	CA_2A-7A-13A	96	CA_25A-41C
44	CA_13A-48A	44	CA_2A-7A-66A	97	CA_48A-66B
45	CA_13A-66A	45	CA_2A-12A-66A	98	CA_48A-66C
46	CA_14A-66A	46	CA_2A-13A-48A	99	CA_48C-66A
47	CA_25A-26A	47	CA_2A-13A-66A	100	CA_48C-71A



48	CA_25A-41A	48	CA_2A-14A-66A	101	CA_66C-71A
49	CA_48A-66A	49	CA_2A-48A-66A	102	CA_5A-48C
50	CA_48A-71A	50	CA_2A-66A-71A		
51	CA_66A-71A	51	CA_4A-5A-12A		
52	CA_4A-48A	52	CA_4A-7A-12A		
53	CA_7A-13A	53	CA_5A-12A-66A		

4CC Downlink Carrier Aggregation			
Number	Combination	Number	Combination
1	CA_2A-2A-4A-4A	48	CA_4A-4A-5B
2	CA_2A-2A-12A-12A	49	CA_4A-4A-12B
3	CA_2A-2A-66A-66A	50	CA_5A-5A-66B
4	CA_2A-66A-66A-66A	51	CA_5A-5A-66C
5	CA_4A-4A-12A-12A	52	CA_5A-66A-66C
6	CA_5A-5A-66A-66A	53	CA_5A-66A-66B
7	CA_48A-48A-66A-66A	54	CA_5B-66A-66A
8	CA_2A-2A-4A-5A	55	CA_7C-66A-66A
9	CA_2A-2A-4A-12A	56	CA_13A-48A-48C
10	CA_2A-2A-5A-12A	57	CA_13A-66A-66B
11	CA_2A-2A-5A-66A	58	CA_13A-66A-66C
12	CA_2A-2A-7A-12A	59	CA_48A-48A-66B
13	CA_2A-2A-7A-66A	60	CA_48A-48A-66C
14	CA_2A-2A-12A-66A	61	CA_48A-48C-66A
15	CA_2A-2A-13A-66A	62	CA_2A-4A-5B
16	CA_2A-2A-14A-66A	63	CA_2A-4A-7C
17	CA_2A-4A-4A-5A	64	CA_2A-4A-12B
18	CA_2A-4A-4A-12A	65	CA_2A-5A-12B
19	CA_2A-4A-7A-7A	66	CA_2A-5A-66B
20	CA_2A-5A-66A-66A	67	CA_2A-5A-66C
21	CA_2A-12A-66A-66A	68	CA_2A-5B-66A
22	CA_2A-13A-66A-66A	69	CA_2A-7A-12B
23	CA_2A-14A-66A-66A	70	CA_2A-12B-66A
24	CA_4A-4A-5A-12A	71	CA_2A-12A-66C
25	CA_14A-66A-66A-66A	72	CA_2A-13A-66B
26	CA_2A-48A-66A-66A	73	CA_2A-13A-66C
27	CA_2A-7A-66A-66A	74	CA_4A-5A-12B
28	CA_2A-7A-7A-13A	75	CA_7A-12B-66A
29	CA_2A-7A-7A-66A	76	CA_13A-48C-66A
30	CA_5A-7A-66A-66A	77	CA_13A-48A-66B
31	CA_7A-7A-66A-66A	78	CA_13A-48A-66C
32	CA_48C-48C	79	CA_2A-13A-48C
33	CA_48A-48D	80	CA_2A-2A-5B
34	CA_2A-48D	81	CA_2A-48C-66A
35	CA_2A-66D	82	CA_2A-5A-48C
36	CA_5A-66D	83	CA_2A-7C-13A
37	CA_13A-48D	84	CA_2A-7C-66A
38	CA_13A-66D	85	CA_2C-66A-66A
39	CA_48C-66B	86	CA_48C-66A-66A
40	CA_48C-66C	87	CA_5A-48C-66A
41	CA_5A-48D	88	CA_5A-7C-66A
42	CA_2A-2A-12B		
43	CA_2A-2A-66B		
44	CA_2A-2A-66C		
45	CA_2A-48A-48C		
46	CA_2A-66A-66B		
47	CA_2A-66A-66C		

