

10729	AAC	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.64	± 9.6 %
10730	AAC	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	± 9.6 %
10731	AAC	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10732	AAC	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	± 9.6 %
10733	AAC	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	± 9.6 %
10734	AAC	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	± 9.6 %
10735	AAC	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	± 9.6 %
10736	AAC	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	8.27	± 9.6 %
10737	AAC	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8.36	± 9.6 %
10738	AAC	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	WLAN	8.42	± 9.6 %
10739	AAC	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8.29	± 9.6 %
10740	AAC	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8.48	± 9.6 %
10741	AAC	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	± 9.6 %
10742	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	± 9.6 %
10743	AAC	IEEE 802.11ax (160MHz, MCS0, 90pc dc)	WLAN	8.94	± 9.6 %
10744	AAC	IEEE 802.11ax (160MHz, MCS1, 90pc dc)	WLAN	9.16	± 9.6 %
10745	AAC	IEEE 802.11ax (160MHz, MCS2, 90pc dc)	WLAN	8.93	± 9.6 %
10746	AAC	IEEE 802.11ax (160MHz, MCS3, 90pc dc)	WLAN	9.11	± 9.6 %
10747	AAC	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WLAN	9.04	± 9.6 %
10748	AAC	IEEE 802.11ax (160MHz, MCS5, 90pc dc)	WLAN	8.93	± 9.6 %
10749	AAC	IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WLAN	8.90	± 9.6 %
10750	AAC	IEEE 802.11ax (160MHz, MCS7, 90pc dc)	WLAN	8.79	± 9.6 %
10751	AAC	IEEE 802.11ax (160MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10752	AAC	IEEE 802.11ax (160MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10753	AAC	IEEE 802.11ax (160MHz, MCS10, 90pc dc)	WLAN	9.00	± 9.6 %
10754	AAC	IEEE 802.11ax (160MHz, MCS11, 90pc dc)	WLAN	8.94	± 9.6 %
10755	AAC	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	± 9.6 %
10756	AAC	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	± 9.6 %
10757	AAC	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.77	± 9.6 %
10758	AAC	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.69	± 9.6 %
10759	AAC	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	± 9.6 %
10760	AAC	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	± 9.6 %
10761	AAC	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	± 9.6 %
10762	AAC	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	± 9.6 %
10763	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.53	± 9.6 %
10764	AAC	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	± 9.6 %
10765	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	± 9.6 %
10766	AAC	IEEE 802.11ax (160MHz, MCS11, 99pc dc)	WLAN	8.51	± 9.6 %
10767	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10775	AAD	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10776	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAD	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10784	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %

10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10823	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.66	± 9.6 %
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %

10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.86	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10897	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAB	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAB	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAB	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %

10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6 %
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	± 9.6 %
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %
10978	AAA	ULLA BDR	ULLA	2.23	± 9.6 %
10979	AAA	ULLA HDR4	ULLA	7.02	± 9.6 %
10980	AAA	ULLA HDR8	ULLA	8.82	± 9.6 %
10981	AAA	ULLA HDRp4	ULLA	1.50	± 9.6 %
10982	AAA	ULLA HDRp8	ULLA	1.44	± 9.6 %
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	± 9.6 %
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	± 9.6 %

10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	± 9.6 %
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	± 9.6 %
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	± 9.6 %
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	± 9.6 %
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	± 9.6 %
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	± 9.6 %

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



Appendix E. Conducted RF Output Power Table

The detailed power table are shown as follows.



Default/Full Power

TAB0									
Band				Band				Tx Power	
Base Average Power (dBm)				Base Average Power (dBm)				Tx Power	
TX Channel	156	166	261	TX Channel	156	166	261	Limit	Limit
Frequency (MHz)	574.2	574.2	574.2	Frequency (MHz)	574.2	574.2	574.2	34.50	35.50
OSM 1 Tx Unit	32.73	33.16	33.02	34.00	33.58	34.16	34.03	35.50	
OPRR 1 Tx Unit	32.27	33.15	33.02	34.00	33.87	34.15	34.02	35.00	
OPRR 2 Tx Unit	29.82	30.11	29.97	31.00	29.82	30.11	29.97	31.00	
OPRR 3 Tx Unit	27.04	28.08	27.63	29.00	26.68	27.62	26.87	24.74	
OPRR 4 Tx Unit	26.55	26.87	26.98	27.00	26.55	26.87	26.98	27.00	
EDGE 1 Tx Unit	27.95	27.20	27.94	28.00	18.30	18.20	18.34	19.00	
EDGE 2 Tx Unit	24.18	24.19	24.19	25.00	18.18	18.19	18.19	18.00	
EDGE 3 Tx Unit	22.12	22.13	22.17	23.00	17.86	17.83	18.01	18.74	
EDGE 4 Tx Unit	20.87	20.85	20.82	22.00	17.87	17.85	17.82	19.00	

TAB1									
Band				Band				Tx Power	
Base Average Power (dBm)				Base Average Power (dBm)				Tx Power	
TX Channel	512	661	816	TX Channel	512	661	816	Limit	Limit
Frequency (MHz)	1660.2	1660	1660.8	Frequency (MHz)	1660.2	1660	1660.8	35.50	35.50
OSM 1 Tx Unit	30.37	30.43	30.51	31.00	21.57	21.43	21.31	22.00	
OPRR 1 Tx Unit	30.32	30.41	30.33	31.00	21.38	21.41	21.38	22.00	
OPRR 2 Tx Unit	27.08	27.24	27.16	28.00	21.06	21.24	21.16	22.00	
OPRR 3 Tx Unit	25.13	25.24	25.16	26.00	20.67	20.96	20.60	21.74	
OPRR 4 Tx Unit	23.51	23.73	23.68	24.00	20.54	20.73	20.58	21.00	
EDGE 1 Tx Unit	26.31	26.41	26.25	27.00	17.81	17.41	17.25	18.00	
EDGE 2 Tx Unit	24.42	24.52	24.33	24.50	17.42	17.52	17.33	18.50	
EDGE 3 Tx Unit	21.31	21.60	21.30	22.50	17.69	17.38	17.04	18.24	
EDGE 4 Tx Unit	19.77	19.83	19.87	21.00	16.77	16.80	16.87	18.00	

TAB0									
Band				Band				Tx Power	
Base Average Power (dBm)				Base Average Power (dBm)				Tx Power	
TX Channel	5582	5600	5598	TX Channel	5582	5600	5598	Limit	Limit
Frequency (MHz)	1802.4	1800	1802.6	Frequency (MHz)	1802.4	1800	1802.6	34.50	35.50
OSM 1 Tx Unit	24.12	24.13	24.13	24.00	22.08	22.08	22.07	24.50	
OSM 1 Tx Unit	24.17	24.16	24.15	25.00	23.02	23.02	23.03	24.50	
OPRR 1 Tx Unit	23.19	23.28	23.27	24.00	21.84	21.84	21.84	23.50	
OPRR 2 Tx Unit	23.71	23.16	23.30	24.00	21.50	21.87	21.91	23.50	
OPRR 3 Tx Unit	22.70	22.72	22.84	23.00	21.35	21.42	21.42	23.00	
OPRR 4 Tx Unit	22.73	22.73	22.74	23.00	21.27	21.39	21.33	23.00	
OPRR 5 Tx Unit	23.71	23.37	23.24	24.00	21.73	21.84	21.82	23.50	
OPRR 6 Tx Unit	23.18	23.08	23.17	24.00	21.80	21.73	21.75	23.00	
OPRR 7 Tx Unit	22.61	22.71	22.62	23.00	21.35	21.31	21.37	23.00	
OPRR 8 Tx Unit	22.68	22.73	22.62	23.00	21.21	21.34	21.25	23.00	
OPRR 9 Tx Unit	21.94	21.63	21.59	23.00	20.95	20.84	20.97	22.50	
OPRR 10 Tx Unit	19.41	19.37	19.30	21.00	18.82	18.85	18.71	20.50	
OPRR 11 Tx Unit	21.70	21.17	21.73	23.00	20.44	20.46	20.47	21.50	
OPRR 12 Tx Unit	20.68	20.59	20.68	21.00	19.89	19.88	19.89	20.50	
OPRR 13 Tx Unit	22.10	22.10	22.10	23.00	20.82	20.87	20.94	22.00	
OPRR 14 Tx Unit	19.87	19.86	19.84	21.00	18.20	18.18	18.14	20.00	

TAB0									
Band				Band				Tx Power	
Base Average Power (dBm)				Base Average Power (dBm)				Tx Power	
TX Channel	4182	4182	4200	TX Channel	4182	4182	4200	Limit	Limit
Frequency (MHz)	806.4	806.4	806.6	Frequency (MHz)	806.4	806.4	806.6	34.50	35.50
OSM 1 Tx Unit	23.53	23.53	24.03	24.00	24.02	24.02	24.04	25.50	
OPRR 1 Tx Unit	22.59	23.12	23.06	24.00	22.76	22.79	22.84	24.50	
OPRR 2 Tx Unit	22.52	22.63	22.61	24.00	22.55	22.56	22.56	24.00	
OPRR 3 Tx Unit	22.57	22.58	22.51	24.00	22.53	22.51	22.51	24.00	
OPRR 4 Tx Unit	22.64	22.62	22.68	24.00	22.65	22.74	22.87	24.50	
OPRR 5 Tx Unit	22.67	22.65	22.61	24.00	22.63	22.76	22.76	24.50	
OPRR 6 Tx Unit	22.43	22.50	22.50	23.00	22.17	22.19	22.20	24.00	
OPRR 7 Tx Unit	22.43	22.41	22.40	23.00	22.15	22.20	22.19	24.00	
OPRR 8 Tx Unit	21.60	21.65	21.61	23.00	21.71	21.73	21.71	23.50	
OPRR 9 Tx Unit	20.95	20.94	20.91	23.00	20.93	20.79	20.85	24.50	
OPRR 10 Tx Unit	21.49	21.51	21.58	22.00	21.83	21.82	21.78	22.50	
OPRR 11 Tx Unit	20.99	20.11	21.06	23.00	21.75	21.84	21.84	23.50	
OPRR 12 Tx Unit	19.89	19.86	19.84	21.00	20.67	20.77	20.76	21.50	

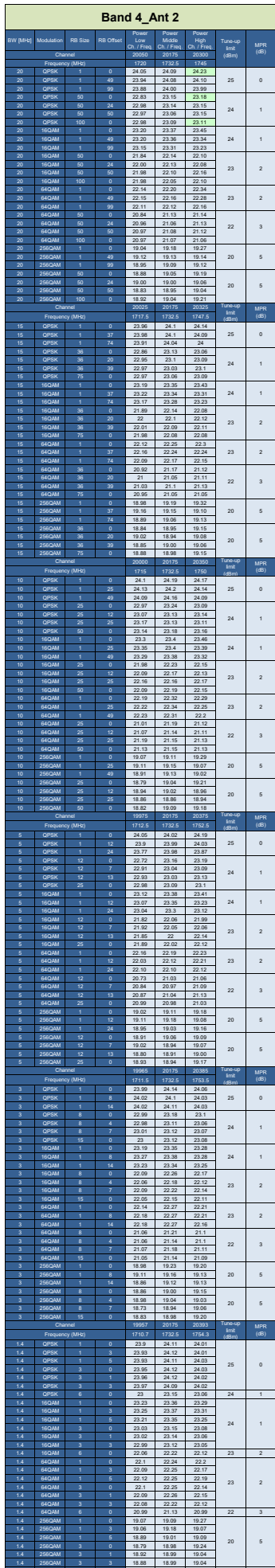
TAB1									
Band				Band				Tx Power	
Base Average Power (dBm)				Base Average Power (dBm)				Tx Power	
TX Channel	574.2	574.2	574.2	TX Channel	574.2	574.2	574.2	Limit	Limit
Frequency (MHz)	574.2	574.2	574.2	Frequency (MHz)	574.2	574.2	574.2	34.50	35.50
OSM 1 Tx Unit	32.73	32.88	32.76	34.00	33.73	33.88	33.76	35.00	
OPRR 1 Tx Unit	32.27	32.79	32.31	34.00	33.55	33.75	33.31	35.00	
OPRR 2 Tx Unit	27.04	27.75	27.09	29.00	26.38	27.49	26.43	25.24	
OPRR 3 Tx Unit	26.55	26.32	26.18	28.00	23.08	23.32	23.18	25.00	
EDGE 1 Tx Unit	26.89	27.12	27.08	28.00	17.89	18.12	18.08	19.00	
EDGE 2 Tx Unit	24.03	23.68	23.81	25.00	18.03	17.96	17.81	18.00	
EDGE 3 Tx Unit	22.00	21.69	21.83	23.00	17.74	17.73	17.97	18.24	
EDGE 4 Tx Unit	20.89	20.82	20.88	22.00	17.80	17.82	17.88	19.00	

TAB1									
Band				Band				Tx Power	
Base Average Power (dBm)				Base Average Power (dBm)				Tx Power	
TX Channel	512	661	816	TX Channel	512	661	816	Limit	Limit
Frequency (MHz)	1660.2	1660	1660.8	Frequency (MHz)	1660.2	1660	1660.8	35.50	35.50
OSM 1 Tx Unit	29.03	29.02	28.91	30.00	20.93	20.95	19.91	21.00	
OPRR 1 Tx Unit	30.02	30.04	30.06	30.00	20.93	20.94	19.96	21.00	
OPRR 2 Tx Unit	26.72	26.78	26.76	27.00	18.72	18.78	18.76	21.00	
OPRR 3 Tx Unit	23.61	23.86	23.76	24.00	18.60	18.62	18.52	20.74	
OPRR 4 Tx Unit	22.32	22.32	22.31	23.00	18.32	18.32	18.31	20.50	
EDGE 1 Tx Unit	25.46	25.34	25.07	26.00	16.40	16.34	16.07	17.50	
EDGE 2 Tx Unit	22.49	22.68	22.79	23.00	16.49	16.58	16.79	17.50	
EDGE 3 Tx Unit	20.46	20.57	20.08	21.00	16.20	16.31	15.82	17.24	
EDGE 4 Tx Unit	19.25	19.49	18.51	20.00	15.95	15.95	16.51	17.00	

TAB0									
Band				Band				Tx Power	
Base Average Power (dBm)				Base Average Power (dBm)				Tx Power	
TX Channel	1312	1413	1513	TX Channel	1312	1413	1513	Limit	Limit
Frequency (MHz)	1712.4	1712.4	1712.6	Frequency (MHz)	1712.4	1712.4	1712.6	34.50	35.50
OSM 1 Tx Unit	24.42	24.48	24.18	24.00	21.24	21.36	21.23	24.50	
OPRR 1 Tx Unit	24.22	24.30	24.20	25.00	23.08	23.05	23.25	24.50	
OPRR 2 Tx Unit	23.37	23.35	23.40	24.00	22.04	22.12	22.21	23.00	
OPRR 3 Tx Unit	23.32	23.36	23.37	24.00	22.02	22.09	22.06	23.00	
OPRR 4 Tx Unit	22.68	22.85	22.89	23.00	21.81	21.83	21.85	23.00	
OPRR 5 Tx Unit	22.65	22.84	22.84	23.00	21.40	21.57	21.46	23.00	
OPRR 6 Tx Unit	23.33	23.38	23.34	24.00	22.08	22.05	22.09	23.50	
OPRR 7 Tx Unit	23.24	23.33	23.34	24.00	22.03	21.93	22.08	23.00	
OPRR 8 Tx Unit	22.80	22.85	22.79	23.00	21.80	21.83	21.81	23.00	
OPRR 9 Tx Unit	22.78	22.88	22.75	23.00	21.50	21.59	21.58	23.00	
OPRR 10 Tx Unit	21.15	21.33	21.31	23.00	20.91	20.95	20.90	22.50	
OPRR 11 Tx Unit	19.29	19.45	19.40	21.00	18.91	18.86	19.01	20.50	
OPRR 12 Tx Unit	21.20	21.62	21.36	22.00	20.74	20.69	20.75	21.50	
OPRR 13 Tx Unit	20.81	20.85	20.92	21.00	20.28	20.36	20.28	20.75	
OPRR 14 Tx Unit	22.30	22.30	22.30	23.00	21.15	21.21	21.25	22.00	
OPRR 15 Tx Unit	19.01	19.11	19.02	20.00	18.52	18.53	18.72	20.00	



Band 2_Ant 2									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Fires	Power High Ch./Fires	Power Mid Ch./Fires	Turn-up time (Sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.49	22.54	22.59			
20	QPSK	1	49	22.27	22.32	22.37			
20	QPSK	1	99	22.35	22.39	22.43			24
20	QPSK	50	0	21.27	21.60	21.29			
20	QPSK	50	24	21.31	21.51	21.41			
20	QPSK	50	50	21.50	21.35	21.25			23
20	QPSK	100	0	21.35	21.48	21.37			
20	QPSK	100	50	21.72	21.72	21.64			
20	HQAM	1	49	21.55	21.69	21.57			23
20	HQAM	1	99	21.61	21.59	21.58			
20	HQAM	50	0	20.26	20.20	20.23			
20	HQAM	50	24	20.37	20.31	20.36			22
20	HQAM	100	0	20.38	20.45	20.21			
20	HQAM	1	0	20.63	20.50	20.44			
20	HQAM	1	49	20.44	20.40	20.42			22
20	HQAM	50	0	19.24	19.25	19.23			
20	HQAM	50	24	19.37	19.30	19.33			21
20	HQAM	100	0	19.38	19.45	19.34			
20	HQAM	1	0	17.50	17.58	17.64			19
20	255QAM	1	99	17.48	17.51	17.49			
20	255QAM	50	0	17.48	17.50	17.48			
20	255QAM	50	24	17.36	17.48	17.51			19
20	255QAM	50	50	17.38	17.38	17.54			
20	255QAM	100	0	17.46	17.47	17.47			
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.57	18.60	18.55			
15	QPSK	1	49	22.32	22.32	22.32			
15	QPSK	1	99	22.18	22.41	22.27			24
15	QPSK	1	74	22.26	22.23	22.27			
15	QPSK	36	0	21.29	21.50	21.22			
15	QPSK	36	24	21.32	21.43	21.43			
15	QPSK	36	36	21.46	21.30	21.28			23
15	QPSK	75	0	21.24	21.42	21.38			
15	HQAM	1	74	21.34	21.74	21.64			
15	HQAM	1	37	21.59	21.71	21.69			23
15	HQAM	36	74	21.61	21.64	21.68			
15	HQAM	36	0	20.17	20.20	20.19			
15	HQAM	36	20	20.33	20.52	20.38			22
15	HQAM	75	0	20.33	20.37	20.36			
15	HQAM	75	0	20.33	20.37	20.36			
15	HQAM	1	0	20.56	20.57	20.56			22
15	HQAM	1	49	20.56	20.57	20.56			
15	HQAM	1	74	20.56	20.52	20.52			
15	HQAM	36	0	19.31	19.57	19.23			21
15	HQAM	36	20	19.47	19.53	19.33			
15	HQAM	36	36	19.42	19.31	19.17			
15	HQAM	75	0	19.40	19.41	19.34			
15	255QAM	1	74	17.46	17.58	17.64			19
15	255QAM	1	74	17.48	17.38	17.50			
15	255QAM	36	20	17.32	17.42	17.57			19
15	255QAM	36	39	17.32	17.27	17.48			
15	255QAM	75	0	17.46	17.47	17.47			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.41	22.41	22.41			
10	QPSK	1	25	22.23	22.42	22.25			24
10	QPSK	1	49	22.29	22.28	22.34			
10	QPSK	1	24	22.35	22.34	22.30			
10	QPSK	25	12	21.33	21.51	21.37			23
10	QPSK	25	25	21.42	21.34	21.17			
10	QPSK	50	0	21.27	21.27	21.27			
10	HQAM	1	0.3	22.01	21.94	21.60			23
10	HQAM	1	25	22.00	21.63	21.53			
10	HQAM	50	0	20.18	20.18	20.18			
10	HQAM	50	25	20.18	20.64	20.22			
10	HQAM	25	11.96	20.32	20.41	20.35			22
10	HQAM	40	0	20.29	20.34	20.29			
10	HQAM	50	0	20.29	20.45	20.26			
10	HQAM	1	0	20.29	20.66	20.49			22
10	HQAM	1	49	20.52	20.53	20.57			
10	HQAM	25	0	19.32	19.49	19.27			
10	HQAM	25	12	19.36	19.36	19.27			
10	HQAM	25	25	19.46	19.35	19.20			21
10	HQAM	50	0	19.38	19.35	19.27			
10	255QAM	1	25	17.52	17.52	17.52			19
10	255QAM	1	25	17.44	17.55	17.57			
10	255QAM	1	49	17.43	17.37	17.62			
10	255QAM	1	25	17.38	17.46	17.47			
10	255QAM	25	12	17.34	17.48	17.48			19
10	255QAM	25	25	17.30	17.38	17.54			
10	255QAM	50	0	17.42	17.40	17.45			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.41	22.41	22.41			
5	QPSK	1	12	22.28	22.45	22.37			24
5	QPSK	1	24	22.25	22.34	22.30			
5	QPSK	12	0	21.33	21.53	21.38			
5	QPSK	12	7	21.24	21.52	21.46			23
5	QPSK	12	13	21.51	21.39	21.19			
5	HQAM	1	0	21.34	21.48	21.31			
5	HQAM	1	0	21.65	21.72	21.60			23
5	HQAM	1	12	21.46	21.68	21.61			
5	HQAM	12	0	21.58	21.57	21.62			
5	HQAM	12	0	20.31	20.55	20.21			22
5	HQAM	12	7	20.37	20.50	20.34			
5	HQAM	12	0	20.46	20.30	20.23			
5	HQAM	25	0	20.37	20.42	20.36			
5	HQAM	1	0	20.57	20.54	20.45			22
5	HQAM	1	24	20.39	20.44	20.45			
5	HQAM	1	24	20.58	20.48	20.45			
5	HQAM	12	0	19.27	19.31	19.25			
5	HQAM	12	7	19.36	19.40	19.27			21
5	HQAM	12	13	19.52	19.33	19.18			
5	HQAM	25	0	19.42	19.39	19.31			
5	255QAM	1	12	17.58	17.57	17.53			19
5	255QAM	1	12	17.47	17.57	17.64			
5	255QAM	1	24	17.46	17.44	17.47			
5	255QAM	12	0	17.46	17.41	17.46			
5	255QAM	12	7	17.23	17.41	17.44			19
5	255QAM	12	13	17.20	17.39	17.39			
5	255QAM	25	0	17.42	17.40	17.45			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.53	22.48	22.37			
3	QPSK	1	8	22.27	22.43	22.34			24
3	QPSK	1	14	22.27	22.32	22.32			
3	QPSK	8	0	21.31	21.54	21.43			
3	QPSK	8	4	21.27	21.41	21.36			23
3	QPSK	8	7	21.52	21.39	21.25			
3	HQAM	1	0	21.40	21.67	21.61			23
3	HQAM	1	8	21.48	21.70	21.51			
3	HQAM	8	4	21.57	21.62	21.59			
3	HQAM	8	0	20.25	20.59	20.22			22
3	HQAM	8	4	20.37	20.50	20.34			
3	HQAM	8	0	20.37	20.41	20.19			
3	HQAM	16	0	20.36	20.36	20.22			
3	HQAM	1	0	20.49	20.63	20.43			22
3	HQAM	1	0	20.49	20.53	20.36			
3	HQAM	8	0	19.27	19.31	19.16			
3	HQAM	8	7	19.29	19.31	19.36			21
3	HQAM	16	0	17.41	17.47	17.47			
3	255QAM	1	0	17.53	17.62	17.67			19
3	255QAM	1	8	17.47	17.48	17.49			
3	255QAM	8	4	17.46	17.45	17.44			
3	255QAM	8	0	17.42	17.47	17.49			19
3	255QAM	8	0	17.33	17.48	17.43			
3	255QAM	17	0	17.37	17.39	17.43			
3	255QAM	15	0	17.42	17.40	17.50			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.54	22.44	22.36			
1.4	QPSK	1	3	22.24	22.45	22.36			24
1.4	QPSK	1	5	22.34	22.22	22.45			
1.4	QPSK	15	0	21.28	21.45	21.29			
1.4	QPSK	3	1	22.26	22.53	22.38			
1.4	QPSK	3	2	21.40	21.52	21.39			23
1.4	HQAM	1	0	21.77	21.72	21.67			
1.4	HQAM	1	3	21.57	21.62	21.59			
1.4	HQAM	1	5	21.51	21.51	21.53			23
1.4	HQAM	1	0	20.26	20.59	20.22			
1.4	HQAM	3	0	20.37	20.49	20.34			22
1.4	HQAM	3	2	20.37	20.41	20.19			
1.4	HQAM	3	0	20.36	20.36	20.22			
1.4	HQAM	3	1	20.49	20.63	20.43			22
1.4	HQAM	3	0	20.24	20.55	20.25			
1.4	HQAM	3	1	20.30	20.42	20.23			
1.4	HQAM	3	1	20.39	20.39	20.41			22
1.4	HQAM	6	0	19.37	19.37	19.25			21
1.4	HQAM	1	0	17.46	17.48	17.56			
1.4	HQAM	1	0	17.47	17.47	17.47			
1.4	255QAM	1	0	17.36	17.39	17.58			19
1.4	255QAM	1	0	17.31	17.35	17.46			
1.4	255QAM	3	3	17.37	17.25	17.47			



Band 4, Ant 3												
RF (MHz)	Modulation	RF BW (MHz)	RF Ch. Freq.	Power (dBm)	Power (dBm)	Power (dBm)	Time-per-Subframe (ms)	MPE (dB)				
Channel				19650	19750	19850						
Frequency (MHz)												
25	QPSK	1	8	23.32	23.29	23.45						
20	QPSK	1	49	23.24	23.34	23.42	25	0				
20	QPSK	50	24	23.29	23.33	23.40						
20	QPSK	50	74	23.28	23.32	23.41	24	1				
20	QPSK	50	99	23.28	23.31	23.35						
20	QPSK	100	9	22.28	22.23	22.32						
20	QPSK	100	34	22.29	22.44	22.48	24	1				
20	QPSK	100	59	22.28	22.44	22.48						
20	QPSK	100	84	22.28	22.44	22.48	24	1				
20	QPSK	100	109	22.28	22.44	22.48						
20	QPSK	150	51	21.22	21.31	21.41						
20	QPSK	150	76	21.22	21.36	21.42	23	2				
20	QPSK	150	101	21.21	21.34	21.41						
20	QPSK	150	126	21.21	21.42	21.62	23	2				
20	QPSK	150	151	21.21	21.43	21.63						
20	QPSK	150	176	20.25	20.34	20.44	22	3				
20	QPSK	150	201	20.25	20.34	20.44						
20	QPSK	150	226	20.25	20.34	20.44	22	3				
20	QPSK	150	251	20.25	20.34	20.44						
20	QPSK	150	276	18.55	18.47	18.86						
20	QPSK	150	301	18.48	18.48	18.86	20					
20	QPSK	150	326	18.48	18.48	18.86						
20	QPSK	150	351	18.48	18.48	18.86	20					
20	QPSK	150	376	18.48	18.48	18.86						
20	QPSK	150	401	18.48	18.48	18.86	20					
Channel <td>1717.5</td> <td>1722.5</td> <td>1727.5</td> <td></td> <td></td>				1717.5	1722.5	1727.5						
15	QPSK	1	8	23.21	23.14	23.47						
15	QPSK	1	33	23.21	23.14	23.47	25	0				
15	QPSK	1	58	23.21	23.14	23.47						
15	QPSK	1	83	23.28	23.32	23.39						
15	QPSK	1	108	22.29	22.29	22.33						
15	QPSK	1	133	22.29	22.30	22.31	24	1				
15	QPSK	36	39	22.11	22.24	22.28						
15	QPSK	36	64	22.27	22.28	22.44	24	1				
15	QPSK	36	89	22.27	22.28	22.44						
15	QPSK	36	114	22.27	22.28	22.44	24	1				
15	QPSK	36	139	22.27	22.28	22.44						
15	QPSK	36	164	22.27	22.28	22.44	24	1				
15	QPSK	36	189	22.27	22.28	22.44						
15	QPSK	36	214	22.27	22.28	22.44	24	1				
15	QPSK	36	239	22.27	22.28	22.44						
15	QPSK	36	264	22.27	22.28	22.44	24	1				
15	QPSK	36	289	22.27	22.28	22.44						
15	QPSK	36	314	22.27	22.28	22.44	24	1				
15	QPSK	36	339	22.27	22.28	22.44						
15	QPSK	36	364	22.27	22.28	22.44	24	1				
15	QPSK	36	389	22.27	22.28	22.44						
15	QPSK	36	414	22.27	22.28	22.44	24	1				
15	QPSK	36	439	22.27	22.28	22.44						
15	QPSK	36	464	22.27	22.28	22.44	24	1				
15	QPSK	36	489	22.27	22.28	22.44						
15	QPSK	36	514	22.27	22.28	22.44	24	1				
15	QPSK	36	539	22.27	22.28	22.44						
15	QPSK	36	564	22.27	22.28	22.44	24	1				
15	QPSK	36	589	22.27	22.28	22.44						
15	QPSK	36	614	22.27	22.28	22.44	24	1				
15	QPSK	36	639	22.27	22.28	22.44						
15	QPSK	36	664	22.27	22.28	22.44	24	1				
15	QPSK	36	689	22.27	22.28	22.44						
15	QPSK	36	714	22.27	22.28	22.44	24	1				
15	QPSK	36	739	22.27	22.28	22.44						
15	QPSK	36	764	22.27	22.28	22.44	24	1				
15	QPSK	36	789	22.27	22.28	22.44						
15	QPSK	36	814	22.27	22.28	22.44	24	1				
15	QPSK	36	839	22.27	22.28	22.44						
15	QPSK	36	864	22.27	22.28	22.44	24	1				
15	QPSK	36	889	22.27	22.28	22.44						
15	QPSK	36	914	22.27	22.28	22.44	24	1				
15	QPSK	36	939	22.27	22.28	22.44						
15	QPSK	36	964	22.27	22.28	22.44	24	1				
15	QPSK	36	989	22.27	22.28	22.44						
15	QPSK	36	1014	22.27	22.28	22.44	24	1				
15	QPSK	36	1039	22.27	22.28	22.44						
15	QPSK	36	1064	22.27	22.28	22.44	24	1				
15	QPSK	36	1089	22.27	22.28	22.44						
15	QPSK	36	1114	22.27	22.28	22.44	24	1				
15	QPSK	36	1139	22.27	22.28	22.44						
15	QPSK	36	1164	22.27	22.28	22.44	24	1				
15	QPSK	36	1189	22.27	22.28	22.44						
15	QPSK	36	1214	22.27	22.28	22.44	24	1				
15	QPSK	36	1239	22.27	22.28	22.44						
15	QPSK	36	1264	22.27	22.28	22.44	24	1				
15	QPSK	36	1289	22.27	22.28	22.44						
15	QPSK	36	1314	22.27	22.28	22.44	24	1				
15	QPSK	36	1339	22.27	22.28	22.44						
15	QPSK	36	1364	22.27	22.28	22.44	24	1				
15	QPSK	36	1389	22.27	22.28	22.44						
15	QPSK	36	1414	22.27	22.28	22.44	24	1				
15	QPSK	36	1439	22.27	22.28	22.44						
15	QPSK	36	1464	22.27	22.28	22.44	24	1				
15	QPSK	36	1489	22.27	22.28	22.44						
15	QPSK	36	1514	22.27	22.28	22.44	24	1				
15	QPSK	36	1539	22.27	22.28	22.44						
15	QPSK	36	1564	22.27	22.28	22.44	24	1				
15	QPSK	36	1589	22.27	22.28	22.44						
15	QPSK	36	1614	22.27	22.28	22.44	24	1				
15	QPSK	36	1639	22.27	22.28	22.44						
15	QPSK	36	1664	22.27	22.28	22.44	24	1				
15	QPSK	36	1689	22.27	22.28	22.44						
15	QPSK	36	1714	22.27	22.28	22.44	24	1				
15	QPSK	36	1739	22.27	22.28	22.44						
15	QPSK	36	1764	22.27	22.28	22.44	24	1				
15	QPSK	36	1789	22.27	22.28	22.44						
15	QPSK	36	1814	22.27	22.28	22.44	24	1				
15	QPSK	36	1839	22.27	22.28	22.44						
15	QPSK	36	1864	22.27	22.28	22.44	24	1				
15	QPSK	36	1889	22.27	22.28	22.44						
15	QPSK	36	1914	22.27	22.28	22.44	24	1				
15	QPSK	36	1939	22.27	22.28	22.44						
15	QPSK	36	1964	22.27	22.28	22.44	24	1				
15	QPSK	36	1989	22.27	22.28	22.44						
15	QPSK	36	2014	22.27	22.28	22.44	24	1				
15	QPSK	36	2039	22.27	22.28	22.44						
15	QPSK	36	2064	22.27	22.28	22.44	24	1				
15	QPSK	36	2089	22.27	22.28	22.44						
15	QPSK	36	2114	22.27	22.28	22.44	24	1				
15	QPSK	36	2139	22.27	22.28	22.44						
15	QPSK	36	2164	22.27	22.28	22.44	24	1				
15	QPSK	36	2189	22.27	22.28	22.44						
15	QPSK	36	2214	22.27	22.28	22.44	24	1				
15	QPSK	36	2239	22.27	22.28	22.44						
15	QPSK	36	2264	22.27	22.28	22.44	24	1				
15	QPSK	36	2289	22.27	22.28	22.44						
15	QPSK	36	2314	22.27	22.28	22.44	24	1				
15	QPSK	36	2339	22.27	22.28	22.44						
15	QPSK	36	2364	22.27	22.28	22.44	24	1				
15	QPSK	36	2389	22.27	22.28	22.44						
15	QPSK	36	2414	22.27	22.28	22.44	24	1				
15	QPSK	36	2439	22.27	22.28	22.44						
15	QPSK	36	2464	22.27	22.28	22.44	24	1				
15	QPSK	36	2489	22.27	22.28	22.44						
15	QPSK	36	2514	22.27	22.28	22.44	24	1				
15	QPSK	36	2539	22.27	22.28	22.44						
15	QPSK	36	2564	22.27	22.28	22.44	24	1				
15	QPSK	36	2589	22.27	22.28	22.44						
15	QPSK	36	2614	22.27	22.28	22.44	24	1				
15	QPSK	36	2639	22.27	22.28	22.44						
15	QPSK	36	2664	22.27	22.28	22.44	24	1				
15	QPSK	36	2689	22.27	22.28	22.44						
15	QPSK	36	2714	22.27	22.28	22.44	24	1				
15	QPSK	36	2739	22.27	22.28	22.44						
15	QPSK	36	2764	22.27	22.28	22.44	24	1				
15	QPSK	36	2789	22.27	22.28	22.44						
15	QPSK	36	2814	22.27	22.28	22.44	24	1				
15	QPSK	36	2839	22.27	22.28	22.44						
15	QPSK	36	2864	22.27	22.28	22.44	24	1				
15	QPSK	36	2889	22.27	22.28	22.44						
15	QPSK	36	2914	22.27	22.28	22.44	24	1				
15	QPSK	36	2939	22.27	22.28	22.44						
15	QPSK	36	2964	22.27	22.28	22.44	24	1				
15	QPSK	36	2989	22.27	22.28	22.44						
15	QPSK	36	3014	22.27	22.28	22.44	24	1				
15	QPSK	36	3039	22.27	22.28	22.44						
15	QPSK	36	3064	22.27	22.28	22.44	24	1				
15	QPSK	36	3089	22.27	22.28	22.44						
15	QPSK	36	3114	22.27	22.28	22.44	24	1				
15	QPSK	36	3139	22.27	22.28	22.44						
15	QPSK	36	3164	22.27	22.28	22.44	24	1				
15	QPSK	36	3189	22.27	22.28	22.44						
15	QPSK	36	3214	22.27	22.28	22.44	24	1				
15	QPSK	36	3239	22.27	22.28	22.44						
15	QPSK	36	3264	22.27	22.28	22.44	24	1				
15	QPSK	36	3289	22.27	22.28	22.44						
15	QPSK	36										

Band 5 Ant 0										
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freq dBm/0	Power Ch / Freq dBm/0	Power Ch / Freq dBm/0	Time-on- line (min)	Height (m)		
Channel										
10	QPSK	1	0	24.00	24.68	24.00				
10	QPSK	1	25	24.04	24.54	24.04				
10	QPSK	8	40	24.00	24.00	24.00	25.7	0		
10	QPSK	25	0	23.00	23.68	23.00				
10	QPSK	25	12	23.41	23.60	23.41				
10	QPSK	25	12	23.41	23.60	23.41	24.7	1		
10	QPSK	80	0	23.47	23.63	23.47				
10	QPSK	1	0	23.02	23.48	23.02				
10	QPSK	1	25	23.34	23.50	23.41				
10	QPSK	1	25	22.88	23.42	22.88	24.7	1		
10	QPSK	25	0	22.83	22.81	22.84				
10	QPSK	25	12	22.40	22.52	22.40				
10	QPSK	25	25	22.43	22.54	22.46	23.7	2		
10	QPSK	80	0	22.37	22.47	22.80				
10	QPSK	1	0	22.38	22.30	22.47				
10	QPSK	1	25	22.30	22.70	22.48	23.7	2		
10	QPSK	1	25	22.47	22.72	22.68				
10	QPSK	25	0	22.48	22.52	22.48				
10	QPSK	25	12	21.39	21.52	21.39	22.7	3		
10	QPSK	25	12	22.41	22.51	22.46				
10	QPSK	80	0	21.20	21.50	21.49				
10	256QAM	1	0	19.84	20.04	19.83				
10	256QAM	1	25	19.82	19.87	19.86	20.7			
10	256QAM	1	40	19.93	20.07	19.93				
10	256QAM	25	0	19.79	19.88	19.79				
10	256QAM	25	12	19.81	19.87	19.82	20.7			
10	256QAM	25	25	19.78	19.82	19.78				
10	256QAM	80	0	19.83	19.90	19.84				
Frequency (MHz)										
5	QPSK	1	0	24.43	24.43	24.41				
5	QPSK	1	25	24.43	24.43	24.43	25.7	0		
5	QPSK	1	24	24.03	24.29	24.04				
5	QPSK	12	0	23.37	23.62	23.42				
5	QPSK	12	0	23.42	23.62	23.42	24.7	1		
5	QPSK	12	13	23.25	23.39	23.27				
5	QPSK	25	0	23.31	23.47	23.37				
5	QPSK	1	0	23.07	23.40	23.07				
5	QPSK	1	12	23.74	23.35	23.61	24.7	1		
5	QPSK	1	24	23.74	23.35	23.66				
5	QPSK	12	13	22.38	22.44	22.25	23.7	2		
5	QPSK	12	13	22.30	22.47	22.20				
5	QPSK	1	0	22.33	22.12	22.63				
5	QPSK	1	12	22.35	22.75	22.43	23.7	2		
5	QPSK	1	24	21.21	21.49	21.20				
5	QPSK	12	0	21.43	21.49	21.48				
5	QPSK	12	7	21.20	21.61	21.40	22.7	3		
5	QPSK	12	13	21.37	21.45	21.35				
5	QPSK	25	0	21.28	21.38	21.30				
5	256QAM	1	0	19.93	19.87	19.94				
5	256QAM	1	12	19.86	19.77	19.89	20.7	5		

Band 5_Ant 1												
BW (MHz)	Modulation	RBZ Size	RBZ Offset	Primary Channel Freq (MHz)	Primary Channel Freq (MHz)	Primary Channel Freq (MHz)	Turn-up time (mins)	MPE (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	5	24.41	24.43	24.54						
10	QPSK	1	25	24.54	24.60	24.52	25.7	0				
10	QPSK	1	49	24.64	24.63	24.53						
10	QPSK	26	5	23.63	23.72	23.65						
10	QPSK	26	12	23.60	23.63	23.60	24.7	1				
10	QPSK	26	19	23.49	23.64	23.56						
10	QPSK	30	5	23.29	23.70	23.51						
10	QPSK	1	5	23.86	23.80	24.21	24.7	1				
10	QPSK	26	12	23.82	23.78	23.80						
10	QPSK	1	49	23.89	24.00	24.12						
10	QPSK	26	5	22.63	22.64	22.67	23.7	2				
10	QPSK	26	12	22.62	22.58	22.48						
10	QPSK	26	19	22.49	22.66	22.51						
10	QPSK	30	5	22.29	22.54	23.82						
10	QPSK	1	25	22.27	22.60	22.65	23.7	2				
10	QPSK	1	49	22.63	22.69	22.67						
10	QPSK	26	5	21.76	21.87	21.87	22.7	3				
10	QPSK	26	12	21.75	21.77	21.73						
10	QPSK	30	5	21.49	21.52	21.47						
10	QPSK	1	5	20.14	20.20	20.08						
10	QPSK	26	5	19.85	19.86	19.86	20.7	5				
10	QPSK	1	49	19.80	19.80	19.90						
10	QPSK	26	5	19.76	19.90	19.73						
10	QPSK	26	12	19.75	19.86	19.81	20.7	5				
10	QPSK	26	19	19.74	19.74	19.81						
10	QPSK	30	5	19.63	19.69	19.78						
Frequency (MHz)												
8	QPSK	1	5	826.5	830.5	845.5						
8	QPSK	1	5	841.1	843.9	843.9	26.7	0				
8	QPSK	1	24	843.7	843.7	843.7						
8	QPSK	1	24	843.7	843.7	843.7						
8	QPSK	12	5	23.50	23.57	23.46						
8	QPSK	12	19	23.52	23.63	23.56	24.7	1				
8	QPSK	12	19	23.52	23.56	23.44						
8	QPSK	25	5	23.36	23.37	23.38						
8	QPSK	1	5	23.81	23.87	23.82	24.7	1				
8	QPSK	1	12	23.80	23.87	23.88						
8	QPSK	1	24	23.85	23.87	23.88						
8	QPSK	12	13	22.47	22.47	22.47	23.7	2				
8	QPSK	12	13	22.48	22.44	22.47						
8	QPSK	12	13	22.37	22.56	22.46						
8	QPSK	26	5	22.29	22.24	22.24						
8	QPSK	1	5	22.62	22.44	22.67	23.7	2				
8	QPSK	1	12	22.67	22.46	22.67						
8	QPSK	1	24	22.71	22.49	22.69						
8	QPSK	12	5	21.58	21.37	21.33	22.7	3				
8	QPSK	12	7	21.49	21.40	21.47						
8	QPSK	12	19	21.42	21.48	21.37						
8	QPSK	26	5	21.47	21.36	21.42						
8	QPSK	1	5	19.93	20.08	19.94	20.7	5				
8	QPSK	1	12	19.89	19.93	19.99						
8	QPSK	1	24	19.77	19.98	19.77						
8	QPSK	12	5	19.61	19.76	19.66						
8	QPSK	12	19	19.63	19.76	19.66	20.7	5				
8	QPSK	12	19	19.75	19.86	19.81						
8	QPSK	26	5	19.69	19.82	19.78						
Channel												
Frequency (MHz)												
1.4	QPSK	1	3	24.41	24.43	24.57						
1.4	QPSK	1	3	24.49	24.43	24.53	25.7	0				
1.4	QPSK	1	5	24.47	24.38	24.35						
1.4	QPSK	1	4	24.36	24.44	24.36						
1.4	QPSK	3	1	24.39	24.33	24.37						
1.4	QPSK	3	3	24.38	24.36	24.28	24.7	1				
1.4	QPSK	3	5	23.57	23.53	23.44						
1.4	QPSK	1	5	23.98	23.74	23.68						
1.4	QPSK	1	3	23.76	23.84	23.83	24.7	1				
1.4	QPSK	1	5	23.84	23.89	23.88						
1.4	QPSK	3	5	23.74	23.65	23.64						
1.4	QPSK	3	1	23.61	23.61	23.76						
1.4	QPSK	3	3	23.79	23.77	23.68	23.7	2				
1.4	QPSK	5	0	22.48	22.54	22.27						
1.4	QPSK	1	0	22.65	22.48	22.77						
1.4	QPSK	1	0	22.68	22.49	22.69						
1.4	QPSK	1	5	22.73	22.48	22.47	23.7	2				
1.4	QPSK	3	0	22.46	22.31	22.60						
1.4	QPSK	3	1	22.68	22.50	22.43						
1.4	QPSK	3	3	22.73	22.41	22.41						
1.4	QPSK	1	0	21.90	21.40	21.43	22.7	3				
1.4	QPSK	1	0	19.93	19.87	19.83						
1.4	QPSK	1	0	19.77	19.97	19.82	20.7	5				
1.4	QPSK	3	0	19.69	19.88	19.73						
1.4	QPSK	3	1	19.80	19.86	19.77						
1.4	QPSK	3	1	19.84	19.83	19.72						
1.4	QPSK	6	0	19.73	19.88	19.69	20.7	5				



Band 7_Ant 0												
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Min Ch / Freq.	Power Max Ch / Freq.	Power Avg Ch / Freq.	Turn-up time (sec)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.02	22.14	22.08	23	0				
20	QPSK	1	49	21.74	21.89	21.82						
20	QPSK	1	99	21.81	22.08	22.00						
20	QPSK	50	0	21.15	21.20	21.13	22	1				
20	QPSK	50	24	20.84	21.00	20.97						
20	QPSK	50	50	20.98	21.10	21.03						
20	16QAM	1	0	21.19	21.30	21.27	22	1				
20	16QAM	1	49	21.45	21.49	21.12						
20	16QAM	1	99	20.89	21.22	21.16						
20	16QAM	50	24	19.87	20.10	19.96	21	2				
20	16QAM	50	50	20.98	21.05	20.98						
20	16QAM	100	0	19.72	19.89	19.86						
20	64QAM	1	49	19.61	20.04	19.92	21	2				
20	64QAM	1	99	19.91	20.36	20.30						
20	64QAM	50	0	19.78	19.12	19.99						
20	64QAM	50	24	19.82	19.12	19.95	20	3				
20	64QAM	50	50	19.88	19.10	19.99						
20	64QAM	100	0	19.78	17.04	19.81						
Channel												
Frequency (MHz)												
20	QPSK	1	0	20.07	21.00	20.62.5	23	0				
20	QPSK	1	49	21.62	21.88	21.72						
20	QPSK	1	99	21.65	21.76	21.91						
20	QPSK	36	0	20.47	20.61	20.54	22	1				
20	QPSK	36	39	20.66	20.9	20.78						
20	QPSK	36	75	0	20.69	20.63						
20	16QAM	1	0	20.81	20.85	21.1	22	1				
20	16QAM	1	37	20.54	20.73	20.63						
20	16QAM	1	74	20.54	20.61	21.08						
20	16QAM	36	0	19.49	19.51	19.75	21	2				
20	16QAM	36	39	19.68	19.82	19.81						
20	16QAM	36	75	0	19.69	19.84						
20	16QAM	75	0	19.56	19.74	19.8	21	2				
20	16QAM	75	39	19.56	19.88	19.86						
20	16QAM	1	27	19.72	19.91	19.87						
20	64QAM	1	74	19.87	19.95	20.09	20	3				
20	64QAM	36	0	19.47	18.88	19.83						
20	64QAM	36	39	19.71	19.85	19.86						
20	64QAM	36	75	0	19.61	19.81	18	5				
20	64QAM	75	0	19.52	17.08	19.86						
20	64QAM	75	39	19.73	17.05	19.83						
20	256QAM	1	27	19.84	17.00	19.93	18	5				
20	256QAM	1	74	19.73	18.83	19.69						
20	256QAM	36	0	19.68	18.78	19.83						
20	256QAM	36	39	19.78	18.91	19.85	18	5				
20	256QAM	36	75	0	19.69	18.84						
20	256QAM	75	0	19.75	18.61	19.68						
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.42	21.81	21.74	23	0				
10	QPSK	1	25	21.31	21.71	21.72						
10	QPSK	1	39	21.39	21.84	21.67						
10	QPSK	25	0	20.43	20.74	20.66	22	1				
10	QPSK	25	12	20.44	20.68	20.74						
10	QPSK	25	25	20.47	20.82	20.81						
10	QPSK	50	0	20.43	20.79	20.77	22	1				
10	16QAM	1	0	20.31	20.69	20.61						
10	16QAM	1	25	20.55	21.14	20.86						
10	16QAM	12	0	19.25	19.79	19.78	21	2				
10	16QAM	25	0	19.26	19.79	19.78						
10	16QAM	25	12	19.25	19.63	19.67						
10	16QAM	36	0	19.30	19.81	19.86	20	3				
10	16QAM	50	0	19.5	19.88	19.73						
10	64QAM	1	0	19.14	19.67	19.78						
10	64QAM	1	25	19.34	19.69	19.65	21	2				
10	64QAM	1	49	19.68	19.94	19.83						
10	64QAM	25	0	19.46	19.73	19.77						
10	64QAM	25	12	19.33	19.84	19.86	20	3				
10	64QAM	50	0	19.48	19.88	19.8						
10	64QAM	50	0	19.58	19.63	19.50						
10	256QAM	1	0	17.05	17.07	16.90	18	5				
10	256QAM	1	25	16.97	17.00	17.00						
10	256QAM	1	49	16.76	16.81	16.74						
10	256QAM	25	0	16.82	16.74	16.94	18	5				
10	256QAM	25	12	16.77	16.98	16.86						
10	256QAM	25	25	16.77	16.82	16.82						
10	256QAM	50	0	16.81	16.82	16.83	18	5				
10	256QAM	50	0	16.81	16.82	16.83						
10	256QAM	50	0	16.81	16.82	16.83						
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.4	21.61	21.48	23	0				
5	QPSK	1	12	21.39	21.71	21.72						
5	QPSK	1	24	21.31	21.84	21.67						
5	QPSK	12	0	20.43	20.74	20.66	22	1				
5	QPSK	12	7	20.41	20.57	20.52						
5	QPSK	12	13	20.52	20.8	20.78						
5	QPSK	25	0	20.35	20.70	20.65	22	1				
5	16QAM	1	0	20.4	21.2	21.1						
5	16QAM	1	12	20.48	21.26	20.65						
5	16QAM	1	24	20.48	20.69	21.18	21	2				
5	16QAM	12	0	19.45	19.71	19.84						
5	16QAM	12	7	19.38	19.61	19.92						
5	16QAM	12	13	19.36	19.69	19.77	20	3				
5	16QAM	25	0	19.37	19.67	19.96						
5	64QAM	1	0	19.4	19.66	19.98						
5	64QAM	1	12	19.65	19.97	20.11	21	2				
5	64QAM	1	24	19.59	19.63	20.15						
5	64QAM	12	0	19.41	19.69	19.81						
5	64QAM	12	7	19.39	19.68	19.85	20	3				
5	64QAM	12	13	19.42	19.74	19.94						
5	64QAM	25	0	17.02	17.02	16.90						
5	256QAM	1	12	16.98	17.00	16.92	18	5				
5	256QAM	1	49	16.72	16.85	16.83						
5	256QAM	12	0	16.79	16.86	16.81						
5	256QAM	12	7	16.84	16.85	16.84	18	5				
5	256QAM	12	13	16.79	16.85	16.81						
5	256QAM	25	0	16.79	16.86	16.76						

Band 7_Ant 1									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Min Ch / Freq.	Power Max Ch / Freq.	Power Avg Ch / Freq.	Turn-up time (Sec)	MFR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.36	22.47	22.35	24	0	
20	QPSK	1	49	22.26	22.40	22.33			
20	QPSK	1	99	22.31	22.37	22.28			
20	QPSK	50	0	21.47	21.55	21.53	23	1	
20	QPSK	50	24	21.43	21.48	21.51			
20	QPSK	50	0	21.27	21.68	21.48	22	2	
20	QPSK	50	50	20.42	20.49	20.47			
20	QPSK	150	0	20.32	20.42	20.39	22	2	
20	QPSK	150	50	20.55	20.45	20.42			
20	QPSK	1	49	20.52	20.73	20.39	22	2	
20	QPSK	50	99	20.61	20.57	20.59			
20	QPSK	50	0	19.31	19.47	19.39	21	3	
20	QPSK	50	24	19.30	19.42	19.46			
20	QPSK	50	50	19.46	19.43	19.44	19	5	
20	QPSK	100	50	19.28	19.40	19.40			
20	QPSK	1	0	17.39	17.52	17.42	19	5	
20	QPSK	1	49	17.31	17.51	17.34			
20	QPSK	50	0	17.19	17.21	17.24	19	5	
20	QPSK	50	24	17.32	17.41	17.30			
20	QPSK	50	50	17.19	17.21	17.24	19	5	
20	QPSK	100	0	17.29	17.39	17.27			
Channel									
Frequency (MHz)									
16	QPSK	1	0	22.19	22.37	22.23	24	0	
16	QPSK	1	37	22.19	22.23	22.24			
16	QPSK	1	75	22.37	22.41	22.34			
16	QPSK	36	0	21.24	21.44	21.24	23	1	
16	QPSK	36	25	21.37	21.40	21.42			
16	QPSK	36	0	21.33	21.50	21.42	22	2	
16	QPSK	36	25	21.38	21.50	21.50			
16	QPSK	1	0	21.15	21.28	21.22	22	2	
16	QPSK	1	49	21.15	21.46	21.31			
16	QPSK	1	74	21.31	21.54	21.53	22	2	
16	QPSK	36	0	20.35	20.32	20.35			
16	QPSK	36	25	20.16	20.44	20.30	21	3	
16	QPSK	36	36	20.34	20.42	20.27			
16	QPSK	75	0	20.26	20.26	20.34	21	3	
16	QPSK	75	25	20.45	20.25	20.35			
16	QPSK	1	37	20.40	20.66	20.27	21	3	
16	QPSK	1	74	20.50	20.48	20.41			
16	QPSK	36	0	19.22	19.36	19.35	21	3	
16	QPSK	36	25	19.32	19.36	19.47			
16	QPSK	36	36	19.33	19.31	19.31	19	5	
16	QPSK	36	75	19.15	19.36	19.41			
16	QPSK	1	0	17.27	17.45	17.37	19	5	
16	QPSK	1	37	17.28	17.44	17.38			
16	QPSK	1	74	17.33	17.42	17.38	19	5	
16	QPSK	36	0	17.32	17.31	17.28			
16	QPSK	36	25	17.23	17.28	17.25	19	5	
16	QPSK	36	75	17.25	17.27	17.26			
16	QPSK	75	0	17.24	17.29	17.19	19	5	
16	QPSK	75	25	17.24	17.29	17.19			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.11	22.27	22.21	24	0	
5	QPSK	1	38	22.15	22.33	22.28			
5	QPSK	1	76	22.36	22.38	22.34			
5	QPSK	25	0	21.27	21.42	21.35	23	1	
5	QPSK	25	14	21.34	21.28	21.53			
5	QPSK	25	0	21.31	21.50	21.41	22	2	
5	QPSK	25	14	21.28	21.48	21.37			
5	QPSK	1	0	21.17	21.37	21.17	22	2	
5	QPSK	1	49	21.13	21.63	21.43			
5	QPSK	1	49	21.25	21.60	21.43	22	2	
5	QPSK	25	0	20.21	20.39	20.33			
5	QPSK	25	0	20.35	20.35	20.35	22	2	
5	QPSK	25	25	20.35	20.35	20.35			
5	QPSK	50	0	20.21	20.35	20.39	22	2	
5	QPSK	50	25	20.25	20.35	20.21			
5	QPSK	1	25	20.45	20.64	20.48	21	3	
5	QPSK	1	49	20.52	20.44	20.36			
5	QPSK	25	0	19.35	19.44	19.36	21	3	
5	QPSK	25	12	19.21	19.33	19.33			
5	QPSK	25	25	19.32	19.24	19.35	21	3	
5	QPSK	25	50	19.35	19.36	19.38			
5	QPSK	1	0	17.32	17.49	17.49	19	5	
5	QPSK	1	25	17.25	17.42	17.32			
5	QPSK	1	50	17.30	17.42	17.30	19	5	
5	QPSK	25	0	17.26	17.27	17.27			
5	QPSK	25	12	17.29	17.24	17.11	19	5	
5	QPSK	25	50	17.23	17.16	17.16			
5	QPSK	50	0	17.22	17.22	17.22	19	5	
5	QPSK	50	25	17.22	17.22	17.22			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.11	22.24	22.21	24	0	
5	QPSK	1	22	22.22	22.22	22.21			
5	QPSK	1	44	22.25	22.25	22.22			
5	QPSK	12	0	21.13	21.44	21.38	23	1	
5	QPSK	12	7	21.20	21.29	21.44			
5	QPSK	1	0	21.37	21.37	21.35	23	1	
5	QPSK	1	12	21.38	21.40	21.43			
5	QPSK	1	0	21.17	21.45	21.26	23	1	
5	QPSK	1	12	21.20	21.56	21.38			
5	QPSK	1	0	20.30	20.55	20.43	22	2	
5	QPSK	12	0	20.33	20.40	20.27			
5	QPSK	12	7	20.15	20.25	20.36	22	2	
5	QPSK	12	12	20.25	20.35	20.31			
5	QPSK	25	0	20.30	20.36	20.37	22	2	
5	QPSK	25	12	20.37	20.35	20.37			
5	QPSK	1	12	20.40	20.56	20.21	22	2	
5	QPSK	1	24	20.50	20.45	20.42			
5	QPSK	12	0	19.39	19.39	19.39	21	3	
5	QPSK	12	7	19.15	19.35	19.35			
5	QPSK	12	19	19.32	19.31	19.35	21	3	
5	QPSK	12	24	19.43	19.30	19.35			
5	QPSK	25	0	17.25	17.38	17.37	19	5	
5	QPSK	25	12	17.18	17.47	17.23			
5	QPSK	25	24	17.25	17.47	17.23	19	5	
5	QPSK	12	12	17.28	17.28	17.25			
5	QPSK	12	17	17.22	17.33	17.25	19	5	
5	QPSK	12	24	17.16	17.30	17.25			
5	QPSK	25	0	17.12	17.30	17.19	19	5	
5	QPSK	25	7	17.22	17.33	17.25			

Band 12_Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Time-up Int. (s)	MPE (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	24.67	24.77	24.66	25.7	0				
10	QPSK	1	25	24.62	24.43	24.63						
10	QPSK	1	49	24.66	24.65	24.40	24.7	1				
10	QPSK	25	12	23.56	23.84	23.74						
10	QPSK	25	12	23.56	23.63	23.71	24.7	1				
10	QPSK	25	25	23.61	23.69	23.69						
10	QPSK	50	0	23.74	23.82	23.64	24.7	1				
10	16QAM	1	49	23.83	24.02	24.20						
10	16QAM	25	0	22.45	22.97	22.61	23.7	2				
10	16QAM	25	12	22.80	22.71	22.59						
10	16QAM	25	25	22.83	22.81	22.86	23.7	2				
10	16QAM	50	0	22.70	22.83	22.74						
10	8QAM	1	0	22.84	22.72	22.78	23.7	2				
10	8QAM	1	25	22.92	22.70	22.82						
10	8QAM	1	49	22.72	22.69	22.80	22.7	3				
10	8QAM	25	0	21.53	21.68	21.70						
10	8QAM	25	12	21.57	21.74	21.85	22.7	3				
10	8QAM	25	25	21.62	21.70	21.71						
10	256QAM	1	0	20.10	20.22	20.12	20.7	5				
10	256QAM	1	25	20.21	20.20	20.26						
10	256QAM	1	49	19.96	20.17	20.21	20.7	5				
10	256QAM	25	0	19.96	20.18	20.28						
10	256QAM	25	12	20.04	20.18	20.04	20.7	5				
10	256QAM	25	25	19.96	20.04	19.96						
10	256QAM	50	0	19.96	20.06	19.93	20.7	5				
Channel												
Frequency (MHz)												
5	QPSK	1	0	24.45	24.60	24.50	25.7	0				
5	QPSK	1	12	24.53	24.52	24.53						
5	QPSK	1	24	24.61	24.60	24.57	24.7	1				
5	QPSK	12	0	23.43	23.65	23.59						
5	QPSK	12	7	23.43	23.63	23.64	24.7	1				
5	QPSK	12	13	23.63	23.59	23.53						
5	QPSK	25	0	23.57	23.69	23.66	24.7	1				
5	16QAM	1	12	23.84	23.74	24.00						
5	16QAM	12	0	22.35	22.96	22.66	23.7	2				
5	16QAM	12	0	22.35	22.96	22.58						
5	16QAM	12	7	22.50	22.58	22.53	23.7	2				
5	16QAM	25	0	22.47	22.52	22.68						
5	8QAM	1	0	22.67	22.57	22.62	22.7	3				
5	8QAM	1	24	22.49	22.54	22.54						
5	8QAM	12	0	21.43	21.67	21.69	20.7	5				
5	8QAM	12	7	21.42	21.61	21.62						
5	8QAM	12	13	21.62	21.65	21.50	20.7	5				
5	8QAM	25	0	21.56	21.50	21.61						
5	256QAM	1	0	19.86	19.95	19.95	20.7	5				
5	256QAM	1	12	20.13	20.24	20.08						
5	256QAM	1	24	19.95	20.10	19.95	20.7	5				
5	256QAM	12	0	19.96	19.96	19.97						
5	256QAM	12	7	19.96	19.99	19.89	20.7	5				
5	256QAM	12	13	19.78	19.81	19.81						
5	256QAM	25	0	19.86	19.88	19.80						
Channel												
Frequency (MHz)												
3	QPSK	1	0	24.46	24.58	24.51	25.7	0				
3	QPSK	1	8	24.65	24.51	24.67						
3	QPSK	1	14	24.56	24.60	24.57	24.7	1				
3	QPSK	3	0	23.49	23.53	23.61						
3	QPSK	8	4	23.61	23.53	23.62	24.7	1				
3	QPSK	8	4	23.61	23.44	23.44						
3	QPSK	16	0	23.63	23.77	23.66	24.7	1				
3	16QAM	1	0	23.97	23.63	24.00						
3	16QAM	1	8	23.97	23.84	24.04	23.7	1				
3	16QAM	8	0	22.82	22.97	22.86						
3	16QAM	8	7	22.44	22.48	22.58	23.7	2				
3	16QAM	15	0	22.55	22.63	22.65						
3	8QAM	1	0	22.69	22.63	22.67	22.7	2				
3	8QAM	1	8	22.72	22.61	22.65						
3	8QAM	1	14	22.60	22.80	22.72	20.7	5				
3	8QAM	8	0	21.44	21.55	21.61						
3	8QAM	8	4	21.50	21.62	21.57	20.7	5				
3	8QAM	8	7	21.53	21.55	21.69						
3	256QAM	1	0	19.38	19.14	19.33	20.7	5				
3	256QAM	1	8	20.12	20.14	20.16						
3	256QAM	1	14	19.97	20.12	19.96	20.7	5				
3	256QAM	8	0	20.06	20.02	19.89						
3	256QAM	8	4	19.86	19.97	19.95	20.7	5				
3	256QAM	8	7	19.80	19.97	19.79						
3	256QAM	15	0	19.98	19.91	19.75	20.7	5				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	24.44	24.54	24.57	25.7	0				
1.4	QPSK	1	3	24.47	24.54	24.53						
1.4	QPSK	1	5	24.58	24.61	24.57	24.7	1				
1.4	QPSK	3	0	24.44	24.53	24.40						
1.4	QPSK	3	1	24.41	24.55	24.48	24.7	1				
1.4	QPSK	3	3	24.53	24.48	24.43						
1.4	16QAM	1	0	23.59	23.78	23.63	23.7	2				
1.4	16QAM	1	3	23.93	23.80	23.98						
1.4	16QAM	1	5	23.75	23.84	24.15	20.7	5				
1.4	16QAM	3	0	23.63	23.62	23.89						
1.4	16QAM	3	1	23.63	23.72	23.63	20.7	5				
1.4	16QAM	3	3	23.63	23.68	24.01						
1.4	16QAM	8	0	22.48	22.52	22.61	23.7	2				
1.4	8QAM	1	0	22.66	22.64	22.68						
1.4	8QAM	1	3	22.73	22.68	22.71	23.7	2				
1.4	8QAM	1	5	22.56	22.64	22.68						
1.4	8QAM	3	0	22.50	22.48	22.50	22.7	3				
1.4	8QAM	3	1	22.62	22.60	22.61						
1.4	8QAM	3	3	22.33	22.52	22.57	20.7	5				
1.4	8QAM	8	0	21.52	21.58	21.53						
1.4	256QAM	1	0	20.01	20.12	19.99	20.7	5				
1.4	256QAM	1	3	20.10	20.17	20.15						
1.4	256QAM	1	5	19.99	20.11	19.96	20.7	5				
1.4	256QAM	3	0	19.95	20.06	19.91						
1.4	256QAM	3	1	19.96	19.98	19.97	20.7	5				
1.4	256QAM	3	3	19.92	19.99	19.91						
1.4	256QAM	8	0	19.84	19.96	19.71	20.7	5				
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	24.44	24.54	24.57	25.7	0				
1.4	QPSK	1	3	24.47	24.54	24.53						
1.4	QPSK	1	5	24.58	24.61	24.57	24.7	1				
1.4	QPSK	3	0	24.44	24.53	24.40						
1.4	QPSK	3	1	24.41	24.55	24.48	24.7	1				
1.4	QPSK	3	3	24.53	24.48	24.43						
1.4	16QAM	1	0	23.59	23.78	23.63	23.7	2				
1.4	16QAM	1	3	23.93	23.80	23.98						



Band 17_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. (dBm)	Power Med Ch / Freq. (dBm)	Power High Ch / Freq. (dBm)	Turn-on time (sec)	MPE (dB)	
Channel									
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.75	24.76	24.72	25.7	0	
10	QPSK	1	25	24.65	24.74	24.70			
10	QPSK	1	49	24.61	24.67	24.68			
10	QPSK	25	0	23.68	23.80	23.70			
10	QPSK	25	12	23.65	23.72	23.68			
10	QPSK	25	25	23.61	23.65	23.64	24.7	1	
10	QPSK	50	0	23.68	23.76	23.72			
10	16QAM	1	0	23.69	24.08	24.08			
10	16QAM	1	25	23.75	24.18	24.15			
10	16QAM	1	49	23.68	24.19	24.20			
10	16QAM	1	0	22.87	22.70	22.78	23.7	2	
10	16QAM	25	12	22.84	22.63	22.76			
10	16QAM	25	25	22.88	22.94	22.82			
10	16QAM	50	0	22.87	22.70	22.68			
10	16QAM	1	0	22.86	22.65	22.60			
10	16QAM	1	25	22.86	22.89	22.80	23.7	2	
10	16QAM	1	49	23.02	22.80	22.73			
10	16QAM	25	0	21.85	21.82	21.82			
10	16QAM	25	12	21.70	21.71	21.68			
10	16QAM	25	25	21.68	21.73	21.68			
10	16QAM	50	0	21.69	21.73	21.68	22.7	3	
10	16QAM	50	0	21.69	21.73	21.68			
10	16QAM	1	25	20.18	20.13	20.13			
10	256QAM	1	49	20.10	20.21	20.16			
10	256QAM	25	6	19.97	20.03	19.98			
10	256QAM	25	12	20.07	20.15	19.95	20.7	5	
10	256QAM	25	25	20.00	20.09	20.06			
10	256QAM	50	0	19.97	20.04	19.98			
Channel									
Frequency (MHz)				706.5 <th>707</th> <th>707.5</th> <th>Turn-on time (sec)</th> <th>MPE (dB)</th> <th></th>	707	707.5	Turn-on time (sec)	MPE (dB)	
5	QPSK	1	0	24.39	24.40	24.50	25.7	0	
5	QPSK	1	12	24.49	24.60	24.60			
5	QPSK	1	24	24.64	24.66	24.62			
5	QPSK	12	0	23.55	23.67	23.56			
5	QPSK	12	7	23.59	23.60	23.60			
5	QPSK	12	13	23.60	23.51	23.52	24.7	1	
5	QPSK	25	0	23.61	23.64	23.68			
5	16QAM	1	0	23.54	23.96	23.93			
5	16QAM	1	12	23.61	24.14	24.02			
5	16QAM	1	24	23.70	24.04	24.08			
5	16QAM	12	0	22.59	22.58	22.64	23.7	2	
5	16QAM	12	7	22.61	22.65	22.69			
5	16QAM	12	13	22.54	22.57	22.48			
5	16QAM	25	0	22.50	22.58	22.49			
5	16QAM	25	0	22.56	22.59	22.60			
5	16QAM	1	0	22.50	22.57	22.52	23.7	2	
5	16QAM	12	0	21.53	21.53	21.53			
5	16QAM	12	7	21.53	21.63	21.65			
5	16QAM	12	13	21.60	21.55	21.51			
5	16QAM	25	0	21.50	21.68	21.47			
5	256QAM	1	0	20.15	20.18	20.03	20.7	5	
5	256QAM	1	12	20.04	20.07	20.01			
5	256QAM	1	24	20.00	20.11	20.06			
5	256QAM	12	0	19.87	19.98	19.86			
5	256QAM	12	7	20.00	19.95	19.96			
5	256QAM	12	13	19.91	20.10	19.85	20.7	5	
5	256QAM	25	0	19.93	20.00	19.92			

Band 17_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Turn-on time (sec)	MPE (dB)	
Channel									
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.02	24.16	24.00	25.5	0	
10	QPSK	1	25	24.01	24.04	23.95			
10	QPSK	1	49	23.98	24.02	23.91			
10	QPSK	25	0	23.07	23.17	23.11			
10	QPSK	25	12	22.99	23.08	23.02			
10	QPSK	25	25	23.02	23.03	23.04	24.5	1	
10	QPSK	50	0	22.88	23.15	23.10			
10	16QAM	1	0	23.21	23.19	23.22			
10	16QAM	1	25	23.24	23.27	23.19			
10	16QAM	1	49	23.27	23.32	23.36			
10	16QAM	1	0	21.98	22.03	22.04	23.5	2	
10	16QAM	25	12	21.97	22.02	22.01			
10	16QAM	25	25	21.96	22.01	22.01			
10	16QAM	50	0	22.08	22.03	21.99			
10	16QAM	1	0	22.07	22.16	22.11			
10	16QAM	1	25	22.16	22.21	22.22	23.5	2	
10	16QAM	1	49	22.32	22.29	22.34			
10	16QAM	25	0	20.95	21.07	21.07			
10	16QAM	25	12	20.97	21.03	20.97			
10	16QAM	25	25	20.96	21.04	20.96			
10	16QAM	50	0	21.02	20.96	21.02	22.5	3	
10	16QAM	50	0	21.02	20.96	21.02			
10	256QAM	1	25	19.45	19.61	19.48			
10	256QAM	1	49	19.49	19.65	19.44			
10	256QAM	25	0	19.34	19.45	19.27			
10	256QAM	25	12	19.30	19.41	19.30	20.5	5	
10	256QAM	25	25	19.39	19.45	19.33			
10	256QAM	50	0	19.27	19.38	19.23			
Channel									
Frequency (MHz)				706.5 <th>710</th> <th>713.5</th> <th>Turn-on time (sec)</th> <th>MPE (dB)</th> <th></th>	710	713.5	Turn-on time (sec)	MPE (dB)	
5	QPSK	1	0	23.85	24.08	23.87	25.5	0	
5	QPSK	1	12	23.92	24.01	24.00			
5	QPSK	1	24	23.93	23.90	23.90			
5	QPSK	12	0	22.82	23.07	23.07			
5	QPSK	12	7	22.87	22.94	23.01			
5	QPSK	12	13	22.84	22.96	22.85	24.5	1	
5	QPSK	25	0	22.84	23.08	23.08			
5	QPSK	25	12	22.84	23.09	23.08			
5	16QAM	1	0	23.95	23.99	23.98			
5	16QAM	1	12	23.14	23.21	23.20			
5	16QAM	1	24	23.18	23.25	23.20	23.5	2	
5	16QAM	12	0	21.80	21.82	21.88			
5	16QAM	12	7	21.82	21.89	21.81			
5	16QAM	12	13	22.00	22.10	22.00			
5	16QAM	25	0	21.88	21.93	21.88			
5	16QAM	1	0	22.04	22.09	22.07	23.5	2	
5	16QAM	12	0	22.09	22.04	22.00			
5	16QAM	12	7	22.09	22.09	22.00			
5	16QAM	12	13	20.95	21.01	20.92			
5	16QAM	25	0	20.86	20.88	20.86			
5	256QAM	1	0	19.42	19.56	19.52	20.5	5	
5	256QAM	1	12	19.41	19.58	19.54			
5	256QAM	1	24	19.28	19.49	19.45			
5	256QAM	12	0	19.32	19.42	19.15			
5	256QAM	12	7	19.13	19.32	19.20			
5	256QAM	12	13	19.31	19.30	19.21	20.5	5	
5	256QAM	25	0	19.23	19.30	19.07			

Band 26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turnup (s)	MPE (dB)
Frequency (MHz)				811.5	811.5	811.5	811.5		
15	QPSK	1	0	24.26	24.33	23.90		25.5	0
15	QPSK	1	37	24.12	23.98	23.82			
15	QPSK	1	74	24.07	24.05	23.87			
15	QPSK	36	0	23.05	23.14	23.04			
15	QPSK	36	20	23.01	23.08	23.03			
15	QPSK	36	36	23.04	23.02	23.01		24.5	1
15	QPSK	75	0	23.01	23.15	23.07			
15	16QAM	1	0	23.39	23.57	23.48			
15	16QAM	1	37	23.54	23.35	23.12			
15	16QAM	1	74	22.61	23.50	23.05			
15	16QAM	36	0	21.89	22.30	22.02		23.5	2
15	16QAM	36	20	21.91	21.97	22.07			
15	16QAM	36	36	22.05	21.99	22.00			
15	16QAM	75	0	22.00	22.19	22.00		23.0	2
15	16QAM	1	0	22.20	22.31	22.14			
15	16QAM	1	37	22.32	22.42	22.37			
15	16QAM	1	74	22.26	22.30	22.29			
15	16QAM	36	0	22.35	22.37	22.33			
15	16QAM	36	20	21.06	21.08	21.08		22.5	3
15	16QAM	36	36	21.08	21.07	21.07			
15	16QAM	75	0	20.92	21.00	21.04			
15	25QAM	1	0	19.38	19.40	19.33			
15	25QAM	1	37	19.42	19.39	19.31			
15	25QAM	1	74	19.39	19.29	19.20		20.5	5
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31		20.0	5
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25		20.5	5
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21		20.0	5
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35		20.5	5
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22		20.0	5
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25		20.5	5
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31		20.0	5
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25		20.5	5
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21		20.0	5
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35		20.5	5
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22		20.0	5
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25		20.5	5
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31		20.0	5
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25		20.5	5
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21		20.0	5
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35		20.5	5
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22		20.0	5
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25		20.5	5
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31		20.0	5
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25		20.5	5
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21		20.0	5
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35		20.5	5
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22		20.0	5
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25		20.5	5
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31		20.0	5
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25		20.5	5
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21		20.0	5
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35		20.5	5
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	36	19.38	19.35	19.31			
15	25QAM	75	74	19.29	19.30	19.25			
15	25QAM	36	0	19.35	19.42	19.22		20.0	5
15	25QAM	36	20	19.42	19.38	19.35			



Band 66_Ant 0

RF [MHz]	Modulation	RB Size	RB Offset	Power Low Mod Ch./Freq.	Power Mod Ch./Freq.	Power High Mod Ch./Freq.	Time-up int. (sec)	MPR (dB)		
Channel										
Frequency [MHz]										
20	QPSK	1	0	17.62	17.65	17.63	23	0		
20	QPSK	1	49	21.61	21.51	21.73				
20	QPSK	1	99	21.73	21.76	21.71	22	1		
20	QPSK	0	0	20.92	20.93	20.98				
20	QPSK	50	24	20.75	20.80	20.81	22	1		
20	QPSK	50	50	20.77	20.80	20.76				
20	16QAM	1	49	20.97	20.91	21.02	22	1		
20	16QAM	1	99	21.09	21.12	21.21				
20	16QAM	50	0	19.73	19.86	19.77	21	2		
20	16QAM	50	24	19.63	19.85	19.83				
20	16QAM	50	50	19.77	19.91	19.73	21	2		
20	16QAM	100	0	19.64	19.85	19.85				
20	64QAM	1	0	19.85	20.36	20.11	21	2		
20	64QAM	1	49	19.94	20.23	20.11				
20	64QAM	1	99	19.83	19.83	19.77	20	3		
20	64QAM	50	24	19.84	19.88	19.78				
20	64QAM	50	50	19.88	19.87	19.85	18	5		
20	64QAM	100	0	19.81	19.88	19.78				
20	256QAM	1	0	19.69	19.72	19.67	18	5		
20	256QAM	1	49	17.03	17.18	17.05				
20	256QAM	1	99	17.01	17.13	17.08	18	5		
20	256QAM	50	24	16.84	16.95	16.85				
20	256QAM	50	50	16.84	16.90	16.92	18	5		
20	256QAM	100	0	16.84	16.89	16.92				
20	256QAM	100	24	16.93	16.92	16.97	18	5		
20	256QAM	100	50	16.93	16.92	16.97				
Channel										
Frequency [MHz]										
20	QPSK	1	0	17.62	17.65	17.63	23	0		
20	QPSK	1	49	21.61	21.51	21.73				
20	QPSK	1	74	21.62	21.72	21.72	23	0		
20	QPSK	0	0	20.79	20.82	20.82				
20	QPSK	36	39	20.71	20.86	20.89	22	1		
20	QPSK	36	39	20.77	20.89	20.75				
20	16QAM	1	49	20.81	21.09	21.11	22	1		
20	16QAM	1	99	20.97	20.86	20.9				
20	16QAM	1	74	20.97	20.86	20.97	21	2		
20	16QAM	50	24	19.67	19.77	19.76				
20	16QAM	50	50	19.62	19.99	19.82	21	2		
20	16QAM	100	0	19.62	19.99	19.82				
20	64QAM	1	0	19.73	20.24	20.01	21	2		
20	64QAM	1	74	19.8	19.71	19.68				
20	64QAM	50	0	19.63	19.71	19.67	20	3		
20	64QAM	50	36	19.62	19.87	18.96				
20	64QAM	50	50	19.62	19.87	18.96	18	5		
20	64QAM	100	0	19.62	19.87	18.96				
20	256QAM	1	0	19.62	19.87	18.96	18	5		
20	256QAM	1	37	19.62	17.12	17.10				
20	256QAM	1	74	19.68	17.15	17.00	18	5		
20	256QAM	50	24	19.68	16.86	16.78				
20	256QAM	50	50	19.63	16.88	16.83	18	5		
20	256QAM	100	0	19.61	16.91	16.93				
20	256QAM	100	24	19.63	16.92	16.93	18	5		
20	256QAM	100	50	19.63	16.92	16.93				
Channel										
Frequency [MHz]										
20	QPSK	1	0	17.62	17.65	17.63	23	0		
20	QPSK	1	49	21.61	21.51	21.73				
20	QPSK	1	99	21.73	21.77	21.71	22	1		
20	QPSK	0	0	20.79	20.84	20.78				
20	QPSK	25	12	20.77	20.8	20.82	22	1		
20	QPSK	25	12	20.75	20.8	20.75				
20	16QAM	1	49	20.87	21.09	21.1	22	1		
20	16QAM	1	99	20.97	20.81	21.02				
20	16QAM	1	74	20.97	20.86	20.97	21	2		
20	16QAM	50	24	19.67	19.78	19.73				
20	16QAM	50	50	19.62	19.83	19.73	21	2		
20	16QAM	100	0	19.62	19.83	19.73				
20	64QAM	1	0	19.73	19.81	19.68	21	2		
20	64QAM	1	49	19.78	19.84	19.73				
20	64QAM	50	0	19.67	19.75	19.75	20	3		
20	64QAM	50	36	19.62	19.82	18.77				
20	64QAM	50	50	19.63	19.81	19.84	20	3		
20	64QAM	100	0	19.62	19.81	19.85				
20	256QAM	1	0	19.64	17.20	16.97	18	5		
20	256QAM	1	49	19.67	17.12	16.99				
20	256QAM	1	74	19.71	17.12	16.99	18	5		
20	256QAM	50	24	19.71	16.92	16.97				
20	256QAM	50	50	19.73	16.91	16.84	18	5		
20	256QAM	100	0	19.74	16.94	16.95				
20	256QAM	100	24	19.74	16.90	16.92	18	5		
20	256QAM	100	50	19.74	16.92	16.96				
20	256QAM	100	50	19.74	16.92	16.96	18	5		
20	256QAM	100	50	19.74	16.92	16.96				
Channel										
Frequency [MHz]										
20	QPSK	1	0	17.62	17.65	17.63	23	0		
20	QPSK	1	49	21.61	21.51	21.73				
20	QPSK	1	99	21.73	21.77	21.71	22	1		
20	QPSK	0	0	20.79	20.84	20.78				
20	QPSK	25	12	20.77	20.8	20.82	22	1		
20	QPSK	25	12	20.75	20.8	20.75				
20	16QAM	1	49	20.87	21.09	21.05	22	1		
20	16QAM	1	99	20.97	20.82	20.95				
20	16QAM	1	74	20.97	20.86	20.95	21	2		
20	16QAM	50	24	19.68	19.83	19.73				
20	16QAM	50	50	19.67	19.82	19.74	21	2		
20	16QAM	100	0	19.66	19.83	19.73				
20	64QAM	1	0	19.74	20.13	19.97	21	2		
20	64QAM	1	49	19.77	19.7	19.64				
20	64QAM	50	0	19.66	19.76	19.75	20	3		
20	64QAM	50	36	19.63	19.83	19.68				
20	64QAM	50	50	19.68	19.8	19.51	20	3		
20	64QAM	100	0	19.69	17.12	16.93				
20	256QAM	1	0	19.69	17.13	16.93	18	5		
20	256QAM	1	49	19.70	16.90	16.89				
20	256QAM	1	74	19.78	16.91	16.78	18	5		
20	256QAM	50	24	19.74	16.92	16.96				
20	256QAM	50	50	19.77	16.91	16.79	18	5		
20	256QAM	100	0	19.74	16.92	16.96				
20	256QAM	100	24	19.77	16.92	16.96	18	5		
20	256QAM	100	50	19.77	16.92	16.96				
Channel										
Frequency [MHz]										
20	QPSK	1	0	17.62	17.65	17.63	23	0		
20	QPSK	1	49	21.61	21.51	21.73				
20	QPSK	1	99	21.73	21.74	21.64	23	0		
20	QPSK	0	0	20.79	20.91	20.9				
20	QPSK	8	4	20.7	20.8	20.77	22	1		
20	QPSK	8	7	20.78	20.86	20.67				
20	QPSK	15	0	20.73	20.82	20.82	22	1		
20	QPSK	15	0	20.78	21.17	20.77				
20	16QAM	1	49	20.94	20.9	20.95	22	1		
20	16QAM	1	99	21.06	21.08	21.09				
20	16QAM	8	0	19.98	19.96	19.74	21	2		
20	16QAM	8	4	19.98	19.97	19.73				
20	16QAM	15	0	19.97	19.91	19.71	21	2		
20	16QAM	15	0	19.83	19.8	19.59				
20	16QAM	15	4	19.86	20.12	20.06	21	2		
20	16QAM	15	4	19.98	20.25	19.94				
20	64QAM	1	0	19.68	19.77	19.76	20	3		
20	64QAM	1	49	19.82	19.82	19.77				
20	64QAM	8	4	19.87	19.81	19.67	20	3		
20	64QAM	8	7	19.85	19.84	19.59				
20	64QAM	15	0	19.83	19.83	19.7	20	3		
20	64QAM	15	0	17.04	16.99	16.98				
20	256QAM	1	0	17.07	17.19	17.08	18	5		
20	256QAM	1	49	17.06	17.04	17.07				
20	256QAM	8	0	16.90	16.94	16.91	18	5		
20	256QAM	8	4	16.81	16.85	16.76				
20	256QAM	15	0	16.81	16.85	16.76	18	5		
20	256QAM	15	0	16.88	16.93	16.79				
20	256QAM	15	4	16.88	16.93	16.79	18	5		
20	256QAM	15	4	16.88	16.93	16.79				
Channel										
Frequency [MHz]										
20	QPSK	1	0	21.61	21.62	21.63	24	0		
20	QPSK	1	3	21.56	21.59	21.64				
20	QPSK	1	6	21.54	21.60	21.61	23	0		
20	QPSK	1	9	21.6	21.62	21.60				
20	QPSK	3	1	21.67	21.91	21.82	22	1		
20	QPSK	3	4	21.69	21.91	21.87				
20	16QAM	1	0	20.87	20.87	20.87	22	1		
20	16QAM	1	3	20.77	21.23	21.21				
20	16QAM	1	6	20.84	20.84	20.84	22	1		
20	16QAM	1	9	21.02	21.08	20.91				
20	16QAM	3	0	20.8	20.8	20.73	21	2		
20	16QAM	3	3	20.87	20.83	20.67				
20	16QAM	6	0	19.62	19.88	19.8	21	2		
20	16QAM	6	3	19.76	20.22	19.98				
20	16QAM	1	0	19.87	19.75	19.72	21	2		
20	16QAM	1	3	19.87	19.88	19.86				
20	16QAM	3	0	19.54	19.88	19.55	20	3		
20	16QAM	3	3	19.99	17.01	16.93				
20	256QAM	1	0	17.00	17.14	17.08	18	5		
20	256QAM	1	3	17.02	17.18	17.07				
20	256QAM	3	0	16.77	16.94	16.78	18	5		
20	256QAM	3	3	16.89	16.90	16.75				
20	256QAM	6	0	16.84	16.95	16.83	18	5		
20	256QAM	6	3	16.85	16.93	16.78				



Band 38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
37850 38000 38150									
20	QPSK	1	0	22.76	22.89	22.77			
20	QPSK	1	49	22.52	22.62	22.58	24	0	
20	QPSK	1	99	22.60	22.69	22.65			
20	QPSK	50	0	21.71	21.78	21.70			
20	QPSK	50	24	21.62	21.74	21.68	23	1	
20	QPSK	50	49	21.62	21.74	21.68			
20	QPSK	100	0	21.82	21.85	21.88			
20	16QAM	1	5	21.70	21.62	21.79	23	1	
20	16QAM	1	49	21.72	22.02	21.75			
20	16QAM	1	99	21.71	21.82	21.77			
20	16QAM	50	0	20.89	20.86	20.89			
20	16QAM	50	24	20.81	20.75	20.77	22	2	
20	16QAM	50	50	20.85	20.83	20.77			
20	16QAM	100	0	20.87	20.80	20.79			
20	64QAM	1	5	20.55	20.72	20.57			
20	64QAM	1	49	20.61	20.69	20.59	22	2	
20	64QAM	1	99	20.56	20.73	20.65			
20	64QAM	50	0	19.80	19.73	19.71			
20	64QAM	50	24	19.80	19.77	19.77	21	3	
20	64QAM	50	50	19.80	19.79	19.73			
20	64QAM	100	0	19.88	19.80	19.82			
20	256QAM	1	5	17.81	17.57	17.55			
20	256QAM	1	49	17.85	17.56	17.58	19	5	
20	256QAM	1	99	17.88	17.58	17.47			
20	256QAM	50	0	17.83	17.74	17.73			
20	256QAM	50	24	17.78	17.76	17.76	19	5	
20	256QAM	50	50	17.72	17.64	17.60			
20	256QAM	100	0	17.81	17.69	17.70			
Channel									
Frequency (MHz)									
37850 38000 38175									
15	QPSK	1	0	22.73	22.75	22.73			
15	QPSK	1	37	22.56	22.35	22.54	24	0	
15	QPSK	1	74	22.53	22.43	22.49			
15	QPSK	1	111	21.68	21.71	21.68			
15	QPSK	36	20	21.52	21.48	21.68	23	1	
15	QPSK	36	56	21.66	21.62	21.63			
15	16QAM	1	5	21.80	21.57	21.57			
15	16QAM	1	37	21.82	21.53	21.70	23	1	
15	16QAM	1	74	21.91	21.73	21.70			
15	16QAM	36	0	20.77	20.54	20.64			
15	16QAM	36	20	20.35	20.35	20.35	22	2	
15	16QAM	36	56	20.91	20.59	20.69			
15	16QAM	75	0	20.62	20.58	20.60			
15	64QAM	1	5	20.81	20.54	20.39			
15	64QAM	1	37	20.81	20.42	20.52	22	2	
15	64QAM	1	74	20.78	20.55	20.63			
15	64QAM	36	0	19.85	19.50	19.64			
15	64QAM	36	20	19.82	19.62	19.64	21	3	
15	64QAM	36	56	19.85	19.79	19.79			
15	64QAM	75	0	19.75	19.45	19.75			
15	256QAM	1	5	17.43	17.57	17.52			
15	256QAM	1	37	17.43	17.47	17.50	19	5	
15	256QAM	1	74	17.54	17.40	17.50			
15	256QAM	36	0	17.71	17.74	17.54			
15	256QAM	36	20	17.72	17.67	17.69	19	5	
15	256QAM	36	56	17.83	17.69	17.58			
15	256QAM	75	0	17.65	17.59	17.47			
Channel									
Frequency (MHz)									
38175 38300 38350									
10	QPSK	1	0	22.82	22.80	22.82			
10	QPSK	1	25	22.46	22.38	22.45	24	0	
10	QPSK	1	49	22.54	22.44	22.52			
10	QPSK	1	73	21.72	21.75	21.68			
10	QPSK	25	12	21.56	21.49	21.60	23	1	
10	QPSK	25	25	21.76	21.64	21.72			
10	QPSK	50	0	21.70	21.74	21.64			
10	16QAM	1	0	22.06	21.85	21.89			
10	16QAM	1	25	21.80	21.59	21.86	23	1	
10	16QAM	1	49	21.93	21.60	21.79			
10	16QAM	25	0	20.87	20.57	20.70			
10	16QAM	25	1	20.89	20.53	20.69	22	2	
10	16QAM	25	25	20.88	20.63	20.66			
10	16QAM	50	0	20.61	20.58	20.60			
10	64QAM	1	0	20.86	20.54	20.59			
10	64QAM	1	25	20.87	20.39	20.52	22	2	
10	64QAM	1	49	20.75	20.50	20.61			
10	64QAM	25	0	19.78	19.42	19.74			
10	64QAM	25	12	19.73	19.63	19.64	21	3	
10	64QAM	25	25	19.71	19.54	19.63			
10	64QAM	50	0	19.82	19.57	19.60			
10	256QAM	1	0	17.41	17.54	17.44			
10	256QAM	1	49	17.41	17.48	17.56	19	5	
10	256QAM	1	99	17.53	17.41	17.49			
10	256QAM	25	0	17.88	17.82	17.58			
10	256QAM	25	12	17.74	17.61	17.66	19	5	
10	256QAM	25	25	17.58	17.79	17.52			
10	256QAM	50	0	17.48	17.65	17.56			
Channel									
Frequency (MHz)									
38350 38500 38575									
5	QPSK	1	0	22.84	22.71	22.54			
5	QPSK	1	12	22.57	22.32	22.45	24	0	
5	QPSK	1	24	22.48	22.51	22.48			
5	QPSK	12	0	21.83	21.73	21.86			
5	QPSK	12	7	21.59	21.49	21.59	23	1	
5	QPSK	12	13	21.70	21.62	21.62			
5	QPSK	25	0	21.81	21.78	21.69			
5	16QAM	1	0	21.88	21.54	21.58			
5	16QAM	1	12	21.93	21.52	21.80	23	1	
5	16QAM	1	24	21.91	21.73	21.73			
5	16QAM	12	0	20.74	20.59	20.62			
5	16QAM	12	7	20.69	20.36	20.56	22	2	
5	16QAM	12	13	20.83	20.36	20.70			
5	16QAM	25	0	20.73	20.40	20.56			
5	64QAM	1	0	20.53	20.50	20.47			
5	64QAM	1	12	20.61	20.40	20.54	22	2	
5	64QAM	1	24	20.70	20.55	20.57			
5	64QAM	12	0	19.70	19.43	19.60			
5	64QAM	12	7	19.63	19.40	19.55	21	3	
5	64QAM	12	13	19.82	19.65	19.62			
5	64QAM	25	0	19.75	19.54	19.60			
5	256QAM	1	0	17.42	17.54	17.50			
5	256QAM	1	12	17.44	17.46	17.54	19	5	
5	256QAM	1	24	17.54	17.52	17.52			
5	256QAM	12	0	17.59	17.82	17.64			
5	256QAM	12	7	17.75	17.71	17.70	19	5	
5	256QAM	12	13	17.64	17.73	17.52			
5	256QAM	25	0	17.38	17.59	17.55			

Band 38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
37850 38000 38150									
20	QPSK	1	0	23.33	23.35	23.18			
20	QPSK	1	49	23.24	23.20	23.29	25	0	
20	QPSK	1	99	23.02	23.12	23.06			
20	QPSK	50	0	22.41	22.45	22.32			
20	QPSK	50	24	22.34	22.26	22.37	24	1	
20	QPSK	50	50	22.40	22.24	22.31			
20	QPSK	100	0	22.34	22.35	22.30			
20	16QAM	1	5	22.50	22.22	22.43	24	1	
20	16QAM	1	49	22.50	22.37	22.34			
20	16QAM	1	99	22.50	22.69	22.57			
20	16QAM	50	0	21.34	21.21	21.26			
20	16QAM	50	24	21.40	21.23	21.37	23	2	
20	16QAM	50	50	21.43	21.35	21.42			
20	16QAM	100	0	21.40	21.35	21.35			
20	64QAM	1	5	21.51	21.35	21.40			
20	64QAM	1	49	21.59	21.30	21.58	23	2	
20	64QAM	1	99	21.48	21.57	21.55			
20	64QAM	50	0	20.53	20.44	20.58			
20	64QAM	50	24	20.55	20.37	20.51	22	3	
20	64QAM	50	50	20.60	20.49	20.58			
20	64QAM	100	0	20.66	20.42	20.55			
20	256QAM	1	5	18.25	18.28	18.10			
20	256QAM	1	49	18.20	18.32	18.24	20	5	
20	256QAM	1	99	18.24	18.31	18.16			
20	256QAM	50	24	18.26	18.47	18.27			
20	256QAM	50	50	18.32	18.52	18.45			
20	256QAM	100	0	18.38	18.37	18.10			
Channel									
Frequency (MHz)									
37850 38000 38175									
15	QPSK	1	0	23.33	23.35	23.12			
15	QPSK	1	23	23.24	23.08	23.18	25	0	
15	QPSK	1	47	23.02	23.12	23.07			
15	QPSK	36	0	22.40	22.44	22.32			
15	QPSK	36	20	22.34	22.13	22.25	24	1	
15	QPSK	36	44	22.34	22.14	22.23			
15	QPSK	78	0	22.30	22.22	22.25			
15	16QAM	1	0	22.30	22.22	22.20			
15	16QAM	1	23	22.22	22.27	22.45	24	1	
15	16QAM	1	47	22.28	22.55	22.57			
15	16QAM	36	0	21.43	21.31	21.21			
15	16QAM	36	20	21.33	21.18	21.27	23	2	
15	16QAM	36	44	21.29	21.32	21.38			
15	16QAM	78	0	21.21	21.33	21.28			
15	64QAM	1	5	21.44	21.31	21.37			
15	64QAM	1	27	21.50	21.36	21.44	23	2	
15	64QAM	1	49	21.40	21.24	21.53			
15	64QAM	36	0	20.39	20.31	20.53			
15	64QAM	36	20	20.52	20.36	20.48	22	3	
15	64QAM	36	44	20.59	20.48	20.48			
15	64QAM	78	0	20.55	20.41	20.48			
15	256QAM	1	5	18.23	18.27	18.05			
15	256QAM	1	27	18.09	18.27	18.22	20	5	
15	256QAM	1	49	18.17	18.21	18.09			
15	256QAM	36	0	18.34	18.52	18.36			
15	256QAM	36	20	18.13	18.48	18.18	20	5	
15	256QAM	36	44	18.24	18.46	18.35			
15	256QAM	78	0	18.18	18.37	18.10			
Channel									
Frequency (MHz)									
37775 38000 38225									
5	QPSK	1	0	23.31	23.32	23.12			
5	QPSK	1	25	23.17	23.07	23.26	25	0	
5	QPSK	1	51	22.95	23.05	23.21			
5	QPSK	20	0	22.38	22.38	22.38	23	0	
5	QPSK	20	12	22.28	22.16	22.14			
5	QPSK	20	24	22.37	22.19	22.23	24	1	
5	QPSK	60	0	22.32	22.34	22.25			
5	16QAM	1	0	22.32	22.22	22.27			
5	16QAM	1	25	22.50	22.34	22.28	24	1	
5	16QAM	1	49	22.58	22.57	22.37			
5	16QAM	20	0	21.32	21.22	21.23			
5	16QAM	20	12	21.40	21.22	21.33	23	2	
5	16QAM	20	24	21.31	21.11	21.24			
5	64QAM	1	5	21.43	21.34	21.31			
5	64QAM	1	26	21.52	21.20	21.42	23	2	
5	64QAM	1	50	21.39	21.25	21.41			
5	64QAM	20	0	20.52	20.37	20.45			
5	64QAM	20	12	20.61	20.43	20.41	22	3	
5	64QAM	20	24	20.54	20.39	20.45			
5	64QAM	50	0	20.67	20.36	20.47			
5	256QAM	1	5	18.21	18.24	18.06			
5	256QAM	1	26	18.22	18.32	18.13	20	5	
5	256QAM	1	49	18.20	18.20	18.15			
5	256QAM	20	0	18.18	18.36	18.36			
5	256QAM	20	12	18.26	18.47	18.26	20	5	
5	256QAM	20	24	18.25	18.24	18.24			
5	256QAM	50	0	18.16	18.34	18.34			
Channel									
Frequency (MHz)									
37775 38000 38225									
5	QPSK	1	0	23.19	23.23	23.09			
5	QPSK	1	12	23.13	23.07	23.29	25	0	
5	QPSK	1	25	23.19	23.12	23.23			
5	QPSK	12	0	22.35	22.39	22.24			
5	QPSK	12	7	22.23	22.15	22.21	24	1	
5	QPSK	12	13	22.28	22.15	22.23			
5	QPSK	20	0	22.34	22.28	22.27			
5	QPSK	20	12	22.41	22.28	22.29	24	1	
5	16QAM	1	12	22.58	22.44	22.32	24	1	
5	16QAM	1	24	22.54	22.56	22.27			
5	16QAM	12	0	21.32	21.22	21.16			
5	16QAM	12	7	21.31	21.21	21.23	23	2	
5	16QAM	12	13	21.34	21.21	21.40			
5	16QAM	20	0	21.19	21.19	21.19			
5	64QAM	1	5	21.45	21.25	21.45	23	2	
5	64QAM	1	22	21.54	21.22	21.49			
5	64QAM	1	24	21.39	21.39	21.43			
5	64QAM	12	0	20.41	20.31	20.49	22	3	
5	64QAM	12	12	20.50	20.40	20.43			
5	64QAM	12	13	20.57	20.44	20.49			
5	64QAM	20	0	20.66	20.41	20.53			
5	64QAM	20	12	20.72	20.48	20.52	20	5	
5	256QAM	1	12	18.20	18.32	18.10			
5	256QAM	1	26	18.21	18.34	18.03	20	5	
5	256QAM	1	49	18.20	18.57	18.42			
5	256QAM	12	0	18.18	18.34	18.22			
5	256QAM	12	13	18.23	18.34	18.22	20	5	
5	256QAM	20	0	18.18	18.35	18.31			



Band 38_Ant 3											
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up Int (dBm)	MPE (dB)			
Channel											
Frequency (MHz)				39760	39800	39840					
20	QPSK	1	0	24.51	24.50	24.50	25.7	0			
20	QPSK	1	49	24.46	24.44	24.47					
20	QPSK	1	99	24.47	24.43	24.54					
20	QPSK	50	0	23.68	23.70	23.78					
20	QPSK	50	24	23.60	23.70	23.68	24.7	1			
20	QPSK	50	49	23.68	23.70	23.67					
20	QPSK	100	0	23.65	23.74	23.68					
20	16QAM	1	0	23.59	23.64	23.69					
20	16QAM	1	49	23.58	23.66	23.73	24.7	1			
20	16QAM	1	99	23.73	23.71	23.69					
20	16QAM	50	0	22.59	22.52	22.74					
20	16QAM	50	24	22.57	22.60	22.73					
20	16QAM	50	50	22.70	22.72	22.68	23.7	2			
20	16QAM	100	0	22.54	22.56	22.61					
20	16QAM	1	0	22.45	22.55	22.52					
20	16QAM	1	49	22.51	22.69	22.66					
20	16QAM	1	99	22.70	22.69	22.65	23.7	2			
20	16QAM	50	0	21.62	21.64	21.69					
20	16QAM	50	24	21.69	21.61	21.65					
20	16QAM	50	50	21.62	21.64	21.72					
20	16QAM	100	0	21.61	21.69	21.64	22.7	3			
20	256QAM	1	0	19.48	19.40	19.36					
20	256QAM	1	49	19.52	19.49	19.43					
20	256QAM	1	99	19.68	19.59	19.50					
20	256QAM	50	0	19.54	19.54	19.51	20.7	5			
20	256QAM	50	24	19.57	19.50	19.55					
20	256QAM	50	50	19.69	19.61	19.47					
20	256QAM	100	0	19.62	19.63	19.63					
Channel											
Frequency (MHz)				39765	39805	39815	Time-up Int (dBm)	MPE (dB)			
15	QPSK	1	0	24.73	24.53	24.43	25.7	0			
15	QPSK	1	37	24.52	24.43	24.44					
15	QPSK	1	74	24.48	24.44	24.44					
15	QPSK	36	0	23.57	23.69	23.65					
15	QPSK	36	20	23.68	23.70	23.61	24.7	1			
15	QPSK	36	36	23.62	23.69	23.61					
15	QPSK	75	0	23.58	23.71	23.77					
15	16QAM	1	0	23.64	23.67	23.78					
15	16QAM	1	37	23.72	23.70	23.66	24.7	1			
15	16QAM	1	74	23.62	23.71	23.71					
15	16QAM	36	0	22.62	22.61	22.68					
15	16QAM	36	20	22.65	22.76	22.65					
15	16QAM	36	39	22.65	22.76	22.65	23.7	2			
15	16QAM	75	0	22.54	22.55	22.55					
15	16QAM	75	0	22.59	22.60	22.58					
15	16QAM	1	37	22.67	22.67	22.61					
15	16QAM	1	74	22.58	22.59	22.51	22.7	3			
15	16QAM	36	0	21.63	21.60	21.68					
15	16QAM	36	20	21.68	21.66	21.79					
15	16QAM	36	39	21.62	21.66	21.77					
15	16QAM	75	0	21.55	21.65	21.58	20.7	5			
15	256QAM	1	0	19.45	19.50	19.52					
15	256QAM	1	37	19.48	19.48	19.43					
15	256QAM	1	74	19.65	19.59	19.51					
15	256QAM	36	0	19.60	19.37	19.54	20.7	5			
15	256QAM	36	20	19.63	19.48	19.56					
15	256QAM	36	39	19.79	19.65	19.60					
15	256QAM	75	0	19.46	19.40	19.58					
Channel											
Frequency (MHz)				39760	39800	39820	Time-up Int (dBm)	MPE (dB)			
10	QPSK	1	0	24.73	24.53	24.43	25.7	0			
10	QPSK	1	25	24.52	24.54	24.53					
10	QPSK	1	49	24.55	24.49	24.48					
10	QPSK	25	0	23.52	23.69	23.69					
10	QPSK	25	12	23.62	23.62	23.67	24.7	1			
10	QPSK	25	25	23.72	23.60	23.70					
10	QPSK	25	37	23.67	23.69	23.67					
10	16QAM	1	0	23.63	23.69	23.76					
10	16QAM	1	0	23.63	23.69	23.76	24.7	1			
10	16QAM	1	25	23.75	23.73	23.78					
10	16QAM	1	49	23.72	23.83	23.71					
10	16QAM	25	0	22.58	22.58	22.65					
10	16QAM	25	12	22.65	22.59	22.72	23.7	2			
10	16QAM	25	25	22.68	22.75	22.63					
10	16QAM	25	37	22.57	22.64	22.51					
10	16QAM	1	49	22.67	22.65	22.63					
10	16QAM	25	0	21.65	21.50	21.63	22.7	3			
10	16QAM	25	12	21.68	21.71	21.71					
10	16QAM	25	25	21.76	21.65	21.74					
10	16QAM	25	37	21.62	21.68	21.76					
10	16QAM	25	0	22.58	22.58	22.66	20.7	5			
10	256QAM	1	0	19.51	19.53	19.61					
10	256QAM	1	49	19.66	19.55	19.61					
10	256QAM	25	0	18.51	19.44	19.60					
10	256QAM	25	12	19.48	19.62	19.56	20.7	5			
10	256QAM	25	25	19.54	19.61	19.59					
10	256QAM	50	0	19.59	19.50	19.48					
10	256QAM	50	0	19.62	19.50	19.53					
Channel											
Frequency (MHz)				39775	39805	39825	Time-up Int (dBm)	MPE (dB)			
5	QPSK	1	0	24.57	24.48	24.44	25.7	0			
5	QPSK	1	12	24.53	24.42	24.52					
5	QPSK	1	24	24.52	24.42	24.44					
5	QPSK	12	0	23.56	23.67	23.59					
5	QPSK	12	7	23.63	23.68	23.67	24.7	1			
5	QPSK	12	13	23.63	23.68	23.67					
5	QPSK	12	19	23.67	23.69	23.72					
5	QPSK	25	0	23.67	23.70	23.76					
5	16QAM	1	0	23.63	23.69	23.76	24.7	1			
5	16QAM	1	12	23.71	23.71	23.78					
5	16QAM	1	24	23.76	23.79	23.77					
5	16QAM	12	0	22.63	22.56	22.72					
5	16QAM	12	7	22.69	22.63	22.65	23.7	2			
5	16QAM	12	13	22.64	22.66	22.71					
5	16QAM	12	19	22.68	22.68	22.68	23.7	2			
5	16QAM	1	0	21.67	21.60	21.67					
5	16QAM	1	12	21.68	21.71	21.74					
5	16QAM	12	13	21.64	21.71	21.69					
5	16QAM	25	0	21.56	21.61	21.63	22.7	3			
5	16QAM	25	12	21.58	21.62	21.67					
5	256QAM	1	0	19.52	19.52	19.53					
5	256QAM	1	12	19.59	19.49	19.61					
5	256QAM	1	24	19.65	19.54	19.60	20.7	5			
5	256QAM	12	0	19.57	19.52	19.57					
5	256QAM	12	7	19.59	19.57	19.58					
5	256QAM	12	13	19.60	19.57	19.56					
5	256QAM	12	19	19.57	19.50	19.51					

Band 41_Ant 2													
RW [MHz]	Modulation	RB Size	RB Offset	Power Ch / Freq.	Power Ch / Freq.	Power Ch / Freq.	Power Ch / Freq.	Power Ch / Freq.	Power Ch / Freq.	Turn-up test (dBm)	MPR (dB)		
Channel													
Frequency (MHz)				38750	40188	40620	41056	41490					
20	QPSK	1	0	24.46	24.71	24.73	24.53	24.64					
20	QPSK	1	40	24.48	24.51	24.58	24.49	24.8		25.7	0		
20	QPSK	1	80	24.4	24.51	24.57	24.44	24.82					
20	QPSK	50	0	23.66	23.61	23.77	23.55	23.67					
20	QPSK	50	24	23.54	23.67	23.69	23.56	23.8		24.7	1		
20	QPSK	50	48	23.63	23.5	23.62	23.55	23.82					
20	QPSK	100	0	23.42	23.64	23.66	23.58	23.54					
20	16QAM	1	0	23.46	23.36	23.53	23.42	23.47		24.7	1		
20	16QAM	1	40	23.38	23.57	23.38	23.5	23.63					
20	16QAM	1	80	23.42	23.72	23.39	23.37	23.37					
20	16QAM	50	0	22.48	22.63	22.46	22.47	22.54					
20	16QAM	50	24	22.46	22.61	22.48	22.56	22.58		23.7	2		
20	16QAM	50	50	22.59	22.66	22.54	22.61	22.57					
20	16QAM	100	0	22.49	22.65	22.56	22.45	22.44					
20	16QAM	100	1	22.5	22.41	22.3	22.23	22.33					
20	16QAM	1	40	22.54	22.42	22.3	22.34	22.33		23.7	2		
20	16QAM	1	80	22.38	22.56	22.33	22.37	22.38					
20	16QAM	50	0	21.36	21.65	21.49	21.49	21.55					
20	16QAM	50	24	21.43	21.65	21.39	21.41	21.45					
20	16QAM	50	50	21.51	21.68	21.52	21.58	21.49		22.7	3		
20	16QAM	100	0	21.42	21.66	21.52	21.39	21.54					
20	256QAM	1	0	19.71	19.65	19.53	19.43	19.23					
20	256QAM	1	40	19.71	19.69	19.43	19.37	19.41		20.7	5		
20	256QAM	1	80	19.51	19.63	19.49	19.32	19.32					
20	256QAM	50	0	19.67	19.65	19.49	19.38	19.28					
20	256QAM	50	24	19.78	19.58	19.41	19.43	19.42		20.7	5		
20	256QAM	50	50	19.71	19.51	19.47	19.35	19.39					
20	256QAM	100	0	19.35	19.53	19.41	19.41	19.41					
Channel													
Frequency (MHz)				38725	40173	40620	41056	41515		Turn-up test (dBm)	MPR (dB)		
	Power			24.58	24.62	24.71	24.51	24.7					
16	QPSK	1	0	24.58	24.62	24.71	24.51	24.7					
16	QPSK	1	37	24.43	24.41	24.45	24.49	24.64		25.70	0		
16	QPSK	1	74	24.4	24.45	24.54	24.51	24.62					
16	QPSK	36	0	23.6	23.67	23.67	23.55	23.65					
16	QPSK	36	20	23.52	23.64	23.61	23.52	23.56		24.7	1		
16	QPSK	36	40	23.63	23.54	23.61	23.55	23.62					
16	QPSK	75	0	23.41	23.65	23.56	23.62	23.54					
16	16QAM	1	0	23.34	23.33	23.43	23.38	23.49					
16	16QAM	1	40	23.62	23.46	23.51	23.46	23.41		24.7	1		
16	16QAM	1	74	23.4	23.65	23.39	23.53	23.45					
16	16QAM	36	0	22.48	22.52	22.33	22.46	22.59					
16	16QAM	36	20	22.41	22.52	22.35	22.45	22.51		23.7	2		
16	16QAM	36	36	22.56	22.57	22.41	22.55	22.53					
16	16QAM	75	0	22.42	22.52	22.45	22.47	22.53					
16	16QAM	1	37	22.51	22.37	22.25	22.35	22.3		23.7	2		
16	16QAM	1	74	22.54	22.42	22.16	22.35	22.22					
16	16QAM	36	0	21.29	21.66	21.41	21.51	21.48					
16	16QAM	36	20	21.39	21.54	21.38	21.49	21.58		22.7	3		
16	16QAM	36	36	21.52	21.57	21.41	21.52	21.45					
16	16QAM	75	0	21.41	21.45	21.44	21.51	21.5					
16	256QAM	1	0	19.67	19.46	19.44	19.38	19.45		20.7	5		
16	256QAM	1	37	19.61	19.38	19.35	19.45	19.46					
16	256QAM	1	74	19.74	19.49	19.57	19.43	19.48					
16	256QAM	36	0	19.63	19.57	19.28	19.29	19.42					
16	256QAM	36	20	19.65	19.47	19.34	19.42	19.34		20.7	5		
16	256QAM	36	36	19.76	19.51	19.45	19.46	19.38					
16	256QAM	75	0	19.64	19.46	19.43	19.38	19.42					
Channel													
Frequency (MHz)				40010	40160	40620	41056	41540		Turn-up test (dBm)	MPR (dB)		
	Power			24.58	24.64	24.6	24.58	24.55					
20	QPSK	1	0	24.58	24.64	24.6	24.58	24.55					
20	QPSK	1	25	24.37	24.44	24.55	24.55	24.55		25.70	0		
20	QPSK	1	49	24.38	24.47	24.48	24.44	24.63					
20	QPSK	25	0	23.65	23.47	23.77	23.62	23.67					
20	QPSK	25	12	23.46	23.59	23.63	23.56	23.64		24.7	1		
20	QPSK	25	25	23.39	23.38	23.62	23.55	23.54					
20	QPSK	50	0	23.38	23.36	23.67	23.51	23.62					
20	16QAM	1	0	23.47	23.3	23.46	23.43	23.52		24.7	1		
20	16QAM	1	25	23.38	23.44	23.27	23.43	23.31					
20	16QAM	1	49	23.3	23.64	23.29	23.32	23.48					
20	16QAM	25	0	22.4	22.51	22.34	22.54	22.57					
20	16QAM	25	12	22.36	22.53	22.44	22.46	22.55		23.7	2		
20	16QAM	25	25	22.45	22.62	22.48	22.5	22.52					
20	16QAM	50	0	22.41	22.58	22.44	22.46	22.44					
20	16QAM	50	12	22.38	22.39	22.34	22.32	22.28					
20	16QAM	1	25	22.13	22.25	22.28	22.28	22.3		23.7	2		
20	16QAM	1	49	22.27	22.55	22.23	22.34	22.28					
20	16QAM	25	0	21.3	21.68	21.39	21.39	21.44					
20	16QAM	25	12	21.37	21.55	21.27	21.45	21.45					
20	16QAM	25	25	21.43	21.67	21.44	21.55	21.46		22.7	3		
20	16QAM	50	0	21.4	21.51	21.45	21.46	21.57					
20	256QAM	1	0	19.71	19.54	19.47	19.55	19.41					
20	256QAM	1	25	19.66	19.56	19.33	19.33	19.47		20.7	5		
20	256QAM	1	49	19.73	19.54	19.29	19.37	19.47					
20	256QAM	25	0	19.71	19.52	19.34	19.32	19.35					
20	256QAM	25	12	19.63	19.46	19.37	19.44	19.33		20.7	5		
20	256QAM	25	25	19.65	19.45	19.36	19.37	19.42					
20	256QAM	50	0	19.68	19.42	19.51	19.48	19.34					
Channel													
Frequency (MHz)				3687.5	36146	40620	41056	41665		Turn-up test (dBm)	MPR (dB)		
	Power			24.47	24.66	24.6	24.54	24.64					
5	QPSK	1	0	24.47	24.66	24.6	24.54	24.64					
5	QPSK	1	12	24.39	24.51	24.49	24.51	24.62		25.70	0		
5	QPSK	1	24	24.3	24.39	24.56	24.55	24.56					
5	QPSK	12	0	23.64	23.62	23.64	23.57	23.66					
5	QPSK	12	7	23.52	23.51	23.61	23.55	23.62		24.7	1		
5	QPSK	12	13	23.39	23.4	23.56	23.49	23.51					
5	QPSK	25	0	23.38	23.5	23.63	23.49	23.52					
5	16QAM	1	0	23.42	23.24	23.39	23.43	23.42					
5	16QAM	1	12	23.37	23.54	23.33	23.42	23.42		24.7	1		
5	16QAM	1	24	23.4	23.71	23.57	23.44	23.37					
5	16QAM	12	0	22.57	22.51	22.42	22.44	22.59					
5	16QAM	12	7	22.36	22.6	22.43	22.44	22.62		23.7	2		
5	16QAM	12	13	22.52	22.64	22.48	22.53	22.58					
5	16QAM	25	0	22.36	22.62	22.56	22.43	22.54					
5	16QAM	1	0	22.3	22.4	22.28	22.3	22.3		23.7	2		
5	16QAM	1	12	22.24	22.35	22.19	22.25	22.3					
5	16QAM	1	24	22.14	22.49	22.25	22.31	22.36					
5	16QAM	12	0	21.28	21.55	21.38	21.51	21.6					
5	16QAM	12	7	21.4	21.66	21.33	21.47	21.58		22.7	3		