LTE 4x4 MIMO (Downlink)

This device supports downlink 4x4 MIMO operations for LTE Bands 2/4/7/25/38/41/48/66 only. Uplink transmission is limited to a single output stream. Power measurements were performed with downlink 4x4 MIMO active for the configuration with highest measured maximum conducted power with 4x4 downlink MIMO inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC Guidance, SAR for downlink 4x4 MIMO was not needed since the maximum average output power in 4x4 downlink MIMO mode was not > 0.25 dB higher than the maximum output power with downlink 4x4 MIMO inactive. When carrier aggregation is applicable, power measurements were performed with the downlink carrier aggregation and 4x4 DL MIMO active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

4X4 MIMO	Band
	LTE Band 2/4/7/25/38/41/48/66

LTE Carrier Aggregation Conducted Power (Downlink)

- i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
- ii. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- iii. The device supports downlink four carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- v. For inter-band CA, the SCC selected highest bandwidth and near the middle of its transmission band. For SCC DL RB size and offset will base on the PCC corresponding RB allocation.
- vi. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- vii. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lceil \frac{BW_{\text{Channel}(1)} + BW_{\text{Channel}(2)} - 0.1 |BW_{\text{Channel}(1)} - BW_{\text{Channel}(2)}|}{0.6} \right\rceil 0.3 \text{ [MHz]}$$

<Two Carrier power verification>

CA List	PCC									SCC					Power	
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	RB Offset		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_2C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	23.38	23.57
CA_5B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		24.04	24.21
CA_12B	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		23.94	24.13
CA_38C	Band 38	Ant0	20M	2585.1	37901	QPSK	1	0	4x4MIMO	Band 38	20M	2604.9	38099	4x4MIMO	23.31	23.42
CA_41C	Band 41	Ant2	20M	2593	40620	QPSK	1	0	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.50	23.61
CA_48B	Band 48	Ant3	10M	3607.5	55815	QPSK	1	0	4x4MIMO	Band 48	10M	3617.4	55914	4x4MIMO	23.49	23.62
CA_48C	Band 48	Ant3	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.55	23.62
CA_66B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	24.11	24.23
CA_66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	24.10	24.23
CA_2A-2A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.45	23.57
CA_4A-4A	Band 4	Ant0	20M	2132.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	24.09	24.18
CA_5A-5A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		24.13	24.21
CA_12A-12A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	744.5	5165		23.98	24.13
CA_25A-25A	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 25	5M	1891.7	8457	4x4MIMO	23.82	23.98
CA_48A-48A	Band 48	Ant3	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	23.56	23.62
CA_66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	24.11	24.23
CA_2A-4A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.47	23.57
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.06	24.18
CA_2A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.47	23.57
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	24.12	24.21
CA_2A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.47	23.57
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.28	23.39
CA_2A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.44	23.57
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	23.96	24.13
CA_2A-13A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		23.49	23.57
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	22.87	22.99
CA_2A-14A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		23.50	23.57
	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	24.03	24.15
CA_2A-17A	Band 2	Ant0	10M	1880	18900	QPSK	1	0	4x4MIMO	Band 17	10M	740	5790		23.40	23.57
	Band 17	Ant0	10M	710	23790	QPSK	1	0		Band 2	10M	1960	900	4x4MIMO	23.88	24.06
CA_2A-48A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	23.47	23.57
	Band 66	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.43	23.57
CA_2A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.43	23.57
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.10	24.23
CA_4A-5A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		24.04	24.18
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	24.02	24.21
CA_4A-7A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	24.04	24.18
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.20	23.39
CA_4A-12A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		24.08	24.18
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	23.93	24.13
CA_4A-13A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		24.00	24.18
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	22.82	22.99
CA_4A-71A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		24.03	24.18
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	23.56	23.75
CA_5A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	24.10	24.21
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.20	23.39
CA_5A-12A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 12	10M	737.5	5095		24.05	24.21
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 5	10M	881.5	2525		23.97	24.13
CA_5A-13A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 13	10M	751	5230		24.14	24.21
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 5	10M	881.5	2525		22.79	22.99
CA_5A-25A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 25	20M	1960	8340	4x4MIMO	24.15	24.21