Reduced Power for DSI 0

TAS0									
Band		Band Average Power (dBm)		Tune-up		Frame Average Power (dBm)		Tune-up	
TX Channel		Limit		Limit		Limit		Limit	
Frequency (MHz)	834.2	834.4	844.8	(dBm)	834.2	834.4	844.8	(dBm)	
DSM0 1 Tx ant	32.62	33.16	33.69	34.53	23.88	24.16	24.63	25.00	
OPRS 1 Tx ant	32.07	33.15	33.65	34.00	23.97	24.16	24.02	25.00	
OPRS 2 Tx ant	29.80	30.11	29.01	31.00	23.89	24.11	23.91	25.00	
OPRS 3 Tx ant	27.94	28.08	27.93	29.00	23.88	23.82	23.87	24.74	
OPRS 4 Tx ant	26.50	26.87	26.59	27.50	23.50	23.87	23.58	24.50	
EDGE 1 Tx ant	26.54	26.69	26.38	26.99	17.44	17.69	17.38	18.00	
EDGE 2 Tx ant	24.18	24.19	24.19	25.00	16.16	16.19	16.19	16.00	
EDGE 3 Tx ant	22.12	22.19	22.27	23.00	17.86	17.93	18.01	18.74	
EDGE 4 Tx ant	20.97	20.85	20.92	21.00	17.87	17.85	17.82	18.00	

TAS0									
Band		Band Average Power (dBm)		Tune-up		Frame Average Power (dBm)		Tune-up	
TX Channel		Limit		Limit		Limit		Limit	
Frequency (MHz)	512	861	810	(dBm)	512	861	810	(dBm)	
DSM0 1 Tx ant	36.92	36.92	36.92	37.92	24.92	24.92	24.92	25.92	
DSM0 1 Tx ant	36.57	36.43	36.51	37.00	21.57	15.43	21.51	22.00	
OPRS 1 Tx ant	36.36	36.41	36.30	37.00	21.36	21.41	21.30	22.00	
OPRS 2 Tx ant	27.06	27.24	27.36	28.00	21.06	21.24	21.16	22.00	
OPRS 3 Tx ant	25.13	25.24	25.16	26.00	20.87	20.98	20.90	21.74	
OPRS 4 Tx ant	23.54	23.73	23.68	24.50	20.24	20.73	20.36	22.00	
EDGE 1 Tx ant	26.51	26.41	26.25	27.00	17.91	17.41	17.45	18.00	
EDGE 2 Tx ant	24.49	24.52	24.50	24.50	17.42	17.52	17.50	18.00	
EDGE 3 Tx ant	21.51	21.80	21.50	21.50	17.05	17.40	17.04	18.00	
EDGE 4 Tx ant	19.77	19.93	19.67	21.00	16.77	16.93	16.67	18.00	

TAS1									
Band		Band Average Power (dBm)		Tune-up		Frame Average Power (dBm)		Tune-up	
TX Channel		Limit		Limit		Limit		Limit	
Frequency (MHz)	9262	9402	9538	(dBm)	9262	9402	9538	(dBm)	
SCPP Rel SW	24.15	24.17	24.13	25.00	15.00	16.03	14.91	16.00	
SCPP Rel SW	24.17	24.10	24.15	24.00	15.03	15.00	14.93	16.00	
SCPP Rel B	23.19	23.26	23.27	24.00	13.79	13.86	13.93	14.00	
SCPP Rel B	23.22	23.16	23.26	24.00	13.76	13.86	13.85	14.00	
SCPP Rel B	22.70	22.72	22.64	23.50	13.70	13.92	13.36	14.00	
SCPP Rel B	22.72	22.73	22.74	23.50	13.69	13.74	13.36	14.00	
SCPP Rel B	23.11	23.27	23.24	24.00	13.72	13.84	13.91	14.00	
SCPP Rel B	23.13	23.09	23.17	24.00	13.70	13.80	13.83	14.00	
SCPP Rel B	22.61	22.71	22.67	23.50	13.34	13.70	13.34	14.00	
SCPP Rel B	22.68	22.73	22.62	23.50	13.24	13.17	13.32	14.00	
SCPP Rel B	21.94	21.89	21.89	23.00	12.93	12.94	12.94	14.00	
SCPP Rel B	19.41	19.37	19.36	21.00	10.97	10.92	10.92	14.00	
SCPP Rel B	21.18	21.17	21.13	22.00	11.84	11.81	11.89	13.00	
SCPP Rel B	20.48	20.69	20.68	21.00	11.43	11.39	11.37	12.00	
SCPP Rel B	22.10	22.10	22.10	23.00	12.43	12.49	12.43	14.00	
SCPP Rel B	18.87	19.06	18.94	20.50	9.75	9.60	9.82	11.50	

TAS0									
Band		Band Average Power (dBm)		Tune-up		Frame Average Power (dBm)		Tune-up	
TX Channel		Limit		Limit		Limit		Limit	
Frequency (MHz)	512.4	816.4	844.4	(dBm)	512.4	816.4	844.4	(dBm)	
SCPP Rel SW	23.13	24.07	24.13	25.00	21.63	21.63	21.13	23.00	
SCPP Rel SW	23.05	24.03	24.03	24.00	21.64	21.62	21.66	23.00	
SCPP Rel B	23.07	23.05	23.11	24.00	20.43	20.48	20.52	22.00	
SCPP Rel B	22.68	23.12	23.06	24.00	20.43	20.43	20.46	22.00	
SCPP Rel B	22.57	23.03	22.61	23.50	19.84	20.02	20.06	21.50	
SCPP Rel B	22.57	22.59	22.53	23.50	19.82	20.06	19.91	21.50	
SCPP Rel B	22.64	23.02	22.68	24.00	20.26	20.41	20.47	22.00	
SCPP Rel B	22.67	22.65	22.61	24.00	20.50	20.45	20.43	22.00	
SCPP Rel B	22.61	22.62	22.62	23.50	19.90	19.97	19.97	21.50	
SCPP Rel B	22.42	22.61	22.49	23.50	19.88	19.99	19.99	21.50	
SCPP Rel B	21.02	21.02	21.01	21.00	16.75	16.75	16.75	21.00	
SCPP Rel B	20.09	20.04	20.07	21.00	16.31	16.29	16.34	19.00	
SCPP Rel B	20.59	20.53	20.52	22.00	16.51	16.52	16.52	20.00	
SCPP Rel B	20.59	20.64	20.64	21.00	17.81	17.79	17.85	19.00	
SCPP Rel B	21.56	21.11	21.36	22.00	19.80	19.39	19.36	21.00	
SCPP Rel B	18.85	19.06	18.94	20.50	9.75	9.60	9.82	11.50	

TAS1									
Band		Band Average Power (dBm)		Tune-up		Frame Average Power (dBm)		Tune-up	
TX Channel		Limit		Limit		Limit		Limit	
Frequency (MHz)	512	816	844	(dBm)	512	816	844	(dBm)	
DSM0 1 Tx ant	32.62	33.16	33.69	34.50	23.88	24.16	24.63	25.00	
OPRS 1 Tx ant	32.07	33.33	33.29	34.00	23.97	23.33	23.29	25.00	
OPRS 2 Tx ant	29.08	29.30	29.01	31.00	23.08	23.30	23.01	25.00	
OPRS 3 Tx ant	27.10	27.21	27.14	28.00	22.84	22.95	22.88	24.74	
OPRS 4 Tx ant	25.59	25.87	25.84	27.00	22.59	22.87	22.84	24.50	
EDGE 1 Tx ant	26.54	26.69	26.38	26.99	17.44	17.69	17.38	18.00	
EDGE 2 Tx ant	24.49	24.50	24.29	25.00	17.49	17.50	17.29	18.00	
EDGE 3 Tx ant	21.52	21.53	21.47	22.00	17.26	17.27	17.21	18.74	
EDGE 4 Tx ant	20.07	20.05	20.19	21.00	17.07	17.09	17.18	18.00	

TAS1									
Band		Band Average Power (dBm)		Tune-up		Frame Average Power (dBm)		Tune-up	
TX Channel		Limit		Limit		Limit		Limit	
Frequency (MHz)	512	861	810	(dBm)	512	861	810	(dBm)	
DSM0 1 Tx ant	36.92	36.92	36.92	37.92	24.92	24.92	24.92	25.92	
DSM0 1 Tx ant	36.53	36.46	36.49	36.99	15.53	15.55	15.46	17.00	
OPRS 1 Tx ant	34.52	34.55	34.45	35.00	15.52	15.55	15.45	17.00	
OPRS 2 Tx ant	21.27	21.23	21.33	22.00	15.27	15.23	15.33	16.50	
OPRS 3 Tx ant	19.33	19.39	19.26	20.00	15.07	15.13	15.02	16.24	
OPRS 4 Tx ant	17.84	17.76	17.76	18.00	14.84	14.76	14.76	18.00	
EDGE 1 Tx ant	26.59	26.79	26.94	27.00	17.90	17.79	17.84	18.00	
EDGE 2 Tx ant	24.51	24.52	24.51	24.50	17.41	17.41	17.41	18.00	
EDGE 3 Tx ant	21.54	21.60	21.61	21.00	17.08	17.03	17.10	17.24	
EDGE 4 Tx ant	14.43	14.39	13.96	15.00	11.43	11.39	10.96	12.00	

TAS1									
Band		Band Average Power (dBm)		Tune-up		Frame Average Power (dBm)		Tune-up	
TX Channel		Limit		Limit		Limit		Limit	
Frequency (MHz)	1524	1415	1513	(dBm)	1524	1415	1513	(dBm)	
SCPP Rel SW	24.20	24.23	24.18	25.00	16.31	16.43	16.28	17.50	
SCPP Rel SW	24.22	24.20	24.20	25.00	16.35	16.43	16.31	17.50	
SCPP Rel B	23.37	23.35	23.40	24.00	15.37	15.51	15.51	16.00	
SCPP Rel B	23.42	23.35	23.40	24.00	15.36	15.42	15.46	16.00	
SCPP Rel B	22.68	22.85	22.89	23.50	14.51	15.03	14.38	16.00	
SCPP Rel B	22.85	22.84	22.84	23.50	14.87	14.80	14.84	16.00	
SCPP Rel B	23.33	23.36	23.34	24.00	15.34	15.40	15.44	16.00	
SCPP Rel B	23.24	23.33	23.34	24.00	15.36	15.36	15.42	16.00	
SCPP Rel B	22.60	22.65	22.76	23.50	14.84	14.98	14.91	16.00	
SCPP Rel B	22.78	22.88	22.75	23.50	14.85	14.88	14.89	16.00	
SCPP Rel B	21.59	21.59	21.51	22.00	13.67	13.69	13.69	16.00	
SCPP Rel B	19.38	19.43	19.40	21.00	11.54	11.60	11.50	13.00	
SCPP Rel B	21.20	21.32	21.36	22.00	13.78	13.74	13.72	14.00	
SCPP Rel B	20.81	20.85	20.82	21.00	13.16	13.21	13.12	13.00	
SCPP Rel B	22.30	22.30	22.30	23.00	14.12	14.16	14.22	16.00	
SCPP Rel B	19.01	19.11	19.02	20.50	11.51	11.50	11.07	13.00	



Band 2_Ant 2									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Fires	Power High Ch./Fires	Power Low Ch./Fires	Turn-up time (s)	MPP (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.49	22.54	22.59			
10	QPSK	1	49	22.27	22.32	22.37	24	0	
20	QPSK	1	99	22.35	22.39	22.44			
20	QPSK	50	0	21.27	21.6	21.29			
20	QPSK	50	24	21.31	21.51	21.61	23	1	
20	QPSK	50	50	21.5	21.35	21.25			
20	QPSK	100	0	21.35	21.48	21.57			
20	QPSK	100	24	21.72	21.77	21.84	23	1	
20	HQAM	1	49	21.55	21.65	21.7			
20	HQAM	1	99	21.61	21.59	21.58			
20	HQAM	50	0	20.26	20.8	20.23			
20	HQAM	50	24	20.37	20.51	20.36	22	2	
20	HQAM	100	0	20.47	20.37	20.26			
20	HQAM	100	24	20.38	20.45	20.21	21	3	
20	HQAM	1	0	20.63	20.62	20.64			
20	HQAM	1	49	20.44	20.4	20.42			
20	HQAM	1	99	20.53	20.48	20.42			
20	HQAM	50	0	19.28	19.59	19.23			
20	HQAM	50	24	19.37	19.5	19.33			
20	HQAM	100	0	19.48	19.37	19.26			
20	HQAM	100	0	19.38	19.46	19.34			
20	HQAM	1	49	17.50	17.5	17.48	19	5	
20	HQAM	1	99	17.48	17.51	17.52			
20	HQAM	50	0	17.49	17.49	17.49			
20	HQAM	50	24	17.38	17.48	17.51	19	5	
20	HQAM	100	0	17.38	17.38	17.34			
20	HQAM	100	0	17.42	17.42	17.41			
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.57	18.60	18.55			
15	QPSK	1	49	22.32	22.32	22.32			
15	QPSK	1	99	22.18	22.24	22.27	24	0	
15	QPSK	1	74	22.28	22.23	22.27			
15	QPSK	36	0	21.29	21.50	21.22			
15	QPSK	36	24	21.29	21.52	21.43	23	1	
15	QPSK	36	36	21.46	21.30	21.28			
15	HQAM	1	74	21.64	21.42	21.38			
15	HQAM	1	99	21.64	21.74	21.64	23	1	
15	HQAM	36	0	20.17	20.50	20.19			
15	HQAM	36	20	20.33	20.52	20.38	22	2	
15	HQAM	36	20	20.33	20.57	20.36			
15	HQAM	75	0	20.33	20.37	20.36			
15	HQAM	1	0	20.56	20.57	20.56			
15	HQAM	1	49	20.56	20.57	20.56	21	3	
15	HQAM	1	74	20.56	20.52	20.52			
15	HQAM	36	0	19.31	19.57	19.23			
15	HQAM	36	20	19.42	19.31	19.17			
15	HQAM	36	36	19.42	19.41	19.34			
15	HQAM	75	0	19.40	19.41	19.34			
15	HQAM	1	74	17.48	17.48	17.47	19	5	
15	HQAM	1	99	17.48	17.52	17.54			
15	HQAM	36	0	17.48	17.38	17.39			
15	HQAM	36	20	17.32	17.42	17.37	19	5	
15	HQAM	36	36	17.32	17.37	17.48			
15	HQAM	75	0	17.42	17.42	17.41			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.41	22.41	22.41			
10	QPSK	1	25	22.23	22.42	22.25	24	0	
10	QPSK	1	49	22.29	22.28	22.34			
10	QPSK	1	74	22.29	22.29	22.29			
10	QPSK	25	12	21.43	21.51	21.37	23	1	
10	QPSK	25	25	21.42	21.34	21.17			
10	QPSK	25	37	21.37	21.36	21.35			
10	HQAM	1	0	21.71	21.64	21.60			
10	HQAM	1	25	21.50	21.63	21.53	23	1	
10	HQAM	25	12	20.48	20.58	20.48			
10	HQAM	25	12	20.48	20.74	20.35	22	2	
10	HQAM	25	12	20.48	20.74	20.35			
10	HQAM	25	12	20.29	20.45	20.26			
10	HQAM	1	0	20.59	20.66	20.49			
10	HQAM	1	49	20.52	20.53	20.41	22	2	
10	HQAM	1	49	20.52	20.53	20.37			
10	HQAM	25	0	19.32	19.49	19.27			
10	HQAM	25	12	19.36	19.36	19.26			
10	HQAM	25	12	19.36	19.35	19.26	21	3	
10	HQAM	50	0	19.38	19.35	19.27			
10	HQAM	50	0	17.52	17.52	17.50			
10	HQAM	1	25	17.44	17.52	17.57	19	5	
10	HQAM	1	49	17.43	17.37	17.62			
10	HQAM	1	74	17.43	17.46	17.47			
10	HQAM	25	12	17.34	17.48	17.48	19	5	
10	HQAM	25	12	17.36	17.38	17.54			
10	HQAM	50	0	17.42	17.40	17.45			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.41	22.41	22.41			
5	QPSK	1	14	22.28	22.45	22.37	24	0	
5	QPSK	1	24	22.25	22.34	22.30			
5	QPSK	12	0	21.43	21.53	21.43			
5	QPSK	12	7	21.54	21.51	21.46	23	1	
5	QPSK	12	13	21.41	21.39	21.19			
5	QPSK	12	13	21.34	21.48	21.31			
5	HQAM	1	0	21.65	21.72	21.60			
5	HQAM	1	12	21.46	21.68	21.61	23	1	
5	HQAM	1	12	21.46	21.57	21.53			
5	HQAM	12	0	20.31	20.55	20.21			
5	HQAM	12	7	20.37	20.50	20.34	22	2	
5	HQAM	12	13	20.46	20.30	20.23			
5	HQAM	25	0	20.37	20.42	20.36			
5	HQAM	1	0	20.52	20.54	20.45			
5	HQAM	1	24	20.39	20.44	20.45	22	2	
5	HQAM	1	24	20.58	20.48	20.45			
5	HQAM	12	0	19.27	19.31	19.25			
5	HQAM	12	13	19.38	19.40	19.37	21	3	
5	HQAM	12	13	19.52	19.33	19.18			
5	HQAM	25	0	19.42	19.39	19.31			
5	HQAM	25	0	17.58	17.57	17.53			
5	HQAM	1	12	17.43	17.57	17.64	19	5	
5	HQAM	1	24	17.46	17.44	17.47			
5	HQAM	12	13	17.46	17.41	17.46			
5	HQAM	12	7	17.23	17.41	17.44	19	5	
5	HQAM	12	13	17.29	17.39	17.36			
5	HQAM	25	0	17.42	17.47	17.49			
Channel									
Frequency (MHz)									
3	QPSK	1	0	22.53	22.48	22.37			
3	QPSK	1	8	22.27	22.43	22.34	24	0	
3	QPSK	1	14	22.27	22.32	22.32			
3	QPSK	1	24	22.31	21.54	21.53			
3	QPSK	8	4	21.27	21.41	21.36	23	1	
3	QPSK	8	7	21.52	21.39	21.25			
3	QPSK	8	14	21.42	21.51	21.43			
3	HQAM	1	0	21.64	21.67	21.60			
3	HQAM	1	8	21.48	21.70	21.51	23	1	
3	HQAM	1	14	21.57	21.62	21.59			
3	HQAM	1	24	21.67	21.67	21.67			
3	HQAM	8	0	20.25	20.59	20.22			
3	HQAM	8	4	20.32	20.49	20.34	22	2	
3	HQAM	1	0	20.37	20.41	20.19			
3	HQAM	15	0	20.36	20.36	20.22			
3	HQAM	1	0	20.49	20.63	20.43	22	2	
3	HQAM	1	0	20.49	20.53	20.36			
3	HQAM	1	14	20.55	20.52	20.41			
3	HQAM	8	0	19.52	19.63	19.16			
3	HQAM	8	7	19.29	19.51	19.36	21	3	
3	HQAM	8	7	19.51	19.38	19.17			
3	HQAM	15	0	17.53	17.62	17.67			
3	HQAM	1	0	17.47	17.48	17.49	19	5	
3	HQAM	1	14	17.46	17.49	17.49			
3	HQAM	1	14	17.42	17.47	17.49			
3	HQAM	8	4	17.33	17.48	17.43	19	5	
3	HQAM	8	7	17.37	17.39	17.43			
3	HQAM	15	0	17.42	17.40	17.50			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	22.54	22.44	22.36			
1.4	QPSK	1	3	22.24	22.45	22.36	24	0	
1.4	QPSK	1	3	22.34	22.22	22.35			
1.4	QPSK	1	14	22.35	22.45	22.39			
1.4	QPSK	3	1	22.26	22.53	22.38			
1.4	QPSK	3	3	22.46	22.34	22.19	23	1	
1.4	QPSK	3	14	21.52	21.42	21.41			
1.4	HQAM	1	0	21.77	21.72	21.67			
1.4	HQAM	1	3	21.67	21.65	21.65	23	1	
1.4	HQAM	1	3	21.51	21.51	21.53			
1.4	HQAM	1	0	21.26	21.35	21.19			
1.4	HQAM	3	0	21.40	21.41	21.37			
1.4	HQAM	6	0	20.38	20.48	20.33	22	2	
1.4	HQAM	1	0	20.46	20.55	20.40			
1.4	HQAM	1	0	20.39	20.58	20.47			
1.4	HQAM	1	5	20.50	20.48	20.44	22	2	
1.4	HQAM	1	0	20.24	20.35	20.23			
1.4	HQAM	1	0	20.30	20.42	20.33			
1.4	HQAM	3	0	20.39	20.41	20.18	21	3	
1.4	HQAM	3	0	20.37	20.37	20.19			
1.4	HQAM	1	0	17.48	17.49	17.64			
1.4	HQAM	1	3	17.47	17.66	17.68			
1.4	HQAM	1	3	17.47	17.47	17.47			
1.4	HQAM	3	0	17.36	17.39	17.58	19	5	
1.4	HQAM	1	1	17.31	17.35	17.40			
1.4	HQAM	1	3	17.42	17.25	17.40			
1.4	HQAM	6	0	17.50	17.41</				



1.4	256QAM	6	0	18.87	19.02	19.24	20	5
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1.4	256QAM	6	0	18.46	18.45	18.79	20	2
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Band 7_Ant 0												
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freq	Power Hsp Ch / Freq	Power Low Ch / Freq	Tune-up Time (min)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.02	22.14	22.05	23	0				
20	QPSK	1	49	21.74	21.89	21.82						
20	QPSK	1	99	21.91	22.09	22.00						
20	QPSK	50	0	21.15	21.20	21.13	22	1				
20	QPSK	50	24	20.84	21.00	20.97						
20	QPSK	50	50	20.98	21.10	21.03						
20	QPSK	100	0	20.98	21.14	20.92	22	1				
20	16QAM	1	0	21.19	21.39	21.17						
20	16QAM	1	49	21.07	21.43	21.12						
20	16QAM	1	99	20.89	21.22	21.16	21	2				
20	16QAM	50	0	19.87	20.10	19.95						
20	16QAM	50	24	19.84	20.04	19.92						
20	16QAM	100	0	19.77	19.89	19.98	20	3				
20	64QAM	1	0	19.91	20.04	19.92						
20	64QAM	1	49	19.61	20.04	19.92						
20	64QAM	1	99	19.91	20.30	20.09	20	3				
20	64QAM	50	24	19.82	19.12	18.95						
20	64QAM	50	50	19.88	19.10	18.99						
20	64QAM	100	0	18.78	18.98	18.94	18	5				
20	256QAM	1	49	17.03	17.19	17.07						
20	256QAM	1	99	18.85	18.88	18.89						
20	256QAM	50	0	18.88	17.05	16.99	18	5				
20	256QAM	50	24	18.91	17.09	16.99						
20	256QAM	50	50	18.89	17.04	16.93						
20	256QAM	100	0	18.93	17.04	16.98	20	3				
Channel												
Frequency (MHz)												
15	QPSK	1	0	21.62	21.88	21.72	23	0				
15	QPSK	1	37	21.60	21.76	21.81						
15	QPSK	1	74	21.59	21.89	21.87						
15	QPSK	36	0	20.47	20.61	20.64	22	1				
15	QPSK	36	39	20.48	20.61	20.63						
15	QPSK	36	39	20.67	20.68	20.67						
15	QPSK	75	0	20.69	20.63	20.67	22	1				
15	16QAM	1	0	20.61	20.65	21.1						
15	16QAM	1	37	20.54	20.73	20.63						
15	16QAM	1	74	20.54	20.71	21.08	21	2				
15	16QAM	36	39	19.49	19.91	19.75						
15	16QAM	36	39	19.42	19.82	19.81						
15	16QAM	75	0	19.58	19.74	19.8	20	3				
15	64QAM	1	0	19.91	20.1	19.74						
15	64QAM	1	37	19.72	19.91	19.84						
15	64QAM	1	74	19.97	19.95	20.09	20	3				
15	64QAM	36	0	18.47	18.88	18.83						
15	64QAM	36	39	18.69	18.84	18.86						
15	64QAM	36	39	18.71	18.91	18.89	18	5				
15	64QAM	75	0	18.64	18.6	18.86						
15	256QAM	1	37	18.64	17.05	16.93						
15	256QAM	1	74	18.73	18.83	18.69	18	5				
15	256QAM	36	39	18.68	18.78	18.81						
15	256QAM	36	39	18.78	18.91	18.90						
15	256QAM	36	39	18.69	18.84	18.78	18	5				
15	256QAM	75	0	18.75	18.7	18.88						
15	256QAM	75	0	18.75	18.7	18.88						
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.62	21.88	21.72	23	0				
10	QPSK	1	25	21.31	21.71	21.72						
10	QPSK	1	49	21.39	21.77	21.75						
10	QPSK	12	0	20.43	20.74	20.66	22	1				
10	QPSK	25	12	20.4	20.9	20.74						
10	QPSK	25	25	20.47	20.82	20.7						
10	QPSK	25	25	20.68	20.82	20.87	22	1				
10	16QAM	1	0	20.31	20.69	20.61						
10	16QAM	1	25	20.55	21.14	20.86						
10	16QAM	1	49	20.19	20.75	20.66	21	2				
10	16QAM	25	0	19.26	19.79	19.78						
10	16QAM	25	12	19.25	19.83	19.67						
10	16QAM	36	25	19.30	19.81	19.86	20	3				
10	16QAM	50	0	19.5	19.89	19.73						
10	64QAM	1	0	19.14	19.97	19.78						
10	64QAM	1	25	19.34	19.89	19.85	20	3				
10	64QAM	1	49	19.69	19.94	19.83						
10	64QAM	25	0	18.48	18.73	18.77						
10	64QAM	25	12	18.33	18.81	18.86	18	5				
10	64QAM	25	25	18.44	18.98	18.9						
10	64QAM	50	0	18.58	18.63	18.92						
10	256QAM	1	0	17.05	17.07	16.90	18	5				
10	256QAM	1	25	16.97	17.05	17.00						
10	256QAM	1	49	16.97	16.81	16.74						
10	256QAM	25	0	16.82	16.87	16.90	18	5				
10	256QAM	25	12	16.77	16.98	16.86						
10	256QAM	25	25	16.77	16.82	16.82						
10	256QAM	50	0	16.81	16.92	16.83	18	5				
10	256QAM	50	0	16.81	16.92	16.83						
10	256QAM	50	0	16.81	16.92	16.83						
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.4	21.61	21.68	23	0				
5	QPSK	1	12	21.38	21.71	21.72						
5	QPSK	1	24	21.33	21.84	21.67						
5	QPSK	12	0	20.43	20.74	20.66	22	1				
5	QPSK	12	7	20.41	20.57	20.82						
5	QPSK	12	13	20.52	20.8	20.78						
5	QPSK	25	0	20.35	20.73	20.65	22	1				
5	16QAM	1	0	20.4	21.2	21.1						
5	16QAM	1	12	20.48	21.26	20.65						
5	16QAM	1	24	20.48	20.69	21.18	21	2				
5	16QAM	12	0	19.45	19.71	19.84						
5	16QAM	12	7	19.38	19.61	19.92						
5	16QAM	12	13	19.36	19.69	19.77	20	3				
5	16QAM	25	0	19.37	19.97	19.96						
5	64QAM	1	0	18.4	19.86	19.98						
5	64QAM	1	12	18.95	19.97	20.11	20	3				
5	64QAM	12	0	18.41	18.99	18.8						
5	64QAM	12	13	18.39	18.69	18.85						
5	64QAM	25	0	18.42	18.74	19.04	18	5				
5	256QAM	1	0	17.02	17.02	16.92						
5	256QAM	1	12	16.98	17.08	16.92						
5	256QAM	1	24	16.72	16.85	16.83	18	5				
5	256QAM	12	0	16.79	16.96	16.81						
5	256QAM	12	7	16.84	16.85	16.84						
5	256QAM	12	13	16.79	16.85	16.81	18	5				
5	256QAM	25	0	16.79	16.86	16.76						
5	256QAM	25	0	16.79	16.86	16.76						

Band 7_Ant 1									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freq	Power Hsp Ch / Freq	Power Low Ch / Freq	Tune-up Time (min)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	15.88	15.98	15.94	17.5	0	
20	QPSK	1	49	15.87	15.93	15.97			
20	QPSK	50	24	15.98	16.05	15.99			
20	QPSK	50	0	15.90	16.07	16.03	17.5		
20	QPSK	100	0	15.89	15.96	15.92	17.5	0	
20	QPSK	1	0	15.77	15.86	15.87			
20	QPSK	1	49	15.76	15.84	15.89			
20	QPSK	1	99	15.79	15.83	15.89	17.5		
20	QPSK	50	24	15.77	15.83	15.87	17.5	0	
20	QPSK	50	0	15.77	15.86	15.87			
20	QPSK	50	50	15.77	15.83	15.89			
20	QPSK	100	0	15.87	16.02	15.95	17.5	0	
20	QPSK	1	49	15.86	15.93	15.97			
20	QPSK	1	99	15.80	16.04	15.99			
20	QPSK	50	24	15.89	16.07	16.03	17.5		
20	QPSK	100	0	15.84	16.05	16.05	17.5	0	
20	QPSK	1	49	15.83	16.01	15.98			
20	QPSK	1	99	15.79	15.88	15.94			
20	QPSK	50	24	15.84	16.05	16.04	17.5		
20	QPSK	100	0	15.87	16.07	16.13	17.5	0	
20	QPSK	1	49	15.83	15.93	15.94			
20	QPSK	1	99	15.80	15.94	15.93			
20	QPSK	50	24	15.87	15.87	15.87	17.5		
20	QPSK	100	0	15.75	15.87	15.78	Un-tuned and off	0	
20	QPSK	1	49	15.75	15.87	15.87			
20	QPSK	1	99	15.75	15.87	15.87			
Channel									
Frequency (MHz)									
16	QPSK	1	0	15.74	16.00	15.88	17.5	0	
16	QPSK	1	37	15.82	16.01	15.83			
16	QPSK	1	74	15.82	16.01	15.83			
16	QPSK	36	0	16.82	16.01	15.97	17.5	0	
16	QPSK	36	25	15.91	16.00	15.88			
16	QPSK	36	50	15.91	16.00	15.88			
16	QPSK	75	0	16.79	15.92	15.88	17.5	0	
16	QPSK	1	0	15.68	15.97	15.85			
16	QPSK	1	49	15.64	15.93	15.94			
16	QPSK	1	74	15.66	16.00	15.81	17.5		
16	QPSK	36	0	15.64	16.00	15.74	17.5	0	
16	QPSK	36	25	15.73	15.95	15.87			
16	QPSK	36	50	15.72	15.92	15.85			
16	QPSK	75	0	15.76	15.97	15.92	17.5	0	
16	QPSK	1	49	15.79	15.98	15.94			
16	QPSK	1	74	15.72	15.99	15.81			
16	QPSK	1	37	15.73	15.98	15.81	17.5	0	
16	QPSK	1	74	15.72	15.99	15.81			
16	QPSK	36	25	15.73	15.98	15.81			
16	QPSK	36	25	16.87	16.04	15.76	17.5	0	
16	QPSK	36	50	15.96	16.01	15.88			
16	QPSK	36	75	15.77	15.99	15.81			
16	QPSK	75	0	16.84	15.95	15.87	17.5	0	
16	QPSK	1	37	15.72	15.96	15.78			
16	QPSK	1	74	15.73	15.96	15.75			
16	QPSK	36	0	16.84	15.90	15.85	17.5	0	
16	QPSK	36	25	16.83	15.85	15.77			
16	QPSK	36	50	16.83	15.85	15.77			
16	QPSK	75	0	16.66	15.83	15.71	Un-tuned and off	0	
16	QPSK	1	49	15.66	15.83	15.81			
16	QPSK	1	99	15.66	15.83	15.81			
Channel									
Frequency (MHz)									
5	QPSK	1	0	15.89	15.97	15.97	17.5	0	
5	QPSK	1	24	15.89	15.94	15.82			
5	QPSK	1	49	15.88	15.90	15.81			
5	QPSK	12	0	15.83	15.99	15.93	17.5	0	
5	QPSK	12	12	15.82	15.98	15.93			
5	QPSK	12	24	15.84	15.98	15.93			
5	QPSK	12	36	15.86	15.98	15.98	17.5	0	
5	QPSK	12	48	15.87	15.98	15.98			
5	QPSK	12	60	15.87	15.97	15.97			
5	QPSK	12	72	15.87	15.97	15.97	17.5	0	
5	QPSK	12	84	15.87	15.97	15.97			
5	QPSK	12	96	15.87	15.97	15.97			
5	QPSK	12	108	15.87	15.97	15.97	17.5	0	
5	QPSK	12	120	15.87	15.97	15.97			
5	QPSK	12	132	15.87	15.97	15.97			
5	QPSK	12	144	15.87	15.97	15.97	17.5	0	
5	QPSK	12	156	15.87	15.97	15.97			
5	QPSK	12	168	15.87	15.97	15.97			
5	QPSK	12	180	15.87	15.97	15.97	17.5	0	
5	QPSK	12	192	15.87	15.97	15.97			
5	QPSK	12	204	15.87	15.97	15.97			
5	QPSK	12	216	15.87	15.97	15.97	17.5	0	
5	QPSK	12	228	15.87	15.97	15.97			
5	QPSK	12	240	15.87	15.97	15.97			
5	QPSK	12	252	15.87	15.97	15.97	17.5	0	
5	QPSK	12	264	15.87	15.97	15.97			
5	QPSK	12	276	15.87	15.97	15.97			
5	QPSK	12	288	15.87	15.97	15.97	17.5	0	
5	QPSK	12	300	15.87	15.97	15.97			
5	QPSK	12	312	15.87	15.97	15.97			
5	QPSK	12	324	15.87	15.97	15.97	17.5	0	
5	QPSK	12	336	15.87	15.97	15.97			
5	QPSK	12	348	15.87	15.97	15.97			
5	QPSK	12	360	15.87	15.97	15.97	17.5	0	
5	QPSK	12	372	15.87	15.97	15.97			
5	QPSK	12	384	15.87	15.97	15.97			
5	QPSK	12	396	15.87	15.97	15.97	17.5	0	
5	QPSK	12	408	15.87	15.97	15.97			
5	QPSK	12	420	15.87	15.97	15.97			
5	QPSK	12	432	15.87	15.97	15.97	17.5	0	
5	QPSK	12	444	15.87	15.97	15.97			
5	QPSK	12	456	15.87	15.97	15.97			
5	QPSK	12	468	15.87	15.97	15.97	17.5	0	
5	QPSK	12	480	15.87	15.97	15.97			
5	QPSK	12	492	15.87	15.97	15.97			
5	QPSK	12	504	15.87	15.97	15.97	17.5	0	
5	QPSK	12	516	15.87	15.97	15.97			
5	QPSK	12	528	15.87	15.97	15.97			
5	QPSK	12	540	15.87	15.97	15.97	17.5	0	
5	QPSK	12	552	15.87	15.97	15.97			
5	QPSK	12	564	15.87	15.97	15.97			
5	QPSK	12	576	15.87	15.97	15.97	17.5	0	
5	QPSK	12	588	15.87	15.97	15.97			
5	QPSK	12	600	15.87	15.97	15.97			
5	QPSK	12	612	15.87	15.97	15.97	17.5	0	
5	QPSK	12	624	15.87	15.97	15.97			
5	QPSK	12	636	15.87	15.97	15.97			
5	QPSK	12	648	15.87	15.97	15.97	17.5	0	
5	QPSK	12	660	15.87	15.97	15.97			
5	QPSK	12	672	15.87	15.97	15.97			
5	QPSK	12	684	15.87	15.97	15.97	17.5	0	
5	QPSK	12	696	15.87	15.97	15.97			
5	QPSK	12	708	15.87	15.97	15.97			
5	QPSK	12	720	15.87	15.97	15.97	17.5	0	
5	QPSK	12	732	15.87	15.97	15.97			
5	QPSK	12	744	15.87	15.97	15.97			
5	QPSK	12	756	15.87	15.97	15.97	17.5	0	
5	QPSK	12	768	15.87	15.97	15.97			
5	QPSK	12	780	15.87	15.97	15.97			
5	QPSK	12	792	15.87	15.97	15.97	17.5	0	
5	QPSK	12	804	15.87	15.97	15.97			
5	QPSK	12	816	15.87	15.97	15.97			
5	QPSK	12	828	15.87	15.97	15.97	17.5	0	
5	QPSK	12	840	15.87	15.97	15.97			
5	QPSK	12	852	15.87	15.97	15.97			
5	QPSK	12	864	15.87	15.97	15.97	17.5	0	
5	QPSK	12	876	15.87	15.97	15.97			
5	QPSK	12	888	15.87	15.97	15.97			
5	QPSK	12	900	15.87	15.97	15.97	17.5	0	
5	QPSK	12	912	15.87	15.97	15.97			
5	QPSK	12	924	15.87	15.97	15.97			
5	QPSK	12	936	15.87	15.97	15.97	17.5	0	
5	QPSK	12	948	15.87	15.97	15.97			
5	QPSK	12	960	15.87	15.97	15.97			
5	QPSK	12	972	15.87	15.97	15.97	17.5	0	
5	QPSK	12	984	15.87	15.97	15.97			
5	QPSK	12	996	15.87	15.97	15.97			
5	QPSK	12	1008	15.87	15.97	15.97	17.5	0	
5	QPSK	12	1020	15.87	15.97	15.97			
5	QPSK	12	1032	15.87	15.97	15.97			
5	QPSK	12	1044	15.87	15.97	15.97	17.5	0	
5	QPSK	12	1056	15.87	15.97	15.97			
5	QPSK	12	1068	15.87	15.97	15.97			
5	QPSK	12	1080	15.87	15.97	15.97	17.5	0	
5	QPSK	12	1092	15.87	15.97	15.97			
5	QPSK	12	1104	15.87	15.97	15.97			
5	QPSK	12	1116	15.87	15.97	15.97	17.5	0	
5	QPSK	12	1128	15.87	15.97	15.97			
5	QPSK	12	1140	15.87	15.97	15.97			
5	QPSK	12	1152	15.87	15.97	15.97	17.5	0	
5	QPSK	12	1164	15.87	15.97	15.97			
5	QPSK	12	1176	15.87	15.97	15.97			
5	QPSK	12	1188	15.87	15.97	15.97	17.5	0	
5	QPSK	12	1200	15.87	15.97	15.97			
5	QPSK	12	1212	15.87	15.97	15.97			
5	QPSK	12	1224	15.87	15.97	15.97	17.5	0	
5	QPSK	12	1236	15.87	15.97	15.97			
5	QPSK	12	1248	15.87	15.97	15.97			
5	QPSK	12	1260	15.87	15.97	15.97	17.5	0	
5	QPSK	12	1272	15.87	15.97	15.97			
5	QPSK	12	1284	15.87	15.97	15.97			



Band 12_Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Turn-up (dB)	MPE (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	24.67	24.77	24.66	25.7	0			
10	QPSK	1	25	24.62	24.43	24.63					
10	QPSK	1	49	24.66	24.65	24.40					
10	QPSK	25	12	23.56	23.84	23.74					
10	QPSK	25	25	23.61	23.69	23.71					
10	QPSK	25	0	23.74	23.82	23.64	24.7	1			
10	QPSK	1	0	24.04	23.79	24.05					
10	QPSK	1	25	24.10	23.69	24.07					
10	16QAM	1	49	23.83	24.02	24.20					
10	16QAM	25	0	22.45	22.97	22.61					
10	16QAM	25	12	22.80	22.71	22.59	23.7	2			
10	16QAM	25	25	22.83	22.81	22.86					
10	16QAM	50	0	22.70	22.83	22.74					
10	16QAM	1	0	22.84	22.72	22.78					
10	8QAM	1	25	22.52	22.70	22.62					
10	8QAM	1	49	22.72	22.69	22.80	23.7	2			
10	8QAM	25	0	21.53	21.68	21.70					
10	8QAM	25	12	21.57	21.74	21.85					
10	8QAM	25	25	21.62	21.70	21.71					
10	8QAM	50	0	21.68	21.81	21.69					
10	256QAM	1	0	20.10	20.22	20.12	22.7	3			
10	256QAM	1	25	20.21	20.35	20.26					
10	256QAM	1	49	19.96	20.17	20.51					
10	256QAM	25	0	20.30	20.19	20.28					
10	256QAM	25	12	20.04	20.18	20.04					
10	256QAM	25	25	19.96	20.04	19.96	20.7	5			
10	256QAM	50	0	19.96	20.06	19.93					
Channel											
Frequency (MHz)											
5	QPSK	1	0	24.40	24.60	24.50			25.7	0	
5	QPSK	1	25	24.53	24.52	24.53					
5	QPSK	1	24	24.61	24.60	24.57					
5	QPSK	12	0	23.43	23.65	23.59					
5	QPSK	12	7	23.43	23.63	23.64					
5	QPSK	12	13	23.63	23.59	23.53	24.7	1			
5	QPSK	25	0	23.57	23.69	23.66					
5	8QAM	1	0	23.84	23.74	24.00					
5	16QAM	1	12	23.97	23.84	23.89					
5	16QAM	1	24	23.80	23.92	23.99					
5	16QAM	12	0	22.35	22.56	22.58	23.7	2			
5	16QAM	12	7	22.50	22.58	22.53					
5	16QAM	12	13	22.49	22.49	22.48					
5	16QAM	25	0	22.47	22.52	22.68					
5	8QAM	1	0	22.67	22.67	22.62					
5	8QAM	1	24	22.60	22.57	22.69	22.7	3			
5	8QAM	12	0	21.62	21.85	21.50					
5	8QAM	12	7	21.62	21.85	21.61					
5	8QAM	12	13	21.56	21.56	21.61					
5	256QAM	1	12	19.95	19.95	19.95					
5	256QAM	1	12	20.13	20.24	20.08	20.7	5			
5	256QAM	1	24	19.95	20.10	19.95					
5	256QAM	12	0	19.96	19.96	19.97					
5	256QAM	12	7	19.96	19.99	19.99					
5	256QAM	12	13	19.96	19.91	19.91					
5	256QAM	25	0	19.96	19.98	19.98					
Channel											
Frequency (MHz)											
3	QPSK	1	0	24.44	24.56	24.57	25.7	0			
3	QPSK	1	8	24.65	24.51	24.67					
3	QPSK	1	14	24.56	24.60	24.57					
3	QPSK	3	0	23.48	23.61	23.59					
3	QPSK	3	4	23.49	23.53	23.62					
3	QPSK	8	7	23.61	23.44	23.44	24.7	1			
3	QPSK	8	7	23.63	23.77	23.66					
3	16QAM	1	0	23.97	23.63	24.00					
3	16QAM	1	8	23.97	23.84	24.04					
3	16QAM	8	4	22.55	22.62	22.67	23.7	2			
3	16QAM	8	7	22.44	22.48	22.58					
3	16QAM	15	0	22.55	22.63	22.65					
3	8QAM	1	0	22.67	22.63	22.67					
3	8QAM	1	8	22.72	22.61	22.65					
3	8QAM	1	14	22.60	22.60	22.72	22.7	3			
3	8QAM	8	0	21.44	21.55	21.61					
3	8QAM	8	4	21.50	21.62	21.67					
3	8QAM	8	7	21.53	21.55	21.69					
3	8QAM	15	0	21.53	21.51	21.57					
3	256QAM	1	0	19.98	19.14	19.03	20.7	5			
3	256QAM	1	8	20.12	20.14	20.16					
3	256QAM	1	14	19.97	20.12	19.96					
3	256QAM	8	0	20.06	20.02	19.99					
3	256QAM	8	4	19.96	19.97	19.95					
3	256QAM	15	0	19.98	19.91	19.75					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	24.44	24.56	24.57	25.7	0			
1.4	QPSK	1	3	24.47	24.54	24.53					
1.4	QPSK	1	5	24.58	24.61	24.57					
1.4	QPSK	3	0	24.44	24.53	24.40					
1.4	QPSK	3	1	24.41	24.45	24.48					
1.4	QPSK	3	3	24.53	24.48	24.43	24.7	1			
1.4	QPSK	8	0	23.58	23.76	23.60					
1.4	16QAM	1	0	23.79	23.68	23.63					
1.4	16QAM	1	3	23.93	23.80	23.98					
1.4	16QAM	1	5	23.75	23.84	24.15					
1.4	16QAM	3	0	23.68	23.62	23.89	24.7	1			
1.4	16QAM	3	3	23.63	23.72	23.63					
1.4	16QAM	3	3	23.63	23.68	24.01					
1.4	16QAM	8	0	22.48	22.52	22.61					
1.4	8QAM	1	0	22.66	22.64	22.67					
1.4	8QAM	1	3	22.73	22.68	22.71	23.7	2			
1.4	8QAM	1	5	22.56	22.64	22.68					
1.4	8QAM	3	0	22.50	22.48	22.50					
1.4	8QAM	3	1	22.62	22.60	22.61					
1.4	8QAM	3	3	22.33	22.52	22.57					
1.4	8QAM	8	0	21.52	21.56	21.53	22.7	3			
1.4	256QAM	1	0	20.01	20.12	19.99					
1.4	256QAM	1	3	20.10	20.17	20.15					
1.4	256QAM	1	5	19.99	20.11	19.96					
1.4	256QAM	3	0	19.95	20.06	19.91					
1.4	256QAM	3	1	19.96	19.98	19.97	20.7	5			
1.4	256QAM	3	3	19.95	20.08	19.91					
1.4	256QAM	8	0	19.94	19.96	19.71					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	23.48	23.52	23.57	25	0			
1.4	QPSK	1	5	23.53	23.64	23.54					
1.4	QPSK	3	0	23.02	23.12	23.09					
1.4	QPSK	3	1	23.09	23.11	23.07					
1.4	QPSK	3	3	23.04	23.04	23.00					
1.4	QPSK	8	0	23.00	23.12	23.00	24.5	0.5			
1.4	16QAM	1	0	23.21	23.26	23.27					
1.4	16QAM	1	3	23.21	23.34	23.20					
1.4	16QAM	1	5	23.23	23.27	23.34					
1.4	16QAM	3	0	23.26	23.30	23.28					
1.4	16QAM	3	1	22.94	22.94	22.95	24.5	0.5			
1.4	16QAM	3	3	22.98	22.95	22.94					
1.4	16QAM	8	0	22.18	22.18	22.18					
1.4	8QAM	1	0	22.08	22.09	22.15					
1.4	8QAM	1	3	22.18	22.19	22.18					
1.4	8QAM	1	5	22.19	22.23	22.21	23.5	1.5			
1.4	8QAM	3	0	22.31	21.97	21.95					
1.4	8QAM	3	1	21.96	21.94	21.97					
1.4	8QAM	3	3	21.98	21.95	21.97					
1.4	8QAM	8	0	20.88	21.80	21.10					



Band 17_Ant 0									
BW (MHz)	Modulation	RB Spz	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)	709	710	711						
10	QPSK	1	0	24.75	24.76	24.72			
10	QPSK	1	25	24.65	24.74	24.73			
10	QPSK	1	49	24.61	24.67	24.68			
10	QPSK	25	0	23.68	23.69	23.70			
10	QPSK	25	12	23.65	23.72	23.68			
10	QPSK	25	25	23.61	23.65	23.64			
10	QPSK	50	0	23.68	23.76	23.72			
10	16QAM	1	0	23.69	24.09	24.08			
10	16QAM	1	25	23.75	24.18	24.15			
10	16QAM	1	49	23.68	24.19	24.20			
10	16QAM	1	0	22.67	22.70	22.76			
10	16QAM	25	12	22.64	22.63	22.78			
10	16QAM	25	25	22.68	22.94	22.63			
10	16QAM	50	0	22.67	22.70	22.66			
10	64QAM	1	0	22.86	22.65	22.60			
10	64QAM	1	25	22.86	22.89	22.60			
10	64QAM	1	49	23.02	22.86	22.73			
10	64QAM	25	0	21.65	21.62	21.62			
10	64QAM	25	12	21.70	21.71	21.69			
10	64QAM	25	25	21.69	21.73	21.68			
10	64QAM	50	0	21.69	21.73	21.68			
10	256QAM	1	25	20.18	20.24	20.25			
10	256QAM	1	49	20.10	20.21	20.16			
10	256QAM	25	0	19.97	20.03	19.98			
10	256QAM	25	12	20.07	20.15	19.95			
10	256QAM	25	25	20.00	20.09	20.06			
10	256QAM	50	0	19.97	20.04	19.98			
Channel									
Frequency (MHz)	706.5	707.0	710.5	Turn-up time (sec)	MFR (dB)				
5	QPSK	1	0	24.39	24.40	24.30			
5	QPSK	1	12	24.49	24.40	24.40			
5	QPSK	1	24	24.64	24.65	24.62			
5	QPSK	12	0	23.50	23.67	23.56			
5	QPSK	12	7	23.59	23.60	23.60			
5	QPSK	12	13	23.60	23.51	23.52			
5	QPSK	25	0	23.61	23.64	23.58			
5	16QAM	1	0	23.54	23.56	23.50			
5	16QAM	1	12	23.61	24.14	24.02			
5	16QAM	1	24	23.70	24.04	24.08			
5	16QAM	12	0	22.59	22.58	22.64			
5	16QAM	12	7	22.61	22.65	22.69			
5	16QAM	12	13	22.54	22.57	22.48			
5	16QAM	25	0	22.60	22.58	22.49			
5	64QAM	1	0	22.66	22.59	22.60			
5	64QAM	1	12	22.60	22.57	22.63			
5	64QAM	1	24	22.51	22.57	22.52			
5	64QAM	12	0	21.53	21.53	21.53			
5	64QAM	12	7	21.53	21.53	21.55			
5	64QAM	12	13	21.50	21.51	21.51			
5	64QAM	25	0	21.60	21.68	21.47			
5	256QAM	1	0	20.15	20.18	20.03			
5	256QAM	1	12	20.04	20.07	20.01			
5	256QAM	1	24	20.00	20.11	20.06			
5	256QAM	12	0	19.87	19.98	19.86			
5	256QAM	12	7	20.00	19.98	19.96			
5	256QAM	12	13	19.91	20.10	19.85			
5	256QAM	25	0	19.93	20.00	19.90			

Band 17_Ant 1									
BW (MHz)	Modulation	RB Spz	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-up time (sec)	MFR (dB)	
Channel									
Frequency (MHz)	709	710	711						
10	QPSK	1	0	23.61	23.68	23.60			
10	QPSK	1	25	23.55	23.64	23.45			
10	QPSK	1	49	23.62	23.48	23.48			
10	QPSK	25	0	23.63	23.21	23.11			
10	QPSK	25	12	23.03	23.08	23.01			
10	QPSK	25	25	23.06	23.04	23.09			
10	QPSK	50	0	22.83	23.18	23.05			
10	16QAM	1	0	23.57	23.07	23.17			
10	16QAM	1	25	23.38	23.27	23.20			
10	16QAM	1	49	23.42	23.33	23.40			
10	16QAM	25	0	21.99	22.02	22.05			
10	16QAM	25	12	21.98	22.05	21.97			
10	16QAM	25	25	21.96	22.04	21.96			
10	16QAM	50	0	22.12	21.99	21.96			
10	64QAM	1	0	22.95	22.16	22.10			
10	64QAM	1	25	22.92	22.29	22.16			
10	64QAM	1	49	22.94	22.24	22.26			
10	64QAM	25	0	20.91	21.08	21.12			
10	64QAM	25	12	20.97	21.04	20.96			
10	64QAM	25	25	20.97	21.03	20.96			
10	64QAM	50	0	21.00	20.92	21.00			
10	256QAM	1	25	19.90	19.97	19.93			
10	256QAM	1	49	19.47	19.67	19.44			
10	256QAM	25	0	19.39	19.40	19.28			
10	256QAM	25	12	19.34	19.44	19.29			
10	256QAM	25	25	19.43	19.49	19.35			
10	256QAM	50	0	19.27	19.37	19.20			
Channel									
Frequency (MHz)	706.5	710	713.5	Turn-up time (sec)	MFR (dB)				
5	QPSK	1	0	23.56	23.65	23.48			
5	QPSK	1	12	23.60	23.51	23.48			
5	QPSK	1	24	23.53	23.51	23.49			
5	QPSK	12	0	23.01	23.18	23.14			
5	QPSK	12	7	23.07	23.03	23.00			
5	QPSK	12	13	23.01	23.05	23.07			
5	QPSK	25	0	22.68	23.19	23.09			
5	16QAM	1	0	23.18	23.07	23.17			
5	16QAM	1	12	23.32	23.27	23.18			
5	16QAM	1	24	23.47	23.29	23.39			
5	16QAM	12	0	22.04	22.01	22.04			
5	16QAM	12	7	21.94	22.10	21.87			
5	16QAM	12	13	21.98	21.99	21.98			
5	16QAM	25	0	22.17	22.03	21.95			
5	64QAM	1	0	22.06	22.13	22.17			
5	64QAM	1	12	22.24	22.31	22.20			
5	64QAM	1	24	22.29	22.32	22.31			
5	64QAM	12	0	20.95	21.07	21.07			
5	64QAM	12	7	20.99	21.05	20.94			
5	64QAM	12	13	20.95	21.04	20.90			
5	64QAM	25	0	20.95	20.91	20.96			
5	256QAM	1	0	19.93	19.93	19.90			
5	256QAM	1	12	19.91	19.93	19.91			
5	256QAM	1	24	19.46	19.85	19.43			
5	256QAM	12	0	19.34	19.43	19.23			
5	256QAM	12	7	19.33	19.44	19.24			
5	256QAM	12	13	19.40	19.54	19.39			
5	256QAM	25	0	19.35	19.40	19.25			

Band 26_Ant 0									
BW (MHz)	Modulation	RB Spz	RB Offset	Power Low Ch / Freq	Power Med Ch / Freq	Power High Ch / Freq	Turn-on time (sec)	MFR (dB)	
Channel									
Frequency (MHz)	811.5	811.5	811.5						
15	QPSK	1	0	24.26	24.33	23.90			
15	QPSK	1	37	24.31	23.98	23.81			
15	QPSK	1	74	24.47	24.05	23.87			
15	QPSK	36	0	23.65	23.14	23.94			
15	QPSK	36	20	23.61	23.08	23.83			
15	QPSK	36	36	23.58	23.02	23.61			
15	QPSK	75	0	23.61	23.15	23.07			
15	16QAM	1	0	23.57	23.57	23.88			
15	16QAM	1	37	23.54	23.35	23.12			
15	16QAM	1	74	22.61	23.50	23.05			
15	16QAM	36	0	21.89	22.00	22.02			
15	16QAM	36	20	22.01	21.97	22.07			
15	16QAM	36	36	22.05	21.99	22.00			
15	16QAM	75	0	22.00	21.96	22.00			
15	64QAM	1	0	22.20	22.91	22.34			
15	64QAM	1	37	22.32	22.42	22.37			
15	64QAM	1	74	22.36	22.30	22.29			
15	64QAM	36	0	20.95	21.03	20.97			
15	64QAM	36	20	21.06	20.98	21.08			
15	64QAM	36	36	21.06	21.01	21.05			
15	64QAM	75	0	20.92	21.00	21.04			
15	256QAM	1	0	19.26	19.46	19.30			
15	256QAM	1	37	19.54	19.58	19.51			
15	256QAM	1	74	19.09	19.29	19.20			
15	256QAM	36	0	19.10	19.20	19.10			
15	256QAM	36	20	19.35	19.42	19.33			
15	256QAM	36	36	19.25	19.29	19.21			
15	256QAM	75	0	19.27	19.36	19.20			
Channel									
Frequency (MHz)	811.5	811.5	811.5	Turn-on time (sec)	MFR (dB)				
10	QPSK	1	0	24.22	24.13	23.82			
10	QPSK	1	25	24.11	23.89	23.81			
10	QPSK	1	49	23.99	23.95	23.70			
10	QPSK	25	0	22.85	23.09	22.95			
10	QPSK	25	12	22.84	22.94	22.88			
10	QPSK	25	25	22.85	22.95	22.84			
10	QPSK	50	0	22.89	22.98	23.08			
10	16QAM	1	0	23.30	23.39	23.79			
10	16QAM	1	25	23.25	23.34	23.69			
10	16QAM	1	49	22.74	23.34	23.01			
10	16QAM	25	0	21.87	21.90	21.88			
10	16QAM	25	12	21.88	21.90	21.87			
10	16QAM	25	25	21.87	21.91	21.87			
10	16QAM	50	0	21.84	21.91	21.85			
10	64QAM	1	0	22.12	22.23	22.28			
10	64QAM	1	49	22.19	22.17	22.25			
10	64QAM	25	0	20.96	21.04	20.95			
10	64QAM	25	12	20.99	20.94	20.95			
10	64QAM	25	25	20.88	20.90	20.86			
10	64QAM	50	0	20.83	20.89	20.86			
10	256QAM	1	0	19.22	19.34	19.25			
10	256QAM	1	25	19.40	19.52	19.44			
10	256QAM	1	49	19.09	19.29	19.20			
10	256QAM	25	0	19.20	19.29	19.19			
10	256QAM	25	12	19.15	19.33	19.28			
10	256QAM	25	25	19.15	19.29	19.20			
10	256QAM	50	0	19.20	19.34	19.14			



Band 66_Ant 0

RF [MHz]	Modulation	RF SS	RF Offset	Power Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Power Hsp./Ch./F.Freq.	Turn-on Time (sec)	MPR (dB)		
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.81	21.86	21.73	23	0		
20	QPSK	1	49	21.81	21.86	21.73				
20	QPSK	50	0	20.92	20.95	20.88	22	1		
20	QPSK	50	50	20.78	20.80	20.76				
20	QPSK	100	0	20.77	20.83	20.73	22	1		
20	QPSK	100	50	20.88	21.21	21.13				
20	16QAM	1	49	20.97	20.99	21.02	21	2		
20	16QAM	1	99	21.09	21.12	21				
20	16QAM	50	0	19.73	19.86	19.77	21	2		
20	16QAM	50	24	19.63	19.90	19.83				
20	16QAM	50	50	19.77	19.91	19.75	20	3		
20	16QAM	50	50	19.64	19.85	19.85				
20	16QAM	100	0	19.85	20.36	20.11	21	2		
20	16QAM	100	50	19.84	20.23	19.7				
20	16QAM	1	99	19.8	19.89	19.77	20	3		
20	16QAM	1	99	19.8	19.89	19.77				
20	16QAM	50	24	19.84	19.86	19.78	20	3		
20	16QAM	50	24	19.88	19.86	19.88				
20	16QAM	100	0	19.81	19.88	19.78	18	5		
20	16QAM	100	50	19.87	19.77	19.75				
20	256QAM	1	99	17.61	17.13	17.08	18	5		
20	256QAM	1	99	17.61	17.13	17.08				
20	256QAM	50	50	16.84	16.90	16.86	18	5		
20	256QAM	50	50	16.84	16.90	16.92				
20	256QAM	100	0	16.92	16.92	16.97	20	3		
20	256QAM	100	50	16.94	16.92	16.97				
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.7	21.69	21.72	23	0		
20	QPSK	1	49	21.7	21.69	21.72				
20	QPSK	1	99	21.73	21.77	21.71	22	1		
20	QPSK	0	0	20.79	20.88	20.82				
20	QPSK	36	39	20.77	20.83	20.76	22	1		
20	QPSK	36	39	20.77	20.83	20.76				
20	16QAM	1	99	20.81	21.09	21.11	22	1		
20	16QAM	1	99	20.81	21.09	21.11				
20	16QAM	1	37	20.97	20.86	20.9	22	1		
20	16QAM	1	37	20.97	20.86	20.9				
20	16QAM	50	24	19.87	19.77	19.86	21	2		
20	16QAM	50	24	19.87	19.77	19.86				
20	16QAM	50	50	19.88	19.86	19.81	21	2		
20	16QAM	50	50	19.88	19.86	19.81				
20	16QAM	75	0	19.85	19.72	19.84	20	3		
20	16QAM	75	0	19.85	19.72	19.84				
20	16QAM	36	39	19.82	19.77	19.85	20	3		
20	16QAM	36	39	19.82	19.77	19.85				
20	16QAM	75	0	19.82	19.87	19.86	18	5		
20	16QAM	75	0	19.82	19.87	19.86				
20	256QAM	1	37	16.96	17.12	17.10	18	5		
20	256QAM	1	37	16.96	17.12	17.10				
20	256QAM	1	74	16.88	17.10	17.08	18	5		
20	256QAM	1	74	16.88	17.10	17.08				
20	256QAM	36	39	16.83	16.88	16.78	18	5		
20	256QAM	36	39	16.83	16.88	16.78				
20	256QAM	36	39	16.81	16.91	16.93	20	3		
20	256QAM	36	39	16.81	16.91	16.93				
20	256QAM	36	20	16.83	16.92	16.96	20	3		
20	256QAM	36	20	16.83	16.92	16.96				
Channel										
Frequency (MHz)										
20	QPSK	1	0	17.15	17.45	17.75	23	0		
20	QPSK	1	0	17.15	17.45	17.75				
20	QPSK	1	74	17.66	17.80	17.79	22	1		
20	QPSK	0	0	17.87	17.89	17.89				
20	QPSK	36	39	17.70	17.89	17.71	22	1		
20	QPSK	36	39	17.70	17.89	17.71				
20	16QAM	1	37	17.76	17.89	17.74	22	1		
20	16QAM	1	37	17.76	17.89	17.74				
20	16QAM	36	39	17.81	17.80	17.81	21	2		
20	16QAM	36	39	17.81	17.80	17.81				
20	16QAM	36	20	17.73	17.82	17.76	21	2		
20	16QAM	36	20	17.73	17.82	17.76				
20	16QAM	36	0	17.82	17.95	17.89	21	2		
20	16QAM	36	0	17.82	17.95	17.89				
20	16QAM	1	74	17.74	17.85	17.88	21	2		
20	16QAM	1	74	17.74	17.85	17.88				
20	16QAM	36	0	17.73	17.75	17.77	20	3		
20	16QAM	36	0	17.73	17.75	17.77				
20	16QAM	36	36	17.82	17.85	17.88	20	3		
20	16QAM	36	36	17.82	17.85	17.88				
20	16QAM	75	0	17.66	17.80	17.71	20	3		
20	16QAM	75	0	17.66	17.80	17.71				
20	16QAM	75	0	17.66	17.80	17.71	20	3		
20	16QAM	75	0	17.66	17.80	17.71				
20	256QAM	1	37	17.88	17.90	17.87	18	5		
20	256QAM	1	37	17.88	17.90	17.87				
20	256QAM	1	74	17.82	17.86	17.83	18	5		
20	256QAM	1	74	17.82	17.86	17.83				
20	256QAM	36	39	17.82	17.86	17.83	18	5		
20	256QAM	36	39	17.82	17.86	17.83				
20	256QAM	36	20	17.80	17.82	17.83	18	5		
20	256QAM	36	20	17.80	17.82	17.83				
20	256QAM	36	39	17.41	17.57	17.52	18	5		
20	256QAM	36	39	17.41	17.57	17.52				
20	256QAM	48	75	0	17.48	17.50	18	5		
20	256QAM	48	75	0	17.48	17.50				
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.81	21.86	21.73	23	0		
20	QPSK	1	49	21.81	21.86	21.73				
20	QPSK	50	0	20.92	20.95	20.88	22	1		
20	QPSK	50	50	20.78	20.80	20.76				
20	QPSK	100	0	20.77	20.83	20.73	22	1		
20	QPSK	100	50	20.88	21.21	21.13				
20	16QAM	1	49	20.97	20.99	21.02	21	2		
20	16QAM	1	99	21.09	21.12	21				
20	16QAM	50	0	19.73	19.86	19.77	21	2		
20	16QAM	50	24	19.63	19.90	19.83				
20	16QAM	50	50	19.77	19.91	19.75	20	3		
20	16QAM	50	50	19.64	19.85	19.85				
20	16QAM	100	0	19.85	20.36	20.11	21	2		
20	16QAM	100	50	19.84	20.23	19.7				
20	16QAM	1	99	19.8	19.89	19.77	20	3		
20	16QAM	1	99	19.8	19.89	19.77				
20	16QAM	50	24	19.84	19.86	19.78	20	3		
20	16QAM	50	24	19.88	19.86	19.88				
20	16QAM	100	0	19.81	19.88	19.78	18	5		
20	16QAM	100	50	19.87	19.77	19.75				
20	256QAM	1	99	17.61	17.13	17.08	18	5		
20	256QAM	1	99	17.61	17.13	17.08				
20	256QAM	50	50	16.84	16.90	16.86	18	5		
20	256QAM	50	50	16.84	16.90	16.92				
20	256QAM	100	0	16.92	16.92	16.97	20	3		
20	256QAM	100	50	16.94	16.92	16.97				
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.8	21.83	21.83	23	0		
20	QPSK	1	49	21.87	21.87	21.89				
20	QPSK	1	99	21.73	21.77	21.71	22	1		
20	QPSK	0	0	20.79	20.88	20.82				
20	QPSK	36	39	20.77	20.83	20.76	22	1		
20	QPSK	36	39	20.77	20.83	20.76				
20	16QAM	1	99	20.81	21.09	21.11	22	1		
20	16QAM	1	99	20.81	21.09	21.11				
20	16QAM	1	37	20.97	20.86	20.9	22	1		
20	16QAM	1	37	20.97	20.86	20.9				
20	16QAM	50	24	19.87	19.77	19.86	21	2		
20	16QAM	50	24	19.87	19.77	19.86				
20	16QAM	50	50	19.88	19.86	19.81	21	2		
20	16QAM	50	50	19.88	19.86	19.81				
20	16QAM	75	0	19.85	19.72	19.84	20	3		
20	16QAM	75	0	19.85	19.72	19.84				
20	16QAM	36	39	19.82	19.77	19.85	20	3		
20	16QAM	36	39	19.82	19.77	19.85				
20	16QAM	75	0	19.82	19.87	19.86	18	5		
20	16QAM	75	0	19.82	19.87	19.86				
20	256QAM	1	37	16.96	17.12	17.10	18	5		
20	256QAM	1	37	16.96	17.12	17.10				
20	256QAM	1	74	16.88	16.95	17.00	18	5		
20	256QAM	1	74	16.88	16.95	17.00				
20	256QAM	36	39	16.83	16.88	16.78	18	5		
20	256QAM	36	39	16.83	16.88	16.78				
20	256QAM	36	39	16.81	16.91	16.93	20	3		
20	256QAM	36	39	16.81	16.91	16.93				
20	256QAM	36	20	16.83	16.92	16.96	20	3		
20	256QAM	36	20	16.83	16.92	16.96				
Channel										
Frequency (MHz)										
20	QPSK	1	0	21.81	21.86	21.73	23	0		
20	QPSK	1	49	21.81	21.86	21.73				
20	QPSK	50	0	20.92	20.95	20.88	22	1		
20	QPSK	50	50	20.78	20.80	20.76				
20	QPSK	100	0	20.77	20.83	20.73	22	1		
20	QPSK	100	50	20.88	21.21	21.13				
20	16QAM	1	49	20.97	20.99	21.02	21	2		
20	16QAM	1	99	21.09	21.12	21				
20	16QAM	50	0	19.73	19.86	19.77	21	2		
20	16QAM	50	24	19.63	19.90	19.83				
20	16QAM	50	50	19.77	19.91	19.75	20	3		
20	16QAM	50	50	19.64	19.85	19.85				
20	16QAM	100	0	19.85	20.36	20.11	21	2		
20	16QAM	100	50	19.84	20.23	19.7				
20	16QAM	1	99	19.8	19.89	19.77	20	3		
20	16QAM	1	99	19.8	19.89	19.77				
20	16QAM	50	24	19.84	19.86	19.78	20	3		
20	16QAM	50	24	19.88	19.86	19.88				
20	16QAM									



Band 38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Peak Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.76	22.89	22.77			
20	QPSK	1	48	22.82	22.82	22.86			24
20	QPSK	1	96	22.80	22.89	22.82			
20	QPSK	50	0	21.71	21.78	21.70			
20	QPSK	50	24	21.82	21.74	21.65			23
20	QPSK	50	48	21.72	21.72	21.75			
20	QPSK	100	0	21.82	21.85	21.88			
20	16QAM	1	0	21.70	21.82	21.78			23
20	16QAM	1	48	21.72	21.72	21.75			
20	16QAM	50	24	20.89	20.86	20.89			
20	16QAM	50	24	20.81	20.75	20.77			22
20	16QAM	50	50	20.85	20.83	20.77			
20	16QAM	100	0	20.87	20.88	20.79			
20	64QAM	1	0	20.55	20.72	20.57			
20	64QAM	1	48	20.81	20.89	20.89			22
20	64QAM	1	96	20.86	20.73	20.65			
20	64QAM	50	0	19.80	19.73	19.71			
20	64QAM	50	24	19.80	19.77	19.77			21
20	64QAM	50	50	19.80	19.79	19.73			
20	64QAM	100	0	19.88	19.80	19.82			
20	256QAM	1	0	17.81	17.87	17.85			
20	256QAM	1	48	17.85	17.86	17.86			19
20	256QAM	1	96	17.88	17.88	17.47			
20	256QAM	50	0	17.83	17.74	17.73			
20	256QAM	50	24	17.78	17.76	17.76			19
20	256QAM	50	50	17.72	17.84	17.80			
20	256QAM	100	0	17.81	17.81	17.81			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.73	22.73	22.73			
15	QPSK	1	37	22.86	22.38	22.84			24
15	QPSK	1	74	22.83	22.43	22.49			
15	QPSK	36	0	21.68	21.71	21.68			
15	QPSK	36	20	21.52	21.48	21.68			23
15	QPSK	36	36	21.66	21.82	21.63			
15	16QAM	1	0	21.80	21.87	21.87			
15	16QAM	1	37	21.82	21.73	21.75			23
15	16QAM	1	74	21.91	21.73	21.70			
15	16QAM	36	0	20.77	20.54	20.64			
15	16QAM	36	20	20.55	20.55	20.55			22
15	16QAM	36	36	20.91	20.69	20.69			
15	16QAM	75	0	20.82	20.88	20.80			
15	64QAM	1	0	20.94	20.94	20.96			22
15	64QAM	1	37	20.81	20.42	20.52			
15	64QAM	1	74	20.78	20.55	20.83			
15	64QAM	36	0	19.85	19.80	19.84			21
15	64QAM	36	20	19.82	19.82	19.64			
15	64QAM	75	0	19.75	19.45	19.75			
15	256QAM	1	0	17.43	17.57	17.52			19
15	256QAM	1	37	17.52	17.52	17.50			
15	256QAM	1	74	17.54	17.40	17.30			
15	256QAM	36	0	17.71	17.74	17.54			19
15	256QAM	36	20	17.72	17.67	17.68			
15	256QAM	36	39	17.83	17.69	17.65			
15	256QAM	75	0	17.88	17.88	17.47			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.87	22.87	22.87			
10	QPSK	1	25	22.46	22.38	22.45			24
10	QPSK	1	49	22.54	22.44	22.52			
10	QPSK	25	0	21.72	21.72	21.72			
10	QPSK	25	12	21.56	21.49	21.68			23
10	QPSK	25	25	21.76	21.64	21.72			
10	QPSK	50	0	21.74	21.74	21.64			
10	16QAM	1	0	21.76	21.85	21.68			23
10	16QAM	1	25	21.80	21.69	21.86			
10	16QAM	1	49	21.93	21.60	21.79			
10	16QAM	25	0	20.87	20.87	20.70			
10	16QAM	25	12	20.74	20.68	20.68			22
10	16QAM	25	25	20.88	20.83	20.68			
10	16QAM	50	0	20.81	20.88	20.80			
10	64QAM	1	0	20.86	20.84	20.84			
10	64QAM	1	25	20.87	20.36	20.52			22
10	64QAM	1	49	20.75	20.50	20.61			
10	64QAM	25	0	19.78	19.62	19.74			21
10	64QAM	25	12	19.73	19.63	19.64			
10	64QAM	25	25	19.71	19.54	19.63			
10	256QAM	1	0	17.41	17.54	17.44			19
10	256QAM	1	25	17.53	17.41	17.35			
10	256QAM	25	0	17.88	17.82	17.58			
10	256QAM	25	12	17.74	17.61	17.66			19
10	256QAM	25	25	17.58	17.79	17.52			
10	256QAM	50	0	17.48	17.65	17.56			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.84	22.71	22.84			
5	QPSK	1	12	22.57	22.32	22.45			24
5	QPSK	1	24	22.48	22.51	22.48			
5	QPSK	12	0	21.80	21.73	21.86			
5	QPSK	12	7	21.89	21.69	21.89			23
5	QPSK	12	13	21.70	21.62	21.62			
5	QPSK	25	0	21.81	21.78	21.69			
5	16QAM	1	0	21.88	21.84	21.58			
5	16QAM	1	12	21.93	21.82	21.80			23
5	16QAM	1	24	21.81	21.73	21.73			
5	16QAM	12	0	20.74	20.59	20.62			
5	16QAM	12	7	20.69	20.65	20.66			22
5	16QAM	12	13	20.83	20.66	20.70			
5	16QAM	25	0	20.73	20.80	20.66			
5	64QAM	1	0	20.83	20.80	20.47			22
5	64QAM	1	12	20.81	20.40	20.64			
5	64QAM	1	24	20.70	20.55	20.57			
5	64QAM	12	0	19.70	19.63	19.60			21
5	64QAM	12	7	19.63	19.60	19.55			
5	64QAM	12	13	19.82	19.65	19.62			
5	64QAM	25	0	19.75	19.54	19.64			
5	256QAM	1	0	17.42	17.54	17.50			
5	256QAM	1	12	17.44	17.46	17.54			19
5	256QAM	1	24	17.54	17.52	17.32			
5	256QAM	12	0	17.59	17.82	17.64			
5	256QAM	12	7	17.75	17.71	17.70			19
5	256QAM	12	13	17.84	17.73	17.82			
5	256QAM	25	0	17.38	17.59	17.55			

Band 38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Peak Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.43	17.46	17.30			
20	QPSK	1	48	17.18	17.17	17.18	19	0	
20	QPSK	1	96	17.12	17.11	17.14			
20	QPSK	50	0	17.16	17.38	17.21			
20	QPSK	50	24	17.21	17.13	17.10			
20	QPSK	50	48	17.25	17.25	17.24			
20	QPSK	100	0	17.28	17.35	17.24			
20	16QAM	1	0	17.25	17.30	17.30			
20	16QAM	1	48	17.28	17.31	17.36			
20	16QAM	1	96	17.38	17.35	17.40			
20	16QAM	50	0	17.22	17.30	17.30			
20	16QAM	50	24	17.24	17.28	17.24			
20	16QAM	50	50	17.23	17.19	17.30			
20	16QAM	100	0	17.22	17.25	17.24			
20	64QAM	1	0	17.23	17.24	17.28			
20	64QAM	1	48	17.22	17.15	17.38			
20	64QAM	1	96	17.31	17.18	17.32			
20	64QAM	50	0	17.34	17.25	17.24			
20	64QAM	50	24	17.34	17.28	17.26			
20	64QAM	50	50	17.18	17.11	17.24			
20	64QAM	100	0	17.26	17.16	17.26			
20	256QAM	1	0	17.25	17.28	17.10			
20	256QAM	1	48	17.32	17.32	17.24			
20	256QAM	1	96	17.24	17.31	17.16			
20	256QAM	50	0	17.25	17.25	17.18			
20	256QAM	50	24	17.26	17.31	17.27			
20	256QAM	50	50	17.32	17.41	17.45			
20	256QAM	100	0	17.30	17.32	17.18			
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.43	17.43	17.25			
15	QPSK	1	37	17.07	17.08	17.88			
15	QPSK	1	74	17.08	17.07	17.86			
15	QPSK	36	0	17.08	17.31	17.88			
15	QPSK	36	20	17.15	17.07	17.81			
15	QPSK	36	36	17.21	17.26	17.11			
15	16QAM	1	0	17.17	17.15	17.17			
15	16QAM	1	37	17.12	17.25	17.16			
15	16QAM	1	74	17.31	17.30	17.32			
15	16QAM	36	0	17.12	17.27	17.14			
15	16QAM	36	18	17.12	17.28	17.24			
15	16QAM	36	36	17.17	17.10	17.18			
15	16QAM	72	0	17.11	17.13	17.19			
15	64QAM	1	0	17.20	17.20	17.10			
15	64QAM	1	37	17.32	17.12	17.18			
15	64QAM	1	74	17.14	17.12	17.15			
15	64QAM	36	0	17.26	17.14	17.16			
15	64QAM	36	20	17.28	17.16	17.19			
15	64QAM	36	36	17.07	17.04	17.04			
15	64QAM	72	0	17.15	17.13	17.23			
15	256QAM	1	0	17.25	17.25	17.15			
15	256QAM	1	37	17.10	17.21	17.15			
15	256QAM	1	74	17.17	17.26	17.07			
15	256QAM	36	0	17.15	17.26	17.16			
15	256QAM	36	20	17.19	17.27	17.20			
15	256QAM	36	36	17.24	17.37	17.40			
15	256QAM	72	0	17.26	17.28	17.07			
Channel									
Frequency (MHz)									
10	QPSK	1	0	17.43	17.43	17.25			
10	QPSK	1	25	17.09	17.12	17.14			
10	QPSK	1	50	17.15	17.15	17.03			
10	QPSK	20	0	17.04	17.30	17.13			
10	QPSK	20	12	17.15	17.06	17.05			
10	QPSK	20	24	17.15	17.02	17.08			
10	QPSK	50	0	17.16	17.24	17.18			
10	16QAM	1	0	17.19	17.11	17.18			
10	16QAM	1	25	17.27	17.25	17.20			
10	16QAM	1	49	17.33	17.30	17.28			
10	16QAM	20	0	17.12	17.21	17.23			
10	16QAM	20	12	17.14	17.11	17.25			
10	16QAM	20	24	17.20	17.13	17.17			
10	16QAM	50	0	17.18	17.12	17.17			
10	64QAM	1	0	17.30	17.11	17.21			
10	64QAM	1	25	17.17	17.11	17.21			
10	64QAM	1	50	17.11	17.20	17.14			
10	64QAM	20	0	17.24	17.16	17.21			
10	64QAM	20	12	17.26	17.25	17.21			
10	64QAM	20	24	17.17	17.03	17.16			
10	64QAM	50	0	17.17	17.06	17.21			
10	64QAM	50	25	17.12	17.01	17.01			
10	256QAM	1	0	17.12	17.25	17.15			
10	256QAM	1	49	17.21	17.25	17.08			
10	256QAM	20	0	17.26	17.25	17.20			
10	256QAM	20	12	17.14	17.18	17.16			
10	256QAM	20	24	17.28	17.35	17.42			
10	256QAM	50	0	17.29	17.28	17.14			
Channel									
Frequency (MHz)									
5	QPSK	1	0	17.43	17.43	17.25			
5	QPSK	1	12	17.06	17.07	17.12			
5	QPSK	1	24	17.11	17.11	17.06			
5	QPSK	12	0	17.07	17.31	17.12			
5	QPSK	12	7	17.10	17.01	17.07			
5	QPSK	12	14	17.10	17.06	17.11			
5	QPSK	20	0	17.18	17.22	17.14			
5	16QAM	1	0	17.20	17.08	17.26			
5	16QAM	1	12	17.11	17.11	17.10			
5	16QAM	1	24	17.34	17.29	17.35			
5	16QAM	12	0	17.13	17.13	17.23			
5	16QAM	12	7	17.11	17.14	17.23			
5	16QAM	12	13	17.18	17.06	17.17			
5	16QAM	20	0	17.14	17.12	17.13			
5	64QAM	1	0	17.26	17.15	17.16			
5	64QAM	1	12	17.12	17.07	17.18			
5	64QAM	1	24	17.17	17.04	17.14			
5	64QAM	12	0	17.27	17.12	17.13			
5	64QAM	12	7	17.24	17.17	17.20			
5	64QAM	12	13	17.07	17.04	17.13			
5	64QAM	20	0	17.16	17.11	17.13			
5	256QAM	1	0	17.25	17.25	17.15			
5	256QAM	1	24	17.17	17.26	17.09			
5	256QAM	12	0	17.15	17.28	17.38			
5	256QAM	12	7	17.19	17.22	17.26			
5	256QAM	12	13	17.24	17.28	17.36			
5	256QAM	20	0	17.12	17.31	17.14			



Band 38_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel				37465	38050	38150			
Frequency (MHz)				19.01	19.11	19.36			
20	QPSK	1	0	19.01	19.11	19.36	20.2	0	
20	QPSK	1	49	19.03	18.78	18.74			
20	QPSK	1	89	18.87	18.81	18.76			
20	QPSK	50	0	19.08	19.03	19.03			
20	QPSK	50	24	19.01	19.02	18.88	20.2	0	
20	QPSK	50	50	18.94	18.92	18.84			
20	QPSK	100	0	18.96	18.97	18.89			
20	16QAM	1	0	18.87	18.85	18.73	20.2	0	
20	16QAM	1	49	18.97	18.97	18.93			
20	16QAM	1	99	18.86	18.98	18.72			
20	16QAM	50	0	19.03	19.05	18.95	20.2	0	
20	16QAM	50	24	19.03	19.05	18.95			
20	16QAM	50	50	18.99	19.01	18.72	20.2	0	
20	16QAM	100	0	18.94	18.92	18.84			
20	64QAM	1	0	19.02	19.07	19.05			
20	64QAM	1	49	18.86	18.86	18.75	20.2	0	
20	64QAM	1	99	18.90	18.93	18.65			
20	64QAM	50	0	19.03	19.07	19.00			
20	64QAM	50	24	19.02	19.05	18.90	20.2	0	
20	64QAM	50	50	19.00	19.00	18.69			
20	64QAM	100	0	19.04	18.88	18.86			
20	25QAM	1	0	18.78	18.70	18.86	20.2	0	
20	25QAM	1	49	19.02	18.95	18.90			
20	25QAM	1	99	18.98	18.89	18.80			
20	25QAM	50	0	18.96	18.93	18.89			
20	25QAM	50	24	18.87	18.89	18.81	20.2	0	
20	25QAM	50	50	18.98	18.81	18.77			
20	25QAM	100	0	18.93	18.91	18.79			
Channel				37455	38050	38175	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				20.73	20.75	20.72			
15	QPSK	1	0	20.73 <td>20.75<td>20.72<td>24.00</td><td>0</td><td></td></td></td>	20.75 <td>20.72<td>24.00</td><td>0</td><td></td></td>	20.72 <td>24.00</td> <td>0</td> <td></td>	24.00	0	
15	QPSK	1	37	19.84	18.79	18.69	20.2	0	
15	QPSK	1	74	18.94	18.69	18.68			
15	QPSK	36	0	19.92	19.92	19.84			
15	QPSK	36	20	19.95	19.97	19.77	20.2	0	
15	QPSK	36	40	19.84	19.82	18.67			
15	QPSK	75	0	19.89	19.84	19.83			
15	16QAM	1	0	19.83	19.80	19.64	20.2	0	
15	16QAM	1	37	19.87	19.83	19.65			
15	16QAM	1	74	19.79	19.82	19.70			
15	16QAM	36	0	19.87	19.83	18.86	20.2	0	
15	16QAM	36	20	19.87	19.73	18.82			
15	16QAM	36	36	19.86	19.88	18.62			
15	16QAM	75	0	19.86	19.86	18.77			
15	16QAM	75	1	19.88	19.87	18.67	20.2	0	
15	BAGAM	1	0	19.88	19.84	19.85			
15	BAGAM	36	0	19.88	19.84	18.85	20.2	0	
15	BAGAM	36	20	19.78	19.73	18.75			
15	BAGAM	36	40	19.84	19.81	18.64			
15	BAGAM	75	0	19.81	19.85	19.75			
15	25QAM	1	0	19.75	19.82	18.74	20.2	0	
15	25QAM	1	37	19.84	19.82	18.74			
15	25QAM	1	74	19.88	19.83	19.72			
15	25QAM	36	0	19.77	19.81	18.74			
15	25QAM	36	20	19.78	19.84	18.71	20.2	0	
15	25QAM	36	36	19.74	19.82	18.70			
Channel				37455	38050	38225	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				20.72	20.65	20.67			
5	QPSK	1	0	20.72 <th>20.65</th> <th>20.67</th> <td>24.00</td> <td>0</td> <td></td>	20.65	20.67	24.00	0	
5	QPSK	1	12	19.90	19.89	19.76			
5	QPSK	1	25	19.82	19.80	18.70	20.2	0	
5	QPSK	1	49	19.75	19.76	18.67			
5	QPSK	25	0	19.94	19.93	19.80			
5	QPSK	25	12	19.95	19.89	19.79	20.2	0	
5	QPSK	25	25	19.88	19.84	18.74			
5	QPSK	50	0	19.93	19.92	19.84			
5	16QAM	1	0	19.84	19.87	19.80	20.2	0	
5	16QAM	1	12	19.85	19.83	19.70			
5	16QAM	1	25	19.78	19.79	18.69			
5	16QAM	25	0	19.91	19.92	19.69			
5	16QAM	25	12	19.92	19.86	18.76	20.2	0	
5	16QAM	25	25	19.83	19.85	18.67			
5	16QAM	50	0	19.83	19.83	18.73			
5	16QAM	50	12	19.82	19.87	18.63	20.2	0	
5	16QAM	50	25	19.78	19.89	18.58			
5	BAGAM	1	0	19.82	19.83	18.69	20.2	0	
5	BAGAM	1	12	19.83	19.82	18.67			
5	BAGAM	1	25	19.75	19.76	18.67			
5	BAGAM	25	0	19.92	19.88	18.82	20.2	0	
5	BAGAM	25	12	19.92	19.81	18.87			
5	BAGAM	25	25	19.80	19.89	18.62	20.2	0	
5	BAGAM	50	0	19.94	19.80	18.77			
5	BAGAM	50	12	19.74	19.82	18.82	20.2	0	
5	25QAM	1	12	19.80	19.84	18.82			
5	25QAM	1	24	19.80	19.80	18.72	20.2	0	
5	25QAM	1	48	19.75	19.58	18.71			
5	25QAM	12	7	19.81	19.76	18.83	20.2	0	
5	25QAM	12	19	19.86	19.74	18.74			

Band 41_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Ch / Freq	Power Low Ch / Freq	Turn-up limit (dBm)	MPR (dB)	
Channel				39750	40185	40620			
Frequency (MHz)				20.63	20.63	20.63			
20	QPSK	1	0	22.80	22.80	22.72	24.00	0	
20	QPSK	1	49	22.78	22.80	22.71			
20	QPSK	1	99	22.71	22.78	22.69			
20	QPSK	50	0	21.80	21.95	21.98			
20	QPSK	50	24	21.82	21.91	21.69	23.1	1	
20	QPSK	50	50	21.80	21.81	21.65			
20	QPSK	100	0	21.73	21.91	22.03			
20	16QAM	1	0	21.89	21.83	21.85	23.1	1	
20	16QAM	1	49	21.86	21.84	21.82			
20	16QAM	1	99	21.83	22.03	21.80			
20	16QAM	50	0	20.74	20.82	20.80			
20	16QAM	50	24	20.78	20.88	20.89	22	2	
20	16QAM	50	50	20.81	20.91	20.79			
20	16QAM	100	0	20.87	20.85	20.80			
20	64QAM	1	0	20.75	20.92	20.75			
20	64QAM	1	49	20.83	20.92	20.78	22	2	
20	64QAM	1	99	20.83	20.90	20.70			
20	64QAM	50	0	19.78	19.93	19.79			
20	64QAM	50	24	19.80	19.98	19.83	21	3	
20	64QAM	50	50	19.81	19.93	19.83			
20	64QAM	100	0	19.77	19.87	19.81			
20	25QAM	1	0	17.73	17.73	17.83			
20	25QAM	1	49	17.86	17.80	17.80	19	5	
20	25QAM	1	99	17.77	17.76	17.89			
20	25QAM	50	0	17.80	17.78	17.83			
20	25QAM	50	24	17.81	17.77	17.84	19	5	
20	25QAM	50	50	17.80	17.76	17.82			
20	25QAM	100	0	17.73	17.80	17.83			
Channel				39725	40173	40620	Turn-up limit (dBm)	MPR (dB)	
Frequency (MHz)				22.913	22.913	22.913			
15	QPSK	1	0	22.94	22.83	22.81	24.00	0	
15	QPSK	1	37	22.87	22.73	22.71			
15	QPSK	1	74	22.87	22.78	22.60			
15	QPSK	36	0	21.83	21.88	21.84			
15	QPSK	36	20	21.80	21.85	21.69	23.1	1	
15	QPSK	36	36	21.74	21.76	21.57			
15	QPSK	75	0	21.70	21.87	21.69			
15	16QAM	1	0	21.89	21.82	21.74	23.1	1	
15	16QAM	1	37	21.77	21.85	21.80			
15	16QAM	1	74	21.80	22.01	21.70			
15	16QAM	36	0	20.66	20.95	20.77	22	2	
15	16QAM	36	20	20.68	20.82	20.67			
15	16QAM	36	36	20.67	20.87	20.76			
15	16QAM	75	0	20.73	20.86	20.69			
15	64QAM	1	0	20.71	20.80	20.71			
15	64QAM	1	37	20.82	20.83	20.74	22	2	
15	64QAM	74	0	20.80	20.79	20.57			
15	64QAM	36	0	19.70	19.84	19.67	21	3	
15	64QAM	36	20	19.70	19.85	19.75			
15	64QAM	36	36	19.70	19.76	19.63			
15	64QAM	75	0	19.82	19.75	19.70			
15	25QAM	1	0	17.80	17.83	17.82	19	5	
15	25QAM	1	37	17.84	17.82	17.81			
15	25QAM	1	74	17.87	17.87	17.78			
15	25QAM	36	0	17.76	17.72	17.82			
15	25QAM	36	20	17.80	17.76	17.83	19	5	
15	25QAM	36	36	17.68	17.88	17.84			
15	25QAM	75	0	17.72	17.72	17.83			</

Band 41_Ant 2												
RF [MHz]	Modulation	RB Size	RF Offset	Power Low Ch. [mW]	Power Low Freq. [MHz]	Power Med. Ch. [mW]	Power Med. Freq. [MHz]	Power High Ch. [mW]	Power High Freq. [MHz]	Time-up Int. (s)	MPE (dB)	
Channel												
Frequency (MHz)	20	1	0	36970	40185	40000	40000	40005	41600			
15	QPSK	1	0 <td>2560</td> <td>2560.9</td> <td>2561</td> <td>2561</td> <td>2561.9</td> <td>2562</td> <td>25.6</td> <td></td> <td></td>	2560	2560.9	2561	2561	2561.9	2562	25.6		
20	QPSK	1	48 <td>24.43</td> <td>24.51</td> <td>24.51</td> <td>24.58</td> <td>24.68</td> <td>24.8</td> <td>25.7</td> <td>0</td> <td></td>	24.43	24.51	24.51	24.58	24.68	24.8	25.7	0	
20	QPSK	1	96 <td>24.43</td> <td>24.51</td> <td>24.51</td> <td>24.64</td> <td>24.64</td> <td>24.64</td> <td></td> <td></td> <td></td>	24.43	24.51	24.51	24.64	24.64	24.64			
20	QPSK	50	5	23.68	23.71	23.67	23.67	23.67	23.67			
20	QPSK	50	24	23.54	23.67	23.69	23.76	23.76	23.76	24.7	1	
20	QPSK	50	50	23.43	23.5	23.62	23.65	23.65	23.65			
20	QPSK	50	24	23.42	23.44	23.44	23.44	23.44	23.44			
20	16QAM	1	0	23.48	23.48	23.53	23.63	23.63	23.67	24.7	1	
20	16QAM	1	48	23.38	23.37	23.37	23.37	23.37	23.37			
20	16QAM	1	96	23.42	23.72	23.72	23.72	23.72	23.72			
20	16QAM	50	5	22.48	22.83	22.45	22.45	22.47	22.54			
20	16QAM	50	24	22.68	22.68	22.68	22.68	22.68	22.68			
20	16QAM	50	50	22.56	22.66	22.54	22.61	22.67	22.67	23.7	2	
20	16QAM	100	0	22.49	22.43	22.43	22.43	22.43	22.44			
20	16QAM	100	48	22.43	22.43	22.43	22.43	22.43	22.43			
20	16QAM	1	48	22.24	22.42	22.2	22.3	22.34	22.3	23.7	2	
20	16QAM	1	96	22.28	22.56	22.32	22.27	22.26	22.26			
20	16QAM	50	24	21.38	21.38	21.46	21.46	21.46	21.46			
20	16QAM	50	24	21.43	21.68	21.59	21.74	21.45	21.45	22.7	3	
20	16QAM	50	50	21.51	21.61	21.55	21.63	21.63	21.63			
20	16QAM	100	0	21.42	21.56	21.52	21.53	21.53	21.54			
20	256QAM	1	0	18.71	19.60	19.53	19.43	19.38	19.38			
20	256QAM	1	74	19.71	19.68	19.63	19.57	19.41	19.41	20.7	5	
20	256QAM	1	99	18.81	19.83	19.40	19.32	19.52	19.52			
20	256QAM	50	0	18.77	19.59	19.40	19.23	19.43	19.43			
20	256QAM	50	74	19.78	19.68	19.63	19.57	19.41	19.41	20.7	5	
20	256QAM	50	99	19.71	19.51	19.47	19.35	19.35	19.35			
20	256QAM	100	0	18.78	19.56	19.40	19.23	19.43	19.43			
Channel												
Frequency (MHz)	20	1	0	36970	40173	40000	40000	40005	41600			
15	QPSK	1	0 <td>2560</td> <td>2561</td> <td>2561</td> <td>2561</td> <td>2561.9</td> <td>2562</td> <td>25.6</td> <td></td> <td></td>	2560	2561	2561	2561	2561.9	2562	25.6		
15	QPSK	1	37	24.43	24.41	24.45	24.49	24.49	24.64	25.0	0	
15	QPSK	1	74	24.4	24.44	24.54	24.51	24.51	24.62			
15	QPSK	50	5	23.4	23.47	23.47	23.47	23.47	23.48			
15	QPSK	50	24	23.52	23.64	23.61	23.61	23.61	23.61	24.7	1	
15	QPSK	50	50	23.33	23.45	23.33	23.33	23.33	23.33			
15	16QAM	1	0	23.34	23.33	23.43	23.53	23.53	23.58	24.7	1	
15	16QAM	1	48	23.25	23.24	23.24	23.24	23.24	23.24			
15	16QAM	1	74	23.4	23.48	23.39	23.33	23.45	23.41			
15	16QAM	36	0	22.48	22.52	22.33	22.26	22.40	22.39			
15	16QAM	36	24	22.59	22.52	22.31	22.23	22.36	22.33	23.7	2	
15	16QAM	36	36	22.58	22.57	22.41	22.25	22.33	22.3			
15	16QAM	75	0	22.42	22.52	22.45	22.47	22.47	22.53			
15	16QAM	75	0	22.42	22.51	22.42	22.31	22.31	22.31			
15	16QAM	1	37	22.14	22.42	22.16	22.28	22.22	22.27	23.7	2	
15	16QAM	1	74	22.26	22.46	22.26	22.26	22.26	22.26			
15	16QAM	36	36	21.29	21.64	21.41	21.57	21.48	21.48			
15	256QAM	36	20	21.39	21.54	21.38	21.48	21.58	21.54	22.7	3	
15	256QAM	36	20	21.43	21.37	21.21	21.28	21.35	21.35			
15	256QAM	75	0	21.41	21.44	21.44	21.51	21.51	21.5			
15	256QAM	1	0	18.87	19.46	19.44	19.38	19.45	19.45			
15	256QAM	1	74	19.81	19.68	19.63	19.57	19.43	19.43	20.7	5	
15	256QAM	1	99	19.74	19.49	19.27	19.43	19.48	19.48			
15	256QAM	50	0	18.82	19.46	19.26	19.25	19.25	19.25			
15	256QAM	50	74	18.85	19.47	19.26	19.26	19.26	19.26	20.7	5	
15	256QAM	50	99	18.85	19.47	19.26	19.26	19.26	19.26			
15	256QAM	36	30	19.73	19.51	19.45	19.46	19.36	19.36			
15	256QAM	36	30	19.64	19.46	19.35	19.35	19.35	19.35			
Channel												
Frequency (MHz)	20	1	0	36970	40160	40000	40000	40005	41600			
15	QPSK	1	0 <td>24.39</td> <td>24.39</td> <td>24.4</td> <td>24.4</td> <td>24.49</td> <td>24.57</td> <td></td> <td></td> <td></td>	24.39	24.39	24.4	24.4	24.49	24.57			
15	QPSK	1	25	24.37	24.44	24.35	24.45	24.55	24.55	25.0	0	
15	QPSK	6	0	24.35	24.47	24.48	24.44	24.43	24.43			
15	QPSK	5	0	23.35	23.47	23.37	23.45	23.55	23.55			
15	QPSK	25	12	23.46	23.50	23.63	23.56	23.64	23.64	24.7	1	
15	QPSK	25	12	23.38	23.42	23.55	23.48	23.52	23.54			
15	QPSK	36	0	23.38	23.55	23.57	23.51	23.62	23.62			
15	16QAM	1	0	22.47	22.3	23.46	23.43	23.52	23.52			
15	16QAM	1	25	22.38	22.44	22.44	22.44	22.44	22.44	24.7	1	
15	16QAM	1	49	23.3	23.64	23.29	23.33	23.35	23.31			
15	16QAM	25	0	22.24	22.51	22.34	22.54	22.57	22.57			
15	16QAM	25	12	22.33	22.53	22.43	22.43	22.43	22.43	23.7	2	
15	16QAM	25	25	22.45	22.62	22.48	22.5	22.52	22.52			
15	16QAM	36	0	22.25	22.48	22.25	22.25	22.25	22.24			
15	16QAM	36	0	22.25	22.38	22.24	22.33	22.35	22.35			
15	16QAM	1	25	22.13	22.29	22.28	22.28	22.3	22.3	23.7	2	
15	16QAM	25	0	22.27	22.45	22.22	22.24	22.28	22.28			
15	16QAM	25	0	21.3	21.56	21.39	21.39	21.54	21.54			
15	64QAM	25	12	21.37	21.55	21.27	21.45	21.45	21.45	22.7	3	
15	64QAM	25	12	21.43	21.47	21.47	21.47	21.47	21.48			
15	16QAM	60	0	21.4	21.51	21.45	21.48	21.57	21.57			
15	64QAM	1	0	18.71	19.64	19.47	19.35	19.41	19.41			
15	64QAM	1	25	18.86	19.56	19.37	19.47	19.47	19.47	20.7	5	
15	256QAM	1	49	19.73	19.54	19.49	19.35	19.37	19.35			
15	256QAM	1	74	19.78	19.62	19.52	19.47	19.47	19.47	20.7	5	
15	256QAM	25	12	19.71	19.46	19.37	19.46	19.33	19.33			
15	256QAM	25	25	18.85	19.46	19.36	19.37	19.34	19.34			
15	256QAM	50	0	18.68	19.42	19.25	19.27	19.27	19.27	20.7	5	
Channel												
Frequency (MHz)	20	1	0	36970	40146	40000	40000	40005	41600			
15	QPSK	1	0 <td>24.39</td> <td>24.39</td> <td>24.4</td> <td>24.4</td> <td>24.49</td> <td>24.57</td> <td></td> <td></td> <td></td>	24.39	24.39	24.4	24.4	24.49	24.57			
15	QPSK	1	12	24.39	24.51	24.49	24.61	24.62	24.62	25.0	0	
15	QPSK	1	24	24.37	24.44	24.35	24.45	24.55	24.55			
15	QPSK	12	7	23.52	23.57	23.61	23.56	23.67	23.68			
15	QPSK	12	7	23.39	23.52	23.43	23.43	23.43	23.43	24.7	1	
15	QPSK	25	0	23.28	23.5	23.53	23.49	23.51	23.51			
15	QPSK	1	0	22.42	22.24	23.39	23.43	23.42	23.42			
15	16QAM	1	0	23.37	23.34	23.44	23.54	23.54	23.54			
15	16QAM	1	24	23.4	23.71	23.37	23.34	23.37	23.37	24.7	1	
15	16QAM	12	0	22.37	22.37	22.37	22.37	22.37	22.37			
15	16QAM	12	0	22.38	22.58	22.43	22.44	22.46	22.46	23.7	2	
15	16QAM	12	13	22.52	22.64	22.48	22.53	22.58	22.58			
15	64QAM	1	0	22.35	22.62	22.45	22.51	22.54	22.54			
15	64QAM	1	0	22.3	22.4	22.26	22.3	22.3	22.3	23.7	2	
15	64QAM	1	12	22.34	22.55	22.19	22.25	22.3	22.3			
15	64QAM	1	24	21.37	21.47	21.42	21.42	21.42	21.42	22.7	3	
15	16QAM	25	0	21.37	21.41	21.44	21.44	21.52	21.52			
15	16QAM	25	0	21.46	21.56	21.36	21.36	21.36	21.36			
15	256QAM	1	12	18.69	19.62	19.43	19.41	19.41	19.41	20.7	5	
15	256QAM	1	24	18.79	19.49	19.36	19.36	19.36	19.43			
15	256QAM	5	0	18.68	19.46	19.25	19.27	19.27	19.27	20.7	5	
15	256QAM	12	7	18.68	18.88	19.34	19.37	19.35	19.35			
15	256QAM	12	13	18.67	19.38	19.37	19.39	19.39	19.39	20.7	5	

Band 41_Ant 3										
RW [MHz]	Modulation	RID Size	RH Offset	Power Low Ch [FHz]	Power Low Mid Ch [FHz]	Power Mode Ch [FHz]	Power High Mid Ch [FHz]	Power High Ch [FHz]	Time-up limit (dBm)	MPE (dB)
Channel										
Frequency (MHz)				39795	40165	40605	41055	41605		
				2565	2565	5	2363	2363		
15	QPSK	1	0	15.07	19.20	19.08	19.07	19.08	20.2	0
20	QPSK	1	49	15.07	19.20	19.08	19.07	19.08		
20	QPSK	1	99	15.12	19.30	19.11	19.05	19.03		
20	QPSK	50	5	15.13	19.21	19.13	19.08	19.07		
20	QPSK	50	24	15.20	19.30	19.20	19.20	19.19	20.2	0
20	QPSK	50	50	15.17	19.22	19.22	19.18	19.16		
20	QPSK	50	99	15.20	19.21	19.13	19.08	19.07		
20	16QAM	1	0	15.81	19.26	19.31	19.15	19.13		
20	16QAM	1	49	15.81	19.26	19.31	19.15	19.17	20.2	6
20	16QAM	50	5	15.82	19.27	19.27	19.17	19.16		
20	16QAM	50	24	15.93	19.14	19.26	19.28	19.18		
20	16QAM	50	50	15.87	19.24	19.31	19.13	19.09	20.2	0
20	16QAM	100	0	15.24	19.24	19.22	19.20	19.15		
20	16QAM	100	49	15.82	19.28	19.28	19.28	19.08		
20	16QAM	1	49	19.19	19.18	19.26	19.23	19.17	20.2	0
20	16QAM	50	99	19.27	19.20	19.21	19.18	19.18		
20	16QAM	50	24	19.34	19.25	19.34	19.34	19.14		
20	16QAM	50	50	19.22	19.22	19.23	19.20	19.13		
20	16QAM	100	0	19.28	19.27	19.27	19.14	19.15		
20	16QAM	100	0	19.23	19.17	19.25	19.18	19.10		
20	25QAM	1	0	18.97	19.06	19.05	19.05	19.10	20.2	0
20	25QAM	1	49	18.97	19.06	19.06	19.06	19.15		
20	25QAM	1	99	18.90	19.04	19.16	19.07	19.11		
20	25QAM	50	0	18.76	19.12	19.17	19.05	19.19		
20	25QAM	50	0	18.84	19.04	19.14	19.07	19.18	20.2	0
20	25QAM	50	50	18.86	19.02	19.12	19.04	19.16		
20	25QAM	100	0	18.87	19.04	19.14	19.07	19.18		
Channel										
Frequency (MHz)				39775	40173	40605	41064	41515		
				2563	2563	5	2373	2373		
15	QPSK	1	0	15.07	19.21	19.08	19.07	19.08	20.2	0
15	QPSK	1	37	15.00	19.21	19.07	19.01	19.23		
15	QPSK	1	74	15.02	19.26	19.00	19.05	19.03		
15	QPSK	50	5	15.13	19.21	19.13	19.08	19.07	20.0	0
15	QPSK	50	24	15.20	19.30	19.20	19.20	19.19		
15	QPSK	50	50	15.09	19.07	19.11	19.17	19.05		
15	QPSK	50	99	15.13	19.08	19.12	19.13	19.04		
15	QPSK	75	0	15.09	19.06	19.12	19.13	19.09		
15	16QAM	1	0	15.85	19.23	19.25	19.04	19.00		
15	16QAM	1	49	15.85	19.26	19.26	19.01	19.07	20.2	6
15	16QAM	1	74	15.87	19.20	19.20	19.09	19.09		
15	16QAM	36	0	15.95	19.04	19.15	19.24	19.13		
15	16QAM			15.13	19.13	19.13	19.13	19.13		
15	16QAM	36	39	15.76	19.20	19.28	19.05	19.02		
15	16QAM			15.14	19.21	19.31	19.15	19.14		
15	16QAM	75	0	15.86	19.21	19.34	19.14	19.03		
15	16QAM	1	37	15.09	19.10	19.15	19.16	19.13		
15	16QAM			15.14	19.14	19.24	19.18	19.13		
15	16QAM	36	0	15.87	19.18	19.20	19.13	19.03		
15	16QAM	36	20	15.92	19.10	19.16	19.15	19.10		
15	16QAM	36	29	15.76	19.23	19.32	19.03	19.08		
15	25QAM			15.10	19.13	19.12	19.15	19.08		
15	25QAM	1	0	18.85	18.97	18.80	18.96	18.88		
15	25QAM	1	37	18.79	18.87	18.87	18.91	18.79		
15	25QAM	1	74	18.80	18.91	19.01	18.96	19.01		
15	25QAM	50	5	18.70	19.04	19.05	19.00	19.00		
15	25QAM	50	24	18.82	19.01	19.01	19.01	19.13		
15	25QAM	50	50	18.86	18.97	19.08	18.85	19.01		
15	25QAM	50	99	18.77	19.07	19.07	19.03	19.04		
Channel										
Frequency (MHz)				39795	40165	40605	41055	41605		
				2565	2565	5	2363	2363		
15	QPSK	1	0	15.09	19.18	19.29	19.18	19.21	20.2	0
15	QPSK	1	25	15.08	19.17	19.08	19.03	19.06		
15	QPSK	1	49	15.04	19.20	19.07	19.00	19.04		
15	QPSK	25	5	15.04	19.18	19.09	19.01	19.07		
15	QPSK	25	12	15.09	19.00	19.11	19.16	19.04	20.2	0
15	QPSK	25	25	15.11	19.17	19.11	19.08	19.04		
15	QPSK	50	0	15.08	19.08	19.14	19.14	19.15		
15	16QAM	1	0	15.86	19.19	19.25	19.12	19.02		
15	16QAM	1	49	15.78	19.17	19.25	19.12	19.05		
15	16QAM	1	49	15.78	19.17	19.23	19.12	19.00		
15	16QAM	25	0	15.02	19.01	19.09	19.24	19.14		
15	16QAM	25	12	15.18	19.10	19.10	19.10	19.10		
15	16QAM	25	25	15.10	19.12	19.12	19.12	19.12		
15	16QAM	25	50	15.80	19.15	19.21	19.10	18.99		
15	16QAM	50	0	15.19	19.13	19.13	19.13	19.08		
15	16QAM	1	0	15.86	19.19	19.09	19.05	19.00		
15	16QAM	1	25	15.18	19.10	19.21	19.16	19.09		
15	16QAM	1	49	15.21	19.08	19.18	19.11	19.11		
15	16QAM	25	0	15.80	19.22	19.26	19.10	19.04		
15	16QAM	25	12	15.15	19.19	19.15	19.12	19.01	20.2	0
15	16QAM	25	25	15.84	19.23	19.23	19.10	19.09		
15	16QAM	50	0	19.19	19.08	19.20	19.10	19.00		
15	16QAM	50	0	15.05	19.08	19.08	19.07	19.06		
15	16QAM	1	25	15.78	19.01	19.08	19.07	19.06	20.2	0
15	25QAM	1	49	18.86	18.98	19.05	19.03	18.88		
15	25QAM	1	99	18.88	18.98	19.08	18.97	18.84		
15	25QAM	25	12	15.81	19.03	19.01	19.04	19.06	20.2	0
15	25QAM	25	25	15.82	19.04	19.05	19.04	19.04		
15	25QAM	50	0	15.82	19.08	19.08	19.07	19.03		
Channel										
Frequency (MHz)				39675	40148	40605	41093	41565		
				2563	2563	5	2373	2373		
5	QPSK	1	12	15.09	19.19	18.99	19.07	18.96	20.2	0
5	QPSK	1	25	15.08	19.21	18.99	19.00	18.97		
5	QPSK	12	0	15.05	19.14	19.27	19.07	19.09		
5	QPSK	12	7	15.13	19.15	19.15	19.07	19.03		
5	QPSK	25	0	15.13	19.13	19.13	19.09	19.04	20.2	0
5	QPSK	25	0	15.17	19.14	19.16	19.12	19.07		
5	16QAM	1	0	18.81	19.21	19.27	19.06	19.01		
5	16QAM	1	12	18.73	19.13	19.13	19.10	19.04	20.2	0
5	16QAM	1	24	18.81	19.19	19.21	19.11	19.06		
5	16QAM	12	0	15.07	19.17	19.17	19.17	19.17		
5	16QAM	12	13	15.20	19.12	19.13	19.15	19.06		
5	16QAM	25	13	15.74	19.21	19.24	19.01	19.02		
5	16QAM	25	0	15.18	19.15	19.15	19.15	19.10		
5	16QAM	1	0	15.80	19.18	19.23	19.13	19.03		
5	16QAM	1	12	15.15	19.14	19.12	19.19	19.13	20.2	0
5	16QAM	1	24	15.15	19.07	19.17	19.10	19.10		
5	16QAM	25	0	15.14	19.00	19.20	19.10	19.02		
5	16QAM	25	0	15.00	19.14	19.24	19.03	19.07		
5	25QAM	1	12	15.78	19.52	19.00	19.00	19.12	2.2	0
5	25QAM	1	24	15.89	19.06	19.06	19.04	19.02		
5	25QAM	12	0	15.80	19.08	19.08	19.08	19.16		
5	25QAM	12	7	15.90	18.96	19.04	18.99	19.13		
5	25QAM	12	13	15.91	19.00	19.06	18.98	19.09		
5	25QAM	25	0	15.80	19.08	19.08	19.07	19.03		



Reduced Power for DSI 1

DSM890_Ant 0						DSM890_Ant 1					
Band			Band			Band			Band		
Average Power (dBm)			Average Power (dBm)			Average Power (dBm)			Average Power (dBm)		
TX Channel	512	861	810	512	861	810	512	861	810	512	861
Frequency (MHz)	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4
DSM 1 Tx ant	32.14	32.87	32.78	34.56	35.13	35.05	32.14	32.87	32.78	34.56	35.13
OPRRS 1 Tx ant	29.65	29.79	29.51	31.58	31.55	31.58	29.65	29.79	29.51	31.58	31.55
OPRRS 2 Tx ant	27.62	27.75	27.69	29.56	29.38	29.38	27.62	27.75	27.69	29.56	29.38
OPRRS 3 Tx ant	26.59	26.87	26.59	27.49	27.50	27.49	26.59	26.87	26.59	27.49	27.50
OPRRS 4 Tx ant	24.18	24.19	24.19	25.80	25.80	25.80	24.18	24.19	24.19	25.80	25.80
EDGE 1 Tx ant	22.12	22.19	22.27	23.89	23.89	23.89	22.12	22.19	22.27	23.89	23.89
EDGE 2 Tx ant	20.57	20.85	20.57	21.87	21.87	21.87	20.57	20.85	20.57	21.87	21.87

DSM890_Ant 2						DSM890_Ant 3					
Band			Band			Band			Band		
Average Power (dBm)			Average Power (dBm)			Average Power (dBm)			Average Power (dBm)		
TX Channel	512	861	810	512	861	810	512	861	810	512	861
Frequency (MHz)	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4
DSM 1 Tx ant	30.57	30.43	30.51	31.60	31.57	31.60	30.57	30.43	30.51	31.60	31.57
OPRRS 1 Tx ant	28.06	28.41	28.30	29.00	29.06	29.06	28.06	28.41	28.30	29.00	29.06
OPRRS 2 Tx ant	27.06	27.24	27.16	28.00	28.06	28.06	27.06	27.24	27.16	28.00	28.06
OPRRS 3 Tx ant	25.13	25.24	25.16	26.00	26.07	26.06	25.13	25.24	25.16	26.00	26.06
OPRRS 4 Tx ant	23.54	23.73	23.66	24.50	24.54	24.54	23.54	23.73	23.66	24.50	24.54
EDGE 1 Tx ant	21.51	21.60	21.52	22.50	22.50	22.50	21.51	21.60	21.52	22.50	22.50
EDGE 2 Tx ant	19.77	19.93	19.87	21.00	21.07	21.07	19.77	19.93	19.87	21.00	21.07

DSM890_Ant 4						DSM890_Ant 5					
Band			Band			Band			Band		
Average Power (dBm)			Average Power (dBm)			Average Power (dBm)			Average Power (dBm)		
TX Channel	512	861	810	512	861	810	512	861	810	512	861
Frequency (MHz)	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4
DSM 1 Tx ant	29.65	29.65	29.51	30.56	30.53	30.53	29.65	29.65	29.51	30.56	30.53
OPRRS 1 Tx ant	27.06	27.06	26.90	28.00	28.02	28.04	27.06	27.06	26.90	28.00	28.02
OPRRS 2 Tx ant	25.13	25.13	25.06	26.00	26.02	26.04	25.13	25.13	25.06	26.00	26.02
OPRRS 3 Tx ant	23.54	23.54	23.46	24.50	24.52	24.54	23.54	23.54	23.46	24.50	24.52
OPRRS 4 Tx ant	21.51	21.51	21.43	22.50	22.52	22.54	21.51	21.51	21.43	22.50	22.52
EDGE 1 Tx ant	19.77	19.77	19.69	20.75	20.77	20.79	19.77	19.77	19.69	20.75	20.77
EDGE 2 Tx ant	17.99	18.00	17.92	18.90	18.92	18.94	17.99	18.00	17.92	18.90	18.92
EDGE 3 Tx ant	16.25	16.25	16.17	17.25	17.27	17.29	16.25	16.25	16.17	17.25	17.27
EDGE 4 Tx ant	14.51	14.51	14.43	15.50	15.52	15.54	14.51	14.51	14.43	15.50	15.52

DSM890_Ant 6						DSM890_Ant 7					
Band			Band			Band			Band		
Average Power (dBm)			Average Power (dBm)			Average Power (dBm)			Average Power (dBm)		
TX Channel	512	861	810	512	861	810	512	861	810	512	861
Frequency (MHz)	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4	848.6	824.2	836.4
DSM 1 Tx ant	28.06	28.06	27.90	29.00	29.00	29.00	28.06	28.06	27.90	29.00	29.00
OPRRS 1 Tx ant	26.07	26.07	25.90	27.00	27.00	27.00	26.07	26.07	25.90	27.00	27.00
OPRRS 2 Tx ant	24.08	24.08	23.90	25.00	25.00	25.00	24.08	24.08	23.90	25.00	25.00
OPRRS 3 Tx ant	22.09	22.09	21.90	23.00	23.00	23.00	22.09	22.09	21.90	23.00	23.00
OPRRS 4 Tx ant	20.10	20.10	19.90	21.00	21.00	21.00	20.10	20.10	19.90	21.00	21.00
EDGE 1 Tx ant	18.11	18.11	17.90	19.00	19.00	19.00	18.11	18.11	17.90	19.00	19.00
EDGE 2 Tx ant	16.12	16.12	15.90	17.00	17.00	17.00	16.12	16.12	15.90	17.00	17.00
EDGE 3 Tx ant	14.13	14.13	13.90	15.00	15.00	15.00	14.13	14.13	13.90	15.00	15.00
EDGE 4 Tx ant	12.14	12.14	11.90	13.00	13.00	13.00	12.14	12.14	11.90	13.00	13.00



Band 2_Ant 2									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Pilot Ch / Freq	Power Hsp Ch / Freq	Power Hsp Ch / Freq	Turn-up Time (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.51	21.59	21.44			
20	QPSK	1	49	21.52	21.66	21.44			23
20	QPSK	1	99	21.53	21.66	21.44			
20	QPSK	50	0	21.48	21.57	21.39			
20	QPSK	50	24	21.54	21.65	21.43			23
20	QPSK	50	50	21.53	21.62	21.42			
20	QPSK	100	0	21.47	21.55	21.43			
20	16QAM	1	0	21.53	21.62	21.39			23
20	16QAM	1	49	21.54	21.54	21.43			
20	16QAM	1	99	21.54	21.54	21.42			
20	16QAM	50	0	20.49	20.56	20.41			
20	16QAM	50	24	20.47	20.59	20.43			
20	16QAM	50	50	20.48	20.54	20.44			22
20	16QAM	100	0	20.5	20.59	20.44			
20	16QAM	100	50	20.5	20.56	20.41			
20	64QAM	1	49	20.5	20.56	20.41			22
20	64QAM	1	99	20.54	20.57	20.38			
20	64QAM	50	0	19.46	19.56	19.39			21
20	64QAM	50	24	19.54	19.57	19.37			
20	64QAM	50	50	19.51	19.53	19.42			
20	64QAM	100	0	19.54	19.54	19.38			
20	256QAM	1	0	17.52	17.66	17.49			
20	256QAM	1	49	17.49	17.55	17.37			19
20	256QAM	1	99	17.51	17.57	17.41			
20	256QAM	50	0	17.61	17.68	17.72			
20	256QAM	50	24	17.49	17.59	17.65			19
20	256QAM	50	50	17.52	17.47	17.62			
20	256QAM	100	0	17.64	17.70	17.68			
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.41	21.48	21.41			
15	QPSK	1	49	21.44	21.50	21.41			23
15	QPSK	1	99	21.43	21.43	21.41			
15	QPSK	36	0	21.35	21.51	21.30			
15	QPSK	36	39	21.41	21.48	21.33			23
15	QPSK	36	39	21.50	21.43	21.31			
15	QPSK	75	0	21.38	21.42	21.30			
15	16QAM	1	0	21.48	21.34	21.34			
15	16QAM	1	37	21.41	21.42	21.33			
15	16QAM	1	74	21.49	21.51	21.39			23
15	16QAM	36	0	20.45	20.49	20.28			
15	16QAM	36	20	20.43	20.50	20.38			
15	16QAM	36	39	20.36	20.38	20.31			22
15	16QAM	75	0	20.45	20.50	20.38			
15	64QAM	1	0	20.42	20.45	20.31			
15	64QAM	1	49	20.47	20.48	20.28			22
15	64QAM	1	99	20.45	20.45	20.31			
15	64QAM	1	74	20.45	20.45	20.35			
15	64QAM	36	0	19.41	19.52	19.33			
15	64QAM	36	20	19.45	19.47	19.29			21
15	64QAM	36	39	19.43	19.48	19.37			
15	64QAM	75	0	19.44	19.45	19.34			
15	256QAM	1	37	17.42	17.51	17.31			
15	256QAM	1	74	17.42	17.54	17.38			
15	256QAM	1	99	17.45	17.45	17.36			
15	256QAM	36	20	17.37	17.48	17.51			19
15	256QAM	36	39	17.43	17.36	17.52			
15	256QAM	75	0	17.44	17.47	17.52			19
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.39	21.51	21.41			
10	QPSK	1	25	21.45	21.52	21.36			23
10	QPSK	1	49	21.37	21.49	21.33			
10	QPSK	1	99	21.39	21.52	21.31			
10	QPSK	25	12	21.47	21.49	21.39			23
10	QPSK	25	25	21.40	21.44	21.32			
10	QPSK	1	0	21.34	21.43	21.31			
10	16QAM	1	0	21.40	21.49	21.33			
10	16QAM	1	25	21.44	21.44	21.33			23
10	16QAM	1	49	21.44	21.48	21.36			
10	16QAM	25	12	20.43	20.44	20.40			
10	16QAM	25	25	20.42	20.47	20.38			22
10	16QAM	50	0	20.40	20.51	20.38			
10	64QAM	1	0	20.37	20.46	20.31			
10	64QAM	1	25	20.43	20.52	20.39			22
10	64QAM	1	49	20.42	20.53	20.32			
10	64QAM	25	12	19.51	19.51	19.26			21
10	64QAM	25	25	19.42	19.44	19.32			
10	64QAM	50	0	19.43	19.47	19.31			
10	64QAM	50	12	19.47	19.46	19.35			
10	256QAM	1	25	17.39	17.42	17.24			19
10	256QAM	1	49	17.47	17.52	17.36			
10	256QAM	1	51	17.51	17.51	17.37			
10	256QAM	25	12	17.45	17.48	17.38			19
10	256QAM	25	25	17.40	17.34	17.52			
10	256QAM	50	0	17.46	17.53	17.51			19
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.40	21.54	21.36			
5	QPSK	1	12	21.41	21.44	21.36			
5	QPSK	1	24	21.40	21.46	21.31			23
5	QPSK	1	40	21.54	21.56	21.40			
5	QPSK	12	7	21.45	21.50	21.34			23
5	QPSK	12	13	21.47	21.42	21.31			
5	QPSK	12	13	21.35	21.49	21.32			
5	16QAM	1	0	21.48	21.43	21.34			
5	16QAM	1	12	21.42	21.42	21.34			23
5	16QAM	1	14	21.47	21.47	21.31			
5	16QAM	12	0	20.44	20.47	20.29			
5	16QAM	12	7	20.38	20.45	20.29			22
5	16QAM	12	13	20.38	20.41	20.43			
5	16QAM	25	0	20.38	20.50	20.39			
5	64QAM	1	0	20.39	20.47	20.37			22
5	64QAM	1	12	20.39	20.52	20.36			
5	64QAM	1	24	20.45	20.48	20.28			
5	64QAM	12	0	19.39	19.47	19.32			21
5	64QAM	12	13	19.47	19.41	19.31			
5	64QAM	12	13	19.41	19.45	19.32			
5	64QAM	25	0	19.43	19.45	19.33			
5	64QAM	25	12	17.49	17.47	17.37			
5	256QAM	1	12	17.41	17.42	17.27			19
5	256QAM	1	24	17.39	17.51	17.36			
5	256QAM	1	24	17.54	17.53	17.63			
5	256QAM	12	7	17.44	17.50	17.51			19
5	256QAM	12	13	17.45	17.46	17.51			
5	256QAM	25	0	17.53	17.56	17.60			
Channel									
Frequency (MHz)									
3	QPSK	1	0	21.39	21.51	21.31			
3	QPSK	1	8	21.49	21.46	21.39			23
3	QPSK	1	14	21.42	21.46	21.39			
3	QPSK	1	15	21.45	21.50	21.31			
3	QPSK	8	4	21.49	21.49	21.35			23
3	QPSK	8	7	21.49	21.47	21.29			
3	QPSK	8	15	21.43	21.50	21.37			
3	16QAM	1	0	21.50	21.41	21.26			23
3	16QAM	1	8	21.42	21.43	21.34			
3	16QAM	1	15	21.51	21.46	21.32			
3	16QAM	8	0	20.43	20.49	20.36			
3	16QAM	8	4	20.38	20.45	20.37			22
3	16QAM	8	15	20.41	20.44	20.26			
3	16QAM	15	0	20.47	20.51	20.38			
3	64QAM	1	0	20.46	20.42	20.29			22
3	64QAM	1	20	20.45	20.50	20.33			
3	64QAM	1	14	20.45	20.54	20.34			
3	64QAM	8	0	19.43	19.45	19.26			21
3	64QAM	8	15	19.43	19.53	19.38			
3	64QAM	8	7	19.44	19.45	19.36			
3	64QAM	15	0	17.46	17.48	17.35			
3	256QAM	1	8	17.39	17.48	17.24			19
3	256QAM	1	15	17.46	17.45	17.33			
3	256QAM	8	0	17.52	17.48	17.59			
3	256QAM	8	4	17.38	17.53	17.62			19
3	256QAM	8	15	17.40	17.47	17.48			
3	256QAM	15	0	17.53	17.57	17.62			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	21.38	21.47	21.39			
1.4	QPSK	1	5	21.49	21.47	21.39			
1.4	QPSK	1	8	21.35	21.47	21.32			23
1.4	QPSK	3	1	21.46	21.46	21.35			
1.4	QPSK	3	2	21.44	21.46	21.33			23
1.4	QPSK	3	2	21.44	21.46	21.33			
1.4	16QAM	1	0	21.45	21.46	21.27			
1.4	16QAM	1	8	21.42	21.43	21.34			23
1.4	16QAM	1	15	21.51	21.46	21.32			
1.4	16QAM	8	0	20.44	20.52	20.35			22
1.4	16QAM	8	0	20.39	20.44	20.35			
1.4	16QAM	8	8	20.44	20.48	20.33			
1.4	16QAM	1	0	20.50	20.48	20.28			22
1.4	16QAM	3	0	20.51	20.41	20.21			
1.4	16QAM	3	0	20.51	20.48	20.28			
1.4	16QAM	3	0	20.50	20.48	20.28			
1.4	16QAM	6	0	19.51	19.49	19.32			21
1.4	16QAM	6	8	19.51	19.51	19.32			
1.4	16QAM	1	3	17.41	17.48	17.34			
1.4	16QAM	1	15	17.47	17.47	17.34			
1.4	16QAM	3	0	17.48	17.48	17.36			19
1.4	16QAM	3	0	17.48	17.56	17.67			
1.4	16QAM	1	3	17.44	17.48	17.37			



Band 4_Ant 2															
BW [MHz]	Modulation	RB Size	RB Offset	Power Ch./F.Freq.	Power Hsp Ch./F.Freq.	Power Hsp Ch./F.Freq.	Turn-up time (sec)	MPR (dB)							
Channel															
Frequency [MHz]															
20	QPSK	1	0	22.63	22.65	22.8	23.5	0							
20	QPSK	1	49	22.63	22.43	22.7									
20	QPSK	1	99	22.41	22.49	22.85									
20	QPSK	0	0	22.47	22.61	22.66	23.5	0							
20	QPSK	0	49	22.47	22.45	22.64									
20	QPSK	0	99	22.45	22.43	22.84									
20	QPSK	100	0	22.4	22.46	22.63	23.5	0							
20	QPSK	100	49	22.4	22.41	22.63									
20	QPSK	1	49	22.45	22.41	22.85									
20	QPSK	1	99	22.47	22.46	22.66	23	0.5							
20	QPSK	1	99	22.46	22.29	22.12									
20	QPSK	100	50	22.01	22.13	21.2									
20	QPSK	100	0	22.04	22.11	21.11	23	0.5							
20	QPSK	1	0	22.17	22.22	22.35									
20	QPSK	1	49	22.21	22.16	22.32	23	0.5							
20	QPSK	1	99	22.2	22.21	22.17									
20	QPSK	100	24	20.87	21.13	21.18									
20	QPSK	100	50	21.07	21.11	21.18	22	1.5							
20	QPSK	100	0	21.04	21.13	21.11									
20	QPSK	1	49	19.06	19.21	19.36									
20	QPSK	1	99	19.16	19.13	19.14	20	3.5							
20	QPSK	1	99	19.01	18.09	19.13									
20	QPSK	100	50	18.93	18.08	19.25									
20	QPSK	100	50	18.93	18.05	19.31	20	3.5							
20	QPSK	100	50	18.83	18.03	19.06									
20	QPSK	100	0	18.83	18.06	19.05									
Channel															
Frequency [MHz]															
15	QPSK	1	0	22.39	22.41	22.87	23.5	0							
15	QPSK	1	23	22.39	22.33	22.86									
15	QPSK	1	74	22.28	22.39	22.5									
15	QPSK	36	0	22.39	22.33	22.47	23.5	0							
15	QPSK	36	39	22.37	22.39	22.58									
15	QPSK	36	39	22.32	22.32	22.47									
15	QPSK	75	0	22.39	22.32	22.47	23.5	0							
15	QPSK	75	0	22.32	22.32	22.51									
15	QPSK	1	37	22.35	22.24	22.58									
15	QPSK	1	74	22.28	22.39	22.5	23	0.5							
15	QPSK	36	39	22.32	22.32	22.47									
15	QPSK	36	39	21.82	21.82	21.88									
15	QPSK	75	0	21.73	21.77	21.88	23	0.5							
15	QPSK	75	0	21.73	21.71	21.91									
15	QPSK	1	0	21.73	21.71	21.98									
15	QPSK	1	23	21.74	21.71	21.98	23	0.5							
15	QPSK	1	74	21.69	21.71	21.94									
15	QPSK	36	0	20.84	20.77	21.14									
15	QPSK	36	39	20.78	20.71	20.94	22	1.5							
15	QPSK	36	39	20.7	20.53	20.94									
15	QPSK	75	0	20.79	20.71	20.92									
15	QPSK	1	37	18.78	18.65	19.03	20	3.5							
15	QPSK	1	74	18.74	18.75	19.06									
15	QPSK	36	39	18.78	18.62	18.96									
15	QPSK	36	39	18.83	18.86	18.98	20	3.5							
15	QPSK	75	0	18.72	18.68	18.93									
15	QPSK	75	0	18.72	18.68	18.93									
Channel															
Frequency [MHz]															
10	QPSK	1	0	22.39	22.41	22.87	23.5	0							
10	QPSK	1	23	22.39	22.33	22.86									
10	QPSK	1	49	22.24	22.37	22.5									
10	QPSK	1	99	22.3	22.36	22.47	23.5	0							
10	QPSK	25	13	22.36	22.32	22.49									
10	QPSK	25	25	22.35	22.34	22.47									
10	QPSK	75	0	22.39	22.32	22.47	23.5	0							
10	QPSK	75	0	22.32	22.32	22.51									
10	QPSK	1	37	22.35	22.24	22.58									
10	QPSK	1	74	22.28	22.39	22.5	23	0.5							
10	QPSK	36	39	22.32	22.32	22.47									
10	QPSK	36	39	21.82	21.82	21.88									
10	QPSK	75	0	21.73	21.77	21.88	23	0.5							
10	QPSK	75	0	21.73	21.71	21.91									
10	QPSK	1	0	21.73	21.71	21.98									
10	QPSK	1	23	21.74	21.71	21.98	23	0.5							
10	QPSK	1	74	21.69	21.71	21.94									
10	QPSK	36	0	20.84	20.77	21.14									
10	QPSK	36	39	20.78	20.71	20.94	22	1.5							
10	QPSK	36	39	20.7	20.53	20.94									
10	QPSK	75	0	20.79	20.71	20.92									
10	QPSK	1	37	18.78	18.65	19.03	20	3.5							
10	QPSK	1	74	18.74	18.75	19.06									
10	QPSK	36	39	18.78											



Band 7_Ant 0									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Ch / Freqs	Power Hsp Ch / Freqs	Power Low Ch / Freqs	Tune-up (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.02	22.14	22.05			
20	QPSK	1	49	19.87	20.10	19.95			
20	QPSK	1	99	21.91	22.09	22.00			
20	QPSK	50	0	21.15	21.20	21.13			
20	QPSK	50	24	20.84	21.00	20.97			
20	QPSK	50	50	20.98	21.10	21.03			
20	QPSK	100	0	20.98	21.14	20.92			
20	QPSK	100	24	21.19	21.30	21.17			
20	16QAM	1	49	21.07	21.43	21.12			
20	16QAM	1	99	20.89	21.22	21.16			
20	16QAM	50	0	19.87	20.10	19.95			
20	16QAM	50	24	19.84	20.02	19.92			
20	16QAM	50	50	19.88	20.05	20.00			
20	16QAM	100	0	19.72	19.89	19.98			
20	64QAM	1	0	19.98	19.71	20.13			
20	64QAM	1	49	19.61	20.04	19.92			
20	64QAM	1	99	19.91	20.36	20.09			
20	64QAM	50	0	18.77	19.12	18.99			
20	64QAM	50	24	18.82	19.12	18.95			
20	64QAM	50	50	18.88	19.15	19.09			
20	64QAM	100	0	18.78	18.98	18.94			
20	256QAM	1	49	17.03	17.39	17.27			
20	256QAM	1	99	16.85	16.88	16.89			
20	256QAM	50	0	16.88	16.91	16.96			
20	256QAM	50	24	16.91	17.05	16.99			
20	256QAM	50	50	16.89	17.04	16.93			
20	256QAM	100	0	16.89	17.00	16.93			
Channel									
Frequency (MHz)									
18	QPSK	1	0	21.62	21.88	21.72			
18	QPSK	1	37	21.66	21.76	21.81			
18	QPSK	1	74	21.59	21.89	21.87			
18	QPSK	36	0	20.47	20.61	20.54			
18	QPSK	36	39	20.68	20.81	20.83			
18	QPSK	75	0	20.69	20.83	20.87			
18	16QAM	1	0	20.61	20.85	21.1			
18	16QAM	1	37	20.54	20.73	20.83			
18	16QAM	1	74	20.52	20.76	20.86			
18	16QAM	36	0	19.49	19.91	19.75			
18	16QAM	36	20	19.42	19.82	19.81			
18	16QAM	75	0	19.58	19.74	19.8			
18	64QAM	1	0	19.81	20.1	19.74			
18	64QAM	1	37	19.72	20.01	20.18			
18	64QAM	1	74	19.87	19.95	20.09			
18	64QAM	36	0	18.47	18.88	18.83			
18	64QAM	36	39	18.64	18.84	18.84			
18	64QAM	36	75	18.71	18.91	18.95			
18	256QAM	1	37	18.84	17.95	18.93			
18	256QAM	1	74	18.73	18.83	18.69			
18	256QAM	36	0	18.78	18.86	18.75			
18	256QAM	36	20	18.78	18.91	18.85			
18	256QAM	36	39	18.69	18.84	18.78			
18	256QAM	75	0	18.75	18.91	18.88			
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.65	21.00	21.075			
10	QPSK	1	25	21.31	21.71	21.72			
10	QPSK	1	49	21.39	21.77	21.75			
10	QPSK	25	0	20.43	20.58	20.57			
10	QPSK	25	13	20.4	20.8	20.74			
10	QPSK	25	25	20.47	20.82	20.7			
10	QPSK	25	49	20.68	20.97	20.97			
10	16QAM	1	0	20.31	20.69	20.81			
10	16QAM	1	25	20.55	21.14	20.86			
10	16QAM	1	49	20.58	21.18	20.96			
10	16QAM	25	0	19.26	19.79	19.78			
10	16QAM	25	13	19.25	19.83	19.87			
10	16QAM	25	25	19.39	19.81	19.86			
10	16QAM	50	0	19.5	19.88	19.73			
10	64QAM	1	0	19.14	19.87	19.78			
10	64QAM	1	25	19.34	19.89	19.85			
10	64QAM	1	49	19.69	19.94	19.83			
10	64QAM	25	0	18.48	18.73	18.77			
10	64QAM	25	13	18.33	18.81	18.86			
10	64QAM	25	25	18.44	18.98	18.9			
10	64QAM	50	0	18.58	18.83	18.92			
10	256QAM	1	0	17.05	17.07	16.91			
10	256QAM	1	25	16.97	17.05	17.00			
10	256QAM	1	49	16.76	16.81	16.74			
10	256QAM	25	0	16.82	16.87	16.90			
10	256QAM	25	13	16.77	16.98	16.86			
10	256QAM	25	25	16.77	16.82	16.82			
10	256QAM	50	0	16.81	16.92	16.83			
Channel									
Frequency (MHz)									
5	QPSK	1	0	21.4	21.61	21.68			
5	QPSK	1	12	21.38	21.71	21.72			
5	QPSK	1	24	21.33	21.84	21.87			
5	QPSK	12	0	20.43	20.74	20.65			
5	QPSK	12	7	20.41	20.57	20.62			
5	QPSK	12	13	20.52	20.8	20.78			
5	QPSK	25	0	20.36	20.73	20.65			
5	16QAM	1	0	20.4	21.2	21.1			
5	16QAM	1	12	20.48	21.26	20.85			
5	16QAM	1	24	20.48	20.69	21.18			
5	16QAM	12	0	19.48	19.71	19.84			
5	16QAM	12	7	19.35	19.61	19.92			
5	16QAM	12	13	19.36	19.69	19.77			
5	16QAM	25	0	19.37	19.67	19.95			
5	64QAM	1	0	19.4	19.86	19.98			
5	64QAM	1	12	19.65	19.87	20.11			
5	64QAM	1	24	19.59	19.83	20.15			
5	64QAM	12	0	18.41	18.71	18.74			
5	64QAM	12	7	18.41	18.89	18.8			
5	64QAM	12	13	18.39	18.69	18.85			
5	64QAM	25	0	18.42	18.74	19.04			
5	256QAM	1	0	17.02	17.02	16.92			
5	256QAM	1	12	16.98	17.08	16.92			
5	256QAM	1	24	16.72	16.85	16.83			
5	256QAM	12	0	16.79	16.96	16.81			
5	256QAM	12	7	16.84	16.85	16.84			
5	256QAM	12	13	16.79	16.85	16.81			
5	256QAM	25	0	16.79	16.86	16.76			

Band 7_Ant 1									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Ch / Freqs	Power Hsp Ch / Freqs	Power Low Ch / Freqs	Tune-up (sec)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	18.96	19.05	18.92			
20	QPSK	1	49	18.81	18.84	18.72			
20	QPSK	1	99	18.91	18.78	18.83			
20	QPSK	50	0	18.74	18.97	18.75			
20	QPSK	50	24	18.92	18.97	18.75			
20	QPSK	50	50	18.87	18.88	18.92			
20	16QAM	1	0	18.69	19.02	18.68			
20	16QAM	1	49	18.89	19.00	18.81			
20	16QAM	1	99	18.83	18.99	18.80			
20	16QAM	50	0	18.95	18.95	18.77			
20	16QAM	50	24	18.77	18.71	18.75			
20	16QAM	50	50	18.90	18.94	18.92			
20	16QAM	100	0	18.92	18.91	18.93			
20	64QAM	1	0	18.70	18.97	18.75			
20	64QAM	1	49	18.86	18.98	18.75			
20	64QAM	1	99	18.85	18.99	18.77			
20	64QAM	50	0	18.85	19.02	19.01			
20	64QAM	50	24	18.90	18.93	19.01			
20	64QAM	50	50	18.92	18.98	18.99			
20	64QAM	100	0	18.86	18.95	18.94			
20	256QAM	1	0	17.49	17.53	17.51			
20	256QAM	1	49	17.36	17.55	17.37			
20	256QAM	1	99	17.25	17.40	17.38			
20	256QAM	50	0	17.44	17.45	17.35			
20	256QAM	50	24	17.32	17.42	17.39			
20	256QAM	50	50	17.25	17.30	17.24			
20	256QAM	100	0	17.26	17.33	17.27			
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.07	20.15	20.05			
15	QPSK	1	0	18.88	19.00	18.83			
15	QPSK	1	37	18.93	18.99	18.89			
15	QPSK	1	74	18.79	18.75	18.72			
15	QPSK	36	0	18.71	18.90	18.89			
15	QPSK	36	20	18.83	18.84	18.85			
15	QPSK	75	0	18.87	18.90	18.75			
15	16QAM	1	0	18.87	18.90	18.75			
15	16QAM	1	37	18.83	18.96	18.72			
15	16QAM	1	74	18.74	18.75	18.75			
15	16QAM	36	0	18.53	18.90	18.89			
15	16QAM	36	20	18.70	18.68	18.70			
15	16QAM	36	39	18.95	18.82	18.97			
15	16QAM	75	0	18.72	18.75	18.77			
15	16QAM	75	20	18.68	18.73	18.68			
15	16QAM	1	37	18.84	18.90	18.65			
15	16QAM	1	74	18.82	18.89	18.74			
15	16QAM	36	0	18.53	18.90	18.88			
15	16QAM	36	20	18.74	18.82	18.95			
15	16QAM	36	39	18.97	18.89	18.91			
15	16QAM	75	0	18.75	18.78	18.75			
15	256QAM	1	0	17.37	17.49	17.45			
15	256QAM	1	37	17.33	17.50	17.34			
15	256QAM	1	74	17.20	17.35	17.25			
15	256QAM	36	0	17.36	17.41	17.24			
15	256QAM	36	20	17.20	17.38	17.29			
15	256QAM	36	39	17.25	17.24	17.25			
15	256QAM	75	0	17.28	17.37	17.17			
Channel									
Frequency (MHz)									
20	QPSK	1	0	18.90	19.03	18.85			
20	QPSK	1	20	18.87	18.82	18.68			
20	QPSK	1	40	18.95	18.87	18.78			
20	QPSK	24	0	18.85	18.85	18.65			
20	QPSK	24	12	18.87	18.79	18.71			
20	QPSK	24	24	18.75	18.75	18.75			
20	QPSK	50	0	18.75	18.78	18.75			
20	16QAM	1	0	18.82	18.90	18.71			
20	16QAM	1	20	18.90	18.85	18.70			
20	16QAM	1	40	18.93	18.88	18.74			
20	16QAM	24	0	18.77	18.93	18.72			
20	16QAM	24	12	18.85	18.87	18.68			
20	16QAM	24	24	18.75	18.82	18.77			
20	16QAM	50	0	18.87	18.93	18.78			
20	16QAM	50	24	18.88	18.82	18.90			
20	16QAM	100	0	18.78	18.72	18.77			
20	64QAM	1	0	18.75	18.93	18.78			
20	64QAM	1	20	18.87	18.88	18.71			
20	64QAM	1	40	18.94	18.86	18.73			
20	64QAM	24	0	18.80	18.97	18.76			
20	64QAM	24	12	18.75	18.84	18.81			
20	64QAM	24	24	18.68	18.87	18.89			
20	64QAM	50	0	18.87	18.93	18.78			
20	64QAM	50	24	18.88	18.82	18.90			
20	64QAM	100	0	18.78	18.72	18.77			
20	256QAM	1	0	17.37	17.49	17.45			
20	256QAM	1	20	17.34	17.45	17.32			
20	256QAM	1	40	17.20	17.35	17.25			
20	256QAM	24	0	17.33	17.38	17.23			
20	256QAM	24	12	17.28	17.49	17.33			
20	256QAM	24	24	17.25	17.24	17.25			
20	256QAM	50	0	17.37	17.43	17.25			
Channel									
Frequency (MHz)									
5	QPSK	1	0	18.93	19.01	18.85			
5	QPSK	1	12	18.89	18.88	18.62			
5	QPSK	1	24	18.91	18.74	18.71			
5	QPSK	12	0	18.72	18.92	18.82			
5	QPSK	12	12	18.85	18.82	18.64			
5	QPSK	12	24	18.75	18.83	18.83			
5	QPSK	24	0	18.74	18.83	18.74			
5	16QAM	1	0	18.58	18.94	18.77			
5	16QAM	1	12	18.82	18.88	18.74			
5	16QAM	1	24	18.83	18.84	18.68			
5	16QAM	12	0	18.53	18.91	18.73			
5	16QAM	12	12	18.65	18.86	18.66			
5	16QAM	12	24	18.56	18.94	18.93			
5	16QAM	24	0	18.74	18.74	18.67			
5	16QAM	24	12	18.87	18.87	18.78			
5	64QAM	1	0	18.57	18.91	18.72			
5	64QAM	1	12	18.56	18.94	18.69			
5	64QAM	1	24	18.58	18.84	18.69			
5	64QAM	12	0	18.76	18.88	18.80			
5	64QAM	12	12	18.95	18.84	18.84			
5	64QAM	12	24	18.86	18.83	18.66			
5	256QAM	1	0	17.40	17.43	17.40			
5	256QAM	1	12	17.32	17.44	17.29			
5	256QAM	1	24	17.18	17.31	17.28			
5	256QAM	12	0	17.38	17.33	17.22			
5	256QAM	12	12	17.20	17.33	17.37			
5	256QAM	12	24	17.16	17.27	17.28			
5	256QAM	24	0	17.36	17.37	17.18			

Band 12_Ant 0												
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Turn-up time (dB)	MPE (dB)				
Channel												
Frequency (MHz)												
10	QPSK	1	0	24.67	24.77	24.66	25.7	0				
10	QPSK	1	25	24.62	24.43	24.63						
10	QPSK	1	49	24.66	24.65	24.10						
10	QPSK	25	0	23.56	23.84	23.74	24.7	1				
10	QPSK	25	12	23.56	23.63	23.71						
10	QPSK	25	25	23.61	23.69	23.69						
10	QPSK	50	0	23.74	23.82	23.64	24.7	1				
10	16QAM	1	0	24.04	23.79	24.05						
10	16QAM	1	25	24.10	23.69	24.07						
10	16QAM	1	49	23.83	24.02	24.20	23.7	2				
10	16QAM	25	0	22.45	22.97	22.58						
10	16QAM	25	12	22.80	22.71	22.68						
10	16QAM	25	25	22.83	22.81	22.86	23.7	2				
10	16QAM	50	0	22.70	22.83	22.74						
10	16QAM	1	0	22.84	22.72	22.79						
10	8QAM	1	25	22.52	22.70	22.62	22.7	3				
10	8QAM	1	49	22.72	22.69	22.80						
10	8QAM	25	0	21.53	21.68	21.70						
10	8QAM	25	12	21.67	21.74	21.65	22.7	3				
10	8QAM	25	25	21.62	21.70	21.71						
10	8QAM	50	0	21.68	21.61	21.69						
10	256QAM	1	0	20.10	20.22	20.12	20.7	5				
10	256QAM	1	25	20.01	20.30	20.26						
10	256QAM	1	49	19.96	20.17	20.21						
10	256QAM	25	0	20.13	20.13	20.05	20.7	5				
10	256QAM	25	12	20.04	20.18	20.04						
10	256QAM	25	25	19.96	20.04	19.96						
10	256QAM	50	0	19.96	20.06	19.97	20.7	5				
Channel												
Frequency (MHz)												
5	QPSK	1	0	24.40	24.60	24.50				25.7	0	
5	QPSK	1	12	24.53	24.52	24.63						
5	QPSK	1	24	24.61	24.60	24.57						
5	QPSK	12	0	23.43	23.65	23.59	24.7	1				
5	QPSK	12	7	23.43	23.63	23.64						
5	QPSK	12	13	23.63	23.59	23.53						
5	QPSK	25	0	23.57	23.69	23.66	24.7	1				
5	16QAM	1	0	23.84	23.74	24.00						
5	16QAM	1	12	23.97	23.84	23.89						
5	16QAM	1	24	23.96	23.92	23.99	23.7	2				
5	16QAM	12	0	22.35	22.96	22.58						
5	16QAM	12	7	22.50	22.58	22.53						
5	16QAM	25	0	22.47	22.52	22.68	23.7	2				
5	8QAM	1	0	22.67	22.57	22.62						
5	8QAM	1	12	22.60	22.61	22.68						
5	8QAM	1	24	22.49	22.54	22.54	22.7	3				
5	8QAM	12	0	21.43	21.67	21.69						
5	8QAM	12	7	21.52	21.65	21.62						
5	8QAM	12	13	21.62	21.65	21.50	20.7	5				
5	256QAM	1	0	19.86	19.95	19.95						
5	256QAM	1	12	20.13	20.24	20.08						
5	256QAM	1	24	19.95	20.10	19.95	20.7	5				
5	256QAM	12	0	19.96	19.96	19.97						
5	256QAM	12	7	19.96	19.99	19.99						
5	256QAM	12	13	19.78	19.81	19.81	20.7	5				
5	256QAM	25	0	19.86	19.88	19.89						
Channel												
Frequency (MHz)												
3	QPSK	1	0	24.46	24.58	24.51	25.7	0				
3	QPSK	1	8	24.65	24.61	24.67						
3	QPSK	1	14	24.56	24.60	24.57						
3	QPSK	8	0	23.49	23.53	23.62	24.7	1				
3	QPSK	8	7	23.61	23.44	23.44						
3	QPSK	8	14	23.62	23.77	23.66						
3	16QAM	1	0	23.97	23.63	24.00	24.7	1				
3	16QAM	1	8	23.97	23.84	24.04						
3	16QAM	8	0	22.92	22.97	23.06	23.7	2				
3	16QAM	8	4	22.65	22.62	22.47						
3	16QAM	8	7	22.44	22.46	22.59						
3	16QAM	15	0	22.55	22.63	22.65	23.7	2				
3	8QAM	1	0	22.69	22.63	22.67						
3	8QAM	1	8	22.72	22.61	22.65						
3	8QAM	1	14	22.60	22.60	22.72	22.7	3				
3	8QAM	8	0	21.44	21.55	21.61						
3	8QAM	8	4	21.50	21.62	21.57						
3	8QAM	8	7	21.53	21.55	21.69	20.7	5				
3	256QAM	1	0	19.38	19.14	19.33						
3	256QAM	1	8	20.12	20.14	20.16						
3	256QAM	1	14	19.97	20.12	19.96	20.7	5				
3	256QAM	8	0	20.06	20.02	19.99						
3	256QAM	8	4	19.86	19.97	19.96						
3	256QAM	8	7	19.80	19.97	19.79	20.7	5				
3	256QAM	15	0	19.98	19.91	19.75						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	24.44	24.56	24.57	25.7	0				
1.4	QPSK	1	3	24.47	24.54	24.53						
1.4	QPSK	1	5	24.58	24.61	24.57						
1.4	QPSK	3	0	24.44	24.53	24.40	24.7	1				
1.4	QPSK	3	1	24.41	24.55	24.48						
1.4	QPSK	3	3	24.53	24.48	24.43						
1.4	16QAM	1	0	23.59	23.76	23.63	24.7	1				
1.4	16QAM	1	3	23.79	23.68	23.63						
1.4	16QAM	1	5	23.93	23.80	23.98						
1.4	16QAM	3	0	23.15	23.44	24.15	23.7	2				
1.4	16QAM	3	3	23.63	23.62	23.89						
1.4	16QAM	3	5	23.63	23.68	24.01						
1.4	16QAM	8	0	22.48	22.52	22.61	23.7	2				
1.4	8QAM	1	0	22.66	22.64	22.68						
1.4	8QAM	1	3	22.73	22.68	22.71						
1.4	8QAM	1	5	22.56	22.64	22.68	23.7	2				
1.4	8QAM	3	0	22.50	22.48	22.50						
1.4	8QAM	3	1	22.62	22.60	22.61						
1.4	8QAM	3	3	22.33	22.52	22.57	22.7	3				
1.4	8QAM	8	0	21.52	21.59	21.53						
1.4	256QAM	1	0	20.01	20.12	19.99						
1.4	256QAM	1	3	20.10	20.17	20.15	20.7	5				
1.4	256QAM	1	5	19.99	20.11	19.96						
1.4	256QAM	3	0	19.95	20.06	19.91						
1.4	256QAM	3	1	19.96	19.98	19.97	20.7	5				
1.4	256QAM	3	3	19.92	19.99	19.91						
1.4	256QAM	6	0	19.84	19.96	19.71						

Band 12_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Turn-up time (dB)	MPE (dB)	
Channel									
Frequency (MHz)									
10	QPSK	1	0	24.68	24.23	24.12	25.5	0	
10	QPSK	1	25	24.13	24.21	24.10			
10	QPSK	1	49	24.16	24.20	24.17			
10	QPSK	25	0	23.68	23.27	23.24	24.5	1	
10	QPSK	25	12	23.20	23.25	23.21			
10	QPSK	25	25	23.03	23.16	23.14			
10	QPSK	50	0	23.15	23.28	23.21	24.5	1	
10	16QAM	1	0	23.92	23.98	23.97			
10	16QAM	1	25	23.99	23.49	23.30			
10	16QAM	1	49	23.42	23.45	23.43	23.5	2	
10	16QAM	25	0	22.99	22.17				
10	16QAM	25	12	22.52	22.31	22.24			
10	16QAM	25	25	22.19	22.10	22.04	23.5	2	
10	16QAM	50	0	22.26	22.20	22.26			
10	16QAM	50	25	22.23	22.23	22.23			
10	16QAM	1	25	23.31	23.37	23.32	22.5	2	
10	16QAM	1	49	22.42	22.34	22.28			
10	16QAM	1	73	22.45	22.37	22.37			
10	16QAM	25	12	21.25	21.26	21.27	22.5	3	
10	16QAM	25	25	21.22	21.15	21.11			
10	16QAM	25	49	21.14	21.15	21.25			
10	16QAM	1	0	19.58	19.69	19.61	20.5	5	
10	16QAM	1	25	18.71	18.72	18.93			
10	16QAM	1	49	18.72	18.74	18.95			
10	16QAM	25	0	19.42	19.51		20.5	5	
10	16QAM	25	12	19.42	19.58	19.45			
10	16QAM	25	25	19.43	19.41	19.45			
10	16QAM	50	0	19.54	19.58	19.61	Turn-up time (dB)	MPE (dB)	
10	16QAM	50	25	19.57	19.57	19.57			
10	16QAM	50	49	19.57	19.57	19.57			
Channel									
Frequency (MHz)									
5	QPSK	1	0	24.68	24.21	23.98	25.5	0	
5	QPSK	1	12	23.95	24.14	24.10			
5	QPSK	1	25	23.95	24.14	24.10			
5	QPSK	12	0	22.95	23.13	23.18	24.5	1	
5	QPSK	12	7	23.13	23.09	23.18			
5	QPSK	12	19	23.11	23.07	23.07			
5	QPSK	25	0	23.16	23.13	23.13	24.5	1	
5	16QAM	1	0	23.18	23.27	23.22			
5	16QAM	1	12	23.22	23.38	23.30			
5	16QAM	1	24	23.31	23.41	23.45	23.5	2	
5	16QAM	12	9	23.03	23.14	23.04			
5	16QAM	12	19	22.71	22.33	22.33			
5	16QAM	12	19	22.33	22.32	22.31	22.5	2	
5	16QAM	25	0	22.16	22.08	22.08			
5	16QAM	25	0	22.16	22.09	22.25			
5	16QAM	1	12	22.97	22.98	22.25	22.5	2	
5	16QAM	1	12	22.97	22.98	22.25			
5	16QAM	1	12	22.97	22.98	22.25			
5	16QAM	12	7	21.18	21.10	21.23	22.5	3	
5	16QAM	12	19	21.24	21.15	21.01			
5	16QAM	12	19	21.04	21.09	21.27			
5	16QAM	1	0	19.41	19.50	19.61	20.5	5	
5	16QAM	1	12	18.66	18.68	19.02			
5	16QAM	1	12	18.67	18.68	19.02			
5	16QAM	12	0	19.24	19.35	19.37	20.5	5	
5	16QAM	12	7	18.33	18.40	18.46			
5	16QAM	12	19	18.46	18.46	18.46			
5	16QAM	25	0	19.51	19.51	19.46	Turn-up time (dB)	MPE (dB)	
5	16QAM	25	0	19.51	19.51	19.46			
5	16QAM	25	0	19.51	19.51	19.46			
Channel									
Frequency (MHz)									
3	QPSK	1	0	24.63	24.13	23.98	25.5	0	
3	QPSK	1	8	24.06	24.19	24.04			
3	QPSK	1	16	24.07	24.18	24.04			
3	QPSK	8	0	23.05	23.29	23.07	24.5	1	
3	QPSK	8	4	23.16	23.23	23.23			
3	QPSK	8	8	23.05	23.09	23.01			
3	QPSK	16	0	23.03	23.25	23.04	24.5	1	
3	16QAM	1	0	23.27	23.29	23.38			
3	16QAM	1	8	23.32	23.36	23.36			
3	16QAM	1	14	23.31	23.44	23.25	23.5	2	
3	16QAM	8	0	22.99	22.14	22.11			
3	16QAM	8	8	22.99	22.02	22.11			
3	16QAM	16	0	22.20	22.03	22.01	23.5	2	
3	16QAM	16	8	22.27	22.08	22.21			
3	16QAM	16	14	22.27	22.33	22.41			
3	16QAM	1	0	21.84	21.84	21.27	22.5	2	
3	16QAM	8	4	21.18	21.21	21.21			
3	16QAM	8	7	21.04	20.98	21.01			
3	16QAM	16	0	21.17	21.24	21.24	20.5	5	
3	16QAM	16	8	19.53	19.64	19.63			
3	16QAM	16	14	19.70	19.66	19.35			
3	16QAM	8	4	19.32	19.47	19.33	20.5	5	
3	16QAM	8	7	19.41	19.42	19.32			
3	16QAM	8	14	19.41	19.42	19.32			
3	16QAM	16	0	19.37	19.38	19.37	Turn-up time (dB)	MPE (dB)	
3	16QAM	16	0	19.37	19.38	19.37			
3	16QAM	16	0	19.37	19.38	19.37			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	23.87	24.08	23.95	25.5	0	
1.4	QPSK	1	3	23.94	23.97	24.00			
1.4	QPSK	1	6	23.97	23.98	24.00			
1.4	QPSK	3	0	23.74	23.92	23.84	24.5	1	
1.4	QPSK	3	3	23.85	23.89	23.86			
1.4	QPSK	3	6	23.85	23.87	23.89			
1.4	QPSK	6	0	23.94	23.95	23.98	24.5	1	
1.4	16QAM	1	0	23.10	23.11	23.16			
1.4	16QAM	1	3	23.14	23.10	23.23			
1.4	16QAM	1	6	23.14	23.10	23.23	24.5	1	
1.4	16QAM	3	0	22.28	22.96	23.05			
1.4	16QAM	3	3	23.18	23.15	23.24			
1.4	16QAM	3	6	23.05	23.04	23.24	23.0	2	
1.4	16QAM	6	0	21.92	21.89	22.00			
1.4	16QAM	6	3	21.98	21.92	22.00			
1.4	16QAM	1	0	22.06	22.12	22.08	23.5	2	
1.4	16QAM	1	3	22.14	22.07	22.20			
1.4	16QAM	1	6	22.14	22.07	22.20			
1.4	16QAM	3	0	21.97	21.98	21.93	22.5	3	
1.4	16QAM	3	3	21.98	21.88	21.97			
1.4	16QAM	3	6	21.89	21.86	21.97			
1.4	16QAM	6	0	19.34	19.57	19.51	20.5	5	
1.4	16QAM	6	3	19.48	19.47	19.41			
1.4	16QAM	6	6	19.45	19.47	19.41			
1.4	16QAM	3	0	19.24	19.36	19.23	20.5	5	
1.4	16QAM	3	3	19.19	19.32	19.31			
1.4	16QAM	3	6	19.28	19.29	19.31			
1.4	16QAM	6	0	19.30	19.29	19.33	20.5	5	
1.4	16QAM	6	3	19.30	19.29	19.33			
1.4	16QAM	6	6	19.30	19.29	19.33			



Band 17_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. (2376)	Power Med Ch / Freq. (2376)	Power High Ch / Freq. (2376)	Turn-on time (sec)	MPE (dB)	
Channel									
Frequency (MHz)				710	711				
10	QPSK	1	0	24.75	24.76	24.72	25.7	0	
10	QPSK	1	25	24.65	24.74	24.70			
10	QPSK	1	49	24.61	24.67	24.68			
10	QPSK	25	0	23.68	23.80	23.70			
10	QPSK	25	12	23.65	23.72	23.68			
10	QPSK	25	25	23.61	23.65	23.64	24.7	1	
10	QPSK	50	0	23.68	23.76	23.72			
10	QPSK	50	1	23.69	24.08	24.08			
10	16QAM	1	25	23.75	24.18	24.15			
10	16QAM	1	49	23.68	24.19	24.20			
10	16QAM	1	0	22.87	22.70	22.78	23.7	2	
10	16QAM	25	12	22.84	22.63	22.76			
10	16QAM	25	25	22.88	22.94	22.82			
10	16QAM	50	0	22.87	22.70	22.68			
10	16QAM	1	0	22.86	22.65	22.60			
10	16QAM	1	25	22.86	22.89	22.80	23.7	2	
10	16QAM	1	49	23.02	22.80	22.73			
10	16QAM	25	0	21.85	21.82	21.82			
10	16QAM	25	12	21.70	21.71	21.68			
10	16QAM	25	25	21.68	21.73	21.68			
10	16QAM	50	0	21.69	21.73	21.68	22.7	3	
10	16QAM	50	1	21.69	21.79	21.68			
10	16QAM	1	25	20.18	20.13	20.13			
10	16QAM	1	49	20.10	20.21	20.16			
10	16QAM	25	12	20.07	20.15	20.05			
10	16QAM	25	25	20.00	20.08	20.06	20.7	5	
10	16QAM	50	0	19.97	20.04	19.98			
Channel									
Frequency (MHz)				706.5 <th>707</th> <th>706.5</th> <th>Turn-on time (sec)</th> <th>MPE (dB)</th> <th></th>	707	706.5	Turn-on time (sec)	MPE (dB)	
5	QPSK	1	0	24.39	24.40	24.50	25.7	0	
5	QPSK	1	12	24.49	24.60	24.60			
5	QPSK	1	24	24.64	24.62	24.62			
5	QPSK	12	0	23.55	23.67	23.56			
5	QPSK	12	7	23.59	23.60	23.60			
5	QPSK	12	13	23.60	23.51	23.52	24.7	1	
5	QPSK	25	0	23.61	23.64	23.58			
5	16QAM	1	0	23.54	23.56	23.50			
5	16QAM	1	12	23.61	24.14	24.02			
5	16QAM	1	24	23.70	24.04	24.08			
5	16QAM	12	0	22.59	22.58	22.64	23.7	2	
5	16QAM	12	7	22.61	22.65	22.69			
5	16QAM	12	13	22.54	22.57	22.48			
5	16QAM	25	0	22.50	22.58	22.49			
5	16QAM	25	0	22.56	22.59	22.60			
5	16QAM	1	0	22.50	22.57	22.52	23.7	2	
5	16QAM	12	0	21.53	21.53	21.53			
5	16QAM	12	7	21.53	21.63	21.65			
5	16QAM	12	13	21.60	21.55	21.51			
5	16QAM	25	0	21.50	21.68	21.47			
5	16QAM	1	0	20.15	20.18	20.03	20.7	5	
5	16QAM	1	12	20.04	20.07	20.01			
5	16QAM	1	24	20.00	20.11	20.06			
5	16QAM	12	0	19.87	19.98	19.86			
5	16QAM	12	7	20.00	19.98	19.96			
5	16QAM	12	13	19.91	20.10	19.85	20.7	5	
5	16QAM	25	0	19.93	20.00	19.90			

Band 17_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Turn-on time (sec)	MPE (dB)	
Channel									
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.02	24.16	24.00	25.5	0	
10	QPSK	1	25	24.01	24.04	23.95			
10	QPSK	1	49	23.98	24.02	23.91			
10	QPSK	25	0	23.07	23.17	23.11			
10	QPSK	25	12	22.99	23.08	23.02			
10	QPSK	25	25	23.02	23.03	23.04	24.5	1	
10	QPSK	50	0	22.88	23.15	23.10			
10	16QAM	1	0	23.21	23.19	23.22			
10	16QAM	1	25	23.24	23.27	23.19			
10	16QAM	1	49	23.27	23.32	23.36			
10	16QAM	25	0	21.98	22.03	22.04	23.5	2	
10	16QAM	25	12	21.97	22.02	22.01			
10	16QAM	25	25	21.96	22.01	22.01			
10	16QAM	50	0	22.08	22.03	21.99			
10	16QAM	1	0	22.07	22.16	22.11			
10	16QAM	1	25	22.16	22.21	22.22	23.5	2	
10	16QAM	1	49	22.32	22.29	22.34			
10	16QAM	25	0	20.95	21.07	21.07			
10	16QAM	25	12	20.97	21.03	20.97			
10	16QAM	25	25	20.96	21.04	20.96			
10	16QAM	50	0	21.02	20.96	21.00	22.5	3	
10	16QAM	50	1	21.02	21.08	21.00			
10	16QAM	1	25	19.45	19.61	19.55			
10	16QAM	1	49	19.49	19.65	19.44			
10	16QAM	25	0	19.34	19.45	19.27			
10	16QAM	25	12	19.30	19.41	19.30	20.5	5	
10	16QAM	25	25	19.39	19.41	19.33			
10	16QAM	50	0	19.27	19.38	19.23			
Channel									
Frequency (MHz)				706.5 <th>710</th> <th>713.5</th> <th>Turn-on time (sec)</th> <th>MPE (dB)</th> <th></th>	710	713.5	Turn-on time (sec)	MPE (dB)	
5	QPSK	1	0	23.85	24.08	23.87	25.5	0	
5	QPSK	1	12	23.92	24.01	24.00			
5	QPSK	1	24	23.93	23.90	23.90			
5	QPSK	12	0	22.82	23.07	23.07			
5	QPSK	12	7	22.87	22.94	23.01			
5	QPSK	12	13	22.84	22.96	22.85	24.5	1	
5	QPSK	25	0	22.84	23.08	22.83			
5	16QAM	1	0	23.05	23.09	23.08			
5	16QAM	1	12	23.14	23.21	23.20			
5	16QAM	1	24	23.18	23.25	23.20			
5	16QAM	12	0	21.80	21.82	21.88	23.5	2	
5	16QAM	12	7	21.82	21.89	21.81			
5	16QAM	12	13	21.88	21.89	21.85			
5	16QAM	25	0	21.88	21.93	21.88			
5	16QAM	25	0	22.04	22.09	22.07			
5	16QAM	1	0	20.99	20.94	20.90	22.5	3	
5	16QAM	12	0	20.99	20.94	20.90			
5	16QAM	12	13	20.95	21.01	20.92			
5	16QAM	25	0	20.86	20.98	20.86			
5	16QAM	25	0	20.92	20.95	20.92			
5	16QAM	1	0	19.42	19.56	19.52	20.5	5	
5	16QAM	1	12	19.41	19.58	19.54			
5	16QAM	1	24	19.38	19.49	19.45			
5	16QAM	12	0	19.32	19.42	19.15			
5	16QAM	12	7	19.33	19.32	19.29			
5	16QAM	12	13	19.31	19.30	19.21	20.5	5	
5	16QAM	25	0	19.33	19.30	19.27			

Band 26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (W)	Power (W)	Power (W)	Turnup (s)	MPE (dB)
Frequency (MHz)				811.5	811.5	811.5	811.5		
15	QPSK	1	0	24.26	24.33	23.90		25.5	0
15	QPSK	1	37	24.12	23.98	23.92			
15	QPSK	1	74	24.07	24.05	23.87			
15	QPSK	36	0	23.05	23.14	23.04			
15	QPSK	36	20	23.01	23.08	23.03			
15	QPSK	36	36	23.04	23.02	23.01		24.5	1
15	QPSK	75	0	23.01	23.15	23.07			
15	16QAM	1	0	23.39	23.57	23.48			
15	16QAM	1	37	23.54	23.35	23.12			
15	16QAM	1	74	22.61	23.50	23.05			
15	16QAM	36	0	21.89	22.30	22.02		23.5	2
15	16QAM	36	20	21.91	21.97	22.07			
15	16QAM	36	36	22.05	21.99	22.00			
15	16QAM	75	0	22.00	21.96	22.00			
15	16QAM	1	0	22.20	22.31	22.24		23.0	2
15	16QAM	1	37	22.32	22.42	22.37			
15	16QAM	1	74	22.26	22.30	22.29			
15	16QAM	36	0	22.35	22.37	22.35			
15	16QAM	36	20	22.36	22.33	22.30			
15	16QAM	36	36	22.50	22.48	22.48		22.5	3
15	16QAM	75	0	22.48	22.51	22.48			
15	16QAM	75	0	22.52	22.50	22.51			
15	25QAM	1	0	19.38	19.40	19.33			
15	25QAM	1	37	19.42	19.39	19.35			
15	25QAM	1	74	19.39	19.29	19.20		20.5	5
15	25QAM	36	0	19.35	19.42	19.22			
15	25QAM	36	20	19.42	19.38	19.35			
15	25QAM	36	36	19.25	19.29	19.21			
15	25QAM	75	0	19.30	19.38	19.25			
15	25QAM	75	0	19.38	19.35	19.31		20.5	5
15	25QAM	75	0	19.35	19.38	19.25			
15	25QAM	75	0	19.38	19.35	19.31			
15	25QAM	75	0	19.35	19.38	19.25			
15	25QAM	75	0	19.38	19.35	19.31			
Frequency (MHz)				819	811.5	844	811.5		
10	QPSK	1	0	24.22	24.33	23.92		25.5	0
10	QPSK	1	25	24.11	23.69	23.81			
10	QPSK	1	50	23.99	23.69	23.75			
10	QPSK	25	0	22.86	22.99	22.95			
10	QPSK	25	12	22.81	22.94	22.88			
10	QPSK	25	25	22.95	22.93	22.90		24.5	1
10	QPSK	50	0	22.89	22.98	22.94			
10	16QAM	1	0	23.30	23.39	23.29			
10	16QAM	1	25	23.42	23.33	23.25			
10	16QAM	1	50	22.74	23.34	23.01			
10	16QAM	25	0	21.87	21.90	21.88		24.5	1
10	16QAM	25	12	21.94	21.85	22.01			
10	16QAM	25	25	21.90	21.81	21.97			
10	16QAM	50	0	21.84	21.91	21.85			
10	16QAM	1	0	22.13	22.12	22.10		23.5	2
10	16QAM	1	25	22.13	22.33	22.29			
10	16QAM	25	0	22.19	22.17	22.25			
10	16QAM	25	12	22.03	22.09	22.10			
10	16QAM	25	25	22.12	22.04	22.06			
10	16QAM	50	0	20.88	20.90	20.90		22.5	3
10	16QAM	50	12	20.94	20.94	20.95			
10	25QAM	1	0	19.22	19.34	19.25			
10	25QAM	1	25	19.29	19.29	19.44			
10	25QAM	1	50	19.34	19.10	19.30			
10	25QAM	25	0	19.20	19.20	19.12		20.5	5
10	25QAM	25	12	19.15	19.33	19.28			
10	25QAM	25	25	19.15	19.20	19.11			
10	25QAM	50	0	19.25	19.34	19.12			
10	25QAM	50	12	19.25	19.34	19.12			



Band 66_Ant 0

Band 66 Ant 0											
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freq	Power Mod Ch / Freq	Power Mod Ch / Freq	Turn-up time (sec)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.81	21.86	21.73	23	0			
20	QPSK	1	49	19.73	19.88	19.77					
20	QPSK	1	99	21.73	21.78	21.71	22	1			
20	QPSK	0	0	20.82	20.85	20.88					
20	QPSK	50	20	20.75	20.89	20.81	22	1			
20	QPSK	50	50	20.78	20.93	20.76					
20	QPSK	100	0	20.77	20.83	20.75	22	1			
20	QPSK	100	50	20.88	21.21	21.13					
20	16QAM	1	49	20.97	20.93	21.02	21	2			
20	16QAM	1	99	21.09	21.12	21					
20	16QAM	50	20	19.83	19.88	19.85	21	2			
20	16QAM	50	50	19.88	19.87	19.85					
20	16QAM	100	0	19.85	19.86	19.85	21	2			
20	16QAM	100	50	19.84	20.23	20.1					
20	16QAM	1	99	19.83	19.88	19.77	20	3			
20	16QAM	50	20	19.83	19.88	19.85					
20	16QAM	50	50	19.84	19.88	19.85	20	3			
20	16QAM	100	0	19.85	20.36	20.11					
20	256QAM	1	49	17.03	17.18	17.05	18	5			
20	256QAM	1	99	17.01	17.13	17.08					
20	256QAM	50	20	16.84	16.86	16.75	18	5			
20	256QAM	50	50	16.84	16.89	16.75					
20	256QAM	100	0	16.84	16.89	16.82	18	5			
20	256QAM	100	50	16.84	16.89	16.82					
Channel											
Frequency (MHz)											
15	QPSK	1	0	21.8	21.83	21.83	23	0			
15	QPSK	1	49	19.87	19.88	19.81					
15	QPSK	1	99	21.82	21.72	21.72	22	1			
15	QPSK	0	0	20.79	20.82	20.82					
15	QPSK	36	39	20.81	20.88	20.85	22	1			
15	QPSK	36	39	20.87	20.89	20.75					
15	QPSK	75	0	20.86	20.83	20.75	22	1			
15	QPSK	75	0	20.81	21.08	21.11					
15	16QAM	1	37	20.97	20.88	20.9	21	1			
15	16QAM	1	74	19.87	19.77	19.85					
15	16QAM	36	39	19.87	19.77	19.85	21	2			
15	16QAM	36	39	19.82	19.99	19.82					
15	16QAM	75	0	19.85	19.72	19.84	21	2			
15	16QAM	75	0	19.73	20.1	20.01					
15	16QAM	1	74	19.8	19.71	19.88	20	3			
15	16QAM	36	39	19.83	19.71	19.87					
15	16QAM	36	39	19.87	19.77	19.85	20	3			
15	16QAM	75	0	19.82	19.87	19.86					
15	256QAM	1	37	17.04	17.12	17.08	18	5			
15	256QAM	1	74	16.96	17.12	17.05					
15	256QAM	36	39	16.88	16.86	16.85	18	5			
15	256QAM	36	39	16.83	16.86	16.75					
15	256QAM	75	0	16.81	16.81	16.83	18	5			
15	256QAM	75	0	16.83	16.92	16.84					
Channel											
Frequency (MHz)											
10	QPSK	1	0	21.81	21.83	21.83	23	0			
10	QPSK	1	49	19.73	19.88	19.77					
10	QPSK	1	99	21.73	21.78	21.71	22	1			
10	QPSK	0	0	20.79	20.82	20.82					
10	QPSK	25	12	20.77	20.8	20.82	22	1			
10	QPSK	25	25	20.78	20.84	20.75					
10	16QAM	1	0	20.87	21.09	21.15	22	1			
10	16QAM	1	25	20.82	20.81	21.02					
10	16QAM	25	12	19.73	19.85	19.87	21	2			
10	16QAM	25	12	19.68	19.89	19.81					
10	16QAM	50	20	19.72	19.81	19.84	21	2			
10	16QAM	50	50	19.83	19.78	19.75					
10	16QAM	1	0	19.85	20.12	20.08	21	2			
10	16QAM	1	25	19.82	20.35	20.04					
10	16QAM	1	49	19.8	19.84	19.73	20	3			
10	16QAM	25	0	19.87	19.75	19.75					
10	16QAM	25	12	19.82	19.87	19.85	20	3			
10	16QAM	50	20	19.82	19.87	19.85					
10	256QAM	1	37	17.01	17.12	17.06	18	5			
10	256QAM	1	74	16.96	17.12	17.09					
10	256QAM	36	39	16.88	16.88	16.85	18	5			
10	256QAM	36	39	16.87	16.92	16.84					
10	256QAM	75	0	16.83	16.83	16.85	18	5			
10	256QAM	75	0	16.84	16.89	16.82					
Channel											
Frequency (MHz)											
5	QPSK	1	0	21.81	21.83	21.83	23	0			
5	QPSK	1	12	21.82	21.81	21.82					
5	QPSK	1	24	21.82	21.75	21.7	22	1			
5	QPSK	12	0	20.79	20.83	20.82					
5	QPSK	12	7	20.63	20.69	20.74	22	1			
5	QPSK	12	13	20.68	20.68	20.63					
5	QPSK	12	13	20.63	20.65	20.62	22	1			
5	QPSK	12	13	20.68	20.69	20.65					
5	16QAM	1	0	20.87	21.12	21.07	22	1			
5	16QAM	1	12	20.85	20.89	20.85					
5	16QAM	1	24	20.86	21.1	21.08	21	2			
5	16QAM	12	0	19.57	19.82	19.74					
5	16QAM	12	7	19.57	19.82	19.74	21	2			
5	16QAM	12	13	19.74	19.81	19.75					
5	16QAM	25	0	19.57	19.82	19.74	21	2			
5	16QAM	25	0	19.58	20.23	20.02					
5	16QAM	25	7	19.74	20.17	19.87	21	2			
5	16QAM	25	13	19.67	19.71	19.84					
5	16QAM	12	0	19.85	19.76	19.75	20	3			
5	16QAM	12	13	19.83	19.83	19.88					
5	16QAM	25	0	19.83	19.83	19.88	20	3			
5	16QAM	25	0	19.82	19.89	19.81					
5	256QAM	1	37	17.47	17.48	17.47	18	5			
5	256QAM	1	74	17.02	17.13	17.09					
5	256QAM	1	24	16.97	17.03	17.09	18	5			
5	256QAM	1	24	16.97	17.03	17.09					
5	256QAM	12	7	16.78	16.91	16.76	18	5			
5	256QAM	12	13	16.74	17.06	16.96					
5	256QAM	25	0	16.83	16.86	16.86	18	5			
5	256QAM	25	0	16.83	16.86	16.86					
Channel											
Frequency (MHz)											
3	QPSK	1	0	21.81	21.83	21.83	23	0			
3	QPSK	1	8	21.82	21.81	21.82					
3	QPSK	1	14	21.74	21.64	21.6	22	1			
3	QPSK	1	20	20.79	20.83	20.88					
3	QPSK	8	7	20.67	20.6	20.67	22	1			
3	QPSK	8	7	20.75	20.82	20.82					
3	16QAM	1	0	20.76	21.17	21.07	22	1			
3	16QAM	1	8	20.84	20.83	20.85					
3	16QAM	1	14	20.85	21.09	21.04	21	2			
3	16QAM	8	0	19.6	19.76	19.73					
3	16QAM	8	4	19.58	19.97	19.74	21	2			
3	16QAM	8	7	19.67	19.81	19.71					
3	16QAM	15	0	19.63	19.8	19.59	21	2			
3	16QAM	15	0	19.8	20.12	20.09					
3	16QAM	15	8	19.8	20.35	20.04	21	2			
3	16QAM	15	8	19.68	19.77	19.76					
3	16QAM	8	7	19.67	19.82	19.7	20	3			
3	16QAM	8	7	19.87	19.81	19.87					
3	16QAM	8	7	19.85	19.84	19.89	20	3			
3	16QAM	15	0	19.83	19.81	19.87					
3	256QAM	1	0	17.04	16.98	16.99	18	5			
3	256QAM	1	8	17.07	17.19	17.08					
3	256QAM	8	0	16.93	17.06	16.95	18	5			
3	256QAM	8	0	16.93	16.94	16.85					
3	256QAM	8	4	16.81	16.83	16.76	18	5			
3	256QAM	8	4	16.83	17.06	16.96					
3	256QAM	15	0	16.88	16.93	16.76	18	5			
3	256QAM	15	0	16.88	16.93	16.76					
Channel											
Frequency (MHz)											
1.4	QPSK	1	0	21.81	21.83	21.86	23	0			
1.4	QPSK	1	3	21.84	21.79	21.84					
1.4	QPSK	1	6	21.87	21.74	21.82	23	0			
1.4	QPSK	1	9	21.87	21.69	21.81					
1.4	QPSK	3	1	21.67	21.81	21.82	22	1			
1.4	QPSK	3	4	21.68	21.81	21.82					
1.4	QPSK	6	0	20.73	20.87	20.82	22	1			
1.4	QPSK	6	3	20.77	21.23	21.25					
1.4	16QAM	1	0	21.07	21.23	21.25	22	1			
1.4	16QAM	1	3	21.08	20.84	21.09					
1.4	16QAM	1	6	21.02	21.18	20.91	22	1			
1.4	16QAM	3	0	20.6	20.76	20.73					
1.4	16QAM	3	3	20.62	20.82	20.83	21	2			
1.4	16QAM	3	6	20.67	20.93	20.97					
1.4	16QAM	6	0	19.62	19.96	19.9	21	2			
1.4	16QAM	6	3	19.76	20.22	19.88					
1.4	16QAM	1	0	19.67	19.75	19.72	21	2			
1.4	16QAM	1	3	19.68	19.89	19.89					
1.4	16QAM	1	6	19.54	19.89	19.5	20	3			
1.4	16QAM	3	0	19.57	19.84	19.81					
1.4	256QAM	1	0	17.09	17.14	17.07	18	5			
1.4	256QAM	1	3	17.07	17.18	17.07					
1.4	256QAM	3	0	16.77	16.95	16.78	18	5			
1.4	256QAM	3	3	16.82	16.99	16.82					
1.4	256QAM	6	0	16.85	16.99	16.93	18	5			
1.4	256QAM	6	3	16.88	16.98	16.76					



Band 38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Peak Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.76	22.89	22.77			
20	QPSK	1	49	22.52	22.62	22.58	24	0	
20	QPSK	1	99	22.60	22.69	22.65			
20	QPSK	50	0	21.71	21.78	21.70			
20	QPSK	50	24	21.62	21.74	21.68	23	1	
20	QPSK	50	49	21.62	21.74	21.68			
20	QPSK	100	0	21.82	21.85	21.88			
20	16QAM	1	0	21.70	21.62	21.78	23	1	
20	16QAM	1	49	21.72	22.02	21.75			
20	16QAM	1	99	21.71	21.82	21.76			
20	16QAM	50	0	20.89	20.86	20.89			
20	16QAM	50	24	20.81	20.75	20.77	22	2	
20	16QAM	50	50	20.85	20.83	20.77			
20	16QAM	100	0	20.87	20.88	20.79			
20	64QAM	1	0	20.55	20.72	20.57			
20	64QAM	1	49	20.61	20.69	20.59	22	2	
20	64QAM	1	99	20.56	20.73	20.65			
20	64QAM	50	0	19.80	19.73	19.71			
20	64QAM	50	24	19.80	19.77	19.77	21	3	
20	64QAM	50	50	19.80	19.79	19.73			
20	64QAM	100	0	19.88	19.80	19.82			
20	256QAM	1	0	17.81	17.57	17.55			
20	256QAM	1	49	17.85	17.56	17.55	19	5	
20	256QAM	1	99	17.88	17.58	17.47			
20	256QAM	50	0	17.83	17.74	17.73			
20	256QAM	50	24	17.78	17.76	17.76	19	5	
20	256QAM	50	50	17.72	17.84	17.80			
20	256QAM	100	0	17.81	17.85	17.85			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.73	22.77	22.75			
15	QPSK	1	37	22.56	22.35	22.54	24	0	
15	QPSK	1	74	22.53	22.43	22.49			
15	QPSK	36	0	21.68	21.71	21.68			
15	QPSK	36	20	21.52	21.48	21.68	23	1	
15	QPSK	36	39	21.66	21.62	21.63			
15	16QAM	1	0	21.80	21.57	21.57			
15	16QAM	1	37	21.62	21.23	21.25	23	1	
15	16QAM	1	74	21.91	21.73	21.70			
15	16QAM	36	0	20.77	20.54	20.64			
15	16QAM	36	20	20.35	20.35	20.35	22	2	
15	16QAM	36	39	20.91	20.59	20.69			
15	16QAM	75	0	20.62	20.58	20.60			
15	64QAM	1	0	20.61	20.54	20.59			
15	64QAM	1	37	20.81	20.42	20.52	22	2	
15	64QAM	1	74	20.78	20.55	20.63			
15	64QAM	36	0	19.85	19.50	19.64			
15	64QAM	36	20	19.82	19.62	19.64	21	3	
15	64QAM	36	39	19.83	19.59	19.75			
15	64QAM	75	0	19.73	19.45	19.75			
15	256QAM	1	0	17.43	17.57	17.52			
15	256QAM	1	37	17.52	17.41	17.50	19	5	
15	256QAM	1	74	17.54	17.40	17.50			
15	256QAM	36	0	17.71	17.74	17.54			
15	256QAM	36	20	17.72	17.67	17.69	19	5	
15	256QAM	36	39	17.63	17.69	17.58			
15	256QAM	75	0	17.67	17.59	17.47			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.67	22.68	22.67			
10	QPSK	1	25	22.46	22.38	22.45	24	0	
10	QPSK	1	49	22.54	22.44	22.52			
10	QPSK	25	0	21.72	21.68	21.69			
10	QPSK	25	12	21.56	21.49	21.69	23	1	
10	QPSK	25	25	21.76	21.64	21.72			
10	QPSK	50	0	21.76	21.74	21.64			
10	16QAM	1	0	21.76	21.55	21.68	23	1	
10	16QAM	1	25	21.89	21.59	21.86			
10	16QAM	1	49	21.93	21.60	21.79			
10	16QAM	25	0	20.87	20.57	20.70			
10	16QAM	25	12	20.74	20.58	20.69	22	2	
10	16QAM	25	25	20.88	20.63	20.68			
10	16QAM	50	0	20.61	20.58	20.68			
10	64QAM	1	0	20.65	20.54	20.59			
10	64QAM	1	25	20.87	20.39	20.52	22	2	
10	64QAM	1	49	20.75	20.50	20.61			
10	64QAM	25	0	19.78	19.42	19.74			
10	64QAM	25	12	19.73	19.63	19.64	21	3	
10	64QAM	25	25	19.71	19.54	19.63			
10	64QAM	50	0	19.82	19.57	19.60			
10	256QAM	1	0	17.41	17.54	17.44			
10	256QAM	1	25	17.41	17.48	17.35	19	5	
10	256QAM	1	49	17.53	17.41	17.35			
10	256QAM	25	0	17.88	17.82	17.58			
10	256QAM	25	12	17.74	17.61	17.66	19	5	
10	256QAM	25	25	17.58	17.79	17.52			
10	256QAM	50	0	17.48	17.65	17.56			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.64	22.71	22.54			
5	QPSK	1	12	22.57	22.32	22.45	24	0	
5	QPSK	1	24	22.48	22.51	22.48			
5	QPSK	12	0	21.83	21.73	21.86			
5	QPSK	12	7	21.59	21.69	21.69	23	1	
5	QPSK	12	13	21.70	21.62	21.62			
5	QPSK	25	0	21.81	21.78	21.69			
5	16QAM	1	0	21.88	21.54	21.58	23	1	
5	16QAM	1	12	21.93	21.52	21.89			
5	16QAM	1	24	21.91	21.73	21.73			
5	16QAM	12	0	20.83	20.36	20.70			
5	16QAM	12	7	20.69	20.65	20.66	22	2	
5	16QAM	12	13	20.83	20.36	20.70			
5	16QAM	25	0	20.73	20.80	20.56			
5	64QAM	1	0	20.33	20.50	20.47			
5	64QAM	1	12	20.61	20.40	20.54	22	2	
5	64QAM	1	24	20.70	20.35	20.57			
5	64QAM	12	0	19.70	19.43	19.60			
5	64QAM	12	7	19.63	19.60	19.55	21	3	
5	64QAM	12	13	19.82	19.65	19.62			
5	64QAM	25	0	19.75	19.54	19.68			
5	256QAM	1	0	17.42	17.54	17.42			
5	256QAM	1	12	17.44	17.46	17.54	19	5	
5	256QAM	1	24	17.54	17.52	17.52			
5	256QAM	12	0	17.59	17.82	17.64			
5	256QAM	12	7	17.75	17.71	17.70	19	5	
5	256QAM	12	13	17.84	17.73	17.82			
5	256QAM	25	0	17.38	17.59	17.56			

Band 38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Peak Ch / Freq	Power High Ch / Freq	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	37.605	39.005	38.105			
20	QPSK	1	49	21.13	21.29	21.22	23	0	
20	QPSK	1	99	21.16	21.24	21.18			
20	QPSK	50	0	21.14	21.30	21.23			
20	QPSK	50	24	21.17	21.25	21.24	23	0	
20	QPSK	50	49	21.17	21.33	21.22			
20	16QAM	1	0	21.17	21.33	21.22			
20	16QAM	1	49	21.09	21.27	21.25			
20	16QAM	1	99	21.12	21.28	21.20			
20	16QAM	50	0	21.15	21.32	21.18			
20	16QAM	50	24	21.15	21.34	21.26	23	0	
20	16QAM	50	50	21.11	21.33	21.19			
20	16QAM	100	0	21.14	21.26	21.21			
20	64QAM	1	0	21.15	21.29	21.21			
20	64QAM	1	49	21.10	21.30	21.22	23	0	
20	64QAM	1	99	21.14	21.34	21.21			
20	64QAM	50	0	20.45	20.58	20.54			
20	64QAM	50	24	20.37	20.48	20.43	22	1	
20	64QAM	50	50	20.39	20.43	20.48			
20	64QAM	100	0	20.36	20.53	20.47			
20	256QAM	1	0	18.39	18.59	18.57			
20	256QAM	1	49	18.37	18.51	18.47	20	3	
20	256QAM	1	99	18.38	18.49	18.54			
20	256QAM	50	0	18.32	18.59	18.41			
20	256QAM	50	24	18.39	18.52	18.47	20	3	
20	256QAM	50	50	18.32	18.43	18.39			
20	256QAM	100	0	18.31	18.46	18.45			
Channel									
Frequency (MHz)									
15	QPSK	1	0	37.605	39.005	38.105			
15	QPSK	1	21	21.27	21.33	21.27			
15	QPSK	1	37	21.02	21.17	21.19	23	0	
15	QPSK	1	74	21.06	21.20	21.18			
15	QPSK	50	0	21.14	21.30	21.23			
15	QPSK	50	20	21.15	21.29	21.14	23	0	
15	QPSK	50	20	21.15	21.29	21.14			
15	QPSK	36	20	21.15	21.19	21.14			
15	QPSK	36	20	21.21	21.25	21.10			
15	QPSK	75	0	21.02	21.25	21.18			
15	16QAM	1	0	21.12	21.25	21.19	23	0	
15	16QAM	1	37	21.04	21.18	21.16			
15	16QAM	1	74	21.09	21.19	21.13			
15	16QAM	36	0	21.09	21.26	21.08			
15	16QAM	36	20	21.07	21.21	21.07	23	0	
15	16QAM	36	20	21.05	21.28	21.08			
15	16QAM	75	0	21.10	21.26	21.14			
15	16QAM	75	39	21.05	21.28	21.08			
15	64QAM	1	0	21.10	21.26	21.14			
15	64QAM	1	21	21.05	21.25	21.11	23	0	
15	64QAM	1	37	21.06	21.25	21.19			
15	64QAM	50	0	20.45	20.58	20.54			
15	64QAM	50	20	20.39	20.49	20.47	22	1	
15	64QAM	50	20	20.35	20.45	20.41			
15	64QAM	36	0	20.30	20.42	20.44			
15	64QAM	75	0	20.30	20.46	20.44			
15	256QAM	1	0	18.20	18.47	18.45			
15	256QAM	1	21	18.30	18.45	18.41	20	3	
15	256QAM	1	37	18.27	18.38	18.42			
15	256QAM	50	0	18.24	18.43	18.43			
15	256QAM	50	20	18.30	18.45	18.41	20	3	
15	256QAM	50	20	18.26	18.32	18.35			
15	256QAM	75	0	18.23	18.34	18.43			
Channel									
Frequency (MHz)									
10	QPSK	1	0	37.605	39.005	38.105			
10	QPSK	1	21	21.27	21.33	21.27			
10	QPSK	1	25	21.02	21.21	21.19	23	0	
10	QPSK	1	49	21.12	21.31	21.22			
10	QPSK	1	74	21.08	21.19	21.15			
10	QPSK	26	12	21.04	21.17	21.16			
10	QPSK	26	12	21.05	21.17	21.07	23	0	
10	QPSK	50	0	21.04	21.15	21.13			
10	16QAM	1	0	21.07	21.20	21.11			
10	16QAM	1	21	21.02	21.20	21.13	23	0	
10	16QAM	1	49	21.05	21.26	21.16			
10	16QAM	26	0	21.10	21.27	21.05			
10	16QAM	26	12	21.07	21.27	21.07	23	0	
10	16QAM	26	25	21.09	21.27	21.08			
10	64QAM	1	0	21.08	21.27	21.09			
10	64QAM	1	0	21.11	21.15	21.10			
10	64QAM	1	25	21.00	21.21	21.20	23	0	
10	64QAM	1	21	21.02	21.22	21.10			
10	64QAM	26	0	20.35	20.46	20.50			
10	64QAM	26	12	20.30	20.43	20.41	22	1	
10	64QAM	26	12	20.31	20.43	20.38			
10	64QAM	50	0	20.30	20.45	20.35			
10	256QAM	1	0	18.45	18.46	18.44			
10	256QAM	1	21	18.35	18.45	18.44	20	3	
10	256QAM	1	40	18.32	18.46	18.46			
10	256QAM	26	0	18.36	18.46	18.30			
10	256QAM	26	12	18.32	18.40	18.40	20	3	
10	256QAM	26	12	18.32	18.40	18.40			
10	256QAM	25	20	18.21	18.35	18.37			
10	256QAM	25	20	18.21	18.35	18.37			
Channel									
Frequency (MHz)									
5	QPSK	1	0	37.775	39.005	38.925			
5	QPSK	1	21	21.27	21.33	21.27			
5	QPSK	1	12	21.02	21.17	21.20	23	0	
5	QPSK	1	12	21.02	21.19	21.19			
5	QPSK	12	0	21.10	21.19	21.14			
5	QPSK	12	7	21.08	21.13	21.21	23	0	
5	QPSK	14	0	21.02	21.22	21.10			
5	QPSK	26	0	21.07	21.22	21.21			
5	16QAM	1	0	21.14	21.20	21.19			
5	16QAM	1	21	21.00	21.19	21.11	23	0	
5	16QAM	1	24	21.08	21.19	21.15			
5	16QAM	12	0	21.08	21.24	21.07			
5	16QAM	12	7	21.00	21.24	21.14			
5	16QAM	12	13	21.03	21.27	21.05			
5	16QAM	26	0	21.12	21.19	21.10			
5	16QAM	26	0	21.10	21.19	21.15	23	0	
5	64QAM	1	12	21.08	21.25	21.15			
5	64QAM	1	14	21.07	21.22	21.08			
5	64QAM	26	13	20.31	20.41	20.32	22	1	
5	64QAM	26	13	20.31	20.41	20.38			
5	64QAM	26	0	20.32	20.48	20.44			
5	256QAM	1	0	18.26	18.36	18.31			
5	256QAM	1	12	18.33	18.43	18.44	20	3	
5	256QAM	1	24	18.31	18.39	18.51			
5	256QAM	12	0	18.29	18.41	18.29			
5	256QAM	12	7	18.33	18.41	18.35			
5	256QAM	12	13	18.25	18.41	18.31	20	3	
5	256QAM	25	19	18.22	18.31	18.42			



Band 38_Ant 3											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)			
Channel											
Frequency (MHz)				37860	38000	38160					
20	QPSK	1	0	21.56	21.61	21.56	22.7	0			
20	QPSK	1	49	21.45	21.49	21.50					
20	QPSK	1	99	21.46	21.47	21.48					
20	QPSK	50	0	21.58	21.58	21.57					
20	QPSK	50	24	21.41	21.56	21.58	22.7	0			
20	QPSK	50	49	21.48	21.52	21.54					
20	QPSK	100	0	21.52	21.56	21.54					
20	16QAM	1	0	21.39	21.39	21.38					
20	16QAM	1	49	21.40	21.40	21.37	22.7	0			
20	16QAM	1	99	21.47	21.40	21.35					
20	16QAM	50	0	21.60	21.60	21.56					
20	16QAM	50	24	21.42	21.56	21.59					
20	16QAM	50	49	21.56	21.57	21.56	22.7	0			
20	16QAM	100	0	21.57	21.53	21.57					
20	16QAM	100	24	21.42	21.50	21.50					
20	16QAM	1	49	21.53	21.55	21.59					
20	QPSK	1	0	21.52	21.52	21.54	22.7	0			
20	QPSK	1	49	21.53	21.55	21.59					
20	QPSK	1	99	21.47	21.49	21.50					
20	QPSK	50	24	21.52	21.55	21.55					
20	QPSK	50	49	21.48	21.57	21.56	22.7	0			
20	QPSK	100	0	21.49	21.57	21.56					
20	25QAM	1	0	19.46	19.40	19.37					
20	25QAM	1	49	19.42	19.47	19.43					
20	25QAM	1	99	19.39	19.37	19.47	20.7	2			
20	25QAM	50	24	19.50	19.63	19.55					
20	25QAM	50	49	19.50	19.63	19.55					
20	25QAM	100	0	19.54	19.51	19.48					
Channel											
Frequency (MHz)				37825	38000	38175	Time-up limit (dBm)	MPE (dB)			
15	QPSK	1	0	21.72	21.75	21.73	22.7	0			
15	QPSK	1	37	21.49	21.41	21.41					
15	QPSK	1	74	21.40	21.42	21.46					
15	QPSK	36	0	21.85	21.87	21.48					
15	QPSK	36	20	21.34	21.53	21.52	22.7	0			
15	QPSK	36	37	21.45	21.47	21.48					
15	QPSK	75	0	21.41	21.54	21.42					
15	QPSK	75	20	21.41	21.53	21.42					
15	16QAM	1	0	21.25	21.27	21.34	22.7	0			
15	16QAM	1	37	21.25	21.28	21.34					
15	16QAM	1	74	21.40	21.38	21.27					
15	16QAM	36	0	21.48	21.42	21.45					
15	16QAM	36	20	21.52	21.53	21.54	22.7	0			
15	16QAM	36	39	21.54	21.53	21.44					
15	16QAM	75	0	21.51	21.49	21.55					
15	16QAM	75	20	21.52	21.53	21.54					
15	16QAM	1	37	21.51	21.49	21.49	22.7	0			
15	16QAM	1	74	21.51	21.50	21.51					
15	16QAM	36	0	21.45	21.56	21.47					
15	16QAM	36	20	21.44	21.49	21.44					
15	25QAM	1	0	21.47	21.52	21.49	20.7	2			
15	25QAM	1	37	19.42	19.31	19.33					
15	25QAM	1	74	19.52	19.47	19.41					
15	25QAM	36	0	19.50	19.26	19.45					
15	25QAM	36	20	19.49	19.52	19.52	20.7	2			
15	25QAM	75	0	19.49	19.48	19.48					
15	25QAM	75	20	19.48	19.48	19.48					
15	25QAM	75	0	19.42	19.31	19.46					
Channel											
Frequency (MHz)				37800	38000	38200	Time-up limit (dBm)		MPE (dB)		
10	QPSK	1	0	21.49	21.49	21.49	22.7	0			
10	QPSK	1	25	21.35	21.42	21.40					
10	QPSK	1	49	21.40	21.37	21.44					
10	QPSK	25	0	21.45	21.47	21.54					
10	QPSK	25	12	21.37	21.40	21.48	22.7	0			
10	QPSK	25	25	21.41	21.45	21.38					
10	QPSK	50	0	21.45	21.45	21.48					
10	QPSK	50	12	21.21	21.35	21.33					
10	16QAM	1	0	21.21	21.35	21.33	22.7	0			
10	16QAM	1	25	21.34	21.27	21.41					
10	16QAM	1	49	21.41	21.34	21.30					
10	16QAM	25	0	21.58	21.41	21.53					
10	16QAM	25	12	21.48	21.50	21.48	22.7	0			
10	16QAM	50	12	21.48	21.51	21.48					
10	16QAM	50	0	21.45	21.47	21.55					
10	16QAM	50	12	21.45	21.45	21.48					
10	16QAM	1	25	21.48	21.45	21.50	22.7	0			
10	16QAM	1	49	21.52	21.43	21.48					
10	16QAM	25	0	21.55	21.54	21.42					
10	16QAM	25	12	21.41	21.43	21.49					
10	16QAM	25	25	21.37	21.48	21.51	22.7	0			
10	16QAM	50	0	21.38	21.47	21.48					
10	25QAM	1	0	19.34	19.33	19.34					
10	25QAM	1	25	19.36	19.49	19.48					
10	25QAM	1	49	19.35	19.45	19.49	20.7	2			
10	25QAM	25	0	19.44	19.22	19.41					
10	25QAM	25	12	19.42	19.50	19.45					
10	25QAM	25	25	19.50	19.41	19.43					
10	25QAM	50	0	19.51	19.31	19.51	20.7	2			
10	25QAM	50	12	19.51	19.50	19.53					
10	25QAM	50	25	19.49	19.37	19.51					
10	25QAM	50	0	19.46	19.37	19.51					
Channel											
Frequency (MHz)				37775	38000	38225	Time-up limit (dBm)	MPE (dB)			
5	QPSK	1	0	21.49	21.49	21.49	22.7	0			
5	QPSK	1	12	21.41	21.42	21.43					
5	QPSK	1	24	21.43	21.43	21.43					
5	QPSK	12	0	21.49	21.57	21.54					
5	QPSK	12	7	21.39	21.48	21.53	22.7	0			
5	QPSK	24	0	21.49	21.57	21.54					
5	QPSK	24	0	21.46	21.51	21.52					
5	16QAM	1	0	21.20	21.20	21.38					
5	16QAM	1	12	21.30	21.30	21.47	22.7	0			
5	16QAM	12	7	21.31	21.34	21.47					
5	16QAM	1	24	21.37	21.38	21.27					
5	16QAM	12	7	21.37	21.37	21.53					
5	16QAM	12	7	21.43	21.50	21.58	22.7	0			
5	16QAM	12	13	21.46	21.47	21.51					
5	16QAM	24	0	21.51	21.51	21.46					
5	16QAM	1	0	21.37	21.41	21.48					
5	16QAM	1	12	21.44	21.43	21.47	22.7	0			
5	16QAM	1	24	21.44	21.43	21.51					
5	16QAM	12	13	21.41	21.51	21.50					
5	16QAM	24	0	21.39	21.51	21.51					
5	25QAM	1	0	19.34	19.33	19.34	20.7	2			
5	25QAM	1	12	19.32	19.52	19.50					
5	25QAM	1	24	19.40	19.55	19.46					
5	25QAM	12	13	19.42	19.28	19.40					
5	25QAM	12	7	19.52	19.53	19.40	20.7	2			
5	25QAM	12	13	19.44	19.40	19.37					
5	25QAM	12	13	19.45	19.51	19.57					
5	25QAM	12	7	19.44	19.40	19.37					

Band 41_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Power High Mod Ch / Freq	Power High Mod Ch / Freq	Time-up limit (dBm)	MPE (dB)
Channel										
Frequency (MHz)				39870	40165	40620	41005	41600		
20	QPSK	1	0	22.80	22.83	22.80	22.77	22.78		
20	QPSK	1	49	22.78	22.80	22.71	22.66	22.67		0
20	QPSK	1	99	22.71	22.78	22.69	22.58	22.72		
20	QPSK	50	0	21.88	21.91	21.88	21.78	21.80		24
20	QPSK	50	24	21.80	21.81	21.69	21.60	21.80		
20	QPSK	50	49	21.85	21.90	21.86	21.78	21.87		23
20	QPSK	100	0	21.73	21.91	22.03	21.84	21.73		
20	16QAM	1	0	21.88	21.94	21.85	21.77	21.84		
20	16QAM	1	49	21.88	21.94	21.85	21.77	21.84		23
20	16QAM	1	99	21.83	22.03	21.90	21.82	21.90		
20	16QAM	50	0	20.74	21.92	20.80	20.75	20.89		
20	16QAM	50	24	20.78	20.89	20.85	20.74	20.80		
20	16QAM	50	49	20.81	20.91	20.79	20.68	20.76		22
20	16QAM	100	0	20.75	20.92	20.75	20.60	20.76		
20	16QAM	100	24	20.75	20.92	20.75	20.60	20.76		
20	16QAM	1	0	20.75	20.92	20.75	20.60	20.76		22
20	16QAM	1	49	20.83	20.92	20.78	20.67	20.68		
20	16QAM	1	99	20.83	20.90	20.76	20.65	20.75		
20	16QAM	50	0	19.78	19.93	19.79	19.61	19.73		
20	16QAM	50	24	19.80	19.98	19.83	19.63	19.63		
20	16QAM	50	49	19.81	19.93	19.78	19.60	19.61		
20	16QAM	100	0	19.77	19.97	19.81	19.66	19.74		
20	256QAM	1	0	17.73	17.73	17.83	17.71	17.70		
20	256QAM	1	49	17.86	17.88	17.77	17.80	17.84		19
20	256QAM	1	99	17.77	17.78	17.89	17.72	17.67		
20	256QAM	50	0	17.67	17.83	17.69	17.57	17.64		
20	256QAM	50	24	17.81	17.77	17.84	17.74	17.68		19
20	256QAM	50	49	17.80	17.76	17.92	17.68	17.69		
20	256QAM	100	0	17.73	17.84	17.72	17.71	17.66		
Channel				39870	40173	40620	41008	41610	Time-up limit (dBm)	MPE (dB)
Frequency (MHz)				22.74	22.73	22.73	22.74	22.73		
15	QPSK	1	39	22.67	22.73	22.71	22.61	22.65	24.00	0
15	QPSK	1	74	22.67	22.76	22.69	22.58	22.72		
15	QPSK	50	0	21.88	21.98	21.84	21.78	21.80		
15	QPSK	50	24	21.80	21.85	21.69	21.74	21.73		
15	QPSK	50	49	21.74	21.90	21.82	21.68	21.68		
15	QPSK	100	0	21.70	21.87	21.89	21.76	21.74		
15	16QAM	1	0	21.89	21.92	21.74	21.84	21.75		
15	16QAM	1	49	21.77	21.93	21.81	21.73	21.73		23
15	16QAM	1	74	21.80	22.01	21.70	21.88	21.83		
15	16QAM	50	0	20.98	20.99	20.77	20.78	20.79		
15	16QAM	50	24	20.98	20.98	20.77	20.68	20.77		22
15	16QAM	50	49	20.97	20.97	20.78	20.74	20.78		
15	16QAM	100	0	20.75	20.96	20.86	20.70	20.74		
15	16QAM	100	24	20.71	20.90	20.71	20.54	20.68		
15	16QAM	1	39	20.82	20.93	20.74	20.76	20.74	22	2
15	16QAM	1	74	20.80	20.95	20.76	20.72	20.78		
15	16QAM	50	0	19.70	19.85	19.75	19.71	19.67		
15	16QAM	50	24	19.70	19.84	19.76	19.65	19.77		
15	16QAM	50	49	19.76	19.87	19.78	19.62	19.61		
15	16QAM	75	0	19.68	19.75	19.70	19.68	19.68		
15	16QAM	100	0	19.68	19.75	19.68	19.68	19.68		
15	256QAM	1	39	17.64	17.67	17.77	17.64	17.67	19	5
15	256QAM	1	74	17.63	17.67	17.78	17.69	17.78		
15	256QAM	50	0	17.58	17.76	17.63	17.57	17.68		
15	256QAM	50	24	17.65	17.76	17.63	17.57	17.65		
15	256QAM	50	49	17.68	17.68	17.84	17.62	17.64		
15	256QAM	75	0	17.62	17.74	17.63	17.53	17.63		
Channel				39870	40160	40620	41005	41600	Time-up limit (dBm)	MPE (dB)
Frequency (MHz)				22.72	22.72	22.72	22.68	22.73		
5	QPSK	1	0	22.72	22.80	22.80	22.68	22.73		
5	QPSK	1	25	22.77	22.86	22.81	22.50	22.67	24.00	0
5	QPSK	50	0	21.88	21.98	21.84	21.78	21.80		
5	QPSK	50	25	21.75	21.91	21.95	21.65	21.87		
5	QPSK	25	12	21.68	21.81	21.67	21.70	21.70		
5	QPSK	25	37	21.70	21.82	21.79	21.71	21.68		23
5	QPSK	50	0	21.72	21.88	22.02	21.82	21.74		
5	16QAM	1	0	21.80	21.90	21.80	21.76	21.74		
5	16QAM	1	25	21.80	21.91	21.77	21.71	21.78		23
5	16QAM	1	49	21.71	22.01	21.80	21.78	21.79		
5	16QAM	25	0	20.94	20.98	20.75	20.71	20.78		
5	16QAM	25	12	20.95	20.98	20.75	20.68	20.78		23
5	16QAM	25	37	20.78	20.88	20.75	20.68	20.78		
5	16QAM	50	0	20.75	20.93	20.83	20.68	20.84		
5	16QAM	1	0	20.63	20.86	20.76	20.71	20.84		
5	16QAM	1	25	20.80	20.99	20.74	20.73	20.67		22
5	16QAM	1	49	20.75	20.97	20.77	20.67	20.68		
5	16QAM	25	0	19.74	19.91	19.75	19.71	19.66		
5	16QAM	25	12	19.73	19.96	19.75	19.69	19.70		21
5	16QAM	25	37	19.86	19.93	19.76	19.66	19.70		
5	16QAM	50	0	19.77	19.80	19.68	19.71	19.65		
5	16QAM	1	0	17.69	17.71	17.82	17.69	17.69		
5	16QAM	1	25	17.75	17.74	17.82	17.70	17.72	19	5
5	256QAM	1	49	17.68	17.74	17.80	17.66	17.78		
5	256QAM	1	74	17.70	17.75	17.81	17.73	17.78		
5	256QAM	25	12	17.80	17.74	17.88	17.74	17.70		19
5	256QAM	25	37	17.67	17.66	17.85	17.77	17.71		
5	256QAM	50	0	17.69	17.82	17.72	17.71	17.66		
Channel				39670	40146	40620	41003	41600	Time-up limit (dBm)	MPE (dB)
Frequency (MHz)				22.72	22.72	22.72	22.68	22.73		
5	QPSK	1	14	22.72	22.80	22.80	22.60	22.73	24.00	0
5	QPSK	1	29	22.66	22.76	22.71	22.52	22.67		
5	QPSK	12	0	21.81	21.90	21.80	21.77	21.81		
5	QPSK	12	7	21.73	21.77	21.66	21.74	21.83		23
5	QPSK	12	14	21.72	21.68	21.57	21.52	21.78		
5	QPSK	25	0	21.68	21.88	22.00	21.82	21.81		
5	QPSK	25	7	21.84	21.89	21.80	21.81	21.80		
5	16QAM	1	0	21.81	21.91	21.81	21.77	21.80		23
5	16QAM	1	24	21.80	22.03	21.75	21.89	21.83		
5	16QAM	12	0	20.95	20.98	20.75	20.71	20.78		
5	16QAM	12	9	20.65	20.88	20.83	20.73	20.78		22
5	16QAM	12	13	20.79	20.90	20.79	20.65	20.74		
5	16QAM	25	0	20.75	20.97	20.83	20.63	20.74		
5	16QAM	1	0	20.75	20.82	20.68	20.67	20.71		
5	16QAM	1	12	20.71	20.91	20.72	20.76	20.65		22
5	16QAM	1	24	20.75	20.77	20.81	20.67	20.73		
5	16QAM	12	0	19.71	19.82	19.75	19.73	19.67		
5	16QAM	12	9	19.86	19.87	19.76	19.66	19.60		
5	16QAM	12	13	19.80	19.83	19.70	19.73	19.60		
5	16QAM	25	0	17.67	17.84	17.79	17.79	17.60		
5	256QAM	1	14	17.73	17.63	17.88	17.70	17.65		
5	256QAM	1	24	17.66	17.71	17.75	17.70	17.60		
5	256QAM	12	0	17.62	17.81	17.72	17.79	17.60		
5	256QAM	12	7	17.68	17.73	17.88	17.78	17.67		
5	256QAM	12	13	17.68	17.76	17.84	17.85	17.67		
5	256QAM	25	0	17.69	17.82	17.79	17.79	17.60		

Band 41_Ant 2													
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power High Ch / Freq.	Turn-up test (dBm)	MPR (dB)
Channel													
Frequency (MHz)													
20	QPSK	1	0	39790	40188	40600	41006	41496					
20	QPSK	1	5	20.49	20.67	20.74	20.52	20.62					
20	QPSK	1	40	20.47	20.58	20.63	20.48	20.56				21.7	0
20	QPSK	1	80	20.44	20.61	20.61	20.42	20.49					
20	QPSK	50	0	20.63	20.56	20.72	20.59	20.65					
20	QPSK	50	24	20.57	20.68	20.68	20.54	20.57				21.7	0
20	QPSK	100	0	20.63	20.62	20.5	20.5	20.5					
20	QPSK	100	0	20.44	20.61	20.65	20.63	20.53					
20	16QAM	1	0	20.63	20.41	20.54	20.42	20.51				21.7	0
20	16QAM	1	40	20.63	20.57	20.34	20.49	20.57					
20	16QAM	1	80	20.43	20.73	20.39	20.4	20.4					
20	16QAM	50	0	20.41	20.64	20.43	20.42	20.54					
20	16QAM	50	24	20.46	20.64	20.5	20.59	20.59				21.7	0
20	16QAM	50	50	20.6	20.65	20.54	20.64	20.56					
20	16QAM	100	0	20.49	20.62	20.67	20.41	20.43					
20	16QAM	100	0	20.57	20.41	20.31	20.18	20.35					
20	16QAM	1	40	20.59	20.47	20.28	20.31	20.29				21.7	0
20	16QAM	1	80	20.35	20.58	20.57	20.35	20.3					
20	16QAM	50	0	20.53	20.63	20.48	20.49	20.59					
20	16QAM	50	24	20.4	20.67	20.43	20.46	20.45				21.7	0
20	16QAM	50	50	20.46	20.64	20.53	20.57	20.48					
20	16QAM	100	0	20.42	20.56	20.49	20.36	20.5					
20	256QAM	1	0	19.86	19.57	19.52	19.46	19.33					
20	256QAM	1	40	19.74	19.66	19.39	19.33	19.36				20.7	1
20	256QAM	1	80	19.84	19.67	19.41	19.35	19.48					
20	256QAM	50	0	19.82	19.63	19.37	19.32	19.31					
20	256QAM	50	24	19.80	19.61	19.35	19.44	19.46				20.7	1
20	256QAM	50	50	19.71	19.48	19.47	19.39	19.34					
20	256QAM	100	0	19.78	19.57	19.36	19.38	19.32					
Channel													
Frequency (MHz)													
16	QPSK	1	0	39795	40173	40600	41006	41515					
16	QPSK	1	5	20.44	20.49	20.69	20.41	20.52					
16	QPSK	1	37	20.4	20.5	20.53	20.41	20.44				21.70	0
16	QPSK	1	74	20.28	20.4	20.52	20.32	20.38					
16	QPSK	1	80	20.61	20.57	20.68	20.49	20.55					
16	QPSK	36	20	20.48	20.6	20.63	20.52	20.5				21.7	0
16	QPSK	36	20	20.53	20.57	20.68	20.49	20.55					
16	QPSK	75	0	20.33	20.5	20.63	20.6	20.43					
16	16QAM	1	0	20.45	20.3	20.44	20.4	20.46				21.7	0
16	16QAM	1	74	20.43	20.69	20.39	20.33	20.34					
16	16QAM	1	74	20.34	20.69	20.33	20.34	20.31					
16	16QAM	36	0	20.36	20.51	20.39	20.4	20.5					
16	16QAM	36	39	20.27	20.46	20.45	20.5	20.47				21.7	0
16	16QAM	36	39	20.58	20.51	20.42	20.52	20.53					
16	16QAM	75	0	20.44	20.56	20.47	20.29	20.37					
16	16QAM	1	0	20.23	20.35	20.22	20.16	20.32				21.7	0
16	16QAM	1	37	20.38	20.43	20.21	20.2	20.17					
16	16QAM	1	74	20.23	20.47	20.21	20.23	20.25					
16	16QAM	36	0	20.23	20.6	20.36	20.41	20.55					
16	16QAM	36	20	20.32	20.58	20.37	20.44	20.36				21.7	0
16	16QAM	36	39	20.24	20.42	20.25	20.4	20.35					
16	16QAM	75	0	20.34	20.53	20.46	20.27	20.35					
16	256QAM	1	0	19.67	19.53	19.47	19.38	19.26				20.7	1
16	256QAM	1	37	19.66	19.55	19.33	19.26	19.27					
16	256QAM	1	74	19.77	19.55	19.32	19.30	19.42					
16	256QAM	36	0	19.70	19.47	19.32	19.23	19.20				20.7	1
16	256QAM	36	39	19.73	19.53	19.35	19.36	19.27					
16	256QAM	36	39	19.61	19.42	19.35	19.31	19.31					
16	256QAM	75	0	19.72	19.52	19.35	19.27	19.23					
Channel													
Frequency (MHz)													
10	QPSK	1	0	2501	2547	2593	2639	2685					
10	QPSK	1	25	20.41	20.48	20.57	20.38	20.3				21.70	0
10	QPSK	1	40	20.3	20.44	20.49	20.34	20.39					
10	QPSK	12	0	20.68	20.61	20.61	20.43	20.53					
10	QPSK	25	12	20.40	20.56	20.61	20.49	20.54				21.7	0
10	QPSK	25	25	20.29	20.4	20.6	20.55	20.47					
10	QPSK	50	0	20.48	20.45	20.69	20.56	20.48					
10	16QAM	1	0	20.41	20.38	20.48	20.35	20.49				21.7	0
10	16QAM	1	25	20.35	20.52	20.3	20.39	20.42					
10	16QAM	1	80	20.33	20.69	20.3	20.38	20.38					
10	16QAM	25	0	20.4	20.59	20.34	20.35	20.42					
10	16QAM	25	19	20.38	20.63	20.46	20.56	20.48				21.7	0
10	16QAM	25	19	20.34	20.61	20.49	20.57	20.5					
10	16QAM	50	0	20.46	20.53	20.43	20.49	20.4					
10	16QAM	50	0	20.21	20.42	20.34	20.36	20.38					
10	16QAM	1	25	20.25	20.45	20.24	20.24	20.23				21.7	0
10	16QAM	1	40	20.15	20.49	20.2	20.2	20.2					
10	16QAM	25	0	20.23	20.6	20.45	20.43	20.55					
10	16QAM	25	12	20.33	20.56	20.37	20.39	20.35				21.7	0
10	16QAM	25	25	20.43	20.55	20.48	20.45	20.42					
10	16QAM	50	0	20.39	20.43	20.39	20.28	20.4					
10	256QAM	1	0	19.65	19.53	19.48	19.43	19.30				20.7	1
10	256QAM	1	25	19.65	19.55	19.34	19.30	19.26					
10	256QAM	1	40	19.72	19.57	19.32	19.31	19.29					
10	256QAM	25	0	19.70	19.53	19.34	19.24	19.24					
10	256QAM	25	0	19.76	19.58	19.37	19.34	19.41				20.7	1
10	256QAM	25	25	19.64	19.41	19.40	19.29	19.25					
10	256QAM	50	0	19.66	19.50	19.63	19.33	19.32					
Channel													
Frequency (MHz)													
5	QPSK	1	0	20.37	20.57	20.68	20.46	20.56				21.70	0
5	QPSK	1	15	20.42	20.5	20.55	20.43	20.49					
5	QPSK	1	24	20.34	20.39	20.52	20.36	20.46					
5	QPSK	12	0	20.68	20.65	20.7	20.5	20.63					
5	QPSK	12	0	20.46	20.59	20.64	20.52	20.49				21.7	0
5	QPSK	12	13	20.3	20.42	20.58	20.57	20.45					
5	QPSK	25	0	20.39	20.57	20.63	20.52	20.49					
5	16QAM	1	0	20.46	20.38	20.47	20.35	20.45					
5	16QAM	1	12	20.34	20.48	20.24	20.41	20.36				21.7	0
5	16QAM	1	24	20.28	20.64	20.58	20.3	20.29					
5	16QAM	12	0	20.41	20.57	20.41	20.33	20.44					
5	16QAM	12	7	20.41	20.57	20.39	20.48	20.56				21.7	0
5	16QAM	12	13	20.37	20.51	20.42	20.6	20.52					
5	16QAM	25	0	20.43	20.5	20.39	20.34	20.3					
5	16QAM	1	0	20.2	20.42	20.22	20.19	20.32				21.7	0
5	16QAM	1	12	20.24	20.42	20.17	20.19	20.24					
5	16QAM	1	24	20.2	20.46	20.16	20.26	20.19					
5	16QAM	12	0	20.23	20.6	20.44	20.39	20.3					
5	16QAM	12	7	20.31	20.58	20.41	20.41	20.34				21.7	0
5	16QAM	12	13	20.34	20.62	20.5	20.52	20.45					
5	16QAM	25	0	20.									
5	256QAM	1	0	19.65	19.46	19.43	19.34	19.26				20.7	1
5	256QAM	1	15	19.65	19.48	19.30	19.23	19.27					
5	256QAM	1	24	19.69	19.57	19.32	19.32	19.32					
5	256QAM	12	0	19.71	19.62	19.31	19.26	19.36					
5	256QAM	12	13	19.70	19.49	19.32	19.28	19.28				20.7	1
5	256QAM	12	13	19.73	19.54	19.27	19.36	19.34				20.7	1
5	256QAM	25	0	19.74	19.44	19.42	19.30	19.28					
5	256QAM	25	0	19.70	19.49	19.30	19.23	19.23					



Reduced Power for DSI 3

DSM890_Ant 0						TAS0					
Band			Band			Band			Band		
Average Power (dBm)			Average Power (dBm)			Average Power (dBm)			Average Power (dBm)		
TX Channel			TX Channel			TX Channel			TX Channel		
Frequency (MHz)	834.2	834.4	844.8	834.2	834.4	844.8	834.2	834.4	844.8	834.2	834.4
DSM 1 Tx ant	32.62	33.16	33.69	32.62	33.16	33.69	32.62	33.16	33.69	32.62	33.16
OPRS 1 Tx ant	32.67	33.15	33.65	32.67	33.15	33.65	32.67	33.15	33.65	32.67	33.15
OPRS 2 Tx ant	29.85	30.11	29.61	29.85	30.11	29.61	29.85	30.11	29.61	29.85	30.11
OPRS 3 Tx ant	27.64	28.08	27.93	27.64	28.08	27.93	27.64	28.08	27.93	27.64	28.08
OPRS 4 Tx ant	26.50	26.67	26.59	27.49	23.50	23.67	23.58	24.50	23.58	24.50	23.58
EDGE 1 Tx ant	21.99	22.20	21.99	21.99	22.20	21.99	21.99	22.20	21.99	22.20	21.99
EDGE 2 Tx ant	24.18	24.19	24.19	24.08	18.16	18.19	18.19	18.19	18.19	18.19	18.19
EDGE 3 Tx ant	22.12	22.19	22.27	22.09	17.86	17.93	18.01	18.14	17.86	17.93	18.01
EDGE 4 Tx ant	20.97	20.85	20.92	21.85	17.87	17.85	17.87	17.82	17.85	17.87	17.82

DSM890_Ant 2						TAS0					
Band			Band			Band			Band		
Average Power (dBm)			Average Power (dBm)			Average Power (dBm)			Average Power (dBm)		
TX Channel			TX Channel			TX Channel			TX Channel		
Frequency (MHz)	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4
DSM 1 Tx ant	36.57	36.43	36.51	37.00	37.57	37.43	37.00	37.57	37.43	37.00	37.57
OPRS 1 Tx ant	36.36	36.41	36.30	37.00	37.36	37.41	37.00	37.36	37.41	37.00	37.36
OPRS 2 Tx ant	27.96	27.24	27.76	28.00	21.06	21.24	21.16	22.00	21.06	21.24	21.16
OPRS 3 Tx ant	25.13	25.24	25.16	26.40	20.67	20.68	20.60	21.74	20.67	20.68	20.60
OPRS 4 Tx ant	23.54	23.73	23.68	23.50	20.24	20.73	20.68	22.00	20.24	20.73	20.68
EDGE 1 Tx ant	26.31	26.41	26.25	27.00	17.91	17.41	17.42	18.00	17.91	17.41	17.42
EDGE 2 Tx ant	23.44	23.52	23.50	23.50	17.42	17.52	17.50	18.00	17.42	17.52	17.50
EDGE 3 Tx ant	21.51	21.80	21.30	21.50	17.05	17.40	17.04	18.00	17.05	17.40	17.04
EDGE 4 Tx ant	19.77	19.93	19.67	21.00	16.77	16.93	16.67	18.00	16.77	16.93	16.67

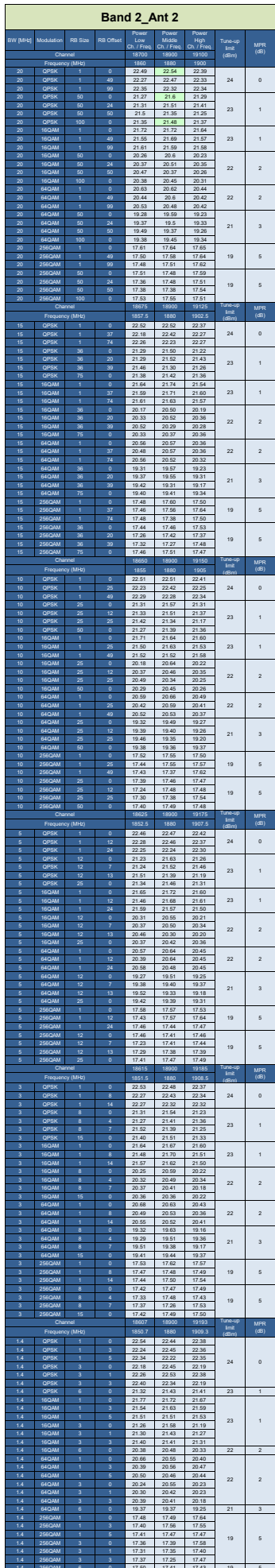
DSM890_Ant 3						TAS0					
Band			Band			Band			Band		
Average Power (dBm)			Average Power (dBm)			Average Power (dBm)			Average Power (dBm)		
TX Channel			TX Channel			TX Channel			TX Channel		
Frequency (MHz)	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4
DSM 1 Tx ant	36.57	36.43	36.51	37.00	37.57	37.43	37.00	37.57	37.43	37.00	37.57
OPRS 1 Tx ant	36.36	36.41	36.30	37.00	37.36	37.41	37.00	37.36	37.41	37.00	37.36
OPRS 2 Tx ant	27.96	27.24	27.76	28.00	21.06	21.24	21.16	22.00	21.06	21.24	21.16
OPRS 3 Tx ant	25.13	25.24	25.16	26.40	20.67	20.68	20.60	21.74	20.67	20.68	20.60
OPRS 4 Tx ant	23.54	23.73	23.68	23.50	20.24	20.73	20.68	22.00	20.24	20.73	20.68
EDGE 1 Tx ant	26.31	26.41	26.25	27.00	17.91	17.41	17.42	18.00	17.91	17.41	17.42
EDGE 2 Tx ant	23.44	23.52	23.50	23.50	17.42	17.52	17.50	18.00	17.42	17.52	17.50
EDGE 3 Tx ant	21.51	21.80	21.30	21.50	17.05	17.40	17.04	18.00	17.05	17.40	17.04
EDGE 4 Tx ant	19.77	19.93	19.67	21.00	16.77	16.93	16.67	18.00	16.77	16.93	16.67