	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		23.79	23.98
CA_5A-38A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 38	20M	2595	38000	4x4MIMO	24.12	24.21
CA_5A-48A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	24.13	24.21
CA_5A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	24.02	24.21
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		24.08	24.23
CA_7A-12A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.22	23.39
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	24.03	24.13
CA_7A-26A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		23.33	23.39
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	23.05	23.23
CA_7A-66A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.31	23.39
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	24.14	24.23
CA_12A-25A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 25	20M	1960	8340	4x4MIMO	24.04	24.13
	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		23.93	23.98
CA_12A-66A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	23.95	24.13
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		24.03	24.23
CA_13A-48A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	22.84	22.99
CA_13A-66A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	22.89	22.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		24.05	24.23
CA_14A-66A	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	24.02	24.15
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		24.11	24.23
CA_25A-26A	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 26	15M	876.5	8865		23.80	23.98
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 25	20M	1960	8340	4x4MIMO	23.18	23.23
CA_25A-41A	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	23.88	23.98
CA_48A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	24.07	24.23
CA_48A-71A	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	23.60	23.75
CA_66A-71A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		24.08	24.23
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	23.62	23.75
CA_4A-48A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	24.02	24.18
CA_7A-13A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		23.33	23.39
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	22.84	22.99



<Three Carrier power verification>

3CA List	PCC									SCC1					SCC2				Power		
	LTE	BW	BW	UL	UL	Mod.	UL#	UL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	LTE	BW	DL	DL	DL Antenna Configuration	With CA	Without CA
	Band	Ant	(MHz)	Freq. (MHz)	Channel		RB	Offset		Band	(MHz)	Freq. (MHz)	Channel		Band	(MHz)	Freq. (MHz)	Channel		Tx. Power (dBm)	Tx. Power (dBm)
CA_48D	Band 48	Ant3	20M	3609	55830	QPSK	1	0	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	Band 48	20M	3648.6	56226	4x4MIMO	23.43	23.62
CA_66D	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2343	39948	4x4MIMO	Band 66	20M	2362.8	40146	4x4MIMO	24.17	24.23
CA_48A-48C	Band 48	Ant3	20M	2675.8	39750	QPSK	1	0	4x4MIMO	Band 41	20M	2660.2	41292	4x4MIMO	Band 41	20M	2680	41490	4x4MIMO	23.56	23.62
CA_66A-66B	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	15	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	24.07	24.23
CA_66A-66C	Band 66	Ant0	20M	1720	132072	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	24.17	24.23
CA_2A-2A-4A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.44	23.57
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.98	24.18
CA_2A-2A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 5	10M	881.5	2525		23.44	23.57
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	24.15	24.21
CA_2A-2A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.38	23.57
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.20	23.39
CA_2A-2A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 12	10M	737.5	5095		23.39	23.57
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	24.04	24.13
CA_2A-2A-13A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 13	10M	751	5230		23.41	23.57
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	22.91	22.99
CA_2A-2A-14A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 14	10M	740	5790		23.42	23.57
	Band 14	Ant0	10M	710	23790	QPSK	1	0		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	24.09	24.15
CA_2A-2A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.39	23.57
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	24.04	24.23
CA_2A-2A-71A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	Band 71	20M	683	68786		23.47	23.57
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 2	20M	1880	900	4x4MIMO	Band 2	5M	1987.5	1175	4x4MIMO	23.68	23.75
CA_2A-4A-4A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	1732.5	20175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.44	23.57
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 2	20M	1880	900	4x4MIMO	24.11	24.18
CA_2A-5B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		23.47	23.57
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 2	20M	1960	900	4x4MIMO	24.06	24.21
CA_2A-7A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	23.45	23.57
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.22	23.39
CA_2A-7C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	23.39	23.57
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.30	23.39
CA_2A-12A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 12	5M	744.5	5165		23.45	23.57
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	744.5	5165		Band 2	20M	1960	900	4x4MIMO	23.97	24.13
CA_2A-12B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 12	5M	743.5	5155		23.40	23.57
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 2	20M	1960	900	4x4MIMO	23.96	24.13
CA_2A-48A-48A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	23.48	23.57
CA_2A-48C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.42	23.57
CA_2A-66A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.41	23.57
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.18	24.23
CA_2A-66B	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	23.44	23.57
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.15	24.23
CA_2A-66C	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.40	23.57
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.11	24.23
CA_2C-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 5	10M	881.5	2525		23.40	23.57
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	24.06	24.21
CA_2C-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 12	10M	737.5	5095		23.41	23.57
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	24.03	24.13
CA_2C-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.38	23.57
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 2	20M	1979.8	1098	4x4MIMO	24.16	24.23
CA_4A-4A-5A	Band 4	Ant0	20M	2132.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 5	10M	881.5	2525		24.02	24.18
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	24.06	24.21
CA_4A-4A-7A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	24.01	24.18