DSM890_Ant 4						TAS0					
Band			Band			Band			Band		
Average Power (dBm)			Average Power (dBm)			Average Power (dBm)			Average Power (dBm)		
TX Channel			TX Channel			TX Channel			TX Channel		
Frequency (MHz)	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4
DSM 1 Tx ant	36.57	36.43	36.51	37.00	37.57	37.43	37.00	37.57	37.43	37.00	37.57
OPRS 1 Tx ant	36.36	36.41	36.30	37.00	37.36	37.41	37.00	37.36	37.41	37.00	37.36
OPRS 2 Tx ant	27.96	27.24	27.76	28.00	21.06	21.24	21.16	22.00	21.06	21.24	21.16
OPRS 3 Tx ant	25.13	25.24	25.16	26.40	20.67	20.68	20.60	21.74	20.67	20.68	20.60
OPRS 4 Tx ant	23.54	23.73	23.68	23.50	20.24	20.73	20.68	22.00	20.24	20.73	20.68
EDGE 1 Tx ant	26.31	26.41	26.25	27.00	17.91	17.41	17.42	18.00	17.91	17.41	17.42
EDGE 2 Tx ant	23.44	23.52	23.50	23.50	17.42	17.52	17.50	18.00	17.42	17.52	17.50
EDGE 3 Tx ant	21.51	21.80	21.30	21.50	17.05	17.40	17.04	18.00	17.05	17.40	17.04
EDGE 4 Tx ant	19.77	19.93	19.67	21.00	16.77	16.93	16.67	18.00	16.77	16.93	16.67

DSM890_Ant 5						TAS0					
Band			Band			Band			Band		
Average Power (dBm)			Average Power (dBm)			Average Power (dBm)			Average Power (dBm)		
TX Channel			TX Channel			TX Channel			TX Channel		
Frequency (MHz)	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4
DSM 1 Tx ant	36.57	36.43	36.51	37.00	37.57	37.43	37.00	37.57	37.43	37.00	37.57
OPRS 1 Tx ant	36.36	36.41	36.30	37.00	37.36	37.41	37.00	37.36	37.41	37.00	37.36
OPRS 2 Tx ant	27.96	27.24	27.76	28.00	21.06	21.24	21.16	22.00	21.06	21.24	21.16
OPRS 3 Tx ant	25.13	25.24	25.16	26.40	20.67	20.68	20.60	21.74	20.67	20.68	20.60
OPRS 4 Tx ant	23.54	23.73	23.68	23.50	20.24	20.73	20.68	22.00	20.24	20.73	20.68
EDGE 1 Tx ant	26.31	26.41	26.25	27.00	17.91	17.41	17.42	18.00	17.91	17.41	17.42
EDGE 2 Tx ant	23.44	23.52	23.50	23.50	17.42	17.52	17.50	18.00	17.42	17.52	17.50
EDGE 3 Tx ant	21.51	21.80	21.30	21.50	17.05	17.40	17.04	18.00	17.05	17.40	17.04
EDGE 4 Tx ant	19.77	19.93	19.67	21.00	16.77	16.93	16.67	18.00	16.77	16.93	16.67

DSM890_Ant 6						TAS0					
Band			Band			Band			Band		
Average Power (dBm)			Average Power (dBm)			Average Power (dBm)			Average Power (dBm)		
TX Channel			TX Channel			TX Channel			TX Channel		
Frequency (MHz)	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4
DSM 1 Tx ant	36.57	36.43	36.51	37.00	37.57	37.43	37.00	37.57	37.43	37.00	37.57
OPRS 1 Tx ant	36.36	36.41	36.30	37.00	37.36	37.41	37.00	37.36	37.41	37.00	37.36
OPRS 2 Tx ant	27.96	27.24	27.76	28.00	21.06	21.24	21.16	22.00	21.06	21.24	21.16
OPRS 3 Tx ant	25.13	25.24	25.16	26.40	20.67	20.68	20.60	21.74	20.67	20.68	20.60
OPRS 4 Tx ant	23.54	23.73	23.68	23.50	20.24	20.73	20.68	22.00	20.24	20.73	20.68
EDGE 1 Tx ant	26.31	26.41	26.25	27.00	17.91	17.41	17.42	18.00	17.91	17.41	17.42
EDGE 2 Tx ant	23.44	23.52	23.50	23.50	17.42	17.52	17.50	18.00	17.42	17.52	17.50
EDGE 3 Tx ant	21.51	21.80	21.30	21.50	17.05	17.40	17.04	18.00	17.05	17.40	17.04
EDGE 4 Tx ant	19.77	19.93	19.67	21.00	16.77	16.93	16.67	18.00	16.77	16.93	16.67

DSM890_Ant 1						TAS1					
Band			Band			Band			Band		
Average Power (dBm)			Average Power (dBm)			Average Power (dBm)			Average Power (dBm)		
TX Channel			TX Channel			TX Channel			TX Channel		
Frequency (MHz)	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4
DSM 1 Tx ant	32.14	32.87	32.78	34.50	23.74	23.87	23.78	24.50	23.78	24.50	23.78
OPRS 1 Tx ant	32.15	32.86	32.76	34.50	23.73	23.86	23.76	24.50	23.73	24.50	23.76
OPRS 2 Tx ant	29.65	29.79	29.61	31.50	23.55	23.75	23.51	25.00	23.55	23.75	23.51
OPRS 3 Tx ant	27.62	27.75	27.60	29.50	21.36	21.40	21.43	23.24	21.36	21.40	21.43
OPRS 4 Tx ant	26.09	26.32	26.18	28.00	23.08	23.32	23.18	25.00	23.08	23.32	23.18
EDGE 1 Tx ant	26.09	27.12	27.08	28.00	17.00	18.12	18.08	19.00	17.00	18.12	18.08
EDGE 2 Tx ant	34.00	23.98	33.81	25.00	18.03	17.98	17.81	19.00	18.03	17.98	17.81
EDGE 3 Tx ant	26.09	27.12	27.08	28.00	17.00	18.12	18.08	19.00	17.00	18.12	18.08
EDGE 4 Tx ant	26.09	26.02	26.03	28.00	17.00	17.62	17.48	19.00	17.00	17.62	17.48
TAS1						TAS2					
Band			Band			Band			Band		
Average Power (dBm)			Average Power (dBm)			Average Power (dBm)			Average Power (dBm)		
TX Channel			TX Channel			TX Channel			TX Channel		
Frequency (MHz)	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4	861.8	852.2	861.4
DSM 1 Tx ant	29.65	29.05	29.81	30.00	20.03	20.05	19.91	21.00	20.03	20.05	19.91
OPRS 1 Tx ant	29.66	29.06	29.82	30.00	20.04	20.06	19.92	21.00	20.04	20.06	19.92
OPRS 2 Tx ant	25.72	25.18	25.78	27.00	19.72	19.18	19.78	21.00	19.72	19.18	19.78
OPRS 3 Tx ant	25.72	25.18	25.78	27.00	19.72	19.18	19.78	21.00	19.72	19.18	19.78
OPRS 4 Tx ant	23.22	22.33	22.23	23.00	19.33	19.32	19.33	20.00	19.33	19.32	19.33
EDGE 1 Tx ant	24.00	25.24	25.07	26.00	16.04	16.34	16.07	17.00	16.04	16.34	16.07
EDGE 2 Tx ant	24.00	25.24	25.07	26.00	16.04	16.34	16.07	17.00	16.04	16.34	16.07
EDGE 3 Tx ant	26.48	20.67	20.08	21.00	16.30	16.31	16.02	17.00	16.30	16.31	16.02
EDGE 4 Tx ant	26.48	20.67	20.08	21.00	16.30	16.31	16.02	17.00	16.30	16.31	16.02



Band 2_Ant 3												
SW (MHz)	Mod	RF Band	RF Chn	Power (dBm)	Power (dBm)	Power (dBm)	Turn-on (dB)	MFR (dB)				
Frequency (MHz)									Turn-on (dB)	MFR (dB)		
20	QPSK	1	6	22.63	22.73	22.61						
20	QPSK	1	46	22.55	22.54	22.53			24	0		
20	QPSK	1	47	22.55	22.54	22.53						
20	QPSK	50	6	21.62	21.65	21.60						
20	QPSK	50	24	21.55	21.53	21.56			23	1		
20	QPSK	50	25	21.55	21.54	21.55						
20	QPSK	100	6	21.55	21.60	21.57						
20	HQDM	1	6	21.62	21.64	21.70						
20	HQDM	1	46	21.55	21.54	21.55			23	1		
20	HQDM	1	99	21.52	21.54	21.60						
20	HQDM	1	99	21.55	21.56	21.55						
20	HQDM	50	24	20.60	20.60	20.60			22	2		
20	HQDM	50	25	20.60	20.60	20.60						
20	HQDM	1	99	20.67	20.70	20.75						
20	HQDM	1	99	20.68	20.61	20.55			22	2		
20	HQDM	1	99	20.71	20.68	20.65						
20	HQDM	50	6	19.73	19.74	19.72			21	3		
20	HQDM	50	24	18.68	19.71	19.70						
20	HQDM	50	25	18.68	19.71	19.70						
20	HQDM	100	6	19.87	19.97	19.91						
20	HQDM	1	99	17.87	17.75	18.14						
20	HQDM	1	99	17.85	18.00	18.24						
20	HQDM	50	6	17.55	18.00	18.24						
20	HQDM	50	24	17.55	18.00	18.24						
20	HQDM	50	25	17.55	18.00	18.24						
20	HQDM	100	6	17.74	17.66	18.05			19	5		
20	HQDM	100	6	17.79	18.30	18.55						
Frequency (MHz)									Turn-on (dB)	MFR (dB)		
15	QPSK	1	6	18.57	18.60	18.62						
15	QPSK	1	46	22.70	22.71	22.65			24	0		
15	QPSK	1	47	22.65	22.68	22.68						
15	QPSK	1	74	22.37	22.37	22.37						
15	QPSK	36	6	21.62	21.68	21.65						
15	QPSK	36	6	21.62	21.68	21.65			23	1		
15	QPSK	36	24	21.53	21.50	21.57						
15	QPSK	36	25	21.53	21.50	21.57						
15	QPSK	75	6	21.54	21.62	21.62						
15	QPSK	75	6	21.56	21.62	21.62						
15	HQDM	1	97	21.55	21.55	21.73			23	1		
15	HQDM	1	74	21.60	21.58	21.75						
15	HQDM	1	97	21.54	21.58	21.75						
15	HQDM	36	24	20.74	20.65	20.58			22	2		
15	HQDM	36	25	20.62	20.59	20.53						
15	HQDM	75	6	20.58	20.58	20.53						
15	HQDM	1	6	20.72	20.69	20.55			22	2		
15	HQDM	1	97	20.76	20.62	20.57						
15	HQDM	1	97	20.76	20.62	20.57						
15	HQDM	36	24	19.76	19.81	19.70			21	3		
15	HQDM	36	25	19.73	19.78	19.68						
15	HQDM	75	6	19.92	19.72	19.88						
15	HQDM	1	97	19.79	19.82	19.85			19	5		
15	HQDM	1	97	19.91	19.94	19.98						
15	HQDM	1	74	17.77	17.69	18.03						
15	HQDM	1	97	17.80	17.82	18.03						
15	HQDM	36	24	17.77	17.81	17.75			19	5		
15	HQDM	36	25	17.77	17.81	17.75						
15	HQDM	36	25	17.74	17.69	17.88						
Frequency (MHz)									Turn-on (dB)	MFR (dB)		
15	QPSK	1	6	18.55	18.60	18.55						
15	QPSK	1	25	22.68	22.68	22.68			24	0		
15	QPSK	1	25	22.65	22.62	22.65						
15	QPSK	1	46	22.81	22.81	22.81						
15	QPSK	20	6	21.64	21.66	21.66						
15	QPSK	20	6	21.62	21.61	21.61			23	1		
15	QPSK	20	24	21.60	21.54	21.61						
15	QPSK	20	25	21.58	21.57	21.57						
15	HQDM	1	6	21.61	21.73	21.65						
15	HQDM	1	25	21.53	21.64	21.66			23	1		
15	HQDM	1	46	21.54	21.54	21.54						
15	HQDM	20	6	20.37	20.55	20.57			22	2		
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						
15	HQDM	20	12	20.75	20.63	20.58						

Band 4_Ant 0											
BW (MHz)	Modulation	RB (12)	RB (OFDM)	Power (dBm)	Power (dBm) C/Fltch	Power (dBm) S/Fltch	Power (dBm) P/Fltch	Power (dBm) S/Fltch	Power (dBm) P/Fltch	Time Slot (ms)	MPR (dB)
Channel											
Frequency (MHz)											
20	QPSK	1	6	22.89	22.87	22.97	22.96				
20	QPSK	1	6	22.89	22.88	22.92	22.85			24	0
20	QPSK	1	6	22.89	22.88	22.92	22.85				
20	QPSK	50	5	21.93	22.05	21.98					
20	QPSK	50	5	21.89	21.98	21.87					
20	QPSK	100	5	21.84	22.02	21.87					
20	QPSK	100	5	22.11	22.19	22.21					
20	QPSK	150	5	22.18	22.17	22.21				23	1
20	QPSK	150	5	22.11	22.19	22.21					
20	HQPSK	1	6	22.91	22.93	22.93					
20	HQPSK	50	5	20.74	21.07	20.89					
20	HQPSK	50	5	21.81	21.81	21.81					
20	HQPSK	50	5	20.85	20.90	20.91				22	2
20	HQPSK	50	5	20.85	20.90	20.91					
20	HQPSK	100	5	21.06	21.03	21.09					
20	HQPSK	150	5	21.03	21.03	21.03					
20	HQPSK	150	5	20.83	20.90	20.91					
20	HQPSK	150	5	20.83	20.90	20.91					
20	HQPSK	50	5	19.74	19.95	19.75					
20	HQPSK	50	5	19.78	19.87	19.93				21	3
20	HQPSK	50	5	19.78	19.87	19.93					
20	HQPSK	100	5	19.82	19.94	19.97					
20	HQPSK	150	5	19.82	18.18	17.98					
20	HQPSK	150	5	18.52	18.29	18.03				19	
20	HQPSK	150	5	18.52	18.29	18.03					
20	HQPSK	150	5	17.99	18.10	17.98					
20	HQPSK	150	5	17.99	18.10	17.98					
20	HQPSK	150	5	18.11	18.11	18.10					
20	HQPSK	150	5	18.09	18.07	18.06					
Channel											
Frequency (MHz)											
15	QPSK	1	6	17.15	17.22	17.25	17.27				
15	QPSK	1	6	22.77	22.85	22.85					
15	QPSK	1	6	22.77	22.84	22.81				24	0
15	QPSK	1	6	22.77	22.73	22.73					
15	QPSK	36	5	21.74	21.98	21.88					
15	QPSK	36	5	21.74	21.98	21.88					
15	QPSK	36	5	21.78	21.79	21.50				23	1
15	QPSK	75	5	21.77	21.90	21.88					
15	QPSK	75	5	21.84	21.84	21.73					
15	HQPSK	1	6	21.93	22.04	22.03				23	1
15	HQPSK	1	6	21.93	22.04	22.03					
15	HQPSK	36	5	20.76	20.88	20.87					
15	HQPSK	36	5	20.83	20.89	20.88				22	2
15	HQPSK	36	5	20.83	20.89	20.88					
15	HQPSK	75	5	20.88	20.88	20.88					
15	HQPSK	75	5	20.84	20.84	20.84				22	2
15	HQPSK	75	5	20.84	20.84	20.84					
15	HQPSK	36		19.62	19.86	19.63					
15	HQPSK	36	5	19.72	19.80	19.83				21	3
15	HQPSK	36	5	19.72	19.80	19.83					
15	HQPSK	75	5	19.76	19.77	19.62					
15	HQPSK	75	5	19.76	19.77	19.62					
15	HQPSK	36		18.52	18.29	18.03					
15	HQPSK	36	5	18.52	18.29	18.03				19	5
15	HQPSK	36	5	18.52	18.29	18.03					
15	HQPSK	36	5	17.98	17.98	17.98					
15	HQPSK	36	5	17.98	17.98	17.98					
15	HQPSK	36	5	17.99	18.15	17.96					
Channel											
Frequency (MHz)											
10	QPSK	1	6	20.00	20.17	20.08				Time Slot (ms)	MPR (dB)
10	QPSK	1	6	17.15	17.22	17.25					
10	QPSK	1	6	22.71	22.83	22.80				24	0
10	QPSK	1	6	22.71	22.72	22.81					
10	QPSK	1	6	22.70	22.70	22.70					
10	QPSK	24	5	21.75	21.89	21.81				23	1
10	QPSK	24	5	21.75	21.89	21.81					
10	QPSK	12	7	21.72	21.72	21.72					
10	QPSK	25	5	21.78	21.79	21.50					
10	QPSK	25	5	21.78	21.79	21.50				23	1
10	QPSK	25	5	21.78	21.79	21.50					
10	HQPSK	1	6	22.00	22.10	22.20					
10	HQPSK	1	6	22.02	22.10	22.15				23	1
10	HQPSK	1	6	22.02	22.08	22.08					
10	HQPSK	25	5	20.53	20.59	20.51					
10	HQPSK	25	5	20.62	20.68	20.54				22	2
10	HQPSK	25	5	20.62	20.68	20.54					
10	HQPSK	50	5	20.67	20.74	20.58					
10	HQPSK	50	5	20.63	20.64	21.07					
10	HQPSK	50	5	20.63	20.64	21.07				22	2
10	HQPSK	50	5	20.63	20.64	21.07					
10	HQPSK	25		19.52	19.52	19.52					
10	HQPSK	25	5	19.80	20.05	20.07					
10	HQPSK	25	5	19.80	19.89	19.85				21	3
10	HQPSK	25	5	19.80	19.89	19.85					
10	HQPSK	50	5	19.73	19.82	19.81					
10	HQPSK	50	5	19.73	19.82	19.81					
10	HQPSK	25	5	18.85	17.96	17.73					
10	HQPSK	25	5	18.85	17.96	17.73					
10	HQPSK	25	5	18.04	18.02	17.87				19	5
10	HQPSK	25	5	18.04	18.02	17.87					
10	HQPSK	25	5	17.86	17.98	17.82					
10	HQPSK	25	5	17.86	17.98	17.82					
10	HQPSK	25	5	18.02	17.92	17.86					
Channel											
Frequency (MHz)											
10	QPSK	1	6	19.95	20.17	20.08				Time Slot (ms)	MPR (dB)
10	QPSK	1	6	17.15	17.22	17.25					
10	QPSK	1	6	22.72	22.79	22.80				24	0
10	QPSK	1	6	22.72	22.81	22.83					
10	QPSK	1	6	22.68	22.74	22.80					
10	QPSK	12	7	21.75	21.78	21.80				23	1
10	QPSK	12	7	21.75	21.78	21.80					
10	QPSK	12	7	21.78	21.74	21.50					
10	QPSK	12	7	21.67	21.62	21.49					
10	QPSK	6	6	22.00	21.99	22.03					
10	QPSK	12	6	22.03	22.07	22.10				23	1
10	QPSK	12	6	22.02	22.05	22.05					
10	QPSK	12	6	20.55	20.56	20.56					
10	QPSK	12	6	20.55	20.56	20.56				22	2
10	QPSK	12	6	20.55	20.56	20.56					
10	HQPSK	12	6	20.75	20.66	20.63					
10	HQPSK	12	6	20.75	20.66	20.63					
10	HQPSK	25	5	20.71	20.58	20.53					
10	HQPSK	25	5	20.71	20.58	20.53				22	2
10	HQPSK	25	5	20.71	20.58	20.53					
10	HQPSK	12	6	19.92	19.92	19.92					
10	HQPSK	12	6	20.94	20.94	20.87				20	2
10	HQPSK	12	6	20.94	20.94	20.87					
10	HQPSK	12	7	19.78	19.89	19.90				21	3
10	HQPSK	12	7	19.67	19.71	19.91					
10	HQPSK	12	7	19.67	19.71	19.91					
10	HQPSK	12	7	19.67	19.71	19.91					
10	HQPSK	12	7	17.86	18.04	17.80				19	5
10	HQPSK	12	7	17.86	18.04	17.80					
10	HQPSK	12	7	17.86	18.04	17.80					
10	HQPSK	12	7	17.77	17.99	17.82					
10	HQPSK	12	7	17.77	17.99	17.82				19	5
10	HQPSK	12	7	17.77	17.99	17.82					
10	HQPSK	25	5	19.77	19.77	19.67					
Channel											
Frequency (MHz)											
3	QPSK	1	6	22.72	22.89	22.81					
3	QPSK	1	6	22.67	22.83	22.81				24	0
3	QPSK	1	6	22.67	22.83	22.81					
3	QPSK	6	6	21.78	21.95	21.83					
3	QPSK	6	6	21.72	21.77	21.81				23	1
3	QPSK	6	6	21.72	21.77	21.81					
3	QPSK	16	6	21.83	21.92	21.91					
3	HQPSK	1	6	21.95	22.04	22.07				23	1
3	HQPSK	1	6	21.95	22.04	22.07					
3	HQPSK	14	14	21.85	22.02	22.05					
3	HQPSK	6	6	20.48	20.86	20.78					
3	HQPSK	6	6	20.52	20.78	20.80				22	2
3	HQPSK	6	6	20.52	20.78	20.80					
3	HQPSK	16	6	20.77	20.77	20.86					
3	HQPSK	16	6	20.90	20.90	20.90					
3	HQPSK	8	8	20.92	21.01	21.03				22	2
3	HQPSK	8	8	20.84	20.97	20.92					
3	HQPSK	8	8	19.58	19.91	19.88					
3	HQPSK	8	8	19.70	19.90	19.90				21	3
3	HQPSK	16	6	19.76	17.96	17.87					
3	HQPSK</										

[illegible]



Band 4_Ant 2									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Fires	Power High Ch./Fires	Power Low Ch./Fires	Turn-up time (sec)	MPP (dB)	
Channel									
200605 200705 200705									
Frequency (MHz)									
20	QPSK	1	0	24.05	24.09	24.23			
20	QPSK	1	49	23.94	24.08	24.15	25	0	
20	QPSK	1	99	23.88	24.00	23.99			
20	QPSK	50	0	22.83	23.15	23.18			
20	QPSK	50	24	22.86	23.14	23.15			
20	QPSK	50	50	22.97	23.08	23.15	24	1	
20	QPSK	100	0	22.98	23.09	23.11			
20	QPSK	100	24	23.20	23.37	23.39			
20	QPSK	100	50	22.98	23.38	23.34	24	1	
20	16QAM	1	49	23.28	23.28	23.24			
20	16QAM	1	99	23.15	23.31	23.23			
20	16QAM	50	0	21.84	22.14	22.19			
20	16QAM	50	24	22.00	22.13	22.08	23	2	
20	16QAM	50	50	21.98	22.10	22.16			
20	16QAM	100	0	21.98	22.05	22.19			
20	16QAM	100	24	22.14	22.29	22.34			
20	16QAM	100	50	22.15	22.16	22.28	23	2	
20	16QAM	1	99	22.11	22.12	22.15			
20	16QAM	50	0	20.84	21.13	21.14			
20	16QAM	50	24	20.96	21.08	21.13			
20	16QAM	50	50	20.97	21.08	21.12	22	3	
20	16QAM	100	0	20.97	21.07	21.08			
20	16QAM	100	24	21.08	21.23	21.25			
20	16QAM	100	50	21.12	21.29	21.45			
20	16QAM	1	0	21.21	21.34	21.57			
20	16QAM	1	49	21.57	21.42	21.62			
20	16QAM	1	99	21.51	21.43	21.58			
20	16QAM	50	0	20.2	20.31	20.45			
20	16QAM	50	24	20.35	20.34	20.44			
20	16QAM	50	50	20.31	20.32	20.5	22	3	
20	16QAM	100	0	20.25	20.28	20.45			
20	16QAM	100	24	20.35	20.44	20.48			
20	16QAM	100	50	19.85	19.47	19.68			
20	256QAM	1	49	18.48	18.49	18.50	20	5	
20	256QAM	1	99	18.36	18.49	18.23			
20	256QAM	50	0	18.36	18.49	18.23			
20	256QAM	50	24	18.43	18.52	18.54	20	5	
20	256QAM	50	50	18.33	18.50	18.19			
20	256QAM	100	0	18.33	18.50	18.19			
Channel									
200605 200705 200705									
Frequency (MHz)									
15	QPSK	1	0	23.21	23.14	23.37			
15	QPSK	1	49	23.19	23.28	23.3	25	0	
15	QPSK	1	74	23.28	23.32	23.35			
15	QPSK	50	0	22.29	22.29	22.33			
15	QPSK	50	24	22.33	22.39	22.37			
15	QPSK	50	36	22.11	22.24	22.4	24	1	
15	QPSK	75	0	22.27	22.29	22.44			
15	16QAM	1	23	22.17	22.44	22.61			
15	16QAM	1	37	22.45	22.45	22.63	24	1	
15	16QAM	1	74	22.45	22.45	22.63			
15	16QAM	36	0	21.14	21.2	21.48			
15	16QAM	36	20	21.28	21.29	21.4	23	2	
15	16QAM	50	0	21.2	21.32	21.58			
15	16QAM	50	24	21.33	21.39	21.43	23	2	
15	16QAM	50	75	0	21.12	21.25	21.41		
15	16QAM	1	0	21.2	21.32	21.58			
15	16QAM	1	37	21.33	21.39	21.43	23	2	
15	16QAM	1	74	21.19	21.30	21.55			
15	16QAM	36	0	20.13	20.22	20.38			
15	16QAM	36	20	20.23	20.34	20.54	22	3	
15	16QAM	50	0	20.19	20.22	20.45			
15	16QAM	50	24	20.24	20.28	20.41			
15	16QAM	50	36	19.35	19.35	19.45			
15	256QAM	1	37	18.40	18.50	18.54	20	5	
15	256QAM	1	74	18.30	18.48	18.22			
15	256QAM	50	0	18.43	18.43	18.45			
15	256QAM	50	24	18.48	18.44	18.47			
15	256QAM	50	36	18.32	18.48	18.24	20	5	
15	256QAM	75	0	18.32	18.48	18.24			
Channel									
199975 200705 200705									
Frequency (MHz)									
10	QPSK	1	0	23.19	23.19	23.23			
10	QPSK	1	12	23.19	23.26	23.4	25	0	
10	QPSK	1	24	23.3	23.32	23.3			
10	QPSK	50	0	22.34	22.34	22.34			
10	QPSK	12	7	22.37	22.32	22.39	24	1	
10	QPSK	12	13	22.18	22.23	22.3			
10	QPSK	12	24	22.21	22.33	22.37			
10	16QAM	1	5	22.19	22.42	22.59			
10	16QAM	1	12	22.35	22.49	22.58	24	1	
10	16QAM	1	24	22.42	22.52	22.62			
10	16QAM	12	5	21.11	21.2	21.49			
10	16QAM	12	7	21.21	21.37	21.3	23	2	
10	16QAM	50	2	21.12	21.14	21.41			
10	16QAM	25	0	21.08	21.22	21.42			
10	16QAM	1	0	21.18	21.38	21.51			
10	16QAM	12	15	21.25	21.35	21.51	23	2	
10	16QAM	1	24	21.24	21.31	21.5			
10	16QAM	12	0	20.17	20.31	20.32			
10	16QAM	12	24	20.13	20.24	20.34	22	3	
10	16QAM	12	13	20.21	20.25	20.4			
10	16QAM	25	0	20.24	20.28	20.34			
10	16QAM	50	1	18.59	18.51	18.59			
10	256QAM	1	12	18.42	18.53	18.47	20	5	
10	256QAM	1	24	18.36	18.43	18.13			
10	256QAM	50	0	18.49	18.45	18.50			
10	256QAM	12	7	18.43	18.54	18.44	20	5	
10	256QAM	12	13	18.36	18.43	18.16			
10	256QAM	50	0	18.53	18.58	18.50			
Channel									
199975 200705 200705									
Frequency (MHz)									
3	QPSK	1	0	23.19	23.19	23.23			
3	QPSK	1	6	23.22	23.36	23.38	25	0	
3	QPSK	1	14	23.28	23.23	23.41			
3	QPSK	50	0	22.23	22.36	22.37			
3	QPSK	8	4	22.16	22.28	22.3	24	1	
3	QPSK	8	7	22.16	22.2	22.27			
3	QPSK	15	0	22.21	22.18	22.38			
3	16QAM	1	0	22.1	22.45	22.65			
3	16QAM	1	8	22.4	22.58	22.64	24	1	
3	16QAM	1	14	22.53	22.58	22.86			
3	16QAM	8	0	21.21	21.31	21.34			
3	16QAM	8	4	21.18	21.31	21.41	23	2	
3	16QAM	15	0	21.12	21.14	21.41			
3	16QAM	15	0	21.2	21.27	21.3			
3	16QAM	1	0	21.38	21.37	21.58	23	2	
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	8	0	21.2	21.27	21.3			
3	16QAM	8	4	21.18	21.31	21.41	23	2	
3	16QAM	15	0	21.12	21.14	21.41			
3	16QAM	15	0	21.2	21.27	21.3			
3	16QAM	1	0	21.38	21.37	21.58	23	2	
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	8	0	21.2	21.27	21.3			
3	16QAM	8	4	21.18	21.31	21.41	23	2	
3	16QAM	15	0	21.12	21.14	21.41			
3	16QAM	15	0	21.2	21.27	21.3			
3	16QAM	1	0	21.38	21.37	21.58	23	2	
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	8	0	21.2	21.27	21.3			
3	16QAM	8	4	21.18	21.31	21.41	23	2	
3	16QAM	15	0	21.12	21.14	21.41			
3	16QAM	15	0	21.2	21.27	21.3			
3	16QAM	1	0	21.38	21.37	21.58	23	2	
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	8	0	21.2	21.27	21.3			
3	16QAM	8	4	21.18	21.31	21.41	23	2	
3	16QAM	15	0	21.12	21.14	21.41			
3	16QAM	15	0	21.2	21.27	21.3			
3	16QAM	1	0	21.38	21.37	21.58	23	2	
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	8	0	21.2	21.27	21.3			
3	16QAM	8	4	21.18	21.31	21.41	23	2	
3	16QAM	15	0	21.12	21.14	21.41			
3	16QAM	15	0	21.2	21.27	21.3			
3	16QAM	1	0	21.38	21.37	21.58	23	2	
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	8	0	21.2	21.27	21.3			
3	16QAM	8	4	21.18	21.31	21.41	23	2	
3	16QAM	15	0	21.12	21.14	21.41			
3	16QAM	15	0	21.2	21.27	21.3			
3	16QAM	1	0	21.38	21.37	21.58	23	2	
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	1	14	21.3	21.35	21.48			
3	16QAM	8	0	21.2	21.27	21.3			
3	16QAM	8	4	21.18	21.31	21.41	23	2	
3	16QAM	15	0	21.12	21.14	21.41			
3	16QAM	15	0	21.2	21.27	21.3			



Band 7_Ant 0												
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Min Ch / Freq	Power Max Ch / Freq	Power Avg Ch / Freq	Turn-up Time (sec)	MFR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.02	22.14	22.08	23	0				
20	QPSK	1	49	21.74	21.89	21.82						
20	QPSK	1	99	21.81	22.08	22.00						
20	QPSK	50	0	21.15	21.20	21.13	22	1				
20	QPSK	50	24	20.84	21.08	20.97						
20	QPSK	50	50	20.98	21.10	21.03						
20	16QAM	1	0	21.19	21.20	21.17	22	1				
20	16QAM	1	49	21.45	21.49	21.47						
20	16QAM	1	99	20.89	21.22	21.16						
20	16QAM	50	24	20.84	21.08	20.97	21	2				
20	16QAM	50	50	20.98	21.10	21.03						
20	16QAM	100	0	20.98	21.14	20.92						
20	64QAM	1	0	19.98	19.71	20.13	21	2				
20	64QAM	1	49	19.81	20.04	19.92						
20	64QAM	1	99	19.91	20.36	20.00						
20	64QAM	50	0	19.98	19.72	19.86	20	3				
20	64QAM	50	24	19.82	19.12	19.95						
20	64QAM	50	50	19.88	19.10	19.99						
20	256QAM	1	0	17.11	17.20	17.04	18	5				
20	256QAM	1	49	17.03	17.19	17.07						
20	256QAM	1	99	16.85	16.88	16.89						
20	256QAM	50	0	16.93	17.05	16.96	18	5				
20	256QAM	50	24	16.91	17.07	16.98						
20	256QAM	50	50	16.98	17.04	16.93						
20	256QAM	100	0	16.93	17.04	16.93						
Channel												
Frequency (MHz)												
15	QPSK	1	0	20.67	21.00	20.625	23	0				
15	QPSK	1	0	21.62	21.88	21.72						
15	QPSK	1	37	21.65	21.76	21.91						
15	QPSK	36	0	20.47	20.61	20.54	22	1				
15	QPSK	36	39	20.68	20.81	20.83						
15	QPSK	36	39	20.68	20.81	20.83						
15	QPSK	75	0	20.69	20.83	20.87	22	1				
15	QPSK	75	0	20.61	20.82	21.1						
15	16QAM	1	37	20.54	20.73	20.63						
15	16QAM	1	74	20.52	21.06	20.86	21	2				
15	16QAM	36	20	19.49	19.81	19.75						
15	16QAM	36	20	19.49	19.82	19.81						
15	16QAM	75	0	19.69	19.84	19.86	21	2				
15	64QAM	1	0	19.96	20.1	19.8						
15	64QAM	1	37	19.72	19.91	19.87						
15	64QAM	1	74	19.87	19.95	20.09	20	3				
15	64QAM	36	0	19.47	18.88	18.93						
15	64QAM	36	39	19.69	19.84	19.86						
15	64QAM	36	39	19.71	19.81	19.88	18	5				
15	64QAM	75	0	19.64	19.8	19.86						
15	256QAM	1	37	19.62	19.84	19.86						
15	256QAM	1	74	19.84	17.05	16.93	18	5				
15	256QAM	1	74	19.73	18.83	16.89						
15	256QAM	36	20	18.78	18.91	18.96						
15	256QAM	36	20	18.78	18.91	18.96	18	5				
15	256QAM	36	20	18.78	18.91	18.96						
15	256QAM	75	0	18.69	18.84	18.78						
Channel												
Frequency (MHz)												
20	QPSK	1	0	21.42	21.81	21.74	23	0				
20	QPSK	1	25	21.31	21.71	21.72						
20	QPSK	1	49	21.39	21.77	21.75						
20	QPSK	25	0	20.43	20.74	20.66	22	1				
20	QPSK	25	12	20.4	20.8	20.74						
20	QPSK	25	25	20.47	20.82	20.7						
20	16QAM	1	0	20.31	20.69	20.81	22	1				
20	16QAM	1	25	20.55	21.14	20.86						
20	16QAM	25	0	19.26	19.79	19.78						
20	16QAM	25	12	19.26	19.83	19.87	21	2				
20	16QAM	25	12	19.30	19.81	19.86						
20	16QAM	50	0	19.5	19.88	19.73						
20	64QAM	1	0	19.14	19.87	19.78	21	2				
20	64QAM	1	25	19.34	19.89	19.85						
20	64QAM	1	49	19.68	19.94	19.83						
20	64QAM	25	0	18.48	18.73	18.77	20	3				
20	64QAM	25	12	19.33	19.81	19.86						
20	64QAM	25	25	18.44	18.98	18.9						
20	64QAM	50	0	18.58	18.83	18.92	18	5				
20	256QAM	1	0	17.05	17.07	16.90						
20	256QAM	1	25	16.97	17.05	17.00						
20	256QAM	1	49	16.76	16.81	16.74	18	5				
20	256QAM	25	0	16.82	16.74	16.94						
20	256QAM	25	12	16.77	16.86	16.86						
20	256QAM	25	25	16.77	16.82	16.82	18	5				
20	256QAM	50	0	16.81	16.82	16.83						
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.4	21.61	21.6	23	0				
5	QPSK	1	12	21.38	21.71	21.72						
5	QPSK	1	24	21.31	21.84	21.87						
5	QPSK	12	0	20.43	20.74	20.66	22	1				
5	QPSK	12	7	20.41	20.57	20.82						
5	QPSK	12	13	20.52	20.8	20.78						
5	QPSK	25	0	20.35	20.73	20.85	22	1				
5	16QAM	1	0	20.4	21.2	21.1						
5	16QAM	1	12	20.48	21.26	20.85						
5	16QAM	1	24	20.48	20.69	21.18	21	2				
5	16QAM	12	0	19.45	19.71	19.84						
5	16QAM	12	7	19.38	19.61	19.92						
5	16QAM	25	0	19.36	19.69	19.77	20	3				
5	64QAM	1	0	19.37	19.87	19.86						
5	64QAM	1	0	19.4	19.86	19.98						
5	64QAM	1	12	19.85	19.87	20.11	20	3				
5	64QAM	12	0	19.59	19.83	20.15						
5	64QAM	12	7	18.41	18.89	18.8						
5	64QAM	12	13	18.30	18.68	18.85	18	5				
5	64QAM	25	0	18.42	18.74	18.94						
5	256QAM	1	0	17.02	17.02	16.92						
5	256QAM	1	12	16.98	17.08	16.92	18	5				
5	256QAM	1	24	16.72	16.85	16.85						
5	256QAM	12	0	16.79	16.86	16.81						
5	256QAM	12	7	16.84	16.85	16.84	18	5				
5	256QAM	12	13	16.79	16.85	16.81						
5	256QAM	25	0	16.79	16.86	16.76						

Band 7_Ant 1											
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Min Ch / Freq	Power Max Ch / Freq	Power Avg Ch / Freq	Turn-up Time (Sec)	MFR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.36	22.47	22.35	24	0			
20	QPSK	1	49	22.26	22.40	22.33					
20	QPSK	1	99	22.31	22.37	22.28					
20	QPSK	50	0	21.47	21.55	21.53	23	1			
20	QPSK	50	24	21.43	21.48	21.51					
20	QPSK	50	50	21.35	21.40	21.38					
20	QPSK	100	0	21.44	21.53	21.45	23	1			
20	QPSK	100	1	21.25	21.43	21.29					
20	QPSK	100	50	21.27	21.38	21.28					
20	QPSK	1	99	21.42	21.76	21.51	22	2			
20	QPSK	50	0	20.30	20.52	20.42					
20	QPSK	50	50	20.33	20.45	20.41					
20	QPSK	50	50	20.42	20.49	20.46	22	2			
20	QPSK	100	0	20.32	20.42	20.39					
20	QPSK	100	50	20.55	20.45	20.45					
20	QPSK	1	49	20.52	20.73	20.35	22	2			
20	QPSK	50	0	20.61	20.57	20.59					
20	QPSK	50	50	20.81	20.47	20.63	21	3			
20	QPSK	100	0	19.30	19.42	19.46					
20	QPSK	100	50	19.46	19.43	19.44					
20	QPSK	100	100	19.28	19.40	19.35	19	5			
20	QPSK	1	0	17.39	17.52	17.42					
20	QPSK	1	49	17.31	17.31	17.34					
20	QPSK	50	0	17.29	17.25	17.28	19	5			
20	QPSK	50	50	17.40	17.40	17.30					
20	QPSK	100	0	17.32	17.41	17.30	19	5			
20	QPSK	100	50	17.19	17.21	17.24					
20	QPSK	100	100	17.29	17.39	17.27	Turn-up Time (Sec)	MFR (dB)			
Channel				20075	21000	20939					
Frequency (MHz)											
16	QPSK	1	0	22.19	22.37	22.23	24	0			
16	QPSK	1	33	22.19	22.23	22.24					
16	QPSK	1	67	22.37	22.41	22.34					
16	QPSK	36	0	21.24	21.44	21.24	23	1			
16	QPSK	36	25	21.27	21.40	21.42					
16	QPSK	36	50	21.33	21.37	21.35					
16	QPSK	1	0	21.28	21.50	21.38	23	1			
16	QPSK	1	1	21.15	21.28	21.22					
16	QPSK	1	25	21.10	21.16	21.14					
16	QPSK	1	74	21.31	21.54	21.52	22	2			
16	QPSK	36	0	20.35	20.32	20.35					
16	QPSK	36	50	20.16	20.44	20.30					
16	QPSK	36	36	20.34	20.42	20.27	22	2			
16	QPSK	75	0	20.29	20.26	20.34					
16	QPSK	75	0	20.25	20.25	20.25	22	2			
16	QPSK	1	33	20.40	20.66	20.27					
16	QPSK	1	74	20.50	20.48	20.41	21	3			
16	QPSK	1	99	20.22	20.30	20.26					
16	QPSK	36	36	19.32	19.36	19.35	19	5			
16	QPSK	36	50	19.33	19.31	19.31					
16	QPSK	36	50	19.15	19.36	19.26	Turn-up Time (Sec)	MFR (dB)			
16	QPSK	1	0	17.27	17.45	17.27					
16	QPSK	1	33	17.28	17.44	17.36	19	5			
16	QPSK	1	67	17.33	17.42	17.38					
16	QPSK	36	0	17.32	17.31	17.28	19	5			
16	QPSK	36	25	17.23	17.28	17.25					
16	QPSK	36	50	17.25	17.27	17.26	19	5			
16	QPSK	75	0	17.24	17.29	17.19					
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.11	22.27	22.21	24	0			
5	QPSK	1	38	22.15	22.33	22.28					
5	QPSK	1	69	22.36	22.39	22.34					
5	QPSK	25	0	21.27	21.42	21.35	23	1			
5	QPSK	25	14	21.34	21.28	21.53					
5	QPSK	25	14	21.31	21.35	21.33	23	1			
5	QPSK	1	0	21.28	21.48	21.37					
5	QPSK	1	0	21.17	21.37	21.17	23	1			
5	QPSK	1	1	21.03	21.13	21.08					
5	QPSK	1	49	21.25	21.60	21.43					
5	QPSK	25	0	20.21	20.39	20.33	22	2			
5	QPSK	25	25	20.35	20.35	20.31					
5	QPSK	50	0	20.21	20.35	20.39	22	2			
5	QPSK	50	50	20.27	20.35	20.21					
5	QPSK	1	25	20.45	20.64	20.48	22	2			
5	QPSK	1	49	20.32	20.44	20.36					
5	QPSK	25	0	19.35	19.44	19.36	21	3			
5	QPSK	25	12	19.21	19.33	19.33					
5	QPSK	25	25	19.32	19.24	19.35	19	5			
5	QPSK	1	0	17.32	17.49	17.39					
5	QPSK	1	25	17.25	17.42	17.32	19	5			
5	QPSK	1	50	17.28	17.42	17.30					
5	QPSK	25	0	17.26	17.32	17.29	19	5			
5	QPSK	25	12	17.29	17.24	17.11					
5	QPSK	25	12	17.33	17.16	17.25	19	5			
5	QPSK	50	0	17.22	17.22	17.22					
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.11	22.24	22.21	24	0			
5	QPSK	1	22	22.22	22.22	22.21					
5	QPSK	1	44	22.25	22.25	22.22					
5	QPSK	12	0	21.13	21.44	21.38	23	1			
5	QPSK	12	7	21.20	21.29	21.44					
5	QPSK	1	12	21.37	21.37	21.35	23	1			
5	QPSK	1	38	21.35	21.40	21.38					
5	QPSK	1	0	21.17	21.45	21.26	23	1			
5	QPSK	1	12	21.20	21.56	21.38					
5	QPSK	1	38	21.30	21.55	21.43					
5	QPSK	12	0	20.13	20.40	20.27	22	2			
5	QPSK	12	7	20.35	20.25	20.36					
5	QPSK	25	0	20.35	20.35	20.31	22	2			
5	QPSK	25	0	20.30	20.36	20.37					
5	QPSK	1	12	20.27	20.35	20.31	22	2			
5	QPSK	1	12	20.40	20.56	20.21					
5	QPSK	1	34	20.50	20.45	20.42	21	3			
5	QPSK	12	0	19.19	19.35	19.35					
5	QPSK	12	0	19.15	19.35	19.35	19	5			
5	QPSK	12	19	19.32	19.31	19.35					
5	QPSK	25	0	17.43	17.39	17.43	19	5			
5	QPSK	25	12	17.25	17.38	17.27					
5	QPSK	1	12	17.18	17.47	17.23	19	5			
5	QPSK	1	25	17.24	17.24	17.23					
5	QPSK	12	12	17.28	17.28	17.25	19	5			
5	QPSK	12	7	17.22	17.33	17.25					
5	QPSK	1	0	17.16	17.36	17.26	19	5			
5	QPSK	25	0	17.12	17.30	17.19					



Band 12_Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Turn-up time (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	24.67	24.77	24.66	25.7	0						
10	QPSK	1	25	24.62	24.43	24.63								
10	QPSK	1	49	24.66	24.65	24.40								
10	QPSK	25	12	23.56	23.84	23.74	24.7	1						
10	QPSK	25	0	23.61	23.69	23.71								
10	QPSK	25	25	23.74	23.82	23.64								
10	16QAM	1	0	24.04	23.79	24.05	24.7	1						
10	16QAM	1	25	24.10	23.69	24.07								
10	16QAM	1	49	23.83	24.02	24.20								
10	16QAM	25	0	22.45	22.97	22.61	23.7	2						
10	16QAM	25	12	22.80	22.71	22.68								
10	16QAM	25	25	22.83	22.81	22.86								
10	16QAM	50	0	22.70	22.83	22.74	23.7	5						
10	16QAM	50	12	22.84	22.72	22.79								
10	16QAM	1	25	22.92	22.70	22.82								
10	16QAM	1	25	22.72	22.89	22.87	22.7	3						
10	16QAM	25	0	21.53	21.88	21.70								
10	16QAM	25	12	21.57	21.74	21.65								
10	16QAM	25	25	21.62	21.70	21.71	22.7	3						
10	16QAM	50	0	21.68	21.81	21.69								
10	16QAM	1	0	20.10	20.22	20.12								
10	256QAM	1	25	20.21	20.25	20.25	20.7	5						
10	256QAM	1	49	19.96	20.17	20.21								
10	256QAM	25	0	19.96	20.19	20.28								
10	256QAM	25	12	20.04	20.18	20.04	20.7	5						
10	256QAM	25	25	19.96	20.04	19.96								
10	256QAM	50	0	19.96	20.06	19.93								
Channel														
Frequency (MHz)														
5	QPSK	1	0	24.45	24.60	24.50	25.7	0						
5	QPSK	1	12	24.53	24.52	24.53								
5	QPSK	1	24	24.61	24.60	24.57								
5	QPSK	12	0	23.43	23.65	23.59	24.7	1						
5	QPSK	12	7	23.43	23.63	23.64								
5	QPSK	12	13	23.63	23.59	23.53								
5	QPSK	25	0	23.57	23.69	23.66	24.7	1						
5	16QAM	1	0	23.84	23.74	24.00								
5	16QAM	1	12	23.97	23.84	23.89								
5	16QAM	1	24	23.96	23.92	23.99	23.7	2						
5	16QAM	12	0	22.35	22.96	22.58								
5	16QAM	12	7	22.50	22.58	22.53								
5	16QAM	25	0	22.47	22.52	22.68	23.7	2						
5	16QAM	25	0	22.67	22.57	22.62								
5	16QAM	1	12	22.67	22.61	22.68								
5	16QAM	1	24	22.49	22.54	22.54	22.7	3						
5	16QAM	12	0	21.43	21.67	21.69								
5	16QAM	12	7	21.52	21.50	21.50								
5	16QAM	12	13	21.62	21.65	21.61	20.7	5						
5	16QAM	25	0	20.96	21.00	21.00								
5	16QAM	25	0	19.96	20.05	20.05								
5	256QAM	1	12	20.13	20.24	20.08	20.7	5						
5	256QAM	1	24	19.95	20.10	19.95								
5	256QAM	12	0	19.96	20.06	19.97								
5	256QAM	12	7	19.96	19.99	19.99	20.7	5						
5	256QAM	12	13	19.76	19.81	19.81								
5	256QAM	25	0	19.96	19.98	19.99								
Channel														
Frequency (MHz)														
3	QPSK	1	0	24.46	24.58	24.51	25.7	0						
3	QPSK	1	8	24.65	24.61	24.67								
3	QPSK	1	14	24.56	24.60	24.57								
3	QPSK	8	0	23.68	23.81	23.74	24.7	1						
3	QPSK	8	4	23.49	23.53	23.62								
3	QPSK	8	7	23.61	23.44	23.44								
3	QPSK	8	14	23.62	23.77	23.66	24.7	1						
3	16QAM	1	0	23.97	23.63	24.00								
3	16QAM	1	8	23.97	23.84	24.04								
3	16QAM	8	0	22.82	22.97	22.86	23.7	2						
3	16QAM	8	4	22.65	22.62	22.47								
3	16QAM	8	7	22.44	22.46	22.59								
3	16QAM	15	0	22.55	22.63	22.65	23.7	2						
3	16QAM	15	0	22.69	22.63	22.67								
3	16QAM	1	8	22.72	22.61	22.65								
3	16QAM	1	14	22.60	22.80	22.72	22.7	3						
3	16QAM	8	0	21.44	21.55	21.61								
3	16QAM	8	4	21.50	21.62	21.57								
3	16QAM	8	7	21.53	21.55	21.59	20.7	5						
3	256QAM	1	0	19.98	20.14	20.03								
3	256QAM	1	8	20.12	20.14	20.16								
3	256QAM	1	14	19.97	20.12	19.96	20.7	5						
3	256QAM	8	0	20.06	20.02	19.99								
3	256QAM	8	4	19.86	19.97	19.95								
3	256QAM	8	7	19.80	19.97	19.79	20.7	5						
3	256QAM	15	0	19.98	19.91	19.75								
3	256QAM	15	0	19.98	19.91	19.75								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	24.44	24.56	24.57	25.7	0						
1.4	QPSK	1	3	24.47	24.54	24.53								
1.4	QPSK	1	5	24.58	24.61	24.57								
1.4	QPSK	3	0	24.44	24.53	24.40	24.7	1						
1.4	QPSK	3	1	24.41	24.55	24.48								
1.4	QPSK	3	3	24.53	24.48	24.43								
1.4	16QAM	1	0	23.59	23.68	23.63	24.7	1						
1.4	16QAM	1	3	23.59	23.80	23.68								
1.4	16QAM	1	5	23.75	23.84	24.15								
1.4	16QAM	3	0	23.63	23.62	23.89	23.7	2						
1.4	16QAM	3	1	23.63	23.72	23.63								
1.4	16QAM	3	3	23.63	23.68	24.01								
1.4	16QAM	8	0	22.48	22.52	22.61	23.7	2						
1.4	16QAM	8	0	22.56	22.64	22.57								
1.4	16QAM	8	3	22.73	22.68	22.71								
1.4	16QAM	3	0	22.56	22.64	22.68	22.7	2						
1.4	16QAM	3	0	22.50	22.48	22.50								
1.4	16QAM	3	1	22.62	22.60	22.61								
1.4	16QAM	3	3	22.33	22.52	22.57	22.7	3						
1.4	16QAM	8	0	21.52	21.56	21.53								
1.4	16QAM	8	0	20.51	20.12	19.99								
1.4	256QAM	1	3	20.10	20.17	20.15	20.7	5						
1.4	256QAM	1	5	19.99	20.11	19.96								
1.4	256QAM	3	0	19.95	20.06	19.91								
1.4	256QAM	3	1	19.96	19.99	19.97								



Band 17_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq. (dBm)	Power Med Ch / Freq. (dBm)	Power High Ch / Freq. (dBm)	Turn-on time (sec)	MFR (dB)	
Channel									
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.75	24.76	24.72	25.7	0	
10	QPSK	1	25	24.65	24.74	24.70			
10	QPSK	1	49	24.61	24.67	24.68			
10	QPSK	25	0	23.68	23.80	23.70			
10	QPSK	25	12	23.65	23.72	23.68			
10	QPSK	25	25	23.61	23.65	23.64	24.7	1	
10	QPSK	50	0	23.68	23.76	23.72			
10	16QAM	1	0	23.69	24.08	24.08			
10	16QAM	1	25	23.75	24.18	24.15			
10	16QAM	1	49	23.68	24.19	24.20			
10	16QAM	1	0	22.87	22.70	22.78	23.7	2	
10	16QAM	25	12	22.84	22.63	22.76			
10	16QAM	25	25	22.88	22.94	22.82			
10	16QAM	50	0	22.87	22.70	22.68			
10	16QAM	1	0	22.86	22.65	22.60			
10	16QAM	1	25	22.86	22.89	22.80	23.7	2	
10	16QAM	1	49	23.02	22.80	22.73			
10	16QAM	25	0	21.85	21.82	21.82			
10	16QAM	25	12	21.70	21.71	21.68			
10	16QAM	25	25	21.68	21.73	21.68			
10	16QAM	50	0	21.69	21.73	21.68	22.7	3	
10	16QAM	50	0	21.69	21.73	21.68			
10	16QAM	1	25	20.18	20.13	20.13			
10	256QAM	1	49	20.10	20.21	20.16			
10	256QAM	25	6	19.97	20.03	19.98			
10	256QAM	25	12	20.07	20.15	19.95	20.7	5	
10	256QAM	25	25	20.00	20.09	20.06			
10	256QAM	50	0	19.97	20.04	19.98			
Channel									
Frequency (MHz)				706.5 <th>707</th> <th>713.5</th> <th>Turn-on time (sec)</th> <th>MFR (dB)</th> <th></th>	707	713.5	Turn-on time (sec)	MFR (dB)	
5	QPSK	1	0	24.39	24.40	24.50	25.7	0	
5	QPSK	1	12	24.49	24.60	24.60			
5	QPSK	1	24	24.64	24.66	24.62			
5	QPSK	12	0	23.55	23.67	23.56			
5	QPSK	12	7	23.59	23.60	23.60			
5	QPSK	12	13	23.60	23.51	23.52	24.7	1	
5	QPSK	25	0	23.61	23.64	23.68			
5	16QAM	1	0	23.54	23.96	23.93			
5	16QAM	1	12	23.61	24.14	24.02			
5	16QAM	1	24	23.70	24.04	24.08			
5	16QAM	12	0	22.59	22.58	22.64	23.7	2	
5	16QAM	12	7	22.61	22.65	22.69			
5	16QAM	12	13	22.54	22.57	22.48			
5	16QAM	25	0	22.50	22.58	22.49			
5	16QAM	25	0	22.56	22.59	22.60			
5	16QAM	1	0	22.50	22.57	22.52	23.7	2	
5	16QAM	12	0	21.53	21.53	21.53			
5	16QAM	12	7	21.53	21.63	21.65			
5	16QAM	12	13	21.60	21.59	21.51			
5	16QAM	25	0	21.50	21.68	21.47			
5	256QAM	1	0	20.15	20.18	20.03	20.7	5	
5	256QAM	1	12	20.04	20.07	20.01			
5	256QAM	1	24	20.00	20.11	20.06			
5	256QAM	12	0	19.87	19.98	19.86			
5	256QAM	12	7	20.00	19.98	19.86			
5	256QAM	12	13	19.91	20.10	19.85	20.7	5	
5	256QAM	25	0	19.93	20.00	19.80			

Band 17_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Turn-on time (sec)	MFR (dB)	
Channel									
Frequency (MHz)				709	710	711			
10	QPSK	1	0	24.02	24.16	24.00	25.5	0	
10	QPSK	1	25	24.01	24.04	23.95			
10	QPSK	1	49	23.98	24.02	23.91			
10	QPSK	25	0	23.07	23.17	23.11			
10	QPSK	25	12	22.99	23.08	23.02			
10	QPSK	25	25	23.02	23.03	23.04	24.5	1	
10	QPSK	50	0	22.88	23.15	23.10			
10	16QAM	1	0	23.21	23.19	23.22			
10	16QAM	1	25	23.24	23.27	23.19			
10	16QAM	1	49	23.27	23.32	23.36			
10	16QAM	1	0	21.98	22.03	22.04	23.5	2	
10	16QAM	25	12	21.97	22.02	22.01			
10	16QAM	25	25	21.96	22.01	22.01			
10	16QAM	50	0	22.08	22.03	21.99			
10	16QAM	1	0	22.07	22.16	22.11			
10	16QAM	1	25	22.16	22.21	22.22	23.5	2	
10	16QAM	1	49	22.32	22.29	22.34			
10	16QAM	25	0	20.95	21.07	21.07			
10	16QAM	25	12	20.97	21.03	20.97			
10	16QAM	25	25	20.96	21.04	20.96			
10	16QAM	50	0	21.02	20.96	21.02	22.5	3	
10	16QAM	50	0	21.02	20.96	21.02			
10	256QAM	1	25	19.45	19.61	19.48			
10	256QAM	1	49	19.49	19.65	19.44			
10	256QAM	25	0	19.34	19.45	19.27			
10	256QAM	25	12	19.30	19.41	19.30	20.5	5	
10	256QAM	25	25	19.39	19.45	19.33			
10	256QAM	50	0	19.27	19.38	19.23			
Channel									
Frequency (MHz)				706.5 <th>710</th> <th>713.5</th> <th>Turn-on time (sec)</th> <th>MFR (dB)</th> <th></th>	710	713.5	Turn-on time (sec)	MFR (dB)	
5	QPSK	1	0	23.85	24.08	23.87	25.5	0	
5	QPSK	1	12	23.92	24.01	24.00			
5	QPSK	1	24	23.93	23.90	23.90			
5	QPSK	12	0	22.82	23.07	23.07			
5	QPSK	12	7	22.87	22.94	22.91			
5	QPSK	12	13	22.84	22.96	22.85	24.5	1	
5	QPSK	25	0	22.84	23.08	23.08			
5	16QAM	1	0	23.05	23.09	23.08			
5	16QAM	1	12	23.14	23.21	23.20			
5	16QAM	1	24	23.18	23.25	23.20			
5	16QAM	12	0	21.80	21.82	21.88	23.5	2	
5	16QAM	12	7	21.82	21.89	21.81			
5	16QAM	12	13	22.00	22.00	21.80			
5	16QAM	25	0	21.88	21.93	21.88			
5	16QAM	25	0	22.04	22.09	21.87			
5	16QAM	1	0	20.99	20.94	20.90	22.5	3	
5	16QAM	12	0	20.99	20.94	20.90			
5	16QAM	12	13	20.95	21.01	20.92			
5	16QAM	25	0	20.86	20.98	20.86			
5	256QAM	1	0	19.42	19.56	19.52			
5	256QAM	1	12	19.41	19.58	19.54	20.5	5	
5	256QAM	1	24	19.28	19.49	19.45			
5	256QAM	12	0	19.32	19.42	19.15			
5	256QAM	12	7	19.13	19.32	19.20			
5	256QAM	12	13	19.31	19.30	19.21			
5	256QAM	25	0	19.23	19.30	19.07	20.5	5	
5	256QAM	25	0	19.23	19.30	19.07			

Band 26_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power (W)	Power (dBm)	Power (dBm)	Power (dBm)	Turnup (s)	MFR (dB)
Frequency (MHz)				811.5	811.5	811.5	811.5		
15	QPSK	1	0	24.26	-24.33	23.90		25.5	0
15	QPSK	1	37	24.12	-23.98	23.82			
15	QPSK	1	74	24.07	-24.05	23.87			
15	QPSK	36	0	23.05	-23.14	23.04			
15	QPSK	36	20	23.01	-23.08	23.03			
15	QPSK	36	36	23.04	-23.02	23.01		24.5	1
15	QPSK	75	0	23.01	-23.15	23.07			
15	16QAM	1	0	23.39	-23.57	23.48			
15	16QAM	1	37	23.54	-23.35	23.12			
15	16QAM	1	74	22.91	-23.50	23.05			
15	16QAM	36	0	21.89	-22.30	22.02		23.5	2
15	16QAM	36	20	21.91	-21.97	22.07			
15	16QAM	36	36	22.05	-21.99	22.00			
15	16QAM	75	0	22.00	-21.9	22.00		23.5	0
15	16QAM	1	0	23.20	-23.31	23.24			
15	16QAM	1	37	23.32	-22.42	22.37			
15	16QAM	1	74	22.25	-22.30	22.29			
15	16QAM	36	0	22.35	-21.03	22.07			
15	16QAM	36	20	21.06	-20.88	21.08		22.5	3
15	16QAM	36	36	21.08	-20.97	21.09			
15	16QAM	75	0	20.92	-20.92	21.04			
15	25QAM	1	0	19.38	-19.40	19.33		20.5	0
15	25QAM	1	37	19.42	-19.42	19.35			
15	25QAM	1	74	19.39	-19.29	19.30			
15	25QAM	36	0	19.35	-19.42	19.22			
15	25QAM	36	20	19.42	-19.40	19.29			
15	25QAM	36	36	19.25	-19.29	19.21		20.5	0
15	25QAM	75	0	19.30	-19.38	19.25			
15	25QAM	75	0	19.30	-19.38	19.25			
Frequency (MHz)				819	811.5	844	811.5		
10	QPSK	1	0	24.22	-24.33	23.92		25.5	0
10	QPSK	1	25	24.11	-23.69	24.11			
10	QPSK	1	25	23.39	-23.69	23.39			
10	QPSK	25	0	22.06	-22.09	22.05			
10	QPSK	25	12	22.01	-22.04	22.00			
10	QPSK	25	12	22.05	-22.03	22.00		24.5	1
10	QPSK	50	0	22.09	-22.08	22.04			
10	16QAM	1	0	23.30	-23.39	23.29			
10	16QAM	1	25	23.42	-23.33	23.35			
10	16QAM	1	49	22.74	-23.34	23.01			
10	16QAM	25	0	21.87	-21.90	21.88		23.5	2
10	16QAM	25	12	21.94	-21.95	22.01			
10	16QAM	25	25	21.90	-21.81	21.97			
10	16QAM	50	0	21.84	-21.91	21.85		23.5	2
10	16QAM	50	12	22.13	-22.12	22.10			
10	16QAM	1	25	22.13	-22.33	22.29			
10	16QAM	50	49	22.19	-22.17	22.25			
10	16QAM	25	12	20.83	-20.89	20.84			
10	16QAM	25	12	20.96	-20.94	20.95		22.5	3
10	16QAM	50	0	20.88	-20.90	20.89			
10	16QAM	50	12	20.94	-20.93	20.90			
10	25QAM	1	0	19.22	-19.34	19.25		20.5	0
10	25QAM	1	25	19.29	-19.34	19.44			
10	25QAM	1	49	19.34	-19.10	19.38			
10	25QAM	25	0	19.20	-19.29	19.12			
10	25QAM	25	12	19.15	-19.33	19.28			
10	25QAM	25	12	19.15	-19.20	19.11		20.5	0
10	25QAM	50	0	19.25	-19.34	19.12			



Band 66_Ant 0

RF [MHz]	Modulation	RB Size	RB Offset	Low Power Mod Ch./F.Freq.	Mod Ch./F.Freq.	High Power Mod Ch./F.Freq.	Time-up int. (sec)	MPR (dB)
Channel								
Frequency [MHz]								
20	QPSK	1	0	17.23	17.45	17.5	23	0
20	QPSK	1	49	21.61	21.51	21.73		
20	QPSK	1	99	21.73	21.76	21.71	22	1
20	QPSK	50	24	20.75	20.82	20.81		
20	QPSK	50	50	20.78	20.83	20.76	22	1
20	QPSK	100	0	20.77	20.80	20.82		
20	16QAM	1	49	20.97	20.91	21.02	22	1
20	16QAM	1	99	21.09	21.12	21.21		
20	16QAM	50	0	19.73	19.58	19.77	21	2
20	16QAM	50	24	19.63	19.55	19.83		
20	16QAM	50	50	19.84	19.85	19.73	21	2
20	16QAM	100	0	19.64	19.85	19.85		
20	64QAM	1	0	19.85	20.36	20.11	21	2
20	64QAM	1	49	19.84	20.23	19.71		
20	64QAM	1	99	19.83	19.83	19.77	20	3
20	64QAM	50	24	19.84	19.86	19.78		
20	64QAM	50	50	19.88	19.87	19.85	18	5
20	64QAM	100	0	19.81	19.88	19.78		
20	256QAM	1	0	19.82	19.87	19.86	18	5
20	256QAM	1	49	17.03	17.18	17.05		
20	256QAM	1	99	17.01	17.13	17.08	18	5
20	256QAM	50	24	16.84	16.90	16.75		
20	256QAM	50	50	16.84	16.89	16.92	18	5
20	256QAM	100	0	16.82	16.92	16.97		
Channel								
Frequency [MHz]								
15	QPSK	1	0	17.14	17.32	17.36	23	0
15	QPSK	1	49	21.74	21.64	21.63		
15	QPSK	1	74	21.62	21.72	21.72	23	0
15	QPSK	36	0	20.79	20.82	20.82		
15	QPSK	36	39	20.79	20.88	20.89	22	1
15	QPSK	36	39	20.77	20.89	20.75		
15	16QAM	1	0	20.68	20.68	20.75	22	1
15	16QAM	1	99	20.81	21.09	21.11		
15	16QAM	1	37	20.97	20.86	20.93	22	1
15	16QAM	1	74	19.87	19.77	19.76		
15	16QAM	36	20	19.52	19.57	19.76	21	2
15	16QAM	36	20	19.52	19.56	19.82		
15	16QAM	75	0	19.55	19.72	19.54	21	2
15	64QAM	1	0	19.73	20.1	20.01		
15	64QAM	1	99	19.73	20.1	20.01	20	3
15	64QAM	1	74	19.8	19.71	19.68		
15	64QAM	36	0	19.63	19.71	19.67	20	3
15	64QAM	36	39	19.63	19.77	19.66		
15	64QAM	36	39	19.52	19.77	19.56	18	5
15	64QAM	75	0	19.62	19.67	19.66		
15	256QAM	1	0	19.62	19.67	19.66	18	5
15	256QAM	1	37	17.02	17.12	17.10		
15	256QAM	1	74	16.98	17.05	17.00	18	5
15	256QAM	50	24	16.85	16.90	16.78		
15	256QAM	50	50	16.83	16.88	16.83	18	5
15	256QAM	100	0	16.83	16.92	16.76		
Channel								
Frequency [MHz]								
10	QPSK	1	0	17.13	17.35	17.4	23	0
10	QPSK	1	49	21.7	21.63	21.63		
10	QPSK	1	74	21.62	21.72	21.72	23	0
10	QPSK	36	0	20.79	20.82	20.82		
10	QPSK	36	39	20.79	20.88	20.89	22	1
10	QPSK	36	39	20.77	20.89	20.75		
10	16QAM	1	0	20.68	20.68	20.75	22	1
10	16QAM	1	99	20.81	21.09	21.11		
10	16QAM	1	37	20.97	20.86	20.93	22	1
10	16QAM	1	74	19.87	19.77	19.76		
10	16QAM	36	20	19.52	19.56	19.82	21	2
10	16QAM	36	20	19.52	19.56	19.82		
10	16QAM	75	0	19.55	19.72	19.54	21	2
10	64QAM	1	0	19.73	20.1	20.01		
10	64QAM	1	99	19.73	20.1	20.01	20	3
10	64QAM	1	74	19.8	19.71	19.68		
10	64QAM	36	0	19.63	19.71	19.67	20	3
10	64QAM	36	39	19.63	19.77	19.66		
10	64QAM	36	39	19.52	19.77	19.56	18	5
10	64QAM	75	0	19.62	19.67	19.66		
10	256QAM	1	0	19.62	19.67	19.66	18	5
10	256QAM	1	37	17.02	17.12	17.10		
10	256QAM	1	74	16.98	17.05	17.00	18	5
10	256QAM	50	24	16.85	16.90	16.78		
10	256QAM	50	50	16.83	16.88	16.83	18	5
10	256QAM	100	0	16.83	16.92	16.76		
Channel								
Frequency [MHz]								
5	QPSK	1	0	17.14	17.32	17.36	23	0
5	QPSK	1	49	21.74	21.64	21.63		
5	QPSK	1	74	21.62	21.72	21.72	23	0
5	QPSK	36	0	20.79	20.82	20.82		
5	QPSK	36	39	20.79	20.88	20.89	22	1
5	QPSK	36	39	20.77	20.89	20.75		
5	16QAM	1	0	20.68	20.68	20.75	22	1
5	16QAM	1	99	20.81	21.09	21.11		
5	16QAM	1	37	20.97	20.86	20.93	22	1
5	16QAM	1	74	19.87	19.77	19.76		
5	16QAM	36	20	19.52	19.57	19.82	21	2
5	16QAM	36	20	19.52	19.56	19.82		
5	16QAM	75	0	19.55	19.72	19.54	21	2
5	64QAM	1	0	19.73	20.1	20.01		
5	64QAM	1	99	19.73	20.1	20.01	20	3
5	64QAM	1	74	19.8	19.71	19.68		
5	64QAM	36	0	19.63	19.71	19.67	20	3
5	64QAM	36	39	19.63	19.77	19.66		
5	64QAM	36	39	19.52	19.77	19.56	18	5
5	64QAM	75	0	19.62	19.67	19.66		
5	256QAM	1	0	19.62	19.67	19.66	18	5
5	256QAM	1	37	17.02	17.12	17.10		
5	256QAM	1	74	16.98	17.05	17.00	18	5
5	256QAM	50	24	16.85	16.90	16.78		
5	256QAM	50	50	16.83	16.88	16.83	18	5
5	256QAM	100	0	16.83	16.92	16.76		
Channel								
Frequency [MHz]								
15	QPSK	1	0	21.61	21.66	21.73	23	0
15	QPSK	1	49	21.61	21.51	21.73		
15	QPSK	1	99	21.73	21.76	21.71	23	0
15	QPSK	50	24	20.75	20.80	20.85		
15	QPSK	50	50	20.76	20.80	20.76	22	1
15	QPSK	100	0	20.77	20.80	20.82		
15	16QAM	1	49	20.97	20.91	21.02	22	1
15	16QAM	1	99	21.09	21.12	21.21		
15	16QAM	50	0	19.73	19.77	19.76	21	2
15	16QAM	50	24	19.63	19.55	19.83		
15	16QAM	50	50	19.84	19.85	19.73	21	2
15	16QAM	100	0	19.64	19.85	19.85		
15	64QAM	1	0	19.85	20.36	20.11	21	2
15	64QAM	1	49	19.84	20.23	19.71		
15	64QAM	1	99	19.83	19.83	19.77	20	3
15	64QAM	50	24	19.84	19.86	19.78		
15	64QAM	50	50	19.88	19.87	19.85	18	5
15	64QAM	100	0	19.81	19.88	19.78		
15	256QAM	1	0	19.82	19.87	19.86	18	5
15	256QAM	1	49	17.03	17.18	17.05		
15	256QAM	1	99	17.01	17.13	17.08	18	5
15	256QAM	50	24	16.84	16.90	16.75		
15	256QAM	50	50	16.84	16.89	16.92	18	5
15	256QAM	100	0	16.82	16.92	16.97		
Channel								
Frequency [MHz]								
10	QPSK	1	0	21.5	21.53	21.63	23	0
10	QPSK	1	49	21.67	21.69	21.69		
10	QPSK	1	74	21.62	21.72	21.72	23	0
10	QPSK	36	0	20.79	20.82	20.82		
10	QPSK	36	39	20.79	20.88	20.89	22	1
10	QPSK	36	39	20.77	20.89	20.75		
10	16QAM	1	0	20.68	20.68	20.75	22	1
10	16QAM	1	99	20.81	21.08	21.11		
10	16QAM	1	37	20.97	20.88	20.93	22	1
10	16QAM	1	74	19.87	19.77	19.76		
10	16QAM	36	20	19.52	19.59	19.82	21	2
10	16QAM	36	20	19.52	19.59	19.82		
10	16QAM	75	0	19.55	19.72	19.54	21	2
10	64QAM	1	0	19.73	20.1	20.01		
10	64QAM	1	99	19.73	20.1	20.01	20	3
10	64QAM	1	74	19.8	19.71	19.68		
10	64QAM	36	0	19.63	19.71	19.67	20	3
10	64QAM	36	39	19.63	19.77	19.66		
10	64QAM	36	39	19.52	19.77	19.56	18	5
10	64QAM	75	0	19.62	19.67	19.66		
10	256QAM	1	0	19.62	19.67	19.66	18	5
10	256QAM	1	37	17.02	17.12	17.10		
10	256QAM	1	74	16.98	17.05	17.00	18	5
10	256QAM	50	24	16.85	16.90	16.78		
10	256QAM	50	50	16.83	16.88	16.78	18	5
10	256QAM	100	0	16.83	16.92	16.76		
Channel								
Frequency [MHz]								
5	QPSK	1	0	21.5	21.53	21.63	23	0
5	QPSK	1	49	21.67	21.69	21.69		
5	QPSK	1	74	21.62	21.72	21.72	23	0
5	QPSK	36	0	20.79	20.82	20.82		
5	QPSK	36	39	20.79	20.88	20.89	22	1
5	QPSK	36	39	20.77	20.89	20.75		
5	16QAM	1	0	20.68	20.68	20.75	22	1
5	16QAM	1	99	20.81	21.08	21.11		
5	16QAM	1	37	20.97	20.88	20.93	22	1
5	16QAM	1	74	19.87	19.77	19.76		
5	16QAM	36	20	19.52	19.59	19.82	21	2
5	16QAM	36	20	19.52	19.59	19.82		
5	16QAM	75	0	19.55	19.72	19.54	21	2
5	64QAM	1	0	19.73	20.1	20.01		
5	64QAM	1	99	19.73	20.1	20.01	20	



Band 38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Peak Ch / Freq	Power Max Ch / Freq	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
37860 38000 38100									
20	QPSK	1	0	22.76	22.89	22.77			
20	QPSK	1	49	22.52	22.62	22.58	24	0	
20	QPSK	1	99	22.60	22.69	22.65			
20	QPSK	50	0	21.71	21.78	21.70			
20	QPSK	50	24	21.62	21.74	21.68	23	1	
20	QPSK	50	50	21.62	21.74	21.68			
20	QPSK	100	0	21.82	21.85	21.88			
20	16QAM	1	0	21.70	21.82	21.76	23	1	
20	16QAM	1	49	21.72	22.02	21.75			
20	16QAM	1	99	21.71	21.82	21.77			
20	16QAM	50	0	20.89	20.86	20.89			
20	16QAM	50	24	20.81	20.75	20.77	22	2	
20	16QAM	50	50	20.85	20.83	20.77			
20	16QAM	100	0	20.87	20.88	20.79			
20	64QAM	1	0	20.55	20.72	20.57			
20	64QAM	1	49	20.61	20.69	20.59	22	2	
20	64QAM	1	99	20.56	20.73	20.65			
20	64QAM	50	0	19.80	19.73	19.71			
20	64QAM	50	24	19.80	19.77	19.77	21	3	
20	64QAM	50	50	19.80	19.79	19.73			
20	64QAM	100	0	19.88	19.80	19.82			
20	256QAM	1	0	17.81	17.57	17.55			
20	256QAM	1	49	17.85	17.56	17.58	19	5	
20	256QAM	1	99	17.88	17.58	17.47			
20	256QAM	50	0	17.83	17.74	17.73			
20	256QAM	50	24	17.78	17.76	17.76	19	5	
20	256QAM	50	50	17.72	17.84	17.80			
20	256QAM	100	0	17.81	17.82	17.82			
Channel									
Frequency (MHz)									
37865 38000 38175									
15	QPSK	1	0	22.73	22.75	22.73			
15	QPSK	1	37	22.56	22.35	22.54	24	0	
15	QPSK	1	74	22.53	22.43	22.49			
15	QPSK	1	111	21.68	21.71	21.68			
15	QPSK	36	20	21.52	21.48	21.68	23	1	
15	QPSK	36	56	21.65	21.62	21.63			
15	QPSK	75	0	21.66	21.82	21.63			
15	16QAM	1	0	21.80	21.57	21.57			
15	16QAM	1	37	21.82	21.53	21.70	23	1	
15	16QAM	1	74	21.91	21.73	21.70			
15	16QAM	36	0	20.77	20.54	20.64			
15	16QAM	36	20	20.35	20.35	20.35	22	2	
15	16QAM	36	56	20.91	20.59	20.69			
15	16QAM	75	0	20.62	20.58	20.60			
15	64QAM	1	0	20.51	20.34	20.36			
15	64QAM	1	37	20.81	20.42	20.52	22	2	
15	64QAM	1	74	20.78	20.55	20.63			
15	64QAM	36	0	19.85	19.50	19.64			
15	64QAM	36	20	19.82	19.62	19.64	21	3	
15	64QAM	36	56	19.85	19.71	19.75			
15	64QAM	75	0	19.75	19.45	19.75			
15	256QAM	1	0	17.43	17.57	17.52			
15	256QAM	1	37	17.45	17.41	17.50	19	5	
15	256QAM	1	74	17.54	17.40	17.50			
15	256QAM	36	0	17.71	17.74	17.54			
15	256QAM	36	20	17.72	17.67	17.68	19	5	
15	256QAM	36	56	17.83	17.69	17.58			
15	256QAM	75	0	17.85	17.59	17.47			
Channel									
Frequency (MHz)									
38175 38300 38505									
10	QPSK	1	0	22.82	22.80	22.81			
10	QPSK	1	25	22.46	22.38	22.45	24	0	
10	QPSK	1	49	22.54	22.44	22.52			
10	QPSK	1	73	21.72	21.75	21.68			
10	QPSK	25	12	21.56	21.49	21.60	23	1	
10	QPSK	25	25	21.76	21.64	21.72			
10	QPSK	50	0	21.70	21.74	21.64			
10	16QAM	1	0	21.76	21.65	21.68	23	1	
10	16QAM	1	25	21.81	21.69	21.86			
10	16QAM	1	49	21.91	21.60	21.79			
10	16QAM	25	0	20.87	20.67	20.70			
10	16QAM	25	12	20.74	20.58	20.66	22	2	
10	16QAM	25	25	20.88	20.63	20.68			
10	16QAM	50	0	20.61	20.58	20.60			
10	64QAM	1	0	20.85	20.68	20.69			
10	64QAM	1	25	20.87	20.36	20.52	22	2	
10	64QAM	1	49	20.75	20.50	20.61			
10	64QAM	25	0	19.78	19.42	19.74			
10	64QAM	25	12	19.73	19.63	19.64	21	3	
10	64QAM	25	25	19.71	19.54	19.63			
10	64QAM	50	0	19.62	19.57	19.60			
10	256QAM	1	0	17.41	17.54	17.44			
10	256QAM	1	25	17.41	17.48	17.35	19	5	
10	256QAM	1	49	17.53	17.41	17.35			
10	256QAM	25	0	17.88	17.82	17.58			
10	256QAM	25	12	17.74	17.61	17.66	19	5	
10	256QAM	25	25	17.58	17.79	17.52			
10	256QAM	50	0	17.48	17.65	17.56			
Channel									
Frequency (MHz)									
38505 38600 38675									
5	QPSK	1	0	22.84	22.71	22.54			
5	QPSK	1	12	22.57	22.32	22.45	24	0	
5	QPSK	1	24	22.48	22.51	22.48			
5	QPSK	12	0	21.83	21.73	21.86			
5	QPSK	12	7	21.59	21.49	21.59	23	1	
5	QPSK	12	13	21.70	21.62	21.62			
5	QPSK	25	0	21.81	21.76	21.69			
5	16QAM	1	0	21.88	21.54	21.58			
5	16QAM	1	12	21.93	21.52	21.80	23	1	
5	16QAM	1	24	21.91	21.73	21.73			
5	16QAM	12	0	20.74	20.59	20.62			
5	16QAM	12	7	20.69	20.65	20.66	22	2	
5	16QAM	12	13	20.83	20.36	20.70			
5	16QAM	25	0	20.73	20.40	20.56			
5	64QAM	1	0	20.53	20.50	20.47			
5	64QAM	1	12	20.61	20.40	20.54	22	2	
5	64QAM	1	24	20.70	20.55	20.57			
5	64QAM	12	0	19.70	19.43	19.60			
5	64QAM	12	7	19.63	19.60	19.55	21	3	
5	64QAM	12	13	19.82	19.65	19.62			
5	64QAM	25	0	19.75	19.54	19.60			
5	256QAM	1	0	17.42	17.54	17.50			
5	256QAM	1	12	17.44	17.46	17.54	19	5	
5	256QAM	1	24	17.54	17.52	17.52			
5	256QAM	12	0	17.59	17.82	17.64			
5	256QAM	12	7	17.75	17.71	17.70	19	5	
5	256QAM	12	13	17.64	17.73	17.52			
5	256QAM	25	0	17.38	17.59	17.50			

Band 38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Peak Ch / Freq	Power Max Ch / Freq	Turn-up time (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
37860 38000 38100									
20	QPSK	1	0	23.33	23.35	23.18			
20	QPSK	1	49	23.24	23.20	23.29	25	0	
20	QPSK	1	99	23.02	23.12	23.05			
20	QPSK	50	0	22.41	22.45	22.32			
20	QPSK	50	24	22.34	22.26	22.37	24	1	
20	QPSK	50	50	22.40	22.24	22.31			
20	QPSK	100	0	22.34	22.35	22.30			
20	16QAM	1	0	22.50	22.22	22.43	24	1	
20	16QAM	1	49	22.50	22.37	22.34			
20	16QAM	1	99	22.50	22.69	22.57			
20	16QAM	50	0	21.34	21.21	21.26			
20	16QAM	50	24	21.40	21.23	21.37	23	2	
20	16QAM	50	50	21.42	21.35	21.42			
20	16QAM	100	0	21.40	21.35	21.35			
20	64QAM	1	0	21.51	21.35	21.40			
20	64QAM	1	49	21.59	21.30	21.56	23	2	
20	64QAM	1	99	21.48	21.57	21.55			
20	64QAM	50	0	20.53	20.44	20.58			
20	64QAM	50	24	20.55	20.37	20.51	22	3	
20	64QAM	50	50	20.60	20.49	20.58			
20	64QAM	100	0	20.66	20.42	20.55			
20	256QAM	1	0	18.25	18.28	18.10			
20	256QAM	1	49	18.20	18.32	18.24	20	5	
20	256QAM	1	99	18.24	18.31	18.16			
20	256QAM	50	0	18.20	18.	18.16			
20	256QAM	50	24	18.22	18.02	18.17	20	5	
20	256QAM	50	50	18.24	18.06	18.18			
20	256QAM	50	99	18.26	18.07	18.27			
20	256QAM	100	0	18.28	18.02	18.19			
Channel									
Frequency (MHz)									
37860 38000 38100									
15	QPSK	1	0	23.33	23.35	23.12			
15	QPSK	1	23	23.24	23.08	23.18	25	0	
15	QPSK	1	47	23.15	23.07	23.07			
15	QPSK	36	0	22.40	22.44	22.32			
15	QPSK	36	24	22.34	22.13	22.25	24	1	
15	QPSK	36	48	22.28	22.14	22.23			
15	QPSK	78	0	22.30	22.22	22.25			
15	16QAM	1	0	22.39	22.22	22.30			
15	16QAM	1	23	22.27	22.27	22.24	24	1	
15	16QAM	1	47	22.18	22.05	22.21			
15	16QAM	36	0	21.43	21.31	21.21			
15	16QAM	36	24	21.39	21.32	21.38	23	2	
15	16QAM	36	48	21.31	21.13	21.28			
15	64QAM	1	0	21.44	21.31	21.37			
15	64QAM	1	23	21.50	21.36	21.44	23	2	
15	64QAM	1	47	21.40	21.24	21.53			
15	64QAM	36	0	20.39	20.31	20.53			
15	64QAM	36	24	20.52	20.36	20.48	22	3	
15	64QAM	36	48	20.59	20.38	20.48			
15	64QAM	78	0	20.55	20.41	20.48			
15	256QAM	1	0	18.22	18.22	18.05			
15	256QAM	1	23	18.09	18.27	18.22	20	5	
15	256QAM	1	47	18.17	18.21	18.09			
15	256QAM	36	0	18.24	18.02	18.26			
15	256QAM	36	24	18.13	18.08	18.18	20	5	
15	256QAM	36	48	18.24	18.06	18.13			
15	256QAM	78	0	18.18	18.27	18.19			
Channel									
Frequency (MHz)									
37775 38000 38225									
5	QPSK	1	0	23.31	23.32	23.12			
5	QPSK	1	23	23.17	23.07	23.28	25	0	
5	QPSK	1	47	23.09	23.01	23.21			
5	QPSK	26	0	22.38	22.38	22.30			
5	QPSK	26	13	22.28	22.16	22.14	24	1	
5	QPSK	26	26	22.18	22.07	22.23			
5	QPSK	69	0	22.32	22.34	22.25			
5	16QAM	1	0	22.50	22.22	22.37			
5	16QAM	1	23	22.50	22.37	22.28	24	1	
5	16QAM	1	47	22.58	22.57	22.33			
5	16QAM	26	0	21.32	21.22	21.33			
5	16QAM	26	13	21.40	21.30	21.42	23	2	
5	16QAM	26	26	21.31	21.11	21.24			
5	64QAM	1	0	21.43	21.34	21.41			
5	64QAM	1	23	21.52	21.38	21.47	23	2	
5	64QAM	1	47	21.39	21.24	21.51			
5	64QAM	26	0	20.52	20.37	20.45			
5	64QAM	26	13	20.61	20.43	20.41	22	3	
5	64QAM	26	26	20.54	20.39	20.45			
5	64QAM	50	0	20.67	20.36	20.47			
5	256QAM	1	0	18.21	18.18	18.06			
5	256QAM	1	23	18.22	18.32	18.13	20	5	
5	256QAM	1	49	18.20	18.20	18.12			
5	256QAM	26	0	18.18	18.36	18.36			
5	256QAM	26	12	18.26	18.47	18.26	20	5	
5	256QAM	26	25	18.25	18.24	18.35			
5	256QAM	50	0	18.18	18.24	18.24			
Channel									
Frequency (MHz)									
37775 38000 38225									
5	QPSK	1	0	23.19	23.23	23.09			
5	QPSK	1	12	23.13	23.07	23.29	25	0	
5	QPSK	1	25	23.09	23.01	23.21			
5	QPSK	12	0	22.35	22.39	22.24			
5	QPSK	12	7	22.23	22.12	22.21	24	1	
5	QPSK	12	13	22.28	22.15	22.23			
5	QPSK	26	0	22.34	22.28	22.27			
5	QPSK	26	13	22.41	22.26	22.29	24	1	
5	16QAM	1	0	22.58	22.24	22.32			
5	16QAM	1	24	22.54	22.56	22.27			
5	16QAM	1	48	22.52	22.51	21.16	24	1	
5	16QAM	12	7	21.31	21.21	21.33	23	2	
5	16QAM	12	13	21.34	21.21	21.40			
5	16QAM	26	0	21.31	21.19	21.19			
5	64QAM	1	0	21.45	21.35	21.45			
5	64QAM	1	12	21.54	21.32	21.49	23	2	
5	64QAM	1	24	21.39	21.32	21.43			
5	64QAM	12	0	20.41	20.39	20.49	22	3	
5	64QAM	12	13	20.50	20.43	20.43			
5	64QAM	12	25	20.56	20.41	20.53			
5	256QAM	1	0	18.12	18.12	18.02			
5	256QAM	1	12	18.20	18.32	18.10	20	5	
5	256QAM	1	25	18.18	18.30	18.03			
5	256QAM	12	0	18.20	18.27	18.42			
5	256QAM	12	13	18.23	18.34	18.22	20	5	
5	256QAM	12	25	18.28	18.32	18.28			
5	256QAM	26	0	18.18	18.35	18.31			



Band 38_Ant 3											
RF [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up [ms]	MPE [dB]			
Channel											
Frequency [MHz]				39760	39800	39160					
20	QPSK	1	0	24.51	24.50	24.50	25.7	0			
20	QPSK	1	49	24.48	24.44	24.47					
20	QPSK	1	99	24.47	24.43	24.54					
20	QPSK	50	0	23.58	23.68	23.78					
20	QPSK	50	24	23.60	23.70	23.68	24.7	1			
20	QPSK	50	49	23.62	23.70	23.67					
20	QPSK	100	0	23.65	23.74	23.68					
20	16QAM	1	0	23.59	23.64	23.69					
20	16QAM	1	49	23.58	23.66	23.73	24.7	1			
20	16QAM	1	99	23.73	23.71	23.69					
20	16QAM	50	0	22.59	22.52	22.74					
20	16QAM	50	24	22.57	22.60	22.73					
20	16QAM	50	50	22.70	22.72	22.68	23.7	2			
20	16QAM	100	0	22.54	22.56	22.61					
20	16QAM	1	0	22.45	22.55	22.52					
20	16QAM	1	49	22.51	22.69	22.66					
20	16QAM	1	99	22.70	22.69	22.65	23.7	2			
20	16QAM	50	0	21.62	21.64	21.69					
20	16QAM	50	24	21.69	21.61	21.65					
20	16QAM	100	0	21.61	21.69	21.64					
20	256QAM	1	0	19.48	19.40	19.36	20.7	5			
20	256QAM	1	49	19.52	19.49	19.43					
20	256QAM	1	99	19.68	19.59	19.50					
20	256QAM	50	0	19.54	19.59	19.57					
20	256QAM	50	24	19.57	19.50	19.56	20.7	5			
20	256QAM	50	50	19.69	19.61	19.47					
20	256QAM	100	0	19.62	19.63	19.63					
Channel											
Frequency [MHz]				39765	39805	39175	Time-up [ms]	MPE [dB]			
15	QPSK	1	0	24.73	24.53	24.43	25.7	0			
15	QPSK	1	37	24.52	24.43	24.44					
15	QPSK	1	74	24.48	24.44	24.44					
15	QPSK	36	0	23.57	23.69	23.65					
15	QPSK	36	20	23.68	23.70	23.61	24.7	1			
15	QPSK	36	36	23.67	23.69	23.61					
15	QPSK	75	0	23.58	23.71	23.77					
15	16QAM	1	0	23.64	23.67	23.78					
15	16QAM	1	37	23.72	23.70	23.66	24.7	1			
15	16QAM	1	74	23.62	23.71	23.71					
15	16QAM	36	0	22.62	22.61	22.68					
15	16QAM	36	20	22.65	22.70	22.68					
15	16QAM	75	0	22.54	22.55	22.55	23.7	2			
15	16QAM	75	20	22.57	22.60	22.68					
15	16QAM	1	37	22.67	22.67	22.61					
15	16QAM	1	74	22.58	22.59	22.51					
15	16QAM	36	0	21.63	21.60	21.68	22.7	3			
15	16QAM	36	20	21.68	21.66	21.79					
15	16QAM	75	0	21.65	21.68	21.75					
15	16QAM	75	20	21.67	21.75	21.74					
15	256QAM	1	0	19.45	19.50	19.58	20.7	5			
15	256QAM	1	37	19.48	19.48	19.43					
15	256QAM	1	74	19.65	19.59	19.51					
15	256QAM	36	0	19.60	19.48	19.55					
15	256QAM	36	20	19.63	19.48	19.56	20.7	5			
15	256QAM	36	36	19.70	19.65	19.60					
15	256QAM	75	0	19.46	19.40	19.58					
Channel											
Frequency [MHz]				39760	39800	39200	Time-up [ms]	MPE [dB]			
10	QPSK	1	0	24.71	24.54	24.43	25.7	0			
10	QPSK	1	25	24.62	24.54	24.53					
10	QPSK	1	49	24.65	24.49	24.40					
10	QPSK	25	0	23.62	23.69	23.60					
10	QPSK	25	12	23.62	23.62	23.67	24.7	1			
10	QPSK	25	25	23.72	23.60	23.70					
10	QPSK	50	0	23.67	23.69	23.67					
10	16QAM	1	0	23.63	23.69	23.76					
10	16QAM	1	12	23.71	23.71	23.78	24.7	1			
10	16QAM	1	25	23.76	23.73	23.77					
10	16QAM	1	49	23.72	23.83	23.71					
10	16QAM	25	0	22.58	22.58	22.65					
10	16QAM	25	12	22.65	22.59	22.72	23.7	2			
10	16QAM	25	25	22.68	22.75	22.63					
10	16QAM	50	0	22.58	22.64	22.51					
10	16QAM	50	12	22.67	22.65	22.63					
10	16QAM	25	0	21.65	21.50	21.63	22.7	3			
10	16QAM	25	12	21.68	21.71	21.71					
10	16QAM	25	25	21.76	21.69	21.68					
10	16QAM	50	0	21.57	21.62	21.56					
10	256QAM	1	0	19.54	19.54	19.48	20.7	5			
10	256QAM	1	25	19.51	19.53	19.61					
10	256QAM	1	49	19.66	19.55	19.61					
10	256QAM	25	0	19.51	19.44	19.49					
10	256QAM	25	12	19.48	19.62	19.56	20.7	5			
10	256QAM	25	25	19.54	19.61	19.59					
10	256QAM	50	0	19.59	19.50	19.48					
Channel											
Frequency [MHz]				39775	39805	39220	Time-up [ms]	MPE [dB]			
5	QPSK	1	0	24.57	24.58	24.48	25.7	0			
5	QPSK	1	12	24.53	24.42	24.52					
5	QPSK	1	24	24.52	24.42	24.44					
5	QPSK	12	0	23.66	23.67	23.59					
5	QPSK	12	7	23.63	23.68	23.67	24.7	1			
5	QPSK	12	13	23.67	23.69	23.72					
5	QPSK	25	0	23.67	23.70	23.76					
5	16QAM	1	0	23.63	23.69	23.76					
5	16QAM	1	12	23.71	23.71	23.78	24.7	1			
5	16QAM	1	24	23.76	23.79	23.77					
5	16QAM	12	0	22.63	22.56	22.72					
5	16QAM	12	7	22.69	22.63	22.65					
5	16QAM	12	13	22.64	22.66	22.71	23.7	2			
5	16QAM	25	0	22.60	22.54	22.68					
5	16QAM	25	12	22.49	22.58	22.68					
5	16QAM	25	24	22.56	22.60	22.57					
5	16QAM	1	24	22.70	22.56	22.54	22.7	3			
5	16QAM	12	0	21.67	21.60	21.71					

Band 41_Ant 2												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power High Ch / Freq.	Power Low Ch / Freq.	Power High Ch / Freq.	Turn-up test (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				38750	40188	40620	41066	41490	41914			
Power				24.48	24.48	24.48	24.48	24.48	24.48			
20	QPSK	1	0	24.48	24.47	24.73	24.53	24.64	24.64	25.7	0	
20	QPSK	1	40	24.48	24.51	24.58	24.49	24.6	24.6			
20	QPSK	1	80	24.4	24.51	24.57	24.44	24.54	24.54			
20	QPSK	50	0	23.06	23.61	23.77	23.55	23.67	23.81			
20	QPSK	50	24	23.54	23.67	23.69	23.56	23.54	23.54	24.7	1	
20	QPSK	50	48	23.03	23.52	23.62	23.55	23.55	23.55			
20	QPSK	100	0	23.42	23.64	23.66	23.58	23.54	23.54			
20	16QAM	1	0	23.46	23.36	23.53	23.42	23.47	23.47	24.7	1	
20	16QAM	1	40	23.38	23.57	23.38	23.5	23.43	23.43			
20	16QAM	1	80	23.42	23.72	23.39	23.37	23.37	23.37			
20	16QAM	50	0	22.46	22.63	22.46	22.47	22.47	22.54			
20	16QAM	50	24	22.46	22.63	22.46	22.56	22.56	22.56	23.7	2	
20	16QAM	50	50	22.59	22.66	22.54	22.61	22.57	22.57			
20	16QAM	100	0	22.46	22.65	22.56	22.45	22.44	22.44			
20	16QAM	100	1	22.5	22.41	22.3	22.23	22.23	22.23			
20	16QAM	1	40	22.54	22.42	22.3	22.34	22.23	22.23	23.7	2	
20	16QAM	1	80	22.38	22.56	22.53	22.37	22.28	22.28			
20	16QAM	50	0	21.36	21.65	21.49	21.49	21.55	21.55			
20	16QAM	50	24	21.43	21.65	21.39	21.41	21.45	21.45	22.7	3	
20	16QAM	50	50	21.51	21.69	21.52	21.58	21.49	21.49			
20	16QAM	100	0	21.42	21.66	21.52	21.39	21.54	21.54			
20	256QAM	1	0	19.71	19.65	19.53	19.43	19.23	19.23	20.7	5	
20	256QAM	1	40	19.71	19.69	19.43	19.37	19.41	19.41			
20	256QAM	1	80	19.61	19.63	19.49	19.32	19.32	19.32			
20	256QAM	50	0	19.67	19.65	19.49	19.38	19.42	19.42			
20	256QAM	50	24	19.75	19.58	19.41	19.43	19.42	19.42	20.7	5	
20	256QAM	50	50	19.71	19.51	19.47	19.35	19.39	19.39			
20	256QAM	100	0	19.75	19.53	19.41	19.41	19.41	19.41			
Channel												
Frequency (MHz)				38755	40173	40620	41066	41515	41915	Turn-up test (dBm)	MPR (dB)	
Power				24.48	24.48	24.48	24.48	24.48	24.48			
15	QPSK	1	0	24.38	24.62	24.71	24.51	24.7	24.7	25.70	0	
15	QPSK	1	37	24.43	24.41	24.45	24.49	24.64	24.64			
15	QPSK	1	74	24.4	24.45	24.54	24.51	24.62	24.62			
15	QPSK	36	0	23.6	23.67	23.67	23.55	23.65	23.65	24.7	1	
15	QPSK	36	20	23.52	23.64	23.61	23.52	23.56	23.56			
15	QPSK	36	40	23.48	23.61	23.58	23.48	23.52	23.52	24.7	1	
15	QPSK	75	0	23.41	23.65	23.66	23.62	23.54	23.54			
15	16QAM	1	0	23.34	23.33	23.43	23.38	23.49	23.49	24.7	1	
15	16QAM	1	40	23.02	23.45	23.31	23.46	23.41	23.41			
15	16QAM	1	74	23.4	23.69	23.39	23.53	23.45	23.45			
15	16QAM	36	0	22.48	22.52	22.33	22.46	22.59	22.59	23.7	2	
15	16QAM	36	36	22.44	22.52	22.35	22.45	22.51	22.51			
15	16QAM	36	39	22.56	22.57	22.41	22.55	22.53	22.53			
15	16QAM	75	0	22.42	22.52	22.45	22.47	22.53	22.53	23.7	2	
15	16QAM	75	0	22.51	22.57	22.25	22.25	22.3	22.3			
15	16QAM	1	37	22.54	22.42	22.16	22.35	22.22	22.22	23.7	2	
15	16QAM	1	74	22.26	22.42	22.22	22.29	22.26	22.26			
15	16QAM	36	0	21.29	21.66	21.41	21.51	21.48	21.48	22.7	3	
15	16QAM	36	20	21.39	21.54	21.38	21.49	21.58	21.58			
15	16QAM	36	39	21.45	21.52	21.35	21.45	21.52	21.52			
15	16QAM	75	0	21.41	21.45	21.44	21.51	21.5	21.5			
15	256QAM	1	0	19.67	19.46	19.44	19.38	19.45	19.45	20.7	5	
15	256QAM	1	40	19.61	19.38	19.35	19.45	19.46	19.46			
15	256QAM	1	74	19.74	19.49	19.27	19.43	19.48	19.48			
15	256QAM	36	0	19.63	19.57	19.28	19.29	19.42	19.42	20.7	5	
15	256QAM	36	36	19.65	19.47	19.34	19.42	19.46	19.46			
15	256QAM	36	39	19.79	19.51	19.45	19.46	19.38	19.38			
15	256QAM	75	0	19.64	19.46	19.43	19.38	19.42	19.42			
Channel												
Frequency (MHz)				38750	40160	40620	41066	41540	41940	Turn-up test (dBm)	MPR (dB)	
Power				24.48	24.48	24.48	24.48	24.48	24.48			
15	QPSK	1	0	24.38	24.62	24.71	24.51	24.7	24.7	25.70	0	
15	QPSK	1	25	24.37	24.44	24.55	24.55	24.55	24.55			
15	QPSK	1	49	24.38	24.47	24.48	24.44	24.63	24.63			
15	QPSK	25	0	23.65	23.47	23.77	23.42	23.62	23.62	24.7	1	
15	QPSK	25	12	23.46	23.59	23.63	23.56	23.64	23.79			
15	QPSK	25	25	23.39	23.38	23.62	23.55	23.54	23.54			
15	QPSK	50	0	23.38	23.39	23.67	23.51	23.62	23.71			
15	16QAM	1	0	23.47	23.3	23.46	23.43	23.52	23.52	24.7	1	
15	16QAM	1	25	23.38	23.44	23.27	23.43	23.31	23.31			
15	16QAM	1	49	23.3	23.64	23.29	23.32	23.48	23.48			
15	16QAM	25	0	22.4	22.51	22.34	22.54	22.57	22.57	23.7	2	
15	16QAM	25	19	22.36	22.53	22.44	22.46	22.55	22.55			
15	16QAM	25	19	22.45	22.61	22.48	22.5	22.52	22.52			
15	16QAM	50	0	22.41	22.58	22.44	22.46	22.44	22.44	23.7	2	
15	16QAM	50	25	22.13	22.25	22.28	22.28	22.3	22.3	23.7	2	
15	16QAM	1	49	22.27	22.55	22.23	22.34	22.28	22.28			
15	16QAM	25	0	21.3	21.69	21.39	21.39	21.44	21.44	22.7	3	
15	16QAM	25	12	21.37	21.55	21.27	21.45	21.45	21.45			
15	16QAM	25	25	21.43	21.67	21.44	21.55	21.46	21.46			
15	16QAM	50	0	21.4	21.51	21.45	21.46	21.57	21.57			
15	256QAM	1	0	19.71	19.54	19.47	19.35	19.41	19.41	20.7	5	
15	256QAM	1	25	19.66	19.39	19.33	19.53	19.47	19.47			
15	256QAM	1	49	19.73	19.54	19.29	19.37	19.47	19.47			
15	256QAM	25	0	19.71	19.52	19.34	19.32	19.35	19.35	20.7	5	
15	256QAM	25	0	19.73	19.46	19.37	19.44	19.33	19.33			
15	256QAM	25	25	19.65	19.46	19.36	19.37	19.42	19.42			
15	256QAM	50	0	19.68	19.42	19.51	19.48	19.34	19.34			
Channel												
Frequency (MHz)				38750	40160	40620	41066	41560	41960	Turn-up test (dBm)	MPR (dB)	
Power				24.48	24.48	24.48	24.48	24.48	24.48			
5	QPSK	1	0	24.47	24.65	24.6	24.54	24.64	24.64	25.70	0	
5	QPSK	1	12	24.39	24.51	24.49	24.51	24.62	24.62			
5	QPSK	1	24	24.3	24.39	24.56	24.55	24.56	24.55			
5	QPSK	12	0	23.64	23.62	23.64	23.57	23.66	23.76	24.7	1	
5	QPSK	12	7	23.52	23.51	23.61	23.55	23.62	23.79			
5	QPSK	12	13	23.39	23.4	23.56	23.49	23.51	23.70			
5	QPSK	25	0	23.38	23.5	23.63	23.49	23.52	23.74			
5	16QAM	1	0	23.42	23.24	23.39	23.43	23.42	23.42	24.7	1	
5	16QAM	1	12	23.37	23.54	23.33	23.42	23.42	23.42			
5	16QAM	1	24	23.4	23.71	23.57	23.44	23.37	23.37			
5	16QAM	12	0	22.57	22.51	22.42	22.44	22.59	22.59	23.7	2	
5	16QAM	12	7	22.36	22.6	22.43	22.44	22.62	22.62			
5	16QAM	12	13	22.52	22.64	22.48	22.53	22.58	22.71			
5	16QAM	25	0	22.36	22.62	22.56	22.43	22.54	22.54	23.7	2	
5	16QAM	1	0	22.3	22.4	22.28	22.3	22.3	22.3			
5	16QAM	1	12	22.24	22.39	22.19	22.25	22.3	22.3			
5	16QAM	1	24	22.14	22.45	22.24	22.47	22.38	22.38	23.7	2	
5	16QAM	12	0	21.3	21.69	21.39	21.39	21.44	21.44	22.7	3	
5	16QAM	12	13	21.37	21.51	21.42	21.46	21.48	21.48			
5	16QAM	25	0	21.37	21.44	21.44	21.44	21.52	21.52			
5	256QAM	1	0	19.68	19.46	19.44	19.38	19.45	19.45	20.7	5	
5	256QAM	1	12	19.69	19.42	19.33	19.43	19.41	19.41			
5	256QAM	1	24	19.79	19.49	19.36	19.38	19.43	19.43			
5	256QAM	12	0	19.68	19.46	19.34	19.32	19.35	19.35</			

Reduced Power for DSI 4



Band 2_Ant 2									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Fires	Power High Ch./Fires	Power Low Ch./Fires	Power High Ch./Fires	Turn-up time (sec)	MFR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	20.5	20.59	20.41			
20	QPSK	5	49	20.47	20.57	20.4		22	0
20	QPSK	1	99	20.43	20.48	20.4			
20	QPSK	50	0	20.52	20.56	20.4			
20	QPSK	50	24	20.57	20.5	20.4			
20	QPSK	50	50	20.51	20.56	20.4		22	0
20	QPSK	100	0	20.51	20.53	20.39			
20	QPSK	100	50	20.5	20.5	20.39			
20	16QAM	1	49	20.52	20.53	20.38		22	0
20	16QAM	1	99	20.55	20.56	20.39			
20	16QAM	50	0	20.47	20.57	20.4			
20	16QAM	50	24	20.48	20.57	20.38		22	0
20	16QAM	50	50	20.46	20.56	20.42			
20	16QAM	100	0	20.52	20.53	20.44			
20	16QAM	1	0	20.53	20.47	20.37			
20	16QAM	1	49	20.51	20.57	20.42		22	0
20	16QAM	1	99	20.51	20.55	20.34			
20	16QAM	50	0	19.48	19.52	19.42			
20	16QAM	50	24	19.56	19.57	19.36		21	1
20	16QAM	50	50	19.54	19.53	19.46			
20	16QAM	100	0	19.49	19.53	19.36			
20	256QAM	1	49	17.46	17.50	17.41		19	3
20	256QAM	1	99	17.49	17.59	17.39			
20	256QAM	50	0	17.45	17.52	17.37			
20	256QAM	50	24	17.45	17.52	17.48		19	3
20	256QAM	50	50	17.57	17.52	17.45			
20	256QAM	100	0	17.50	17.52	17.38			
Channel									
Frequency (MHz)									
15	QPSK	1	0	18.57	18.60	18.55		Turn-up time (sec)	MFR (dB)
15	QPSK	1	49	20.43	20.48	20.34			
15	QPSK	1	99	20.43	20.49	20.34		22	0
15	QPSK	1	74	20.33	20.39	20.36			
15	QPSK	36	0	20.42	20.46	20.31			
15	QPSK	36	49	20.49	20.49	20.36		22	0
15	QPSK	36	99	20.46	20.52	20.29			
15	QPSK	75	0	20.47	20.50	20.25			
15	QPSK	75	49	20.48	20.56	20.32			
15	16QAM	1	37	20.47	20.44	20.28		22	0
15	16QAM	1	74	20.47	20.56	20.32			
15	16QAM	36	0	20.43	20.51	20.33			
15	16QAM	36	20	20.42	20.55	20.38		22	0
15	16QAM	75	0	20.47	20.53	20.36			
15	16QAM	75	0	20.44	20.49	20.39			
15	16QAM	1	0	20.43	20.37	20.30			
15	16QAM	1	49	20.47	20.52	20.35		22	0
15	16QAM	1	74	20.41	20.45	20.37			
15	16QAM	36	0	19.41	19.49	19.31			
15	16QAM	36	20	19.54	19.55	19.32			
15	16QAM	36	36	19.54	19.52	19.34		21	1
15	16QAM	75	0	19.47	19.59	19.26			
15	256QAM	1	37	17.43	17.48	17.36			
15	256QAM	1	37	17.39	17.56	17.29		19	3
15	256QAM	1	74	17.38	17.57	17.29			
15	256QAM	36	0	17.47	17.47	17.31			
15	256QAM	36	20	17.51	17.41	17.63		19	3
15	256QAM	36	39	17.57	17.41	17.63			
15	256QAM	75	0	17.50	17.58	17.38			
Channel									
Frequency (MHz)									
10	QPSK	1	0	20.41	20.46	20.36			
10	QPSK	1	25	20.48	20.42	20.43		22	0
10	QPSK	1	49	20.41	20.41	20.32			
10	QPSK	1	74	20.41	20.41	20.36			
10	QPSK	25	0	20.46	20.52	20.33			
10	QPSK	25	12	20.53	20.46	20.32		22	0
10	QPSK	25	20	20.47	20.45	20.33			
10	QPSK	25	25	20.47	20.45	20.33			
10	16QAM	1	0	20.44	20.44	20.31			
10	16QAM	1	20	20.44	20.48	20.33		22	0
10	16QAM	25	0	20.42	20.54	20.33			
10	16QAM	25	12	20.41	20.48	20.34		22	0
10	16QAM	25	12	20.42	20.48	20.37			
10	16QAM	50	0	20.47	20.45	20.34			
10	16QAM	1	0	20.44	20.35	20.30			
10	16QAM	1	49	20.39	20.45	20.29		22	0
10	16QAM	1	49	20.39	20.45	20.29			
10	16QAM	25	0	19.41	19.49	19.39			
10	16QAM	25	12	19.54	19.53	19.33		21	1
10	16QAM	25	25	19.41	19.44	19.36			
10	16QAM	50	0	19.46	19.49	19.28			
10	256QAM	1	37	17.47	17.48	17.36			
10	256QAM	1	25	17.40	17.54	17.33		19	3
10	256QAM	1	49	17.43	17.52	17.36			
10	256QAM	1	74	17.54	17.51	17.39			
10	256QAM	25	12	17.48	17.58	17.64		19	3
10	256QAM	25	25	17.53	17.50	17.54			
10	256QAM	50	0	17.57	17.57	17.61			
Channel									
Frequency (MHz)									
5	QPSK	1	0	20.41	20.46	20.36			
5	QPSK	1	12	20.44	20.45	20.41		22	0
5	QPSK	1	24	20.41	20.41	20.36			
5	QPSK	12	0	20.46	20.52	20.33			
5	QPSK	12	7	20.52	20.39	20.33		22	0
5	QPSK	12	13	20.45	20.54	20.37			
5	QPSK	12	20	20.43	20.47	20.36			
5	16QAM	1	0	20.40	20.47	20.31			
5	16QAM	1	12	20.43	20.48	20.31		22	0
5	16QAM	1	12	20.45	20.45	20.32			
5	16QAM	12	0	20.44	20.48	20.38			
5	16QAM	12	7	20.40	20.48	20.28		22	0
5	16QAM	12	13	20.42	20.52	20.34			
5	16QAM	25	0	20.46	20.39	20.33			
5	16QAM	1	0	20.47	20.41	20.26		22	0
5	16QAM	1	12	20.42	20.51	20.32			
5	16QAM	1	24	20.39	20.43	20.26			
5	16QAM	12	0	19.36	19.31	19.40			
5	16QAM	12	13	19.45	19.39	19.36		21	1
5	16QAM	25	0	19.41	19.41	19.30			
5	256QAM	1	24	17.45	17.48	17.34			
5	256QAM	1	12	17.40	17.49	17.38		19	3
5	256QAM	1	24	17.40	17.54	17.35			
5	256QAM	12	0	17.59	17.48	17.68			
5	256QAM	12	7	17.40	17.56	17.69		19	3
5	256QAM	12	13	17.52	17.50	17.62			
5	256QAM	25	0	17.57	17.62	17.66			
Channel									
Frequency (MHz)									
3	QPSK	1	0	20.41	20.57	20.33			
3	QPSK	1	8	20.41	20.51	20.44		22	0
3	QPSK	1	14	20.36	20.39	20.35			
3	QPSK	1	24	20.42	20.46	20.33			
3	QPSK	8	4	20.50	20.44	20.27		22	0
3	QPSK	8	7	20.40	20.53	20.35			
3	QPSK	8	24	20.43	20.41	20.35			
3	16QAM	1	0	20.40	20.53	20.33			
3	16QAM	1	8	20.45	20.41	20.28		22	0
3	16QAM	8	4	20.48	20.48	20.29			
3	16QAM	8	0	20.44	20.46	20.38			
3	16QAM	8	4	20.38	20.52	20.27		22	0
3	16QAM	8	7	20.37	20.46	20.39			
3	16QAM	16	0	20.41	20.42	20.39			
3	16QAM	1	0	20.46	20.41	20.33		22	0
3	16QAM	1	8	20.48	20.47	20.30			
3	16QAM	1	14	20.39	20.52	20.26			
3	16QAM	8	7	19.45	19.45	19.31			
3	16QAM	8	7	19.49	19.40	19.25		21	1
3	16QAM	8	7	19.39	19.41	19.36			
3	16QAM	16	0	17.40	17.49	17.33			
3	256QAM	1	0	17.39	17.48	17.34			
3	256QAM	8	4	17.40	17.51	17.38		19	3
3	256QAM	8	7	17.47	17.49	17.63			
3	256QAM	8	7	17.62	17.52	17.63			
3	256QAM	8	7	17.37	17.60	17.64		19	3
3	256QAM	12	0	17.47	17.41	17.69			
3	256QAM	15	0	17.53	17.63	17.61			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	20.45	20.55	20.29			
1.4	QPSK	1	3	20.41	20.50	20.36		22	0
1.4	QPSK	1	3	20.33	20.49	20.34			
1.4	QPSK	3	0	20.46	20.47	20.30			
1.4	QPSK	3	1	20.43	20.40	20.32		22	0
1.4	QPSK	3	1	20.44	20.39	20.48			
1.4	QPSK	3	1	20.37	20.51	20.32			
1.4	QPSK	3	3	20.46	20.44	20.34			
1.4	QPSK	3	3	20.44	20.48	20.34		22	0
1.4	QPSK	3	3	20.45	20.45	20.34			
1.4	QPSK	3	3	20.40	20.44	20.34			
1.4	QPSK	3	3	20.45	20.45	20.34		22	0
1.4	QPSK	3	3	20.40	20.43	20.32			
1.4	QPSK	3	3	20.43	20.48	20.32			
1.4	QPSK	3	3	20.44	20.48	20.34		22	0
1.4	QPSK	3	3	20.45	20.45	20.34			
1.4	QPSK	3	3	20.40	20.43	20.32			
1.4	QPSK	3	3	20.43	20.48	20.32		22	0
1.4	QPSK	3	3	20.44	20.48	20.34			
1.4	QPSK	3	3	20.45	20.45	20.34			
1.									