	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.27	23.39
CA_4A-4A-12A	Band 4	Ant0	20M	2132.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 12	10M	737.5	5095		24.11	24.18
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.95	24.13
CA_4A-4A-13A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 13	10M	751	5230		24.04	24.18
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	22.84	22.99
CA_4A-4A-71A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	Band 71	20M	683	68786		24.04	24.18
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 4	5M	2152.5	2375	4x4MIMO	23.61	23.75
CA_4A-5B	Band 4	Ant0	20M	2132.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		24.06	24.18
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 4	20M	2132.5	2175	4x4MIMO	24.15	24.21
CA_4A-7A-7A	Band 4	Ant0	20M	2132.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	24.02	24.18
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.22	23.39
CA_4A-7C	Band 4	Ant0	20M	2132.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	24.06	24.18
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.33	23.39
CA_4A-12A-12A	Band 4	Ant0	20M	2132.5	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 12	5M	744.5	5165		24.11	24.18
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	744.5	5165		Band 4	20M	2132.5	2175	4x4MIMO	24.06	24.13
CA_4A-12B	Band 4	Ant0	20M	2132.5	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 12	5M	743.5	5155		24.01	24.18
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 4	20M	2132.5	2175	4x4MIMO	24.05	24.13
CA_4A-48C	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	24.04	24.18
CA_5A-5A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	891.5	2625		Band 66	20M	2155	66886	4x4MIMO	24.03	24.21
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	891.5	2625		24.18	24.23
CA_5A-7A-7A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2680	3350	4x4MIMO	24.15	24.21
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2680	3350	4x4MIMO	Band 5	10M	881.5	2525		23.23	23.39
CA_5A-7C	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	24.08	24.21
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 5	10M	881.5	2525		23.34	23.39
CA_5A-12B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 12	10M	737.5	5095		Band 12	5M	743.5	5155		24.12	24.21
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 5	10M	881.5	2525		24.06	24.13
CA_5A-66A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	24.12	24.21
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 5	10M	881.5	2525		24.10	24.23
CA_5A-66B	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	24.06	24.21
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 5	10M	881.5	2525		24.17	24.23
CA_5A-66C	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	24.14	24.21
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 5	10M	881.5	2525		24.11	24.23
CA_5B-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 5	5M	888.7	2597		Band 66	20M	2155	66886	4x4MIMO	24.09	24.21
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 5	5M	888.7	2597		24.05	24.23
CA_7A-7A-26A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2680	3350	4x4MIMO	Band 26	15M	876.5	8865		23.28	23.39
	Band 26	Ant0	15M	831.5	26865	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2680	3350	4x4MIMO	23.07	23.23
CA_7A-12B	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 12	5M	743.5	5155		23.23	23.39
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 7	20M	2655	3100	4x4MIMO	24.03	24.13
CA_7A-66A-66A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.20	23.39
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	24.15	24.23
CA_7C-13A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 13	10M	751	5230		23.29	23.39
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	22.82	22.99
CA_7C-66A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.25	23.39
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	20M	2554.8	3298	4x4MIMO	24.12	24.23
CA_12A-66A-66A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.94	24.13
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 12	10M	737.5	5095		24.06	24.23
CA_12A-66C	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	24.07	24.13
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 12	10M	737.5	5095		24.17	24.23
CA_12B-66A	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 12	5M	743.5	5155		Band 66	20M	2155	66886	4x4MIMO	23.96	24.13
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 12	5M	743.5	5155		24.07	24.23
CA_13A-48A-48A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	22.87	22.99
CA_13A-48C	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	22.89	22.99
CA_13A-66A-66A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	22.85	22.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 13	10M	751	5230		24.11	24.23
CA_13A-66B	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	15M	2155	66886	4x4MIMO	Band 66	5M	2164.3	66979	4x4MIMO	22.81	22.99
	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 13	10M	751	5230		24.09	24.23