Band 4_Ant 2									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch./Fires	Power High Ch./Fires	Power High Ch./Fires	Turn-up time (sec)	MPP (dB)	
Channel									
200505 1712.5 1712.5 1745									
20	QPSK	1	0	22.08	22.10	22.31			
20	QPSK	1	49	21.98	22.01	22.14	23	0	
20	QPSK	1	99	21.91	22.01	22.03			
20	QPSK	50	0	21.99	22.12	22.17			
20	QPSK	24	21.99	21.97	22.15	22.15			
20	QPSK	50	50	22	21.97	22.15			
20	QPSK	100	0	21.91	21.92	22.12			
20	16QAM	1	0	21.92	21.98	22.12			
20	16QAM	1	49	22	21.9	22.19	23	0	
20	16QAM	1	99	21.97	21.99	22.2			
20	16QAM	50	0	21.99	22.02	22.15			
20	16QAM	50	24	22.05	22.12	22.11			
20	16QAM	50	50	22.05	22.15	22.25	23	0	
20	16QAM	100	0	21.92	22.12	22.21			
20	16QAM	1	0	22.19	22.17	22.9			
20	16QAM	1	49	22.2	22.19	22.21			
20	16QAM	1	99	22.25	22.19	22.22			
20	16QAM	50	0	22.02	21.96	21.13			
20	16QAM	50	24	21.04	21.98	21.2			
20	16QAM	50	50	21.12	21.15	21.2	22	1	
20	16QAM	100	0	21.04	21.09	21.07			
20	256QAM	1	0	19.02	19.05	19.05			
20	256QAM	1	49	19.21	19.15	19.15	20	3	
20	256QAM	1	99	19.97	19.11	19.09			
20	256QAM	50	0	19.06	19.06	19.25			
20	256QAM	50	24	19.04	19.07	19.03			
20	256QAM	50	50	18.83	19.01	19.05	20	3	
20	256QAM	100	0	19.03	19.03	19.27			
Channel									
200505 1717.5 1717.5 1747.5									
15	QPSK	1	0	22.01	22.09	22.22			
15	QPSK	1	37	21.9	21.88	22.17	23	0	
15	QPSK	1	74	21.89	21.91	22.03			
15	QPSK	36	0	21.94	22.03	22.06			
15	QPSK	36	39	21.87	21.86	22.05	23	0	
15	QPSK	36	39	21.93	21.95	22.08			
15	16QAM	75	0	21.89	21.9	22.05			
15	16QAM	75	0	21.81	21.8	22.06			
15	16QAM	1	37	21.97	21.84	22.07	23	0	
15	16QAM	36	74	21.96	21.9	22.05			
15	16QAM	36	74	21.9	21.13	22.08			
15	16QAM	36	20	21.98	22.09	22.03	23	0	
15	16QAM	75	0	21.94	22.05	22.16			
15	16QAM	1	0	22.11	22.06	22.19			
15	16QAM	1	37	22.05	22.16	22.23	23	0	
15	16QAM	1	74	22.22	22.15	22.14			
15	16QAM	36	0	22.02	21.13	21.09			
15	16QAM	36	39	21.98	22.03	22.04	22	1	
15	16QAM	36	39	21.98	22.05	22.13			
15	16QAM	75	0	21.92	22.02	22.13			
15	16QAM	75	0	21.82	22.02	22.13			
15	256QAM	1	37	19.15	19.09	19.11	20	3	
15	256QAM	1	74	18.92	19.04	18.99			
15	256QAM	50	0	18.87	18.96	18.98			
15	256QAM	50	39	19.02	19.01	18.92	20	3	
15	256QAM	50	39	18.93	18.92	18.92			
15	256QAM	75	0	18.96	18.96	19.15			
Channel									
200505 2017.5 2017.5 2050.5									
10	QPSK	1	0	22.02	22.03	22.22			
10	QPSK	1	25	21.89	21.88	22.17	23	0	
10	QPSK	1	49	21.84	21.91	22.03			
10	QPSK	1	74	21.89	21.91	22.03			
10	QPSK	25	0	21.94	22.03	22.06			
10	QPSK	25	12	21.94	21.93	22.06			
10	QPSK	25	25	21.96	21.88	22.06	23	0	
10	QPSK	25	25	21.96	21.88	22.06			
10	16QAM	1	0	21.98	21.77	22.04			
10	16QAM	1	25	21.89	21.82	22.09	23	0	
10	16QAM	1	49	21.87	21.97	22.1			
10	16QAM	25	0	21.9	22.23	22.13			
10	16QAM	25	12	22	22.04	22.04	23	0	
10	16QAM	25	12	22.03	22.08	22.17			
10	16QAM	25	25	21.98	22.05	22.09			
10	16QAM	1	0	22.07	22.06	22.22			
10	16QAM	1	25	22.14	22	22.22	23	0	
10	16QAM	1	49	22.13	22.09	22.11			
10	16QAM	25	0	22.03	21.13	21.1			
10	16QAM	25	12	22.03	22.08	22.17			
10	16QAM	25	25	21.98	21.05	21.11	22	1	
10	16QAM	50	0	22.04	21	21.05			
10	256QAM	1	25	19.38	19.17	19.22			
10	256QAM	1	25	19.12	19.12	19.16	20	3	
10	256QAM	1	49	18.93	19.02	18.97			
10	256QAM	25	12	18.92	18.93	18.93	20	3	
10	256QAM	25	25	18.76	18.89	18.93			
10	256QAM	50	0	19.04	19.03	19.21			
Channel									
199975 1712.5 1712.5 1745.5									
5	QPSK	1	0	22.03	22.03	22.21			
5	QPSK	1	14	21.91	21.83	22.11	23	0	
5	QPSK	1	24	21.79	21.92	22.07			
5	QPSK	12	0	21.81	22.1	22.15			
5	QPSK	12	7	21.92	21.85	22.13			
5	QPSK	12	13	21.89	21.87	22.13			
5	QPSK	12	13	21.86	21.8	22.02			
5	16QAM	1	0	21.98	21.79	22			
5	16QAM	1	12	21.93	21.8	22.13	23	0	
5	16QAM	1	12	21.92	21.87	22.1			
5	16QAM	12	0	21.93	22.23	22.05			
5	16QAM	12	7	21.98	22	22.04	23	0	
5	16QAM	12	13	22	22	22.22			
5	16QAM	25	0	21.91	22.1	22.1			
5	16QAM	25	0	22.12	22.05	22.24	23	0	
5	16QAM	25	19	22.08	22.18	22.09			
5	16QAM	1	24	22.18	22.12	22.11			
5	16QAM	12	0	22.02	21.08	21.05			
5	16QAM	12	7	22.01	21.03	21.18	22	1	
5	16QAM	12	13	21.94	21.19	21.17			
5	16QAM	25	0	22.09	21.14	20.86			
5	256QAM	1	25	18.95	19.19	19.30			
5	256QAM	1	12	19.19	19.19	19.04	20	3	
5	256QAM	1	24	18.98	19.08	19.07			
5	256QAM	12	0	18.93	19.04	18.94			
5	256QAM	12	7	19.09	18.93	19.09	20	3	
5	256QAM	12	13	18.78	18.99	19.01			
5	256QAM	25	0	18.87	19.06	19.19			
Channel									
199975 2017.5 2017.5 2050.5									
3	QPSK	1	0	22.03	22.03	22.21			
3	QPSK	1	8	21.85	21.89	22.14	23	0	
3	QPSK	1	14	21.86	21.91	22.06			
3	QPSK	8	0	21.88	22	22.05			
3	QPSK	8	4	21.93	21.95	22.06			
3	QPSK	8	7	21.92	21.85	22.07			
3	QPSK	16	0	21.85	21.87	22.05			
3	16QAM	1	0	21.84	21.76	22			
3	16QAM	1	8	21.94	21.88	22.13	23	0	
3	16QAM	1	14	21.93	21.89	22.13			
3	16QAM	8	0	21.97	22.19	22.04			
3	16QAM	8	4	21.97	22.04	22.06	23	0	
3	16QAM	8	7	22.03	22.1	22.16			
3	16QAM	16	0	22.14	22.1	22.14			
3	16QAM	1	0	22.13	22.05	22.2			
3	16QAM	1	8	22.16	22.15	22.27	23	0	
3	16QAM	1	14	22.14	22.07	22.15			
3	16QAM	8	0	22.04	20.96	21.15	22	1	
3	16QAM	8	7	21	21.04	21.14			
3	16QAM	16	0	21.02	21.03	21.03			
3	256QAM	1	0	18.98	19.03	19.07			
3	256QAM	1	8	19.17	19.08	19.13	20	3	
3	256QAM	1	14	18.97	19.07	19.14			
3	256QAM	8	0	18.94	19.05	19.21			
3	256QAM	8	4	18.95	18.87	18.96	20	3	
3	256QAM	8	7	18.91	18.99	19.09			
3	256QAM	16	0	18.99	19.03	19.22			
Channel									
199975 1717.5 1717.5 1745.5									
1.4	QPSK	1	0	22.02	22.14	22.26			
1.4	QPSK	1	3	21.9	21.9	22.16	23	0	
1.4	QPSK	1	5	21.89	21.99	22.02			
1.4	QPSK	3	0	21.97	22.06	22.09			
1.4	QPSK	3	1	21.93	21.99	22.12			
1.4	QPSK	3	3	21.85	21.88	22.11	23	0	
1.4	QPSK	3	5	21.86	21.88	22.06			
1.4	QPSK	3	7	21.92	21.9	22.09			
1.4	QPSK	3	9	21.98	21.93	22.15			
1.4	QPSK	3	1	21.97	22.02	22.05			
1.4	QPSK	3	3	21.95	22.08	22.11			
1.4	QPSK	3	5	21.96	22.19	22.08			
1.4	QPSK	3	7	22.02	22.14	22.19			
1.4	QPSK	3	9	22.08	22.14	22.19			
1.4	QPSK	3	1	22.15	22.12	22.22	23	0	
1.4	QPSK	3	3	22.16	22.15	22.27			
1.4	QPSK	3	5	22.02	21.13	22.23			
1.4	QPSK	3	7	22.07	21.13	22.27			
1.4	QPSK	3	9	22.12	21.15	22.2			
1.4	QPSK	3	1	22.07	21.01	21.09	22	1	
1.4	QPSK	3	3						



Band 7_Ant 0												
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freq	Power Mod Ch / Freq	Power Mod Ch / Freq	Turn-up (min)	MPR (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.02	22.14	22.05	23	0				
20	QPSK	1	49	21.74	21.89	21.82						
20	QPSK	1	99	21.81	22.08	22.00						
20	QPSK	50	0	21.15	21.20	21.13	22	1				
20	QPSK	50	24	20.84	21.00	20.97						
20	QPSK	50	50	20.98	21.10	21.03						
20	QPSK	100	0	20.98	21.14	20.92	22	1				
20	QPSK	100	0	21.19	21.30	21.17						
20	16QAM	1	49	21.07	21.43	21.12						
20	16QAM	1	99	20.89	21.22	21.16	21	2				
20	16QAM	50	24	19.87	20.10	19.95						
20	16QAM	50	50	19.84	20.05	19.90						
20	16QAM	100	0	19.85	20.05	19.90	21	2				
20	16QAM	100	0	19.77	19.89	19.86						
20	64QAM	1	49	19.61	19.94	19.92						
20	64QAM	1	99	19.91	20.30	20.09	21	2				
20	64QAM	50	0	19.77	19.12	18.99						
20	64QAM	50	24	18.82	19.12	18.95						
20	64QAM	50	50	18.86	19.10	18.99	20	3				
20	64QAM	100	0	18.78	18.98	18.94						
20	256QAM	1	49	17.11	17.20	17.04						
20	256QAM	1	99	17.03	17.19	17.07	18	5				
20	256QAM	50	24	16.85	16.88	16.89						
20	256QAM	50	24	16.93	17.05	16.96						
20	256QAM	50	50	16.91	17.09	16.99	18	5				
20	256QAM	50	50	16.89	17.04	16.93						
20	256QAM	100	0	16.90	17.00	16.90						
20	256QAM	100	0	16.93	17.04	16.88						
20	256QAM	100	0	16.93	17.04	16.88						
Channel												
Frequency (MHz)												
15	QPSK	1	0	21.82	21.88	21.72	23	0				
15	QPSK	1	37	21.60	21.76	21.61						
15	QPSK	1	74	21.59	21.89	21.87						
15	QPSK	36	0	20.47	20.61	20.54	22	1				
15	QPSK	36	39	20.48	20.61	20.53						
15	QPSK	36	39	20.67	20.98	20.97						
15	QPSK	75	0	20.69	20.83	20.78	22	1				
15	16QAM	1	20.61	20.85	21.1							
15	16QAM	1	37	20.54	20.73	20.63						
15	16QAM	1	74	20.54	20.81	21.08	22	1				
15	16QAM	36	39	19.49	19.91	19.75						
15	16QAM	36	20	19.42	19.82	19.81						
15	16QAM	75	0	19.58	19.84	19.76	21	2				
15	64QAM	1	0	19.71	20.1	19.74						
15	64QAM	1	37	19.72	20.01	19.84						
15	64QAM	1	74	19.97	19.95	20.09	20	3				
15	64QAM	36	0	18.47	18.88	18.83						
15	64QAM	36	39	18.62	18.84	18.84						
15	64QAM	36	39	18.71	18.91	18.95	18	5				
15	64QAM	75	0	18.64	18.6	18.86						
15	256QAM	1	37	18.62	18.64	18.66						
15	256QAM	1	74	18.94	17.05	16.93	18	5				
15	256QAM	1	74	18.73	18.83	18.69						
15	256QAM	36	39	18.78	18.91	18.95						
15	256QAM	36	20	18.78	18.94	18.78	18	5				
15	256QAM	75	0	18.69	18.84	18.78						
15	256QAM	75	0	18.71	18.71	18.68						
Channel												
Frequency (MHz)												
10	QPSK	1	0	21.42	21.51	21.47	23	0				
10	QPSK	1	25	21.31	21.71	21.72						
10	QPSK	1	49	21.36	21.77	21.75						
10	QPSK	25	0	20.43	20.74	20.66	22	1				
10	QPSK	25	12	20.4	20.9	20.74						
10	QPSK	25	25	20.47	20.82	20.7						
10	QPSK	50	0	20.43	20.73	20.65	22	1				
10	16QAM	1	0	20.31	20.69	20.61						
10	16QAM	1	25	20.58	21.14	20.86						
10	16QAM	25	0	19.26	19.79	19.78	21	2				
10	16QAM	25	12	19.25	19.83	19.87						
10	16QAM	25	25	19.39	19.81	19.86						
10	16QAM	50	0	19.5	19.89	19.73	21	2				
10	64QAM	1	0	19.14	19.87	19.78						
10	64QAM	1	25	19.34	19.89	19.85						
10	64QAM	1	49	19.69	19.94	19.83	20	3				
10	64QAM	25	0	18.48	18.73	18.77						
10	64QAM	25	12	18.33	18.81	18.86						
10	64QAM	25	25	18.44	18.98	18.9	18	5				
10	64QAM	50	0	18.58	18.83	18.92						
10	256QAM	1	0	17.05	17.07	16.90						
10	256QAM	1	25	16.97	17.05	17.00	18	5				
10	256QAM	1	49	16.76	16.81	16.74						
10	256QAM	25	0	16.82	16.87	16.90						
10	256QAM	25	12	16.77	16.98	16.86	18	5				
10	256QAM	25	25	16.77	16.82	16.82						
10	256QAM	50	0	16.81	16.92	16.83						
Channel												
Frequency (MHz)												
5	QPSK	1	0	21.4	21.51	21.48	23	0				
5	QPSK	1	12	21.38	21.71	21.72						
5	QPSK	1	24	21.33	21.84	21.87						
5	QPSK	12	0	20.43	20.74	20.66	22	1				
5	QPSK	12	7	20.41	20.57	20.82						
5	QPSK	12	13	20.52	20.8	20.78						
5	QPSK	25	0	20.38	20.73	20.65	22	1				
5	16QAM	1	0	20.4	21.2	21.1						
5	16QAM	1	12	20.48	21.26	20.85						
5	16QAM	1	24	20.48	20.69	21.18	21	2				
5	16QAM	12	0	19.45	19.71	19.84						
5	16QAM	12	7	19.38	19.61	19.92						
5	16QAM	12	13	19.36	19.69	19.77	20	3				
5	64QAM	1	0	18.41	18.89	18.8						
5	64QAM	12	13	18.39	18.69	18.85						
5	64QAM	25	0	18.42	18.74	18.94	18	5				
5	256QAM	1	0	17.02	17.02	16.92						
5	256QAM	1	12	16.98	17.08	16.92						
5	256QAM	1	24	16.72	16.85	16.83	18	5				
5	256QAM	12	0	16.79	16.95	16.81						
5	256QAM	12	7	16.84	16.85	16.84						
5	256QAM	12	13	16.79	16.85	16.81	18	5				
5	256QAM	25	0	16.79	16.86	16.76						
5	256QAM	25	0	16.79	16.86	16.76						

Band 7_Ant 1									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Mod Ch / Freq	Power Mod Ch / Freq	Power Mod Ch / Freq	Turn-up (min)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	15.88	15.98	15.94	17.5	0	
20	QPSK	1	49	15.87	15.93	15.97			
20	QPSK	1	99	15.94	15.88	16.05			
20	QPSK	50	0	15.90	15.97	15.93	17.5	0	
20	QPSK	50	24	15.98	15.95	15.99			
20	QPSK	50	50	15.95	16.01	16.02			
20	QPSK	100	0	15.89	15.96	15.92	17.5	0	
20	16QAM	1	0	15.77	15.98	15.97			
20	16QAM	1	49	15.75	15.94	15.99			
20	16QAM	1	99	15.79	16.03	15.89	17.5	0	
20	16QAM	50	0	15.77	16.03	15.89			
20	16QAM	50	24	15.77	15.97	15.93	17.5	0	
20	16QAM	50	50	15.77	15.93	15.97			
20	16QAM	100	0	15.89	15.97	15.93			
20	25QAM	1	0	15.94	16.05	15.84	17.5	0	
20	25QAM	1	49	15.83	16.01	15.96			
20	25QAM	1	99	15.79	15.98	16.02			
20	25QAM	50	0	15.94	16.05	15.84	17.5	0	
20	25QAM	50	24	15.76	16.05	15.94			
20	25QAM	50	50	15.87	16.07	15.73			
20	25QAM	100	0	15.89	15.97	15.93	17.5	0	
20	25QAM	100	24	15.79	15.98	16.02			
20	25QAM	100	50	15.75	15.87	15.78			
Channel									
Frequency (MHz)									
16	QPSK	1	0	16.74	16.00	15.98	17.5	0	
16	QPSK	1	37	16.82	16.01	15.83			
16	QPSK	1	74	16.81	16.01	15.83			
16	QPSK	36	0	16.82	16.01	15.97	17.5	0	
16	QPSK	36	25	16.91	16.00	15.88			
16	QPSK	36	50	16.90	16.01	15.88			
16	16QAM	1	0	16.79	15.92	15.98	17.5	0	
16	16QAM	1	37	16.88	15.97	15.85			
16	16QAM	1	74	16.86	16.00	15.81			
16	16QAM	1	74	16.86	16.00	15.81	17.5	0	
16	16QAM	36	0	16.84	16.00	15.74			
16	16QAM	36	25	16.73	15.95	15.78			
16	16QAM	36	50	16.72	15.92	15.80	17.5	0	
16	16QAM	75	0	16.76	15.97	15.92			
16	16QAM	75	37	16.79	15.98	15.94			
16	16QAM	1	37	16.73	15.98	16.01	17.5	0	
16	16QAM	1	74	16.72	15.99	16.01			
16	16QAM	1	74	16.73	15.99	16.01			
16	16QAM	36	20	16.87	16.04	15.76	17.5	0	
16	16QAM	36	36	16.96	16.03	15.86			
16	16QAM	36	50	16.96	16.03	15.86			
16	25QAM	1	0	16.84	15.95	15.87	17.5	0	
16	25QAM	1	37	16.72	15.96	15.78			
16	25QAM	1	74	16.73	15.96	15.75			
16	25QAM	36	0	16.84	15.90	15.76	17.5	0	
16	25QAM	36	25	16.83	15.85	15.77			
16	25QAM	36	50	16.83	15.85	15.77			
16	25QAM	75	0	16.73	15.86	15.81	17.5	0	
16	25QAM	75	37	16.73	15.86	15.81			
16	25QAM	75	74	16.66	15.83	15.71			
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.89	15.97	15.97	17.5	0	
20	QPSK	1	20	16.89	15.94	15.82			
20	QPSK	1	40	16.80	16.01	15.83			
20	QPSK	40	0	16.83	15.99	15.93	17.5	0	
20	QPSK	40	12	16.82	15.98	15.93			
20	QPSK	40	24	16.84	15.98	15.93			
20	QPSK	80	0	16.78	15.97	15.80	17.5	0	
20	QPSK	80	40	16.70	16.01	15.79			
20	QPSK	80	80	16.70	16.01	15.79			
20	16QAM	1	0	16.70	16.01	15.79	17.5	0	
20	16QAM	1	40	16.66	15.99	15.77			
20	16QAM	1	80	16.66	15.99	15.77			
20	16QAM	40	0	16.66	15.92	15.85	17.5	0	
20	16QAM	40	20	16.70	15.90	15.77			
20	16QAM	40	40	16.66	15.92	15.85			
20	16QAM	80	0	16.76	15.91	15.88	17.5	0	
20	16QAM	80	40	16.66	15.93	15.82			
20	16QAM	80	80	16.66	15.93	15.82			
20	16QAM	1	20	16.67	16.02	15.85	17.5	0	
20	16QAM	1	40	16.68	15.93	15.86			
20	16QAM	1	80	16.66	15.93	15.86			
20	25QAM	1	0	16.88	16.01	15.84	17.5	0	
20	25QAM	1	20	16.79	15.98	15.75			
20	25QAM	1	40	16.79	15.98	15.75			
20	25QAM	40	0	16.85	15.95	15.76	17.5	0	
20	25QAM	40	12	16.75	15.83	15.72			
20	25QAM	40	24	16.75	15.83	15.72			
20	25QAM	80	0	16.67	15.94	15.68	17.5	0	
20	25QAM	80	40	16.67	15.94	15.68			
20	25QAM	80	80	16.67	15.94	15.68			
Channel									
Frequency (MHz)									
5	QPSK	1	0	16.78	16.04	15.84	17.5	0	
5	QPSK	1	24	16.83	15.96	15.84			
5	QPSK	1	48	16.80	15.77	16.01			
5	QPSK	12	0	16.87	16.02	15.81	17.5	0	
5	QPSK	12	7	16.84	15.95	15.80			
5	QPSK	12	14	16.86	15.91	15.91			
5	QPSK	12	21	16.79	15.98	15.82	17.5	0	
5	16QAM	1	0	16.65	16.00	15.79			
5	16QAM	1	12	16.64	16.01	15.77			
5	16QAM	1	24	16.79	15.92	15.83	17.5	0	
5	16QAM	12	0	16.74	15.93	15.81			
5	16QAM	12	7	16.70	15.90	15.80			
5	16QAM	12	14	16.70	15.96	15.81	17.5	0	
5	16QAM	12	21	16.68	15.93	15.82			
5	16QAM	25	0	16.82	15.93	15.82			
5	16QAM	25	7	16.80	15.92	15.82	17.5	0	
5	16QAM	25	14	16.79	15.92	15.85			
5	16QAM	25	21	16.71	16.01	15.82			
5	16QAM	25	28	16.81	15.99	15.80	17.5	0	
5	16QAM	12	7	16.72	15.99	15.80			
5	16QAM	12	14	16.03	15.94	15.85			
5	25QAM	1	0	16.89	15.96	15.86	17.5	0	
5	25QAM	1	12	16.87	15.90	15.75			
5	25QAM	1	24	16.81	15.83	15.63			
5	25QAM	12	0	16.82	15.84	15.75	17.5	0	
5	25QAM	12	7	16.75	15.85	15.81			
5	25QAM	12	14	16.71	15.84	15.69			



Band 12_Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power High Ch / Freq.	Power High Ch / Freq.	Turn-up (dB)	MPE (dB)						
Channel														
Frequency (MHz)														
10	QPSK	1	0	24.67	24.77	24.66	25.7	0						
10	QPSK	1	25	24.62	24.43	24.63								
10	QPSK	1	49	24.66	24.65	24.45								
10	QPSK	25	0	23.66	23.84	23.74								
10	QPSK	25	12	23.66	23.63	23.71								
10	QPSK	25	25	23.61	23.69	23.69	24.7	1						
10	QPSK	50	0	23.74	23.82	23.64								
10	16QAM	1	0	24.04	23.79	24.05								
10	16QAM	1	25	24.10	23.69	24.07								
10	16QAM	1	49	23.83	24.02	24.20								
10	16QAM	25	0	22.45	22.97	22.61	23.7	2						
10	16QAM	25	12	22.80	22.71	22.59								
10	16QAM	25	25	22.83	22.81	22.86								
10	16QAM	50	0	22.70	22.83	22.74								
10	16QAM	1	0	22.84	22.72	22.78								
10	8QAM	1	25	22.92	22.70	22.82	23.7	2						
10	8QAM	1	49	22.72	22.69	22.80								
10	8QAM	25	0	21.53	21.68	21.70								
10	8QAM	25	12	21.57	21.74	21.85								
10	8QAM	25	25	21.62	21.70	21.71								
10	8QAM	50	0	21.68	21.81	21.69	22.7	3						
10	8QAM	50	0	20.10	20.22	20.12								
10	256QAM	1	25	20.21	20.35	20.26								
10	256QAM	1	49	19.96	20.17	20.51								
10	256QAM	25	0	19.95	20.16	19.93								
Channel														
Frequency (MHz)														
5	QPSK	1	0	24.45	24.60	24.50	25.7	0						
5	QPSK	1	12	24.53	24.52	24.53								
5	QPSK	1	24	24.61	24.60	24.57								
5	QPSK	12	0	23.43	23.65	23.59								
5	QPSK	12	7	23.43	23.63	23.64								
5	QPSK	12	13	23.63	23.59	23.53	24.7	1						
5	QPSK	25	0	23.67	23.69	23.66								
5	16QAM	1	0	23.84	23.74	24.00								
5	16QAM	1	12	23.97	23.84	23.89								
5	16QAM	1	24	23.96	23.92	23.99								
5	16QAM	12	0	22.35	22.96	22.58	23.7	2						
5	16QAM	12	7	22.50	22.58	22.53								
5	16QAM	12	13	22.49	22.49	22.48								
5	16QAM	25	0	22.47	22.52	22.68								
5	8QAM	1	0	22.67	22.67	22.62								
5	8QAM	1	24	22.60	22.54	22.64	22.7	3						
5	8QAM	12	0	21.62	21.62	21.50								
5	8QAM	12	7	21.62	21.65	21.61								
5	8QAM	25	0	20.96	20.95	20.95								
5	256QAM	1	12	20.13	20.24	20.08								
5	256QAM	1	24	19.95	20.10	19.95	20.7	5						
5	256QAM	12	0	19.96	19.96	19.97								
5	256QAM	12	7	19.96	19.99	19.99								
5	256QAM	12	13	19.96	19.91	19.91								
5	256QAM	25	0	19.96	19.98	19.99								
Channel														
Frequency (MHz)														
3	QPSK	1	0	24.46	24.64	24.51	25.7	0						
3	QPSK	1	8	24.65	24.51	24.67								
3	QPSK	1	14	24.56	24.60	24.57								
3	QPSK	3	0	23.68	23.91	23.61								
3	QPSK	3	4	23.49	23.53	23.62								
3	QPSK	8	7	23.61	23.44	23.44	24.7	1						
3	QPSK	8	7	23.63	23.77	23.66								
3	16QAM	1	0	23.97	23.63	24.00								
3	16QAM	1	8	23.97	23.84	24.04								
3	16QAM	8	4	22.65	22.62	22.67								
3	16QAM	8	7	22.44	22.48	22.58	23.7	2						
3	16QAM	15	0	22.55	22.63	22.65								
3	8QAM	1	0	22.67	22.63	22.67								
3	8QAM	1	14	22.60	22.60	22.72								
3	8QAM	8	0	21.44	21.55	21.61								
3	8QAM	8	4	21.50	21.62	21.67	22.7	3						
3	8QAM	8	7	21.53	21.55	21.69								
3	8QAM	15	0	21.53	21.51	21.57								
3	256QAM	1	0	19.98	20.14	20.03								
3	256QAM	1	8	20.12	20.14	20.16								
3	256QAM	1	14	19.97	20.12	19.96	20.7	5						
3	256QAM	8	0	20.06	20.02	19.99								
3	256QAM	8	4	19.96	19.97	19.95								
3	256QAM	8	7	19.96	19.97	19.79								
Channel														
Frequency (MHz)														
1.4	QPSK	1	0	24.44	24.64	24.57			25.7	0				
1.4	QPSK	1	3	24.47	24.54	24.53								
1.4	QPSK	1	5	24.58	24.61	24.57								
1.4	QPSK	3	0	24.44	24.53	24.40								
1.4	QPSK	3	1	24.41	24.45	24.48								
1.4	QPSK	3	3	24.53	24.48	24.43	24.7	1						
1.4	QPSK	6	0	23.58	23.76	23.60								
1.4	16QAM	1	0	23.79	23.68	23.63								
1.4	16QAM	1	3	23.93	23.80	23.98								
1.4	16QAM	1	5	23.75	23.84	24.15								
1.4	16QAM	3	0	23.68	23.62	23.89	24.7	1						
1.4	16QAM	3	3	23.63	23.72	23.63								
1.4	16QAM	3	5	23.63	23.68	24.01								
1.4	16QAM	6	0	22.48	22.52	22.61								
1.4	8QAM	1	0	22.66	22.64	22.67								
1.4	8QAM	1	3	22.73	22.68	22.71	23.7	2						
1.4	8QAM	1	5	22.56	22.64	22.68								
1.4	8QAM	3	0	22.50	22.48	22.50								
1.4	8QAM	3	1	22.62	22.60	22.61								
1.4	8QAM	3	3	22.33	22.52	22.57								
1.4	8QAM	6	0	21.52	21.56	21.53	22.7	3						
1.4	256QAM	1	0	20.01	20.12	19.99								
1.4	256QAM	1	3	20.10	20.17	20.15								
1.4	256QAM	1	5	19.99	20.11	19.96								
1.4	256QAM	3	0	19.95	20.06	19.91								
1.4	256QAM	3	1	19.96	19.98	19.97	20.7	5						
1.4	256QAM	3	3	19.92	19.99	19.91								
1.4	256QAM	6	0	19.94	19.96	19.71								
Channel														
Frequency (MHz)														
10	QPSK	1	0	24.44	24.64	24.57	25.7	0						
10	QPSK	1	8	24.65	24.51	24.67								
10	QPSK	1	14	24.56	24.60	24.57								
10	QPSK	3	0	23.67	23.87	23.77								
10	QPSK	3	4	23.49	23.53	23.62								
10	QPSK	8	7	23.61	23.44	23.44	24.7	1						
10	QPSK	8	7	23.63	23.77	23.66								
10	16QAM	1	0	23.97	23.63	24.00								
10	16QAM	1	8	23.97	23.84	24.04								
10	16QAM	8	4	22.65	22.62	22.67								
10	16QAM	8	7	22.44	22.48	22.58	23.7	2						
10	16QAM	15	0	22.55	22.63	22.65								
10	8QAM	1	0	22.67	22.63	22.67								
10	8QAM	1	14	22.60	22.60	22.72								
10	8QAM	8	0	21.44	21.55	21.61								
10	8QAM	8	4	21.50	21.62	21.67	22.7	3						
10	8QAM	8	7	21.53	21.55	21.69								
10	8QAM	15	0	21.53	21.51	21.57								
10	256QAM	1	0	19.98	20.14	20.03								
10	256QAM	1	8	20.12	20.14	20.16								
10	256QAM	1	14	19.97	20.12	19.96	20.7	5						
10	256QAM	8	0	20.06	20.02	19.99								
10	256QAM	8	4	19.96	19.97	19.95								
10	256QAM	8	7	19.96	19.97	19.79								
Channel														
Frequency (MHz)														
5	QPSK	1	0	24.46	24.64	24.51			25.7	0				
5	QPSK	1	8	24.65	24.51	24.67								
5	QPSK	1	14	24.56	24.60	24.57								
5	QPSK	3	0	23.68	23.91	23.61								
5	QPSK	3	4	23.49	23.53	23.62								
5	QPSK	8	7	23.61	23.44	23.44	24.7	1						
5	QPSK	8	7	23.63	23.77	23.66								
5	16QAM	1	0	23.97	23.63	24.00								
5	16QAM	1	8	23.97	23.84	24.04								
5	16QAM	8	4	22.65	22.62	22.67								
5	16QAM	8	7	22.44	22.48	22.58	23.7	2						
5	16QAM	15	0	22.55	22.63	22.65								
5	8QAM	1	0	22.67	22.63	22.67								
5	8QAM	1	14	22.60	22.60	22.72								
5	8QAM	8	0	21.44	21.55	21.61								
5	8QAM	8	4	21.50	21.62	21.67	22.7	3						
5	8QAM	8	7	21.53	21.55	21.69								
5	8QAM	15	0	21.53	21.51	21.57								
5	256QAM	1	0	19.98	20.14	20.03								
5	256QAM	1	8	20.12	20.14	20.16								
5	256QAM	1	14	19.97	20.12	19.96	20.7	5						
5	256QAM	8	0	20.06	20.02	19.99								
5	256QAM	8	4	19.96	19.97	19.95								
5	256QAM	8	7	19.96	19.97	19.79								
Channel														
Frequency (MHz)														
3	QPSK	1	0	24.46	24.64	24.51			25.7	0				
3	QPSK	1	8	24.65	24.51	24.67								
3	QPSK	1	14	24.56	24.60	24.57								
3	QPSK	3	0	23.67	23.87	23.77								
3	QPSK	3	4	23.49	23.53	23.62								
3	QPSK	8	7	23.61	23.44	23.44	24.7	1						
3	QPSK	8	7	23.63	23.77	23.66								
3	16QAM	1	0	23.97	23.63	24.00								
3	16QAM	1	8	23.97	23.84	24.04								
3	16QAM	8	4	22.65	22.62	22.67								
3	16QAM	8	7	22.44	22.48	22.58	23.7	2						
3	16QAM	15	0	22.55	22.63	22.65								
3	8QAM	1	0	22.67	22.63	22.67								
3	8QAM	1	14	22.60	22.60	22.72								
3	8QAM	8	0	21.44	21.55	21.								



Band 17_Ant 0											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Turn-on time (sec)	MPE (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	24.75	24.76	24.72	25.7	0			
10	QPSK	1	25	24.65	24.74	24.70					
10	QPSK	1	49	24.61	24.67	24.68					
10	QPSK	25	0	23.68	23.69	23.70					
10	QPSK	25	12	23.65	23.72	23.68	24.7	1			
10	QPSK	25	25	23.61	23.65	23.64					
10	QPSK	50	0	23.68	23.76	23.72					
10	16QAM	1	0	23.69	24.09	24.08					
10	16QAM	1	25	23.75	24.18	24.15	24.7	1			
10	16QAM	1	49	23.68	24.19	24.20					
10	16QAM	1	0	22.67	22.70	22.76					
10	16QAM	25	12	22.64	22.63	22.78	23.7	2			
10	16QAM	25	25	22.68	22.94	22.62					
10	16QAM	50	0	22.67	22.70	22.68					
10	64QAM	1	0	22.86	22.65	22.60					
10	64QAM	1	25	22.86	22.89	22.60	23.7	2			
10	64QAM	1	49	23.02	22.86	22.73					
10	64QAM	25	0	21.65	21.62	21.62					
10	64QAM	25	12	21.70	21.71	21.68					
10	64QAM	25	25	21.68	21.73	21.68	22.7	3			
10	64QAM	50	0	21.69	21.73	21.68					
10	256QAM	1	0	20.23	20.24	20.25					
10	256QAM	1	25	20.18	20.28	20.13					
10	256QAM	1	49	20.10	20.21	20.16	20.7	5			
10	256QAM	25	0	19.97	20.03	19.98					
10	256QAM	25	12	20.07	20.15	19.95					
10	256QAM	25	25	20.00	20.09	20.06					
Channel											
Frequency (MHz)											
5	QPSK	1	0	24.39	24.40	24.30	25.7	0			
5	QPSK	1	12	24.49	24.40	24.40					
5	QPSK	1	49	24.35	24.42	24.42					
5	QPSK	12	0	23.55	23.67	23.56					
5	QPSK	12	7	23.59	23.60	23.60	24.7	1			
5	QPSK	12	13	23.60	23.51	23.52					
5	QPSK	25	0	23.61	23.64	23.58					
5	16QAM	1	0	23.54	23.56	23.50					
5	16QAM	1	12	23.61	24.14	24.02	24.7	1			
5	16QAM	1	24	23.70	23.94	24.08					
5	16QAM	12	0	22.69	22.68	22.64					
5	16QAM	12	7	22.61	22.65	22.69					
5	16QAM	12	13	22.54	22.57	22.48	23.7	2			
5	16QAM	25	0	22.66	22.58	22.49					
5	64QAM	1	0	22.66	22.59	22.60					
5	64QAM	1	24	22.61	22.67	22.62					
5	64QAM	12	0	21.53	21.53	21.53	23.7	2			
5	64QAM	12	7	21.53	21.63	21.65					
5	64QAM	12	13	21.60	21.50	21.51					
5	64QAM	25	0	21.50	21.68	21.47					
5	256QAM	1	0	20.15	20.18	20.03	22.7	3			
5	256QAM	1	12	20.04	20.07	20.01					
5	256QAM	1	24	20.00	20.11	20.06					
5	256QAM	12	0	19.87	19.98	19.86					
5	256QAM	12	7	20.00	19.98	19.96	20.7	5			
5	256QAM	12	13	19.91	20.10	19.85					
5	256QAM	25	0	19.93	20.00	19.90					

Band 17_Ant 1											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq.	Power Med Ch / Freq.	Power High Ch / Freq.	Turn-on time (sec)	MPE (dB)			
Channel											
Frequency (MHz)											
10	QPSK	1	0	23.61	23.68	23.60	25	0			
10	QPSK	1	25	23.55	23.54	23.45					
10	QPSK	1	49	23.62	23.48	23.48					
10	QPSK	25	0	23.63	23.21	23.11					
10	QPSK	25	12	23.03	23.08	23.01	24.5	0.5			
10	QPSK	25	25	23.06	23.04	23.09					
10	QPSK	50	0	22.83	23.18	23.05					
10	16QAM	1	0	23.57	23.58	23.17					
10	16QAM	1	25	23.38	23.27	23.20	24.5	0.5			
10	16QAM	1	49	23.42	23.33	23.40					
10	16QAM	25	0	21.99	22.02	22.03					
10	16QAM	25	12	21.98	22.05	21.97	23.5	1.5			
10	16QAM	25	25	21.96	22.04	21.96					
10	16QAM	50	0	22.12	21.99	21.96					
10	64QAM	1	0	22.95	22.16	22.10	23.5	1.5			
10	64QAM	1	25	22.92	22.29	22.16					
10	64QAM	1	49	22.94	22.24	22.26					
10	64QAM	25	0	20.91	21.08	21.10					
10	64QAM	25	12	20.90	21.04	20.96	22.5	2.5			
10	64QAM	25	25	20.97	21.03	20.96					
10	64QAM	50	0	21.00	20.92	21.00					
10	256QAM	1	25	19.90	19.97	19.93	20.5	4.5			
10	256QAM	1	49	19.47	19.67	19.44					
10	256QAM	25	0	19.39	19.40	19.26					
10	256QAM	25	12	19.34	19.44	19.29					
10	256QAM	25	25	19.43	19.49	19.35	20.5	4.5			
10	256QAM	50	0	19.27	19.37	19.20					
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.56	23.65	23.48	25	0			
5	QPSK	1	12	23.60	23.51	23.48					
5	QPSK	12	0	23.01	23.18	23.14					
5	QPSK	12	7	23.07	23.03	23.00					
5	QPSK	12	13	23.01	23.05	23.07	24.5	0.5			
5	QPSK	25	0	22.89	23.19	23.08					
5	16QAM	1	0	23.18	23.07	23.17					
5	16QAM	1	12	23.32	23.27	23.18					
5	16QAM	1	24	23.07	23.29	23.39	24.5	0.5			
5	16QAM	12	0	22.04	22.01	22.04					
5	16QAM	12	7	21.94	22.09	21.87					
5	16QAM	12	13	21.98	21.99	21.98					
5	16QAM	25	0	22.17	22.03	21.98	23.5	1.5			
5	64QAM	1	0	22.06	22.13	22.17					
5	64QAM	1	24	22.09	22.05	21.96					
5	64QAM	12	0	22.24	22.31	22.20					
5	64QAM	12	7	20.99	21.05	20.94	22.5	2.5			
5	64QAM	12	13	20.96	21.04	20.99					
5	64QAM	25	0	20.95	20.91	20.96					
5	256QAM	1	0	19.93	19.93	19.90					
5	256QAM	1	12	19.91	19.93	19.91	20.5	4.5			
5	256QAM	1	24	19.46	19.85	19.43					
5	256QAM	12	0	19.34	19.43	19.23					
5	256QAM	12	7	19.33	19.44	19.24					
5	256QAM	12	13	19.40	19.54	19.38	20.5	4.5			
5	256QAM	25	0	19.35	19.40	19.25					
Channel											
Frequency (MHz)											
5	QPSK	1	0	23.56	23.60	23.45	25	0			
5	QPSK	1	24	23.59	23.51	23.48					
5	QPSK	12	0	23.01	23.18	23.14					
5	QPSK	12	7	23.07	23.03	23.00					
5	QPSK	12	13	23.01	23.05	23.07	24.5	0.5			
5	QPSK	25	0	22.88	23.19	23.08					
5	16QAM	1	0	23.18	23.07	23.17					
5	16QAM	1	12	23.32	23.27	23.18					
5	16QAM	1	24	23.07	23.29	23.39	24.5	0.5			
5	16QAM	12	0	22.04	22.01	22.04					
5	16QAM	12	7	21.94	22.10	21.87					
5	16QAM	12	13	21.98	21.99	21.98					
5	16QAM	25	0	22.17	22.03	21.98	23.5	1.5			
5	64QAM	1	0	22.06	22.13	22.17					
5	64QAM	1	24	22.09	22.05	21.96					
5	64QAM	12	0	22.24	22.31	22.20					
5	64QAM	12	13	20.95	21.04	20.90	22.5	2.5			
5	64QAM	25	0	20.95	20.91	20.96					



Band 66_Ant 0

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Mod	Power Mod Ch./Freq.	Power High Mod	Turn-up Time (sec)	MPR (dB)
Channel								
Frequency [MHz]	1720	1745	1770					
20	QPSK	1	0	21.81	21.86	21.73	23	0
20	QPSK	1	49	21.81	21.81	21.73		
20	QPSK	1	99	21.73	21.78	21.71	22	1
20	QPSK	1	0	20.92	20.95	20.88		
20	QPSK	50	0	20.75	20.80	20.81	22	1
20	QPSK	50	50	20.76	20.80	20.76		
20	QPSK	100	0	20.77	20.81	20.73	22	1
20	QPSK	100	0	20.88	21.21	21.13		
20	16QAM	1	49	20.97	20.99	21.02	21	2
20	16QAM	1	99	21.09	21.12	21		
20	16QAM	50	0	19.73	19.86	19.77	21	2
20	16QAM	50	24	19.63	19.86	19.83		
20	16QAM	50	50	19.77	19.91	19.81	20	3
20	16QAM	50	0	19.64	19.85	19.85		
20	64QAM	1	0	19.85	20.36	20.11	21	2
20	64QAM	1	49	19.86	20.16	20.11		
20	64QAM	1	99	19.78	19.83	19.77	20	3
20	64QAM	1	0	18.7	18.81	18.77		
20	64QAM	50	24	18.84	18.86	18.88	18	5
20	64QAM	50	50	18.88	18.87	18.85		
20	256QAM	1	49	17.73	17.18	17.05	18	5
20	256QAM	1	99	17.61	17.13	17.08		
20	256QAM	50	24	16.85	16.86	16.83	18	5
20	256QAM	50	50	16.84	16.86	16.75		
20	256QAM	100	0	16.84	16.89	16.92	18	5
20	256QAM	100	0	16.92	16.92	16.97		
Channel								
Frequency [MHz]	1720.7	1743.2	1765.7					
15	QPSK	1	0	21.5	21.83	21.63	23	0
15	QPSK	1	27	21.87	21.86	21.89		
15	QPSK	1	74	21.62	21.72	21.61	22	1
15	QPSK	36	0	20.79	20.82	20.82		
15	QPSK	36	36	20.71	20.88	20.89	22	1
15	QPSK	36	36	20.77	20.89	20.76		
15	QPSK	75	0	20.68	20.83	20.75	22	1
15	16QAM	1	0	20.81	21.08	21.11		
15	16QAM	1	37	20.97	20.86	20.9	21	2
15	16QAM	1	74	21	21.11	20.96		
15	16QAM	36	0	19.67	19.77	19.68	21	2
15	16QAM	36	36	19.67	19.77	19.68		
15	16QAM	75	0	19.58	19.72	19.54	21	2
15	64QAM	1	0	19.73	20.1	20.01		
15	64QAM	1	37	19.71	20.24	19.94	20	3
15	64QAM	1	74	19.8	19.71	19.68		
15	64QAM	36	0	18.63	18.71	18.67	20	3
15	64QAM	36	36	18.61	18.67	18.68		
15	64QAM	36	36	18.56	18.77	18.56	18	5
15	64QAM	75	0	18.62	18.67	18.66		
15	256QAM	1	37	16.96	17.12	17.02	18	5
15	256QAM	1	74	16.98	17.12	17.02		
15	256QAM	50	0	16.86	16.88	16.83	18	5
15	256QAM	50	50	16.83	16.89	16.85		
15	256QAM	100	0	16.81	16.91	16.93	18	5
15	256QAM	100	0	16.93	16.92	16.96		
Channel								
Frequency [MHz]	1715.7	1743.2	1770.7					
10	QPSK	1	0	21.51	21.79	21.74	23	0
10	QPSK	1	27	21.81	21.82	21.81		
10	QPSK	1	49	21.75	21.77	21.71	22	1
10	QPSK	25	0	20.63	20.84	20.77		
10	QPSK	25	25	20.77	20.8	20.82	22	1
10	QPSK	25	25	20.75	20.8	20.75		
10	16QAM	1	0	20.87	21.09	21.15	22	1
10	16QAM	1	25	20.62	20.81	21.02		
10	16QAM	25	12	19.63	19.68	19.7	21	2
10	16QAM	25	12	19.73	19.89	19.77		
10	16QAM	25	12	19.68	19.85	19.81	20	3
10	16QAM	25	12	19.72	19.81	19.78		
10	16QAM	50	0	19.53	19.78	19.53	21	2
10	16QAM	50	0	19.85	20.12	19.98		
10	64QAM	1	49	19.8	19.84	19.73	20	3
10	64QAM	1	99	19.67	19.75	19.75		
10	64QAM	25	0	18.67	18.75	18.75	20	3
10	64QAM	25	0	18.62	18.67	18.7		
10	64QAM	25	25	18.68	18.81	18.85	18	5
10	64QAM	50	0	18.62	18.62	18.77		
10	256QAM	1	49	17.61	17.12	16.99	18	5
10	256QAM	1	25	16.94	17.20	16.97		
10	256QAM	1	49	17.51	17.12	16.96	18	5
10	256QAM	1	25	16.88	16.83	16.84		
10	256QAM	12	12	16.74	16.94	16.96	18	5
10	256QAM	25	25	16.82	16.89	16.92		
10	256QAM	50	0	16.83	16.92	16.96	18	5
10	256QAM	50	0	16.91	16.92	16.97		
Channel								
Frequency [MHz]	1715.7	1743.2	1770.7					
3	QPSK	1	0	21.52	21.8	21.73	23	0
3	QPSK	1	8	21.59	21.81	21.64		
3	QPSK	1	14	21.74	21.64	21.6	22	1
3	QPSK	1	28	20.79	20.81	20.88		
3	QPSK	8	4	20.7	20.8	20.67	22	1
3	QPSK	8	7	20.78	20.85	20.77		
3	QPSK	8	7	20.75	20.82	20.82	22	1
3	16QAM	1	0	20.76	21.17	21.07		
3	16QAM	1	8	20.84	20.8	20.95	22	1
3	16QAM	1	16	19.65	19.68	19.64		
3	16QAM	8	0	19.6	19.76	19.73	21	2
3	16QAM	8	4	19.58	19.97	19.74		
3	16QAM	15	0	19.67	19.81	19.71	21	2
3	16QAM	15	0	19.63	19.8	19.69		
3	16QAM	15	0	19.8	20.12	20.09	21	2
3	16QAM	15	0	19.8	20.12	19.84		
3	64QAM	1	14	19.68	19.77	19.76	20	3
3	64QAM	1	8	19.67	19.82	19.77		
3	64QAM	1	16	19.67	19.81	19.81	20	3
3	64QAM	8	7	19.56	19.84	19.59		
3	64QAM	15	0	17.04	16.98	16.90	19	5
3	256QAM	1	8	17.07	17.19	17.08		
3	256QAM	1	16	16.96	17.09	16.96	18	5
3	256QAM	8	0	16.95	16.94	16.85		
3	256QAM	8	4	16.81	16.83	16.76	18	5
3	256QAM	15	0	16.88	16.93	16.86	18	5
3	256QAM	15	0	16.96	16.96	16.96	18	5
Channel								
Frequency [MHz]	1715.7	1743.2	1770.7					
1.4	QPSK	1	0	21.61	21.89	21.71	23	0
1.4	QPSK	1	0	21.64	21.79	21.64		
1.4	QPSK	3	0	21.75	21.85	21.75	22	1
1.4	QPSK	3	0	21.73	21.89	21.89		
1.4	QPSK	3	0	20.9	21.01	20.9	22	1
1.4	QPSK	3	0	20.73	20.87	20.82		
1.4	QPSK	3	0	20.73	20.87	20.82	22	1
1.4	16QAM	1	5	21.02	21.08	20.91		
1.4	16QAM	3	0	20.76	20.79	20.73	21	2
1.4	16QAM	3	0	20.58	20.62	20.53		
1.4	16QAM	3	0	20.58	20.62	20.53	21	2
1.4	16QAM	3	0	20.87	20.83	20.87		
1.4	16QAM	3	0	19.76	19.72	19.72	21	2
1.4	16QAM	3	0	19.76	20.22	19.88		
1.4	16QAM	3	0	19.54	19.66	19.55	20	3
1.4	16QAM	3	0	19.89	19.84	19.87		
1.4	16QAM	6	0	18.61	18.84	18.65	18	5
1.4	16QAM	6	0	18.69	17.91	18.65		
1.4	16QAM	6	0	17.76	17.74	17.69	18	5
1.4	16QAM	6	0	17.06	17.18	17.07		
1.4	256QAM	1	0	16.77	16.95	16.76	18	5
1.4	256QAM	1	0	16.89	16.86	16.86		
1.4	256QAM	3	0	16.88	16.95	16.93	18	5
1.4	256QAM	3	0	16.93	16.93	16.93		

Band 38_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Max Ch / Freq	Power High Ch / Freq	Tune-up test (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.76	22.89	22.77			
20	QPSK	1	48	22.82	22.82	22.86			
20	QPSK	1	96	22.80	22.86	22.82			
20	QPSK	50	0	21.71	21.78	21.70			
20	QPSK	50	24	21.82	21.74	21.68			
20	QPSK	50	48	21.72	22.02	21.75			
20	QPSK	100	0	21.82	21.85	21.88			
20	16QAM	1	0	21.70	21.82	21.76			
20	16QAM	1	48	21.72	21.82	21.79			
20	16QAM	50	24	20.81	20.75	20.77			
20	16QAM	50	50	20.85	20.83	20.77			
20	16QAM	100	0	20.87	20.88	20.79			
20	64QAM	1	0	20.55	20.72	20.57			
20	64QAM	1	48	20.61	20.69	20.59			
20	64QAM	1	96	20.56	20.73	20.62			
20	64QAM	50	0	19.80	19.73	19.71			
20	64QAM	50	24	19.80	19.77	19.77			
20	64QAM	50	50	19.80	19.79	19.73			
20	64QAM	100	0	19.88	19.80	19.82			
20	256QAM	1	0	17.81	17.87	17.85			
20	256QAM	1	48	17.85	17.86	17.88			
20	256QAM	1	96	17.88	17.88	17.47			
20	256QAM	50	0	17.83	17.74	17.73			
20	256QAM	50	24	17.78	17.76	17.76			
20	256QAM	50	50	17.72	17.84	17.80			
20	256QAM	100	0	17.80	17.80	17.80			
Channel									
Frequency (MHz)									
15	QPSK	1	0	22.73	22.73	22.73			
15	QPSK	1	37	22.86	22.38	22.84			
15	QPSK	1	74	22.83	22.43	22.49			
15	QPSK	36	0	21.68	21.71	21.68			
15	QPSK	36	20	21.52	21.48	21.68			
15	QPSK	36	36	21.66	21.82	21.63			
15	16QAM	1	0	21.80	21.87	21.87			
15	16QAM	1	37	21.81	21.73	21.70			
15	16QAM	36	0	20.77	20.84	20.84			
15	16QAM	36	20	20.85	20.85	20.85			
15	16QAM	36	36	20.91	20.89	20.89			
15	16QAM	75	0	20.82	20.88	20.80			
15	64QAM	1	0	20.81	20.84	20.85			
15	64QAM	1	37	20.81	20.82	20.82			
15	64QAM	1	74	20.78	20.85	20.83			
15	64QAM	36	0	19.85	19.80	19.84			
15	64QAM	36	20	19.82	19.82	19.84			
15	64QAM	36	36	19.85	19.85	19.85			
15	64QAM	75	0	19.75	19.45	19.75			
15	256QAM	1	0	17.43	17.57	17.52			
15	256QAM	1	37	17.52	17.52	17.52			
15	256QAM	1	74	17.54	17.40	17.30			
15	256QAM	36	0	17.71	17.74	17.84			
15	256QAM	36	20	17.72	17.67	17.68			
15	256QAM	36	36	17.83	17.69	17.68			
15	256QAM	75	0	17.80	17.88	17.47			
Channel									
Frequency (MHz)									
10	QPSK	1	0	22.87	22.88	22.88			
10	QPSK	1	25	22.46	22.38	22.45			
10	QPSK	1	49	22.48	22.44	22.62			
10	QPSK	25	0	21.52	21.75	21.67			
10	QPSK	25	12	21.56	21.48	21.66			
10	QPSK	25	25	21.70	21.74	21.72			
10	16QAM	1	0	21.76	21.85	21.68			
10	16QAM	1	25	21.89	21.88	21.76			
10	16QAM	1	49	21.81	21.80	21.76			
10	16QAM	25	0	20.74	20.88	20.80			
10	16QAM	25	12	20.73	20.80	20.80			
10	16QAM	25	25	20.81	20.88	20.88			
10	64QAM	1	0	20.85	20.84	20.84			
10	64QAM	1	25	20.87	20.36	20.52			
10	64QAM	1	49	20.75	20.50	20.61			
10	64QAM	25	0	19.78	19.42	19.74			
10	64QAM	25	12	19.73	19.83	19.84			
10	64QAM	25	25	19.71	19.84	19.83			
10	64QAM	50	0	19.82	19.87	19.80			
10	256QAM	1	0	17.41	17.48	17.44			
10	256QAM	1	25	17.41	17.48	17.55			
10	256QAM	1	49	17.53	17.41	17.38			
10	256QAM	25	0	17.48	17.82	17.88			
10	256QAM	25	12	17.74	17.81	17.86			
10	256QAM	25	25	17.58	17.79	17.82			
10	256QAM	50	0	17.48	17.85	17.82			
Channel									
Frequency (MHz)									
5	QPSK	1	0	22.84	22.71	22.84			
5	QPSK	1	12	22.57	22.52	22.45			
5	QPSK	1	24	22.48	22.51	22.48			
5	QPSK	12	0	21.82	21.73	21.68			
5	QPSK	12	7	21.59	21.49	21.59			
5	QPSK	12	13	21.70	21.82	21.82			
5	QPSK	25	0	21.81	21.75	21.85			
5	16QAM	1	0	21.88	21.84	21.88			
5	16QAM	1	12	21.93	21.82	21.89			
5	16QAM	1	24	21.91	21.72	21.71			
5	16QAM	12	0	20.74	20.89	20.82			
5	16QAM	12	7	20.69	20.85	20.86			
5	16QAM	12	13	20.83	20.86	20.70			
5	16QAM	25	0	20.73	20.80	20.80			
5	64QAM	1	0	20.83	20.80	20.47			
5	64QAM	1	12	20.81	20.40	20.64			
5	64QAM	1	24	20.70	20.55	20.57			
5	64QAM	12	0	19.70	19.43	19.60			
5	64QAM	12	7	19.83	19.69	19.50			
5	64QAM	12	13	19.82	19.65	19.62			
5	64QAM	25	0	19.73	19.84	19.80			
5	256QAM	1	0	17.42	17.84	17.80			
5	256QAM	1	12	17.44	17.48	17.54			
5	256QAM	1	24	17.54	17.52	17.32			
5	256QAM	12	0	17.59	17.82	17.84			
5	256QAM	12	7	17.75	17.71	17.70			
5	256QAM	12	13	17.84	17.73	17.85			
5	256QAM	25	0	17.48	17.89	17.86			

Band 38_Ant 1									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Max Ch / Freq	Power High Ch / Freq	Tune-up test (dBm)	MPR (dB)	
Channel									
Frequency (MHz)				37650	39050	39150			
20	QPSK	1	0	17.43	17.46	17.30			
20	QPSK	1	48	17.18	17.17	17.18			
20	QPSK	1	89	17.32	17.51	17.14			
20	QPSK	50	0	17.16	17.38	17.21			
20	QPSK	50	24	17.21	17.13	17.10			
20	QPSK	50	48	17.24	17.31	17.36			
20	QPSK	100	0	17.28	17.35	17.24			
20	16QAM	1	0	17.25	17.30	17.30			
20	16QAM	1	48	17.29	17.32	17.23			
20	16QAM	1	99	17.38	17.35	17.40			
20	16QAM	50	0	17.22	17.30	17.30			
20	16QAM	50	24	17.24	17.31	17.36			
20	16QAM	50	50	17.25	17.19	17.30			
20	16QAM	100	0	17.22	17.25	17.24			
20	64QAM	1	0	17.23	17.24	17.28			
20	64QAM	1	48	17.22	17.15	17.30			
20	64QAM	1	99	17.31	17.18	17.32			
20	64QAM	50	0	17.34	17.25	17.24			
20	64QAM	50	24	17.34	17.28	17.26			
20	64QAM	50	50	17.10	17.11	17.24			
20	64QAM	100	0	17.26	17.16	17.26			
20	256QAM	1	0	17.25	17.28	17.10			
20	256QAM	1	48	17.32	17.32	17.24			
20	256QAM	1	99	17.24	17.31	17.16			
20	256QAM	50	0	17.20	17.25	17.14			
20	256QAM	50	24	17.25	17.31	17.27			
20	256QAM	50	50	17.32	17.41	17.45			
20	256QAM	100	0	17.18	17.22	17.18			
Channel									
Frequency (MHz)				39775	39905	39925			
15	QPSK	1	0	17.43	17.46	17.30			
15	QPSK	1	37	17.07	17.08	17.08			
15	QPSK	1	74	17.08	17.07	17.06			
15	QPSK	36	0	17.08	17.31	17.08			
15	QPSK	36	20	17.15	17.07	17.01			
15	QPSK	36	36	17.21	17.28	17.11			
15	16QAM	1	0	17.17	17.15	17.17			
15	16QAM	1	37	17.18	17.12	17.14			
15	16QAM	1	74	17.31	17.30	17.32			
15	16QAM	36	0	17.12	17.27	17.13			
15	16QAM	36	20	17.12	17.10	17.10			
15	16QAM	36	36	17.12	17.12	17.12			
15	16QAM	75	0	17.15	17.13	17.23			
15	256QAM	1	0	17.15	17.20	17.07			
15	256QAM	1	37	17.16	17.29	17.21			
15	256QAM	1	74	17.17	17.26	17.07			
15	256QAM	36	0	17.19	17.32	17.28			
15	256QAM	36	20	17.19	17.27	17.20			
15	256QAM	36	36	17.24	17.37	17.40			
15	256QAM	75	0	17.15	17.16	17.07			
Channel									
Frequency (MHz)				39975	39995	40015			
15	QPSK	1	0	17.43	17.46	17.30			
15	QPSK	1	25	17.08	17.02	17.04			
15	QPSK	1	49	17.09	17.03	17.05			
15	QPSK	25	0	17.04	17.28	17.25			
15	QPSK	25	12	17.15	17.08	17.05			
15	QPSK	25	25	17.16	17.11	17.10			
15	QPSK	50	0	17.16	17.24	17.13			
15	16QAM	1	0	17.19	17.11	17.18			
15	16QAM	1	25	17.28	17.21	17.20			
15	16QAM	1	49	17.33	17.30	17.28			
15	16QAM	25	0	17.12	17.21	17.23			
15	16QAM	25	12	17.14	17.19	17.20			
15	16QAM	25	25	17.20	17.13	17.17			
15	16QAM	50	0	17.16	17.25	17.17			
15	64QAM	1	0	17.30	17.11	17.21			
15	64QAM	1	25	17.17	17.11	17.21			
15	64QAM	1	49	17.17	17.11	17.21			
15	64QAM	25	0	17.24	17.16	17.21			
15	64QAM	25	12	17.26	17.26	17.21			
15	64QAM	25	25	17.28	17.24	17.18			
15	64QAM	50	0	17.17	17.06	17.21			
15	256QAM	1	0	17.17	17.06	17.21			
15	256QAM	1	25	17.12	17.05	17.15			
15	256QAM	1	49	17.12	17.05	17.08			
15	256QAM	25	0	17.26	17.20	17.23			
15	256QAM	25	12	17.14	17.18	17.16			
15	256QAM	25	25	17.28	17.30	17.40			
15	256QAM	50	0	17.18	17.08	17.18			
Channel									
Frequency (MHz)				40075	40095	40115			
5	QPSK	1	0	17.43	17.46	17.30			
5	QPSK	1	12	17.06	17.07	17.12			
5	QPSK	1	24	17.07	17.06	17.11			
5	QPSK	12	0	17.07	17.13	17.12			
5	QPSK	12	7	17.10	17.01	17.07			
5	QPSK	13	13	17.18	17.08	17.11			
5	QPSK	25	0	17.18	17.22	17.14			
5	16QAM	1	0	17.20	17.08	17.28			
5	16QAM	1	12	17.21	17.09	17.21			
5	16QAM	1	24	17.34	17.29	17.35			
5	16QAM	12	0	17.13	17.17	17.23			
5	16QAM	12	7	17.11	17.04	17.20			
5	16QAM	12	13	17.18	17.06	17.17			
5	64QAM	1	0	17.14	17.13	17.13			
5	64QAM	1	5	17.26	17.15	17.15			
5	64QAM	1	12	17.12	17.07	17.18			
5	64QAM	12	0	17.17	17.17	17.16			
5	64QAM	12	7	17.27	17.12	17.13			
5	64QAM	12	7	17.30	17.21	17.23			
5	64QAM	25	0	17.17	17.20	17.13			
5	64QAM	25	5	17.16	17.11	17.10			
5	256QAM	1	0	17.17	17.06	17.21			
5	256QAM	1	12	17.15	17.07	17.21			
5	256QAM	1	24	17.17	17.26	17.09			
5	256QAM	12	0	17.28	17.28	17.16			
5	256QAM	12	7	17.19	17.12	17.19			
5	256QAM	12	13	17.24	17.08	17.38			
5	256QAM	25	0	17.14	17.21	17.14			



Band 38_Ant 3													
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Mid Ch / Freq	Power High Ch / Freq	Time-up limit (dBm)	MPE (dB)					
Channel													
Frequency (MHz)				37860	38000	38160							
20	QPSK	1	0	19.01	19.11	19.06	20.2	0					
20	QPSK	1	49	19.03	19.78	19.74							
20	QPSK	1	99	19.07	19.81	19.76	20.2	0					
20	QPSK	50	0	19.09	19.03	19.03							
20	QPSK	50	24	19.01	19.02	19.88	20.2	0					
20	QPSK	50	49	19.03	19.02	19.88							
20	QPSK	100	0	19.06	19.97	19.89	20.2	0					
20	16QAM	1	0	19.07	19.96	19.73							
20	16QAM	1	49	19.03	19.96	19.84	20.2	0					
20	16QAM	50	0	19.03	19.91	19.93							
20	16QAM	50	24	19.03	19.95	19.72	20.2	0					
20	16QAM	50	50	19.89	19.91	19.72							
20	16QAM	100	0	19.02	19.79	19.84	20.2	0					
20	16QAM	100	1	19.02	19.97	19.99							
20	84QAM	1	49	19.86	19.86	19.75	20.2	0					
20	84QAM	1	99	19.93	19.93	19.75							
20	84QAM	50	0	19.03	19.87	19.90	20.2	0					
20	84QAM	50	24	19.02	19.85	19.90							
20	84QAM	50	50	19.90	19.98	19.99	20.2	0					
20	84QAM	100	0	19.04	19.88	19.89							
20	256QAM	1	0	19.76	19.70	19.86	20.2	0					
20	256QAM	1	99	19.92	19.95	19.93							
20	256QAM	1	99	19.98	19.89	19.80	20.2	0					
20	256QAM	50	0	19.02	19.96	19.81							
20	256QAM	50	24	19.87	19.89	19.86	20.2	0					
20	256QAM	50	50	19.89	19.81	19.77							
20	256QAM	100	0	19.03	19.77	19.83							
Channel													
Frequency (MHz)				37765	38000	38175	Time-up limit (dBm)	MPE (dB)					
15	QPSK	1	0	19.03	19.03	19.03	20.2	0					
15	QPSK	1	37	19.84	19.70	19.69							
15	QPSK	1	74	19.84	19.69	19.68	20.2	0					
15	QPSK	36	0	19.85	19.80	19.80							
15	QPSK	36	20	19.86	19.87	19.77	20.2	0					
15	QPSK	36	36	19.89	19.87	19.83							
15	QPSK	75	0	19.89	19.84	19.83	20.2	0					
15	16QAM	1	0	19.83	19.80	19.84							
15	16QAM	1	74	19.79	19.82	19.69	20.2	0					
15	16QAM	36	0	19.87	19.83	19.86							
15	16QAM	36	20	19.87	19.82	19.82	20.2	0					
15	16QAM	36	39	19.88	19.86	19.82							
15	16QAM	75	0	19.86	19.88	19.77	20.2	0					
15	16QAM	75	0	19.86	19.80	19.87							
15	84QAM	1	37	19.79	19.88	19.86	20.2	0					
15	84QAM	1	74	19.77	19.86	19.85							
15	84QAM	36	0	19.86	19.84	19.85	20.2	0					
15	84QAM	36	20	19.88	19.75	19.80							
15	84QAM	75	0	19.81	19.82	19.76	20.2	0					
15	256QAM	1	0	19.75	19.82	19.74							
15	256QAM	1	74	19.81	19.80	19.68	20.2	0					
15	256QAM	36	0	19.77	19.81	19.74							
15	256QAM	36	20	19.84	19.84	19.80	20.2	0					
15	256QAM	36	39	19.83	19.74	19.71							
15	256QAM	75	0	19.72	19.83	19.76							
Channel													
Frequency (MHz)				37760	38000	38200	Time-up limit (dBm)	MPE (dB)					
5	QPSK	1	0	19.04	19.91	19.86	20.2	0					
5	QPSK	1	12	19.06	19.75	19.65							
5	QPSK	1	24	19.03	19.75	19.72	20.2	0					
5	QPSK	12	0	19.05	19.99	19.95							
5	QPSK	12	7	19.09	19.90	19.75	20.2	0					
5	QPSK	12	13	19.05	19.83	19.84							
5	QPSK	25	0	19.03	19.92	19.84	20.2	0					
5	16QAM	1	0	19.84	19.87	19.70							
5	16QAM	1	12	19.89	19.92	19.80	20.2	0					
5	16QAM	12	13	19.82	19.97	19.87							
5	16QAM	12	0	19.89	19.87	19.86	20.2	0					
5	16QAM	12	7	19.83	19.73	19.73							
5	16QAM	25	0	19.82	19.87	19.83	20.2	0					
5	16QAM	25	0	19.82	19.87	19.82							
5	84QAM	1	24	19.84	19.91	19.87	20.2	0					
5	84QAM	12	7	19.82	19.82	19.82							
5	84QAM	12	7	19.82	19.81	19.87	20.2	0					
5	84QAM	12	13	19.89	19.89	19.82							
5	84QAM	25	0	19.84	19.82	19.71	20.2	0					
5	84QAM	1	0	19.74	19.82	19.82							
5	256QAM	1	12	19.80	19.84	19.82	20.2	0					
5	256QAM	1	24	19.89	19.80	19.72							
5	256QAM	12	0	19.75	19.89	19.74	20.2	0					
5	256QAM	12	7	19.81	19.74	19.83							
5	256QAM	12	13	19.86	19.74	19.75	20.2	0					
5	256QAM	25	0	19.87	19.88	19.74							

Band 41_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Power Level Ch. / Freq.	Time-up limit (dBm)	MPE (dB)
Channel										
Frequency (MHz)				39750	40185	40620	41055	41490		
15	QPSK	1	0	22.74	22.78	22.90	22.77	22.78	24.0	0
15	QPSK	1	49	22.78	22.80	22.71	22.52	22.55		
15	QPSK	1	99	22.71	22.78	22.69	22.62	22.72	23.1	1
15	QPSK	50	0	21.88	21.95	21.98	21.74	21.82		
15	QPSK	50	24	21.80	21.81	21.69	21.60	21.80	23.1	1
15	QPSK	50	50	21.86	21.91	21.85	21.76	21.74		
15	16QAM	1	0	21.89	21.83	21.85	21.77	21.84	22.2	2
15	16QAM	1	49	21.86	21.94	21.85	21.76	21.74		
15	16QAM	1	99	21.83	22.03	21.90	21.82	21.90	22.2	2
15	16QAM	50	0	20.74	21.92	20.85	20.78	20.89		
15	16QAM	50	24	20.76	20.89	20.85	20.79	20.80	22.2	2
15	16QAM	50	50	20.81	20.91	20.79	20.65	20.75		
15	16QAM	100	0	20.81	20.93	20.75	20.62	20.76	21.1	3
15	16QAM	1	0	20.75	20.92	20.75	20.62	20.68		
15	84QAM	1	0	20.83	20.90	20.76	20.67	20.75	19.5	5
15	84QAM	1	49	20.83	20.90	20.76	20.64	20.75		
15	84QAM	50	0	19.78	19.93	19.75	19.61	19.73	19.5	5
15	84QAM	50	24	19.80	19.98	19.83	19.63	19.63		
15	84QAM	50	50	19.81	19.93	19.79	19.63	19.81	19.5	5
15	84QAM	100	0	19.77	19.87	19.81	19.66	19.74		
15	256QAM	1	0	17.73	17.73	17.83	17.71	17.70	19.5	5
15	256QAM	1	49	17.78	17.78	17.77	17.69	17.64		
15	256QAM	1	99	17.77	17.76	17.69	17.72	17.67	19.5	5
15	256QAM	50	0	17.67	17.65	17.65	17.57	17.56		
15	256QAM	50	24	17.81	17.77	17.74	17.74	17.68	19.5	5
15	256QAM	50	50	17.80	17.76	17.82	17.68	17.67		
15	256QAM	100	0	17.73	17.74	17.82	17.61	17.63		
Frequency (MHz)				39750	40175	40620	41048	41515	Time-up limit (dBm)	MPE (dB)
15	QPSK	1	0	22.74	22.73	22.73	22.74	22.73	24.0	0
15	QPSK	1	39	22.67	22.63	22.71	22.51	22.55		
15	QPSK	1	74	22.67	22.76	22.80	22.66	22.72	23.1	1
15	QPSK	50	0	21.88	21.88	21.88	21.69	21.73		
15	QPSK	50	20	21.80	21.85	21.69	21.74	21.88	23.1	1
15	QPSK	50	45	21.82	21.79	21.76	21.62	21.68		
15	16QAM	1	0	21.70	21.87	21.89	21.70	21.74	22.2	2
15	16QAM	1	0	21.89	21.82	21.74	21.84	21.75		
15	16QAM	1	49	21.77	21.93	21.83	21.73	21.83	22.2	2
15	16QAM	1	74	21.80	22.01	21.70	21.78	21.81		
15	16QAM	50	0	20.68	20.95	20.77	20.73	20.89	22.2	2
15	16QAM	50	20	20.68	20.90	20.77	20.69	20.77		
15	16QAM	50	39	20.67	20.87	20.78	20.74	20.76	22.2	2
15	16QAM	50	45	20.73	20.90	20.75	20.65	20.74		
15	16QAM	100	0	20.73	20.90	20.71	20.63	20.83	22.2	2
15	16QAM	1	39	20.82	20.83	20.74	20.76	20.74		
15	84QAM	1	0	20.65	20.78	20.74	20.62	20.78	21.1	3
15	84QAM	1	49	20.70	20.85	20.75	20.70	20.78		
15	84QAM	50	0	19.70	19.85	19.75	19.71	19.67	19.5	5
15	84QAM	50	20	19.76	19.84	19.76	19.63	19.67		
15	84QAM	50	39	19.78	19.89	19.75	19.69	19.82	19.5	5
15	84QAM	50	45	19.80	19.75	19.70	19.60	19.85		
15	256QAM	1	0	17.60	17.67	17.72	17.66	17.69	19.5	5
15	256QAM	1	49	17.64	17.61	17.62	17.59	17.61		
15	256QAM	1	74	17.60	17.67	17.78	17.66	17.76	19.5	5
15	256QAM	50	0	17.55	17.76	17.53	17.70	17.65		
15	256QAM	50	39	17.68	17.88	17.84	17.82	17.64	19.5	5
15	256QAM	50	45	17.63	17.74	17.83	17.61	17.63		
Frequency (MHz)				39750	40160	40620	41060	41560	Time-up limit (dBm)	MPE (dB)
15	QPSK	1	0	22.71	22.80	22.79	22.72	22.74	24.0	0
15	QPSK	1	29	22.77	22.66	22.81	22.50	22.61		
15	QPSK	1	49	22.77	22.78	22.78	22.67	22.71	23.1	1
15	QPSK	50	0	21.75	21.91	21.95	21.81	21.87		
15	QPSK	50	12	21.68	21.81	21.67	21.79	21.70	23.1	1
15	QPSK	50	24	21.73	21.79	21.72	21.78	21.68		
15	QPSK	60	0	21.72	21.88	22.02	21.62	21.70	22.2	2
15	16QAM	1	0	21.80	21.80	21.80	21.76	21.74		
15	16QAM	1	49	21.83	21.91	21.87	21.79	21.78	22.2	2
15	16QAM	1	99	21.71	22.01	21.80	21.80	21.79		
15	16QAM	50	0	20.64	20.86	20.66	20.67	20.78	22.2	2
15	16QAM	50	24	20.72	20.88	20.75	20.65	20.78		
15	16QAM	50	25	20.78	20.88	20.75	20.68	20.78	22.2	2
15	16QAM	100	0	20.75	20.93	20.73	20.65	20.84		
15	84QAM	1	0	20.63	20.86	20.76	20.71	20.86	21.1	3
15	84QAM	1	29	20.80	20.89	20.74	20.73	20.87		
15	84QAM	50	0	20.70	20.89	20.75	20.69	20.88	22.2	2
15	84QAM	25	0	19.74	19.91	19.81	19.75	19.87		
15	84QAM	25	15	19.75	19.96	19.75	19.69	19.76	21.1	3
15	84QAM	25	25	19.88	19.93	19.84	19.79	19.80		
15	84QAM	50	0	19.77	19.80	19.68	19.71	19.85	19.5	5
15	84QAM	50	15	19.79	19.84	19.72	19.75	19.69		
15	256QAM	1	25	17.70	17.74	17.82	17.70	17.70	19.5	5
15	256QAM	1	49	17.68	17.74	17.80	17.66	17.78		
15	256QAM	12	0	17.65	17.81	17.78	17.76	17.68	19.5	5
15	256QAM	25	12	17.80	17.74	17.68	17.74	17.70		
15	256QAM	25	25	17.77	17.66	17.65	17.77	17.71	19.5	5
15	256QAM	50	0	17.61	17.81	17.77	17.61	17.63		
Frequency (MHz)				39675	40148	40620	41059	41565	Time-up limit (dBm)	MPE (dB)
15	QPSK	1	0	22.71	22.80	22.80	22.60	22.73	24.0	0
15	QPSK	1	12	22.75	22.80	22.80	22.60	22.73		
15	QPSK	1	24	22.66	22.76	22.80	22.56	22.66	23.1	1
15	QPSK	12	0	21.81	21.90	21.90	21.77	21.81		
15	QPSK	12	7	21.73	21.77	21.66	21.74	21.83	23.1	1
15	QPSK	12	12	21.78	21.78	21.78	21.78	21.78		
15	QPSK	25	0	21.68	21.88	22.00	21.82	21.81	22.2	2
15	QPSK	25	1	21.81	21.89	21.80	21.81	21.80		
15	16QAM	1	0	21.81	21.90	21.87	21.79	21.78	22.2	2
15	16QAM	1	24	21.80	22.03	21.75	21.89	21.83		
15	16QAM	12	0	20.72	20.91	20.75	20.66	20.83	22.2	2
15	16QAM	12	9	20.85	20.88	20.78	20.68	20.83		
15	16QAM	12	13	20.79	20.90	20.79	20.65	20.74	22.2	2
15	16QAM	12	18	20.74	20.93	20.78	20.68	20.74		
15	84QAM	1	0	20.75	20.82	20.88	20.67	20.71	21.1	3
15	84QAM	1	12	20.81	20.91	20.72	20.78	20.69		
15	84QAM	12	0	20.83	20.90	20.77	20.68	20.78	22.2	2
15	84QAM	12	0	19.71	19.82	19.75	19.73	19.87		
15	84QAM	12	7	19.80	19.87	19.71	19.61	19.69	21.1	3
15	84QAM	12	9	19.87	19.84	19.79	19.70	19.80		
15	84QAM	25	0	19.67	19.84	19.69	19.72	19.79	19.5	5
15	84QAM	25	1	17.61	17.61	17.69	17.61	17.70		
15	256QAM	1	12	17.73	17.63	17.80	17.79	17.65	19.5	5
15	256QAM	1	24	17.66	17.71	17.78	17.79	17.68		
15	256QAM	12	0	17.62	17.81	17.76	17.76	17.68	19.5	5
15	256QAM	12	7	17.68	17.73	17.68	17.78	17.67		
15	256QAM	12	13	17.68	17.76	17.84	17.85	17.63	19.5	5
15	256QAM	12	15	17.69	17.72	17.82	17.65	17.69		

Band 41_Ant 2												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power High Middle Ch / Freq	Power High Middle Ch / Freq	Power High Middle Ch / Freq	Power High Middle Ch / Freq	Power High Middle Ch / Freq	Turn-up test (dBm)	MPR (dB)	
Channel												
Frequency (MHz)				39750	40188	40626	41068	41502	41940			
20	QPSK	1	0	20.49	20.67	20.74	20.52	20.62	20.62			
20	QPSK	1	40	20.47	20.58	20.63	20.48	20.56	20.56	21.7	0	
20	QPSK	1	80	20.44	20.61	20.67	20.42	20.48	20.48			
20	QPSK	50	0	20.63	20.55	20.72	20.59	20.65	20.65			
20	QPSK	50	24	20.57	20.68	20.68	20.54	20.57	20.57	21.7	0	
20	QPSK	100	0	20.64	20.62	20.62	20.51	20.52	20.52			
20	QPSK	100	0	20.44	20.61	20.65	20.63	20.53	20.53			
20	16QAM	1	0	20.63	20.41	20.54	20.42	20.51	20.51	21.7	0	
20	16QAM	1	40	20.63	20.57	20.34	20.49	20.47	20.47			
20	16QAM	1	80	20.49	20.73	20.39	20.4	20.4	20.4			
20	16QAM	50	0	20.41	20.64	20.43	20.42	20.54	20.54	21.7	0	
20	16QAM	50	24	20.46	20.64	20.5	20.59	20.59	20.59			
20	16QAM	50	50	20.6	20.63	20.54	20.64	20.59	20.59	21.7	0	
20	16QAM	100	0	20.49	20.62	20.57	20.41	20.43	20.43			
20	16QAM	100	0	20.54	20.41	20.31	20.18	20.35	20.35	21.7	0	
20	16QAM	1	40	20.59	20.47	20.28	20.31	20.29	20.29			
20	16QAM	1	80	20.25	20.58	20.57	20.35	20.3	20.3	21.7	0	
20	16QAM	50	0	20.53	20.63	20.48	20.49	20.59	20.59			
20	16QAM	50	24	20.4	20.67	20.43	20.46	20.45	20.45	21.7	0	
20	16QAM	50	50	20.46	20.64	20.53	20.57	20.49	20.49			
20	16QAM	100	0	20.42	20.56	20.49	20.36	20.5	20.5			
20	256QAM	1	0	19.86	19.57	19.52	19.46	19.33	19.33	20.7	1	
20	256QAM	1	40	19.74	19.66	19.39	19.33	19.36	19.36			
20	256QAM	1	80	19.84	19.67	19.41	19.35	19.48	19.48			
20	256QAM	50	0	19.84	19.66	19.39	19.33	19.36	19.36	20.7	1	
20	256QAM	50	24	19.80	19.61	19.35	19.44	19.46	19.46			
20	256QAM	50	50	19.71	19.48	19.47	19.39	19.34	19.34			
20	256QAM	100	0	19.78	19.48	19.36	19.38	19.37	19.37			
Channel												
Frequency (MHz)				39750	40173	40626	41068	41515	41957	Turn-up test (dBm)	MPR (dB)	
16	QPSK	1	0	20.44	20.49	20.69	20.41	20.52	20.52			
16	QPSK	1	37	20.4	20.5	20.53	20.41	20.44	20.44	21.70	0	
16	QPSK	1	74	20.28	20.4	20.52	20.32	20.38	20.38			
16	QPSK	36	0	20.61	20.57	20.68	20.49	20.55	20.55			
16	QPSK	36	20	20.48	20.6	20.63	20.52	20.5	20.5	21.7	0	
16	QPSK	75	0	20.58	20.58	20.69	20.5	20.52	20.52			
16	QPSK	75	0	20.33	20.5	20.63	20.6	20.43	20.43			
16	16QAM	1	0	20.45	20.3	20.44	20.4	20.46	20.46	21.7	0	
16	16QAM	1	37	20.43	20.49	20.39	20.36	20.42	20.42			
16	16QAM	1	74	20.34	20.69	20.33	20.34	20.31	20.31			
16	16QAM	36	0	20.36	20.51	20.39	20.4	20.5	20.5	21.7	0	
16	16QAM	36	20	20.27	20.46	20.46	20.5	20.47	20.47			
16	16QAM	36	39	20.58	20.51	20.42	20.52	20.53	20.53			
16	16QAM	75	0	20.44	20.56	20.47	20.29	20.37	20.37	21.7	0	
16	16QAM	1	37	20.23	20.22	20.22	20.16	20.32	20.32			
16	16QAM	1	74	20.58	20.43	20.21	20.2	20.17	20.17			
16	16QAM	1	74	20.23	20.47	20.21	20.23	20.25	20.25	21.7	0	
16	16QAM	36	0	20.23	20.6	20.36	20.41	20.55	20.55			
16	16QAM	36	20	20.32	20.58	20.37	20.44	20.36	20.36			
16	16QAM	36	39	20.24	20.42	20.25	20.24	20.28	20.28	21.7	0	
16	16QAM	75	0	20.34	20.53	20.46	20.27	20.35	20.35			
16	256QAM	1	0	19.67	19.35	19.47	19.38	19.26	19.26	20.7	1	
16	256QAM	1	37	19.66	19.35	19.33	19.36	19.27	19.27			
16	256QAM	1	74	19.77	19.55	19.52	19.30	19.42	19.42			
16	256QAM	36	0	19.70	19.47	19.52	19.23	19.20	19.20	20.7	1	
16	256QAM	36	20	19.73	19.63	19.35	19.36	19.27	19.27			
16	256QAM	36	39	19.61	19.42	19.35	19.31	19.31	19.31			
16	256QAM	75	0	19.72	19.52	19.55	19.27	19.33	19.33			
Channel												
Frequency (MHz)				39750	40160	40626	41068	41540	41940	Turn-up test (dBm)	MPR (dB)	
10	QPSK	1	0	20.43	20.44	20.74	20.46	20.46	20.46	21.70	0	
10	QPSK	1	26	20.41	20.48	20.57	20.38	20.3	20.3			
10	QPSK	1	49	20.3	20.44	20.49	20.34	20.39	20.39			
10	QPSK	25	0	20.45	20.61	20.61	20.53	20.53	20.53	21.7	0	
10	QPSK	25	12	20.45	20.56	20.56	20.49	20.54	20.54			
10	QPSK	25	25	20.29	20.4	20.6	20.55	20.47	20.47			
10	QPSK	25	50	20.38	20.49	20.59	20.36	20.46	20.46	21.7	0	
10	16QAM	1	0	20.41	20.38	20.46	20.35	20.49	20.49			
10	16QAM	1	26	20.35	20.52	20.5	20.39	20.42	20.42			
10	16QAM	1	49	20.33	20.68	20.3	20.28	20.36	20.36	21.7	0	
10	16QAM	25	0	20.4	20.59	20.34	20.35	20.42	20.42			
10	16QAM	25	12	20.38	20.52	20.46	20.35	20.48	20.48			
10	16QAM	25	25	20.54	20.61	20.49	20.57	20.5	20.5	21.7	0	
10	16QAM	50	0	20.46	20.53	20.43	20.32	20.4	20.4			
10	16QAM	1	0	20.21	20.42	20.24	20.06	20.36	20.36	21.7	0	
10	16QAM	1	26	20.25	20.45	20.24	20.24	20.23	20.23			
10	16QAM	1	49	20.15	20.46	20.2	20.2	20.2	20.2			
10	16QAM	25	0	20.23	20.6	20.45	20.43	20.56	20.56	21.7	0	
10	16QAM	25	12	20.33	20.56	20.37	20.39	20.35	20.35			
10	16QAM	25	25	20.43	20.35	20.48	20.45	20.42	20.42			
10	16QAM	50	0	20.39	20.43	20.39	20.26	20.1	20.1			
10	256QAM	1	0	19.55	19.53	19.43	19.43	19.30	19.30	20.7	1	
10	256QAM	1	26	19.63	19.56	19.34	19.34	19.26	19.26			
10	256QAM	1	49	19.72	19.57	19.32	19.31	19.35	19.35			
10	256QAM	25	0	19.70	19.53	19.34	19.24	19.24	19.24	20.7	1	
10	256QAM	25	12	19.75	19.58	19.37	19.34	19.41	19.41			
10	256QAM	25	25	19.64	19.41	19.40	19.26	19.25	19.25			
10	256QAM	50	0	19.66	19.50	19.53	19.33	19.32	19.32			
Channel												
Frequency (MHz)				39675	40144	40626	41068	41565	41940	Turn-up test (dBm)	MPR (dB)	
5	QPSK	1	0	20.20	20.57	20.68	20.46	20.56	20.56	21.70	0	
5	QPSK	1	2	20.42	20.5	20.55	20.43	20.49	20.49			
5	QPSK	1	24	20.34	20.36	20.52	20.36	20.46	20.46			
5	QPSK	12	0	20.23	20.55	20.55	20.36	20.37	20.37	21.7	0	
5	QPSK	12	7	20.46	20.59	20.64	20.52	20.48	20.48			
5	QPSK	12	13	20.3	20.42	20.68	20.57	20.45	20.45			
5	QPSK	25	0	20.29	20.51	20.53	20.40	20.49	20.49	21.7	0	
5	16QAM	1	0	20.46	20.35	20.47	20.35	20.45	20.45			
5	16QAM	1	12	20.34	20.48	20.24	20.41	20.36	20.36			
5	16QAM	1	24	20.39	20.44	20.28	20.3	20.29	20.29	21.7	0	
5	16QAM	12	0	20.41	20.57	20.41	20.33	20.44	20.44			
5	16QAM	12	7	20.41	20.57	20.39	20.48	20.36	20.36			
5	16QAM	12	13	20.67	20.61	20.42	20.6	20.62	20.62	21.7	0	
5	16QAM	25	0	20.43	20.5	20.39	20.34	20.31	20.31			
5	16QAM	1	12	20.2	20.42	20.22	20.09	20.32	20.32	21.7	0	
5	16QAM	1	24	20.24	20.42	20.17	20.19	20.24	20.24			
5	16QAM	1	24	20.2	20.46	20.16	20.26	20.19	20.19			
5	16QAM	12	0	20.23	20.6	20.44	20.36	20.1	20.1	21.7	0	
5	16QAM	12	7	20.31	20.59	20.41	20.41	20.34	20.34			
5	16QAM	12	13	20.34	20.62	20.5	20.52	20.45	20.45	21.7	0	
5	16QAM	25	0	20.27	20.52	20.41	20.37	20.28	20.38			
5	16QAM	25	12	20.1	20.44	20.46	20.4	20.24	20.24			
5	256QAM	1	0	19.69	19.57	19.52	19.22	19.22	19.22	20.7	1	
5	256QAM	1	24	19.81	19.62	19.31	19.28	19.36	19.36			
5	256QAM	12	0	19.80	19.43	19.44	19.24	19.24	19.249			



Band 2_Ant 2									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Frac.	Power Med Ch./Frac.	Power High Ch./Frac.	Time-up int. (dB)	MPR (dB)	
Channel									
20	QPSK	1	0	22.49	22.54	22.59			24
20	QPSK	1	49	22.27	22.47	22.33			
20	QPSK	1	99	22.39	22.32	22.34			23
20	QPSK	50	24	21.31	21.51	21.41			
20	QPSK	50	50	21.50	21.38	21.25			23
20	QPSK	100	0	21.35	21.48	21.57			
20	16QAM	1	49	21.56	21.66	21.57			23
20	16QAM	1	99	21.81	21.59	21.58			
20	16QAM	50	0	20.26	20.59	20.23			22
20	16QAM	50	24	20.37	20.31	20.26			
20	16QAM	100	0	20.38	20.46	20.31			22
20	16QAM	100	50	20.37	20.47	20.39			
20	64QAM	1	49	20.44	20.50	20.42			21
20	64QAM	50	0	19.28	19.55	19.23			
20	64QAM	50	24	19.37	19.50	19.33			21
20	64QAM	100	0	19.38	19.45	19.34			
20	256QAM	1	0	17.61	17.64	17.65			19
20	256QAM	1	49	17.60	17.58	17.64			
20	256QAM	1	99	17.48	17.51	17.62			19
20	256QAM	50	0	17.51	17.49	17.59			
20	256QAM	50	24	17.36	17.48	17.51			19
20	256QAM	50	50	17.48	17.38	17.54			
Channel									
Frequency [MHz]	18875	18880	18915	Time-up int. (dB)	MPR (dB)				
15	QPSK	1	0	22.52	22.52	22.37			24
15	QPSK	1	37	22.18	22.42	22.27			
15	QPSK	1	74	22.26	22.33	22.27			23
15	QPSK	36	0	21.29	21.50	21.23			
15	QPSK	36	20	21.29	21.52	21.43			23
15	QPSK	36	50	21.46	21.30	21.26			
15	16QAM	1	0	21.38	21.42	21.36			23
15	16QAM	1	37	21.52	21.71	21.57			
15	16QAM	1	74	21.61	21.63	21.57			23
15	16QAM	36	0	20.17	20.50	20.19			
15	16QAM	36	20	20.33	20.52	20.36			22
15	16QAM	36	50	20.52	20.50	20.53			
15	16QAM	75	0	20.33	20.37	20.38			22
15	16QAM	75	20	20.56	20.57	20.56			
15	16QAM	75	50	20.56	20.57	20.56			22
15	16QAM	1	0	20.56	20.57	20.56			
15	16QAM	1	74	20.56	20.52	20.53			22
15	16QAM	36	0	19.31	19.37	19.33			
15	16QAM	36	20	19.37	19.35	19.31			21
15	16QAM	36	50	19.42	19.31	18.17			
15	16QAM	75	0	18.40	18.41	18.34			19
15	16QAM	75	20	18.40	18.41	18.34			
15	256QAM	1	37	17.48	17.56	17.54			19
15	256QAM	1	74	17.48	17.38	17.50			
15	256QAM	36	0	17.44	17.48	17.53			19
15	256QAM	36	20	17.26	17.42	17.37			
15	256QAM	36	50	17.22	17.37	17.48			19
15	256QAM	75	0	17.46	17.51	17.47			
15	256QAM	75	20	17.48	17.38	17.54			
Channel									
Frequency [MHz]	18880	18885	18950	Time-up int. (dB)	MPR (dB)				
10	QPSK	1	0	22.51	22.51	22.41			24
10	QPSK	1	25	22.33	22.42	22.26			
10	QPSK	1	50	22.41	22.31	22.31			23
10	QPSK	25	0	21.31	21.57	21.31			
10	QPSK	25	12	21.33	21.51	21.37			23
10	QPSK	25	25	21.42	21.36	21.17			
10	QPSK	50	0	21.27	21.39	21.36			23
10	16QAM	1	0	22.01	21.94	21.80			
10	16QAM	1	25	21.60	21.83	21.53			23
10	16QAM	1	49	21.52	21.58	21.58			
10	16QAM	25	0	20.18	20.64	20.22			22
10	16QAM	25	12	20.32	20.41	20.34			
10	16QAM	25	25	20.49	20.34	20.25			22
10	16QAM	50	0	20.29	20.45	20.26			
10	16QAM	50	25	20.68	20.49	20.59			22
10	16QAM	1	49	20.52	20.53	20.37			
10	16QAM	1	25	20.32	19.49	19.25			21
10	16QAM	25	12	19.39	19.40	19.26			
10	16QAM	25	25	19.48	19.35	19.20			19
10	16QAM	50	0	19.36	19.36	19.37			
10	256QAM	1	0	17.52	17.55	17.50			19
10	256QAM	1	49	17.44	17.50	17.51			
10	256QAM	1	99	17.43	17.37	17.52			19
10	256QAM	25	0	17.39	17.46	17.47			
10	256QAM	25	12	17.24	17.48	17.42			19
10	256QAM	25	25	17.32	17.38	17.54			
10	256QAM	50	0	17.40	17.47	17.49			19
10	256QAM	50	25	17.40	17.47	17.49			
Channel									
Frequency [MHz]	18885	18890	18975	Time-up int. (dB)	MPR (dB)				
5	QPSK	1	0	22.48	22.47	22.42			24
5	QPSK	1	12	22.28	22.46	22.27			
5	QPSK	1	25	22.25	22.24	22.30			23
5	QPSK	12	0	21.23	21.63	21.26			
5	QPSK	12	7	21.24	21.52	21.46			23
5	QPSK	12	14	21.51	21.38	21.19			
5	QPSK	25	0	21.34	21.48	21.31			23
5	16QAM	1	0	21.65	21.72	21.60			
5	16QAM	1	12	21.48	21.68	21.61			23
5	16QAM	1	24	21.59	21.57	21.50			
5	16QAM	12	0	20.31	20.55	20.21			22
5	16QAM	12	7	20.37	20.54	20.34			
5	16QAM	12	14	20.46	20.30	20.20			22
5	16QAM	25	0	20.37	20.42	20.36			
5	16QAM	25	7	20.37	20.46	20.46			22
5	64QAM	1	12	20.39	20.44	20.45			
5	64QAM	1	24	20.27	19.57	19.26			21
5	64QAM	12	0	19.38	19.40	19.37			
5	64QAM	12	7	19.38	19.40	19.37			21
5	64QAM	12	14	19.52	19.31	19.24			
5	64QAM	25	0	19.42	19.39	19.31			19
5	256QAM	1	0	17.58	17.57	17.53			
5	256QAM	1	12	17.55	17.54	17.54			19
5	256QAM	1	24	17.46	17.44	17.47			
5	256QAM	12	0	17.45	17.41	17.46			19
5	256QAM	12	7	17.25	17.47	17.40			
5	256QAM	12	14	17.25	17.38	17.39			19
5	256QAM	25	0	17.41	17.47	17.49			
5	256QAM	25	12	17.41	17.47	17.49			
Channel									
Frequency [MHz]	18890	18895	18975	Time-up int. (dB)	MPR (dB)				
3	QPSK	1	0	22.53	22.49	22.37			24
3	QPSK	1	9	22.27	22.43	22.29			
3	QPSK	1	18	22.27	22.43	22.38			23
3	QPSK	8	0	21.31	21.54	21.21			
3	QPSK	8	4	21.27	21.44	21.26			23
3	QPSK	8	9	21.52	21.36	21.25			
3	QPSK	15	0	21.40	21.51	21.33			23
3	16QAM	1	0	21.64	21.61	21.60			
3	16QAM	1	9	21.48	21.68	21.61			23
3	16QAM	1	18	21.59	21.57	21.50			
3	16QAM	8	0	20.37	20.56	20.34			22
3	16QAM	8	9	20.32	20.49	20.34			
3	16QAM	15	0	20.37	20.41	20.18			22
3	16QAM	15	9	20.36	20.36	20.22			
3	64QAM	1	8	20.49	20.53	20.38			22
3	64QAM	1	18	20.51	20.52	20.44			
3	64QAM	8	0	19.32	19.63	19.16			21
3	64QAM	8	9	19.29	19.51	19.36			
3	64QAM	15	0	19.32	19.51	19.36			21
3	64QAM	15	9	19.41	19.44	19.37			
3	256QAM	1	0	17.53	17.62	17.57			19
3	256QAM	1	9	17.47	17.48	17.54			
3	256QAM	8	0	17.44	17.48	17.54			19
3	256QAM	8	9	17.47	17.48	17.54			
3	256QAM	15	0	17.42	17.47	17.49			19
3	256QAM	15	9	17.37	17.39	17.53			
3	256QAM	15	0	17.42	17.49	17.50			19
3	256QAM	15	9	17.50	17.41	17.43			

Default/Full Power

Band 2_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Frac.	Power Med Ch./Frac.	Power High Ch./Frac.	Time-up int. (dB)	MPR (dB)	
20	QPSK	1	0	22.03	22.73	22.81			
20	QPSK	1	49	22.02	22.72	22.80			24
20	QPSK	50	0	21.62	21.65	21.58			
20	QPSK	50	49	21.63	21.66	21.59			23
20	QPSK	50	99	21.51	21.51	21.57			23
20	QPSK	100	0	21.55	21.60	21.57			
20	QPSK	100	49	21.56	21.61	21.57			23
20	QPSK	1	99	21.52	21.54	21.60			
20	QPSK	50	99	21.48	21.50	21.56			22
20	QPSK	50	24	20.55	20.54	20.52			2
20	QPSK	50	50	20.60	20.54	20.50			
20	QPSK	50	75	20.62	20.55	20.52			
20	QPSK	1	0	20.67	20.70	20.75			
20	QPSK	1	49	20.68	20.69	20.69			22
20	QPSK	50	0	19.73	19.74	19.73			
20	QPSK	50	24	18.68	18.71	18.72			21
20	QPSK	50	49	18.77	18.77	18.75			3
20	QPSK	100	0	18.87	18.77	18.71			
20	25QPSK	1	0	17.51	18.08	18.40			
20	25QPSK	1	49	17.48	17.98	18.27			19
20	25QPSK	1	99	18.07	18.77	18.14			
20	25QPSK	50	1	17.85	18.00	18.24			
20	25QPSK	50	1	17.88	18.03	18.27			
20	25QPSK	50	50	17.40	17.58	17.86			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	17.37	17.55	17.83			
20	25QPSK	50	99	1					



Band 5_Ant 0														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20450	Power Middle Ch. Freq. 20500	Power High Ch. Freq. 20600	Turn-up time (min)	MPR (dB)						
Channel														
Frequency [MHz]														
10	QPSK	1	0	24.60	24.64	24.59	25.7	0						
10	QPSK	1	25	24.54	24.37	24.54								
10	QPSK	49	24	24.58	24.38	24.58								
10	QPSK	25	0	23.80	23.88	23.80								
10	QPSK	25	12	23.41	23.59	23.46								
10	QPSK	25	25	23.34	23.50	23.41	24.7	1						
10	16QAM	1	0	23.92	23.48	23.81								
10	16QAM	1	25	23.80	23.42	23.73								
10	16QAM	25	0	22.53	22.51	22.48								
10	16QAM	25	12	22.45	22.27	22.45								
10	16QAM	25	25	22.43	22.54	22.35	23.7	2						
10	64QAM	1	25	22.37	22.47	22.50								
10	64QAM	1	49	22.47	22.72	22.52								
10	64QAM	25	0	21.48	21.47	21.49								
10	64QAM	25	12	21.31	21.52	21.39								
10	256QAM	1	0	19.94	20.04	19.93	22.7	3						
10	256QAM	1	25	19.82	19.87	19.86								
10	256QAM	1	49	20.44	19.85	19.85								
10	256QAM	25	0	19.79	19.86	19.73								
10	256QAM	25	12	19.78	19.88	19.77								
10	256QAM	25	25	19.83	19.89	19.84								
10	256QAM	50	0	19.83	19.89	19.84								
Channel														
Frequency [MHz]														
5	QPSK	1	0	24.43	24.45	24.41	25.7	0						
5	QPSK	1	12	24.45	24.31	24.40								
5	QPSK	1	24	24.53	24.39	24.46								
5	QPSK	12	0	23.37	23.52	23.42								
5	QPSK	12	7	23.34	23.39	23.39								
5	QPSK	12	14	23.36	23.32	23.35	24.7	1						
5	QPSK	25	0	23.31	23.47	23.37								
5	16QAM	1	0	23.87	23.44	23.75								
5	16QAM	1	49	23.74	23.32	23.81								
5	16QAM	1	24	23.74	23.55	23.86								
5	16QAM	12	0	22.41	22.44	22.33	23.7	2						
5	16QAM	12	7	22.38	22.44	22.33								
5	16QAM	12	14	22.30	22.47	22.30								
5	16QAM	25	0	22.39	22.36	22.47								
5	16QAM	25	12	22.32	22.35	22.43								
5	64QAM	1	12	22.23	22.75	22.48	23.7	2						
5	64QAM	1	24	22.47	22.60	22.43								
5	64QAM	12	0	22.42	22.43	22.38								
5	64QAM	12	7	21.20	21.01	21.40								
5	64QAM	12	14	21.24	21.45	21.27								
5	256QAM	1	0	19.83	19.87	19.84	20.7	5						
5	256QAM	1	12	19.82	19.81	19.89								
5	256QAM	1	24	19.83	19.84	19.71								
5	256QAM	12	0	19.87	19.81	19.80								
5	256QAM	12	7	19.80	19.77	19.78								
5	256QAM	12	14	19.82	19.75	19.71	20.7	5						
5	256QAM	25	0	19.68	19.77	19.71								
Channel														
Frequency [MHz]														
3	QPSK	1	0	24.53	24.47	24.42	25.7	0						
3	QPSK	1	8	24.48	24.28	24.32								
3	QPSK	1	16	24.55	24.35	24.40								
3	QPSK	8	0	23.29	23.42	23.43								
3	QPSK	8	4	23.27	23.37	23.31								
3	QPSK	8	12	23.32	23.43	23.38	24.7	1						
3	QPSK	16	0	23.36	23.42	23.36								
3	16QAM	1	0	23.83	23.41	23.75								
3	16QAM	1	16	23.83	23.38	23.80								
3	16QAM	1	14	23.88	23.28	23.60								
3	16QAM	8	0	22.47	22.51	22.33	23.7	2						
3	16QAM	8	4	22.33	22.38	22.32								
3	16QAM	8	7	22.32	22.34	22.33								
3	16QAM	15	0	22.32	22.42	22.48								
3	64QAM	1	8	22.29	22.61	22.47								
3	64QAM	1	14	22.37	22.62	22.43	22.7	3						
3	64QAM	1	20	21.30	21.49	21.35								
3	64QAM	8	4	21.28	21.43	21.38								
3	256QAM	1	0	19.84	19.86	19.85								
3	256QAM	1	8	19.73	19.83	19.84								
3	256QAM	1	16	19.80	19.82	19.80	20.7	5						
3	256QAM	8	0	19.87	19.72	19.86								
3	256QAM	8	7	19.83	19.74	19.83								
3	256QAM	15	0	19.79	19.81	19.75								
Channel														
Frequency [MHz]														
1.4	QPSK	1	0	24.48	24.06	24.41	25.7	0						
1.4	QPSK	1	3	24.44	24.30	24.45								
1.4	QPSK	1	5	24.48	24.20	24.44								
1.4	QPSK	3	0	24.35	24.48	24.31								
1.4	QPSK	3	1	24.35	24.23	24.30								
1.4	QPSK	3	1	24.45	24.10	24.34	24.7	1						
1.4	QPSK	6	0	23.37	23.46	23.30								
1.4	16QAM	1	0	23.90	23.43	23.71								
1.4	16QAM	1	3	23.76	23.38	23.73								
1.4	16QAM	1	5	23.62	23.30	23.57								
1.4	16QAM	3	0	23.82	23.30	23.66	24.7	1						
1.4	16QAM	3	1	23.63	23.30	23.66								
1.4	16QAM	3	3	23.73	23.38	23.58								
1.4	16QAM	6	0	22.37	22.46	22.43								
1.4	64QAM	1	3	22.23	22.11	22.51								
1.4	64QAM	1	3	22.32	22.57	22.33	23.7	2						
1.4	64QAM	1	5	22.49	22.67	22.47								
1.4	64QAM	3	0	22.22	21.93	22.33								
1.4	64QAM	3	1	22.09	22.52	22.23								
1.4	64QAM	3	1	21.29	21.39	21.41								
1.4	256QAM	1	0	19.84	19.88	19.83	20.7	5						
1.4	256QAM	1	3	19.76	19.83	19.85								
1.4	256QAM	1	5	19.82	19.85	19.74								
1.4	256QAM	3	0	19.80	19.78	19.87								
1.4	256QAM	3	1	19.85	19.81	19.80								
1.4	256QAM	3	3	19.85	19.73	19.87	20.7	5						
1.4	256QAM	6	0	19.75	19.69	19.70								
Channel														
Frequency [MHz]														

Band 5_Ant 1															
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20450	Power Middle Ch. Freq. 20500	Power High Ch. Freq. 20550	Total BW [MHz]	MPR [dB]							
Channel															
10	QPSK	1	0	24.51	24.52	24.54	25.7	0							
10	QPSK	1	25	24.54	24.56	24.55									
10	QPSK	1	50	24.57	24.58	24.54									
10	QPSK	25	0	23.63	23.72	23.65									
10	QPSK	25	12	23.65	23.83	23.68									
10	QPSK	25	25	23.68	23.84	23.70	24.7	1							
10	QPSK	50	0	23.70	23.81	23.70									
10	QPSK	50	25	23.80	23.80	24.21									
10	QPSK	1	0	23.83	23.84	23.87									
10	QPSK	1	49	23.86	23.90	24.02									
10	QPSK	25	0	23.93	24.04	23.97	23.7	2							
10	QPSK	25	12	23.96	24.08	23.98									
10	QPSK	25	25	23.98	24.09	24.07									
10	QPSK	50	0	24.09	24.09	24.50									
10	QPSK	50	25	24.09	24.09	24.50									
10	QPSK	1	25	22.77	22.60	22.65	23.7	2							
10	QPSK	1	49	22.81	22.59	22.70									
10	QPSK	25	0	22.84	22.98	22.91									
10	QPSK	25	12	22.86	23.04	22.93									
10	QPSK	25	25	22.88	23.03	23.03									
10	QPSK	50	0	23.14	23.02	23.47	22.7	3							
10	QPSK	50	25	23.18	23.07	23.47									
10	QPSK	1	0	23.22	23.27	23.27									
10	QPSK	1	25	23.24	23.26	23.26									
10	QPSK	25	0	19.76	19.90	19.70									
10	QPSK	25	12	19.85	19.96	19.89	20.7	5							
10	QPSK	25	25	19.88	19.98	19.98									
10	QPSK	50	0	19.94	19.88	20.00									
10	QPSK	50	25	19.93	19.89	19.78									
Channel												24.49	24.59	24.59	24.59
Frequency [MHz]															
5	QPSK	1	0	24.41	24.48	24.39	25.7	0							
5	QPSK	1	12	24.43	24.53	24.46									
5	QPSK	1	25	24.47	24.57	24.48									
5	QPSK	12	0	23.50	23.57	23.62									
5	QPSK	12	12	23.43	23.48	23.36									
5	QPSK	12	25	23.46	23.56	23.44	24.7	1							
5	QPSK	25	0	23.38	23.45	23.40									
5	QPSK	25	12	23.39	23.73	24.02									
5	QPSK	25	25	23.40	23.67	23.68									
5	QPSK	1	24	23.65	23.87	23.80									
5	QPSK	12	0	22.65	22.48	22.45	24.7	1							
5	QPSK	12	12	22.67	22.48	22.47									
5	QPSK	12	25	22.37	22.56	22.62									
5	QPSK	25	0	22.35	22.59	22.38									
5	QPSK	25	12	22.41	22.67	22.67									
5	QPSK	1	12	22.67	22.46	22.47	23.7	2							
5	QPSK	1	24	22.76	22.47	22.47									
5	QPSK	12	7	21.49	21.40	21.47									
5	QPSK	12	18	21.43	21.48	21.37									
5	QPSK	12	25	21.46	21.52	21.53									
5	QPSK	25	0	19.93	20.08	19.94	22.7	3							
5	QPSK	25	12	19.80	19.93	19.96									
5	QPSK	25	25	19.85	19.93	19.97									
5	QPSK	1	12	19.81	19.78	19.71									
5	QPSK	1	24	19.81	19.78	19.71									
5	QPSK	12	7	18.90	19.01	19.02	20.7	5							
5	QPSK	12	18	18.93	19.01	19.01									
5	QPSK	25	0	18.87	19.00	19.15									
Channel												24.41	24.50	24.42	24.42
Frequency [MHz]															
3	QPSK	1	0	24.41	24.47	24.47	25.7	0							
3	QPSK	1	8	24.42	24.51	24.38									
3	QPSK	1	16	24.43	24.52	24.40									
3	QPSK	8	0	23.47	23.58	23.53									
3	QPSK	8	8	23.40	23.40	23.46									
3	QPSK	8	16	23.43	23.54	23.49	24.7	1							
3	QPSK	15	0	23.47	23.56	23.54									
3	QPSK	15	8	23.58	23.70	24.03									
3	QPSK	15	16	23.63	23.83	24.03									
3	QPSK	1	14	23.80	23.81	23.85									
3	QPSK	8	0	22.69	22.51	22.46	23.7	2							
3	QPSK	8	8	22.72	22.52	22.52									
3	QPSK	8	16	22.48	22.54	22.53									
3	QPSK	15	0	22.43	22.48	22.35									
3	QPSK	15	8	22.48	22.48	22.38									
3	QPSK	1	14	22.69	22.41	22.56	23.7	2							
3	QPSK	1	28	22.72	22.48	22.56									
3	QPSK	8	4	21.43	21.37	21.40									
3	QPSK	8	7	21.48	21.51	21.42									
3	QPSK	8	15	21.48	21.45	21.45									
3	QPSK	1	0	19.92	20.05	19.98	20.7	5							
3	QPSK	1	8	19.86	19.86	19.86									
3	QPSK	1	16	19.86	19.86	19.86									
3	QPSK	8	0	19.66	19.76	19.74									
3	QPSK	8	8	19.77	19.79	19.79									
3	QPSK	15	0	19.77	19.79	19.79	20.7	5							
3	QPSK	15	8	19.77	19.79	19.79									
3	QPSK	15	16	19.74	19.84	19.71									
Channel												24.67	24.50	24.63	24.63
Frequency [MHz]															
14	QPSK	1	0	24.45	24.49	24.47	25.7	0							
14	QPSK	1	8	24.46	24.43	24.50									
14	QPSK	1	16	24.47	24.38	24.49									
14	QPSK	8	0	24.36	24.44	24.49									
14	QPSK	8	8	24.28	24.30	24.37									
14	QPSK	8	16	24.35	24.33	24.37	24.7	1							
14	QPSK	15	0	24.38	24.34	24.48									
14	QPSK	15	8	24.40	24.53	24.48									
14	QPSK	1	0	23.96	23.74	23.96									
14	QPSK	1	8	23.76	23.84	23.83									
14	QPSK	3	0	23.78	23.84	23.83	24.7	1							
14	QPSK	3	8	23.81	23.81	23.78									
14	QPSK	3	16	23.79	23.77	23.78									
14	QPSK	15	0	23.74	23.65	24.04									
14	QPSK	15	8	23.68	23.68	23.76									
14	QPSK	1	0	22.65	22.46	22.77	23.7	2							
14	QPSK	1	8	22.68	22.46	22.77									
14	QPSK	1	16	22.48	22.48	22.47									
14	QPSK	3	0	22.73	22.48	22.47									
14	QPSK	3	8	22.73	22.48	22.47									
14	QPSK	1	0	22.56	22.30	22.43	23.7	2							
14	QPSK	1	8	22.73	22.41	22.41									
14	QPSK	1	16	22.30	22.40	22.41									
14	QPSK	15	0	22.00	22.00	22.00									
14	QPSK	15	8	19.83	19.87	19.80									
14	QPSK	3	0	19.87	19.87	19.87	20.7	5							
14	QPSK	3	8	19.88	19.88	19.87									
14	QPSK	3	16	19.85	19.88	19.79									
14	QPSK	15	0	19.73	19.86	19.86									
14	QPSK	15	8	19.73	19.86	19.86									



Band 7_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20960	Power High Ch. Freq. 21160	Power Low Ch. Freq. 21360	Power High Ch. Freq. 21560	Turn-up (dB)	MRR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.57	23.53	23.48			
20	QPSK	1	49	23.51	23.46	23.38		24.5	0
20	QPSK	59		23.59	23.49	23.43			
20	QPSK	50	50	23.53	23.44				
20	QPSK	50	24	22.51	22.45	22.35		23.5	1
20	QPSK	50		22.39	22.47	22.4			
20	QPSK	100	0	22.43	22.47	22.35			
20	16QAM	1	0	22.59	22.49	22.5			
20	16QAM	1	49	22.57	22.44	22.34		23.5	1
20	16QAM	1	59	22.59	22.5	22.7			
20	16QAM	50	0	21.19	21.43	21.37			
20	16QAM	50	24	21.24	21.52	21.38		22.5	2
20	16QAM	100	0	21.24	21.52	21.38			
20	16QAM	1	49	21.38	21.55	21.41		22.5	2
20	16QAM	1	59	21.48	21.57	21.67			
20	16QAM	100	0	21.38	21.55	21.34			
20	16QAM	50	24	20.17	20.39	20.33		21.5	3
20	16QAM	50	50	20.32	20.47	20.41			
20	25QAM	1	0	18.05	18.35	18.15			
20	25QAM	1	49	18.18	18.52	18.29		19.5	5
20	25QAM	1	59	18.32	18.51	18.37			
20	25QAM	50	0	18.15	18.30	18.19			
20	25QAM	50	24	18.12	18.35	18.24		19.5	5
20	25QAM	50	50	18.33	18.39	18.35			
20	25QAM	100	0	18.17	18.27	18.19			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.55	23.51	23.5			
15	QPSK	1	37	23.52	23.4	23.37		24.5	0
15	QPSK	1	74	23.52	23.5	23.34			
15	QPSK	36	0	22.45	22.49	22.32			
15	QPSK	36	20	22.39	22.36	22.35		23.5	1
15	QPSK	36	59	22.39	22.49	22.35			
15	16QAM	1	0	22.4	22.41	22.34			
15	16QAM	1	0	22.54	22.36	22.51		23.5	1
15	16QAM	1	37	22.52	22.42				
15	16QAM	1	74	22.51	22.52	22.5			
15	16QAM	36	0	21.58	21.52	21.38		22.5	2
15	16QAM	36	20	21.52	21.5	21.3			
15	16QAM	36	59	21.25	21.5	21.3			
15	16QAM	75	0	21.11	21.29	21.23			
15	16QAM	1	21	21.26	21.31	21.42			
15	16QAM	1	37	21.34	21.44	21.43		22.5	2
15	16QAM	1	74	21.43	21.52	21.6			
15	16QAM	36	20	20.34	20.34	20.3			
15	16QAM	36	20	20.11	20.33	20.27		21.5	3
15	16QAM	36	59	20.2	20.34	20.28			
15	25QAM	1	0	18.06	18.29	18.23			
15	25QAM	1	0	18.04	18.27	18.19		19.5	5
15	25QAM	1	37	18.17	18.24	18.30			
15	25QAM	1	49	18.32	18.35	18.27			
15	25QAM	36	0	18.17	18.35	18.13		19.5	5
15	25QAM	36	20	18.03	18.31	18.23			
15	25QAM	36	59	18.28	18.30	18.15			
15	25QAM	75	0	18.17	18.28	18.19			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.47	23.51	23.49			
10	QPSK	1	25	23.44	23.37	23.26		24.5	0
10	QPSK	1	49	23.54	23.51	23.47			
10	QPSK	25	0	22.42	22.47	22.35			
10	QPSK	25	12	22.47	22.37	22.35		23.5	1
10	QPSK	50	0	22.42	22.36	22.3			
10	16QAM	1	0	22.53	22.44	22.37		23.5	1
10	16QAM	1	49	22.49	22.35	22.28			
10	16QAM	1	49	22.69	22.66	22.7			
10	16QAM	25	0	21.13	21.38	21.33		22.5	2
10	16QAM	25	12	21.21	21.34	21.29			
10	16QAM	25	25	21.26	21.45	21.33			
10	16QAM	50	0	21.12	21.27	21.24			
10	16QAM	1	0	21.38	21.28	21.37			
10	16QAM	1	25	21.25	21.5	21.29		22.5	2
10	16QAM	1	49	21.41	21.53	21.62			
10	16QAM	25	0	20.08	20.38	20.39			
10	16QAM	25	12	20.08	20.39	20.28		21.5	3
10	16QAM	50	0	20.07	20.33	20.28			
10	25QAM	1	0	18.09	18.36	18.24			
10	25QAM	1	25	18.40	18.29	18.16		19.5	5
10	25QAM	1	49	18.31	18.39	18.27			
10	25QAM	25	0	18.21	18.52	18.12			
10	25QAM	25	12	18.07	18.31	18.24		19.5	5
10	25QAM	25	25	18.36	18.52	18.47			
10	25QAM	50	0	18.14	18.28	18.19			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.4	23.57	23.4			
5	QPSK	1	12	23.5	23.48	23.38		24.5	0
5	QPSK	1	44	23.61	23.43	23.31			
5	QPSK	12	0	22.48	22.46	22.38			
5	QPSK	12	7	22.42	22.43	22.23		23.5	1
5	QPSK	12	13	22.25	22.4	22.4			
5	QPSK	25	0	22.44	22.46	22.37			
5	QPSK	1	0	22.5	22.35	22.48		23.5	1
5	16QAM	1	0	22.46	22.63	22.48			
5	16QAM	1	24	22.59	22.71	22.61		23.5	2
5	16QAM	12	0	21.14	21.38	21.32			
5	16QAM	12	7	21.23	21.29	21.32			
5	16QAM	12	13	21.34	21.4	21.27			
5	16QAM	25	0	21.19	21.27	21.2			
5	16QAM	1	0	21.3	21.29	21.37			
5	16QAM	1	12	21.31	21.42	21.42		22.5	2
5	16QAM	1	24	21.49	21.47	21.56			
5	16QAM	12	0	20.1	20.42	20.3			
5	16QAM	12	7	20.15	20.39	20.21		21.5	3
5	16QAM	25	0	20.19	20.38	20.36			
5	25QAM	1	0	18.11	18.39	18.05			
5	25QAM	1	0	18.09	18.34	18.26		19.5	5
5	25QAM	1	24	18.32	18.53	18.17			
5	25QAM	12	0	18.17	18.25	18.20			
5	25QAM	12	7	18.06	18.34	18.26		19.5	5
5	25QAM	12	13	18.31	18.53	18.15			
5	25QAM	25	0	18.18	18.19	18.24			

Band 7_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20960	Power High Ch. Freq. 21160	Power Low Ch. Freq. 21360	Power High Ch. Freq. 21560	Turn-up (dB)	MRR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.43	23.60	23.58			
20	QPSK	1	49	23.41	23.57	23.52		25	0
20	QPSK	59		23.42	23.58	23.53			
20	QPSK	50	0	22.58	22.75	22.64			
20	QPSK	50	24	22.45	22.70	22.67		24	1
20	QPSK	50		22.51	22.73	22.71			
20	QPSK	100	0	22.57	22.73	22.71			
20	16QAM	1	0	22.68	22.69	22.68			
20	16QAM	1	49	22.68	22.61	22.49		24	1
20	16QAM	1	59	22.75	22.97	23.0			
20	16QAM	50	0	21.28	21.75	21.75			
20	16QAM	50	24	21.21	21.67	21.63		23	2
20	16QAM	100	0	21.28	21.75	21.81			
20	16QAM	1	49	21.25	21.80	21.82		23	2
20	16QAM	1	59	21.67	21.87	22.05			
20	16QAM	100	0	21.21	21.43	21.38			
20	16QAM	50	24	20.45	20.85	20.75		22	3
20	16QAM	50	50	20.64	20.78	20.82			
20	25QAM	1	0	18.36	18.65	18.58			
20	25QAM	1	49	18.39	18.47	18.55		20	5
20	25QAM	1	59	18.52	18.57	18.62			
20	25QAM	50	0	18.41	18.58	18.62			
20	25QAM	50	24	18.34	18.54	18.64		20	5
20	25QAM	50	50	18.57	18.48	18.58			
20	25QAM	100	0	18.42	18.51	18.43			
Channel									
Frequency (MHz)									
15	QPSK	1	0	23.39	23.57	23.5			
15	QPSK	1	37	23.4	23.42	23.39		25	0
15	QPSK	1	74	23.33	23.43	23.48			
15	QPSK	36	0	22.57	22.65	22.49			
15	QPSK	36	20	22.31	22.69	22.62		24	1
15	QPSK	36	59	22.34	23.41	23.32			
15	16QAM	1	0	22.5	22.58	22.59			
15	16QAM	1	3	22.68	22.52	22.86		24	1
15	16QAM	1	37	22.52	22.62	22.63			
15	16QAM	1	74	22.73	22.83	22.87			
15	16QAM	36	39	21.46	21.58	21.78		23	2
15	16QAM	75	0	21.45	21.49	21.61			
15	16QAM	1	59	21.27	21.68	21.78		23	2
15	16QAM	1	37	21.5	21.81	21.81			
15	16QAM	1	74	21.49	21.58	21.67			
15	16QAM	36	20	20.3	20.55	20.77		22	3
15	16QAM	36	59	20.54	20.78	20.75			
15	16QAM	36	75	20.42	20.52	20.64		20	5
15	25QAM	1	0	18.19	18.49	18.53			
15	25QAM	1	37	18.23	18.32	18.52			
15	25QAM	1	74	18.37	18.48	18.58			
15	25QAM	36	0	18.26	18.42	18.56			
15	25QAM	36	20	18.18	18.33	18.48		20	5
15	25QAM	36	59	18.48	18.48	18.48			
15	25QAM	75	0	18.44	18.53	18.47			
Channel									
Frequency (MHz)									
10	QPSK	1	0	23.34	23.53	23.5			
10	QPSK	1	25	23.42	23.54	23.53			
10	QPSK	1	49	23.31	23.41	23.41		25	0
10	QPSK	25	0	22.58	22.63	22.51			
10	QPSK	25	12	22.29	22.68	22.65		24	1
10	QPSK	25	37	22.51	22.6	22.61			
10	QPSK	50	0	22.39	22.65	22.61			
10	QPSK	1	0	22.65	22.67	22.68			
10	QPSK	1	25	22.33	22.73	22.7		24	1
10	QPSK	1	49	22.71	22.35	22.95			
10	QPSK	25	0	21.29	21.68	21.63			
10	QPSK	25	12	21.5	21.6	21.6		23	2
10	QPSK	25	37	21.59	21.75	21.69			
10	QPSK	50	0	21.27	21.63	21.63			
10	QPSK	50	12	21.4	21.5	21.5		23	2
10	QPSK	1	25	21.42	21.71	21.71			
10	QPSK	1	49	21.62	21.84	21.87			
10	QPSK	25	37	21.67	21.78	21.78		22	3
10	QPSK	25	50	20.66	20.87	20.73			
10	QPSK	12	0	20.87	20.94	20.94			
10	25QAM	1	0	18.20	18.26	18.26			
10	25QAM	1	25	18.38	18.46	18.54			
10	25QAM	1	49	18.36	18.44	18.54		20	5
10	25QAM	25	0	18.36	18.45	18.51			
10	25QAM	25	12	18.20	18.38	18.54			
10	25QAM	25	37	18.36	18.45	18.54		20	5
10	25QAM	50	0	18.29	18.53	18.29			
Channel									
Frequency (MHz)									
5	QPSK	1	0	23.39	23.43	23.41			
5	QPSK	1	12	23.31	23.43	23.37			
5	QPSK	1	24	23.26	23.47	23.34			
5	QPSK	12	0	22.5	22.75	22.61			
5	QPSK	12	7	22.3	22.74	22.74			
5	QPSK	12	19	22.52	22.7	22.55			
5	QPSK	25	0	22.22	22.67	22.58			
5	QPSK	1	0	22.51	22.55	22.68			
5	16QAM	1	12	22.52	22.8	22.79		24	1
5	16QAM	1	24	22.41	22.8	22.79			
5	16QAM	12	0	21.38	21.69	21.67			
5	16QAM	12	19	21.21	21.62	21.75		23	2
5	16QAM	12	37	21.42	21.73	21.73			
5	16QAM	25	0	21.46	21.57	21.73			
5	16QAM	1	12	21.41	21.61	21.71			
5	16QAM	1	24	21.44	21.75	21.7		23	2
5	16QAM	1	24	21.65	21.79	21.87			
5	16QAM	12	7	20.35	20.65	20.72			
5	16QAM	12	19	20.55	20.62	20.68		22	3
5	16QAM	12	37	20.61	20.66	20.66			
5	25QAM	1	0	18.28	18.66	18.66			
5	25QAM	1	12	18.37	18.40	18.47			
5	25QAM	1	24	18.31	18.42	18.56			
5	25QAM	12	5	18.40	18.52	18.56			
5	25QAM	12	7	18.24	18.47	18.55			
5	25QAM	12	19	18.44	18.46	18.47		20	5
5	25QAM	25	0	18.41	18.47	18.57			



Band 66_Ant 0													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low [dBm]	Power High [dBm]	Power Co. [dBm]	Power High [dBm]	Tune-up [dBm]	MPE [dB]				
Channel													
Frequency [MHz]													
20	QPSK	1	0	21.61	21.96	21.73				23	0		
20	QPSK	1	49	21.61	21.96	21.73							
20	QPSK	1	99	21.73	21.76	21.71							
20	QPSK	50	0	20.92	20.95	20.88							
20	QPSK	50	24	20.78	20.93	20.76							
20	QPSK	100	0	20.77	20.88	20.73				22	1		
20	QPSK	100	20	20.77	20.88	20.73							
20	16QAM	1	0	20.68	20.71	20.69							
20	16QAM	1	49	20.67	20.71	20.62							
20	16QAM	1	99	21.02	21.12	21.07							
20	16QAM	50	0	19.73	19.86	19.77				21	2		
20	16QAM	50	24	19.63	19.88	19.76							
20	16QAM	50	50	19.77	19.91	19.73							
20	16QAM	100	0	19.64	19.86	19.85							
20	16QAM	100	24	19.63	19.88	19.76							
20	64QAM	1	49	19.94	20.23	20				21	2		
20	64QAM	1	99	19.85	20.16	19.77							
20	64QAM	50	0	18.7	18.81	18.77							
20	64QAM	50	24	18.64	18.85	18.68							
20	64QAM	50	50	18.68	18.87	18.85							
20	256QAM	1	0	18.59	17.55	18.57				18	5		
20	256QAM	1	49	17.83	17.16	17.08							
20	256QAM	1	99	17.51	17.13	17.08							
20	256QAM	50	0	18.85	18.52	18.68							
20	256QAM	50	24	18.84	18.60	18.75							
20	256QAM	50	50	18.84	18.50	18.62				18	5		
20	256QAM	100	0	18.85	18.51	18.91							
20	256QAM	100	24	18.85	18.52	18.67							
20	256QAM	100	50	18.85	18.52	18.67							
20	256QAM	100	99	18.85	18.52	18.67							
Channel													
Frequency [MHz]													
15	QPSK	1	0	21.5	21.83	21.69				23	0		
15	QPSK	1	37	21.57	21.89	21.69							
15	QPSK	1	74	21.62	21.72	21.72							
15	QPSK	36	0	20.79	20.82	20.82							
15	QPSK	36	20	20.71	20.88	20.89							
15	QPSK	36	20	20.71	20.88	20.89				22	1		
15	QPSK	36	20	20.71	20.88	20.89							
15	QPSK	75	0	20.66	20.83	20.75							
15	QPSK	75	0	20.66	20.83	20.75							
15	16QAM	1	0	20.61	21.09	21.11							
15	16QAM	1	37	20.61	21.09	21.11				22	1		
15	16QAM	1	74	21.1	21.11	20.96							
15	16QAM	36	0	19.67	19.77	19.76							
15	16QAM	36	20	19.62	19.86	19.82							
15	16QAM	36	39	19.68	19.9	19.72							
15	16QAM	75	0	19.65	19.72	19.54				21	2		
15	16QAM	75	20	19.73	20.1	19.72							
15	64QAM	1	37	19.71	20.24	19.87							
15	64QAM	1	74	19.8	19.71	19.68							
15	64QAM	36	20	18.63	18.71	18.77							
15	64QAM	36	20	18.61	18.77	18.69				20	3		
15	64QAM	36	39	18.58	18.77	18.56							
15	64QAM	36	74	18.62	18.87	18.66							
15	256QAM	1	0	17.4	17.16	18.86							
15	256QAM	1	37	16.96	17.12	17.15							
15	256QAM	1	74	16.98	17.14	17.02				18	5		
15	256QAM	36	0	18.86	18.91	18.73							
15	256QAM	36	20	18.83	18.63	18.76							
15	256QAM	36	20	18.83	18.63	18.76							
15	256QAM	36	39	18.81	18.59	18.62							
15	256QAM	75	0	18.9	18.62	18.76				18	5		
15	256QAM	75	20	18.9	18.62	18.76							
15	256QAM	75	39	18.83	18.59	18.66							
15	256QAM	75	74	18.83	18.59	18.66							
15	256QAM	75	99	18.83	18.59	18.66							
Channel													
Frequency [MHz]													
10	QPSK	1	0	21.55	21.83	21.68				23	0		
10	QPSK	1	25	21.51	21.79	21.74							
10	QPSK	1	50	21.62	21.75	21.67							
10	QPSK	25	0	20.83	20.84	20.77							
10	QPSK	25	12	20.77	20.8	20.82							
10	QPSK	25	12	20.77	20.8	20.76				22	1		
10	QPSK	25	12	20.77	20.8	20.76							
10	QPSK	50	0	20.69	20.93	20.87							
10	QPSK	50	0	20.69	20.93	20.87							
10	16QAM	1	0	20.87	21.09	21.15							
10	16QAM	1	25	20.82	21.01	21.02				22	1		
10	16QAM	1	50	21.08	21.08	20.96							
10	16QAM	1	49	21.02	21.08	20.87							
10	16QAM	25	0	19.73	19.86	19.77							
10	16QAM	25	12	19.68	19.82	19.81							
10	16QAM	25	25	19.72	19.81	19.86				21	2		
10	16QAM	25	25	19.72	19.81	19.86							
10	16QAM	25	50	19.85	20.12	19.83							
10	16QAM	25	50	19.85	20.12	19.83							
10	16QAM	25	74	19.78	20.26	19.97							
10	16QAM	25	74	19.78	20.26	19.97				20	3		
10	16QAM	25	99	19.8	19.84	19.73							
10	16QAM	25	99	18.67	18.75	18.75							
10	16QAM	25	12	18.52	18.72	18.69							
10	16QAM	25	25	18.88	18.81	18.65							
10	16QAM	25	50	18.82	18.82	18.77				18	5		
10	16QAM	25	50	18.82	18.82	18.77							
10	256QAM	1	0	17.51	16.95	18.94							
10	256QAM	1	25	16.94	17.12	18.94							
10	256QAM	1	50	17.51	17.12	18.94							
10	256QAM	25	0	18.86	18.60	18.84				18	5		
10	256QAM	25	12	18.74	18.94	18.84							
10	256QAM	25	12	18.82	18.68	18.83							
10	256QAM	25	50	18.83	18.59	18.66							
10	256QAM	25	50	18.83	18.59	18.66							
Channel													
Frequency [MHz]													
5	QPSK	1	0	21.56	21.87	21.65				23	0		
5	QPSK	1	12	21.52	21.81	21.82							
5	QPSK	1	25	21.62	21.75	21.7							
5	QPSK	12	0	20.79	20.83	20.8							
5	QPSK	12	7	20.63	20.88	20.74							
5	QPSK	12	7	20.63	20.88	20.74				22	1		
5	QPSK	12	7	20.63	20.88	20.74							
5	QPSK	25	0	20.65	20.89	20.82							
5	QPSK	25	0	20.65	20.89	20.82							
5	16QAM	1	0	20.87	21.12	21.07							
5	16QAM	1	12	20.86	20.89	20.95				22	1		
5	16QAM	1	25	20.96	21.1	20.95							
5	16QAM	12	0	19.74	19.83	19.73							
5	16QAM	12	7	19.67	19.82	19.74							
5	16QAM	12	13	19.74	19.81	19.74							
5	16QAM	25	0	19.57	19.82	19.74				21	2		
5	16QAM	25	0	19.57	19.82	19.74							
5	16QAM	25	12	19.68	20.03	19.82							
5	16QAM	25	12	19.68	20.03	19.82				20	3		
5	16QAM	25	12	19.68	20.03	19.82							
5	16QAM	25	25	19.73	19.82	19.73							
5	16QAM	25	25	19.73	19.82	19.73				18	5		
5	16QAM	25	50	19.85	19.91	19.76							
5	16QAM	25	50	19.85	19.91	19.76							
5	256QAM	25	0	18.77	18.52	18.76				18	5		
5	256QAM	25	0	18.77	18.52	18.76							
5	256QAM	25	12	18.77	18.52	18.76							
Channel													
Frequency [MHz]													
3	QPSK	1	0	21.48	21.86	21.68						23	0
3	QPSK	1	8	21.59	21.88	21.64							
3	QPSK	1	16	21.73	21.78	21.73							
3	QPSK	8	0	20.79	20.91	20.85							
3	QPSK	8	4	20.7	20.9	20.77							
3	QPSK	16	0	20.65	20.92	20.88				22	1		
3	QPSK	16	0	20.65	20.92	20.88							
3	16QAM	1	0	20.78	21.17	21.07							
3	16QAM	1	8	20.85	21.07	21.07							
3	16QAM	1	16	21.05	21.09	21.04							
3	16QAM	8	0	19.8	19.98	19.94				22	1		
3	16QAM	8	8	19.87	20.07	19.97							
3	16QAM	8	16	19.98	20.07	19.97							
3	16QAM	16	0	18.83	18.9	19.71							
3	16QAM	16	8	18.8	20.18	19.82							
3	16QAM	8	16	19.8	20.05	19.94				21	2		
3	16QAM	8	16	19.8	20.05	19.94							
3	16QAM	16	0	18.67	18.77	18.77							
3	16QAM	16	8	18.67	18.67	18.67							
3	16QAM	16	16	18.63	18.81	18.67							
3	256QAM	1	0	17.84	16.98	18.96				18	5		
3	256QAM	1	8	17.85	16.98	18.96							
3	256QAM	1	16	17.73	17.04	18.96							
3	256QAM	16	0	17.04	17.04	17.02							
3	256QAM	8	0	18.96	18.84	18.85							
3	256QAM	8	8	18.93	18.69	18.85				18	5		
3	256QAM	8	16	18.93	18.6								



Band 38_Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPE (dB)				
Channel												
Frequency [MHz]												
20	QPSK	1	0	22.76	22.89	22.97	24	0				
20	QPSK	1	49	22.52	22.62	22.56						
20	QPSK	1	99	22.60	22.66	22.55						
20	QPSK	50	24	21.71	21.79	21.70						
20	QPSK	50	24	21.62	21.74	21.68						
20	QPSK	100	0	20.65	20.74	20.77	23	1				
20	QPSK	100	0	21.62	21.65	21.52						
20	16QAM	1	0	21.70	21.62	21.79						
20	16QAM	1	49	21.70	22.02	21.75						
20	16QAM	1	99	21.71	21.62	21.70						
20	16QAM	50	0	20.65	20.66	20.69	22	2				
20	16QAM	50	24	20.61	20.76	20.77						
20	16QAM	50	50	20.65	20.63	20.77						
20	16QAM	100	0	20.67	20.60	20.70						
20	64QAM	1	0	20.55	20.72	20.67						
20	64QAM	1	49	20.61	20.69	20.59	22	2				
20	64QAM	1	99	20.56	20.73	20.61						
20	64QAM	50	0	19.80	19.73	19.71						
20	64QAM	50	24	19.80	19.77	19.77						
20	64QAM	100	0	19.58	19.60	19.62						
20	256QAM	1	0	17.81	17.57	17.50	19	5				
20	256QAM	1	49	17.65	17.62	17.58						
20	256QAM	1	99	17.68	17.68	17.47						
20	256QAM	50	24	17.78	17.76	17.70						
20	256QAM	50	50	17.72	17.84	17.60						
20	256QAM	100	0	17.61	17.68	17.52	19	5				
Channel												
Frequency [MHz]												
15	QPSK	1	0	22.73	22.77	22.83	24	0				
15	QPSK	1	49	22.56	22.35	22.44						
15	QPSK	1	74	22.63	22.43	22.49						
15	QPSK	36	0	20.61	20.58	21.56						
15	QPSK	36	25	21.52	21.48	21.68						
15	QPSK	36	39	21.69	21.69	21.66	23	1				
15	QPSK	36	25	21.66	21.62	21.57						
15	16QAM	1	0	21.86	21.97	21.87						
15	16QAM	1	37	21.88	21.82	21.76						
15	16QAM	1	74	21.91	21.73	21.75						
15	16QAM	36	0	20.77	20.54	20.64	22	2				
15	16QAM	36	25	20.75	20.56	20.57						
15	16QAM	36	39	20.91	20.59	20.69						
15	16QAM	75	0	20.62	20.58	20.60						
15	64QAM	1	0	20.61	20.54	20.36						
15	64QAM	1	37	20.61	20.42	20.52	22	2				
15	64QAM	1	74	20.78	20.55	20.63						
15	64QAM	36	0	19.85	19.30	19.84						
15	64QAM	36	25	19.62	19.62	19.64						
15	64QAM	36	39	19.70	19.53	19.74						
15	256QAM	1	0	17.43	17.37	17.52	19	5				
15	256QAM	1	37	17.54	17.40	17.30						
15	256QAM	36	0	17.71	17.74	17.54						
15	256QAM	36	25	17.72	17.61	17.66						
15	256QAM	36	39	17.63	17.69	17.55						
15	256QAM	75	0	17.36	17.69	17.47	19	5				
Channel												
Frequency [MHz]												
10	QPSK	1	0	22.75	22.82	22.84	24	0				
10	QPSK	1	25	22.46	22.38	22.45						
10	QPSK	1	49	22.56	22.44	22.52						
10	QPSK	25	0	21.52	21.75	21.67						
10	QPSK	25	12	21.56	21.48	21.68						
10	QPSK	25	25	21.76	21.64	21.72	23	1				
10	QPSK	12	0	20.61	20.59	20.77						
10	16QAM	1	0	22.06	21.85	21.68						
10	16QAM	1	25	21.89	21.59	21.88						
10	16QAM	1	49	21.91	21.80	21.75						
10	16QAM	25	0	20.67	20.57	20.70	22	2				
10	16QAM	25	11.95	20.69	20.53	20.66						
10	16QAM	25	25	20.68	20.63	20.69						
10	16QAM	50	0	20.61	20.58	20.68						
10	64QAM	1	0	20.69	20.54	20.74						
10	64QAM	1	0	20.69	20.54	20.34	22	2				
10	64QAM	1	25	20.67	20.36	20.52						
10	64QAM	25	12	19.73	19.53	19.64						
10	64QAM	25	25	19.71	19.54	19.63						
10	64QAM	50	0	19.62	19.57	19.60						
10	256QAM	1	0	17.41	17.54	17.44	19	5				
10	256QAM	1	25	17.41	17.48	17.55						
10	256QAM	1	49	17.53	17.41	17.35						
10	256QAM	25	0	17.88	17.82	17.59						
10	256QAM	25	12	17.74	17.61	17.66						
10	256QAM	25	25	17.56	17.79	17.62	19	5				
Channel												
Frequency [MHz]												
5	QPSK	1	0	22.84	22.91	22.94	24	0				
5	QPSK	1	12	22.81	22.92	22.96						
5	QPSK	1	24	22.48	22.51	22.48						
5	QPSK	12	0	21.63	21.73	21.68						
5	QPSK	12	13	21.70	21.62	21.62						
5	QPSK	12	13	21.70	21.62	21.62	23	1				
5	QPSK	25	0	21.61	21.75	21.55						
5	16QAM	1	0	21.88	21.64	21.58						
5	16QAM	1	12	21.93	21.52	21.69						
5	16QAM	1	24	21.91	21.72	21.73						
5	16QAM	12	0	20.74	20.59	20.62	22	2				
5	16QAM	12	7	20.69	20.55	20.66						
5	16QAM	12	13	20.63	20.56	20.70						
5	16QAM	25	0	20.73	20.60	20.59						
5	64QAM	1	0	20.63	20.50	20.47						
5	64QAM	1	12	20.61	20.40	20.54	22	2				
5	64QAM	1	24	20.70	20.65	20.65						
5	64QAM	12	0	19.70	19.43	19.65						
5	64QAM	12	7	19.63	19.66	19.65						
5	64QAM	12	13	19.82	19.65	19.62						
5	64QAM	25	0	19.73	19.54	19.68	21	3				
5	256QAM	1	0	17.42	17.54	17.50						
5	256QAM	1	12	17.44	17.46	17.54						
5	256QAM	1	24	17.54	17.52	17.50						
5	256QAM	12	0	17.59	17.82	17.54						
5	256QAM	12	7	17.75	17.71	17.70	19	5				
5	256QAM	12	13	17.64	17.73	17.63						
5	256QAM	25	0	17.38	17.69	17.55						

Band 38_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPE (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	23.33	23.35	23.18	26	0	
20	QPSK	1	49	23.24	23.20	23.29			
20	QPSK	1	99	23.06	23.10	23.26			
20	QPSK	36	0	22.41	22.45	22.32			
20	QPSK	50	24	22.34	22.26	22.27			
20	QPSK	100	0	22.35	22.21	22.31	24	1	
20	QPSK	100	0	22.34	22.35	22.30			
20	16QAM	1	0	22.60	22.22	22.43			
20	16QAM	1	49	22.62	22.37	22.34			
20	16QAM	1	99	22.55	22.69	22.37			
20	16QAM	50	0	21.34	21.21	21.26	23	2	
20	16QAM	50	24	21.45	21.53	21.37			
20	16QAM	50	50	21.43	21.33	21.42			
20	16QAM	100	0	21.51	21.35	21.40			
20	16QAM	100	0	21.50	21.36	21.45			
20	16QAM	1	49	21.59	21.30	21.56	23	2	
20	16QAM	1	99	21.61	21.37	21.58			
20	16QAM	50	0	20.33	20.44	20.58			
20	16QAM	50	24	20.65	20.37	20.81			
20	16QAM	50	50	20.69	20.58	20.68			
20	16QAM	100	0	20.69	20.42	20.65	22	3	
20	16QAM	100	0	20.65	20.47	20.55			
20	25QPSK	1	0	18.25	18.26	18.24			
20	25QPSK	1	49	18.23	18.32	18.24			
20	25QPSK	1	99	18.24	18.31	18.18			
20	25QPSK	36	0	18.26	18.27	18.45	20	5	
20	25QPSK	50	24	18.26	18.47	18.27			
20	25QPSK	50	50	18.32	18.52	18.45			
20	25QPSK	100	0	18.18	18.37	18.18			
Channel									
Frequency [MHz]									
15	QPSK	1	0	23.33	23.35	23.18	26	0	
15	QPSK	1	47	23.24	23.06	23.18			
15	QPSK	1	99	23.06	23.10	23.29			
15	QPSK	36	0	22.40	22.44	22.32			
15	QPSK	36	20	22.34	22.13	22.25			
15	QPSK	50	0	22.35	22.14	22.23	24	1	
15	QPSK	50	24	22.28	22.22	22.26			
15	QPSK	75	0	22.20	22.22	22.26			
15	QPSK	1	0	22.39	22.22	22.30			
15	16QAM	1	0	22.45	22.27	22.28			
15	16QAM	1	74	22.48	22.55	22.31	23	2	
15	16QAM	1	125	22.50	22.58	22.31			
15	16QAM	25	0	21.23	21.18	21.21			
15	16QAM	25	10	21.33	21.18	21.37			
15	16QAM	36	50	21.29	21.32	21.36			
15	16QAM	50	0	21.42	21.13	21.28	23	2	
15	16QAM	50	0	21.44	21.31	21.37			
15	16QAM	1	37	21.50	21.16	21.34			
15	16QAM	1	21	21.52	21.32	21.53			
15	16QAM	36	0	20.39	20.31	20.63			
15	16QAM	36	20	20.52	20.36	20.38	22	3	
15	16QAM	36	20	20.59	20.38	20.48			
15	16QAM	75	0	20.55	20.41	20.48			
15	16QAM	1	0	18.27	18.24	18.24			
15	25QPSK	1	97	18.09	18.27	18.22			
15	25QPSK	1	74	18.17	18.21	18.09	20	5	
15	25QPSK	1	99	18.26	18.34	18.18			
15	25QPSK	36	20	18.13	18.40	18.15			
15	25QPSK	50	50	18.24	18.48	18.33			
15	25QPSK	50	50	18.24	18.48	18.33			
Channel									
Frequency [MHz]									
10	QPSK	1	0	23.31	23.32	23.15	26	0	
10	QPSK	1	25	23.17	23.07	23.26			
10	QPSK	1	49	23.10	23.05	23.15			
10	QPSK	25	0	22.36	22.38	22.23			
10	QPSK	25	12	22.28	22.16	22.14			
10	QPSK	36	0	22.33	22.14	22.25	24	1	
10	QPSK	36	0	22.32	22.25	22.21			
10	16QAM	1	0	22.60	22.22	22.37			
10	16QAM	1	49	22.62	22.37	22.28			
10	16QAM	1	49	22.58	22.57	22.23			
10	16QAM	25	0	21.32	21.21	21.23	24	1	
10	16QAM	25	11	21.12	21.12	21.33			
10	16QAM	24.8	11.8	21.45	21.30	21.31			
10	16QAM	25	25	21.40	21.35	21.24			
10	16QAM	25	25	21.38	21.11	21.28			
10	16QAM	1	0	21.43	21.34	21.37	23	2	
10	16QAM	1	25	21.52	21.20	21.42			
10	16QAM	1	49	21.54	21.32	21.43			
10	16QAM	25	0	20.62	20.33	20.45			
10	16QAM	25	12	20.43	20.33	20.41			
10	16QAM	25	12	20.54	20.40	20.47	22	3	
10	16QAM	25	12	20.67	20.36	20.47			
10	16QAM	50	0	18.27	18.21	18.09			
10	25QPSK	1	25	18.22	18.32	18.15			
10	25QPSK	1	49	18.20	18.26	18.12			
10	25QPSK	25	0	18.15	18.26	18.26	20	5	
10	25QPSK	25	12	18.26	18.47	18.15			
10	25QPSK	25	25	18.26	18.49	18.34			
10	25QPSK	25	25	18.18	18.24	18.18			
Channel									
Frequency [MHz]									
5	QPSK	1	0	23.32	23.30	23.15	26	0	
5	QPSK	1	12	23.13	23.07	23.26			
5	QPSK	12	0	22.35	22.30	22.24			
5	QPSK	12	7	22.26	22.15	22.21			
5	QPSK	12	14	22.26	22.25	22.23			
5	QPSK	25	0	22.34	22.26	22.27	24	1	
5	QPSK	25	0	22.41	22.20	22.29			
5	16QAM	1	22	22.68	22.29	22.24			
5	16QAM	1	24	22.54	22.56	22.27			
5	16QAM	12	0	21.20	21.09	21.16			
5	16QAM	12	0	21.31	21.14	21.23	23	2	
5	16QAM	12	13	21.34	21.21	21.40			
5	16QAM	1	21	21.33	21.18	21.18			
5	16QAM	1	0	21.45	21.25	21.40			
5	16QAM	1	12	21.54	21.10	21.49			
5	16QAM	1	21	21.53	21.37	21.43	23	2	
5	16QAM	12	0	20.41	20.39	20.49			
5	16QAM	12	0	20.50	20.36	20.40			
5	16QAM	25	0	20.44	20.36	20.42			
5	16QAM	25	0	20.66	20.41	20.63			
5	25QPSK	1	18	18.13	18.21	18.03	20	5	
5	25QPSK	1	12	18.20	18.32	18.10			
5	25QPSK	1	24	18.24	18.22	18.03			
5	25QPSK	12	0	18.12	18.07	18.42			
5	25QPSK	12	7	18.23	18.34	18.22			
5	25QPSK	12	13	18.20	18.38	18.17	20	5	
5	25QPSK	12	13	18.23	18.38	18.17			
5	25QPSK	12	13	18.23	18.38	18.17			
5	25QPSK	12	13	18.23	18.38	18.17			
5	25QPSK	12	13	18.23	18.38	18.17			



Band 38_Ant 3									
BW [MHz]	Modulation	RB Size	RB Offset	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Turn-up link (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37850	38000	38160			
20	QPSK	1	0	24.51	24.59	24.50			
20	QPSK	1	49	24.46	24.44	24.47	25.7	0	
20	QPSK	1	99	24.47	24.43	24.44			
20	QPSK	50	0	23.98	23.76	23.91			
20	QPSK	50	24	23.60	23.70	23.66	24.7	1	
20	QPSK	50	49	23.66	23.74	23.67			
20	QPSK	100	0	23.65	23.74	23.68			
20	16QAM	1	0	23.58	23.64	23.65	24.7	1	
20	16QAM	1	49	23.66	23.70	23.76			
20	16QAM	1	99	23.73	23.71	23.69			
20	16QAM	50	0	22.59	22.52	22.74			
20	16QAM	50	24	22.57	22.58	22.71	23.7	2	
20	16QAM	50	50	22.70	22.72	22.68			
20	16QAM	100	0	22.54	22.55	22.61			
20	16QAM	100	24	22.56	22.56	22.61			
20	64QAM	1	49	22.51	22.59	22.56	23.7	2	
20	64QAM	1	99	22.59	22.48	22.56			
20	64QAM	50	0	21.60	21.59	21.65			
20	64QAM	50	24	21.58	21.61	21.65	22.7	3	
20	64QAM	50	49	21.62	21.54	21.72			
20	64QAM	100	0	21.61	21.60	21.64			
20	256QAM	1	0	19.48	19.46	19.56			
20	256QAM	1	49	19.46	19.52	19.53	20.7	5	
20	256QAM	1	99	19.48	19.59	19.50			
20	256QAM	50	0	19.54	19.52	19.61			
20	256QAM	50	24	19.57	19.59	19.61	20.7	5	
20	256QAM	50	50	19.69	19.51	19.47			
20	256QAM	100	0	19.43	19.43	19.53			
Channel									
Frequency (MHz)				2177.5	2225	2615.5	Turn-up link (dBm)	MFR (dB)	
15	QPSK	1	0	24.42	24.43	24.43			
15	QPSK	1	37	24.52	24.43	24.46	25.7	0	
15	QPSK	1	74	24.58	24.44	24.44			
15	QPSK	36	0	23.57	23.66	23.61			
15	QPSK	36	20	23.66	23.70	23.61	24.7	1	
15	QPSK	36	36	23.70	23.72	23.69			
15	QPSK	1	0	23.58	23.71	23.77			
15	16QAM	1	0	23.64	23.67	23.76	24.7	1	
15	16QAM	1	37	23.72	23.72	23.68			
15	16QAM	1	74	23.72	23.71	23.61			
15	16QAM	36	0	22.52	22.51	22.65			
15	16QAM	36	20	22.58	22.56	22.68	23.7	2	
15	16QAM	36	36	22.65	22.76	22.65			
15	16QAM	75	0	22.54	22.55	22.55			
15	64QAM	1	49	21.63	21.60	21.68			
15	64QAM	1	37	22.57	22.67	22.51	23.7	2	
15	64QAM	1	74	22.59	22.55	22.51			
15	64QAM	36	0	21.62	21.61	21.61			
15	64QAM	36	20	21.68	21.68	21.79	22.7	3	
15	64QAM	36	36	21.68	21.63	21.74			
15	256QAM	1	0	19.55	19.56	19.51			
15	256QAM	1	37	19.56	19.59	19.56	20.7	5	
15	256QAM	1	74	19.65	19.59	19.61			
15	256QAM	36	0	19.60	19.57	19.54			
15	256QAM	36	20	19.62	19.62	19.66	20.7	5	
15	256QAM	36	36	19.70	19.65	19.65			
15	256QAM	75	0	19.46	19.43	19.56			
Channel									
Frequency (MHz)				2571.5	2595	2615.5	Turn-up link (dBm)	MFR (dB)	
10	QPSK	1	0	24.32	24.47	24.41			
10	QPSK	1	25	24.52	24.44	24.44	25.7	0	
10	QPSK	1	49	24.55	24.49	24.46			
10	QPSK	25	0	23.52	23.66	23.69			
10	QPSK	12	0	23.52	23.62	23.61	24.7	1	
10	QPSK	25	25	23.72	23.60	23.70			
10	QPSK	1	0	23.53	23.66	23.67			
10	16QAM	1	0	23.61	23.69	23.70	24.7	1	
10	16QAM	1	25	23.75	23.73	23.78			
10	16QAM	1	49	23.72	23.61	23.71			
10	16QAM	25	0	22.56	22.58	22.65	23.7	2	
10	16QAM	25	12	22.62	22.56	22.72			
10	16QAM	25	25	22.65	22.75	22.68			
10	16QAM	50	0	22.56	22.49	22.55			
10	64QAM	1	0	22.50	22.52	22.57	23.7	2	
10	64QAM	1	25	22.57	22.64	22.61			
10	64QAM	1	49	22.67	22.55	22.63			
10	64QAM	25	0	21.62	21.60	21.63			
10	64QAM	25	12	21.65	21.71	21.71	22.7	3	
10	64QAM	25	25	21.76	21.65	21.74			
10	256QAM	1	0	19.54	19.44	19.46			
10	256QAM	1	25	19.51	19.53	19.61	20.7	5	
10	256QAM	1	49	19.56	19.55	19.61			
10	256QAM	25	0	19.51	19.54	19.52			
10	256QAM	25	12	19.46	19.62	19.56	20.7	5	
10	256QAM	25	25	19.54	19.61	19.59			
10	256QAM	50	0	19.59	19.50	19.46			

Band 41_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Turn-up limit (dBm)	MFR (dB)
Channel										
Frequency (MHz)				38970	40185	40600	41055	41460		
20	QPSK	1	0	22.80	22.68	22.60	22.77	22.78		
20	QPSK	1	49	22.78	22.80	22.71	22.82	22.55	24	0
20	QPSK	1	99	22.71	22.78	22.69	22.86	22.72		
20	QPSK	50	0	21.88	21.86	21.98	21.74	21.82		
20	QPSK	50	24	21.80	21.91	21.69	21.84	21.80	23	1
20	QPSK	50	49	21.95	21.80	21.66	21.82	21.75		
20	16QAM	1	0	21.89	21.90	21.85	21.77	21.84		
20	16QAM	1	49	21.88	21.84	21.95	21.78	21.74		
20	16QAM	1	99	21.83	22.03	21.80	21.82	21.90		
20	16QAM	50	0	20.74	21.02	20.80	20.78	20.89		
20	16QAM	50	24	20.78	20.88	20.91	20.73	20.80	22	2
20	16QAM	50	50	20.61	20.91	20.79	20.69	20.75		
20	16QAM	100	0	20.81	20.93	20.78	20.60	20.78		
20	64QAM	1	0	20.75	20.92	20.78	20.62	20.74		
20	64QAM	1	49	20.85	20.92	20.78	20.67	20.68	22	2
20	64QAM	1	99	20.69	20.86	20.76	20.64	20.71		
20	64QAM	50	0	19.75	19.93	19.76	19.63	19.75		
20	64QAM	50	24	19.80	19.88	19.83	19.63	19.73	21	3
20	64QAM	50	49	19.91	19.93	19.76	19.63	19.61		
20	64QAM	100	0	19.77	19.87	19.81	19.65	19.74		
20	256QAM	1	0	17.73	17.73	17.93	17.71	17.70	19	
20	256QAM	1	49	17.86	17.82	17.82	17.60	17.64		
20	256QAM	1	99	17.77	17.76	17.87	17.72	17.67		
20	256QAM	50	0	17.87	17.83	17.93	17.77	17.80	19	5
20	256QAM	50	24	17.87	17.77	17.74	17.74	17.68		
20	256QAM	50	50	17.80	17.76	17.92	17.68	17.68		
20	256QAM	100	0	17.73	17.84	17.83	17.77	17.68		
Channel										
Frequency (MHz)				38970	40173	40620	41058	41515		
15	QPSK	1	0	22.74	22.67	22.61	22.58	22.61		
15	QPSK	1	37	23.67	23.73	23.71	23.51	23.55	24.00	0
15	QPSK	1	74	23.67	23.78	23.60	23.65	23.72		
15	QPSK	36	0	21.63	21.66	21.64	21.48	21.51		
15	QPSK	36	20	21.80	21.85	21.69	21.74	21.73	23	1
15	QPSK	36	36	21.74	21.76	21.77	21.72	21.86		
15	QPSK	1	0	21.70	21.87	21.89	21.78	21.74		
15	16QAM	1	0	21.69	21.82	21.74	21.84	21.78	23	1
15	16QAM	1	37	21.77	21.83	21.63	21.80	21.75		
15	16QAM	1	74	21.86	22.01	21.70	21.86	21.83		
15	16QAM	36	0	20.66	20.67	20.77	20.73	20.69	22	2
15	16QAM	36	20	20.68	20.75	20.77	20.67	20.77		
15	16QAM	36	36	20.67	20.87	20.78	20.74	20.76		
15	16QAM	75	0	20.73	20.88	20.69	20.64	20.74		
15	64QAM	1	49	19.71	19.87	19.76	19.63	19.70	22	2
15	64QAM	1	37	20.62	20.83	20.74	20.76	20.74		
15	64QAM	1	74	20.80	20.79	20.57	20.73	20.78		
15	64QAM	36	0	19.70	19.84	19.76	19.63	19.77	21	3
15	64QAM	36	20	19.78	19.89	19.62	19.76	19.82		
15	64QAM	36	36	19.88	19.85	19.70	19.88	19.88		
15	256QAM	1	0	17.60	17.63	17.62	17.65	17.65	19	5
15	256QAM	1	37	17.62	17.67	17.67	17.60	17.67		
15	256QAM	1	74	17.63	17.67	17.78	17.69	17.76		
15	256QAM	36	0	17.76	17.82	17.82	17.68	17.88		
15	256QAM	36	20	17.88	17.78	17.84	17.82	17.84	19	5
15	256QAM	36	36	17.72	17.72	17.77	17.73	17.83		
Channel										
Frequency (MHz)				38970	40160	40620	41058	41560		
15	QPSK	1	0	22.72	22.60	22.77	22.68	22.74		
15	QPSK	1	25	22.77	22.66	22.61	22.80	22.61	24.00	0
15	QPSK	1	49	22.68	22.72	22.79	22.71	22.71		
15	QPSK	26	0	21.75	21.91	21.05	21.81	21.87		
15	QPSK	26	12	21.68	21.81	21.67	21.70	21.70		
15	QPSK	26	25	21.78	21.79	21.79	21.79	21.68	23	1
15	QPSK	50	0	21.72	21.88	22.02	21.82	21.78		
15	QPSK	50	25	21.80	21.80	21.80	21.76	21.74		
15	16QAM	1	0	21.83	21.88	21.75	21.77	21.78		
15	16QAM	1	49	21.81	21.81	21.80	21.84	21.79		
15	16QAM	1	99	21.74	21.84	21.73	21.81	21.76		
15	16QAM	26	0	20.64	20.75	20.75	20.70	20.70	22	2
15	16QAM	26	12	20.72	20.75	20.75	20.70	20.78		
15	16QAM	26	25	20.78	20.88	20.75	20.68	20.78		
15	16QAM	50	0	20.70	20.83	20.64	20.84	20.84		
15	64QAM	1	0	20.63	20.86	20.76	20.71	20.84		
15	64QAM	1	25	20.80	20.69	20.74	20.75	20.67	22	2
15	64QAM	1	49	20.72	20.80	20.77	20.69	20.69		
15	64QAM	26	0	19.74	19.91	19.75	19.71	19.66		
15	64QAM	26	12	19.83	19.86	19.76	19.68	19.70	21	3
15	64QAM	26	25	19.86	19.93	19.76	19.64	19.75		
15	64QAM	50	0	19.77	19.98	19.88	19.71	19.85		
15	256QAM	1	0	17.61	17.71	17.81	17.67	17.69	19	5
15	256QAM	1	25	17.79	17.54	17.62	17.84	17.70		
15	256QAM	1	49	17.68	17.74	17.80	17.66	17.78		
15	256QAM	26	0	17.62	17.81	17.73	17.67	17.86		
15	256QAM	26	12	17.77	17.66	17.88	17.77	17.71	19	5
15	256QAM	26	25	17.80	17.84	17.83	17.69	17.83		
Channel										
Frequency (MHz)				38975	40146	40620	41058	41565		
15	QPSK	1	0	22.72	22.63	22.59	22.63	22.75		
15	QPSK	1	12	22.75	22.80	22.60	22.80	22.63	24.00	0
15	QPSK	1	24	22.68	22.72	22.79	22.71	22.71		
15	QPSK	12	0	21.81	21.90	21.90	21.77	21.81		
15	QPSK	12	7	21.73	21.77	21.66	21.74	21.83	23	1
15	QPSK	12	24	21.82	21.79	21.79	21.79	21.78		
15	QPSK	26	0	21.68	21.88	22.00	21.62	21.81		
15	QPSK	26	12	21.74	21.84	21.73	21.73	21.69	22	2
15	16QAM	1	0	21.84	21.86	21.77	21.77	21.77		
15	16QAM	1	12	21.81	21.80	21.87	21.83	21.80	23	1
15	16QAM	1	24	21.80	22.03	21.75	21.80	21.83		
15	16QAM	12	0	20.72	20.83	20.63	20.73	20.83		
15	16QAM	12	7	20.85	20.80	20.78	20.69	20.78	22	2
15	16QAM	12	24	20.71	20.91	20.72	20.78	20.89		
15	16QAM	26	0	20.83	20.80	20.79	20.68	20.74		
15	16QAM	26	12	20.74	20.90	20.74	20.63	20.74		
15	64QAM	1	0	20.75	20.82	20.68	20.67	20.74		
15	64QAM	1	12	20.71	20.91	20.72	20.78	20.89		
15	64QAM	12	0	19.75	19.82	19.75	19.73	19.67	21	3
15	64QAM	12	7	19.88	19.87	19.78	19.68	19.69		
15	64QAM	12	24	19.87	19.93	19.70	19.73	19.80		
15	256QAM	1	0	17.61	17.69	17.81	17.67	17.69	19	5
15	256QAM	1	12	17.73	17.63	17.68	17.78	17.68		
15	256QAM	1	24	17.66	17.71	17.73	17.70	17.68		
15	256QAM	12	0	17.68	17.81	17.73	17.68	17.81		
15	256QAM	12	7	17.68	17.73	17.68	17.78	17.67	19	5
15	256QAM	12	24	17.80	17.82	17.83	17.75	17.83		



Band 41_Ant 2											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low-Mid-High Ch. / Freq.	Power Low-Mid-High Ch. / Freq.	Power Low-Mid-High Ch. / Freq.	Power Low-Mid-High Ch. / Freq.	Power Low-Mid-High Ch. / Freq.	Turn-up time (dBm)	MPE (dB)	
Channel											
Frequency (MHz)											
20	QPSK	1	0	24.48	24.48	24.48	24.48	24.48	25.7	0	
20	QPSK	1	49	24.48	24.51	24.58	24.49	24.6			
20	QPSK	1	99	24.4	24.51	24.57	24.44	24.54			
20	QPSK	50	0	23.86	23.81	23.77	23.95	23.87			
20	QPSK	50	24	23.54	23.67	23.69	23.56	23.6	24.7	1	
20	QPSK	100	0	23.42	23.54	23.55	23.55	23.54			
20	16QAM	1	0	23.48	23.38	23.53	23.42	23.47	24.7	1	
20	16QAM	1	49	23.38	23.37	23.38	23.3	23.43			
20	16QAM	1	99	23.42	23.72	23.39	23.37	23.37			
20	16QAM	50	0	22.48	22.63	22.45	22.47	22.54			
20	16QAM	50	24	22.46	22.57	22.49	22.58	22.58	23.7	2	
20	16QAM	50	50	22.36	22.66	22.54	22.61	22.57			
20	16QAM	100	0	22.49	22.63	22.56	22.43	22.44			
20	64QAM	1	0	22.3	22.44	22.3	22.23	22.33	23.7	2	
20	64QAM	1	49	22.34	22.42	22.3	22.34	22.33			
20	64QAM	1	99	22.46	22.36	22.32	22.27	22.26			
20	64QAM	50	0	21.36	21.36	21.49	21.49	21.55			
20	64QAM	50	24	21.43	21.38	21.39	21.41	21.45	22.7	3	
20	64QAM	50	50	21.51	21.38	21.62	21.58	21.46			
20	64QAM	100	0	21.42	21.39	21.52	21.39	21.54			
20	256QAM	1	0	19.71	19.69	19.53	19.43	19.33	20.7	5	
20	256QAM	1	49	19.71	19.69	19.43	19.37	19.41			
20	256QAM	1	99	19.81	19.63	19.49	19.32	19.32			
20	256QAM	50	0	19.77	19.59	19.49	19.29	19.33			
20	256QAM	50	24	19.78	19.51	19.41	19.43	19.42	20.7	5	
20	256QAM	50	50	19.71	19.51	19.47	19.35	19.39			
20	256QAM	100	0	19.75	19.55	19.52	19.41	19.46			
Channel											
Frequency (MHz)											
15	QPSK	1	0	24.3	24.3	24.71	24.51	24.7	25.70	0	
15	QPSK	1	37	24.43	24.41	24.45	24.49	24.64			
15	QPSK	1	74	24.4	24.45	24.54	24.51	24.62			
15	QPSK	36	0	23.8	23.87	23.87	23.88	23.85	24.7	1	
15	QPSK	36	30	23.52	23.84	23.61	23.52	23.56			
15	QPSK	36	39	23.33	23.45	23.51	23.53	23.52	24.7	1	
15	QPSK	75	0	23.41	23.55	23.66	23.62	23.64			
15	16QAM	1	0	23.34	23.33	23.43	23.38	23.48	23.7	2	
15	16QAM	1	37	23.32	23.46	23.31	23.46	23.41			
15	16QAM	1	74	23.4	23.38	23.39	23.33	23.45			
15	16QAM	36	0	22.48	22.52	22.33	22.46	22.39	23.7	2	
15	16QAM	36	20	22.47	22.49	22.49	22.49	22.47			
15	16QAM	36	39	22.36	22.57	22.41	22.55	22.53	23.7	2	
15	16QAM	75	0	22.42	22.62	22.45	22.47	22.53			
15	64QAM	1	0	22.31	22.31	22.35	22.35	22.3	23.7	2	
15	64QAM	1	37	22.34	22.42	22.38	22.38	22.32			
15	64QAM	1	74	22.26	22.42	22.22	22.29	22.26			
15	64QAM	36	0	21.428	21.54	21.41	21.51	21.48	22.7	3	
15	64QAM	36	20	21.39	21.54	21.38	21.49	21.58			
15	64QAM	36	39	21.48	21.57	21.5	21.59	21.59			
15	64QAM	75	0	21.41	21.49	21.44	21.51	21.5	20.7	5	
15	256QAM	1	0	19.67	19.46	19.44	19.38	19.45			
15	256QAM	1	37	19.68	19.46	19.46	19.38	19.45			
15	256QAM	1	74	19.74	19.49	19.27	19.43	19.48			
15	256QAM	36	0	19.63	19.57	19.38	19.29	19.42	20.7	5	
15	256QAM	36	20	19.65	19.47	19.34	19.45	19.4			
15	256QAM	36	39	19.70	19.51	19.45	19.48	19.39			
15	256QAM	75	0	19.64	19.46	19.43	19.46	19.38			
Channel											
Frequency (MHz)											
10	QPSK	1	0	24.39	24.39	24.65	24.39	24.57	25.70	0	
10	QPSK	1	25	24.37	24.44	24.55	24.59	24.55			
10	QPSK	1	49	24.38	24.47	24.48	24.44	24.63			
10	QPSK	25	0	23.55	23.47	23.77	23.62	23.67	24.7	1	
10	QPSK	25	12	23.48	23.59	23.63	23.56	23.64			
10	QPSK	25	25	23.39	23.38	23.62	23.55	23.64			
10	QPSK	100	0	23.46	23.5	23.67	23.51	23.68	24.7	1	
10	16QAM	1	0	23.47	23.3	23.48	23.43	23.52			
10	16QAM	1	25	23.38	23.44	23.27	23.43	23.31	23.7	2	
10	16QAM	1	49	23.3	23.34	23.39	23.32	23.48			
10	16QAM	25	0	22.4	22.51	22.34	22.54	22.57			
10	16QAM	25	12	22.32	22.53	22.44	22.48	22.55			
10	16QAM	25	25	22.45	22.52	22.48	22.5	22.52	23.7	2	
10	16QAM	50	0	22.41	22.58	22.44	22.46	22.44			
10	16QAM	1	0	22.28	22.38	22.24	22.32	22.26			
10	64QAM	1	0	22.13	22.29	22.26	22.28	22.3	23.7	2	
10	64QAM	1	49	22.27	22.55	22.23	22.34	22.28			
10	64QAM	25	0	21.5	21.38	21.39	21.39	21.54			
10	64QAM	25	12	21.37	21.35	21.27	21.45	21.45	22.7	3	
10	64QAM	25	25	21.43	21.67	21.44	21.55	21.48			
10	64QAM	50	0	21.4	21.51	21.45	21.45	21.57			
10	256QAM	1	0	19.71	19.54	19.47	19.35	19.41	20.7	5	
10	256QAM	1	25	19.69	19.56	19.33	19.33	19.47			
10	256QAM	1	49	19.73	19.54	19.39	19.37	19.47			
10	256QAM	25	0	19.71	19.52	19.34	19.32	19.35			
10	256QAM	25	12	19.73	19.46	19.37	19.48	19.31	20.7	5	
10	256QAM	25	25	19.65	19.46	19.35	19.37	19.42			
10	256QAM	50	0	19.68	19.42	19.51	19.48	19.34			
Channel											
Frequency (MHz)											
5	QPSK	1	0	24.38	24.38	24.6	24.34	24.64	25.70	0	
5	QPSK	1	12	24.39	24.31	24.45	24.51	24.52			
5	QPSK	1	24	24.3	24.39	24.55	24.35	24.58			
5	QPSK	12	0	23.64	23.59	23.64	23.57	23.69	24.7	1	
5	QPSK	12	7	23.62	23.57	23.61	23.55	23.64			
5	QPSK	12	13	23.38	23.4	23.56	23.49	23.51			
5	QPSK	25	0	23.28	23.5	23.53	23.49	23.51	24.7	1	
5	16QAM	1	0	23.42	23.34	23.39	23.43	23.42			
5	16QAM	1	12	23.37	23.54	23.33	23.42	23.42			
5	16QAM	1	24	23.4	23.71	23.37	23.44	23.37			
5	16QAM	12	0	22.37	22.51	22.42	22.44	22.39	23.7	2	
5	16QAM	12	7	22.36	22.6	22.43	22.44	22.37			
5	16QAM	12	13	22.62	22.44	22.48	22.53	22.56			
5	16QAM	25	0	22.35	22.62	22.58	22.43	22.54			
5	64QAM	1	0	22.3	22.4	22.26	22.3	22.3	23.7	2	
5	64QAM	1	12	22.34	22.35	22.19	22.25	22.3			
5	64QAM	1	24	22.14	22.45	22.25	22.31	22.36			
5	64QAM	12	0	21.28	21.55	21.38	21.51	21.6	22.7	3	
5	64QAM	12	7	21.4	21.59	21.33	21.47	21.68			
5	64QAM	12	13	21.37	21.61	21.42	21.46	21.48			
5	256QAM	1	0	21.37	21.44	21.44	21.43	21.52			
5	256QAM	1	12	19.68	19.66	19.49	19.34	19.34	20.7	5	
5	256QAM	1	12	19.69	19.62	19.43	19.41	19.41			
5	256QAM	1	24	19.79	19.69	19.39	19.39	19.43			
5	256QAM	12	0	19.66	19.49	19.39	19.32	19.38			
5	256QAM	12	7	19.68	19.58	19.34	19.37	19.35	20.7	5	
5	256QAM	12	13	19.67	19.35	19.37	19.39	19.30			
5	256QAM	25	0	19.74	19.54	19.41	19.43	19.33			

Band 41_Ant 3											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low-Mid-High Ch. / Freq.	Power Low-Mid-High Ch. / Freq.	Power Low-Mid-High Ch. / Freq.	Power Low-Mid-High Ch. / Freq.	Power Low-Mid-High Ch. / Freq.	Turn-up time (dBm)	MPE (dB)	
Channel											
Frequency (MHz)				39975	40165	40020	41000	41660			
20	QPSK	0	0	24.44	24.46	24.66	24.75	24.70	24.70		
20	QPSK	1	49	24.46	24.48	24.68	24.62	24.64	24.55	25.7	0
20	QPSK	50	50	23.87	23.80	23.90	23.90	23.85	23.84		
20	QPSK	50	50	23.87	23.80	23.90	23.90	23.85	23.84		
20	QPSK	50	24	23.50	23.86	23.83	23.79	23.81			
20	QPSK	50	24	23.50	23.86	23.83	23.79	23.81			
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43	23.7	1
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43		
20	QPSK	100	0	23.20	23.30	23.31	23.31	23.33	23.43	</	



Band 2_Ant 2									
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low (mW)	Power High (mW)	Power Ch. (mW)	Power Fr. (mW)	Turn-up (dB)	MFR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	22.49	22.54	22.39			
20	QPSK	1	49	22.27	22.47	22.39	24	0	
20	QPSK	1	99	22.35	22.32	22.24			
20	QPSK	1	149	21.27	21.16	21.29			
20	QPSK	50	24	21.31	21.51	21.41	23	1	
20	QPSK	50	50	21.5	21.38	21.29			
20	QPSK	50	75	21.58	21.48	21.37			
20	16QAM	1	0	21.72	21.72	21.69			
20	16QAM	1	49	21.55	21.69	21.57	23	1	
20	16QAM	1	99	21.51	21.58	21.58			
20	16QAM	50	0	20.26	20.8	20.29			
20	16QAM	50	24	20.37	20.37	20.28	22	2	
20	16QAM	50	50	20.47	20.37	20.28			
20	16QAM	50	75	20.38	20.45	20.31			
20	16QAM	1	49	20.44	20.9	20.42	22	2	
20	16QAM	1	99	20.53	20.48	20.42			
20	16QAM	50	0	19.26	19.59	19.23			
20	16QAM	50	24	19.37	19.5	19.33	21	3	
20	16QAM	50	50	19.49	19.37	19.28			
20	16QAM	50	75	19.38	19.45	19.31			
20	256QAM	1	0	17.81	17.64	17.65			
20	256QAM	1	49	17.50	17.88	17.64	19	5	
20	256QAM	1	99	17.48	17.88	17.64			
20	256QAM	50	0	17.51	17.48	17.59			
20	256QAM	50	24	17.36	17.48	17.51	19	5	
20	256QAM	50	75	17.35	17.48	17.59			
20	256QAM	100	0	17.63	17.55	17.51			

Channel									
Frequency (MHz)									
15	QPSK	1	0	22.62	22.62	22.37			
15	QPSK	1	37	22.18	22.42	22.37	24	0	
15	QPSK	1	74	22.28	22.37	22.37			
15	QPSK	36	0	21.29	21.55	21.22			
15	QPSK	36	20	21.29	21.52	21.43	23	1	
15	QPSK	36	40	21.46	21.39	21.42			
15	QPSK	75	0	21.39	21.42	21.39			
15	16QAM	1	0	21.64	21.74	21.54			
15	16QAM	1	37	21.59	21.56	21.56	23	1	
15	16QAM	1	74	21.61	21.63	21.57			
15	16QAM	36	0	20.17	20.50	20.19			
15	16QAM	36	20	20.33	20.52	20.41	22	2	
15	16QAM	36	40	20.52	20.29	20.28			
15	16QAM	75	0	20.33	20.37	20.36			
15	16QAM	75	20	20.36	20.42	20.37			
15	16QAM	1	37	20.49	20.57	20.52	22	2	
15	16QAM	1	74	20.56	20.52	20.52			
15	16QAM	36	0	19.31	19.57	19.31			
15	16QAM	36	20	19.37	19.52	19.31	21	3	
15	16QAM	36	40	19.42	19.31	19.17			
15	16QAM	75	0	19.45	19.41	19.45			
15	256QAM	1	0	17.46	17.62	17.59			
15	256QAM	1	37	17.46	17.58	17.64	19	5	
15	256QAM	1	74	17.48	17.38	17.48			
15	256QAM	36	0	17.44	17.42	17.53			
15	256QAM	36	20	17.26	17.42	17.37	19	5	
15	256QAM	36	40	17.32	17.27	17.48			
15	256QAM	75	0	17.46	17.51	17.47			

Channel									
Frequency (MHz)									
10	QPSK	1	0	22.51	22.51	22.41			
10	QPSK	1	25	22.23	22.42	22.25	24	0	
10	QPSK	25	0	21.31	21.57	21.31			
10	QPSK	25	12	21.33	21.51	21.37	23	1	
10	QPSK	25	24	21.42	21.34	21.42			
10	QPSK	50	0	21.27	21.39	21.38			
10	16QAM	1	0	21.71	21.84	21.60			
10	16QAM	1	25	21.55	21.63	21.63	23	1	
10	16QAM	1	49	21.52	21.52	21.58			
10	16QAM	25	0	20.16	20.46	20.22			
10	16QAM	25	12	20.17	20.46	20.25	22	2	
10	16QAM	25	24	20.49	20.34	20.28			
10	16QAM	50	0	20.29	20.45	20.25			
10	16QAM	50	20	20.39	20.46	20.29			
10	16QAM	1	25	20.42	20.59	20.41	22	2	
10	16QAM	1	49	20.52	20.53	20.37			
10	16QAM	25	0	19.32	19.49	19.27			
10	16QAM	25	12	19.39	19.40	19.20	21	3	
10	16QAM	25	24	19.46	19.35	19.20			
10	16QAM	50	0	19.38	19.38	19.28			
10	256QAM	1	0	17.62	17.52	17.50			
10	256QAM	1	25	17.44	17.59	17.62	19	5	
10	256QAM	1	49	17.43	17.47	17.49			
10	256QAM	25	0	17.39	17.48	17.47			
10	256QAM	25	12	17.24	17.48	17.58	19	5	
10	256QAM	25	24	17.50	17.38	17.58			
10	256QAM	50	0	17.40	17.49	17.47			

Channel									
Frequency (MHz)									
5	QPSK	1	0	22.46	22.47	22.42			
5	QPSK	1	12	22.28	22.48	22.37	24	0	
5	QPSK	1	24	22.25	22.44	22.35			
5	QPSK	12	0	21.23	21.63	21.28			
5	QPSK	12	7	21.24	21.52	21.46	23	1	
5	QPSK	12	13	21.51	21.39	21.47			
5	QPSK	25	0	21.34	21.46	21.31			
5	16QAM	1	0	21.65	21.72	21.60			
5	16QAM	1	12	21.49	21.68	21.67	23	1	
5	16QAM	1	24	21.59	21.57	21.50			
5	16QAM	12	0	20.31	20.55	20.21			
5	16QAM	12	7	20.37	20.50	20.39	22	2	
5	16QAM	12	13	20.46	20.38	20.20			
5	16QAM	25	0	20.37	20.42	20.36			
5	16QAM	25	7	20.37	20.44	20.45			
5	16QAM	1	12	19.39	19.40	19.45	22	2	
5	16QAM	1	24	19.31	19.48	19.45			
5	16QAM	12	0	19.31	19.51	19.32			
5	16QAM	12	7	19.38	19.49	19.37	21	3	
5	16QAM	12	13	19.32	19.45	19.37			
5	16QAM	25	0	19.42	19.39	19.31			
5	256QAM	1	0	17.58	17.57	17.53			
5	256QAM	1	12	17.42	17.61	17.58	19	5	
5	256QAM	1	24	17.46	17.44	17.47			
5	256QAM	12	0	17.48	17.41	17.48			
5	256QAM	12	7	17.33	17.47	17.48	19	5	
5	256QAM	12	13	17.29	17.38	17.39			
5	256QAM	25	0	17.41	17.47	17.48			

Channel									
Frequency (MHz)									
3	QPSK	1	0	22.53	22.48	22.37			
3	QPSK	1	8	22.27	22.43	22.34	24	0	
3	QPSK	1	14	22.27	22.32	22.35			
3	QPSK	8	0	21.31	21.51	21.37			
3	QPSK	8	4	21.27	21.41	21.36	23	1	
3	QPSK	8	14	21.52	21.39	21.48			
3	QPSK	15	0	21.40	21.51	21.50			
3	16QAM	1	0	21.64	21.67	21.60			
3	16QAM	1	8	21.48	21.70	21.65	23	1	
3	16QAM	1	14	21.57	21.62	21.50			
3	16QAM	8	0	20.32	20.49	20.34			
3	16QAM	8	7	20.37	20.41	20.18	22	2	
3	16QAM	8	14	20.38	20.36	20.22			
3	16QAM	15	0	20.69	20.63	20.43			
3	16QAM	1	8	20.49	20.53	20.38	22	2	
3	16QAM	1	14	20.58	20.52	20.38			
3	16QAM	8	0	19.32	19.83	19.19			
3	16QAM	8	4	19.29	19.81	19.38	21	3	
3	16QAM	8	14	19.35	19.38	19.15			
3	16QAM	15	0	19.41	19.44	19.37			
3	256QAM	1	0	17.53	17.82	17.57			
3	256QAM	1	8	17.47	17.87	17.62	19	5	
3	256QAM	1	14	17.48	17.56	17.54			
3	256QAM	8	0	17.42	17.47	17.49			
3	256QAM	8	7	17.33	17.48	17.49	19	5	
3	256QAM	8	14	17.37	17.26	17.35			
3	256QAM	15	0	17.42	17.49	17.48			

Channel									
Frequency (MHz)									
				180.7	180.0	169.3	Unit		
1.4	QPSK	1	0	22.54	22.44	22.38			
1.4	QPSK	1	5	22.24	22.42	22.34	24	0	
1.4	QPSK	1	5	22.24	22.22	22.35			
1.4	QPSK	3	0	22.18	22.45	22.19			
1.4	QPSK	3	3	22.40	22.34	22.19			
1.4	QPSK	3	6	21.52	21.43	21.41	23	1	
1.4	16QAM	1	0	21.77	21.72	21.67			
1.4	16QAM	1	5	21.54	21.53	21.51	23	1	
1.4	16QAM	3	0	21.26	21.58	21.39			
1.4	16QAM	3	3	21.30	21.43	21.37			
1.4	16QAM	3	6	21.40	21.41	21.41			
1.4	16QAM	3	9	20.38	20.48	20.43	23	2	
1.4	64QAM	1	0	20.89	20.86	20.40			
1.4	64QAM	1	5	20.39	20.56	20.47	22	2	
1.4	64QAM	1	5	20.69	20.46	20.44			
1.4	64QAM	3	0	20.24	20.55	20.23			
1.4	64QAM	3	3	20.30	20.42	20.33			
1.4	64QAM	3	6	20.39	20.41	20.41			
1.4	64QAM	3	9	19.37	19.37	19.15	21	3	
1.4	256QAM	1	0	17.48	17.48	17.48	19	5	
1.4	256QAM	1	5	17.40	17.56	17.55			
1.4	256QAM	1	5	17.41	17.47	17.47			
1.4	256QAM	3	0	17.32	17.35	17.40			
1.4	256QAM	3	1	17.31	17.35	17.40			
1.4	256QAM	3	3	17.37	17.25	17.47			

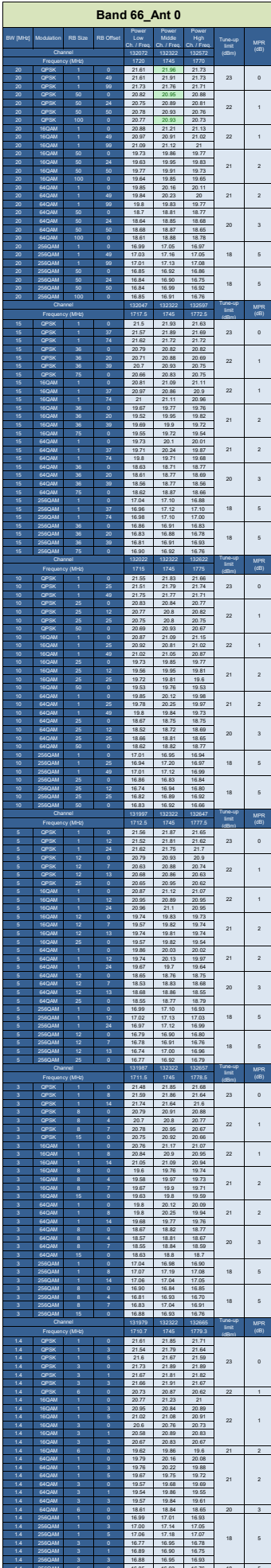


Band 5_Ant 0										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low 20460	Power High 20520	Power High Ch. Freq.	Power High Ch. Freq.	Turn-on line (dBm)	MRR (dB)	
Channel										
10	QPSK	1	0	24.60	24.64	24.59				
10	QPSK	1	25	24.54	24.57	24.54		25.7	0	
10	QPSK	1	49	24.58	24.58	24.58				
10	QPSK	25	0	23.50	23.58	23.50				
10	QPSK	25	12	23.41	23.50	23.46		24.7	1	
10	QPSK	25	20	23.34	23.37	23.41				
10	16QAM	1	0	23.92	23.48	23.81				
10	16QAM	1	25	23.87	23.42	23.78		24.7	1	
10	16QAM	1	49	23.88	23.42	23.73				
10	16QAM	25	0	22.53	22.51	22.48				
10	16QAM	25	12	22.45	22.57	22.45		23.7	2	
10	16QAM	25	20	22.37	22.47	22.59				
10	16QAM	50	0	22.30	22.30	22.37				
10	16QAM	1	25	22.30	22.79	22.48		23.7	2	
10	16QAM	1	49	22.47	22.72	22.52				
10	16QAM	25	0	21.36	21.47	21.48				
10	16QAM	25	12	21.29	21.52	21.39		22.7	3	
10	16QAM	25	20	21.29	21.54	21.37				
10	256QAM	1	0	19.94	19.94	19.93				
10	256QAM	1	25	19.82	19.87	19.86		20.7	5	
10	256QAM	1	49	19.83	19.79	19.81				
10	256QAM	25	0	19.79	19.86	19.73				
10	256QAM	25	12	19.78	19.88	19.77		20.7	5	
10	256QAM	25	20	19.78	19.75	19.71				
10	256QAM	50	0	19.83	19.99	19.84				
Channel										
Frequency (MHz)										
5	QPSK	1	0	24.43	24.45	24.41				
5	QPSK	1	12	24.45	24.31	24.40		25.7	0	
5	QPSK	1	24	24.53	24.39	24.46				
5	QPSK	12	0	23.37	23.52	23.42				
5	QPSK	12	7	23.34	23.39	23.39		24.7	1	
5	QPSK	12	14	23.26	23.43	23.35				
5	QPSK	25	0	23.31	23.47	23.37				
5	16QAM	1	0	23.87	23.44	23.75		24.7	1	
5	16QAM	1	12	23.74	23.57	23.61				
5	16QAM	1	24	23.74	23.35	23.68				
5	16QAM	12	0	22.41	22.44	22.53				
5	16QAM	12	7	22.36	22.44	22.35		23.7	2	
5	16QAM	12	13	22.30	22.47	22.20				
5	16QAM	25	0	22.39	22.38	22.47				
5	16QAM	25	7	22.33	22.43	22.33				
5	16QAM	1	12	22.23	22.75	22.40		23.7	2	
5	16QAM	1	24	22.47	22.60	22.43				
5	16QAM	12	0	21.43	21.40	21.38				
5	16QAM	12	7	21.20	21.51	21.40		22.7	3	
5	16QAM	12	13	21.24	21.45	21.27				
5	256QAM	1	0	19.93	19.87	19.84		20.7	5	
5	256QAM	1	12	19.82	19.91	19.89				
5	256QAM	1	24	19.83	19.79	19.81				
5	256QAM	12	0	19.87	19.81	19.86				
5	256QAM	12	7	19.89	19.77	19.84		20.7	5	
5	256QAM	12	13	19.82	19.78	19.71				
5	256QAM	25	0	19.68	19.77	19.71				
Channel										
Frequency (MHz)										
3	QPSK	1	0	24.53	24.47	24.42				
3	QPSK	1	8	24.49	24.38	24.52		25.7	0	
3	QPSK	1	16	24.55	24.32	24.45				
3	QPSK	8	0	23.29	23.42	23.43				
3	QPSK	8	4	23.37	23.37	23.31		24.7	1	
3	QPSK	8	12	23.32	23.43	23.33				
3	QPSK	15	0	23.36	23.42	23.35				
3	16QAM	1	0	23.83	23.41	23.75		24.7	1	
3	16QAM	1	8	23.76	23.34	23.62				
3	16QAM	1	14	23.88	23.28	23.60				
3	16QAM	8	0	22.47	22.51	22.53				
3	16QAM	8	4	22.33	22.38	22.32		23.7	2	
3	16QAM	8	7	22.27	22.34	22.33				
3	16QAM	15	0	22.32	22.42	22.46				
3	16QAM	1	0	22.31	22.24	22.50				
3	16QAM	1	8	22.29	22.61	22.47		23.7	2	
3	16QAM	1	14	22.37	22.52	22.43				
3	16QAM	8	0	21.30	21.46	21.35				
3	16QAM	8	4	21.26	21.43	21.39		22.7	3	
3	16QAM	8	7	21.14	21.50	21.22				
3	16QAM	15	0	21.29	21.37	21.32				
3	256QAM	1	0	19.84	19.95	19.90		20.7	5	
3	256QAM	1	8	19.75	19.83	19.84				
3	256QAM	1	14	19.80	19.82	19.75				
3	256QAM	8	0	19.82	19.82	19.73		20.7	5	
3	256QAM	8	4	19.87	19.72	19.86				
3	256QAM	8	7	19.83	19.74	19.83				
3	256QAM	15	0	19.78	19.81	19.75				
Channel										
Frequency (MHz)										
1.4	QPSK	1	0	24.46	24.58	24.41				
1.4	QPSK	1	3	24.44	24.30	24.45		25.7	0	
1.4	QPSK	1	5	24.48	24.26	24.44				
1.4	QPSK	3	0	24.35	24.48	24.31				
1.4	QPSK	3	1	24.35	24.23	24.30				
1.4	QPSK	3	3	24.45	24.10	24.34				
1.4	16QAM	1	0	23.90	23.43	23.71		24.7	1	
1.4	16QAM	1	3	23.76	23.38	23.73				
1.4	16QAM	1	5	23.92	23.32	23.71		24.7	1	
1.4	16QAM	3	0	23.82	23.30	23.57				
1.4	16QAM	3	1	23.63	23.30	23.66				
1.4	16QAM	3	3	23.73	23.36	23.58				
1.4	16QAM	6	0	22.27	22.46	22.43		23.7	2	
1.4	16QAM	6	1	22.23	22.11	22.61				
1.4	16QAM	1	3	22.32	22.57	22.33		23.7	2	
1.4	16QAM	1	5	22.40	22.67	22.47				
1.4	16QAM	3	0	22.22	21.90	22.53				
1.4	16QAM	3	1	22.09	22.52	22.23				
1.4	16QAM	6	0	21.29	21.39	21.41		22.7	3	
1.4	256QAM	1	0	19.84	19.86	19.93				
1.4	256QAM	1	3	19.76	19.83	19.85		20.7	5	
1.4	256QAM	1	5	19.82	19.95	19.74				
1.4	256QAM	3	0	19.80	19.78	19.87				
1.4	256QAM	3	1	19.85	19.81	19.88				
1.4	256QAM	3	3	19.89	19.73	19.87				
1.4	256QAM	6	0	19.75	19.89	19.70		20.7	5	

Band 5_Ant 1										
BW (MHz)	Modulation	Channel	RB Size	RB Offset	Power Low 20460	Power High 20520	Power High Ch. Freq.	Power High Ch. Freq.	Turnup line (dBm)	MRR (dB)
Frequency (MHz)										
10	QPSK	1	0	19.57	19.68	19.60				
10	QPSK	1	25	19.58	19.65	19.68		20.7	0	
10	QPSK	1	49	19.64	19.48	19.65				
10	QPSK	25	0	19.59	19.67	19.60				
10	QPSK	25	12	19.58	19.59	19.65		20.7	0	
10	QPSK	25	20	19.62	19.63	19.63				
10	QPSK	50	0	19.64	19.66	19.62				
10	16QAM	1	0	19.61	19.61	19.52				
10	16QAM	1	25	19.58	19.65	19.58		20.7	0	
10	16QAM	1	49	19.52	19.66	19.58				
10	16QAM	25	0	19.59	19.67	19.60				
10	16QAM	25	12	19.58	19.59	19.65		20.7	0	
10	16QAM	25	20	19.60	19.64	19.57				
10	16QAM	50	0	19.64	19.61	19.64				
10	256QAM	1	0	19.61	19.66	19.52				
10	256QAM	1	25	19.54	19.51	19.41		20.7	0	
10	256QAM	1	49	19.51	19.68	19.52				
10	256QAM	25	0	19.26	19.40	19.23				
10	256QAM	25	12	19.34	19.48	19.42		20.7	0	
10	256QAM	25	20	19.38	19.28	19.23				
10	256QAM	50	0	19.25	19.35	19.19		Unsup- port- ed		
Frequency (MHz)										
5	QPSK	1	0	19.53	19.60	19.58				
5	QPSK	1	12	19.49	19.54	19.60		20.7	0	
5	QPSK	1	24	19.49	19.49	19.49				
5	QPSK	12	0	19.50	19.60	19.61				
5	QPSK	12	7	19.55	19.56	19.60		20.7	0	
5	QPSK	12	14	19.57	19.53	19.48				
5	QPSK	25	0	19.58	19.64	19.60				
5	16QAM	1	0	19.43	19.58	19.49		20.7	0	
5	16QAM	1	12	19.45	19.58	19.58				
5	16QAM	1	24	19.40	19.48	19.52				
5	16QAM	12	0	19.45	19.60	19.42		20.7	0	
5	16QAM	12	7	19.44	19.54	19.45				
5	16QAM	12	14	19.55	19.53	19.48				
5	16QAM	25	0	19.55	19.57	19.61		20.7	0	
5	16QAM	25	12	19.56	19.57	19.61				
5	256QAM	1	0	19.56	19.57	19.58				
5	256QAM	12	7	19.54	19.49	19.55				
5	256QAM	12	14	19.56	19.49	19.51		20.7	0	
5	256QAM	25	0	19.47	19.56	19.48				
5	256QAM	25	0	19.83	19.83	19.48				
5	256QAM	1	12	19.50	19.39	19.38		20.7	0	
5	256QAM	1	24	19.48	19.48	19.48				
5	256QAM	12	0	19.14	19.37	19.15				
5	256QAM	12	7	19.25	19.42	19.25		20.7	0	
5	256QAM	12	14	19.28	19.27	19.23				
5	256QAM	25	0	19.23	19.23	19.15		Unsup- port- ed		
Frequency (MHz)										
3	QPSK	1	0	19.54	19.64	19.55				
3	QPSK	1	8	19.55	19.54	19.61		20.7	0	
3	QPSK	1	16	19.61	19.56	19.61				
3	QPSK	8	0	19.47	19.60	19.63				
3	QPSK	8	4	19.56	19.52	19.61		20.7	0	
3	16QAM	1	0	19.49	19.57	19.48				
3	16QAM	1	8	19.50	19.53	19.43				
3	16QAM	8	0	19.49	19.50	19.60		20.7	0	
3	16QAM	1	14	19.41	19.56	19.55				
3	16QAM	8	4	19.49	19.55	19.51				
3	16QAM	8	8	19.51	19.58	19.48		20.7	0	
3	16QAM	15	0	19.57	19.49	19.58				
3	16QAM	8	16	19.51	19.53	19.54				
3	16QAM	1	8	19.56	19.51	19.58		20.7	0	
3	64QAM	1	14	19.51	19.67	19.38				
3	64QAM	8	16	19.58	19.54	19.54				
3	64QAM	8	4	19.59	19.58	19.57		20.7	0	
3	64QAM	8	7	19.56	19.63	19.52				
3	256QAM	1	0	19.43	19.53	19.53				
3	256QAM	1	0	19.58	19.60	19.50				
3	256QAM	1	8	19.43	19.43	19.37		20.7	0	
3	256QAM	8	0	19.46	19.32	19.32				
3	256QAM	8	0	19.19	19.36	19.17				
3	256QAM	8	4	19.22	19.44	19.33		20.7	0	
3	256QAM	8	7	19.25	19.36	19.22				
3	256QAM	15	0	19.21	19.24	19.20				
Frequency (MHz)										
1.4	QPSK	1	0	19.51	19.64	19.55				
1.4	QPSK	1	3	19.51	19.54	19.60		20.7	0	
1.4	QPSK	1	5	19.56	19.59	19.49				
1.4	QPSK	1	9	19.56	19.54	19.65				
1.4	QPSK	3	1	19.55	19.49	19.58				
1.4	QPSK	3	3	19.57	19.63	19.44		20.7	0	
1.4	QPSK	3	5	19.51	19.61	19.51				
1.4	16QAM	1	0	19.49	19.64	19.43				
1.4	16QAM	1	3	19.50	19.61	19.49		20.7	0	
1.4	16QAM	1	5	19.51	19.57	19.59				
1.4	16QAM	3	1	19.56	19.52	19.48				
1.4	16QAM	3	3	19.49	19.61	19.45				
1.4	16QAM	3	5	19.49	19.61	19.45				
1.4	16QAM	6	0	19.57	19.52	19.50		20.7	0	
1.4	16QAM	6	3	19.52	19.60	19.47				
1.4	16QAM	6	5	19.47	19.58	19.43				
1.4	16QAM	6	7	19.52	19.57	19.47				
1.4	64QAM	1	3	19.55	19.56	19.62				
1.4	64QAM	3	3	19.50	19.48	19.49		20.7	0	
1.4	64QAM	3	5	19.49	19.49	19.49				
1.4	256QAM	1	3	19.54	19.57	19.41				
1.4	256QAM	1	5	19.45	19.44	19.36				
1.4	256QAM	3	3	19.45	19.41	19.41		20.7	0	
1.4	256QAM	3	5	19.51	19.36	19.36				
1.4	256QAM	3	7	19.32	19.44	19.29				
1.4	256QAM	6	3	19.32	19.29	19.29				
1.4	256QAM	6	5	19.18	19.23	19.08		20.7	0	



Band 7_Ant 2														
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. Freq. 20960	Power Middle Ch. Freq. 21100	Power High Ch. Freq. 21360	Turn-up time (min)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	23.57	23.63	23.48	24.5	0						
20	QPSK	1	49	23.51	23.48	23.38								
20	QPSK	1	99	23.59	23.49	23.43								
20	QPSK	50	0	22.52	22.53	22.44								
20	QPSK	50	24	22.51	22.45	22.35	23.5	1						
20	QPSK	50	24	22.39	22.47	22.24								
20	QPSK	100	0	22.43	22.47	22.35								
20	QPSK	100	0	22.59	22.46	22.5								
20	16QAM	1	0	22.57	22.54	22.54	23.5	1						
20	16QAM	1	99	22.67	22.37	22.7								
20	16QAM	50	0	21.18	21.43	21.37								
20	16QAM	50	24	21.24	21.39	21.32								
20	16QAM	50	50	21.34	21.52	21.38	22.5	2						
20	16QAM	100	0	21.24	21.39	21.33								
20	16QAM	100	0	21.24	21.52	21.38								
20	16QAM	100	0	21.24	21.39	21.33								
20	16QAM	1	49	21.36	21.55	21.41	22.5	2						
20	16QAM	1	99	21.48	21.57	21.87								
20	16QAM	50	24	20.79	20.35	20.34								
20	16QAM	50	24	20.17	20.39	20.33								
20	256QAM	1	0	18.08	18.36	18.15	21.5	3						
20	256QAM	1	49	18.18	18.32	18.29								
20	256QAM	1	99	18.52	18.33	18.27								
20	256QAM	50	0	18.16	18.30	18.19								
20	256QAM	50	24	18.12	18.36	18.24	19.5	5						
20	256QAM	50	24	18.33	18.36	18.17								
20	256QAM	100	0	18.17	18.27	18.19								
20	256QAM	100	0	18.63	21.00	21.75								
Channel														
Frequency (MHz)														
15	QPSK	1	0	23.56	23.51	23.5	24.5	0						
15	QPSK	1	37	23.52	23.4	23.37								
15	QPSK	1	73	23.52	23.3	23.47								
15	QPSK	36	0	22.46	22.49	22.32								
15	QPSK	36	20	22.39	22.38	22.35	23.5	1						
15	QPSK	36	20	22.32	22.32	22.34								
15	QPSK	75	0	22.4	22.41	22.34								
15	16QAM	1	0	22.54	22.38	22.51								
15	16QAM	1	37	22.52	22.62	22.47	23.5	1						
15	16QAM	1	74	22.61	22.62	22.6								
15	16QAM	36	0	21.68	21.32	21.38								
15	16QAM	36	20	21.22	21.32	21.34								
15	16QAM	36	39	21.29	21.5	21.3	22.5	2						
15	16QAM	75	0	21.11	21.29	21.23								
15	16QAM	75	0	21.1	21.35	21.32								
15	16QAM	1	37	21.34	21.44	21.43								
15	16QAM	1	74	21.43	21.52	21.6	22.5	2						
15	16QAM	36	20	20.63	20.39	20.41								
15	16QAM	36	20	20.11	20.39	20.35								
15	16QAM	36	39	20.2	20.34	20.37								
15	256QAM	1	0	18.04	18.27	18.19	19.5	5						
15	256QAM	1	37	18.17	18.24	18.30								
15	256QAM	1	74	18.37	18.3	18.27								
15	256QAM	36	0	18.17	18.36	18.13								
15	256QAM	36	20	18.03	18.31	18.23	19.5	5						
15	256QAM	36	20	18.28	18.3	18.16								
15	256QAM	75	0	18.17	18.28	18.19								
15	256QAM	75	0	18.63	21.00	21.60								
Channel														
Frequency (MHz)														
10	QPSK	1	0	23.47	23.51	23.48	24.5	0						
10	QPSK	1	25	23.44	23.37	23.28								
10	QPSK	1	24	23.41	23.43	23.31								
10	QPSK	25	0	22.42	22.47	22.35								
10	QPSK	25	12	22.47	22.37	22.35	23.5	1						
10	QPSK	25	12	22.32	22.39	22.32								
10	QPSK	50	0	22.42	22.39	22.35								
10	16QAM	1	0	22.53	22.44	22.47								
10	16QAM	1	0	22.47	22.55	22.48	23.5	1						
10	16QAM	1	49	22.69	22.68	22.7								
10	16QAM	25	0	21.13	21.38	21.33								
10	16QAM	25	12	21.21	21.34	21.29								
10	16QAM	25	25	21.26	21.48	21.33	22.5	2						
10	16QAM	50	0	21.12	21.27	21.34								
10	16QAM	50	24	21.38	21.38	21.37								
10	16QAM	1	0	21.25	21.5	21.29								
10	16QAM	1	49	21.41	21.53	21.62	22.5	2						
10	16QAM	1	99	20.88	20.38	20.39								
10	16QAM	25	12	20.07	20.39	20.28								
10	16QAM	25	25	20.22	20.4	20.43								
10	256QAM	1	0	18.07	18.36	18.14	19.5	5						
10	256QAM	1	25	18.09	18.26	18.26								
10	256QAM	1	49	18.31	18.29	18.27								
10	256QAM	25	0	18.21	18.52	18.12								
10	256QAM	25	12	18.07	18.31	18.24	19.5	5						
10	256QAM	25	12	18.36	18.35	18.07								
10	256QAM	50	0	18.15	18.28	18.19								
10	256QAM	50	0	18.78	21.00	21.42								
Channel														
Frequency (MHz)														
5	QPSK	1	0	23.54	23.57	23.4	24.5	0						
5	QPSK	1	12	23.5	23.48	23.38								
5	QPSK	1	24	23.41	23.43	23.31								
5	QPSK	12	0	22.49	22.48	22.38								
5	QPSK	12	7	22.42	22.43	22.23	23.5	1						
5	QPSK	12	13	22.26	22.4	22.4								
5	QPSK	25	0	22.44	22.48	22.27								
5	16QAM	1	0	22.5	22.25	22.43								
5	16QAM	1	12	22.48	22.63	22.48	23.5	1						
5	16QAM	1	24	22.59	22.71	22.61								
5	16QAM	12	0	21.14	21.38	21.32								
5	16QAM	12	7	21.23	21.39	21.32								
5	16QAM	12	13	21.34	21.4	21.27	22.5	2						
5	16QAM	25	0	21.19	21.27	21.21								
5	16QAM	1	0	21.3	21.59	21.37								
5	16QAM	1	12	21.31	21.42	21.42								
5	16QAM	1	24	21.48	21.47	21.56	22.5	2						
5	16QAM	12	13	20.28	20.4	20.32								
5	16QAM	25	0	20.19	20.28	20.36								
5	256QAM	1	0	18.11	18.59	18.08								
5	256QAM	1	12	18.09	18.24	18.23	19.5	5						
5	256QAM	1	24	18.32	18.33	18.17								
5	256QAM	12	0	18.17	18.58	18.18								
5	256QAM	12	7	18.52	18.56	18.26								
5	256QAM	12	13	18.31	18.32	18.20	19.5	5						
5	256QAM	25	0	18.16	18.16	18.24								



Band 66_Ant 1												
SpT (MHz)	Modulation	RB Size	RB Offset	Power (mW)	Power (mW)	Power (mW)	Power (mW)	Power (mW)	Power (mW)	Power (mW)	Turn-on time (dBm)	MPE (dB)
Channel 1												
Frequency (MHz)												
20	QPSK	1	0	14.91	15.02	14.91	15.02	14.91	15.02	14.91	15.02	16.0
20	QPSK	20	24	14.91	15.02	14.91	15.02	14.91	15.02	14.91	15.02	16.0
20	QPSK	50	0	14.94	15.03	14.93	15.03	14.93	15.03	14.93	15.03	16.0
20	QPSK	50	24	14.93	15.03	14.93	15.03	14.93	15.03	14.93	15.03	16.0
20	QPSK	50	50	14.91	15.01	14.91	15.01	14.91	15.01	14.91	15.01	16.0
20	QPSK	100	0	14.91	14.97	14.91	14.97	14.91	14.97	14.91	14.97	16.0
20	QPSK	100	24	14.91	14.97	14.91	14.97	14.91	14.97	14.91	14.97	16.0
20	QPSK	100	50	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	74	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	100	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	124	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	150	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	174	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	200	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	224	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	250	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	274	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	300	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	324	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	350	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	374	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	400	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	424	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	450	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	474	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	500	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	524	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	550	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	574	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	600	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	624	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	650	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	674	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	700	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	724	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	750	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	774	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	800	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	824	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	850	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	874	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	900	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	924	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	950	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	974	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1000	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1024	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1050	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1074	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1100	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1124	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1150	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1174	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1200	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1224	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1250	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1274	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1300	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1324	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1350	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1374	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1400	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1424	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1450	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1474	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1500	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1524	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1550	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1574	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1600	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1624	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1650	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1674	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1700	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1724	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1750	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1774	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1800	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1824	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1850	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1874	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1900	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1924	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1950	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	1974	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	2000	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	2024	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	2050	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	2074	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	2100	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	2124	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	2150	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	2174	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	2200	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	2224	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	2250	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	2274	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100	2300	14.90	15.01	14.90	15.01	14.90	15.01	14.90	15.01	16.0
20	QPSK	100										

Band 66_Ant 2												
HW (MHz)	Modulation	Channel	RF Offset	Power Ch./Frac.	Power Frac./Frac.	Power Ch./Frac.	Turn-on Time (ms)	APRS (dB)				
Channel												
Frequency (MHz)												
20	QPSK	1	0	23.14	23.22	23.07			24	0		
20	QPSK	1	99	23.17	23.25	23.07						
20	QPSK	1	99	23.17	23.25	22.83						
20	QPSK	80	0	22.14	22.22	22.09						
20	QPSK	80	99	22.16	22.24	22.09						
20	QPSK	80	99	22.16	22.21	21.94			23	1		
20	QPSK	100	0	22.12	22.18	21.97						
20	QPSK	100	99	22.13	22.19	21.97						
20	QPSK	100	99	22.13	22.19	21.74						
20	QPSK	100	99	22.13	22.19	21.51						
20	QPSK	1	49	22.20	22.27	22.14			22	2		
20	QPSK	1	99	22.31	22.38	22.17						
20	QPSK	1	99	22.31	22.38	22.04						
20	QPSK	80	0	21.08	21.17	21.02						
20	QPSK	80	99	21.09	21.17	21.02						
20	QPSK	80	99	21.09	21.17	20.82			21	3		
20	QPSK	100	0	20.08	20.11	19.96						
20	QPSK	100	99	20.09	20.17	19.96						
20	QPSK	100	99	20.09	20.17	19.73						
20	QPSK	100	99	20.09	20.17	19.50						
20	QPSK	1	0	17.98	17.97	18.02			19			
20	QPSK	1	99	17.99	17.98	18.02						
20	QPSK	1	99	17.99	17.98	17.88						
20	QPSK	80	0	17.83	17.86	17.88						
20	QPSK	80	99	17.83	17.87	17.88						
20	QPSK	80	99	17.83	17.87	17.68			18			
20	QPSK	100	0	17.68	17.72	17.68						
20	QPSK	100	99	17.68	17.72	17.50						
20	QPSK	100	99	17.68	17.72	17.29						
20	QPSK	100	99	17.68	17.72	16.97						
Channel												
Frequency (MHz)												
15	QPSK	1	0	17.17.5	17.46	17.23			24	0		
15	QPSK	1	99	17.17.5	17.46	17.23						
15	QPSK	1	99	17.17.5	17.46	17.00						
15	QPSK	80	0	22.03	22.05	21.88						
15	QPSK	80	99	22.03	22.05	21.88						
15	QPSK	80	99	22.04	22.1	21.88			23	1		
15	QPSK	100	0	22.03	22.1	21.8						
15	QPSK	100	99	22.03	22.04	21.8						
15	QPSK	100	99	22.03	22.04	21.59						
15	QPSK	100	99	22.03	22.04	21.36						
15	QPSK	1	37	22.18	22.25	22.1			22	2		
15	QPSK	1	74	22.27	22.34	22.19						
15	QPSK	1	74	22.27	22.34	22.06						
15	QPSK	80	0	21.07	21.11	20.92						
15	QPSK	80	99	21.07	21.11	20.92						
15	QPSK	80	99	21.07	21.11	20.69			21	3		
15	QPSK	100	0	20.08	20.12	20.08						
15	QPSK	100	99	20.08	20.12	20.08						
15	QPSK	100	99	20.08	20.12	19.85						
15	QPSK	100	99	20.08	20.12	19.62						
15	QPSK	1	0	21.12	21.29	21.13			20			
15	QPSK	1	99	21.13	21.30	21.13						
15	QPSK	1	99	21.13	21.30	21.00						
15	QPSK	80	0	20.09	20.12	20.09						
15	QPSK	80	99	20.10	20.13	20.09						
15	QPSK	80	99	20.10	20.13	19.86			19			
15	QPSK	100	0	19.09	19.12	19.09						
15	QPSK	100	99	19.10	19.13	19.09						
15	QPSK	100	99	19.10	19.13	18.86						
15	QPSK	100	99	19.10	19.13	18.63						
Channel												
Frequency (MHz)												
10	QPSK	1	0	23.09	23.17	22.94			24	0		
10	QPSK	1	12	23.08	23.12	22.82						
10	QPSK	1	24	23.07	23.14	22.84						
10	QPSK	12	0	21.99	22.1	21.84						
10	QPSK	12	12	21.99	22.1	21.79						
10	QPSK	12	12	21.99	22.1	21.74			23	1		
10	QPSK	80	0	21.99	22.1	21.84						
10	QPSK	80	99	21.99	22.1	21.84						
10	QPSK	80	99	21.99	22.1	21.61						
10	QPSK	80	99	21.99	22.1	21.38						
10	QPSK	1	0	22.12	22.32	22.07			22	2		
10	QPSK	1	12	22.11	22.31	22.07						
10	QPSK	1	24	22.13	22.29	21.97						
10	QPSK	12	0	20.97	21.1	20.85						
10	QPSK	12	12	20.98	21.08	20.81						
10	QPSK	12	12	20.97	21.04	20.75			21	3		
10	QPSK	80	0	20.97	21.1	20.84						
10	QPSK	80	99	20.97	21.05	20.82						
10	QPSK	80	99	20.97	21.02	20.77						
10	QPSK	80	99	20.97	21.02	20.57						
10	QPSK	1	12	21.04	21.19	20.97			20			
10	QPSK	1	24	21.04	21.19	20.86						
10	QPSK	12	0	19.96	20.05	19.86						
10	QPSK	12	7	19.96	20.05	19.81						
10	QPSK	12	13	19.92	20.05	19.75						
10	QPSK	12	13	19.92	20.05	19.56			19			
10	QPSK	80	0	17.87	17.94	17.84						
10	QPSK	80	99	17.87	18.01	17.96						
10	QPSK	80	99	17.86	17.96	17.87						
10	QPSK	80	99	17.86	17.94	17.74						
10	QPSK	1	0	17.92	17.98	18.02			18			
10	QPSK	1	12	17.96	18.00	17.97						
10	QPSK	1	24	17.96	18.00	17.86						
10	QPSK	80	0	17.78	17.86	17.88						
10	QPSK	80	99	17.78	17.86	17.68						
10	QPSK	80	99	17.78	17.86	17.56			17			
10	QPSK	100	0	17.64	17.69	17.64						
10	QPSK	100	99	17.64	17.69	17.50						
10	QPSK	100	99	17.64	17.69	17.29						
10	QPSK	100	99	17.64	17.69	17.09						
Channel												
Frequency (MHz)												
5	QPSK	1	0	23.02	23.12	22.84			24	0		
5	QPSK	1	8	22.98	23.12	22.82						
5	QPSK	1	16	22.99	23.14	22.84						
5	QPSK	8	0	21.96	22.12	21.81						
5	QPSK	8	8	21.95	22.06	21.78						
5	QPSK	8	8	21.96	22.08	21.8			23	1		
5	QPSK	16	0	21.96	22.08	21.8						
5	QPSK	16	16	21.96	22.29	21.83						
5	QPSK	16	16	21.97	22.18	21.87						
5	QPSK	16	16	21.96	22.12	21.86						
5	QPSK	8	7	21.14	21.29	21.07			22	2		
5	QPSK	8	15	21.06	21.29	21.03						
5	QPSK	8	15	21.06	21.29	20.88						
5	QPSK	8	15	21.06	21.29	20.63						
5	QPSK	8	15	21.06	21.29	20.38						
5	QPSK	1	8	21.03	21.19	20.87			21	3		
5	QPSK	1	16	21.04	21.18	20.87						
5	QPSK	8	0	19.93	20.03	19.81						
5	QPSK	8	4	19.93	20.05	19.82						
5	QPSK	8	4	19.93	20.05	19.57						
5	QPSK	8	4	19.93	20.05	19.31			20			
5	QPSK	16	0	17.84	17.86	17.87						
5	QPSK	16	8	17.84	17.86	17.68						
5	QPSK	16	8	17.84	17.87	17.50						
5	QPSK	16	8	17.84	17.87	17.29						
5	QPSK	1	0	17.86	17.88	18.07			19			
5	QPSK	1	8	17.86	17.88	18.00						
5	QPSK	1	16	17.86	17.88	17.86						
5	QPSK	8	0	17.73	17.86	17.82						
5	QPSK	8	7	17.73	17.86	17.55						
Channel												
Frequency (MHz)												
1.4	QPSK	1	0	22.93	23.1	22.76			24	0		
1.4	QPSK	1	8	22.92	23.1	22.76						
1.4	QPSK	1	16	22.93	23.1	22.76						
1.4	QPSK	8	0	21.93	22.06	21.74						
1.4	QPSK	8	8	21.93	22.04	21.76						
1.4	QPSK	8	8	21.93	22.07	21.76			23	1		
1.4	QPSK	16	0	21.90	22.08	21.76						
1.4	QPSK	16	16	21.92	22.27	21.81						
1.4	QPSK	16	16	21.92	22.27	21.76						
1.4	QPSK	16	16	21.92	22.27	21.51						
1.4	QPSK	1	5	21.94	22.08	21.79			22	2		
1.4	QPSK	1	11	21.91	22.03	21.73						
1.4	QPSK	1	11	21.91	22.03	21.58						
1.4	QPSK	8	0	20.92	21.13	20.84						
1.4	QPSK	8	4	20.94	21.09	20.85						
1.4	QPSK	8	4	20.93	20.93	20.74			21	3		
1.4	QPSK	16	0	19.87	20.07	19.81						
1.4	QPSK	16	8	19.87	20.07	19.64						
1.4	QPSK	16	8	19.87	20.07	19.41						
1.4	QPSK	16	8	19.87	20.07	19.16						
1.4	QPSK	1	5	17.76	17.87	17.91			19	5		
1.4	QPSK	1	11	17.76	17.87	17.86						
1.4	QPSK	1	11	17.76	17.87	17.71						
1.4	QPSK	8	0	17.68	17.86	17.82						
1.4	QPSK	8	7	17.68	17.86	17.58						

Band 66_Ant_3												
RF (MHz)	Modulation	RF Band	RF Offset	Power Ch/Freq	Power Ch/Freq	Power Ch/Freq	Power Ch/Freq	Power Ch/Freq	Power Ch/Freq	Power Ch/Freq	Power Ch/Freq	Power Ch/Freq
Channel												
Frequency (MHz)												
28	QPSK	1	0	17.82	18.12	18.02	18.02	18.02	18.02	18.02	18.02	18.02
28	QPSK	1	49	17.82	18.12	18.02	18.02	18.02	18.02	18.02	18.02	18.02
28	QPSK	1	99	17.82	18.12	18.02	18.02	18.02	18.02	18.02	18.02	18.02
28	QPSK	50	0	17.7	18.04	17.89	17.89	17.89	17.89	17.89	17.89	17.89
28	QPSK	50	24	17.73	17.99	17.89	17.89	17.89	17.89	17.89	17.89	17.89
28	QPSK	50	50	17.72	17.91	17.84	17.84	17.84	17.84	17.84	17.84	17.84
28	QPSK	100	0	17.71	17.97	17.87	17.87	17.87	17.87	17.87	17.87	17.87
28	QPSK	100	24	17.73	17.99	17.89	17.89	17.89	17.89	17.89	17.89	17.89
28	16QAM	1	49	17.61	18.06	18.06	18.06	18.06	18.06	18.06	18.06	18.06
28	16QAM	1	99	17.66	18.07	18.03	18.03	18.03	18.03	18.03	18.03	18.03
28	16QAM	50	0	17.63	17.96	17.86	17.86	17.86	17.86	17.86	17.86	17.86
28	16QAM	50	24	17.68	18.05	18.04	18.04	18.04	18.04	18.04	18.04	18.04
28	16QAM	50	50	17.69	18.00	17.95	17.95	17.95	17.95	17.95	17.95	17.95
28	16QAM	100	0	17.64	17.98	17.93	17.93	17.93	17.93	17.93	17.93	17.93
28	16QAM	100	24	17.65	17.99	17.96	17.96	17.96	17.96	17.96	17.96	17.96
28	16QAM	100	50	17.64	17.98	17.93	17.93	17.93	17.93	17.93	17.93	17.93
28	16QAM	1	5	17.64	18.05	18.06	18.06	18.06	18.06	18.06	18.06	18.06
28	16QAM	1	49	17.71	18.04	18.03	18.03	18.03	18.03	18.03	18.03	18.03
28	16QAM	1	99	17.76	18.05	18.06	18.06	18.06	18.06	18.06	18.06	18.06
28	16QAM	50	24	17.73	17.96	17.90	17.90	17.90	17.90	17.90	17.90	17.90
28	16QAM	50	50	17.76	17.99	17.93	17.93	17.93	17.93	17.93	17.93	17.93
28	16QAM	100	0	17.72	17.89	17.85	17.85	17.85	17.85	17.85	17.85	17.85
28	16QAM	100	24	17.77	17.99	17.90	17.90	17.90	17.90	17.90	17.90	17.90
28	16QAM	100	50	17.72	17.86	17.81	17.81	17.81	17.81	17.81	17.81	17.81
28	16QAM	1	99	17.83	17.75	17.82	17.82	17.82	17.82	17.82	17.82	17.82
28	16QAM	1	49	17.70	17.88	17.87	17.87	17.87	17.87	17.87	17.87	17.87
28	16QAM	50	24	17.68	17.97	17.93	17.93	17.93	17.93	17.93	17.93	17.93
28	16QAM	50	50	17.70	17.83	17.69	17.69	17.69	17.69	17.69	17.69	17.69
28	16QAM	100	0	17.73	17.81	17.73	17.73	17.73	17.73	17.73	17.73	17.73
Channel												
Frequency (MHz)												
19	QPSK	1	0	15.04	15.32	15.22	15.22	15.22	15.22	15.22	15.22	15.22
19	QPSK	1	5	17.15	18.14	17.25	17.25	17.25	17.25	17.25	17.25	17.25
19	QPSK	1	9	17.8	18.03	18.03	18.03	18.03	18.03	18.03	18.03	18.03
19	QPSK	1	49	17.88	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07
19	QPSK	1	74	17.81	18.04	17.94	17.94	17.94	17.94	17.94	17.94	17.94
19	QPSK	5	0	17.61	17.92	17.82	17.82	17.82	17.82	17.82	17.82	17.82
19	QPSK	5	24	17.76	17.97	17.89	17.89	17.89	17.89	17.89	17.89	17.89
19	QPSK	5	36	17.65	17.79	17.77	17.77	17.77	17.77	17.77	17.77	17.77
19	QPSK	75	0	17.69	17.90	17.82	17.82	17.82	17.82	17.82	17.82	17.82
19	QPSK	75	24	17.73	17.92	17.81	17.81	17.81	17.81	17.81	17.81	17.81
19	QPSK	75	36	17.63	17.78	17.76	17.76	17.76	17.76	17.76	17.76	17.76
19	16QAM	1	37	17.63	17.98	18.02	18.02	18.02	18.02	18.02	18.02	18.02
19	16QAM	1	74	17.63	17.97	17.89	17.89	17.89	17.89	17.89	17.89	17.89
19	16QAM	5	0	17.58	17.97	17.85	17.85	17.85	17.85	17.85	17.85	17.85
19	16QAM	5	24	17.61	17.98	17.91	17.91	17.91	17.91	17.91	17.91	17.91
19	16QAM	5	36	17.55	17.98	17.91	17.91	17.91	17.91	17.91	17.91	17.91
19	16QAM	75	0	17.59	17.94	17.87	17.87	17.87	17.87	17.87	17.87	17.87
19	16QAM	75	24	17.63	17.96	17.89	17.89	17.89	17.89	17.89	17.89	17.89
19	16QAM	75	36	17.58	18.07	18.03	18.03	18.03	18.03	18.03	18.03	18.03
19	16QAM	1	5	17.64	18.07	18.06	18.06	18.06	18.06	18.06	18.06	18.06
19	16QAM	36	5	17.62	17.91	17.84	17.84	17.84	17.84	17.84	17.84	17.84
19	16QAM	36	24	17.67	17.96	17.89	17.89	17.89	17.89	17.89	17.89	17.89
19	16QAM	36	36	17.71	17.94	17.96	17.96	17.96	17.96	17.96	17.96	17.96
19	16QAM	75	0	17.65	17.77	17.68	17.68	17.68	17.68	17.68	17.68	17.68
19	16QAM	75	24	17.69	17.78	17.67	17.67	17.67	17.67	17.67	17.67	17.67
19	16QAM	75	36	17.63	17.78	17.68	17.68	17.68	17.68	17.68	17.68	17.68
19	16QAM	1	37	17.75	17.87	17.64	17.64	17.64	17.64	17.64	17.64	17.64
19	25QAM	1	74	17.60	17.73	17.73	17.73	17.73	17.73	17.73	17.73	17.73
19	25QAM	36	2	17.60	17.72	17.72	17.72	17.72	17.72	17.72	17.72	17.72
19	25QAM	36	25	17.64	17.57	17.63	17.63	17.63	17.63	17.63	17.63	17.63
19	25QAM	36	50	17.68	17.76	17.67	17.67	17.67	17.67	17.67	17.67	17.67
19	25QAM	36	99	17.48	17.76	17.67	17.67	17.67	17.67	17.67	17.67	17.67
19	25QAM	36	124	17.64	17.69	17.69	17.69	17.69	17.69	17.69	17.69	17.69
Channel												
Frequency (MHz)												
19	QPSK	1	0	15.04	15.32	15.22	15.22	15.22	15.22	15.22	15.22	15.22
19	QPSK	1	25	17.15	18.14	17.25	17.25	17.25	17.25	17.25	17.25	17.25
19	QPSK	1	49	17.87	18.07	18.07	18.07	18.07	18.07	18.07	18.07	18.07
19	QPSK	25	12	17.69	17.97	17.88	17.88	17.88	17.88	17.88	17.88	17.88
19	QPSK	25	25	17.64	17.81	17.73	17.73	17.73	17.73	17.73	17.73	17.73
19	QPSK	25	37	17.63	17.82	17.81	17.81	17.81	17.81	17.81	17.81	17.81
19	16QAM	1	5	17.64	17.97	17.96	17.96	17.96	17.96	17.96	17.96	17.96
19	16QAM	1	25	17.69	17.99	18.03	18.03	18.03	18.03	18.03	18.03	18.03
19	16QAM	1	49	17.74	18.04	18.04	18.04	18.04	18.04	18.04	18.04	18.04
19	16QAM	25	0	17.64	17.96	17.82	17.82	17.82	17.82	17.82	17.82	17.82
19	16QAM	25	12	17.61	17.94	17.83	17.83	17.83	17.83	17.83	17.83	17.83
19	16QAM	25	25	17.67	17.93	17.85	17.85	17.85	17.85	17.85	17.85	17.85
19	16QAM	25	37	17.63	17.95	17.86	17.86	17.86	17.86	17.86	17.86	17.86
19	16QAM	25	49	17.67	17.96	17.94	17.94	17.94	17.94	17.94	17.94	17.94
19	16QAM	50	0	17.62	17.83	17.65	17.65	17.65	17.65	17.65	17.65	17.65
19	16QAM	50	12	17.63	17.8	17.64	17.64	17.64	17.64	17.64	17.64	17.64
19	16QAM	50	25	17.63	17.86	17.82	17.82	17.82	17.82	17.82	17.82	17.82
19	16QAM	50	37	17.63	17.87	17.86	17.86	17.86	17.86	17.86	17.86	17.86
19	16QAM	50	49	17.63	17.86	17.86	17.86	17.86	17.86	17.86	17.86	17.86
19	16QAM	1	49	17.8	18.06	18.06	18.06	18.06	18.06	18.06	18.06	18.06
19	16QAM	25	0	17.63	17.93	17.8	17.8	17.8	17.8	17.8	17.8	17.8
19	16QAM	25	12	17.61	17.91	17.81	17.81	17.81	17.81	17.81	17.81	17.81
19	16QAM	25	25	17.63	17.95	17.86	17.86	17.86	17.86	17.86	17.86	17.86
19	16QAM	25	37	17.67	17.96	17.94	17.94	17.94	17.94	17.94	17.94	17.94
19	16QAM	25	49	17.67	17.96	17.96	17.96	17.96	17.96	17.96	17.96	17.96
19	25QAM	1	0	17.66	17.66	17.66	17.66	17.66	17.66	17.66	17.66	17.66
19	25QAM	1	25	17.64	17.59	17.63	17.63	17.63	17.63	17.63	17.63	17.63
19	25QAM	1	49	17.64	17.66	17.66	17.66	17.66	17.66	17.66	17.66	17.66
19	25QAM	25	0	17.68	17.80	17.69	17.69	17.69	17.69	17.69	17.69	17.69
19	25QAM	25	12	17.64	17.64	17.64	17.64	17.64	17.64	17.64	17.64	17.64
19	25QAM	25	25	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63
19	25QAM	25	37	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63	17.63
19	25QAM	50	0	17.54	17.50	17.57	17.57	17.57	17.57	17.57	17.57	17.57
Channel												
Frequency (MHz)												
3	QPSK	1	0	18.81	18.96	18.86	18.86	18.86	18.86	18.86	18.86	18.86
3	QPSK	1	12	18.69	18.74	18.73	18.73	18.73	18.73	18.73	18.73	18.73
3	QPSK	1	24	18.61	18.73	18.76	18.76	18.76	18.76	18.76	18.76	18.76
3	QPSK	12	7	17.8	18.37	18.34</						