CA_13A-66C	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	22.93	22.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 13	10M	751	5230		24.07	24.23
CA_14A-66A-66A	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	24.05	24.15
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 14	10M	763	5330		24.06	24.23
CA_25A-25A-26A	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 25	20M	1985	8590	4x4MIMO	Band 26	5M	876.5	8865		23.92	23.98
	Band 26	Ant0	5M	831.5	26865	QPSK	1	0		Band 25	20M	1960	8340	4x4MIMO	Band 25	20M	1985	8590	4x4MIMO	23.09	23.23
CA_25A-41C	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 41	20M	2593	40620	4x4MIMO	Band 41	20M	2612.8	40818	4x4MIMO	23.92	23.98
CA_48A-48A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	24.10	24.23
CA_48A-48A-71A	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	5M	3697.5	56715	4x4MIMO	23.69	23.75
CA_48A-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	24.04	24.23
CA_48A-66B	Band 66	Ant0	15M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2154.3	66879	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	24.13	24.23
CA_48A-66C	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	24.14	24.23
CA_48C-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	24.14	24.23
CA_48C-71A	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	23.69	23.75
CA_66A-66A-71A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 71	20M	683	68786		24.06	24.23
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	23.60	23.75
CA_66C-71A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	Band 71	20M	683	68786		24.11	24.23
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 66	20M	2174.8	67084	4x4MIMO	23.57	23.75
CA_2A-4A-5A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		23.37	23.57
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 2	20M	1960	900	4x4MIMO	24.06	24.18
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	24.03	24.21
	Band 5	Ant2	10M	836.5	20525	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	24.07	24.27
CA_2A-4A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.46	23.57
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.99	24.18
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.31	23.39
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.04	23.22
CA_2A-4A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 12	10M	737.5	5095		23.44	23.57
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 2	20M	1960	900	4x4MIMO	24.06	24.18
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.95	24.13
CA_2A-4A-13A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 13	10M	751	5230		23.51	23.57
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 2	20M	1960	900	4x4MIMO	23.99	24.18
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	22.87	22.99
CA_2A-4A-71A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	Band 71	20M	683	68786		23.49	23.57
	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1960	900	4x4MIMO	23.98	24.18
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 4	20M	2132.5	2175	4x4MIMO	23.61	23.75
CA_2A-5A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 12	10M	737.5	5095		23.37	23.57
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 12	10M	737.5	5095		Band 2	20M	1960	900	4x4MIMO	24.07	24.21
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.93	24.13
	Band 5	Ant2	10M	836.5	20525	QPSK	1	0		Band 12	10M	737.5	5095		Band 2	20M	1960	900	4x4MIMO	24.21	24.27
CA_2A-5A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	23.49	23.57
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.09	24.21
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		24.15	24.23
	Band 5	Ant2	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.20	24.27
CA_2A-7A-12A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 7	20M	2655	3100	4x4MIMO	23.45	23.57
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		23.33	23.39
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.97	24.13
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		23.11	23.22
CA_2A-7A-13A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 7	20M	2655	3100	4x4MIMO	23.50	23.57
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.29	23.39
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.82	22.99
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.15	23.22
CA_2A-7A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.49	23.57
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.21	23.39
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.06	24.23
	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.03	23.22