Band 38_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPE (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	22.76	22.88	22.97			
20	QPSK	1	49	22.82	22.82	22.96	24	0	
20	QPSK	1	99	22.80	22.86	22.93			
20	QPSK	50	24	21.71	21.79	21.79			
20	QPSK	50	24	21.82	21.74	21.68	23	1	
20	QPSK	100	5	21.80	21.74	21.77			
20	QPSK	100	5	21.82	21.85	21.82			
20	16QAM	1	0	21.70	21.82	21.79	23	1	
20	16QAM	1	49	21.75	22.02	21.75			
20	16QAM	1	99	21.71	21.82	21.76			
20	16QAM	50	5	20.85	20.86	20.69			
20	16QAM	50	24	20.81	20.72	20.77	22	2	
20	16QAM	50	50	20.85	20.83	20.77			
20	16QAM	100	0	20.87	20.80	20.76			
20	16QAM	100	5	20.85	20.72	20.67			
20	64QAM	1	49	20.81	20.69	20.59	22	2	
20	64QAM	1	99	20.86	20.73	20.61			
20	64QAM	50	5	19.80	19.73	19.71			
20	64QAM	50	24	19.80	19.77	19.77	21	3	
20	64QAM	50	50	19.80	19.79	19.72			
20	64QAM	100	0	19.58	19.80	19.62			
20	256QAM	1	0	17.81	17.57	17.50			
20	256QAM	1	49	17.86	17.57	17.55	19	5	
20	256QAM	1	99	17.88	17.68	17.47			
20	256QAM	50	5	17.83	17.74	17.73			
20	256QAM	50	24	17.78	17.76	17.70	19	5	
20	256QAM	50	50	17.72	17.84	17.60			
20	256QAM	100	0	17.81	17.88	17.82			
Channel									
Frequency [MHz]									
15	QPSK	1	0	22.73	22.87	22.93	Turn-up limit (dBm)	MPE (dB)	
15	QPSK	1	49	22.76	22.82	22.91	24	0	
15	QPSK	1	99	22.80	22.83	22.84			
15	QPSK	36	36	20.81	20.59	20.77			
15	QPSK	36	36	21.52	21.48	21.68	23	1	
15	QPSK	36	36	21.69	21.69	21.66			
15	QPSK	75	75	21.68	21.82	21.63			
15	16QAM	1	0	21.86	21.97	21.87	23	1	
15	16QAM	1	37	21.88	21.82	21.76			
15	16QAM	1	74	21.91	21.73	21.75			
15	16QAM	36	0	20.77	20.54	20.64			
15	16QAM	36	36	20.85	20.85	20.65	22	2	
15	16QAM	36	36	20.91	20.59	20.69			
15	16QAM	75	0	20.82	20.58	20.60			
15	64QAM	1	20.14	20.14	20.16	20.16	22	2	
15	64QAM	1	37	20.81	20.82	20.52			
15	64QAM	1	74	20.78	20.55	20.63			
15	64QAM	36	0	19.80	19.80	19.64	21	3	
15	64QAM	36	20	19.82	19.82	19.64			
15	64QAM	36	36	19.70	19.83	19.74			
15	64QAM	75	0	19.73	19.86	19.74			
15	256QAM	1	0	17.43	17.57	17.52	19	5	
15	256QAM	1	37	17.46	17.46	17.40			
15	256QAM	1	74	17.54	17.40	17.30			
15	256QAM	36	0	17.71	17.74	17.54			
15	256QAM	36	20	18.05	18.00	18.04	19	5	
15	256QAM	36	36	17.83	17.69	17.53			
15	256QAM	75	0	17.86	17.69	17.47			
Channel									
Frequency [MHz]									
10	QPSK	1	0	22.75	22.95	22.95	Turn-up limit (dBm)	MPE (dB)	
10	QPSK	1	49	22.87	22.82	22.87	24	0	
10	QPSK	1	99	22.94	22.84	22.85			
10	QPSK	25	0	21.72	21.75	21.67	23	1	
10	QPSK	25	12	21.58	21.48	21.68			
10	QPSK	25	25	21.76	21.84	21.72			
10	QPSK	50	0	21.80	21.80	21.68			
10	16QAM	1	0	21.76	21.85	21.68	23	1	
10	16QAM	1	25	21.89	21.69	21.88			
10	16QAM	1	49	21.91	21.80	21.75			
10	16QAM	25	0	20.87	20.87	20.70			
10	16QAM	25	12	20.74	20.88	20.66	22	2	
10	16QAM	25	25	20.88	20.83	20.69			
10	16QAM	50	0	20.81	20.98	20.68			
10	64QAM	1	0	20.89	20.84	20.34	22	2	
10	64QAM	1	25	20.87	20.36	20.52			
10	64QAM	1	49	20.75	20.50	20.61			
10	64QAM	25	0	19.76	19.63	19.74	21	3	
10	64QAM	25	12	19.73	19.53	19.64			
10	64QAM	25	25	19.71	19.54	19.63			
10	256QAM	1	0	17.41	17.54	17.44	19	5	
10	256QAM	1	25	17.41	17.48	17.52			
10	256QAM	1	49	17.53	17.41	17.38			
10	256QAM	25	0	17.88	17.82	17.58			
10	256QAM	25	12	17.74	17.81	17.86	19	5	
10	256QAM	25	25	17.86	17.79	17.62			
10	256QAM	50	0	17.46	17.65	17.58			

Band 38_Ant 1									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch / Freq	Power Main Ch / Freq	Power High Ch / Freq	Turn-up limit (dBm)	MPE (dB)	
Channel									
Frequency [MHz]									
20	QPSK	1	0	18.44	18.48	18.50			
20	QPSK	1	49	18.21	18.18	18.23	18	0	
20	QPSK	1	99	18.15	18.17	18.21			
20	QPSK	50	5	16.18	16.41	16.17	18	0	
20	QPSK	50	24	16.16	16.21	16.17			
20	QPSK	100	0	16.22	16.36	16.24			
20	16QAM	1	0	16.40	16.31	16.40	18	0	
20	16QAM	1	49	16.38	16.38	16.32			
20	16QAM	1	99	16.43	16.43	16.47			
20	16QAM	50	0	16.33	16.43	16.35	18	0	
20	16QAM	50	24	16.37	16.43	16.44			
20	16QAM	50	50	16.38	16.34	16.36			
20	16QAM	100	0	16.31	16.40	16.36			
20	64QAM	1	49	16.44	16.39	16.40	18	0	
20	64QAM	1	99	16.37	16.20	16.39			
20	64QAM	50	5	16.41	16.36	16.36			
20	64QAM	50	24	16.40	16.33	16.31			
20	64QAM	50	50	16.35	16.37	16.34			
20	64QAM	100	0	16.35	16.28	16.41			
20	256QAM	1	0	16.31	16.38	16.19	18	0	
20	256QAM	1	49	16.34	16.40	16.38			
20	256QAM	1	99	16.20	16.36	16.27			
20	256QAM	50	0	16.30	16.40	16.44			
20	256QAM	50	24	16.37	16.44	16.33	18	0	
20	256QAM	50	50	16.41	16.46	16.41			
20	256QAM	100	0	16.32	16.44	16.29			
Channel									
Frequency [MHz]									
15	QPSK	1	0	23.73	23.95	24.15	Turn-up limit (dBm)	MPE (dB)	
15	QPSK	1	37	16.13	16.15	16.19	18	0	
15	QPSK	1	74	16.02	16.07	16.17			
15	QPSK	36	36	16.08	16.12	16.12			
15	QPSK	36	36	16.00	16.18	16.07	18	0	
15	QPSK	36	36	16.12	16.22	16.19			
15	QPSK	75	0	16.13	16.33	16.18			
15	16QAM	1	0	16.36	16.30	16.32	18	0	
15	16QAM	1	37	16.26	16.27	16.20			
15	16QAM	1	74	16.41	16.40	16.38			
15	16QAM	36	0	16.31	16.38	16.29	18	0	
15	16QAM	36	36	16.35	16.28	16.25			
15	16QAM	75	0	16.27	16.32	16.28			
15	64QAM	1	20.14	16.26	16.28	16.28	18	0	
15	64QAM	1	37	16.28	16.17	16.26			
15	64QAM	1	74	16.23	16.30	16.17			
15	64QAM	36	0	16.28	16.30	16.34	18	0	
15	64QAM	36	20	16.34	16.25	16.23			
15	64QAM	36	36	16.18	16.08	16.26			
15	64QAM	75	0	16.27	16.18	16.33			
15	256QAM	1	0	16.26	16.34	16.12	18	0	
15	256QAM	1	37	16.22	16.34	16.22			
15	256QAM	1	74	16.22	16.24	16.22			
15	256QAM	36	0	16.36	16.38	16.34			
15	256QAM	36	20	16.25	16.31	16.21	18	0	
15	256QAM	36	36	16.33	16.34	16.33			
15	256QAM	75	0	16.25	16.33	16.14			
Channel									
Frequency [MHz]									
10	QPSK	1	0	24.78	24.95	24.15	Turn-up limit (dBm)	MPE (dB)	
10	QPSK	1	49	16.40	16.48	16.23	18	0	
10	QPSK	1	99						
10	QPSK	20	0	16.11	16.21	16.10	18	0	
10	QPSK	20	12	16.08	16.18	16.15			
10	QPSK	20	25	16.20	16.25	16.12	18	0	
10	QPSK	50	5	16.21	16.33	16.14			
10	16QAM	1	0	16.34	16.20	16.30	18	0	
10	16QAM	1	49	16.31	16.26	16.28			
10	16QAM	1	99	16.37	16.36	16.36	18	0	
10	16QAM	20	0	16.25	16.33	16.25			
10	16QAM	20	12	16.29	16.31	16.41			
10	16QAM	20	25	16.30	16.23	16.23	18	0	
10	16QAM	50	5	16.35	16.30	16.30			
10	64QAM	1	0	16.40	16.35	16.38	18	0	
10	64QAM	1	49	16.38	16.15	16.35			
10	64QAM	1	99	16.30	16.25	16.29			
10	64QAM	20	0	16.37	16.31	16.36	18	0	
10	64QAM	20	12	16.31	16.27	16.21			
10	64QAM	20	25	16.29	16.20	16.21	18	0	
10	64QAM	50	0	16.25	16.23	16.31			
10	256QAM	1	0	16.19	16.27	16.09	18	0	
10	256QAM	1	25	16.32	16.41	16.21			
10	256QAM	1	49	16.17	16.28	16.24	18	0	
10	256QAM	20	0	16.33	16.33	16.33			
10	256QAM	20	12	16.29	16.40	16.30	18	0	
10	256QAM	25	25	16.27	16.38	16.28			
10	256QAM	50	0	16.38	16.38	16.38	18	0	
Channel									
Frequency [MHz]									
5	QPSK	12	0	23.73	23.95	24.15	Turn-up limit (dBm)	MPE (dB)	
5	QPSK	1	12	16.10	16.05	16.14	18	0	
5	QPSK	12	0	24.11	24.11	24.13			
5	QPSK	12	0	16.05	16.00	16.08			
5	QPSK	12	7	16.11	16.16	16.16	18	0	
5	QPSK	12	13	16.10	16.20	16.10			
5	QPSK	26	0	16.19	16.23	16.18			
5	16QAM	1	0	16.29	16.21	16.29	18	0	
5	16QAM	1	13	16.24	16.30	16.29			
5	16QAM	1	24	16.31	16.41	16.41			
5	16QAM	12	0	16.23	16.40	16.34			
5	16QAM	12	13	16.27	16.38	16.33			
5	16QAM	12	13	16.27	16.28	16.32			
5	64QAM	1	12	16.35	16.13	16.34	18	0	
5	64QAM	1	25	16.29	16.19	16.19			
5	64QAM	12	0	16.35	16.29	16.34			
5	64QAM	12	7	16.27	16.29	16.19			
5	64QAM	12	13	16.27	16.24	16.29	18	0	
5	64QAM	26	0	16.34	16.17	16.37			
5	256QAM	1	12	16.29	16.30	16.12	18	0	
5	256QAM	1	24	16.16	16.35	16.25			
5	256QAM	12	12	16.30	16.42	16.25	18	0	
5	256QAM	12	13	16.30	16.43	16.34			
5	256QAM	26	0	16.27	16.27	16.27	18	0	



Band 38_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Turn-up link (dBm)	MFR (dB)	
Channel									
Frequency (MHz)				37860	38000	38160			
				257.5	258.5	261.5			
20	QPSK	1	0	16.48	16.52	16.53			
20	QPSK	1	49	16.48	16.52	16.57	17.7	0	
20	QPSK	99	0	16.48	16.52	16.55			
20	QPSK	36	0	16.48	16.52	16.47			
20	QPSK	50	24	16.51	16.52	16.46	17.7	0	
20	QPSK	50	49	16.47	16.52	16.56			
20	QPSK	100	0	16.50	16.51	16.55			
20	16QAM	1	0	16.38	16.41	16.21			
20	16QAM	1	49	16.32	16.33	16.35	17.7	0	
20	16QAM	1	99	16.35	16.49	16.26			
20	16QAM	50	0	16.48	16.45	16.46			
20	16QAM	50	24	16.52	16.24	16.35	17.7	0	
20	16QAM	50	50	16.37	16.48	16.24			
20	16QAM	100	0	16.52	16.26	16.32			
20	16QAM	100	24	16.43	16.43	16.34			
20	64QAM	1	49	16.41	16.42	16.22	17.7	0	
20	64QAM	1	99	16.42	16.32	16.22			
20	64QAM	50	0	16.52	16.35	16.41			
20	64QAM	50	24	16.47	16.37	16.41	17.7	0	
20	64QAM	50	50	16.36	16.32	16.37			
20	256QAM	1	49	16.52	16.35	16.31	17.7	0	
20	256QAM	1	99	16.43	16.49	16.26			
20	256QAM	50	0	16.33	16.37	16.34			
20	256QAM	50	24	16.35	16.35	16.26	17.7	0	
20	256QAM	50	50	16.45	16.35	16.24			
20	256QAM	100	0	16.29	16.33	16.33			
Channel									
Frequency (MHz)				2577.5	2585	2617.5	Turn-up link (dBm)	MFR (dB)	
				38950	38950	3917.5			
15	QPSK	1	0	16.44	16.37	16.35			
15	QPSK	1	37	16.48	16.20	16.22	17.7	0	
15	QPSK	1	74	16.40	16.20	16.18			
15	QPSK	36	0	16.40	16.20	16.18			
15	QPSK	36	20	16.44	16.31	16.33	17.7	0	
15	QPSK	36	36	16.34	16.43	16.17			
15	QPSK	100	0	16.45	16.40	16.35			
15	16QAM	1	0	16.29	16.32	16.11			
15	16QAM	1	37	16.42	16.46	16.32	17.7	0	
15	16QAM	1	74	16.31	16.38	16.20			
15	16QAM	36	0	16.46	16.32	16.37			
15	16QAM	36	20	16.45	16.38	16.15	17.7	0	
15	16QAM	36	36	16.28	16.38	16.15			
15	16QAM	75	0	16.52	16.21	16.23			
15	64QAM	1	49	16.41	16.35	16.15			
15	64QAM	1	37	16.38	16.37	16.12	17.7	0	
15	64QAM	1	74	16.31	16.47	16.09			
15	64QAM	36	0	16.40	16.33	16.25			
15	64QAM	36	20	16.44	16.33	16.26	17.7	0	
15	64QAM	36	36	16.24	16.31	16.14			
15	64QAM	75	0	16.52	16.22	16.35			
15	256QAM	1	0	16.31	16.33	16.26			
15	256QAM	1	37	16.41	16.37	16.24	17.7	0	
15	256QAM	1	74	16.41	16.37	16.24			
15	256QAM	36	0	16.22	16.32	16.32			
15	256QAM	36	20	16.40	16.42	16.34	17.7	0	
15	256QAM	36	36	16.33	16.25	16.16			
15	256QAM	75	0	16.25	16.09	16.20			
Channel									
Frequency (MHz)				2577.5	2585	2617.5	Turn-up link (dBm)	MFR (dB)	
				3917.5	3925	3957.5			
10	QPSK	1	0	16.44	16.38	16.47			
10	QPSK	1	25	16.40	16.14	16.16	17.7	0	
10	QPSK	1	49	16.38	16.16	16.17			
10	QPSK	25	0	16.42	16.46	16.37			
10	QPSK	12	0	16.42	16.43	16.32	17.7	0	
10	QPSK	25	25	16.36	16.43	16.22			
10	QPSK	100	0	16.45	16.40	16.35			
10	16QAM	1	0	16.27	16.35	16.15			
10	16QAM	1	25	16.40	16.43	16.48	17.7	0	
10	16QAM	1	49	16.28	16.41	16.16			
10	16QAM	25	0	16.45	16.40	16.35			
10	16QAM	25	12	16.39	16.21	16.30	17.7	0	
10	16QAM	25	25	16.29	16.48	16.18			
10	16QAM	50	0	16.46	16.29	16.26			
10	64QAM	1	0	16.38	16.41	16.16	17.7	0	
10	64QAM	1	25	16.47	16.33	16.28			
10	64QAM	1	49	16.38	16.44	16.12			
10	64QAM	25	0	16.46	16.26	16.34			
10	64QAM	25	12	16.44	16.34	16.30	17.7	0	
10	64QAM	25	25	16.27	16.51	16.06			
10	64QAM	50	0	16.42	16.25	16.33			
10	256QAM	1	0	16.12	16.13	16.26	17.7	0	
10	256QAM	1	25	16.24	16.43	16.41			
10	256QAM	1	49	16.38	16.35	16.16			
10	256QAM	25	0	16.30	16.04	16.23			
10	256QAM	25	12	16.24	16.27	16.31	17.7	0	
10	256QAM	25	25	16.42	16.27	16.31			
10	256QAM	50	0	16.16	16.15	16.23			

Band 41_Ant 0									
BW (MHz)	Modulation	RB Size	RB Offset	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Power Level Ch./Freq.	Turn-up link (dBm)	MFR (dB)
Channel									
Frequency (MHz)				38970	40185	40600	41005	41460	
20	QPSK	1	0	22.80	22.81	22.80	22.77	22.78	
20	QPSK	1	49	22.78	22.80	22.71	22.82	22.58	24
20	QPSK	99	0	22.71	22.78	22.69	22.86	22.72	
20	QPSK	36	0	21.88	21.95	21.98	21.74	21.82	
20	QPSK	50	24	21.80	21.91	21.69	21.84	21.80	23
20	QPSK	50	49	21.75	21.81	21.85	21.62	21.73	
20	QPSK	100	0	21.75	21.81	22.03	21.74	21.72	
20	16QAM	1	0	21.89	21.93	21.85	21.77	21.84	
20	16QAM	1	49	21.88	21.94	21.95	21.78	21.74	23
20	16QAM	1	99	21.83	22.03	21.80	21.82	21.90	
20	16QAM	50	0	20.74	21.02	20.80	20.75	20.89	
20	16QAM	50	24	20.78	20.88	20.91	20.73	20.80	
20	16QAM	50	50	20.61	20.91	20.79	20.65	20.75	22
20	16QAM	100	0	20.81	20.83	20.78	20.60	20.78	
20	64QAM	1	0	20.75	20.92	20.78	20.62	20.74	
20	64QAM	1	49	20.83	20.92	20.78	20.67	20.68	22
20	64QAM	1	99	20.69	20.86	20.76	20.64	20.75	
20	64QAM	50	0	19.78	19.93	19.79	19.81	19.73	
20	64QAM	50	24	19.80	19.98	19.83	19.63	19.83	21
20	64QAM	50	50	19.91	19.93	19.76	19.63	19.81	
20	64QAM	100	0	19.77	19.87	19.81	19.65	19.74	
20	256QAM	1	0	17.73	17.73	17.63	17.71	17.70	
20	256QAM	1	49	17.66	17.67	17.62	17.80	17.64	19
20	256QAM	1	99	17.77	17.76	17.89	17.72	17.87	
20	256QAM	50	0	17.87	17.83	17.83	17.77	17.80	
20	256QAM	50	24	17.81	17.77	17.84	17.74	17.86	19
20	256QAM	50	50	17.80	17.76	17.92	17.68	17.68	
20	256QAM	100	0	17.73	17.84	17.83	17.77	17.68	
Channel									
Frequency (MHz)				38970	40185	40600	41005	41460	
15	QPSK	1	0	23.74	23.87	22.81	23.75	23.61	
15	QPSK	1	37	22.87	22.73	22.71	22.57	22.55	24.00
15	QPSK	1	74	22.87	22.78	22.60	22.65	22.72	
15	QPSK	36	0	21.83	21.87	21.84	21.74	21.84	
15	QPSK	36	20	21.80	21.85	21.89	21.74	21.73	23
15	QPSK	36	36	21.74	21.76	21.77	21.72	21.86	
15	QPSK	100	0	21.75	21.87	21.89	21.79	21.74	
15	16QAM	1	0	21.89	21.82	21.74	21.84	21.78	23
15	16QAM	1	37	21.77	21.93	21.93	21.80	21.75	
15	16QAM	1	74	21.86	22.01	21.79	21.86	21.83	
15	16QAM	36	0	20.66	20.95	20.77	20.73	20.89	
15	16QAM	36	20	20.68	20.85	20.74	20.62	20.77	22
15	16QAM	36	36	20.67	20.87	20.78	20.74	20.76	
15	16QAM	75	0	20.73	20.88	20.69	20.64	20.74	
15	64QAM	1	49	20.71	20.85	20.74	20.67	20.68	22
15	64QAM	1	37	20.82	20.83	20.74	20.76	20.74	
15	64QAM	1	74	20.80	20.79	20.57	20.73	20.78	
15	64QAM	36	0	19.70	19.85	19.76	19.63	19.77	21
15	64QAM	36	20	19.78	19.84	19.76	19.63	19.77	
15	64QAM	36	36	19.76	19.89	19.82	19.76	19.82	
15	64QAM	75	0	19.68	19.75	19.70	19.66	19.66	
15	256QAM	1	0	17.64	17.67	17.57	17.74	17.67	
15	256QAM	1	49	17.63	17.67	17.58	17.69	17.64	19
15	256QAM	1	99	17.77	17.76	17.89	17.72	17.87	
15	256QAM	50	0	17.87	17.83	17.83	17.77	17.80	
15	256QAM	50	24	17.89	17.76	17.93	17.70	17.86	19
15	256QAM	50	50	17.88	17.78	17.94	17.82	17.84	
15	256QAM	100	0	17.73	17.84	17.83	17.77	17.68	
Channel									
Frequency (MHz)				38970	40185	40600	41005	41460	
10	QPSK	1	0	23.72	23.83	22.79	23.69	23.54	
10	QPSK	1	25	22.77	22.66	22.61	22.50	22.44	24.00
10	QPSK	1	49	22.77	22.68	22.50	22.59	22.44	
10	QPSK	25	0	21.75	21.81	21.59	21.81	21.87	
10	QPSK	25	12	21.68	21.81	21.67	21.70	21.70	23
10	QPSK	25	25	21.63	21.79	21.63	21.73	21.78	
10	QPSK	50	0	21.72	21.88	22.02	21.82	21.76	
10	16QAM	1	0	21.80	21.88	21.80	21.78	21.74	
10	16QAM	1	25	21.73	21.79	21.83	21.72	21.76	23
10	16QAM	1	49	21.71	22.01	21.80	21.86	21.79	
10	16QAM	25	0	20.64	20.88	20.66	20.71	20.78	
10	16QAM	25	12	20.72	20.85	20.76	20.70	20.82	
10	16QAM	25	25	20.78	20.88	20.75	20.68	20.76	
10	16QAM	50	0	20.68	20.70	20.68	20.54	20.64	
10	64QAM	1	0	20.63	20.89	20.70	20.71	20.84	
10	64QAM	1	25	20.80	20.89	20.74	20.73	20.67	22
10	64QAM	1	49	20.80	20.86	20.68	20.73	20.68	
10	64QAM	25	0	19.74	19.91	19.76	19.81	19.66	
10	64QAM	25	12	19.75	19.96	19.75	19.69	19.70	21
10	64QAM	25	25	19.88	19.93	19.76	19.64	19.70	
10	64QAM	50	0	19.77	19.80	19.68	19.71	19.95	
10	256QAM	1	0	17.67	17.71	17.61	17.68	17.69	
10	256QAM	1	25	17.76	17.84	17.82	17.84	17.85	19
10	256QAM	1	49	17.88	17.74	17.80	17.66	17.78	
10	256QAM	25	0	17.83	17.83	17.77	17.81	17.86	
10	256QAM	25	12	17.82	17.74	17.88	17.74	17.70	19
10	256QAM	25	25	17.85	17.66	17.85	17.77	17.82	
10	256QAM	50	0	17.73	17.84	17.83	17.77	17.68	
Channel									
Frequency (MHz)				38970	40185	40600	41005	41460	
5	QPSK	1	0	23.72	23.83	22.79	23.69	23.54	
5	QPSK	1	12	22.76	22.60	22.60	22.60	22.53	24.00
5	QPSK	1	25	22.76	22.68	22.50	22.59	22.44	
5	QPSK	12	0	21.81	21.88	21.60	21.77	21.91	
5	QPSK	12	7	21.73	21.77	21.68	21.74	21.83	23
5	QPSK	12	25	21.73	21.80	21.65	21.52	21.78	
5	QPSK	25	0	21.68	21.88	22.00	21.82	21.81	
5	16QAM	1	0	21.84	21.89	21.80	21.81	21.80	23
5	16QAM	1	12	21.81	21.87	21.83	21.72	21.76	
5	16QAM	1	24	21.80	22.03	21.78	21.89	21.83	
5	16QAM	12	0	20.72	20.91	20.75	20.69	20.83	
5	16QAM	12	7	20.81	20.85	20.85	20.73	20.74	
5	16QAM	12	13	20.83	20.80	20.79	20.65	20.71	
5	16QAM	25	0	20.74	20.77	20.77	20.58	20.74	
5	64QAM	1	0	20.75	20.82	20.68	20.67	20.74	
5	64QAM	1	12	20.81	20.91	20.72	20.79	20.65	
5	64QAM	1	25	20.80	20.87	20.77	20.67	20.73	22
5	64QAM	12	0	19.71	19.82	19.76	19.73	19.67	
5	64QAM	12	7	19.69	19.87	19.71	19.81	19.65	
5	64QAM	12	13	19.71	19.82	19.77	19.73	19.78	21
5	64QAM	25	0	19.67	19.84	19.69	19.72	19.79	
5	256QAM	1	0	17.67	17.68	17.64	17.68	17.69	
5	256QAM	1	12	17.73	17.63	17.88	17.79	17.65	19
5	256QAM	1	24	17.86	17.71	17.78	17.70	17.68	
5	256QAM	12	0	17.78	17.73	17.84	17.78	17.82	
5	256QAM	12	7	17.68	17.73	17.88	17.78	17.67	
5	256QAM	12	13	17.69	17.76	17.84	17.85	17.83	
5	256QAM	25	0	17.69	17.82	17.82	17.69	17.67	

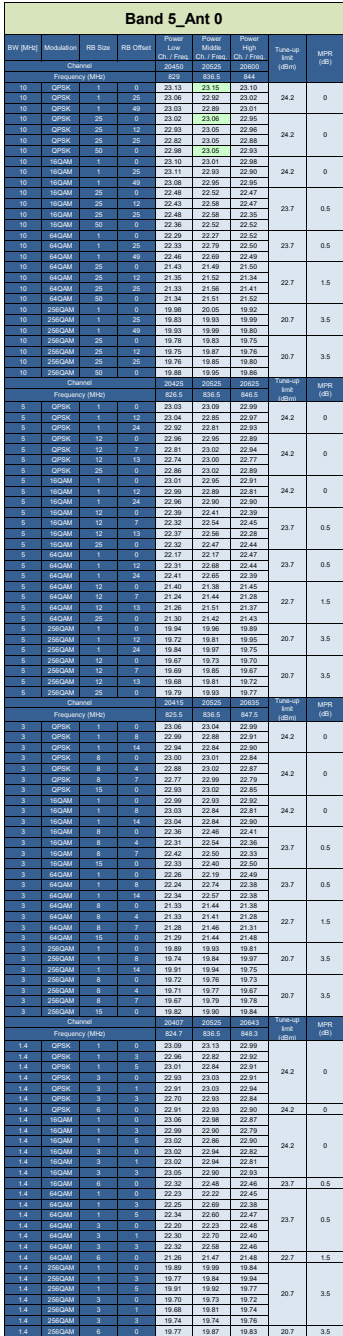


Band 41_Ant 2												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low-Mid-Mid Ch / Freq	Power Low-Mid-Mid Ch / Freq	Power Low-Mid-Mid Ch / Freq	Power Low-Mid-Mid Ch / Freq	Power Low-Mid-Mid Ch / Freq	Time-up limit (dBm)	MPE (dB)		
Channel												
Frequency (MHz)												
20	QPSK	1	0	24.48	24.51	24.53	24.53	24.54	25.7	0		
20	QPSK	1	49	24.48	24.51	24.58	24.49	24.6				
20	QPSK	1	99	24.4	24.51	24.57	24.44	24.54				
20	QPSK	50	0	23.86	23.81	23.77	23.85	23.87	24.7	1		
20	QPSK	50	24	23.54	23.67	23.69	23.56	23.6				
20	QPSK	100	0	23.42	23.64	23.68	23.55	23.54				
20	16QAM	1	0	23.48	23.38	23.53	23.42	23.47	24.7	1		
20	16QAM	1	49	23.38	23.37	23.38	23.3	23.43				
20	16QAM	1	99	23.42	23.72	23.39	23.37	23.37				
20	16QAM	50	0	22.48	22.63	22.45	22.47	22.54	23.7	2		
20	16QAM	50	24	22.48	22.57	22.45	22.58	22.58				
20	16QAM	50	50	22.36	22.86	22.54	22.61	22.57				
20	16QAM	100	0	22.49	22.63	22.55	22.43	22.44	23.7	2		
20	16QAM	100	0	22.3	22.44	22.3	22.23	22.33				
20	16QAM	1	49	22.24	22.42	22.3	22.34	22.33				
20	64QAM	1	0	21.48	21.36	21.32	21.27	21.26	22.7	3		
20	64QAM	50	0	21.36	21.36	21.49	21.49	21.55				
20	64QAM	50	24	21.43	21.88	21.39	21.41	21.45				
20	64QAM	100	0	21.42	21.59	21.52	21.39	21.54	20.7	5		
20	256QAM	1	0	19.71	19.69	19.53	19.43	19.33				
20	256QAM	1	49	19.71	19.69	19.43	19.37	19.41				
20	256QAM	1	99	19.81	19.63	19.49	19.32	19.52	20.7	5		
20	256QAM	50	0	19.77	19.59	19.49	19.29	19.33				
20	256QAM	50	24	19.78	19.38	19.43	19.43	19.42				
20	256QAM	50	50	19.71	19.51	19.47	19.35	19.39	20.7	5		
20	256QAM	100	0	19.75	19.55	19.52	19.41	19.48				
Channel												
Frequency (MHz)												
15	QPSK	1	0	24.3	24.42	24.71	24.51	24.63	25.7	0		
15	QPSK	1	37	24.43	24.41	24.45	24.49	24.54				
15	QPSK	1	74	24.4	24.45	24.54	24.51	24.62				
15	QPSK	36	0	23.8	23.87	23.87	23.88	23.88	24.7	1		
15	QPSK	36	20	23.52	23.84	23.61	23.52	23.56				
15	QPSK	36	39	23.33	23.45	23.51	23.53	23.52				
15	QPSK	75	0	23.41	23.55	23.58	23.62	23.64	24.7	1		
15	16QAM	1	0	23.34	23.33	23.43	23.38	23.48				
15	16QAM	1	37	23.32	23.48	23.31	23.46	23.41				
15	16QAM	1	74	23.4	23.68	23.39	23.33	23.45	23.7	2		
15	16QAM	36	0	22.48	22.52	22.33	22.48	22.59				
15	16QAM	36	20	22.4	22.57	22.41	22.55	22.53				
15	16QAM	36	39	22.38	22.57	22.41	22.55	22.53	23.7	2		
15	16QAM	75	0	22.42	22.62	22.45	22.47	22.53				
15	64QAM	1	0	22.21	22.31	22.25	22.28	22.3				
15	64QAM	1	37	22.14	22.42	22.18	22.35	22.32	22.7	2		
15	64QAM	1	74	22.26	22.42	22.22	22.29	22.26				
15	64QAM	36	0	21.29	21.64	21.41	21.51	21.48				
15	64QAM	36	20	21.39	21.54	21.38	21.49	21.58	22.7	3		
15	64QAM	36	39	21.48	21.57	21.5	21.58	21.59				
15	64QAM	75	0	21.41	21.49	21.44	21.51	21.5				
15	256QAM	1	0	19.67	19.46	19.44	19.38	19.45	20.7	5		
15	256QAM	1	37	19.67	19.46	19.44	19.38	19.45				
15	256QAM	1	74	19.74	19.49	19.27	19.43	19.48				
15	256QAM	36	0	19.63	19.57	19.39	19.29	19.42	20.7	5		
15	256QAM	36	20	19.65	19.47	19.34	19.45	19.54				
15	256QAM	36	39	19.70	19.51	19.45	19.48	19.49				
15	256QAM	75	0	19.64	19.46	19.43	19.46	19.39	20.7	5		
Channel												
Frequency (MHz)												
10	QPSK	1	0	24.39	24.39	24.65	24.39	24.57	25.70	0		
10	QPSK	1	25	24.37	24.44	24.45	24.55	24.55				
10	QPSK	1	49	24.38	24.47	24.48	24.44	24.63				
10	QPSK	25	0	23.55	23.47	23.77	23.62	23.67	24.7	1		
10	QPSK	25	12	23.48	23.59	23.63	23.56	23.64				
10	QPSK	25	25	23.39	23.38	23.62	23.55	23.54				
10	16QAM	1	0	23.45	23.45	23.67	23.51	23.63	24.7	1		
10	16QAM	1	25	23.38	23.44	23.27	23.43	23.31				
10	16QAM	1	49	23.3	23.34	23.39	23.32	23.48				
10	16QAM	25	0	22.4	22.51	22.34	22.54	22.57	23.7	2		
10	16QAM	25	12	22.32	22.53	22.44	22.48	22.55				
10	16QAM	25	25	22.45	22.52	22.48	22.5	22.52				
10	16QAM	50	0	22.41	22.58	22.44	22.48	22.44	23.7	2		
10	16QAM	1	0	22.28	22.38	22.24	22.32	22.28				
10	16QAM	1	25	22.13	22.29	22.28	22.28	22.3				
10	64QAM	1	49	22.27	22.55	22.23	22.34	22.28	22.7	3		
10	64QAM	25	0	21.5	21.38	21.39	21.39	21.54				
10	64QAM	25	12	21.37	21.35	21.27	21.45	21.46				
10	64QAM	25	25	21.43	21.67	21.44	21.55	21.48	20.7	5		
10	64QAM	50	0	21.4	21.51	21.45	21.46	21.57				
10	256QAM	1	0	19.71	19.54	19.47	19.35	19.41				
10	256QAM	1	25	19.69	19.56	19.33	19.33	19.47	20.7	5		
10	256QAM	1	49	19.73	19.54	19.39	19.37	19.47				
10	256QAM	25	0	19.71	19.52	19.34	19.32	19.35				
10	256QAM	25	12	19.73	19.46	19.37	19.48	19.39	20.7	5		
10	256QAM	25	25	19.65	19.46	19.35	19.37	19.42				
10	256QAM	50	0	19.68	19.42	19.51	19.48	19.34				
Channel												
Frequency (MHz)												
5	QPSK	1	0	34.47	34.56	34.6	34.54	34.64	25.76	0		
5	QPSK	1	12	34.39	34.51	34.61	34.51	34.62				
5	QPSK	1	24	34.5	34.39	34.55	34.55	34.58				
5	QPSK	12	0	29.64	29.59	29.64	29.57	29.68	24.7	1		
5	QPSK	12	7	29.63	29.57	29.61	29.55	29.64				
5	QPSK	12	13	29.39	29.4	29.58	29.49	29.51				
5	QPSK	25	0	23.28	23.51	23.53	23.48	23.51	24.7	1		
5	16QAM	1	0	23.42	23.24	23.39	23.43	23.42				
5	16QAM	1	12	23.37	23.34	23.44	23.34	23.41				
5	16QAM	1	24	23.4	23.71	23.37	23.34	23.37	23.7	2		
5	16QAM	12	0	22.57	22.51	22.42	22.44	22.57				
5	16QAM	12	12	22.36	22.5	22.42	22.4	22.49				
5	16QAM	12	13	22.52	22.64	22.46	22.53	22.56	23.7	2		
5	16QAM	25	0	22.58	22.62	22.45	22.52	22.54				
5	16QAM	25	12	22.3	22.4	22.26	22.3	22.3				
5	64QAM	1	12	22.24	22.25	22.19	22.25	22.3	22.7	2		
5	64QAM	1	24	22.14	22.45	22.18	22.31	22.36				
5	64QAM	12	0	21.28	21.55	21.38	21.51	21.6				
5	64QAM	12	12	21.4	21.56	21.33	21.47	21.48	22.7	3		
5	64QAM	12	13	21.43	21.67	21.44	21.55	21.48				
5	64QAM	25	0	21.37	21.44	21.44	21.43	21.52				
5	256QAM	1	0	19.67	19.46	19.44	19.38	19.45	20.7	5		
5	256QAM	1	12	19.69	19.52	19.43	19.41	19.43				
5	256QAM	1	24	19.73	19.49	19.36	19.38	19.43				
5	256QAM	12	0	19.68	19.46	19.35	19.32	19.35	20.7	5		
5	256QAM	12	7	19.68	19.52	19.34	19.37	19.38				
5	256QAM	12	13	19.67	19.38	19.27	19.38	19.38				



Reduced Power for DSI1

Band 2_Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 18700	Power High 18800	Power High Ch. Freq. 19100	Turn-up time (dB)	MPR (dB)		
Channel										
20	QPSK	1	0	18.97	19.12	18.94				
20	QPSK	1	49	19.07	19.08	18.96	20.5	0		
20	QPSK	36	0	18.98	18.99	18.92				
20	QPSK	36	50	19.02	19.06	18.92				
20	QPSK	50	24	18.94	18.99	18.98	20.5	0		
20	QPSK	50	50	18.98	19.02	18.93				
20	QPSK	100	0	19.04	19.04	18.93				
20	QPSK	1	0	19.05	19.01	18.92				
20	QPSK	1	49	19.07	19.07	18.91	20.5	0		
20	QPSK	1	99	19.03	19.07	18.95				
20	QPSK	36	0	19.02	19.11	18.98				
20	QPSK	36	50	19.02	19.06	18.92				
20	QPSK	50	24	18.91	19.05	18.98	20.5	0		
20	QPSK	50	50	19.03	19.03	18.94				
20	QPSK	1	49	19.07	19.01	18.91	20.5	0		
20	QPSK	1	99	19.05	19.03	18.98				
20	QPSK	36	0	19.02	19.06	18.92				
20	QPSK	36	50	19.04	18.98	18.95	20.5	0		
20	QPSK	50	24	19.03	19.05	18.91				
20	QPSK	50	50	19.04	18.98	18.95				
20	QPSK	1	49	19.07	19.07	18.97				
20	QPSK	1	99	19.03	19.03	18.91	20.5	0		
20	QPSK	36	0	17.43	17.53	17.38				
20	QPSK	36	50	17.47	17.62	17.43	19	1.5		
20	QPSK	50	24	17.51	17.51	17.42				
20	QPSK	50	50	17.55	17.57	17.64				
20	QPSK	50	50	17.47	17.59	17.66	19	1.5		
20	QPSK	100	0	17.64	17.77	17.70				
Channel										
15	QPSK	1	0	18.91	19.07	18.87				
15	QPSK	1	37	18.96	19.04	18.92	20.5	0		
15	QPSK	36	0	18.97	18.92	18.82				
15	QPSK	36	50	18.97	18.93	18.87				
15	QPSK	50	24	18.95	18.97	18.77	20.5	0		
15	QPSK	50	50	18.92	18.96	18.82				
15	QPSK	50	50	18.99	19.02	18.94				
15	QPSK	1	0	19.03	18.93	18.83				
15	QPSK	1	37	18.93	18.91	18.81	20.5	0		
15	QPSK	36	0	18.95	18.95	18.85				
15	QPSK	36	50	18.95	18.95	18.85				
15	QPSK	50	24	18.99	19.02	18.94	20.5	0		
15	QPSK	50	50	19.03	18.93	18.83				
15	QPSK	50	50	19.05	18.95	18.73				
15	QPSK	1	37	18.97	18.98	18.88	20.5	0		
15	QPSK	1	74	18.94	18.91	18.81				
15	QPSK	36	0	18.93	18.94	18.83				
15	QPSK	36	50	18.97	19.02	18.93	20.5	0		
15	QPSK	50	24	18.94	18.93	18.83				
15	QPSK	50	50	19.04	18.95	18.85				
15	QPSK	1	37	17.51	17.51	17.26	19	1.5		
15	QPSK	1	74	17.36	17.51	17.30				
15	QPSK	36	0	17.51	17.50	17.67				
15	QPSK	36	50	17.47	17.49	17.59	19	1.5		
15	QPSK	50	24	17.49	17.41	17.54				
15	QPSK	50	50	17.52	17.75	17.64				
Channel										
10	QPSK	1	0	18.93	19.07	18.91				
10	QPSK	1	25	18.98	18.98	18.91	20.5	0		
10	QPSK	36	0	18.97	18.92	18.82				
10	QPSK	36	50	18.94	18.97	18.83				
10	QPSK	50	24	18.96	18.90	18.82	20.5	0		
10	QPSK	50	50	18.92	18.96	18.82				
10	QPSK	50	50	18.95	18.96	18.81				
10	QPSK	1	0	19.02	18.92	18.82				
10	QPSK	1	49	19.06	18.96	18.77	20.5	0		
10	QPSK	36	0	18.91	18.93	18.73				
10	QPSK	36	50	18.96	18.96	18.86				
10	QPSK	50	24	18.94	18.98	18.83	20.5	0		
10	QPSK	50	50	18.91	18.92	18.82				
10	QPSK	50	50	18.95	19.01	18.89				
10	QPSK	1	25	18.99	19.03	18.94	20.5	0		
10	QPSK	1	49	18.96	18.96	18.76				
10	QPSK	36	0	18.98	18.95	18.84				
10	QPSK	36	50	18.99	19.03	18.78	20.5	0		
10	QPSK	50	24	18.92	18.93	18.82				
10	QPSK	50	50	19.02	19.03	18.78				
10	QPSK	1	25	18.99	19.03	18.94	20.5	0		
10	QPSK	1	49	18.96	18.96	18.76				
10	QPSK	36	0	18.98	18.95	18.84				
10	QPSK	36	50	18.99	19.03	18.78	20.5	0		
10	QPSK	50	24	18.92	18.93	18.82				
10	QPSK	50	50	19.02	19.03	18.78				
Channel										
5	QPSK	1	0	18.91	19.10	18.87				
5	QPSK	1	12	18.96	19.01	18.94	20.5	0		
5	QPSK	36	0	18.94	18.96	18.83				
5	QPSK	36	50	18.96	18.98	18.78				
5	QPSK	50	24	18.91	18.96	18.80	20.5	0		
5	QPSK	50	50	18.94	18.93	18.83				
5	QPSK	1	0	19.00	18.90	18.79				
5	QPSK	1	37	18.93	18.94	18.83	20.5	0		
5	QPSK	36	0	18.98	18.94	18.82				
5	QPSK	36	50	18.92	18.92	18.82				
5	QPSK	50	24	18.90	18.98	18.80	20.5	0		
5	QPSK	50	50	18.95	19.03	18.83				
5	QPSK	1	37	18.93	18.95	18.77				
5	QPSK	1	74	18.91	18.91	18.81				
5	QPSK	36	0	18.92	18.90	18.88				
5	QPSK	36	50	19.01	18.93	18.89	20.5	0		
5	QPSK	50	24	18.91	18.90	18.89				
5	QPSK	50	50	18.97	19.03	18.81				
5	QPSK	1	37	18.99	18.98	18.80	20.5	0		
5	QPSK	1	74	18.97	18.97	18.86				
5	QPSK	36	0	18.98	18.96	18.89				
5	QPSK	36	50	18.99	18.99	18.89	20.5	0		
5	QPSK	50	24	17.37	17.49	17.28	19	1.5		
5	QPSK	50	50	17.52	17.52	17.64				
5	QPSK	1	37	17.51	17.55	17.53				
5	QPSK	12	0	17.53	17.42	17.62				
5	QPSK	12	50	17.49	17.41	17.62	19	1.5		
5	QPSK	12	13	17.49	17.45	17.52				
5	QPSK	25	0	17.51	17.66	17.64				
Channel										
3	QPSK	1	0	18.95	19.04	18.96				
3	QPSK	1	9	18.90	19.00	18.86	20.5	0		
3	QPSK	36	0	18.92	18.97	18.79				
3	QPSK	36	50	18.90	18.95	18.88				
3	QPSK	50	24	18.93	18.93	18.75	20.5	0		
3	QPSK	50	50	18.93	18.96	18.87				
3	QPSK	15	0	18.93	19.02	18.78				
3	QPSK	1	0	18.94	18.92	18.82				
3	QPSK	1	9	18.98	18.94	18.87	20.5	0		
3	QPSK	36	0	18.90	18.95	18.79				
3	QPSK	36	50	18.93	18.96	18.87				
3	QPSK	50	24	18.93	19.00	18.79	20.5	0		
3	QPSK	50	50	18.94	18.94	18.81				
3	QPSK	1	9	18.90	18.90	18.85				
3	QPSK	1	37	18.97	18.93	18.83	20.5	0		
3	QPSK	36	0	18.91	18.99	18.88				
3	QPSK	36	50	18.92	18.96	18.82	20.5	0		
3	QPSK	50	24	18.91	18.90	18.74				
3	QPSK	50	50	18.94	19.03	18.83				
3	QPSK	1	9	18.90	18.90	18.85				
3	QPSK	1	37	18.97	18.93	18.83	20.5	0		
3	QPSK	36	0	18.91	18.99	18.88				
3	QPSK	36	50	18.92	18.96	18.82	20.5	0		
3	QPSK	50	24	18.91	18.90	18.74				
3	QPSK	50	50	18.94	19.03	18.83				
3	QPSK	1	9	18.90	18.90	18.85				
3	QPSK	1	37	18.97	18.93	18.83	20.5	0		
3	QPSK	36	0	18.91	18.99	18.88				
3	QPSK	36	50	18.92	18.96	18.82	20.5	0		
3	QPSK	50	24	18.91	18.90	18.74				
3	QPSK	50	50	18.94	19.03	18.83				
3	QPSK	1	9	18.90	18.90	18.85				
3	QPSK	1	37	18.97	18.93	18.83	20.5	0		
3	QPSK	36	0	18.91	18.99	18.88				
3	QPSK	36	50	18.92	18.96	18.82	20.5	0		
3	QPSK	50	24	18.91	18.90	18.74				
3	QPSK	50	50	18.94	19.03	18.83				
3	QPSK	1	9	18.90	18.90	18.85				
3	QPSK	1	37	18.97	18.93	18.83	20.5	0		
3	QPSK	36	0	18.91						



Band 5_Ant 1											
RF Band	Modulation	RF SS	RF CCH	Power dBm	Power dBm	Power dBm	Transmit Rate Mbps	MFR MHz			
Channel				256QAM	256QAM	256QAM					
Frequency (MHz)				CR/FS	CR/FS	CR/FS					
10	QPSK	1	0	22.05	22.17	22.04	23.2	0			
10	QPSK	1	25	21.99	22.10	22.04					
10	QPSK	1	50	21.99	22.08	22.04					
10	QPSK	25	0	22.00	22.15	21.98	23.2	0			
10	QPSK	25	12	21.92	22.07	22.02					
10	QPSK	25	49	21.85	22.09	22.02					
10	QPSK	50	0	21.99	22.14	21.98	23.2	0			
10	QPSK	50	1	22.02	22.13	22.08					
10	QPSK	50	25	22.02	22.14	22.02					
10	QPSK	50	49	22.00	22.15	21.98	23.2	0			
10	QPSK	50	0	21.95	22.08	22.02					
10	QPSK	50	25	21.99	22.16	21.96					
10	QPSK	50	49	22.02	22.14	22.02	23.2	0			
10	QPSK	1	26	22.07	22.14	22.11					
10	QPSK	1	49	22.13	22.07	22.09	23.2	0			
10	QPSK	1	24	21.95	22.02	22.08					
10	QPSK	1	25	21.95	22.02	22.08					
10	QPSK	26	12	21.91	21.48	21.48	22.7	0.5			
10	QPSK	26	25	21.49	21.66	21.23					
10	QPSK	26	49	21.52	21.84	21.44					
10	256QAM	1	0	20.14	20.20	20.05	20.7	2.5			
10	256QAM	1	25	19.99	20.06	19.94					
10	256QAM	1	50	19.99	20.06	19.94					
10	256QAM	25	0	19.74	19.87	19.69	20.7	2.5			
10	256QAM	25	12	18.85	19.91	19.93					
10	256QAM	25	49	19.85	19.91	19.93					
10	256QAM	50	0	19.81	19.84	19.75	20.7	2.5			
10	256QAM	50	1	19.81	19.84	19.75					
10	256QAM	50	25	19.81	19.84	19.75					
Channel				256QAM	256QAM	256QAM					
Frequency (MHz)				CR/FS	CR/FS	CR/FS	Transmit Rate Mbps	MFR MHz			
5	QPSK	1	0	21.95	22.13	21.98	23.2	0			
5	QPSK	1	12	21.92	22.11	21.93					
5	QPSK	1	14	21.85	22.02	21.94					
5	QPSK	12	0	21.96	22.13	21.98	23.2	0			
5	QPSK	12	7	21.88	21.88	21.87					
5	QPSK	12	7	21.88	21.88	21.87					
5	QPSK	14	0	21.96	22.04	21.94	23.2	0			
5	QPSK	14	7	21.85	22.01	21.91					
5	QPSK	14	7	21.85	22.01	21.91					
5	QPSK	1	24	21.96	22.08	21.92	23.2	0			
5	QPSK	1	25	21.99	22.14	22.04					
5	QPSK	1	26	22.12	22.14	22.08					
5	QPSK	25	0	21.99	22.14	22.04	23.2	0			
5	QPSK	25	6	21.83	21.97	21.94					
5	QPSK	25	12	22.02	22.02	22.02					
5	QPSK	1	12	22.03	22.06	22.08	23.2	0			
5	QPSK	1	24	22.01	22.03	22.04					
5	QPSK	1	25	22.01	22.03	22.04					
5	QPSK	12	7	21.48	21.48	21.43	22.7	0.5			
5	QPSK	12	7	21.48	21.48	21.43					
5	QPSK	12	13	21.39	21.61	21.43					
5	256QAM	1	0	20.07	20.13	20.01	20.7	2.5			
5	256QAM	1	12	18.88	19.95	19.98					
5	256QAM	1	14	18.85	19.92	19.94					
5	256QAM	12	0	19.67	19.85	19.65	20.7	2.5			
5	256QAM	12	7	18.75	19.80	19.80					
5	256QAM	12	7	18.75	19.80	19.80					
5	256QAM	14	0	19.77	19.73	19.70	20.7	2.5			
5	256QAM	14	7	19.77	19.73	19.70					
5	256QAM	14	7	19.77	19.73	19.70					
Channel				256QAM	256QAM	256QAM					
Frequency (MHz)				CR/FS	CR/FS	CR/FS	Transmit Rate Mbps	MFR MHz			
3	QPSK	1	0	22.04	22.13	22.08	23.2	0			
3	QPSK	1	8	21.92	22.13	21.87					
3	QPSK	1	50	21.93	22.13	21.87					
3	QPSK	8	0	21.94	22.07	21.98	23.2	0			
3	QPSK	8	4	21.81	21.85	21.87					
3	QPSK	8	4	21.81	21.85	21.87					
3	QPSK	16	0	21.94	22.04	21.94	23.2	0			
3	QPSK	16	0	21.92	22.01	21.91					
3	QPSK	16	0	21.92	22.01	21.91					
3	QPSK	1	14	21.97	22.09	21.95	23.2	0			
3	QPSK	1	8	22.07	22.02	22.00					
3	QPSK	1	8	22.03	22.01	22.01					
3	QPSK	8	8	21.95	22.05	21.91	23.2	0			
3	QPSK	16	0	21.87	22.03	22.00					
3	QPSK	16	0	21.87	22.03	22.00					
3	QPSK	8	8	21.95	22.06	22.05	23.2	0			
3	QPSK	1	14	22.05	22.03	22.04					
3	QPSK	1	14	22.05	22.03	22.04					
3	QPSK	8	4	21.40	21.38	21.44	22.7	0			
3	QPSK	8	7	21.43	21.65	21.38					
3	QPSK	8	7	21.43	21.65	21.38					
3	256QAM	1	0	20.06	20.15	20.08	20.7	2.5			
3	256QAM	1	8	19.90	20.04	19.82					
3	256QAM	1	8	19.90	20.04	19.82					
3	256QAM	8	8	19.70	19.77	19.78	20.7	2.5			
3	256QAM	8	4	19.81	19.87	19.80					
3	256QAM	8	4	19.81	19.87	19.80					
3	256QAM	16	0	19.72	19.75	19.65	20.7	2.5			
3	256QAM	16	0	19.72	19.75	19.65					
3	256QAM	16	0	19.72	19.75	19.65					
Channel				256QAM	256QAM	256QAM					
Frequency (MHz)				CR/FS	CR/FS	CR/FS	Transmit Rate Mbps	MFR MHz			
14	QPSK	1	0	21.98	22.10	21.99	23.2	0			
14	QPSK	1	8	21.93	22.13	21.93					
14	QPSK	1	8	21.95	22.01	21.94					
14	QPSK	8	0	21.91	22.08	21.94	23.2	0			
14	QPSK	8	4	21.80	21.91	21.84					
14	QPSK	8	4	21.81	21.92	21.84					
14	QPSK	1	0	21.92	22.04	21.94	23.2	0			
14	QPSK	1	8	21.99	22.10	21.93					
14	QPSK	1	8	22.11	22.14	21.94					
14	QPSK	8	0	22.09	21.96	22.04	23.2	0			
14	QPSK	8	4	21.91	21.96	21.91					
14	QPSK	8	4	21.93	21.91	21.91					
14	QPSK	1	0	21.85	21.96	21.93	23.2	0			
14	QPSK	1	8	22.07	21.96	22.02					
14	QPSK	1	8	22.02	22.12	22.02					
14	QPSK	8	0	22.04	22.00	21.95	23.2	0			
14	QPSK	8	4	21.95	22.02	22.02					
14	QPSK	8	4	22.07	22.12	22.04					
14	QPSK	1	0	22.08	21.99	22.00	22.7	0.5			
14	QPSK	1	8	21.43	21.44	21.40					
14	QPSK	1	8	21.43	21.44	21.40					
14	256QAM	1	0	19.94	20.02	19.86	20.7	2.5			
14	256QAM	1	8	19.90	20.00	19.86					
14	256QAM	1	8	19.94	19.91	19.95					
14	256QAM	8	0	19.76	19.87	19.88	20.7	2.5			
14	256QAM	8	4	19.81	19.87	19.87					
14	256QAM	8	4	19.77	19.75	19.88					
14	256QAM	8	4	19.77	19.75	19.88					
Channel				256QAM	256QAM	256QAM					
Frequency (MHz)				CR/FS	CR/FS	CR/FS	Transmit Rate Mbps	MFR MHz			

Band 7_Ant 0										
Ref (MHz)	Modulation	RB Size	RB Count	Power (W)	Power (dBm)	Power (dBm)	Power (dBm)	Total BW (MHz)	MPR (dB)	
Channel				20600	21100	21200				
Frequency (MHz)				20.00	21.00	21.00				
20	QPSK	1	6	22.02	22.14	22.02				
20	QPSK	1	46	21.74	21.99	21.62		23	0	
20	QPSK	1	24	21.81	22.05	21.81				
20	QPSK	50	0	21.15	20.93	21.00				
20	QPSK	50	24	20.84	21.09	20.87		22	1	
20	QPSK	50	0	20.88	21.15	20.92				
20	QPSK	100	0	20.98	21.14	20.97				
20	HQAM	1	6	21.19	21.10	20.77				
20	HQAM	1	46	20.77	21.43	20.77		22	1	
20	HQAM	1	99	20.89	21.22	21.16				
20	HQAM	50	0	19.87	20.10	19.95				
20	HQAM	50	24	19.84	20.02	19.83				
20	HQAM	100	0	19.95	20.05	19.95		21		
20	HQAM	100	0	19.77	19.99	19.89				
20	HQAM	100	24	19.85	20.02	19.85				
20	HQAM	1	49	19.81	20.04	19.92				
20	HQAM	1	99	19.91	20.36	20.08				
20	HQAM	1	192	19.82	20.58	19.82		20	3	
20	HQAM	50	0	18.88	19.10	18.88				
20	HQAM	50	99	18.98	19.28	18.98				
20	25GQAM	1	0	17.11	17.20	17.04				
20	25GQAM	1	46	17.03	17.19	17.07		18	5	
20	25GQAM	1	99	17.05	17.21	17.05				
20	25GQAM	50	0	16.93	17.05	16.95				
20	25GQAM	50	24	16.91	17.04	16.91		18	5	
20	25GQAM	100	0	16.93	17.04	16.89				
Channel				20600	21600	21700				
Frequency (MHz)				20.600	21.600	21.700				
15	QPSK	1	6	21.62	21.68	21.72				
15	QPSK	1	46	21.63	21.78	21.72		23	0	
15	QPSK	1	24	21.69	21.73	21.69				
15	QPSK	50	0	20.47	20.81	20.64				
15	QPSK	50	24	20.68	20.93	20.78		22	1	
15	QPSK	50	0	20.68	20.98	20.68				
15	QPSK	100	0	20.69	20.83	20.73				
15	HQAM	1	6	20.61	20.65	20.71				
15	HQAM	1	46	20.73	20.73	20.65		22	1	
15	HQAM	1	74	20.54	20.81	21.08				
15	HQAM	50	0	19.49	19.91	19.75				
15	HQAM	50	24	19.42	19.82	19.65				
15	HQAM	100	0	19.69	19.84	19.84		21	2	
15	HQAM	100	24	19.58	19.74	19.61				
15	HQAM	1	99	20.01	19.75	20.01				
15	HQAM	1	192	19.72	19.91	19.87				
15	HQAM	1	74	19.87	19.95	20.00				
15	HQAM	50	0	18.47	18.86	18.47				
15	HQAM	50	24	18.6	18.87	18.94				
15	HQAM	100	0	18.71	18.91	18.88				
15	HQAM	100	24	18.65	18.86	18.65				
15	25GQAM	1	0	16.92	17.08	16.90				
15	25GQAM	1	46	16.84	17.05	16.83		18		
15	25GQAM	1	99	16.85	17.06	16.85				
15	25GQAM	50	0	16.73	16.85	16.80				
15	25GQAM	50	24	16.78	16.91	16.82				
15	25GQAM	100	0	16.75	16.91	16.82		18	5	
15	25GQAM	100	24	16.75	16.91	16.82				
Channel				20600	21100	21200				
Frequency (MHz)				20.600	21.100	21.200				
10	QPSK	1	26	21.42	21.81	21.73				
10	QPSK	1	26	21.43	21.73	21.72		23	0	
10	QPSK	1	26	21.47	21.77	21.73				
10	QPSK	50	0	20.31	20.31	20.31				
10	QPSK	50	24	20.24	20.28	20.24		22	1	
10	QPSK	50	0	20.24	20.30	20.24				
10	QPSK	100	0	20.43	20.79	20.27				
10	HQAM	1	0	20.31	20.66	20.31				
10	HQAM	1	46	20.31	20.66	20.31		22	1	
10	HQAM	1	49	20.39	20.19	20.83				
10	HQAM	50	0	19.26	19.79	19.78				
10	HQAM	50	24	19.25	19.83	19.25				
10	HQAM	100	0	19.39	19.58	19.39		21	2	
10	HQAM	100	24	19.5	19.86	19.73				
10	HQAM	1	46	19.44	19.97	19.44				
10	HQAM	1	25	19.34	19.69	19.34				
10	HQAM	50	0	18.99	19.54	18.93				
10	HQAM	50	24	18.92	19.38	18.89				
10	HQAM	100	0	18.88	19.38	18.88		18	5	
10	HQAM	100	24	18.83	19.38	18.83				
10	25GQAM	50	0	17.05	17.07	16.90				
10	25GQAM	1	25	16.97	17.03	17.00				
10	25GQAM	1	26	16.97	17.03	17.00				
10	25GQAM	50	0	16.82	16.87	16.82				
10	25GQAM	50	12	16.77	16.88	16.88		18	5	
10	25GQAM	50	24	16.78	16.88	16.88				
10	25GQAM	100	0	16.81	16.92	16.81				
Channel				20770	21100	21420				
Frequency (MHz)				20.770	21.100	21.420				
5	QPSK	1	24	21.4	21.81	21.69				
5	QPSK	1	12	21.39	21.71	21.72				
5	QPSK	1	24	21.33	21.84	21.72		23	0	
5	QPSK	1	24	21.33	21.84	21.72				
5	QPSK	12	7	20.41	20.87	20.82				
5	QPSK	12	7	20.52	20.8	20.78		22	1	
5	QPSK	12	7	20.38	20.79	20.82				
5	HQAM	1	0	20.4	21.2	21.1				
5	HQAM	1	12	20.48	21.28	20.89		22	1	
5	HQAM	1	12	20.48	20.68	21.1				
5	HQAM	12	9	19.45	19.71	19.64				
5	HQAM	12	9	19.38	19.61	19.62				
5	HQAM	12	9	19.38	19.68	19.7		21	2	
5	HQAM	20	0	19.37	19.97	19.93				
5	HQAM	20	12	19.35	19.98	19.93				
5	HQAM	12	12	19.55	19.97	20.1		21	2	
5	HQAM	12	24	19.59	19.63	20.1				
5	HQAM	12	12	19.71	19.81	19.84				
5	HQAM	12	12	19.41	19.68	19.8		20	3	
5	25GQAM	12	63	19.39	19.68	19.83				
5	25GQAM	12	63	19.32	19.74	19.94				
5	25GQAM	12	12	17.02	17.02	16.98				
5	25GQAM	12	12	16.98	17.08	16.92				
5	25GQAM	12	7	16.84	16.85	16.84				
5	25GQAM	12	7	16.87	16.87	16.87				
5	25GQAM	12	7	16.79	16.98	16.97				

Band 7_Ant 1												
RF Band	Modulation	RB Size	RB Count	Power Ch1 / Freq	Power Ch2 / Freq	Power Ch3 / Freq	Time-slot (ms)	MPR	CP	CP	CP	
Channel												
20	QPSK	1	0	18.96	19.05	19.05						
20	QPSK	1	46	18.81	18.84	18.72	20.5	0				
20	QPSK	50	0	18.74	18.74	18.78						
20	QPSK	50	24	18.67	18.91	18.76						
20	QPSK	50	46	18.60	18.88	18.71	20.5	0				
20	QPSK	100	0	18.86	18.86	18.86						
20	16QAM	1	0	18.69	19.02	18.80						
20	16QAM	1	46	18.60	18.90	18.73	20.5	0				
20	16QAM	50	0	18.71	18.71	18.77						
20	16QAM	50	24	18.63	18.86	18.71						
20	16QAM	50	46	18.56	18.80	18.63	20.5	0				
20	16QAM	100	0	18.82	18.82	18.82						
20	16QAM	100	24	18.75	18.75	18.75						
20	16QAM	100	46	18.66	18.66	18.66	20.5	0				
20	64QAM	1	0	17.49	17.53	17.51						
20	64QAM	1	46	17.36	17.45	17.37	10	1.5				
20	64QAM	50	0	17.45	17.45	17.45						
20	64QAM	50	24	17.37	17.42	17.39						
20	64QAM	50	46	17.29	17.31	17.29	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						
20	64QAM	100	46	17.25	17.25	17.25	10	1.5				
20	64QAM	100	0	17.39	17.48	17.28						
20	64QAM	100	24	17.32	17.32	17.32						



Band 7_Ant 2									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Mids 20960	Power High 21100	Power Peak 21360	Turn-up rate (dB)	MRR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.51	17.54	17.53			
20	QPSK	1	49	17.59	17.21	16.8		18.5	0
20	QPSK	59		17.45	17.48	16.84			
20	QPSK	50	0	17.36	17.61	16.8			
20	QPSK	50	24	17.41	17.2	16.97		18.5	0
20	QPSK	50		17.39	17.41	17.07			
20	QPSK	100	0	17.27	17.59	16.96			
20	16QAM	1	0	17.46	17.37	17.17		18.5	0
20	16QAM	1	49	17.59	17.46	16.79			
20	16QAM	1	59	17.25	17.41	16.87			
20	16QAM	50	0	17.53	17.48	17.27			
20	16QAM	50	24	17.57	17.42	17.25		18.5	0
20	16QAM	50	50	17.58	17.42	17.31			
20	16QAM	100	0	17.49	17.43	17.27			
20	16QAM	1	49	17.57	17.56	17.36		18.5	0
20	16QAM	1	59	17.27	17.56	17.36			
20	16QAM	50	24	17.45	17.29	17.19		18.5	0
20	16QAM	50	50	17.55	17.52	17.27			
20	256QAM	1	0	17.11	17.58	17.09			
20	256QAM	1	49	17.18	17.59	17.25		18.5	0
20	256QAM	1	74	17.41	17.59	17.51			
20	256QAM	50	0	17.09	17.27	17.13			
20	256QAM	50	24	17.22	17.42	17.14		18.5	0
20	256QAM	50	50	17.24	17.42	17.14			
20	256QAM	100	0	17.17	17.27	17.22			
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.55	17.59	17.48			
15	QPSK	1	37	17.35	17.13	16.77		18.5	0
15	QPSK	36	20	17.33	17.17	16.83			
15	QPSK	36	20	17.33	17.17	16.83		18.5	0
15	16QAM	1	0	17.34	17.25	17.15		18.5	0
15	16QAM	1	37	17.34	17.25	17.03			
15	16QAM	1	74	17.17	17.36	16.74			
15	16QAM	36	0	17.43	17.36	17.25		18.5	0
15	16QAM	36	20	17.42	17.36	17.25			
15	16QAM	36	39	17.47	17.36	17.22			
15	16QAM	75	0	17.46	17.4	17.25			
15	16QAM	1	37	17.35	17.31	17.33		18.5	0
15	16QAM	1	74	17.47	17.36	17.24			
15	16QAM	36	39	17.46	17.32	17.2		18.5	0
15	16QAM	36	20	17.34	17.27	17.14			
15	16QAM	36	39	17.49	17.43	17.2			
15	256QAM	1	0	17.06	17.31	17.06		18.5	0
15	256QAM	1	37	17.11	17.35	17.17			
15	256QAM	1	74	17.23	17.27	17.20			
15	256QAM	36	0	17.09	17.23	17.03			
15	256QAM	36	20	17.19	17.34	17.08		18.5	0
15	256QAM	36	39	17.26	17.25	17.15			
15	256QAM	75	0	17.08	17.19	17.14			
Channel									
Frequency (MHz)									
10	QPSK	1	0	17.53	17.59	17.48			
10	QPSK	1	25	17.31	17.13	16.71		18.5	0
10	QPSK	1	44	17.43	17.27	16.9			
10	QPSK	25	0	17.33	17.56	16.83			
10	QPSK	25	12	17.34	17.1	16.86		18.5	0
10	16QAM	1	0	17.37	17.24	17.05		18.5	0
10	16QAM	1	49	17.59	17.43	17.15			
10	16QAM	1	49	17.54	17.31	16.86			
10	16QAM	25	0	17.48	17.44	17.16			
10	16QAM	25	12	17.38	17.32	17.15			
10	16QAM	25	25	17.53	17.31	17.23		18.5	0
10	16QAM	50	0	17.43	17.31	17.23			
10	16QAM	1	0	17.4	17.45	17.28			
10	16QAM	1	25	17.6	17.46	17.27		18.5	0
10	16QAM	1	49	17.48	17.41	17.22			
10	16QAM	25	0	17.33	17.29	17.02		18.5	0
10	16QAM	25	12	17.43	17.27	17.16			
10	16QAM	25	25	17.48	17.24	17.23			
10	256QAM	1	0	17.05	17.26	17.02		18.5	0
10	256QAM	1	25	17.05	17.22	17.06			
10	256QAM	25	0	17.06	17.15	17.03			
10	256QAM	25	12	17.17	17.23	17.07		18.5	0
10	256QAM	25	25	17.22	17.28	17.16			
10	256QAM	50	0	17.15	17.22	17.09			
Channel									
Frequency (MHz)									
5	QPSK	1	0	17.58	17.6	17.51			
5	QPSK	1	12	17.35	17.12	16.76		18.5	0
5	QPSK	1	24	17.43	17.27	16.9			
5	QPSK	12	0	17.32	17.46	16.79			
5	QPSK	12	7	17.29	17.17	16.91		18.5	0
5	QPSK	12	33	17.29	17.29	17			
5	QPSK	25	0	17.16	17.36	16.84			
5	QPSK	1	0	17.39	17.27	17.07		18.5	0
5	16QAM	1	0	17.15	17.4	16.89			
5	16QAM	1	12	17.12	17.36	16.8			
5	16QAM	12	0	17.49	17.44	17.21			
5	16QAM	12	7	17.42	17.35	17.21		18.5	0
5	16QAM	12	13	17.46	17.35	17.23			
5	16QAM	25	0	17.42	17.32	17.17			
5	16QAM	1	0	17.41	17.39	17.27			
5	16QAM	1	12	17.59	17.54	17.37		18.5	0
5	16QAM	1	24	17.49	17.4	17.31			
5	16QAM	12	0	17.33	17.24	17.12			
5	16QAM	12	7	17.35	17.17	17.14		18.5	0
5	16QAM	12	13	17.53	17.21	17.17			
5	16QAM	25	0	17.29	17.18	17.12			
5	256QAM	1	0	17.05	17.25	17.06		18.5	0
5	256QAM	1	12	17.22	17.34	17.24			
5	256QAM	12	0	16.98	17.22	17.07			
5	256QAM	12	7	17.08	17.29	17.07		18.5	0
5	256QAM	12	13	17.15	17.25	17.09			
5	256QAM	25	0	17.04	17.19	17.11			

Band 7_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. (MHz)	Power Peak 20960	Power Peak 21100	Power Peak 21360	Turn-up rate (dB)	MRR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	17.51	17.65	17.64			
20	QPSK	1	49	17.46	17.62	17.63		19	0
20	QPSK	1	59	17.46	17.61	17.6			
20	QPSK	50	0	17.44	17.63	17.6			
20	QPSK	50	24	17.49	17.58	17.59		19	0
20	QPSK	50	50	17.5	17.61	17.63			
20	QPSK	100	0	17.27	17.59	17.61			
20	16QAM	1	0	17.46	17.62	17.59			
20	16QAM	1	49	17.59	17.57	17.49		19	0
20	16QAM	1	59	17.41	17.58	17.59			
20	16QAM	50	0	17.39	17.62	17.6			
20	16QAM	50	24	17.46	17.53	17.53		19	0
20	16QAM	50	50	17.46	17.54	17.58			
20	16QAM	100	0	17.39	17.58	17.56			
20	16QAM	100	0	17.46	17.53	17.53			
20	16QAM	1	49	17.52	17.64	17.61		19	0
20	16QAM	1	59	17.58	17.61	17.63			
20	16QAM	50	0	17.35	17.52	17.48		19	0
20	16QAM	50	24	17.14	17.33	17.28			
20	16QAM	50	50	17.45	17.59	17.59			
20	256QAM	1	0	17.35	17.44	17.33		19	0
20	256QAM	1	49	17.35	17.19	17.26			
20	256QAM	1	59	17.27	17.54	17.51			
20	256QAM	50	0	17.35	17.23	17.27			
20	256QAM	50	24	17.35	17.23	17.37		19	0
20	256QAM	50	50	17.42	17.09	17.17			
20	256QAM	100	0	17.14	17.25	17.12			
Channel									
Frequency (MHz)									
15	QPSK	1	0	17.38	17.62	17.59			
15	QPSK	1	37	17.35	17.63	17.55		19	0
15	QPSK	1	74	17.41	17.61	17.57			
15	QPSK	36	20	17.38	17.56	17.53			
15	QPSK	36	20	17.42	17.52	17.53		19	0
15	QPSK	36	20	17.42	17.52	17.53			
15	16QAM	1	0	17.38	17.64	17.6			
15	16QAM	1	3	17.34	17.5	17.49		19	0
15	16QAM	1	74	17.38	17.47	17.49			
15	16QAM	36	0	17.37	17.5	17.51			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	0	17.37	17.5	17.51			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM	36	20	17.37	17.44	17.59			
15	16QAM	36	39	17.42	17.51	17.44		19	0
15	16QAM	75	0	17.32	17.55	17.45			
15	16QAM	1	37	17.38	17.57	17.56		19	0
15	16QAM	1	74	17.51	17.5	17.59			
15	16QAM								



Band 66_Ant 0									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq. [MHz]	Power High Ch. Freq. [MHz]	Power Low Freq. [MHz]	Power High Freq. [MHz]	Time-up Int. (s)	MPR (dB)
Channel									
Frequency (MHz)									
20	QPSK	1	0	21.61	21.56	21.73	21.63	23	0
20	QPSK	1	49	21.61	21.91	21.73	21.89		
20	QPSK	99	0	21.73	21.76	21.71	21.73		
20	QPSK	99	50	21.73	21.76	21.71	21.73		
20	QPSK	50	24	20.79	20.83	20.79	20.83		
20	QPSK	50	24	20.79	20.83	20.79	20.83	22	1
20	QPSK	100	0	20.77	20.83	20.73	20.79		
20	QPSK	100	0	20.77	20.83	20.73	20.79		
20	QPSK	150	0	20.83	21.21	21.13	21.13		
20	QPSK	150	0	20.83	21.21	21.13	21.13		
20	QPSK	150	50	19.73	19.86	19.73	19.86	21	2
20	QPSK	150	50	19.73	19.86	19.73	19.86		
20	QPSK	150	50	19.73	19.86	19.73	19.86		
20	QPSK	150	50	19.73	19.86	19.73	19.86		
20	QPSK	150	50	19.73	19.86	19.73	19.86		
20	QPSK	150	50	19.73	19.86	19.73	19.86	18	5
20	QPSK	150	50	19.73	19.86	19.73	19.86		
20	QPSK	150	50	19.73	19.86	19.73	19.86		
20	QPSK	150	50	19.73	19.86	19.73	19.86		
20	QPSK	150	50	19.73	19.86	19.73	19.86		
20	QPSK	150	50	19.73	19.86	19.73	19.86		
20	QPSK	150	50	19.73	19.86	19.73	19.86		
Channel									
Frequency (MHz)									
15	QPSK	1	0	21.5	21.63	21.63	21.63	23	0
15	QPSK	1	37	21.57	21.69	21.69	21.69		
15	QPSK	1	37	21.57	21.69	21.69	21.69		
15	QPSK	36	0	20.79	20.82	20.82	20.82		
15	QPSK	36	0	20.79	20.82	20.82	20.82		
15	QPSK	36	20	20.71	20.88	20.69	20.69	22	1
15	QPSK	36	20	20.71	20.88	20.69	20.69		
15	QPSK	36	20	20.71	20.88	20.69	20.69		
15	QPSK	75	0	20.65	20.83	20.75	20.75		
15	QPSK	75	0	20.65	20.83	20.75	20.75		
15	QPSK	1	0	20.81	21.09	21.11	21.11	22	1
15	QPSK	1	0	20.81	21.09	21.11	21.11		
15	QPSK	1	0	20.81	21.09	21.11	21.11		
15	QPSK	1	74	21.1	21.11	20.96	20.96		
15	QPSK	1	74	21.1	21.11	20.96	20.96		
15	QPSK	36	0	19.87	19.77	19.78	19.78	21	2
15	QPSK	36	0	19.87	19.77	19.78	19.78		
15	QPSK	36	0	19.87	19.77	19.78	19.78		
15	QPSK	36	39	19.85	19.9	19.72	19.72		
15	QPSK	36	39	19.85	19.9	19.72	19.72		
15	QPSK	75	0	19.85	19.92	19.86	19.86	18	5
15	QPSK	75	0	19.85	19.92	19.86	19.86		
15	QPSK	75	0	19.85	19.92	19.86	19.86		
15	QPSK	75	0	19.85	19.92	19.86	19.86		
15	QPSK	75	0	19.85	19.92	19.86	19.86		
15	QPSK	1	74	19.8	19.71	19.68	19.68	21	2
15	QPSK	1	74	19.8	19.71	19.68	19.68		
15	QPSK	1	74	19.8	19.71	19.68	19.68		
15	QPSK	36	20	19.81	19.77	19.68	19.68		
15	QPSK	36	20	19.81	19.77	19.68	19.68		
15	QPSK	36	20	19.81	19.77	19.68	19.68	20	3
15	QPSK	36	20	19.81	19.77	19.68	19.68		
15	QPSK	36	20	19.81	19.77	19.68	19.68		
15	QPSK	36	20	19.81	19.77	19.68	19.68		
15	QPSK	36	20	19.81	19.77	19.68	19.68		
15	QPSK	1	37	19.71	19.73	19.73	19.73	18	5
15	QPSK	1	37	19.71	19.73	19.73	19.73		
15	QPSK	1	37	19.71	19.73	19.73	19.73		
15	QPSK	36	20	19.73	19.73	19.73	19.73		
15	QPSK	36	20	19.73	19.73	19.73	19.73		
15	QPSK	36	20	19.73	19.73	19.73	19.73		
15	QPSK	36	20	19.73	19.73	19.73	19.73		
Channel									
Frequency (MHz)									
10	QPSK	1	0	21.55	21.63	21.65	21.65	23	0
10	QPSK	1	25	21.53	21.79	21.74	21.74		
10	QPSK	1	25	21.53	21.79	21.74	21.74		
10	QPSK	25	0	20.83	20.84	20.77	20.77		
10	QPSK	25	0	20.83	20.84	20.77	20.77		
10	QPSK	25	12	20.77	20.8	20.82	20.82	22	1
10	QPSK	25	12	20.77	20.8	20.82	20.82		
10	QPSK	25	12	20.77	20.8	20.82	20.82		
10	QPSK	50	0	20.69	20.83	20.67	20.67		
10	QPSK	50	0	20.69	20.83	20.67	20.67		
10	QPSK	1	0	20.87	21.09	21.15	21.15	22	1
10	QPSK	1	0	20.87	21.09	21.15	21.15		
10	QPSK	1	0	20.87	21.09	21.15	21.15		
10	QPSK	1	49	21.02	21.05	20.97	20.97		
10	QPSK	1	49	21.02	21.05	20.97	20.97		
10	QPSK	25	0	19.73	19.85	19.77	19.77	21	2
10	QPSK	25	0	19.73	19.85	19.77	19.77		
10	QPSK	25	0	19.73	19.85	19.77	19.77		
10	QPSK	25	14	19.85	19.92	19.81	19.81		
10	QPSK	25	14	19.85	19.92	19.81	19.81		
10	QPSK	50	0	19.73	19.85	19.77	19.77	20	3
10	QPSK	50	0	19.73	19.85	19.77	19.77		
10	QPSK	50	0	19.73	19.85	19.77	19.77		
10	QPSK	50	1	19.85	19.92	19.81	19.81		
10	QPSK	50	1	19.85	19.92	19.81	19.81		
10	QPSK	1	0	19.71	19.85	19.84	19.84	18	5
10	QPSK	1	0	19.71	19.85	19.84	19.84		
10	QPSK	1	0	19.71	19.85	19.84	19.84		
10	QPSK	25	12	19.85	19.92	19.81	19.81		
10	QPSK	25	12	19.85	19.92	19.81	19.81		
10	QPSK	25	12	19.85	19.92	19.81	19.81	18	5
10	QPSK	25	12	19.85	19.92	19.81	19.81		
10	QPSK	25	12	19.85	19.92	19.81	19.81		
10	QPSK	25	12	19.85	19.92	19.81	19.81		
10	QPSK	25	12	19.85	19.92	19.81	19.81		
10	QPSK	50	0	19.73	19.85	19.77	19.77	20	3
10	QPSK	50	0	19.73	19.85	19.77	19.77		
10	QPSK	50	0	19.73	19.85	19.77	19.77		
10	QPSK	50	1	19.85	19.92	19.81	19.81		
10	QPSK	50	1	19.85	19.92	19.81	19.81		
10	QPSK	1	0	19.71	19.85	19.84	19.84	18	5
10	QPSK	1	0	19.71	19.85	19.84	19.84		
10	QPSK	1	0	19.71	19.85	19.84	19.84		
10	QPSK	25	12	19.85	19.92	19.81	19.81		
10	QPSK	25	12	19.85	19.92	19.81	19.81		
10	QPSK	25	12	19.85	19.92	19.81	19.81	18	5
10	QPSK	25	12	19.85	19.92	19.81	19.81		
10	QPSK	25	12	19.85	19.92	19.81	19.81		
10	QPSK	25	12	19.85	19.92	19.81	19.81		
10	QPSK	25	12	19.85	19.92	19.81	19.81		



Band 38_Ant 0											
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Max Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)			
Channel											
Frequency (MHz)											
20	QPSK	1	0	22.76	22.88	22.97		24	0		
20	QPSK	1	49	22.82	22.82	22.96					
20	QPSK	1	99	22.80	22.88	22.93					
20	QPSK	50	24	21.71	21.78	21.79					
20	QPSK	50	24	21.82	21.74	21.68					
20	QPSK	100	0	21.80	21.74	21.77		23	1		
20	QPSK	100	0	21.82	21.85	21.82					
20	16QAM	1	0	21.70	21.82	21.79					
20	16QAM	1	49	21.75	22.02	21.75					
20	16QAM	1	99	21.71	21.82	21.78					
20	16QAM	50	0	20.85	20.88	20.69		22	2		
20	16QAM	50	24	20.81	20.72	20.77					
20	16QAM	50	50	20.85	20.83	20.77					
20	16QAM	100	0	20.87	20.80	20.75					
20	16QAM	100	0	20.85	20.72	20.67					
20	64QAM	1	49	20.81	20.69	20.59		22	2		
20	64QAM	1	99	20.86	20.73	20.61					
20	64QAM	50	0	19.80	19.73	19.71					
20	64QAM	50	24	19.80	19.77	19.77					
20	64QAM	100	0	19.58	19.80	19.62					
20	256QAM	1	0	17.81	17.57	17.50		19	5		
20	256QAM	1	49	17.86	17.70	17.55					
20	256QAM	1	99	17.88	17.68	17.47					
20	256QAM	50	0	17.83	17.74	17.73					
20	256QAM	50	24	17.78	17.76	17.70					
20	256QAM	50	50	17.72	17.84	17.60		19	5		
20	256QAM	100	0	17.81	17.88	17.82					
Channel											
Frequency (MHz)											
15	QPSK	1	0	22.73	22.87	22.93		24	0		
15	QPSK	1	49	22.56	22.35	22.54					
15	QPSK	1	74	22.83	22.43	22.49					
15	QPSK	36	20	20.81	20.59	20.77					
15	QPSK	36	20	21.52	21.48	21.68					
15	QPSK	36	20	21.69	21.69	21.66		23	1		
15	QPSK	75	0	21.46	21.82	21.63					
15	16QAM	1	0	21.86	21.97	21.87					
15	16QAM	1	37	21.88	21.82	21.75					
15	16QAM	1	74	21.91	21.73	21.75					
15	16QAM	36	0	20.77	20.54	20.64		22	2		
15	16QAM	36	20	19.85	19.86	19.74					
15	16QAM	36	20	20.91	20.59	20.60					
15	16QAM	75	0	20.82	20.58	20.60					
15	64QAM	1	37	20.84	20.54	20.65					
15	64QAM	1	37	20.81	20.52	20.52		21	3		
15	64QAM	1	74	20.78	20.55	20.63					
15	64QAM	36	0	19.82	19.82	19.84					
15	64QAM	36	20	19.82	19.82	19.84					
15	64QAM	36	20	20.79	19.83	19.74					
15	256QAM	1	0	17.43	17.57	17.52		19	5		
15	256QAM	1	37	17.45	17.40	17.30					
15	256QAM	1	74	17.54	17.40	17.30					
15	256QAM	36	0	17.71	17.74	17.54					
15	256QAM	36	20	17.78	17.67	17.68					
15	256QAM	36	20	17.83	17.69	17.52		19	5		
15	256QAM	75	0	17.86	17.69	17.47					
Channel											
Frequency (MHz)											
10	QPSK	1	0	22.87	22.82	22.87		24	0		
10	QPSK	1	25	22.46	22.38	22.45					
10	QPSK	1	49	22.54	22.44	22.52					
10	QPSK	25	0	21.72	21.75	21.67					
10	QPSK	25	12	21.58	21.48	21.68					
10	QPSK	25	25	21.76	21.84	21.72		23	1		
10	QPSK	100	0	21.76	21.82	21.79					
10	16QAM	1	0	21.76	21.55	21.68					
10	16QAM	1	25	21.89	21.59	21.88					
10	16QAM	1	49	21.81	21.80	21.75					
10	16QAM	25	0	20.87	20.87	20.70		22	2		
10	16QAM	25	12	20.74	20.88	20.66					
10	16QAM	25	25	20.88	20.83	20.69					
10	16QAM	50	0	20.81	20.98	20.68					
10	64QAM	1	0	20.89	20.84	20.34					
10	64QAM	1	25	20.87	20.36	20.32		22	2		
10	64QAM	1	49	20.75	20.50	20.61					
10	64QAM	25	0	19.76	19.43	19.74					
10	64QAM	25	12	19.73	19.53	19.54					
10	64QAM	25	25	19.71	19.54	19.63					
10	256QAM	1	0	17.43	17.41	17.38		19	5		
10	256QAM	1	25	17.41	17.48	17.52					
10	256QAM	1	49	17.53	17.41	17.38					
10	256QAM	25	0	17.88	17.82	17.59					
10	256QAM	25	12	17.74	17.81	17.66					
10	256QAM	25	25	17.86	17.79	17.62		19	5		
10	256QAM	50	0	17.46	17.65	17.59					
Channel											
Frequency (MHz)											
5	QPSK	1	0	22.93	22.91	22.94		24	0		
5	QPSK	1	12	22.81	22.32	22.46					
5	QPSK	1	24	22.48	22.51	22.48					
5	QPSK	12	0	21.63	21.73	21.68					
5	QPSK	12	12	21.59	21.49	21.68					
5	QPSK	12	12	21.70	21.62	21.62		23	1		
5	QPSK	25	0	21.81	21.75	21.85					
5	16QAM	1	0	21.88	21.54	21.58					
5	16QAM	1	12	21.93	21.52	21.89					
5	16QAM	1	24	21.91	21.72	21.73					
5	16QAM	12	0	20.74	20.59	20.62		22	2		
5	16QAM	12	7	20.89	20.85	20.86					
5	16QAM	12	13	20.83	20.56	20.70					
5	16QAM	25	0	20.73	20.80	20.59					
5	64QAM	1	0	20.83	20.50	20.47					
5	64QAM	1	12	20.81	20.40	20.41		21	3		
5	64QAM	1	24	20.70	20.85	20.87					
5	64QAM	12	0	19.70	19.43	19.65					
5	64QAM	12	7	19.63	19.66	19.65					
5	64QAM	12	13	19.82	19.85	19.82					
5	256QAM	1	0	17.42	17.54	17.50		19	5		
5	256QAM	1	12	17.44	17.46	17.54					
5	256QAM	1	24	17.54	17.52	17.50					
5	256QAM	12	0	17.59	17.82	17.64					
5	256QAM	12	7	17.75	17.71	17.70					
5	256QAM	12	13	17.64	17.73	17.63		19	5		
5	256QAM	25	0	17.38	17.69	17.59					
Channel											
Frequency (MHz)											
20	QPSK	1	0	21.93	21.97	21.95		23	0		
20	QPSK	1	12	22.81	22.30	22.46					
20	QPSK	1	24	22.48	22.51	22.48					
20	QPSK	12	0	21.63	21.73	21.68					
20	QPSK	12	12	21.59	21.49	21.68					
20	QPSK	12	12	21.70	21.62	21.62		23	0		
20	QPSK	25	0	21.81	21.75	21.85					
20	16QAM	1	0	21.88	21.54	21.58					
20	16QAM	1	12	21.93	21.52	21.89					
20	16QAM	1	24	21.91	21.72	21.73					
20	16QAM	12	0	20.74	20.59	20.62		22	2		
20	16QAM	12	7	20.89	20.85	20.86					
20	16QAM	12	13	20.83	20.56	20.70					
20	16QAM	25	0	20.73	20.80	20.59					
20	64QAM	1	0	20.83	20.50	20.47					
20	64QAM	1	12	20.81	20.40	20.41		21	3		
20	64QAM	1	24	20.70	20.85	20.87					
20	64QAM	12	0	19.70	19.43	19.65					
20	64QAM	12	7	19.63	19.66	19.65					
20	64QAM	12	13	19.82	19.85	19.82					
20	256QAM	1	0	17.42	17.54	17.50		19	5		
20	256QAM	1	12	17.44	17.46	17.54					
20	256QAM	1	24	17.54	17.52	17.50					
20	256QAM	12	0	17.59	17.82	17.64					
20	256QAM	12	7	17.75	17.71	17.70					
20	256QAM	12	13	17.64	17.73	17.63		19	5		
20	256QAM	25	0	17.38	17.69	17.59					



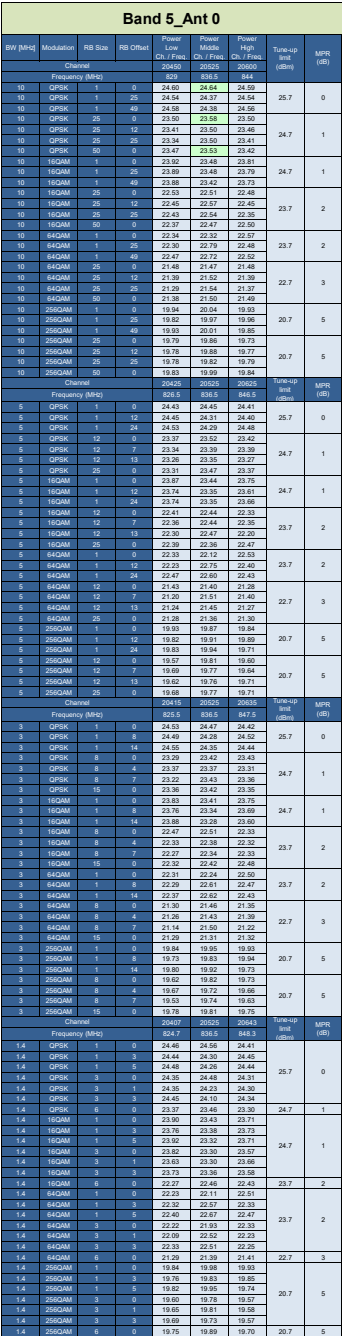
Band 38_Ant 3											
BW (MHz)	Modulation	RB Size	RB Offset	Power Low-Mid Ch / Freqs	Power High-Mid Ch / Freqs	Power Power High-Mid Ch / Freqs	Time-up Int (dBm)	MPE (dB)			
Channel											
Frequency (MHz)											
20	CPFSK	1	0	21.56	21.61	21.56	22.7	0			
20	CPFSK	1	49	21.45	21.49	21.50					
20	CPFSK	1	99	21.46	21.47	21.48					
20	CPFSK	50	1	21.58	21.58	21.57					
20	CPFSK	50	24	21.41	21.46	21.48					
20	CPFSK	100	1	21.52	21.52	21.54	22.7	0			
20	16QAM	1	0	21.52	21.59	21.58					
20	16QAM	1	99	21.47	21.40	21.35					
20	16QAM	50	1	21.60	21.49	21.56					
20	16QAM	50	24	21.52	21.53	21.55					
20	16QAM	100	1	21.52	21.52	21.55	22.7	0			
20	16QAM	100	50	21.58	21.57	21.57					
20	84QAM	1	0	21.42	21.50	21.56					
20	84QAM	1	49	21.53	21.55	21.58					
20	84QAM	50	1	21.57	21.55	21.54					
20	84QAM	50	24	21.52	21.55	21.55	22.7	0			
20	84QAM	100	1	21.49	21.57	21.55					
20	256QAM	1	0	19.46	19.40	19.37					
20	256QAM	1	49	19.52	19.37	19.53					
20	256QAM	1	99	19.70	19.27	19.51					
20	256QAM	50	1	19.54	19.29	19.47	20.7	2			
20	256QAM	50	24	19.50	19.29	19.55					
20	256QAM	100	1	19.74	19.51	19.46					
20	256QAM	100	50	19.44	19.41	19.45					
20	256QAM	100	100	19.44	19.41	19.45					
Channel											
Frequency (MHz)											
15	CPFSK	1	0	21.49	21.52	21.52	22.7	0			
15	CPFSK	1	37	21.40	21.41	21.41					
15	CPFSK	1	74	21.40	21.42	21.38					
15	CPFSK	36	1	21.56	21.53	21.48					
15	CPFSK	36	20	21.34	21.53	21.52					
15	CPFSK	36	39	21.46	21.42	21.38	22.7	0			
15	CPFSK	36	58	21.52	21.52	21.50					
15	16QAM	1	0	21.21	21.24	21.34					
15	16QAM	1	37	21.26	21.27	21.34					
15	16QAM	1	74	21.40	21.38	21.27					
15	16QAM	36	1	21.48	21.42	21.45	22.7	0			
15	16QAM	36	20	21.50	21.53	21.54					
15	16QAM	36	39	21.54	21.53	21.44					
15	16QAM	36	59	21.54	21.53	21.44					
15	16QAM	75	0	21.51	21.49	21.55					
15	84QAM	1	0	21.31	21.38	21.54	22.7	0			
15	84QAM	1	37	21.51	21.49	21.49					
15	84QAM	1	74	21.51	21.50	21.51					
15	84QAM	36	1	21.45	21.58	21.47					
15	84QAM	36	20	21.44	21.49	21.44					
15	84QAM	36	39	21.44	21.48	21.47	20.7	2			
15	84QAM	36	59	21.44	21.55	21.49					
15	84QAM	75	0	19.42	19.31	19.53					
15	256QAM	1	0	19.42	19.31	19.53					
15	256QAM	1	74	19.53	19.47	19.41					
15	256QAM	36	1	19.50	19.26	19.49	20.7	2			
15	256QAM	36	20	19.48	19.52	19.52					
15	256QAM	36	39	19.50	19.26	19.44					
15	256QAM	36	59	19.50	19.26	19.44					
15	256QAM	75	0	19.42	19.31	19.46					
Channel											
Frequency (MHz)											
10	CPFSK	1	0	21.47	21.52	21.52	22.7	0			
10	CPFSK	1	25	21.34	21.42	21.40					
10	CPFSK	1	49	21.49	21.47	21.44					
10	CPFSK	25	0	21.48	21.47	21.54					
10	CPFSK	25	13	21.37	21.45	21.48					
10	CPFSK	25	25	21.41	21.45	21.38	22.7	0			
10	CPFSK	50	0	21.43	21.53	21.49					
10	16QAM	1	0	21.21	21.23	21.33					
10	16QAM	1	25	21.34	21.27	21.47					
10	16QAM	1	49	21.41	21.34	21.30					
10	16QAM	25	0	21.56	21.41	21.53	22.7	0			
10	16QAM	25	12	21.48	21.51	21.53					
10	16QAM	25	25	21.48	21.50	21.46					
10	16QAM	50	0	21.49	21.47	21.49					
10	16QAM	50	1	21.34	21.47	21.49					
10	84QAM	1	0	21.34	21.47	21.49	22.7	0			
10	84QAM	1	25	21.48	21.45	21.50					
10	84QAM	1	49	21.52	21.43	21.48					
10	84QAM	25	1	21.55	21.54	21.42					
10	84QAM	25	12	21.41	21.43	21.49					
10	84QAM	25	25	21.37	21.48	21.51	20.7	2			
10	84QAM	50	0	21.38	21.47	21.48					
10	84QAM	50	1	19.34	19.33	19.54					
10	256QAM	1	0	19.34	19.33	19.54					
10	256QAM	1	25	19.58	19.49	19.52					
10	256QAM	1	49	19.50	19.48	19.49	20.7	2			
10	256QAM	25	0	19.44	19.22	19.41					
10	256QAM	25	12	19.46	19.41	19.45					
10	256QAM	25	25	19.59	19.41	19.43					
10	256QAM	50	0	19.51	19.31	19.51					
Channel											
Frequency (MHz)											
5	CPFSK	1	0	21.49	21.52	21.52	22.7	0			
5	CPFSK	1	13	21.41	21.42	21.43					
5	CPFSK	1	24	21.52	21.45	21.43					
5	CPFSK	12	0	21.49	21.57	21.54					
5	CPFSK	12	7	21.50	21.48	21.53					
5	CPFSK	12	13	21.49	21.46	21.37	22.7	0			
5	CPFSK	25	0	21.46	21.51	21.52					
5	16QAM	1	0	21.25	21.35	21.36					
5	16QAM	1	12	21.30	21.30	21.40					
5	16QAM	1	24	21.37	21.38	21.27					
5	16QAM	12	7	21.43	21.50	21.50	22.7	0			
5	16QAM	12	7	21.43	21.57	21.53					
5	16QAM	12	13	21.46	21.47	21.51					
5	16QAM	25	0	21.47	21.46	21.48					
5	84QAM	1	0	21.37	21.41	21.48					
5	84QAM	1	12	21.44	21.43	21.47	22.7	0			
5	84QAM	1	12	21.43	21.48	21.53					
5	84QAM	12	0	21.46	21.48	21.48	20.7	2			
5	84QAM	12	7	21.43	21.43	21.53					
5	84QAM	12	13	21.41	21.50	21.50					
5	84QAM	25	0	21.39	21.51	21.51					
5	84QAM	25	12	21.52	21.52	21.52					
5	256QAM	1	0	19.46	19.35	19.49	20.7	2			
5	256QAM	1	24	19.46	19.35	19.49					
5	256QAM	1	49	19.52	19.35	19.56					
5	256QAM	12	0	19.46	19.35	19.49					
5	256QAM	12	7	19.52	19.53	19.49					
5	256QAM	12	13	19.46	19.35	19.57	20.7	2			
5	256QAM	25	0	19.45	19.35	19.51					
5	256QAM	25	12	19.46	19.41	19.45					
5	256QAM	25	25	19.59	19.41	19.43					
5	256QAM	50	0	19.51	19.31	19.51					

Band 41_Ant 2															
RW [MHz]	Modulation	RB Size	RB Offset	Power Low Hdr Ch / Freq	Power Low Hdr Ch / Freq	Power Low Hdr Ch / Freq	Power Low Hdr Ch / Freq	Power Low Hdr Ch / Freq	Power Low Hdr Ch / Freq	Turn-up time (dBm)	MFR (dB)				
Channel															
Frequency (MHz)															
20	QPSK	1	0	20.49	20.51	20.74	20.76	20.97	20.99			21.7	0		
20	QPSK	1	49	20.47	20.56	20.63	20.48	20.58	20.56						
20	QPSK	1	99	20.4	20.48	20.61	20.42	20.49	20.49						
20	QPSK	50	0	20.63	20.66	20.72	20.59	20.65	20.65						
20	QPSK	50	24	20.57	20.66	20.68	20.54	20.57	20.57						
20	QPSK	100	0	20.4	20.61	20.65	20.63	20.53	20.53			21.7	0		
20	QPSK	100	50	20.4	20.62	20.62	20.4	20.47	20.47						
20	16QAM	1	0	20.53	20.41	20.54	20.42	20.51	20.51						
20	16QAM	1	49	20.63	20.51	20.54	20.48	20.57	20.57						
20	16QAM	1	99	20.43	20.73	20.39	20.4	20.4	20.4						
20	16QAM	50	0	20.47	20.62	20.43	20.42	20.54	20.54			21.7	0		
20	16QAM	50	24	20.46	20.44	20.5	20.58	20.58	20.58						
20	16QAM	50	50	20.6	20.63	20.54	20.64	20.58	20.58						
20	16QAM	100	0	20.49	20.62	20.51	20.41	20.43	20.43						
20	16QAM	100	50	20.51	20.47	20.31	20.18	20.38	20.38						
20	64QAM	1	49	20.29	20.47	20.26	20.31	20.29	20.29			21.7	0		
20	64QAM	1	99	20.28	20.56	20.47	20.32	20.3	20.3						
20	64QAM	50	0	20.53	20.63	20.48	20.49	20.49	20.59						
20	64QAM	50	24	20.4	20.67	20.43	20.46	20.45	20.45						
20	64QAM	100	0	20.42	20.55	20.49	20.36	20.5	20.5						
20	256QAM	1	0	19.66	19.57	19.52	19.46	19.33	19.33			20.7	1		
20	256QAM	1	49	19.64	19.36	19.33	19.33	19.35	19.35						
20	256QAM	1	99	19.84	19.67	19.41	19.35	19.48	19.48						
20	256QAM	50	0	19.62	19.55	19.37	19.32	19.21	19.21						
20	256QAM	50	24	19.60	19.61	19.38	19.44	19.48	19.48						
20	256QAM	50	50	19.71	19.45	19.47	19.39	19.34	19.34			20.7	1		
20	256QAM	100	0	19.73	19.61	19.57	19.38	19.42	19.42						
Channel															
Frequency (MHz)															
15	QPSK	1	0	20.04	20.04	20.04	20.44	20.53	20.53			21.7	0		
15	QPSK	1	37	20.4	20.5	20.63	20.41	20.44	20.44						
15	QPSK	1	74	20.28	20.4	20.52	20.32	20.38	20.38						
15	QPSK	36	0	20.61	20.67	20.68	20.48	20.51	20.51						
15	QPSK	36	20	20.48	20.6	20.63	20.52	20.5	20.5						
15	QPSK	36	39	20.33	20.34	20.58	20.55	20.52	20.52			21.7	0		
15	QPSK	75	0	20.33	20.5	20.63	20.6	20.63	20.63						
15	16QAM	1	0	20.46	20.3	20.44	20.4	20.46	20.46						
15	16QAM	1	37	20.33	20.46	20.29	20.39	20.42	20.42						
15	16QAM	1	74	20.34	20.66	20.33	20.34	20.31	20.31						
15	16QAM	36	0	20.38	20.61	20.39	20.4	20.5	20.5			21.7	0		
15	16QAM	36	20	20.37	20.5	20.42	20.4	20.4	20.4						
15	16QAM	36	39	20.58	20.51	20.42	20.52	20.53	20.53						
15	16QAM	75	0	20.44	20.56	20.47	20.29	20.37	20.37						
15	16QAM	1	37	20.33	20.52	20.32	20.16	20.32	20.32						
15	64QAM	1	37	20.18	20.43	20.21	20.2	20.17	20.17			21.7	0		
15	64QAM	1	74	20.23	20.47	20.21	20.23	20.25	20.25						
15	64QAM	36	0	20.23	20.6	20.38	20.41	20.53	20.53						
15	64QAM	36	20	20.32	20.58	20.37	20.44	20.38	20.38						
15	64QAM	36	39	20.44	20.36	20.43	20.55	20.44	20.44						
15	256QAM	1	0	19.54	19.66	19.46	19.27	19.38	19.38			20.7	1		
15	256QAM	1	37	19.57	19.55	19.52	19.30	19.42	19.42						
15	256QAM	1	74	19.77	19.55	19.32	19.30	19.42	19.42						
15	256QAM	36	0	19.79	19.47	19.32	19.23	19.29	19.29						
15	256QAM	36	20	19.73	19.52	19.35	19.36	19.47	19.47						
15	256QAM	36	39	19.61	19.42	19.35	19.31	19.31	19.31			20.7	1		
15	256QAM	75	0	19.72	19.52	19.55	19.27	19.33	19.33						
Channel															
Frequency (MHz)															
10	QPSK	1	0	25.01	25.47	25.93	26.39	26.85	26.85			21.7	0		
10	QPSK	1	25	20.43	20.64	20.71	20.48	20.55	20.55						
10	QPSK	1	49	20.41	20.49	20.57	20.38	20.5	20.5						
10	QPSK	1	49	20.3	20.44	20.49	20.34	20.39	20.39						
10	QPSK	25	0	20.56	20.61	20.61	20.53	20.53	20.53						
10	QPSK	25	10	20.45	20.61	20.61	20.49	20.54	20.54			21.7	0		
10	QPSK	25	25	20.29	20.4	20.6	20.55	20.47	20.47						
10	QPSK	25	49	20.48	20.56	20.56	20.38	20.46	20.46						
10	16QAM	1	0	20.41	20.39	20.46	20.35	20.49	20.49						
10	16QAM	1	25	20.35	20.52	20.3	20.39	20.42	20.42						
10	16QAM	1	49	20.33	20.68	20.33	20.24	20.33	20.33			21.7	0		
10	16QAM	25	0	20.4	20.58	20.34	20.35	20.42	20.42						
10	16QAM	25	10	20.38	20.52	20.48	20.55	20.48	20.48						
10	16QAM	25	25	20.54	20.61	20.49	20.57	20.5	20.5						
10	16QAM	50	0	20.46	20.53	20.43	20.32	20.4	20.4						
10	16QAM	1	0	20.21	20.42	20.24	20.46	20.38	20.38			21.7	0		
10	16QAM	1	25	20.25	20.45	20.24	20.24	20.25	20.25						
10	16QAM	1	49	20.15	20.48	20.2	20.2	20.2	20.2						
10	16QAM	25	0	20.23	20.6	20.49	20.43	20.58	20.58						
10	16QAM	25	10	20.33	20.58	20.37	20.39	20.35	20.35						
10	16QAM	25	25	20.43	20.55	20.48	20.45	20.42	20.42			21.7	0		
10	16QAM	50	0	20.39	20.43	20.39	20.36	20.38	20.38						
10	256QAM	1	0	19.55	19.53	19.48	19.43	19.30	19.30						
10	256QAM	1	25	19.63	19.55	19.34	19.30	19.28	19.28						
10	256QAM	1	49	19.72	19.57	19.32	19.31	19.29	19.29						
10	256QAM	25	0	19.79	19.53	19.34	19.24	19.24	19.24			20.7	1		
10	256QAM	25	10	19.76	19.48	19.27	19.34	19.41	19.41						
10	256QAM	25	25	19.64	19.41	19.42	19.38	19.25	19.25						
10	256QAM	50	0	19.66	19.50	19.53	19.33	19.32	19.32						
Channel															
Frequency (MHz)															
5	QPSK	1	0	20.37	20.57	20.68	20.46	20.49	20.56			21.7	0		
5	QPSK	1	24	20.42	20.5	20.55	20.43	20.49	20.49						
5	QPSK	12	0	20.53	20.55	20.7	20.5	20.63	20.63						
5	QPSK	12	7	20.46	20.53	20.64	20.52	20.68	20.68						
5	QPSK	12	13	20.3	20.42	20.58	20.57	20.45	20.45						
5	QPSK	25	0	20.39	20.51	20.53	20.52	20.49	20.49			21.7	0		
5	16QAM	1	0	20.46	20.36	20.47	20.35	20.45	20.45						
5	16QAM	1	12	20.34	20.48	20.24	20.41	20.36	20.36						
5	16QAM	1	24	20.3	20.49	20.64	20.28	20.3	20.29			21.7	0		
5	16QAM	1	48	20.41	20.52	20.43	20.33	20.44	20.44						
5	16QAM	12	7	20.41	20.57	20.39	20.48	20.55	20.55						
5	16QAM	12	13	20.41	20.51	20.42	20.3	20.52	20.52						
5	16QAM	25	0	20.43	20.5	20.43	20.33	20.31	20.31						
5	64QAM	1	0	20.2	20.42	20.22	20.09	20.32	20.32			21.7	0		
5	64QAM	1	12	20.24	20.42	20.17	20.19	20.24	20.24						
5	64QAM	1	24	20.2	20.48	20.2	20.2	20.19	20.19						
5	64QAM	12	0	20.23	20.6	20.44	20.39	20.5	20.5						
5	64QAM	12	13	20.34	20.62	20.5	20.52	20.45	20.45						
5	64QAM	25	0	20.37	20.61	20.47	20.28	20.38	20.38			21.7	0		
5	64QAM	25	12	20.44	20.46	20.43	20.46	20.43	20.43						
5	256QAM	1	0	19.60	19.57	19.52	19.22	19.32	19.32						
5	256QAM	1	24	19.61	19.62	19.31	19.28	19.38	19.38						
5	256QAM	12	0	19.80	19.43	19.43	19.29	19.29	19.29						
5	256QAM	12	7	19.73	19.54	19.27	19.36	19.34	19.34			20.7	1		
5	256QAM	12	13	19.64	19.46	19.42	19.28	19.25	19.25						
5	256QAM	25	0	19.75	19.48	19.27	19.33	19.37	19.37						