	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	23.33	23.44
CA_2A-12A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	23.52	23.57
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.01	24.13
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		24.06	24.23
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 12	10M	737.5	5095		23.36	23.44
CA_2A-13A-48A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 48	20M	3609	55830	4x4MIMO	23.50	23.57
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.87	22.99
CA_2A-13A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 13	10M	751	5230		Band 66	20M	2155	66886	4x4MIMO	23.40	23.57
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	22.84	22.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		24.16	24.23
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 13	10M	751	5230		23.30	23.44
CA_2A-14A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 14	10M	763	5330		Band 66	20M	2155	66886	4x4MIMO	23.51	23.57
	Band 14	Ant0	10M	793	23330	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.07	24.15
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		24.09	24.23
	Band 66	Ant2	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 14	10M	763	5330		23.25	23.44
CA_2A-48A-66A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.46	23.57
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 48	20M	3609	55830	4x4MIMO	24.07	24.23
CA_2A-66A-71A	Band 2	Ant2	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	Band 71	20M	683	68786		24.20	24.32
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 71	20M	683	68786		Band 2	20M	1960	900	4x4MIMO	24.16	24.23
	Band 71	Ant0	20M	683	133322	QPSK	1	0		Band 2	20M	1960	900	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.61	23.75
CA_4A-5A-12A	Band 4	Ant0	20M	2132.5	20175	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 12	10M	737.5	5095		24.12	24.18
	Band 5	Ant2	10M	836.5	20525	QPSK	1	0		Band 12	10M	737.5	5095		Band 4	20M	2132.5	2175	4x4MIMO	24.19	24.27
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 5	10M	881.5	2525		23.99	24.13
CA_4A-7A-12A	Band 4	Ant0	20M	1732.5	20175	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 12	10M	737.5	5095		23.98	24.18
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 4	20M	2132.5	2175	4x4MIMO	23.23	23.39
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 4	20M	2132.5	2175	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	23.96	24.13
CA_5A-12A-66A	Band 5	Ant2	10M	881.5	2525	QPSK	1	0		Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	24.14	24.27
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	24.08	24.13
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525	4x4MIMO	Band 12	10M	737.5	5095		24.09	24.23
CA_7A-12A-66A	Band 7	Ant2	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 12	10M	737.5	5095		Band 66	20M	2155	66886	4x4MIMO	23.03	23.22
	Band 12	Ant0	10M	707.5	23095	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	24.00	24.13
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 12	10M	737.5	5095		24.03	24.23
CA_13A-48A-66A	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	22.90	22.99
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	24.12	24.23
CA_25A-25A-25A	Band 25	Ant0	20M	1880	26340	QPSK	1	0	4x4MIMO	Band 25	5M	1992.5	8665	4x4MIMO	Band 25	20M	1940	8140	4x4MIMO	23.81	23.98
CA_2A-5A-48A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	V	4x4MIMO	23.40	23.57
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.11	24.21
CA_2A-5A-7A	Band 2	Ant0	20M	1880	18900	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 7	20M	2655	3100	4x4MIMO	23.37	23.57
	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	24.08	24.21
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 2	20M	1960	900	4x4MIMO	Band 5	10M	881.5	2525		23.21	23.39
CA_5A-48A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	24.05	24.21
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 48	20M	3609	55830	4x4MIMO	24.12	24.23
CA_5A-48C	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 48	20M	3609	55830	4x4MIMO	Band 48	20M	3628.8	56028	4x4MIMO	24.02	24.21
CA_5A-7A-66A	Band 5	Ant0	10M	836.5	20525	QPSK	1	0		Band 66	20M	2155	66886	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	24.04	24.21
	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 5	10M	881.5	2525		Band 66	20M	2155	66886	4x4MIMO	23.21	23.39
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 5	10M	881.5	2525		24.15	24.23
CA_66A-66A-66A	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 66	5M	2197.5	67311	4x4MIMO	Band 66	20M	2120	66536	4x4MIMO	24.10	24.23
CA_7A-7A-13A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 13	10M	751	5230		23.28	23.39
	Band 13	Ant0	10M	782	23230	QPSK	1	0		Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	22.92	22.99
CA_7A-7A-66A	Band 7	Ant0	20M	2535	21100	QPSK	1	0	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	Band 66	20M	2155	66886	4x4MIMO	23.27	23.39
	Band 66	Ant0	20M	1745	132322	QPSK	1	0	4x4MIMO	Band 7	20M	2655	3100	4x4MIMO	Band 7	5M	2687.5	3425	4x4MIMO	24.04	24.23