Reduced Power for DSI3

Band 2_Ant 2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low 18700	Power Med 18800	Power High 18900	Tune-up init (dB)	MPR (dB)		
20	QPSK	1	0	22.49	22.54	22.59			0	
20	QPSK	1	49	22.27	22.47	22.33				
20	QPSK	1	99	22.39	22.32	22.34			1	
20	QPSK	50	24	21.27	21.41	21.28				
20	QPSK	50	50	21.31	21.51	21.41			2	
20	QPSK	100	0	21.5	21.26	21.25				
20	16QAM	1	49	21.56	21.66	21.67			2	
20	16QAM	1	99	21.61	21.59	21.58				
20	16QAM	50	0	20.26	20.6	20.23			2	
20	16QAM	50	50	20.47	20.37	20.26				
20	16QAM	100	0	20.38	20.46	20.42			2	
20	16QAM	100	50	20.39	20.43	20.34				
20	64QAM	1	49	20.44	20.5	20.42			3	
20	64QAM	50	24	19.37	19.5	19.33				
20	64QAM	50	50	19.49	19.37	19.26			2	
20	256QAM	1	0	17.61	17.64	17.65				
20	256QAM	1	49	17.60	17.68	17.64			5	
20	256QAM	1	99	17.48	17.51	17.52				
20	256QAM	50	0	17.51	17.48	17.59			5	
20	256QAM	50	24	17.36	17.48	17.51				
20	256QAM	50	50	17.38	17.38	17.54			5	
20	256QAM	100	0	17.53	17.59	17.51				
Channel										
18700	18800	18900	Tune-up init (dB)	MPR (dB)						
16	QPSK	1	0	22.52	22.52	22.57			24	0
16	QPSK	1	37	22.18	22.42	22.37				
16	QPSK	1	74	22.33	22.38	22.39			23	1
16	QPSK	36	0	21.25	21.50	21.22				
16	QPSK	36	20	21.29	21.52	21.43			23	1
16	QPSK	36	50	21.33	21.51	21.37				
16	QPSK	75	0	21.38	21.42	21.36			23	1
16	16QAM	1	0	21.64	21.74	21.54				
16	16QAM	1	37	21.59	21.71	21.57			23	1
16	16QAM	1	74	21.61	21.63	21.57				
16	16QAM	36	0	20.17	20.50	20.19			22	2
16	16QAM	36	20	20.33	20.53	20.38				
16	16QAM	36	50	20.32	20.39	20.53			22	2
16	16QAM	75	0	20.33	20.37	20.38				
16	64QAM	1	37	20.48	20.57	20.58			22	2
16	64QAM	1	74	20.56	20.52	20.39				
16	64QAM	36	0	19.31	19.37	19.31			21	3
16	64QAM	36	20	19.37	19.35	19.31				
16	64QAM	36	50	19.42	19.31	19.17			19	5
16	256QAM	1	0	17.48	17.60	17.50				
16	256QAM	1	37	17.48	17.68	17.64			19	5
16	256QAM	1	74	17.47	17.50	17.50				
16	256QAM	36	0	17.44	17.48	17.53			19	5
16	256QAM	36	20	17.36	17.42	17.37				
16	256QAM	36	50	17.32	17.38	17.48			19	5
16	256QAM	75	0	17.46	17.51	17.47				
Channel										
18700	18800	18900	Tune-up init (dB)	MPR (dB)						
10	QPSK	1	0	22.51	22.51	22.41			24	0
10	QPSK	1	25	22.33	22.42	22.26				
10	QPSK	1	49	22.35	22.38	22.31			23	1
10	QPSK	1	74	21.31	21.57	21.31				
10	QPSK	1	12	21.33	21.51	21.37			23	1
10	QPSK	25	24	21.32	21.36	21.17				
10	QPSK	50	0	21.27	21.39	21.36			23	1
10	16QAM	1	0	21.71	21.64	21.60				
10	16QAM	1	25	21.60	21.63	21.53			23	1
10	16QAM	1	49	21.52	21.52	21.58				
10	16QAM	25	0	20.18	20.64	20.22			22	2
10	16QAM	25	12	20.37	20.45	20.48				
10	16QAM	25	24	20.49	20.34	20.25			22	2
10	16QAM	50	0	20.29	20.45	20.26				
10	64QAM	1	25	20.59	20.68	20.49			22	2
10	64QAM	1	25	20.42	20.59	20.41				
10	64QAM	49	20.52	20.53	20.37			21	3	
10	64QAM	50	20.32	19.49	19.27					
10	64QAM	25	12	19.39	19.40	19.26			19	5
10	64QAM	25	24	19.48	19.35	19.20				
10	256QAM	1	25	17.42	17.56	17.50			19	5
10	256QAM	1	49	17.44	17.57	17.52				
10	256QAM	25	0	17.39	17.46	17.47			19	5
10	256QAM	25	12	17.24	17.48	17.42				
10	256QAM	25	24	17.32	17.38	17.54			19	5
10	256QAM	50	0	17.40	17.47	17.49				
Channel										
18700	18800	18900	Tune-up init (dB)	MPR (dB)						
5	QPSK	1	0	22.48	22.47	22.42			24	0
5	QPSK	1	12	22.28	22.46	22.37				
5	QPSK	1	25	22.25	22.44	22.30			23	1
5	QPSK	12	0	21.23	21.63	21.26				
5	QPSK	12	7	21.24	21.52	21.46			23	1
5	QPSK	12	14	21.25	21.51	21.19				
5	QPSK	25	0	21.34	21.48	21.31			23	1
5	16QAM	1	0	21.60	21.72	21.60				
5	16QAM	1	12	21.48	21.48	21.61			22	2
5	16QAM	1	24	21.59	21.57	21.59				
5	16QAM	12	0	20.31	20.55	20.21			22	2
5	16QAM	12	14	20.37	20.34	20.34				
5	16QAM	12	19	20.46	20.30	20.29			22	2
5	16QAM	25	0	20.37	20.42	20.36				
5	64QAM	1	12	20.37	20.64	20.46			22	2
5	64QAM	1	12	20.39	20.44	20.45				
5	64QAM	12	0	19.27	19.51	19.26			19	5
5	64QAM	12	7	19.38	19.40	19.37				
5	64QAM	12	14	19.45	19.48	19.34			19	5
5	64QAM	25	0	19.42	19.39	19.31				
5	256QAM	1	0	17.58	17.57	17.53			19	5
5	256QAM	1	12	17.59	17.62	17.64				
5	256QAM	1	24	17.46	17.44	17.47			19	5
5	256QAM	12	0	17.45	17.41	17.46				
5	256QAM	12	14	17.32	17.47	17.46			19	5
5	256QAM	12	19	17.25	17.38	17.39				
5	256QAM	25	0	17.41	17.47	17.49				
Channel										
18700	18800	18900	Tune-up init (dB)	MPR (dB)						
3	QPSK	1	0	22.53	22.49	22.37			24	0
3	QPSK	1	9	22.27	22.43	22.32				
3	QPSK	1	18	22.27	22.41	22.32			23	1
3	QPSK	3	0	21.31	21.54	21.21				
3	QPSK	3	4	21.27	21.44	21.26			23	1
3	QPSK	3	9	21.52	21.36	21.35				
3	QPSK	15	0	21.40	21.51	21.33			23	1
3	16QAM	1	0	21.84	21.91	21.80				
3	16QAM	1	9	21.85	21.88	21.81			23	1
3	16QAM	1	14	21.57	21.62	21.50				
3	16QAM	3	0	20.37	20.56	20.29			22	2
3	16QAM	3	9	20.32	20.49	20.34				
3	16QAM	3	18	20.37	20.41	20.18			21	3
3	16QAM	15	0	20.36	20.36	20.22				
3	16QAM	15	9	20.68	20.63	20.43			21	3
3	64QAM	1	8	20.49	20.53	20.16				
3	64QAM	1	14	20.52	20.42	19.17			19	5
3	64QAM	8	0	19.32	19.63	19.19				
3	64QAM	8	4	19.29	19.51	19.36			19	5
3	64QAM	8	9	19.51	19.38	19.17				
3	64QAM	15	0	19.41	19.44	19.37			19	5
3	256QAM	1	0	17.83	17.82	17.57				
3	256QAM	1	9	17.83	17.88	17.68			19	5
3	256QAM	1	14	17.44	17.50	17.54				
3	256QAM	3	0	17.42	17.47	17.49			19	5
3	256QAM	3	9	17.33	17.48	17.43				
3	256QAM	3	18	17.37	17.38	17.53			19	5
3	256QAM	15	0	17.42	17.49	17.50				
Channel										
18700	18800	18900	Tune-up init (dB)	MPR (dB)						
1.4	QPSK	1	0	22.54	22.44	22.36			24	0
1.4	QPSK	1	24	22.24	22.46	22.28				
1.4	QPSK	1	5	22.34	22.22	22.33			23	1
1.4	QPSK	3	0	21.26	21.53	21.28				
1.4	QPSK	3	3	22.26	22.03	22.08			23	1
1.4	QPSK	3	3	22.40	22.34	22.19				
1.4	QPSK	1	0	22.40	22.34	22.19			23	1
1.4	QPSK	1	0	21.77	21.72	21.67				
1.4	QPSK	3	3	22.40	22.34	22.19			23	1
1.4	QPSK	3	3	21.54	21.63	21.59				
1.4	QPSK	3	3	21.55	21.53	21.53			23	1
1.4	QPSK	3	0	21.26	21.58	21.19				
1.4	QPSK	1	1	21.30	21.43	21.27			22	2
1.4	QPSK	1	1	21.33	21.41	21.33				
1.4	QPSK	6	0	20.38	20.48	20.33			22	2
1.4	QPSK	6	0	20.66	20.55	20.46				
1.4	QPSK	6	6	20.56	20.47	20.47			22	2
1.4	QPSK	6	6	20.50	20.48	20.44				
1.4	QPSK	3	3	20.39	20.41	20.18			21	3
1.4	QPSK	6	6	19.37	19.37	19.25				
1.4	QPSK	6	6	19.41	19.46	19.47			19	5
1.4	QPSK	6	3	17.45	17.56	17.55				
1.4	QPSK	6	6	17.41						



Band 5_Ant 1											
SR Band	Modulation	RB Size	RB Count	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]	Power [dBm]
Channel				256QAM	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM
Frequency (MHz)				25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
10	QPSK	1	0	24.81	24.82	24.84	24.85	24.86	24.87	24.88	24.89
10	QPSK	1	25	24.84	24.86	24.88	24.89	24.90	24.91	24.92	24.93
10	QPSK	1	50	24.84	24.85	24.86	24.87	24.88	24.89	24.90	24.91
10	QPSK	25	0	23.63	23.72	23.82	23.83	23.84	23.85	23.86	23.87
10	QPSK	25	12	23.50	23.53	23.56	23.57	23.58	23.59	23.60	23.61
10	QPSK	25	25	23.50	23.51	23.52	23.53	23.54	23.55	23.56	23.57
10	QPSK	50	0	23.59	23.70	23.81	23.81	23.82	23.83	23.84	23.85
10	16QAM	1	0	23.88	23.89	23.90	23.91	23.92	23.93	23.94	23.95
10	16QAM	1	25	23.90	23.91	23.92	23.93	23.94	23.95	23.96	23.97
10	16QAM	25	0	22.63	22.64	22.65	22.66	22.67	22.68	22.69	22.70
10	16QAM	25	12	22.64	22.68	22.71	22.72	22.73	22.74	22.75	22.76
10	16QAM	25	25	22.64	22.65	22.66	22.67	22.68	22.69	22.70	22.71
10	16QAM	50	0	22.69	22.76	22.83	22.83	22.84	22.85	22.86	22.87
10	16QAM	50	12	22.69	22.70	22.71	22.72	22.73	22.74	22.75	22.76
10	16QAM	50	25	22.69	22.70	22.71	22.72	22.73	22.74	22.75	22.76
10	64QAM	1	26	22.77	22.80	22.83	22.84	22.85	22.86	22.87	22.88
10	64QAM	25	0	22.83	22.89	22.95	22.95	22.96	22.97	22.98	22.99
10	64QAM	25	12	22.83	22.84	22.85	22.86	22.87	22.88	22.89	22.90
10	64QAM	25	25	22.83	22.84	22.85	22.86	22.87	22.88	22.89	22.90
10	64QAM	50	0	21.55	21.53	21.53	21.53	21.53	21.53	21.53	21.53
10	64QAM	50	25	21.48	21.47	21.47	21.47	21.47	21.47	21.47	21.47
10	64QAM	50	50	21.48	21.49	21.50	21.51	21.52	21.53	21.54	21.55
10	256QAM	1	0	20.14	20.20	20.26	20.26	20.27	20.28	20.29	20.30
10	256QAM	1	25	20.02	20.04	20.06	20.07	20.08	20.09	20.10	20.11
10	256QAM	25	0	19.76	19.80	19.84	19.84	19.85	19.86	19.87	19.88
10	256QAM	25	12	19.85	19.86	19.88	19.89	19.90	19.91	19.92	19.93
10	256QAM	25	25	19.85	19.86	19.87	19.88	19.89	19.90	19.91	19.92
10	256QAM	50	0	19.83	19.89	19.95	19.95	19.96	19.97	19.98	19.99
Channel				256QAM	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM
Frequency (MHz)				24.95	24.95	24.95	24.95	24.95	24.95	24.95	24.95
5	QPSK	1	0	24.81	24.49	24.49	24.39	24.39	24.39	24.39	24.39
5	QPSK	1	12	24.43	24.53	24.63	24.63	24.63	24.63	24.63	24.63
5	QPSK	1	25	24.37	24.47	24.57	24.57	24.57	24.57	24.57	24.57
5	QPSK	12	0	23.50	23.57	23.67	23.67	23.67	23.67	23.67	23.67
5	QPSK	12	7	23.43	23.48	23.53	23.54	23.54	23.54	23.54	23.54
5	QPSK	12	14	23.46	23.48	23.49	23.49	23.49	23.49	23.49	23.49
5	QPSK	25	0	23.36	23.32	23.32	23.32	23.32	23.32	23.32	23.32
5	QPSK	25	12	23.35	23.37	23.40	23.40	23.40	23.40	23.40	23.40
5	QPSK	25	25	23.35	23.36	23.37	23.38	23.38	23.38	23.38	23.38
5	16QAM	1	24	23.85	23.87	23.88	23.88	23.88	23.88	23.88	23.88
5	16QAM	12	0	22.65	22.68	22.71	22.71	22.71	22.71	22.71	22.71
5	16QAM	12	14	22.65	22.68	22.71	22.71	22.71	22.71	22.71	22.71
5	16QAM	12	19	22.37	22.38	22.40	22.40	22.40	22.40	22.40	22.40
5	16QAM	25	0	22.35	22.39	22.42	22.42	22.42	22.42	22.42	22.42
5	16QAM	25	12	22.44	22.47	22.49	22.49	22.49	22.49	22.49	22.49
5	16QAM	1	12	22.67	22.68	22.68	22.67	22.67	22.67	22.67	22.67
5	16QAM	1	24	22.76	22.79	22.79	22.78	22.78	22.78	22.78	22.78
5	16QAM	12	7	21.47	21.49	21.49	21.47	21.47	21.47	21.47	21.47
5	16QAM	12	13	21.43	21.48	21.51	21.51	21.51	21.51	21.51	21.51
5	16QAM	25	0	21.37	21.38	21.38	21.37	21.37	21.37	21.37	21.37
5	256QAM	1	0	19.83	20.08	20.08	19.84	19.84	19.84	19.84	19.84
5	256QAM	1	12	19.89	19.93	19.95	19.95	19.95	19.95	19.95	19.95
5	256QAM	1	25	19.89	19.91	19.93	19.93	19.93	19.93	19.93	19.93
5	256QAM	12	0	19.81	19.78	19.78	19.80	19.80	19.80	19.80	19.80
5	256QAM	12	7	19.80	19.81	19.81	19.79	19.79	19.79	19.79	19.79
5	256QAM	12	13	19.81	19.81	19.81	19.80	19.80	19.80	19.80	19.80
5	256QAM	25	0	19.87	19.92	19.95	19.95	19.95	19.95	19.95	19.95
Channel				256QAM	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM
Frequency (MHz)				24.95	24.95	24.95	24.95	24.95	24.95	24.95	24.95
3	QPSK	1	0	24.81	24.47	24.47	24.42	24.42	24.42	24.42	24.42
3	QPSK	1	8	24.42	24.51	24.58	24.58	24.58	24.58	24.58	24.58
3	QPSK	1	16	24.40	24.49	24.54	24.54	24.54	24.54	24.54	24.54
3	QPSK	8	0	23.47	23.56	23.66	23.66	23.66	23.66	23.66	23.66
3	QPSK	8	4	23.40	23.42	23.45	23.45	23.45	23.45	23.45	23.45
3	QPSK	8	8	23.45	23.46	23.47	23.47	23.47	23.47	23.47	23.47
3	QPSK	15	0	23.47	23.56	23.64	23.64	23.64	23.64	23.64	23.64
3	16QAM	1	0	23.88	23.70	23.63	23.63	23.63	23.63	23.63	23.63
3	16QAM	1	8	23.83	23.83	23.83	23.83	23.83	23.83	23.83	23.83
3	16QAM	1	14	23.80	23.81	23.81	23.81	23.81	23.81	23.81	23.81
3	16QAM	8	0	22.59	22.61	22.64	22.64	22.64	22.64	22.64	22.64
3	16QAM	8	7	22.52	22.52	22.52	22.52	22.52	22.52	22.52	22.52
3	16QAM	8	7	22.48	22.54	22.53	22.53	22.53	22.53	22.53	22.53
3	16QAM	15	0	22.43	22.49	22.53	22.53	22.53	22.53	22.53	22.53
3	16QAM	15	8	22.48	22.48	22.48	22.48	22.48	22.48	22.48	22.48
3	16QAM	1	8	22.76	22.78	22.78	22.75	22.75	22.75	22.75	22.75
3	32QAM	1	14	22.69	22.61	22.56	22.56	22.56	22.56	22.56	22.56
3	32QAM	1	14	22.63	22.63	22.63	22.63	22.63	22.63	22.63	22.63
3	32QAM	8	4	21.43	21.32	21.40	21.40	21.40	21.40	21.40	21.40
3	32QAM	8	7	21.48	21.51	21.42	21.42	21.42	21.42	21.42	21.42
3	32QAM	8	7	21.45	21.45	21.45	21.45	21.45	21.45	21.45	21.45
3	256QAM	1	0	19.92	20.05	20.05	19.88	19.88	19.88	19.88	19.88
3	256QAM	1	8	19.86	19.96	19.86	19.86	19.86	19.86	19.86	19.86
3	256QAM	1	8	19.86	19.86	19.86	19.86	19.86	19.86	19.86	19.86
3	256QAM	8	0	19.56	19.66	19.75	19.75	19.75	19.75	19.75	19.75
3	256QAM	8	4	19.77	19.79	19.79	19.79	19.79	19.79	19.79	19.79
3	256QAM	8	4	19.77	19.77	19.77	19.77	19.77	19.77	19.77	19.77
3	256QAM	15	0	19.74	19.84	19.91	19.91	19.91	19.91	19.91	19.91
Channel				256QAM	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM
Frequency (MHz)				24.95	24.95	24.95	24.95	24.95	24.95	24.95	24.95
1.4	QPSK	1	0	24.45	24.49	24.49	24.37	24.37	24.37	24.37	24.37
1.4	QPSK	1	3	24.46	24.43	24.50	24.50	24.50	24.50	24.50	24.50
1.4	QPSK	1	6	24.47	24.39	24.46	24.46	24.46	24.46	24.46	24.46
1.4	QPSK	3	0	24.36	24.44	24.49	24.49	24.49	24.49	24.49	24.49
1.4	QPSK	3	1	24.28	24.33	24.37	24.37	24.37	24.37	24.37	24.37
1.4	QPSK	3	3	24.33	24.36	24.39	24.39	24.39	24.39	24.39	24.39
1.4	16QAM	1	0	23.96	23.74	23.68	23.68	23.68	23.68	23.68	23.68
1.4	16QAM	1	3	23.78	23.84	23.83	23.83	23.83	23.83	23.83	23.83
1.4	16QAM	3	0	23.74	23.65	23.64	23.64	23.64	23.64	23.64	23.64
1.4	16QAM	3	1	23.81	23.81	23.79	23.79	23.79	23.79	23.79	23.79
1.4	16QAM	3	1	23.79	23.79	23.78	23.78	23.78	23.78	23.78	23.78
1.4	16QAM	8	0	22.48	22.54	22.57	22.57	22.57	22.57	22.57	22.57
1.4	16QAM	8	3	22.46	22.46	22.47	22.47	22.47	22.47	22.47	22.47
1.4	16QAM	8	3	22.48	22.48	22.48	22.48	22.48	22.48	22.48	22.48
1.4	16QAM	1	5	22.73	22.48	22.47	22.47	22.47	22.47	22.47	22.47
1.4	16QAM	1	5	22.73	22.48	22.47	22.47	22.47	22.47	22.47	22.47
1.4	32QAM	1	0	22.29	22.30	22.31	22.31	22.31	22.31	22.31	22.31
1.4	32QAM	1	3	22.73	22.41	22.41	22.41	22.41	22.41	22.41	22.41
1.4	32QAM	1	6	22.40	22.40	22.43	22.43	22.43	22.43	22.43	22.43
1.4	32QAM	3	0	19.83							

Band 7_Ant 0									
Ref	Band	Modulation	RB Size	RB Count	Power [dBm]	Power [dBm]	Power [dBm]	Throughput (Mbps)	MPR (dB)
Channel 1									
Frequency (MHz)									
20	QPSK	1	6		22.02	22.14	22.02		
20	QPSK	1	48		21.74	21.99	21.62		23
20	QPSK	1	24		21.82	21.91	21.82		22
20	QPSK	50	0		21.15	21.20	21.15		
20	QPSK	20	24		20.84	21.09	20.87		22
20	QPSK	50	0		21.15	21.20	21.15		
20	QPSK	100	0		20.98	21.14	20.92		
20	HQAM	1	6		21.19	21.10	20.77		22
20	HQAM	1	48		20.77	21.43	20.77		
20	HQAM	1	99		20.89	21.22	21.10		
20	HQAM	1	12		19.87	20.10	19.86		
20	HQAM	100	0		19.74	20.02	19.76		21
20	HQAM	50	50		19.85	20.05	19.85		
20	HQAM	1	49		19.81	20.04	19.92		
20	HQAM	1	99		19.91	20.26	20.08		
20	HQAM	1	19		19.77	19.98	19.77		
20	HQAM	10	24		18.82	19.22	18.82		20
20	HQAM	50	50		18.88	19.12	18.88		
20	HQAM	100	100		18.78	18.98	18.78		
20	25GQAM	1	0		17.11	17.20	17.04		
20	25GQAM	1	49		17.03	17.19	17.07		18
20	25GQAM	1	99		16.95	17.18	16.95		
20	25GQAM	50	0		16.93	17.05	16.90		
20	25GQAM	100	24		16.91	17.05	16.90		18
20	25GQAM	1	99		17.04	17.04	16.91		
20	25GQAM	100	0		16.93	17.04	16.88		
Channel 2									
Frequency (MHz)									
15	QPSK	1	6		21.62	21.68	21.77		
15	QPSK	1	39		21.65	21.78	21.77		23
15	QPSK	1	78		21.65	21.78	21.77		
15	QPSK	36	0		20.47	20.81	20.64		
15	QPSK	36	20		20.68	20.20	20.78		22
15	QPSK	36	0		20.38	20.38	20.37		
15	QPSK	36	0		20.69	20.83	20.73		
15	HQAM	1	6		20.61	20.65	21.1		22
15	HQAM	1	48		20.44	20.73	20.65		
15	HQAM	1	74		20.54	20.81	21.08		
15	HQAM	36	0		19.49	19.91	19.75		
15	HQAM	36	0		19.42	19.82	19.68		
15	HQAM	36	39		19.68	19.84	19.88		
15	HQAM	75	0		19.58	19.74	19.87		
15	HQAM	1	21		19.58	19.74	19.74		
15	HQAM	1	37		19.72	19.91	19.91		
15	HQAM	1	74		19.87	19.95	20.05		
15	HQAM	1	18		18.82	18.82	18.82		18
15	HQAM	36	20		18.6	18.87	18.94		
15	HQAM	36	39		18.71	18.91	18.88		
15	HQAM	36	36		18.54	18.54	18.54		
15	25GQAM	1	0		16.92	17.08	16.90		
15	25GQAM	1	37		16.84	17.05	16.83		18
15	25GQAM	1	74		16.84	17.05	16.83		
15	25GQAM	36	20		16.78	16.91	16.82		18
15	25GQAM	36	39		16.78	16.91	16.82		
Channel 3									
Frequency (MHz)									
10	QPSK	1	6		21.42	21.81	21.77		
10	QPSK	1	25		21.31	21.71	21.72		23
10	QPSK	1	50		21.77	21.77	21.77		
10	QPSK	20	0		20.43	20.83	20.69		
10	QPSK	12	24		20.24	20.28	20.74		
10	QPSK	40	0		20.47	20.82	20.67		
10	QPSK	60	0		20.43	20.79	20.77		
10	HQAM	1	6		20.31	20.66	20.81		22
10	HQAM	1	48		20.14	20.66	20.66		
10	HQAM	1	49		20.9	21.13	20.83		
10	HQAM	25	0		19.26	19.79	19.78		
10	HQAM	25	25		19.33	19.33	19.33		
10	HQAM	25	50		19.39	19.39	19.39		
10	HQAM	50	0		19.5	19.88	19.73		
10	HQAM	1	44		19.07	19.44	19.44		
10	HQAM	1	25		19.34	19.69	19.63		21
10	HQAM	1	49		19.69	19.94	19.83		
10	HQAM	25	12		18.82	18.82	18.82		20
10	HQAM	25	12		18.33	18.33	18.33		
10	25GQAM	1	0		17.05	17.07	16.90		
10	25GQAM	1	25		16.97	17.03	17.06		18
10	25GQAM	1	50		17.05	17.05	17.05		
10	25GQAM	25	0		16.82	16.82	16.82		
10	25GQAM	25	12		16.77	16.88	16.88		18
10	25GQAM	50	0		16.81	16.81	16.81		
10	25GQAM	50	0		16.81	16.92	16.81		
Channel 4									
Frequency (MHz)									
5	QPSK	1	6		21.4	21.81	21.69		
5	QPSK	1	12		21.39	21.71	21.72		23
5	QPSK	1	24		21.31	21.94	21.67		20
5	QPSK	1	48		20.74	20.74	20.74		
5	QPSK	12	7		20.41	20.57	20.82		22
5	QPSK	12	18		20.52	20.8	20.72		
5	QPSK	12	36		20.38	20.67	20.67		
5	HQAM	1	6		20.4	21.2	21.1		
5	HQAM	1	12		20.48	21.28	20.89		22
5	HQAM	1	24		20.48	21.08	21.1		
5	HQAM	12	7		19.45	19.71	19.64		
5	HQAM	12	18		19.38	19.61	19.62		21
5	HQAM	12	36		19.08	19.33	19.33		
5	HQAM	20	0		19.37	19.97	19.93		
5	HQAM	20	12		19.35	19.97	19.97		
5	HQAM	20	12		19.55	19.97	20.1		21
5	HQAM	24	19		19.59	19.63	19.15		
5	HQAM	24	12		19.61	19.71	19.74		
5	HQAM	24	12		18.41	18.95	18.91		20
5	25GQAM	12	13		18.39	18.68	18.85		
5	25GQAM	12	13		17.92	17.92	18.04		
5	25GQAM	12	12		17.02	17.02	16.98		18
5	25GQAM	12	12		16.78	16.98	16.87		
5	25GQAM	12	7		16.78	16.85	16.84		
5	25GQAM	12	7		16.67	16.67	16.67		18
5	25GQAM	25	0		16.79	16.98	16.78		

Band 7_Ant 1												
RF (MHz)	Modulation	RB Size	RB Offset	Power Ch./F1	Power F1/F2	Power F2/F3	Transmit rate (kb/s)	MPE dB				
Channel												
Frequency (MHz)												
20	QPSK	1	0	22.26	22.27	23.80						
20	QPSK	1	46	22.26	22.21	22.40			24	0		
20	QPSK	1	48	22.26	22.21	22.40						
20	QPSK	50	0	21.47	21.55	21.50						
20	QPSK	50	24	21.43	21.48	21.51			23	1		
20	QPSK	50	48	21.43	21.48	21.51						
20	QPSK	100	0	21.44	21.53	21.45						
20	HQPSK	1	0	21.29	21.43	21.29						
20	HQPSK	1	46	21.29	21.48	21.29			23	1		
20	HQPSK	1	48	21.29	21.48	21.29						
20	HQPSK	50	0	20.30	20.37	20.51						
20	HQPSK	50	24	20.33	20.42	20.45			22			
20	HQPSK	50	48	20.42	20.46	20.47						
20	HQPSK	100	0	20.52	20.42	20.50						
20	HQPSK	100	24	20.52	20.37	20.50			22			
20	HQPSK	100	48	20.51	20.37	20.50						
20	HQPSK	50	0	21.31	21.47	21.31						
20	HQPSK	50	24	20.30	20.42	20.46			21	3		
20	HQPSK	50	48	20.48	20.43	20.44						
20	HQPSK	100	0	20.38	20.48	20.41						
20	HQPSK	100	24	20.38	20.33	20.41						
20	HQPSK	100	48	20.37	20.31	20.34						
Channel												
Frequency (MHz)												
15	QPSK	1	0	22.19	22.37	23.75						
15	QPSK	1	47	22.19	22.33	22.24			24	0		
15	QPSK	1	49	22.19	22.27	22.21						
15	QPSK	36	0	21.24	21.44	21.24						
15	QPSK	36	20	21.27	21.40	21.42			23	1		
15	QPSK	36	40	21.27	21.40	21.42						
15	QPSK	75	0	21.28	21.60	21.28						
15	HQPSK	1	0	21.15	21.38	21.22						
15	HQPSK	1	47	21.15	21.64	21.23			23	1		
15	HQPSK	1	49	21.14	21.64	21.20						
15	HQPSK	36	0	20.25	20.32	20.25						
15	HQPSK	36	20	20.15	20.44	20.45			22	2		
15	HQPSK	36	40	20.34	20.42	20.27						
15	HQPSK	75	0	20.29	20.26	20.34						
15	HQPSK	75	20	20.29	20.36	20.34						
15	HQPSK	75	40	20.30	20.36	20.31			22			
15	HQPSK	1	0	20.50	20.46	20.41						
15	HQPSK	1	48									
15	HQPSK	1	49									
15	HQPSK	36	0	19.32	17.41	17.38						
15	HQPSK	36	20	17.23	17.58	17.23			19	5		
15	HQPSK	36	40	17.48	17.48	17.38						
15	HQPSK	75	0	19.24	17.28	17.19						
Channel												
Frequency (MHz)												
10	QPSK	1	0	22.11	22.27	23.21						
10	QPSK	1	25	22.15	22.33	22.26			24	0		
10	QPSK	1	26	22.23	22.23	22.23						
10	QPSK	25	0	21.27	21.43	21.28						
10	QPSK	25	12	21.34	21.26	21.31			23	1		
10	QPSK	25	24	21.31	21.41	21.36						
10	HQPSK	1	0	21.17	21.37	21.17						
10	HQPSK	1	25	21.15	21.63	21.15			23	1		
10	HQPSK	1	49	21.25	21.60	21.24						
10	HQPSK	25	0	20.21	20.39	20.23						
10	HQPSK	25	12	20.35	20.35	20.35			22			
10	HQPSK	25	24	20.35	20.35	20.35						
10	HQPSK	50	0	20.21	20.35	20.29						
10	HQPSK	50	12	20.43	20.35	20.35			22			
10	HQPSK	50	24	20.45	20.64	20.50						
10	HQPSK	1	49	20.52	20.44	20.38						
10	HQPSK	25	12	19.31	19.33	19.32			21			
10	HQPSK	25	26	19.32	19.24	19.35						
10	HQPSK	25	48	19.44	19.33	19.33						
10	HQPSK	50	0	17.32	17.49	17.31						
10	HQPSK	50	12	17.25	17.42	17.32			19	5		
10	HQPSK	50	24	17.38	17.38	17.38						
10	HQPSK	50	48	17.28	17.32	17.19						
10	HQPSK	25	12	19.28	17.54	17.11			19	5		
10	HQPSK	25	24	19.33	17.54	17.11						
10	HQPSK	50	0	17.22	17.29	17.25						
Channel												
Frequency (MHz)												
5	QPSK	1	0	22.11	22.24	23.25						
5	QPSK	1	12	22.22	22.22	22.22			24	0		
5	QPSK	1	24	22.41	22.25	22.22						
5	QPSK	12	0	21.33	21.44	21.33						
5	QPSK	12	7	21.20	21.29	21.24			23	1		
5	QPSK	12	14	21.37	21.37	21.36						
5	QPSK	12	21	21.36	21.46	21.43			23	1		
5	HQPSK	1	0	21.17	21.40	21.16						
5	HQPSK	1	12	21.30	21.58	21.30						
5	HQPSK	1	24	21.35	21.66	21.34						
5	HQPSK	12	0	20.13	20.40	20.27						
5	HQPSK	12	7	20.14	20.29	20.29			22			
5	HQPSK	12	14	20.43	20.35	20.35						
5	HQPSK	12	21	20.35	20.35	20.35						
5	HQPSK	25	0	20.30	20.30	20.37						
5	HQPSK	25	7	20.49	20.27	20.29			22			
5	HQPSK	25	14	20.48	20.36	20.31						
5	HQPSK	25	21	20.50	20.45	20.42			22			
5	HQPSK	50	0	19.35	19.35	19.35						
5	HQPSK	50	7	19.15	19.35	19.38			21	3		
5	HQPSK	12	13	19.32	19.31	19.35						
5	HQPSK	12	28	19.38	19.42	19.35						
5	HQPSK	12	42	19.25	17.38	17.37						
5	HQPSK	1	12	17.18	17.47	17.23						
5	HQPSK	12	13	17.27	17.27	17.27						
5	HQPSK	12	28	17.28	17.28	17.25						
5	HQPSK	12	7	17.22	17.33	17.26						
5	HQPSK	12	14	17.31	17.31	17.31			19	5		
5	HQPSK	25	0	17.12	17.30	17.19						



Band 7_Ant 2														
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Med Ch. Freq.	Power High Ch. Freq.	Turn-up [dB]	MPR [dB]						
Channel														
Frequency [MHz]														
20	QPSK	1	0	21.57	21.60	21.60			22.5	0				
20	QPSK	1	49	21.48	21.42	21.38								
20	QPSK	59		21.58	21.52	21.38								
20	QPSK	50	0	21.57	21.58	21.4								
20	QPSK	50	24	21.55	21.42	21.33								
20	QPSK	100	0	21.45	21.49	21.3			22.5	0				
20	16QAM	1	0	21.59	21.43	21.5								
20	16QAM	1	49	21.55	21.47	21.59								
20	16QAM	1	99	21.58	21.56	21.52								
20	16QAM	50	0	21.17	21.38	21.37								
20	16QAM	50	24	21.25	21.44	21.27			22.5	0				
20	16QAM	50	50	21.35	21.54	21.4								
20	16QAM	100	0	21.52	21.54	21.37								
20	16QAM	100	0	21.21	21.38	21.36								
20	64QAM	1	49	21.38	21.5	21.43								
20	64QAM	1	99	21.52	21.54	21.53			22.5	0				
20	64QAM	50	24	20.13	20.39	20.31								
20	64QAM	50	50	20.31	20.42	20.39								
20	256QAM	1	0	18.15	18.24	18.13								
20	256QAM	1	49	18.21	18.27	18.24								
20	256QAM	1	59	18.29	18.32	18.27			19.5	3				
20	256QAM	50	0	18.16	18.35	18.30								
20	256QAM	50	24	18.11	18.38	18.25								
20	256QAM	100	0	18.13	18.25	18.23								
20	256QAM	100	0	18.13	18.25	18.23								
Channel														
Frequency [MHz]														
15	QPSK	1	0	21.54	21.52	21.46			22.5	0				
15	QPSK	1	37	21.37	21.31	21.29								
15	QPSK	36	20	21.49	21.43	21.29								
15	QPSK	36	20	21.54	21.46	21.3								
15	QPSK	36	20	21.42	21.34	21.31								
15	QPSK	36	20	21.45	21.49	21.3			22.5	0				
15	16QAM	1	0	21.4	21.4	21.38								
15	16QAM	1	0	21.43	21.35	21.47								
15	16QAM	1	74	21.52	21.47	21.52								
15	16QAM	36	0	21.58	21.34	21.24								
15	16QAM	36	39	21.35	21.35	21.32			22.5	0				
15	16QAM	36	39	21.32	21.45	21.3								
15	16QAM	75	0	21.24	21.21	21.31								
15	16QAM	75	0	21.31	21.31	21.32								
15	64QAM	1	37	21.31	21.39	21.37								
15	64QAM	1	74	21.47	21.43	21.45			22.5	0				
15	64QAM	36	39	20.32	20.28	20.28								
15	64QAM	36	39	20.23	20.29	20.34								
15	256QAM	1	0	18.02	18.26	18.06								
15	256QAM	1	37	18.13	18.22	18.15			19.5	3				
15	256QAM	1	49	18.22	18.25	18.22								
15	256QAM	36	0	18.09	18.29	18.15								
15	256QAM	36	20	18.07	18.27	18.22								
15	256QAM	75	0	18.31	18.33	18.09								
15	256QAM	75	0	18.04	18.16	18.12			22.5	0				
Channel														
Frequency [MHz]														
10	QPSK	1	0	21.52	21.57	21.46			22.5	0				
10	QPSK	1	25	21.4	21.31	21.28								
10	QPSK	1	49	21.53	21.47	21.43								
10	QPSK	25	0	21.49	21.46	21.38								
10	QPSK	25	12	21.51	21.39	21.29								
10	QPSK	50	0	21.36	21.41	21.34			22.5	0				
10	16QAM	1	0	21.45	21.35	21.38								
10	16QAM	1	49	21.47	21.46	21.43								
10	16QAM	1	49	21.47	21.46	21.43								
10	16QAM	25	0	21.56	21.32	21.27								
10	16QAM	25	12	21.15	21.33	21.17			22.5	0				
10	16QAM	25	25	21.29	21.44	21.37								
10	16QAM	50	0	21.18	21.21	21.27								
10	16QAM	50	0	21.23	21.25	21.21								
10	64QAM	1	25	21.52	21.38	21.35								
10	64QAM	1	49	21.4	21.46	21.45			22.5	0				
10	64QAM	1	25	20.01	20.02	20.34								
10	64QAM	25	12	20.03	20.33	20.21								
10	64QAM	25	25	20.27	20.31	20.33								
10	256QAM	1	0	18.09	18.23	18.03								
10	256QAM	1	0	17.97	18.27	18.04			19.5	3				
10	256QAM	1	25	18.11	18.15	18.21								
10	256QAM	1	49	18.18	18.25	18.21								
10	256QAM	25	0	18.11	18.32	18.05								
10	256QAM	25	12	17.99	18.25	18.15								
10	256QAM	25	25	18.25	18.35	18.05			22.5	0				
10	256QAM	50	0	18.11	18.19	18.12								
Channel														
Frequency [MHz]														
5	QPSK	1	0	21.49	21.58	21.45			22.5	0				
5	QPSK	1	12	21.4	21.31	21.33								
5	QPSK	1	44	21.51	21.46	21.25								
5	QPSK	12	0	21.44	21.56	21.31								
5	QPSK	12	7	21.47	21.35	21.25								
5	QPSK	12	33	21.23	21.45	21.27			22.5	0				
5	QPSK	25	0	21.37	21.38	21.28								
5	16QAM	1	0	21.52	21.3	21.46								
5	16QAM	1	24	21.43	21.43	21.39								
5	16QAM	12	0	21.08	21.33	21.29			22.5	0				
5	16QAM	12	7	21.15	21.37	21.18								
5	16QAM	12	13	21.22	21.46	21.28								
5	16QAM	25	0	21.14	21.28	21.3								
5	64QAM	1	0	21.33	21.39	21.3								
5	64QAM	1	12	21.36	21.47	21.34			22.5	0				
5	64QAM	1	24	21.5	21.46	21.43								
5	64QAM	12	0	20.15	20.34	20.38								
5	64QAM	12	7	20.08	20.32	20.28								
5	64QAM	50	0	20.09	20.34	20.25								
5	256QAM	1	0	17.98	18.25	18.04			21.5	1				
5	256QAM	1	0	18.11	18.27	18.18								
5	256QAM	1	24	18.21	18.27	18.18								
5	256QAM	12	0	18.12	18.51	18.12								
5	256QAM	12	13	18.09	18.25	18.15								
5	256QAM	12	13	18.25	18.27	18.08			19.5	3				
5	256QAM	25	0	18.01	18.19	18.21								
5	256QAM	25	0	18.01	18.19	18.21								

Band 7_Ant 3									
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. Freq. 20660	Power Meds Ch. Freq. 21100	Power High Ch. Freq. 21360	Turnup (dB)	MPR (dB)	
Channel									
Frequency (MHz)									
20	QPSK	1	0	23.43	23.60	23.58			25
20	QPSK	1	49	23.41	23.57	23.52			
20	QPSK	59		23.42	23.55	23.53			
20	QPSK	50	0	22.58	22.75	22.64			24
20	QPSK	50	24	22.45	22.70	22.71			
20	QPSK	50	24	22.35	22.67	22.67			
20	QPSK	100	0	22.57	22.73	22.71			24
20	HOQM	1	0	22.58	22.59	22.58			
20	HOQM	50	0	22.58	22.59	22.58			
20	HOQM	1	99	22.76	22.97	22.81			25
20	HOQM	50	0	21.58	21.75	21.71			
20	HOQM	50	24	21.46	21.69	21.69			
20	HOQM	50	50	21.59	21.77	21.73			23
20	HOQM	100	0	21.45	21.67	21.72			
20	HOQM	100	24	21.35	21.57	21.62			
20	HOQM	1	48	21.55	21.80	21.80			23
20	HOQM	50	99	21.67	21.87	21.85			
20	HOQM	100	50	20.36	20.74	20.75			
20	HOQM	50	24	20.45	20.55	20.55			23
20	HOQM	50	24	20.54	20.76	20.67			
20	HOQM	100	50	20.52	20.69	20.67			
20	HOQM	1	8	18.36	18.65	18.65			20
20	HOQM	50	0	18.47	18.68	18.67			
20	HOQM	1	99	18.49	18.48	18.48			
20	HOQM	50	5	18.41	18.58	18.62			20
20	HOQM	50	50	18.41	18.58	18.62			
20	HOQM	50	50	18.51	18.48	18.48			
20	HOQM	100	0	18.42	18.51	18.45			20
20	HOQM	100	0	18.52	18.51	18.51			
20	HOQM	100	0	18.57	18.50	18.50			
Frequency (MHz)				2557.5	2555.0	2552.5	Turnup (dB)	MPR (dB)	
15	QPSK	1	0	23.39	23.37	23.33			25
15	QPSK	1	37	23.4	23.42	23.38			
15	QPSK	1	37	23.4	23.42	23.38			
15	QPSK	36	0	22.57	22.66	22.65			24
15	QPSK	36	20	22.31	22.49	22.52			
15	QPSK	36	20	22.32	22.41	22.42			
15	QPSK	75	0	22.5	22.58	22.58			24
15	HOQM	1	0	22.58	22.52	22.58			
15	HOQM	1	0	22.52	22.51	22.52			
15	HOQM	1	74	22.73	22.83	22.87			23
15	HOQM	36	3	21.34	21.68	21.75			
15	HOQM	36	3	21.37	21.68	21.68			
15	HOQM	36	39	21.46	21.59	21.76			23
15	HOQM	75	0	21.45	21.48	21.61			
15	HOQM	75	0	21.55	21.55	21.58			
15	HOQM	1	74	21.49	21.68	21.67			23
15	HOQM	36	20	20.31	20.55	20.57			
15	HOQM	36	20	20.54	20.76	20.75			
15	HOQM	36	39	20.51	20.52	20.54			20
15	HOQM	1	0	18.19	18.49	18.53			
15	HOQM	1	37	18.22	18.32	18.32			
15	HOQM	36	0	18.30	18.50	18.48			20
15	HOQM	36	0	18.28	18.42	18.56			
15	HOQM	36	20	18.47	18.48	18.47			
15	HOQM	75	0	18.47	18.48	18.48			20
15	HOQM	75	0	18.44	18.53	18.49			
15	HOQM	75	0	18.44	18.53	18.49			
Frequency (MHz)				2555.0	2553.0	2550.0	Turnup (dB)	MPR (dB)	
10	QPSK	1	0	23.34	23.3	23.55			25
10	QPSK	1	25	23.41	23.34	23.53			
10	QPSK	1	25	23.42	23.34	23.53			
10	QPSK	25	0	22.56	22.63	22.67			24
10	QPSK	25	12	22.39	22.48	22.65			
10	QPSK	25	12	22.35	22.48	22.65			
10	QPSK	50	0	22.39	22.68	22.65			24
10	HOQM	1	0	22.65	22.57	22.65			
10	HOQM	1	0	22.68	22.68	22.68			
10	HOQM	1	49	22.71	22.59	22.66			24
10	HOQM	25	0	21.29	21.56	21.63			
10	HOQM	25	0	21.29	21.56	21.63			
10	HOQM	25	18	21.41	21.61	21.61			23
10	HOQM	25	18	21.49	21.75	21.65			
10	HOQM	50	0	21.27	21.53	21.63			
10	HOQM	50	0	21.48	21.64	21.64			20
10	HOQM	1	25	21.42	21.71	21.71			
10	HOQM	1	49	21.62	21.84	21.84			
10	HOQM	25	0	20.36	20.67	20.74			23
10	HOQM	25	0	20.35	20.67	20.74			
10	HOQM	25	12	20.42	20.52	20.52			
10	HOQM	25	25	20.66	20.67	20.74			20
10	HOQM	25	25	20.67	20.68	20.74			
10	HOQM	25	25	20.75	20.75	20.75			
10	HOQM	1	0	18.20	18.52	18.56			20
10	HOQM	25	0	18.36	18.48	18.48			
10	HOQM	25	0	18.35	18.44	18.44			
10	HOQM	25	0	18.38	18.45	18.51			20
10	HOQM	25	12	18.20	18.50	18.54			
10	HOQM	25	12	18.24	18.51	18.51			
10	HOQM	50	0	18.28	18.53	18.29			20
10	HOQM	50	0	18.28	18.53	18.29			
10	HOQM	50	0	18.28	18.53	18.29			
Frequency (MHz)				2077.5	2100.0	2142.5	Turnup (dB)	MPR (dB)	
5	QPSK	1	0	23.39	23.33	23.43			25
5	QPSK	1	12	23.31	23.43	23.57			
5	QPSK	1	12	23.36	23.47	23.58			
5	QPSK	12	0	22.5	22.75	22.67			22
5	QPSK	12	0	22.3	22.7	22.76			
5	QPSK	12	0	22.3	22.7	22.76			
5	HOQM	1	0	22.54	22.68	22.54			24
5	HOQM	1	0	22.51	22.65	22.68			
5	HOQM	1	0	22.68	22.68	22.68			
5	HOQM	1	24	22.65	22.68	22.87			24
5	HOQM	12	0	21.38	21.69	21.67			
5	HOQM	12	0	21.28	21.67	21.67			
5	HOQM	12	18	21.42	21.73	21.65			23
5	HOQM	25	0	21.46	21.57	21.73			
5	HOQM	25	0	21.46	21.57	21.73			
5	HOQM	1	12	21.44	21.75	21.77			22
5	HOQM	1	24	21.64	21.79	21.87			
5	HOQM	1	24	21.63	21.77	21.87			
5	HOQM	12	7	20.35	20.65	20.74			20
5	HOQM	12	13	20.55	20.62	20.59			
5	HOQM	12	13	20.57	20.62	20.59			
5	HOQM	12	0	18.28	18.56	18.60			20
5	HOQM	12	0	18.30	18.42	18.58			
5	HOQM	12	0	18.31	18.42	18.58			
5	HOQM	12	0	18.24	18.47	18.56			20
5	HOQM	12	0	18.24	18.47	18.56			
5	HOQM	12	0	18.24	18.47	18.56			
5	HOQM	25	0	18.41	18.47	18.47			20
5	HOQM	25	0	18.41	18.47	18.47			
5	HOQM	25	0	18.41	18.47	18.47			



Band 66_Ant 0													
BW [MHz]	Modulation	RB Size	RB Offset	Power Low [dBm]	Power High [dBm]	Power Co. [dBm]	Power High [dBm]	Tune-up [dBm]	MPE [dB]				
Channel													
Frequency [MHz]													
150972 150972 150972													
20	QPSK	1	0	21.61	21.96	21.73				23	0		
20	QPSK	1	49	21.61	21.96	21.73							
20	QPSK	1	99	21.73	21.78	21.71							
20	QPSK	50	0	20.98	20.98	20.98							
20	QPSK	50	24	20.75	20.89	20.76							
20	QPSK	100	0	20.77	20.88	20.73				22	1		
20	16QAM	1	0	20.68	20.21	21.13							
20	16QAM	1	49	20.67	20.21	21.02							
20	16QAM	50	0	19.73	19.86	19.77							
20	16QAM	50	24	19.62	19.90	19.83							
20	16QAM	50	50	19.77	19.91	19.73				21	2		
20	16QAM	100	0	19.64	19.86	19.85							
20	64QAM	1	49	19.94	20.23	20							
20	64QAM	1	99	19.8	19.83	19.77							
20	64QAM	50	0	18.7	18.81	18.77							
20	64QAM	50	24	18.64	18.85	18.67				20	3		
20	64QAM	50	50	18.68	18.87	18.85							
20	256QAM	1	0	18.59	17.93	18.57							
20	256QAM	1	49	17.83	17.16	17.08							
20	256QAM	1	99	17.01	17.03	17.08							
20	256QAM	50	0	18.83	18.52	18.68				18	5		
20	256QAM	50	24	18.84	18.96	18.75							
20	256QAM	50	50	18.84	18.99	18.82							
Channel													
150407 150407 150407													
15	QPSK	1	0	21.5	21.83	21.63				23	0		
15	QPSK	1	37	21.57	21.89	21.69							
15	QPSK	1	74	21.62	21.72	21.72							
15	QPSK	36	0	20.79	20.82	20.82							
15	QPSK	36	20	20.71	20.88	20.89							
15	QPSK	36	39	20.57	20.83	20.75				22	1		
15	QPSK	75	0	20.66	20.83	20.73							
15	QPSK	75	0	20.66	20.83	20.73							
15	16QAM	1	0	20.81	21.09	21.11							
15	16QAM	1	37	20.81	21.09	21.11							
15	16QAM	1	74	21	21.11	20.96				21	2		
15	16QAM	36	0	19.67	19.77	19.76							
15	16QAM	36	20	19.62	19.86	19.78							
15	16QAM	36	39	19.65	19.72	19.64							
15	16QAM	75	0	19.65	19.72	19.64							
15	64QAM	1	201	19.73	20.24	19.87				21	2		
15	64QAM	1	74	19.8	19.71	19.68							
15	64QAM	36	0	18.63	18.71	18.67							
15	64QAM	36	20	18.61	18.77	18.69							
15	64QAM	36	39	18.56	18.77	18.56							
15	256QAM	1	0	17.4	17.19	16.86				18	5		
15	256QAM	1	37	16.96	17.12	17.15							
15	256QAM	1	74	16.98	17.14	17.02							
15	256QAM	36	0	16.86	16.91	16.83							
15	256QAM	36	20	16.83	16.88	16.76							
15	256QAM	36	39	16.81	16.98	16.82				18	5		
15	256QAM	75	0	16.8	16.82	16.76							
Channel													
150002 150002 150002													
10	QPSK	1	0	21.55	21.83	21.66				23	0		
10	QPSK	1	25	21.51	21.79	21.74							
10	QPSK	1	50	21.52	21.77	21.65							
10	QPSK	25	0	20.83	20.84	20.77							
10	QPSK	25	12	20.77	20.8	20.82							
10	QPSK	25	25	20.79	20.81	20.76				22	1		
10	QPSK	50	0	20.69	20.89	20.87							
10	16QAM	1	0	20.87	21.09	21.15							
10	16QAM	1	25	20.82	21.01	21.02							
10	16QAM	1	49	21.02	21.08	20.97							
10	16QAM	25	0	19.73	19.86	19.77				21	2		
10	16QAM	25	12	19.62	19.88	19.81							
10	16QAM	25	25	19.72	19.81	19.76							
10	16QAM	50	0	19.53	19.76	19.53							
10	16QAM	50	12	19.65	20.12	19.88							
10	64QAM	1	25	19.76	20.26	19.97				21	2		
10	64QAM	1	49	19.8	19.84	19.73							
10	64QAM	25	0	18.67	18.75	18.75							
10	64QAM	25	12	18.52	18.72	18.69							
10	64QAM	25	25	18.68	18.81	18.65							
10	256QAM	1	0	17.01	16.95	16.94				18	5		
10	256QAM	1	25	16.84	17.02	16.97							
10	256QAM	1	49	17.01	17.12	16.99							
10	256QAM	25	0	16.86	16.96	16.84							
10	256QAM	25	12	16.74	16.94	16.84							
10	256QAM	25	25	16.82	16.98	16.82				18	5		
10	256QAM	50	0	16.83	16.92	16.89							
Channel													
150999 150999 150999													
5	QPSK	1	0	21.56	21.87	21.65				23	0		
5	QPSK	1	12	21.52	21.81	21.82							
5	QPSK	1	24	21.62	21.75	21.7							
5	QPSK	12	0	20.79	20.83	20.8							
5	QPSK	12	7	20.63	20.88	20.74							
5	QPSK	12	7	20.63	20.88	20.74				22	1		
5	QPSK	25	0	20.65	20.85	20.82							
5	QPSK	25	0	20.65	20.85	20.82							
5	16QAM	1	0	20.87	21.12	21.07							
5	16QAM	1	12	20.86	20.89	20.95							
5	16QAM	1	24	20.96	21.1	20.95				21	2		
5	16QAM	12	0	19.74	19.83	19.73							
5	16QAM	12	7	19.67	19.82	19.74							
5	16QAM	12	13	19.74	19.81	19.74							
5	16QAM	25	0	19.57	19.82	19.54							
5	64QAM	1	12	19.74	20.13	19.97				21	2		
5	64QAM	1	24	19.67	19.7	19.67							
5	64QAM	12	7	18.53	18.83	18.68							
5	64QAM	12	13	18.68	18.76	18.75							
5	64QAM	25	0	18.65	18.77	18.69							
5	256QAM	1	0	16.89	17.12	16.93				18	5		
5	256QAM	1	12	17.02	17.13	17.03							
5	256QAM	1	24	17.07	17.18	17.04							
5	256QAM	12	0	16.73	16.92	16.86							
5	256QAM	12	13	16.74	17.02	16.96							
5	256QAM	25	0	16.77	16.92	16.79				18	5		
Channel													
171013 171013 171013													
3	QPSK	1	0	21.48	21.86	21.64				23	0		
3	QPSK	1	9	21.59	21.86	21.84							
3	QPSK	8	0	20.79	20.91	20.89							
3	QPSK	8	4	20.7	20.85	20.77							
3	QPSK	8	4	20.78	20.89	20.87							
3	QPSK	15	0	20.75	20.92	20.87				22	1		
3	QPSK	15	0	20.76	21.17	21.07							
3	16QAM	1	0	20.8	20.9	20.85							
3	16QAM	1	14	20.51	21.09	20.94							
3	16QAM	8	0	19.8	19.97	19.74							
3	16QAM	8	4	19.83	19.97	19.73				21	2		
3	16QAM	15	0	19.67	19.9	19.71							
3	64QAM	1	0	18.63	18.8	18.67							
3	64QAM	8	0	18.67	18.77	18.67							
3	64QAM	8	4	18.57	18.81	18.67							
3	256QAM	1	0	17.04	16.96	16.93				18	5		
3	256QAM	1	9	17.15	17.26	17.12							
3	256QAM	14	0	17.06	17.04	17.05							
3	256QAM	8	0	16.93	16.84	16.85							
3	256QAM	8	4	16.83	16.96	16.81							
3	256QAM	15	0	16.88	16.93	16.76				18	5		
Channel													
Frequency [MHz]													
170570 170570 170570													
1.4	QPSK	1	0	21.61	21.86	21.71				23	0		
1.4	QPSK	1	24	21.63	21.87	21.73							
1.4	QPSK	1	48	21.64	21.87	21.71							
1.4	QPSK	3	0	21.73	21.88	21.8							
1.4	QPSK	3	24	21.73	21.88	21.8							
1.4	QPSK	3	48	21.85	21.91	21.87				22	1		
1.4	QPSK	3	72	21.85	21.91	21.87							
1.4	QPSK	6	0	20.73	20.87	20.8							
1.4	QPSK	6	24	20.73	20.87	20.8							
1.4	QPSK	6	48	20.73	20.87	20.8							
1.4	16QAM	1	0	20.95	20.84	20.89				21	2		
1.4	16QAM	1	24	21.02	21.08	20.91							
1.4	16QAM	1	48	21.02	21.08	20.91							
1.4	16QAM	3	0	20.58	20.89	20.83							
1.4	16QAM	3	24	20.67	20.83	20.87							
1.4	16QAM	3	48	20.68	20.86	20.87				21	2		
1.4	16QAM	6	0	19.79	20.22	19.99							
1.4	16QAM	6	24	19.79	20.22	19.99							
1.4	16QAM	6	48	19.79	20.22	19.99							
1.4	16QAM	12	0	19.54	19.86	19.83							
1.4	16QAM	12	24	19.54	19.86	19.83				20	3		
1.4	16QAM	12	48	19.54	19.86	19.83							
1.4	64QAM	1	0	18.61	18.84	18.85							
1.4	64QAM	1	24	18.69	18.91	18.81							
1.4	64QAM	1	48	18.69	18.91	18.81							
1.4	256QAM	1	0	17.06	17.19	17.07				18	5		
1.4	256QAM	1	24	17.17	17.24	17.07							
1.4	256QAM	1	48	17.17</									

Band 38_Ant 0												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Max Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency [MHz]												
20	QPSK	1	0	22.76	22.88	22.97	24	0				
20	QPSK	1	49	22.82	22.82	22.96						
20	QPSK	1	99	22.80	22.88	22.93						
20	QPSK	50	24	21.71	21.79	21.79						
20	QPSK	50	24	21.82	21.74	21.68						
20	QPSK	100	0	21.80	21.74	21.77	23	1				
20	QPSK	100	0	21.82	21.85	21.82						
20	16QAM	1	0	21.70	21.82	21.79						
20	16QAM	1	49	21.75	22.02	21.75						
20	16QAM	1	99	21.71	21.82	21.78						
20	16QAM	50	0	20.85	20.88	20.69	22	2				
20	16QAM	50	24	20.81	20.76	20.77						
20	16QAM	50	50	20.85	20.83	20.77						
20	16QAM	100	0	20.87	20.80	20.76						
20	16QAM	100	0	20.85	20.72	20.69						
20	64QAM	1	49	20.81	20.69	20.59	22	2				
20	64QAM	1	99	20.86	20.73	20.69						
20	64QAM	50	0	19.80	19.73	19.71						
20	64QAM	50	24	19.80	19.77	19.77						
20	64QAM	100	0	19.58	19.80	19.62						
20	256QAM	1	0	17.81	17.57	17.50	19	5				
20	256QAM	1	49	17.86	17.79	17.75						
20	256QAM	1	99	17.88	17.88	17.47						
20	256QAM	50	0	17.83	17.74	17.73						
20	256QAM	50	24	17.78	17.76	17.70						
20	256QAM	50	50	17.72	17.84	17.60	19	5				
20	256QAM	100	0	17.81	17.88	17.82						
Channel												
Frequency [MHz]												
15	QPSK	1	0	22.73	22.87	22.93	24	0				
15	QPSK	1	49	22.76	22.85	22.87						
15	QPSK	1	74	22.83	22.43	22.49						
15	QPSK	36	20	21.88	21.77	21.68						
15	QPSK	36	20	21.82	21.48	21.68						
15	QPSK	36	20	21.82	21.69	21.66	23	1				
15	QPSK	36	20	21.86	21.82	21.63						
15	16QAM	1	0	21.86	21.97	21.87						
15	16QAM	1	37	21.88	21.82	21.57						
15	16QAM	1	74	21.91	21.73	21.75						
15	16QAM	36	0	20.77	20.54	20.64	22	2				
15	16QAM	36	0	20.81	20.59	20.77						
15	16QAM	36	20	20.91	20.59	20.62						
15	16QAM	75	0	20.82	20.58	20.60						
15	64QAM	1	20	19.43	19.34	19.35						
15	64QAM	1	37	20.81	20.42	20.52	22	2				
15	64QAM	1	74	20.78	20.55	20.63						
15	64QAM	36	0	19.35	19.30	19.44						
15	64QAM	36	20	19.82	19.62	19.64						
15	64QAM	36	20	19.70	19.83	19.74						
15	256QAM	1	0	17.75	17.67	17.52	19	5				
15	256QAM	1	49	17.43	17.57	17.52						
15	256QAM	1	74	17.44	17.40	17.30						
15	256QAM	36	0	17.71	17.74	17.54						
15	256QAM	36	20	17.78	17.81	17.66						
15	256QAM	36	20	17.74	17.83	17.53	19	5				
15	256QAM	75	0	17.86	17.69	17.47						
Channel												
Frequency [MHz]												
10	QPSK	1	0	22.75	22.87	22.93	24	0				
10	QPSK	1	49	22.82	22.88	22.97						
10	QPSK	1	49	22.84	22.44	22.52						
10	QPSK	25	0	21.72	21.75	21.67						
10	QPSK	25	12	21.86	21.48	21.68						
10	QPSK	25	25	21.76	21.84	21.72	23	1				
10	QPSK	25	25	21.80	21.82	21.63						
10	16QAM	1	0	21.76	21.85	21.68						
10	16QAM	1	25	21.89	21.59	21.88						
10	16QAM	1	49	21.81	21.80	21.75						
10	16QAM	25	0	20.87	20.87	20.70	22	2				
10	16QAM	25	12	20.74	20.88	20.66						
10	16QAM	25	25	20.88	20.83	20.69						
10	16QAM	50	0	20.81	20.88	20.68						
10	64QAM	1	0	20.89	20.84	20.34						
10	64QAM	1	25	20.87	20.39	20.52	22	2				
10	64QAM	1	49	20.75	20.50	20.61						
10	64QAM	25	0	19.76	19.43	19.74						
10	64QAM	25	12	19.73	19.53	19.54						
10	64QAM	25	25	19.71	19.54	19.63						
10	256QAM	1	0	17.82	17.67	17.50	19	5				
10	256QAM	1	25	17.41	17.48	17.50						
10	256QAM	1	49	17.53	17.41	17.38						
10	256QAM	25	0	17.88	17.82	17.58						
10	256QAM	25	12	17.74	17.81	17.66						
10	256QAM	25	25	17.86	17.79	17.62	19	5				
10	256QAM	50	0	17.46	17.65	17.59						
Channel												
Frequency [MHz]												
5	QPSK	1	0	22.77	22.89	22.92	24	0				
5	QPSK	1	0	22.84	22.71	22.54						
5	QPSK	1	24	22.48	22.51	22.48						
5	QPSK	12	0	21.63	21.73	21.68						
5	QPSK	12	12	21.80	21.49	21.68						
5	QPSK	12	13	21.70	21.62	21.62	23	1				
5	QPSK	25	0	21.81	21.75	21.55						
5	16QAM	1	0	21.88	21.84	21.58						
5	16QAM	1	12	21.93	21.52	21.89						
5	16QAM	1	24	21.91	21.72	21.73						
5	16QAM	12	0	20.74	20.59	20.62	22	2				
5	16QAM	12	7	20.89	20.85	20.66						
5	16QAM	12	13	20.83	20.56	20.70						
5	16QAM	25	0	20.73	20.80	20.59						
5	64QAM	1	0	20.83	20.50	20.47						
5	64QAM	1	12	20.81	20.40	20.54	22	2				
5	64QAM	1	24	20.70	20.85	20.87						
5	64QAM	12	0	19.70	19.43	19.65						
5	64QAM	12	7	19.83	19.86	19.65						
5	64QAM	25	0	19.73	19.54	19.68						
5	256QAM	1	0	17.42	17.54	17.50	19	5				
5	256QAM	1	12	17.44	17.46	17.54						
5	256QAM	1	24	17.54	17.53	17.50						
5	256QAM	12	0	17.59	17.82	17.54						
5	256QAM	12	7	17.75	17.71	17.70						
5	256QAM	12	13	17.64	17.73	17.63	19	5				
5	256QAM	25	0	17.38	17.69	17.59						

Band 38_Ant 1												
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Max Ch. / Freq.	Power High Ch. / Freq.	Turn-up limit (dBm)	MPR (dB)				
Channel												
Frequency [MHz]				31860	36000	36500						
20	QPSK	1	0	23.33	23.35	23.18	26	0				
20	QPSK	1	49	23.24	23.20	23.29						
20	QPSK	1	99	23.00	23.13	23.26						
20	QPSK	86	0	22.41	22.45	22.32						
20	QPSK	100	24	22.34	22.26	22.27						
20	QPSK	100	50	22.45	22.21	22.21	24	1				
20	QPSK	100	50	22.51	22.35	22.30						
20	16QAM	1	0	22.60	22.22	22.43						
20	16QAM	1	49	22.62	22.37	22.34						
20	16QAM	1	99	22.55	22.69	22.37						
20	16QAM	50	0	21.34	21.21	21.26						
20	16QAM	50	24	21.25	21.33	21.23	23	2				
20	16QAM	50	50	21.43	21.33	21.42						
20	16QAM	50	75	21.51	21.35	21.50						
20	16QAM	1	0	21.61	21.35	21.40						
20	16QAM	1	49	21.59	21.30	21.56						
20	16QAM	1	99	21.51	21.37	21.56	23	2				
20	16QAM	50	0	20.33	20.44	20.58						
20	16QAM	50	24	20.65	20.37	20.81						
20	16QAM	50	50	20.69	20.38	20.68						
20	16QAM	100	0	20.69	20.42	20.55						
20	16QAM	100	50	20.65	20.26	20.81	22	3				
20	16QAM	100	50	20.69	20.38	20.68						
20	256QAM	1	0	18.26	18.26	18.26						
20	256QAM	1	49	18.24	18.31	18.18						
20	256QAM	1	99	18.26	18.26	18.26						
20	256QAM	50	24	18.26	18.47	18.27	20	5				
20	256QAM	50	50	18.32	18.52	18.45						
20	256QAM	50	75	18.18	18.37	18.18						
Channel												
Frequency [MHz]				31820	36000	36175				Turn-up limit (dBm)	MPR (dB)	
Frequency [MHz]				23.23	23.30	23.23						
15	QPSK	1	0	23.31	23.32	23.15	26	0				
15	QPSK	1	47	23.24	23.06	23.18						
15	QPSK	1	95	23.00	23.13	23.26						
15	QPSK	36	0	22.40	22.44	22.32						
15	QPSK	36	20	22.34	22.13	22.25						
15	QPSK	36	20	22.38	22.14	22.23	24	1				
15	16QAM	1	0	22.20	22.22	22.30						
15	16QAM	1	47	22.45	22.27	22.28						
15	16QAM	1	74	22.48	22.55	22.31						
15	16QAM	25	0	21.23	21.18	21.21						
15	16QAM	25	0	21.33	21.28	21.37	23	2				
15	16QAM	25	25	21.29	21.32	21.36						
15	16QAM	25	50	21.43	21.33	21.48						
15	16QAM	1	0	21.44	21.31	21.37						
15	16QAM	1	37	21.50	21.16	21.34						
15	16QAM	1	74	21.52	21.32	21.53	23	2				
15	16QAM	36	0	20.39	20.31	20.63						
15	16QAM	36	20	20.52	20.36	20.38						
15	16QAM	36	20	20.59	20.38	20.48						
15	16QAM	75	0	20.55	20.41	20.48						
15	256QAM	1	0	18.27	18.24	18.24	20	5				
15	256QAM	1	47	18.09	18.24	18.22						
15	256QAM	1	74	18.17	18.21	18.26						
15	256QAM	50	24	18.26	18.46	18.26						
15	256QAM	50	25	18.13	18.40	18.15						
15	256QAM	50	50	18.24	18.48	18.33	20	5				
15	256QAM	50	75	18.08	18.39	18.18						
Channel												
Frequency [MHz]				31800	36000	36500				Turn-up limit (dBm)	MPR (dB)	
Frequency [MHz]				23.31	23.32	23.15						
10	QPSK	1	25	23.17	23.07	23.26	26	0				
10	QPSK	1	48	23.10	23.05	23.15						
10	QPSK	25	0	22.36	22.38	22.21						
10	QPSK	25	12	22.28	22.16	22.14						
10	QPSK	25	12	22.33	22.14	22.25						
10	QPSK	50	0	22.32	22.24	22.25	24	1				
10	16QAM	1	0	22.60	22.22	22.37						
10	16QAM	1	25	22.62	22.37	22.28						
10	16QAM	1	49	22.58	22.57	22.23						
10	16QAM	25	0	21.32	21.21	21.31						
10	16QAM	25	0	21.42	21.32	21.33	23	2				
10	16QAM	25	25	21.40	21.35	21.33						
10	16QAM	1	0	21.38	21.13	21.24						
10	16QAM	1	0	21.43	21.34	21.37						
10	16QAM	1	25	21.52	21.20	21.42						
10	16QAM	1	49	21.43	21.27	21.43	23	2				
10	16QAM	25	0	20.62	20.37	20.45						
10	16QAM	25	12	20.43	20.33	20.41						
10	16QAM	25	12	20.54	20.36	20.47						
10	16QAM	50	0	20.67	20.36	20.47						
10	256QAM	1	0	18.27	18.24	18.24	20	5				
10	256QAM	1	25	18.22	18.32	18.30						
10	256QAM	1	49	18.20	18.26	18.12						
10	256QAM	25	0	18.15	18.26	18.26						
10	256QAM	25	12	18.26	18.47	18.25						
10	256QAM	25	25	18.26	18.49	18.34	20	5				
10	256QAM	25	50	18.18	18.24	18.18						
Channel												
Frequency [MHz]				31775	36000	36250				Turn-up limit (dBm)	MPR (dB)	
Frequency [MHz]				23.23	23.30	23.23						
5	QPSK	1	0	23.31	23.32	23.15	26	0				
5	QPSK	1	12	23.13	23.07	23.26						
5	QPSK	12	0	22.35	22.39	22.24						
5	QPSK	12	7	22.26	22.10	22.21						
5	QPSK	12	7	22.36	22.15	22.23						
5	QPSK	25	0	22.34	22.26	22.27	24	1				
5	16QAM	1	0	22.41	22.00	22.29						
5	16QAM	1	25	22.68	22.29	22.24						
5	16QAM	1	24	22.54	22.56	22.27						
5	16QAM	12	0	21.20	21.09	21.16						
5	16QAM	12	0	21.31	21.11	21.23	23	2				
5	16QAM	12	13	21.34	21.21	21.40						
5	16QAM	1	0	21.33	21.13	21.18						
5	16QAM	1	0	21.45	21.25	21.40						
5	16QAM	12	0	20.41	20.39	20.49						
5	16QAM	12	0	20.50	20.36	20.49	22	3				
5	16QAM	12	0	20.59	20.34	20.49						
5	16QAM	25	0	20.66	20.41	20.63						
5	256QAM	1	0	18.13	18.26	18.26						
5	256QAM	1	12	18.20	18.32	18.10						
5	256QAM	1	24	18.24	18.22	18.33	20	5				
5	256QAM	12	0	18.07	18.27	18.42						
5	256QAM	12	7	18.23	18.34	18.22						
5	256QAM	12	13	18.29	18.38	18.37						
5	256QAM	12	13	18.18	18.18	18.18						



Band 38_Ant 3									
RW (MHz)	Modulation	RB Size	RB Offset	Power Ch / Freqs	Power Low Ch / Freqs	Power Max Ch / Freqs	Time-up Int (dBm)	MPE (dB)	
Channel									
Frequency (MHz)				37860	38000	38160			
20	QPSK	1	0	24.51	24.50	24.50	25.7	0	
20	QPSK	1	49	24.48	24.44	24.47			
20	QPSK	1	99	24.47	24.43	24.54			
20	QPSK	50	0	23.68	23.76	23.71			
20	QPSK	50	24	23.60	23.70	23.68			
20	QPSK	50	24	23.60	23.70	23.68	24.7	1	
20	QPSK	100	50	23.56	23.74	23.66			
20	16QAM	1	0	23.59	23.64	23.69			
20	16QAM	1	49	23.62	23.70	23.75			
20	16QAM	1	99	23.73	23.71	23.69			
20	16QAM	50	0	22.59	22.52	22.74	23.7	2	
20	16QAM	50	24	22.56	22.68	22.72			
20	16QAM	50	50	22.70	22.72	22.88			
20	16QAM	100	0	22.54	22.55	22.61			
20	16QAM	100	0	22.54	22.55	22.62			
20	16QAM	1	49	22.51	22.69	22.52	23.7	2	
20	16QAM	1	99	22.49	22.57	22.55			
20	16QAM	50	0	21.80	21.55	21.85			
20	16QAM	50	24	21.69	21.61	21.85			
20	16QAM	100	0	21.61	21.65	21.84			
20	256QAM	1	0	19.48	19.40	19.56	20.7	5	
20	256QAM	1	49	19.52	19.50	19.53			
20	256QAM	1	99	19.68	19.59	19.52			
20	256QAM	50	0	19.54	19.52	19.51			
20	256QAM	50	24	19.57	19.52	19.56			
20	256QAM	50	50	19.58	19.51	19.47	20.7	5	
20	256QAM	100	0	19.46	19.43	19.53			
20	256QAM	100	0	19.45	19.43	19.53			
20	256QAM	100	0	19.45	19.43	19.53			
20	256QAM	100	0	19.45	19.43	19.53			
Channel									
Frequency (MHz)				37860	38000	38160	Time-up Int (dBm)	MPE (dB)	
15	QPSK	1	0	24.46	24.43	24.44	25.7	0	
15	QPSK	1	37	24.52	24.43	24.46			
15	QPSK	1	74	24.58	24.44	24.44			
15	QPSK	36	20	23.66	23.70	23.61			
15	QPSK	36	20	23.72	23.72	23.69			
15	QPSK	75	0	23.68	23.71	23.75	24.7	1	
15	16QAM	1	0	23.64	23.67	23.78			
15	16QAM	1	37	23.72	23.72	23.68			
15	16QAM	1	74	23.82	23.71	23.81			
15	16QAM	36	0	22.52	22.51	22.65			
15	16QAM	36	20	22.56	22.56	22.71	23.7	2	
15	16QAM	36	20	22.65	22.76	22.68			
15	16QAM	75	0	22.54	22.55	22.58			
15	16QAM	1	37	22.57	22.67	22.51			
15	16QAM	1	74	22.59	22.55	22.61			
15	16QAM	36	0	21.63	21.62	21.79	22.7	3	
15	16QAM	36	20	21.68	21.68	21.79			
15	16QAM	36	20	21.74	21.74	21.72			
15	16QAM	75	0	21.65	21.65	21.65			
15	16QAM	75	0	21.65	21.65	21.65			
15	256QAM	1	0	19.48	19.50	19.53	20.7	5	
15	256QAM	1	37	19.48	19.50	19.51			
15	256QAM	1	74	19.58	19.59	19.51			
15	256QAM	36	0	18.50	19.37	19.24			
15	256QAM	36	20	18.50	19.36	19.25			
15	256QAM	36	20	18.50	19.35	19.25	20.7	5	
15	256QAM	36	20	18.50	19.35	19.25			
15	256QAM	75	0	19.46	19.48	19.56			
15	256QAM	75	0	19.46	19.48	19.56			
15	256QAM	75	0	19.46	19.48	19.56			
15	256QAM	75	0	19.46	19.48	19.56			
Channel									
Frequency (MHz)				37860	38000	38160	Time-up Int (dBm)	MPE (dB)	
10	QPSK	1	0	24.42	24.47	24.41	25.7	0	
10	QPSK	1	25	24.52	24.44	24.53			
10	QPSK	1	49	24.55	24.49	24.46			
10	QPSK	25	0	23.52	23.68	23.69			
10	QPSK	25	12	23.62	23.62	23.67			
10	QPSK	25	25	23.72	23.60	23.70	24.7	1	
10	QPSK	25	25	23.69	23.68	23.67			
10	QPSK	50	0	23.60	23.75	23.67			
10	16QAM	1	0	23.61	23.69	23.70			
10	16QAM	1	25	23.75	23.73	23.78			
10	16QAM	1	49	23.72	23.83	23.71	24.7	1	
10	16QAM	25	0	22.59	22.58	22.65			
10	16QAM	25	12	22.65	22.56	22.72			
10	16QAM	25	24	22.65	22.73	22.63			
10	16QAM	50	0	22.58	22.49	22.55			
10	16QAM	1	0	22.50	22.52	22.58	23.7	2	
10	16QAM	1	25	22.57	22.64	22.51			
10	16QAM	1	49	22.67	22.55	22.63			
10	16QAM	25	0	21.60	21.60	21.63			
10	16QAM	25	12	21.60	21.71	21.71			
10	16QAM	25	25	21.78	21.65	21.74	23.7	2	
10	16QAM	50	0	21.57	21.68	21.56			
10	256QAM	1	0	19.54	19.44	19.48			
10	256QAM	1	25	19.51	19.53	19.51			
10	256QAM	1	49	19.66	19.52	19.51			
10	256QAM	25	0	19.51	19.52	19.52	20.7	5	
10	256QAM	25	12	19.46	19.62	19.56			
10	256QAM	25	25	19.64	19.61	19.59			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	19.59	19.50	19.48			
10	256QAM	50	0	1					

Band 41_Ant 2												
RW [MHz]	Modulation	RB Size	RB Offset	Power Low MHz Ch / Freq	Power High MHz Ch / Freq	Power Low MHz Ch / Freq	Power High MHz Ch / Freq	Power Low MHz Ch / Freq	Power High MHz Ch / Freq	Turn-up time (dBm)	MFR (dB)	
Channel												
Frequency (MHz)				39750	40188	40600	41005	41460	41850			
				24.43	24.47	24.52	24.57	24.62	24.67			
20	QPSK	1	0	24.43	24.47	24.52	24.57	24.62	24.67			
20	QPSK	1	49	24.48	24.51	24.58	24.49	24.8	24.59	25.7	0	
20	QPSK	1	99	24.4	24.51	24.57	24.44	24.54	24.63			
20	QPSK	50	0	23.69	23.61	23.77	23.55	23.67	23.89			
20	QPSK	50	24	23.54	23.67	23.69	23.56	23.6	23.81	24.7	1	
20	QPSK	100	0	23.42	23.45	23.62	23.58	23.54	23.62			
20	QPSK	100	9	23.42	23.45	23.66	23.58	23.54	23.67			
20	16QAM	1	0	23.46	23.38	23.53	23.42	23.47	23.61	24.7	1	
20	16QAM	1	49	23.38	23.52	23.38	23.5	23.41	23.61			
20	16QAM	1	99	23.42	23.72	23.39	23.37	23.37	23.57			
20	16QAM	50	0	22.48	22.63	22.45	22.47	22.54	22.64			
20	16QAM	50	24	22.48	22.67	22.48	22.56	22.55	22.64	23.7	2	
20	16QAM	100	0	22.59	22.66	22.54	22.61	22.57	22.64			
20	16QAM	100	9	22.49	22.63	22.58	22.43	22.44	22.64			
20	16QAM	1	49	22.24	22.42	22.3	22.34	22.33	22.42	23.7	2	
20	16QAM	1	99	22.28	22.59	22.34	22.27	22.24	22.76			
20	16QAM	50	0	21.58	21.65	21.49	21.49	21.55	21.65			
20	16QAM	50	24	21.43	21.68	21.39	21.41	21.45	21.64	22.7	3	
20	16QAM	100	0	21.42	21.55	21.52	21.39	21.54	21.64			
20	256QAM	1	0	19.71	19.60	19.53	19.43	19.33	19.43	20.7	5	
20	256QAM	1	49	19.71	19.63	19.43	19.37	19.41	19.43			
20	256QAM	1	99	19.81	19.63	19.49	19.32	19.32	19.43			
20	256QAM	50	0	19.77	19.59	19.49	19.29	19.33	19.43			
20	256QAM	50	24	19.79	19.58	19.41	19.43	19.42	19.43	20.7	5	
20	256QAM	50	50	19.71	19.51	19.47	19.35	19.39	19.43			
20	256QAM	100	0	19.75	19.59	19.52	19.41	19.41	19.43			
Channel												
Frequency (MHz)				39750	40188	40600	41005	41460	41850	Turn-up time (dBm)	MFR (dB)	
				25015	25418	25931	26378	26825	27265			
15	QPSK	1	0	24.43	24.47	24.52	24.57	24.62	24.67			
15	QPSK	1	25	24.37	24.44	24.55	24.55	24.65	24.65	25.70	0	
15	QPSK	1	49	24.38	24.47	24.48	24.44	24.63	24.65			
15	QPSK	25	0	23.55	23.47	23.77	23.62	23.67	23.74			
15	QPSK	25	12	23.46	23.63	23.63	23.58	23.64	23.75	24.7	1	
15	QPSK	25	25	23.39	23.38	23.62	23.55	23.54	23.74			
15	QPSK	50	0	23.46	23.57	23.46	23.46	23.57	23.74	24.7	1	
15	16QAM	1	0	23.47	23.3	23.46	23.43	23.52	23.65			
15	16QAM	1	25	23.38	23.44	23.27	23.43	23.31	23.75	24.7	1	
15	16QAM	1	49	23.3	23.48	23.29	23.3	23.48	23.75			
15	16QAM	25	0	22.4	22.51	22.34	22.54	22.67	22.76	23.7	2	
15	16QAM	25	12	22.52	22.53	22.44	22.48	22.55	22.71			
15	16QAM	25	25	22.49	22.62	22.49	22.5	22.62	22.76			
15	16QAM	50	0	22.41	22.58	22.44	22.46	22.44	22.76	23.7	2	
15	16QAM	1	0	22.28	22.36	22.24	22.32	22.26	22.76			
15	16QAM	1	25	22.13	22.29	22.28	22.29	22.3	22.76	23.7	2	
15	16QAM	1	49	22.27	22.55	22.23	22.34	22.29	22.76			
15	16QAM	25	0	21.73	21.69	21.59	21.59	21.54	21.77	22.7	3	
15	16QAM	25	12	21.37	21.59	21.37	21.45	21.45	21.81			
15	16QAM	25	25	21.43	21.67	21.44	21.55	21.46	21.76	20.7	5	
15	16QAM	50	0	21.4	21.51	21.46	21.46	21.67	21.69			
15	256QAM	1	0	19.71	19.54	19.47	19.35	19.41	19.41	20.7	5	
15	256QAM	1	25	19.60	19.56	19.53	19.33	19.47	19.47			
15	256QAM	1	49	19.73	19.54	19.23	19.37	19.47	19.47			
15	256QAM	25	0	19.71	19.52	19.34	19.32	19.35	19.76	20.7	5	
15	256QAM	25	12	19.73	19.46	19.37	19.46	19.39	19.74			
15	256QAM	25	25	19.65	19.46	19.36	19.37	19.42	19.71			
15	256QAM	50	0	19.69	19.42	19.51	19.49	19.34	19.63			
Channel												
Frequency (MHz)				39675	40146	40550	40985	41465	41945	Turn-up time (dBm)	MFR (dB)	
				24.47	24.66	24.6	24.54	24.64	24.64			
5	QPSK	1	0	24.47	24.66 <td>24.6<td>24.54<td>24.64<td>24.64</td><td>25.70</td><td>0</td><td></td></td></td></td>	24.6 <td>24.54<td>24.64<td>24.64</td><td>25.70</td><td>0</td><td></td></td></td>	24.54 <td>24.64<td>24.64</td><td>25.70</td><td>0</td><td></td></td>	24.64 <td>24.64</td> <td>25.70</td> <td>0</td> <td></td>	24.64	25.70	0	
5	QPSK	1	12	24.39	24.51	24.46	24.51	24.62	24.62			
5	QPSK	1	24	24.3	24.39	24.56	24.55	24.65	24.65			
5	QPSK	12	0	23.64	23.52	23.64	23.57	23.68	23.75	24.7	1	
5	QPSK	12	7	23.62	23.51	23.61	23.55	23.62	23.75			
5	QPSK	12	13	23.39	23.4	23.56	23.49	23.51	23.76	24.7	1	
5	QPSK	25	0	23.28	23.5	23.53	23.49	23.51	23.74			
5	16QAM	1	0	23.42	23.34	23.39	23.43	23.42	23.81	24.7	1	
5	16QAM	1	12	23.37	23.54	23.33	23.42	23.42	23.79			
5	16QAM	1	24	23.4	23.71	23.37	23.44	23.37	23.76			
5	16QAM	12	7	23.37	23.51	23.42	22.44	22.59	23.76	23.7	2	
5	16QAM	12	13	23.02	23.44	23.46	23.43	23.58	23.71			
5	16QAM	25	0	22.35	22.62	22.56	22.43	22.54	22.74			
5	16QAM	1	0	22.3	22.4	22.26	22.3	22.3	22.74	23.7	2	
5	16QAM	1	12	22.24	22.35	22.19	22.25	22.3	22.74			
5	16QAM	1	24	22.14	22.45	22.25	22.31	22.36	22.77			
5	16QAM	12	0	21.28	21.55	21.39	21.51	21.6	21.76	22.7	3	
5	16QAM	12	7	21.4	21.69	21.33	21.47	21.58	21.83			
5	16QAM	12	13	21.37	21.61	21.42	21.46	21.48	21.76	22.7	3	
5	16QAM	25	0	21.37	21.44	21.44	21.43	21.52	21.73	20.7	5	
5	256QAM	1	0	19.74	19.54	19.41	19.43	19.35	19.35			
5	256QAM	1	12	19.69	19.58	19.34	19.37	19.36	19.76	20.7	5	
5	256QAM	1	24	19.76	19.54	19.41	19.43	19.35	19.35			



Reduced Power for DS14

Band 2, Ant 2										
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./F1	Power Ch./F2	Power Ch./F3	Power Ch./F4	Turn-up Time (dB)	MPE (dB)	
Channel										
Frequency (MHz)				18070	18602	19100				
20 QPSK	1	0		17.95	18.15	17.97				
20 QPSK	1	49		18.01	18.06	17.99	19.5	0		
20 QPSK	1	99		17.98	17.99	17.91				
20 QPSK	50	0		18.01	18.05	17.91	19.5	0		
20 QPSK	50	50		18.03	18.06	17.99				
20 HQAM	1	0		18.01	17.99	17.99	19.5	0		
20 HQAM	1	49		18.07	18.11	17.99				
20 HQAM	1	99		18.03	18.05	17.91				
20 HQAM	50	0		17.98	18.02	17.92	19.5	0		
20 HQAM	50	24		17.93	18.1	17.99				
20 HQAM	1	49		18.03	17.97	17.91	19.5	0		
20 HQAM	1	99		18.08	18.09	17.95				
20 HQAM	50	24		18.06	18.08	17.97	19.5	0		
20 HQAM	50	74		17.98	18.01	17.95				
20 HQAM	100	0		17.98	18.02	17.92				
20 HQAM	1	99		17.98	17.97	17.92	19.5	0		
20 HQAM	1	99		17.99	17.98	17.93				
20 HQAM	50	74		17.99	18.02	17.94				
20 HQAM	50	99		17.96	17.99	17.91	19.5	0		
20 HQAM	100	0		17.98	17.95	17.82				
20 HQAM	100	49		17.98	17.96	17.85				
20 HQAM	100	99		17.97	17.92	17.81	19.5	0		
20 HQAM	100	99		17.99	18.00	17.95				
20 HQAM	100	149		17.96	17.98	17.94	19.5	0		
20 HQAM	100	149		17.98	17.97	17.92				
20 HQAM	100	199		17.95	17.98	17.94				
20 HQAM	100	199		17.97	17.96	17.91	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.98	17.97	17.92	19.5	0		
20 HQAM	100	199		17.99	18.00	17.95				
20 HQAM	100	199		17.						



Band 5_Ant 0										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Power 20460	Power Mids 20520	Power High Ch. Power 20600	Tune-up init (dBm)	MPR (dB)		
Channel										
Frequency [MHz]										
10	QPSK	1	0	23.13	23.15	23.15				
10	QPSK	1	25	23.06	22.92	23.02	24.2	0		
10	QPSK	1	49	23.03	22.89	23.01				
10	QPSK	5	0	23.02	23.06	23.09				
10	QPSK	25	0	22.93	23.05	22.98	24.2	0		
10	QPSK	25	25	22.82	23.05	22.88				
10	QPSK	50	0	22.98	23.05	22.93				
10	16QAM	1	0	23.10	23.05	22.98				
10	16QAM	1	25	23.11	22.99	22.98	24.2	0		
10	16QAM	1	49	23.08	22.95	22.95				
10	16QAM	5	0	22.48	22.52	22.47				
10	16QAM	5	25	22.48	22.58	22.55	23.7	0.5		
10	16QAM	5	49	22.48	22.58	22.52				
10	16QAM	10	0	23.34	23.51	23.54				
10	16QAM	10	25	23.33	23.58	23.41	23.7	1.5		
10	16QAM	10	49	23.33	23.51	23.51				
10	256QAM	1	0	19.98	19.95	19.92				
10	256QAM	1	25	19.83	19.83	19.89	20.7	3.5		
10	256QAM	1	49	19.83	19.86	19.86				
10	256QAM	5	0	19.78	19.83	19.75				
10	256QAM	5	25	19.78	19.87	19.78	20.7	3.5		
10	256QAM	5	49	19.78	19.86	19.83				
10	256QAM	50	0	19.98	19.95	19.98				
Channel										
Frequency [MHz]										
5	QPSK	1	0	23.03	23.09	22.99				
5	QPSK	1	12	23.04	22.85	22.87	24.2	0		
5	QPSK	1	24	22.97	22.87	22.87				
5	QPSK	12	0	22.98	22.95	22.89				
5	QPSK	12	7	22.91	23.02	22.94	24.2	0		
5	QPSK	12	14	22.92	23.05	22.93				
5	QPSK	25	0	22.88	23.02	22.89				
5	16QAM	1	0	23.01	22.95	22.91				
5	16QAM	1	12	23.06	22.96	22.91	24.2	0		
5	16QAM	1	24	22.96	22.90	22.90				
5	16QAM	12	0	22.98	22.41	22.39				
5	16QAM	12	7	22.92	22.54	22.28	23.7	0.5		
5	16QAM	12	13	22.97	22.58	22.44				
5	16QAM	1	12	22.31	22.88	22.44				
5	16QAM	1	24	22.31	22.85	22.39	23.7	0.5		
5	16QAM	12	0	21.45	21.96	21.65				
5	16QAM	12	7	21.24	21.44	21.28	22.7	1.5		
5	16QAM	12	13	21.26	21.51	21.37				
5	256QAM	1	0	19.36	19.42	19.43				
5	256QAM	1	0	19.94	19.96	19.99	20.7	3.5		
5	256QAM	1	12	19.72	19.81	19.85				
5	256QAM	1	24	19.84	19.87	19.75				
5	256QAM	12	0	19.87	19.73	19.76				
5	256QAM	12	7	19.69	19.85	19.87	20.7	3.5		
5	256QAM	12	13	19.66	19.73	19.72				
5	256QAM	25	0	19.79	19.93	19.77				
Channel										
Frequency [MHz]										
3	QPSK	1	0	23.08	23.04	22.99				
3	QPSK	1	8	22.99	22.88	22.81	24.2	0		
3	QPSK	1	16	22.94	22.84	22.84				
3	QPSK	8	0	23.00	23.01	22.84				
3	QPSK	8	4	22.88	23.02	22.87	24.2	0		
3	QPSK	8	12	22.77	23.06	22.78				
3	QPSK	15	0	22.93	23.02	22.85				
3	16QAM	1	0	22.99	22.93	22.82				
3	16QAM	1	8	22.93	22.87	22.87	24.2	0		
3	16QAM	1	16	22.94	22.84	22.80				
3	16QAM	8	0	22.36	22.46	22.41				
3	16QAM	8	4	22.31	22.54	22.38	23.7	0.5		
3	16QAM	8	7	22.42	22.50	22.33				
3	16QAM	15	0	22.33	22.45	22.50				
3	16QAM	1	0	22.28	22.39	22.49				
3	16QAM	1	8	22.24	22.74	22.38	23.7	0.5		
3	16QAM	1	16	22.34	22.27	22.38				
3	16QAM	8	0	21.33	21.41	21.28				
3	16QAM	8	4	21.33	21.41	21.28	22.7	1.5		
3	16QAM	8	7	21.28	21.48	21.31				
3	16QAM	15	0	21.29	21.44	21.48				
3	256QAM	1	0	19.89	19.95	19.81				
3	256QAM	1	8	19.74	19.94	19.87	20.7	3.5		
3	256QAM	1	16	19.81	19.84	19.75				
3	256QAM	8	0	19.72	19.78	19.73				
3	256QAM	8	4	19.71	19.77	19.65	20.7	3.5		
3	256QAM	8	7	19.67	19.78	19.75				
3	256QAM	15	0	19.82	19.90	19.84				
Channel										
Frequency [MHz]										
1.4	QPSK	1	0	23.09	23.13	22.99				
1.4	QPSK	1	3	22.96	22.82	22.82				
1.4	QPSK	1	5	23.01	22.84	22.81	24.2	0		
1.4	QPSK	3	0	22.83	23.03	22.81				
1.4	QPSK	3	1	22.91	23.03	22.84				
1.4	QPSK	3	3	22.79	23.03	22.84				
1.4	QPSK	6	0	22.81	22.93	22.89	24.2	0		
1.4	16QAM	1	0	23.06	22.98	22.87				
1.4	16QAM	1	3	22.99	22.90	22.79				
1.4	16QAM	1	5	23.02	22.86	22.89	24.2	0		
1.4	16QAM	3	0	23.02	22.94	22.82				
1.4	16QAM	3	1	23.02	22.94	22.81				
1.4	16QAM	3	3	23.05	22.90	22.93				
1.4	16QAM	6	0	22.32	22.48	22.46	23.7	0.5		
1.4	16QAM	6	1	22.23	22.22	22.45				
1.4	16QAM	1	3	22.25	22.69	22.38				
1.4	16QAM	1	5	22.34	22.69	22.47	23.7	0.5		
1.4	16QAM	3	0	22.20	22.23	22.45				
1.4	16QAM	3	1	22.30	22.70	22.40				
1.4	16QAM	3	3	22.32	22.58	22.48				
1.4	16QAM	6	0	21.26	21.47	21.48	22.7	1.5		
1.4	256QAM	1	0	19.89	19.89	19.84				
1.4	256QAM	1	3	19.77	19.91	19.84	20.7	3.5		
1.4	256QAM	1	5	19.91	19.92	19.77				
1.4	256QAM	3	0	19.70	19.73	19.72				
1.4	256QAM	3	1	19.86	19.81	19.74				
1.4	256QAM	3	3	19.74	19.74	19.75				
1.4	256QAM	6	0	19.77	19.87	19.83	20.7	3.5		

Band 5_Ant 1										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Power 20460	Power Mids 20520	Power High Ch. Power 20600	Tune-up init (dBm)	MPR (dB)		
Channel										
Frequency [MHz]										
10	QPSK	1	0	21.05	21.21	21.07				
10	QPSK	1	25	21.09	21.12	21.18	22.2	0		
10	QPSK	1	49	21.14	20.98	21.06				
10	QPSK	25	0	21.07	21.19	21.18				
10	QPSK	25	12	21.03	21.12	21.15	22.2	0		
10	QPSK	25	25	21.07	21.11	21.07				
10	QPSK	50	0	21.12	21.17	21.07				
10	16QAM	1	0	21.03	21.14	21.09				
10	16QAM	1	25	21.03	21.14	21.09	22.2	0		
10	16QAM	1	49	21.05	21.11	21.11				
10	16QAM	25	0	21.13	21.17	21.03				
10	16QAM	25	12	21.08	21.12	21.11	22.2	0		
10	16QAM	25	25	21.11	21.12	21.11				
10	16QAM	50	0	21.11	21.14	21.15				
10	16QAM	50	25	21.07	21.10	21.09	22.2	0		
10	16QAM	1	49	21.05	21.18	20.99	22.2	0		
10	16QAM	1	49	21.10	21.14	21.01				
10	16QAM	25	0	21.10	21.10	21.09				
10	16QAM	25	12	21.13	21.09	21.20	22.2	0		
10	16QAM	25	25	21.13	21.10	21.10				
10	256QAM	1	0	20.10	20.15	20.04				
10	256QAM	1	25	19.99	19.99	19.91	20.7	1.5		
10	256QAM	1	49	19.91	19.99	19.93				
10	256QAM	25	0	19.78	19.89	19.89				
10	256QAM	25	12	19.88	20.01	19.89	20.7	1.5		
10	256QAM	25	25	19.74	19.95	19.81				
10	256QAM	50	0	19.83	19.88	19.77				
Channel										
Frequency [MHz]										
5	QPSK	1	0	21.01	21.18	21.04				
5	QPSK	1	12	20.99	21.04	21.08	22.2	0		
5	QPSK	1	24	21.03	21.04	21.04				
5	QPSK	12	0	21.02	21.08	21.12				
5	QPSK	12	7	20.93	21.03	21.10	22.2	0		
5	QPSK	12	14	20.95	21.01	21.09				
5	QPSK	25	0	21.10	21.09	21.01				
5	16QAM	1	0	20.93	21.02	21.03				
5	16QAM	1	12	20.93	21.07	21.08	22.2	0		
5	16QAM	1	24	21.10	21.05	20.92				
5	16QAM	12	0	21.09	21.10	21.06	22.2	0		
5	16QAM	12	19	21.09	21.10	21.06				
5	16QAM	25	0	20.98	21.01	21.13				
5	16QAM	25	12	21.04	21.10	20.91	22.2	0		
5	16QAM	25	24	21.04	21.10	20.91				
5	256QAM	1	0	21.02	21.03	21.17	22.2	0		
5	256QAM	1	12	21.03	21.06	21.00				
5	256QAM	1	24	20.91	20.13	19.98	20.7	1.5		
5	256QAM	12	0	20.01	20.13	19.98				
5	256QAM	12	19	19.95	19.93	19.89				
5	256QAM	12	24	19.95	19.93	19.89	20.7	1.5		
5	256QAM	25	0	19.75	19.76	19.75				
5	256QAM	25	7	19.75	19.89	19.78	20.7	1.5		
5	256QAM	25	14	19.85	19.81	19.75				
5	256QAM	25	0	19.73	19.86	19.75				
Channel										
Frequency [MHz]										
3	QPSK	1	0	21.03	21.19	21.03				
3	QPSK	1	8	21.02	21.05	21.10	22.2	0		
3	QPSK	1	16	21.03	20.96	20.98				
3	QPSK	8	0	20.91	21.08	21.08				
3	QPSK	8	4	20.93	21.10	21.03	22.2	0		
3	QPSK	8	7	20.99	21.03	21.04				
3	QPSK	15	0	21.03	21.09	21.02				
3	16QAM	1	0	20.98	21.08	21.07				
3	16QAM	1	8	20.96	21.10	21.02	22.2	0		
3	16QAM	1	16	20.96	20.98	21.02				
3	16QAM	8	0	21.01	21.09	21.01				
3	16QAM	8	4	20.99	21.10	21.03	22.2	0		
3	16QAM	8	7	21.01	21.09	21.05				
3	16QAM	15	0	21.05	21.04	21.09				
3	16QAM	15	8	21.06	21.09	21.05	22.2	0		
3	16QAM	1	8	21.06	21.15	20.91				
3	16QAM	1	14	21.03	21.11	21.03				
3	16QAM	8	0	21.01	21.12	21.09	22.2	0		
3	16QAM	8	8	21.03	21.08	21.16				
3	256QAM	1	0	21.00	21.04	21.06				
3	256QAM	1	8	20.97	21.01	21.01	20.7	1.5		
3	256QAM	1	16	20.98	20.97	20.97				
3	256QAM	8	0	19.97	20.11	19.91				
3	256QAM	8	4	19.98	19.97	19.79	20.7	1.5		
3	256QAM	8	7	19.98	19.97	19.97				
3	256QAM	15	0	19.73	19.85	19.75	20.7	1.5		
3	256QAM	15	8	19.73	19.85	19.75				
Channel										
Frequency [MHz]										
1.4	QPSK	1	0	20.97	21.14	21.03				
1.4	QPSK	1	3	21.01	21.00	21.08	22.2	0		
1.4	QPSK	1	5	21.11	20.89	20.98				
1.4	QPSK	20	0	20.98	21.07	21.17	22.2	0		
1.4	QPSK	3	1	20.93	21.15	21.02				
1.4	QPSK	3	3	21.01	21.03	21.02	22.2	0		
1.4	16QAM	1	0	20.94	21.00	21.04				
1.4	16QAM	1	3	20.96	21.03	20.98	22.2	0		
1.4	16QAM	3	0	20.90	21.09	21.01				
1.4	16QAM	3	1	21.00	21.06	21.06				
1.4	16QAM	3	3	21.03	21.04	21.07	22.2	0		
1.4	16QAM	6	0	21.07	21.12	21.04	22.2	0		
1.4	16QAM	6	3	20.96	21.09	20.99				
1.4	16QAM	6	5	21.00	21.08	21.14	20.7	1.5		
1.4	16QAM	3	5	21.02	21.08	20.95	22.2	0		
1.4	16QAM	6	0	21.03	21.07	21.02				
1.4	16QAM	6	3	21.02	21.09	21.08	22.2	0		
1.4	16QAM	3	3	21.00	21.00	21.01				
1.4	16QAM	6	0	21.02	21.03	21.08	22.2	0		
1.4	256QAM	1	3	19.86	19.81	19.86	20.7	1.5		
1.4	256QAM	1	5	19.87	19.83	19.85				
1.4	256QAM	20	0	19.78	19.82	19.82	20.7	1.5		
1.4	256QAM	3	1	19.84	19.87	19.83				
1.4	256QAM	3	3	19.71	19.81	19.82	20.7	1.5		
1.4	256QAM	6	0	19.77	19.81	19.82				



Band 7_Ant 2																	
BW (MHz)	Modulation	RIS Size	RIS Offset	Power Low Ch. (mW)	Power Middle Ch. (mW)	Power High Ch. (mW)	Time-up (min)	MPR (dB)									
Channel																	
20690 21100 21350																	
Frequency (MHz)																	
20 QPSK 1	0	18.58	18.65	18.51	19.5	0											
20 QPSK 1	49	18.36	18.19	17.84													
20 QPSK 1	99	18.41	18.49	17.98													
20 QPSK 50	24	18.33	18.58	17.50													
20 QPSK 50	24	18.37	18.18	17.95													
20 QPSK 100	0	18.42	18.43	18.03	19.5	0											
20 QPSK 100	0	18.31	18.44	17.97													
20 QPSK 1	0	18.43	18.33	18.14													
20 QPSK 1	0	18.21	18.48	17.8													
20 16QAM 1	0	18.42	18.33	18.16	19.5	0											
20 16QAM 50	0	18.49	18.48	18.24													
20 16QAM 100	0	18.34	18.31	18.20													
20 16QAM 50	50	18.6	18.42	18.33													
20 16QAM 100	0	18.5	18.46	18.24													
20 16QAM 1	0	18.52	18.44	18.24	19.5	0											
20 16QAM 1	49	18.58	18.6	18.34													
20 16QAM 1	99	18.61	18.45	18.36													
20 16QAM 100	0	18.34	18.31	18.20													
20 16QAM 50	24	18.42	18.34	18.21													
20 16QAM 50	50	18.54	18.52	18.3	19.5	0											
20 256QAM 1	0	18.13	18.38	18.12													
20 256QAM 1	49	18.19	18.35	18.26													
20 256QAM 1	99	18.25	18.36	18.30													
20 256QAM 50	0	18.11	18.30	18.15													
20 256QAM 50	24	18.17	18.41	18.19	19.5	0											
20 256QAM 50	50	18.33	18.33	18.18													
20 256QAM 100	0	18.20	18.22	18.24													
Channel																	
20695 21100 21375																	
Frequency (MHz)																	
15 QPSK 1	0	18.52	18.63	18.41	19.5	0											
15 QPSK 1	37	18.28	18.1	17.75													
15 16QAM 1	0	18.52	18.42	18.16													
15 QPSK 36	0	18.31	18.43	17.82													
15 QPSK 36	20	18.34	18.12	17.89													
15 QPSK 1	0	18.31	18.32	17.86	19.5	0											
15 QPSK 75	0	18.19	18.33	17.94													
15 16QAM 1	0	18.41	18.22	18.1													
15 16QAM 1	0	18.59	18.41	18.12													
15 16QAM 1	74	18.16	18.30	17.71													
15 16QAM 36	0	18.47	18.41	18.16	19.5	0											
15 16QAM 36	20	18.41	18.4	18.14													
15 16QAM 36	39	18.48	18.33	18.25													
15 16QAM 75	0	18.4	18.4	18.19													
15 16QAM 1	0	18.42	18.4	18.26													
15 16QAM 1	37	18.52	18.5	18.22	19.5	0											
15 16QAM 1	74	18.52	18.41	18.34													
15 16QAM 36	20	18.31	18.25	18.08													
15 16QAM 36	20	18.37	18.25	18.1													
15 16QAM 36	39	18.51	18.24	18.25													
15 256QAM 1	0	18.10	18.31	18.07	19.5	0											
15 256QAM 1	37	18.17	18.31	18.16													
15 256QAM 1	74	18.20	18.23	18.15													
15 256QAM 36	0	18.07	18.21	18.09													
15 256QAM 36	20	18.07	18.30	18.16													
15 256QAM 36	39	18.23	18.1	18.09	19.5	0											
15 256QAM 75	0	18.16	18.22	18.14													
Channel																	
20695 21100 21400																	
Frequency (MHz)																	
10 QPSK 1	0	18.43	18.6	18.62	19.5	0											
10 QPSK 1	25	18.38	18.59	18.48													
10 QPSK 1	24	18.3	18.4	17.92													
10 QPSK 25	0	18.31	18.51	17.84													
10 QPSK 25	12	18.25	18.12	17.83													
10 QPSK 1	0	18.31	18.41	17.92	19.5	0											
10 QPSK 50	0	18.28	18.39	17.89													
10 16QAM 1	0	18.41	18.29	18.1													
10 16QAM 1	0	18.19	18.37	17.7													
10 16QAM 1	49	18.21	18.43	17.7													
10 16QAM 25	0	18.47	18.39	18.15	19.5	0											
10 16QAM 25	12	18.48	18.33	18.22													
10 16QAM 25	25	18.57	18.39	18.27													
10 16QAM 50	0	18.45	18.41	18.13													
10 16QAM 1	0	18.49	18.45	18.26													
10 16QAM 1	25	18.46	18.57	18.25	19.5	0											
10 16QAM 1	49	18.58	18.33	18.26													
10 16QAM 25	0	18.33	18.34	18.15													
10 16QAM 25	12	18.34	18.29	18.09													
10 16QAM 25	25	18.42	18.23	18.25													
10 256QAM 1	0	18.24	18.27	18.16	19.5	0											
10 256QAM 1	0	18.10	18.30	18.04													
10 256QAM 1	25	18.16	18.33	18.16													
10 256QAM 50	0	18.07	18.26	18.11													
10 256QAM 50	25	18.10	18.36	18.10													
10 256QAM 25	25	18.28	18.35	18.10	19.5	0											
10 256QAM 50	0	18.13	18.29	18.13													
Channel																	
20695 21100 21425																	
Frequency (MHz)																	
5 QPSK 1	0	18.47	18.6	18.62	19.5	0											
5 QPSK 1	12	18.35	18.55	18.56													
5 QPSK 1	24	18.35	18.55	18.44													
5 QPSK 12	0	18.29	18.56	18.45													
5 QPSK 12	7	18.35	18.56	18.54													
5 QPSK 12	13	18.52	18.62	18.45	19.5	0											
5 QPSK 25	0	18.38	18.56	18.5													
5 16QAM 1	0	18.29	18.6	18.5													
5 16QAM 1	0	18.41	18.56	18.54													
5 16QAM 1	0	18.37	18.53	18.44													
5 16QAM 1	49	18.3	18.5	18.57	19.5	0											
5 16QAM 25	0																



Band 66_Ant 0														
BW (MHz)	Modulation	RB Size	RB Offset	Power Ch./Freq.	Power Ch./Freq.	Power Ch./Freq.	Tune-up freq (dBm)	MPR (dB)						
Channel														
Frequency (MHz)														
20	QPSK	1	0	21.61	21.96	21.73			23	0				
20	QPSK	1	49	21.73	21.76	21.71								
20	QPSK	50	0	20.82	20.88	20.85								
20	QPSK	50	24	20.75	20.89	20.81								
20	QPSK	100	0	20.77	20.83	20.78								
20	16QAM	1	0	20.88	21.21	21.13			22	1				
20	16QAM	1	49	20.87	21.02									
20	16QAM	1	99	21.09	21.12	21.01								
20	16QAM	50	24	19.63	19.86	19.83								
20	16QAM	50	50	19.77	19.91	19.73								
20	16QAM	100	0	19.64	19.86	19.85			21	2				
20	16QAM	1	0	19.85	20.16	20.16								
20	16QAM	1	49	19.84	20.23	20								
20	16QAM	50	0	19.87	19.91	19.77								
20	16QAM	50	24	19.84	19.85	19.77								
20	256QAM	1	0	18.59	17.05	16.97			18	5				
20	256QAM	1	49	17.83	17.05	17.07								
20	256QAM	1	99	17.51	17.13	17.08								
20	256QAM	50	0	18.85	16.92	16.86								
20	256QAM	50	24	18.84	16.90	16.85								
20	256QAM	100	0	18.85	16.91	16.86			18	5				
20	256QAM	100	50	18.85	16.92	16.86								
Channel														
Frequency (MHz)														
15	QPSK	1	0	21.5	21.93	21.63			23	0				
15	QPSK	1	37	21.57	21.89	21.69								
15	QPSK	1	74	21.62	21.72	21.72								
15	QPSK	36	0	20.79	20.82	20.82								
15	QPSK	36	20	20.71	20.88	20.69								
15	QPSK	75	0	20.85	20.83	20.75			22	1				
15	QPSK	75	0	20.81	21.09	21.11								
15	16QAM	1	0	20.81	21.09	21.11								
15	16QAM	1	37	21.07	21.08	20.95								
15	16QAM	1	74	21.11	21.11	20.96								
15	16QAM	36	0	19.67	19.77	19.76			21	2				
15	16QAM	36	20	19.62	19.86	19.82								
15	16QAM	36	39	19.68	19.9	19.74								
15	16QAM	75	0	19.65	19.72	19.54								
15	16QAM	75	20	19.73	20.1	19.73								
15	64QAM	1	37	19.71	20.24	19.87			21	2				
15	64QAM	1	74	19.8	19.71	19.68								
15	64QAM	36	0	18.63	18.71	18.77								
15	64QAM	36	20	18.61	18.77	18.59								
15	64QAM	36	39	18.58	18.77	18.56								
15	256QAM	1	37	16.96	17.12	17.15			18	5				
15	256QAM	1	74	16.98	17.16	17.02								
15	256QAM	36	0	17.04	17.16	16.86								
15	256QAM	36	20	16.86	16.91	16.83								
15	256QAM	36	39	16.81	16.93	16.76								
15	256QAM	75	0	16.81	16.92	16.73			18	5				
15	256QAM	75	20	16.8	16.9	16.76								
15	256QAM	75	39	16.8	16.92	16.76								
Channel														
Frequency (MHz)														
10	QPSK	1	0	21.55	21.93	21.68			23	0				
10	QPSK	1	25	21.51	21.79	21.74								
10	QPSK	1	49	21.58	21.77	21.67								
10	QPSK	25	0	20.83	20.84	20.77								
10	QPSK	25	12	20.77	20.8	20.82								
10	QPSK	75	0	20.79	20.81	20.76			22	1				
10	QPSK	75	0	20.8	20.93	20.87								
10	16QAM	1	0	20.87	21.09	21.15								
10	16QAM	1	25	20.92	21.01	21.02								
10	16QAM	1	49	21.02	21.08	20.97								
10	16QAM	25	0	19.73	19.85	19.77			21	2				
10	16QAM	25	0	19.68	19.86	19.81								
10	16QAM	25	12	19.72	19.81	19.8								
10	16QAM	25	25	19.72	19.81	19.8								
10	16QAM	25	39	19.65	19.76	19.53								
10	64QAM	1	25	19.76	20.25	19.87			21	2				
10	64QAM	1	49	19.8	19.84	19.73								
10	64QAM	25	0	18.67	18.75	18.75								
10	64QAM	25	12	18.52	18.72	18.65								
10	64QAM	25	25	18.68	18.81	18.65								
10	256QAM	1	25	16.84	16.84	16.84			18	5				
10	256QAM	1	49	16.87	16.9	16.83								
10	256QAM	25	0	17.01	17.05	16.94								
10	256QAM	25	12	16.84	16.92	16.84								
10	256QAM	25	25	16.74	16.94	16.84								
10	256QAM	75	0	16.82	16.92	16.85			18	5				
10	256QAM	75	25	16.82	16.93	16.85								
10	256QAM	75	39	16.83	16.92	16.85								
Channel														
Frequency (MHz)														
5	QPSK	1	0	21.56	21.87	21.65			23	0				
5	QPSK	1	12	21.52	21.81	21.62								
5	QPSK	1	25	21.62	21.75	21.7								
5	QPSK	12	0	20.79	20.83	20.79								
5	QPSK	12	7	20.63	20.88	20.74								
5	QPSK	25	0	20.68	20.85	20.78			22	1				
5	QPSK	25	0	20.65	20.89	20.82								
5	QPSK	25	0	20.67	21.12	21.07								
5	QPSK	25	7	20.68	20.89	20.95								
5	QPSK	25	14	20.66	20.91	20.95								
5	16QAM	1	0	20.74	20.93	21.03			22	1				
5	16QAM	1	12	20.74	20.93	21.03								
5	16QAM	1	25	20.97	21.02	20.97								
5	16QAM	12	0	19.74	19.82	19.74								
5	16QAM	12	13	19.74	19.81	19.74								
5	16QAM	25	0	19.57	19.82	19.74			21	2				
5	16QAM	25	0	19.66	19.83	19.82								
5	16QAM	25	12	19.74	20.13	19.97								
5	64QAM	1	24	18.67	18.71	18.67								
5	64QAM	12	7	18.53	18.83	18.68								
5	64QAM	12	14	18.58	18.82	18.65			20	3				
5	64QAM	12	13	18.68	18.86	18.65								
5	64QAM	25	0	18.55	18.76	18.75								
5	256QAM	1	0	16.99	17.19	16.93								
5	256QAM	1	12	16.99	17.12	16.99								
5	256QAM	12	0	16.73	16.90	16.86			18	5				
5	256QAM	12	7	16.76	16.92	16.87								
5	256QAM	12	14	16.76	16.92	16.87								
5	256QAM	12	13	16.74	17.02	16.96								
5	256QAM	25	0	16.77	16.90	16.79								
Channel														